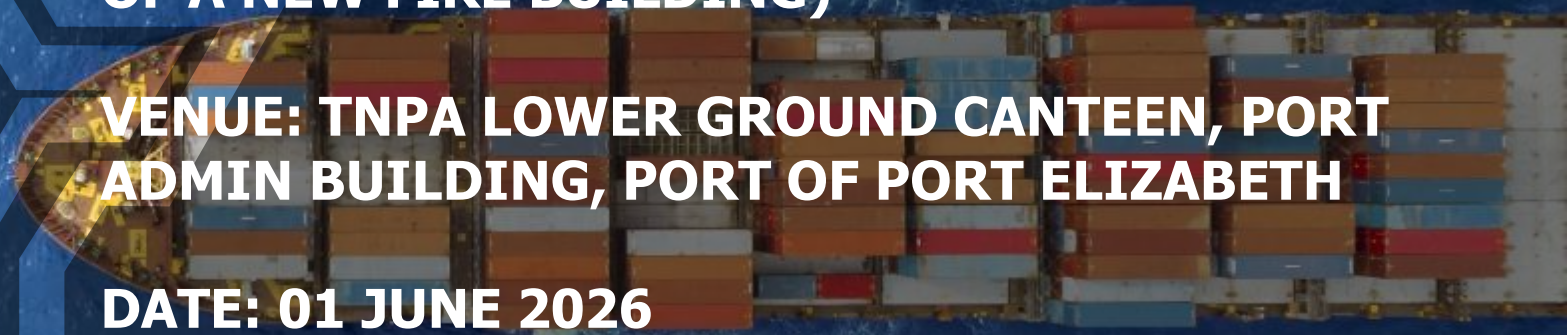
TRANSNET

TENDER NUMBER: TNPA/2026/05/0931/5219/RFP

COMPULSORY CLARIFICATION MEETING FOR: PE NATIONAL FIRE SERVICES INFRASTRUCTURE AND EQUIPMENT UPGRADE PHASE 2A (CONSTRUCTION OF A NEW FIRE BUILDING)



VENUE: TNPA LOWER GROUND CANTEEN, PORT ADMIN BUILDING, PORT OF PORT ELIZABETH

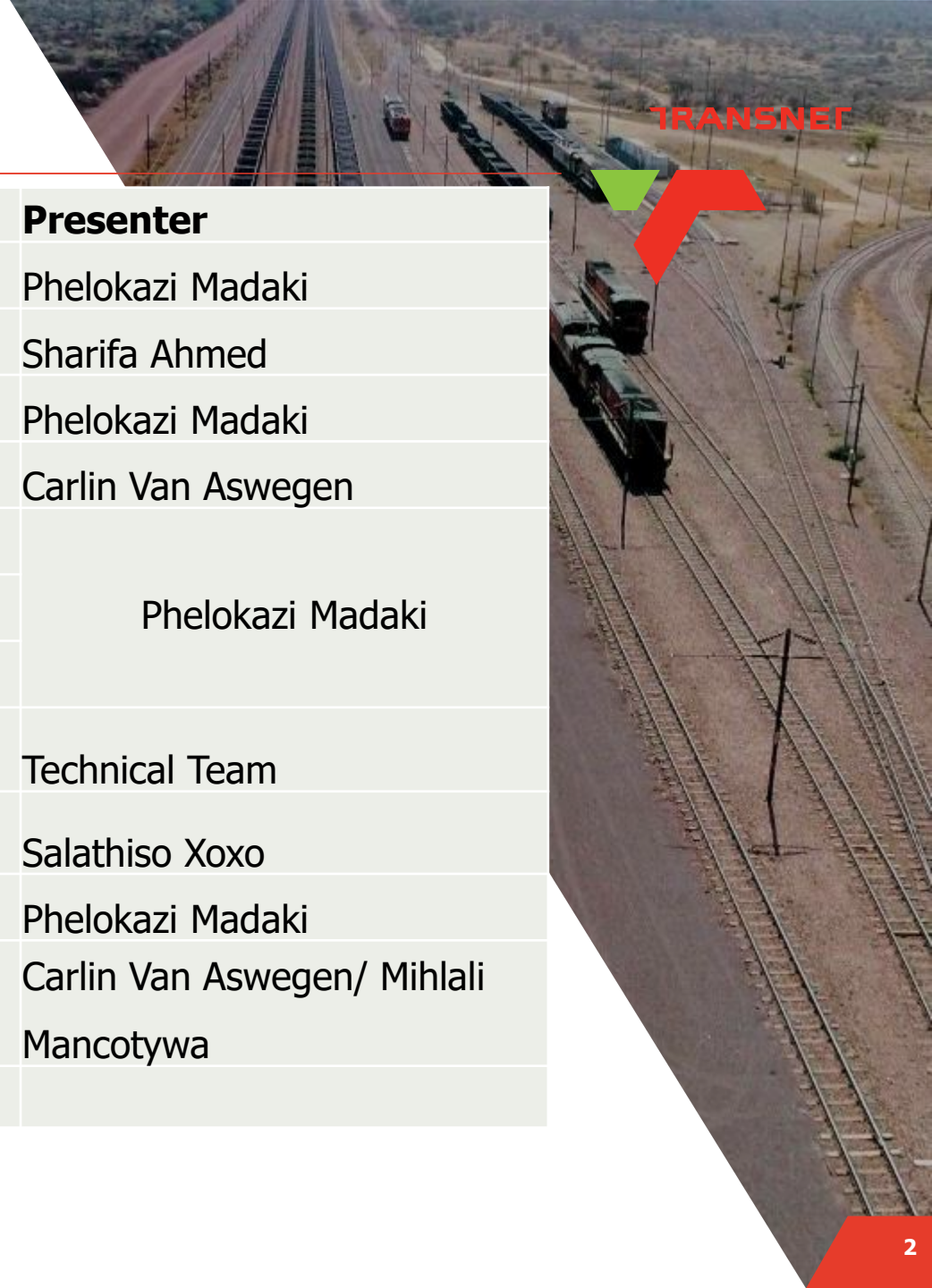
DATE: 01 JUNE 2026

TIME: 10H00

PRESENTED BY: PHELOKAZI MADAKI

AGENDA ITEM

No.	Agenda Item	Presenter
1	Opening and purpose of meeting	Phelokazi Madaki
2	Safety Briefing	Sharifa Ahmed
3	Introductions	Phelokazi Madaki
4	Background and Scope of work	Carlin Van Aswegen
5	Tendering Process	Phelokazi Madaki
5.1	Tender Evaluation Procedure	
5.2	Part T2: Returnable Documents	
6	Technical Evaluation/ Functionality Criteria	Technical Team
7	Specific Goals	Salathiso Xoxo
8.	Part C1: Agreement and Contract Data	Phelokazi Madaki
8.1	Part C2.2: Bill of Quantities	Carlin Van Aswegen/ Mihlali Mancotywa
9	Tender Closing (signing of Certificate of attendance)	



MEETING RULES

- ✓ Please put cellphone on mute during the presentations;
- ✓ Please ensure that you sign the attendance register clearly
- ✓ All questions are to be raised after each presentation.
- ✓ Kindly raise your hand to ask a question
- ✓ TNPA will endeavor to answer all questions in the session and issue the briefing session minutes thereafter.
- ✓ All Questions and Clarification are to be followed-up by email to TNPATenderenquiries3@transnet.net
- ✓ Late comers will be allowed; however, nothing will be repeated for their benefit.
- ✓ Attendees are encouraged to remain for the entire briefing session and site visit as important information relating to the RFP will be presented and the certificate of attendance will only be signed after the meeting.

MEETING PURPOSE AND OBJECTIVE

- ✓ The purpose of this meeting is to clarify the Tendering procedure, scope of work and deliverables of this project.
- ✓ The objective of this meeting is to:
  - Ensure that there is alignment between Transnet project expectations, RFP Tendering procedure, scope of work, deliverables as well as evaluation criteria.
  - Ensure bidders submit comprehensive proposals that will allow Transnet to select best value supplier and delivery of the project successfully.
- ✓ Transnet urges its clients, suppliers and the general public to report any fraud or corruption to **0800 003 056** or transnet@tip-offs.com. Alternatively, send a please call me by dialling ***120*0637867403** on your cellphone

BACKGROUND & SCOPE OF WORKS

Background on Project and Executive Summary

Context

TNPA National Fire Services Infrastructure and Equipment Upgrade Project originated from a study of the existing capabilities of the Fire and Emergency Services of TNPA conducted at the Ports of; Cape Town, Saldanha, Richards Bay, East London, Ngqura and Port Elizabeth. The study was commissioned from the 5th of June 2012 to the 8th of August 2012 by TNPA Specialist: Fire and International code for the Maritime transport of Dangerous Goods (IMDG) then undertaken by the Fire Protection Association of Southern Africa (FPASA). To date the audit findings are still relevant and sufficient because they emphasize the space limitation and response time posed by the current location of the Fire station within the Port of Port Elizabeth.

The need to upgrade the infrastructure of the Fire Services Department at Port of Port Elizabeth arises mainly from the current inadequate operational space, because:

- The current infrastructure does not meet the requirements for proper firefighting, as the current building is too small, and it is shared with other service providers in the port.
- The infrastructure does not cater for the new fire services equipment that will be procured under Phase 2B as part of this project.
- The current infrastructure does not have training facilities
- The current Fire Services buildings does not have; Proper change room facilities, Parking garages for equipment, Controls rooms, Lecture rooms and adequate staff kitchen.
- The building is not centrally located and does not meet the response time throughout the Port.

The project had been divided into 3 phases which are presented as follows:

Phase 1: The procurement of skids unit for the Port of Richards Bay and Saldanha

Phase 2A: This is the infrastructure component of the project where building infrastructure is provided for the Port of Port Elizabeth.

Phase 2B: This phase covers the procurement of equipment i.e. fire engine for the Port of Port Elizabeth.

Background on Project and Executive Summary

Business Challenges

Port Elizabeth Fire Department faces the challenge of having an under equipped and insufficient Fire Services building. The building does not have sufficient space to accommodate the current and future staffing requirements of the Fire Services department. They also require additional facilities in their building such as training facilities, lecture rooms and a dedicated control room. An upgrade and relocation of the Fire Services infrastructure is therefore paramount in ensuring that the Fire Services can provide the necessary services within the Port of Port Elizabeth.

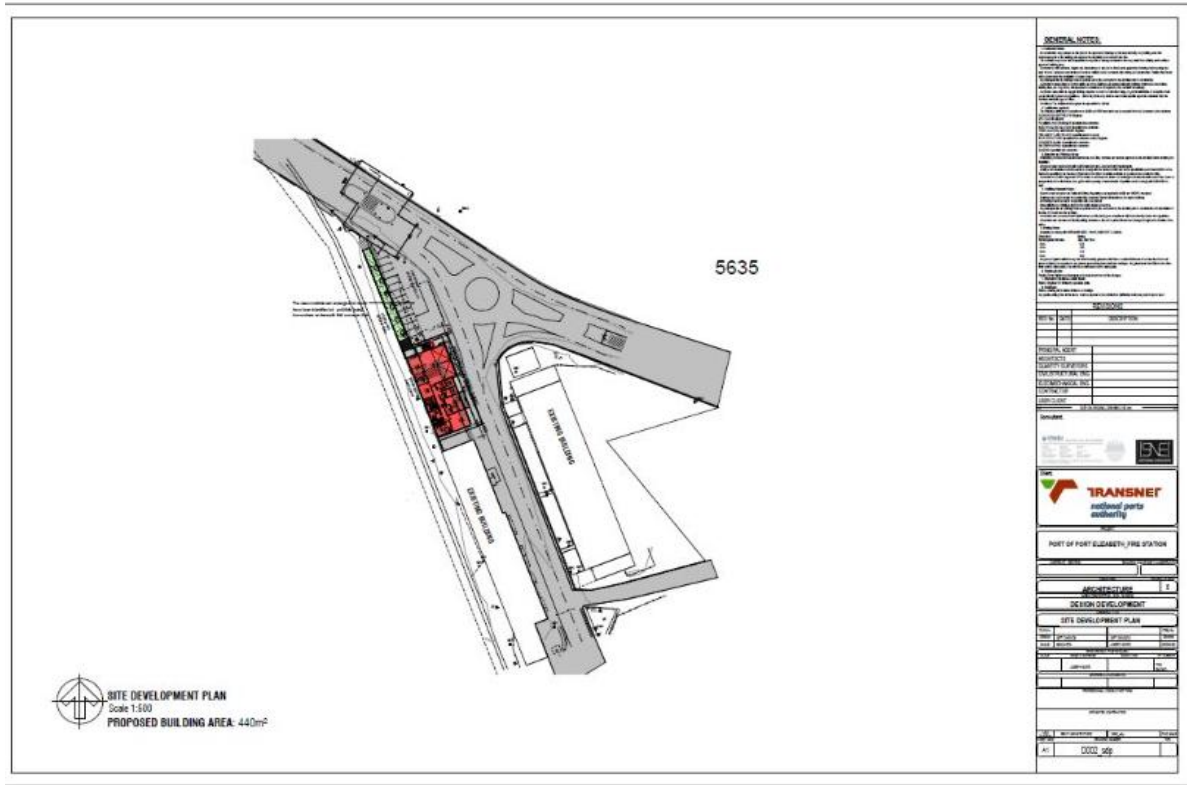
Based on the recommendations of the FPASA study, which are still relevant and the long-term vision of TNPA Fire and Emergency Services, the primary objective of this project is to provide infrastructure to the Fire Services at the Port of Port Elizabeth that will also address concerns raised on non-compliance.

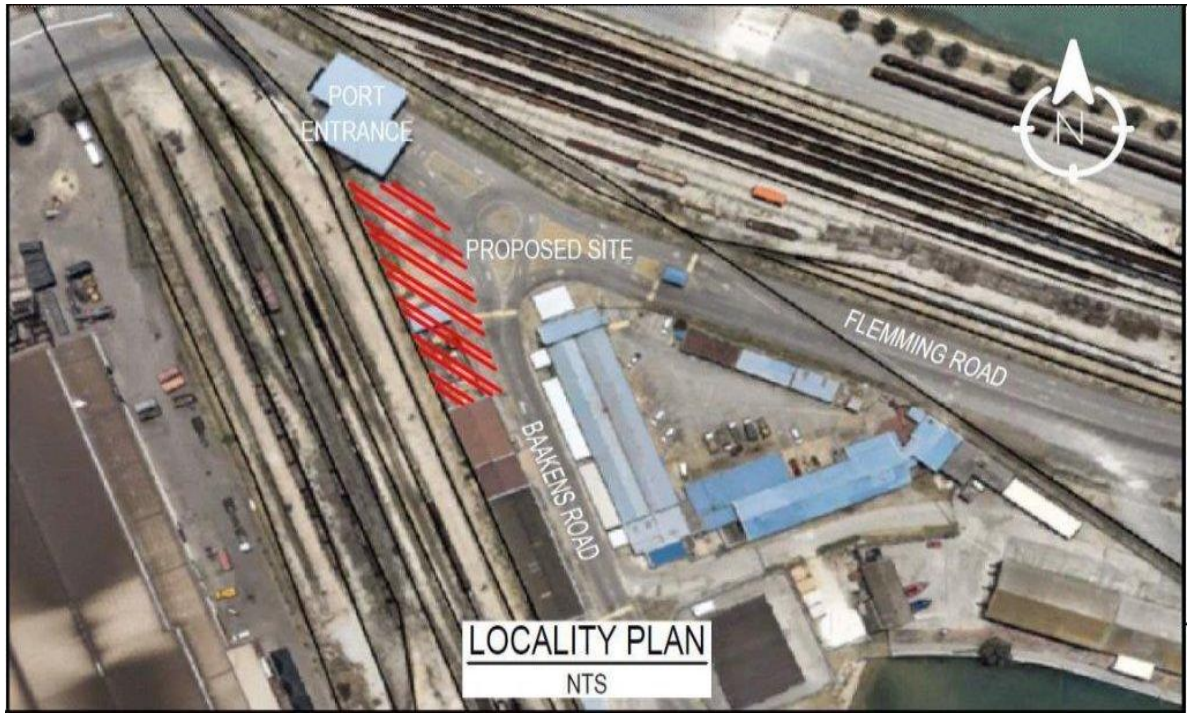
Business Need

The infrastructure upgrade will improve TNPA's safety compliance and abilities. This will promote trust and confidence in TNPA as a service provider and will improve stakeholder's perceptions of the company.

This will provide the Fire Services with a facility to operate from and allow them to effectively and efficiently contain then prevent the escalation of any emergency event until the arrival of the respective Local Authority Emergency Services.

Site Development Plan





Background on Project and Executive Summary

The high-level scope of works for the execution phase of the project is as follows:

Construction Contractor

- Conduct a Bankable Feasibility study review, verification, and certification of building upon completion.
- Provide updated documentation where applicable.
- Prepare contract specific Safety, health and Environmental Plan
- Demarcate area to be excavated.
- Expose and protect existing services and excavate to design depth.
- Construction of Fire station building
- Comply to Construction regulations i.e. Health & Safety and Environmental Management Plan.
- Attend progress meetings and provide progress reports
- Manage construction activities and quality control.
- Certify building works and submit to local authority for approval
- Issue occupation certificate upon completion.
- Provide as-built drawings and construction documentation.
- Prepare and present the project close-out report.

ENGINEERING

4.1 ARCHITECTURAL

4.2 CIVIL

4.3 STRUCTURES

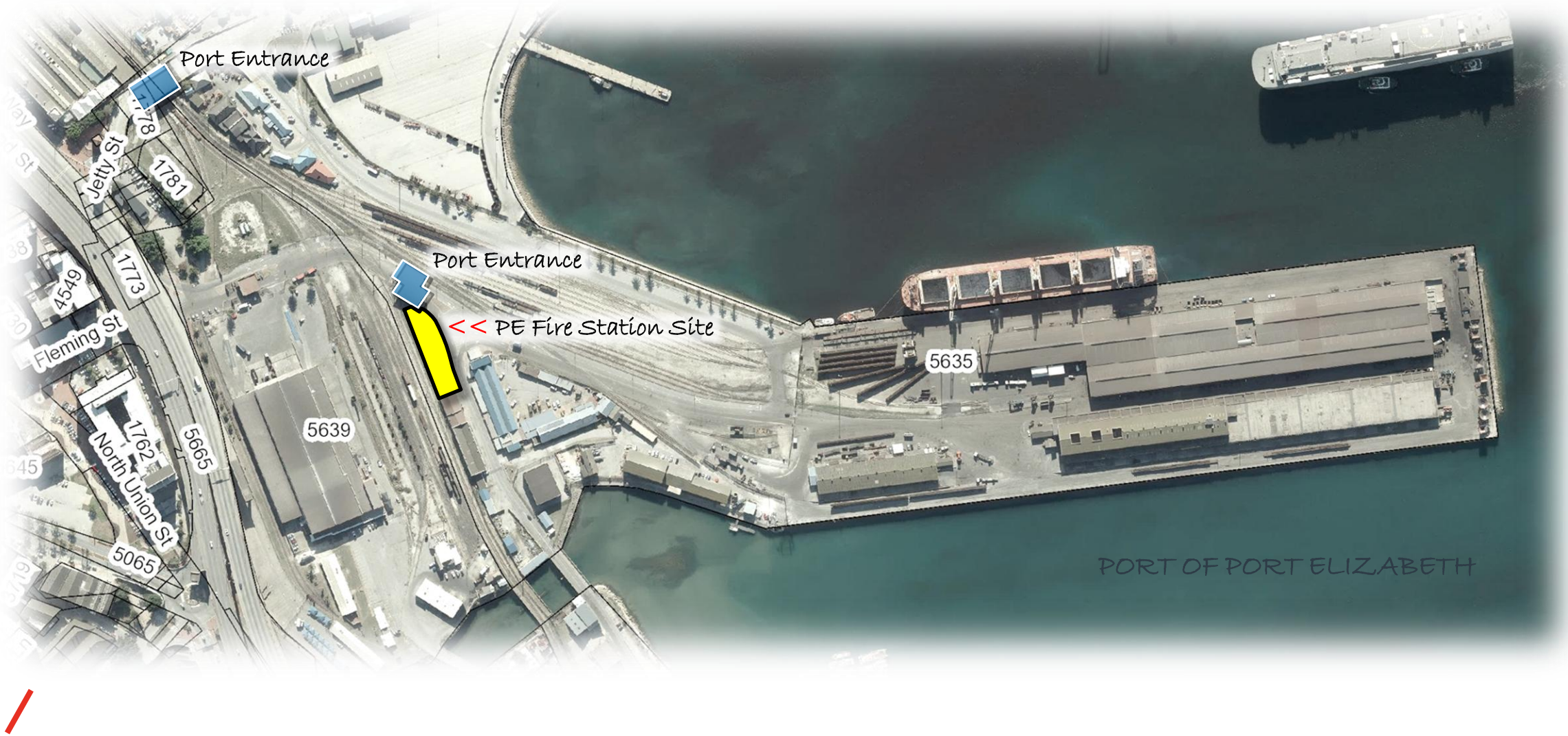
4.4 ELECTRICAL

4.5 MECHANICAL

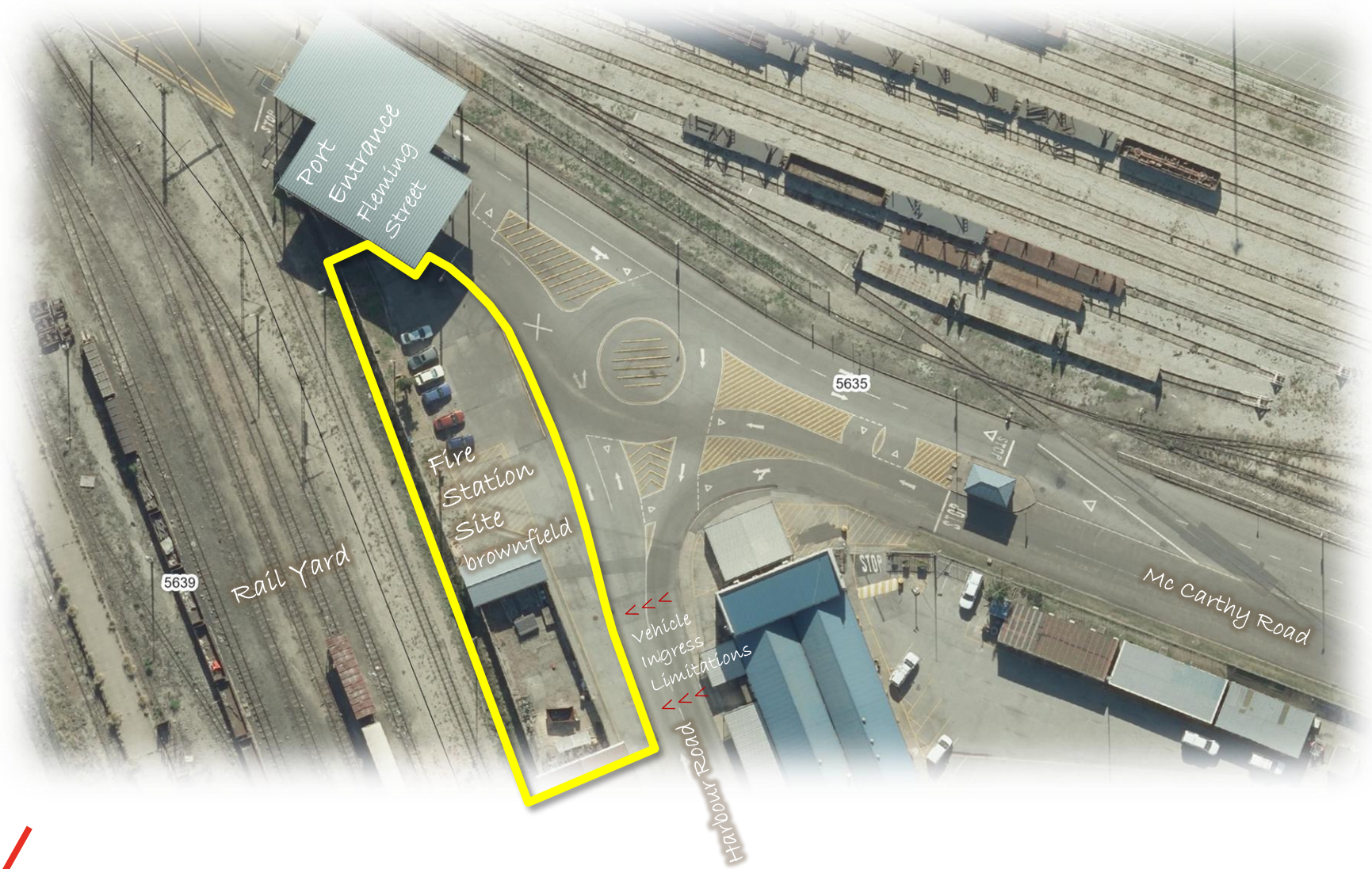
4.6 C&I (ICT)

4.1 Architectural

ARCHITECTURAL – SITE LOCATION



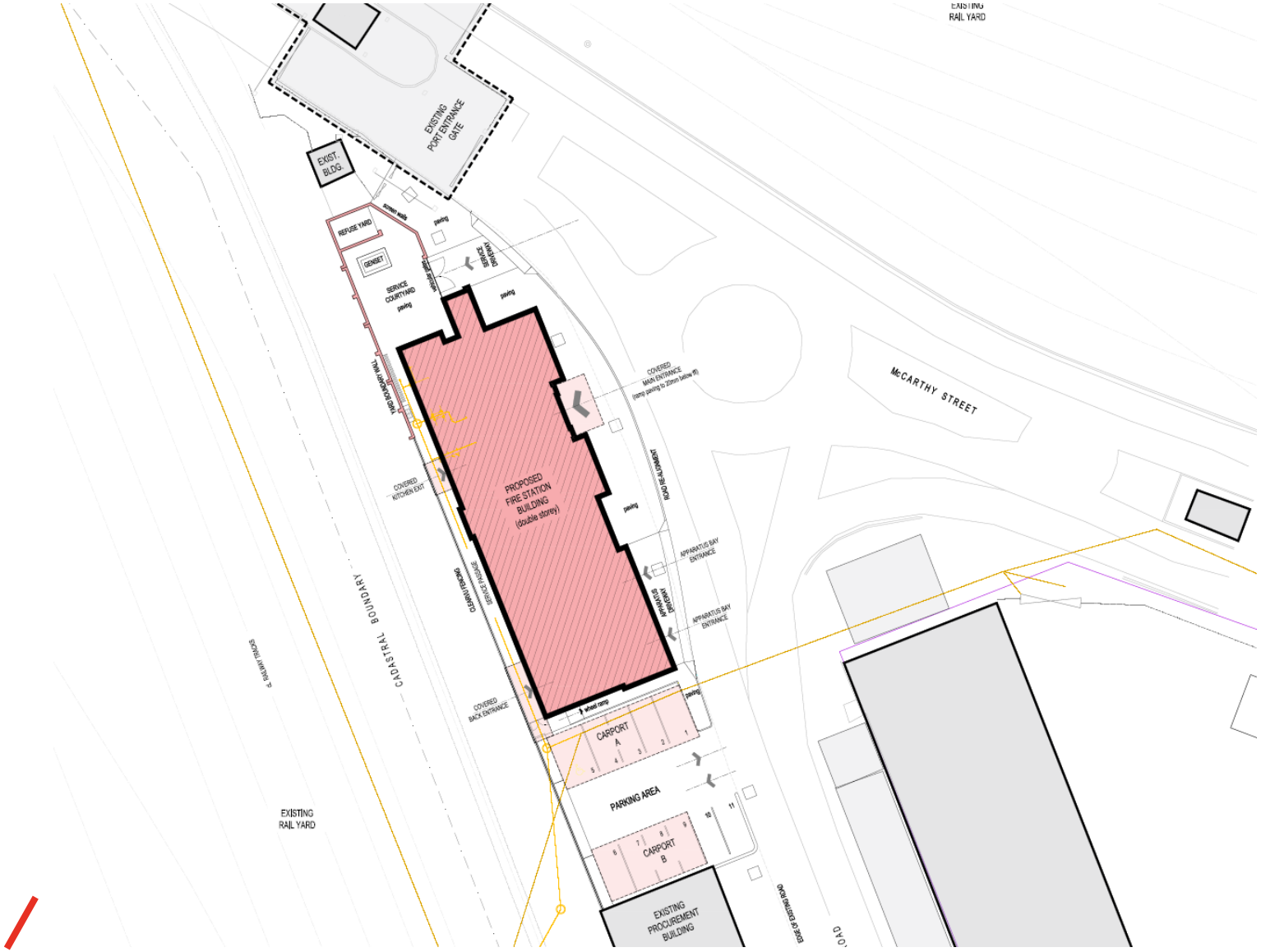
ARCHITECTURAL – THE SITE



Core Requirements:

- Site Clearance
- Site Development
- Services
- **Fire Station Building**
- Parking
- Service Passage & Yard
- Standby Power Supply

ARCHITECTURAL – THE DEVELOPMENT



Area Schedule:

Construction Site: 1400m²

Fire Station Building: 1070m²

Entrance Canopy: 20m²
Ground Floor: 510m²
First Floor: 540m²

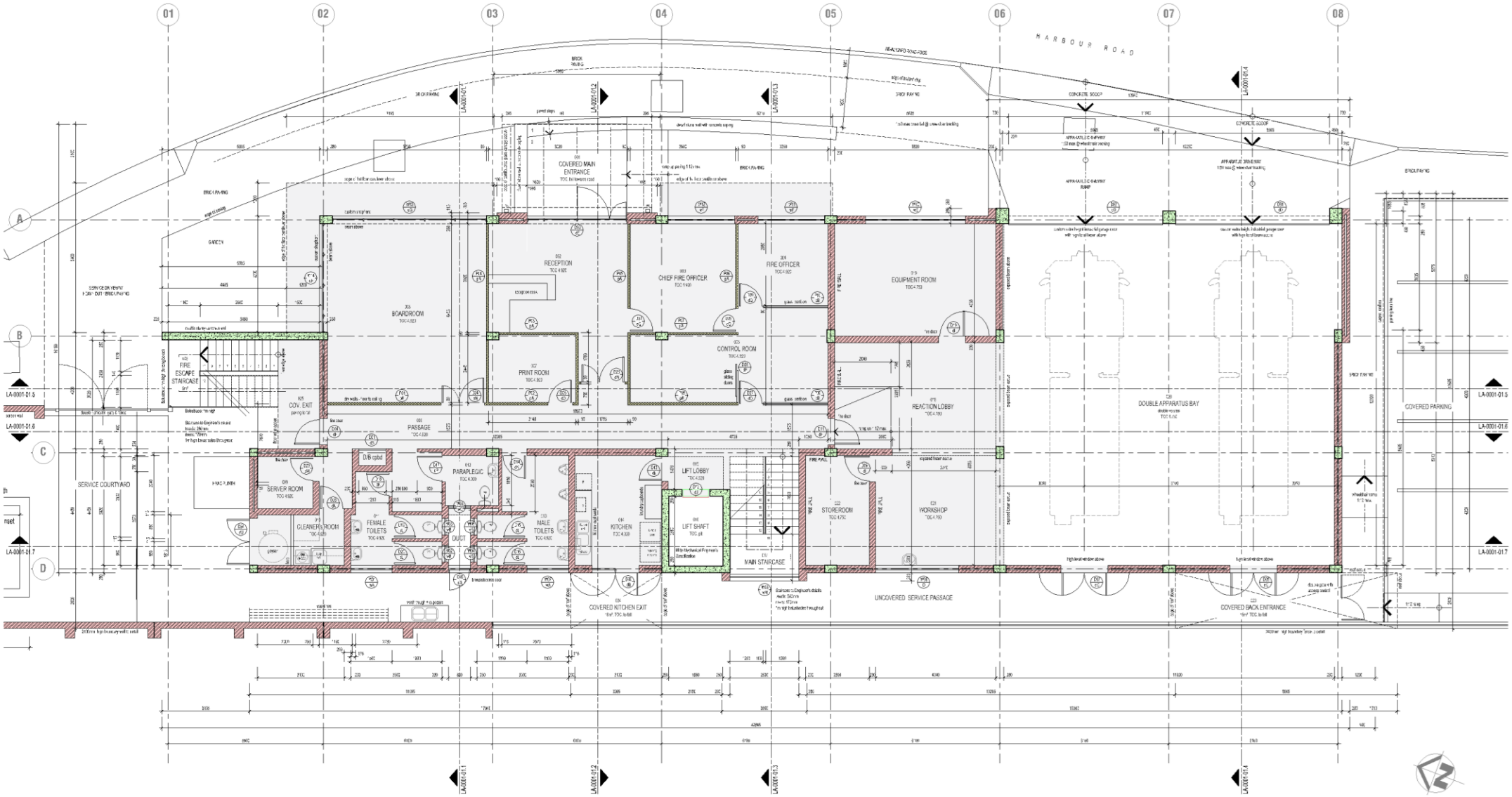
Back Entrance Roof: 15m²

Kitchen Exit Roof: 6m²

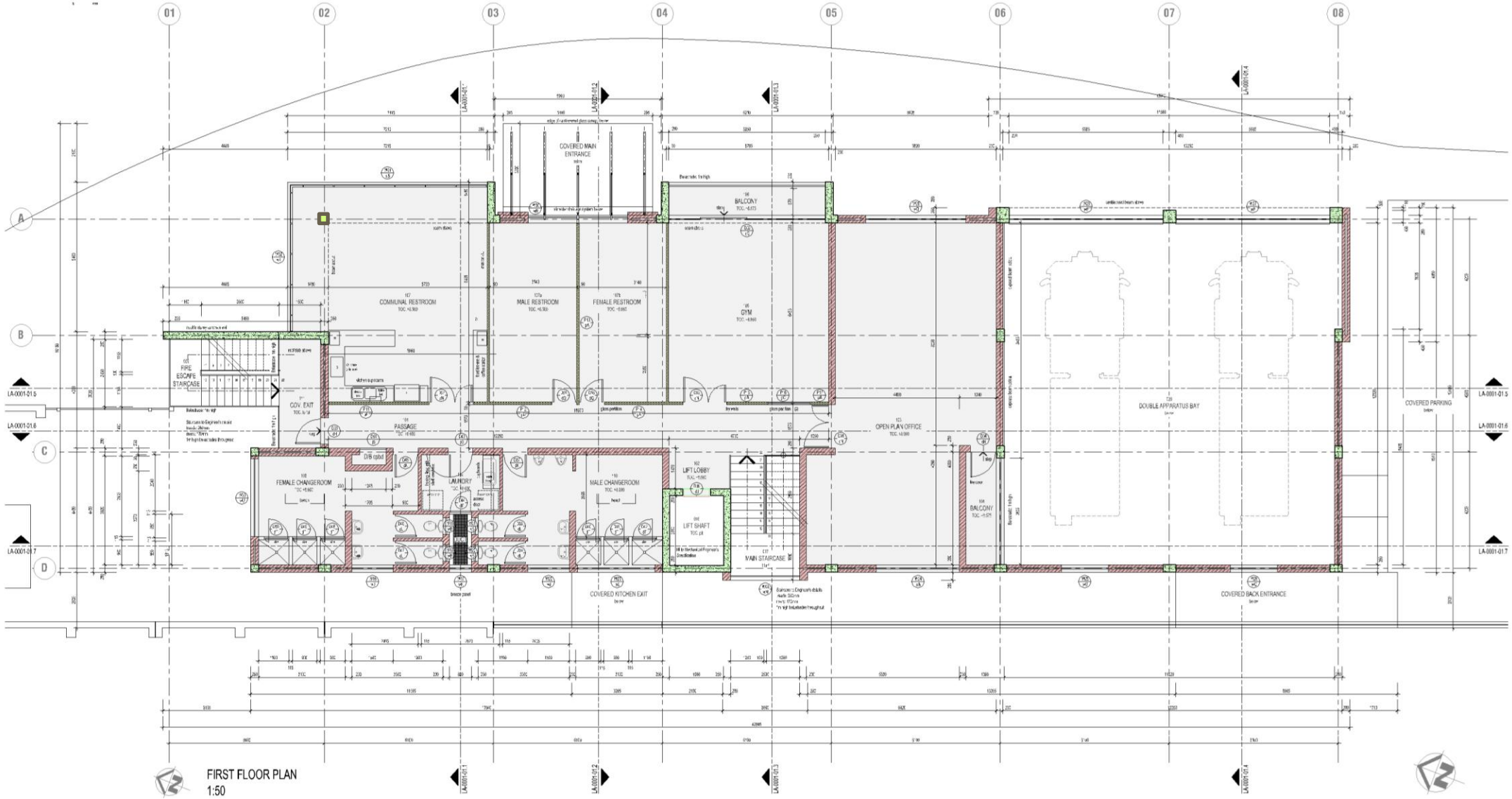
Carports: 140m²

Carport A: 80m²
Carport B: 60m²

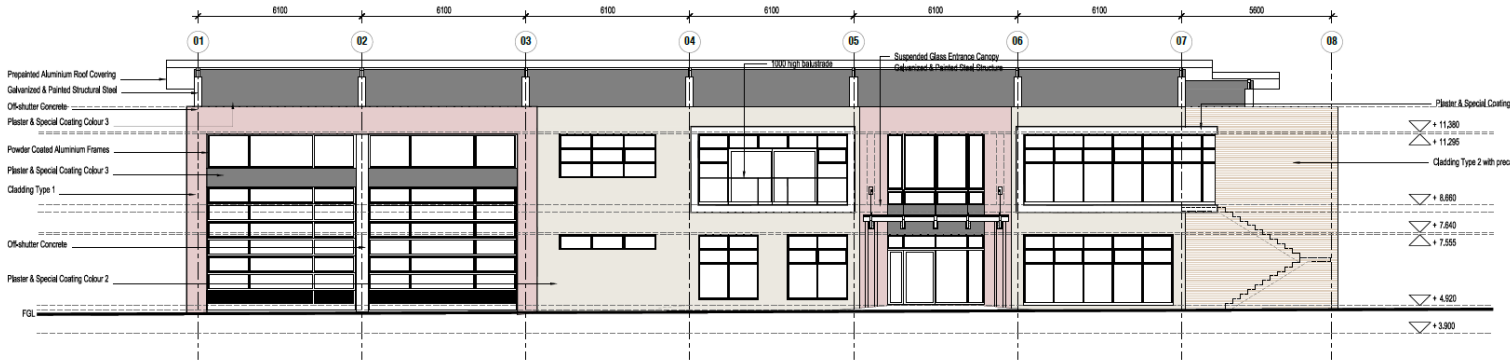
ARCHITECTURAL – GROUND FLOOR PLAN

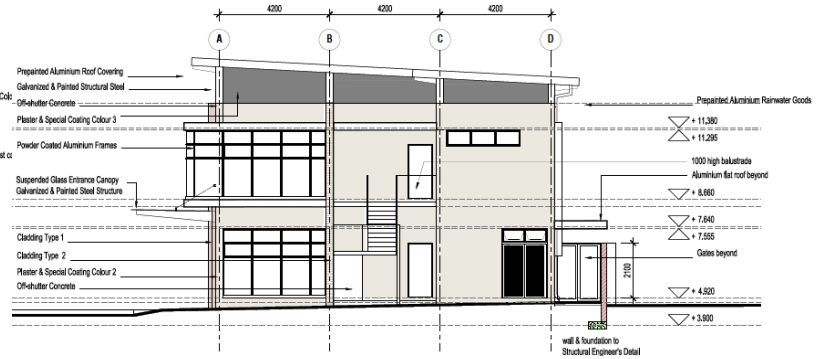


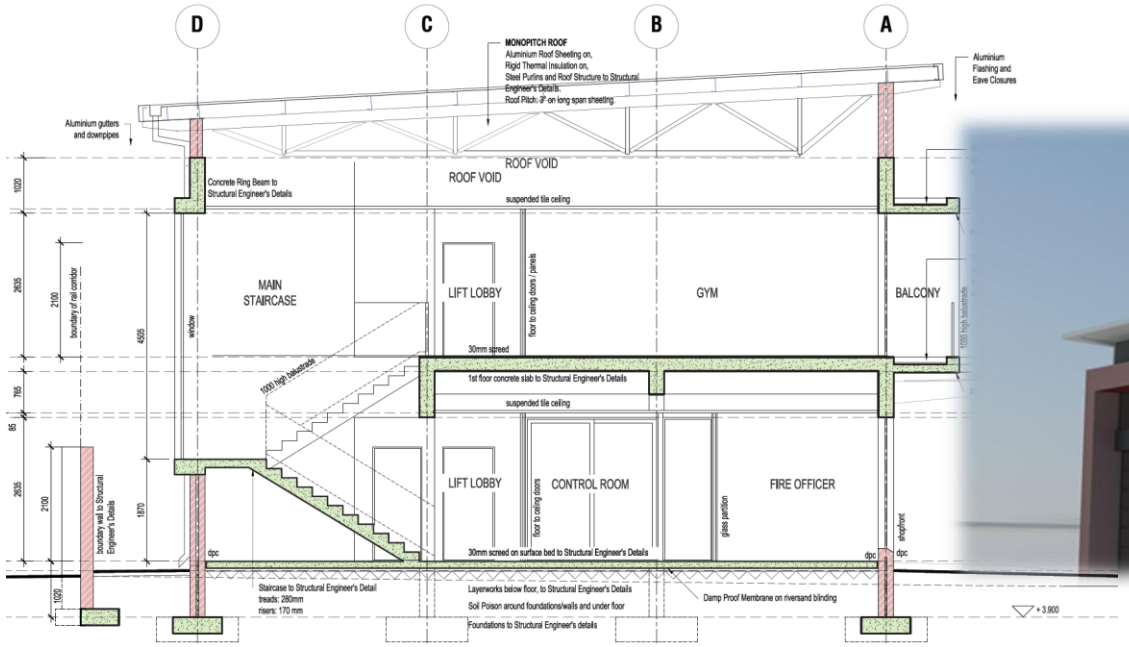
ARCHITECTURAL – FIRST FLOOR PLAN



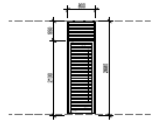
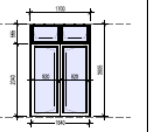
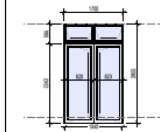
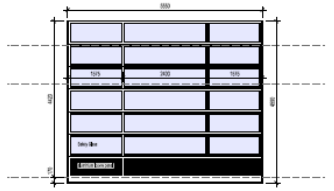
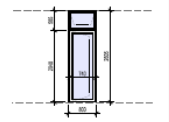
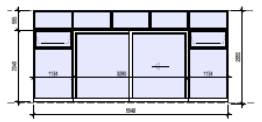
ARCHITECTURAL – SECTIONS ELEVATIONS

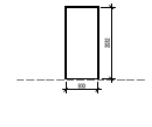
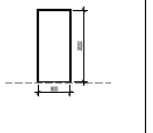
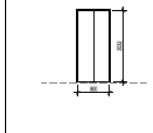
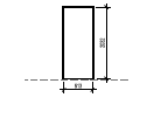
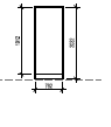
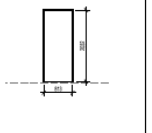
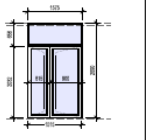
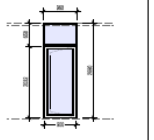
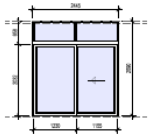


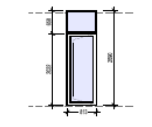
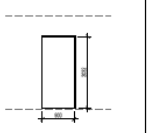
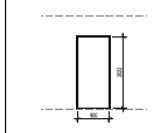
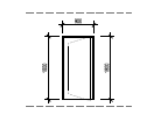
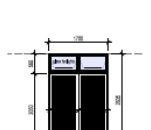


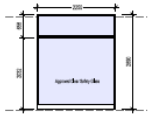
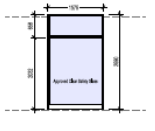


ARCHITECTURAL – DOOR SCHEDULE

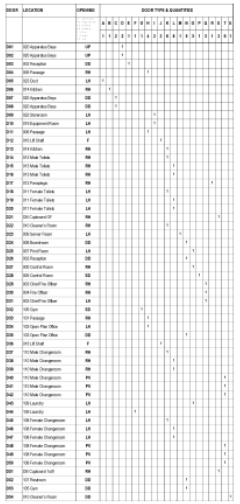
DOOR TYPE	dA	dB	dC	dD	dE	dF	dG
							
FRAME							
SASH / DOORS							
GLAZING / PANELLING							
IRONMONGERY							
WINDOW / DOOR PROTECTION							
NOTES							

DOOR TYPE	dH	dI	dJ	dK	dL	dM	dN	dO	dP
									
FRAME									
SASH / DOORS									
GLAZING / PANELLING									
IRONMONGERY									
WINDOW / DOOR PROTECTION									
NOTES									

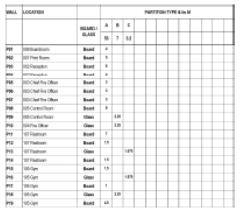
DOOR TYPE	dQ	dR	dS	dT	dU
					
FRAME					
SASH / DOORS					
GLAZING / PANELLING					
IRONMONGERY					
WINDOW / DOOR PROTECTION					
NOTES					

PARTITION TYPE	pA	pB	pC
			
COMPOSITION			
NOTES			

CROSS REFERENCE_ DOOR NUMBER - LOCATION - TYPE



CROSS REFERENCE_ PARTITION NUMBER - LOCATION - TYPE

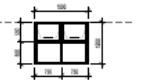
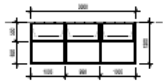
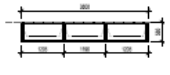
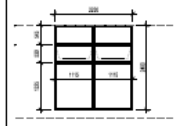
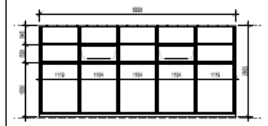
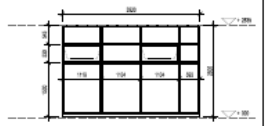


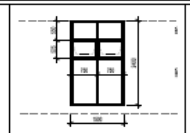
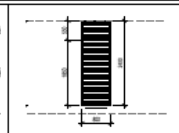
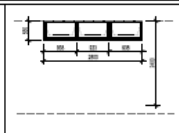
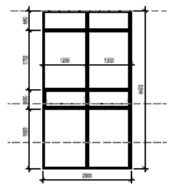
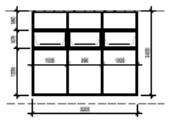
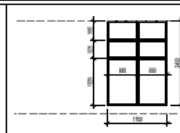
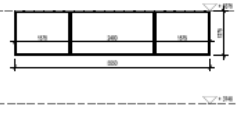
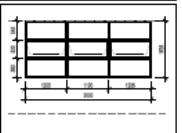
ARCHITECTURAL – IRONMONGERY

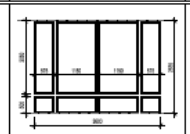
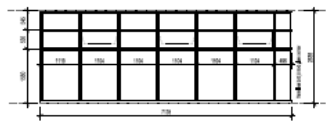
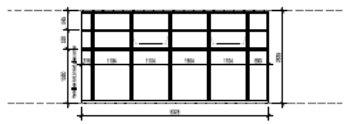
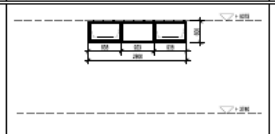
All items shall be:
* As specified below or similar approved
* Ergonomic and aesthetically similar to those in images below
* safe to operate and convenient
* Robust and long lasting
* Most suitable for coastal and industrial environment regarding corrosion and wear

REF	IRONMONGERY TYPE	UNIT	TOTAL REQUIRED	DOOR LOCATION » DOOR NUMBER » DOOR TYPE » SWING » IRONMONGERY SET
1	**SLIDING GEAR** Sliding Door Gear By Aluminium Door Manufacturer	Set	2	[illegible]
2	**HINGES** Hinges by door manufacturer	Each	78	[illegible]
3	**HINGES** Hinges by fire door manufacturer	Each	27	[illegible]
4	**HINGES** Hinges by Steel frame manufacturer	Each	45	[illegible]
5	**DOOR CLOSER SCREWS** Door closer M5 fixing screws Satin Nickel dormakaba Patent fixing screws for door closers	Each	26	[illegible]
6	**IRONMONGERY** Ironmongery by door manufacturer	Each	18	[illegible]
7	**DOOR CLOSER** TS71 Silver dormakaba EN 3/4 Regular Arm NON HOLD OPEN Door Closer - Hydraulic Speed Control. Pull Side Fixing EN3 850-950, EN4 950-1100 NOTE: Door Set 09: Door closer to be installed on pull side	Set	4	[illegible]
8	**DOOR CLOSER** TS73V - Silver dormakaba EN 2-4 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing EN2 750-850, EN3 850-950, EN4 950-1100 NOTE: Door Set 15: Door closer to be installed on pull side	Set	2	[illegible]
9	**DOOR CLOSER** TS73V DCSilver dormakaba EN 2-4 Regular Arm DELAYED ACTION Door Closer. Pull Side Fixing EN2 750-850, EN3 850-950, EN4 950-1100 NOTE: Door Set 10: Door closer to be installed on pull side	Set	1	[illegible]
10	**DOOR CLOSER TYPE 3** TS73V PA - Silver dormakaba EN 2-4 Parallel Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fitting Parallel Arm Bracket Included) EN2 750-850, EN3 850-950, EN4 950-1100 NOTE: Door closer to be installed on pull side	Set	3	[illegible]
11	**DOOR CLOSER TYPE 4** TS83 Silver dormakaba EN 3-6 Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing EN3 850-950, EN4 950-1100, EN5 1100-1250, EN6 1250-1400. Door Closer tested to EN 1154. Approved to AS1905 Part1 Fire Resistant Doors. Certified manufacturer to ISO 9001 NOTE: Door Set 07: Door closer to be installed on pull side	Set	2	[illegible]
12	**DOOR CLOSER TYPE 5** TS83 PA Silver dormakaba EN 3-6 Parallel Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Parallel Arm Bracket Included) EN3 850-950, EN4 950-1100, EN5 1100-1250, EN6 1250-1400. Door Closer tested to EN 1154. Approved to AS1905 Part 1 Fire Resistant Doors. Certified manufacturer to ISO 9001	Set	3	[illegible]
13	**DOOR CLOSER TYPE 6** TS83 PA HO Silver dormakaba EN 3-6 Parallel Arm HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Parallel Arm Bracket Included) EN3 850-950, EN4 950-1100, EN5 1100-1250, EN6 1250-1400. Door Closer tested to EN 1154. Approved to AS1905 Part1 Fire Resistant Doors. Certified manufacturer to ISO 9001	Set	3	[illegible]
14	**FLUSH HANDLE** DFP-SS-024 Stainless Steel dormakaba 120x40mm Oval Flush Pull Handle	Each	4	[illegible]
15	**PULL HANDLE** DHP-430-BL-SF 170x170 430 Brushed Stainless Steel dormakaba DPH301C Pull Handle BT fixed on a 170x170x1.2mm thick Grade 430 stainless steel plate with no cylinder cutout. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	Each	4	[illegible]
16	**PULL HANDLE** DHP-430-CR-SF 170X170 430 Brushed Stainless Steel dormakaba DPH301C Pull Handle BT fixed on a 170x170x1.2mm thick Grade 430 stainless steel plate with cylinder cutout right. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	Each	5	[illegible]
17	**PULL HANDLE** DPH215 BTB Stainless Steel dormakaba 382x32mm D Shaped Offset Tubular PullHandle BTB (BTB Fixing Sets included)	Pair	6	[illegible]
18	**PULL HANDLE** DPH301A BTB Stainless Steel dormakaba 325x25mm Straight Tubular Pull Handle BTB + BTB Fixing Sets	Pair	1	[illegible]
19	**PULL HANDLE** DPH301C BT Stainless Steel dormakaba 149x19mm Straight Tubular Pull Handle BT	Each	2	[illegible]
20	**PULL HANDLE** DPH301C BTB Stainless Steel dormakaba 149x19mm Straight Tubular Pull Handle BTB (BTB Fixing Sets included)	Pair	8	[illegible]
21	**PUSH PLATE** DPP-430-BL-SF 170X170 430 Brushed Stainless Steel dormakaba 170x170x1.2mm thick Grade 430 stainless steel plate Stainless Steel Plate to have 4 countersunk holes for screw fixing.	Each	4	[illegible]
22	**PUSHPLATE** DPP-430-CL-SF 170X170 430 Brushed Stainless Steel dormakaba 170x170x1.2mm thick Grade 430 stainless steel platewith cylinder cutout left. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	Each	5	[illegible]
23	**FULL PULL HANDLE** DRP-SS-023 Stainless Steel dormakaba 82x44mm Ring Flush Pull Handle	Each	2	[illegible]
24	**FIXING SCREWS** Fixing Screws Stainless Steel dormakaba M4 Patent Male / Female fixing screw pack (2 pairs per pack)	Each	18	[illegible]
25	**HANDLE** TH126 BP Cyl Stainless Steel dormakaba Lever handle on 170x170 plate with Cylinder cutout	Set	2	[illegible]
26	**HANDLE** TH126 NS Cyl Stainless Steel dormakaba Lever handle on narrow stile rose with narrow stile Cylinder escutcheons	Set	9	[illegible]
27	**LOCK** D02635 SS Stainless Steel dormakaba Narrow Stile Sash Lock Operating with European Profile Cylinder. Case dimentions (mm) 174H x 52D. Forend dimentions (mm) 238H x 22W. Backset 35mm. 20mm Throw	Each	9	[illegible]
28	**LOCK** 37051 AS UNION Helping hand indicator bolt for paraplegic wc	Each	1	[illegible]
29	D02735 SS Stainless Steel dormakaba Narrow Stile Dead Lock Operating with European Profile Cylinder. Case dimentions (mm) 174H x 52D. Forend dimentions (mm) 238H x 22W. Backset 35mm. 20mm Throw	Each	6	[illegible]
30	**LOCK** D02835 SS Stainless Steel dormakaba Narrow Stile Roller Dead Lock Operating with European Profile Cylinder. Casedimentions (mm) 174H x 52D. Forend dimentions (mm) 238H x 22W. Backset 35mm. 20mm Throw	Each	2	[illegible]
31	**LOCK** D02935 SS Stainless Steel dormakaba Narrow Stile Hook Lock Operating with European Profile Cylinder. Case dimentions (mm) 174H x 45D. Forend dimentions (mm) 208H x 22W. Backset 35mm. 18mm Throw	Each	2	[illegible]
32	**LOCK** D032D SS Stainless Steel dormakaba Bathroom Deadlock. Case dimensions (mm) 102H x 78D. Forend dimensions (mm) 155H x 22W. Backset 57mm.	Each	8	[illegible]
33	**LOCK** D036S SS Stainless Steel dormakaba Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm.	Each	2	[illegible]
34	**LOCK** D037D SS Stainless Steel dormakaba Cylinder Deadlock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm.	Each	7	[illegible]
35	**CYLINDER** DDC206301 MK Satin Nickel dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin. Double Cylinder - Master Keyed	Each	14	[illegible]
36	**CYLINDER** DHK064201 Satin Nickel dormakaba 43mm Half Knob Cylinder	Each	1	[illegible]
37	**CYLINDER** DKC206301 MK Satin Nickel dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Knob Cylinder - Master Keyed	Each	9	[illegible]
38	**CYLINDER** DSC204101 MK Satin Nickel dormakaba 40.5 - Europrofile Nickel Plated E-SP 5 PinSingle Cylinder - Master Keyed	Each	6	[illegible]
39	**ESCUTCHEON** DCE-002 S.S Stainless Steel dormakaba Round Cylinder escutcheon	Pair	1	[illegible]
40	**ESCUTCHEON** DCE-105 S.S Stainless Steel dormakaba Narrow Stile Cylinder escutcheon	Pair	8.5	[illegible]
41	**INDICATOR BOLT** DWC-085 Stainless Steel dormakaba Bathroom WC indicator (Red and White)and turnknob	Set	8	[illegible]
42	**PANIC LOCK** PHA2 S SD dormakaba Two point locking panic bar - Single door- Door leaf 1080mm wide x 2270mm high (2201. 2104 PHX02. PHX04)	Set	2	[illegible]
43	**HANDLE** PHT3801 Satin Nickel dormakaba Exterior access lock with lever handle (Cilinder not included)	Each	2	[illegible]
44	**DOOR KEEP** DPS-SS-032 Stainless Steel DCE-105 S.Sdormakaba Dust Proof Strike	Each	9	[illegible]
45	**BOLTS** Flush Bolt as per Door Manufacturer	Each	18	[illegible]
46	**ROLLER CATCH** DBC-SS-022 Stainless Steel dormakaba Adjustable Roller Bolt	Each	2	[illegible]
47	**DOOR STOPPER** DDH-SS-026 Stainless Steel dormakaba Wall Buffer	Each	8	[illegible]
48	**DOOR STOPPER** DDS-SS-017 Stainless Steel dormakaba Floor Mounted Door Stop	Each	29	[illegible]
49	**COAT HOOK** DHC-SS-0318 Stainless Steel dormakaba Hat and Coat Hook with rubber buffer	Each	9	[illegible]
50	**CABIN HOOK** CH 150 Satin Chrome dormakaba Cabin hook 150mm	Set	3	[illegible]
51	**KICKPLATE** DKP-430-SF 200 430 Brushed Stainless Steel dormakaba 200x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless SteelKick Plate to have 10 countersunk holes for screw fixing. (List price calculated on 883mm wide door)	Each	20	[illegible]
52	**DOOR SIGNAGE** DSS-130 M Stainless Steel dormakaba 150x150mm MALE sign	Each	2	[illegible]
53	**DOOR SIGNAGE** DSS-131 F Stainless Steel dormakaba 150x150mm FEMALE sign	Each	2	[illegible]
54	**DOOR SIGNAGE** DSS-133 P Stainless Steel dormakaba 150x150mm DISABLED PERSONS sign	Each	1	[illegible]
55	**DOOR SIGNAGE** DSS-135 TC Stainless Steel dormakaba 150x150mm TEA CUP sign	Each	1	[illegible]
56	**DOOR SIGNAGE** DSS-136 EL Stainless Steel dormakaba 150x150mm ELECTRICAL sign	Each	2	[illegible]
57	**DOOR SIGNAGE** DSS-138 C Stainless Steel dormakaba 150x150mm CLEANER sign	Each	1	[illegible]
58	**GRABRAIL** DGR-SS-150 Stainless Steel dormakaba 800x296mm Cistern Back Rail	Each	1	[illegible]
59	**GRABRAIL** DGR-SS-152 Stainless Steel	Each	1	[illegible]

