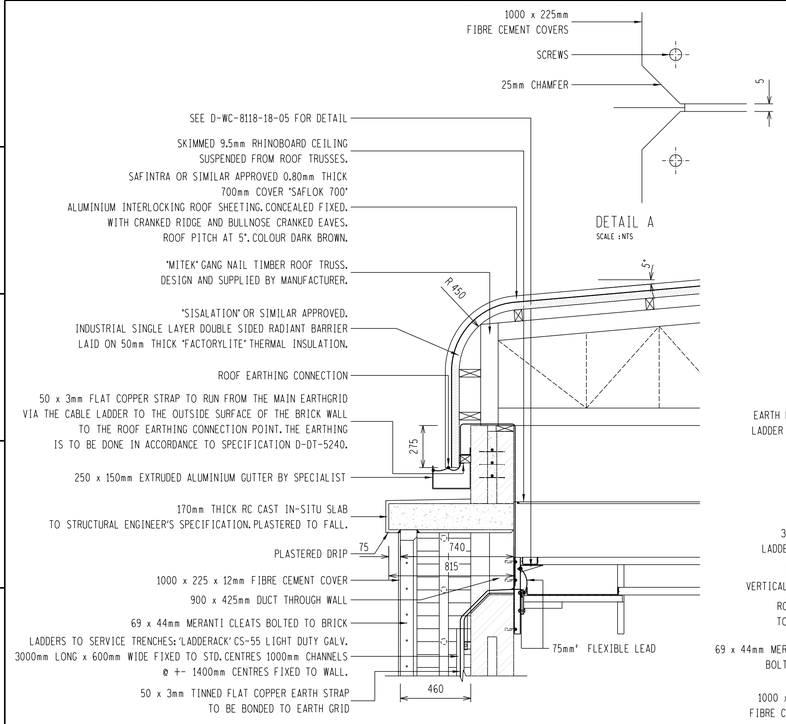
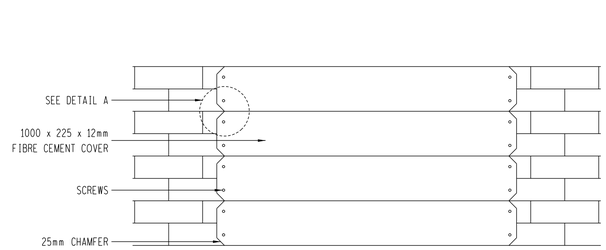
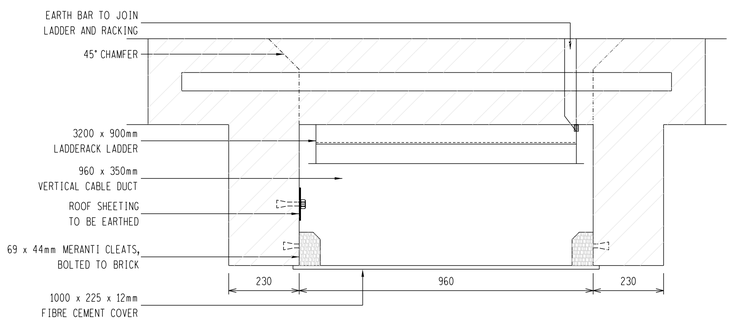


EAVE DETAIL & CABLE DUCT
SCALE 1:20



CABLE DUCT COVER DETAIL ELEVATION
SCALE :NTS



CABLE DUCT COVER DETAIL PLAN
SCALE :NTS

NOTES (CONTINUED):

SANITARY WARE:

WC : VAAL SANITARY WARE PROTEA WHITE VITREOUS CHINA WITH SEAT AND LID. COBRA STAR CP STOP COCK/VALVE.

BASIN : VAAL BANTAM 455 x 290mm WHITE VITREOUS CHINA COMPLETE WITH WALL BRACKETS, CP PLUG AND CHAIN. COBRA STAR CP COLD WATER TAP. 300 x 300mm WHITE GLAZED TILED SPLASHBACK ABOVE BASIN - 3 (THREE N.O.) TILES HIGH. 6mm FLOAT GLASS SILVER BACKED MIRROR (400 x 600mm) ABOVE BASIN TO BE PROVIDED.

BATTERY ROOM & WC VENTILATION:

600 x 600 x 300mm PRECAST CONCRETE WINTEC 'WINBLOK' WB66 (B) UNIT, FACTORY FITTED WITH STANDARD 20 x 6mm GALV. STEEL BURGLAR BARS BY WINTEC.

WIRE MESH TRAYS:

TRAYS TO BE AS O-LINE GRIDSPAN GS50, 600mm WIDE x 50mm HIGH WITH STD. HDG FINISH MOUNTED ON STD. OLCA22 / 650 SUPPORT ARMS FIXED TO WALL WITH M10 EXPANSION BOLTS. ARMS TO BE @ MAX. 800mm C/C. 100mm COMMS TRAY TO BE FIXED ABOVE 600mm TRAY.

LADDER:

TRAY AS ABOVE SUPPORTED ON 3 / 700mm LONG OL3300 CHANNELS FIXED TO WALL @ +- 800mm C.C. LADDER TO BE 3000mm IN LENGTH.
ALL CABLE TRAYS TO BE CONNECTED / BONDED FOR ELECTRICAL CONNECTIVITY TO FORM EARTH BAR.

NOTES:

GENERAL:

THIS SPECIFICATION TO BE READ IN CONJUNCTION WITH ESKOM's STANDARD SPECIFICATION AND GENERAL CONDITIONS OF CONTRACT.
CONTRACTOR TO PAY ALL FEES IN REGARD TO SERVICES SUPPLIED BY AND FOR THE LOCAL AUTHORITY.
PORTABLE LATRINES TO BE PROVIDED AND SERVICED BY CONTRACTOR.
CONTRACTOR TO INCLUDE IN HIS PRICING FOR THE TEMPORARY SUPPLY OF WATER AND POWER FOR CONSTRUCTION PURPOSES. SUPPLEMENTARY TO THIS DOCUMENT, THE ESKOM BATTERY ROOM STANDARD (DOCUMENT IDENTIFIER 240-56177186) IS TO BE USED AS REFERENCE.

FOUNDATIONS:

TO SIZES AND DEPTHS SHOWN. CONCRETE TO BE 30MPa STRENGTH.

WALLS:

BELOW GROUND : TOP TWO LAYERS, BELOW GROUND LEVEL, OF THE OUTER SKIN SHALL BE NFX MASONRY UNITS OF MINIMUM 14MPa COMPRESSIVE STRENGTH. ABOVE THIS THE MASONRY UNITS ARE TO MATCH THE REST OF THE EXTERIOR FACEBRICK SKIN ABOVE GROUND LEVEL (FBX), LAID IN CLASS II MORTAR.

INTERNAL WALLS : RED CLAY R.O.K. BRICKS (MINIMUM COMPRESSION STRENGTH 7MPa).

FACEBRICKS : COROBRIK DE HOOP RED FLUSH JOINTED FBS SMOOTH TEXTURE - IMPERIAL FORMAT - 222x106x73. TO START 1 COURSE BELOW FINAL GROUND LINE. CAVITY WALLS TO BE 110-60-110 SKINS WITH 60mm AS THE CAVITY.

BRICKFORCE : 150mm WIDE GALV. TO FIRST 4 COURSES ABOVE FOUNDATIONS AND TOP 3 COURSES BELOW WALLPLATE. GABLES 75mm WIDTH EVERY 4th COURSE TO RIDGE.

WALLTIES : GALV. 'BUTTERFLY' TYPE, 5 PER m² IN WALL, 300mm C/C AT JAMBS.

D.P.C. : GUNPLAS 'BRIKGRIP' 375 MICRONS, STEPPED AT FLOOR LEVELS IN CAVITY WALLS AND AROUND OPENINGS.

JOINTS : FACEBRICK, 10mm RAKED. ALL OTHER JOINTS TO BE KEYED FOR PLASTERING. EVERY 4th PERPEND ABOVE STEPPED DPC TO BE RAKED CLEAR TO DRAIN CAVITY.

MORTAR : 1:4 (CEMENT:SAND).

WALL FINISHES INTERNALLY:

15mm THICKNESS, SMOOTH STEEL FLOAT FINISH. MIX 1:1:6 (CEMENT:LIME:SAND). FLOOR DUCTS TO BE BAGGED.

FLOORS (EXCLUDING BATTERY ROOM):

150mm THICKNESS 30MPa POWER FLOATED CONCRETE ON 375 MICRON DPM ON SAND FILL COMPACTED IN 150mm LAYERS.
REINFORCING TO BE MESH REF. 617 CARRIED THROUGH INTO STOEP.

BATTERY ROOM FLOOR:

AVOID EXPANSION JOINTS. FLOOR SHALL BE GIVEN A UNIFORM CEMENT SCREED FALL, WITH A FALL / SLOPE OF NO LESS THAN 1:200 TOWARDS THE DOOR. THE DOORWAY / THRESHOLD SHALL BE ELEVATED TO FORM A BARRIER TO MINIMUM 100mm IN HEIGHT FROM ADJACENT INTERIOR FLOOR FINISH.

N.B.: FLOOR LEVELS TO BE LAYED TO A TOLERANCE OF 0.5mm PER METRE WITH A MAXIMUM OF 2mm DIFFERENCE OVER THE LENGTH.

STEPS AND STOEP:

100mm BRUSH FINISH 30MPa CONCRETE LAYED TO FALLS AS SHOWN.

FLOOR FINISHES:

BATTERY ROOM :
SIKAFLOOR-381 5mm THICK SELF-LEVELLING SCREED WITH ACCOMPANYING PRIMER, OR APPROVED EQUIVALENT, APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. COLOUR LIGHT GREY.
FLOOR FINISH SHALL FORM A CONTINUOUS SKIRTING AGAINST THE WALL AND EXTEND TO A HEIGHT OF 100mm ABOVE LOWEST POINT OF THE FLOOR LEVEL.

CONTROL ROOM, ENTRANCE AND LOADING BAY :
SIKA 'PURIGO 5 S' PENETRATING CEMENT SEALER, OR APPROVED EQUIVALENT, APPLIED AS PER MANUFACTURER'S SPECIFICATION.

WC :
1 (ONE N.O.) COAT 'MASTERTOP PRIMER 1200 PLUS' RESIN WITH SOLVENT No 2 WITH 'MASTERTOP 1210 PLUS' AGGREGATE, OR APPROVED EQUIVALENT. TOP COAT OF LIGHT GREY 'MASTERTOP 1210 PLUS'.

AIR BRICKS:

225 x 150mm CEMENT TYPE WITH VERMIN PROOFING, INTERNALLY AND EXTERNALLY. HEIGHT @ 2600mm AFFL.

CEILINGS (EXCLUDING BATTERY ROOM):

SKIMMED 9.5mm RHINOBOARD CEILING ON 38 x 38mm TREATED PINE BATTENS @ 500mm C/C, WITH 25 x 25mm SHADOWLINE CORNICE. CEILING HEIGHT AT 3400mm AFFL.

CEILING - BATTERY ROOM ONLY:

4mm THICK NON-COMBUSTIBLE FIBRE CEMENT PANEL SUSPENDED CEILING, OR APPROVED EQUIVALENT, ON 38 x 38mm BATTENS @ 500mm C/C's, WITH STANDARD 75 x 75mm GYPSUM COVE CORNICE, AT THE HEIGHT AS INDICATED ON THE DRAWINGS, AND ABOVE THE CABLE TRAYS. CEILING HEIGHT AT 3400mm AFFL.

PAINT:

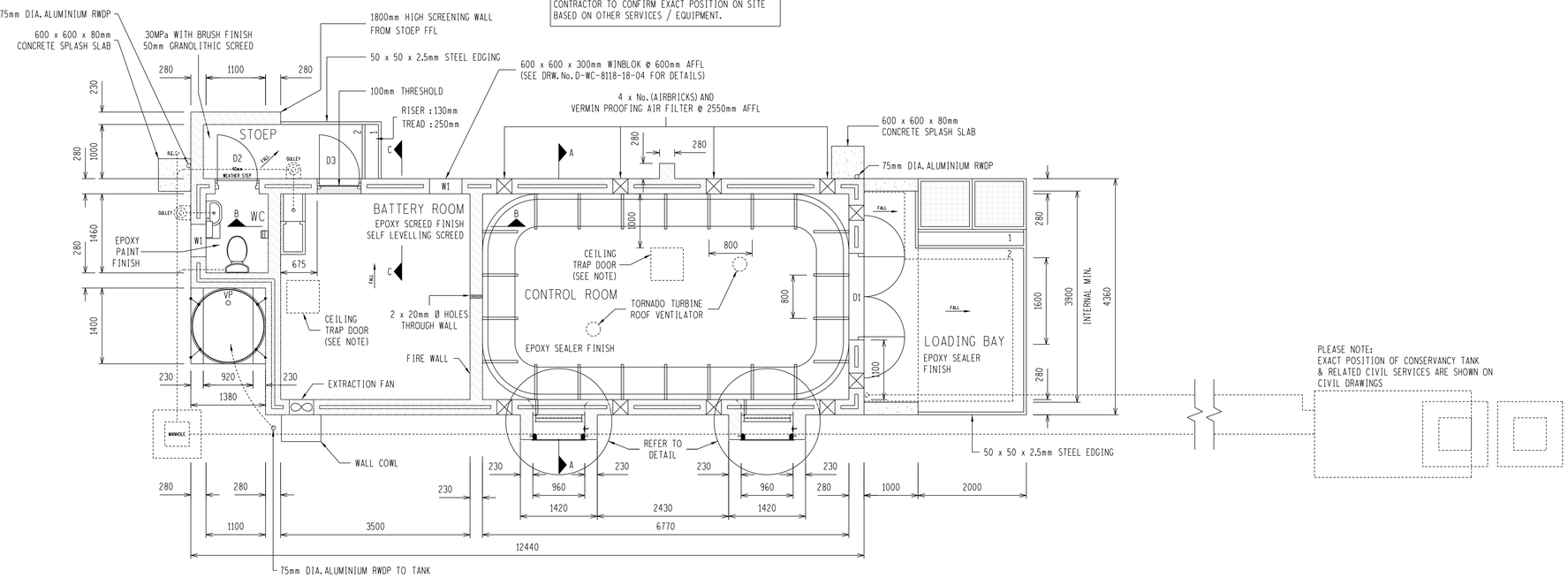
GALV. STEEL : 1 COAT U/UNDERCOAT, 1 COAT EGGSHELL ENAMEL. COLOUR LIGHT GREY (G-35).

INTERNAL WALLS & CEILINGS (EXCLUDING BATTERY ROOM) : 1 FILLER COAT, 2 COATS DULUX 'WASH 'N WEAR' PVA, OR SIMILAR APPROVED. COLOUR WHITE. FINAL COAT TO BE APPLIED BY CONTRACTOR ONLY AFTER COMMISSIONING OF ALL ELECTRICAL EQUIPMENT BY ESKOM.

INTERNAL WALLS & CEILINGS (BATTERY ROOM ONLY): AKZONOBEL DULUX TRADE 'TUFFCOTE WATERBASED EPOXY ENAMEL' PAINT, OR APPROVED EQUIVALENT. COLOUR WHITE. TO BE APPLIED WITH THE APPROPRIATE PREPARATION AND/OR PRIMER. FINAL FINISH TO BE A MINIMUM OF 100 MICRON THICK AND APPLIED TO THE MANUFACTURER'S INSTRUCTIONS.

RAFTER ENDS AND TIMBER : 1 COAT PINK PRIMER, 2 COATS FLAT ENAMEL.

CEILING TRAP DOOR NOTE:
PRELIM POSITION.
CONTRACTOR TO CONFIRM EXACT POSITION ON SITE BASED ON OTHER SERVICES / EQUIPMENT.



PLAN LAYOUT
SCALE 1:50

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	
0	FIRST ISSUE	K.S.				IPP3934514-00003

SHEET 06	FOUNDATION & STEEL REINFORCING LAYOUT
SHEET 05	SECTIONS & DETAILS
SHEET 04	DOOR SCHEDULE & DETAILS
SHEET 03	POWER, LIGHTING & BASIC SIGNAGE LAYOUT
SHEET 02	ELEVATIONS & ROOF PLAN
SHEET 01	GROUND PLAN & DETAILS
DRG NO.	REFERENCE DRAWINGS:

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1924701-2-300-A-DE-0001-01-AE

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DATE:		DATE: / /	
CHKD:		CHKD:	
DATE:		DATE: / /	
DRAWN:	K. STEYNBERG	DRAWN:	
DATE:	16/10/2019	DATE: / /	

Eskom

YSTERVARK SUBSTATION

RELAY HOUSE BUILDING
GROUND PLAN & DETAILS

SET	SHEET	REVISION
D-WC-8118	18	01	0

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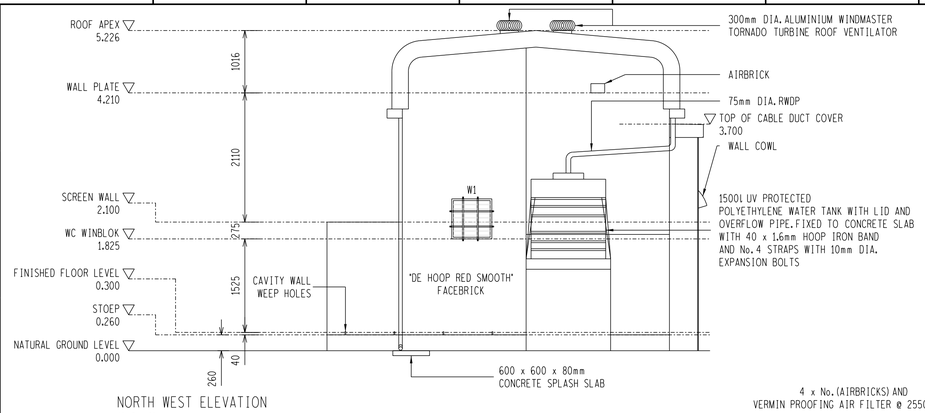
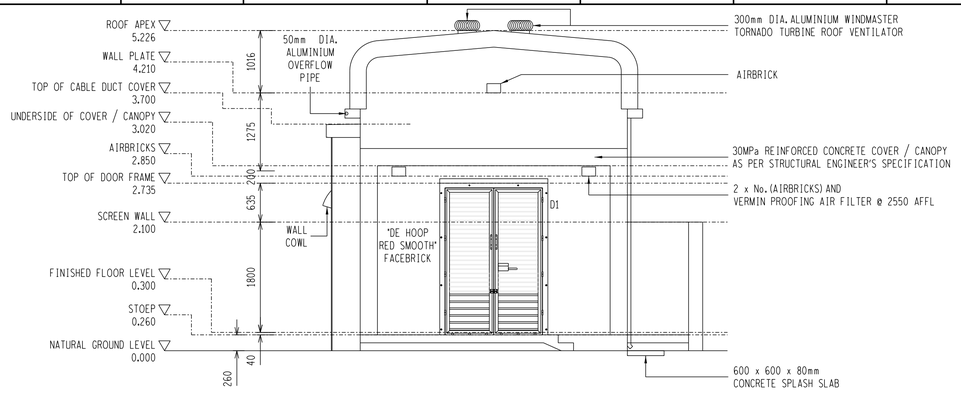
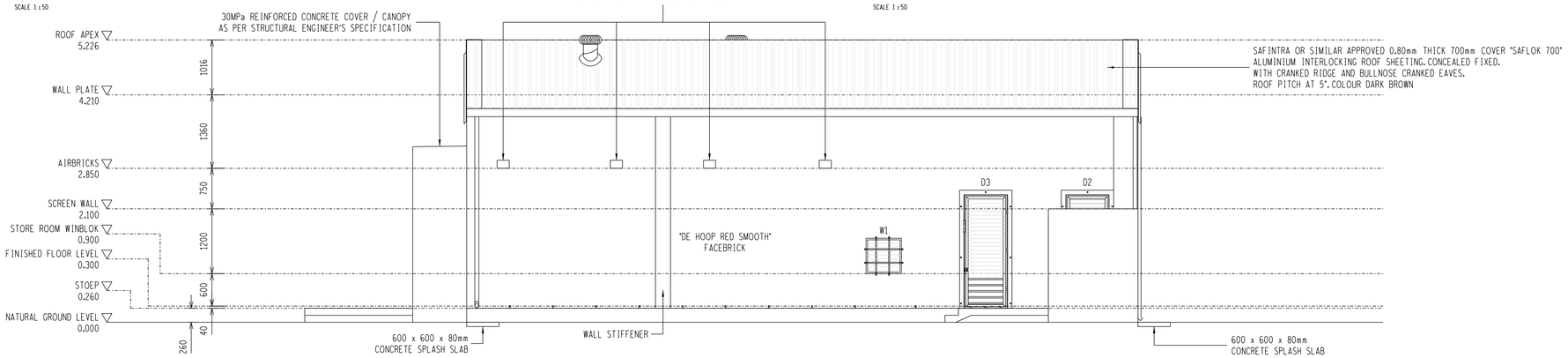


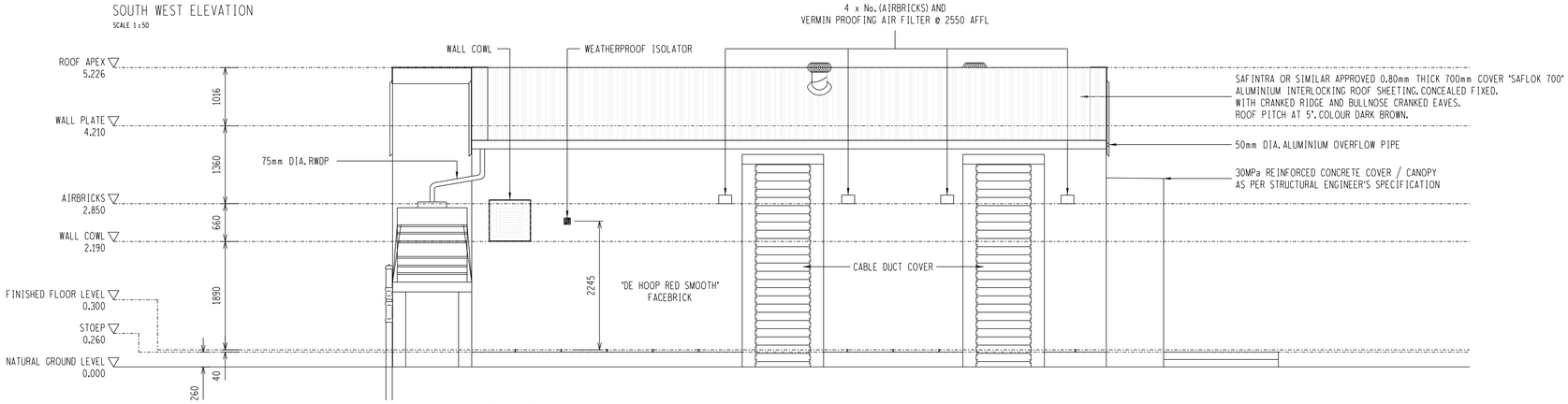
NORTH WEST ELEVATION
SCALE 1:50



SOUTH EAST ELEVATION
SCALE 1:50



SOUTH WEST ELEVATION
SCALE 1:50



NORTH EAST ELEVATION
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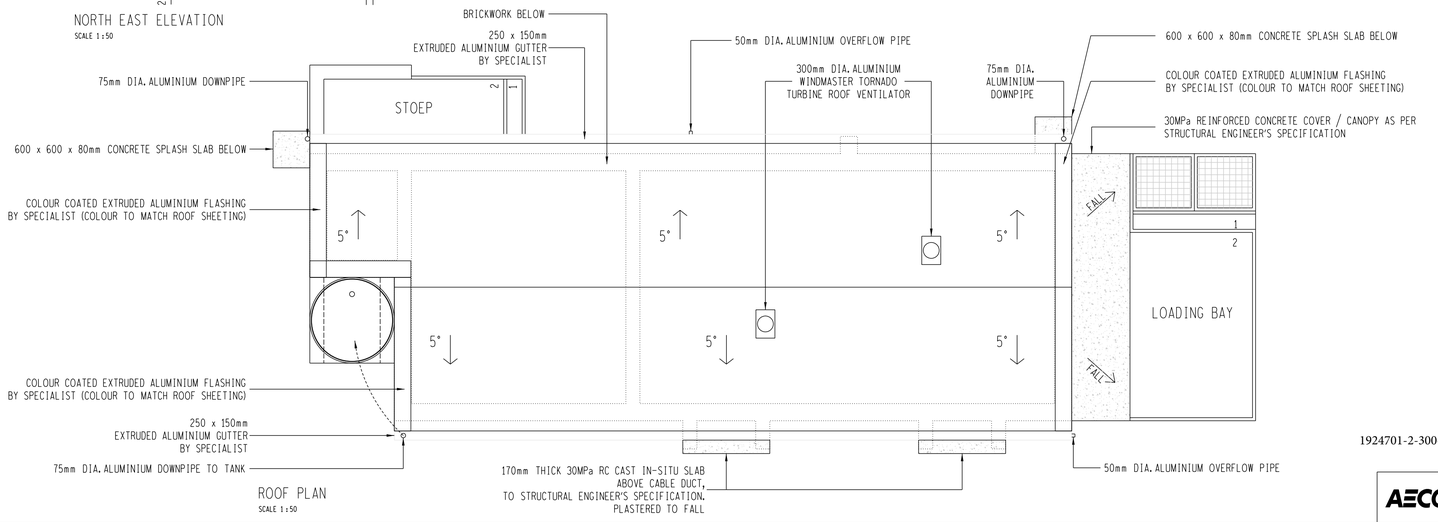

ROOF PLAN
SCALE 1:50

NOTES:

PLEASE REFER TO SHEET 01 FOR NOTES APPLICABLE TO THIS SHEET AS WELL.

ADDITIONAL NOTES REFERRING TO ROOF STRUCTURE:

ROOF COVERING:
SAFINTRA OR SIMILAR APPROVED 0.80mm THICK 700mm COVER "SAFLOK 700" ALUMINIUM INTERLOCKING ROOF SHEETING. CONCEALED FIXED. WITH CRANKED RIDGE AND BULLNOSE CRANKED EAVES. ROOF PITCH AT 5°. COLOUR DARK BROWN.

ROOF TRUSSES:
114 x 38mm RAFTERS TO BE FIXED TO WALLPLATES & TIED DOWN WITH HOOP IRON DESIGN AND SUPPLY BY OTHERS.

WALLPLATES:
114 x 38mm FIXED MIN. 600mm INTO BRICKWORK WITH GALV. HOOP IRON STRAPS

SISALATION:
FR430 FIRE RETARDENT ALUMINIUM FOIL INSULATION, INSTALLED AS PER MANUFACTURER'S SPECIFICATION. INDUSTRIAL SINGLE LAYER DOUBLE SIDED RADIANT BARRIER LAID ON 50mm THICK 'FACTORYLITE' THERMAL INSULATION.

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DRG NO.	REFERENCE DRAWINGS:

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	
0	FIRST ISSUE.	K.S.				IPP39344514-00003

Eskom

YSTERVARK SUBSTATION

RELAY HOUSE BUILDING ELEVATIONS & ROOF PLAN

1924701-2-300-A-DE-0002-01-AE

AUTH:		ACC:	
DATE:	/ /	DATE:	/ /
CHKD:		CHKD:	
DATE:	/ /	DATE:	/ /
DRAWN:	K. STEYNBERG	DRAWN:	
DATE:	16/10/2019	DATE:	/ /

SCALE : AS SHOWN

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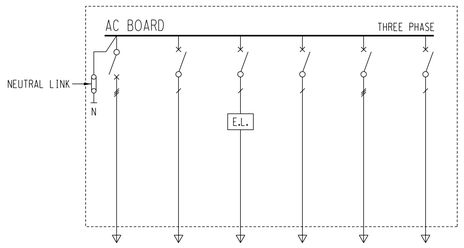
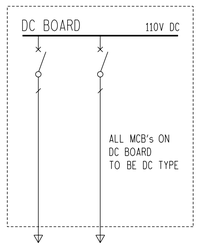
REG. No. 1966/006628/07

SET	SHEET	REVISION
18	02	0

D-WC-8118





LABEL	INCOMER	LIGHTS	SOCKET OUTLETS	WATER TANK PUMP	FAN SUPPLY	BATTERY ROOM	SPARE x 1
CIRCUIT No.		1	2	3	4	5	
PHASE ALLOCATION	R-W-B	R	W	B	R-W-B	R	
CONDUCTOR - mm²		2 x 2.5mm² & 1.25mm² EARTH	2 x 4.0mm² & 2.5mm² EARTH	TBC	3 x 4mm² & 2.5mm² EARTH	2 x 2.5mm² & 1.25mm² EARTH	
CONDUIT - DIA.	CABLE BY ESKOM	20mm DIA.	AS CIR.1	TBC	20mm DIA.	20mm DIA.	
M.C.B. RATING - AMPS	60	10	20	TBC	10	10	

INCOMER	DC LIGHTS	
	2 x 1.5mm² & 2.5mm² EARTH	
CABLE BY ESKOM		
10	5	

DISTRIBUTION BOARDS DIAGRAM

NOTE:
CIRCUIT No.3 DETAILS DEPENDENT ON WATER TANK PUMP DETAILS - TBC.

DC LIGHTING

FITTINGS SYMBOL '◉' ARE THE EMERGENCY FITTINGS : (SEE DIAGRAM FOR WIRING OF DC LIGHTS).

FITTINGS TO BE CONNECTED TO THE TIMER SWITCH, CONTACTOR AND DC BOARD. ESKOM TO WIRE FROM DC BOARD TO ESKOM AC/DC PANEL.

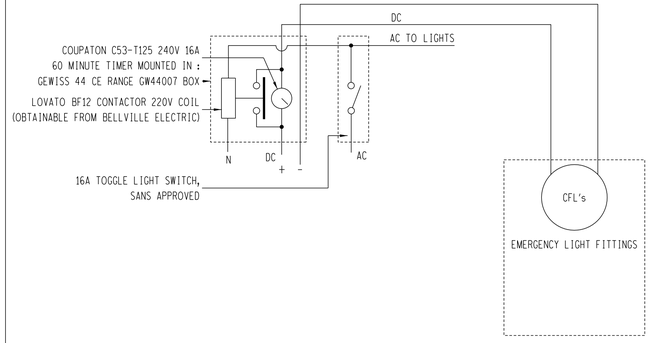


DIAGRAM SHOWING THE CONNECTION BETWEEN THE EMERGENCY LIGHT FITTING, CONTACTOR AND TIMER

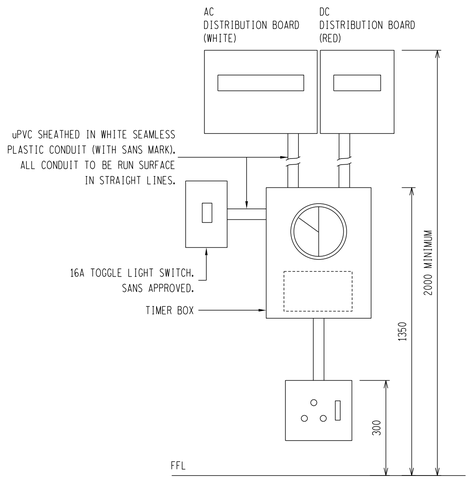


DIAGRAM SHOWING THE TIMER BOX IN COMPARISON TO THE AC LIGHT SWITCH

ELECTRICAL SPECIFICATION

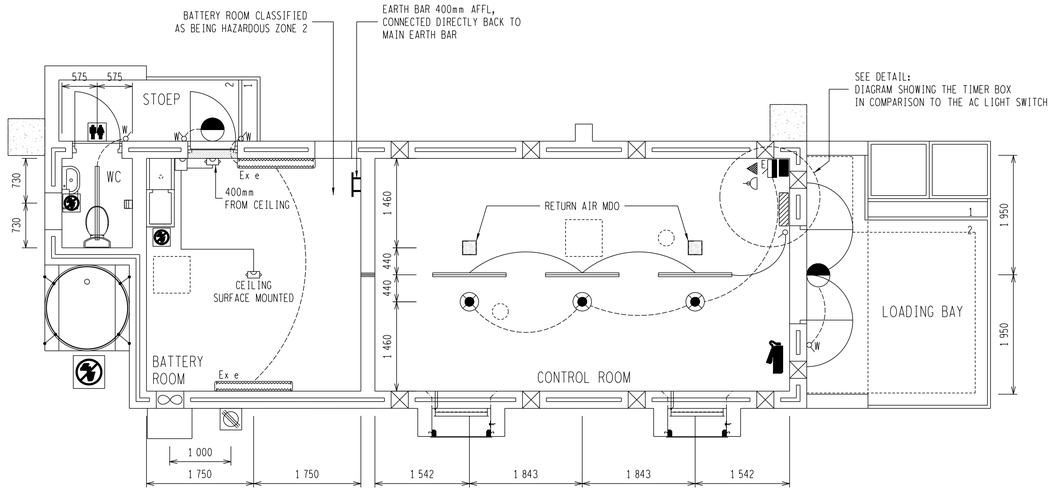
GENERALLY. ALL ELECTRICAL WORK TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE LATEST REVISIONS OF SANS 10142-1-2003 THE WIRING OF PREMISES.

A. ELECTRICAL LEGEND

	54W LED R-BAY-54W-LED AS LASCON BY VOLTEX LIGHTING: FLOURECENT FITTING FIXED TO CEILING AS PER MANUFACTURER'S DETAILS						
AMOUNT REQUIRED	003	PLACEMENT	WALL		CEILING SURFACE MOUNTED	✓	
Ex e	47W 4000K NORDLAND JBP-LED IP66 RATED ZONE 2 LUMINAIRE, INCLUDING FOR Ex e CERTIFICATION						
AMOUNT REQUIRED	002	PLACEMENT	WALL @ 2800mm	✓	CEILING SURFACE MOUNTED		
	17.5W LED LASCON RIMINI-17.5W-LED / EYELID IP65 RATED. COLOUR WHITE.						
AMOUNT REQUIRED	002	PLACEMENT	WALL @ 2800mm	✓	CEILING SURFACE MOUNTED		
	DTC CLEAR HIGH VISOR BULKHEAD FITTING BY VOLTEX. BULB : 20W TORNADO TWISTED WITH INTERGRATED BALLAST. TO BE CONNECTED TO DC BOARD AND COUPATON C53-T125 240V 16A 60 MINUTE TIMER						
AMOUNT REQUIRED	003	PLACEMENT	WALL @ 2800mm		CEILING SURFACE MOUNTED	✓	
	RED : DC (EMERGENCY LIGHTS) SURFACE MOUNTED DISTRIBUTION BOARD. PLACED NEXT TO AC BOARD. TOP OF BOARD MOUNTED MIN. 2000mm ABOVE FLOOR LEVEL. TO BE CONNECTED TO DC LIGHTS AND COUPATON C53-T125 240V 16A 60 MINUTE TIMER. TO BE METAL CLAD 3 WAY SURFACE MOUNTED AS HEINEMANN WITHOUT DOOR. FRONT COVER TO ALLOW OPERATION OF DOLLIES. MCB's TO BE CLEARLY NAMED AS TO CIRCUIT AND USE. FRONT COVER TO BE PAINTED RED TO IDENTIFY THE DC USE.						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 2200mm	✓			
	WHITE : AC (PRIMARY LIGHTS) SURFACE MOUNTED DISTRIBUTION BOARD. PLACED NEXT TO DC BOARD. TOP OF BOARD MOUNTED MIN. 2000mm ABOVE FLOOR LEVEL. TO BE CONNECTED TO AC LIGHT FITTINGS. TO BE METAL CLAD 4 WAY SURFACE MOUNTED AS HEINEMANN WITHOUT DOOR. FRONT COVER TO ALLOW OPERATION OF DOLLIES WITHOUT REMOVAL. BOARD TO BE CABELED TO ESKOM AC/DC PANEL BY ESKOM WITHOUT REMOVAL. MCB's TO BE CLEARLY NAMED AS TO CIRCUIT AND USE & TO HAVE 5kA RATING. EARTH LEAKAGE UNIT TO BE HY-MAG OR EQUAL APPROVED.						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 2200mm	✓			
W	GEWISS 9000.7519 WATERTIGHT TOGGLE TYPE SWITCH WITH RED PILOT LIGHT. SANS APPROVED						
AMOUNT REQUIRED	004	PLACEMENT	WALL @ 1350mm	✓			
	16A TOGGLE LIGHT SWITCH. SANS APPROVED						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 1350mm	✓			
E	COUPATON C53-T125 240V 16A 60 MINUTE TIMER MOUNTED IN GEWISS 44 CE RANGE GW44007 BOX WITH LOVATO BF12 CONTACTOR 220V COIL (OBTAINABLE FROM BELLVILLE ELECTRIC)						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 1350mm	✓			
T	TELEPHONE OUTLET WITH 25mm CONDUIT TO CABLE TRAY OVER						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 1350mm	✓			
	16A SURFACE MOUNTED INDUSTRIAL SOCKET OUTLET (3 PIN ROUND)						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 300mm	✓			
	WEATHERPROOF TRIPLE-POLE ISOLATOR TO BE SIZED GREATER THAN SUPPLY BREAKER						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 2245mm	✓			
	EXTRACTOR FAN SPECIFICATIONS: VOLTAGE: 400V FREQUENCY: 50Hz PHASE: 3 INSULATION CLASS: F ENCLOSURE CLASS, MOTOR: IP44 CERTIFICATE: ZELM 05ATEX0279X EXPLOSION PROOF: II 2G c Ex e IIC T4 MINIMUM No. OF AIR CHANGES REQUIRED: 5.5 TIMES/HOUR						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 2245mm	✓			
	HYDROGEN GAS DETECTOR - MAIN CONTROL						
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 1600mm	✓			
	HYDROGEN GAS DETECTOR - SENSOR						
AMOUNT REQUIRED	002	PLACEMENT	AS INDICATED ON LAYOUT				

NOTES FOR BATTERY ROOM INSTALLATION:

1. ZONE 2 INSTALLATION SHALL BE UNDERTAKEN BY A CERTIFIED MASTER ELECTRICIAN.
2. ALL CABLES / CONDUITS SHALL BE SURFACE MOUNTED.



NOTES:

TABLE 1-SAFETY SIGNS REQUIRED FOR BATTERY ROOMS

DESCRIPTION	REQUIRED LOCATION OF SAFETY SIGN	ESKOM CODE AND DRAWING NUMBER
A) A NOTICE IDENTIFYING THE ROOM AS BEING A BATTERY ROOM AND ITS TYPE OF HAZARDOUS CLASSIFICATION (ZONE 2). B) IT CLEARLY SETS OUT THE ELEMENTARY FIRST AID PROCEDURES IN THE CASE OF EYE AND/OR SKIN CONTACT WITH AN ACID OR ALKALI. C) A NO-SMOKING PROHIBITIVE SIGN AND CORROSIVE SUBSTANCE WARNING SIGN ARE ALSO POSTED ON THE NOTICE. D) THE NOTICE ALSO DISPLAYS THAT UNAUTHORIZED ENTRY TO THE BATTERY ROOM IS PROHIBITED.	AT THE DESIGNATED ENTRANCE TO THE BATTERY ROOM.	DCSS 1 : D-DT-5022 SHEET 1
A) THIS NOTICE SHOWS THAT OPEN FLAMES ARE PROHIBITED INSIDE THE BATTERY ROOM. B) IT ALSO SHOWS THAT AN APRON, EYE PROTECTION AND GLOVES SHALL BE WORN.	ON WALL DIRECTLY OPPOSITE THE ENTRANCE TO THE BATTERY ROOM.	DCSS 3 : D-DT-5022 SHEET 3
A NOTICE INDICATING THE LOCATION OF THE EYE WASH EQUIPMENT.		GA 19 : D-DT-5023 SHEET 2
A NOTICE SHOWING THAT THE DRINKING OF WATER IS PROHIBITED (WHEN APPLICABLE).	ON WALL DIRECTLY ABOVE BATTERY ROOM SINK OR WATER CONTAINER.	PV 5 : D-DT-5023 SHEET 3
BATTERY ROOM CIVILS TO COMPLY WITH SPECIFICATION FOR BATTERY ROOMS.		DSP 34-479

LEGEND: BATTERY ROOM FITTINGS

N.B. : SUPPLIED PIPING TO BE EITHER COPPER OR POLYCOP WITH SABS MARK.

1. 1 x WHITE GLAZED DRAINER ON WALL BRACKETS ON DOOR SIDE. DRAINER TO DRAIN DIRECTLY INTO SINK.
2. HAND SHOWER TO COBRA No. 519-21, COMPLETE WITH TRIGGER ACTION CONTROL NOZZLE, WALL BRACKET, HOSE & CP WALL MOUNTED ELBOW ACTION TAP.
3. WALL MOUNTED ELBOW ACTION TAP WITH THREADED SPOUT.
4. WHITE GLAZED 600 x 400 x 200mm LABORATORY SINK AS VAAL CODE 2360 OR EQUALLY APPROVED, COMPLETE WITH WALL BRACKETS, PLUG & CHAIN. 38mm DIA. ACID RESISTANT WASTEPIPE.
5. PVS P-TRAP.
6. 38mm DIA. ACID RESISTANT WASTEPIPE TO DISCHARGE WASTE WATER OUTSIDE, SUPPORTED WITH HALVED PIPE HOLDER.