ARCHITECTURAL – WINDOW SCHEDULE

WINDOWS	WA TYPE WINDOW • 2 off	WB TYPE WINDOW • 6 off	WC TYPE WINDOW • 1 off	WD TYPE WINDOW • 1 off	WE TYPE WINDOW • 1 off	WF TYPE WINDOW • 2 off	WG TYPE WINDOW • 1 off	WH TYPE WINDOW • 1 off
								
FRAME								
SASH / DOORS								
GLAZING / PANELLING								
IRONMONGERY								
WINDOW / DOOR PROTECTION								
NOTES								

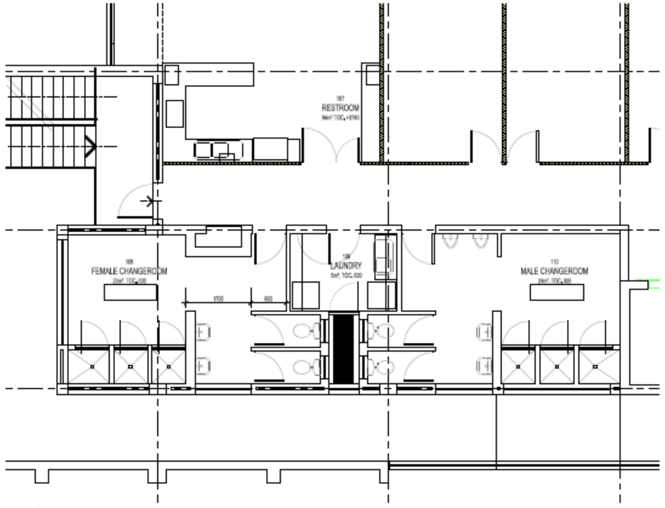
WINDOWS	WJ TYPE WINDOW • 2 off	WK TYPE WINDOW • 1 off	WL TYPE WINDOW • 1 off	WM TYPE WINDOW • 1 off	WN TYPE WINDOW • 1 off	WO TYPE WINDOW • 2off	WP TYPE WINDOW • 2 off	WQ TYPE WINDOW • 1 off
								
FRAME								
SASH / DOORS								
GLAZING / PANELLING								
IRONMONGERY								
WINDOW / DOOR PROTECTION								
NOTES								

WINDOWS	WR TYPE WINDOW • 1 off	WS TYPE WINDOW • 1 off	WT TYPE WINDOW • 1 off	WU TYPE WINDOW • 1 off	
					
FRAME					
SASH / DOORS					
GLAZING / PANELLING					
IRONMONGERY					
WINDOW / DOOR PROTECTION					
NOTES					

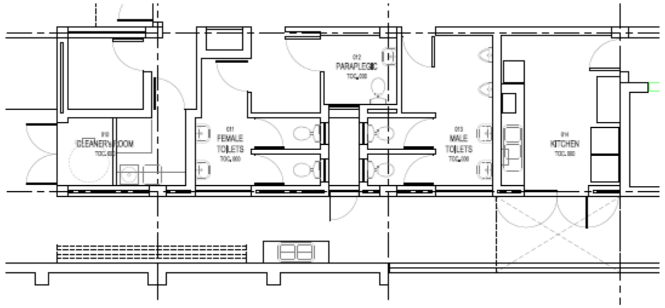
ARCHITECTURAL – SANWARE SCHEDULE

REF.	IMAGE	FITTING / FIXTURE TYPE	TOTAL REQUIRED	LOCATION: Cleaner's Room 010	Female Toilets 011	Paraplegic Toilet 012	Male Toilets 013	Kitchen 014	Double Apparatus Bay 020	Workshop 021	Covered Back Entrance 022	drying yard 027	refuse yard 028	parking area 029	Restroom 107	Female Changeroom 108	Laundry 109	Male Changeroom 110
		All fixtures, fasteners, brackets, supports and fittings shall be corrosion resistant and suitable for coastal application. Water supply at each fixture, shall be fitted with it's own shut-off valve.																
1		**Toilet Pan - Top Entry** Cobra white Top entry pan, including matching heavy duty white seat. Dimensions: (l) 570mm x (w) 370mm x (h) 400mm	9		2	1	2									2		2
2		**Toilet Pan Bracket** Galvanized Floor Bracket including fixing set, as recommended by toilet pan manufacturer. For use in 115 mm, 530 mm, and dry-walling and adjustable for paraplegic applications. Rim height - standard: 410mm above ffl (45mm clearance under). Rim height - paraplegic: 460mm above ffl	9		2	1	2									2		2
3		**Toilet Pan Flushmaster** Cobra Flush valve for toilet top-entry chromo-plated. Lever or Push button. Custom longer lever for paraplegic toilet	9		2	1	2									2		2
4		**Washbasin - standard** Cobra Arrive Square white wall hung basin. 545mm long X473 mm wide. 1 X pre-punched tap hole in the centre of the basin. Overflow, including wall fixing set for coastal application.	8		2		2									2		2
5		**Washbasin - paraplegic** GROHE BAU WASH BASIN 60, white. wall hung 1 hole punched with overflow 609 x 443mm sanitary ware	1			1												
6		**Washbasin Waste** Click type waste. Slotted, with integral plug. 62mm Ø flange, 80mm long shank with integrated overflow. Male chrome/brass connection end. Tags: 20 Year Warranty Cobra PureShine Cobra Teamassist	9		2	1	2									2		2
7		**Washbasin Trap** COBRA BOTTLE TRAP UNIVERSAL With adjustable telescopic waste connection pipe. Brass body including waste adaptor	10		2	1	2			1						2		2
8		**Washbasin Tap** COBRA SEINE BASIN MIXER STANDARD Seine single lever standard basin mixer. Pillar type with single hole. Manufactured with dezincification resistant (DZR) brass.	10		2	1	2			1						2		2
9		**Urinal** COBRA PAUSE URINAL Ultra Eco design to accommodate a water saving 0.8L flush. Compact concealed trapway.	4				2											2
10		**Urinal Waste** Stainless steel domical type	4				2											2
11		**Urinal Flushmaster** COBRA FLUSH JUNIOR URINAL FLUSH VALVE Exposed. Non-hold open feature. With 'Stall O Stop'-control inlet, wall flange, including matching flush pipes and other matching fittings. 400kPa.	4				2											2
12		**Shower Rose** Prestex single-function shower head, chrome. Including 1/2 BSP female inlet.														3		3
13		**Shower Mixer** GROHE BAUEDGE SINGLE-LEVER SHOWER MIXER StarLight chrome finish adjustable flow rate limiter escutcheon and shaft sealing optional temperature limiter														3		3
14		**Shower Waste & Trap** Square Shower Waste 100 x 100 square stainless steel plate with brass shower waste and pvc shower trap and necessary extension pipes.														3		3
15		**Sink** NEX 621 Stainless Steel | 101.0048.717 FAMILY : Sinks | SERIES : Neptune | MODEL : NEX 621 | FINISH : Stainless Steel | INSTALLATION TYPE : Inset	2					1							1			
16		**Sink Waste** Pair of Franke 90mm Polished Stainless Steel Basket Strainer Waste With Overflow Connection	4					2							2			
17		**Sink Trap** Rubber P/S trap with universal connections for both in and outlets 40mm and 50mm. Rubber T connector to double waste	2					1							1			
18		**Sink Tap** Swivel Chrome | 115.0100.183 FAMILY : Sink Mixers | SERIES : Highview | MODEL : Swivel | FINISH : Chrome | INSTALLATION TYPE : Tap standing	2					1							1			
19		**Wash Trough** Franke Model SIRX 42 Washtrough, 500x450x240mm deep. Unit to be manufactured from Grade 304(18/10) Stainless Steel, 1,2mm gauge. Units to be fitted into the worktop (worktop elsewhere measured).	2									1					1	
20		**Wash Trough Waste** 40mm pvc waste outlet with stainless steel basket and plug	4	1						1		1					1	
		Wash Trough Trap Rubber P/S trap with universal connections for both in and outlets 40mm and 50mm																

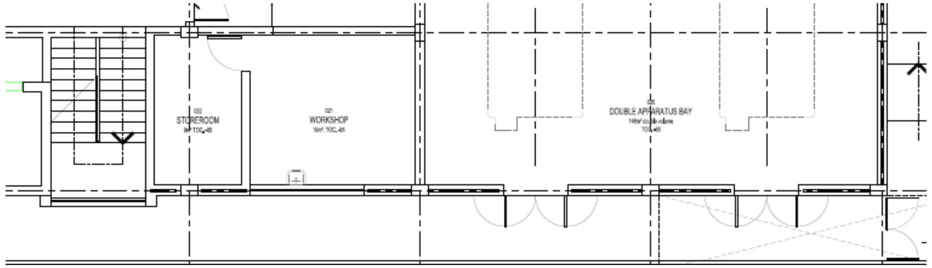
REF.	IMAGE	FITTING / FIXTURE TYPE	TOTAL REQUIRED	LOCATION: Cleaner's Room 010	Female Toilets 011	Paraplegic Toilet 012	Male Toilets 013	Kitchen 014	Double Apparatus Bay 020	Workshop 021	Covered Back Entrance 022	drying yard 027	refuse yard 028	parking area 029	Restroom 107	Female Changeroom 108	Laundry 109	Male Changeroom 110
		All fixtures, fasteners, brackets, supports and fittings shall be corrosion resistant and suitable for coastal application. Water supply at each fixture, shall be fitted with it's own shut-off valve.																
23		**Slop Hopper** Franke model CH Slop Hopper 545x540mm grade 304 (18/10) stainless steel 1,2mm thick with a 100mm high integral splash back to the rear and both sides.	1	1														
24		**Slop Hopper Trap** Outlet to suit standard 101mm PVC 'P' Trap	1	1														
25		**Slop Hopper Flushmaster** Cobra model FM 1 000 - 35mm water supply flush valve or, Cobra FJ 3 000 - 20mm water supply flush valve and a . . . Cobra FJF 1.2 straight flush pipe connected to CP on brass adaptor	1	1														
26		**Cleaner's Sink** Single bowl catering sink Pressed bowls 500 x 500 x 230 mm deep Grade 304 (18/10) Stainless Steel 1.2 mm gauge Fully sound deadened with galvanized backing sheet Stainless steel slatted under shelf Splash backs to wall sides	1	1														
27		**Workshop Sink** ANIMA single washbasin Single wash basin for wall mounting, stainless steel, surface satin finished, material thickness 1 mm, seamless welded bowl with diameter 550 x 350 x 140 mm, rectangular shape, 75 mm tap ledge, with overflow	1							1								
28		**Hose Tap** COBRA HOSE BIB TAP - BRASS, 22mm for industrial use	5						1		1	1	1	1				
29		**Gulley** PVC gulley grab and head in precast concrete gulley collar	4								1	1	1	1				
30		**Towel Dispenser A** (to be confirmed prior order) Wall-Mounted Paper Towel Holder Aluminium Frame and non-corrosive components. Dimensions: 23 (D) x 42 (W) x 42cm (H)	3					1		1					1			
31		**Towel Dispenser B** (to be confirmed prior order) Wall mounted and powered Stainless Steel (coastal grade) Paper Towel dispensing unit with automatic dispensing. All components shall be non-corrosive	6		1	1	1		1							1		1
32		**Kitchen Bin** (to be confirmed prior order) Heavy Duty industrial quality concealed plastic bins with non-corrosive mechanisms						1							1			
33		**Towel Desposer** (to be confirmed prior order) Wall mounted Stainless Steel (coastal grade) bin with inner binliner securing system. Complimentary to Towel Dispenser B, above All components shall be non-corrosive	5		1	1	1		1	1								
34		**SHE Bin** (to be confirmed prior order) She Bin Saben 10l Stainless Steel			2	1										2		
35		**Toilet Roll Holder** (to be confirmed prior order) Lockable triple toilet roll holder Material: 430 Stainless steel Toilet rolls:3 Dimensions:365 x 126 x 136 mm	8		2		2									2		2
36		**Soap Dispenser** (to be confirmed prior order) Brushed Stainless Steel Soap type:Liquid gel only Fill volume:1.25 liter Operation:Manual Dimensions: 140 x 235 x 140 mm	5		1	1	1									1		1
37		**Spray Dispenser** (to be confirmed prior order) Wall Mount Seat Sanitiser Spray (400ml)	9		2	1	2									2		2
38		**Shower Caddy** Corner Shelf, 2 Tier, Stainless Steel length 335mm, Width: 265mm, Depth: 160mm														3		3
39		**Toilet Brush** Best quality white nylon toilet brush	9		2	1	2									2		2
40		**Hand Drier** Air Towel Hope Saben Stainless Steel, 1400w	4		1		1									1		1
41		**Towel Hooks** Heavy duty double scarf/towel hook	6													3		3
42		**Jacket Hooks** (to be confirmed prior order) 8 of Powder Coated Aluminium or Stainless double Jacket Hooks on 20x120x2500mm sealed hardwood or powder coated aluminium beam fixed to wall	8						2						2	2		2
		Towel Rack A 500mm long Robust Aluminium / Stainless Steel Kitchen Towel Rack and hooks																



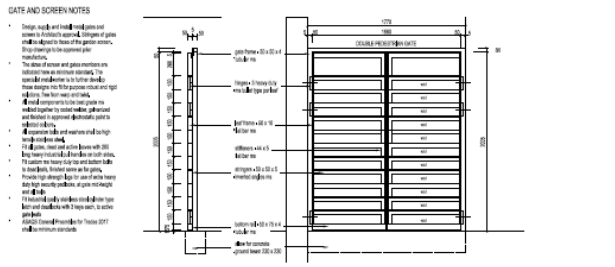
SANWARE LOCATION - first floor 1:50
ACCESSORY POSITIONS TO BE DETERMINED ON SITE



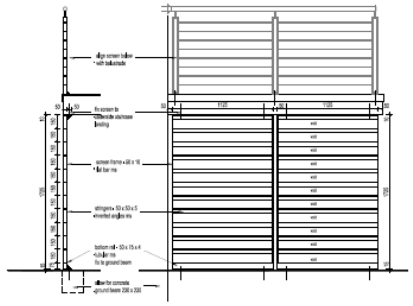
SANWARE LOCATION - ground floor 1:50
ACCESSORY POSITIONS TO BE DETERMINED ON SITE



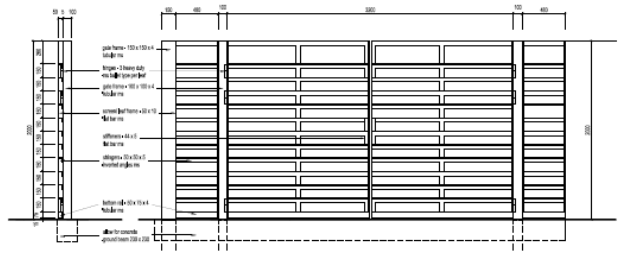
ARCHITECTURAL – EXTERNAL DETAILS



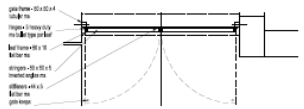
PEDESTRIAN GATE - Section & South Elevation 1:20



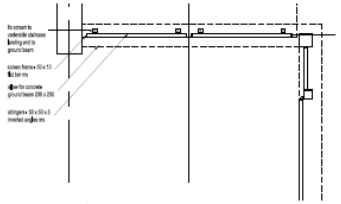
GARDEN SCREEN - Section & North Elevation 1:20



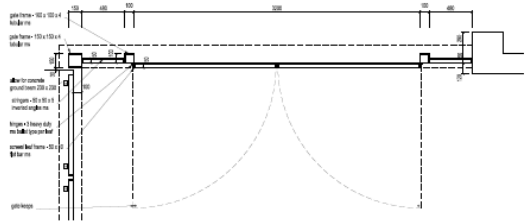
VEHICULAR GATE - Section & East Elevation 1:20



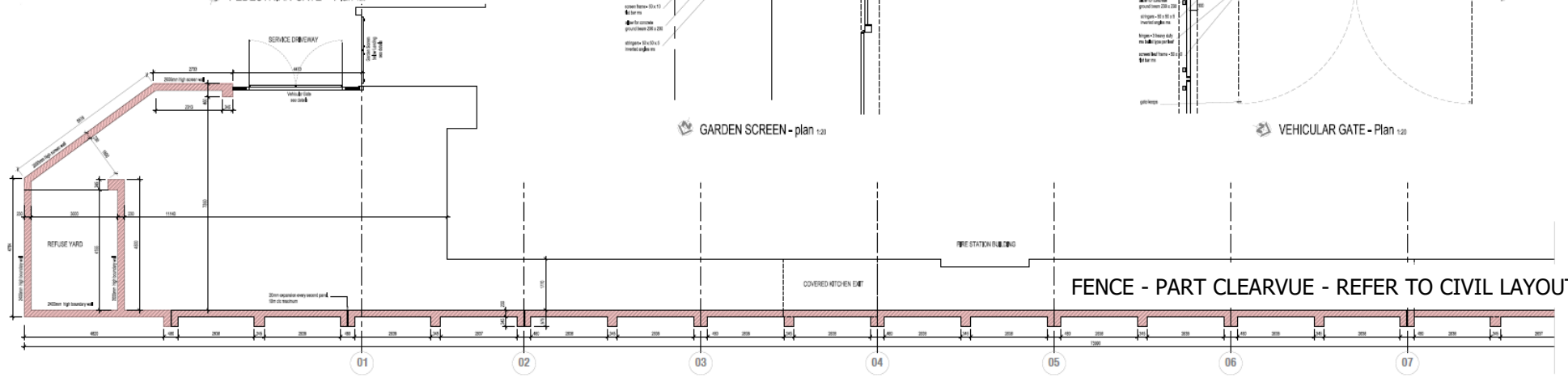
PEDESTRIAN GATE - Plan 1:20



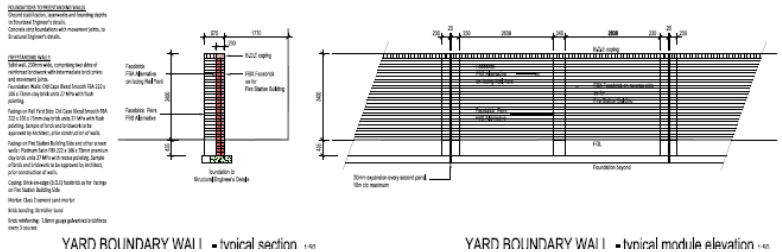
GARDEN SCREEN - plan 1:20



VEHICULAR GATE - Plan 1:20



FENCE - PART CLEARVUE - REFER TO CIVIL LAYOUTS

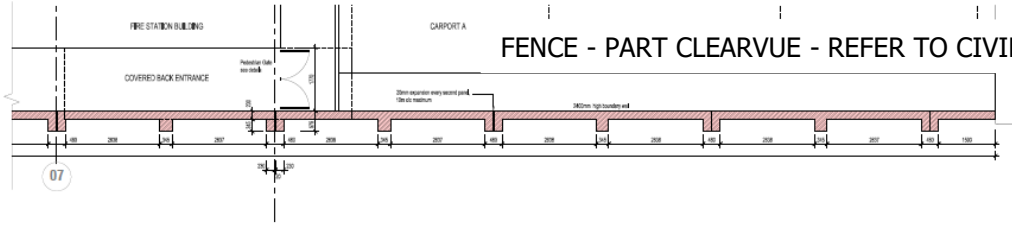


YARD BOUNDARY WALL - typical section 1:50

YARD BOUNDARY WALL - typical module elevation 1:50

YARD BOUNDARY WALL - portion 1:50

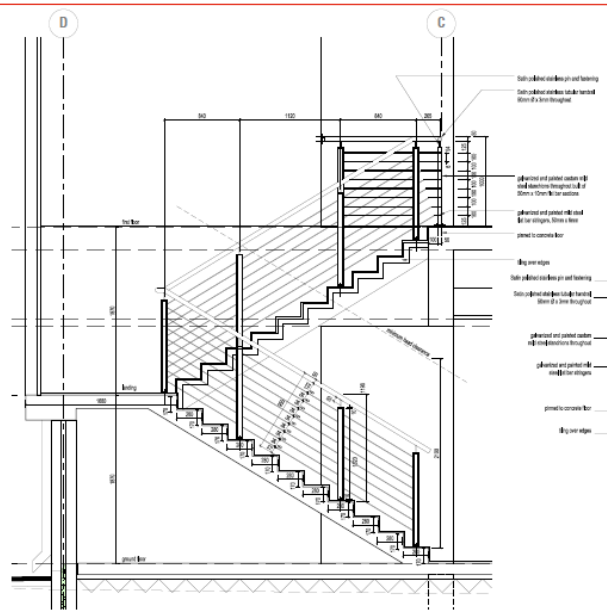
REFER TO SITE PLAN



FENCE - PART CLEARVUE - REFER TO CIVIL LAYOUTS

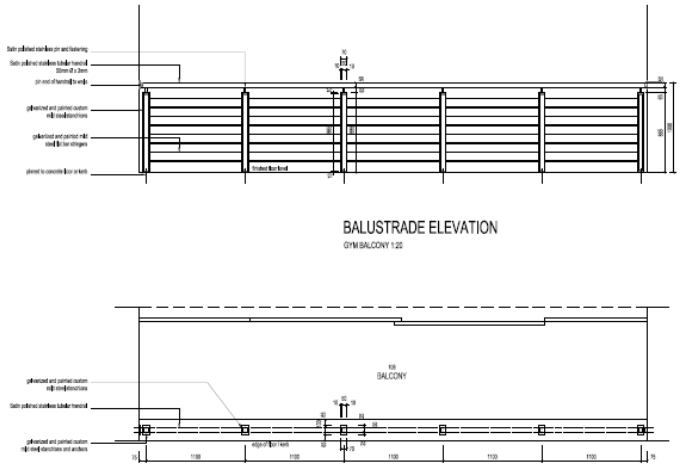
YARD BOUNDARY WALL - portion 1:50

ARCHITECTURAL – BALUSTRADE DETAILS



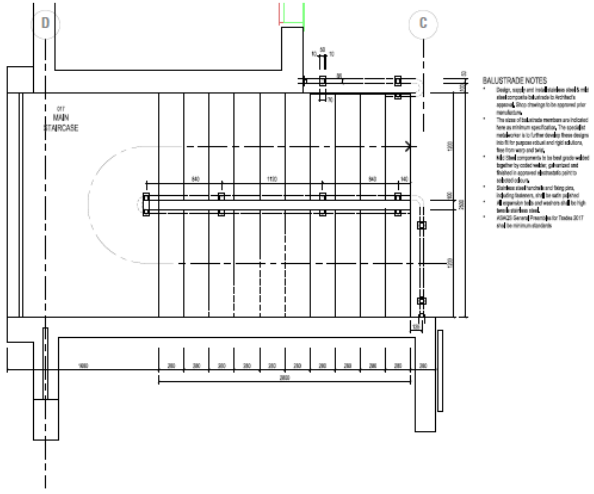
BALUSTRADE ELEVATION
MAIN STAIRCASE 1:20

BALUSTRADE ELEVATION
FIRE ESCAPE STAIRCASE 1:20

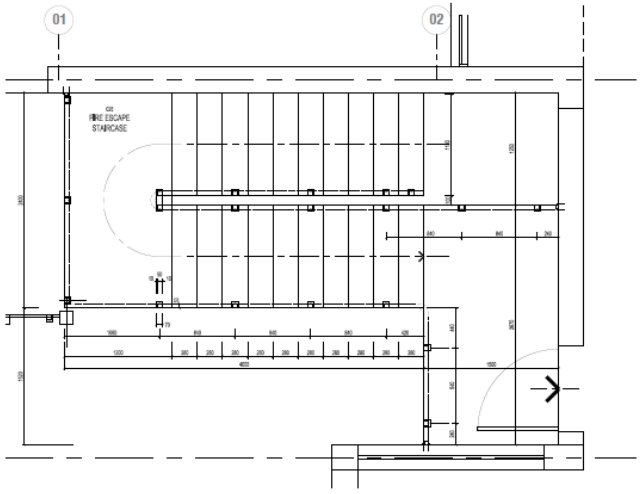


BALUSTRADE ELEVATION
GYM BALCONY 1:20

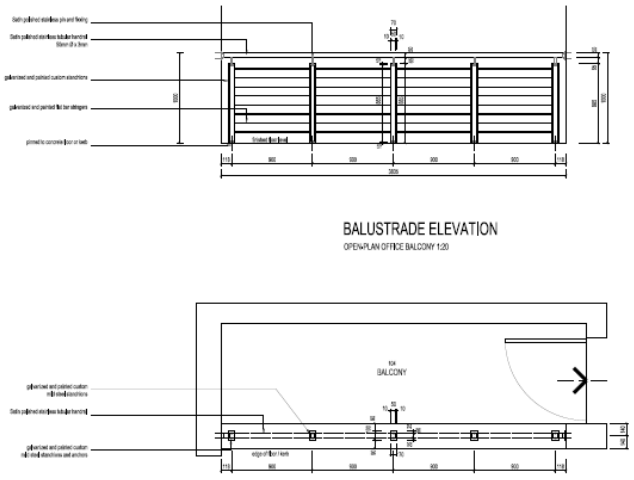
BALUSTRADE PLAN
GYM BALCONY 1:20



BALUSTRADE PLAN
MAIN STAIRCASE 1:20



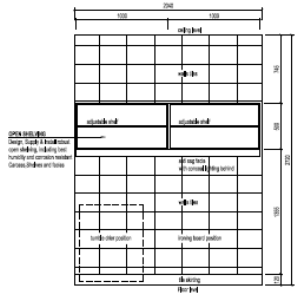
BALUSTRADE PLAN
FIRE ESCAPE STAIRCASE 1:20



BALUSTRADE ELEVATION
OPEN-PLAN OFFICE BALCONY 1:20

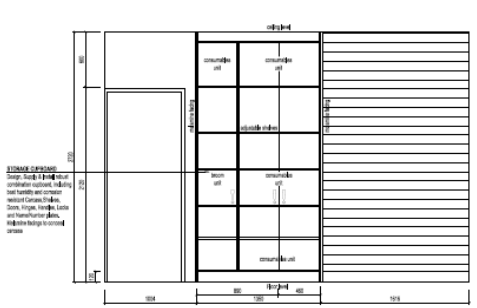
BALUSTRADE PLAN
OPEN-PLAN OFFICE BALCONY 1:20

ARCHITECTURAL – SHOPFITTING kitchen & laundry



109 LAUNDRY CUPBOARD DETAILS 1:20

FRONT VIEW - OPEN SHELVES

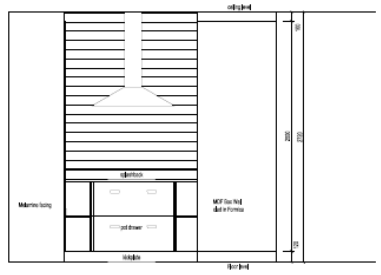


014 KITCHEN CUPBOARD DETAILS 1:20

FRONT VIEW - STORAGE CUPBOARDS

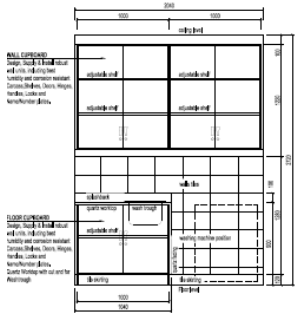
107 RESTROOM CUPBOARD DETAILS 1:20

SECTIONAL EAST VIEW - LOCKER CUPBOARDS & KITCHEN CUPBOARDS



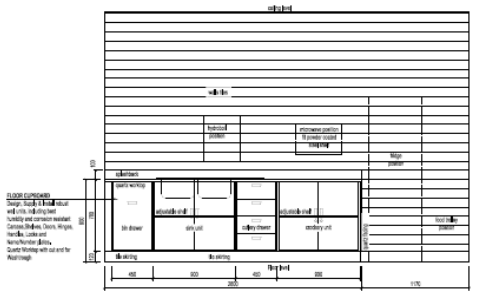
107 RESTROOM CUPBOARD DETAILS 1:20

SOUTH VIEW - LOCKER CUPBOARDS & KITCHEN CUPBOARDS



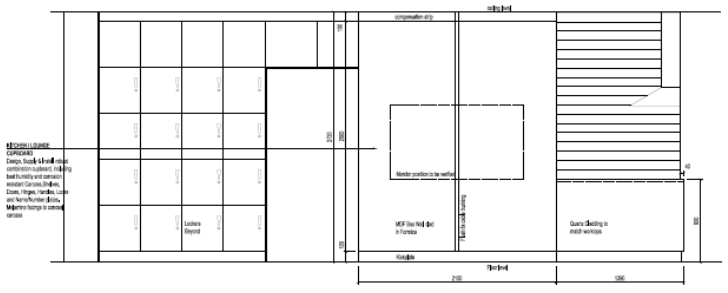
109 LAUNDRY CUPBOARD DETAILS 1:20

FRONT VIEW - WASH TROUGH CUPBOARD & STORAGE CUPBOARDS



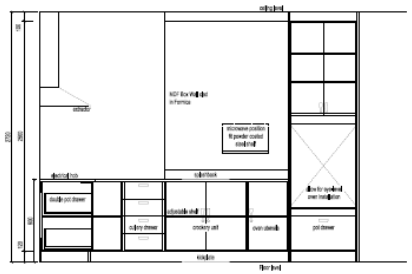
014 KITCHEN CUPBOARD DETAILS 1:20

FRONT VIEW - PREP CUPBOARDS



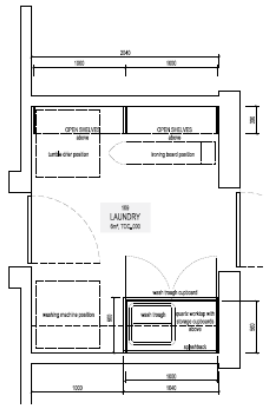
107 RESTROOM CUPBOARD DETAILS 1:20

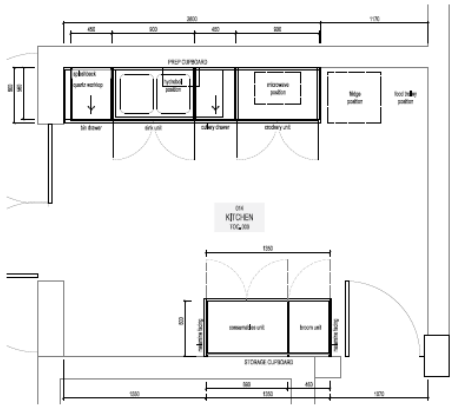
EAST VIEW - LOCKER CUPBOARDS & KITCHEN CUPBOARDS

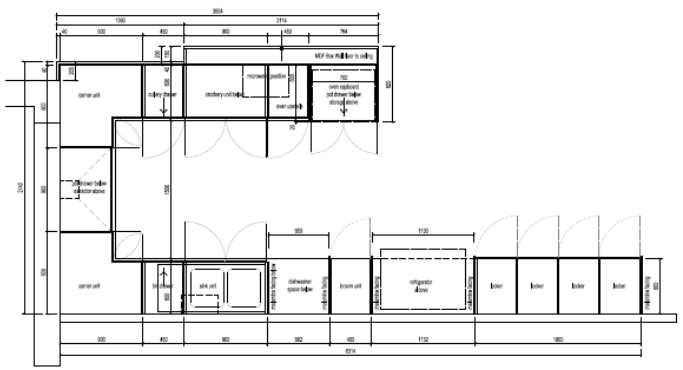


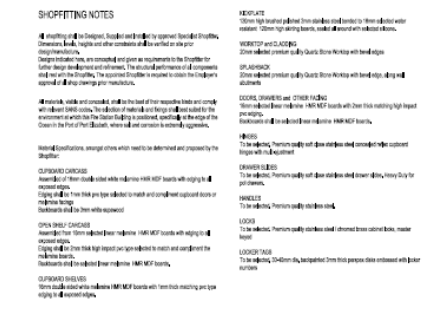
107 RESTROOM CUPBOARD DETAILS 1:20

SECTIONAL WEST VIEW - KITCHEN CUPBOARDS



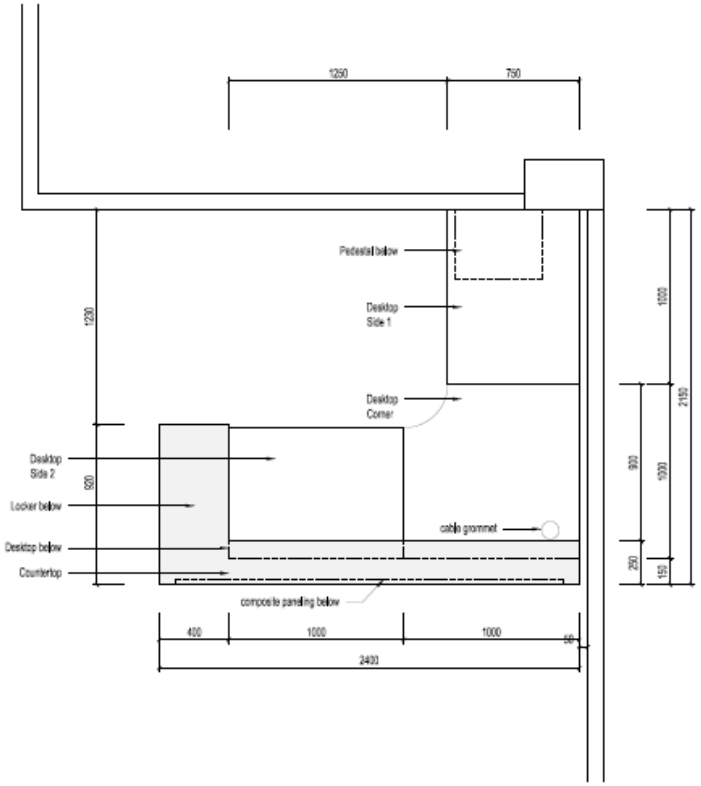




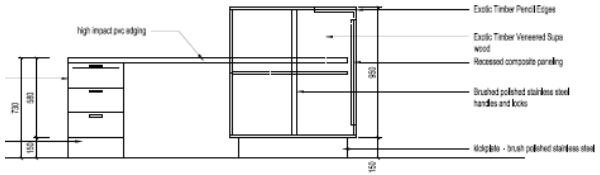


SHOPFITTING NOTES

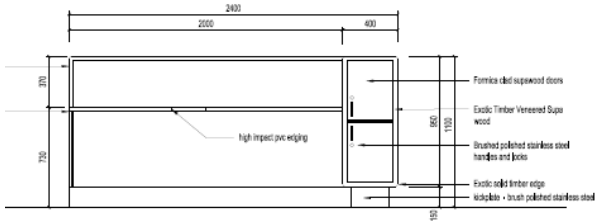
ARCHITECTURAL – SHOPFITTING reception & changerooms



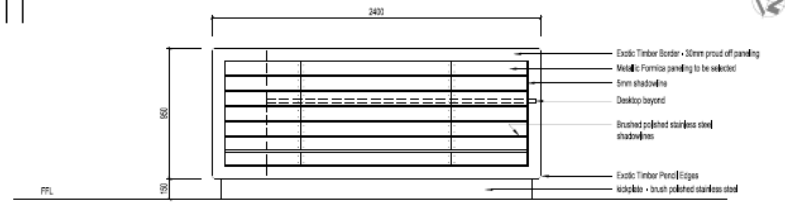
002 RECEPTION DESK 1:20
PLAN VIEW



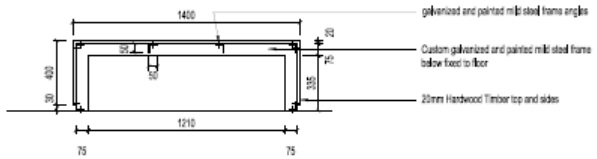
002 RECEPTION DESK 1:20
SIDE VIEW



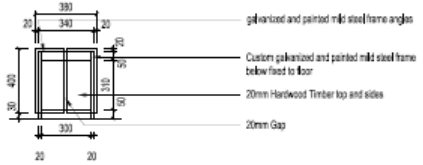
002 RECEPTION DESK 1:20
SECTIONAL REAR VIEW



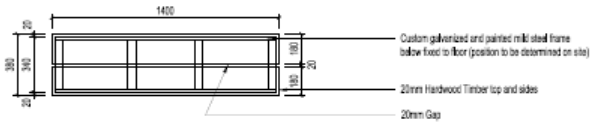
002 RECEPTION DESK 1:20
FRONT VIEW



CHANGEROOM BENCH 1:20
FRONT VIEW

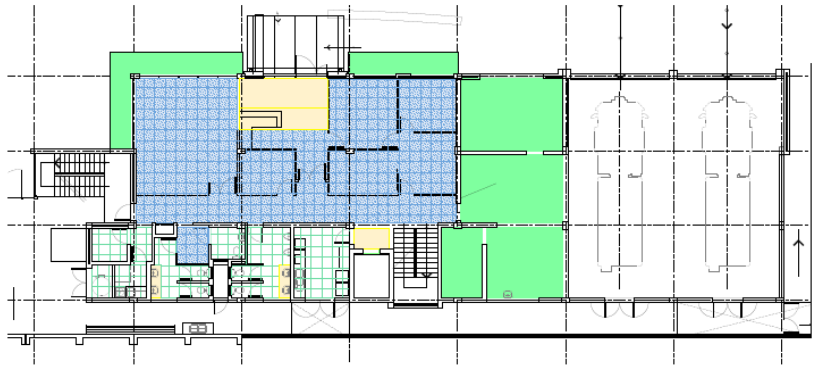


CHANGEROOM BENCH 1:20
SIDE VIEW

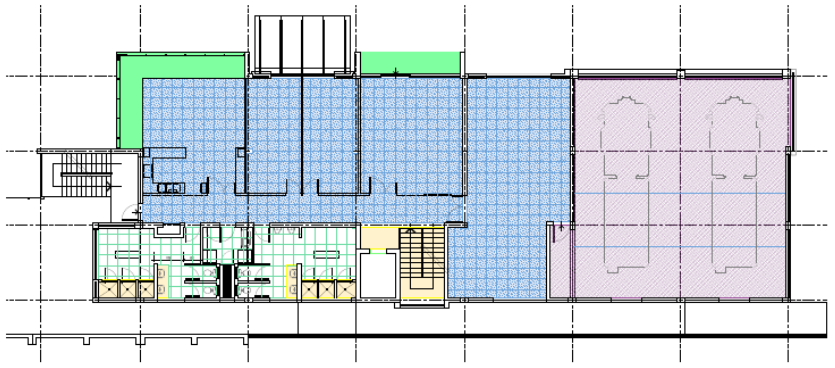


CHANGEROOM BENCH 1:20
PLAN VIEW

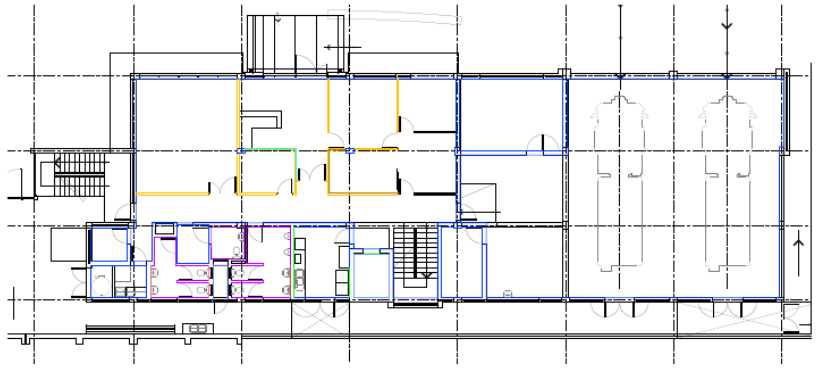
ARCHITECTURAL – FINISHES LAYOUTS



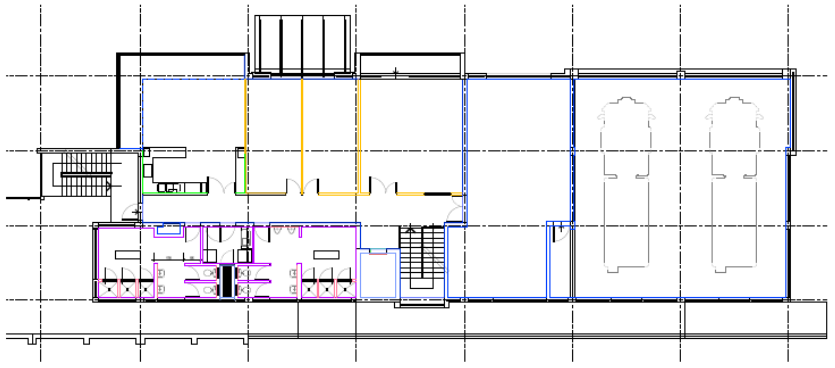
CEILING PLAN - ground floor
1:100



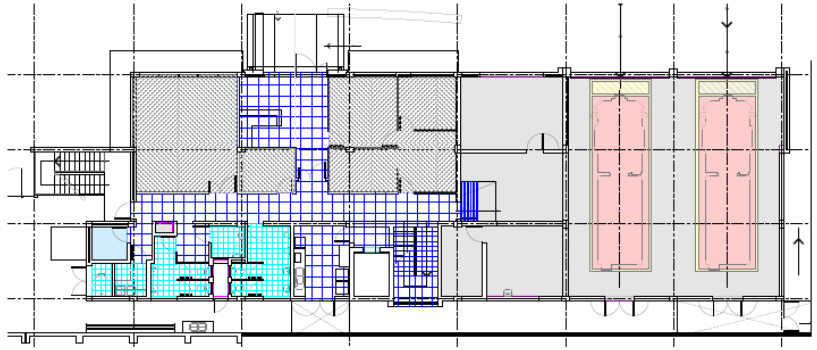
CEILING PLAN - 1st floor
1:100

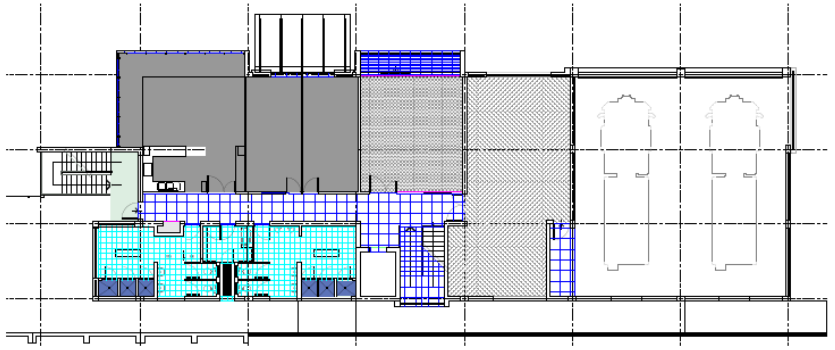


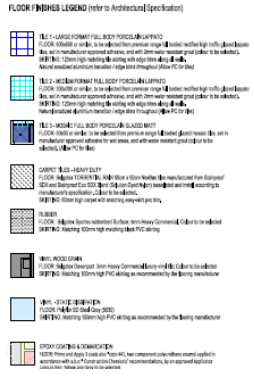
WALL FINISHES PLAN - ground floor
1:100



WALL FINISHES PLAN - 1st floor
1:100





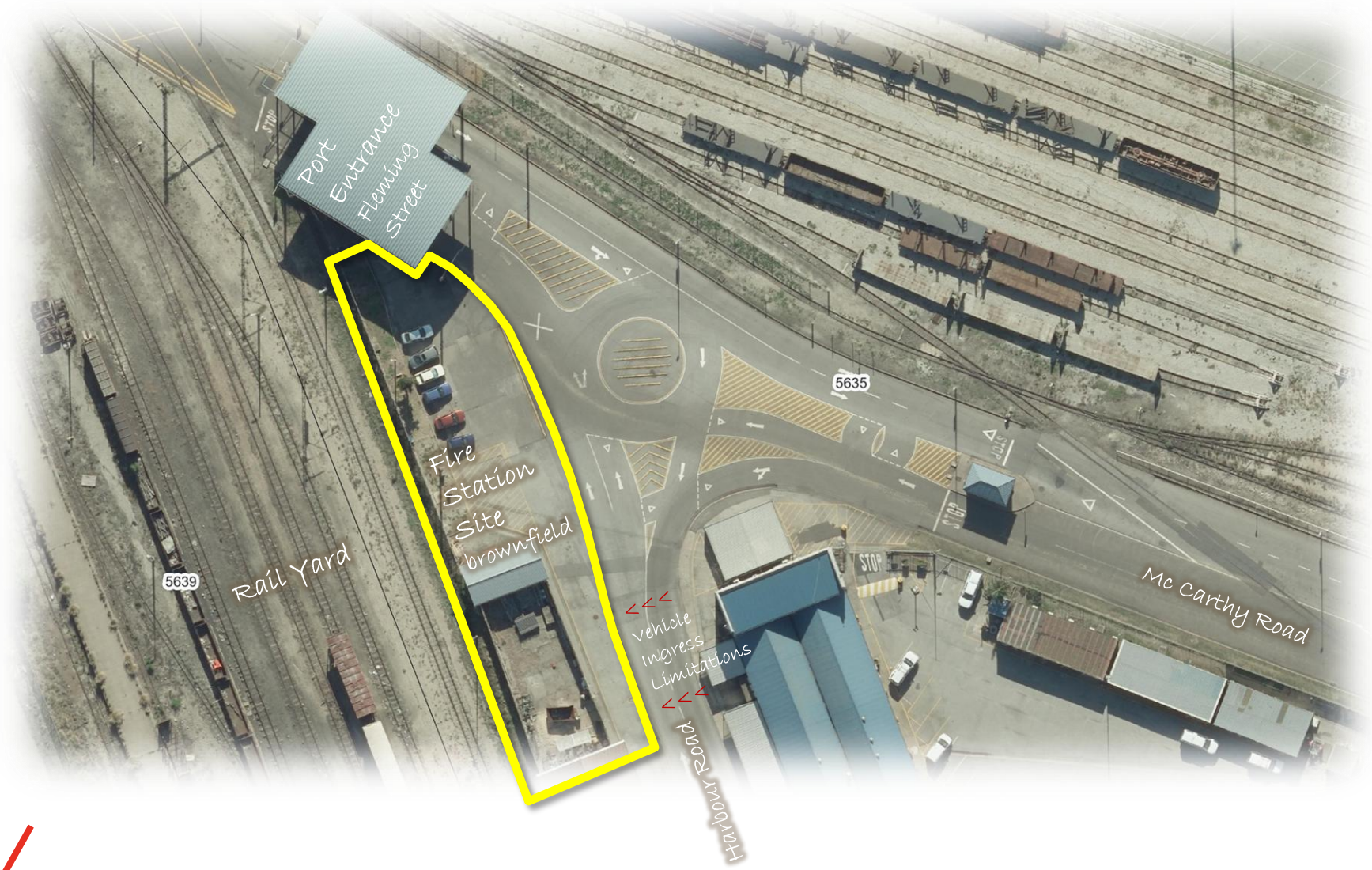


ARCHITECTURAL – CONTRACTOR'S SPECIALIST DESIGNS

1. STRUCTURAL COMPONENTS
2. MECHANICAL COMPONENTS
3. DOORS & WINDOWS DETAILS
4. METALWORK DETAILS
5. SHOPFITTING, JOINERY & SPECIAL FURNITURE
6. ALLOWANCE FOR LOOSE FURNITURE & ACCESSORIES

4.2 Civil Engineering

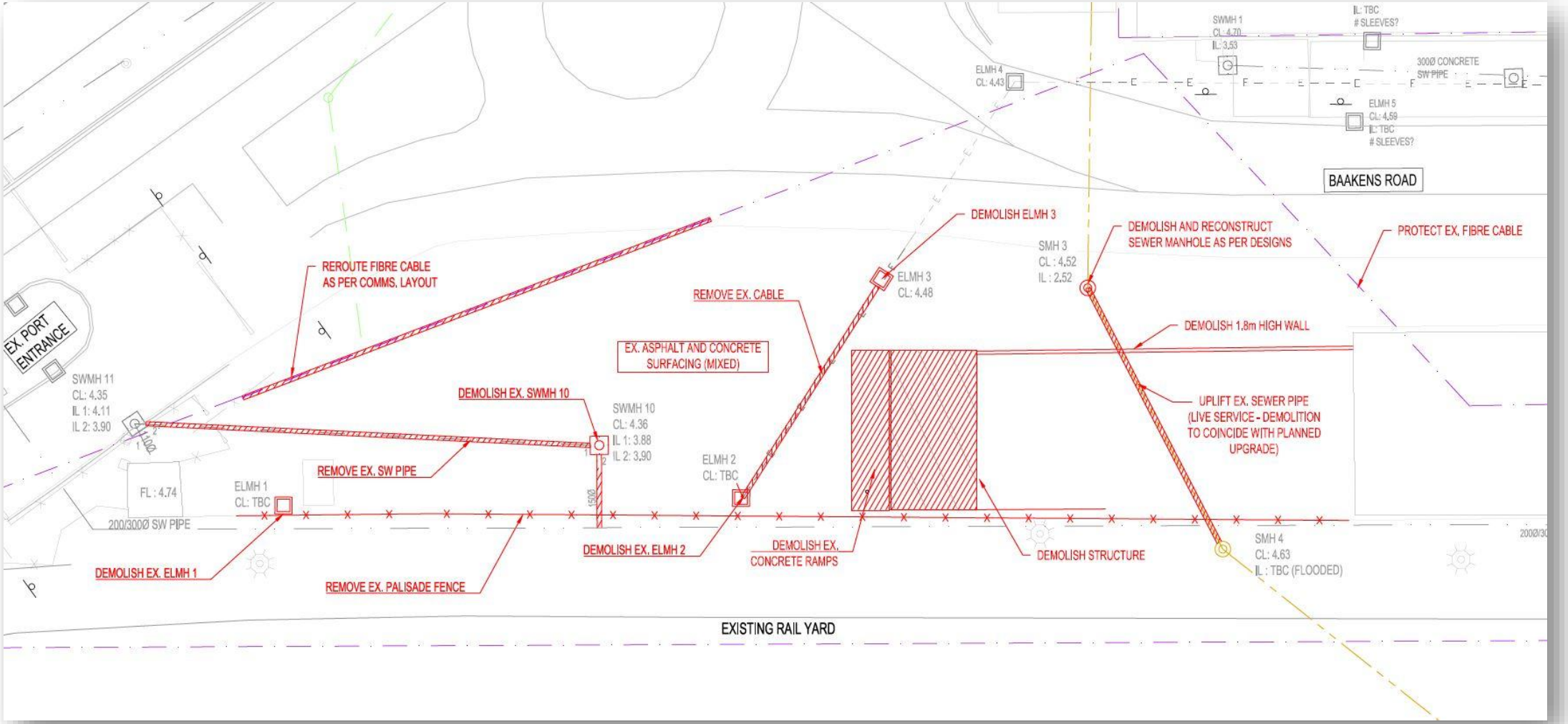
CIVIL – BROWN FIELD



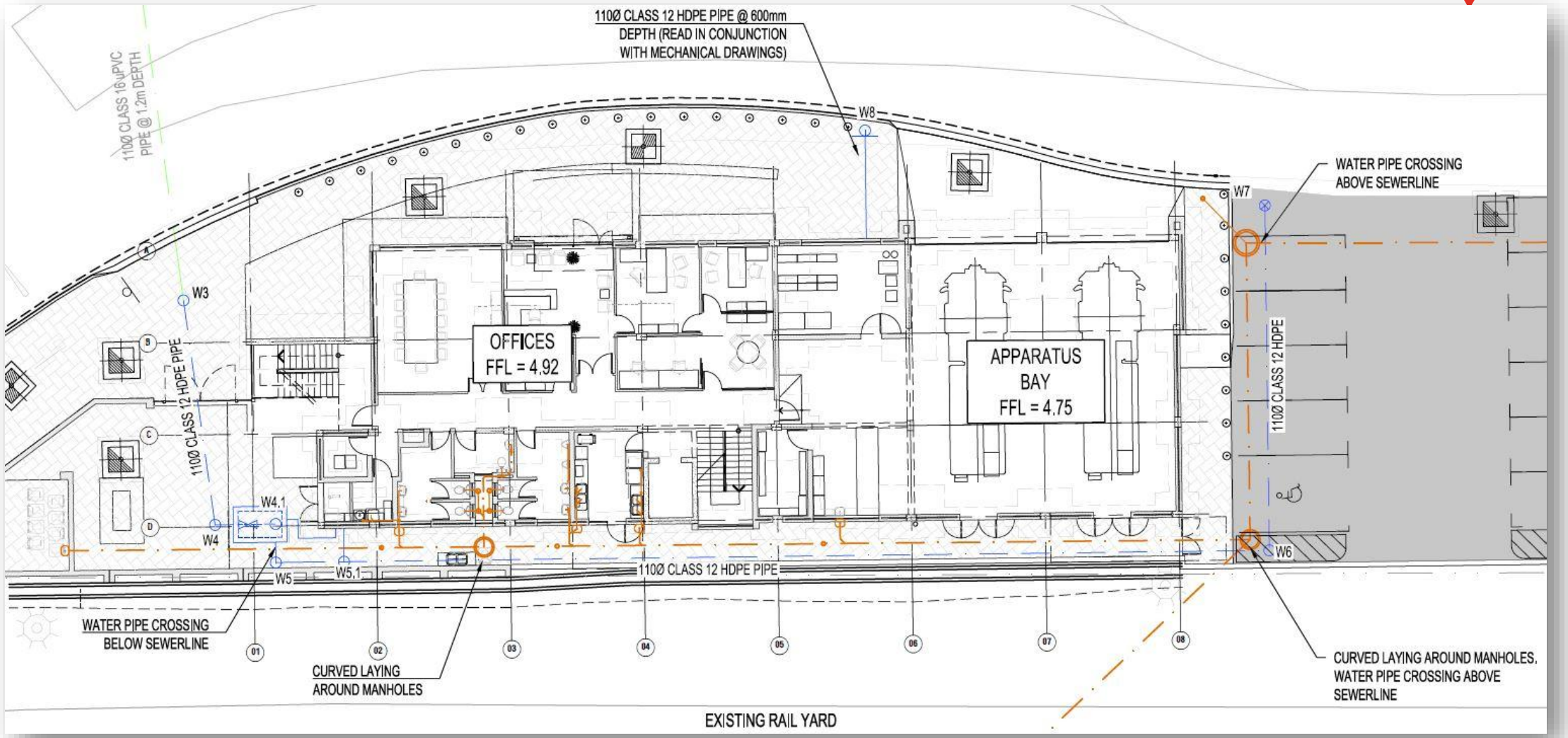
Core Requirements:

- Site Clearance
- Site Development
- Wet Services
- Fire Station Building
- Parking
- Stormwater Management
- Service Passage & Yard
- Standby Power Supply

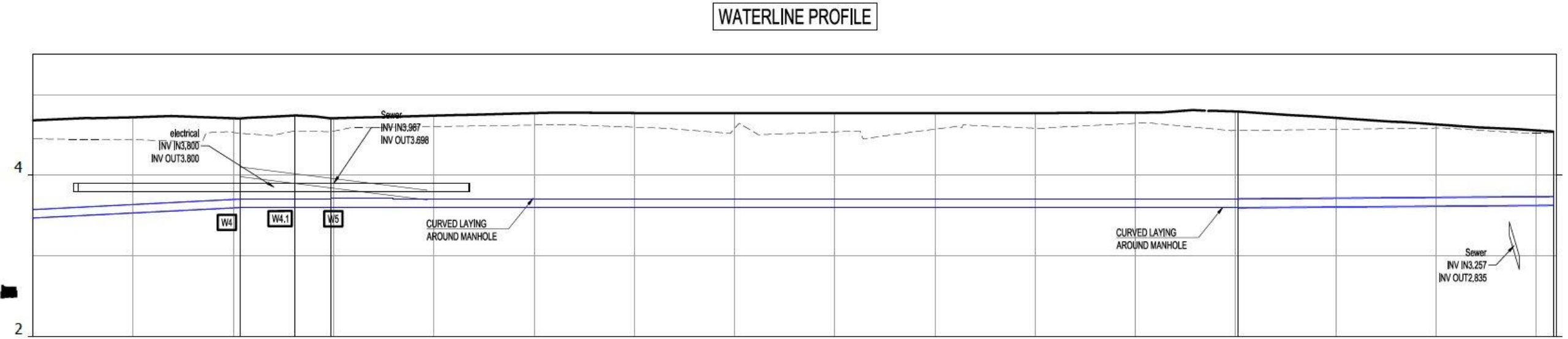
CIVIL – SITE CLEARANCE (DEMOLITIONS)



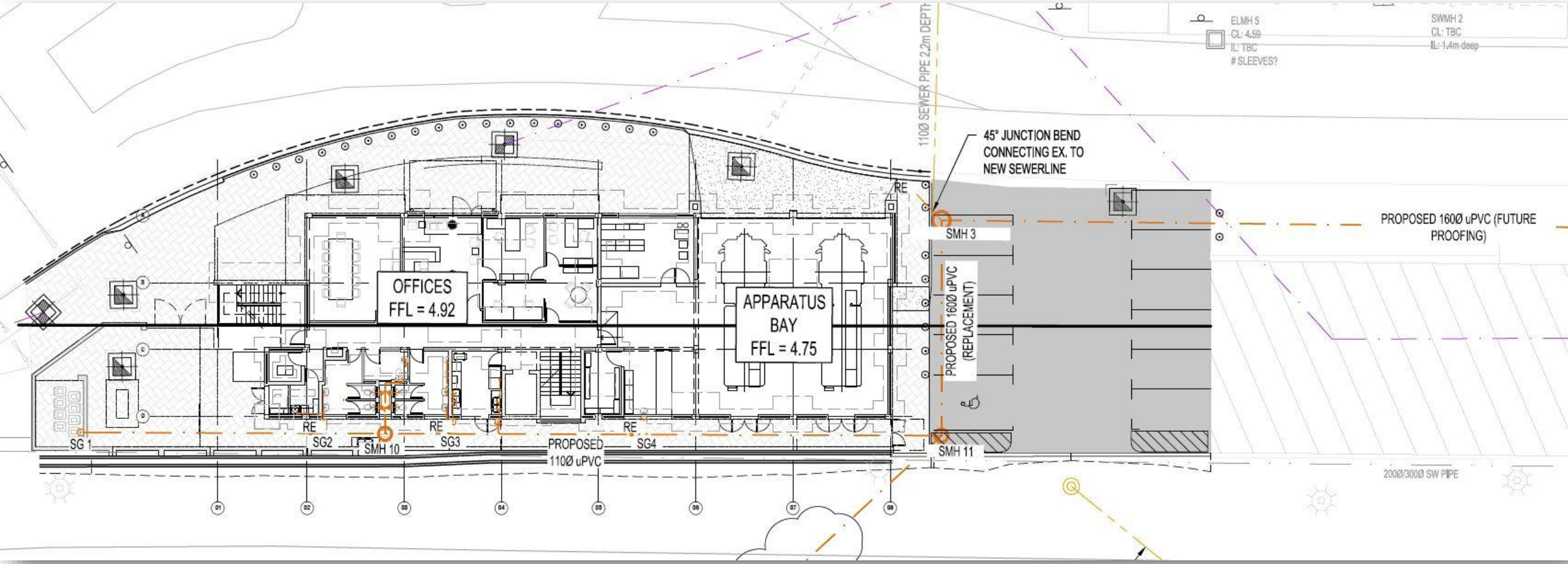
CIVIL – WET SERVICES (WATER)