B. MISCELLANEOUS LEGEND

	9kg SABS APPROVED PORTABLE FIRE EXTINGUISHER DRY POWDER TYPE (STORED PRESSURE) CYLINDRICAL SHAPED SUITABLE FOR FIGHTING FIRES OF CLASS ABC (SANS 1910)					UNISEX TOILET SIGNAGE					NON-POTABLE WATER SIGNAGE				
AMOUNT REQUIRED	001	PLACEMENT	WALL @ 1460mm		✓	AMOUNT REQUIRED	001	PLACEMENT	WALL @ 1460mm	✓	AMOUNT REQUIRED	003	PLACEMENT	WALL @ 1460mm	✓

SHEET 06	FOUNDATION & STEEL REINFORCING LAYOUT
SHEET 05	SECTIONS & DETAILS
SHEET 04	DOOR SCHEDULE & DETAILS
SHEET 03	POWER, LIGHTING & BASIC SIGNAGE LAYOUT
SHEET 02	ELEVATIONS & ROOF PLAN
SHEET 01	GROUND PLAN & DETAILS
DRG NO.	REFERENCE DRAWINGS:

1924701-2-300-A-DE-0003-01-AE

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NUMBER
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SCALE 1:50

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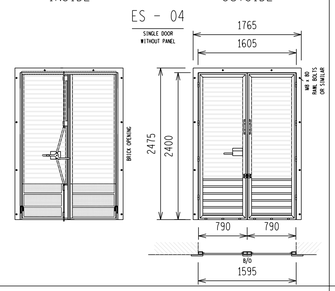
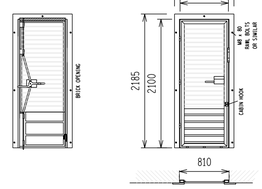
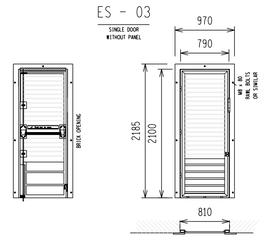
Eskom

AUTH: DATE: / /
CHKD: DATE: / /
DRAWN: K. STEYNBERG DATE: 12/09/2019
ACC: DATE: / /
CHKD: DATE: / /
DRAWN: DATE: / /

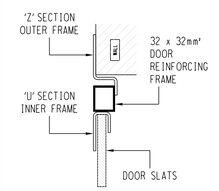
YSTERVARK SUBSTATION

RELAY HOUSE BUILDING POWER, LIGHTING & BASIC SIGNAGE LAYOUT

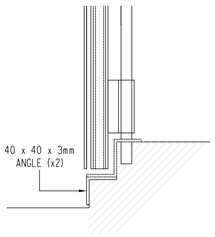
	SET	SHEET	REVISION
D-WC-8118	18	03	0

DOOR ELEVATION	INSIDE / OUTSIDE ES - 04 SINGLE DOOR WITHOUT PANEL 	INSIDE / OUTSIDE ES - 01 SINGLE DOOR WITHOUT PANEL 	INSIDE / OUTSIDE ES - 03 SINGLE DOOR WITHOUT PANEL 
DOOR NUMBER	D1	D2	D3
POSITION	CONTROL ROOM	WC	BATTERY ROOM
FRAME	WELDED GALVANISED MILD STEEL FRAME COMPLETE WITH BUILDING IN LUGS.	WELDED GALVANISED MILD STEEL FRAME COMPLETE WITH BUILDING IN LUGS.	WELDED GALVANISED MILD STEEL FRAME COMPLETE WITH BUILDING IN LUGS.
DOOR TYPE	DUAL SWING STEEL DOORS WITH LEAF DIMENSION OF 800mm. TO HAVE A TOTAL OPENING SIZE OF 2400 x 1600mm WIDTH. CURTAIN : STANDARD GALV. (Z275) 75 x 1.2mm INTERLOCKING SLATS	SINGLE SWING STEEL DOOR WITH LEAF DIMENSION OF 790mm. TO HAVE A TOTAL OPENING SIZE OF 2100 x 810mm WIDTH. CURTAIN : STANDARD GALV. (Z275) 75 x 1.2mm INTERLOCKING SLATS	SINGLE SWING STEEL DOOR WITH LEAF DIMENSION OF 790mm. TO HAVE A TOTAL OPENING SIZE OF 2100 x 810mm WIDTH. CURTAIN : STANDARD GALV. (Z275) 75 x 1.2mm INTERLOCKING SLATS
FINISH	HOT DIP GALVANISED OR FINISHED WITH COLOUR TO BE APPROVED BY ESKOM.	HOT DIP GALVANISED OR FINISHED WITH COLOUR TO BE APPROVED BY ESKOM.	HOT DIP GALVANISED OR FINISHED WITH COLOUR TO BE APPROVED BY ESKOM.
IRONMONGERY – HINGES	4 x 80mm BULLET HINGES PER DOOR LEAF	4 x 45mm BULLET HINGES PER DOOR LEAF	4 x 45mm BULLET HINGES PER DOOR LEAF
IRONMONGERY – LOCK SET / LOCK	3 POINT LOCKING SYSTEM TO LOCK INTO TOP DOOR FRAME 'L' ANGLE AND BOTTOM OF 'L'.	3 POINT LOCKING SYSTEM TO LOCK INTO TOP DOOR FRAME 'L' ANGLE AND BOTTOM OF 'L'.	UNION 801 DMG STEEL 'PANIC PROBOLT' WITH A TWO TOP AND BOTTOM LOCKING POINTS VERTICAL BAR OR BOTTOM LOCKING POINTS VERTICAL BAR OR EQUAL APPROVED.
IRONMONGERY – BOLTS	M8 x 80 RAWL BOLTS OR SIMILAR	M8 x 80 RAWL BOLTS OR SIMILAR	M8 x 80 RAWL BOLTS OR SIMILAR
MISC.	N.B. DOORS TO HAVE 30 x 6mm SELF ADHESIVE RUBBER SEALING STRIPS FIXED TO INNER EDGES OF FRAME TO PROVIDE DUST EXCLUSION		

SECTION

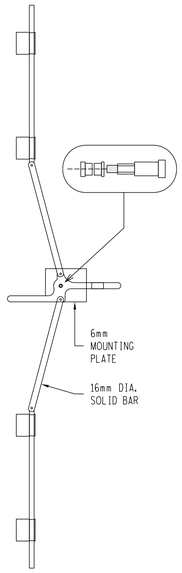


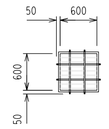
TOP VIEW FRAME DETAIL



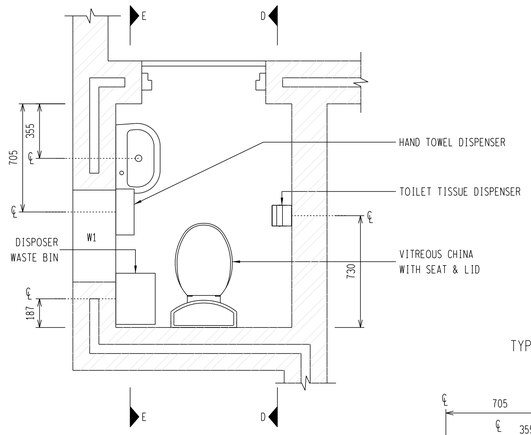
BOTTOM LOCKING DETAIL

3 POINT LOCKING SYSTEM

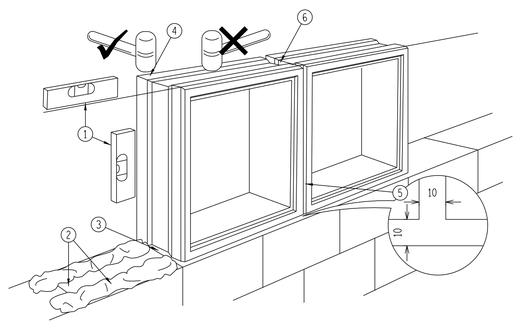




WINDOW TYPE	W1 (WINBLOK BY WINTEC)
DESCRIPTION	600 x 600 x 300mm PRECAST CONCRETE WINTEC 'WINBLOK' WB66 (B) UNIT, FACTORY FITTED WITH STANDARD 20 x 6mm GALV. STEEL BURGLAR BARS BY WINTEC. THE WINBLOK UNIT IS TO COME COMPLETE WITH NATURAL ANODIZED ALUMINIUM FIXED LOUVRES, 'WINLOUVRE WL (A) 66E', FITTED USING NON-ASCETIC SILICONE SEALANT. REBATES TO FACE TO EXTERNAL SKIN OF WALL.



TOILET PLAN VIEW
SCALE 1:20



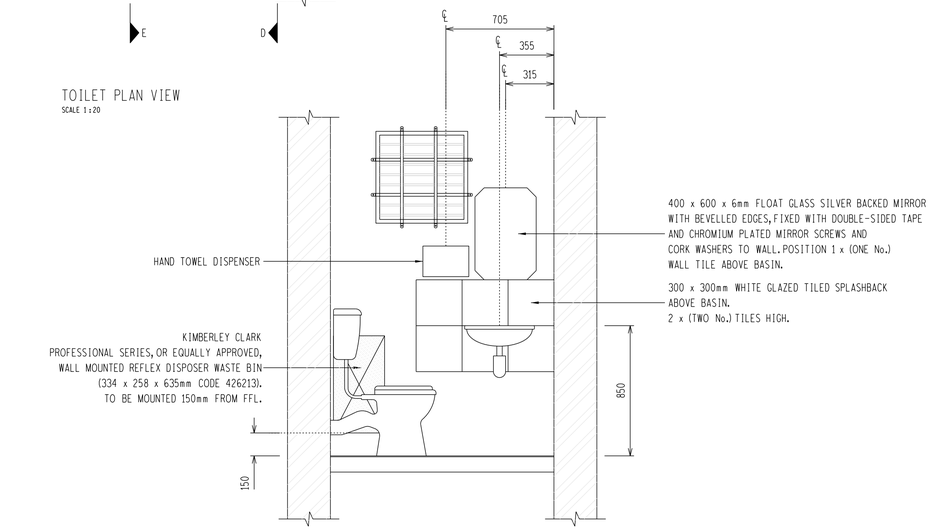
TYPICAL WINBLOK INSTALLATION DETAIL

BUILDING THE WINBLOK® IN, AS PER MANUFACTURER'S CATALOGUE

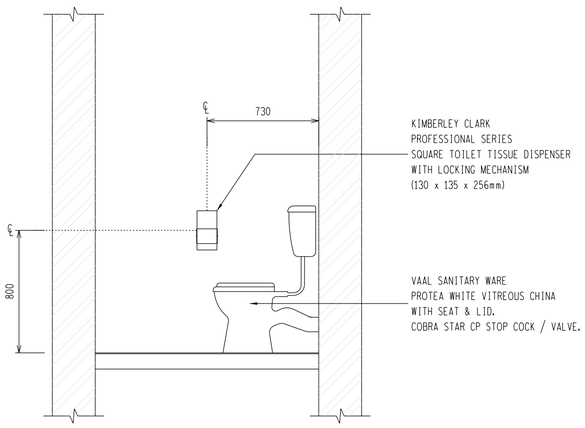
IN GENERAL, STANDARD PRACTICES FOR CONCRETE MASONRY CONSTRUCTION SHOULD BE APPLIED TO WINBLOK® CONSTRUCTION WITH PARTICULAR REFERENCE TO SHRINKAGE CONTROL JOINTS IN LARGE WINBLOK® PANELS. CLASS 1 MORTAR AS DEFINED IN CLAUSE 3.4.1 OF SABS 0164 : PART 1-1980 SHOULD BE USED FOR ALL JOINTING.
THE CORRECT USAGE OF DAMP PROOF COURSES IS ESSENTIAL.

1. THE WINBLOK® MUST BE LAID PLUMB TO THE BUILDERS LINE.
2. LAY WINBLOK® ON A STIFF STRONG 1:3 MIX *MORTAR BED IN TWO CONTINUOUS STRIPS.
3. ALLOW THE MORTAR TO SQUASH OUTWARD AND INWARD OF THE REBATE.
4. A RUBBER MALLET MAY BE USED ONLY ON THE CORNERS TO TAP THE WINBLOK® DOWN TO THE LINE.
5. THE PERPENDICULAR JOINT BETWEEN WINBLOK® SURROUNDS SHOULD ALWAYS BE LEFT OPEN, WITH A JOINT SPACE BETWEEN EACH WINBLOK®, UNTIL A WHOLE ROW HAS BEEN LAID.
6. A DRY-MIX, NO-FINES, AGGREGATE (E.G. 13mm STONE) SHOULD BE POURED INTO THE CAVITY BETWEEN THE VERTICAL REBATES. THE VERTICAL JOINTS MAY THEN BE BACK GROUTED WITH MORTAR BEFORE TOOLING THE JOINTS. THE NO-FINES AGGREGATE ACTS AS A MOISTURE BARRIER BY INTERRUPTING CAPILLARY MIGRATION.

* MORTAR LAID ACROSS THE FULL WALL SURFACE MAY CAUSE PRESSURE IN THE REBATE AND FRACTURE THE BOTTOM FLANGE. NO MORTAR SHOULD BE ALLOWED TO BRIDGE THE REBATE CAVITY WALLS AND CARE SHOULD BE TAKEN TO MAINTAIN A CONTINUOUS CAVITY. MORTAR MUST BE KEPT CLEAR OF THE VERTICAL REBATES.



SECTION D-D
SCALE 1:20



SECTION E-E
SCALE 1:20

SHEET 06	FOUNDATION & STEEL REINFORCING LAYOUT
SHEET 05	SECTIONS & DETAILS
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DRG NO.	REFERENCE DRAWINGS:

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	
0	FIRST ISSUE	K.S.				IPP39344514-00003

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YSTERVARK SUBSTATION

RELAY HOUSE BUILDING

DOOR SCHEDULE & DETAILS

AUTH:	ACC:		
DATE:	DATE: / /		
CHKD:	CHKD:		
DATE:	DATE: / /		
DRAWN: K. STEYNBERG	DRAWN:	SET	SHEET	REVISION
DATE: 16/10/2019	DATE: / /	18	04	0

D-WC-8118

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1924701-2-300-A-DE-0004-01-AE

SAFINTRA OR SIMILAR APPROVED 0.8mm THICK 700mm COVER 'SAFLOK 700' ALUMINIUM INTERLOCKING ROOF SHEETING. CONCEALED FIXED. WITH CRANKED RIDGE & BULLNOSE CRANKED EAVES. ROOF PITCH AT 5°. COLOUR TO BE DARK BROWN.

SKIMMED 9.5mm RHINOBOARD CEILING SUSPENDED FROM ROOF TRUSSES

300mm DIA. ALUMINIUM WINDMASTER TORNADO TURBINE ROOF VENTILATOR.

'MITEK' GANG-NAIL TIMBER ROOF TRUSS. DESIGN & SUPPLY BY MANUFACTURER.

'SISALATION' OR SIMILAR APPROVED. INDUSTRIAL SINGLE LAYER DOUBLE SIDED RADIANT BARRIER LAID ON 50mm THICK 'FACTORYLITE' THERMAL INSULATION.

170mm THICK RC CAST IN-SITU SLAB TO STRUCTURAL ENGINEER'S SPECIFICATION. PLASTERED TO FALL.

150 x 250mm EXTRUDED ALUMINIUM GUTTER BY SPECIALIST

FIBRE OPTIC CABLE RACK

CABLE RACK

280mm CAVITY WALL WITH BRICKFORCE EVERY 4th COURSE. 'DE HOOP RED SMOOTH' FACEBRICK OUTER SKIN & PLASTERED COMMON BRICK INNER SKIN.

CABLE DUCT

MESH 617

FOUNDATION & SURFACE BED MPa AS PER NOTES ON SHEET 01

SECTION A-A
SCALE 1:20

SANITARY WARE - BATTERY ROOM:

1 x (ONE No.) VITREOUS CHINA WHITE GLAZED DRAINER ON WALL BRACKETS, INSTALLED ON DOOR SIDE. DRAINER TO DRAIN DIRECTLY INTO SINK.

COBRA (519-21) HAND SHOWER, COMPLETE WITH TRIGGER ACTION CONTROL NOZZLE, WALL BRACKET, HOSE, CP WALL MOUNTED ELBOW ACTION TAP, OR APPROVED EQUIVALENT.

WALL MOUNTED ELBOW ACTION TAP WITH THREADED SPOUT.

VAAL (CODE 2360) VITREOUS CHINA GLAZED 600 x 400 x 200mm LABORATORY SINK, COMPLETE WITH WALL BRACKETS, FIXATION BOLTS MATCHING MANUFACTURER'S INSTRUCTIONS, PLUG AND CHAIN, 35mm ACID RESISTANT WASTE PIPE, OR APPROVED EQUIVALENT.

38mm DIA. ACID RESISTANT WASTE PIPE SUPPORTED WITH HALVED PIPE HOLDER TO DISCHARGE WASTE WATER OUTSIDE.

PVC P-TRAP.

WC

BATTERY ROOM

CONTROL ROOM

D3

W1

Push for in open

MESH 617

STEP (THRESHOLD) OF 100mm IN HEIGHT TO CONTAIN ANY SPILL OR LEAK INSIDE THE ROOM.

FOUNDATION & SURFACE BED MPa AS PER NOTES ON SHEET 01

SECTION B-B
SCALE 1:20

NOTE:
REFER TO NOTES REGARDING FLOOR FINISHES, PAINT FINISHES, ROOF SHEETING, ETC. ON SHEET 01

STEP (THRESHOLD) OF 100mm IN HEIGHT TO CONTAIN ANY SPILL OR LEAK INSIDE THE ROOM.

MESH 617

FOUNDATION MPa AS PER NOTES ON SHEET 01

SECTION C-C
SCALE 1:20

250 x 150mm DEEP EXTRUDED ALUMINIUM GUTTER BY SPECIALIST.

50mm DIA. ALUMINIUM OVERFLOW PIPE AT GUTTER END.

GUTTER OVERFLOW PIPE DETAIL
SCALE 1:10

MESH 617

DPC 375 MICRON

DPM 375 MICRON

40mm BLINDING LAYER

CAVITY FILL 20MPa CONCRETE. 3 x Y12 REINFORCING BARS EQUALLY SPACED. BRICKFORCE EVERY COURSE UP TO FLOOR LEVEL.

FOUNDATION MPa AS PER NOTES ON SHEET 01

TYPICAL FLOOR / FOUNDATION SECTION
SCALE 1:20

50 x 6mm MILD STEEL FLAT BAR (GALVANISED) RING TO FIT INSIDE LIFTING LUGS OF WATERTANK.

M10 EYE BOLT

TANK SECURING DETAIL
SCALE :NTS

RAINWATER DOWNPIPE FROM GUTTER

4.5mm COATED STEEL CABLE, HEAVY DUTY RATING OR 40 x 1.6mm GALV. HOOP IRON BAND & No. 4 STRAPS TO BE FIXED TO SLAB WITH 10mm DIA. EXPANSION BOLTS.

1500l PROTECTED POLYETHELENE WATER TANK WITH LID. TANK TO BE FITTED WITH TAP & OVERFLOW PIPE.

GALVANISED TURN BUCKLE

TIE DOWN BRACKET, FIXED WITH M10 RAWLBOLT®

WATER TANK & STRAP DETAIL
SCALE 1:20

12mm DIA.

TIE DOWN BRACKET DETAIL
6mm THICK GALVANISED MILD STEEL (4 OFF)
SCALE 1:50

WALL CAVITY

50 x 3mm TINNED FLAT COPPER EARTH STRAP TO BUILDING EARTHING SYSTEM

EXTERNAL WALL

INTERNAL WALL

ANTENNA / BRACKET EARTHING DETAIL
SCALE 1:20

EQ

EQ

WATER TANK BASE PLAN VIEW
SCALE 1:20

170mm CONC. SLAB (WITH 25 x 25mm CHAMFERED EDGES), REINFORCED WITH 617 WELDMESH, MIN. 50mm FROM BOTTOM OF SLAB

10 x R10 (MK1) REINFORCING

10 x R10 (MK2) REINFORCING

BRUSH FINISH

REFER TO DETAIL

FACEBRICK

1750 x 1590 x 200mm CONC. STRIP FOUNDATION

FGL

SECTION (F-F) THROUGH WATER TANK BASE
SCALE 1:20

HOT DIPPED GALVANISED STEEL ANGLE (75 x 50 x 6mm) WITH R8 FISHTAIL LUGS @ 300mm c/c

(REINFORCING NOT SHOWN FOR CLARITY PURPOSES)

CONCRETE EDGE CORNER DETAIL FOR WATER TANK BASE
SCALE 1:5

TYPICAL CONCRETE CORNER DETAIL
SCALE 1:5

REINFORCEMENT SCHEDULE					
MK	TYPE & SIZE	CUTTING LENGTH	SHAPE CODE	QTY	BENDING REMARKS
1	R10	2950	60	10	1280 x 90
2	R10	2900	60	10	1280 x 70

SHEET 06	FOUNDATION & STEEL REINFORCING LAYOUT
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DATE: DATE: / /

CHKD: CHKD:
DATE: DATE: / /

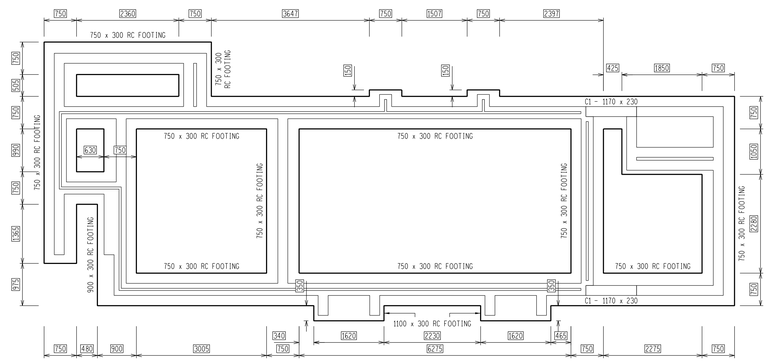
DRAWN: K. STEYNBERG DRAWN:
DATE: 16/10/2019 DATE: / /

YSTERVARK SUBSTATION

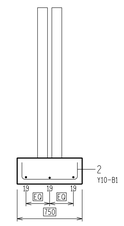
RELAY HOUSE BUILDING SECTIONS & DETAILS

1924701-2-300-A-DE-0005-01-AE

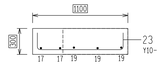
SET	SHEET	REVISION
D-WC-8118	18	05	0



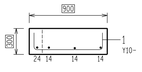
FOUNDATION LAYOUT
SCALE 1:50



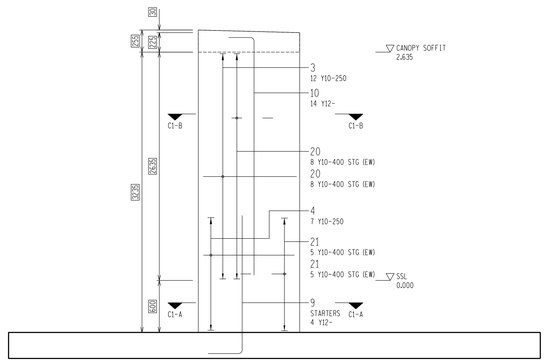
SECTION A-A
SCALE 1:25



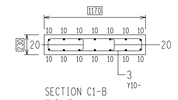
SECTION B-B
SCALE 1:25



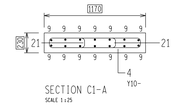
SECTION C-C
SCALE 1:25



COLUMN C1 - 230 x 170
(2 OFF)
SCALE 1:25



SECTION C1-B
SCALE 1:25



SECTION C1-A
SCALE 1:25

NOTES:

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON SITE & NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. REFER TO EARTHING ARRANGEMENT DETAIL DRAWINGS FOR EARTHING REQUIREMENTS OF FOUNDATION & STEELWORK.
4. ALL REINFORCEMENT STEEL SHALL BE ARC WELDED TOGETHER FOR EARTHING PURPOSES.
5. ALL EXCAVATIONS & FOUNDING LEVELS SHALL BE INSPECTED & APPROVED BY ENGINEER PRIOR TO CASTING OF CONCRETE.
6. ALL CONCRETE FOUNDATIONS SHALL BE CAST ON 15MPa BLINDING.
7. CONCRETE GRADE STRENGTH: 35MPa / 19mm STONE WITH XYPEX & ADDITIONAL WATERPROOFING MEASURES - AS PER TECHNICAL SPECIFICATIONS - 1424506-4-000-G-SP-0001.
8. ALL EXPOSED CONCRETE EDGES SHALL HAVE 25 x 25mm CHAMFER ALL ROUND.
9. COVER TO REINFORCEMENT SHALL BE 50mm MIN.
10. ALL EXPOSED HORIZONTAL CONCRETE SURFACES SHALL BE WOOD FLOATED.
11. HJL BOLTS SHALL NOT BE ARC WELDED TO REINFORCING STEEL ONLY BY MEANS OF CONNECTION CONDUCTOR & EXOTHERMIC WELDING.

FOUNDATION TYPES - GENERAL:

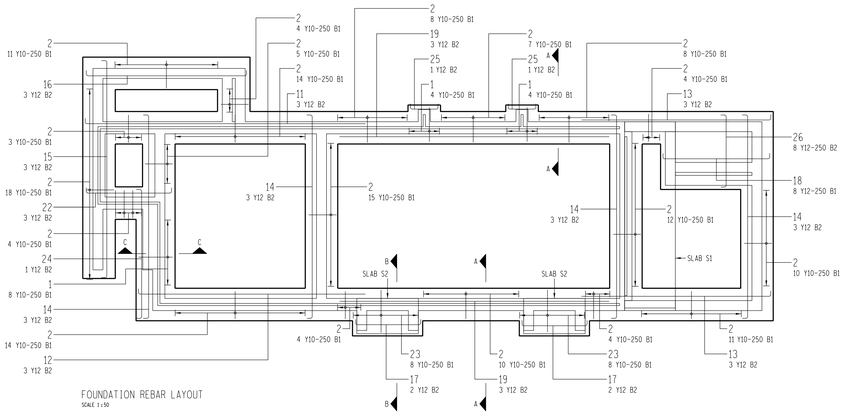
TYPE 1 : FOR COMPACT NON-COHESIVE SOILS CONSISTING OF GRAVELS AND SANDS LOCATED ABOVE THE WATER TABLE. NO REINFORCING IS REQUIRED.

TYPE 2 : FOR STIFF OR FIRM COHESIVE SOILS CONSISTING OF CLAYS AND SILTS THE FOUNDATION TO HAVE A SINGLE LAYER OF BRC WELDMESH 617 PLACED IN THE CENTRE OF THE FOUNDATION, ie 125mm FROM BOTTOM OF FOUNDATION BOTTOM.

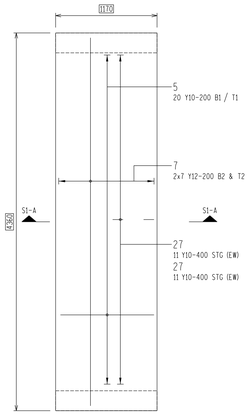
TYPE 3 : FOR SOILS CONSISTING OF SOFT CLAYS AND SILTS OR SUBMERGED SOILS THE FOUNDATION AND THE REINFORCEMENT TO BE DESIGNED BY A REGISTERED CIVIL ENGINEER.

MEMBER NAME	No.	MARK	TYPE Y Grade450	NUMBER ELEMENT	NUMBER TOTAL	LENGTH	SHAPE CODE	A (mm)	B (mm)	C (mm)	REV
C1	2	3	10	12	24	2730	74	1090	150		
		4	10	7	14	2580	74	1060	120		
		9	12	14	28	1970	37	400	1600		
		10	12	14	28	3020	37	300	2750		
		20	10	16	32	350	35	150			
		21	10	10	20	320	35	120			
RSF-01	1	1	10	16	16	1150	38	200	800	200	
		2	10	166	166	1000	38	200	650	200	
		11	12	3	3	6580	34	6480			
		12	12	3	3	5350	34	5240			
		13	12	6	6	4480	34	4380			
		14	12	12	12	4910	35	4710			
		15	12	3	3	5220	35	5020			
		16	12	3	3	3910	35	3710			
		17	12	4	4	1710	35	1510			
		18	12	8	8	2680	35	2480			
		19	12	6	6	6230	20	6230			
		22	12	3	3	2180	35	1980			
		23	10	16	16	1350	38	200	1000	200	
		24	12	1	1	3190	35	2990			
S1	1	5	10	20	20	2700	74	1090	140		
		7	12	14	14	4510	38	160	4260	160	
		27	10	22	22	340	35	140			
S2	2	6	10	5	10	3050	74	1340	90		
		8	10	16	32	920	35	720			

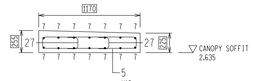
BAR WEIGHT SUMMARY		
Grade450	Y 10	Y 12
TOTAL LENGTH (m)	446.66	427.23
TOTAL WEIGHT (kg)	275.59	379.38



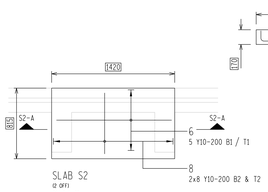
FOUNDATION REBAR LAYOUT
SCALE 1:50



SLAB S1
(1 OFF)
SCALE 1:25



SECTION S1-A
SCALE 1:25



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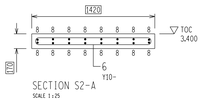

SECTION S2-A
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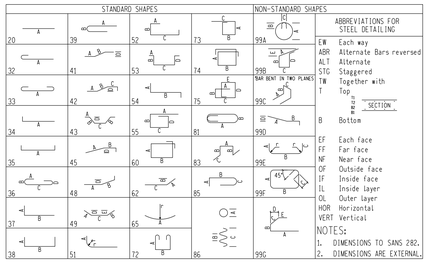

SHEET 06	FOUNDATION & STEEL REINFORCING LAYOUT
SHEET 05	SECTIONS & DETAILS
SHEET 04	DOOR SCHEDULE & DETAILS
SHEET 03	POWER, LIGHTING & BASIC SIGNAGE LAYOUT
SHEET 02	ELEVATIONS & ROOF PLAN
SHEET 01	GROUND PLAN & DETAILS
DRG NO.	REFERENCE DRAWINGS:

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
0	FIRST ISSUE					IPP39344514-00003

Eskom Distribution

YSTERVARK SUBSTATION

RELAY HOUSE BUILDING
FOUNDATION & STEEL REINFORCING LAYOUT

AUTH: / DATE: / /
CHKD: / DATE: / /
DRAWN: K. STEYNBERG DATE: 16/07/2019

SET	SHEET	REVISION
D-WC-8118	18	06	0

1924701-2-300-A-DE-0006-01-AE

SCALE 1:AS SHOWN

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CAPE DROVE DRIVE
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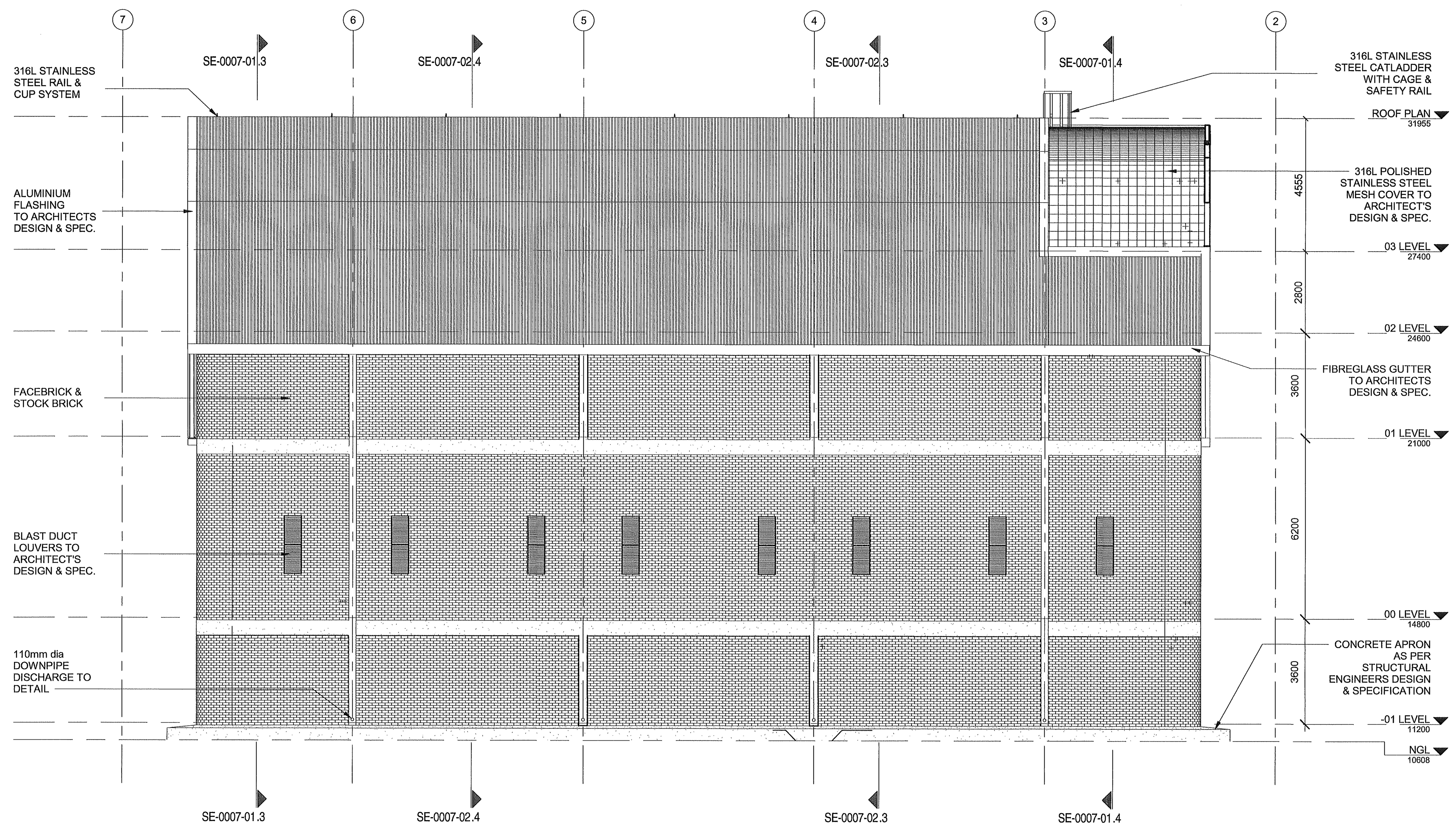
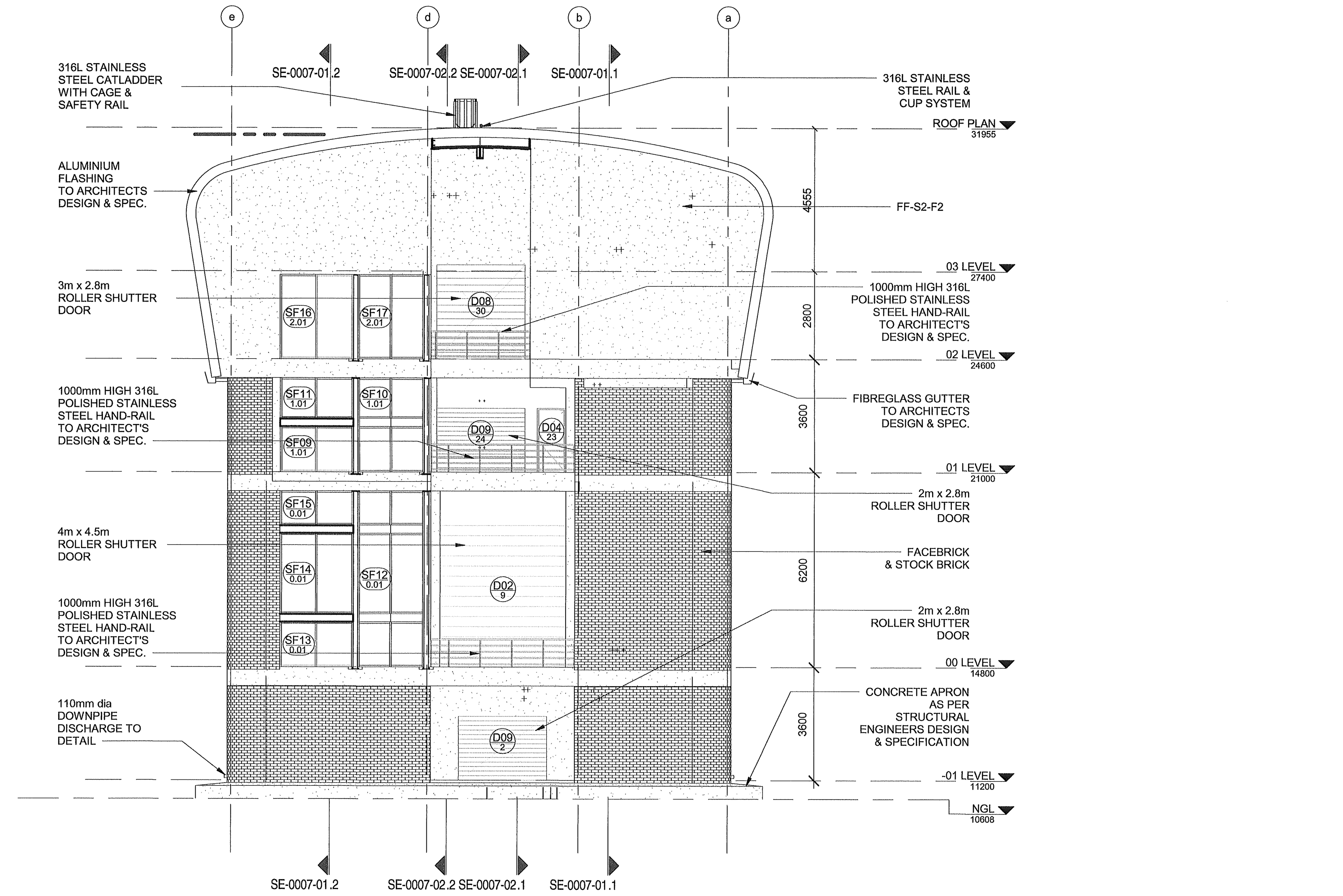
FAX: +27 (0)21 900 7501
REG. No.: 1969/004629/07



1 | WEST ELEVATION
DE-0035-01 | SCALE 1 : 100



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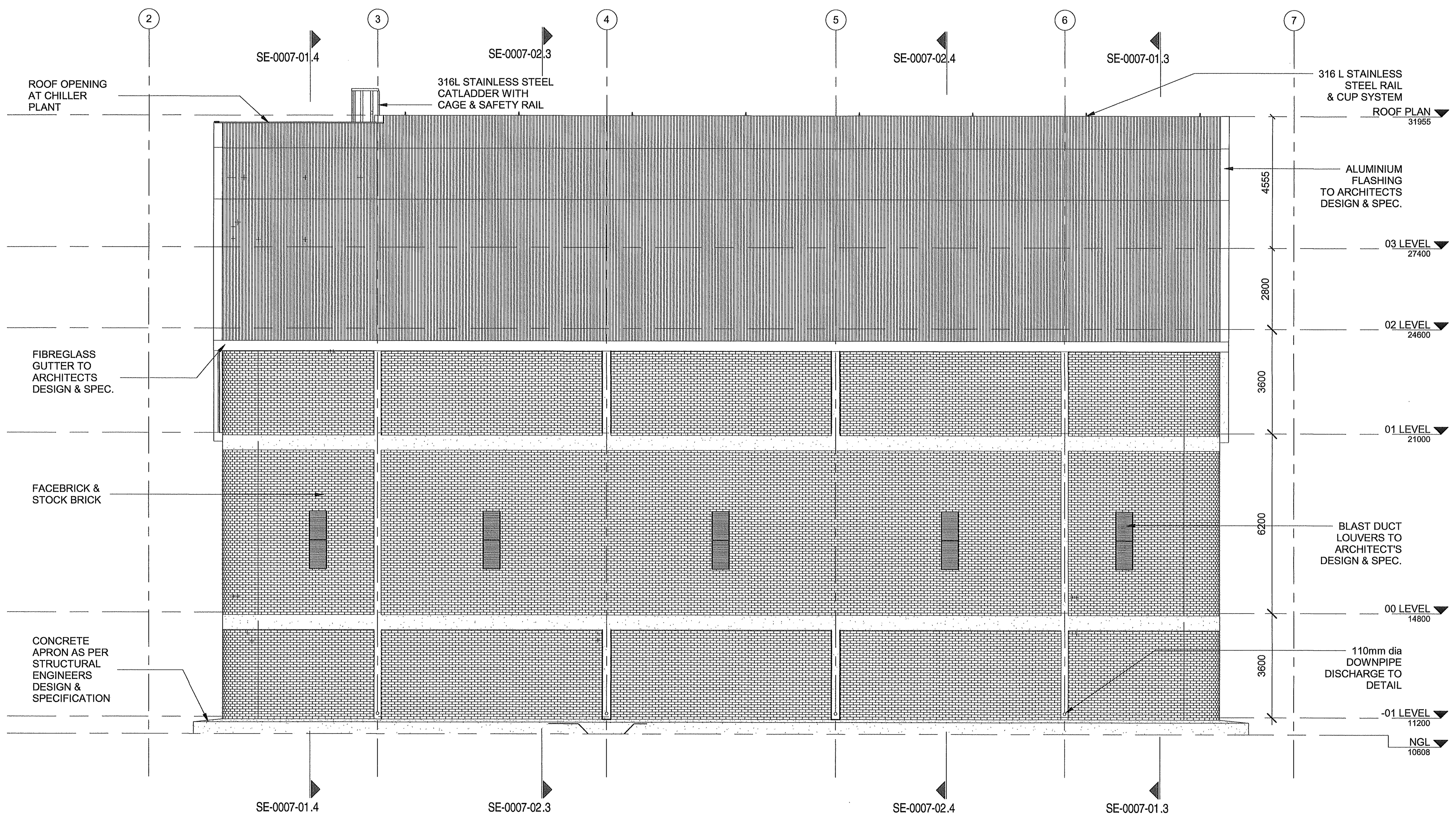
DE-0035-01 | SCALE 1 : 100



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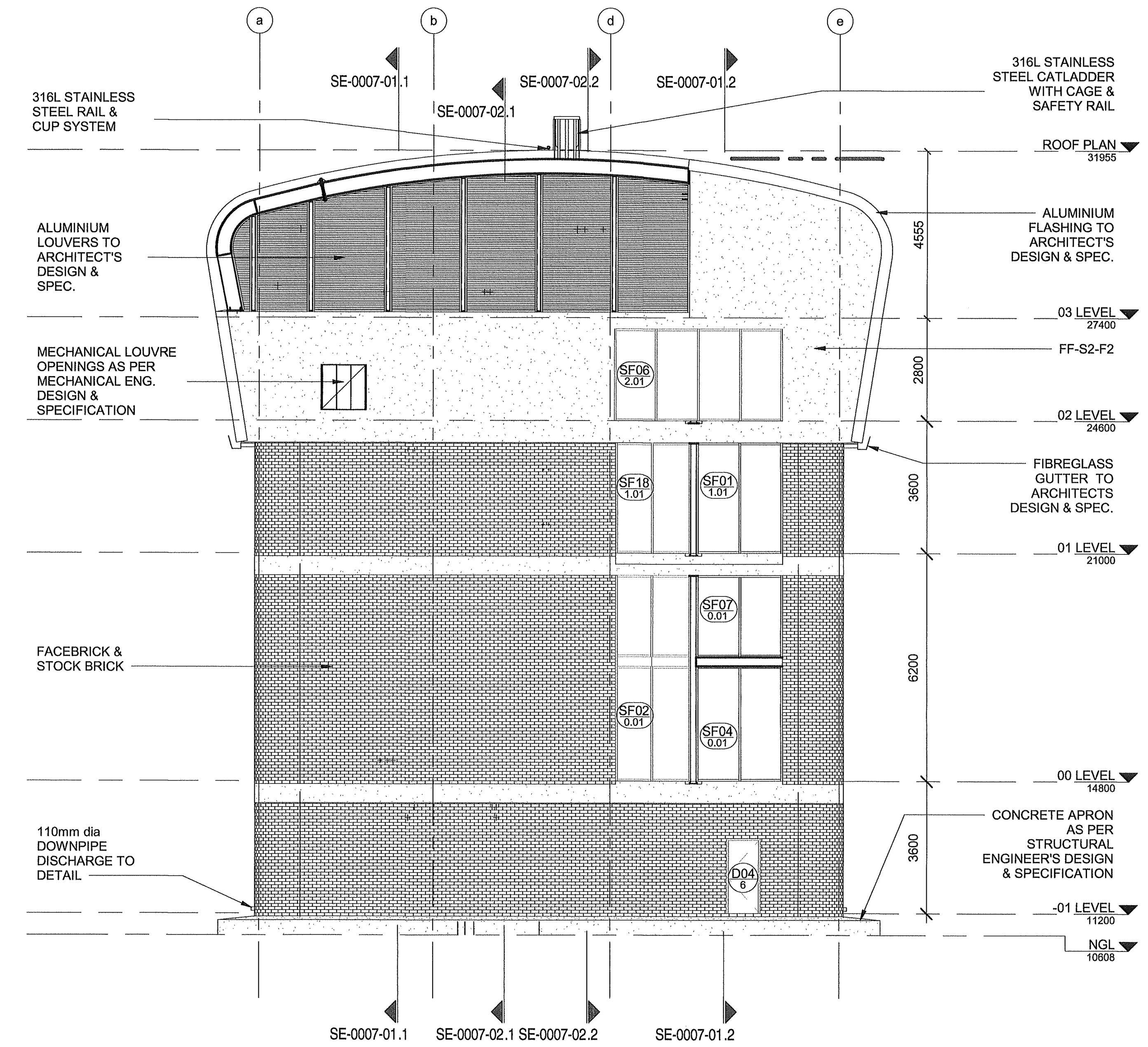
DE-0035-01 | SCALE 1 : 100



4 | SOUTH ELEVATION
DE-0035-01 | SCALE 1 : 100

MASTER
02 FEB 2017
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DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0036-02	SECTION DETAILS
1924701-2-510-A-DE-0036-01	SECTION DETAILS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT

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TITLE	NAME	SIGN	DATE

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TITLE	NAME	SIGN	DATE
DRAWN	KK	K.K.	31 01 17
CHECKED	DT	DT.	31 01 17
DESIGNED	BE	BE	31 01 17
CHECKED	DT	[signature]	31 01 17

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE	[signature]	31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
ELEVATIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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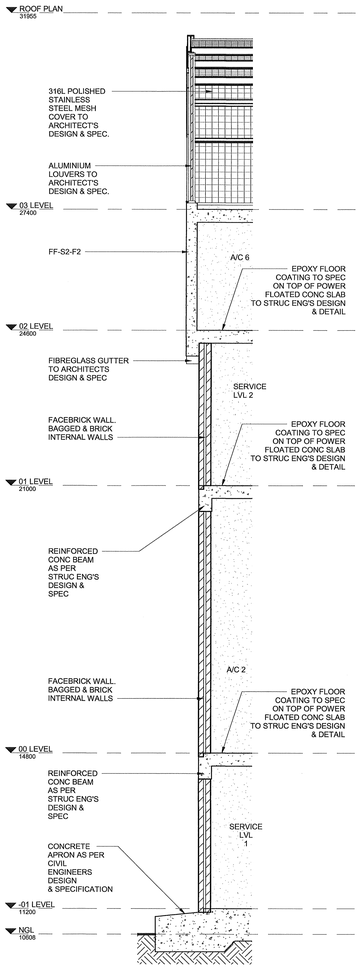
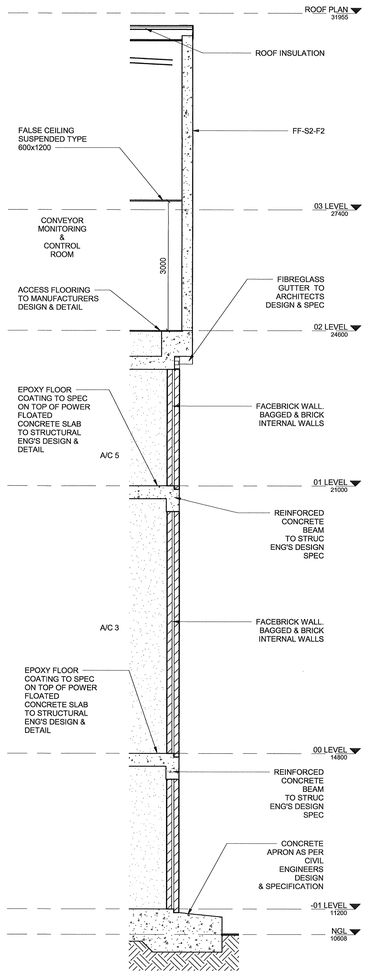


1 | Section 1 - Callout 1
DE-0036-01 | SCALE 1 : 50



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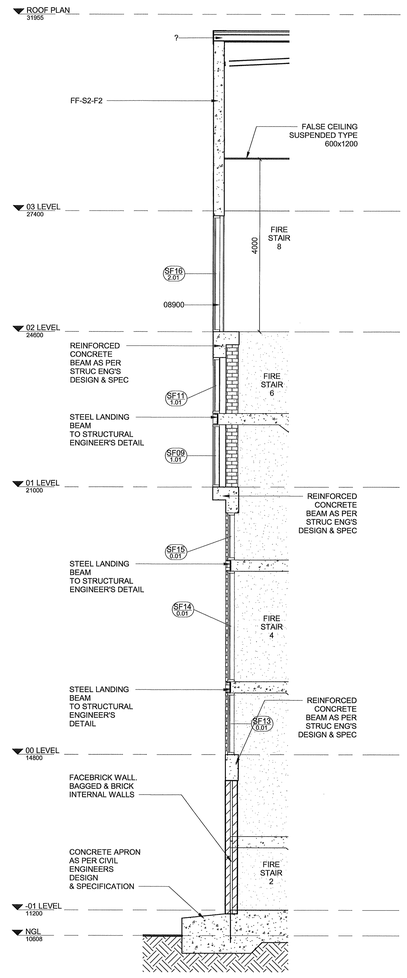
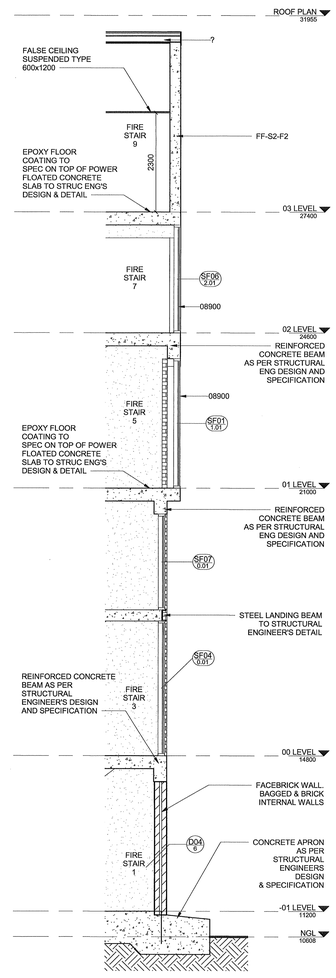


3 | Section 6 - Callout 1
DE-0036-01 | SCALE 1 : 50



4 | Section 6 - Callout 2
DE-0036-01 | SCALE 1 : 50

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1924701-2-510-A-DE-0036-02	SECTION DETAILS
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NOTES

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DESIGNED	BE	B.E	31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH		
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SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

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TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
SECTION DETAILS

PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.			SHEET	REV	ID
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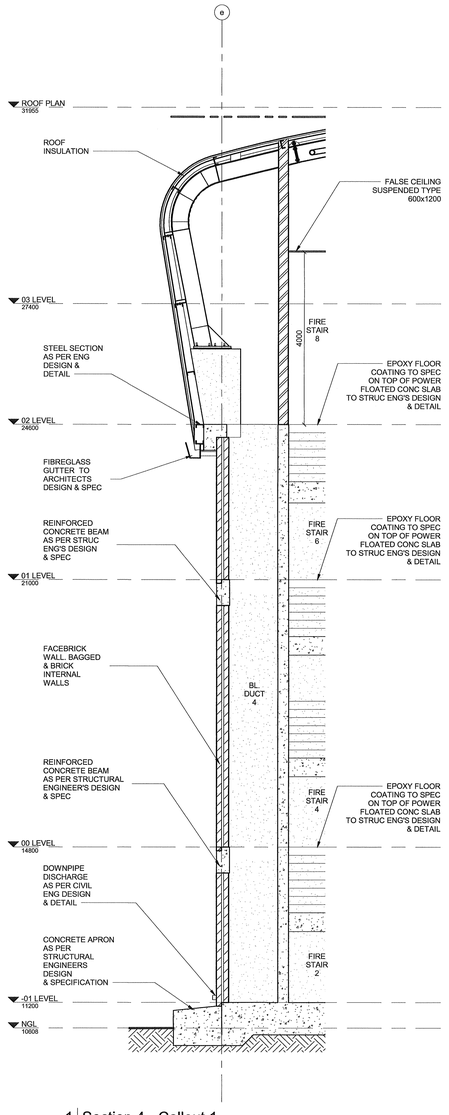

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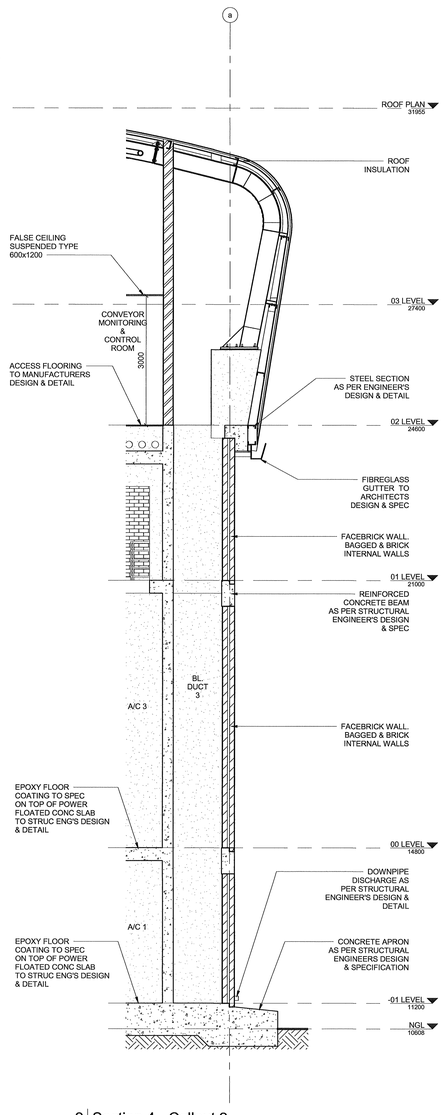
DE-0036-02 | SCALE 1 : 50



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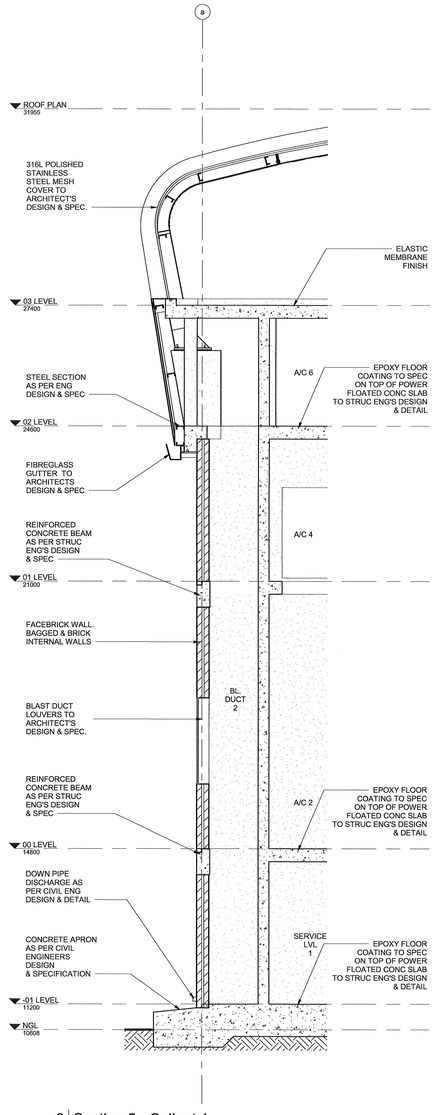
DE-0036-02 | SCALE 1 : 50



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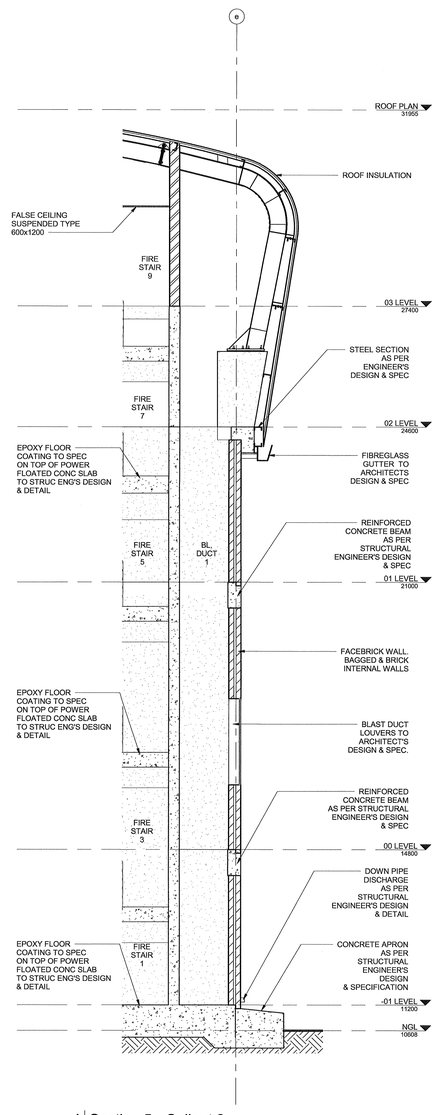
DE-0036-02 | SCALE 1 : 50



4 | Section 5 - Callout 2
DE-0036-02 | SCALE 1 : 50

1924701-2-510-A-DE-0036-01	SECTION DETAILS
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT
DRAWING NO.	**REFERENCE**

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DESIGNED	BE		31 01 17
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NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
SECTION DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	DE	0036	02	00	AE

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02 FEB 2017
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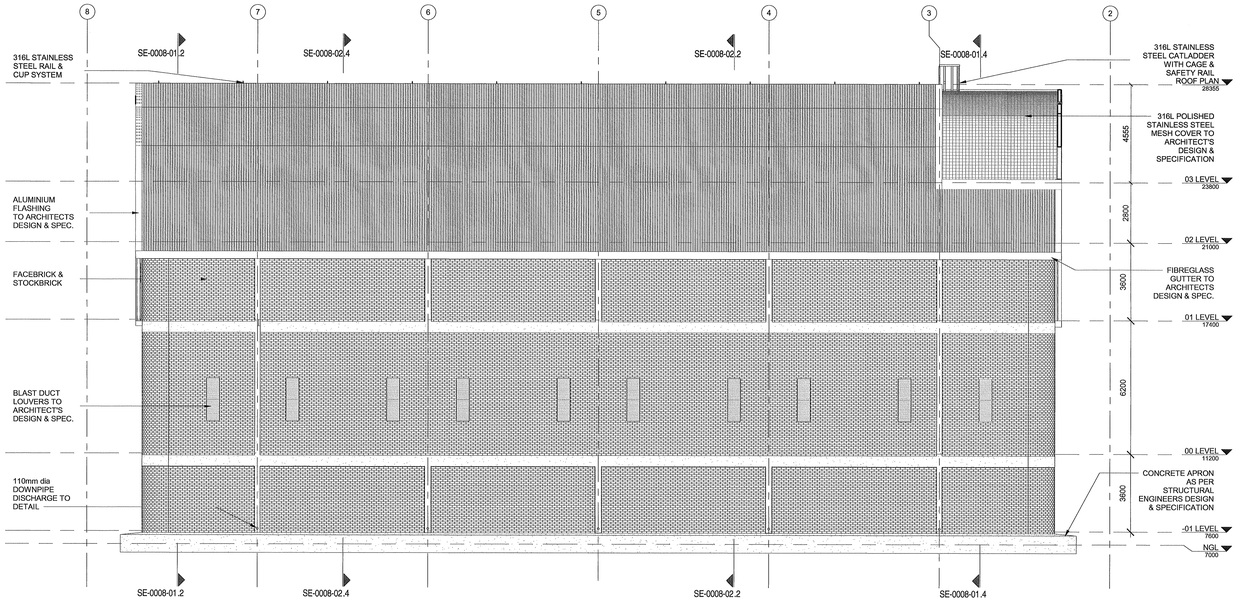

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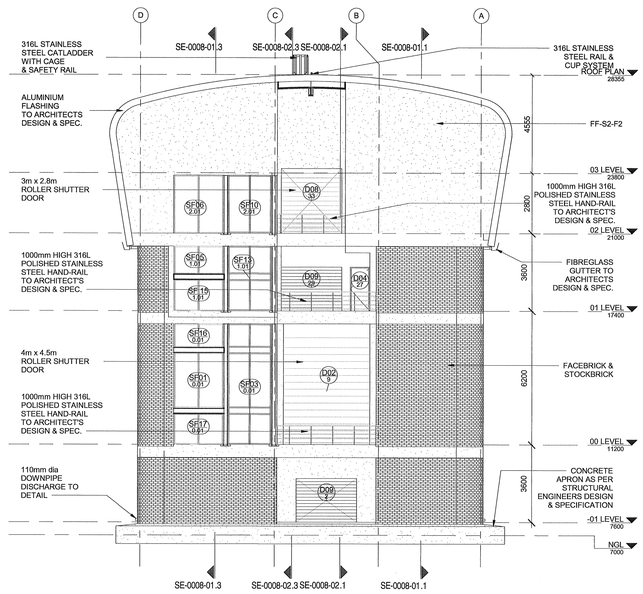

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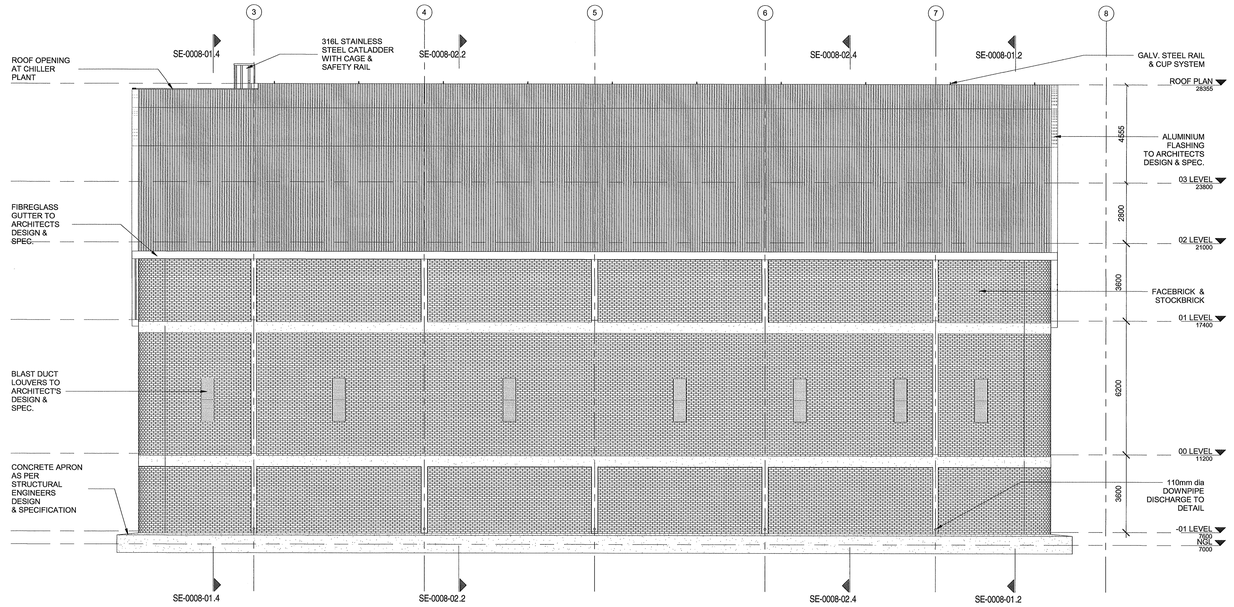
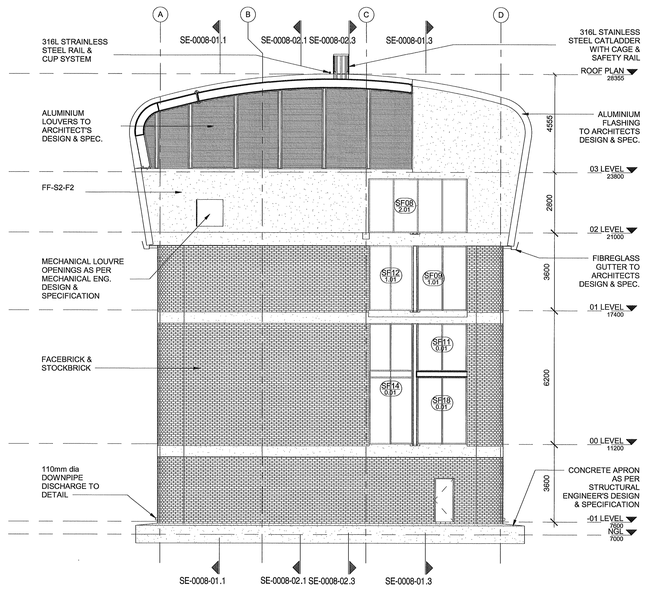


EAST ELEVATION
SCALE 1 : 100



SOUTH ELEVATION
SCALE 1 : 100

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02 FEB 2017
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1924701-2-510-A-DE-0038-02	SECTION DETAILS
1924701-2-510-A-DE-0038-01	SECTION DETAILS
1924701-2-510-A-DE-0008-02	SECTIONS
1924701-2-510-A-DE-0008-01	SECTIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT
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TITLE	NAME	SIGN	DATE

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TITLE	NAME	SIGN	DATE
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CHECKED	RS		31 01 17
DESIGNED	RE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
ELEVATIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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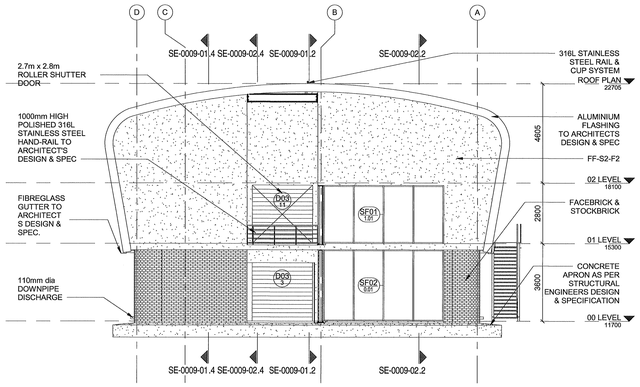
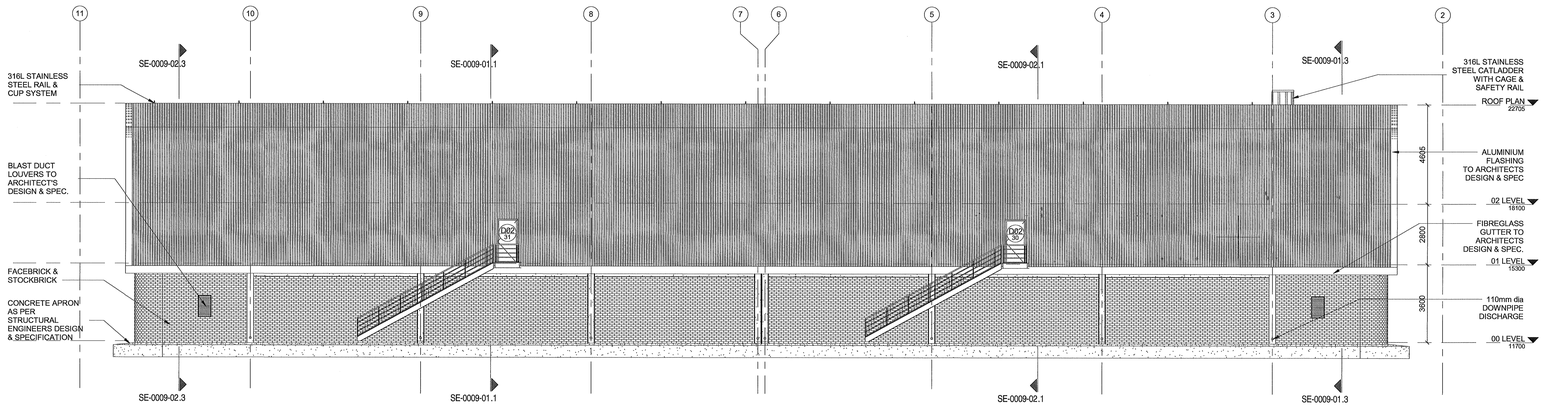
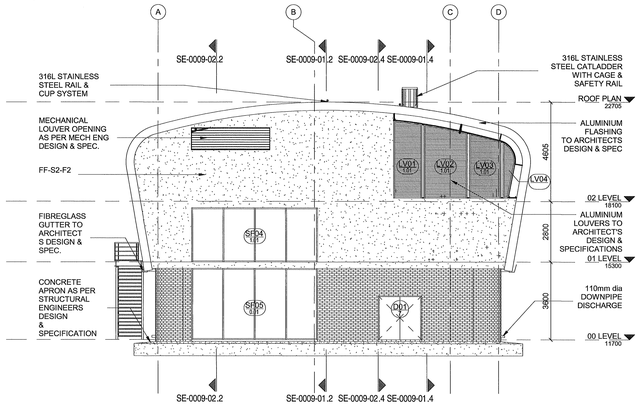


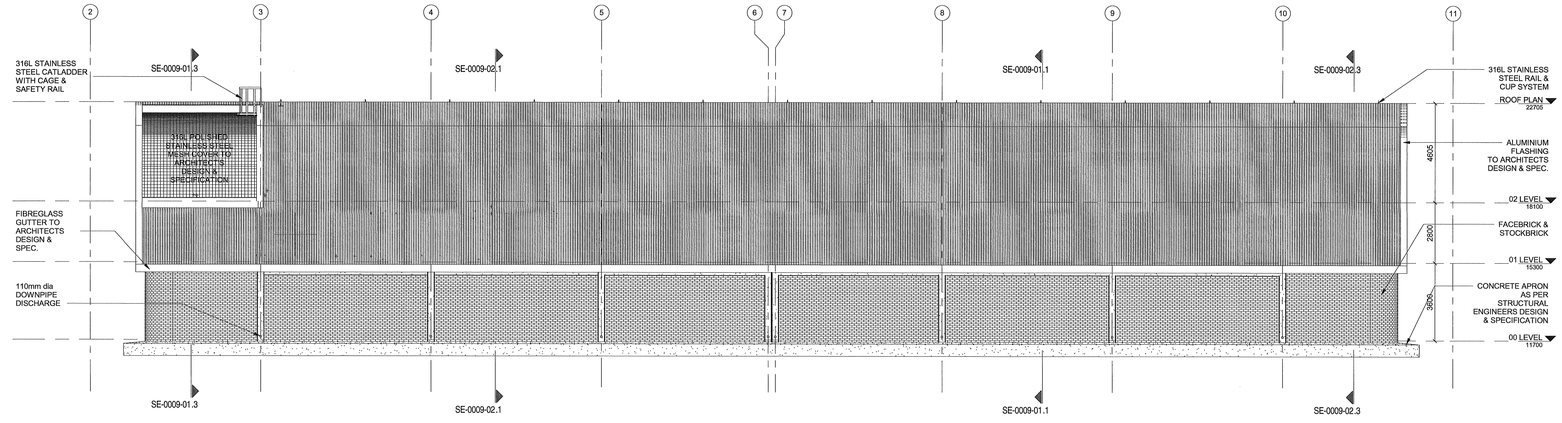
1 NORTH ELEVATION
DE-0039-01 | SCALE 1 : 100



2 WEST ELEVATION
DE-0039-01 | SCALE 1 : 100



3 SOUTH ELEVATION
DE-0039-01 | SCALE 1 : 100



4 EAST ELEVATION
DE-0039-01 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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AECOM
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TYGER WATERFRONT
CARL CRONJE DRIVE
TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHK	APPD	DATE
00	ISSUE FOR CONSTRUCTION	KK	B.E	D.T	31/01/2017

REVISIONS

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK		31 01 17
CHECKED	DT		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH	
NAME	DEREK THOMAS
SIGNATURE	
DATE	31 01 17
REG. NUMBER	7343
SCALE:	1:100

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) - REG. NO. 1990/000906/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 LWS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: NEW MAIN INTAKE SUBSTATION ELEVATIONS

PROJECT NUMBER							OD	FBS		DIS	TYPE	DRAWING NO.			SHEET		REV	ID
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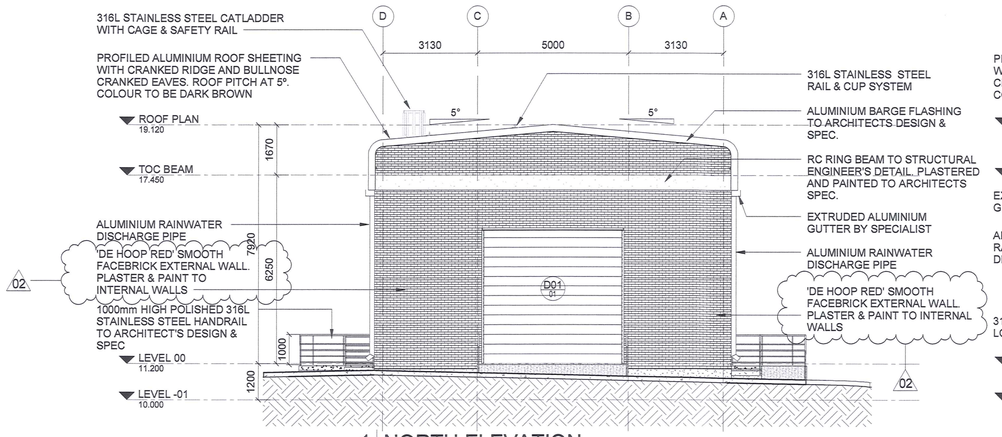
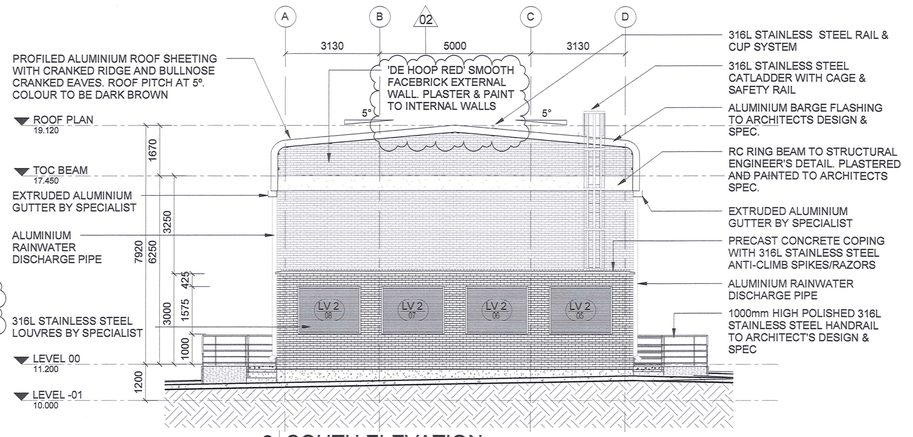
SCALE: 1:100 | A0



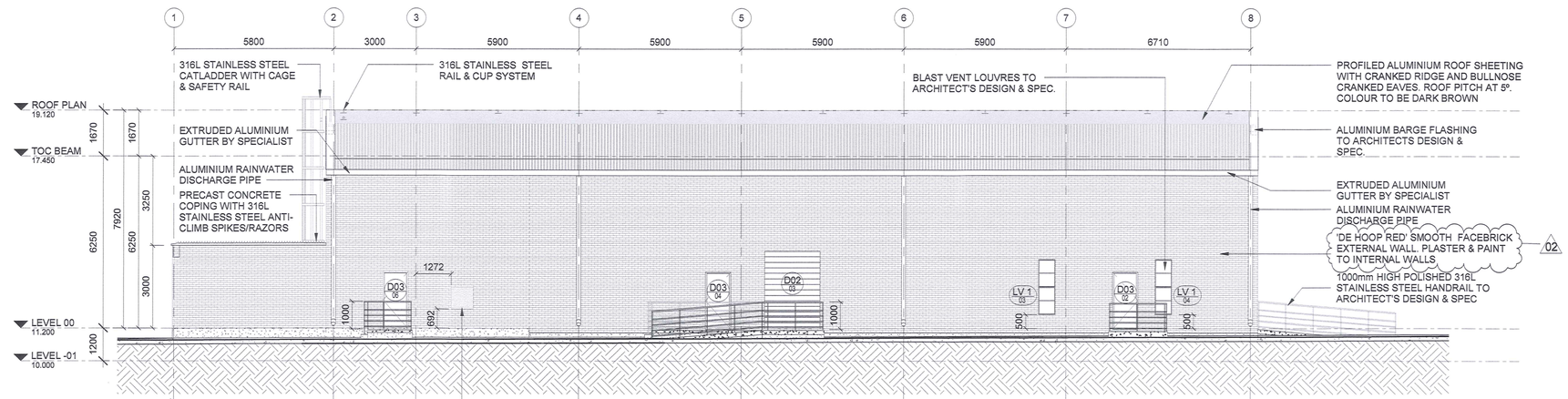
1 NORTH ELEVATION

DE-0061-01 | SCALE 1 : 100



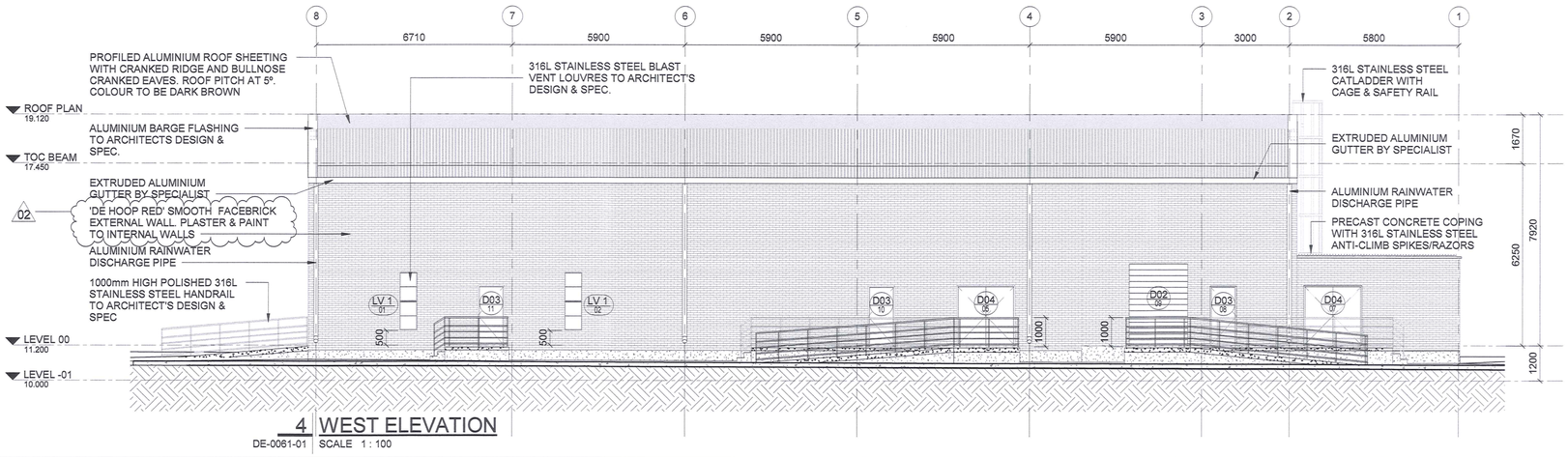
2 SOUTH ELEVATION

DE-0061-01 | SCALE 1 : 100



3 EAST ELEVATION

DE-0061-01 | SCALE 1 : 100



4 WEST ELEVATION

DE-0061-01 | SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-SC-0041-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0035-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0034-01	DOOR SCHEDULE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-GA-0016-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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FAX: +27 (0)21 950 7502
REG. No. 1968/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUED FOR CONSTRUCTION :	RU	JPK	JPK	2018/08/22
	HANDRAIL HEIGHTS ADDED				2018/08/22
00	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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CONTRACTOR/CONSULTANT	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK
SIGNATURE	
DATE	06 05 19
REG. NUMBER	22743231
SCALE:	1:100 A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M ELEVATIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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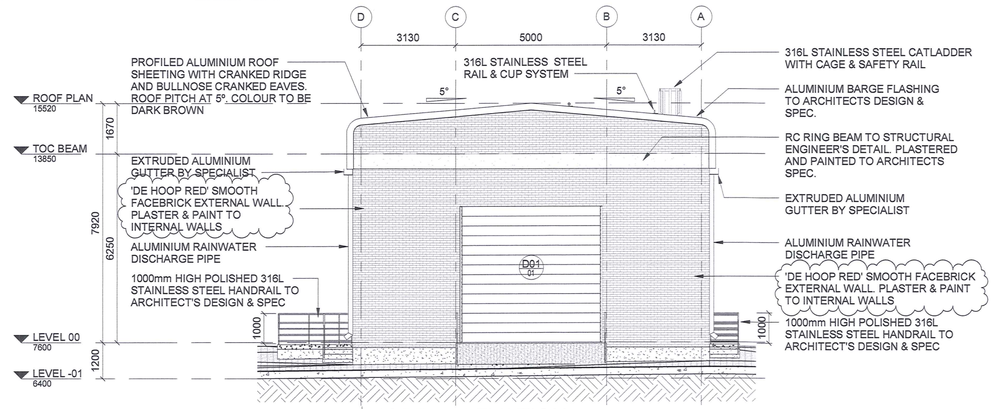
MASTER
07 MAY 2019
AECOM TRANSNET



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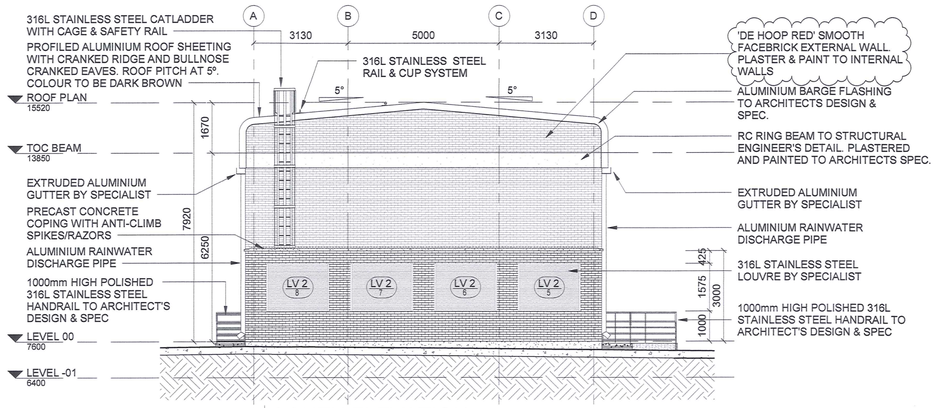
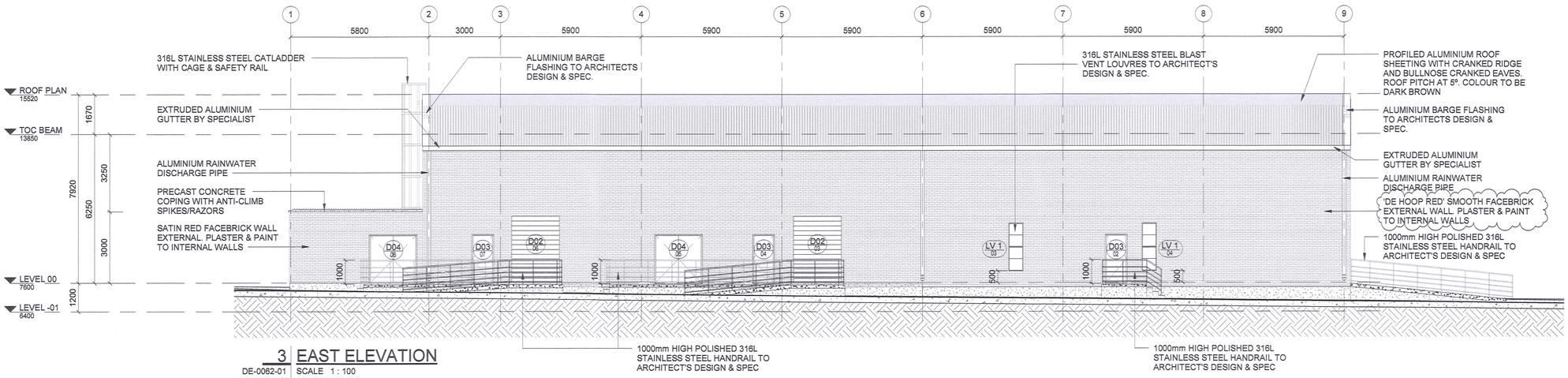
DE-0062-01 SCALE 1 : 100



2 SOUTH ELEVATION

DE-0062-01 SCALE 1 : 100

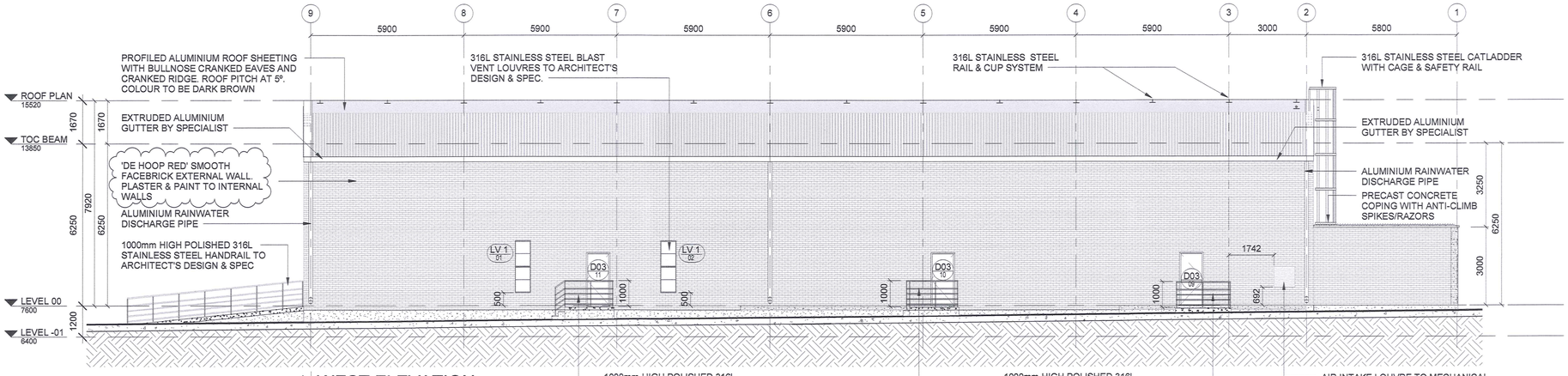


3 EAST ELEVATION

DE-0062-01 SCALE 1 : 100

1000mm HIGH POLISHED 316L STAINLESS STEEL HANDRAIL TO ARCHITECT'S DESIGN & SPEC

1000mm HIGH POLISHED 316L STAINLESS STEEL HANDRAIL TO ARCHITECT'S DESIGN & SPEC



4 WEST ELEVATION

DE-0062-01 SCALE 1 : 100

1000mm HIGH POLISHED 316L STAINLESS STEEL HANDRAIL TO ARCHITECT'S DESIGN & SPEC

1000mm HIGH POLISHED 316L STAINLESS STEEL HANDRAIL TO ARCHITECT'S DESIGN & SPEC

AIR INTAKE LOUVRE TO MECHANICAL ENGINEER'S SPECIFICATION

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SC-0040-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0037-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0036-01	DOOR SCHEDULE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-GA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUE FOR CONSTRUCTION :	RU	JPK	JPK	2018/05/22
	HANDRAIL HEIGHTS ADDED				2018/05/22
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:100	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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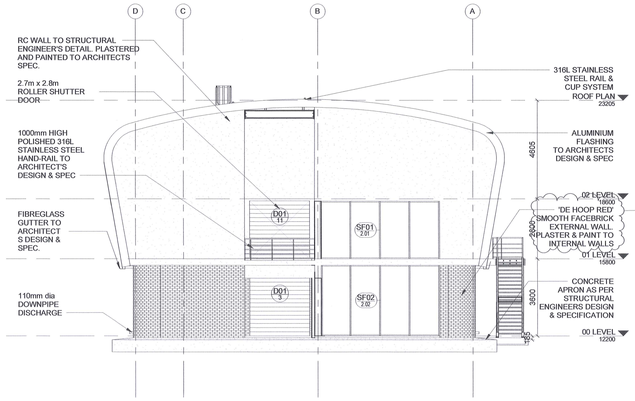
TEL: 021 940 1999
FAX: 086 677 2455