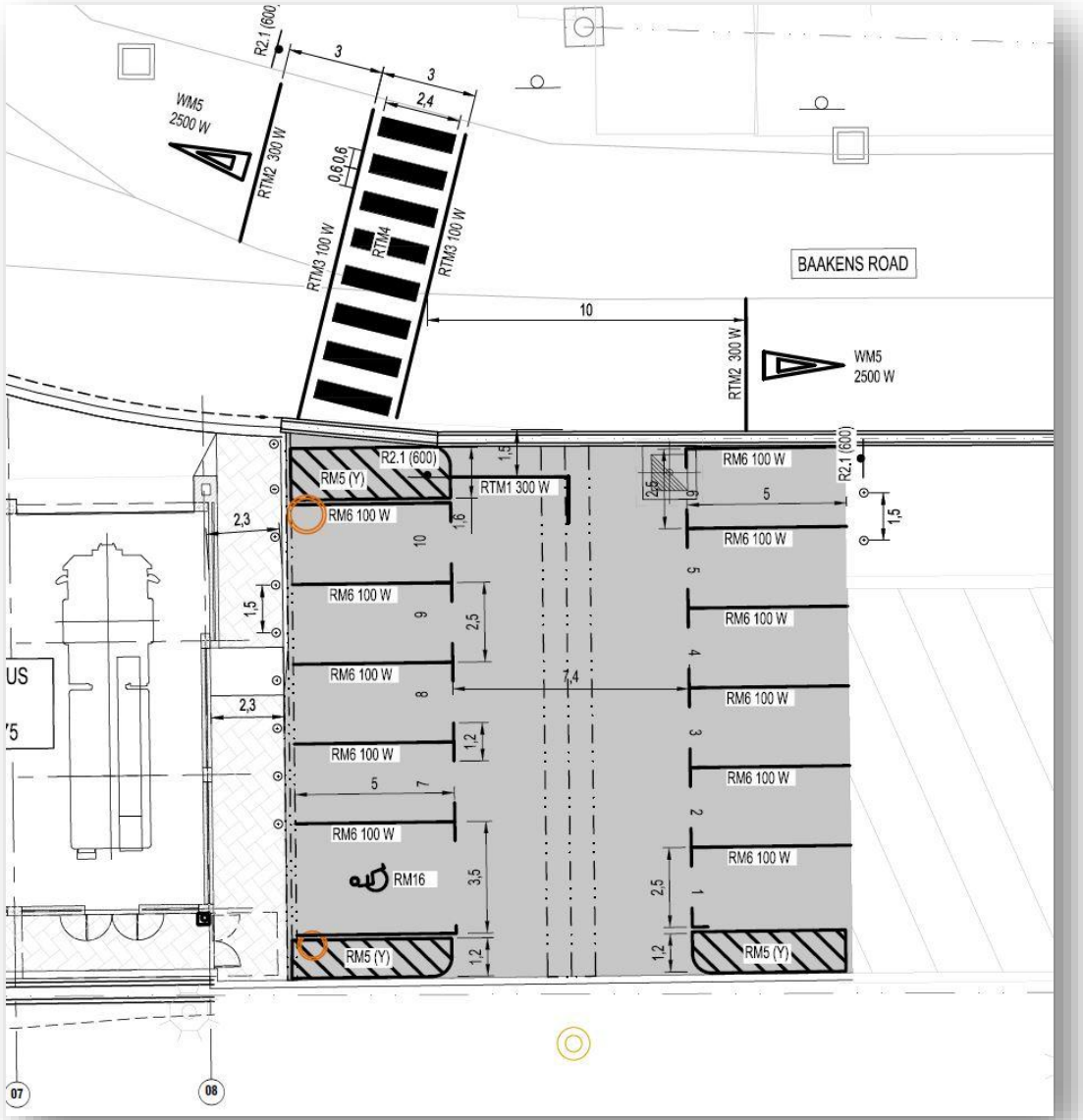
CIVIL – WET SERVICES (WATER)



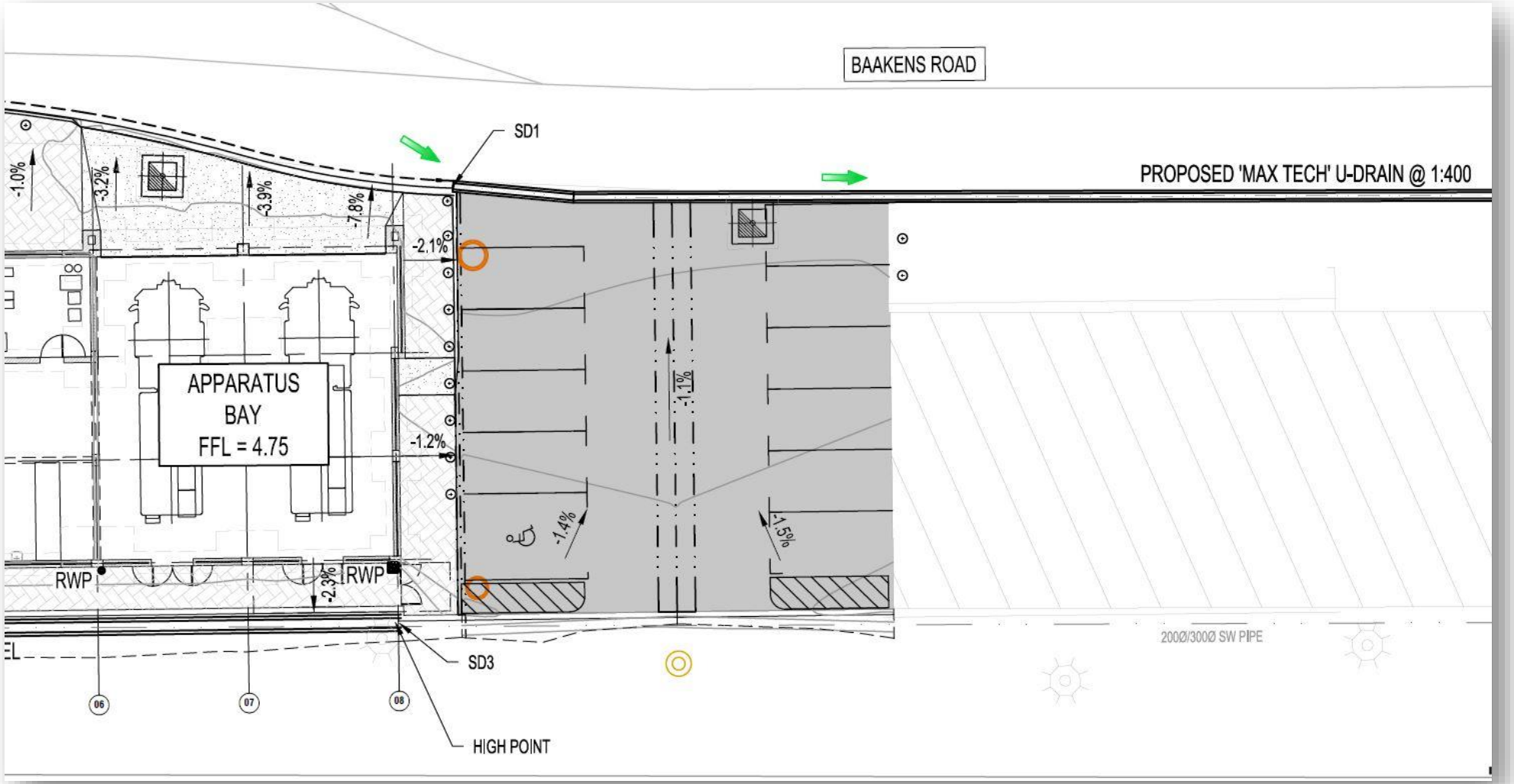
CIVIL – WET SERVICES (SEWER)



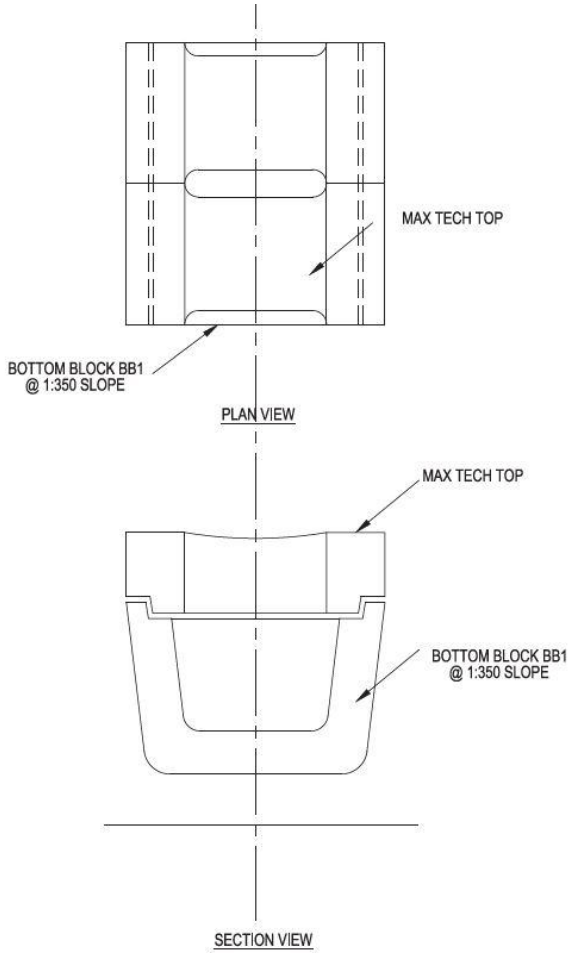
CIVIL – PARKING



CIVIL – STORMWATER MANAGEMENT

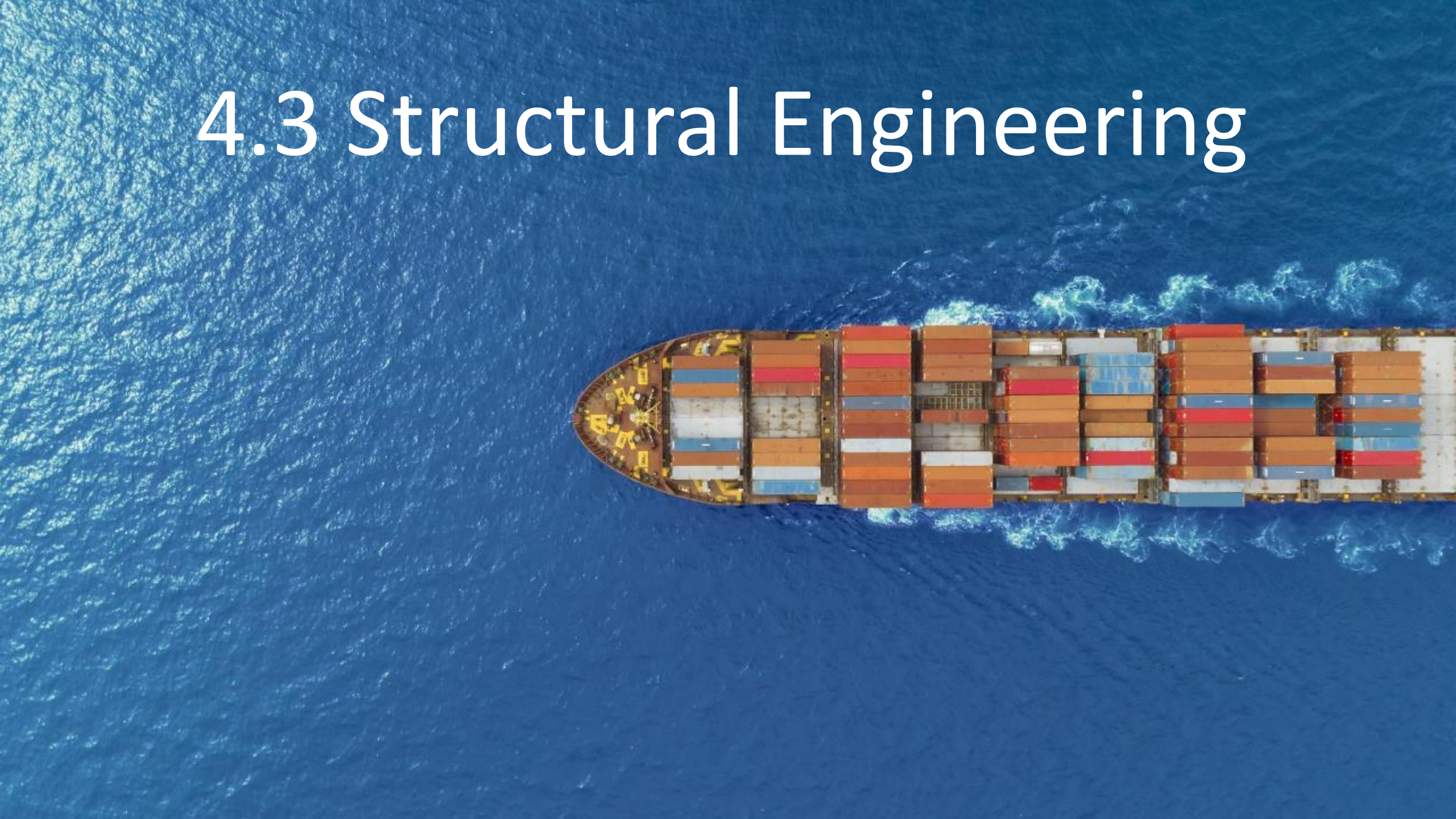


CIVIL – STORMWATER MANAGEMENT



DETAILS OF ROCLA BEANYBLOCK AND MAX TECH DRAINAGE SYSTEM (OR SIMILARLY APPROVED SYSTEM)

4.3 Structural Engineering



Introduction

BACKGROUND

- Fire Fighting Building
- 2 storey building

SCOPE OF WORK

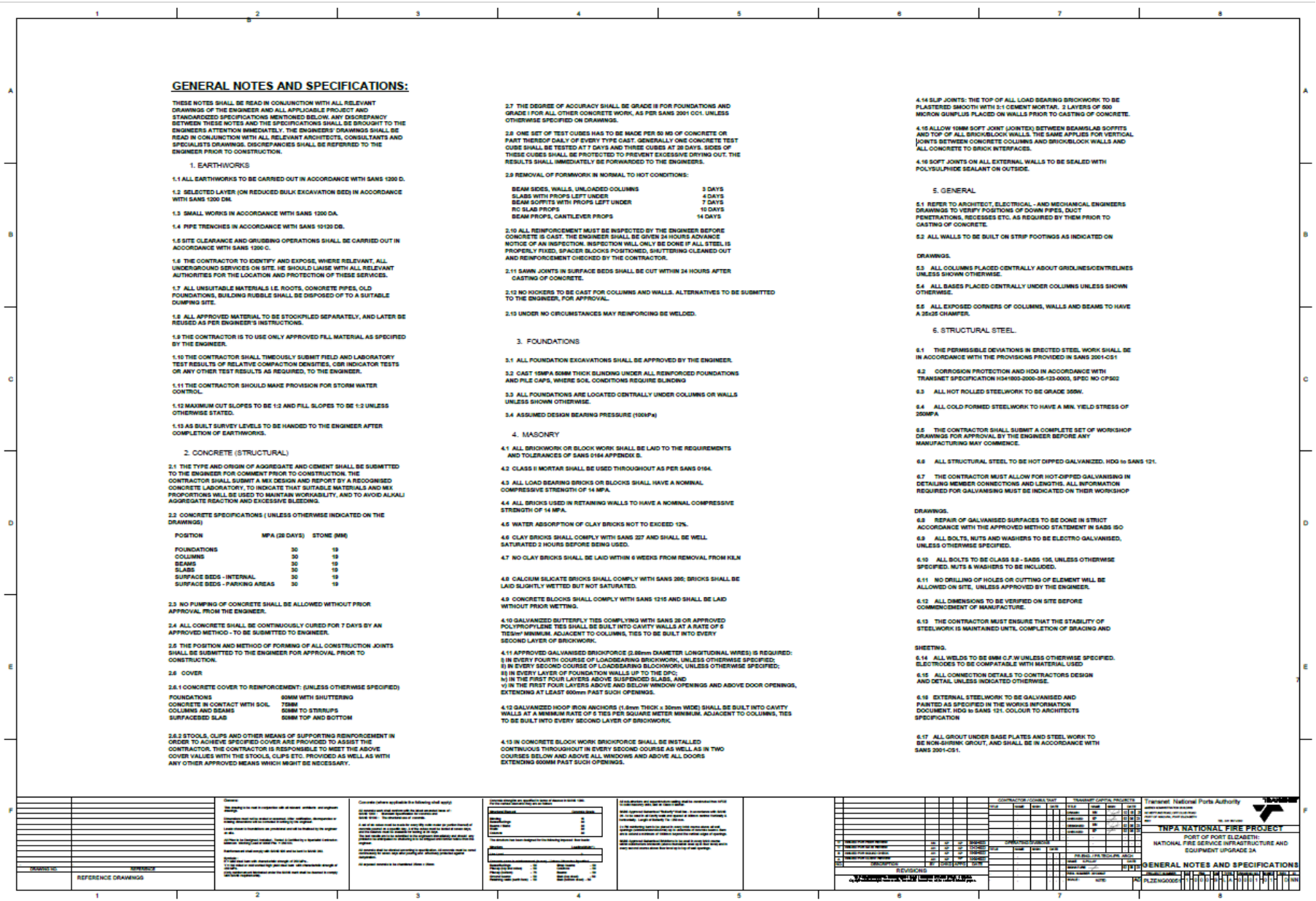
- Design of structural members
- Tender drawings
- Technical documentation

DRAWING REGISTER

Drawing number	Revision	Title
PLZENG00051-1-000-S-LA-0001-01	D	General Notes and Specifications
PLZENG00051-1-000-S-LA-1001-01	E	Foundation Layout and Details
PLZENG00051-1-000-S-LA-1001-02	E	Foundation Layout and Reinforcement Details
PLZENG00051-1-000-S-LA-1002-01	E	Building Sections and Elevations
PLZENG00051-1-000-S-LA-1002-02	E	Building Sections and Elevations
PLZENG00051-1-000-S-LA-1002-03	E	Building Sections and Elevations
PLZENG00051-1-000-S-LA-1003-01	E	Surfacebed Layout and Details
PLZENG00051-1-000-S-LA-1004-01	E	First Floor Layout and Details
PLZENG00051-1-000-S-LA-1005-01	E	Steel Roof Layout and Details
PLZENG00051-1-000-S-LA-1006-01	D	3D Views
PLZENG00051-1-000-S-LA-1007-01	A	HVAC and Generator Plinths
PLZENG00051-1-000-S-LA-1008-01	A	Entrance Cover Details
PLZENG00051-1-000-S-LA-1009-01	A	Carport Layout and Details
PLZENG00051-1-000-S-LA-1010-01	A	Steel Staircase Layout and Details
PLZENG00051-1-000-S-LA-1011-01	E	Boundary Wall Layout and Details
PLZENG00051-1-000-S-LA-1012-01	E	Lift Shaft Layout and Details
PLZENG00051-1-000-S-LA-1013-01	E	R.C Staircase Layout and Details

PLZENG00051-1-000-S-RD-1002-01	E	First Floor Slab Reinforcement Layout and Details
PLZENG00051-1-000-S-RD-1003-01	E	First Floor Beam Reinforcement Layout and Details
PLZENG00051-1-000-S-RD-1004-01	E	Column Layout and Reinforcement Detailing
PLZENG00051-1-000-S-RD-1004-02	E	Column Layout and Reinforcement Detailing
PLZENG00051-1-000-S-RD-1005-01	E	Ring Beam Reinforcement Layout and Details
PLZENG00051-1-000-S-RD-1007-01	E	Lift Shaft Reinforcement Layout and Details
PLZENG00051-1-000-S-RD-1007-02	E	Lift Shaft Reinforcement Details
PLZENG00051-1-000-S-RD-1008-01	E	R.C Staircase Reinforcement Layout

GENERAL NOTES AND SEPCIFICATIONS



GENERAL NOTES AND SPECIFICATIONS:

THESE NOTES SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS OF THE ENGINEER AND ALL APPLICABLE PROJECT AND STANDARDIZED SPECIFICATIONS MENTIONED BELOW. ANY DISCREPANCY BETWEEN THESE NOTES AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. THE ENGINEERS' DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, CONSULTANTS AND SPECIALISTS DRAWINGS. DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER PRIOR TO CONSTRUCTION.

1. EARTHWORKS

1.1 ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH SANS 1200 D.

1.2 SELECTED LAYER (ON REDUCED BULK EXCAVATION BED) IN ACCORDANCE WITH SANS 1200 DM.

1.3 SMALL WORKS IN ACCORDANCE WITH SANS 1200 DA.

1.4 PIPE TRENCHES IN ACCORDANCE WITH SANS 10120 DB.

1.5 SITE CLEARANCE AND GRUBBING OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH SANS 1200 C.

1.6 THE CONTRACTOR TO IDENTIFY AND EXPOSE, WHERE RELEVANT, ALL UNDERGROUND SERVICES ON SITE. HE SHOULD LIAISE WITH ALL RELEVANT AUTHORITIES FOR THE LOCATION AND PROTECTION OF THESE SERVICES.

1.7 ALL UNSUITABLE MATERIALS I.E. ROOTS, CONCRETE PIPES, OLD FOUNDATIONS, BUILDING RUBBLE SHALL BE DISPOSED OF TO A SUITABLE DUMPING SITE.

1.8 ALL APPROVED MATERIAL TO BE STOCKPILED SEPARATELY, AND LATER BE REUSED AS PER ENGINEER'S INSTRUCTIONS.

1.9 THE CONTRACTOR IS TO USE ONLY APPROVED FILL MATERIAL AS SPECIFIED BY THE ENGINEER.

1.10 THE CONTRACTOR SHALL TIMEOUSLY SUBMIT FIELD AND LABORATORY TEST RESULTS OF RELATIVE COMPACTION DENSITIES, CBR INDICATOR TESTS OR ANY OTHER TEST RESULTS AS REQUIRED, TO THE ENGINEER.

1.11 THE CONTRACTOR SHOULD MAKE PROVISION FOR STORM WATER CONTROL.

1.12 MAXIMUM CUT SLOPES TO BE 1:2 AND FILL SLOPES TO BE 1:2 UNLESS OTHERWISE STATED.

1.13 AS BUILT SURVEY LEVELS TO BE HANDED TO THE ENGINEER AFTER COMPLETION OF EARTHWORKS.

2. CONCRETE (STRUCTURAL)

2.1 THE TYPE AND ORIGIN OF AGGREGATE AND CEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A MIX DESIGN AND REPORT BY A RECOGNISED CONCRETE LABORATORY, TO INDICATE THAT SUITABLE MATERIALS AND MIX PROPORTIONS WILL BE USED TO MAINTAIN WORKABILITY, AND TO AVOID ALKALI AGGREGATE REACTION AND EXCESSIVE BLEEDING.

2.2 CONCRETE SPECIFICATIONS (UNLESS OTHERWISE INDICATED ON THE DRAWINGS)

POSITION	MPA (28 DAYS)	STONE (MM)
FOUNDATIONS	30	19
COLUMNS	30	19
BEAMS	30	19
SLABS	30	19
SURFACE BEDS - INTERNAL	30	19
SURFACE BEDS - PARKING AREAS	30	19

2.3 NO PUMPING OF CONCRETE SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

2.4 ALL CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS BY AN APPROVED METHOD - TO BE SUBMITTED TO ENGINEER.

2.5 THE POSITION AND METHOD OF FORMING OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

2.6 COVER

2.6.1 CONCRETE COVER TO REINFORCEMENT: (UNLESS OTHERWISE SPECIFIED)

FOUNDATIONS	60MM WITH SHUTTERING
CONCRETE IN CONTACT WITH SOIL	75MM
COLUMNS AND BEAMS	50MM TO STIRRUPS
SURFACEBED SLAB	50MM TOP AND BOTTOM

2.6.2 STOOLS, CLIPS AND OTHER MEANS OF SUPPORTING REINFORCEMENT IN ORDER TO ACHIEVE SPECIFIED COVER ARE PROVIDED TO ASSIST THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO MEET THE ABOVE COVER VALUES WITH THE STOOLS, CLIPS ETC. PROVIDED AS WELL AS WITH ANY OTHER APPROVED MEANS WHICH MIGHT BE NECESSARY.

2.7 THE DEGREE OF ACCURACY SHALL BE GRADE III FOR FOUNDATIONS AND GRADE I FOR ALL OTHER CONCRETE WORK, AS PER SANS 2001 CO1. UNLESS OTHERWISE SPECIFIED ON DRAWINGS.

2.8 ONE SET OF TEST CUBES HAS TO BE MADE PER 50 M3 OF CONCRETE OR PART THEREOF DAILY OF EVERY TYPE CAST. GENERALLY ONE CONCRETE TEST CUBE SHALL BE TESTED AT 7 DAYS AND THREE CUBES AT 28 DAYS. SIDES OF THESE CUBES SHALL BE PROTECTED TO PREVENT EXCESSIVE DRYING OUT. THE RESULTS SHALL IMMEDIATELY BE FORWARDED TO THE ENGINEERS.

2.9 REMOVAL OF FORMWORK IN NORMAL TO HOT CONDITIONS:

BEAM SIDES, WALLS, UNLOADED COLUMNS	3 DAYS
SLABS WITH PROPS LEFT UNDER	4 DAYS
BEAM SOFFITS WITH PROPS LEFT UNDER	7 DAYS
RC SLAB PROPS	10 DAYS
BEAM PROPS, CANTILEVER PROPS	14 DAYS

2.10 ALL REINFORCEMENT MUST BE INSPECTED BY THE ENGINEER BEFORE CONCRETE IS CAST. THE ENGINEER SHALL BE GIVEN 24 HOURS ADVANCE NOTICE OF AN INSPECTION. INSPECTION WILL ONLY BE DONE IF ALL STEEL IS PROPERLY FIXED, SPACER BLOCKS POSITIONED, SHUTTERING CLEANED OUT AND REINFORCEMENT CHECKED BY THE CONTRACTOR.

2.11 SAWN JOINTS IN SURFACE BEDS SHALL BE CUT WITHIN 24 HOURS AFTER CASTING OF CONCRETE.

2.12 NO KICKERS TO BE CAST FOR COLUMNS AND WALLS. ALTERNATIVES TO BE SUBMITTED TO THE ENGINEER, FOR APPROVAL.

2.13 UNDER NO CIRCUMSTANCES MAY REINFORCING BE WELDED.

3. FOUNDATIONS

3.1 ALL FOUNDATION EXCAVATIONS SHALL BE APPROVED BY THE ENGINEER.

3.2 CAST 15MPA 50MM THICK BLINDING UNDER ALL REINFORCED FOUNDATIONS AND PILE CAPS, WHERE SOIL CONDITIONS REQUIRE BLINDING

3.3 ALL FOUNDATIONS ARE LOCATED CENTRALLY UNDER COLUMNS OR WALLS UNLESS SHOWN OTHERWISE.

3.4 ASSUMED DESIGN BEARING PRESSURE (100kPa)

4. MASONRY

4.1 ALL BRICKWORK OR BLOCK WORK SHALL BE LAID TO THE REQUIREMENTS AND TOLERANCES OF SANS 0164 APPENDIX B.

4.2 CLASS II MORTAR SHALL BE USED THROUGHOUT AS PER SANS 0164.

4.3 ALL LOAD BEARING BRICKS OR BLOCKS SHALL HAVE A NOMINAL COMPRESSIVE STRENGTH OF 14 MPA.

4.4 ALL BRICKS USED IN RETAINING WALLS TO HAVE A NOMINAL COMPRESSIVE STRENGTH OF 14 MPA.

4.5 WATER ABSORPTION OF CLAY BRICKS NOT TO EXCEED 12%.

4.6 CLAY BRICKS SHALL COMPLY WITH SANS 227 AND SHALL BE WELL SATURATED 2 HOURS BEFORE BEING USED.

4.7 NO CLAY BRICKS SHALL BE LAID WITHIN 6 WEEKS FROM REMOVAL FROM KILN

4.8 CALCIUM SILICATE BRICKS SHALL COMPLY WITH SANS 205; BRICKS SHALL BE LAID SLIGHTLY WETTED BUT NOT SATURATED.

4.9 CONCRETE BLOCKS SHALL COMPLY WITH SANS 1215 AND SHALL BE LAID WITHOUT PRIOR WETTING.

4.10 GALVANIZED BUTTERFLY TIES COMPLYING WITH SANS 28 OR APPROVED POLYPROPYLENE TIES SHALL BE BUILT INTO CAVITY WALLS AT A RATE OF 5 TIES/m² MINIMUM. ADJACENT TO COLUMNS, TIES TO BE BUILT INTO EVERY SECOND LAYER OF BRICKWORK.

4.11 APPROVED GALVANISED BRICKFORCE (2.66mm DIAMETER LONGITUDINAL WIRES) IS REQUIRED:
i) IN EVERY FOURTH COURSE OF LOADBEARING BRICKWORK, UNLESS OTHERWISE SPECIFIED;
ii) IN EVERY SECOND COURSE OF LOADBEARING BLOCKWORK, UNLESS OTHERWISE SPECIFIED;
iii) IN EVERY LAYER OF FOUNDATION WALLS UP TO THE DPC;
iv) IN THE FIRST FOUR LAYERS ABOVE SUSPENDED SLABS, AND
v) IN THE FIRST FOUR LAYERS ABOVE AND BELOW WINDOW OPENINGS AND ABOVE DOOR OPENINGS, EXTENDING AT LEAST 600mm PAST SUCH OPENINGS.

4.12 GALVANIZED HOOP IRON ANCHORS (1.6mm THICK x 30mm WIDE) SHALL BE BUILT INTO CAVITY WALLS AT A MINIMUM RATE OF 5 TIES PER SQUARE METER MINIMUM. ADJACENT TO COLUMNS, TIES TO BE BUILT INTO EVERY SECOND LAYER OF BRICKWORK.

4.13 IN CONCRETE BLOCK WORK BRICKFORCE SHALL BE INSTALLED CONTINUOUS THROUGHOUT IN EVERY SECOND COURSE AS WELL AS IN TWO COURSES BELOW AND ABOVE ALL WINDOWS AND ABOVE ALL DOORS EXTENDING 600MM PAST SUCH OPENINGS.

4.14 SLIP JOINTS: THE TOP OF ALL LOAD BEARING BRICKWORK TO BE PLASTERED SMOOTH WITH 3:1 CEMENT MORTAR. 2 LAYERS OF 500 MICRON GUNPLUS PLACED ON WALLS PRIOR TO CASTING OF CONCRETE.

4.15 ALLOW 10MM SOFT JOINT (JOINTEX) BETWEEN BEAM/SLAB SOFFITS AND TOP OF ALL BRICK/BLOCK WALLS. THE SAME APPLIES FOR VERTICAL JOINTS BETWEEN CONCRETE COLUMNS AND BRICK/BLOCK WALLS AND ALL CONCRETE TO BRICK INTERFACES.

4.16 SOFT JOINTS ON ALL EXTERNAL WALLS TO BE SEALED WITH POLYSULPHIDE SEALANT ON OUTSIDE.

5. GENERAL

5.1 REFER TO ARCHITECT, ELECTRICAL - AND MECHANICAL ENGINEERS DRAWINGS TO VERIFY POSITIONS OF DOWN PIPES, DUCT PENETRATIONS, RECESSES ETC. AS REQUIRED BY THEM PRIOR TO CASTING OF CONCRETE.

5.2 ALL WALLS TO BE BUILT ON STRIP FOOTINGS AS INDICATED ON DRAWINGS.

5.3 ALL COLUMNS PLACED CENTRALLY ABOUT GRIDLINES/CENTRELINES UNLESS SHOWN OTHERWISE.

5.4 ALL BASES PLACED CENTRALLY UNDER COLUMNS UNLESS SHOWN OTHERWISE.

5.5 ALL EXPOSED CORNERS OF COLUMNS, WALLS AND BEAMS TO HAVE A 25x25 CHAMFER.

6. STRUCTURAL STEEL.

6.1 THE PERMISSIBLE DEVIATIONS IN ERECTED STEEL WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS PROVIDED IN SANS 2001-CS1

6.2 CORROSION PROTECTION AND HDG IN ACCORDANCE WITH TRANSNET SPECIFICATION H341803-2000-36-123-0003, SPEC NO CPS02

6.3 ALL HOT ROLLED STEELWORK TO BE GRADE 350W.

6.4 ALL COLD FORMED STEELWORK TO HAVE A MIN. YIELD STRESS OF 250MPA

6.5 THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF WORKSHOP DRAWINGS FOR APPROVAL BY THE ENGINEER BEFORE ANY MANUFACTURING MAY COMMENCE.

6.6 ALL STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED. HDG to SANS 121.

6.7 THE CONTRACTOR MUST ALLOW FOR HOT-DIPPED GALVANISING IN DETAILING MEMBER CONNECTIONS AND LENGTHS. ALL INFORMATION REQUIRED FOR GALVANISING MUST BE INDICATED ON THEIR WORKSHOP DRAWINGS.

6.8 REPAIR OF GALVANISED SURFACES TO BE DONE IN STRICT ACCORDANCE WITH THE APPROVED METHOD STATEMENT IN SABS ISO

6.9 ALL BOLTS, NUTS AND WASHERS TO BE ELECTRO GALVANISED, UNLESS OTHERWISE SPECIFIED.

6.10 ALL BOLTS TO BE CLASS 8.8 - SABS 135, UNLESS OTHERWISE SPECIFIED. NUTS & WASHERS TO BE INCLUDED.

6.11 NO DRILLING OF HOLES OR CUTTING OF ELEMENT WILL BE ALLOWED ON SITE, UNLESS APPROVED BY THE ENGINEER.

6.12 ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCEMENT OF MANUFACTURE.

6.13 THE CONTRACTOR MUST ENSURE THAT THE STABILITY OF STEELWORK IS MAINTAINED UNTIL COMPLETION OF BRACING AND SHEETING.

6.14 ALL WELDS TO BE 6MM C.F.W UNLESS OTHERWISE SPECIFIED. ELECTRODES TO BE COMPATABLE WITH MATERIAL USED

6.15 ALL CONNECTION DETAILS TO CONTRACTORS DESIGN AND DETAIL UNLESS INDICATED OTHERWISE.

6.16 EXTERNAL STEELWORK TO BE GALVANISED AND PAINTED AS SPECIFIED IN THE WORKS INFORMATION DOCUMENT. HDG to SANS 121. COLOUR TO ARCHITECTS SPECIFICATION

6.17 ALL GROUT UNDER BASE PLATES AND STEEL WORK TO BE NON-SHRINK GROUT, AND SHALL BE IN ACCORDANCE WITH SANS 2001-CS1.

REFERENCE DRAWINGS

REVISIONS

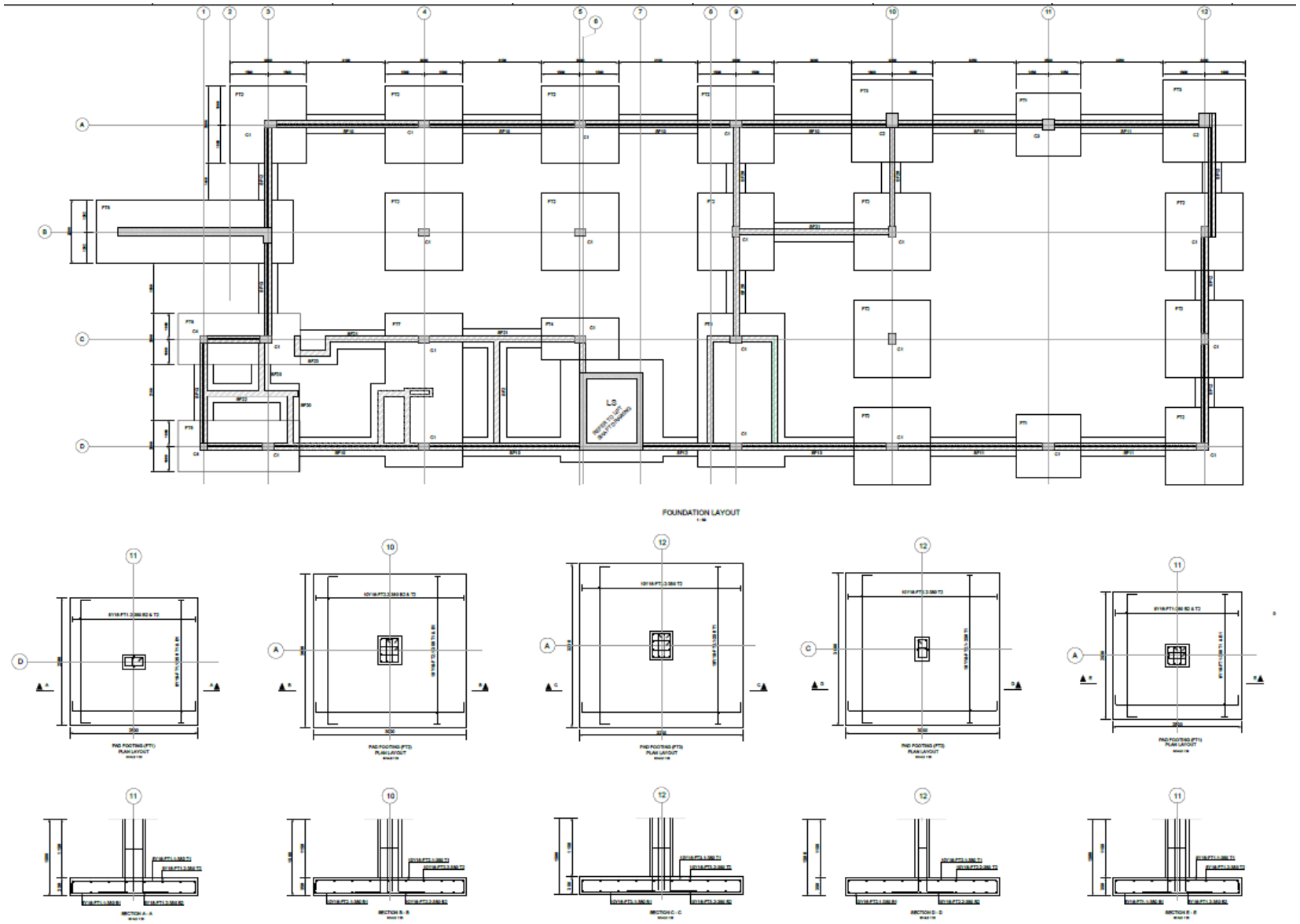
Transnet National Ports Authority

TNPA NATIONAL FIRE PROJECT

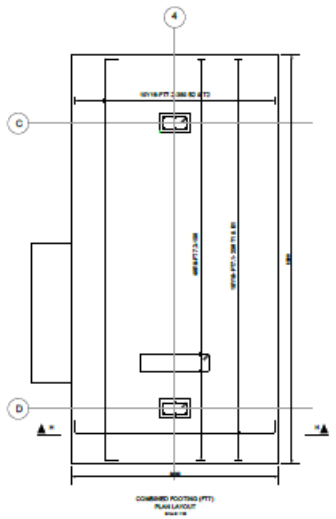
PORT OF PORT ELIZABETH:
NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT UPGRADE 2A

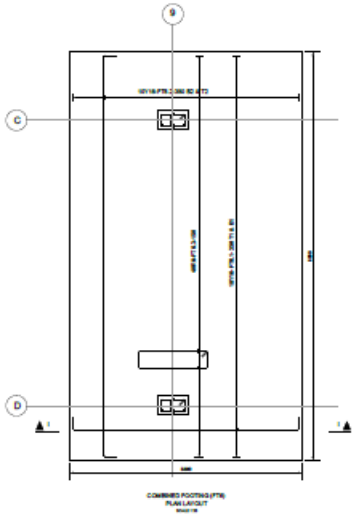
GENERAL NOTES AND SPECIFICATIONS

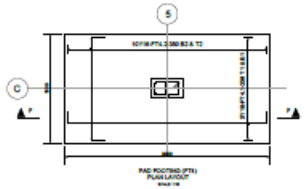
FOUNDATION LAYOUT AND DETAILS

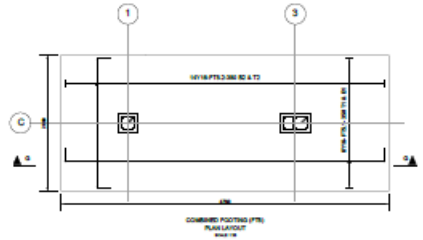


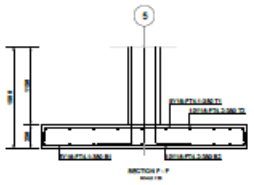
FOUNDATION LAYOUT AND REINFORCEMENT

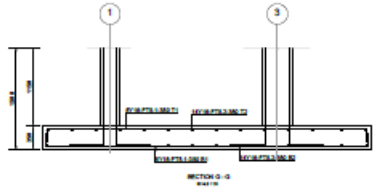


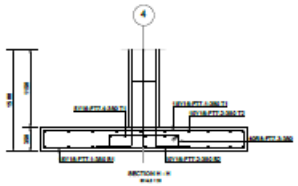


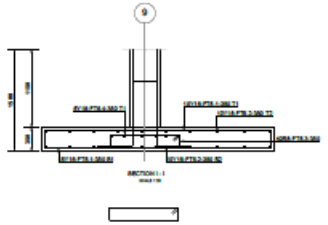


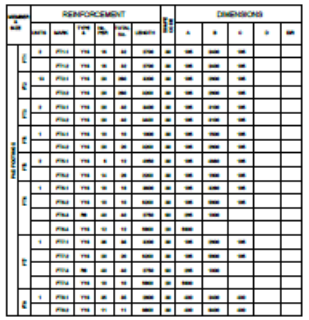


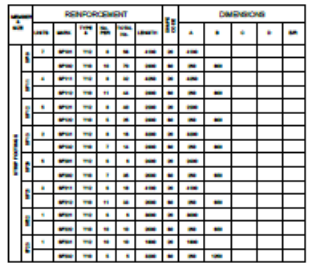


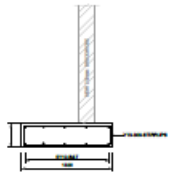




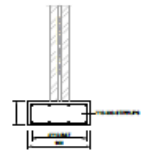




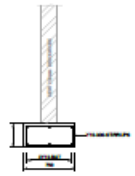




TYPICAL SECTION THROUGH STRIP FOOTINGS FOR 230 WALLS SF23

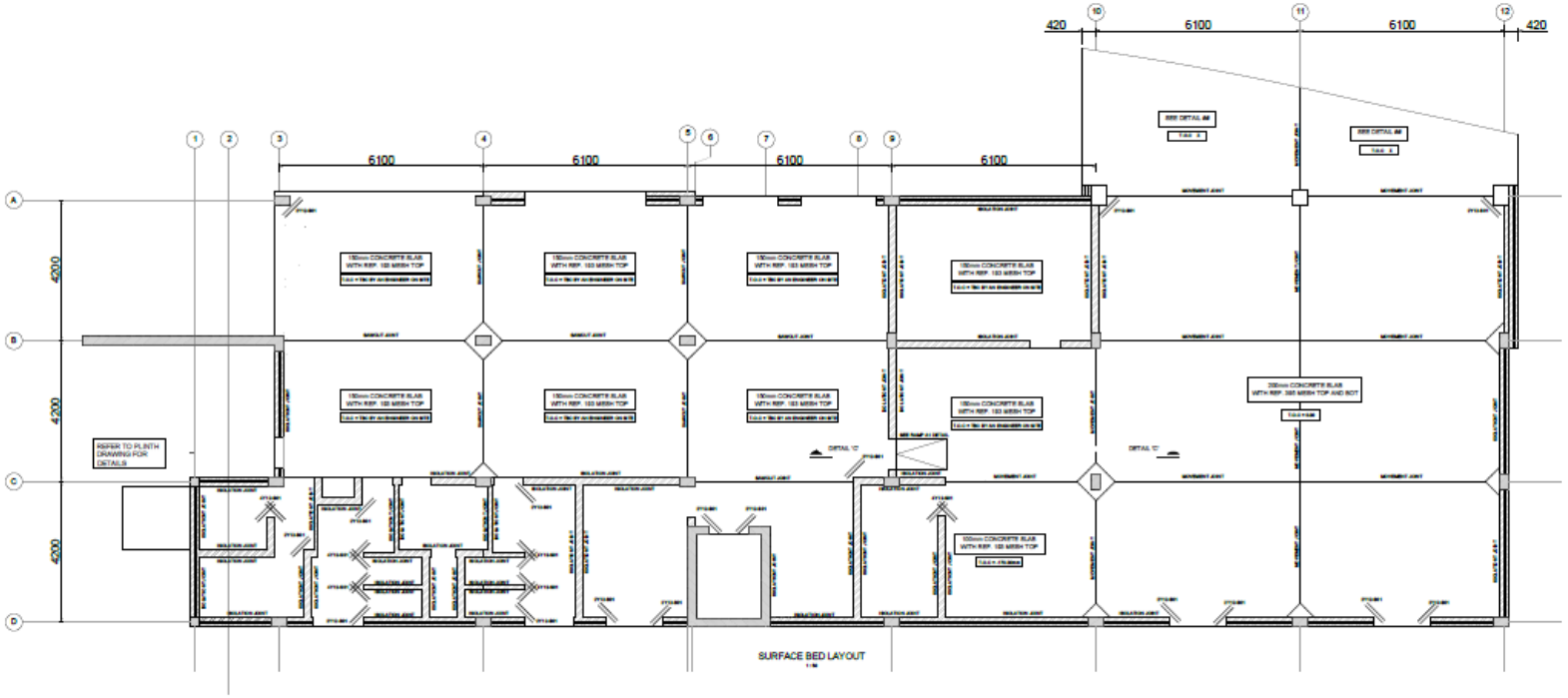


TYPICAL SECTION THROUGH STRIP FOOTINGS FOR 230 WALLS SF10,11,12,13

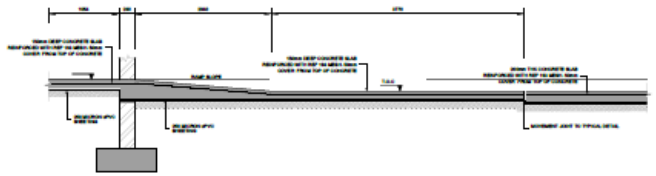


TYPICAL SECTION THROUGH STRIP FOOTINGS FOR 230 WALLS SF20,21,22

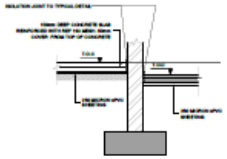
GROUND FLOOR LAYOUT AND DETAILS



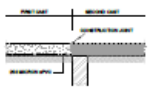
SURFACE BED LAYOUT



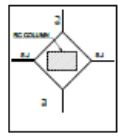
TYPICAL SLAB TRANSITIONING DETAIL 'C'



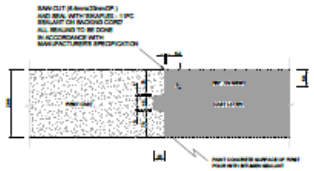
TYPICAL STRIP FOOTING DETAIL



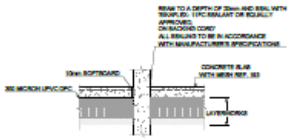
TYPICAL JOINT DETAIL AT INTERNAL DOOR POINTS



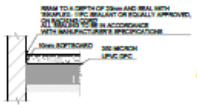
PLAN SHOWING TYPICAL JOINT DETAIL AROUND COLUMN AND WALL



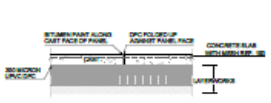
KEYED JOINT DETAIL FOR CONCRETE SLAB



TYPICAL COLUMN ISOLATION JOINT DETAIL



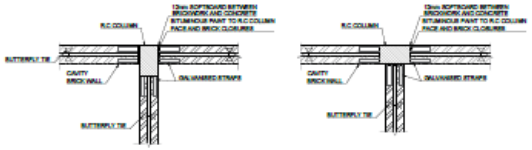
TYPICAL ISOLATION JOINT DETAIL (I.J)



TYPICAL MOVEMENT JOINT DETAIL (M.J)

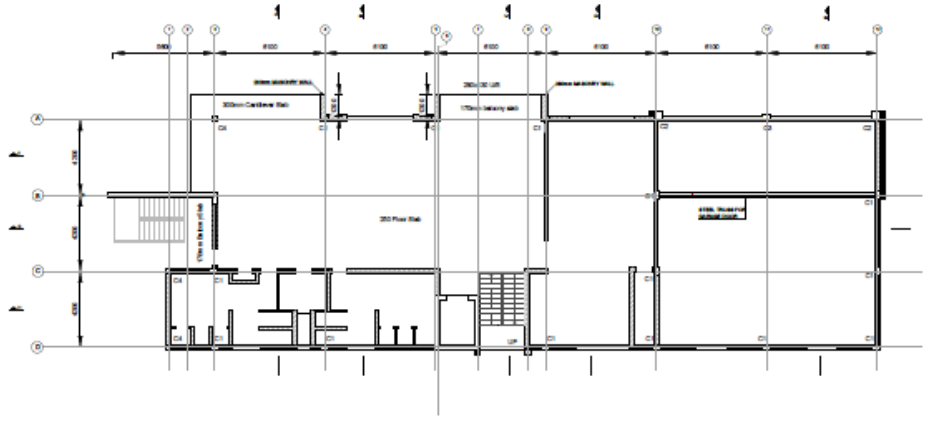
TYPICAL LAYERWORKS DETAIL BELOW SURFACE BED

TYPICAL (150 THK SLAB) SAW CUT DETAIL

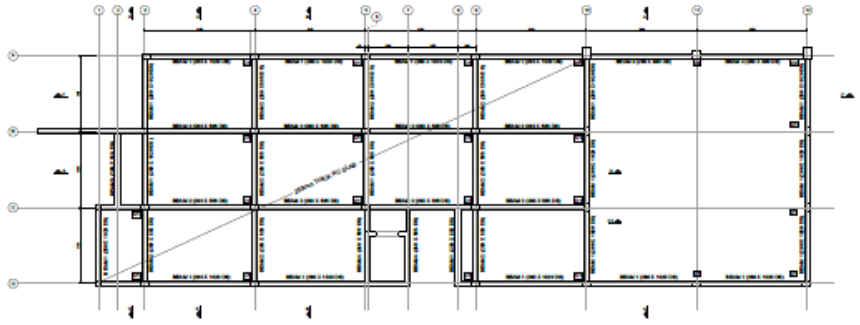


TYPICAL R.C COLUMN / BRICK WALL JUNCTION WITH VERTICAL JOINTS

FIRST FLOOR LAYOUT

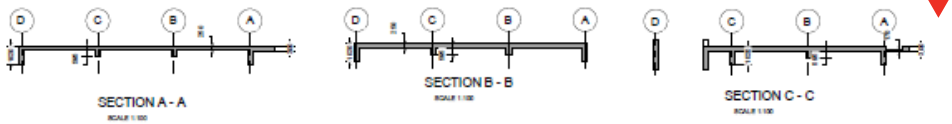


FIRST FLOOR LAYOUT
SCALE 1:100

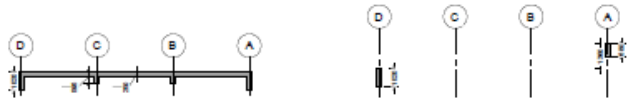


FIRST FLOOR BEAM LAYOUT

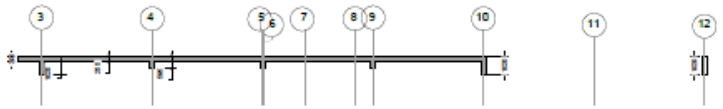
Column Sizes		
Type	Size	No of
C1	450x250	14
C2	590x450	3
C3	450x450	1
C4	250x250	3



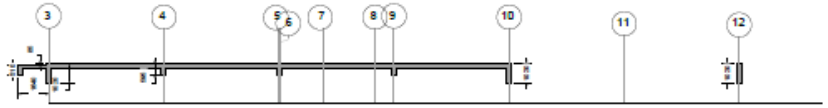
SECTION A - A
SECTION B - B
SECTION C - C



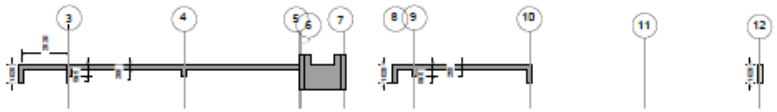
SECTION D - D
SECTION E - E



SECTION F- F

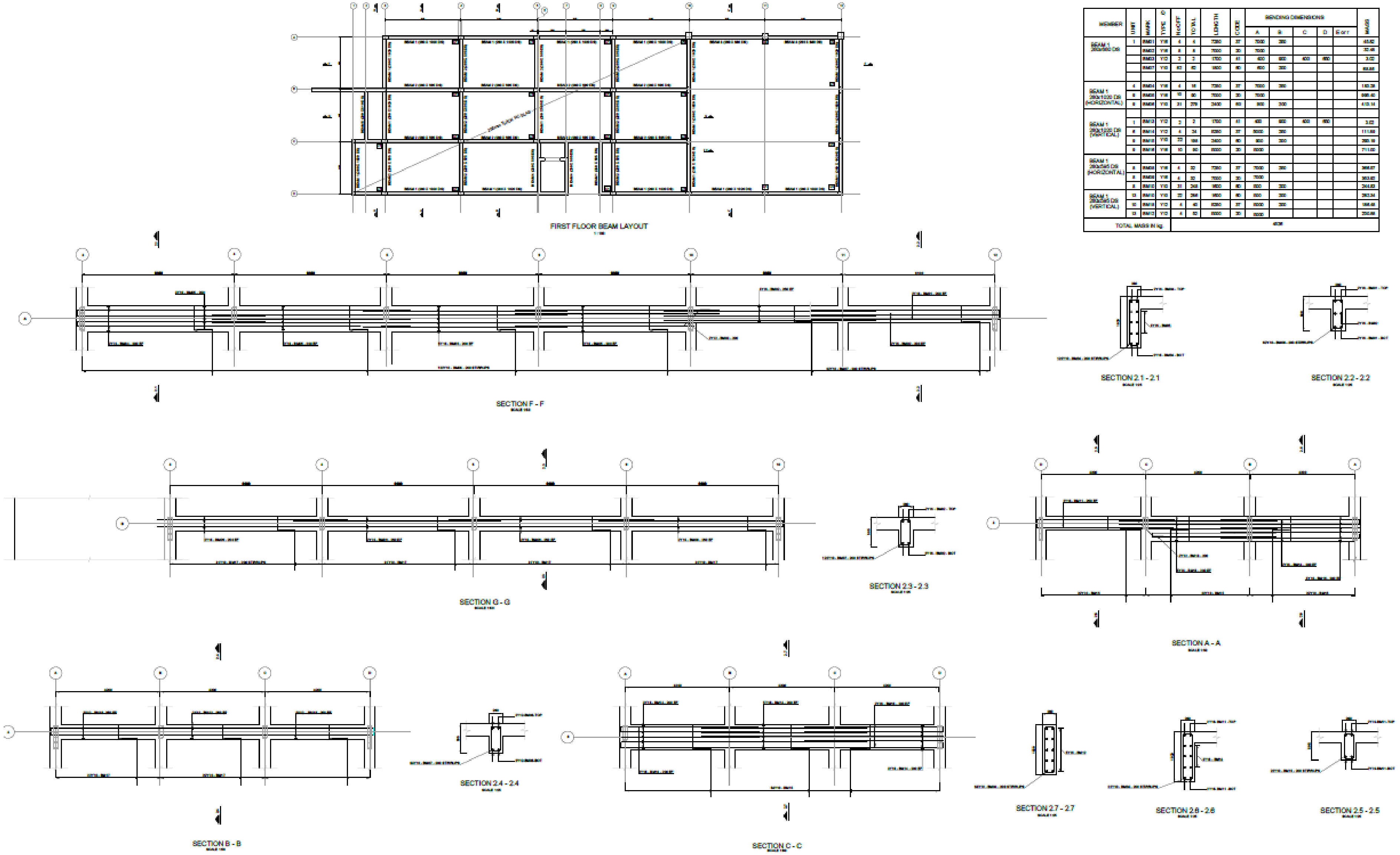


SECTION G - G



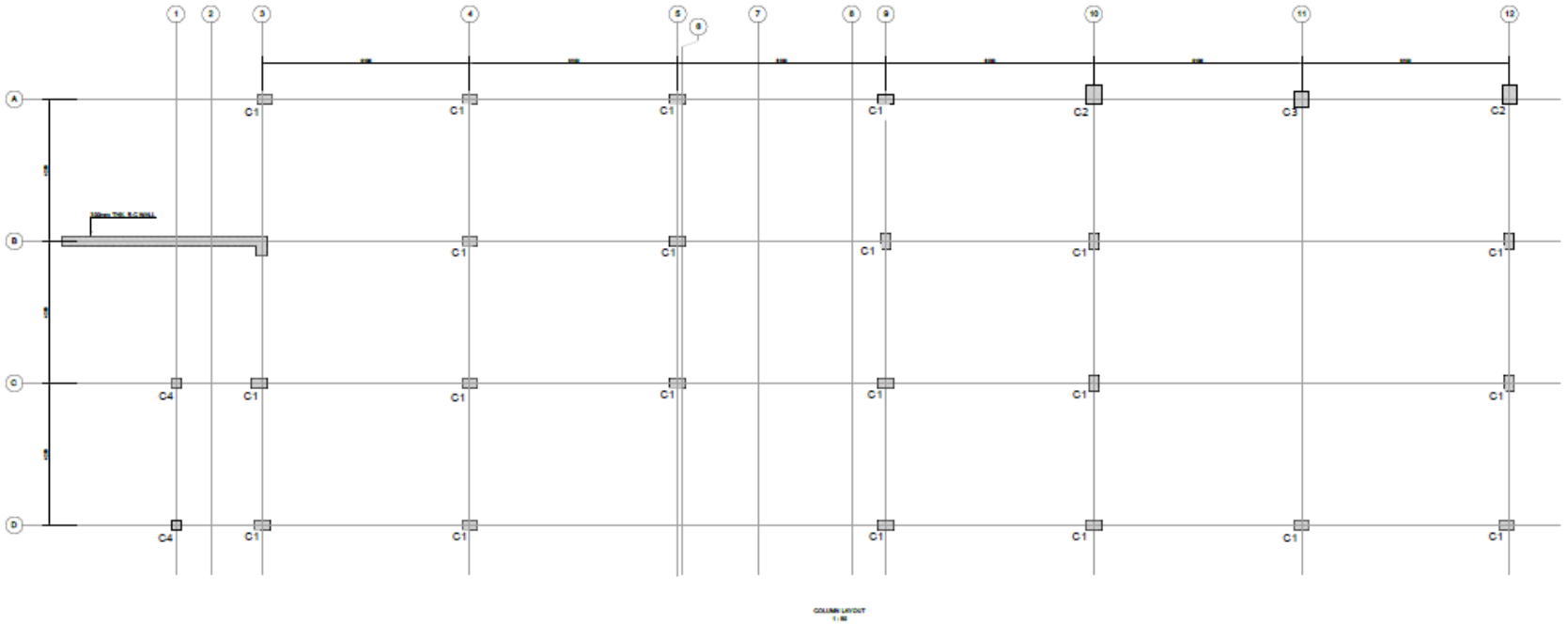
SECTION H - H

FIRST FLOOR LAYOUT BEAM REINFORCEMENT

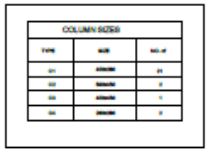


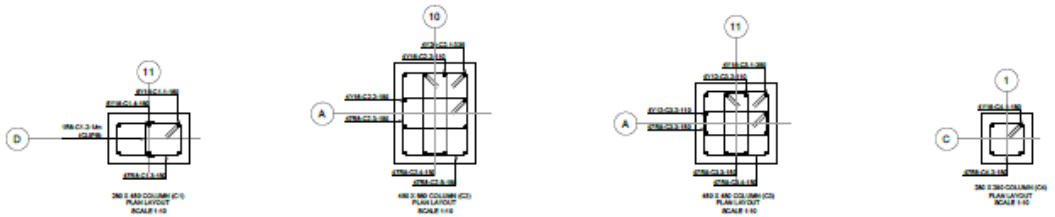
MEMBER	UNIT	MARK	TYPE Ø	N/OFF	TOTAL	LENGTH	CODE	BENDING DIMENSIONS A	B	C	D	E or r	MASS
BEAM 1 250x500 D6	1	BM01	Y16	4	4	7350	37	7000	300				46.82
		BM02	Y16	8	8	7000	20	7000					32.48
		BM03	Y10	2	2	1700	41	400	600	400	650		3.02
		BM07	Y10	60	60	1600	60	400	300				88.88
BEAM 1 250x1020 D6 (HORIZONTAL)	4	BM04	Y16	4	16	7350	37	7000	300				183.38
	8	BM05	Y16	10	80	7000	20	7000					885.40
	8	BM06	Y10	31	279	2400	60	900	300				413.14
BEAM 1 250x1020 D6 (VERTICAL)													
	1	BM13	Y10	2	2	1700	41	400	600	400	650		3.02
	6	BM14	Y10	4	24	8350	37	8000	300				111.88
	6	BM15	Y10	22	186	2400	60	800	300				280.16
	6	BM16	Y16	10	80	8000	20	8000					711.00
BEAM 1 250x585 D6 (HORIZONTAL)													
	8	BM08	Y16	4	32	7350	37	7000	300				368.07
	8	BM09	Y16	4	32	7000	20	7000					363.83
	8	BM10	Y10	31	248	1600	60	600	300				244.83
BEAM 1 250x585 D6 (VERTICAL)	12	BM10	Y10	22	264	1600	60	600	300				263.34
	10	BM11	Y10	4	40	8350	37	8000	300				188.48
	13	BM12	Y10	4	52	8000	20	8000					230.88
TOTAL MASS IN kg.			4526										