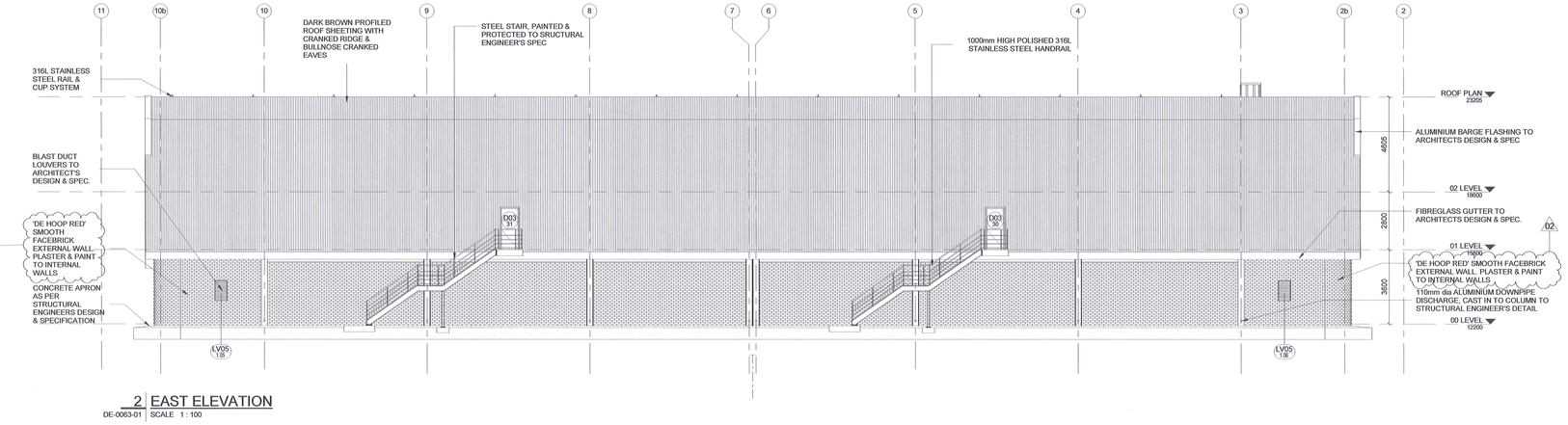
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N ELEVATIONS

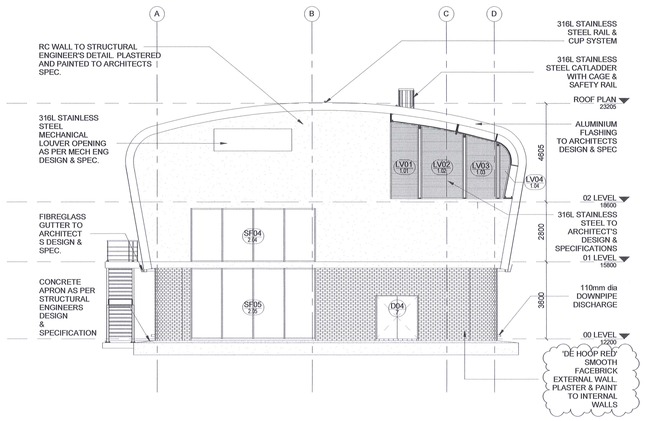
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	DE	0062	01	02	AE



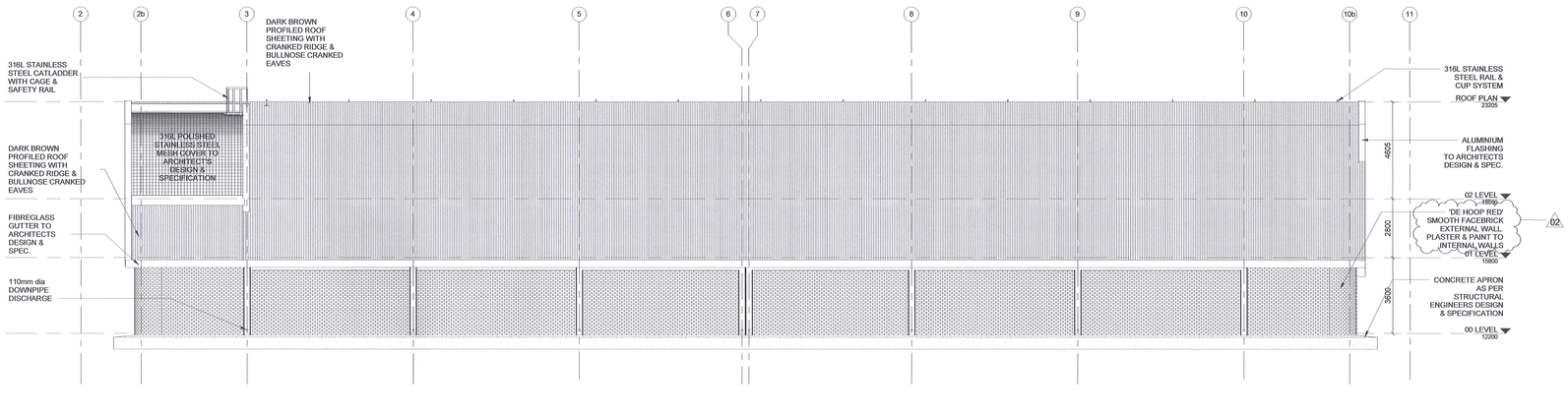
1 | SOUTH ELEVATION
DE-0063-01 | SCALE 1 : 100



2 | EAST ELEVATION
DE-0063-01 | SCALE 1 : 100



3 | NORTH ELEVATION
DE-0063-01 | SCALE 1 : 100



4 | WEST ELEVATION
DE-0063-01 | SCALE 1 : 100

MASTER
07 MAY 2019
AECOM
TRANSNET

1924701-2-510-A-SE-0012-02	SECTIONS
1924701-2-510-A-SE-0012-01	SECTIONS
1924701-2-510-A-GA-0018-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0018-01	GENERAL ARRANGEMENT

DRAWING NO. | REFERENCE

REFERENCE DRAWINGS

NOTES

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REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/05/28
	STEEL COLUMN ON GRIDLINE B/10b REPLACED WITH RC COLUMN				2018/05/28
	EXTERNAL STEEL STAIRCASES AMENDED				2018/05/28
	DIMENSIONS AND NOTES ADDED / AMENDED				2018/05/28
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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TITLE	NAME	SIGN	DATE
DRAWN	KK		06 05 19
CHECKED	RU		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOTZE	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:100	A0

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS). REG. NO. 1990/000906/06
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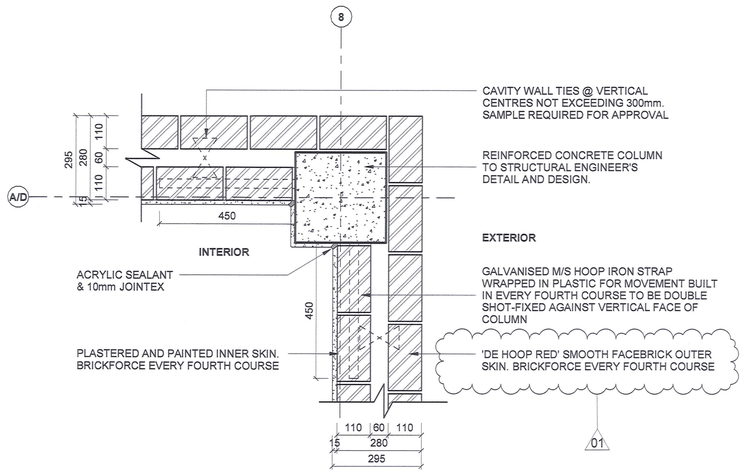
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

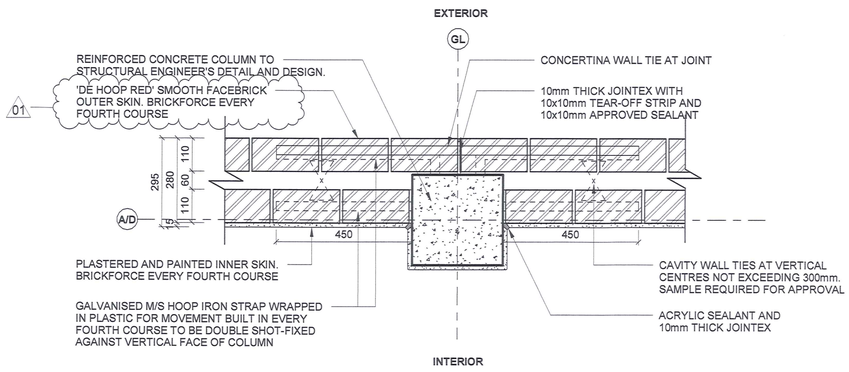
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
ELEVATIONS

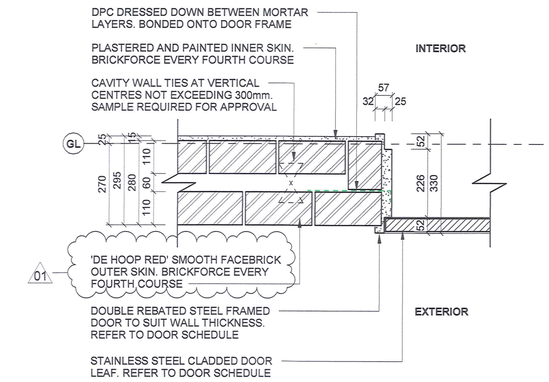
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 6 3	0 1	02	AE



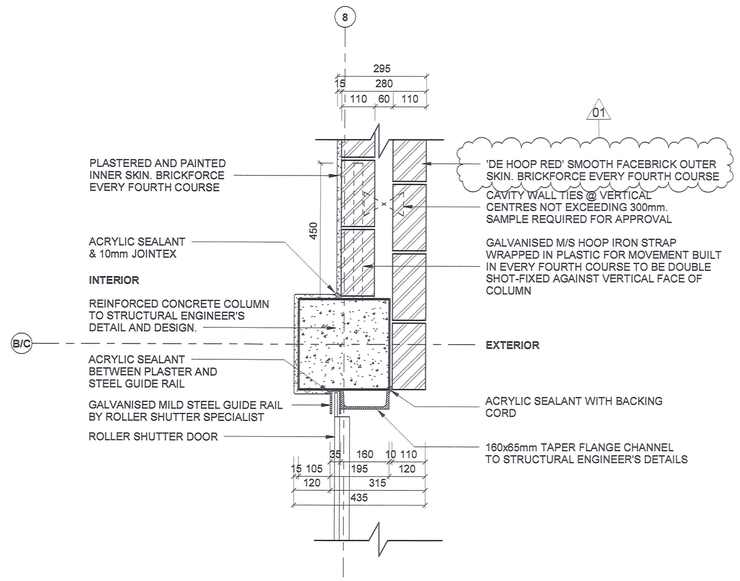
1 DETAIL 1 - COLUMN / 280mm BRICK WALL CORNER
DE-0064-01 SCALE 1 : 10



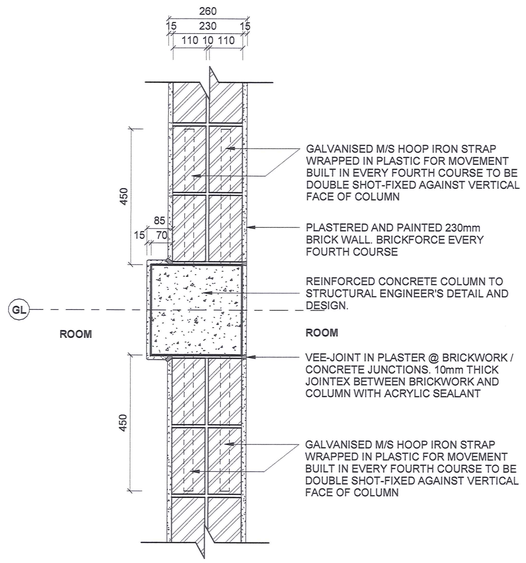
3 DETAIL 3 - COLUMN / 280mm BRICK WALL
DE-0064-01 SCALE 1 : 10



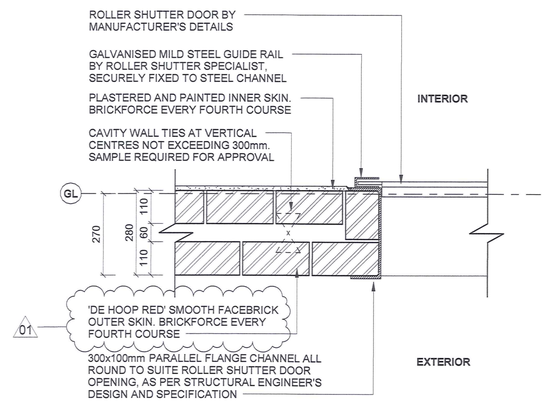
5 DETAIL 5 - TYPICAL DOOR JAMB DETAIL
DE-0064-01 SCALE 1 : 10



2 DETAIL 2 - COLUMN / 280mm BRICK WALL ENTRANCE JAMB
DE-0064-01 SCALE 1 : 10



4 DETAIL 4 - COLUMN / 230mm BRICK WALL JUNCTION
DE-0064-01 SCALE 1 : 10



6 DETAIL 6 - TYPICAL ROLLER SHUTTER DOOR JAMB
DE-0064-01 SCALE 1 : 10

MASTER
07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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WATERSIDE PLACE, SOUTH GATE
TYGER WATERFRONT
CARL CRONJE DRIVE

TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
00	FIRST ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/06/22

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CONTRACTOR/CONSULTANT	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK	K.K.	06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK
SIGNATURE	06 05 19
REG. NUMBER	24743231
SCALE:	1:10

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) ; REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M PLAN DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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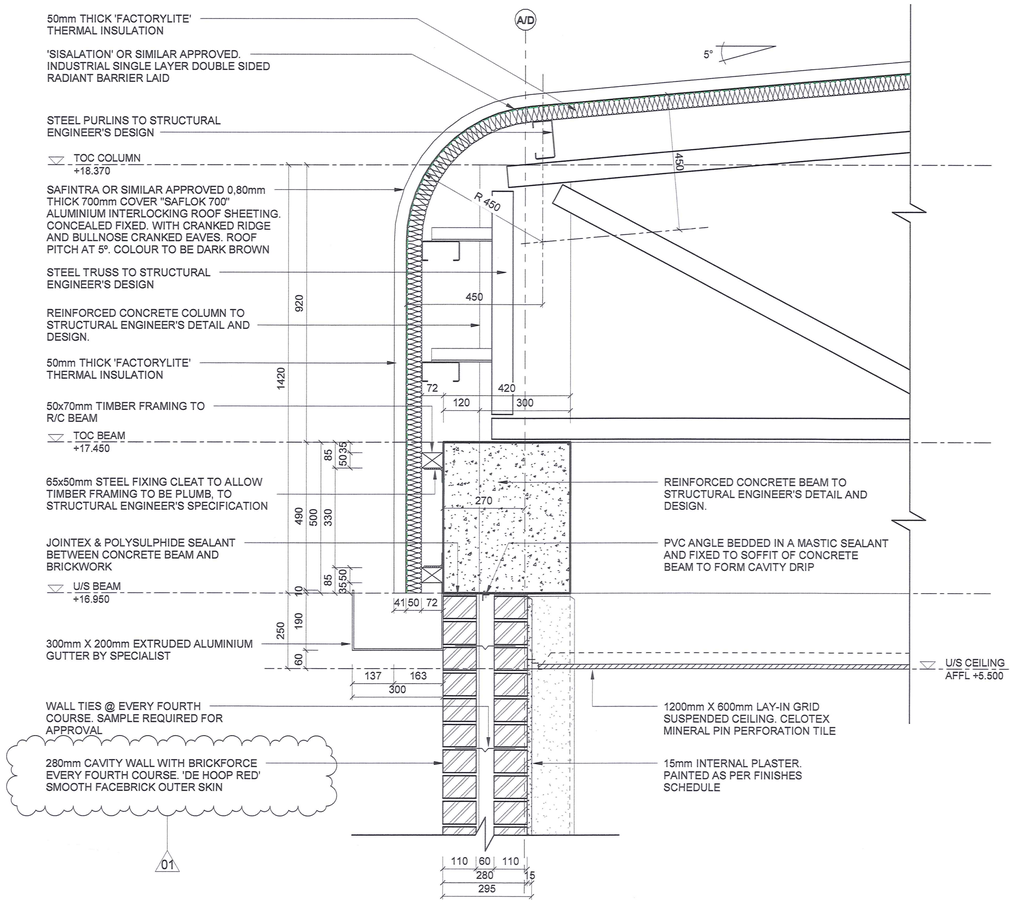
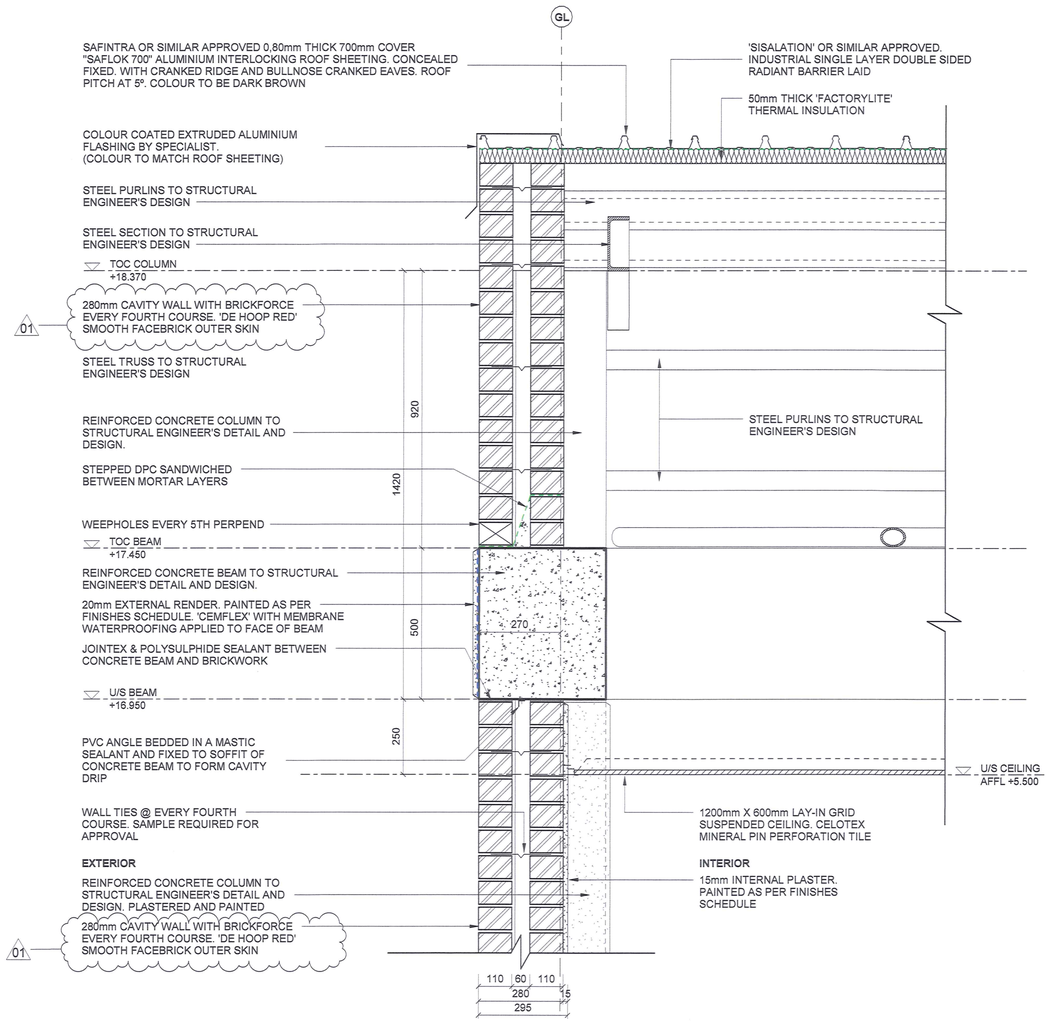
A1



7 DETAIL 7 - CRANKED EAVE

DE-0065-01 SCALE 1 : 10



8 DETAIL 8 - BACK GABLE

DE-0065-01 SCALE 1 : 10

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-GA-0016-02	GENERAL ARRAGEMENT (ROOF PLAN)

REFERENCE DRAWINGS

NOTES

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REG. No. 1968/006628/07

NO	DESCRIPTION	BY	CHK	APPD	DATE
01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
00	FIRST ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2019/05/22

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TITLE	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK
SIGNATURE	
DATE	06 05 19
REG. NUMBER	24743231
SCALE:	1:10

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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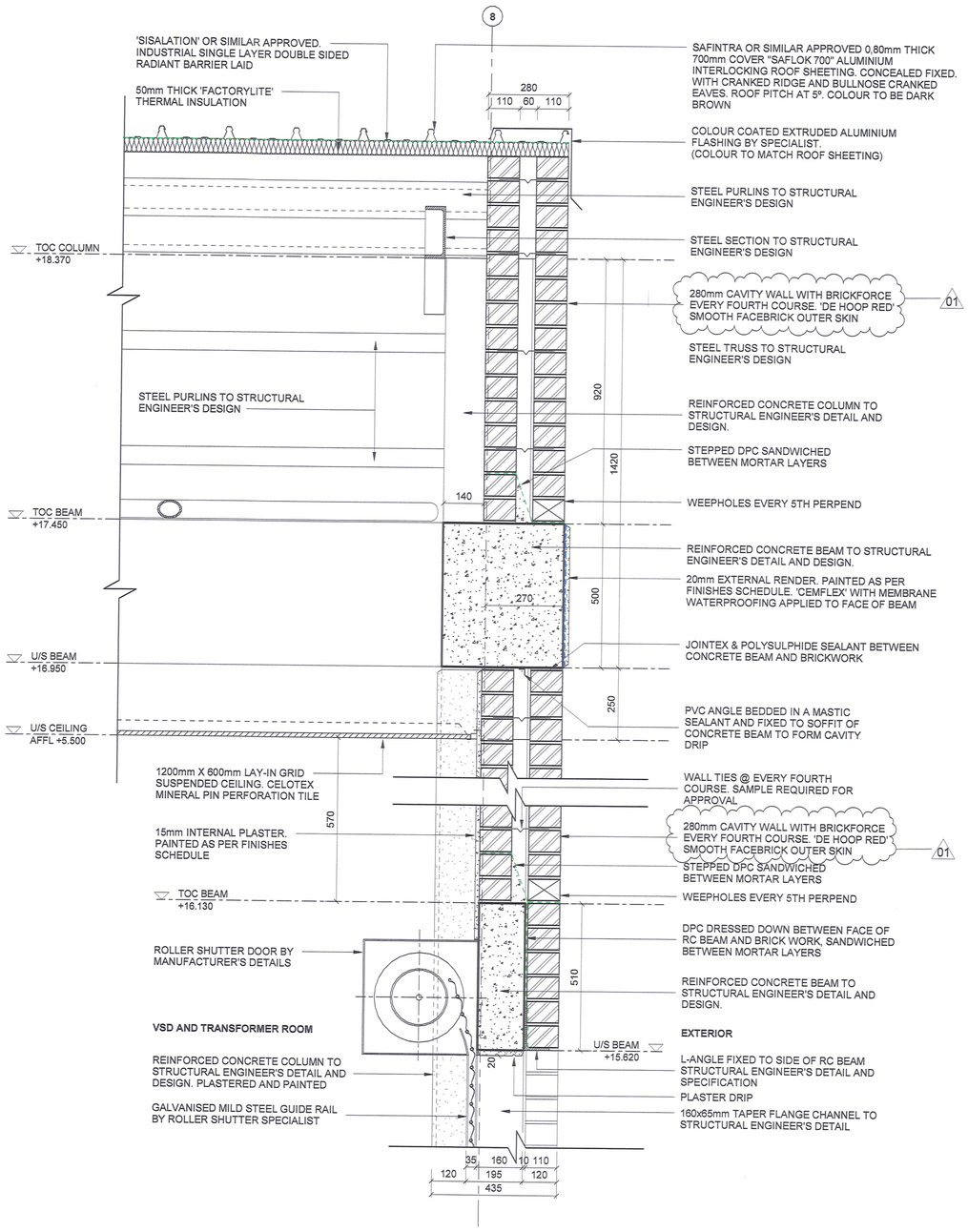
PORT OF SALDANHA

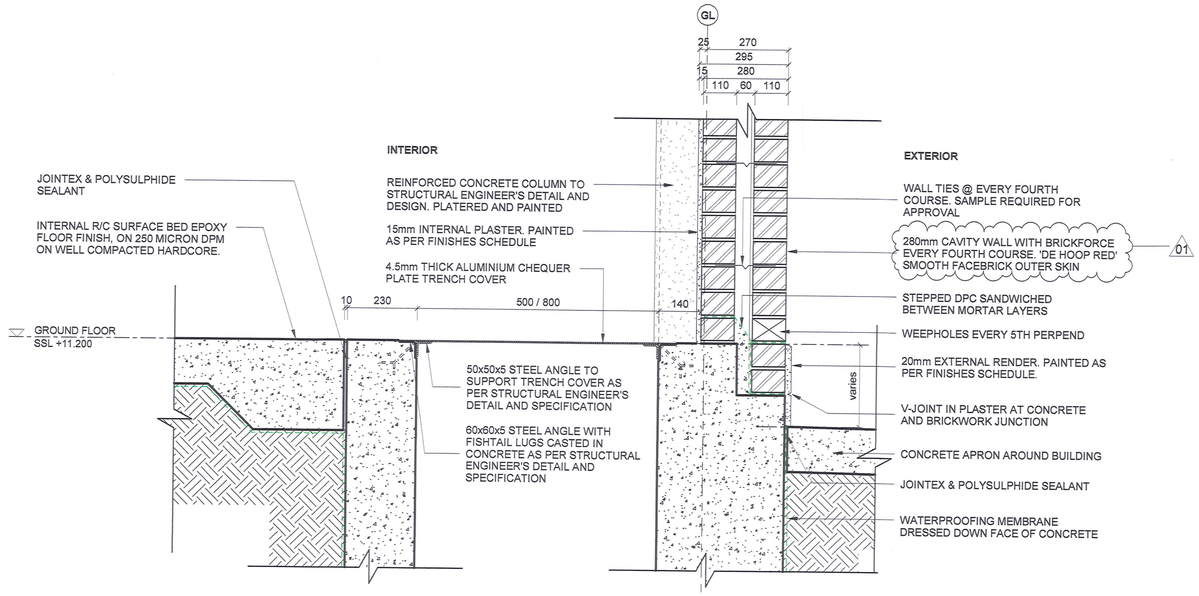
IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
ROOF DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
A1 1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 6 5	0 1	01	AE



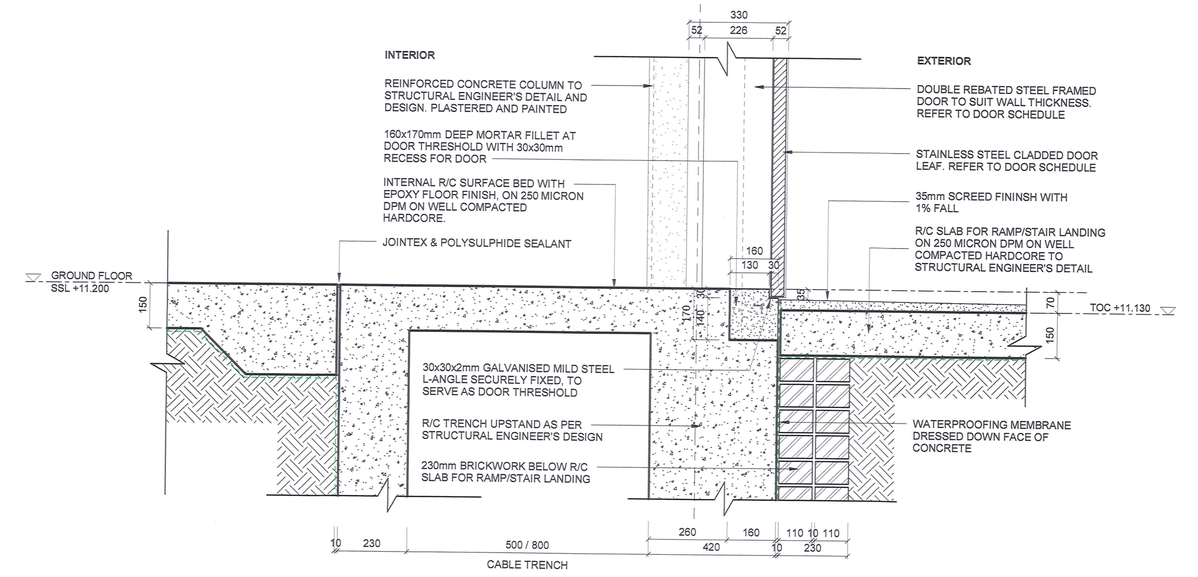
9 DETAIL 9 - VSD AND TRANSFORMER ROOM GABLE WALL

DE-0065-02 | SCALE 1 : 10



10 DETAIL 10 - TYPICAL PERIMETER TRENCH

DE-0065-02 | SCALE 1 : 10



11 DETAIL 11 - TYPICAL DOOR THRESHOLD

DE-0065-02 | SCALE 1 : 10

MASTER
07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-GA-0016-02	GENERAL ARRANGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0016-01	GENERAL ARRANGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
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OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	14743231	
SCALE:	1:10	A1

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE: SUBSTATION M
ROOF AND TRENCH DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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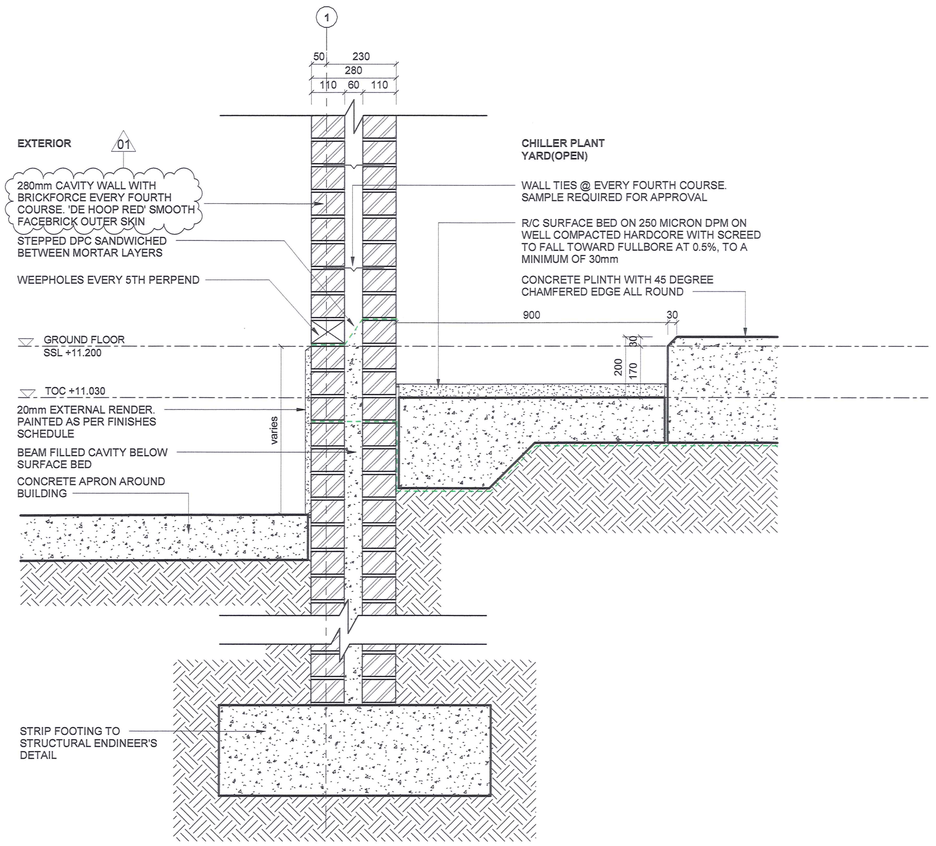
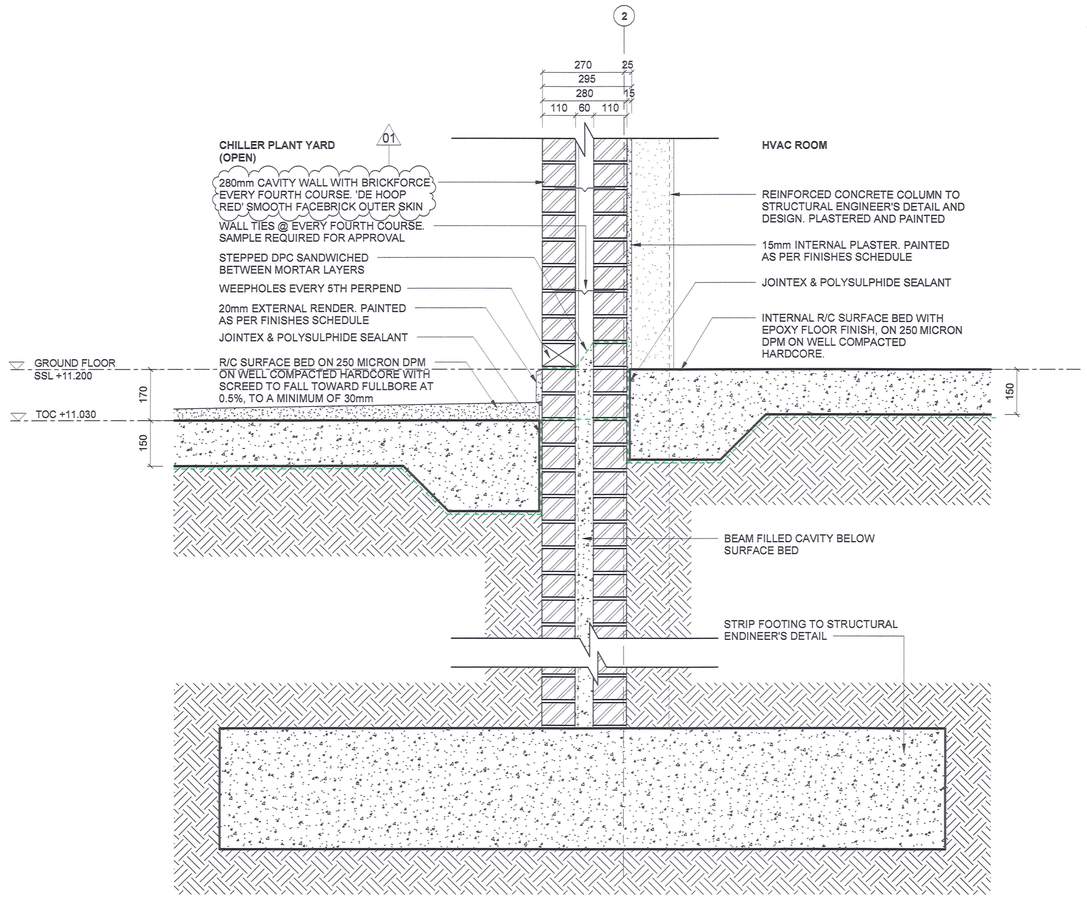


12 DETAIL 12 - CHILLER PLANT YARD SCREEN WALL

DE-0066-01 | SCALE 1 : 10



13 DETAIL 13 - HVAC/CHILLER PLANT

DE-0066-01 | SCALE 1 : 10

MASTER
07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:10	A1

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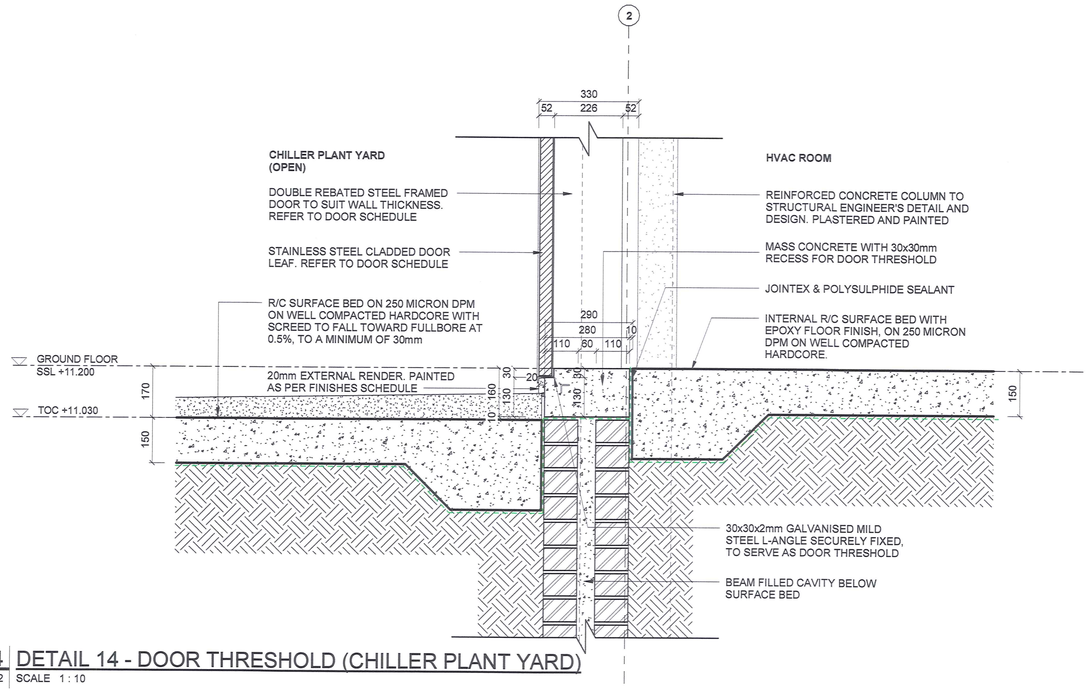
PORT OF SALDANHA

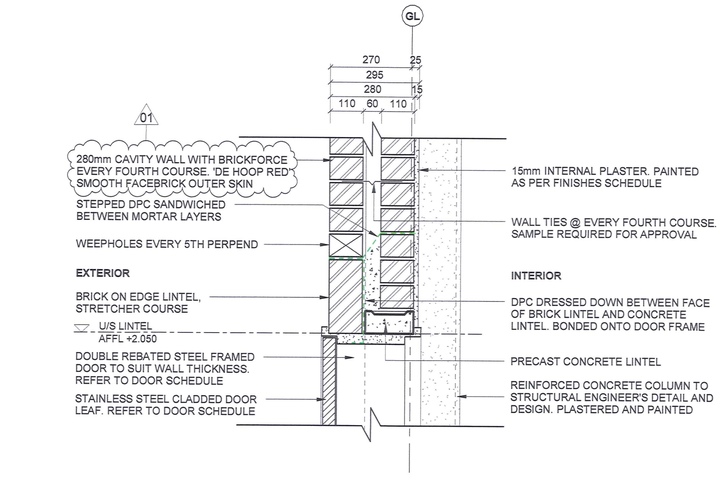
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M GENERAL DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 6 6	0 1	01	AE



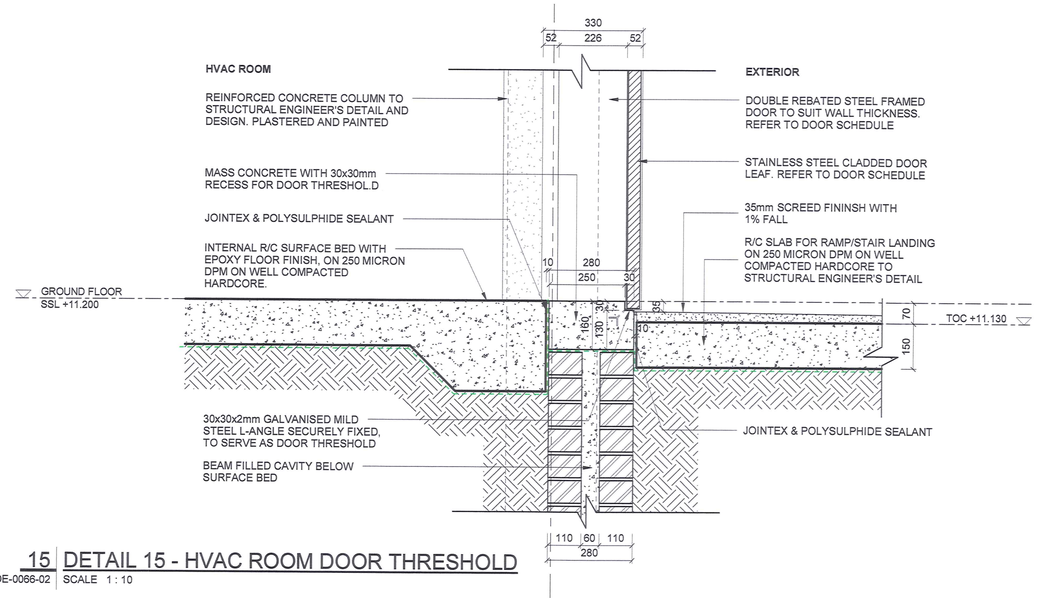
14 DETAIL 14 - DOOR THRESHOLD (CHILLER PLANT YARD)

DE-0066-02 | SCALE 1 : 10



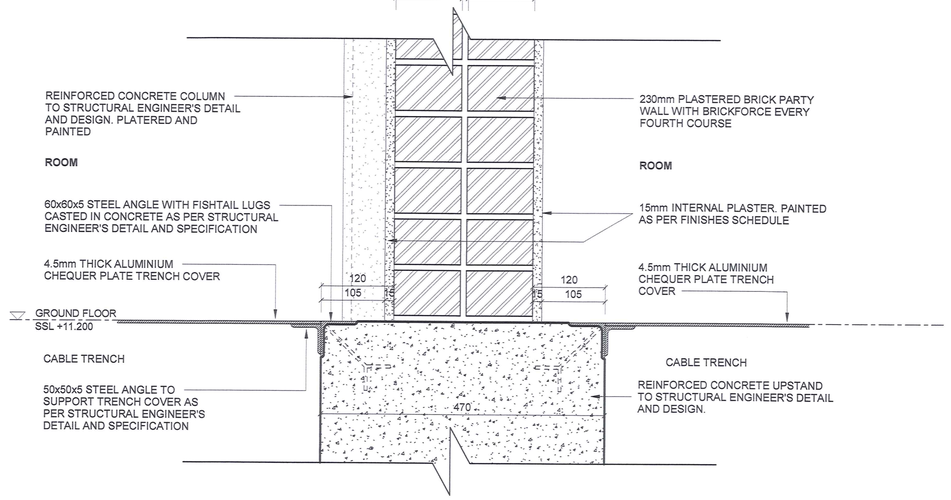
16 DETAIL 16 - TYPICAL DOOR HEAD/LINTEL DETAIL

DE-0066-02 | SCALE 1 : 10



15 DETAIL 15 - HVAC ROOM DOOR THRESHOLD

DE-0066-02 | SCALE 1 : 10



17 DETAIL 17 - TYPICAL ROOM PARTY WALL

DE-0066-02 | SCALE 1 : 5

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

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NO	DESCRIPTION	BY	CHK	APPD	DATE
01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
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DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK
SIGNATURE	06 05 19
REG. NUMBER	24743231
SCALE:	AS SHOWN A1

Transnet Capital Projects
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8001
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M GENERAL DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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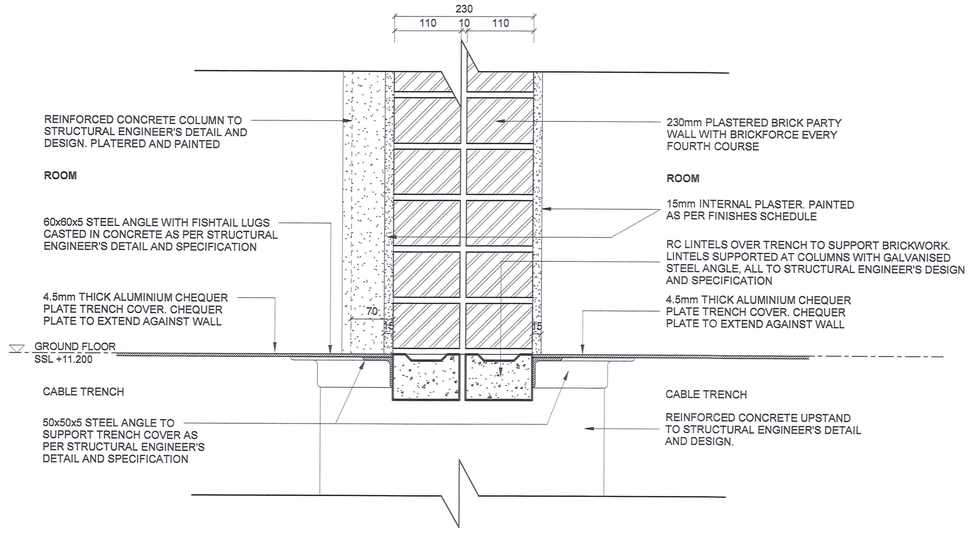
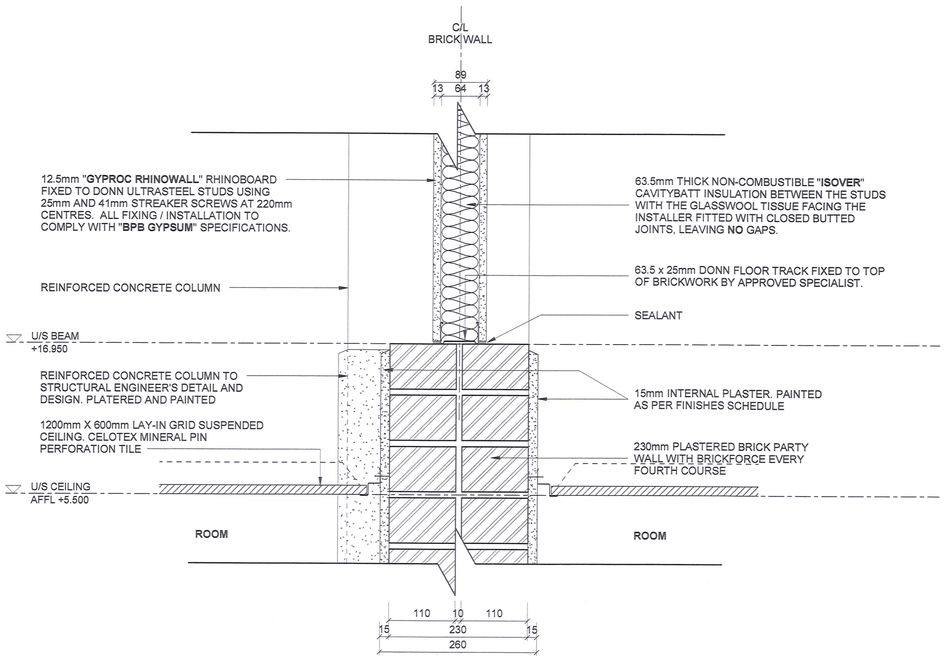


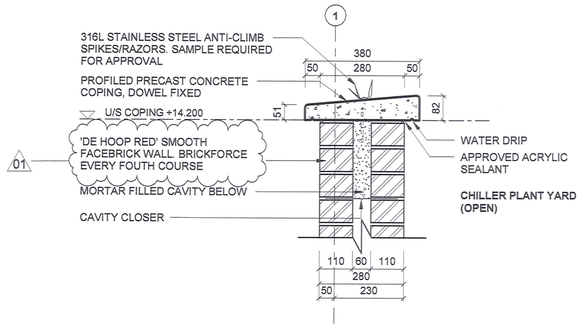
18 DETAIL 18 - BRICKWORK SUPPORT OVER TRENCHES

DE-0066-03 | SCALE 1 : 5



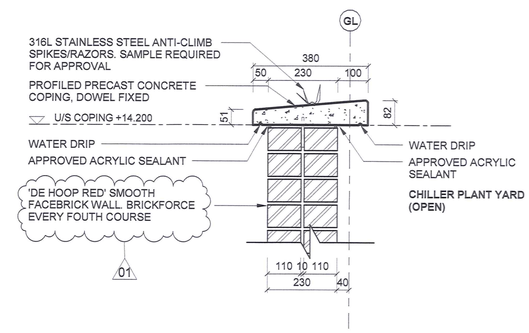
19 DETAIL 19 - DRYWALL ABOVE BRICKWORK

DE-0066-03 | SCALE 1 : 5



20 DETAIL 20 - COPING DETAIL w/280mm BRICKWORK

DE-0066-03 | SCALE 1 : 10



21 DETAIL 21 - COPING DETAIL w/230mm BRICKWORK

DE-0066-03 | SCALE 1 : 10

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-GA-0016-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
00	FIRST ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/06/22

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OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP K
SIGNATURE	06 05 19
REG. NUMBER	20743231
SCALE:	AS SHOWN A1

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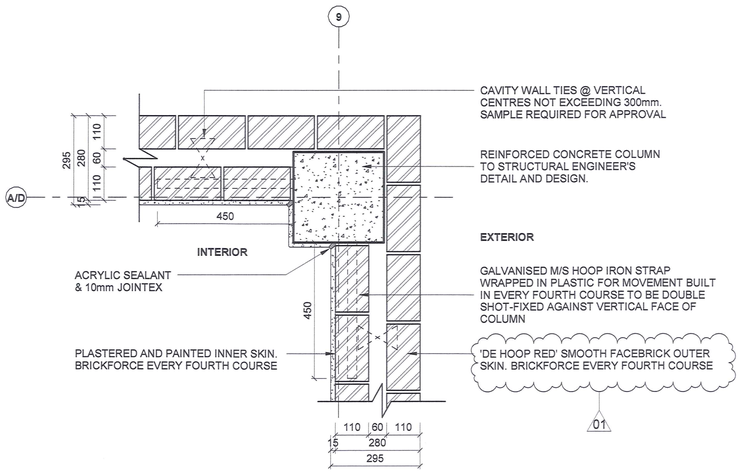
PORT OF SALDANHA

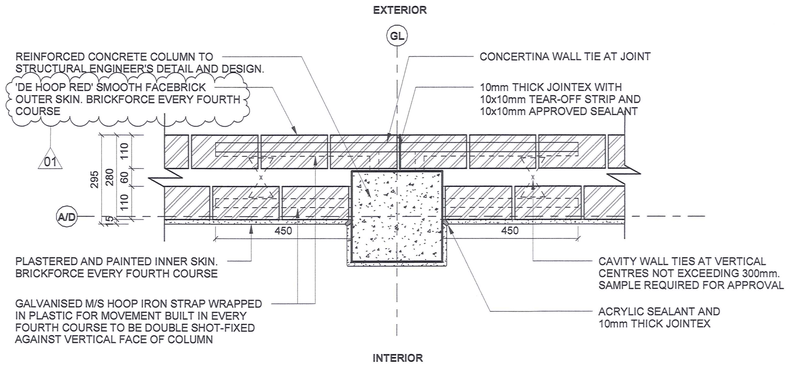
IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE: SUBSTATION M
GENERAL DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	DE	0066	03	01	AE



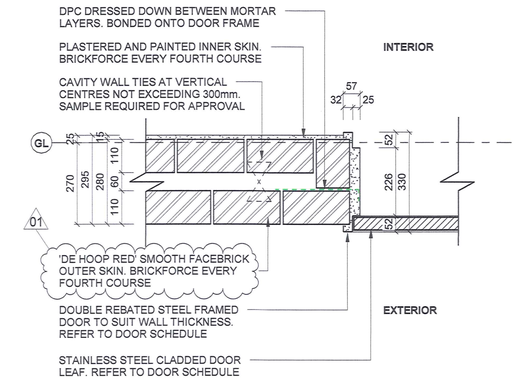
1 DETAIL 1 - COLUMN / 280mm BRICK WALL CORNER

DE-0067-01 SCALE 1 : 10



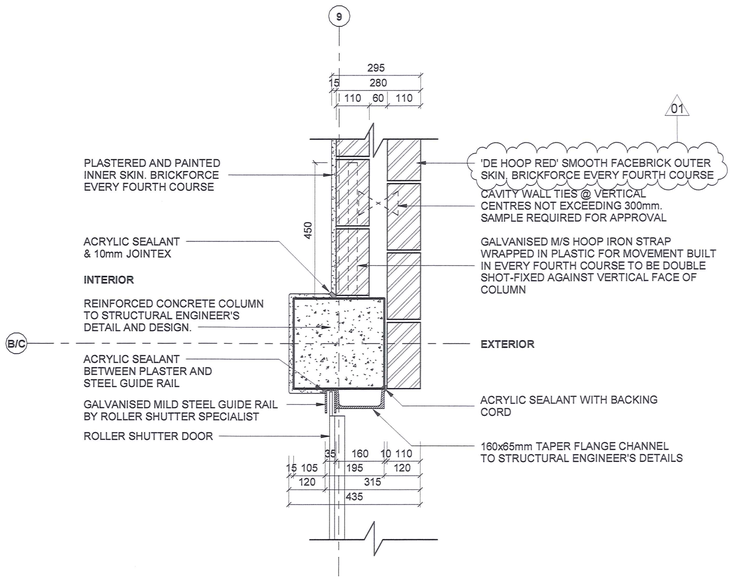
3 DETAIL 3 - COLUMN / 280mm BRICK WALL

DE-0067-01 SCALE 1 : 10



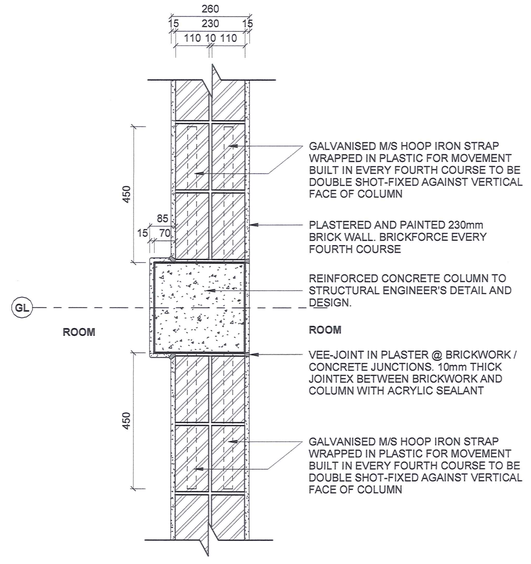
5 DETAIL 5 - TYPICAL DOOR JAMB DETAIL

DE-0067-01 SCALE 1 : 10



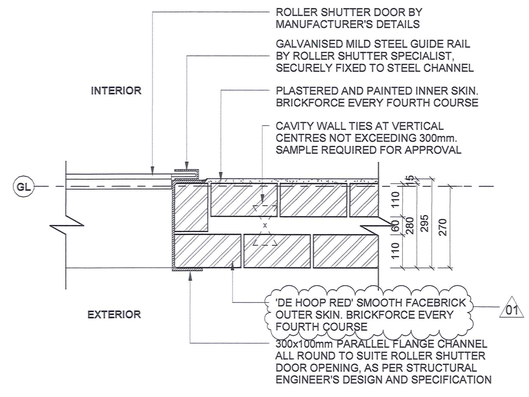
2 DETAIL 2 - COLUMN / 280mm BRICK WALL_ENTRANCE JAMB

DE-0067-01 SCALE 1 : 10



4 DETAIL 4 - COLUMN / 230mm BRICK WALL JUNCTION

DE-0067-01 SCALE 1 : 10



6 DETAIL 6 - TYPICAL ROLLER SHUTTER DOOR JAMB

DE-0067-01 SCALE 1 : 10

MASTER
07 MAY 2019
AECOM
TRANSNET

1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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CHECKED	JPK		06	05	19

OPERATING DIVISIONS			
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TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:10	A1

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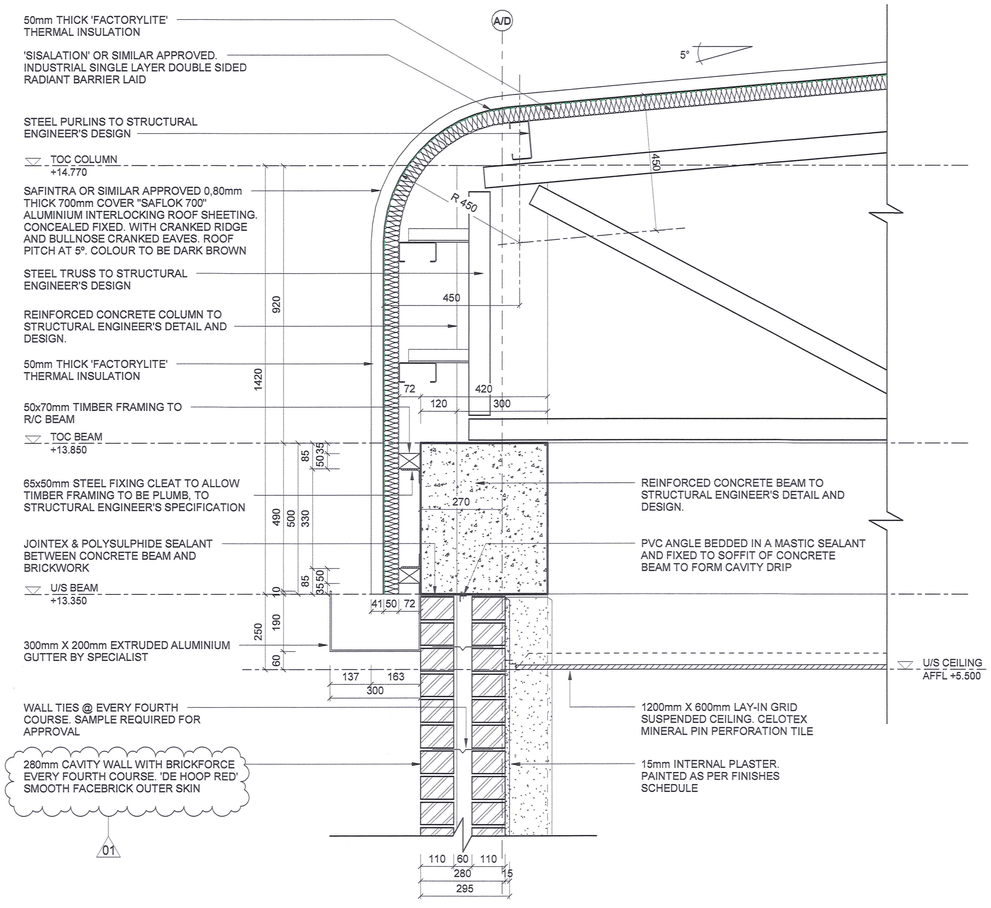
PORT OF SALDANHA

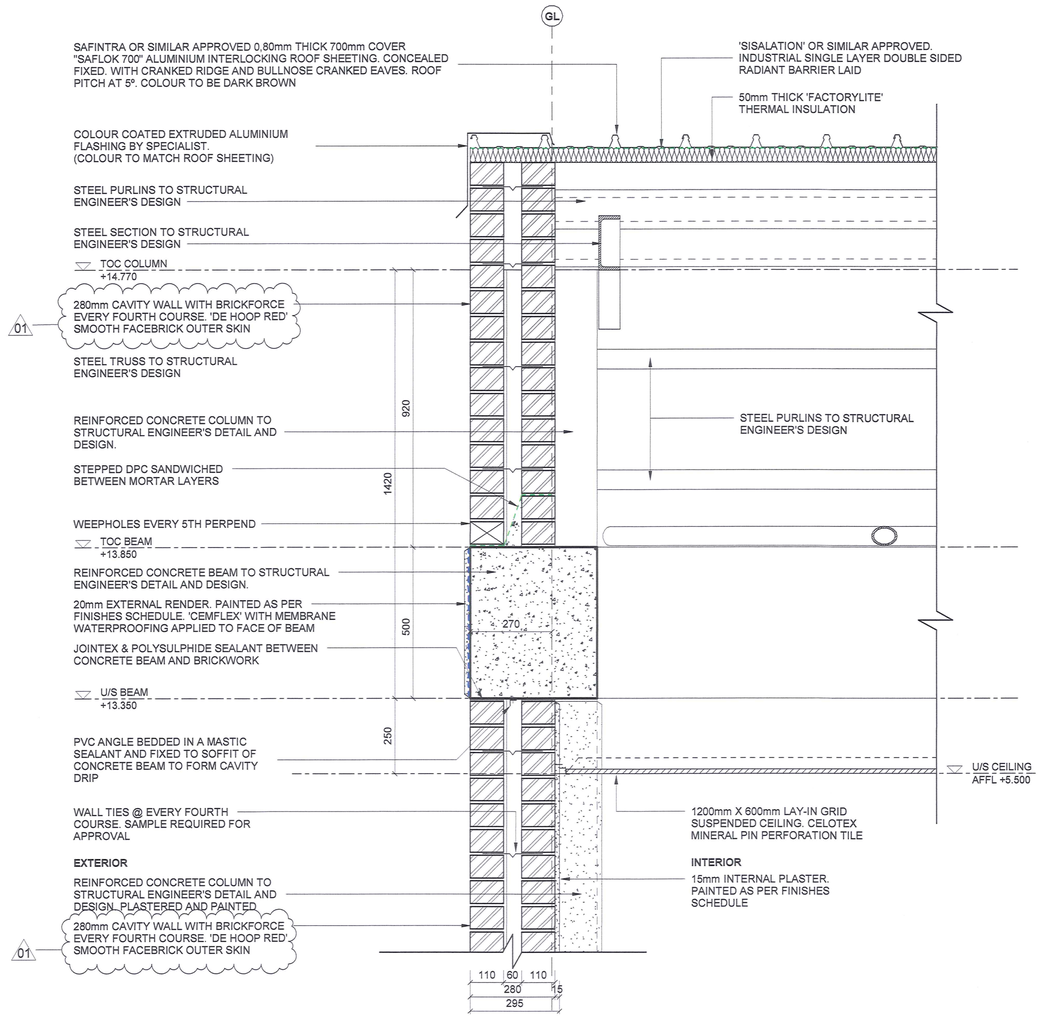
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N PLAN DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 6 7	0 1	01	AE



7 DETAIL 7 - CRANKED EAVE

DE-0068-01 SCALE 1 : 10



8 DETAIL 8 - BACK GABLE

DE-0068-01 SCALE 1 : 10

MASTER
07 MAY 2019
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TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-GA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)

REFERENCE DRAWINGS

NOTES

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REG. No. 1968/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
00	FIRST ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/08/22

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CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:10	A1

Transnet Capital Projects
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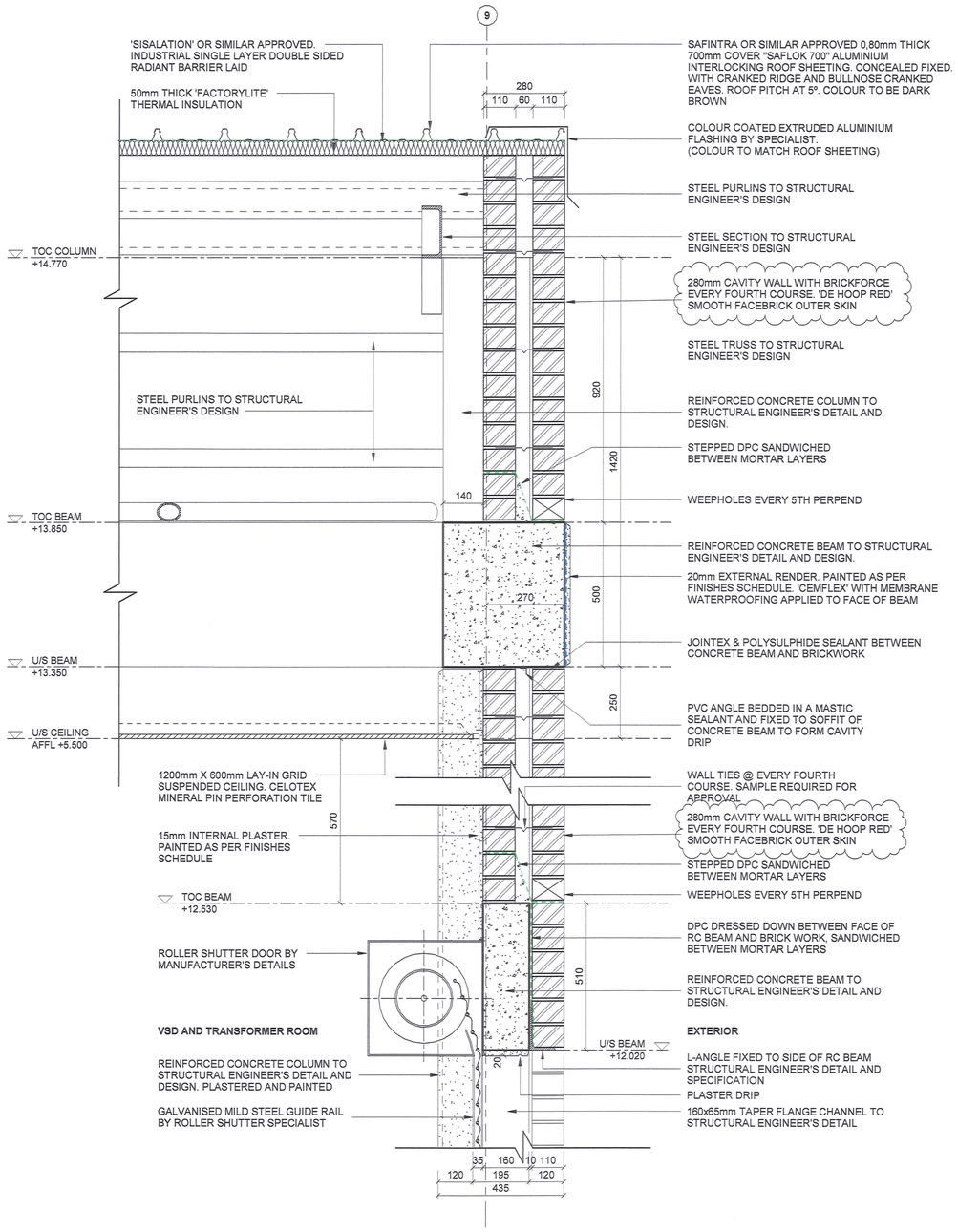
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

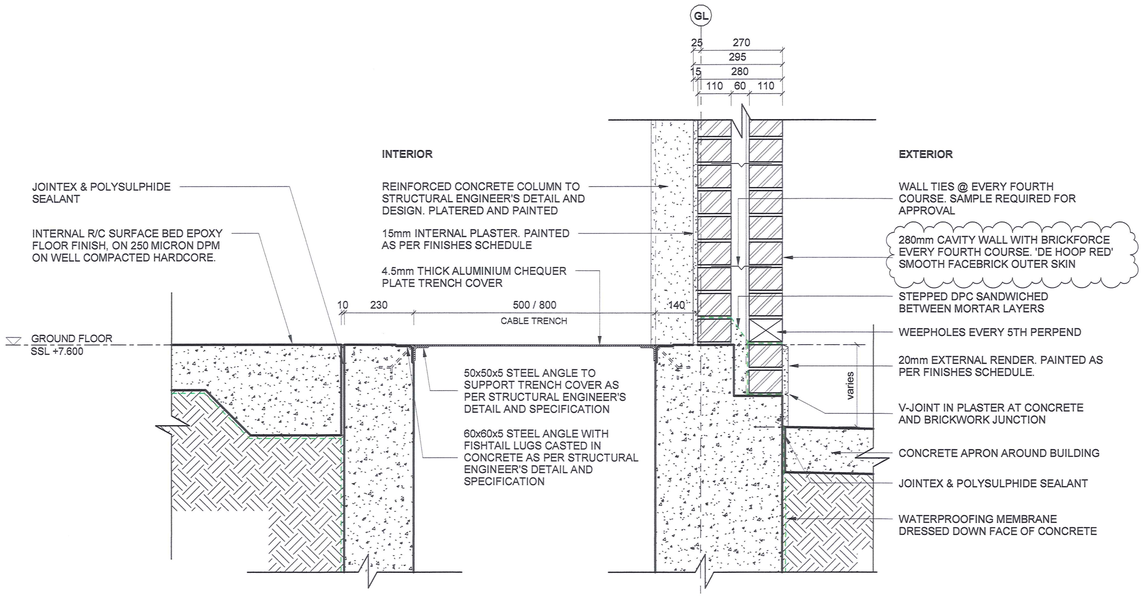
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N ROOF DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	DE	0068	01	01	AE



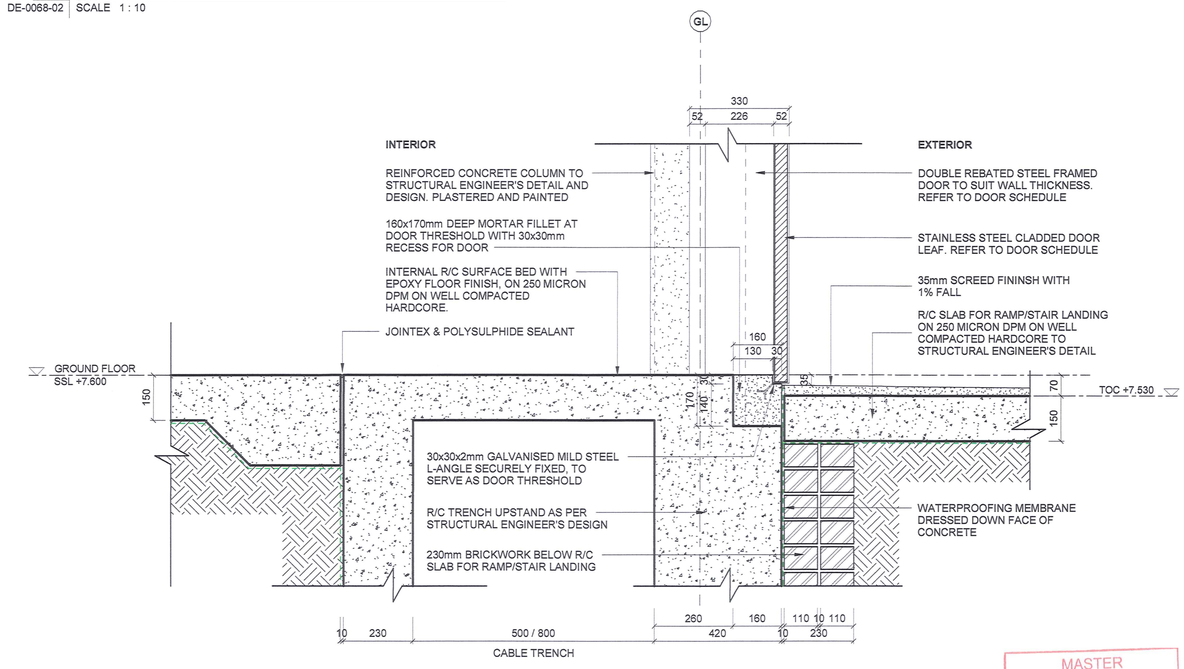
9 DETAIL 9 - VSD AND TRANSFORMER ROOM GABLE WALL

DE-0068-02 | SCALE 1 : 10



10 DETAIL 10 - TYPICAL PERIMETER TRENCH

DE-0068-02 | SCALE 1 : 10



11 DETAIL 11 - TYPICAL DOOR THRESHOLD

DE-0068-02 | SCALE 1 : 10

MASTER
07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-GA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
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OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:10	A1

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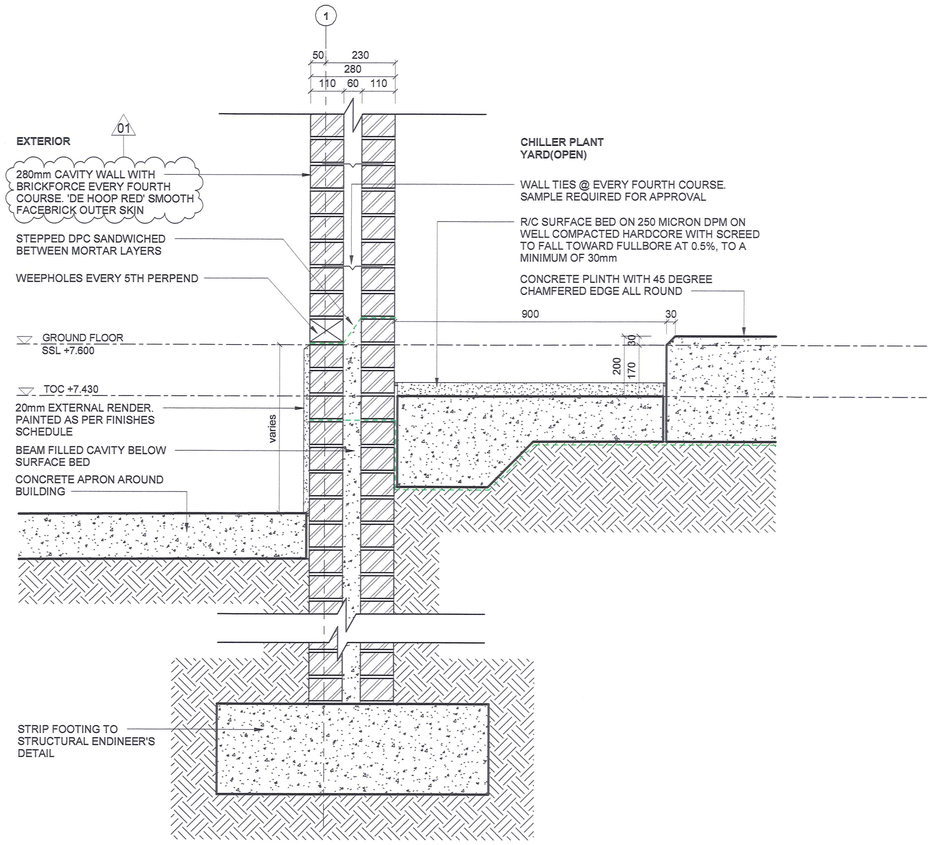
FAX: 086 677 2455

PORT OF SALDANHA

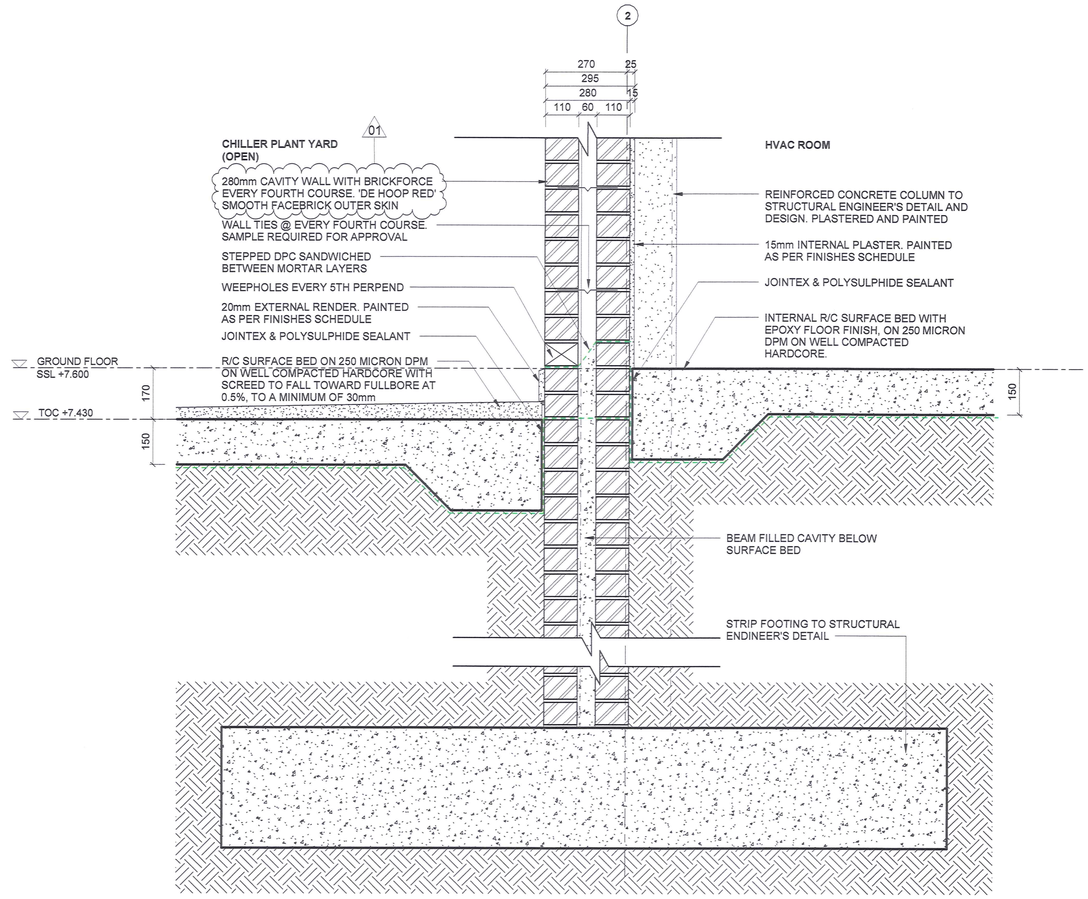
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N ROOF AND TRENCH DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 6 8	0 2	01	AE



12 DETAIL 12 - CHILLER PLANT YARD SCREEN WALL

DE-0069-01 | SCALE 1 : 10



13 DETAIL 13 - HVAC/CHILLER PLANT

DE-0069-01 | SCALE 1 : 10

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

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NO	DESCRIPTION	BY	CHK	APP	DATE
01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
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TRANSNET CAPITAL PROJECTS			
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N GENERAL DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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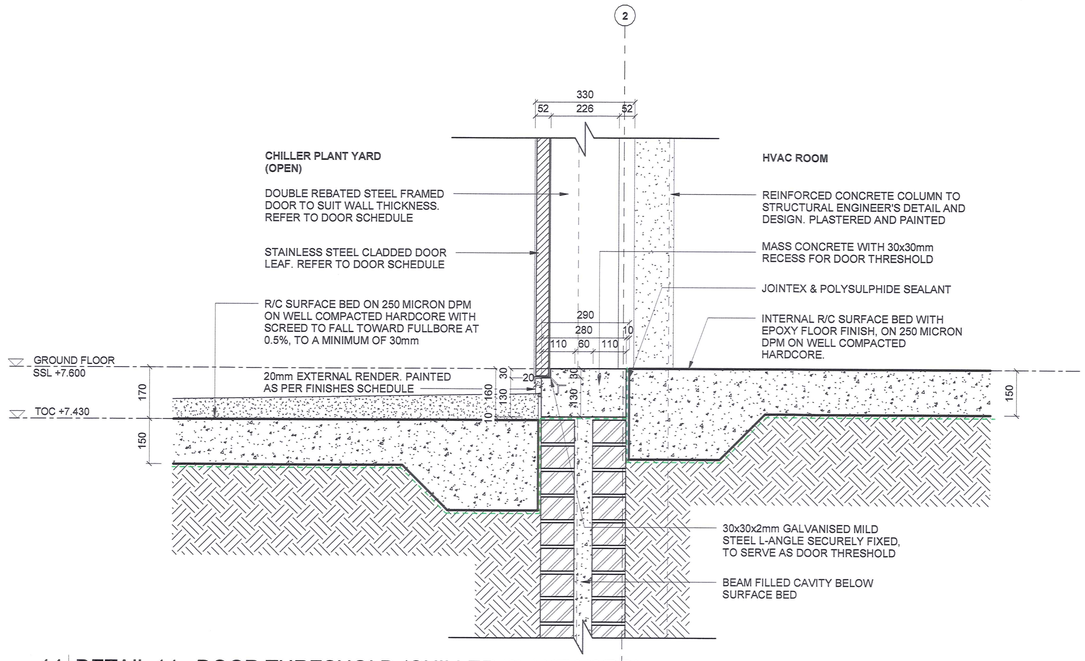
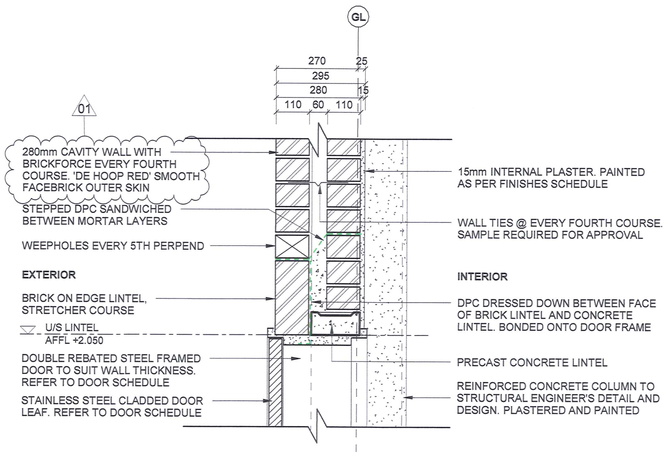


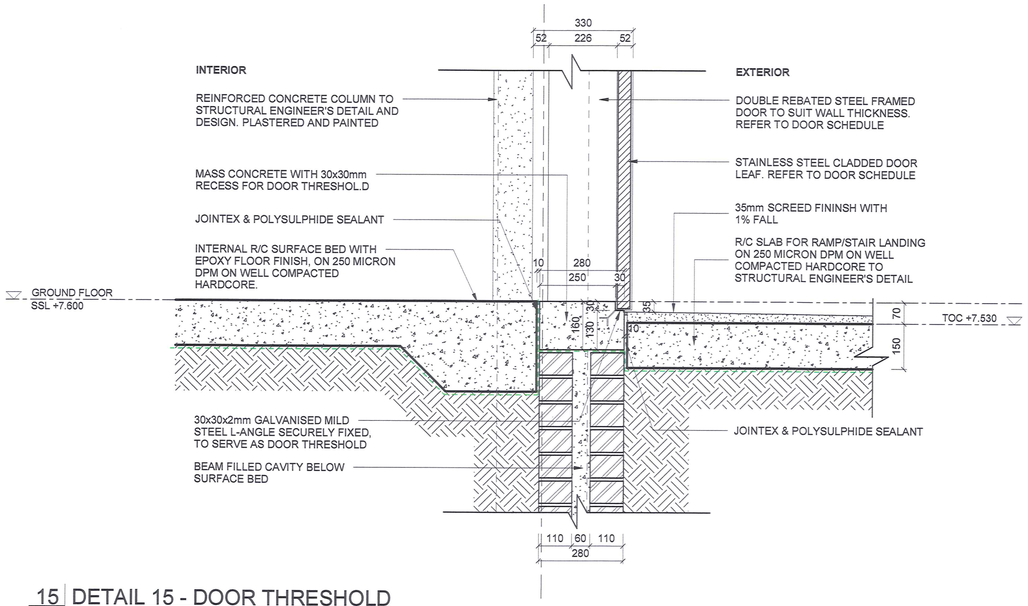
14 DETAIL 14 - DOOR THRESHOLD (CHILLER PLANT YARD)

DE-0069-02 SCALE 1 : 10



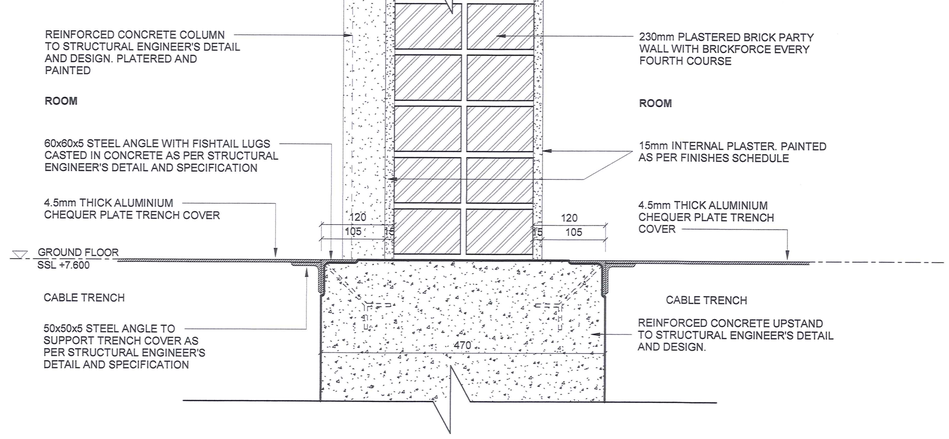
16 DETAIL 16 - TYPICAL DOOR HEAD/LINTEL DETAIL

DE-0069-02 SCALE 1 : 10



15 DETAIL 15 - DOOR THRESHOLD

DE-0069-02 SCALE 1 : 10



17 DETAIL 17 - TYPICAL ROOM PARTY WALL

DE-0069-02 SCALE 1 : 5

MASTER
07 MAY 2019
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TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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01	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
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DRAWN	RU		06 05 19
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DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	AS SHOWN	A1