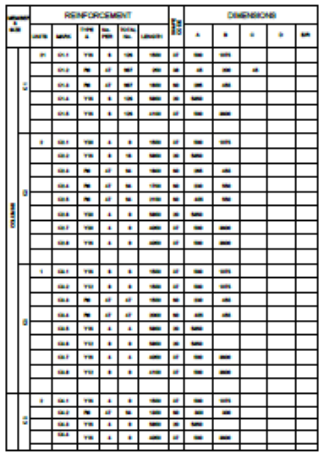
CONCRETE COLUMN LAYOUT AND DETAILS



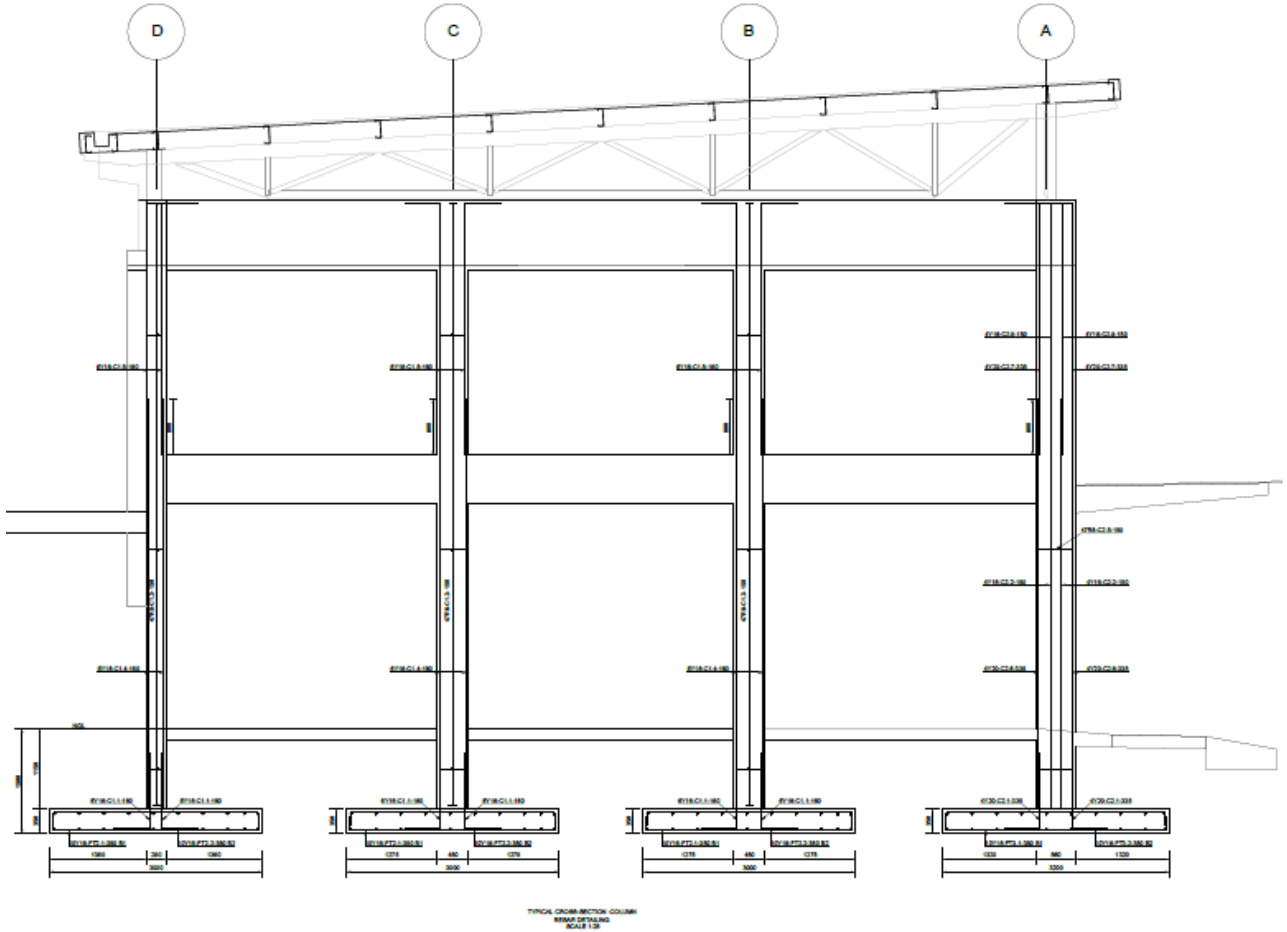
COLUMN LAYOUT
1 : 80

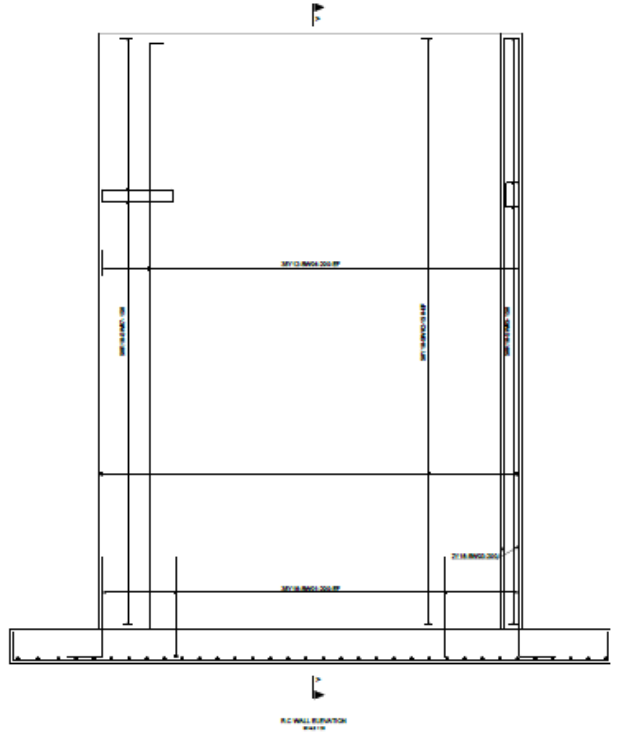


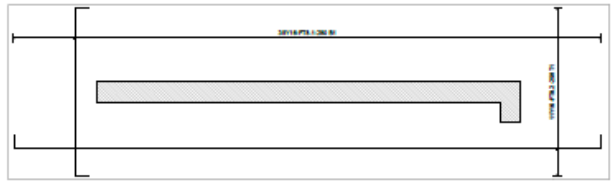


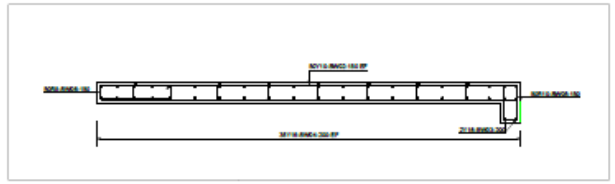


CONCRETE COLUMN LAYOUT AND DETAILS

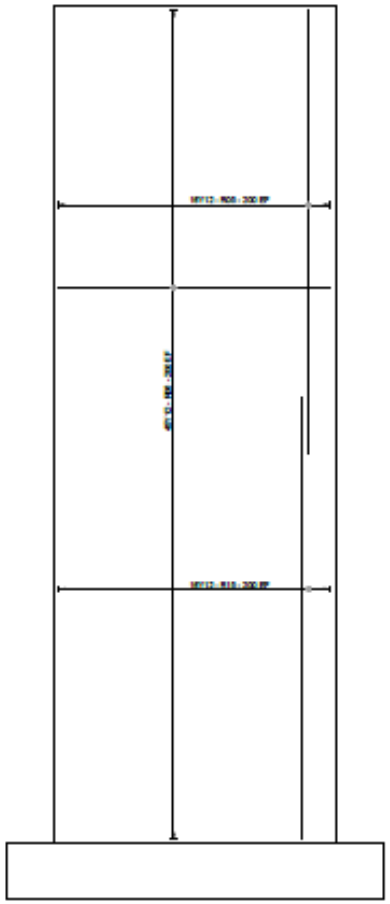




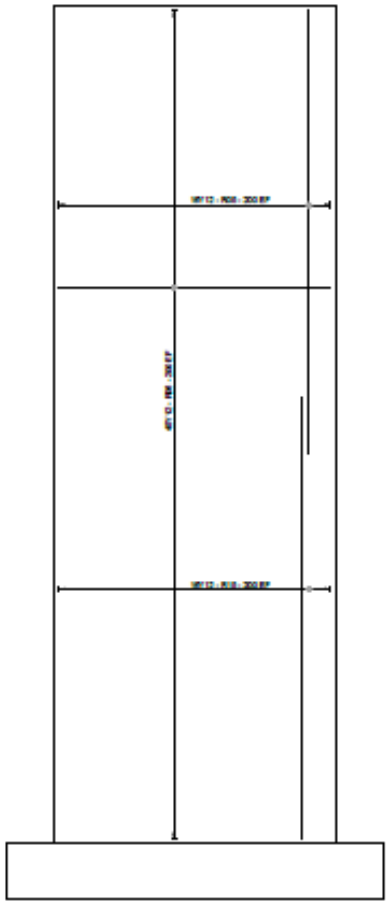




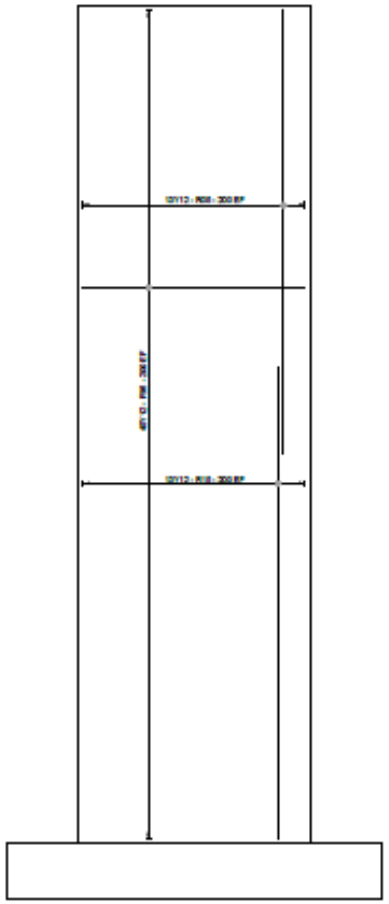
LIFT SHAFT LAYOUT AND DETAILS



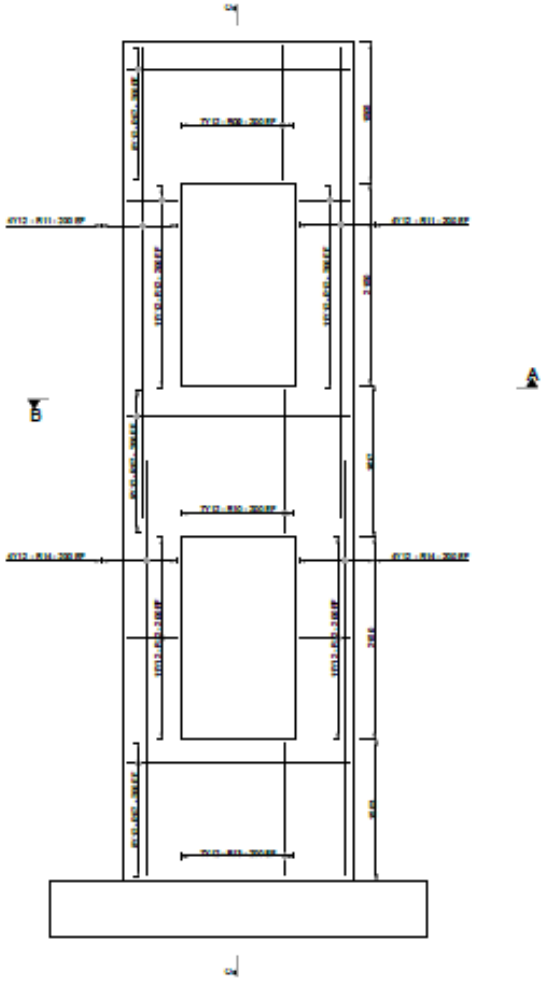
EAST ELEVATION
SCALE 1:25



WEST ELEVATION
SCALE 1:25

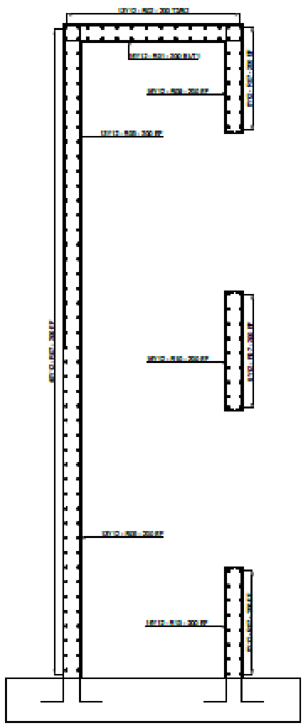


BACK ELEVATION
SCALE 1:25

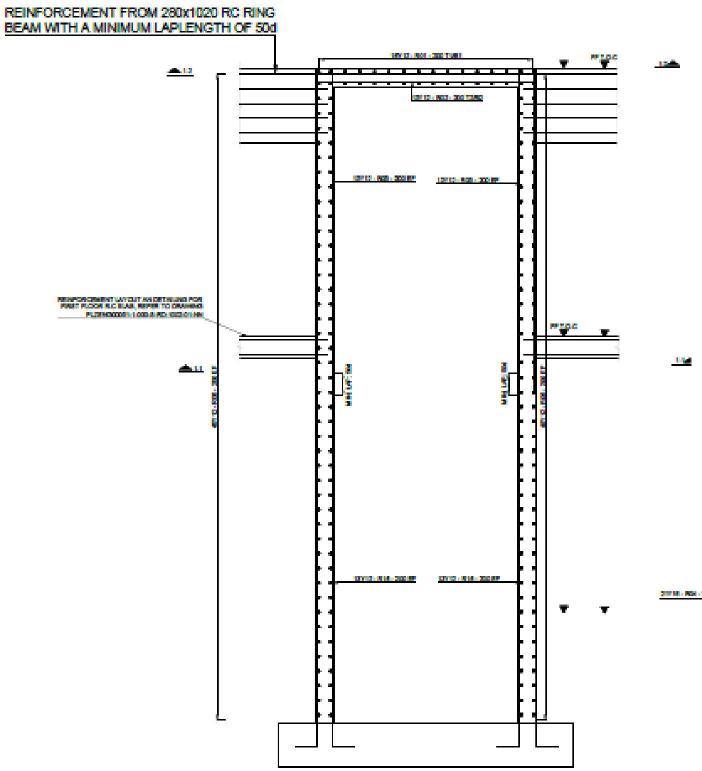


FRONT ELEVATION
SCALE 1:25

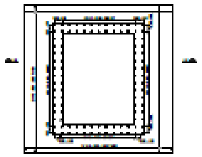
LIFT SHAFT REINFORCEMENT LAYOUT AND DETAILS



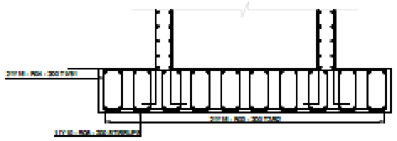
SECTION C - C
SCALE 1:25



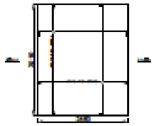
SECTION D - D
SCALE 1:25



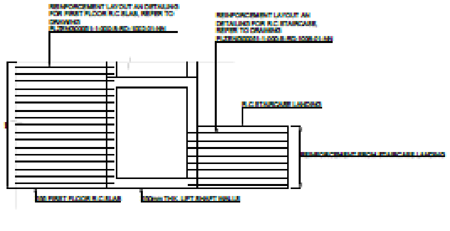
LIFT SHAFT FOUNDATION
SCALE 1:50



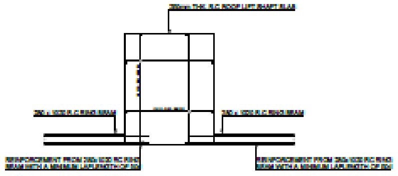
SECTION 1.5 - 1.5
SCALE 1:25



ROOF SLAB
SCALE 1:50



SECTION 1.1 - 1.1

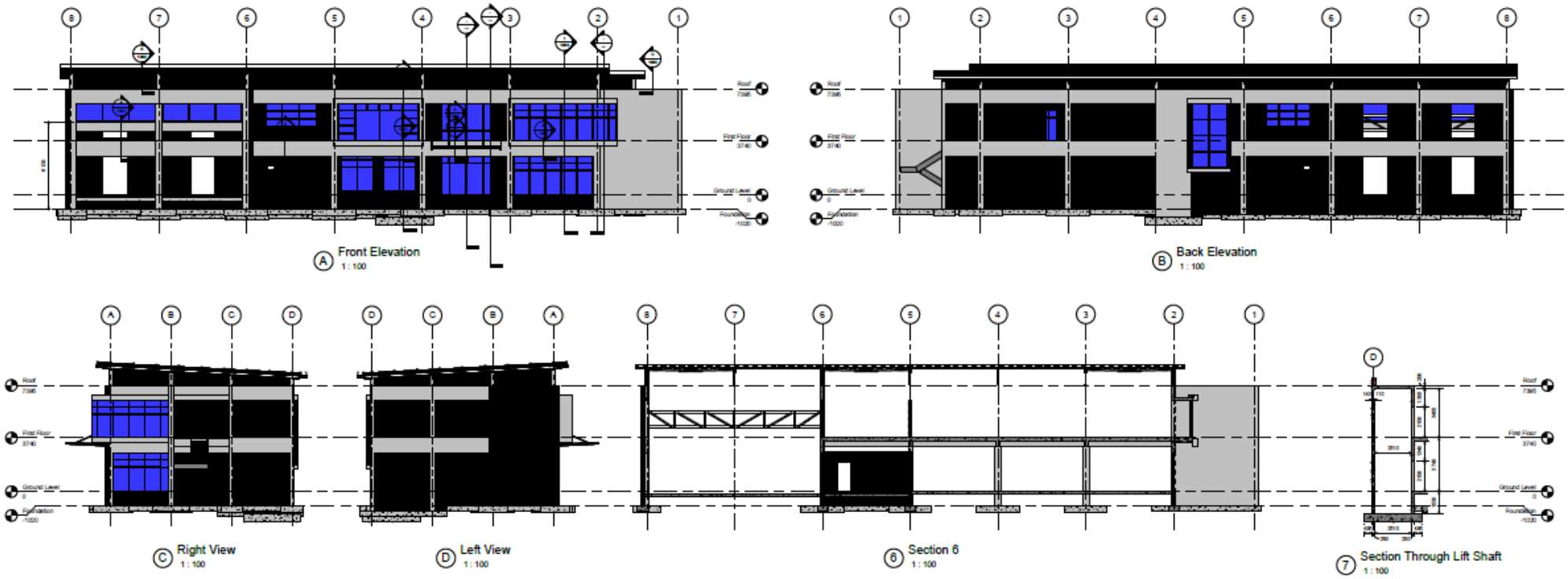


SECTION 1.2 - 1.2

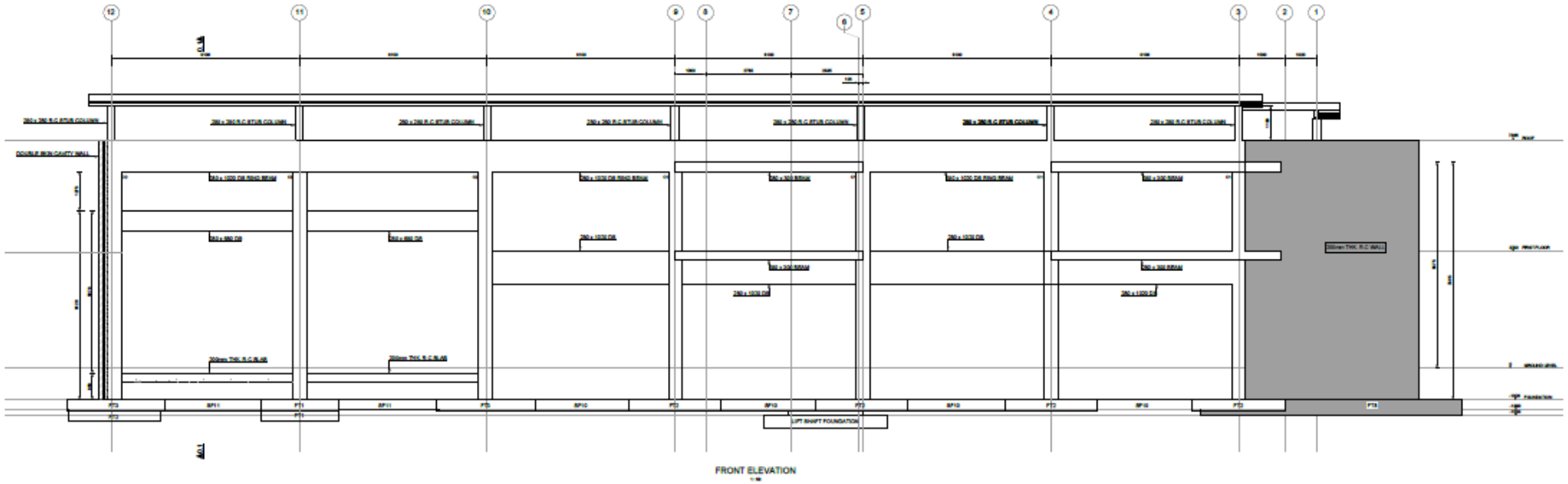
SECTION 1.4 - 1.4

MEMBER	UNIT	TYPE	MARK	TOTAL	LENGTH	CODE	BENDING DIMENSIONS A	B	C	D	E or r	MASS
LIFT SHAFT FOUNDATION	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
FRONT ELEVATION	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
	1											
EAST AND WEST ELEVATION	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
BACK ELEVATION	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
ROOF SLAB	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
TOTAL MASS IN kg	[illegible]											

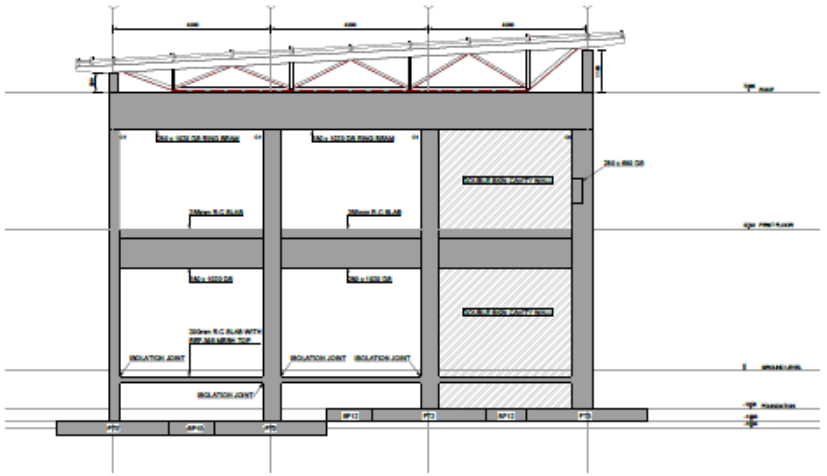
2D SECTIONS AND ELEVATIONS



SECTIONS AND ELEVATIONS



FRONT ELEVATION



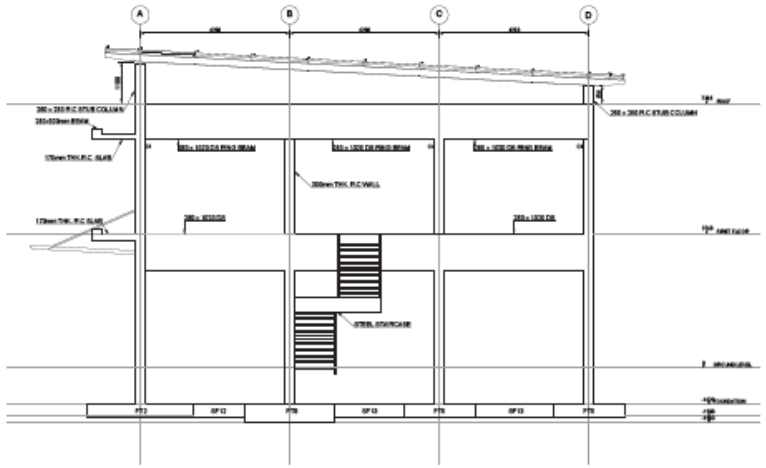
SECTION 01 - 01

COLUMN SIZES		
TYPE	SIZE	NO. of
C1	450x250	21
C2	500x450	2
C3	450x450	1
C4	250x250	2

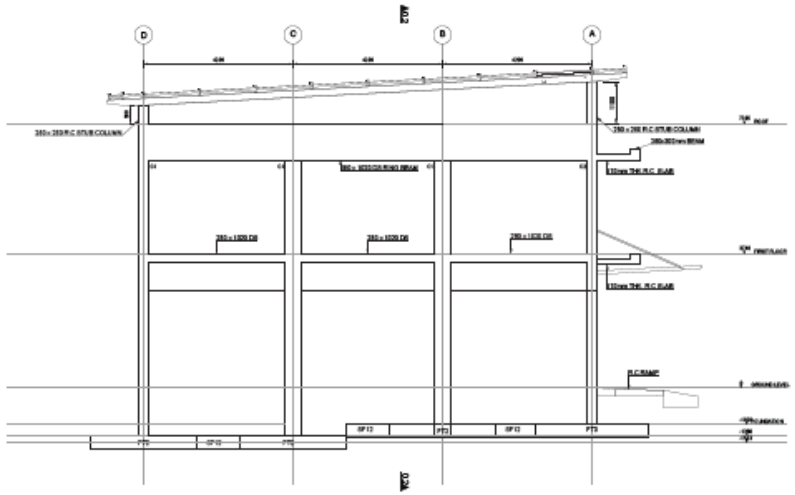
STRIP FOOTINGS	
TYPE	SIZE (mm)
SF10	600 x 300
SF11	600 x 300
SF12	600 x 300
SF13	600 x 300
SF20	750 x 300
SF21	750 x 300
SF22	750 x 300
SF23	1200 x 300

PAD FOOTINGS		
TYPE	SIZE (mm)	NO. of
PT1	2500 x 2500 x 350	2
PT2	3000 x 3000 x 350	15
PT3	3200 x 3200 x 350	2
PT4	1800 X 3000 X 350	1
PT5	3000 X 4750 X 350	2
PT6	3150 X 4500 X 350	1
PT7	3000 X 4500 X 350	1
PT8	2950 X 7730 X 600	1
LIFT SHAFT	4000 x 4000 x 600	1

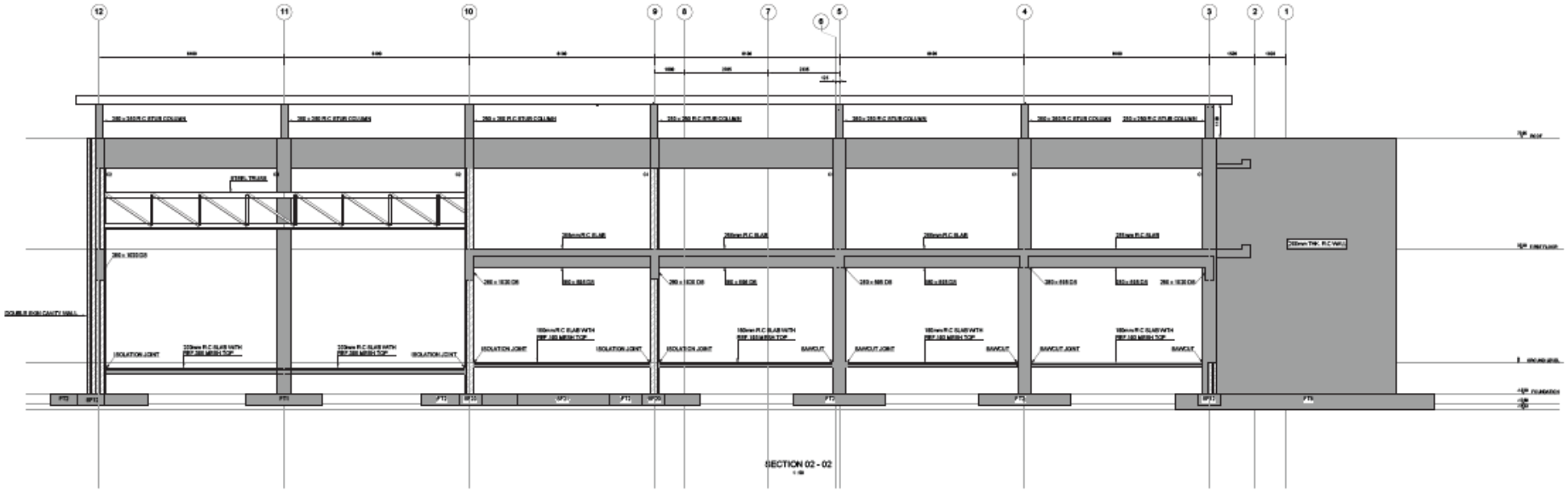
SECTIONS AND ELEVATIONS



RIGHT ELEVATION

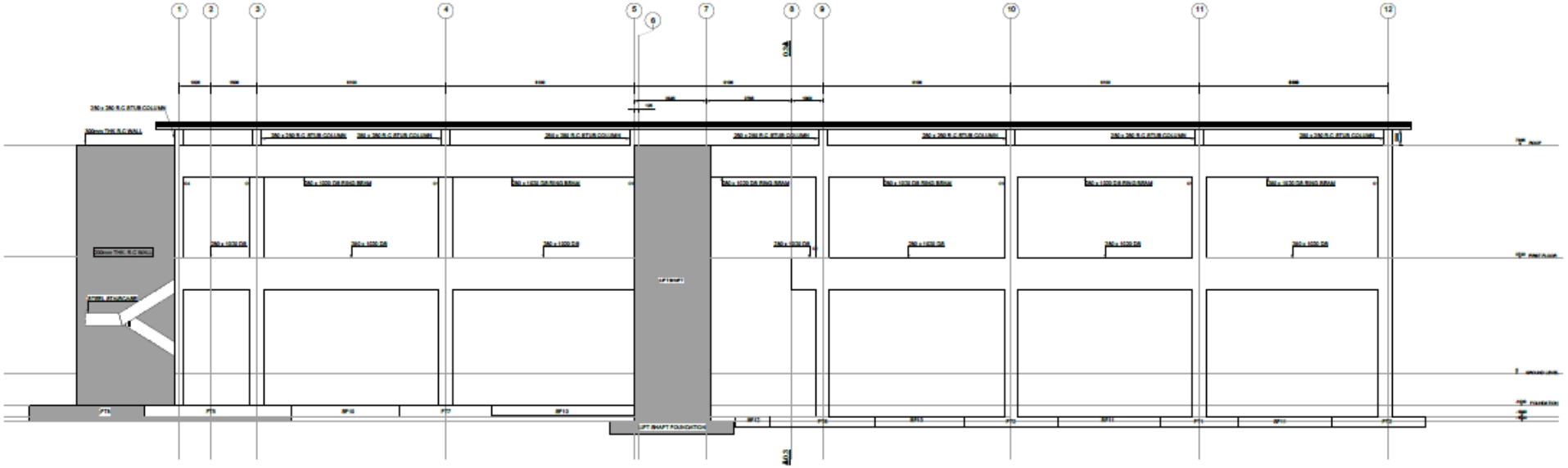


LEFT ELEVATION

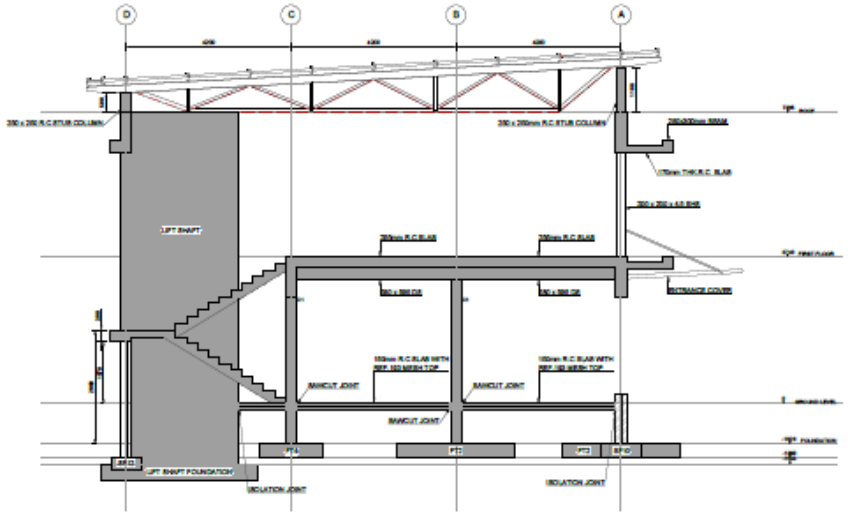


SECTION 02 - 02

SECTIONS AND ELEVATIONS

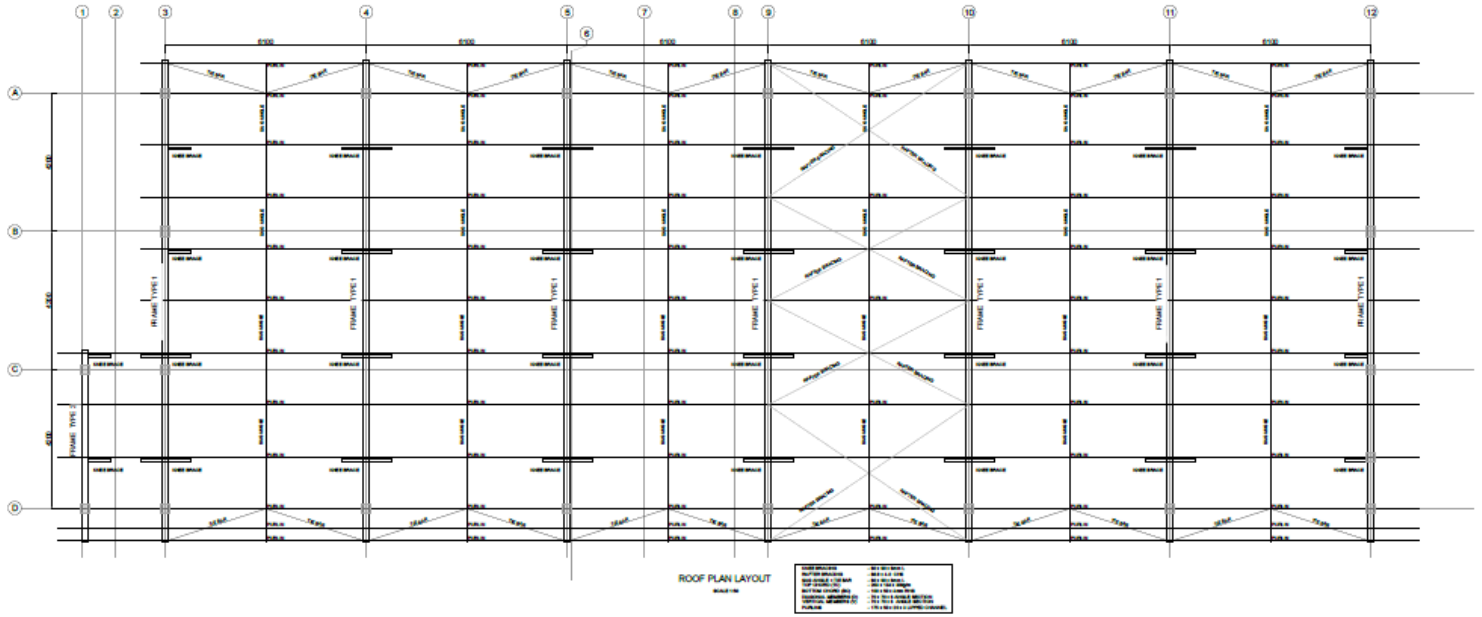


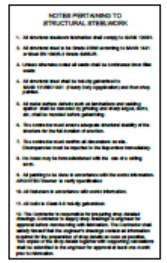
BACK ELEVATION

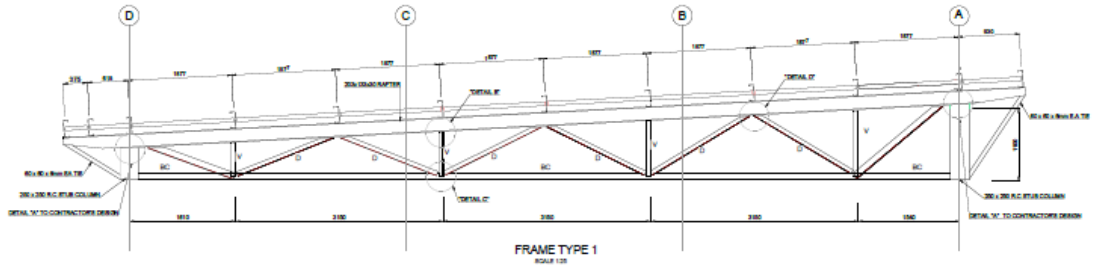


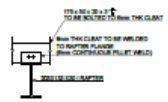
SECTION 03 - 03

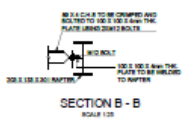
STEEL ROOF LAYOUT AND DETAILS

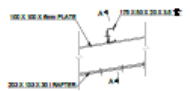


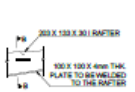


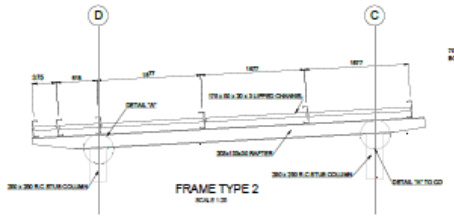


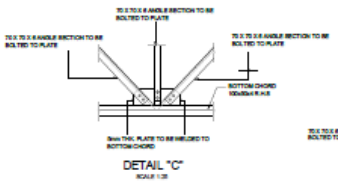


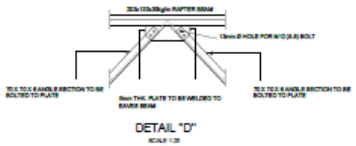


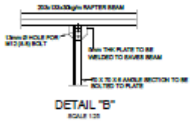


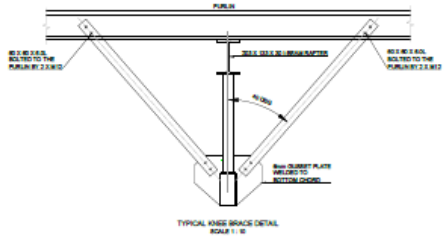




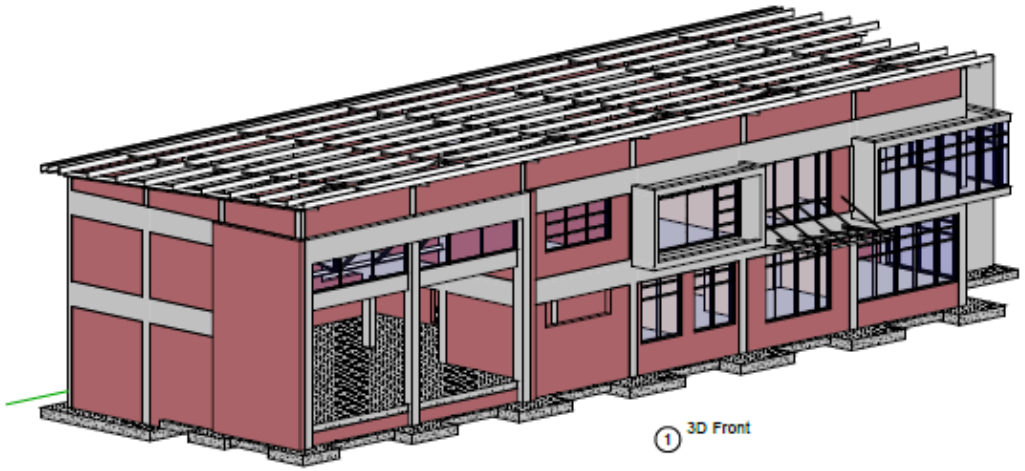




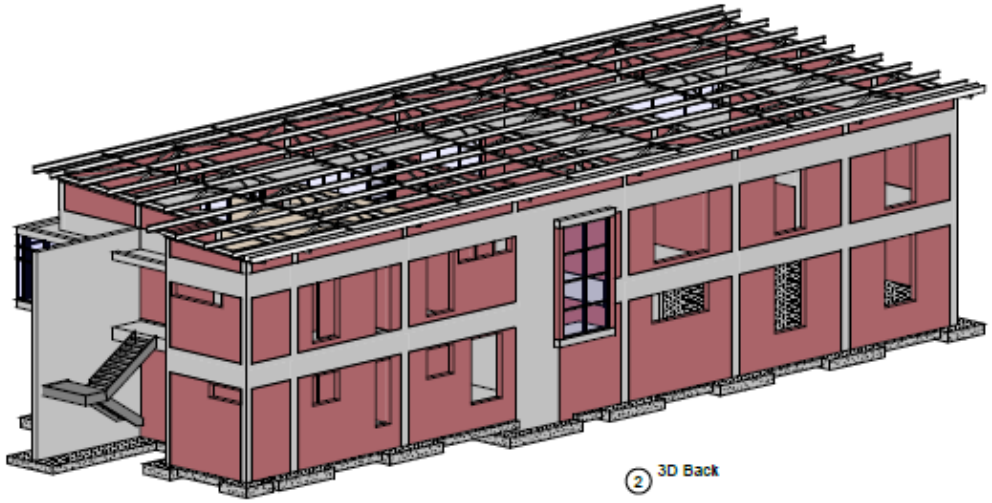




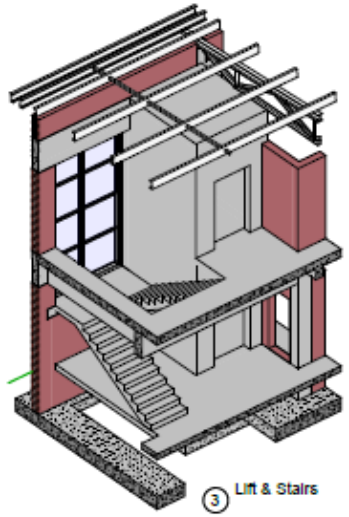
3D VIEWS



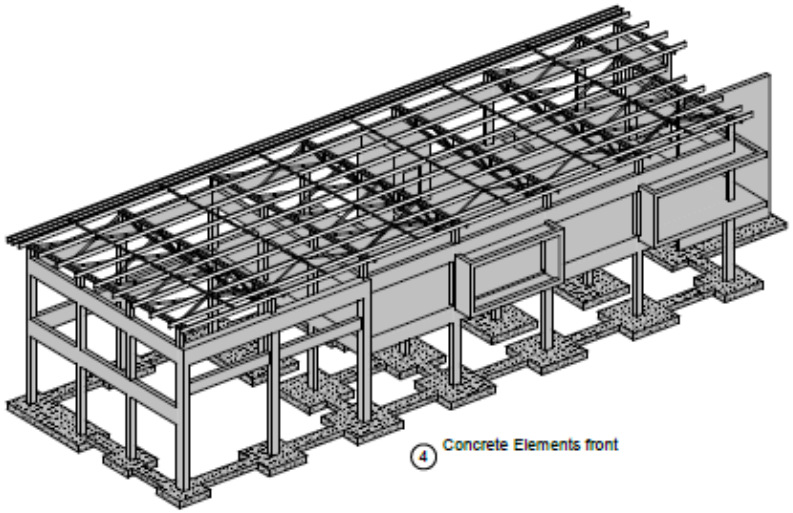
1 3D Front



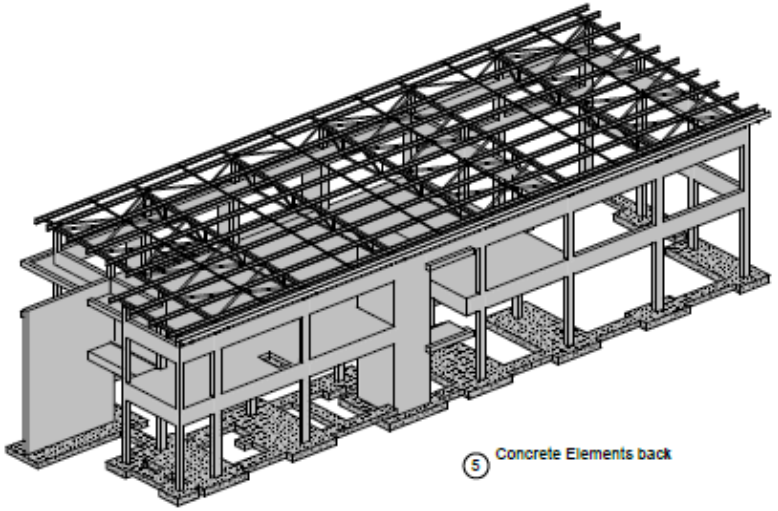
2 3D Back



3 Lift & Stairs

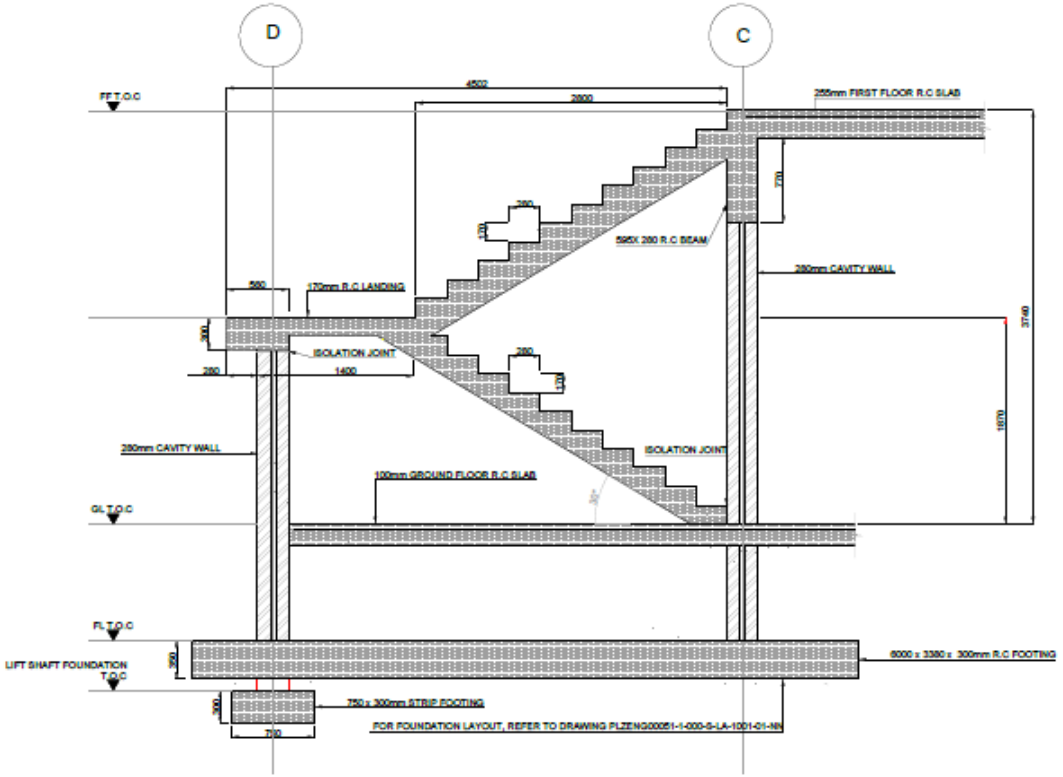


4 Concrete Elements front

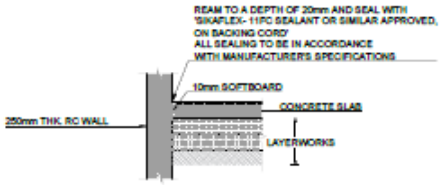


5 Concrete Elements back

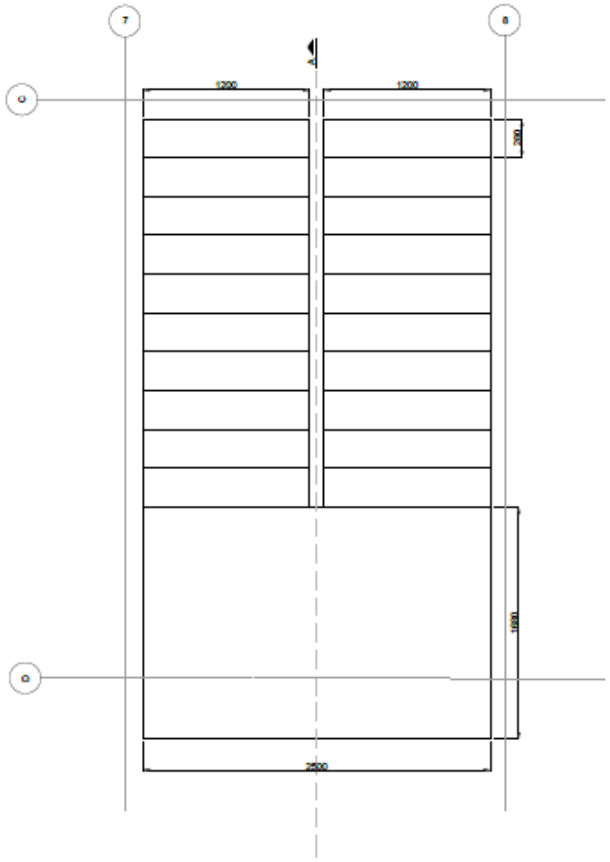
INTERIOR CONCRETE STAIRCASES



SECTION A - A
SCALE 1:25



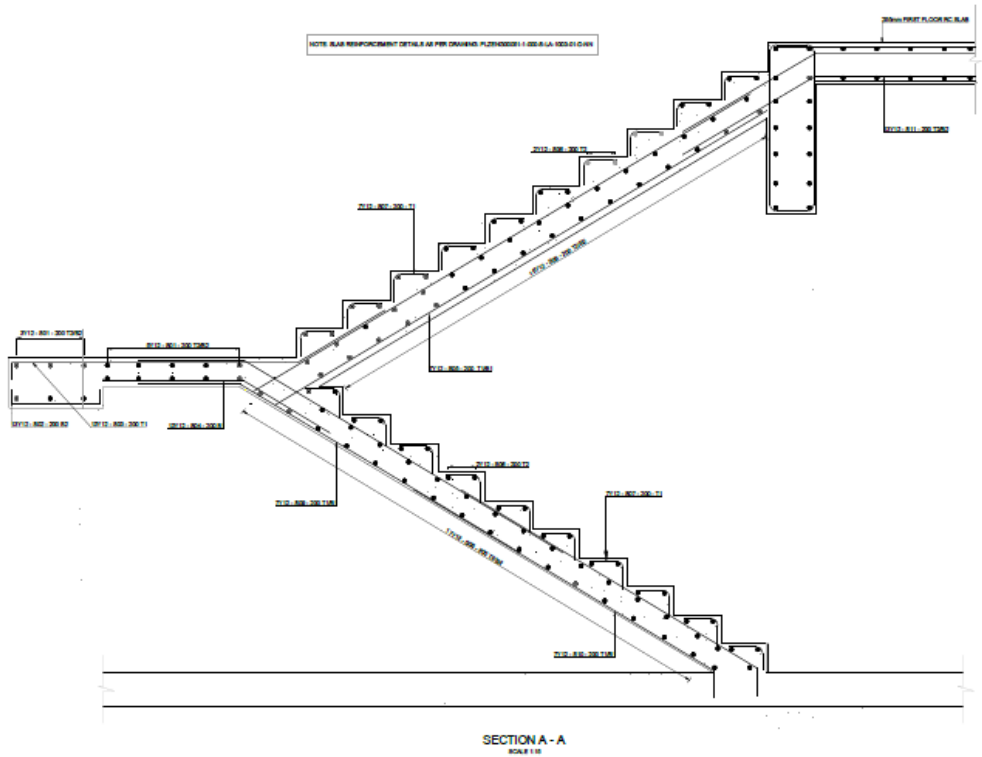
TYPICAL ISOLATION JOINT DETAIL (I.J)
SCALE 1:25