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
GENERAL DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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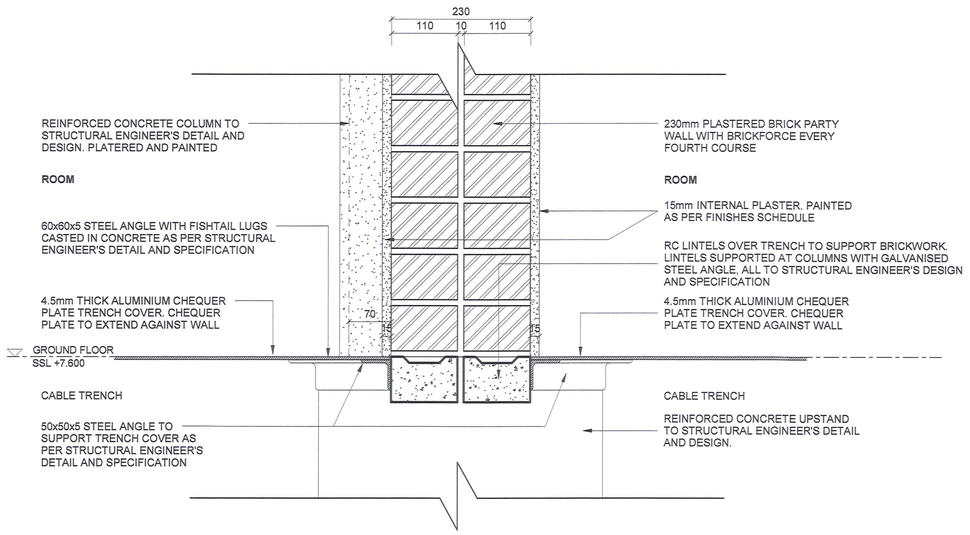
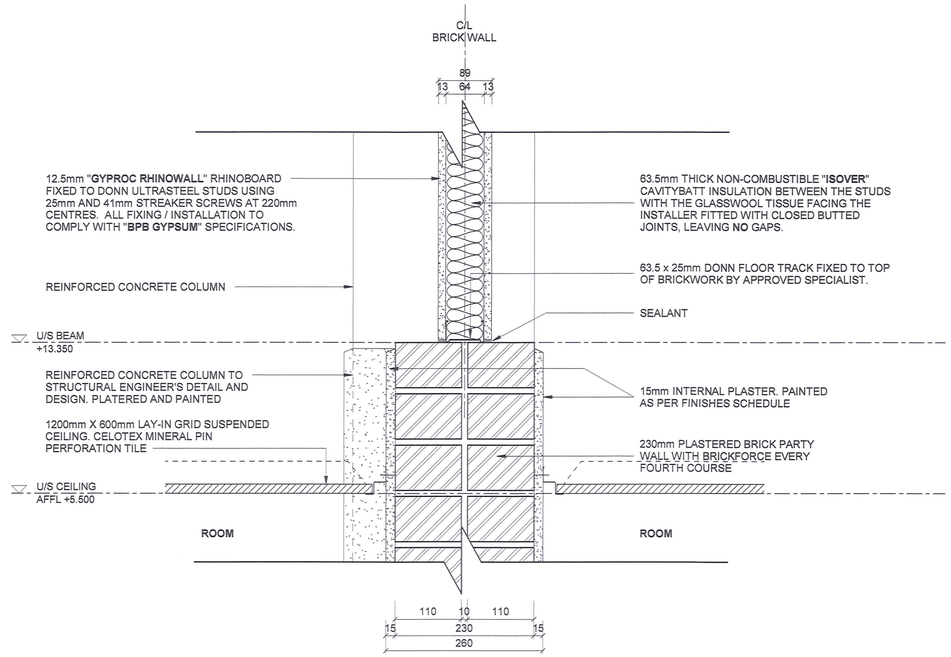


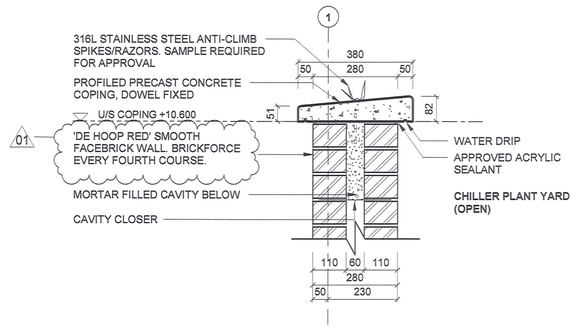
18 DETAIL 18 - BRICKWORK SUPPORT OVER TRENCHES

DE-0069-03 | SCALE 1 : 5



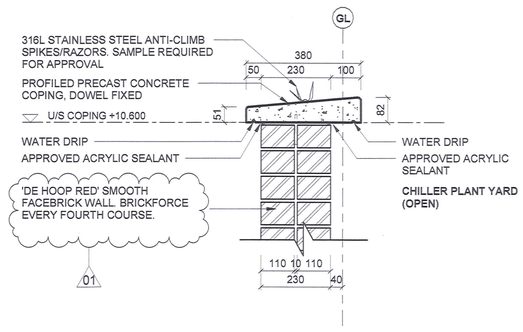
19 DETAIL 19 - DRYWALL ABOVE BRICKWORK

DE-0069-03 | SCALE 1 : 5



20 DETAIL 20 - COPING DETAIL w/280mm BRICKWORK

DE-0069-03 | SCALE 1 : 10



21 DETAIL 21 - COPING DETAIL w/230mm BRICKWORK

DE-0069-03 | SCALE 1 : 10

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-GA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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	FACEBRICK SPECIFICATION AMENDED				2019/05/06
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DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK
SIGNATURE	
DATE	06 05 19
REG. NUMBER	24743231
SCALE:	AS SHOWN A1

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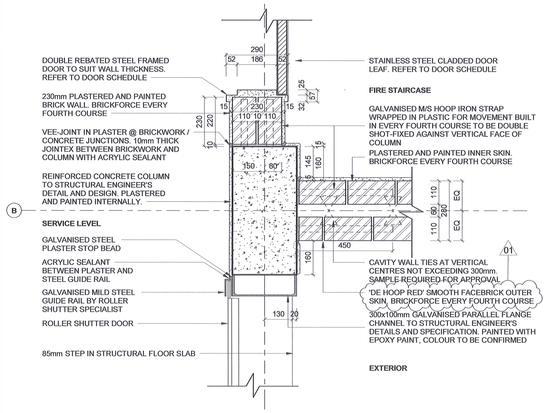
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N GENERAL DETAILS

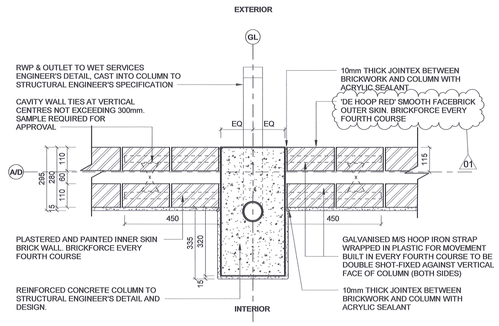
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 6 9	0 3	01	AE



DETAIL 1 - COLUMN / 280mm BRICK WALL ENTRANCE

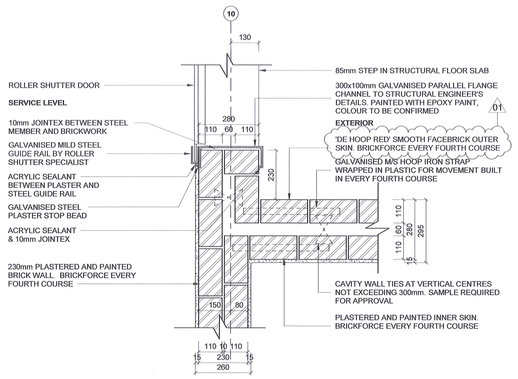
1 | JAMB

DE-0070-01 | SCALE 1 : 10



4 DETAIL 4 - COLUMN / 230mm BRICK WALL JUNCTION

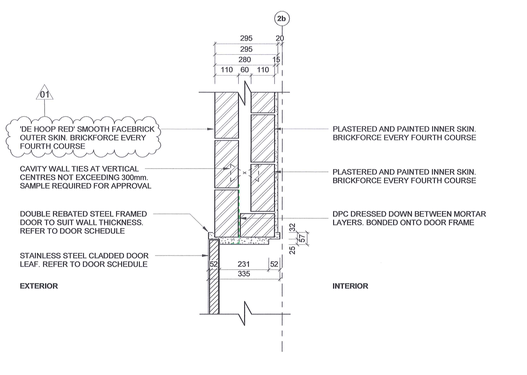
DE-0070-01 | SCALE 1 : 10



DETAIL 2 - TYPICAL ROLLER SHUTTER DOOR JAMB

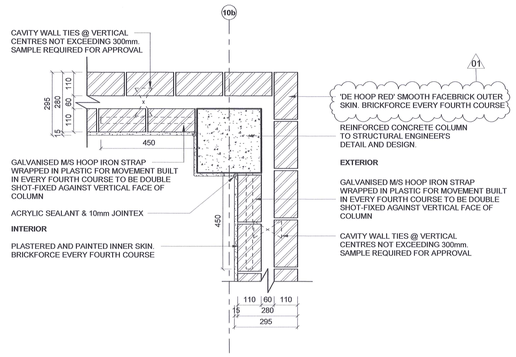
2 | DETAIL

DE-0070-01 | SCALE 1 : 10



5 DETAIL 5 - TYPICAL DOOR JAMB DETAIL

DE-0070-01 | SCALE 1 : 10



3 DETAIL 3 - COLUMN / 280mm BRICK WALL CORNER

DE-0070-01 | SCALE 1 : 10

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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REG. No. 1966/009828/07

REVISIONS

NO	DESCRIPTION	BY	CHK'D/APP'D	DATE
01	ISSUED FOR CONSTRUCTION:	RJ	JPK	JPK 20190506
	FACEBRICK SPECIFICATION AMENDED			20190506
00	FIRST ISSUE FOR CONSTRUCTION	RJ	JPK	JPK 20190605

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DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
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PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	

SCALE: 1:10 A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000906
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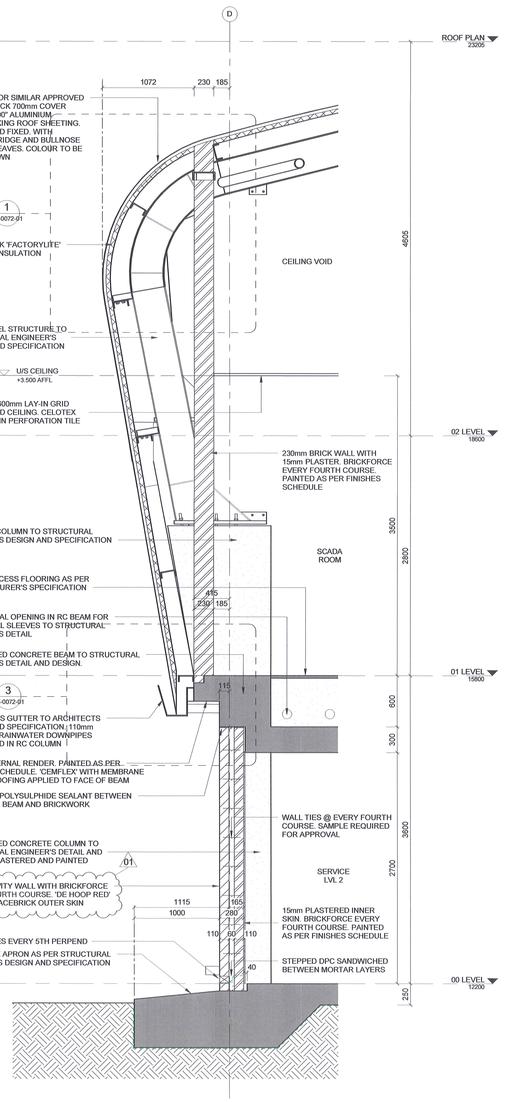
FAX: 086 677 2455

PORT OF SALDANHA

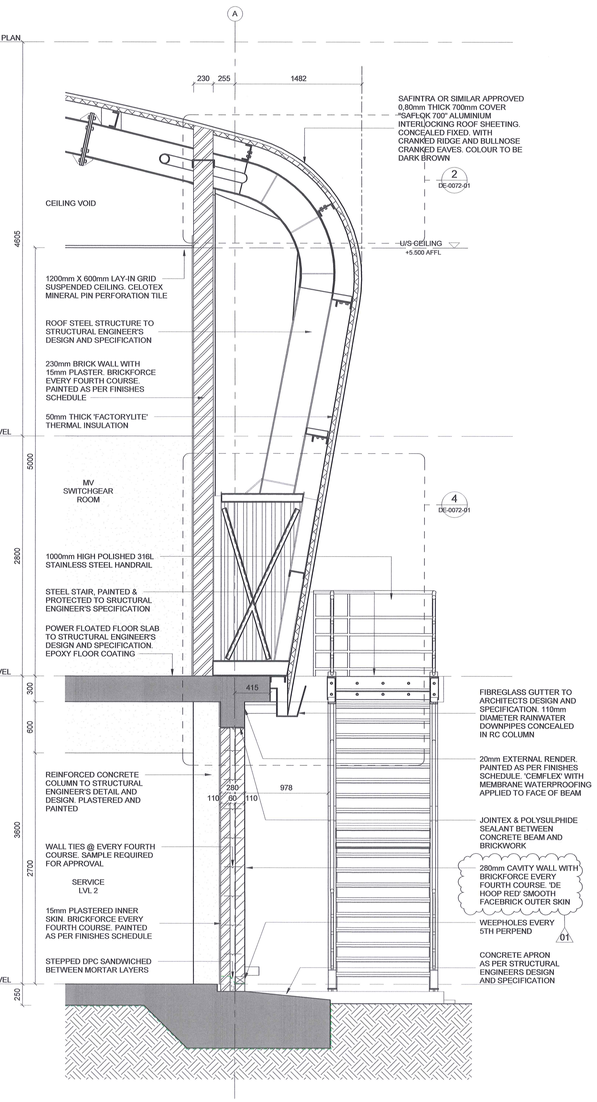
IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
PLAN DETAILS

PROJECT NUMBER	OO	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	5 10	A	DE	0 0 7 0	0 1	01	AE



1 | SECTION A - SKIN SECTION 1

DE-0071-01 | SCALE 1 : 25



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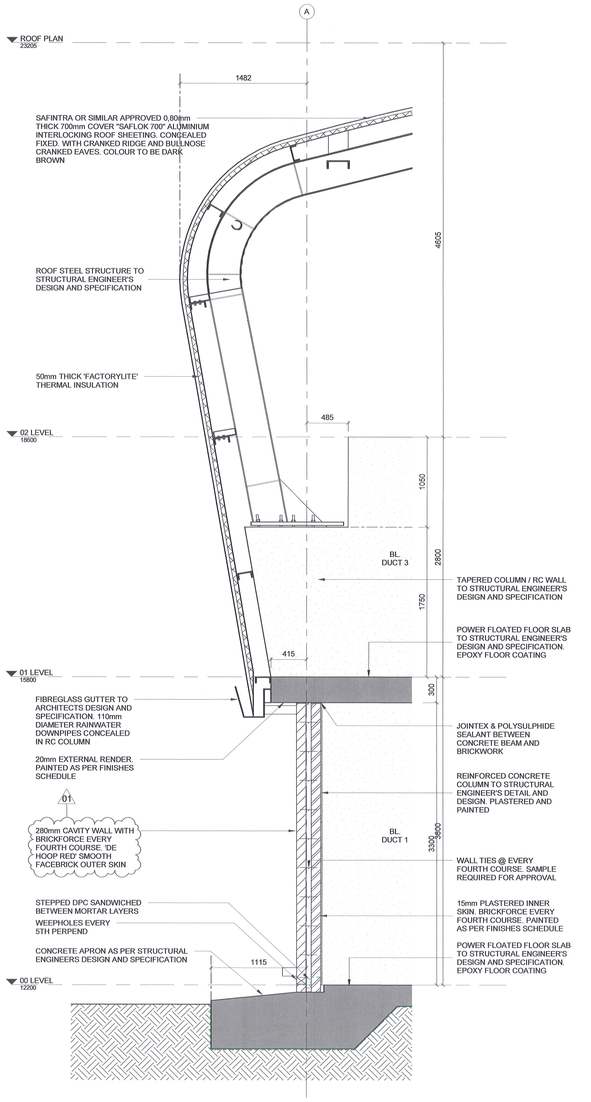
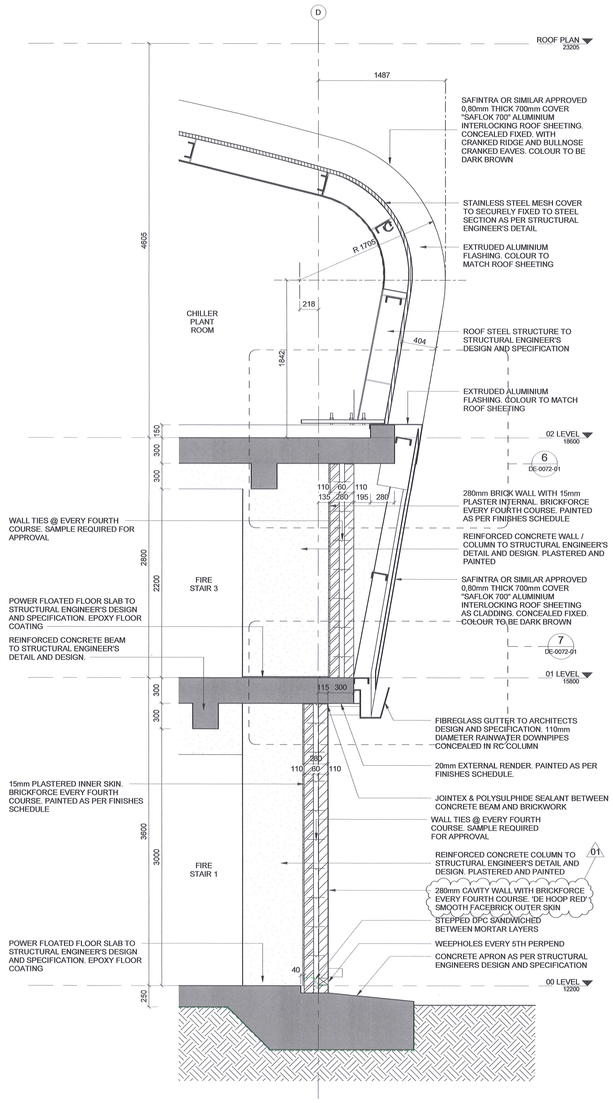
DE-0071-01 | SCALE 1 : 25



3 | SECTION C - SKIN SECTION 3

DE-0071-01 | SCALE 1 : 25



4 | SECTION C - SKIN SECTION 4

DE-0071-01 | SCALE 1 : 25

MASTER
07 MAY 2019
AECOM

DRAWING NO.	REFERENCE
REFERENCE DRAWINGS	

NOTES

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AECOM

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CARL CRONJE DRIVE

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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION	RJ	JPK	JPK	20190506
	FACEBRICK SPECIFICATION AMENDED				20190506
00	FIRST ISSUE FOR CONSTRUCTION	RJ	JPK	JPK	20180928

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE
DRAWN	RJ		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK DATE
SIGNATURE	06 05 19
REG. NUMBER	970422231
SCALE:	1:25 A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000906/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
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FAX 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SKIN SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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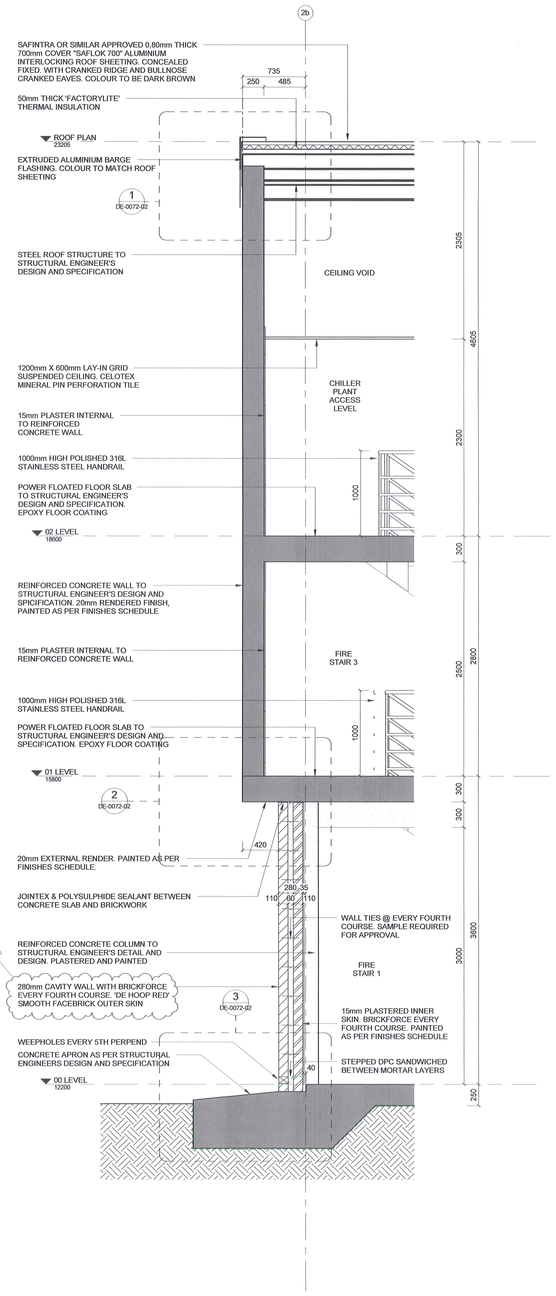

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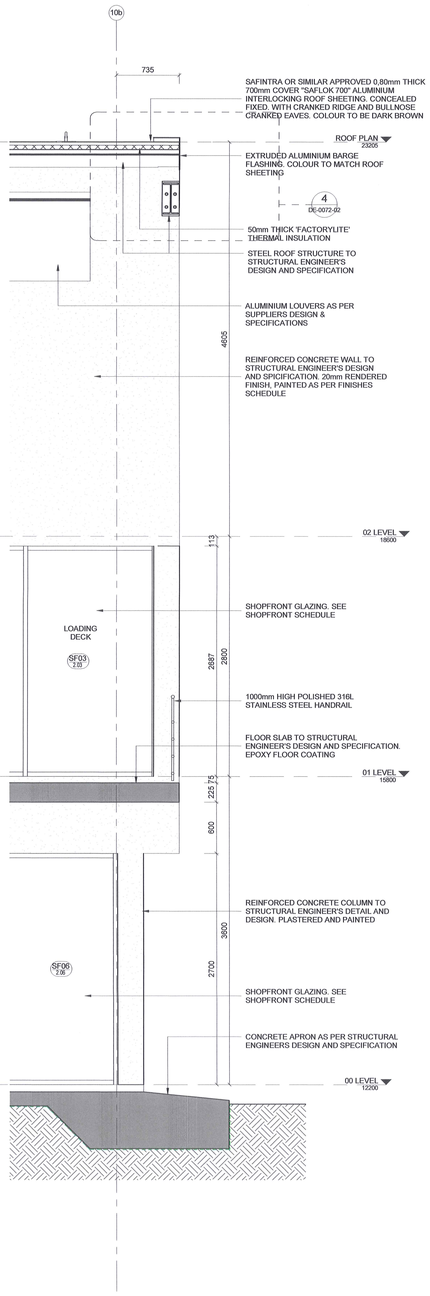
DE-0071-02 | SCALE 1 : 25



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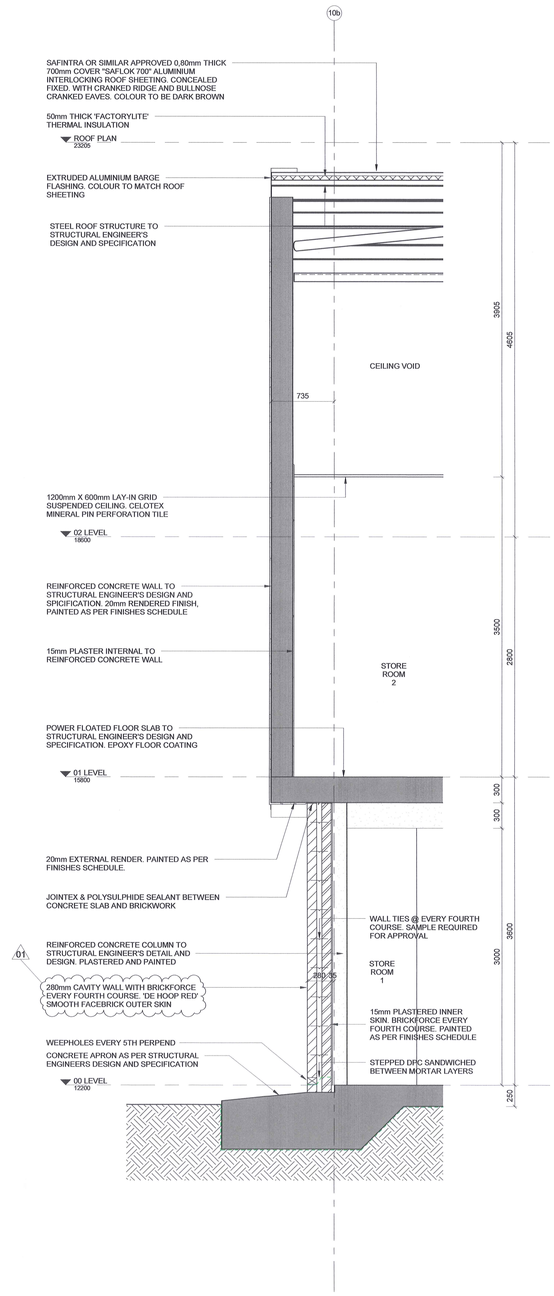
DE-0071-02 | SCALE 1 : 25



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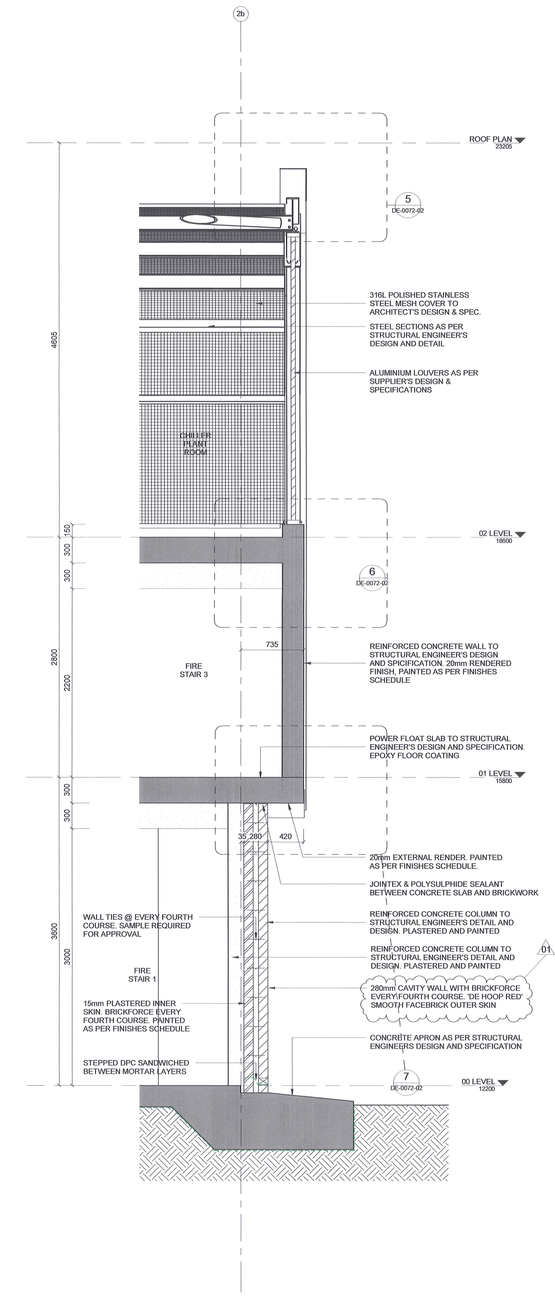

8 | SECTION D - SKIN SECTION 8
DE-0071-02 | SCALE 1 : 25

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHK	APPD	DATE
01	ISSUED FOR CONSTRUCTION:	RJ	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/05
00	FIRST ISSUE FOR CONSTRUCTION	RJ	JPK	JPK	2019/05/05

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DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
PR.ENG./PR.TECH./PR.ARCH	JP KOK		DATE
SIGNATURE			06 05 19
REG. NUMBER	24743231		
SCALE:	1:25		A0

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000906
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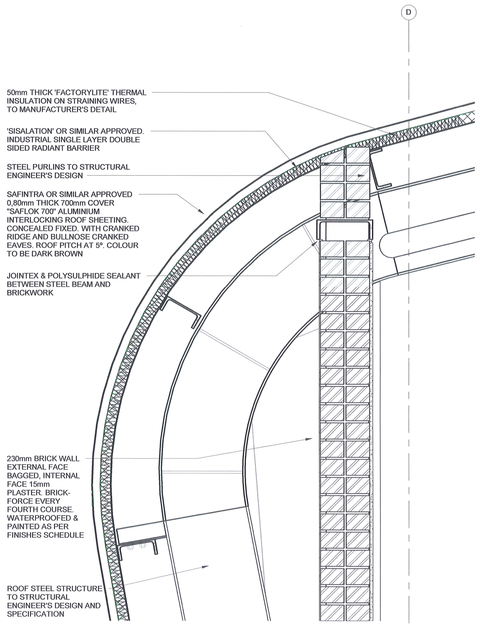
8001
TEL: 021 940 1999
FAX: 086 677 2455

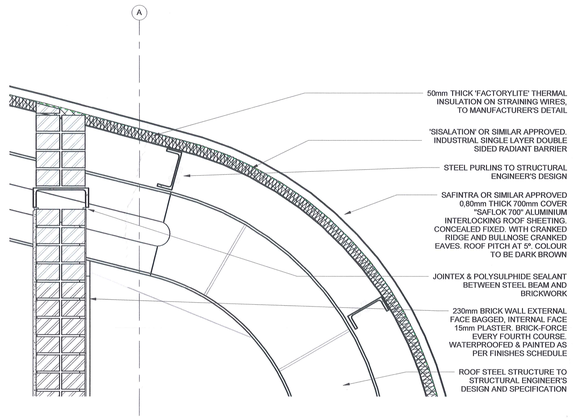
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SKIN SECTIONS

PROJECT NUMBER								ODI	FBS		DIS	TYPE	DRAWING NO.			SHEET	REV	ID
1	9	2	4	7	0	1	2	5	1	0	A	D	E	0	0	7	1	0	2	01	AE



1 | SECTION A - Skin Section 1 - Detail 1
DE-0072-01 | SCALE 1 : 10



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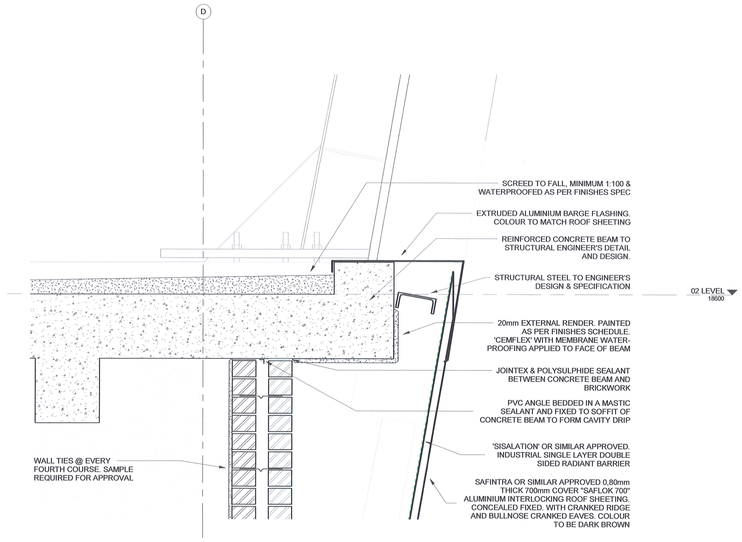
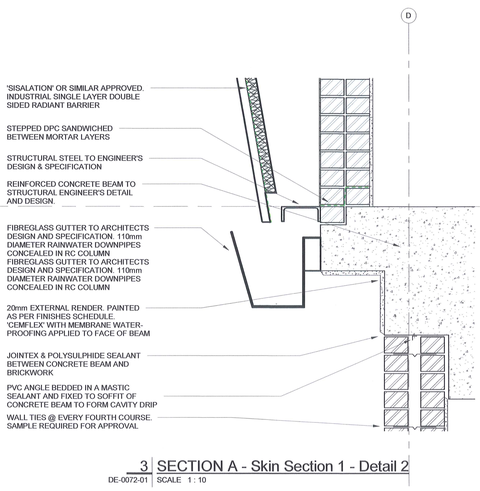
DE-0072-01 | SCALE 1 : 10



6 | SECTION C - Skin Section 2 - Detail 1
DE-0072-01 | SCALE 1 : 10



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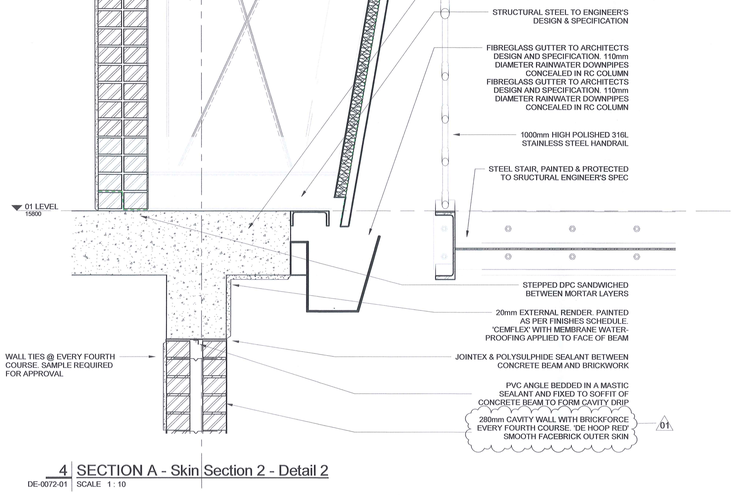
DE-0072-01 | SCALE 1 : 10



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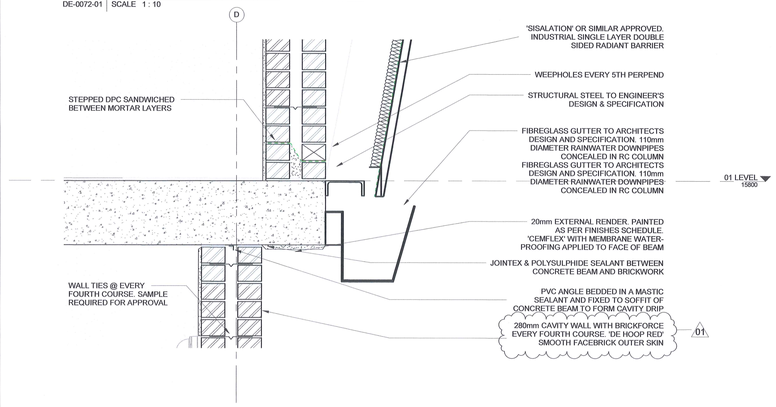
DE-0072-01 | SCALE 1 : 10



7 | SECTION C - Skin Section 2 - Detail 2
DE-0072-01 | SCALE 1 : 10

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07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE

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01	ISSUED FOR CONSTRUCTION.	RJ	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
00	FIRST ISSUE FOR CONSTRUCTION	RJ	JPK	JPK	2019/05/05

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DRAWN	RJ		06 05 19
CHECKED	CV		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK DATE
SIGNATURE	06 05 19
REG. NUMBER	24383331
SCALE:	1:10 A0

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TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS). REG. NO. 1990/000906
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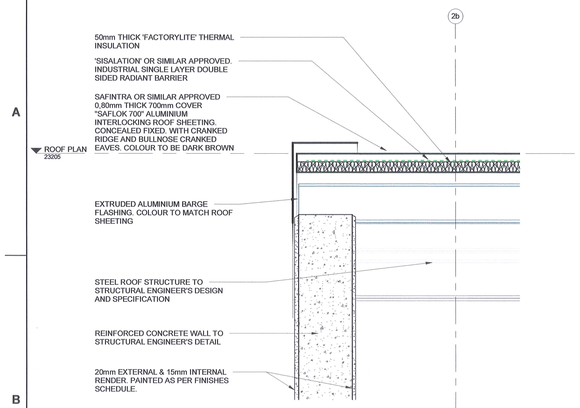
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SKIN SECTION DETAILS

PROJECT NUMBER										ODS	FBS			DIS	TYPE	DRAWING NO.		SHEET	REV	ID
1	9	2	4	7	0	1				2	5	1	0	A	D	E	0 0 7 2	0 1	01	AE



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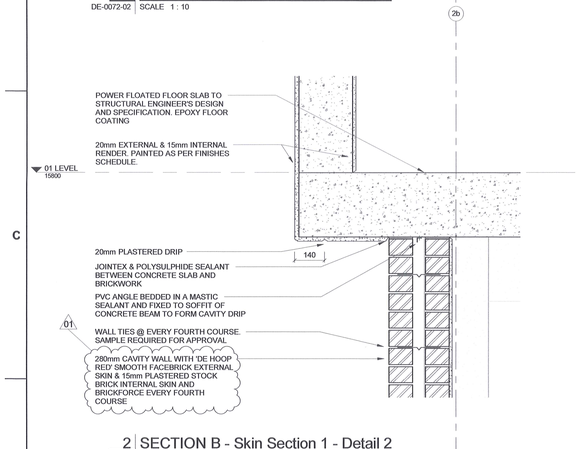
DE-0072-02 SCALE 1 : 10



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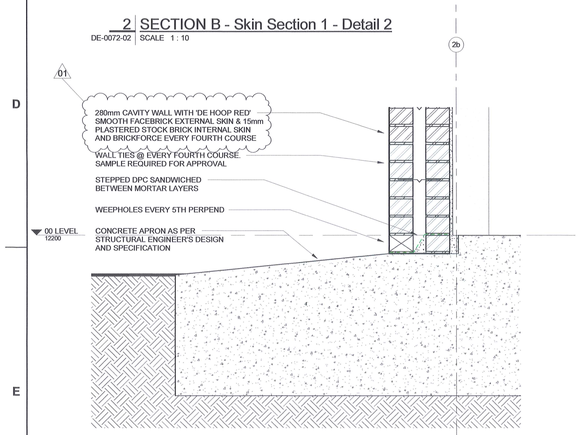

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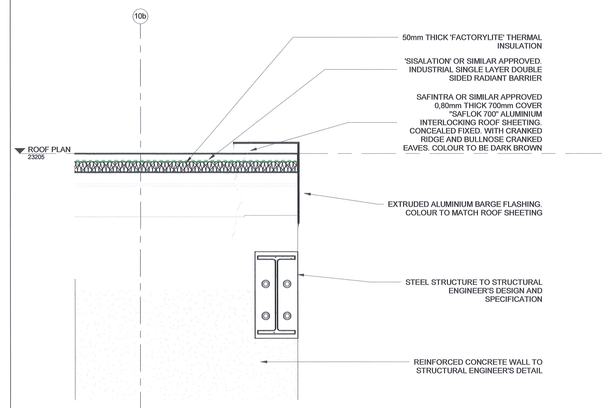

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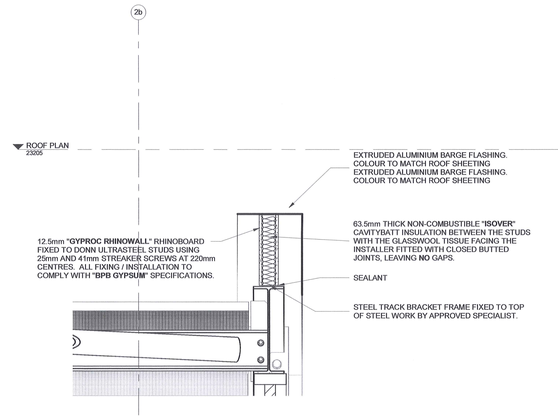
DE-0072-02 SCALE 1 : 10



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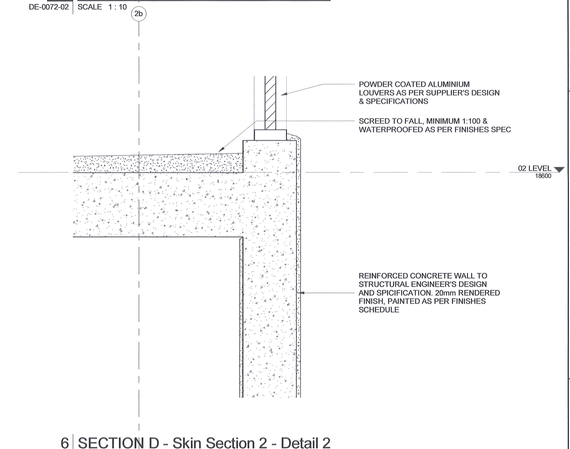
DE-0072-02 SCALE 1 : 10



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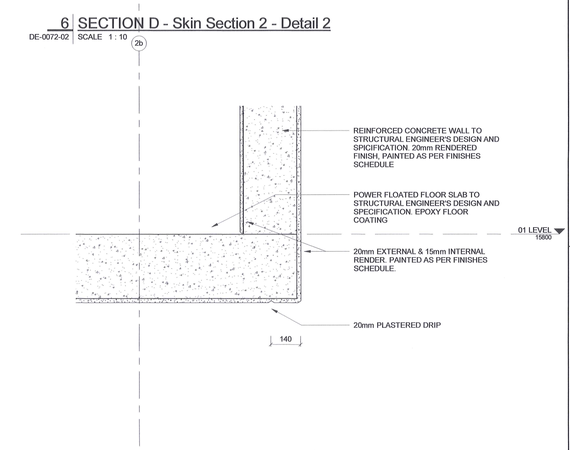
DE-0072-02 SCALE 1 : 10



7 SECTION D - Skin Section 2 - Detail 3
DE-0072-02 SCALE 1 : 10

DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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MASTER
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AECOM TRANSNET

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CARL CRONJE DRIVE

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REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	20190506
	FACEBRICK SPECIFICATION AMENDED				20190508
00	FIRST ISSUE FOR CONSTRUCTION	RU	JPK	JPK	20180628

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CHECKED	JPK		06 05 19

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24030231	
SCALE:	1:10	A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) - REG. NO. 1990/000906
TABLE BAY BUILDING, TYGERBERG PARK,
163 LVS KRIGE DRIVE, PLATTEKLOOF, 8001
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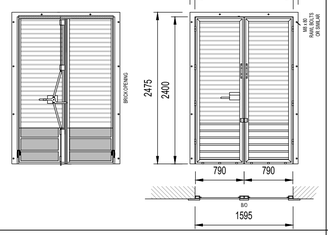
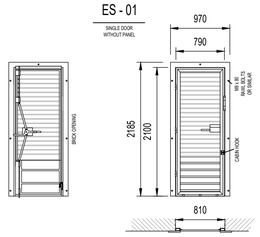
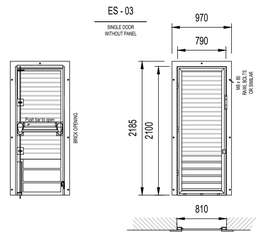
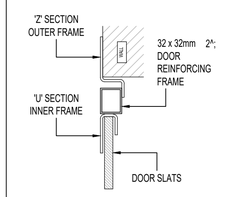
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SKIN SECTION DETAILS

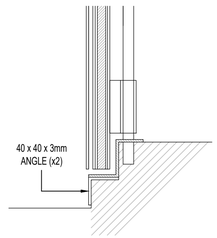
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 7 2	0 2	01	AE

		INSIDE / OUTSIDE	INSIDE / OUTSIDE	INSIDE / OUTSIDE
	DOOR ELEVATION			
	DOOR NUMBER	D1	D2	D3
	POSITION	CONTROL ROOM	WC	BATTERY ROOM
	FRAME	WELDED GALVANISED MILD STEEL FRAME COMPLETE WITH BUILDING IN LUGS.	WELDED GALVANISED MILD STEEL FRAME COMPLETE WITH BUILDING IN LUGS.	WELDED GALVANISED MILD STEEL FRAME COMPLETE WITH BUILDING IN LUGS.
	DOOR TYPE	DUAL SWING STEEL DOORS WITH LEAF DIMENSION OF 800mm. TO HAVE A TOTAL OPENING SIZE OF 2400 x 1600mm WIDTH. CURTAIN : STANDARD GALV. (Z275) 75 x 1.2mm INTERLOCKING SLATS	SINGLE SWING STEEL DOOR WITH LEAF DIMENSION OF 790mm. TO HAVE A TOTAL OPENING SIZE OF 2100 x 810mm WIDTH. CURTAIN : STANDARD GALV. (Z275) 75 x 1.2mm INTERLOCKING SLATS	SINGLE SWING STEEL DOOR WITH LEAF DIMENSION OF 790mm. TO HAVE A TOTAL OPENING SIZE OF 2100 x 810mm WIDTH. CURTAIN : STANDARD GALV. (Z275) 75 x 1.2mm INTERLOCKING SLATS
	FINISH	HOT DIP GALVANISED OR FINISHED WITH COLOUR TO BE APPROVED BY ESKOM.	HOT DIP GALVANISED OR FINISHED WITH COLOUR TO BE APPROVED BY ESKOM.	HOT DIP GALVANISED OR FINISHED WITH COLOUR TO BE APPROVED BY ESKOM.
IRONMONGERY	HINGES	4 x 80mm BULLET HINGES PER DOOR LEAF	4 x 45mm BULLET HINGES PER DOOR LEAF	4 x 45mm BULLET HINGES PER DOOR LEAF
IRONMONGERY	LOCK SET / LOCK	3 POINT LOCKING SYSTEM TO LOCK INTO TOP DOOR FRAME "L" ANGLE AND BOTTOM OF "L".	3 POINT LOCKING SYSTEM TO LOCK INTO TOP DOOR FRAME "L" ANGLE AND BOTTOM OF "L".	UNION 801 DMG STEEL 'PANIC PROBOLT' WITH A TWO TOP AND BOTTOM LOCKING POINTS VERTICAL BAR OR BOTTOM LOCKING POINTS VERTICAL BAR OR EQUAL APPROVED.
IRONMONGERY	BOLTS	M8 x 80 RAWL BOLTS OR SIMILAR	M8 x 80 RAWL BOLTS OR SIMILAR	M8 x 80 RAWL BOLTS OR SIMILAR
IRONMONGERY	MISC.	N.B. DOORS TO HAVE 30 x 6mm SELF ADHESIVE RUBBER SEALING STRIPS FIXED TO INNER EDGES OF FRAME TO PROVIDE DUST EXCLUSION		

SECTION

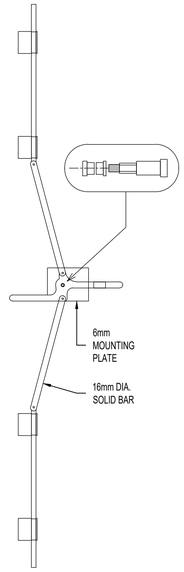


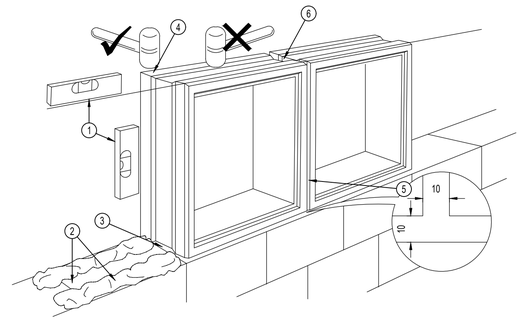
TOP VIEW FRAME DETAIL



BOTTOM LOCKING DETAIL

3 POINT LOCKING SYSTEM





TYPICAL WINBLOK® INSTALLATION DETAIL

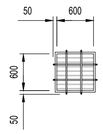
SCALE : NTS

BUILDING THE WINBLOK® IN, AS PER MANUFACTURER'S CATALOGUE

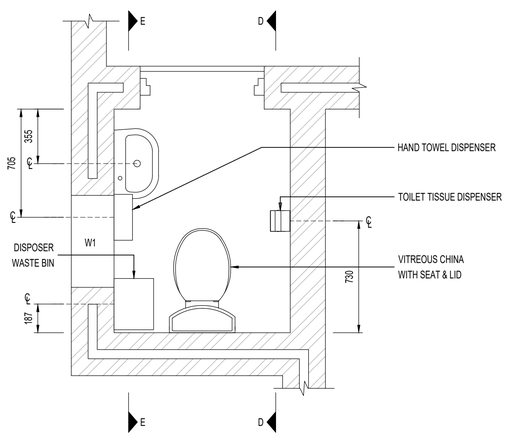
IN GENERAL, STANDARD PRACTICES FOR CONCRETE MASONRY CONSTRUCTION SHOULD BE APPLIED TO WINBLOK® CONSTRUCTION WITH PARTICULAR REFERENCE TO SHRINKAGE CONTROL JOINTS IN LARGE WINBLOK® PANELS. CLASS 1 MORTAR AS DEFINED IN CLAUSE 3.4.1 OF SABS 0164 : PART 1-1980 SHOULD BE USED FOR ALL JOINTING.
THE CORRECT USAGE OF DAMP PROOF COURSES IS ESSENTIAL.

1. THE WINBLOK® MUST BE LAID PLUMB TO THE BUILDERS LINE.
2. LAY WINBLOK® ON A STIFF STRONG 1:3 MIX MORTAR BED IN TWO CONTINUOUS STRIPS.
3. ALLOW THE MORTAR TO SQUASH OUTWARD AND INWARD OF THE REBATE.
4. A RUBBER MALLET MAY BE USED ONLY ON THE CORNERS TO TAP THE WINBLOK® DOWN TO THE LINE.
5. THE PERPENDICULAR JOINT BETWEEN WINBLOK® SURROUNDS SHOULD ALWAYS BE LEFT OPEN, WITH A JOINT SPACE BETWEEN EACH WINBLOK®, UNTIL A WHOLE ROW HAS BEEN LAID.
6. A DRY-MIX, NO-FINES, AGGREGATE (E.G. 13mm STONE) SHOULD BE POURED INTO THE CAVITY BETWEEN THE VERTICAL REBATES. THE VERTICAL JOINTS MAY THEN BE BACK GROUTED WITH MORTAR BEFORE TOOLING THE JOINTS. THE NO-FINES AGGREGATE ACTS AS A MOISTURE BARRIER BY INTERRUPTING CAPILLARY MIGRATION.

- MORTAR LAID ACROSS THE FULL WALL SURFACE MAY CAUSE PRESSURE IN THE REBATE AND FRACTURE THE BOTTOM FLANGE. NO MORTAR SHOULD BE ALLOWED TO BRIDGE THE REBATE CAVITY WALLS AND CARE SHOULD BE TAKEN TO MAINTAIN A CONTINUOUS CAVITY. MORTAR MUST BE KEPT CLEAR OF THE VERTICAL REBATES.

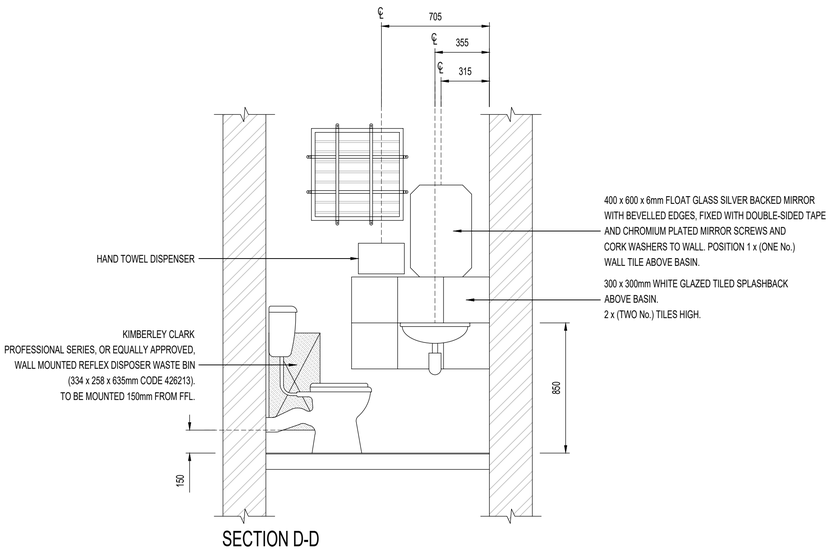


WINDOW TYPE	W1 (WINBLOK BY WINTEC)
DESCRIPTION	600 x 600 x 300mm PRECAST CONCRETE WINTEC "WINBLOK" WB66 (B) UNIT, FACTORY FITTED WITH STANDARD 20 x 6mm GALV. STEEL BURGLAR BARS BY WINTEC. THE WINBLOK UNIT IS TO COME COMPLETE WITH NATURAL ANODIZED ALUMINIUM FIXED LOUVRES, "WINLOUVRE WL (A) 66F", FITTED USING NON-ASCETIC SILICONE SEALANT. REBATES TO FACE TO EXTERNAL SKIN OF WALL.



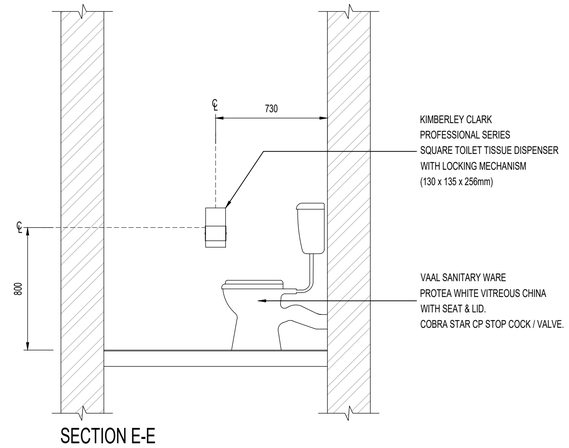
WC PLAN VIEW

SCALE 1 : 20



SECTION D-D

SCALE 1 : 20



SECTION E-E

SCALE 1 : 20

DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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.

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CARL CRONJÉ DRIVE
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FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUED FOR CONSTRUCTION	KS	JT	MT	2021-09-07

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CHECKED	JT		'21	09	07
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TITLE	NAME	SIGN	DATE		
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TRANSNET CAPITAL PROJECTS					
TITLE	NAME	SIGN	DATE		
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PR.ENG. / PR.TECH./PR. ARCH			
NAME	M TRUSCOTT	DATE	
SIGNATURE		'21	09 07
REG. NUMBER	PrArch 6935		
SCALE :	AS SHOWN	A1	

Transnet Capital Projects
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TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

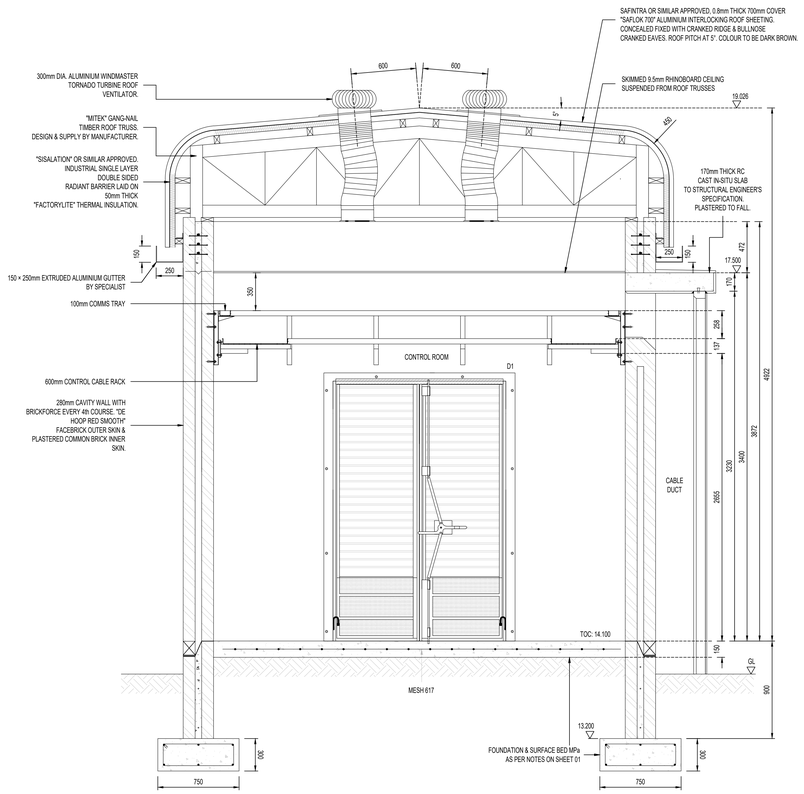
TRANSNET FREIGHT RAIL

YSTERVARK SUBSTATION

RELAY HOUSE BUILDING
DOOR SCHEDULE & DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	D E	0 0 7 4	0 1	0 0	AE

NOTE:
REFER TO NOTES REGARDING FLOOR FINISHES, PAINT FINISHES, ROOF SHEETING, ETC. ON SHEET 01.



SECTION A-A
SCALE 1 : 20

SANITARY WARE - BATTERY ROOM:

1 x (ONE No.) VITREOUS CHINA WHITE GLAZED DRAINER ON WALL BRACKETS, INSTALLED ON DOOR SIDE. DRAINER TO DRAIN DIRECTLY INTO SINK.

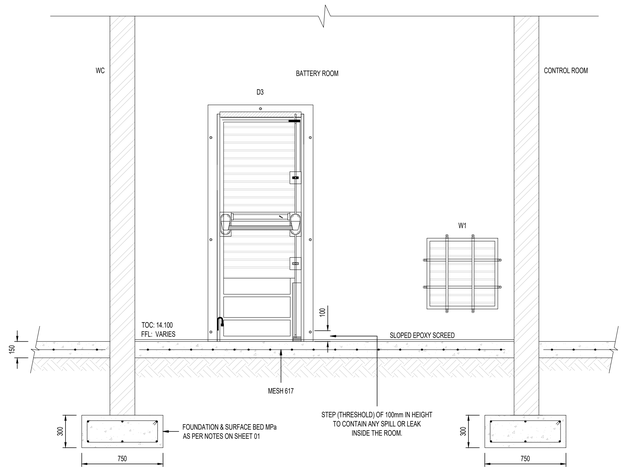
COBRA (519-21) HAND SHOWER, COMPLETE WITH TRIGGER ACTION CONTROL NOZZLE, WALL BRACKET, HOSE, CP WALL MOUNTED ELBOW ACTION TAP, OR APPROVED EQUIVALENT.

WALL MOUNTED ELBOW ACTION TAP WITH THREADED SPOUT.

VAAL (CODE 2360) VITREOUS CHINA GLAZED 600 × 400 × 200mm LABORATORY SINK, COMPLETE WITH WALL BRACKETS, FIXATION BOLTS MATCHING MANUFACTURER'S INSTRUCTIONS, PLUG AND CHAIN, 35mm ACID RESISTANT WASTE PIPE, OR APPROVED EQUIVALENT.

38mm DIA. ACID RESISTANT WASTE PIPE SUPPORTED WITH HALVED PIPE HOLDER TO DISCHARGE WASTE WATER OUTSIDE.

PVC P-TRAP.



SECTION B-B
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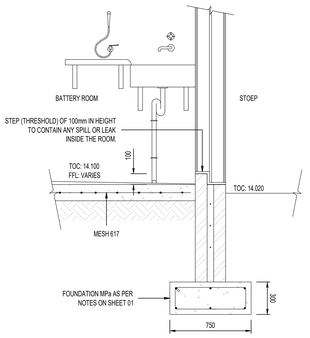
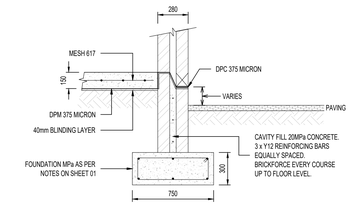
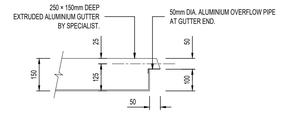


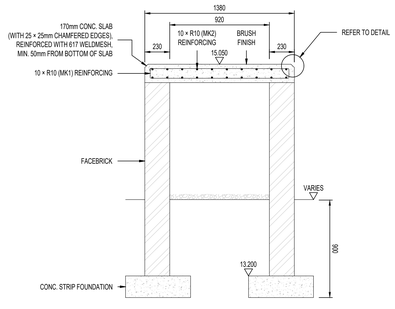
SECTION C-C
SCALE 1 : 20



TYPICAL FLOOR / FOUNDATION SECTION
SCALE 1 : 20

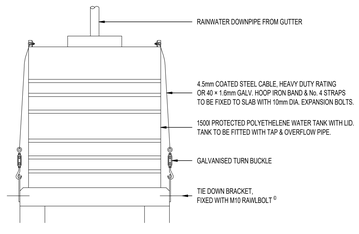


GUTTER OVERFLOW PIPE DETAIL
SCALE 1 : 10

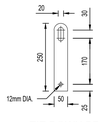


SECTION THROUGH WATER TANK BASE
SCALE 1 : 20

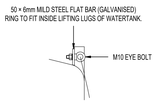
CONCRETE EDGE CORNER DETAIL FOR WATER TANK BASE
SCALE 1 : 5



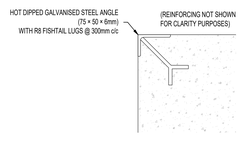
WATER TANK & STRAP DETAIL
SCALE 1 : 20



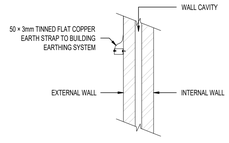
TIE DOWN BRACKET DETAIL
6mm THICK GALVANISED MILD STEEL (4 OFF)
SCALE 1 : 50



TANK SECURING DETAIL
SCALE : NTS



TYPICAL CONCRETE CORNER DETAIL
SCALE 1 : 5



ANTENNA / BRACKET EARTHING DETAIL
SCALE 1 : 20

REINFORCEMENT SCHEDULE					
MK	TYPE & SIZE	CUTTING LENGTH	SHAPE CODE	QTY	BENDING REMARKS
1	R10	2950	60	10	1280 x 90
2	R10	2900	60	10	1280 x 70

NOTES

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DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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NAME	M TRUSCOTT	DATE		
SIGNATURE		21	09	10
REG. NUMBER	PrArch 6935			
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TRANSNET FREIGHT RAIL

YSTERVARK SUBSTATION

RELAY HOUSE BUILDING
SECTIONS & DETAILS

PROJECT NUMBER			OD		FBS		DIS	TYPE	DRAWING NO.			SHEET		REV	ID
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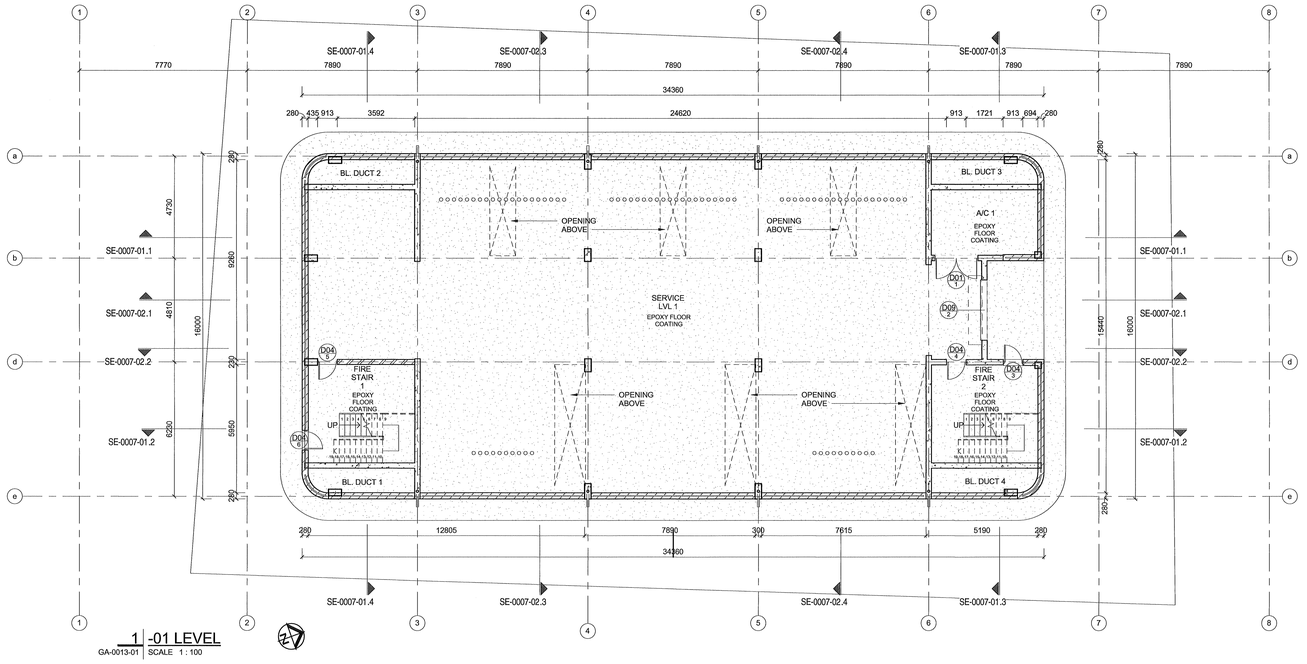
SCALE : A0



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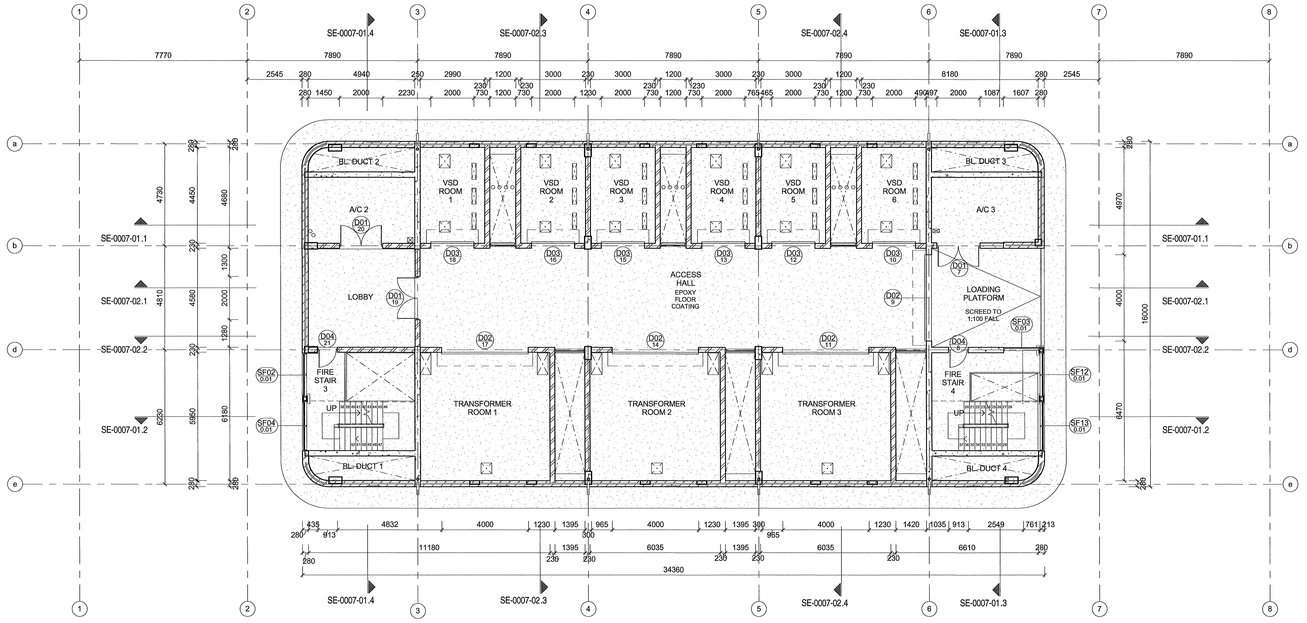
GA-0013-01 | SCALE 1 : 100



2 | 00 LEVEL
GA-0013-01 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0036-02	SECTION DETAILS
1924701-2-510-A-DE-0036-01	SECTION DETAILS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-DE-0035-01	ELEVATIONS

REFERENCE DRAWINGS

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DESIGNED	BE	B.E.	31 01 17
CHECKED	DT		31 01 17

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NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	

SCALE:	1:100
	A0

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
GENERAL ARRANGEMENT

PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.				SHEET	REV	ID
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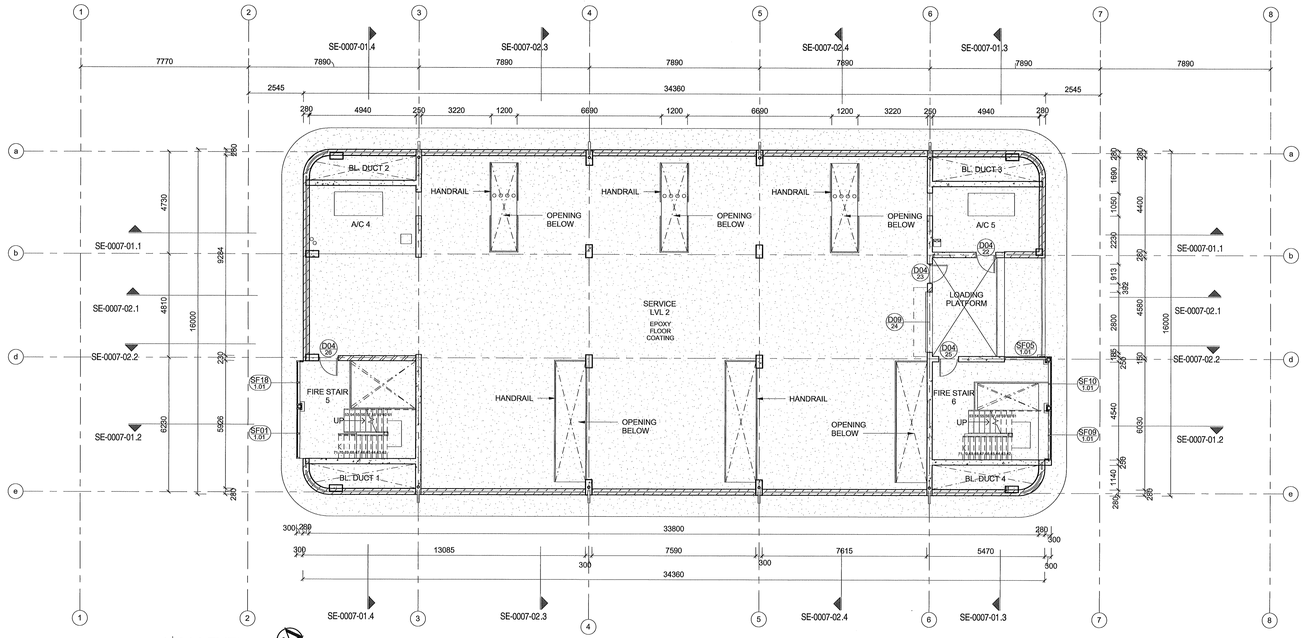

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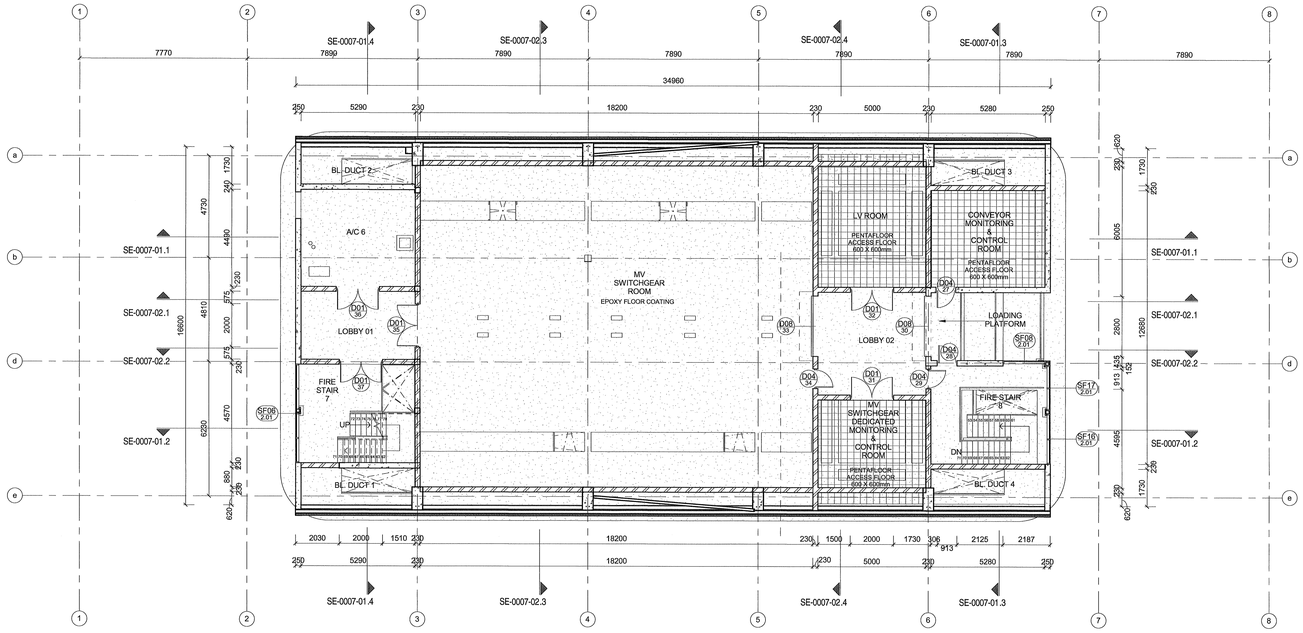

2 | 02 LEVEL
GA-0013-02 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0036-02	SECTION DETAILS
1924701-2-510-A-DE-0036-01	SECTION DETAILS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT
1924701-2-510-A-DE-0035-01	ELEVATIONS

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CHECKED	DT		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

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8001
TEL: 021 940 1999
FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
GENERAL ARRANGEMENT

PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.			SHEET	REV	ID
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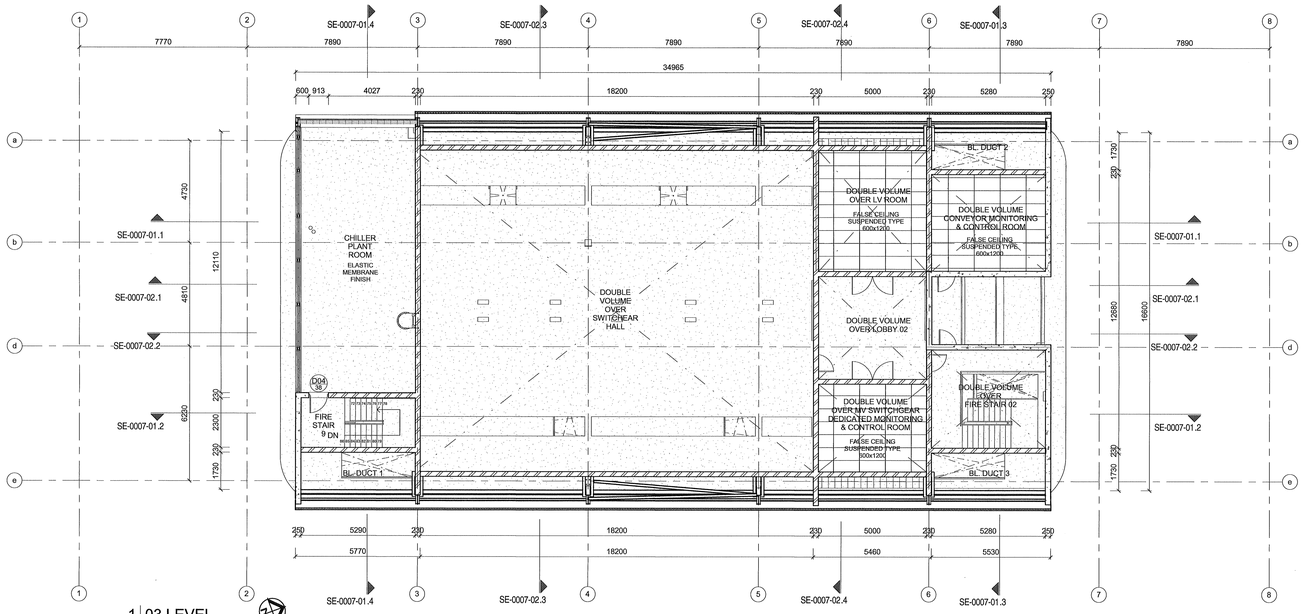

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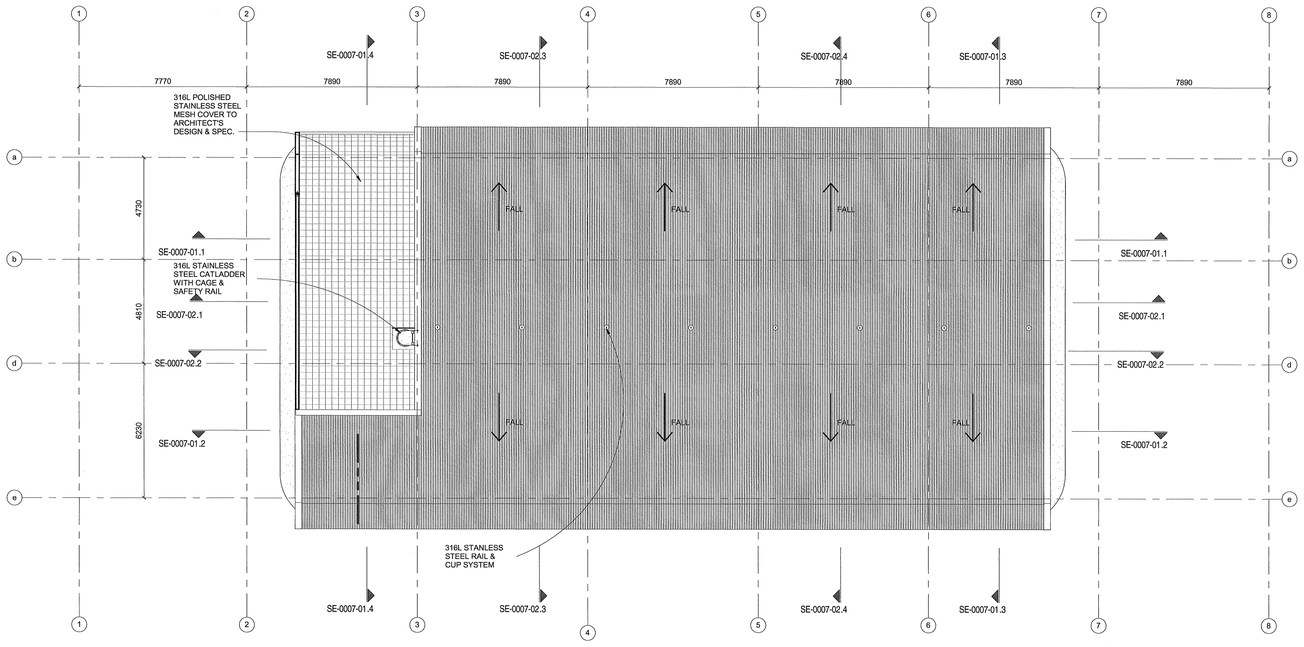

2 | ROOF PLAN
GA-0013-03 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM
TRANSNET

1924701-2-510-A-DE-0036-02	SECTION DETAILS
1924701-2-510-A-DE-0036-01	SECTION DETAILS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT
1924701-2-510-A-DE-0035-01	ELEVATIONS
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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TITLE	NAME	SIGN	DATE
DRAWN	KK		31 01 17
CHECKED	DT		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH			
NAME	DEREK THOMAS		DATE
SIGNATURE			31 01 17
REG. NUMBER	7343		
SCALE:	1:100	A0	

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TEL: 021 940 1999
FAX: 086 677 3455

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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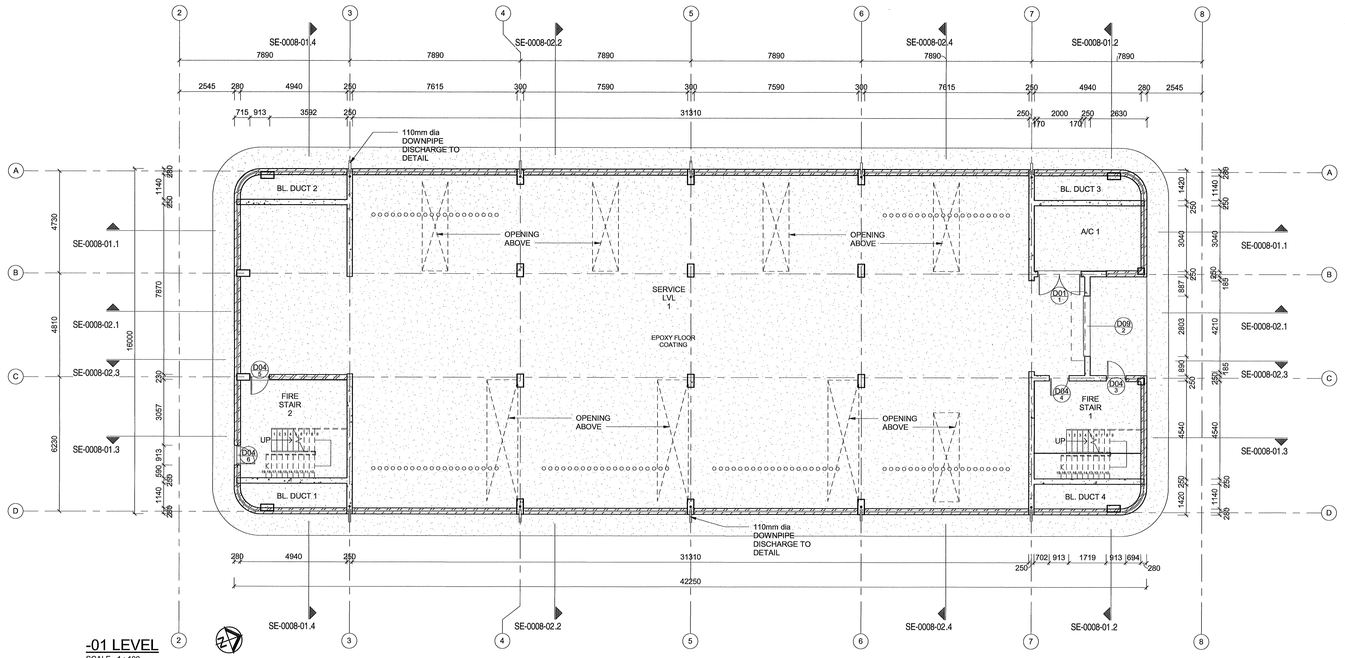
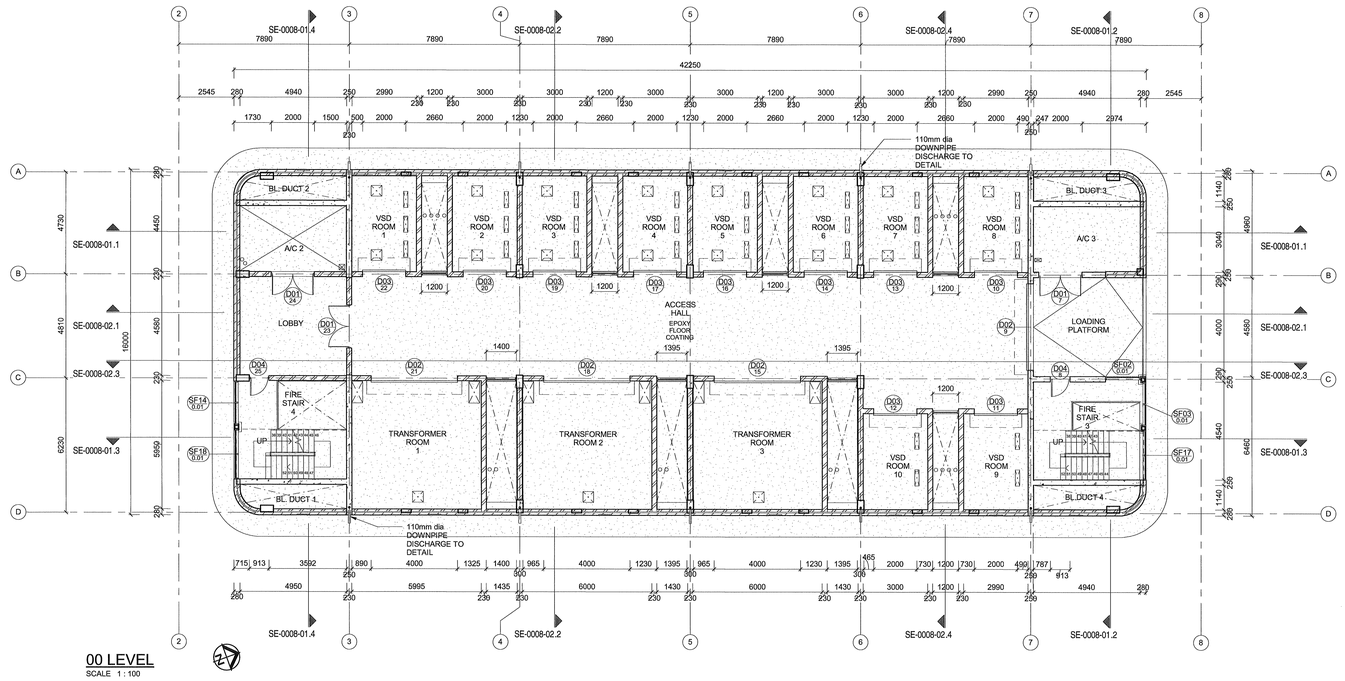


-01 LEVEL

SCALE 1 : 100



00 LEVEL

SCALE 1 : 100

MASTER
02 FEB 2017
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0038-02	SECTION DETAILS
1924701-2-510-A-DE-0038-01	SECTION DETAILS
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-GA-0008-02	SECTIONS
1924701-2-510-A-GA-0008-01	SECTIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED
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TYGER WATERFRONT
CARL CRONJE DRIVE

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FAX: +27 (0)21 950 7502
REG. No. 1998/006626/07

NO	DESCRIPTION	BY	CHK	APP	DD	DATE
00	ISSUE FOR CONSTRUCTION	KK			DT	31/01/2017

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	KK	31 01 17
CHECKED	RS	RS	31 01 17
DESIGNED	BE	BE	31 01 17
CHECKED	DT	DT	31 01 17