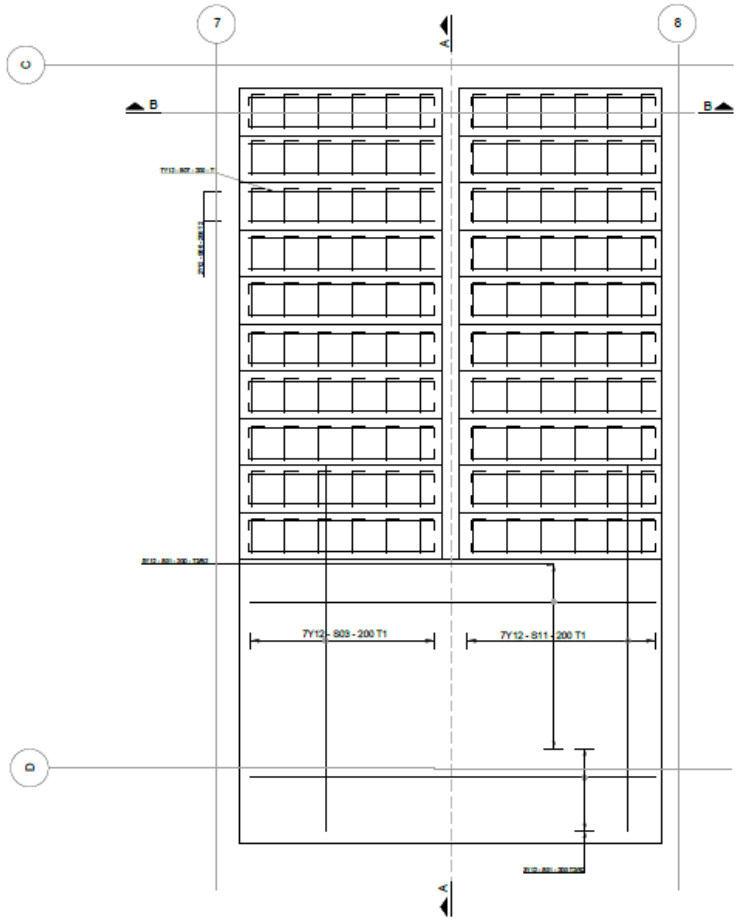
R.C STAIRCASE LAYOUT
SCALE 1:50

NOTES
1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL

REINFORCEMENT OF CONCRETE STAIRCASES

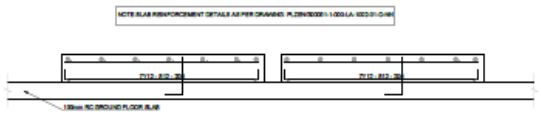


SECTION A - A



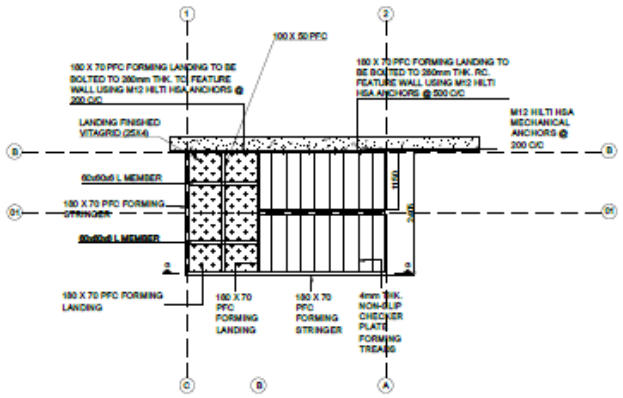
STAIRCASE REINFORCEMENT LAYOUT

MEMBER	MARK	TYPE	NO OFF	TOTAL	LENGTH	CODE	BENDING DIMENSIONS A	B	C	D	E or r	MASS (Kg)
TOTAL MASS IN kg												

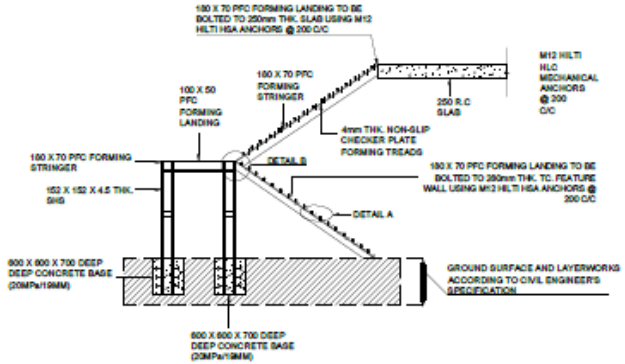


SECTION B - B

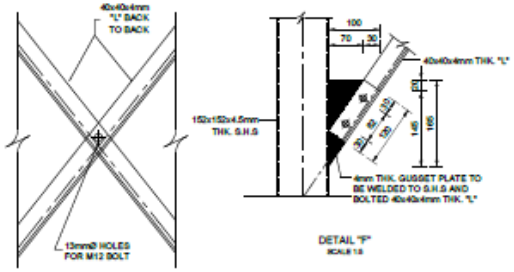
STEEL STAIRCASE LAYOUT AND DETAILING

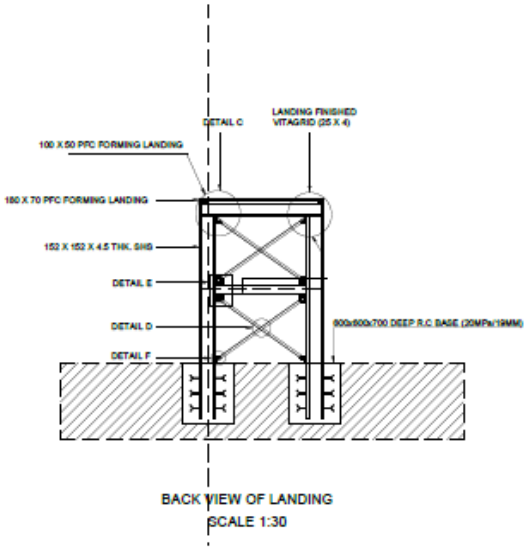


STEEL STAIRCASE LAYOUT
SCALE 1:50

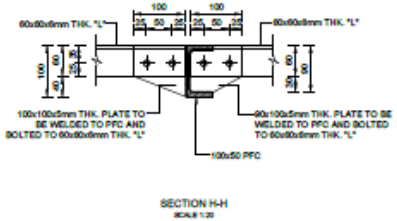


SECTION 01 - 01
SCALE 1:50

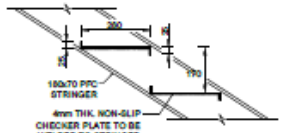




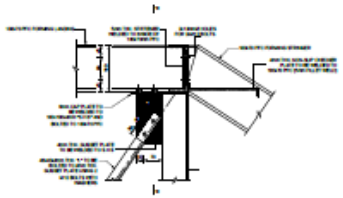
BACK VIEW OF LANDING
SCALE 1:30



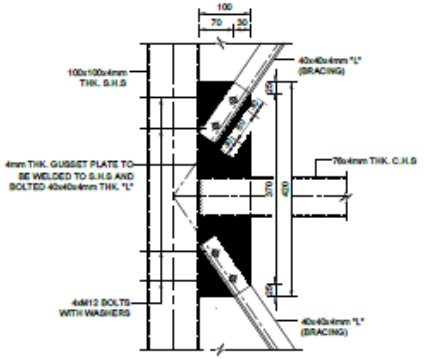
SECTION H-H
SCALE 1:20



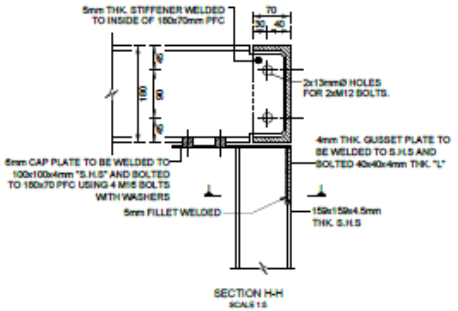
DETAIL "A"
SCALE 1:20



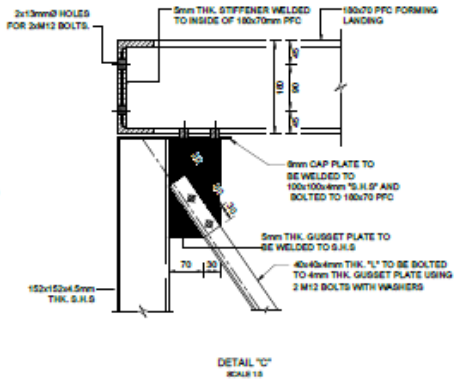
DETAIL "B"
SCALE 1:5



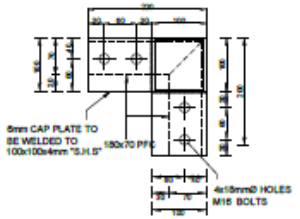
DETAIL "E"
SCALE 1:5



SECTION H-H
SCALE 1:5

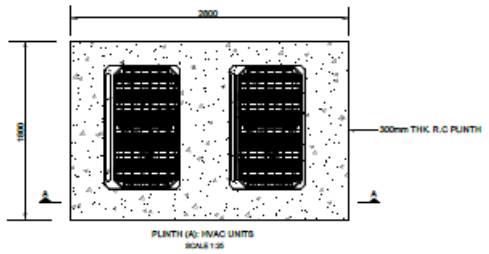


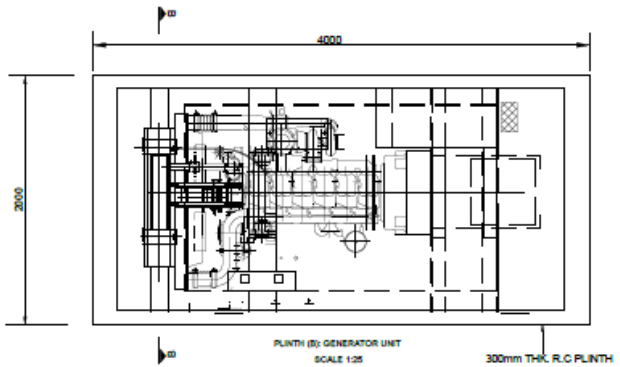
DETAIL "C"
SCALE 1:5

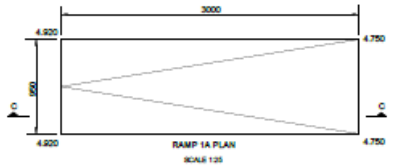


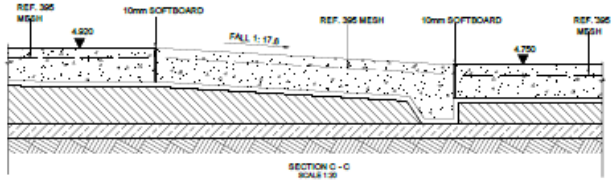
SECTION I-I
SCALE 1:5

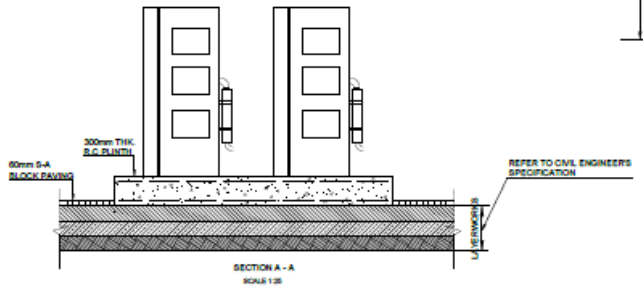
R.C PLINTHS AND INTERIOR RAMP

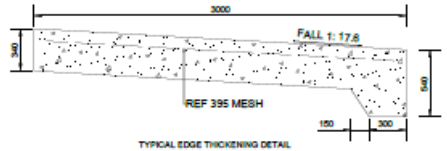


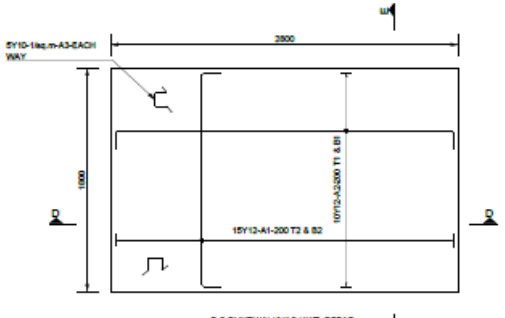


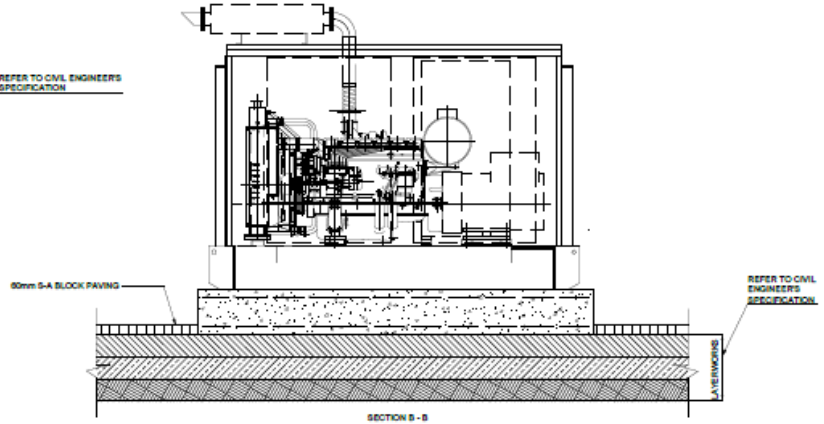




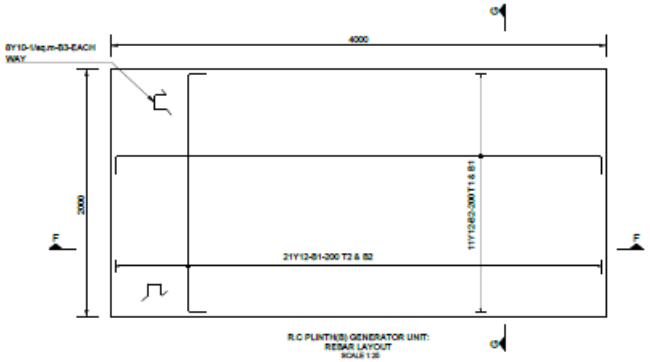


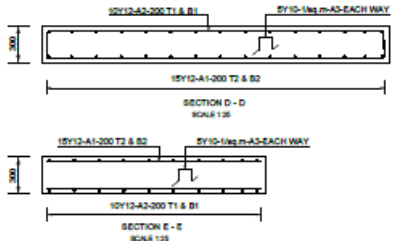


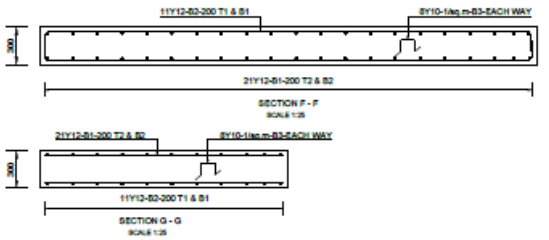




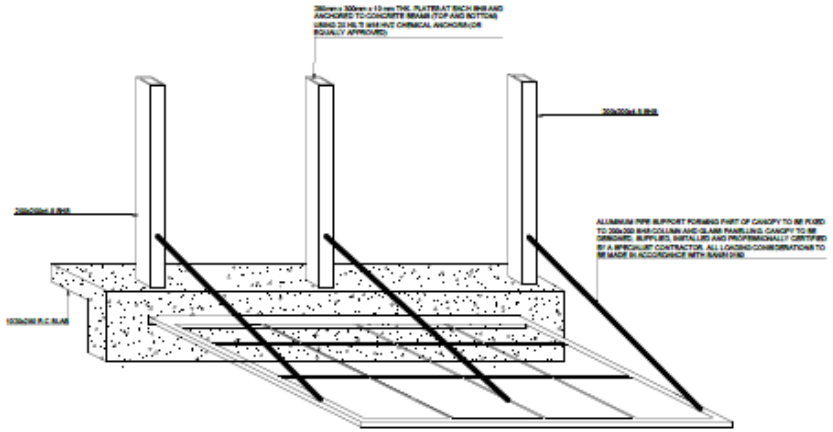
MEMBER & SIZE		REINFORCEMENT						SHAPE CODE	DIMENSIONS				
		UNITS	MARK	TYPE & DIA.	No. PER UNIT	TOTAL No.	LENGTH		A	B	C	D	BR
PLINTH(A)	2800 X 1800 X 300 DP	1	A1	Y12	15	15	1950	38	150	1720	150		
			A2	Y12	10	10	2950	38	150	2720	150		
			A3	Y10	5	5	350	83	110	100	65	65	
PLINTH(B)	4000 X 2000 X 300 DP	1	B1	Y12	21	21	2150	38	150	1920	150		
			B2	Y12	11	11	4150	38	150	3920	150		
			B3	Y10	8	8	350	83	110	100	65	65	



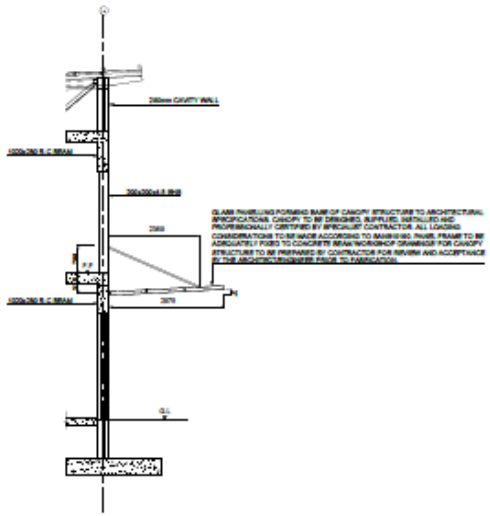




KITCHEN AND BACK ENTRANCE COVER

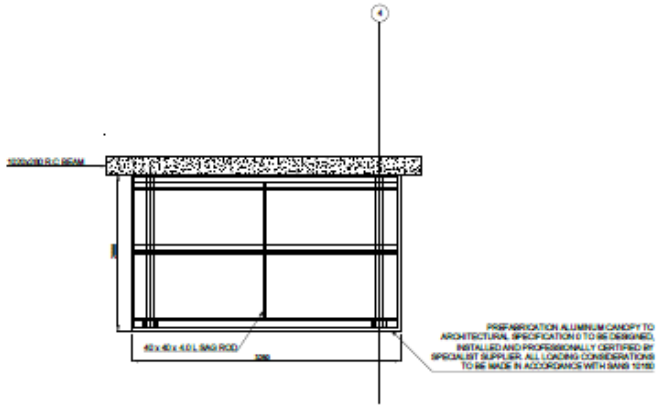


MAIN ENTRANCE CANOPY: SUPPORT CONFIGURATION
SCALE 1:25

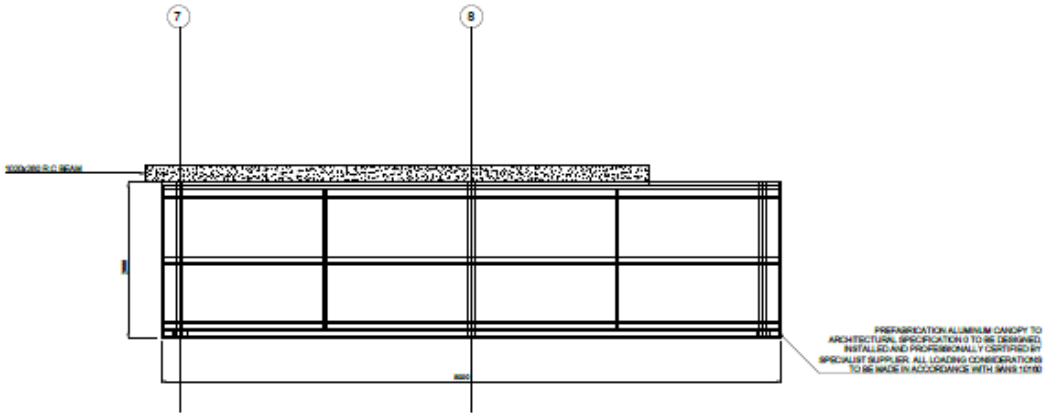


TYPICAL SECTION THROUGH MAIN ENTRANCE
SCALE 1:50

External provider to design, supply and install

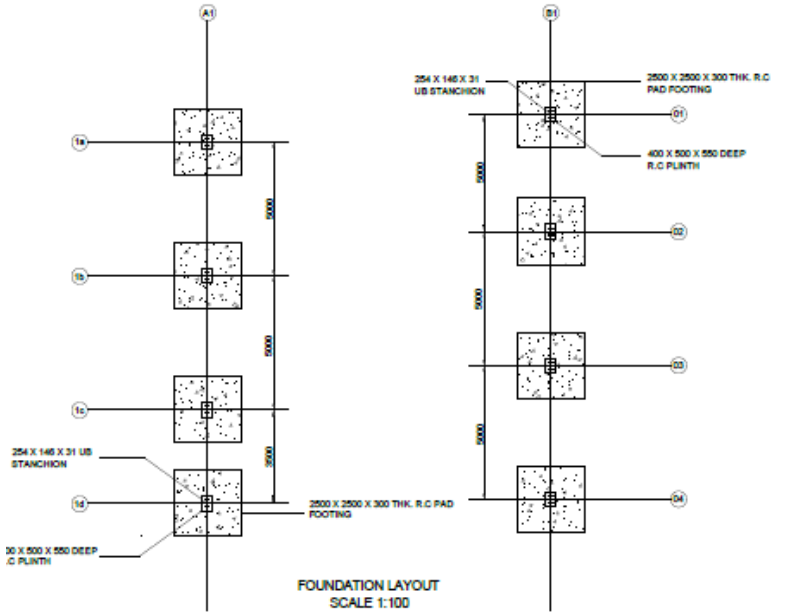


KITCHEN ENTRANCE COVER LAYOUT
SCALE 1:25

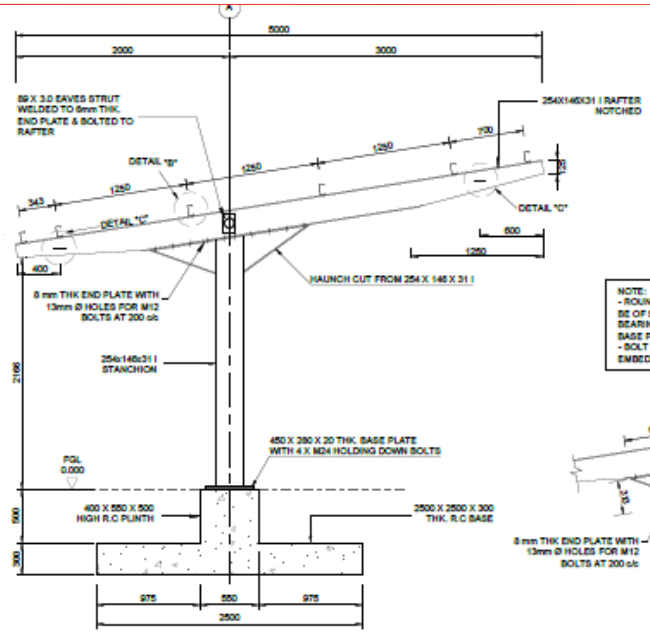


BACK ENTRANCE COVER LAYOUT
SCALE 1:25

CARPOT LAYOUT AND DETAILING

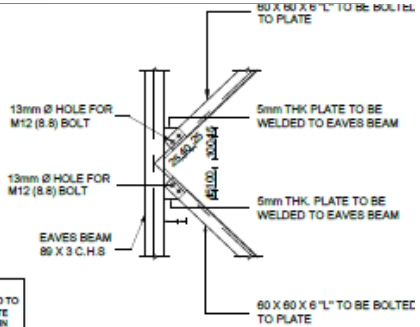


FOUNDATION LAYOUT
SCALE 1:100

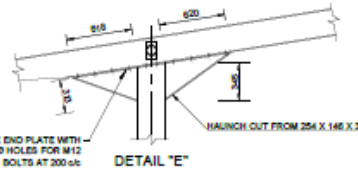


TYPICAL FRAME SECTION
SCALE 1:25

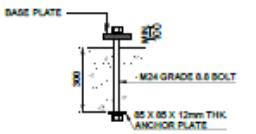
NOTE:
- ROUND WASHER TO BE USED UNDER NUT AND TO BE OF SUFFICIENT SIZE TO PROVIDE ADEQUATE BEARING AROUND CLEARANCE HOLE IN COLUMN BASE PLATE.
- BOLT SHANKS TO BE DEGREASED BEFORE EMBEDDING IN CONCRETE



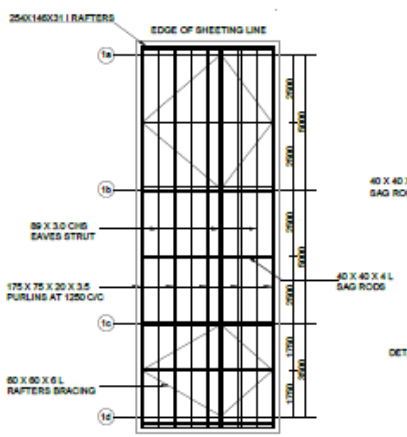
DETAIL "D"
SCALE 1:25

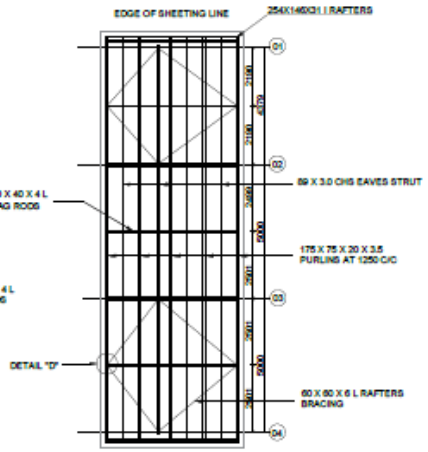


DETAIL "E"
SCALE 1 : 25

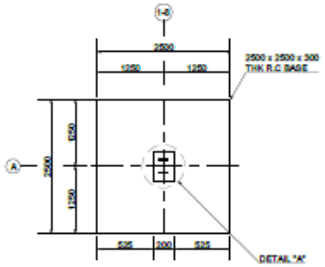


TYPICAL HOLDING DOWN BOLT DETAIL
SCALE 1 : 25

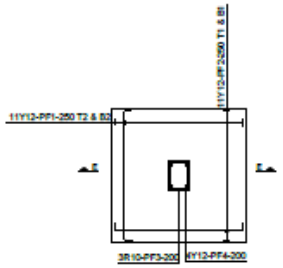




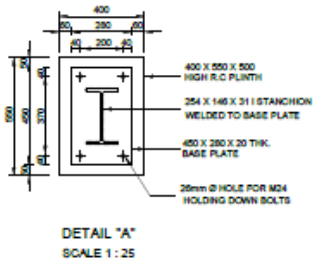
ROOF LAYOUT
SCALE 1:100



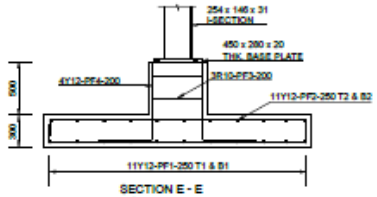
TYPICAL PLAN : FOUNDATION
SCALE 1 : 50



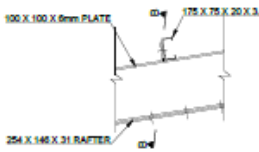
FOUNDATION REBAR DETAIL
SCALE 1 : 50



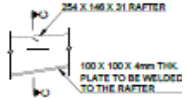
DETAIL "A"
SCALE 1 : 25



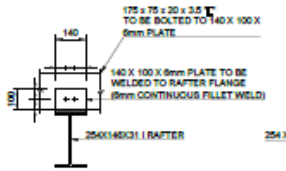
SECTION E - E
SCALE 1:25



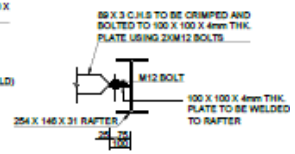
DETAIL "B"
SCALE 1 : 25



DETAIL "C"
SCALE 1 : 25



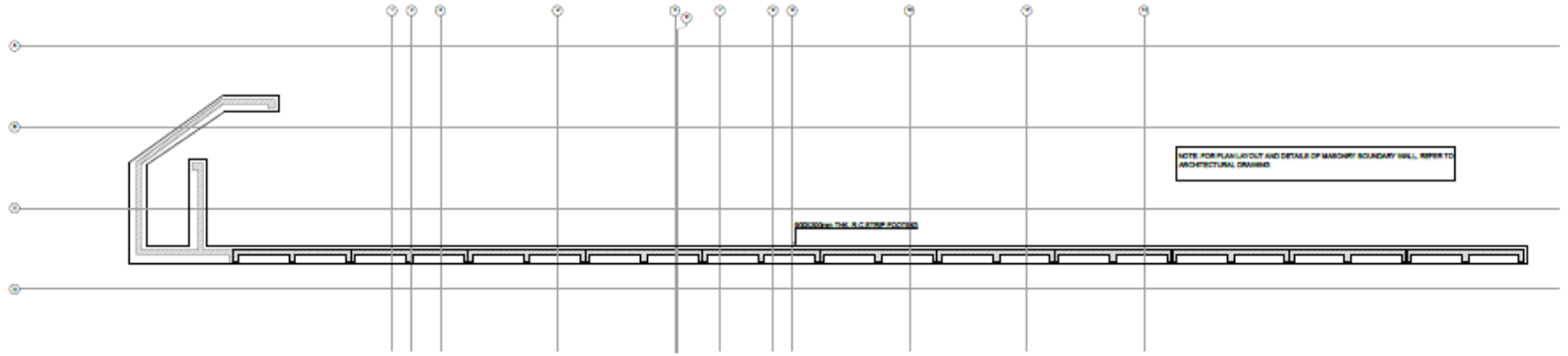
SECTION B - B
SCALE 1 : 25



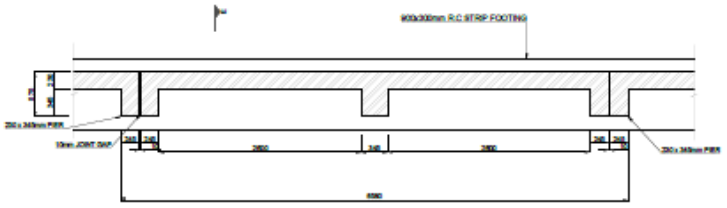
SECTION C - C
SCALE 1 : 25

MEMBER & SIZE		REINFORCEMENT						BAR CODE	DIMENSIONS					
		UNITS	MARK	TYPE & DIA.	No. PER UNIT	TOTAL No.	LENGTH		A	B	C	D	RR
PAD FOOTING 2500 X 300 DP		8	PF1	Y12	11	88	2800	38	125	2400	125		
			PF2	Y12	11	88	2800	38	125	2400	125		
			PF3	R10	3	24	1750	60	470	330			
			PF4	Y12	4	32	1800	37	500	1300			

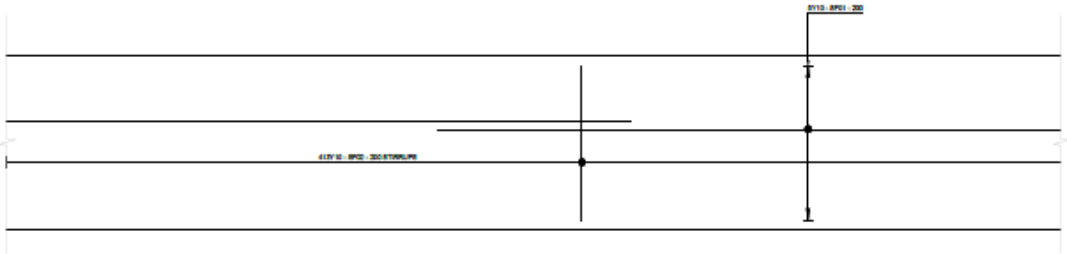
BOUNDARY WALL



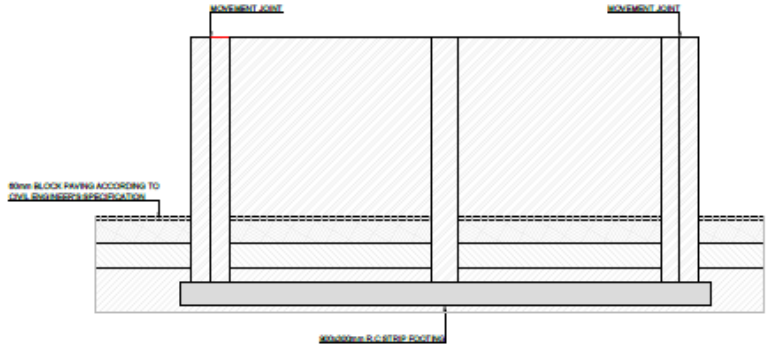
BOUNDARY WALL LAYOUT



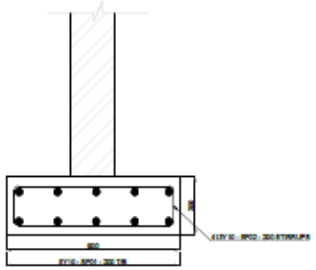
BOUNDARY WALL PART PLAN
SCALE 1:25



STRIP FOOTING PART PLAN LAYOUT



BOUNDARY WALL LAYOUT

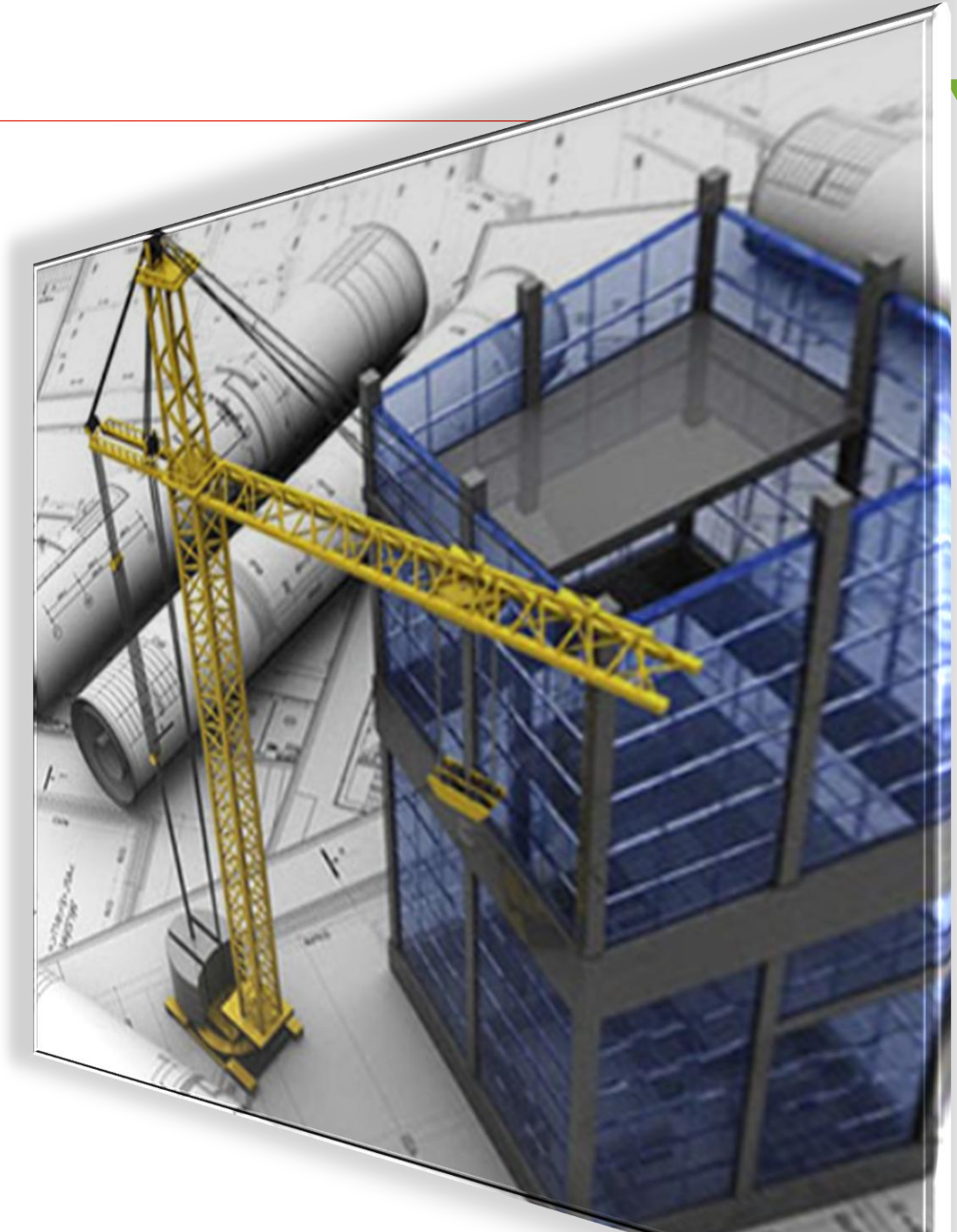


SECTION A - A

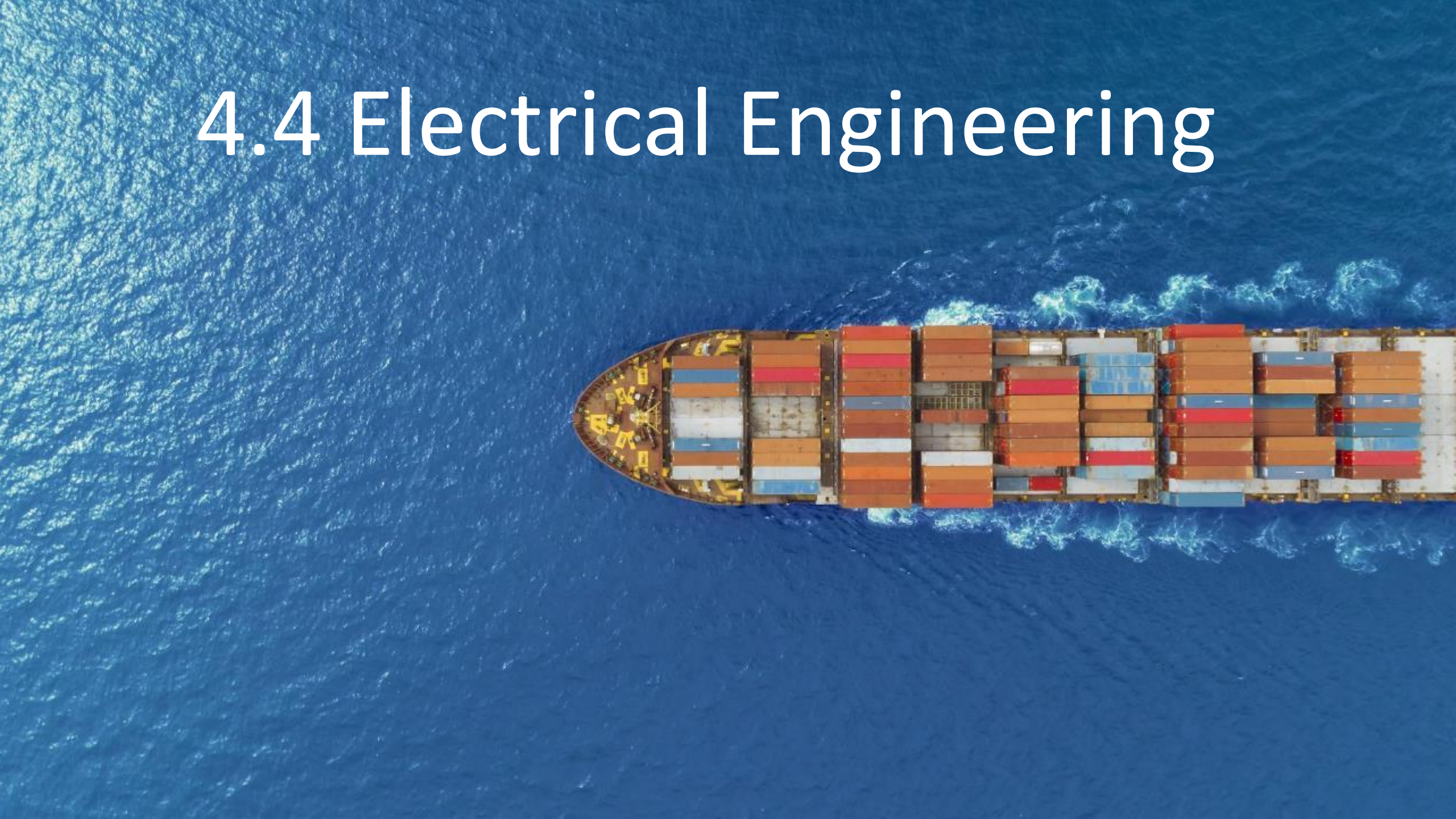
MEMBER & SIZE	REINFORCEMENT						SHAPE CODE	DIMENSIONS				
	UNITS	MARK	TYPE &	No. PER	TOTAL No.	LENGTH		A	B	C	D	BR
STRIP FOOTING	1	SP01	Y10	140	140	6000	35	6000				
		SP02	Y10	413	413	5000	85	300	600			

Technical Documentation

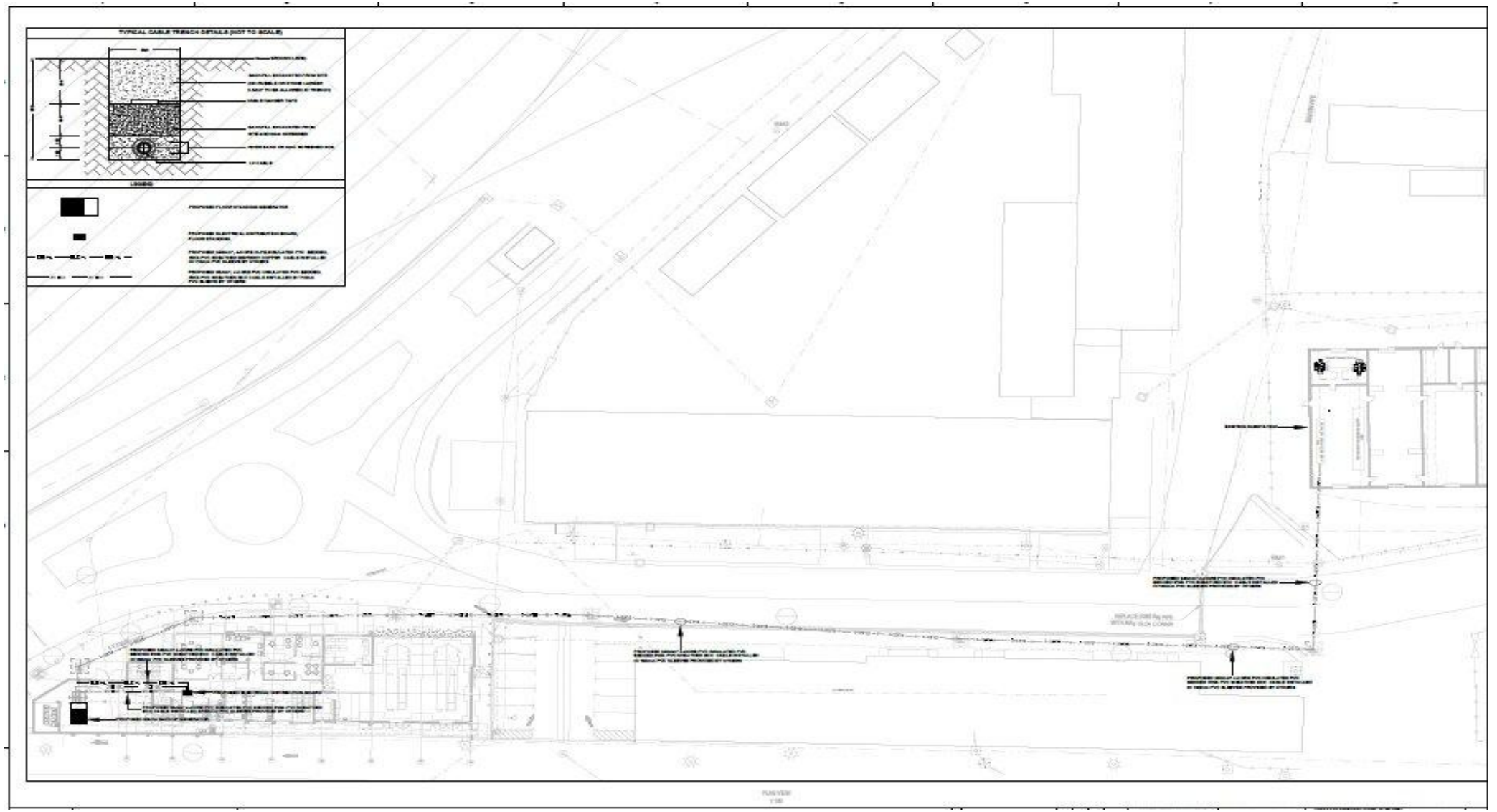
- Geotechnical report
- Design criteria
- Design report
- Works Information



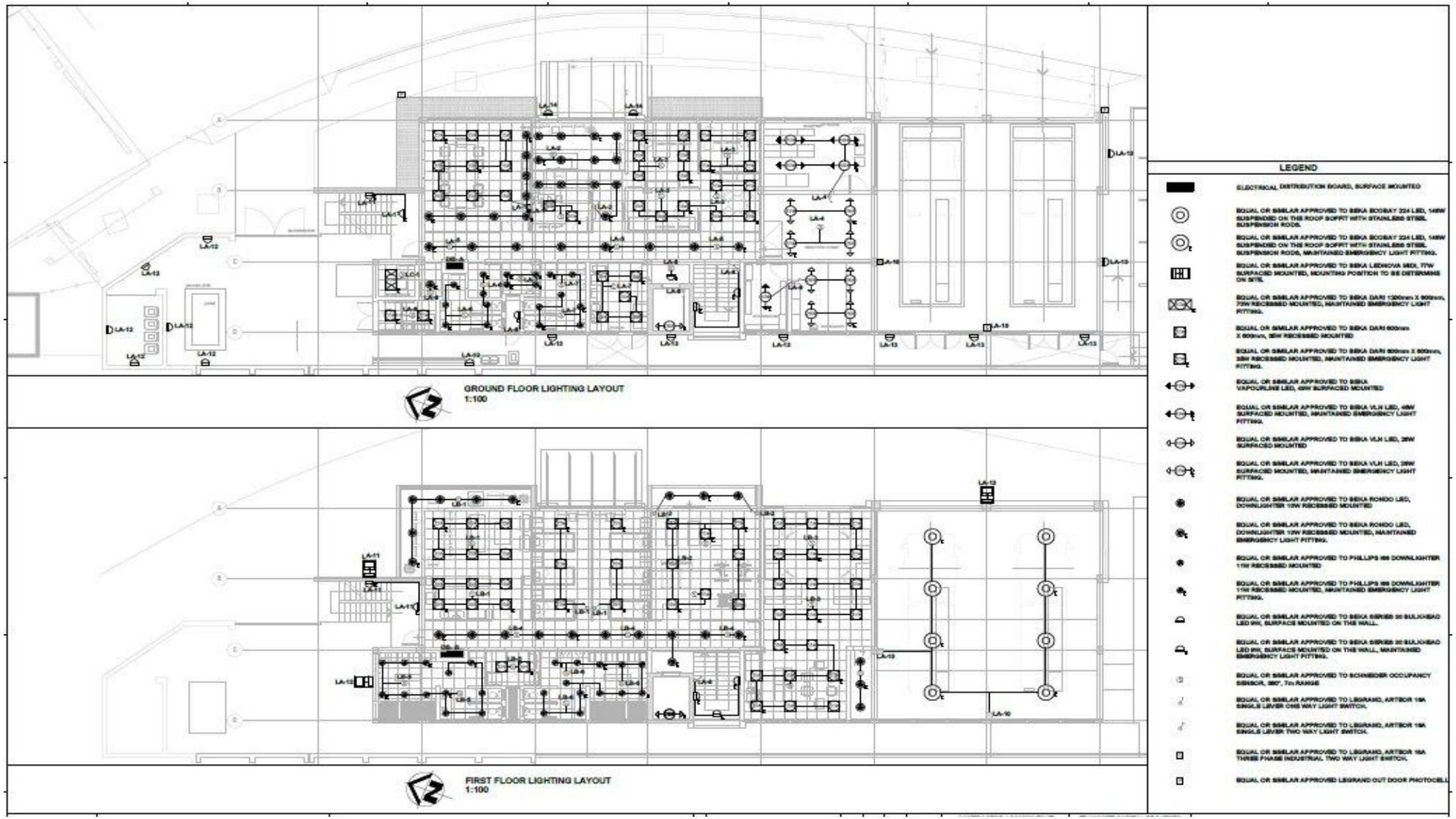
4.4 Electrical Engineering



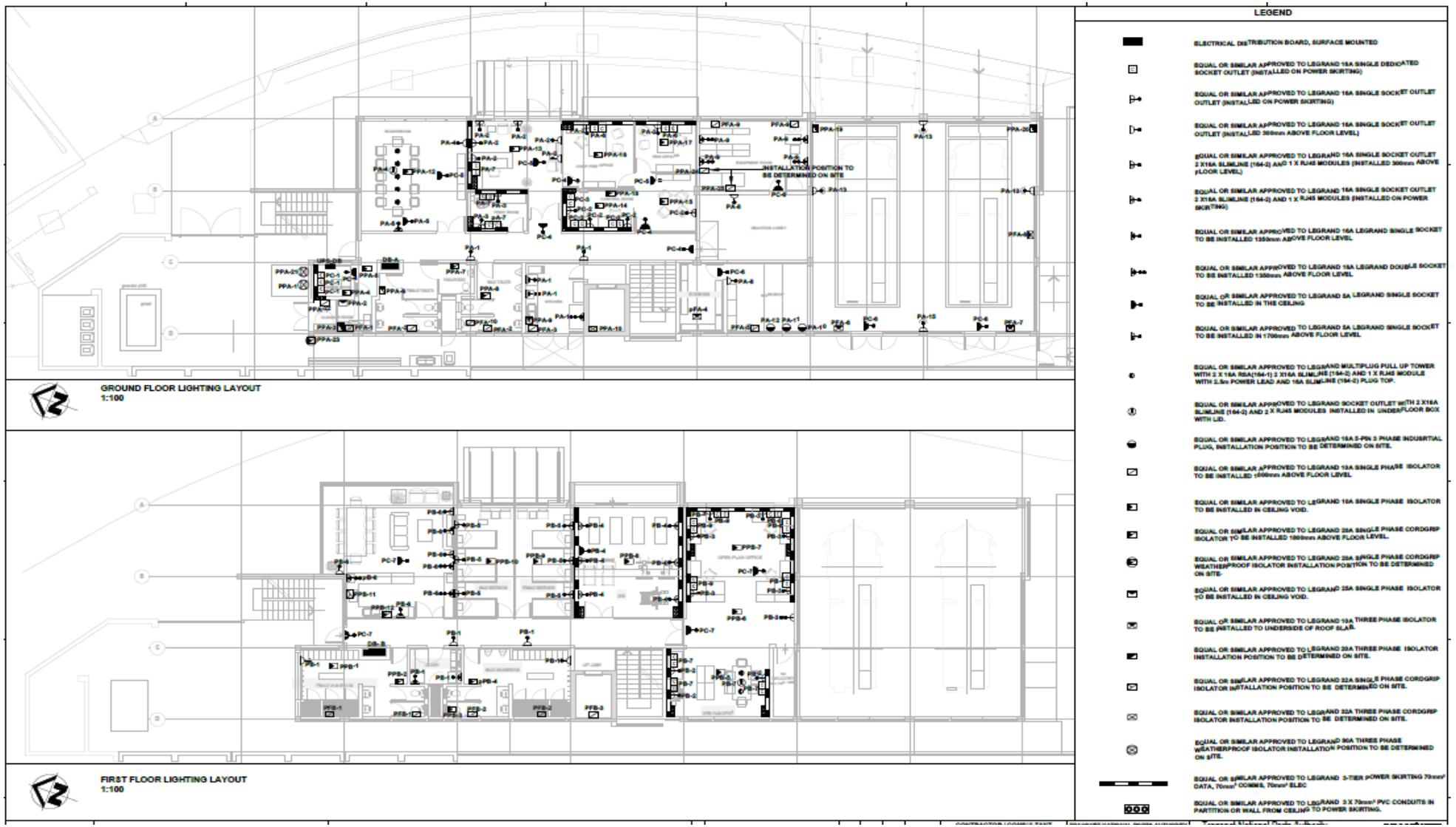
ELECTRICAL



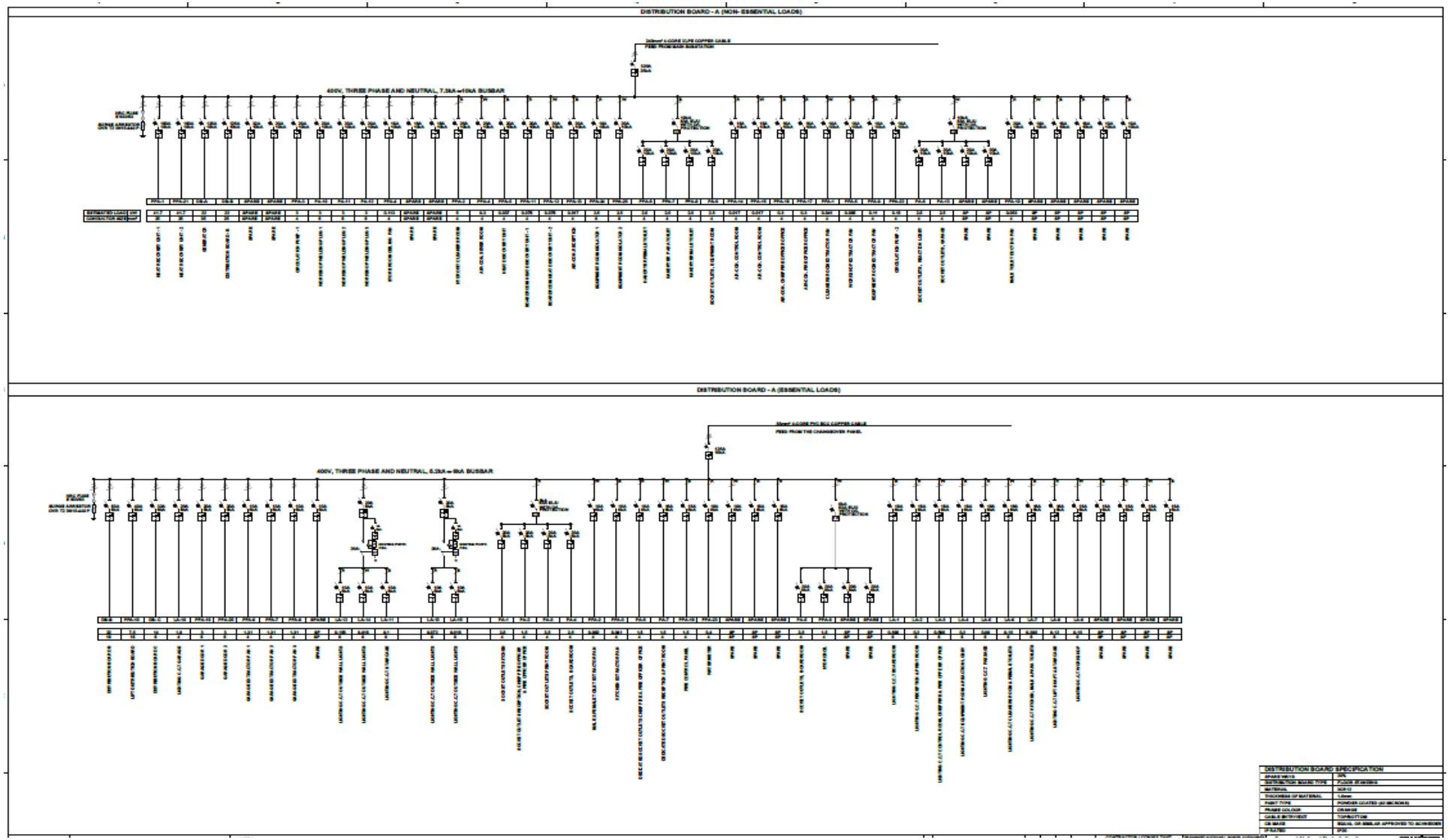
ELECTRICAL


GROUND FLOOR LIGHTING LAYOUT
1:100
FIRST FLOOR LIGHTING LAYOUT
1:100
LEGEND

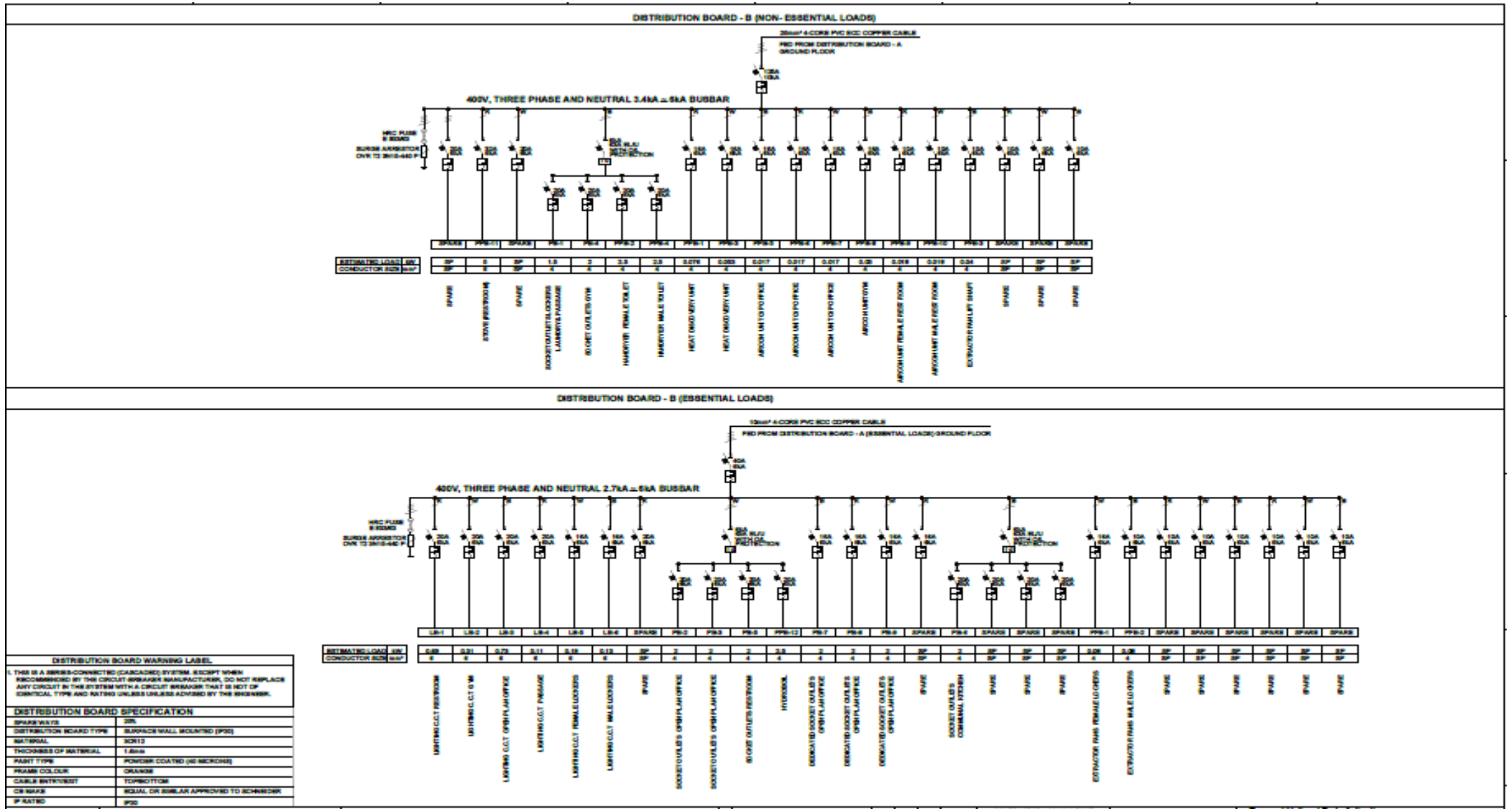
ELECTRICAL


LEGEND
ELECTRICAL DISTRIBUTION BOARD, SURFACE MOUNTED
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A SINGLE DEDICATED SOCKET OUTLET (INSTALLED ON POWER SKIRTING)
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A SINGLE SOCKET OUTLET OUTLET (INSTALLED ON POWER SKIRTING)
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A SINGLE SOCKET OUTLET OUTLET (INSTALLED 300mm ABOVE FLOOR LEVEL)
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A SINGLE SOCKET OUTLET 2 X16A SLIMLINE (164-2) AND 1 X RJ45 MODULES (INSTALLED 300mm ABOVE FLOOR LEVEL)
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A SINGLE SOCKET OUTLET 2 X16A SLIMLINE (164-2) AND 1 X RJ45 MODULES (INSTALLED ON POWER SKIRTING)
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A LEGRAND SINGLE SOCKET TO BE INSTALLED 1350mm ABOVE FLOOR LEVEL
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A LEGRAND DOUBLE SOCKET TO BE INSTALLED 1350mm ABOVE FLOOR LEVEL
EQUAL OR SIMILAR APPROVED TO LEGRAND 5A LEGRAND SINGLE SOCKET TO BE INSTALLED IN THE CEILING
EQUAL OR SIMILAR APPROVED TO LEGRAND 5A LEGRAND SINGLE SOCKET TO BE INSTALLED IN 1700mm ABOVE FLOOR LEVEL
EQUAL OR SIMILAR APPROVED TO LEGRAND MULTIPLUG PULL UP TOWER WITH 2 X 16A BSA(164-1) 2 X16A SLIMLINE (164-2) AND 1 X RJ45 MODULE WITH 2.5m POWER LEAD AND 16A SLIMLINE (164-2) PLUG TOP.
EQUAL OR SIMILAR APPROVED TO LEGRAND SOCKET OUTLET WITH 2 X16A SLIMLINE (164-2) AND 2 X RJ45 MODULES INSTALLED IN UNDERFLOOR BOX WITH LID.
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A 5-PIN 3 PHASE INDUSTRIAL PLUG, INSTALLATION POSITION TO BE DETERMINED ON SITE.
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A SINGLE PHASE ISOLATOR TO BE INSTALLED 1800mm ABOVE FLOOR LEVEL
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A SINGLE PHASE ISOLATOR TO BE INSTALLED IN CEILING VOID.
EQUAL OR SIMILAR APPROVED TO LEGRAND 20A SINGLE PHASE CORDGRIP ISOLATOR TO BE INSTALLED 1800mm ABOVE FLOOR LEVEL.
EQUAL OR SIMILAR APPROVED TO LEGRAND 20A SINGLE PHASE CORDGRIP WEATHERPROOF ISOLATOR INSTALLATION POSITION TO BE DETERMINED ON SITE.
EQUAL OR SIMILAR APPROVED TO LEGRAND 32A SINGLE PHASE ISOLATOR TO BE INSTALLED IN CEILING VOID.
EQUAL OR SIMILAR APPROVED TO LEGRAND 16A THREE PHASE ISOLATOR TO BE INSTALLED TO UNDERSIDE OF ROOF SLAB.
EQUAL OR SIMILAR APPROVED TO LEGRAND 20A THREE PHASE ISOLATOR INSTALLATION POSITION TO BE DETERMINED ON SITE.
EQUAL OR SIMILAR APPROVED TO LEGRAND 32A SINGLE PHASE CORDGRIP ISOLATOR INSTALLATION POSITION TO BE DETERMINED ON SITE.
EQUAL OR SIMILAR APPROVED TO LEGRAND 32A THREE PHASE CORDGRIP ISOLATOR INSTALLATION POSITION TO BE DETERMINED ON SITE.
EQUAL OR SIMILAR APPROVED TO LEGRAND 96A THREE PHASE WEATHERPROOF ISOLATOR INSTALLATION POSITION TO BE DETERMINED ON SITE.
EQUAL OR SIMILAR APPROVED TO LEGRAND 3-TIER POWER SKIRTING 70mm² DATA, 70mm² COMMS, 70mm² ELEC
EQUAL OR SIMILAR APPROVED TO LEGRAND 3 X 70mm² PVC CONDUITS IN PARTITION OR WALL FROM CEILING TO POWER SKIRTING.
GROUND FLOOR LIGHTING LAYOUT
1:100
FIRST FLOOR LIGHTING LAYOUT
1:100

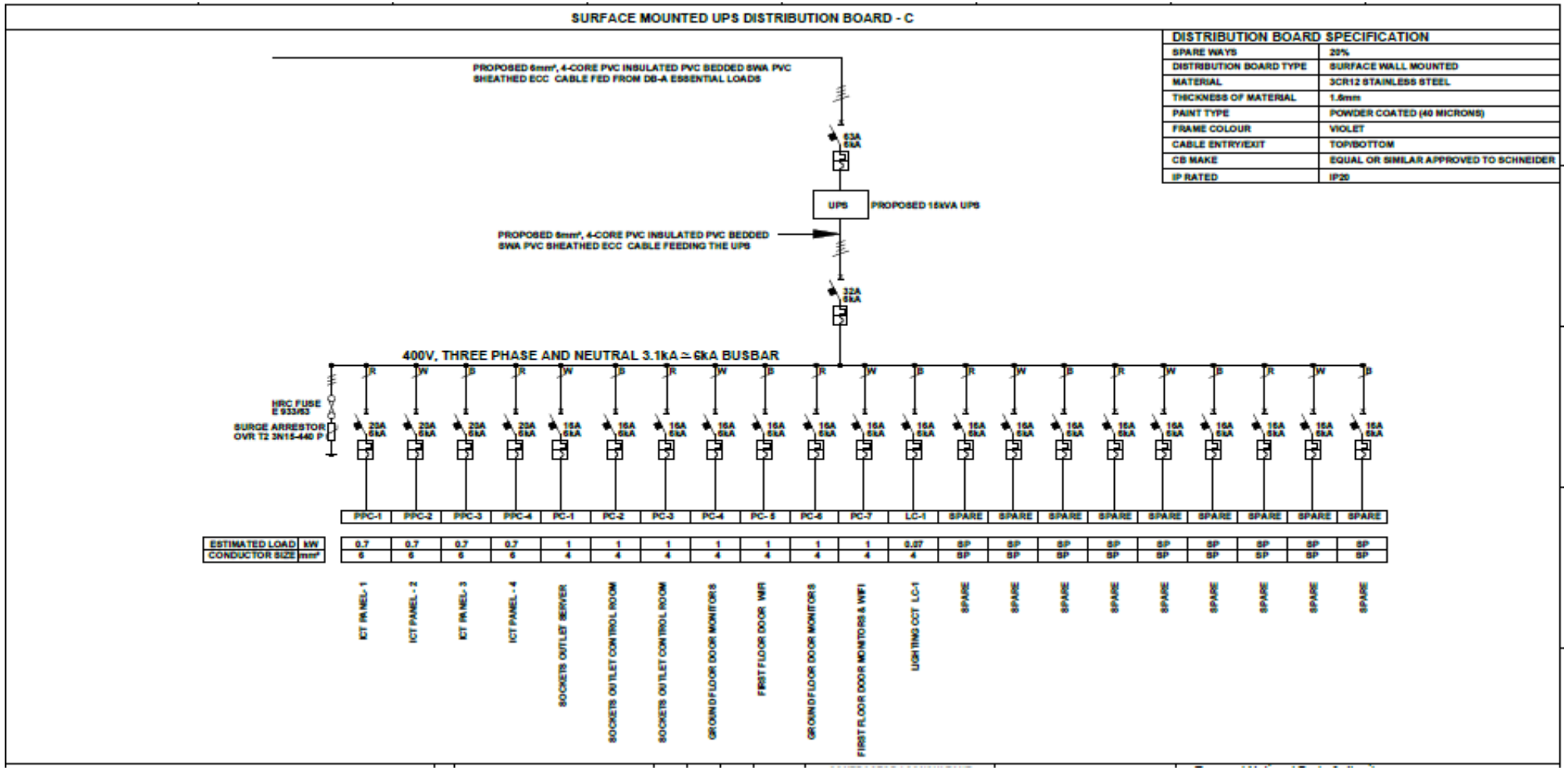
ELECTRICAL


DISTRIBUTION BOARD - A (NON- ESSENTIAL LOADS)
400V, THREE PHASE AND NEUTRAL, 7.5kA
10kA BUSBAR
DISTRIBUTION BOARD - A (ESSENTIAL LOADS)
400V, THREE PHASE AND NEUTRAL, 6.3kA
6kA BUSBAR
DISTRIBUTION BOARD SPECIFICATION

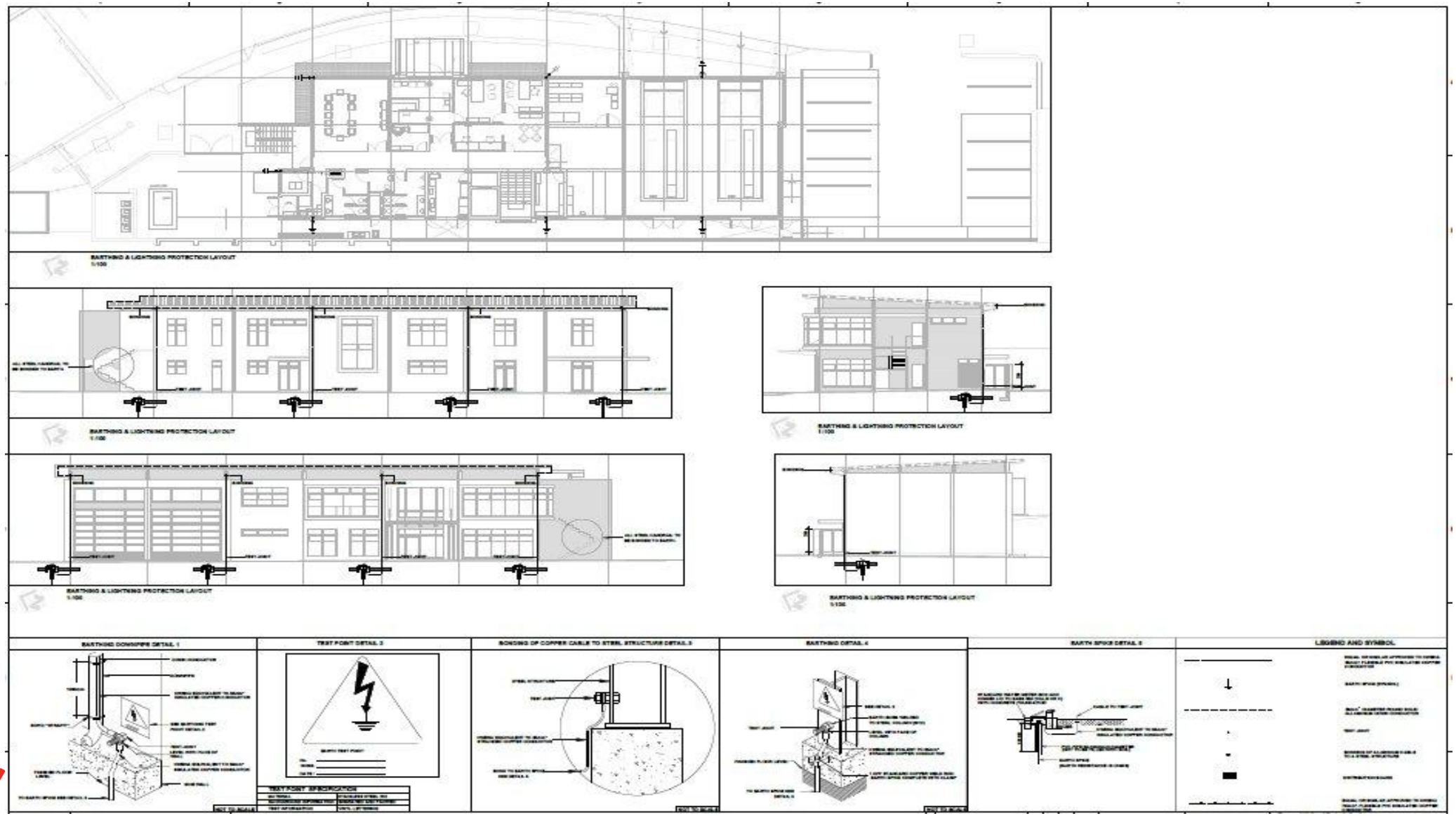
ELECTRICAL


DISTRIBUTION BOARD - B (NON- ESSENTIAL LOADS)
400V, THREE PHASE AND NEUTRAL 3.4kA 6kA BUSBAR
DISTRIBUTION BOARD - B (ESSENTIAL LOADS)
400V, THREE PHASE AND NEUTRAL 2.7kA 6kA BUSBAR
DISTRIBUTION BOARD WARNING LABEL
DISTRIBUTION BOARD SPECIFICATION

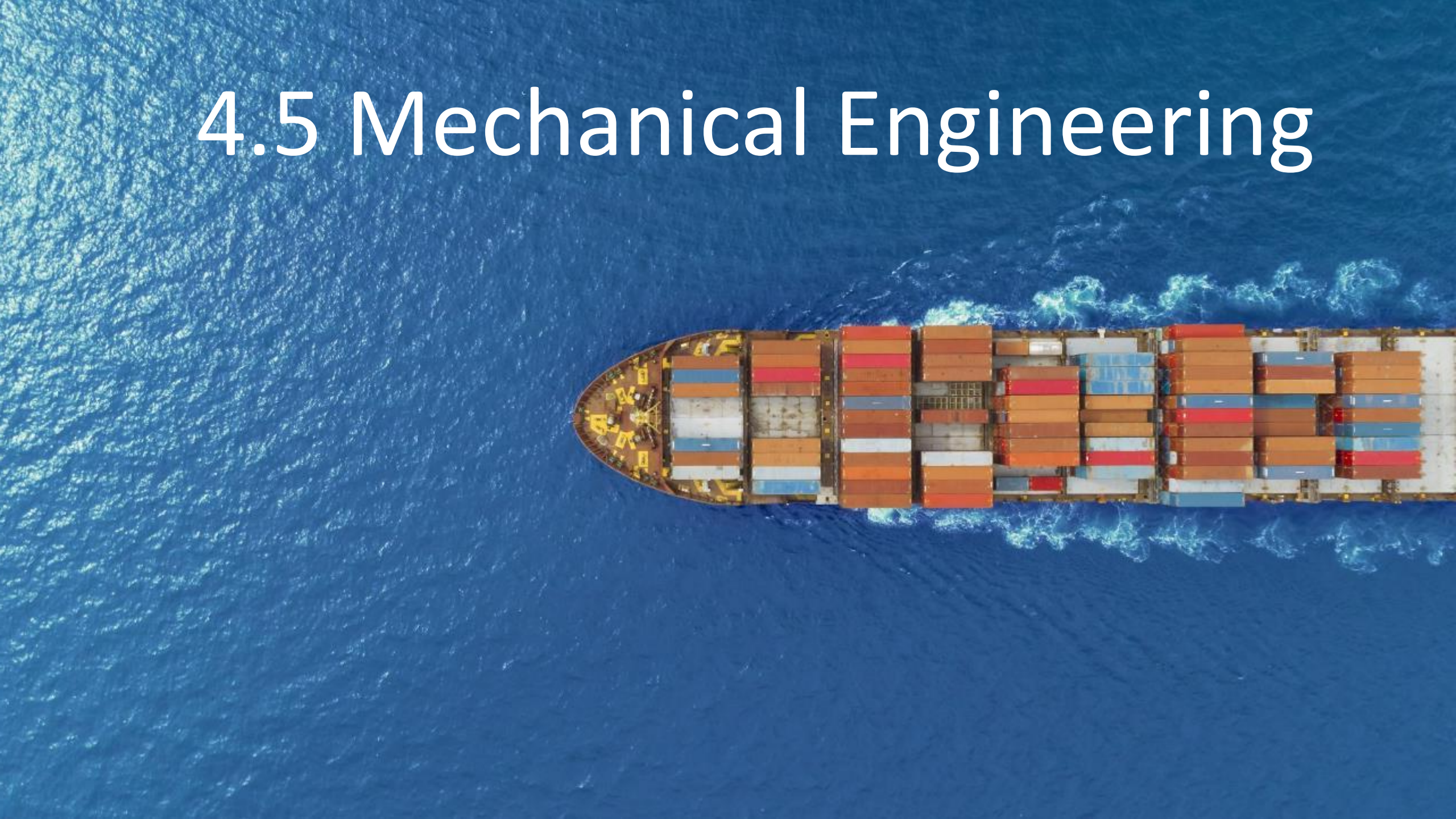
ELECTRICAL


SURFACE MOUNTED UPS DISTRIBUTION BOARD - C
DISTRIBUTION BOARD SPECIFICATION
SPARE WAYS 20%
DISTRIBUTION BOARD TYPE SURFACE WALL MOUNTED
MATERIAL 3CR12 STAINLESS STEEL
THICKNESS OF MATERIAL 1.6mm
PAINT TYPE POWDER COATED (40 MICRONS)
FRAME COLOUR VIOLET
CABLE ENTRY/EXIT TOP/BOTTOM
CB MAKE EQUAL OR SIMILAR APPROVED TO SCHNEIDER
IP RATED IP20
PROPOSED 6mm², 4-CORE PVC INSULATED PVC BEDDED SWA PVC SHEATHED ECC CABLE FED FROM DB-A ESSENTIAL LOADS
63A 6kA
UPS
PROPOSED 15kVA UPS
PROPOSED 6mm², 4-CORE PVC INSULATED PVC BEDDED SWA PVC SHEATHED ECC CABLE FEEDING THE UPS
32A 6kA
400V, THREE PHASE AND NEUTRAL 3.1kA ≃ 6kA BUSBAR
HRC FUSE E 93/63
SURGE ARRESTOR OVR T2 3N15-440 P
PPC-1 PPC-2 PPC-3 PPC-4 PC-1 PC-2 PC-3 PC-4 PC- 5 PC-6 PC-7 LC-1 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
ESTIMATED LOAD kW
CONDUCTOR SIZE mm²
ICT PANEL- 1
ICT PANEL - 2
ICT PANEL- 3
ICT PANEL - 4
SOCKETS OUTLET SERVER
SOCKETS OUTLET CONTROL ROOM
SOCKETS OUTLET CONTROL ROOM
GROUND FLOOR DOOR MONITORS
FIRST FLOOR DOOR WIR
GROUND FLOOR DOOR MONITORS
FIRST FLOOR DOOR MONITORS & WIFI
LIGHTING CCT LC-1
SPARE

ELECTRICAL


EARTHING & LIGHTNING PROTECTION LAYOUT
1:100
EARTHING & LIGHTNING PROTECTION LAYOUT
1:100
EARTHING & LIGHTNING PROTECTION LAYOUT
1:100
EARTHING & LIGHTNING PROTECTION LAYOUT
1:100
EARTHING & LIGHTNING PROTECTION LAYOUT
1:100
EARTHING DOWNPIPE DETAIL 1
TEST POINT DETAIL 2
TEST POINT SPECIFICATION
BONDING OF COPPER CABLE TO STEEL STRUCTURE DETAIL 3
EARTHING DETAIL 4
EARTH SPIKE DETAIL 5
LEGEND AND SYMBOL

4.5 Mechanical Engineering



MECHANICAL

Mechanical Scope:

- Fire protection design, including fire suppression (hydrants, hose reels, extinguishers, gas suppression system) and fire detection (smoke/heat detectors, fire panels, manual call points).
- Water reticulation, including cold and hot water supply to plumbing fixtures. Hot water is stored and provided by a heat exchanger connected to the AC system creating a closed system where, as much energy as possible is not wasted.
- HVAC system, includes a VRF system with heat recovery units, this system allows indoor units to transfer heat using a network of refrigerant pipes, providing simultaneous heating and cooling. This process redistributes energy within the building, leading to significant energy savings and reduced operating costs. The system also includes forced fresh air ventilation, for office spaces, extraction of air for ablutions and fire truck area, creating a safe environment for employees to work and inhabit.
- Lift specification for installation on the 2-story building, complete with selected safety system required for safe use.

MECHANICAL

The Mechanical infrastructure shall comply with the following relevant South African Acts and Regulations and shall apply in the order of precedence as listed below:

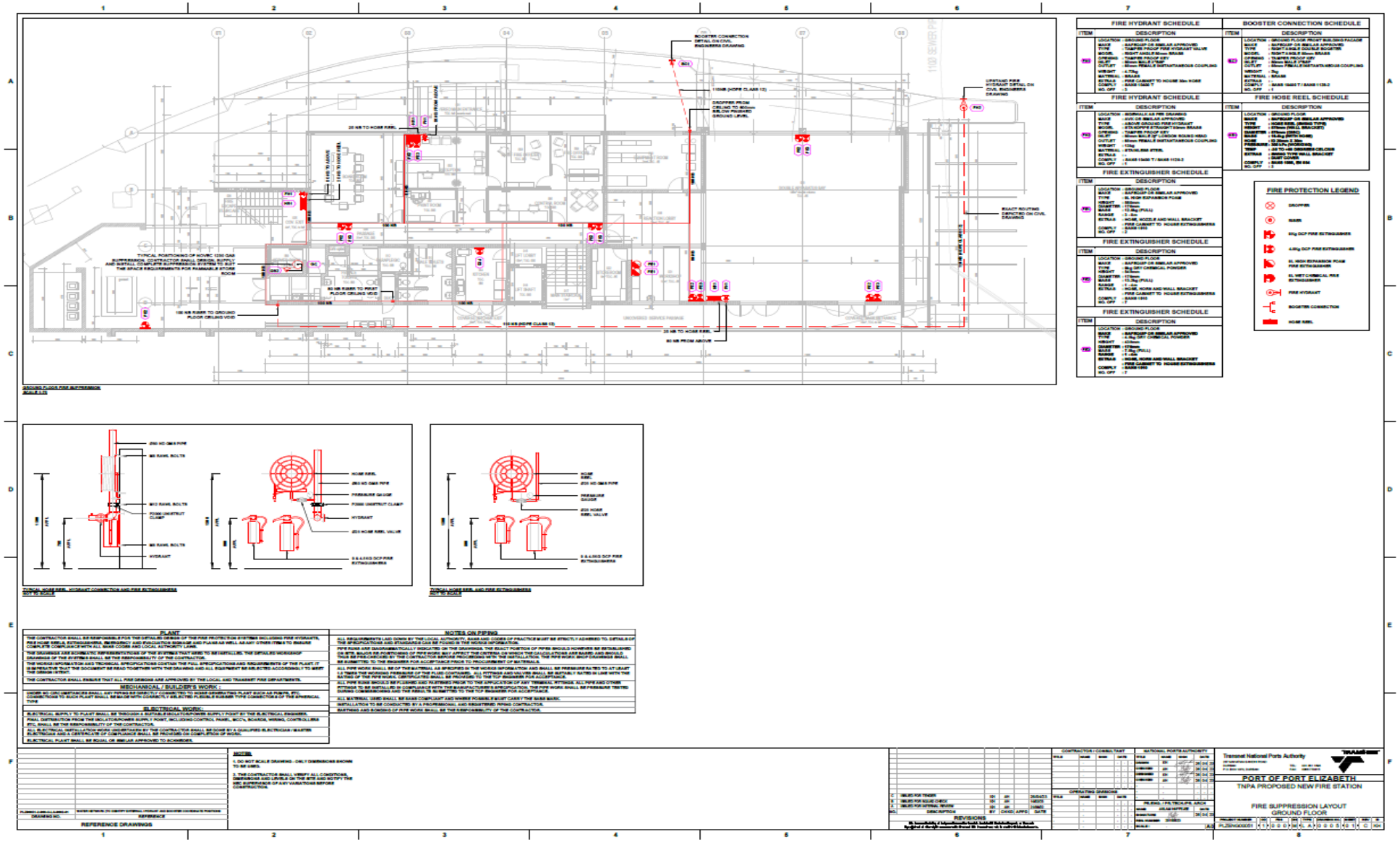
- Occupational Health and Safety Act 85 of 1993
- The S.A. National Building Regulations and Building Standards Act. (Act 103 of 1977)
- South African National Standards and Codes of Practice
- IEC Standards and Recommendations
- International Standards and Codes – ISO, DIN, BS, ASME, ASCE, ANSI, ASTM, EU
- All local, provincial or S.A. Government laws in force at the time
- Construction Regulations 2014
- National Heritage Resource Act (Act 25 of 1999)

MECHANICAL

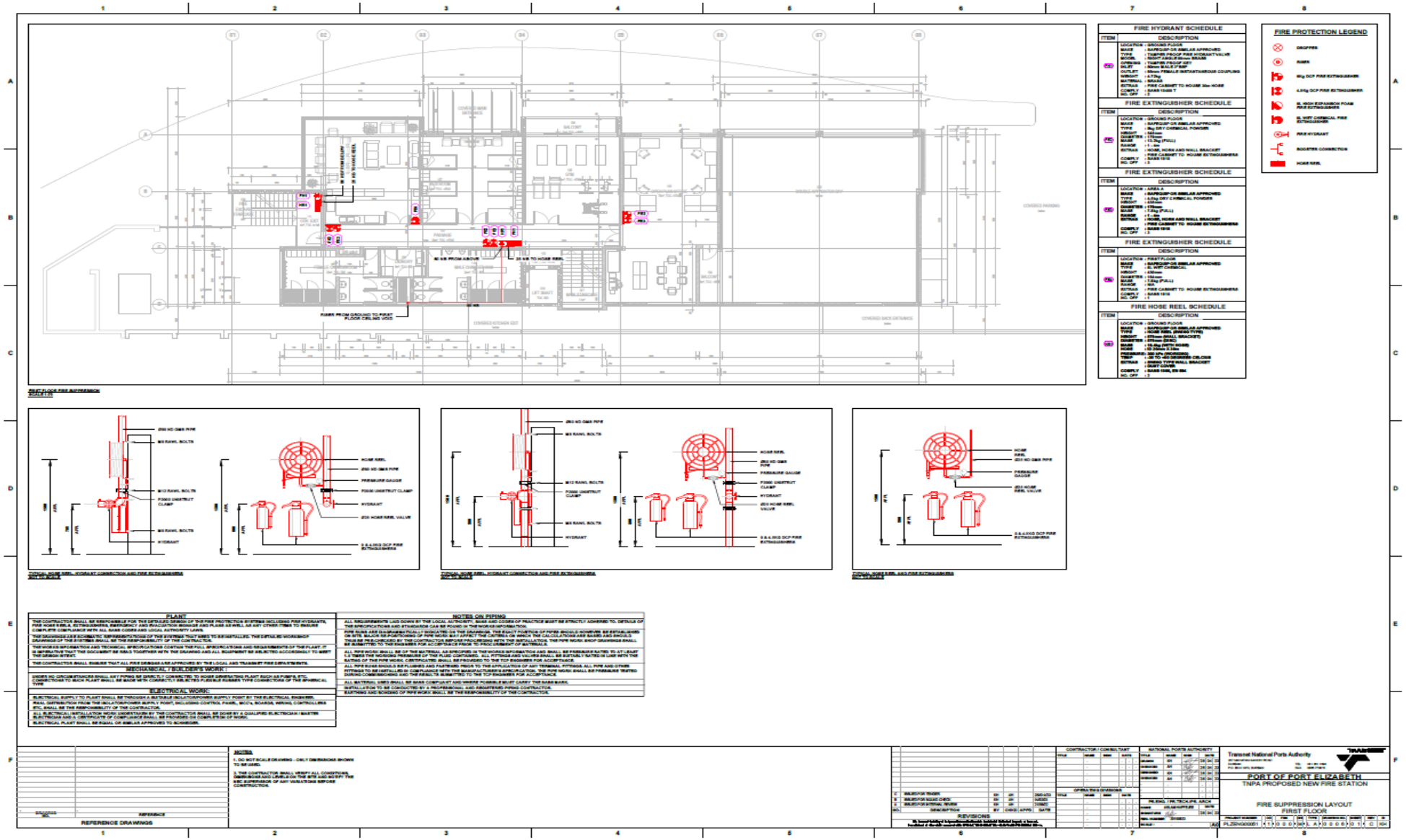
Mechanical Drawings and Documentation:

- Fire Suppression Ground and First Floor
- Fire Detection Ground and First Floor
- Fire Escape Route Ground and First Floor
- Water Reticulation Ground and First Floor
- HVAC Ground and First Floor, including Elevations
- Fire Suppression and Detection Specifications
- Water Reticulation Specification
- HVAC System Specification
- Lift Specification

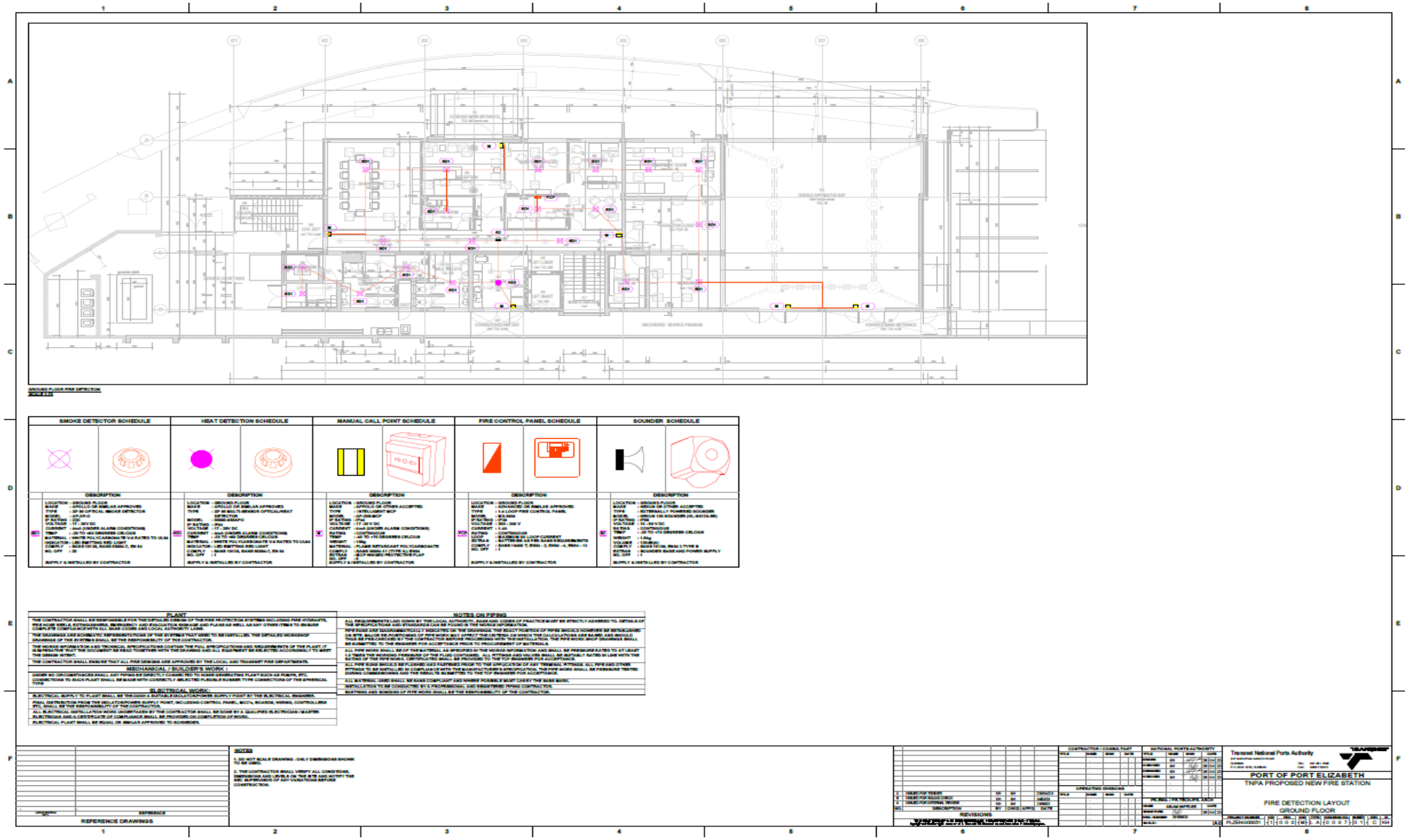
MECHANICAL


FIRE HYDRANT SCHEDULE
BOOSTER CONNECTION SCHEDULE
FIRE HYDRANT SCHEDULE
FIRE HOSE REEL SCHEDULE
FIRE EXTINGUISHER SCHEDULE
FIRE EXTINGUISHER SCHEDULE
FIRE EXTINGUISHER SCHEDULE
FIRE PROTECTION LEGEND
PLANT
NOTES ON PIPING
MECHANICAL / BUILDER'S WORK :
ELECTRICAL WORK :
NOTES
REFERENCE DRAWINGS
REVISIONS
Transnet National Ports Authority
PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
FIRE SUPPRESSION LAYOUT
GROUND FLOOR

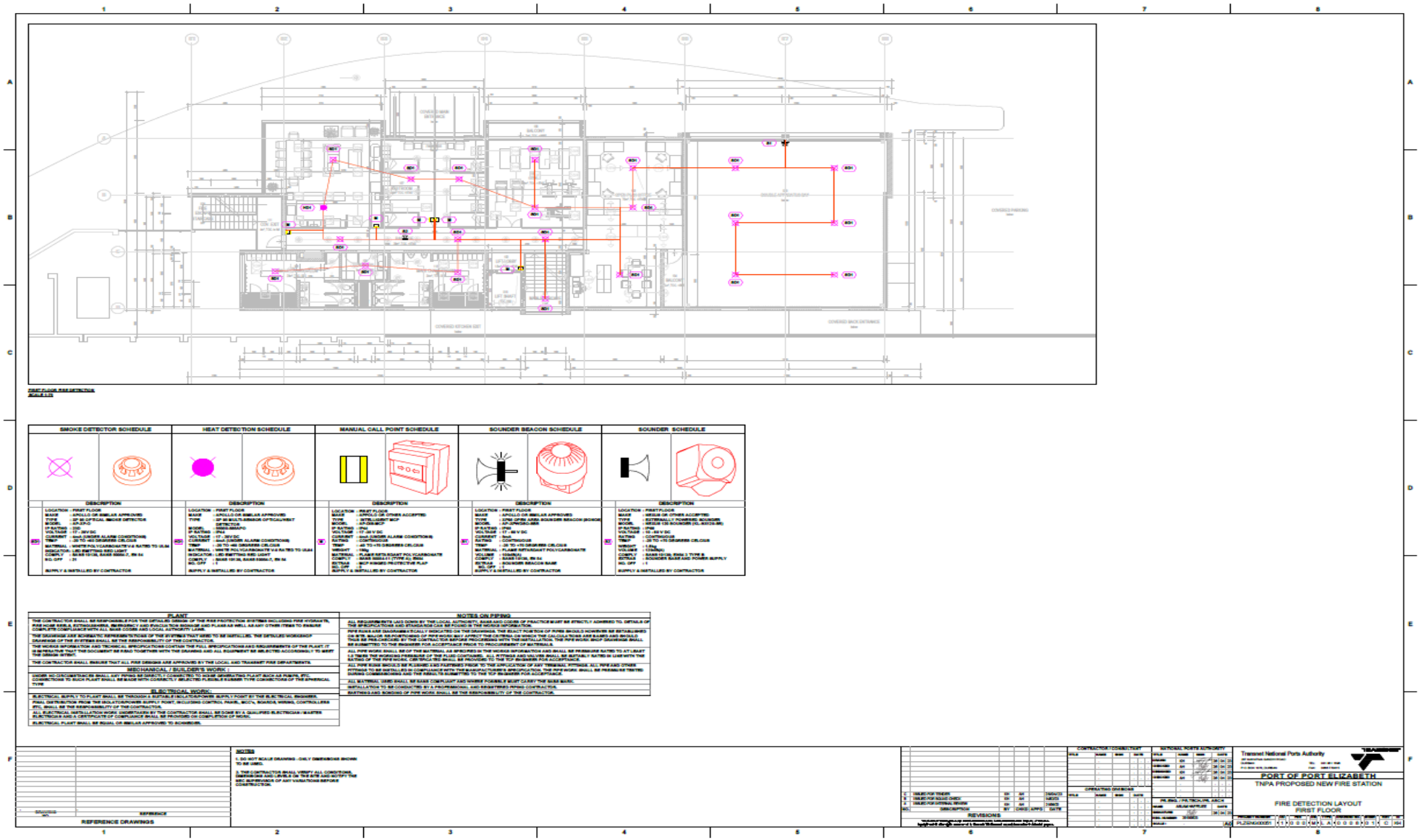
MECHANICAL


FIRE HYDRANT SCHEDULE
FIRE EXTINGUISHER SCHEDULE
FIRE EXTINGUISHER SCHEDULE
FIRE EXTINGUISHER SCHEDULE
FIRE HOSE REEL SCHEDULE
FIRE PROTECTION LEGEND
PLANT
MECHANICAL BUILDER'S WORK :
ELECTRICAL WORK:
NOTES ON PIPING
REFERENCE DRAWINGS
REVISIONS
Transnet National Ports Authority
PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
FIRE SUPPRESSION LAYOUT
FIRST FLOOR

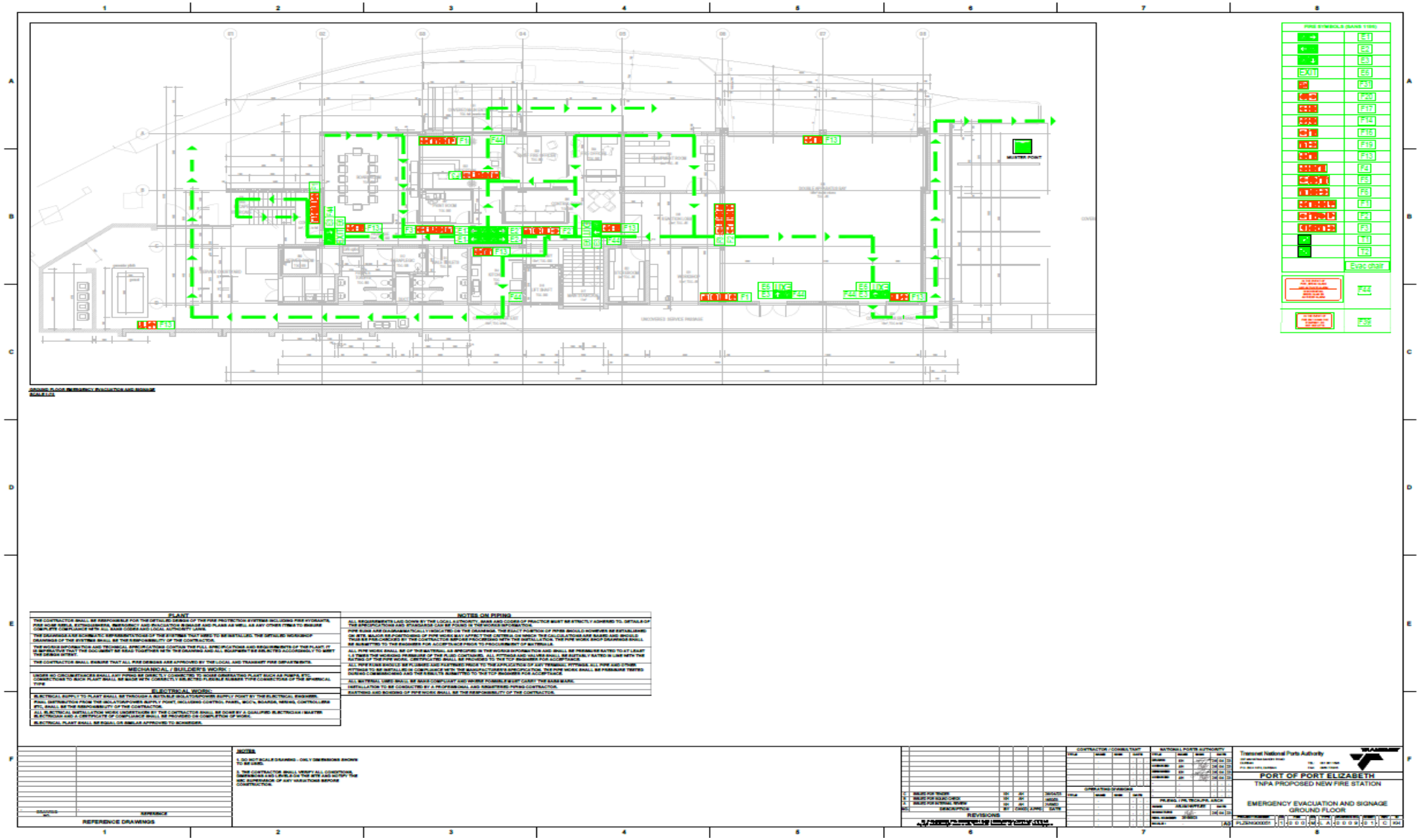
MECHANICAL


SMOKE DETECTOR SCHEDULE
HEAT DETECTION SCHEDULE
MANUAL CALL POINT SCHEDULE
FIRE CONTROL PANEL SCHEDULE
SOUNDER SCHEDULE
PLANT
MECHANICAL / BUILDER'S WORK :
ELECTRICAL WORK:
NOTES ON PIPING
REFERENCE DRAWINGS
NOTES
REVISIONS
CONTRACTOR / CONSULTANT
NATIONAL PORTS AUTHORITY
Transnet National Ports Authority
PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
FIRE DETECTION LAYOUT
GROUND FLOOR

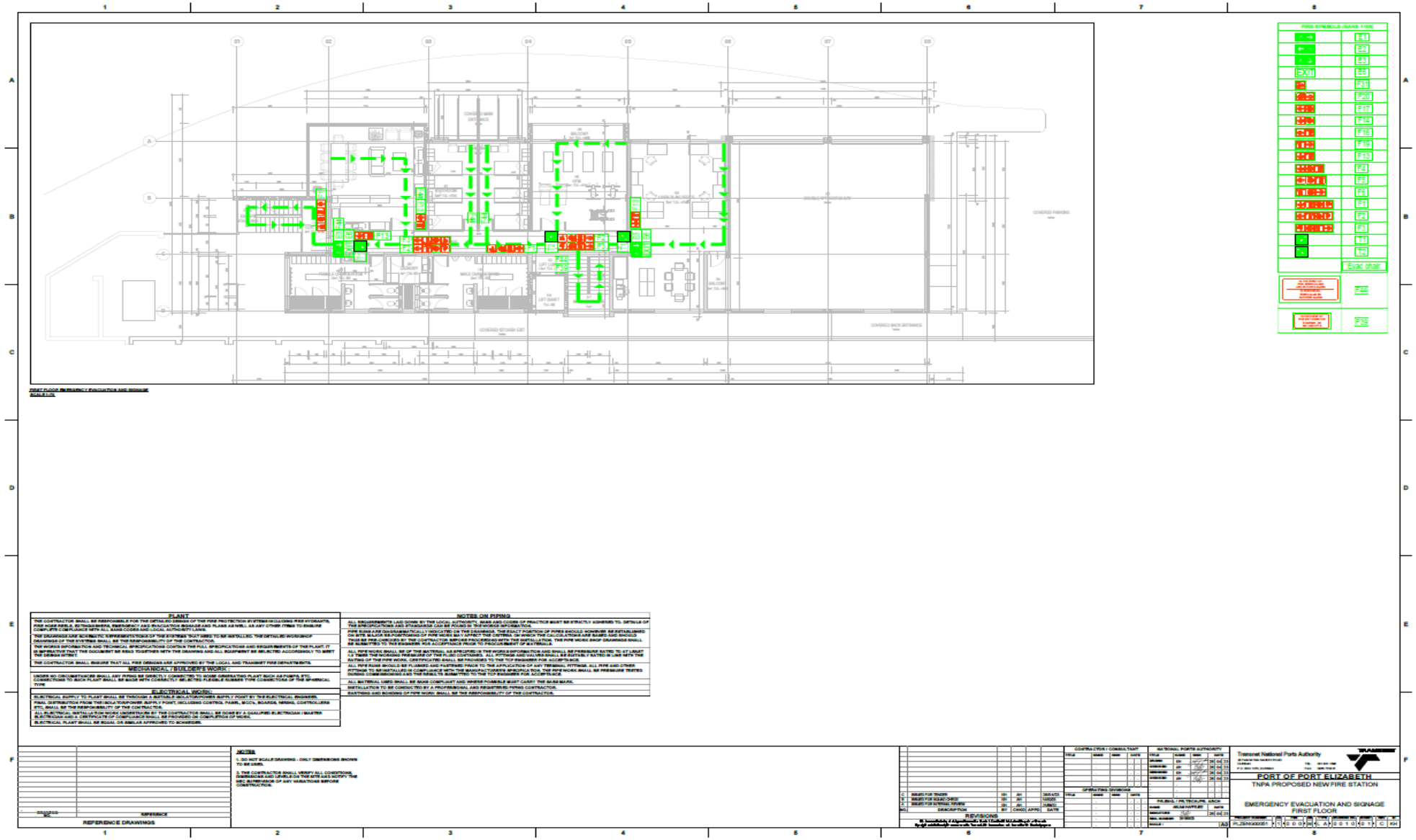
MECHANICAL


SMOKE DETECTOR SCHEDULE
HEAT DETECTION SCHEDULE
MANUAL CALL POINT SCHEDULE
SOUNDER BEACON SCHEDULE
SOUNDER SCHEDULE
PLANT
MECHANICAL / BUILDER'S WORK :
ELECTRICAL WORK:
NOTES ON PIPING
REFERENCE DRAWINGS
NOTES
REVISIONS
Transnet National Ports Authority
PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
FIRE DETECTION LAYOUT
FIRST FLOOR

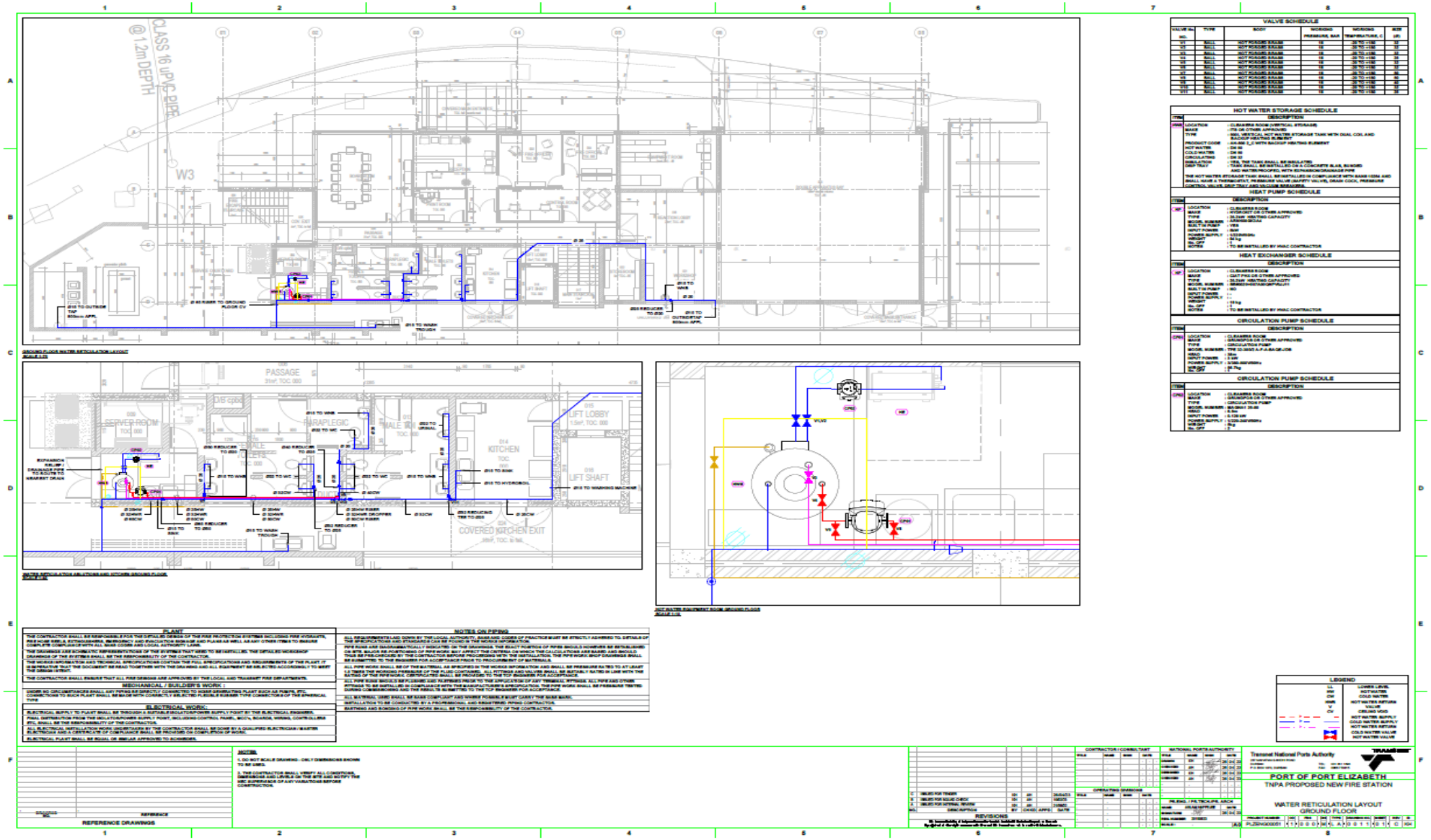
MECHANICAL


PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
EMERGENCY EVACUATION AND SIGNAGE
GROUND FLOOR
Transnet National Ports Authority
Evac chair

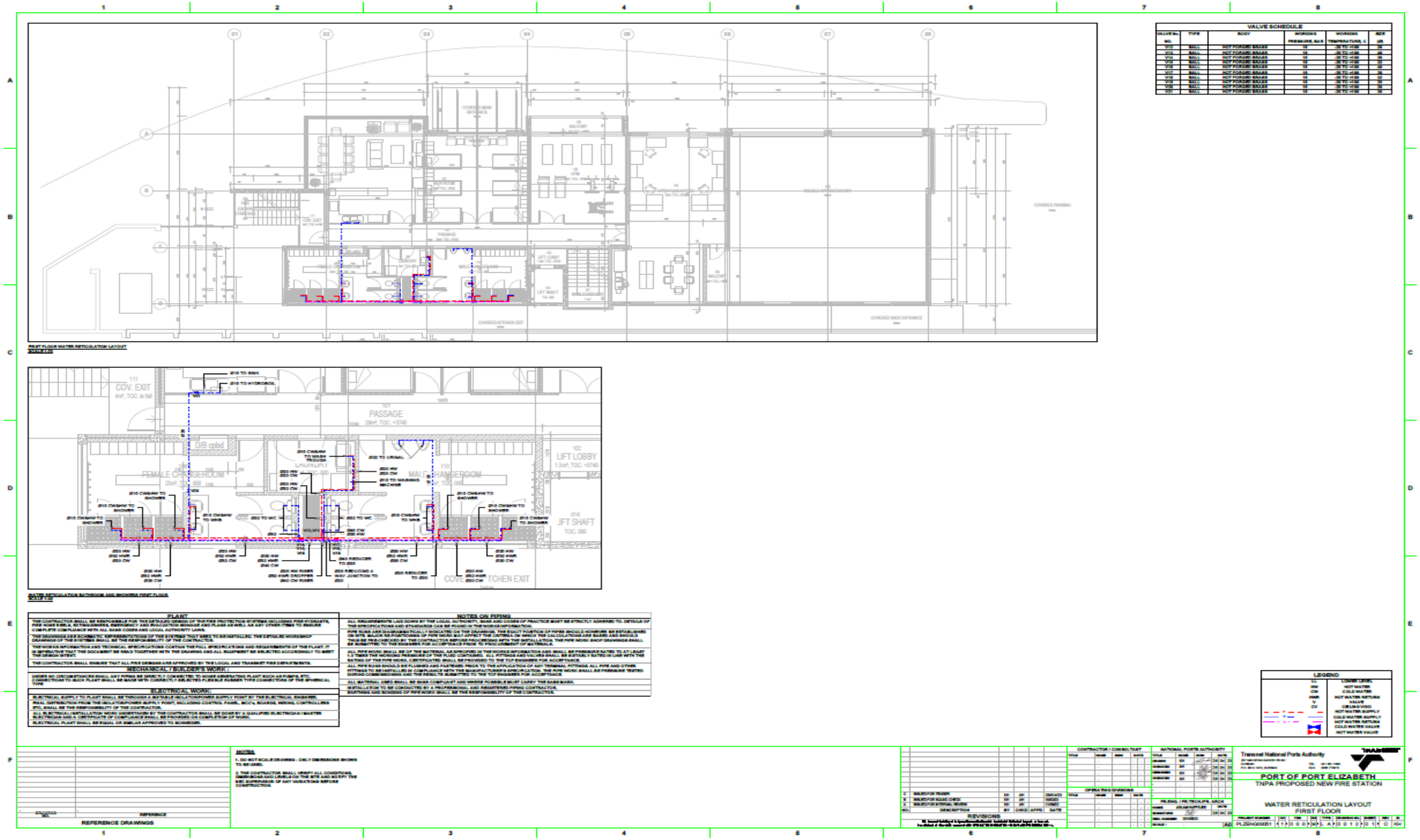
MECHANICAL


PLANT
MECHANICAL / BUILDER'S WORK :
ELECTRICAL WORK:
NOTES ON PIPING
REFERENCE DRAWINGS
REVISIONS
CONSTRUCTION / CONSULTANT
NATIONAL PORTS AUTHORITY
OPERATING DIVISIONS
Transnet National Ports Authority
PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
EMERGENCY EVACUATION AND SIGNAGE
FIRST FLOOR
Evac chair

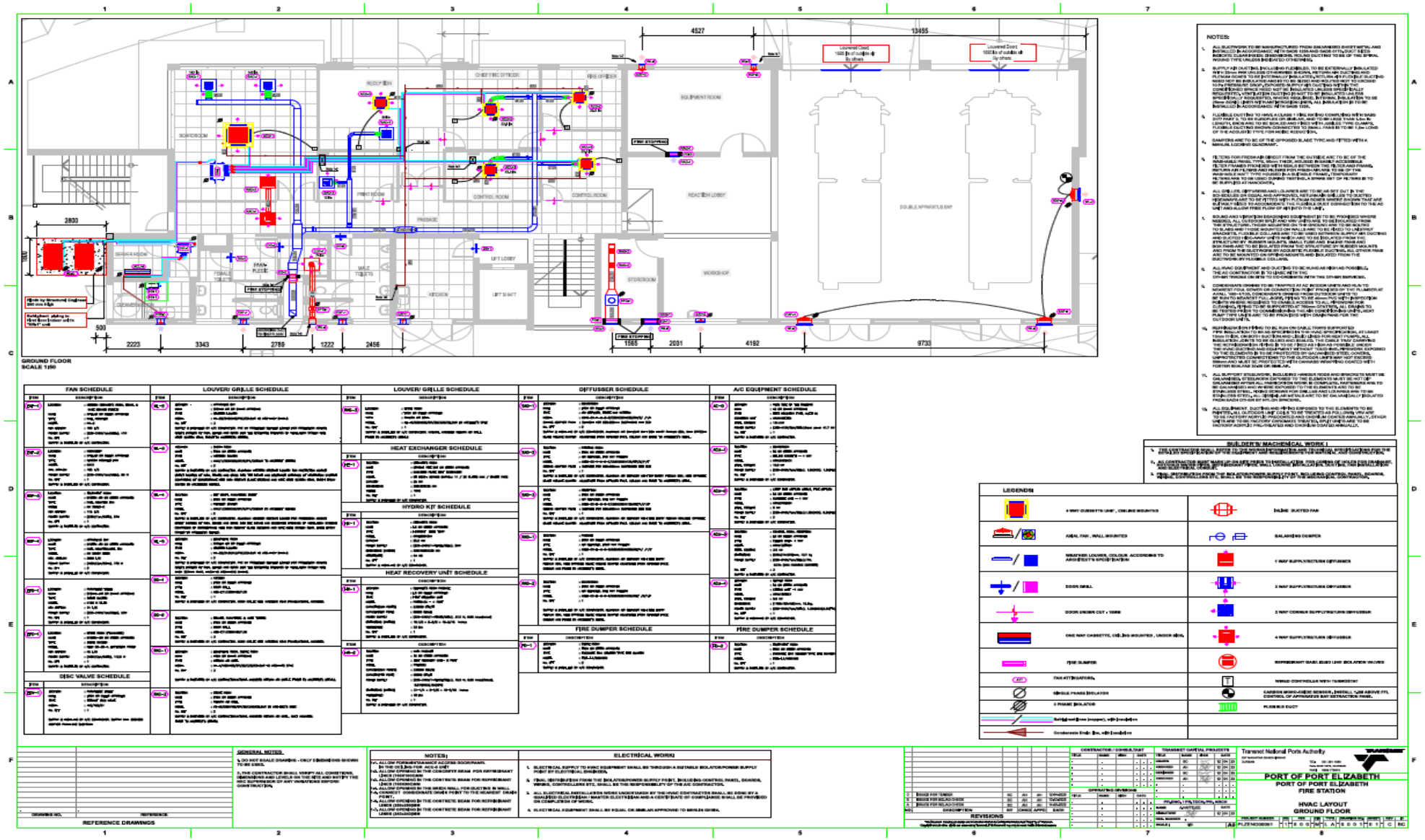
MECHANICAL


CLASS 16 UPVC PIPE @ 1.2m DEPTH
W3
VALVE SCHEDULE
HOT WATER STORAGE SCHEDULE
HEAT PUMP SCHEDULE
HEAT EXCHANGER SCHEDULE
CIRCULATION PUMP SCHEDULE
CIRCULATION PUMP SCHEDULE
PASSAGE
SERVER ROOM
PARAPLEGIC
MALE TOILETS
LIFT LOBBY
LIFT SHAFT
KITCHEN
COVERED KITCHEN EXIT
PLANT
MECHANICAL / BUILDER'S WORK :
ELECTRICAL WORK:
NOTES ON PIPING
LEGEND
REFERENCE DRAWINGS
REVISIONS
Transnet National Ports Authority
PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
WATER RETICULATION LAYOUT
GROUND FLOOR

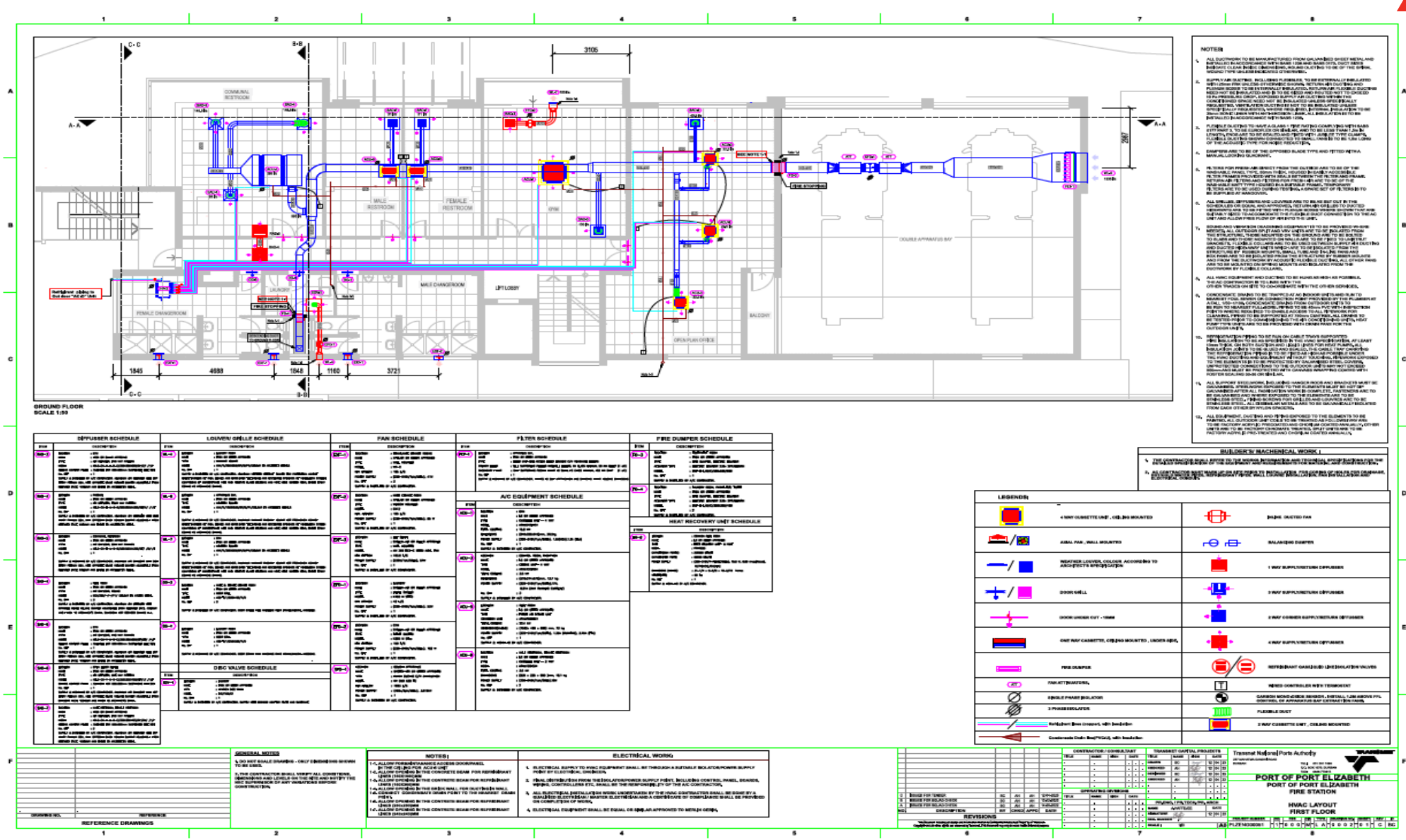
MECHANICAL


VALVE SCHEDULE
PLANT
MECHANICAL / BUILDER'S WORK :
ELECTRICAL WORK:
NOTES ON PIPING
LEGEND
NOTES
REFERENCE DRAWINGS
REVISIONS
CONTRACTOR / CONSULTANT
NATIONAL PORTS AUTHORITY
OPERATING DIVISIONS
Transnet National Ports Authority
PORT OF PORT ELIZABETH
TNPA PROPOSED NEW FIRE STATION
WATER RETICULATION LAYOUT
FIRST FLOOR
PLZSHG00001

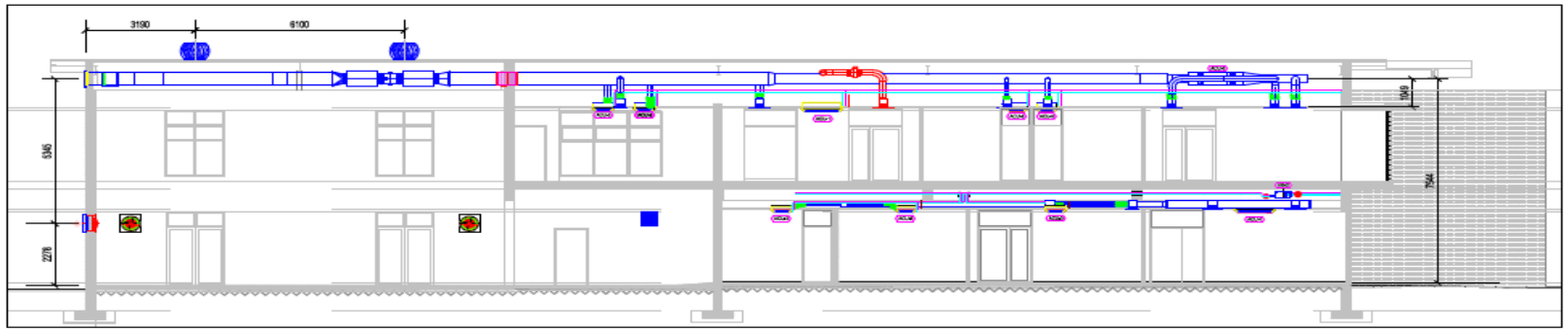
MECHANICAL


GROUND FLOOR
SCALE 1:50
FAN SCHEDULE
LOUVER/ GRILLE SCHEDULE
LOUVER/ GRILLE SCHEDULE
DIFFUSER SCHEDULE
A/C EQUIPMENT SCHEDULE
HEAT EXCHANGER SCHEDULE
HYDRO KIT SCHEDULE
HEAT RECOVERY UNIT SCHEDULE
DISC VALVE SCHEDULE
FIRE DUMPER SCHEDULE
FIRE DUMPER SCHEDULE
NOTES:
BUILDER'S MECHANICAL WORK
LEGENDS
GENERAL NOTES
ELECTRICAL WORKS
REFERENCE DRAWINGS
REVISIONS
Transnet National Ports Authority
PORT OF PORT ELIZABETH
PORT OF PORT ELIZABETH
FIRE STATION
HVAC LAYOUT
GROUND FLOOR

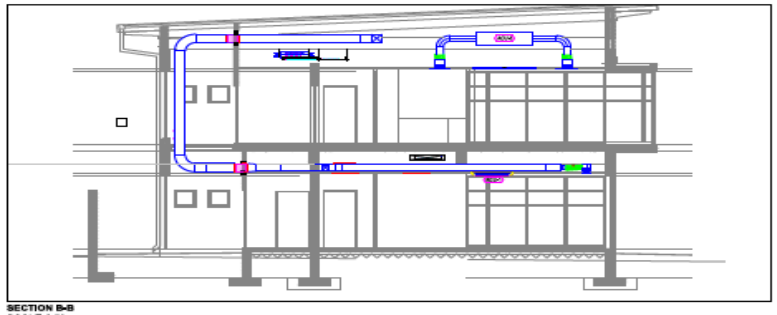
MECHANICAL


GROUND FLOOR
SCALE 1:50
DIFFUSER SCHEDULE
LOUVERS GRILLE SCHEDULE
FAN SCHEDULE
FILTER SCHEDULE
FIRE DAMPER SCHEDULE
A/C EQUIPMENT SCHEDULE
HEAT RECOVERY UNIT SCHEDULE
DISC VALVE SCHEDULE
BUILDER'S MECHANICAL WORK
LEGENDS
REFERENCE DRAWINGS
PORT OF PORT ELIZABETH
PORT OF PORT ELIZABETH
FIRE STATION
HVAC LAYOUT
FIRST FLOOR

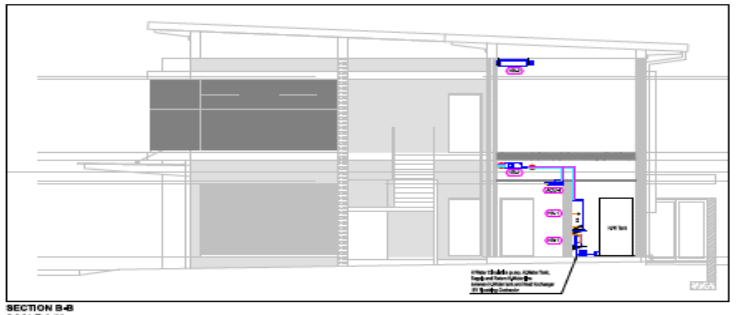
MECHANICAL



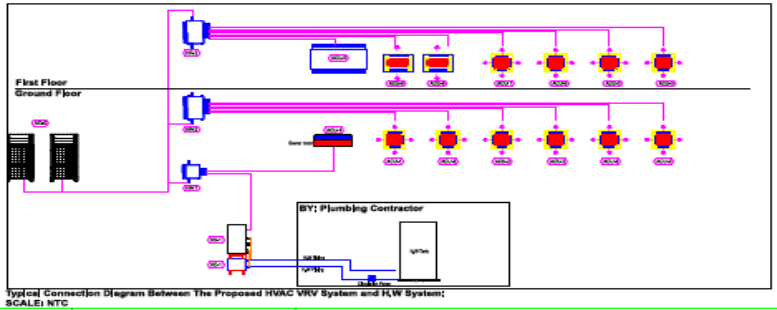
SECTION A-A
SCALE 1:50



SECTION B-B
SCALE 1:50



SECTION B-B
SCALE 1:50



Typical Connection Diagram Between The Proposed HVAC VRV System and H.W System:
SCALE: NTC

REFERENCE DRAWINGS

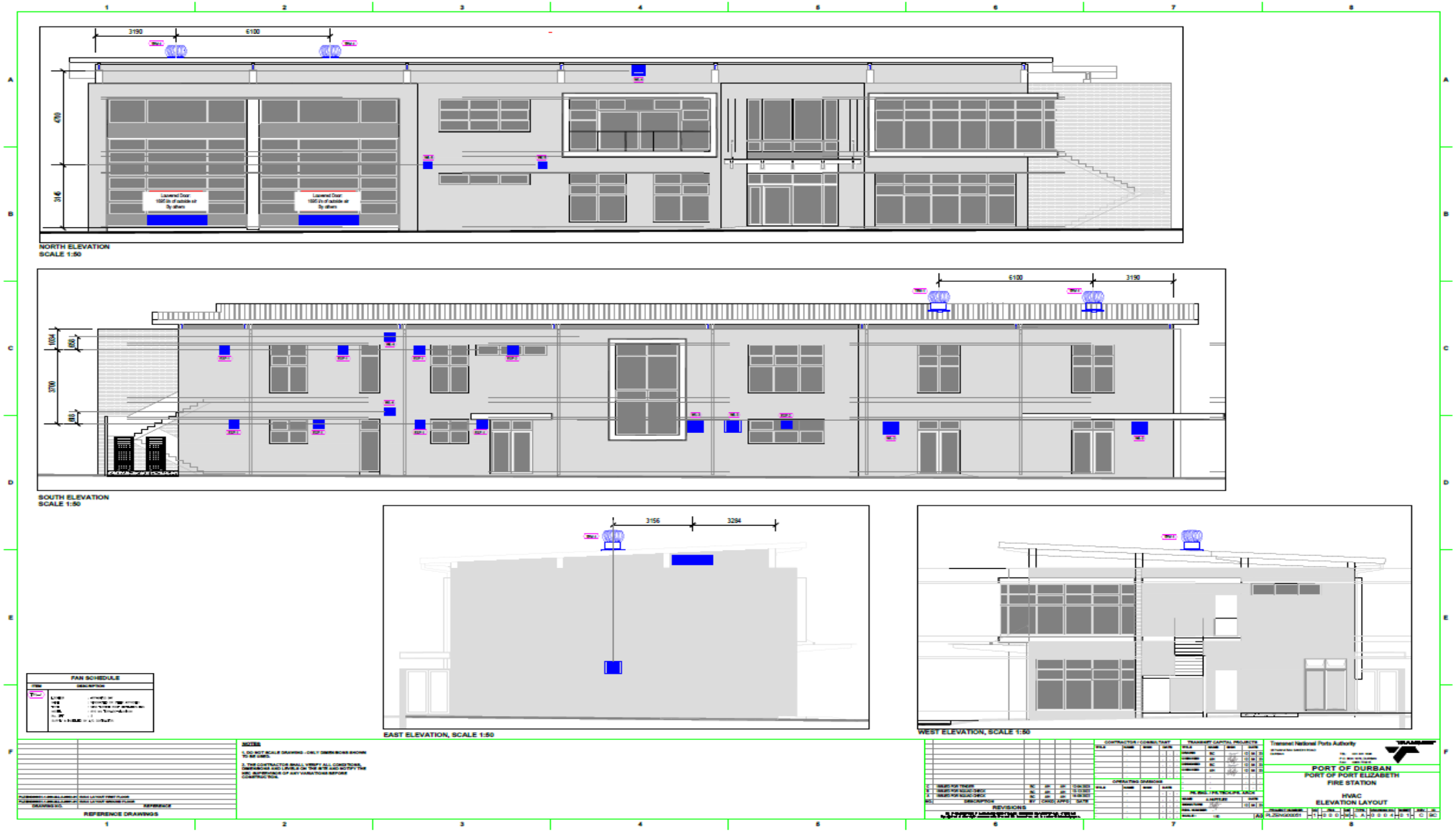
REVISIONS

Transnet National Ports Authority

PORT OF DURBAN
PORT OF PORT ELIZABETH
FIRE STATION

HVAC
SECTION LAYOUT

MECHANICAL


NORTH ELEVATION
SCALE 1:50
SOUTH ELEVATION
SCALE 1:50
EAST ELEVATION, SCALE 1:50
WEST ELEVATION, SCALE 1:50
FAN SCHEDULE
REFERENCE DRAWINGS
REVISIONS
Transnet National Ports Authority
PORT OF DURBAN
PORT OF PORT ELIZABETH
FIRE STATION
HVAC
ELEVATION LAYOUT

4.6 Control & Inst. Engineering

CONTROL AND INSTRUMENTATION

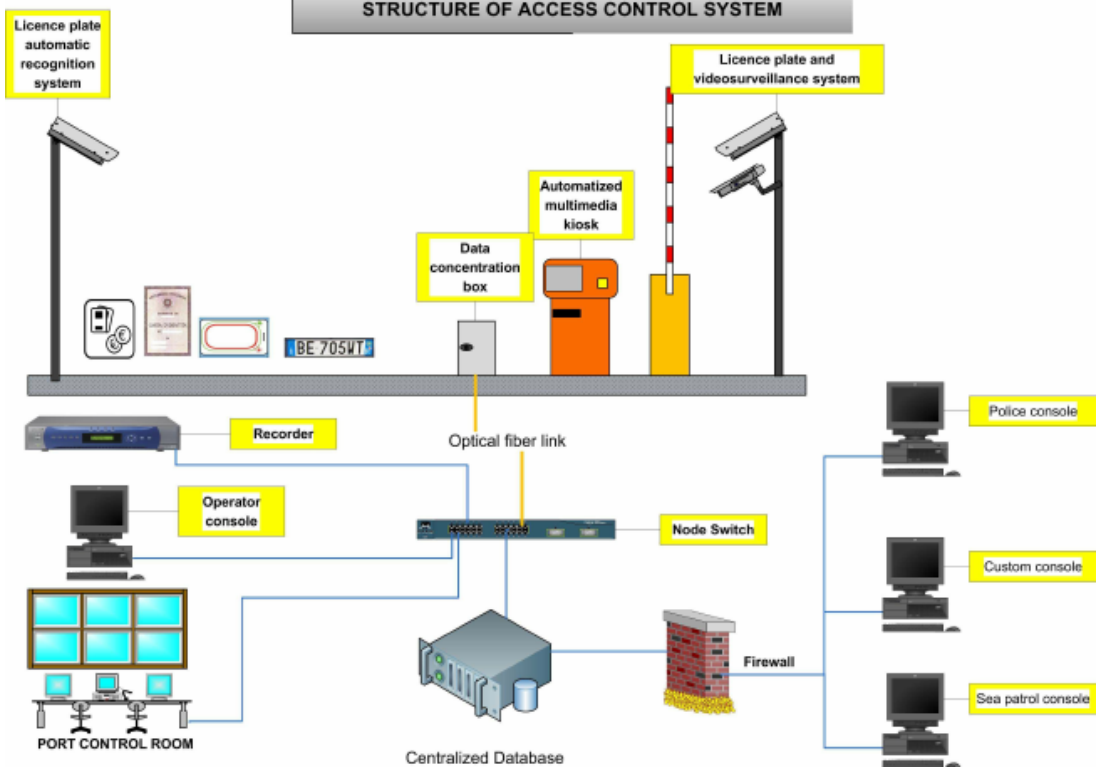
The engineering scope and requirements for C&I consist of the following:

a. Provision of Access Control (with time and attendance)

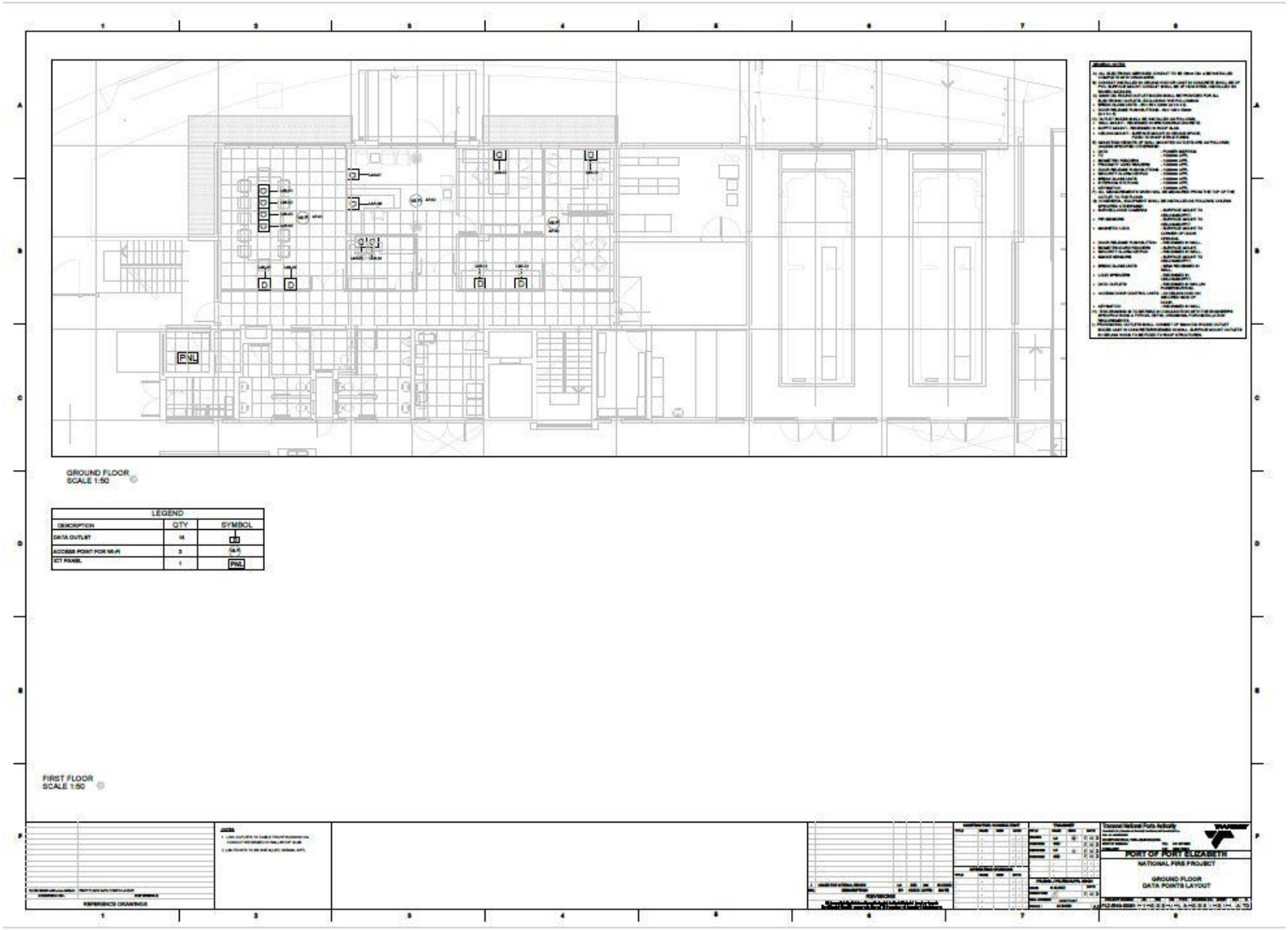
b. Provision of closed-circuit television (CCTV)

c. Provision of ICT (local area network (LAN) points and Wi-Fi)

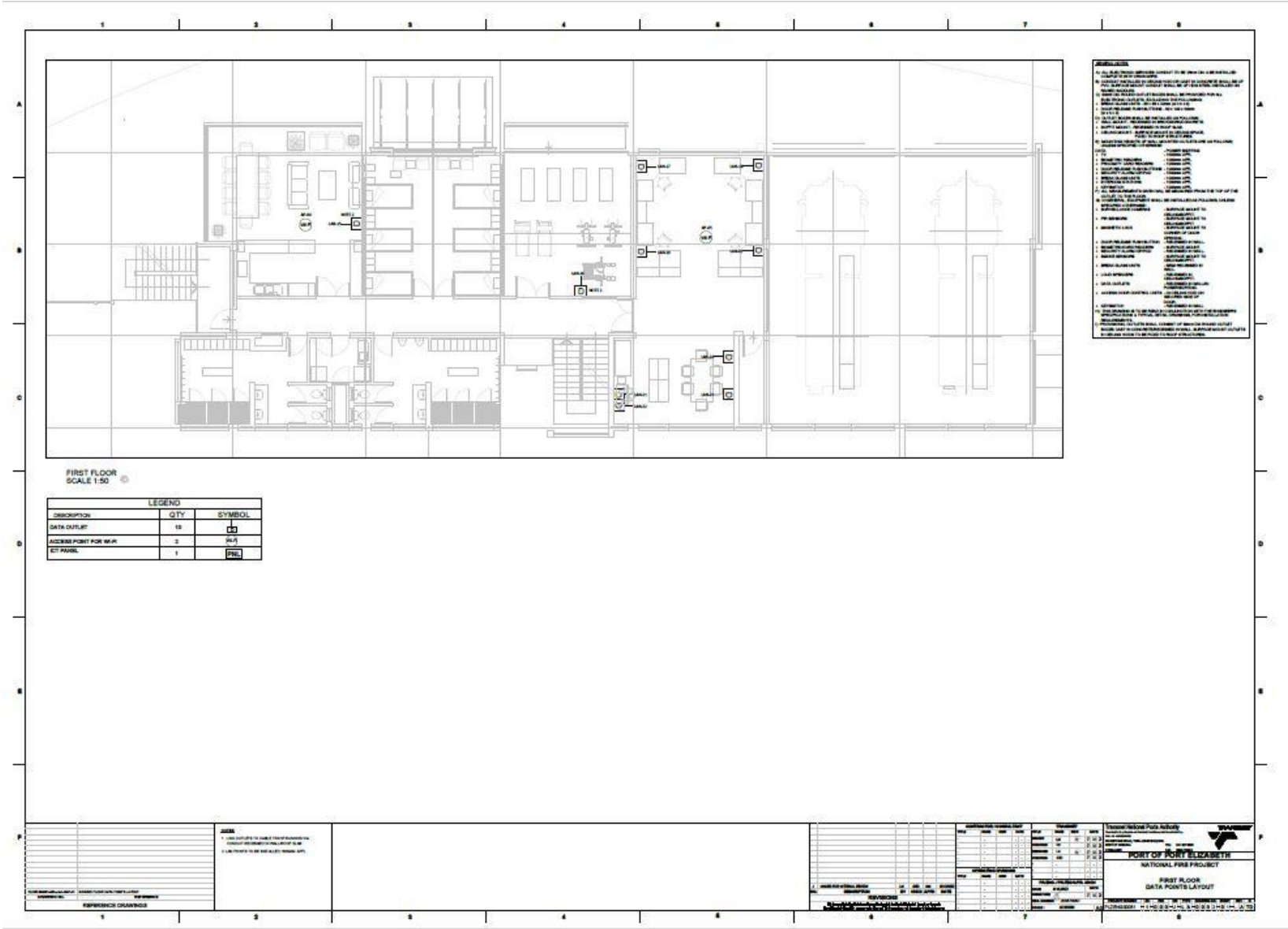
d. Public Address and Digital Signage System



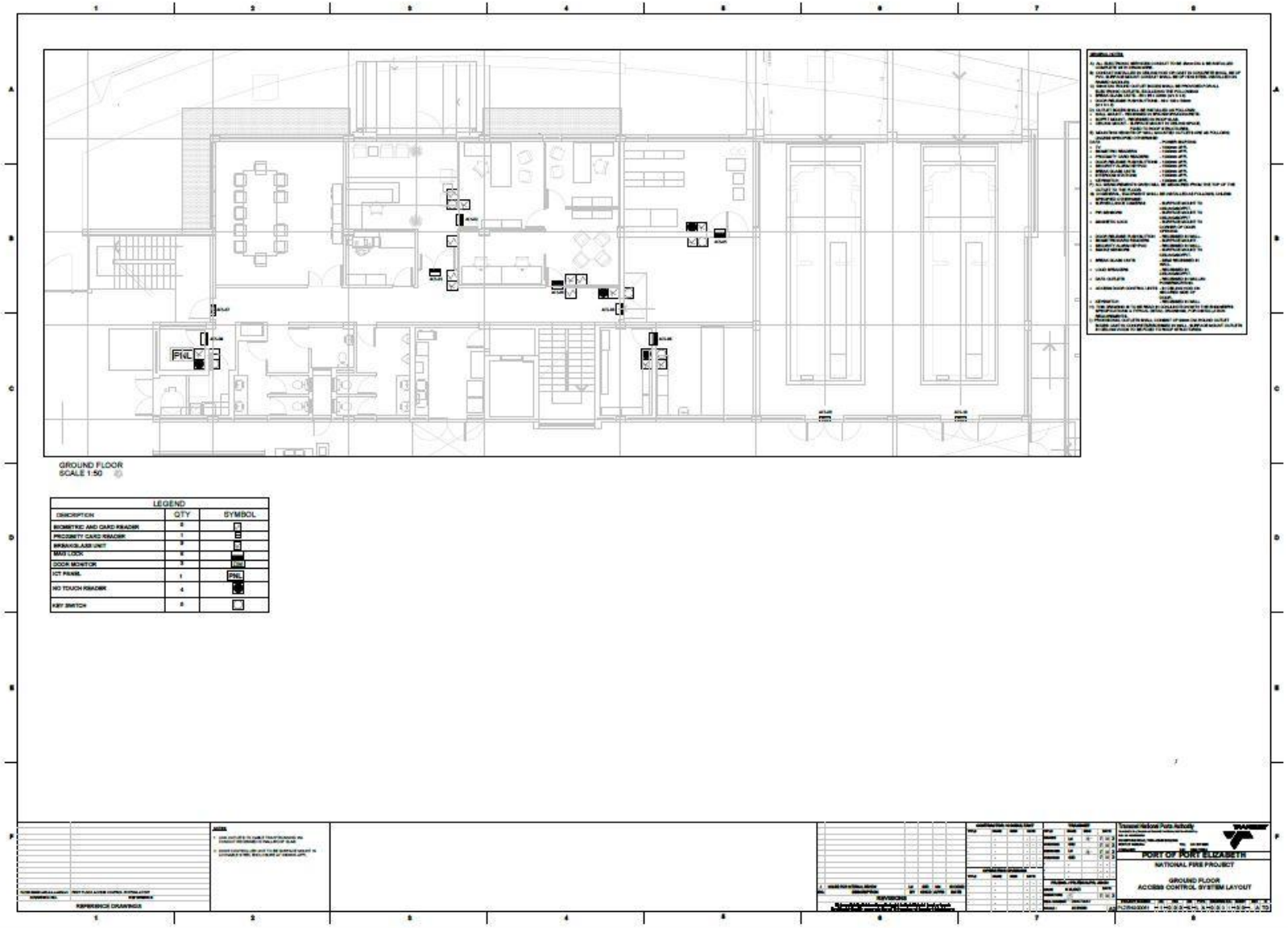
CONTROL AND INSTRUMENTATION



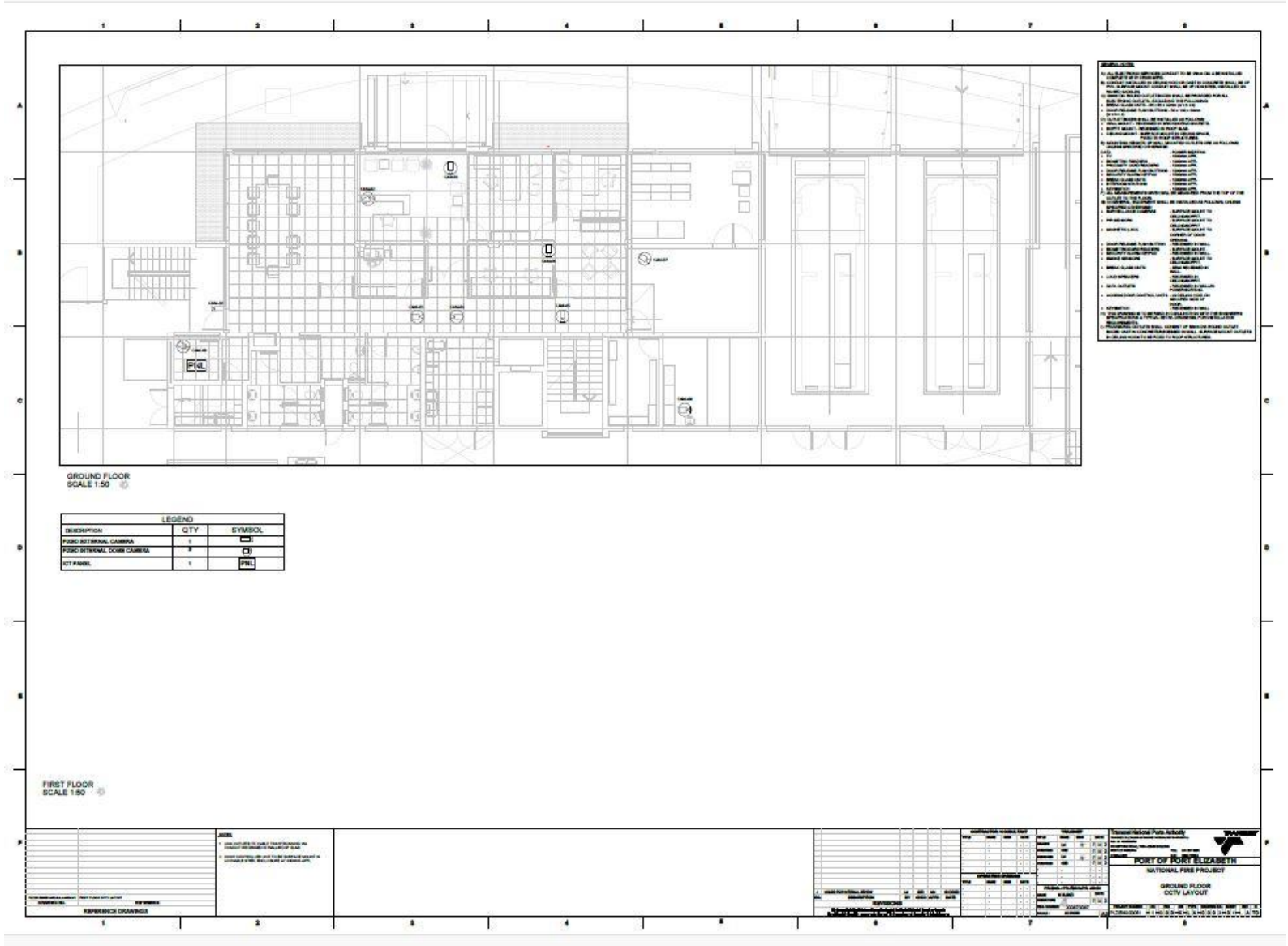
ELECTRICAL


FIRST FLOOR
SCALE 1:50
LEGEND
DESCRIPTION
QTY
SYMBOL
DATA OUTLET
10
ACCESS POINT FOR WI-FI
2
WI-FI
ICT PANEL
1
PNL
PORT OF PORT ELIZABETH
NATIONAL FIRE PROJECT
FIRST FLOOR
DATA POINTS LAYOUT

CONTROL AND INSTRUMENTATION – ACCESS CONTROL SYSTEM



CONTROL AND INSTRUMENTATION – CCTV SURVEILANCE



CONTROL AND INSTRUMENTATION – PUBLIC ADDRESS SYSTEM

HEALTH & SAFETY

Submit the following documents as per evaluation criteria:

1. Project specific HS Plan
2. Valid letter of good standing
3. HS Policy (signed and dated)
4. Incident Investigation Plan
5. Emergency Plan
6. BRA covering activities mentioned (as a minimum)
7. CV of CHSO (to determine experience)
8. Qualifications of the CHSO
9. Completed and signed HS Cost breakdown sheet (template attached)

HEALTH & SAFETY

For noting:

- Asbestos scope to be noted
- Valid medicals inclusive of a drug test.
- Daily alcohol testing by trained employee
- No employees will be transported in the back of bakkies.
- Trainings to be cost for: LL, HIRA (16.2; 8.1; 8.7; 8.5)
- Permits required – Contractor's cost (hot work permits)
- Long sleeve shirts/overalls and long pants
- CHSO & CM & CS to be full-time on site
- CWP will be applied for by the PrCHSA (30 days)
- HS file as per Transnet file assessment checklist

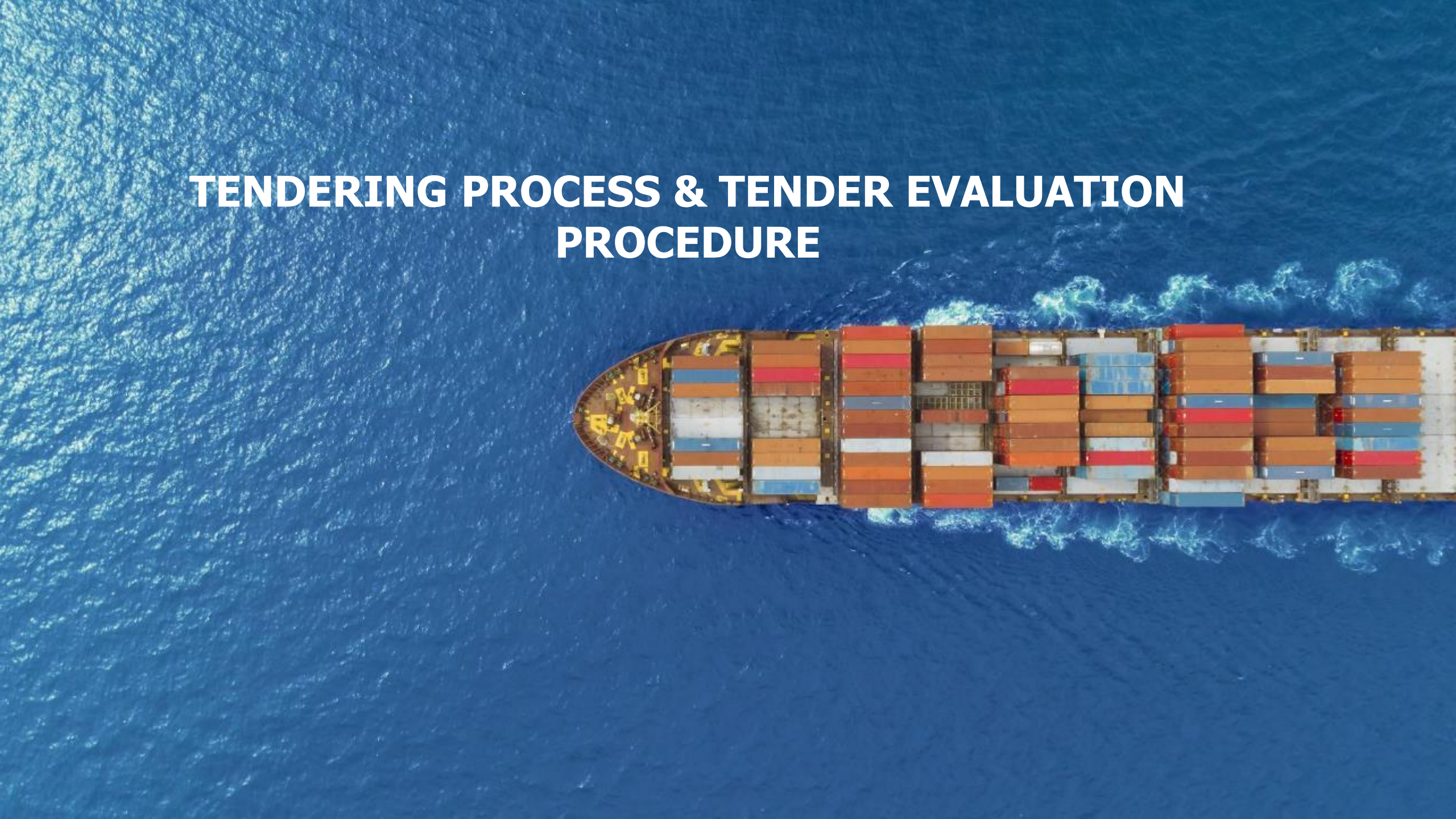
ENVIRONMENTAL

- The Transnet Capital Governance Framework, Project Lifecycle Process (PLP) requires environmental and sustainability assessments to be undertaken as part of all PLP phases and in accordance with the requirements specified by the PLP.
- The environmental screening process endeavored to identify environmental constraints and requirements associated with the project
- The project scope has been reviewed and assessed including engineering designs and proposed construction methods. Port operations and the baseline status of the Port environment were considered as part of the assessment. These aspects formed the basis for the legislative review and ultimate identification of legal and other environmental requirements that are relevant to the project.
- From an environmental perspective, the project is a brown field development and therefore not all the PLP environmental requirements would have to be applied
- Based on current available information regarding the construction methods for the project,the project does not trigger any requirement of a Permit or Authorisation.

It is recommended that the Transnet Standard Operating Procedure (SOP) for Construction Environmental Management Plan and Contractor Environmental and Sustainability Specification Guidelines (CESSG) be implemented for the construction phase of the project, to manage and mitigate construction related environmental impacts.

QUESTIONS AND ANSWERS

TENDERING PROCESS & TENDER EVALUATION PROCEDURE



Tendering procedure

Transnet has implemented a new electronic tender submission system, the e-Supplier Submission Portal, in line with the overall Transnet digitalization strategy where suppliers can view advertised tenders, register their information, log their intent to respond to bids and upload their bid proposals/responses on to the system.

a) The Transnet e-Tender Submission Portal can be accessed as follows:

Log on to the Transnet eTenders management platform website (https://esupplierportal.transnet.net/portal/)

- Click on "ADVERTISED TENDERS" to view advertised tenders;
- Click on "SIGN IN/REGISTER – for tenderer to register their information (must fill in all mandatory information);
- Click on "SIGN IN/REGISTER" - to sign in if already registered;
- Toggle (click to switch) the "Log an Intent" button to submit a bid;
- Submit bid documents by uploading them into the system against each tender selected.

b) Each company must register its profile using its company details and use the corresponding registered profile to log an intent to bid as well as submitting any bid.

Tendering procedure

c) Transnet will not accept a bid or will disqualify a tenderer who submits a bid in the Transnet e-tender submission through another tenderers'/Company's profile. In other words, each tenderer must register the intent to bid and submit its bid through its own profile under the same company name that will eventually bid for the tender. No company shall submit a bid on behalf of another company regardless of the company being a subsidiary or holding company.

d) In the case of a Joint Venture, any of the parties/companies to the Joint Venture may use its registered profile to submit a bid on behalf of the Joint Venture.

Bidders are to note that a help guide is available on https://esupplierportal.transnet.net/portal/

Tender Closing Date: 26 June 2026

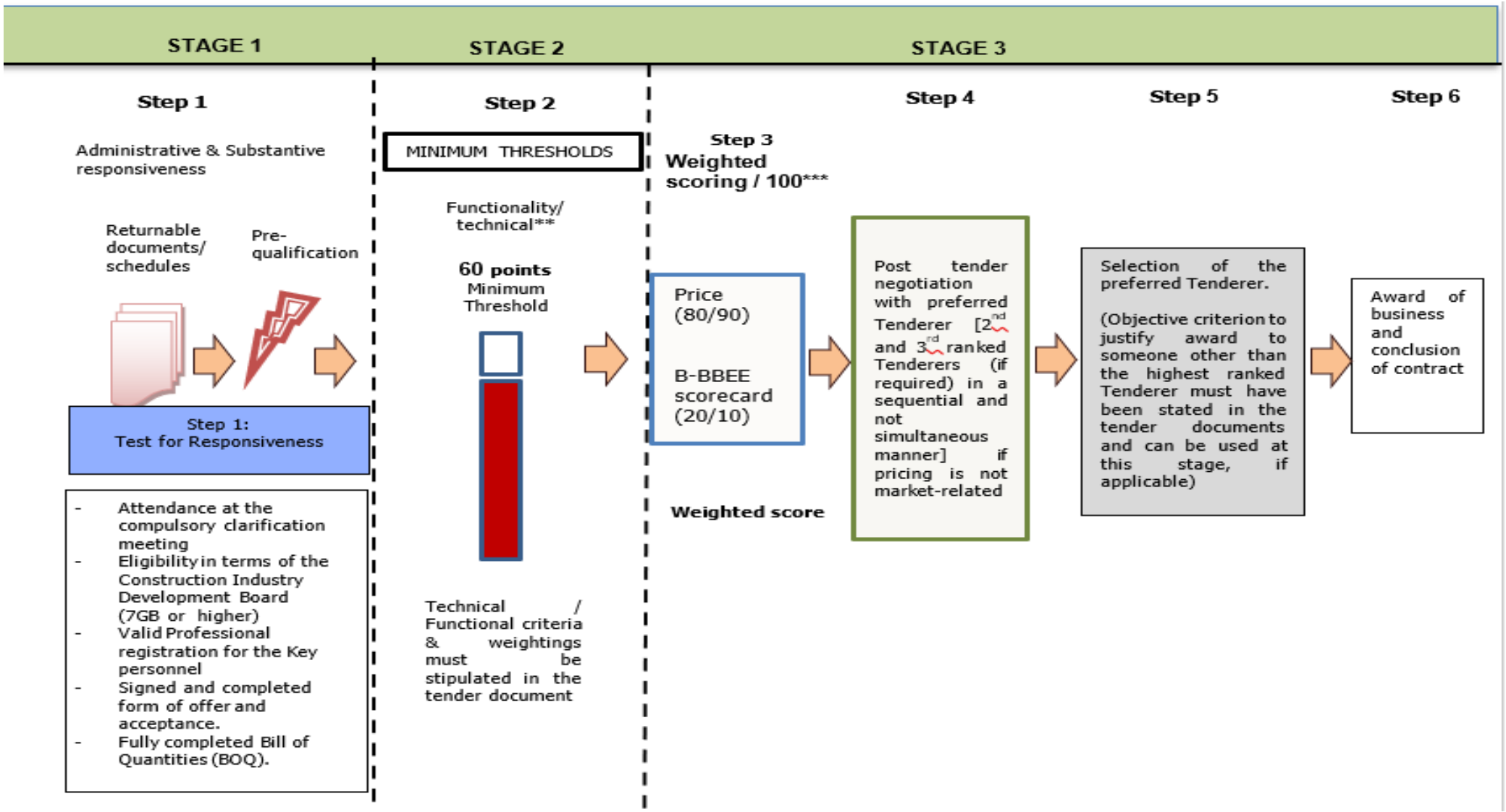
Tender offer validity period: 12 weeks from the closing date

SUBMISSIONS

Note to the bidders: Bidders should ensure that electronic bid submissions are submitted at least a day before the closing date and bidders should not wait for the last hour before the deadline to submit. This is to enable them to timeously address issues which they may encounter due to internet speed, bandwidth or the size of the number of uploads being submitted.

Transnet will not be held liable for any challenges experienced by bidders as a result of their own technical challenges.

Transnet's evaluation methodology



STAGE ONE: TEST FOR ADMINISTRATIVE RESPONSIVENESS

The test for responsiveness will include the following:

Administrative and Substantive Responsiveness Check
• Validate whether the bid has been lodged on time
• Verify whether all returnable documents and/or schedules [where applicable] were completed and returned by the closing date and time
• Verify the validity of all returnable documents
• Check if the mandatory returnable documents are submitted: ✓Attendance at the compulsory clarification meeting ✓Active CIDB grade 7GB or higher ✓A fully completed Bill of quantities ✓ A fully completed and signed Form of Offer and Acceptance ✓Valid professional registration with SACPCMP as a Professional Construction Manager (Pr.CM) and Professional Construction Health and Safety Officer.

The test for responsiveness must be passed for a Respondent's proposal to progress for further evaluation

2.1.1 These schedules are required for pre-qualification and eligibility purposes:

T2.2-01 **Stage 1.1 - Eligibility with regard to attendance at the compulsory site clarification meeting:-** Certificate of attendance at compulsory site clarification meeting. Either the Certificate of attendance or the briefing attendance register will be used as a form of evidence to confirm or verify attendance.

T2.2-02 **Stage 1.2 - Eligibility in terms of the Construction Industry Development Board:** CIDB valid registration as 7GB or higher.

T2.2-03 **Stage 1.3 as per Technical Pre-Qualification** - Eligibility with regards to valid professional registrations of key personnel.

Stage 1.4 - Submission of a signed and fully completed form of offer and acceptance: C1.1

Stage 1.5 - Submission of a fully completed Bill of Quantities (BOQ): C2.2

The following returnables for functionality must be scanned with the relevant supporting evidence & uploaded individually under the **Technical Evaluation Scorecard** tab on the e-supplier tendering system

2.1.2 Stage Two as per CIDB: these schedules will be utilised for evaluation purposes:

T2.2-04 **Evaluation Schedule:** Previous experience

T2.2-05 **Evaluation Schedule:** Project Organogram, Management & CV's

T2.2-06 **Evaluation Schedule:** Quality Management

T2.2-07 **Evaluation Schedule:** Health and Safety Management

T2.2-08 **Evaluation Schedule:** Environmental Management

T2.2-09 **Evaluation Schedule:** Programme

T2.2-10 **Evaluation Schedule:** Method Statement

2.1.3 Returnable Schedules:

General:

T2.2-11 Authority to submit tender

T2.2-12 Record of addenda to tender documents

T2.2-13 Letter of Good Standing

T2.2-14 Risk Elements

T2.2-15 Availability of equipment and other resources

T2.2-16 Schedule of proposed Subcontractors

T2.2-17 Site Establishment requirements

Agreement and Commitment by Tenderer:

T2.2-18: CIDB SFU ANNEX G Compulsory Enterprise Questionnaire

- SBD 6.1 (Preference Point System)
- SBD 4 (Declaration of Interest)

T2.2-19 Non-Disclosure Agreement

T2.2-20 RFP Declaration Form

T2.2-21 RFP – Breach of Law

T2.2-22 Certificate of Acquaintance with Tender Document

T2.2-23 Service Provider Integrity Pact

T2.2-24 Supplier Code of Conduct

T2.2-25 Domestic Prominent Influential Persons (DPIP) Or Foreign Prominent Public Officials (FPPO)

T2.2-26 Agreement in terms of Protection of Personal Information Act, 4 of 2013 ("POPIA")

T2.2-27 B.U.I.L.D Programme (CIDB Standard for Contract Skills Development Goals / CIDB Standard for Indirect Targeting)

T2.2-28 Job Creation Schedule

1.3.2 Bonds/Guarantees/Financial/Insurance:

T2.2-29 Insurance provided by the Contractor

T2.2-30 Form of Intent to provide a Performance Guarantee

T2.2-31 Forecast Rate of Invoicing

T2.2-32 Three (3) most recent years audited / independently reviewed annual financial statements

2.2 C1.2 Contract Data

2.3 C1.3 Forms of Securities

QUESTIONS AND ANSWERS

STAGE 2

TECHNICAL ELIGIBILITY REQUIREMENTS

- Note: Any tenderer that fails to meet the minimum 60 points for technical requirements will be regarded as an unacceptable tender and will not be evaluated further

Technical Requirements

Criteria	Score
T2.2-04: Evaluation Schedule: Previous Experience	**30**
T2.2-05: Evaluation Schedule – Project Organogram	**20**
T2.2-06: Evaluation Schedule - Quality Management	**10**
T2.2-07 Evaluation Schedule: Health and Safety Management	**10**
T2.2-08 Evaluation Schedule: Environmental Management	**10**
T2.2-09 Evaluation Schedule: Programme	**10**
T2.2-10 Evaluation Schedule: Method Statement	**10**

Technical Requirements for loading

Evaluation Criteria Description	Evidence required	Scoring guideline	Maximum score / weighting
T2.2-04: Evaluation Schedule: Previous	The Tenderer shall	Score 0- The tenderer	15
T2.2-04: Evaluation Schedule: Previous	Civil engineering	Score 0- The tenderer	5
T2.2-04: Evaluation Schedule: Previous	Mechanical Fire	Score 0- The tenderer	5
T2.2-04: Evaluation Schedule: Previous	Mechanical HVAC	Score 0- The tenderer	5
T2.2-05: Evaluation Schedule – Project	The organogram must	Score 0- No	4
T2.2-05: Evaluation Schedule – Project	Construction Project	Score 0- No qualification	4
T2.2-05: Evaluation Schedule – Project	Construction Project	Score 0- Construction	4

Technical Requirements: Previous Experience (30 Points)

	The Tenderer shall submit: a) A Reference letter/Completion certificate, which must be on the Client company's letterhead, dated and signed in the construction works as detailed in the Works Information with reference to the construction and refurbishment of building structure. References to substantiate experience indicated (Client name, contact details, project description, duration and contract value) NB: A reference letter with less than the 5 required elements will not be accepted	Mechanical HVAC Contractor: (a) A list of projects demonstrating experience in HVAC installations, maintenance, and repair work. Experience working with various HVAC systems, including split systems, ducted systems, VRF (Variable Refrigerant Flow) systems, etc. and (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Gas (SAQCC Gas).	Mechanical Fire Contractor: (a)A list of projects demonstrating experience in Fire installations, maintenance, and repair work. Experience working with various Fire systems, including hose reels, hydrants, and fire extinguishers, as well as fire detection (panels, sensors, sirens) systems, etc. and (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Fire (SAQCC Fire).	Civil engineering Contractor: Tenders to submit a detailed portfolio of projects demonstrating competency in the Key area of specialty as mentioned in the scope of service (C3) for: • Site Supervision • Construction • Material Testing • Hand-over and Close-out This will be assessed as the number of services counted per key area/s mentioned. (1) Parking Areas, Roads and Highways, (2) Pavement and Materials, (3) Hydraulics and Hydrology (Stormwater Drainage), (4) Bulk Earthworks, (5) Traffic and Transportation
Points (30)	15	5	5	5
(score 0)	The tenderer submitted a letter or completion certificate that does not meet the above requirements e.g. (Reference letter or completion certificate not submitted or does not meet the minimum requirements indicated (Client name, contact details, project description, duration and contract value).	The tenderer failed to provide required information or inadequate information is provided to determine a score. 1) No demonstration of previous experience and 2) No submission of certifications	The tenderer Failed to provide required information or inadequate information is provided to determine a score. 1) No demonstration of previous experience and 2) No submission of certifications	The tenderer Failed to provide required information or inadequate information is provided to determine a score.
(score 20)	The tenderer submitted x 1 Reference letter or Completion certificate of past/ comparable projects in the construction of similar completed project.	The tenderer provided experience in the construction and completion of comparable projects X 1-2 projects and the contractor has: (a) Demonstrated experience in HVAC installations, maintenance, and repair work. Experience working with various HVAC systems, including split systems, ducted systems, VRF (Variable Refrigerant Flow) systems, etc. (b)Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Gas (SAQCC Gas).	The tenderer Provided experience in the construction and completion of comparable projects X 1-2 projects and the contractor has: (a) Demonstrated experience in Fire installations, maintenance, and repair work. Experience working with various Fire systems, including hose reels, hydrants, and fire extinguishers, as well as fire detection (panels, sensors, sirens) systems, etc. (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Fire (SAQCC Fire).	The tenderer provided information that Covers 1 service.
(score 40)	The tenderer submitted x 2 projects with Reference letters or Completion certificates of past/ comparable projects in the construction of similar completed projects.	The tenderer provided experience in the construction and completion of comparable projects X 3 -4 projects and the contractor has: (a) Demonstrated experience in HVAC installations, maintenance, and repair work. Experience working with various HVAC systems, including split systems, ducted systems, VRF (Variable Refrigerant Flow) systems, etc. (b)Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Gas (SAQCC Gas).	The tenderer Provided experience in the construction and completion of comparable projects X 3 -4 projects and the contractor has: (a) Demonstrated experience in Fire installations, maintenance, and repair work. Experience working with various Fire systems, including hose reels, hydrants, and fire extinguishers, as well as fire detection (panels, sensors, sirens) systems, etc. (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Fire (SAQCC Fire).	The tenderer Provided information that Covers 2 services.

Technical Requirements – Previous Experience cont.

	The Tenderer shall submit: a) A Reference letter/Completion certificate, which must be on the Client company's letterhead, dated and signed in the construction works as detailed in the Works Information with reference to the construction and refurbishment of building structure. References to substantiate experience indicated (Client name, contact details, project description, duration and contract value) NB: A reference letter with less than the 5 required elements will not be accepted	Mechanical HVAC Contractor: (a) A list of projects demonstrating experience in HVAC installations, maintenance, and repair work. Experience working with various HVAC systems, including split systems, ducted systems, VRF (Variable Refrigerant Flow) systems, etc. and (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Gas (SAQCC Gas).	Mechanical Fire Contractor: (a)A list of projects demonstrating experience in Fire installations, maintenance, and repair work. Experience working with various Fire systems, including hose reels, hydrants, and fire extinguishers, as well as fire detection (panels, sensors, sirens) systems, etc. and (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Fire (SAQCC Fire).	Civil engineering Contractor: Tenders to submit a detailed portfolio of projects demonstrating competency in the Key area of specialty as mentioned in the scope of service (C3) for: • Site Supervision • Construction • Material Testing • Hand-over and Close-out This will be assessed as the number of services counted per key area/s mentioned. (1) Parking Areas, Roads and Highways, (2) Pavement and Materials, (3) Hydraulics and Hydrology (Stormwater Drainage), (4) Bulk Earthworks, (5) Traffic and Transportation
(score 60)	The tenderer submitted x 3 projects with Reference letters or Completion certificates of past comparable projects in the construction of similar completed projects.	The tenderer Provided experience in the construction and completion of comparable projects X 5 -6 projects and the contractor has: (a) Demonstrated experience in HVAC installations, maintenance, and repair work. Experience working with various HVAC systems, including split systems, ducted systems, VRF (Variable Refrigerant Flow) systems, etc. (b)Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Gas (SAQCC Gas).	The tenderer Provided experience in the construction and completion of comparable projects X 5 -6 projects and the contractor has: (a) Demonstrated experience in Fire installations, maintenance, and repair work. Experience working with various Fire systems, including hose reels, hydrants, and fire extinguishers, as well as fire detection (panels, sensors, sirens) systems, etc. (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Fire (SAQCC Fire).	The tenderer Provided information that Covers 3 services.
(score 80)	The tenderer submitted x 4 projects with Reference letters or Completion certificates of past/t comparable projects in the construction of similar completed projects.	The tenderer Provided experience in the construction and completion of comparable projects X 7 -8 projects and the contractor has: (a) Demonstrated experience in HVAC installations, maintenance, and repair work. Experience working with various HVAC systems, including split systems, ducted systems, VRF (Variable Refrigerant Flow) systems, etc. (b)Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Gas (SAQCC Gas).	The tenderer Provided experience in the construction and completion of comparable projects X 7 -8 projects and the contractor has: (a) Demonstrated experience in Fire installations, maintenance, and repair work. Experience working with various Fire systems, including hose reels, hydrants, and fire extinguishers, as well as fire detection (panels, sensors, sirens) systems, etc. (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Fire (SAQCC Fire).	The tenderer Provided information that Covers 4 services.
(score 100)	The tenderer submitted x 5 or more projects with Reference letters or Completion certificates of past/ comparable projects in the construction of similar completed projects.	The tenderer Provided experience in the construction and completion of comparable projects X 9 or more projects and the contractor has: (a) Demonstrated experience in HVAC installations, maintenance, and repair work. Experience working with various HVAC systems, including split systems, ducted systems, VRF (Variable Refrigerant Flow) systems, etc. (b)Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Gas (SAQCC Gas).	The tenderer Provided experience in the construction and completion of comparable projects X 9 or more projects and the contractor has: (a) Demonstrated experience in Fire installations, maintenance, and repair work. Experience working with various Fire systems, including hose reels, hydrants, and fire extinguishers, as well as fire detection (panels, sensors, sirens) systems, etc. (b) Contractors must hold a valid refrigeration handling license issued by the South African Qualification and Certification Committee for Fire (SAQCC Fire).	The tenderer Provided information that Covers 5 services.

Technical Requirements Project Organogram (20 Points)

	The organogram must include the names and designations of the following key personnel: 1.Construction Project Manager 2. Construction Manager 3. Project Planner 4. Site Administrator/ Document Controller 5. Environmental Officer 6. Quality Officer 7. Health and Safety Officer Minimum requirement: The bidder has submitted an organogram with five (5) key personnel's names and designations. The submission must be in pdf format.	Construction Project Manager: a) The construction project manager shall submit a B. Tech degree/postgraduate diploma in the built environment and b) Valid registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Professional Construction Project Manager. Registrations in the "Candidate" category will not be acceptable.	Construction Project Manager Experience: The construction project manager shall submit a CV with experience in civil engineering construction or the built environment. Minimum Threshold: The Construction Project Manager has submitted a CV with five (5) to less than eight (8) years of experience post-graduation in building or civil engineering construction projects. Submission should be in pdf format.	Construction Manager a) The construction manager with valid registration (SACPCPM) as Pr. CM shall submit a B. Tech degree/postgraduate diploma qualification (Civil/Electrical/Mechanical/Building Construction) under the built environment.	Construction Manager Experience a. The Construction Manager shall submit a CV with experience in civil engineering construction or the built environment. Minimum Threshold: Personnel has submitted a CV with five (5) to less than eight (8) years of experience post-graduation in building or civil projects.
Points (20)	4	4	4	4	4
(score 0)	No submission/irrelevant information submitted	No qualification submitted /irrelevant qualification submitted	Personnel has not submitted a CV or CV submitted has irrelevant experience	No qualification submitted /irrelevant qualification submitted	Personnel has not submitted a CV or CV submitted has irrelevant experience
(score 20)	The bidder has submitted an organogram with an indication three (3) key personnel's name and designations.	Personnel submitted a NQF Level 5 qualification (Civil/Electrical/Mechanical/Building Construction), and has a valid registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Professional Construction Project Manager (Pr. CPM).	Personnel has submitted a CV with less than three (3) years of post-graduation experience in building or civil engineering construction projects.	Personnel with valid registration (SACPCPM) as Pr. CM has submitted a NQF Level 5 qualification (Civil/Electrical/Mechanical/Building Construction)	Personnel has submitted a CV with less than three (3) years of post-graduate experience in building or civil engineering construction projects.
(score 40)	The bidder has submitted an organogram with an indication of four (4) key personnel's name and designation.	Personnel has submitted a Diploma in the Built Environment, AND has a valid registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Professional Construction Project Manager (Pr.CPM).	Personnel has submitted a CV with three (3) or more, but less than five (5) years of post-graduate experience t- in building or civil engineering construction projects.	Personnel with valid registration (SACPCPM) as Pr. CM has submitted a Diploma in the Built Environment (Civil/Electrical/Mechanical/Building Construction)	Personnel has submitted a CV with three (3) or more, but less than five (5) years of post-graduate experience in building or civil engineering construction projects.

Technical Requirements Project Organogram cont.

	The organogram must include the names and designations of the following key personnel: 1.Construction Project Manager 2. Construction Manager 3. Project Planner 4. Site Administrator/ Document Controller 5. Environmental Officer 6. Quality Officer 7. Health and Safety Officer Minimum requirement: The bidder has submitted an organogram with five (5) key personnel's names and designations. The submission must be in pdf format.	Construction Project Manager: a) The construction project manager shall submit a B. Tech degree/postgraduate diploma in the built environment and b) Valid registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Professional Construction Project Manager. Registrations in the "Candidate" category will not be acceptable.	Construction Project Manager Experience: The construction project manager shall submit a CV with experience in civil engineering construction or the built environment. Minimum Threshold: The Construction Project Manager has submitted a CV with five (5) to less than eight (8) years of experience post-graduation in building or civil engineering construction projects. Submission should be in pdf format.	Construction Manager a) The construction manager with valid registration (SACPCPM) as Pr. CM shall submit a B. Tech degree/postgraduate diploma qualification (Civil/Electrical/Mechanical/Building Construction) under the built environment.	Construction Manager Experience a. The Construction Manager shall submit a CV with experience in civil engineering construction or the built environment. Minimum Threshold: Personnel has submitted a CV with five (5) to less than eight (8) years of experience post-graduation in building or civil projects.
(score 60)	The bidder has submitted an organogram with an indication of five (5) key personnel's name and designation.	Personnel has submitted a B. Tech degree/postgraduate diploma in the Built Environment, and has a valid registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as Professional Construction Project Manager (Pr.CPM).	Personnel has submitted a CV with five (5) or more, but less than eight (8) years of post-graduate experience in building or civil engineering construction projects.	Personnel with valid registration (SACPCPM) as Pr. CM has submitted a B. Tech degree/postgraduate diploma in the Built Environment (Civil/Electrical/Mechanical/Building Construction)	Personnel has submitted a CV with five (5) or more, but less than eight (8) years of post graduate experience in building or civil engineering construction projects.
(score 80)	The bidder has submitted an organogram with an indication of six (6) personnel's name and designation.	Personnel has submitted a B. Sc./B.Eng with Honours in the Built Environment, and has a valid registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Professional Construction Project Manager (Pr. CPM).	Personnel has submitted a CV with eight (8) or more, but less than eleven (11) years of post-graduate experience in building or civil engineering construction projects.	Personnel with valid registration (SACPCPM) as Pr. CM has submitted a a B. Sc./B.Eng with Honours in the Built Environment (Civil/Electrical/Mechanical/Building Construction)	Personnel has submitted a CV with eight (8) or more, but less than eleven (11) years of post graduate experience in building or civil engineering construction projects.
(score 100)	The bidder has submitted an organogram with an indication of all seven (7) personnel's name and designation.	Personnel has submitted a B. Sc./B.Eng with Honours or higher in the Built Environment including NEC3 Certificate, and has a valid registration with the South African Council for the Project and Construction Management Professions (SACPCMP) as a Professional Construction Project Manager (Pr.CPM)	Personnel have submitted a CV with eleven (11) or more years post-graduation experience in building or civil engineering construction projects.	Personnel has submitted a B. Sc./B.Eng with Honours or higher in the Built Environment including NEC3 Certificate in the Built Environment (Civil/Electrical/Mechanical/Building Construction)	Personnel has submitted a CV with eleven (11) or more years of post-graduate experience in building or civil engineering construction projects.

Technical Requirements: Quality Management (10 Points)

	Quality Manual that is aligned to ISO 9001:2015 QMS requirements. Quality Manual aligned to ISO 9001:2015 must include the following requirements: 1.Context of the organization 2. Leadership 3. Support 4. Operations 5. Performance Evaluation	Project Quality Plan must be project specific and be aligned to the TNPAQUAL- REQ-14.1_General Quality Requirements for Contractors and Suppliers. Project Quality Plan (PQP) for the contract, which includes the following requirements: 1. Scope of works 2.Control of documented information 3. Resources 4. Audits 5.Control of non-conforming outputs	Experience CV of Quality Officer supplemented by Qualification - ISO 9001:2015 QMS training certificates (Implementation of QMS and Auditing). The Quality Officer MUST have a minimum of 3 years' quality experience in construction projects.	Education CV of Quality Officer supplemented by Qualification - ISO 9001:2015 QMS training certificates (Implementation of QMS and Auditing).	Quality Control Plans must be in line with the scope of works detailing the Engineering works (i.e., Civil, structural, electrical, mechanical, Marine etc.) These QCP's shall identify all inspections as detailed in the scope of works together with other tests and verifications required to demonstrate that the works comply with the scope of works, specifications, and drawings. Quality Control Plan (QCP) which includes the following requirements: 1.Sequence of activities 2.Procedure/code specifications 3. Intervention points 4.Field inspection checklist 5. Relevant signatories
Points (10)	2	2	2	2	2
(score 0)	No Submission to determine score/Functionality is not met	No Submission to determine score/Functionality is not met	No Submission to determine score/Functionality is not met	No Submission to determine score/Functionality is not met	No Submission to determine score/Functionality is not met
(score 20)	Quality Manual contains one (1) of the five (5) QMS requirements.	Project Quality Plan contains one (1) of the five (5) PQP requirements.	One (1) year Experience in Quality Management in construction projects	Submitted Qualifications not relating to Quality/Technical Qualification	Quality Control Plan contains one (1) of the five (5) QCP requirements.
(score 40)	Quality manual contains two (2) of the five (5) QMS requirements.	Project Quality Plan contains two (2) of the five (5) PQP requirements	Two (2) years Experience in Quality Management in construction projects .	ISO 9001:2015 QMS training certificate (Implementation of QMS)	Quality Control Plan contains two (2) of the five (5) QCP requirements.

Technical Requirements: Quality Management cont.

	Quality Manual that is aligned to ISO 9001:2015 QMS requirements. Quality Manual aligned to ISO 9001:2015 must include the following requirements: 1.Context of the organization 2. Leadership 3. Support 4. Operations 5. Performance Evaluation	Project Quality Plan must be project specific and be aligned to the TNPAQUAL- REQ-14.1_General Quality Requirements for Contractors and Suppliers. Project Quality Plan (PQP) for the contract, which includes the following requirements: 1. Scope of works 2.Control of documented information 3. Resources 4. Audits 5.Control of non-conforming outputs	Experience CV of Quality Officer supplemented by Qualification - ISO 9001:2015 QMS training certificates (Implementation of QMS and Auditing). The Quality Officer MUST have a minimum of 3 years' quality experience in construction projects.	Education CV of Quality Officer supplemented by Qualification - ISO 9001:2015 QMS training certificates (Implementation of QMS and Auditing).	Quality Control Plans must be in line with the scope of works detailing the Engineering works (i.e., Civil, structural, electrical, mechanical, Marine etc.) These QCP's shall identify all inspections as detailed in the scope of works together with other tests and verifications required to demonstrate that the works comply with the scope of works, specifications, and drawings. Quality Control Plan (QCP) which includes the following requirements: 1.Sequence of activities 2.Procedure/code specifications 3. Intervention points 4.Field inspection checklist 5. Relevant signatories
(score 60)	Quality manual contains three (3) of the five (5) QMS requirements.	Project Quality Plan contains **three (3) of the five (5)** PQP requirements.	**Three (3) years** Experience in Quality Management in construction projects .	ISO 9001:2015 QMS training certificate **(Implementation of QMS and Auditing)**	Quality Control Plan contains **three (3) of the five (5)** QCP requirements.
(score 80)	Quality manual contains four (4) of the five (5) QMS requirements.	Project Quality Plan contains **four (4) of the five (5)** PQP requirements	**Four (4)- ten (10) years** Experience in Quality Management in construction projects	Quality Diploma, Technical Diploma and ISO 9001:2015 QMS certificates **(Implementation of QMS)**	Quality Control Plan contains **four (4) of the five (5)** QCP
(score 100)	Quality manual contains all five (5) of the QMS requirements.	Project Quality Plan contains **all five (5)** of the PQP requirements.	**More than ten (10) years** Experience in Quality Management in construction projects	Quality Diploma, Technical Diploma and ISO 9001:2015 QMS training certificates **(Implementation of QMS and Auditing)**	Quality Control Plan contains **all five (5)** of the QCP requirements.

Technical Requirements: Health and Safety (10 Points)

	Required submission which H&S management system comprises of. ➢ Health and Safety Plan ➢ Health and Safety Policy ➢ Emergency Procedure ➢ Incident Management Procedure ➢ Letter of Good Standing Minimum Threshold: Three (3) of the above five (5) required documents submitted	Submit a Baseline Risk Assessment indicating major activities of the project with reference to: ➢ Site establishment ➢ Demolition work ➢ Excavation work ➢ Electrical works ➢ De-establishment and project close-out Minimum Threshold: The baseline risk assessment submitted addresses three (3) of the above five (5) activities.	The Construction Health and Safety Officer (CHSO) is required to submit a detailed CV with health and safety experience in a construction environment. Minimum Threshold: CHSO has five (5) years health and safety experience in construction environment	The CHSO is required to submit a qualification in Safety Management, Environmental Health, or an equivalent qualification. Minimum Threshold: NQF level 6 in Safety Management, Environmental Health or equivalent NQF level 6 safety qualification Submission should be in pdf format.	The tenderer is required to submit a completed health and safety cost breakdown sheet indicating the percentage of funds budgeted/allocated Minimum Threshold: The health and safety budget submitted is at least three percent (3%) of the project value.
Points (10)	2	2	2	2	2
(score 0)	**No** document submitted / None of the listed elements are covered	**No** document submitted / None of the listed elements are covered	**No** document submitted	**No** document submitted	**No** document submitted
(score 20)	**1 of 5** document submitted.	**1 of 5** project activity in baseline risk assessment submitted.	CHSO has **<2** years' health and safety experience in construction environment	Qualification submitted not relevant to Health and Safety	Health and safety Budget submitted is **<2 %** of the tender value.
(score 40)	**2 of 5** documents submitted.	**2 of 5** project activities in baseline risk assessment submitted.	CHSO has **≥2 to <5** years' health and safety experience in construction environment	Qualification submitted is NQF level 5 Safety related trainings	Health and safety Budget submitted is **≥2 to <3 %** of the tender value.

Technical Requirements: Health and Safety cont.

	Required submission which H&S management system comprises of. ➢ Health and Safety Plan ➢ Health and Safety Policy ➢ Emergency Procedure ➢ Incident Management Procedure ➢ Letter of Good Standing Minimum Threshold: Three (3) of the above five (5) required documents submitted	Submit a Baseline Risk Assessment indicating major activities of the project with reference to: ➢ Site establishment ➢ Demolition work ➢ Excavation work ➢ Electrical works ➢ De-establishment and project close-out Minimum Threshold: The baseline risk assessment submitted addresses three (3) of the above five (5) activities.	The Construction Health and Safety Officer (CHSO) is required to submit a detailed CV with health and safety experience in a construction environment. Minimum Threshold: CHSO has five (5) years health and safety experience in construction environment	The CHSO is required to submit a qualification in Safety Management, Environmental Health, or an equivalent qualification. Minimum Threshold: NQF level 6 in Safety Management, Environmental Health or equivalent NQF level 6 safety qualification Submission should be in pdf format.	The tenderer is required to submit a completed health and safety cost breakdown sheet indicating the percentage of funds budgeted/allocated Minimum Threshold: The health and safety budget submitted is at least three percent (3%) of the project value.
(score 60)	**3 of 5** documents submitted.	**3 of 5** project activities in baseline risk assessment submitted.	CHSO has **5** years' health and safety experience in construction environment	NQF level 6 in Safety Management, Environmental Health or equivalent NQF level 6 safety qualification	Health and safety Budget submitted is **3 %** of the tender value.
(score 80)	**4 of 5** documents submitted.	**4 of 5** project activities in baseline risk assessment submitted.	CHSO has **>5 to ≤8** years' health and safety experience in construction environment	NQF level 7 in Safety Management, Environmental Health or equivalent NQF level 7 safety qualification	Health and safety Budget submitted is **>3 to ≤4%** of the tender value.
(score 100)	**All 5** documents submitted.	**All 5** project activities in baseline risk assessment submitted.	CHSO has **>8** years' health and safety experience in construction environment	Qualification higher than NQF level 7 in Safety Management, Environmental Health or higher equivalent than NQF level 7 safety qualification	Health and safety Budget submitted is **>4%** of the tender value.

Technical Requirements: Environmental Management (10 Points)

	The tenderer must provide a project specific Environmental Management Plan (EMP). This plan must be clear on the following: a. Identification of environmental impacts that need to be avoided, managed and mitigated. The tenderer must provide a description of how those impacts will be avoided, managed and mitigated i.e. impact management actions. b. The method and frequency of monitoring the implementation of the impact management actions. c. A description of how the non-conformance/non-compliance and environmental incidents will be managed on site. d. An indication of the roles and responsibilities in the implementation of the impact management actions. e. A list of applicable legislative requirements for the project	The tenderer must provide an Environmental Policy signed by Top Management that displays the following key components, namely: a. Is appropriate given the purpose and context of the tenderer's business; b. Provides framework for setting environmental objectives and targets; c. Commitment to comply with all applicable environmental laws, regulations and standards; d. Commitment to the protection of the environment, including prevention of pollution; e. Emphasize the organisation's commitment to continual improvement of their EMS; and f. Address the sustainable use of resources/ resource conservation.	Environmental Officer Qualification Provide a CV showing environmental staff competencies, experience and environmental qualification (Degree/Diploma) relevant to environmental management functions, who will form part of the key environmental officer. (Proof of Qualification must be submitted).	Environmental Officer Experience Provide a CV showing environmental staff competencies, experience and environmental qualification (Degree/Diploma) relevant to environmental management functions,	The tenderer must provide a list of projects where construction environmental management duties have been executed including a brief description of such duties as listed on company's experience reference letters.
Points (10)	2	2	2	2	2
(score 0)	The Tenderer has submitted no information to determine a score.	The Tenderer has submitted no information to determine a score.	The Tenderer has submitted no information or submitted Qualifications not in the Natural Science or Environmental Studies to determine a score.	Environmental officer has ‹1 year of relevant on-the- job experience.	The Tenderer has submitted no information to determine a score.
(score 20)	EMP only responds to **1-2 of the items** listed under paragraph 1 in T2.2-08.	Policy addresses **1 of the required elements** listed under paragraph 2 in T2.2-08.	Environmental officer is in possession of a **Certificate** in Natural Science or Environmental Studies	Environmental officer has **≥1 year but ≤3 years of relevant** on-the- job experience.	Tenderer has only executed environmental management duties on **1 project.**
(score 40)	EMP only responds **to 3 of the items** listed under paragraph 1 in T2.2-08.	Policy addresses **2 of the required elements** listed under paragraph 2 in T2.2-08.	The Tenderer has submitted no information or submitted Qualifications not in the Natural Science or Environmental Studies to determine a score.	Environmental officer has **>3 years but ≤4** years of relevant on-the- job experience.	Tenderer has only executed environmental management duties on **2 projects.**

Technical Requirements: Environmental Management cont.

	The tenderer must provide a project specific Environmental Management Plan (EMP). This plan must be clear on the following: a. Identification of environmental impacts that need to be avoided, managed and mitigated. The tenderer must provide a description of how those impacts will be avoided, managed and mitigated i.e. impact management actions. b. The method and frequency of monitoring the implementation of the impact management actions. c. A description of how the non-conformance/non-compliance and environmental incidents will be managed on site. d. An indication of the roles and responsibilities in the implementation of the impact management actions. e. A list of applicable legislative requirements for the project	The tenderer must provide an Environmental Policy signed by Top Management that displays the following key components, namely: a. Is appropriate given the purpose and context of the tenderer's business; b. Provides framework for setting environmental objectives and targets; c. Commitment to comply with all applicable environmental laws, regulations and standards; d. Commitment to the protection of the environment, including prevention of pollution; e. Emphasize the organisation's commitment to continual improvement of their EMS; and f. Address the sustainable use of resources/ resource conservation.	Environmental Officer Qualification Provide a CV showing environmental staff competencies, experience and environmental qualification (Degree/Diploma) relevant to environmental management functions, who will form part of the key environmental officer. (Proof of Qualification must be submitted).	Environmental Officer Experience Provide a CV showing environmental staff competencies, experience and environmental qualification (Degree/Diploma) relevant to environmental management functions,	The tenderer must provide a list of projects where construction environmental management duties have been executed including a brief description of such duties as listed on company's experience reference letters.
(score 60)	EMP only responds **to 4 of the items** listed under paragraph 1 in T2.2-08.	Policy addresses **3 of the required elements** listed under paragraph 2 in T2.2-08.	Environmental officer is in possession of a **Bachelor's degree/ B. Tech** in Natural Science or Environmental Studies.	Environmental officer has **>4 years but ≤8 years** of relevant on-the- job experience.	Tenderer has only executed environmental management duties on **3 projects.**
(score 80)	EMP only responds to **5 of the items** listed under paragraph 1 in T2.2-08	Policy addresses **4 of the required elements** listed under paragraph 2 in T2.2-08.	Environmental officer is in possession of a **Bachelor's degree with Honours** in Natural Science or Environmental Studies.	Environmental officer has **>8 but ≤10 years** relevant on-the-job experience.	Tenderer has only executed environmental management duties on **4 projects.**
(score 100)	EMP responds to **all the items** listed under paragraph 1 in T2.2-08.	Policy addresses **all of the required elements** listed under paragraph 2 in T2.2-08.	Environmental officer is in possession of a **Master's degree** in Natural Science or Environmental Studies.	Environmental officer has **> 10 years** of relevant on-the-job experience.	Tenderer has only executed environmental management duties on **5 projects.**

Technical Requirements: Programme (10 Points)

No response (score 0)	Poor (score 20)	Less Than Acceptable (40)	Acceptable response to the particular aspect (60)	Above acceptable real understanding (80)	Excellent Response (100)
			10		
Tenderer has not submitted the required information/ Tenderer submitted information below Level 3/ Tenderer submitted information not using the required software (Primavera P6 or MS Project)	Tenderer has addressed up to 3 out of 14 requirements (incl sub requirements) that supports the scope of work.	Tenderer has addressed more than 3 but less than 7 out of the 14 requirements (incl sub requirements) that supports the scope of work.	Tenderer has addressed 7 to 10 out of 14 requirements (incl sub requirements) that supports the scope of work.	Tenderer has addressed 11 to 13 out of 14 requirements (incl sub requirements) that supports the scope of work.	Tenderer has addressed all 14 requirements (incl sub requirements) that support the scope of work.

Technical Requirements: Method Statement (10 Points)

	Mechanical Engineering Works Compulsory requirements: 1.Lift Supply, Installation, Testing, Commission and Maintenance Plan 2.Fire Systems (Suppression and detection Supply, Installation, Testing, Commissioning and Maintenance Plan 3.HVAC System Supply, Installation, Testing, Commissioning and Maintenance Plan. Sub Criteria elements: 4. Project method statement proposal follows logical and sequential order in accordance with the submitted project schedule/programme. 5. A description of how the works are to be carried out in relation to manage the refurbishment and the upgrade of the facility in accordance with designs requirements. 6. Monitoring and review - Details of how the scope of the works will be monitored, supervised and evaluated. 7. Waste and Rubble management plan	Civil Engineering Works: The contractor must submit a detailed Work methodology for the resourcing and execution of the technical work. Furthermore, the Contractor must provide a detailed Civil Engineering Work methodology procedure covering the below items: (1) Contract Details - Details of the nature of the Civil Engineering services that is to be undertaken. (2) Method of Work - A description of how the works are to be carried out in relation to the design stages, scope, drawing deliverables at each stage, condition assessments, site conditions and site-specific hazards and considerations (3) Risk Assessments - The inclusion of any risk assessments, project specific health and safety issues which will assist in the identification and management of task specific hazards (4) Operative Competence - Skills available, including certification, accreditation and training (5) Monitoring and review - Details of how the scope of the works will be monitored supervised and evaluated. (6) Implementation Methodology is aligned to project scope. (7) Methodology shows execution, handover and close-out stages. (8) Foreseeable construction-related risks are identified on method statement. (9) All stakeholders have been identified . 10) All relevant approvals from authorities have been identified.	Control and Instrumentation Works: The contractor must submit a detailed Work methodology for the resourcing and execution of the ICT and Security Network works. Furthermore, the Contractor must provide a detailed construction/installation methodology procedure covering the below items 1.CCTV camera installation 2.CCTV Cabling Installation 3.CCTV System Configuration 4. Interior Access control equipment installation (access control on building doors and cabling) 5. Exterior Access control equipment installation (boom-gate and spike system and turnstile) Access Control equipment Configuration. 6. Public Address Infrastructure 7. ICT Network Infrastructure (LAN connections, fiber cabling, etc.)	Architectural (Building) Works: The contractor must submit a detailed Work methodology for the resourcing and execution of the building works. Furthermore, the Contractor must provide a detailed construction methodology procedure covering the below items: 1. Masonry work 2. Timber Roof Trusses 3. Facade Cladding – Aluminium 4. Fire Rated Drywall Construction 5. Fire Rated Glazing Installations 6. Aluminium and Steel Window Frame Installations 7. Steel and Timber Mezzanine Floor Construction 8. Steel Truss: new installation OR repair of existing 9. Plumbing and Drainage 10. Interior finishes Including Floor and Wall tiling, painting, etc.
Points (10)	2	4	2	2
(score 0)	The Tenderer's Submission does not address any of the requirements. - The Tenderer's submission **does not** address the (3) Three Compulsory **Requirements** in detail and compliance to scope of work	No response or **None of the items** are addressed	Submission has addressed **1 or No items**	Submission has addressed **1 or No items.**
(score 20)	Submission has addressed compulsory **requirements** in detail and compliance to scope of work but **missing four** of the sub-criteria elements	The Submission has addressed **1 – 2 Items**	Submission has addressed **2 items**	Submission has addressed **2- 3 items**
(score 40)	Submission has addressed compulsory **requirements** in detail and compliance to scope of work but **missing three** of the sub-criteria elements	Submission has addressed **3 – 5 Items**	Submission has addressed **3 – 4 Items**	Submission has addressed **4 - 5 items**

Technical Requirements: Method Statement cont.

	Mechanical Engineering Works Compulsory requirements: 1.Lift Supply, Installation, Testing, Commission and Maintenance Plan 2.Fire Systems (Suppression and detection Supply, Installation, Testing, Commissioning and Maintenance Plan 3.HVAC System Supply, Installation, Testing, Commissioning and Maintenance Plan. Sub Criteria elements: 4. Project method statement proposal follows logical and sequential order in accordance with the submitted project schedule/programme. 5. A description of how the works are to be carried out in relation to manage the refurbishment and the upgrade of the facility in accordance with designs requirements. 6. Monitoring and review - Details of how the scope of the works will be monitored, supervised and evaluated. 7. Waste and Rubble management plan	Civil Engineering Works: The contractor must submit a detailed Work methodology for the resourcing and execution of the technical work. Furthermore, the Contractor must provide a detailed Civil Engineering Work methodology procedure covering the below items: (1) Contract Details - Details of the nature of the Civil Engineering services that is to be undertaken. (2) Method of Work - A description of how the works are to be carried out in relation to the design stages, scope, drawing deliverables at each stage, condition assessments, site conditions and site-specific hazards and considerations (3) Risk Assessments - The inclusion of any risk assessments, project specific health and safety issues which will assist in the identification and management of task specific hazards (4) Operative Competence - Skills available, including certification, accreditation and training (5) Monitoring and review - Details of how the scope of the works will be monitored supervised and evaluated. (6) Implementation Methodology is aligned to project scope. (7) Methodology shows execution, handover and close-out stages. (8) Foreseeable construction-related risks are identified on method statement. (9) All stakeholders have been identified . 10) All relevant approvals from authorities have been identified.	Control and Instrumentation Works: The contractor must submit a detailed Work methodology for the resourcing and execution of the ICT and Security Network works. Furthermore, the Contractor must provide a detailed construction/installation methodology procedure covering the below items 1.CCTV camera installation 2.CCTV Cabling Installation 3.CCTV System Configuration 4. Interior Access control equipment installation (access control on building doors and cabling) 5. Exterior Access control equipment installation (boom-gate and spike system and turnstile) Access Control equipment Configuration. 6. Public Address Infrastructure 7. ICT Network Infrastructure (LAN connections, fiber cabling, etc.)	Architectural (Building) Works: The contractor must submit a detailed Work methodology for the resourcing and execution of the building works. Furthermore, the Contractor must provide a detailed construction methodology procedure covering the below items: 1. Masonry work 2. Timber Roof Trusses 3. Facade Cladding – Aluminium 4. Fire Rated Drywall Construction 5. Fire Rated Glazing Installations 6. Aluminium and Steel Window Frame Installations 7. Steel and Timber Mezzanine Floor Construction 8. Steel Truss: new installation OR repair of existing 9. Plumbing and Drainage 10. Interior finishes Including Floor and Wall tiling, painting, etc.
Points (10)	2	4	2	2
(score 60)	Submission has addressed compulsory **requirements** in detail and compliance to scope of work but **missing two** of the sub-criteria elements	Submission has addressed **6 – 7 Items**	Submission has addressed **5 Items**	The tenderer Failed to provide required information or inadequate information is provided to determine a score.
(score 80)	Submission has **addressed compulsory requirements** in detail and compliance to scope of work but **missing one** of the sub-criteria elements.	Submission has addressed **8 – 9 Items**	Submission has addressed **6 items**	The tenderer provided information that Covers 1 service.
(score 100)	Submission has addressed **compulsory requirements** in detail and compliance to scope of work and is **missing none** of the sub-criteria elements	Submission has addressed **all 10 items**	Submission has addressed all 7 Items	Submission has addressed all 10 items

QUESTIONS AND ANSWERS

STAGE 3

SPECIFIC GOALS

Tender Evaluation

Only tenders that achieve the minimum qualifying 60 points for functionality will be evaluated further in accordance with the 80/20 or 90/10 preference points systems as described in Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals.

Transnet will use the lowest acceptable bid to determine the applicable preference points system.

	POINTS	POINTS
PRICE	80	90
B-BBEE status level of contributor 1 or 2	4	2
30% Black Woman Owned Entities	6	3
The promotion of supplier development through subcontracting a minimum of 30% of the value of a contract to South African companies which are: 1.EMEs and/or QSEs black owned	10	5
Non-compliant and/or B-BBEE level 3 – 8 contributors	0	0
Total points for Price and B-BBEE must not exceed	100	100

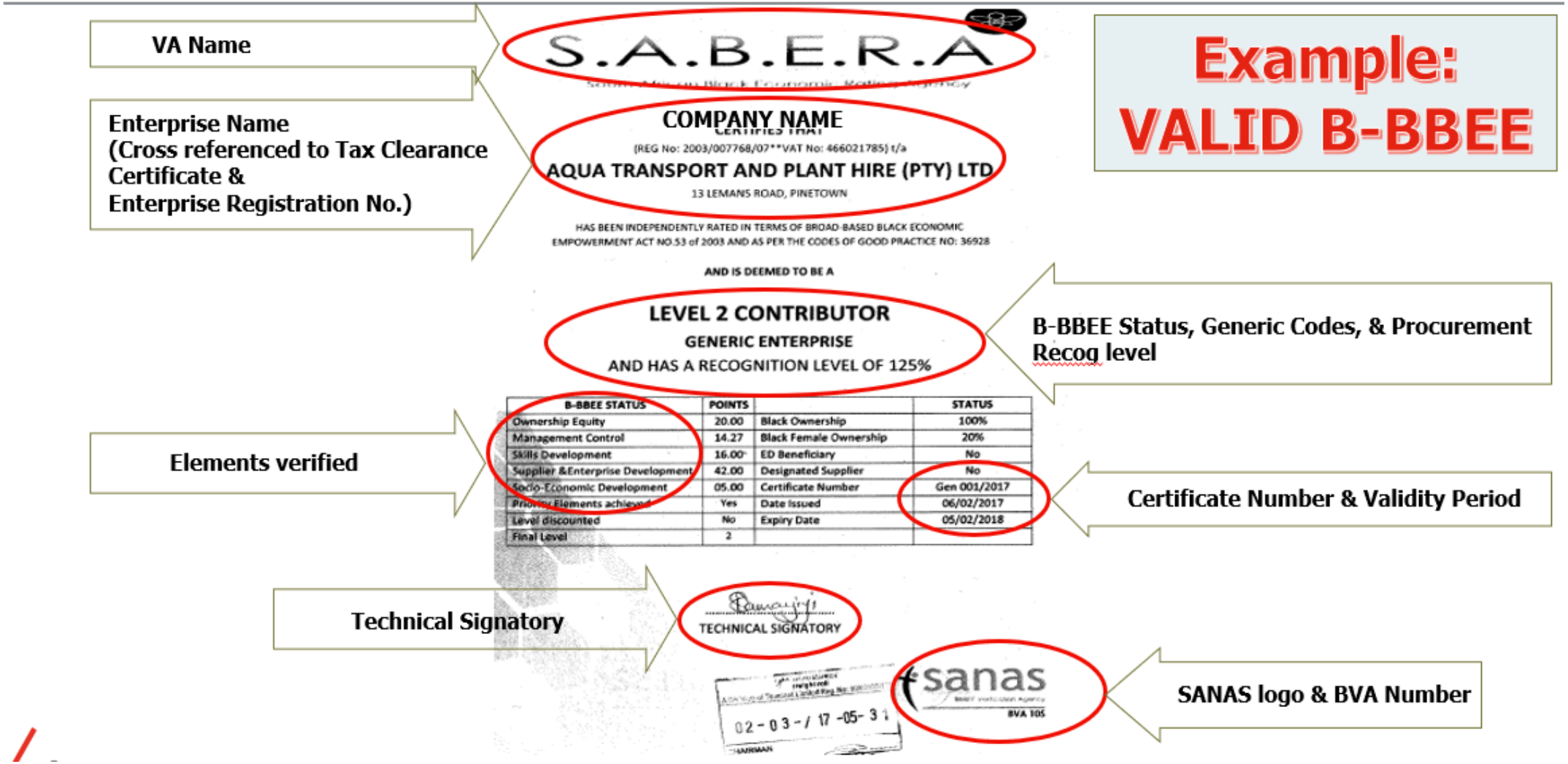
Tender Evaluation

The following Table represents the evidence to be submitted for claiming preference points for applicable specific goals in a particular tender:

Specific Goals	Acceptable Evidence
B-BBEE Status Level of Contributor 1 or 2	B-BBEE Certificate / Sworn - Affidavit / CIPC B-BBEE Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guidelines.
30% Black Women Owned Entities	Certified copy of ID Documents of the Owners
The promotion of supplier development through subcontracting a minimum of 30% of the value of a contract to South African companies which are: EMEs and/or QSEs black owned	Sub-contracting agreement(s). Subcontractors B-BBEE Certificate / Sworn - Affidavit / CIPC B-BBEE Certificate as per DTIC guidelines.

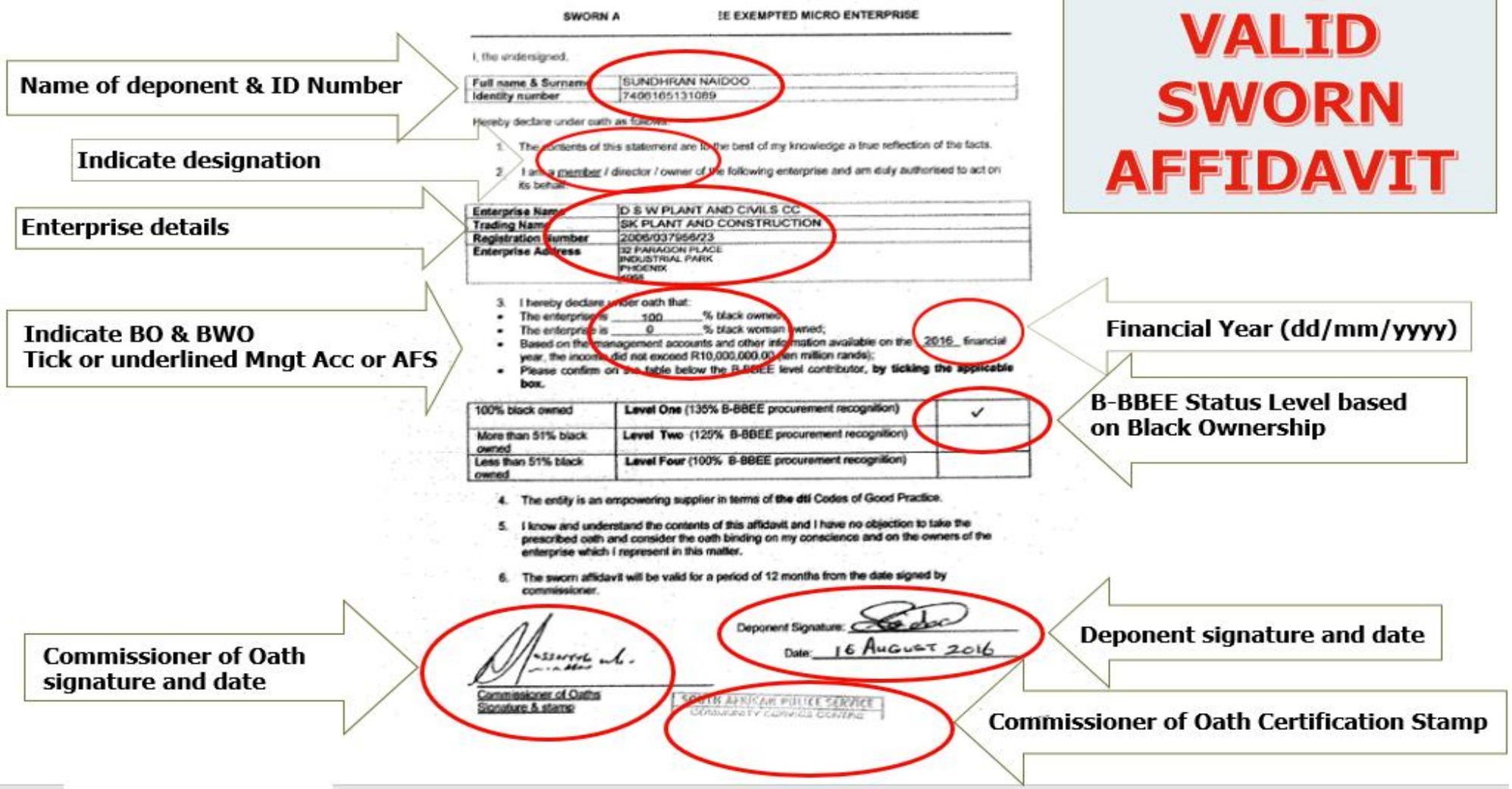
Key Pointers determining the validity of B-BBEE Certificate:

Valid B-BBEE Certificate



Key Pointers determining the validity of Sworn – Affidavit:

Example: VALID SWORN AFFIDAVIT



SWORN A IE EXEMPTED MICRO ENTERPRISE

I, the undersigned,

Full name & Surname	SUNDHRAN NAIDOO
Identity number	7406165131089

Hereby declare under oath as follows:

1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
2. I am a member / director / owner of the following enterprise and am duly authorised to act on its behalf:

Enterprise Name	D & W PLANT AND CIVILS CC
Trading Name	SK PLANT AND CONSTRUCTION
Registration Number	2006/037956/23
Enterprise Address	32 PARAGON PLACE INDUSTRIAL PARK PHOENIX 4068

3. I hereby declare under oath that:
   - The enterprise is 100 % black owned;
   - The enterprise is 0 % black woman owned;
   - Based on the management accounts and other information available on the 2016 financial year, the income did not exceed R10,000,000.00 (ten million rands);
   - Please confirm on the table below the B-BBEE level contributor, **by ticking the applicable box.**

100% black owned	**Level One** (135% B-BBEE procurement recognition)	✓
More than 51% black owned	**Level Two** (120% B-BBEE procurement recognition)	
Less than 51% black owned	**Level Four** (100% B-BBEE procurement recognition)	

4. The entity is an empowering supplier in terms of **the dti** Codes of Good Practice.
5. I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent in this matter.
6. The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature:

Date: 16 AUGUST 2016

Commissioner of Oaths
Signature & stamp

SOUTH AFRICAN POLICE SERVICE
COMMUNITY SERVICE CENTRE

Name of deponent & ID Number

Indicate designation

Enterprise details

Indicate BO & BWO
Tick or underlined Mngt Acc or AFS

Financial Year (dd/mm/yyyy)

B-BBEE Status Level based on Black Ownership

Commissioner of Oath signature and date

Deponent signature and date

Commissioner of Oath Certification Stamp

6

Key Pointers determining the validity of CIPC B-BBEE Certificate:

dtic logo

CIPC logo

Example: VALID CIPC B-BBEE

Bar code with tracking number

Certificate number

% of BO, BWO & TWO

Date of issue & expiry date

Bar code with enterprise number

CIPC Watermark

B-BBEE Status & Proc Recog Level

Reg. Number & Enterprise Name

the dti
Department:
Trade and Industry
REPUBLIC OF SOUTH AFRICA

Companies and Intellectual Property Commission

B-BBEE CERTIFICATE
FOR
EXEMPTED MICRO ENTERPRISES

Issued by the Companies & Intellectual Property Commission (CIPC) on behalf of the Department of Trade and Industry. Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end, the annual Total Revenue was R10,000,000.00 (Ten Million Rands) or less.

This Certificate serves as an Affidavit in terms of Code Series 000, Section 4.5 of the Amended Codes 2013.

Tracking Number: 9367024326

Enterprise Number: K2017267673

B-BBEE LEVEL 1 CONTRIBUTOR: 135% PROCUREMENT RECOGNITION

B-BBEE INFORMATION

Certificate Number	9367024326
Total Number of Shareholders	ONE (1) SHAREHOLDER(S)
Number of Black Shareholders	ONE (1) BLACK SHAREHOLDER(S)
Number of White Shareholders	ZERO (0) WHITE SHAREHOLDER(S)
Black Ownership Percentage	100% BLACK OWNERSHIP
Black Female Percentage	100% BLACK FEMALE OWNERSHIP
White Ownership Percentage	0% WHITE OWNERSHIP
B-BBEE Status	B-BBEE LEVEL 1 CONTRIBUTOR: 135% PROCUREMENT RECOGNITION
Date of Issue	01-June-2022
Expiry Date	31-May-2023

- Unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution: 0%
- Black people who are youth as defined in the National Youth Commission Act of 1996: 100%
- Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act: 0%
- Black people living in rural and under developed areas: 0%
- Black military veterans who qualify to be called a military veteran in terms of the Military Veterans Act 18 of 2011: 0%

ENTERPRISE INFORMATION

Registration number	2017 / 267673 / 07
Enterprise Name	JOEL MARK (PTY) LTD
Registration Date	13-June-2017
Enterprise Type	Private Company
Enterprise Status	In Business

Physical Address: *the dti* Campus - Block F, 77 Meintjies Street, Sunnyside 0001
Postal Address: Companies, P O Box 429, Pretoria, 0001
Docex: 256
Web: www.cipc.co.za
Contact Centre: 086 100 2472(CIPC)
Contact Centre (International): +27 12 394 9500

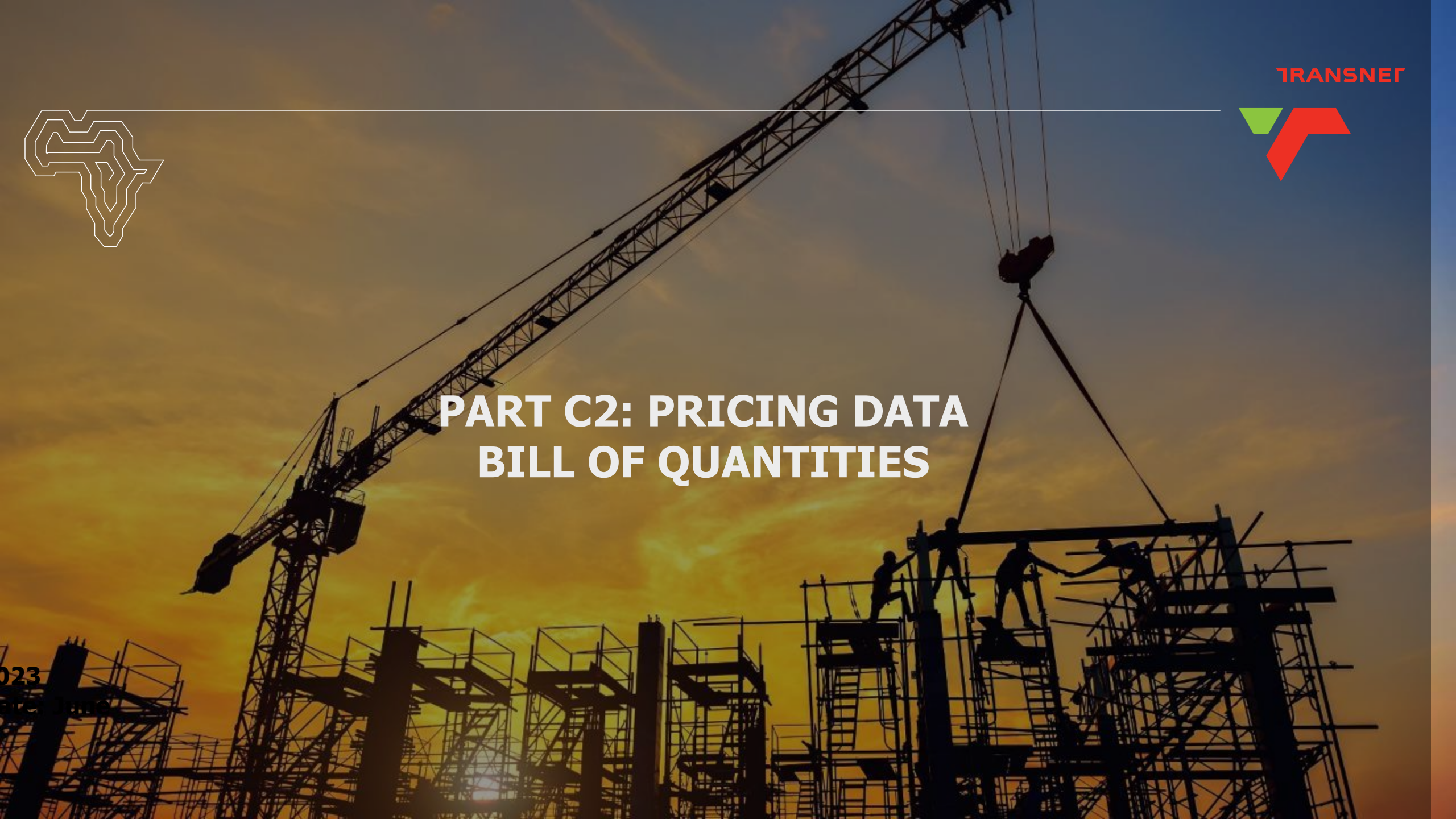
QUESTIONS AND ANSWERS

PART C1: AGREEMENT & CONTRACT DATA

Agreement & Contract Data

Contract Type: NEC ECC (Option B)

1	**General**	
	The *conditions of contract* are the core clauses and the clauses for main Option	
		B: **Priced contract with bill of quantities**
	dispute resolution Option	**W1:** **Dispute resolution procedure**
	and secondary Options	
		X2 **Changes in the law**
		X7: **Delay damages**
		X13: **Performance Bond**
		X16: **Retention**
		X18: **Limitation of liability**
		Z: ***Additional conditions of contract***



PART C2: PRICING DATA
BILL OF QUANTITIES

023

C2.1 PRICING INSTRUCTIONS

C2.1 Pricing instructions: Option B

The *conditions of contract*

B.U.I.L.D PROGRAMME STANDARDS

The contractor shall determine the contract skills participation goals, expressed in Rand, which shall not be less than the contract amount multiplied by a percentage (0.375%) factor as required by the Standard for the applicable class of construction works. (CSDG).

How the contract prices work and assesses it for progress payments

Clause 11 in NEC3 Engineering and Construction Contract, June 2005 and 2013 (ECC) Option B states:

Identified and defined terms	11	
	11.2	(21) The Bill of Quantities is the *bill of quantities* as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.
		(22) Defined Cost is the cost of the components in the Shorter Schedule of Cost Components whether work is subcontracted or not excluding the cost of preparing quotations for compensation events.
		(28) The Price for Work Done to Date is the total of
		the quantity of the work which the *Contractor* has completed for each item in the Bill of Quantities multiplied by the rate and
		a proportion of each lump sum which is the proportion of the work covered by the item which the *Contractor* has completed.
		Completed work is work without Defects which would either delay or be covered by immediately following work.
		(31) The Prices are the lump sums and the amounts obtained by multiplying the rates by the quantities for the items in the Bill of Quantities.

C2.1 PRICING INSTRUCTIONS

This confirms that Option B is a re-measurement contract and the bill comprises only items measured using quantities and rates or stated as lump sums. Value related items are not used. Time related items are items measured using rates where the rate is a unit of time.

Function of the Bill of Quantities

Clause 55.1 in Option B states, "Information in the Bill of Quantities is not Works Information or Site Information". This confirms that instructions to do work or how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Works in accordance with the Works Information". Hence the *Contractor* does **not** Provide the Works in accordance with the Bill of Quantities. The Bill of Quantities is only a pricing document.

Guidance before pricing and measuring

Employers preparing tenders or contract documents, and tendering contractors are advised to consult the sections dealing with the bill of quantities in the NEC3 Engineering and Construction Contract (June 2005) Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

Historically bill of quantities based contracts in South Africa have been influenced by the different approaches of the civil engineering and building sectors of the industry through their respective discipline based standard forms of contract and methods of measurement. This is particularly apparent in the approach to the Preliminary and General bill. On the other hand, because ECC caters for a number of disciplines in the same contract, including electrical works, a different approach not currently found in local methods of measurement to the Preliminary & General bill items may have been used.

The NEC approach to the P & G bill assumes use will be made of method related charges for Equipment applied to Providing the Works based on durations shown in the Accepted Programme, fixed charges for the use of Equipment that is required throughout the construction phase, time related charges for people working in a supervisory capacity for the period required, and lump sum charges for other facilities or services not directly related to performing work items typically included in other parts of the bill.

C2.1 PRICING INSTRUCTIONS

General assumptions

Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.

The Prices and rates stated for each item in the Bill of Quantities shall be treated as being fully inclusive of all work, risks, liabilities, obligations, overheads, profit and everything necessary as incurred or required by the Contractor in carrying out or providing that item.

Clause 63.13 in Option B provides that these rates and Prices may be used as a basis for assessment of compensation events instead of Defined Cost.

Where this contract requires detailed drawings, designs or other information to be provided, and no rates or prices are included in the bill specifically for such matters, then the Contractor is deemed to have allowed for all costs associated with such requirements within the tendered rates and Prices in the Bill of Quantities.

C2.1 PRICING INSTRUCTIONS

An item against which no Price is entered will be treated as covered by other Prices or rates in the bill of quantities. If a number of items are grouped together for pricing purposes, this will be treated as a single lump sum.

The quantities contained in the Bill of Quantities may not be final and do not necessarily represent the actual amount of work to be done. The quantities of work assessed and certified for payment by the Project Manager at each assessment date will be used for determining payments due and not the quantities given in the Bill of Quantities.

The short descriptions of the items of payment given in the bill of quantities are only for the purposes of identifying the items. More detail regarding the extent of the work entailed under each item is provided in the Works Information.

The contractor shall determine the contract skills participation goals, expressed in Rand, which shall not be less than the contract amount multiplied by a percentage (0.25%) factor as required by the Standard for the applicable class of construction works. (CSDG).

Departures from the *method of measurement*

Amplification of or assumptions about measurement items

For the avoidance of doubt the following is provided to assist in the interpretation of descriptions given in the *method of measurement*. In the event of any ambiguity or inconsistency between the statements in the *method of measurement* and this section, the interpretation given in this section shall be used.

- "The CIDB Standard for **Developing Skills through Infrastructure Contracts**, published in Government Gazette 43495 dated 3 July 2020 is applicable to this project".

Table 2: Construction skills development goals for different classes of engineering and construction works contracts.

Class of construction works as identified in terms of the cidb regulation		Construction skills development goal (%)
Designation	Description	
CE	Civil Engineering	0.25
CE and GB	Civil Engineering and General Building	0.375
EB	Electrical Engineering work (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering	0.25
	Specialist works	0.25

- The fee is levied at the rate of 0.2% of the *Project Award*

  value up to a maximum fee of R2,000,000.00.

Note 1: In the case of the CIDB Standard for Skills Development there are NO returnable documents (except for pricing the relevant section of the Bill of Quantities). Following award of the contract to the successful tenderer, the employer shall provide to the Contractor the following documents which shall be completed by the Contractor and submitted within the stipulated period.

- A1 – List of Recognized Skills Development Agencies (21 days after acceptance),
- A2 – Baseline Training Plan (21 days after acceptance),
- A3 – Project Interim Report (21 days after the end of each reporting period),
- A4 – Supervisor Agreement (21 days after acceptance), and
- A5 – Project Completion Report (21 days after Final Completion)

Returnable Schedules

Bill No.	Description	Amount
	SUMMARY	
	SECTION 1 - PRELIMINARIES AND GENERAL	
SCHEDULE A	PRELIMINARIES AND GENERAL	
	SECTION 2 - BUILDING WORKS	
SCHEDULE B	DEMOLITIONS	
SCHEDULE C	EARTHWORKS	
SCHEDULE D	CONCRETE, FORMWORK AND REINFORCEMENT	
SCHEDULE E	PRECAST CONCRETE	
SCHEDULE F	MANSORY	
SCHEDULE G	WATERPROOFING	
SCHEDULE H	ROOF COVERING	
SCHEDULE I	CARPENTRY & JOINERY	
SCHEDULE J	CEILING, PARTITIONS AND ACCESS	
SCHEDULE K	FLOOR COVERINGS	
SCHEDULE L	IRONMONGERY	
SCHEDULE N	STRUCTURAL STEELWORK	
SCHEDULE O	METALWORK	
SCHEDULE P	PLASTERING	
SCHEDULE Q	TILING	
SCHEDULE S	GLAZING	
SCHEDULE T	PLUMBING AND DRAINAGE	
SCHEDULE U	PAINTWORK	
SCHEDULE V	ELECTRICAL	

Returnable Schedules

SCHEDULE W	CCTV	
SCHEDULE X	ACCESS CONTROL	
SCHEDULE Y	ICT	
SCHEDULE Z	MECHANICAL WORKS	
	SECTION 3 - EXTERNAL WORKS	
SCHEDULE A1	EXTERNAL WORKS	
	SECTION 4 - PROVISIONAL SUMS	
SCHEDULE B1	PROVISIONAL SUMS	
	SUB TOTAL 1	
	CIDB CONTRACT SKILLS DEVELOPMENT GOALS (CSDG) (0.375% FACTOR X SUB TOTAL 1) Allow the Sum of 0.2% of Sub total 1 for the CIDB BUILD Fee:	
	Total carried forward to form of offer	

QUESTIONS AND ANSWERS

RECAP/CONCLUSION

Date: June

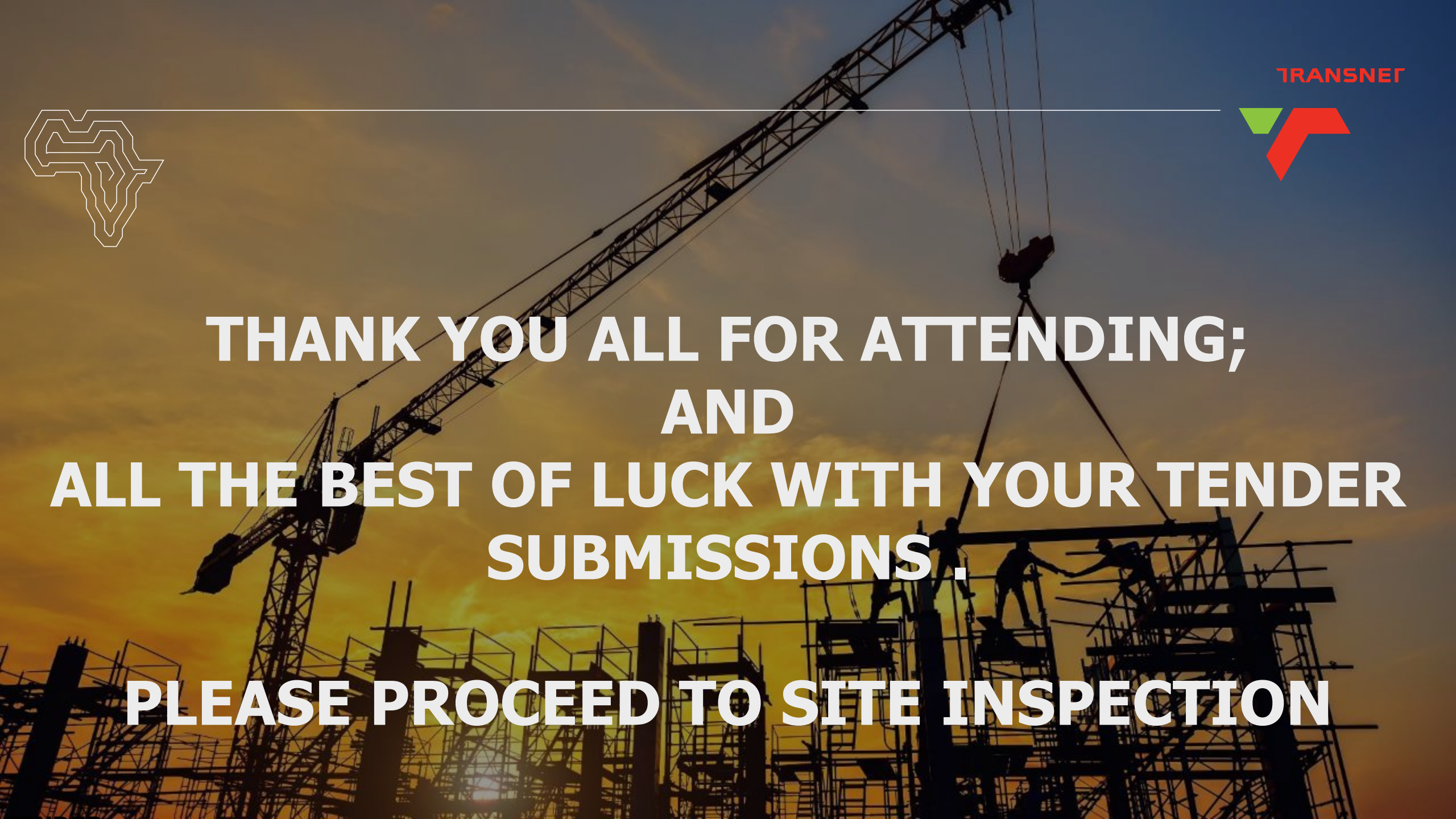
RECAP

1. RFP is available for downloading on the NT e-tender portal and Transnet e-supplier portal

2. All questions must be forwarded to the tnpatendersenquiries3@transnet.net email and answers will be consolidated and uploaded onto the Transnet e-tender portal and National Treasury e-tender portal and shared with all those who have attended the compulsory briefing.

3. Cut-off time and date for questions and clarifications is 12pm, **five working days before the closing date**.

4. The closing date for this RFP 26 June 2026 @ 16h00 (The tender closes on the Transnet e-Supplier Submission Portal: https://esupplierportal.transnet.net/portal/
5. Tenderer must ensure the contact details contained on the SBD1 form are correct, these will be used to make contact with the tenderer for any tender-related communication



THANK YOU ALL FOR ATTENDING;
AND
ALL THE BEST OF LUCK WITH YOUR TENDER SUBMISSIONS .

PLEASE PROCEED TO SITE INSPECTION