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7543	
SCALE:	1:100	A0

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TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000609/06
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163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
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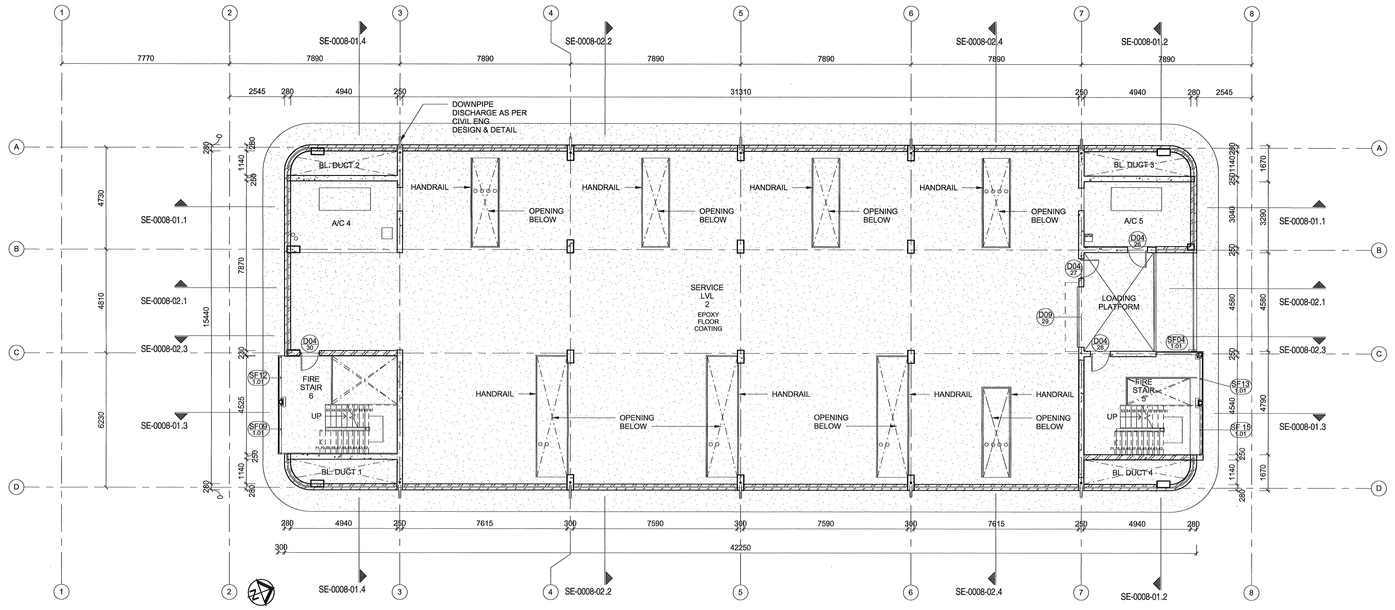
FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	GA	0014	01	00	AE



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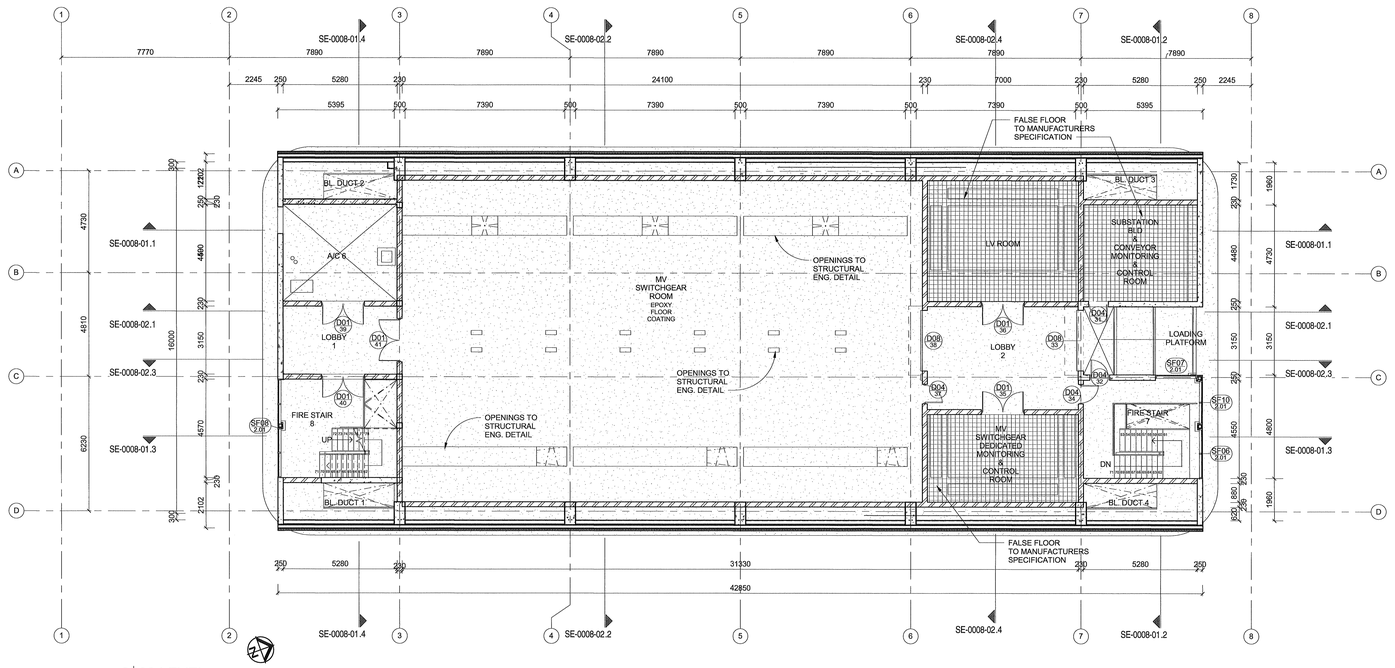
GA-0014-02 | SCALE 1 : 100



2 | 02 LEVEL
GA-0014-02 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0038-02	SECTION DETAILS
1924701-2-510-A-DE-0038-01	SECTION DETAILS
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-GA-0008-02	SECTIONS
1924701-2-510-A-GA-0008-01	SECTIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
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00	ISSUE FOR CONSTRUCTION	KK	RE	DT	31/01/2017

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK		31 01 17
CHECKED	RS		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000905/06
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
GENERAL ARRANGEMENT

PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.			SHEET		REV	ID
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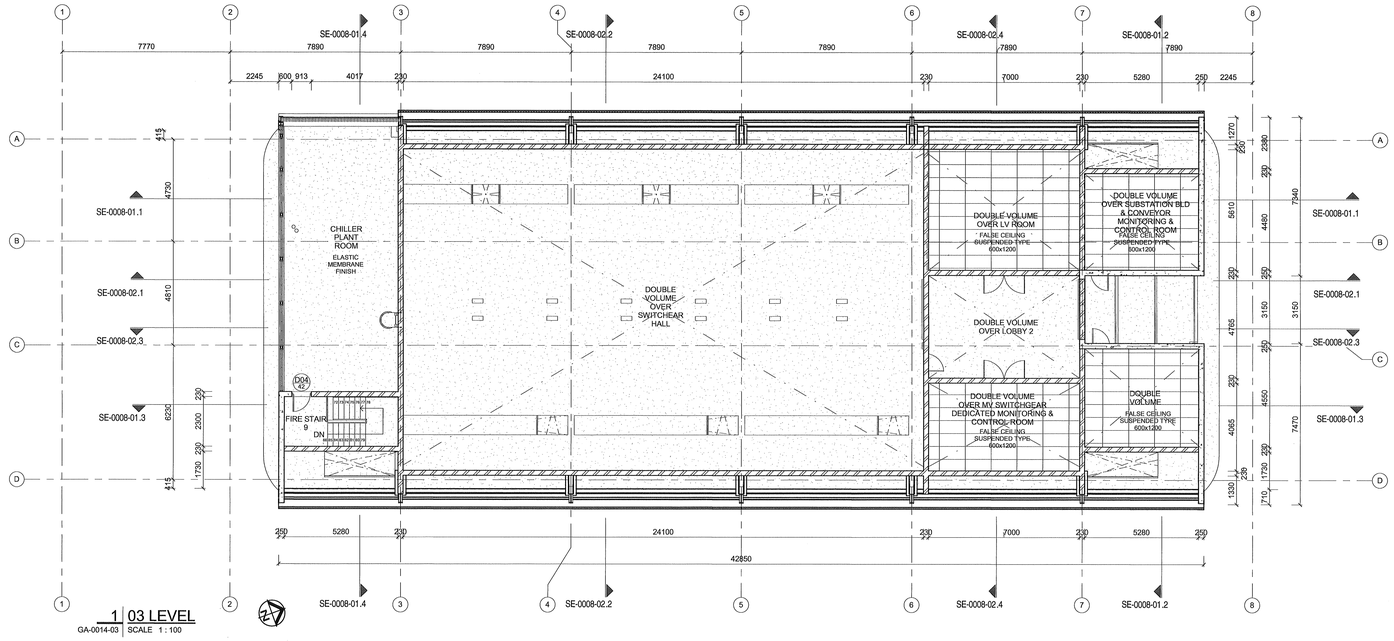

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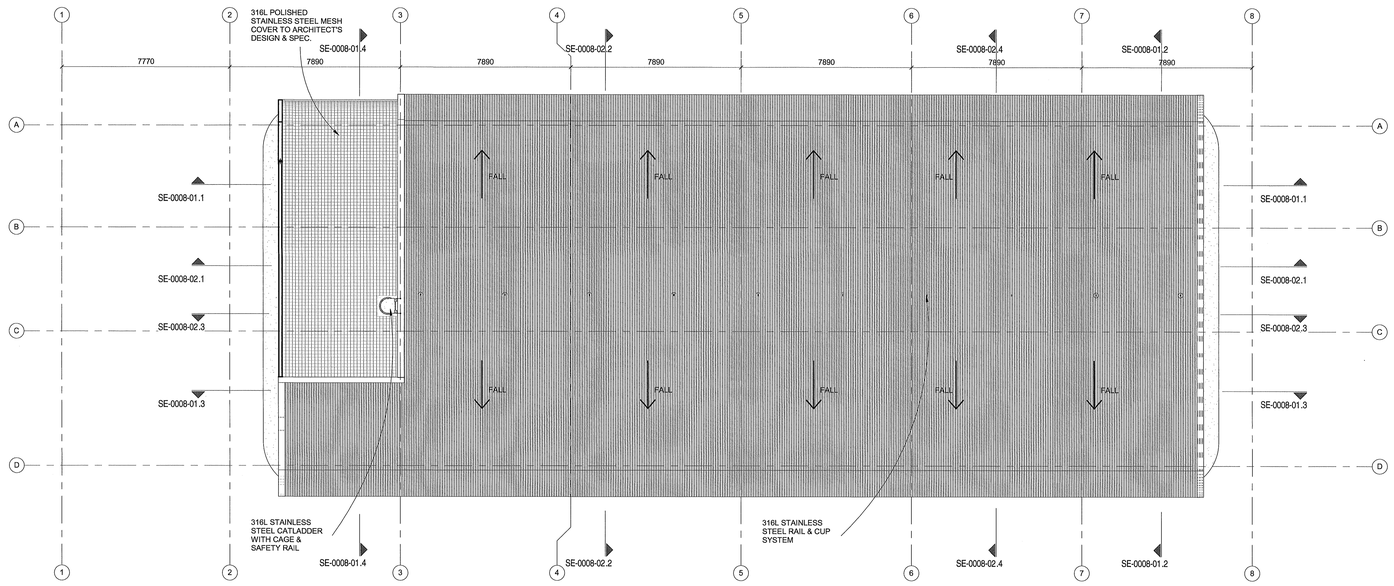
GA-0014-03 | SCALE 1 : 100



2 | ROOF PLAN
GA-0014-03 | SCALE 1 : 100

MASTER
02 FEB 2017
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TRANSNET

1924701-2-510-A-DE-0038-02	SECTION DETAILS
1924701-2-510-A-DE-0038-01	SECTION DETAILS
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-GA-0008-02	SECTIONS
1924701-2-510-A-GA-0008-01	SECTIONS
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NOTES

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK		31 01 17
CHECKED	RS		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH	
NAME	DEREK THOMAS
DATE	31 01 17
SIGNATURE	
REG. NUMBER	7343
SCALE:	1:100 A0

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FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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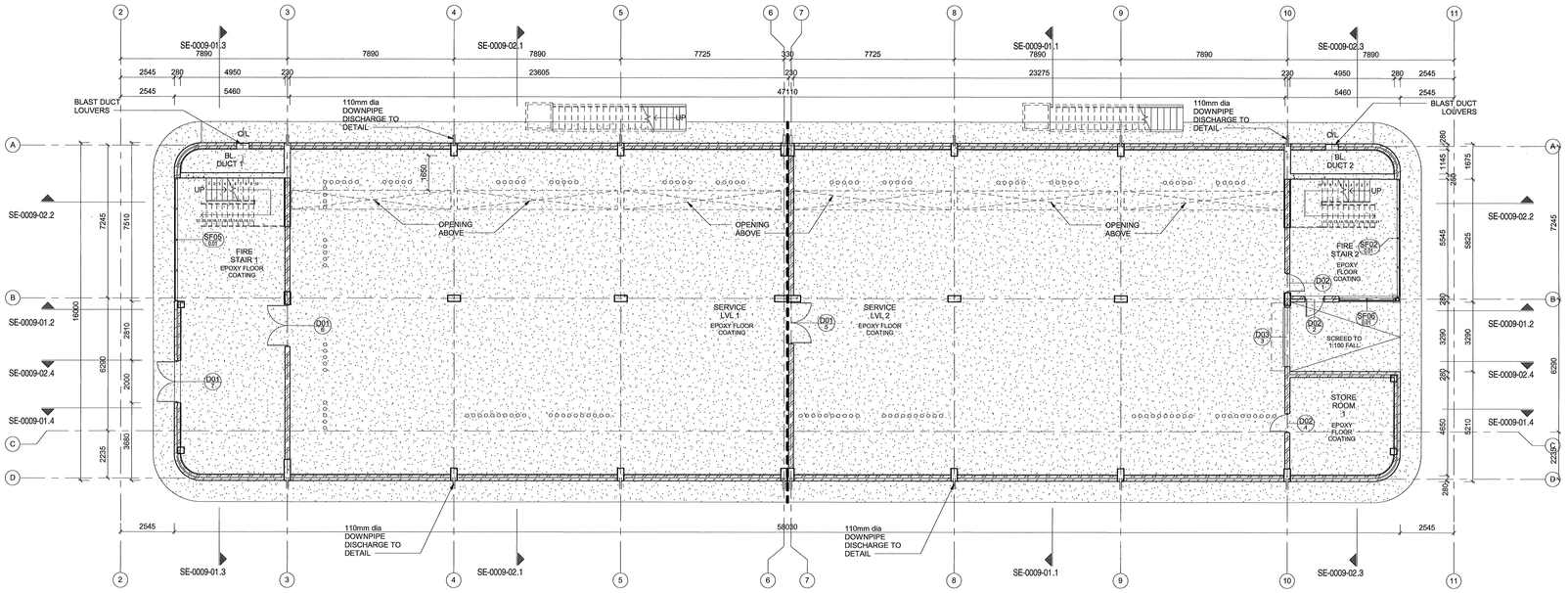

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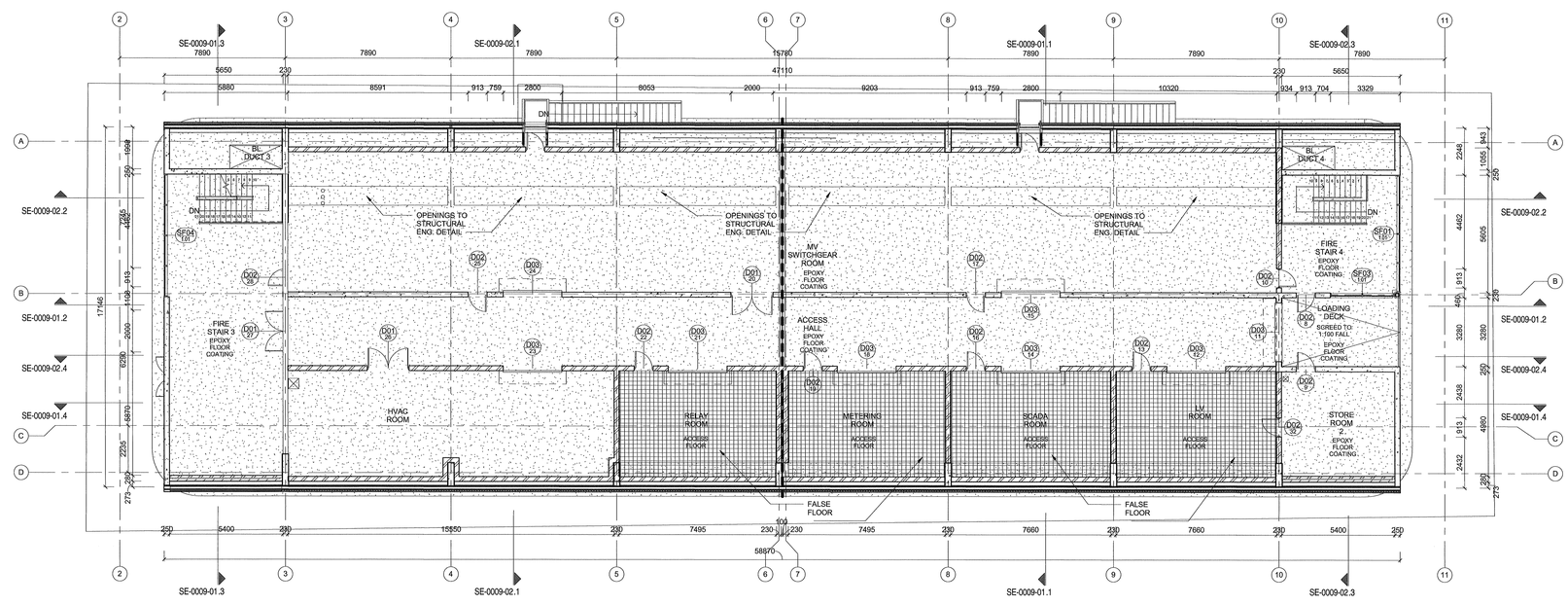
GA-0015-01 | SCALE 1 : 100



2 | 01 LEVEL
GA-0015-01 | SCALE 1 : 100

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02 FEB 2017
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TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0039-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED
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FAX: +27 (0)21 950 7502
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NO	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUE FOR CONSTRUCTION	KK	RR	DT	31/01/2017

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK		31 01 17
CHECKED	RS		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH	
NAME	DEREK THOMAS
DATE	
SIGNATURE	
REG. NUMBER	7343
SCALE:	1:100

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000009/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1099
FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
GENERAL ARRANGEMENT

PROJECT NUMBER								OD	FBS			DIS	TYPE	DRAWING NO.			SHEET	REV	ID
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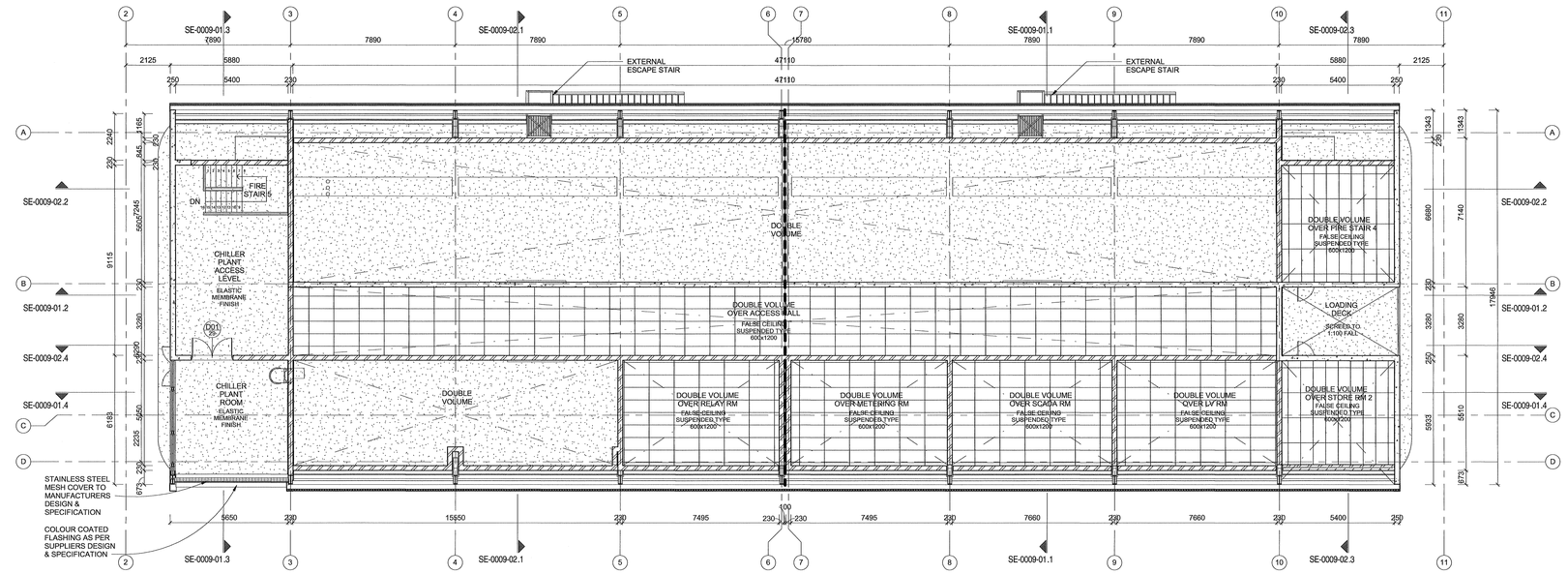

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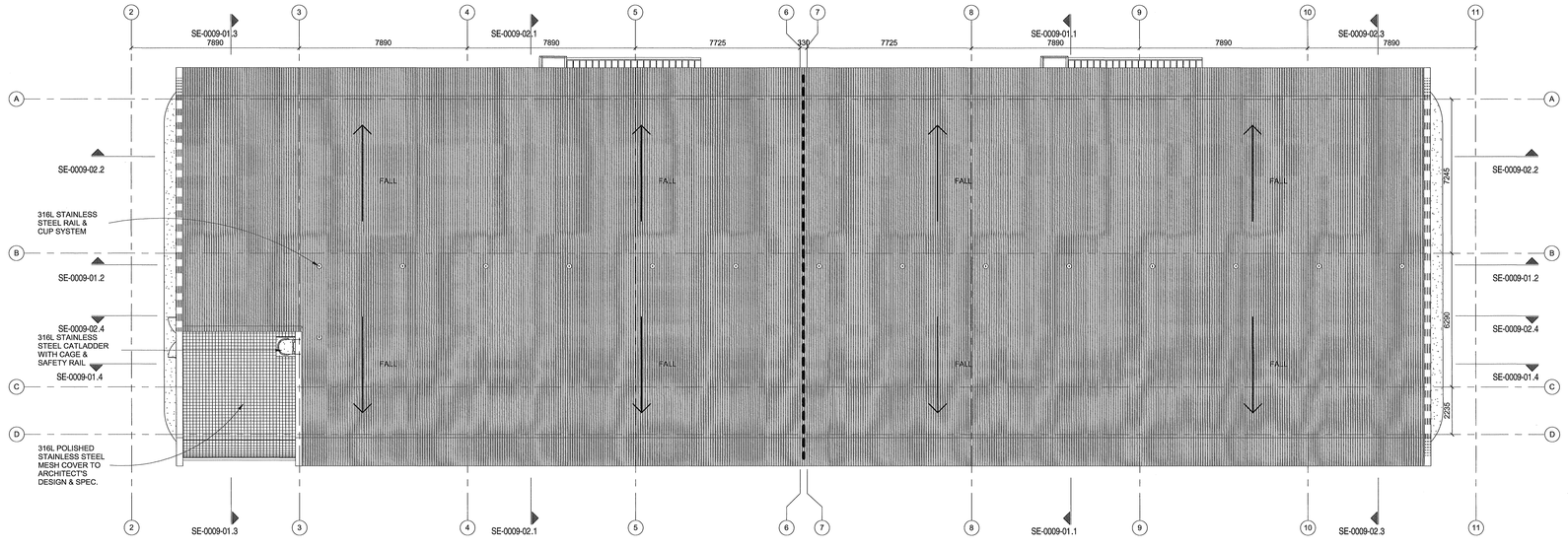

2 | ROOF PLAN
GA-0015-02 | SCALE 1 : 100

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02 FEB 2017
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NOTES

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DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0039-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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TYGER WATERFRONT
CARL CRONJE DRIVE

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FAX: +27 (0)21 950 7502
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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK	K.K.	31 01 17
CHECKED	RS	RS	31 01 17
DESIGNED	BE	BE	31 01 17
CHECKED	DT	DT	31 01 17

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000906/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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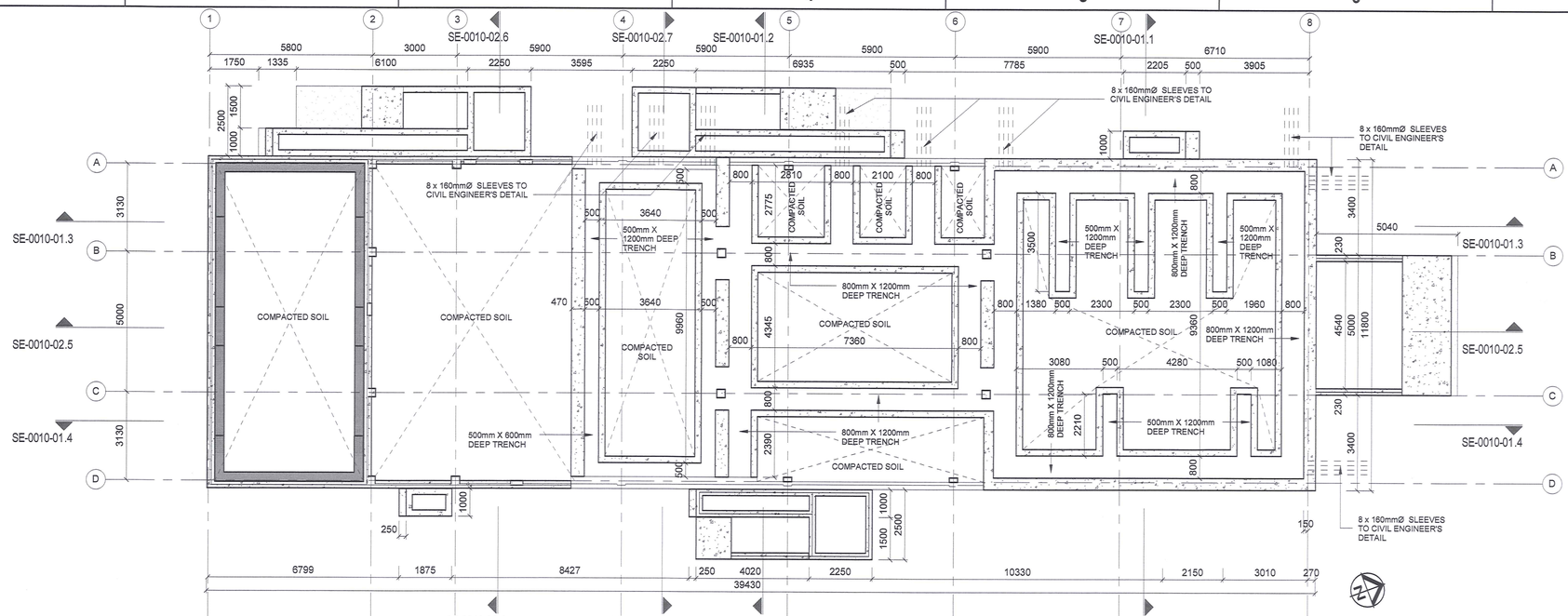

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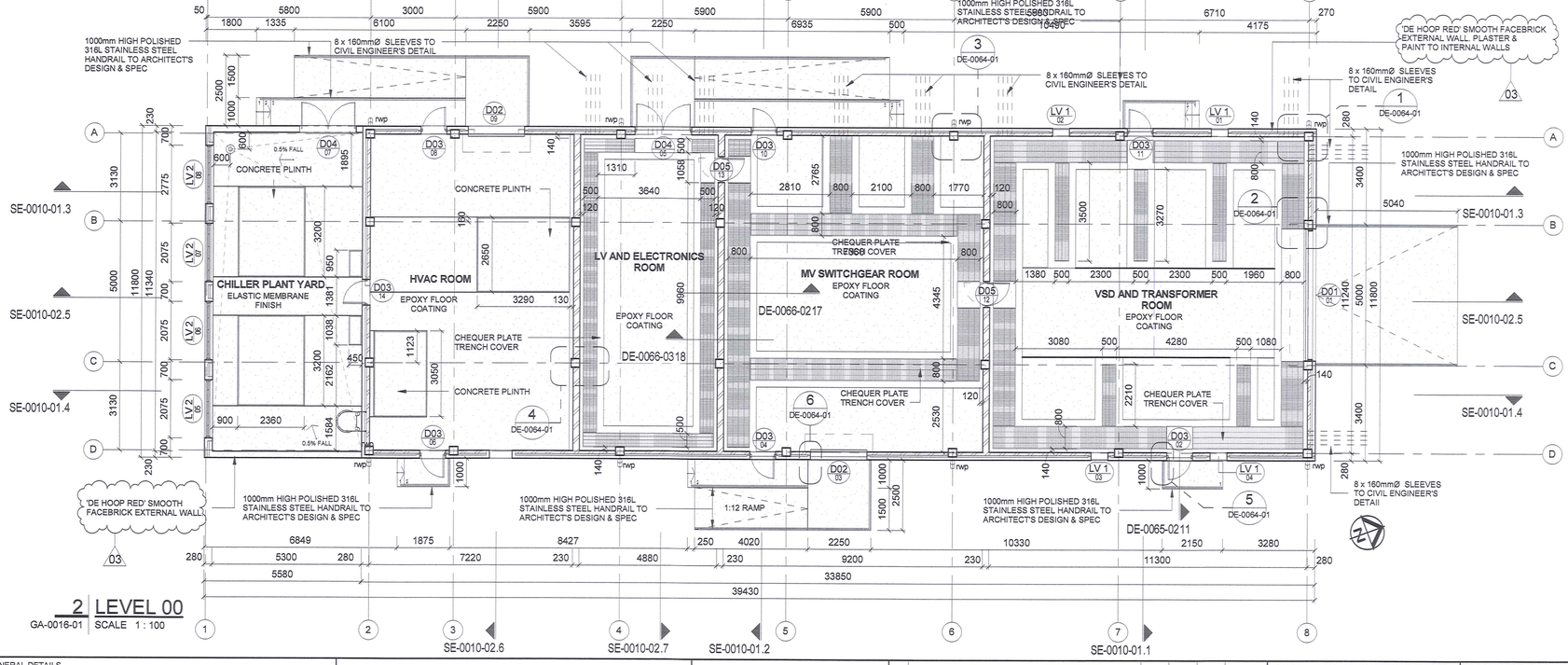
GA-0016-01 | SCALE 1 : 100



2 LEVEL 00

GA-0016-01 | SCALE 1 : 100

REFER TO RESPECTIVE ELECTRICAL DOCUMENTATION AND DRAWINGS. AWAITING DETAIL INFORMATION ON EARTHING AND LPS SYSTEM, AS WELL AS APPLICABLE MV AND LV EQUIPMENT.

- CONSTRUCTION OF BUILDING MAY NOT COMMENCE UNTIL SUCH TIME THE EARTH GRID/MAT, AND ASSOCIATED INFRASTRUCTURE, HAS BEEN INSTALLED, TESTED AND ACCEPTED.
- REFER TO ELECTRICAL AND CIVIL DRAWINGS. THE EARTHING AND LPS DESIGNS TO BE FINALISED FIRST, IN ORDER TO CONFIRM THE SUITABILITY OF CONCRETE SLABS FOR THE EXTERIOR RAMPS AND LANDINGS.

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0066-03	GENERAL DETAILS
1924701-2-510-A-DE-0066-02	GENERAL DETAILS
1924701-2-510-A-DE-0066-01	GENERAL DETAILS
1924701-2-510-A-DE-0066-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0065-01	ROOF DETAILS
1924701-2-510-A-DE-0064-01	PLAN DETAILS
1924701-2-510-A-SC-0041-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0035-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0034-01	DOOR SCHEDULE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-02	GENERAL ARRAGEMENT (ROOF PLAN)

REFERENCE DRAWINGS

NOTES

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REG. No. 1968/008628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
03	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/05
	FACEBRICK SPECIFICATION AMENDED				2019/05/05
02	HOLD POINTS AMENDED	RU	JPK	JPK	2019/02/04
01	ISSUED FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	ELECTRICAL NOTES ADDED				2018/06/22
	CHILLER PLANT YARD FULLBORE ADDED.				2018/06/22
	RAINWATER DOWN PIPE AMENDED AND ADDITIONAL ADDED.				2018/06/22
	OVERALL BUILDING WIDTH DIMENSION AMENDED.				2018/06/22
	DETAIL REFERENCES ADDED ON PLAN				2018/06/22
00	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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TITLE	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK
SIGNATURE	06 05 19
REG. NUMBER	24743231
SCALE:	1:100 A1

MASTER
07 MAY 2019
AECOM TRANSNET

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS): REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

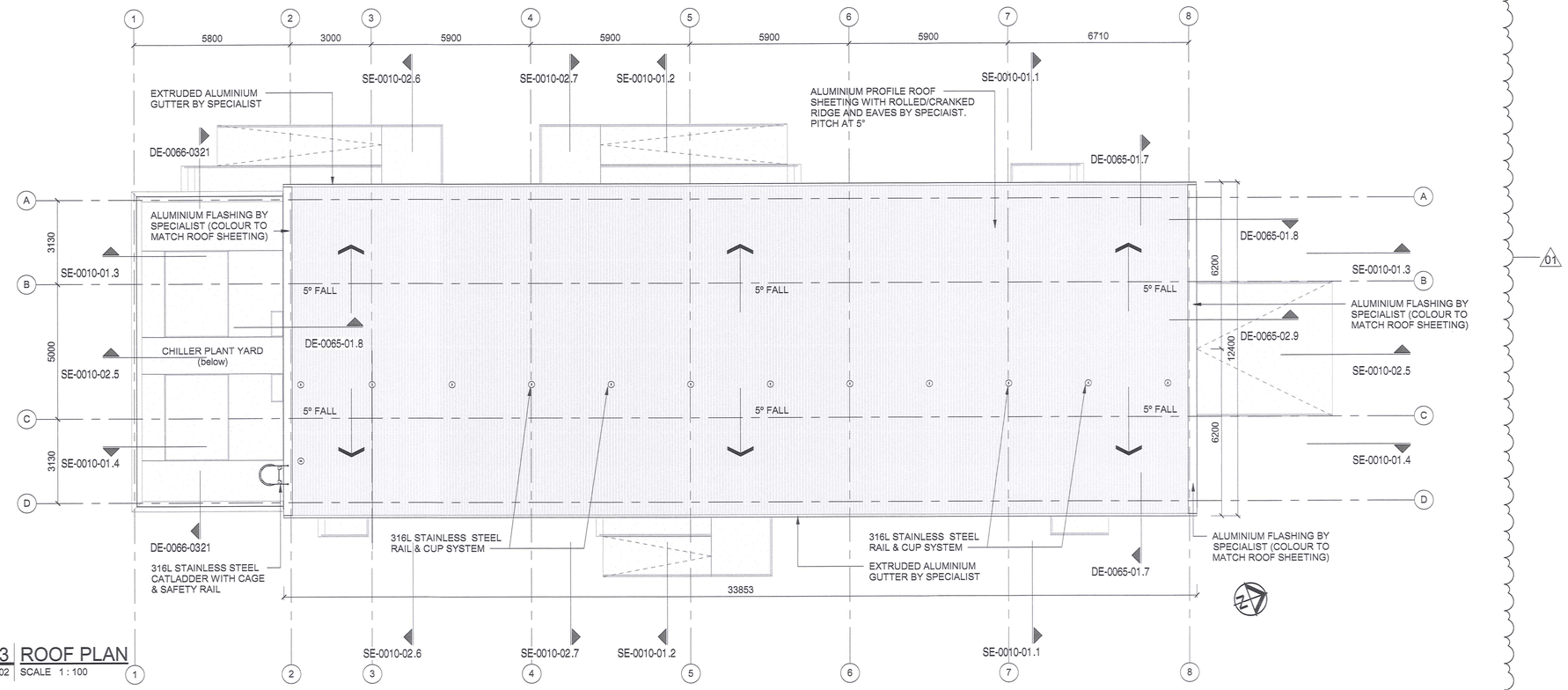
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	GA	0016	01	03	AE

- REFER TO RESPECTIVE ELECTRICAL DOCUMENTATION AND DRAWINGS. AWAITING DETAIL INFORMATION ON EARTHING AND LPS SYSTEM, AS WELL AS APPLICABLE MV AND LV EQUIPMENT.
- CONSTRUCTION OF BUILDING MAY NOT COMMENCE UNTIL SUCH TIME THE EARTH GRID/MAT, AND ASSOCIATED INFRASTRUCTURE, HAS BEEN INSTALLED, TESTED AND ACCEPTED.

01



3 ROOF PLAN

GA-0016-02 | SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0066-03	GENERAL DETAILS
1924701-2-510-A-DE-0065-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0065-01	ROOF DETAILS
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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AECOM

CAPE TOWN OFFICE
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TYGER WATERFRONT
CARL CRONJE DRIVE

TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION :	RU			2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	ELECTRICAL NOTES ADDED				2018/06/22
00	ISSUED FOR CONSTRUCTION	RU	DT	DT	2018/04/20

REVISIONS

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	RU		22 06 18
CHECKED	KK		22 06 18
DESIGNED	DT		22 06 18
CHECKED	DT		22 06 18

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		22 06 18
REG. NUMBER	7343	
SCALE:	1:100	A1

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	GA	0016	02	01	AE

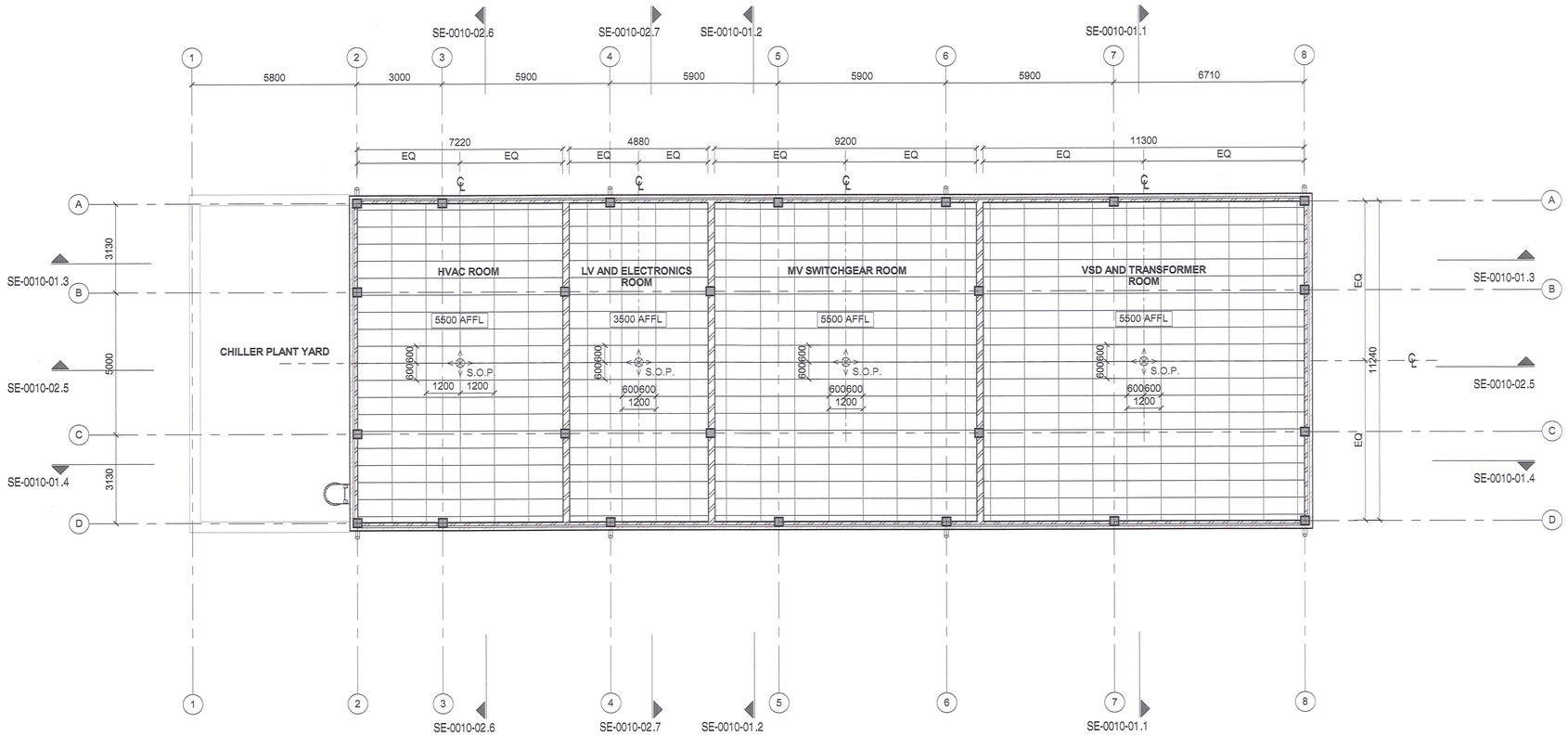
MASTER
22 JUN 2018
AECOM
TRANSNET

LEGEND

CEILING:

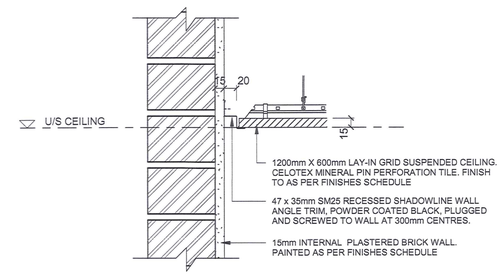
1200mm X 600mm LAY-IN GRID SUSPENDED CEILING. CELOTEX MINERAL PIN PERFORATION TILE.

- REFER TO RESPECTIVE ELECTRICAL AND MECHANICAL DOCUMENTATION FOR LIGHTING LAYOUT AND HVAC/GRILL LAYOUT



1 CEILING PLAN

GA-0016-03 | SCALE 1 : 100



2 CEILING SHADOWLINE DETAIL

GA-0016-03 | SCALE 1 : 5

MASTER
22 JUN 2018
AECOM
TRANSNET

1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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.

AECOM

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CARL CRONJE DRIVE

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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
00	FIRST ISSUE FOR CONSTRUCTION	RU	DT	DT	2019/05/22

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	RU		22 06 18
CHECKED	KK		22 06 18
DESIGNED	DT		22 06 18
CHECKED	DT		22 06 18

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		22 06 18
REG. NUMBER	7343	
SCALE:	1:100	A1

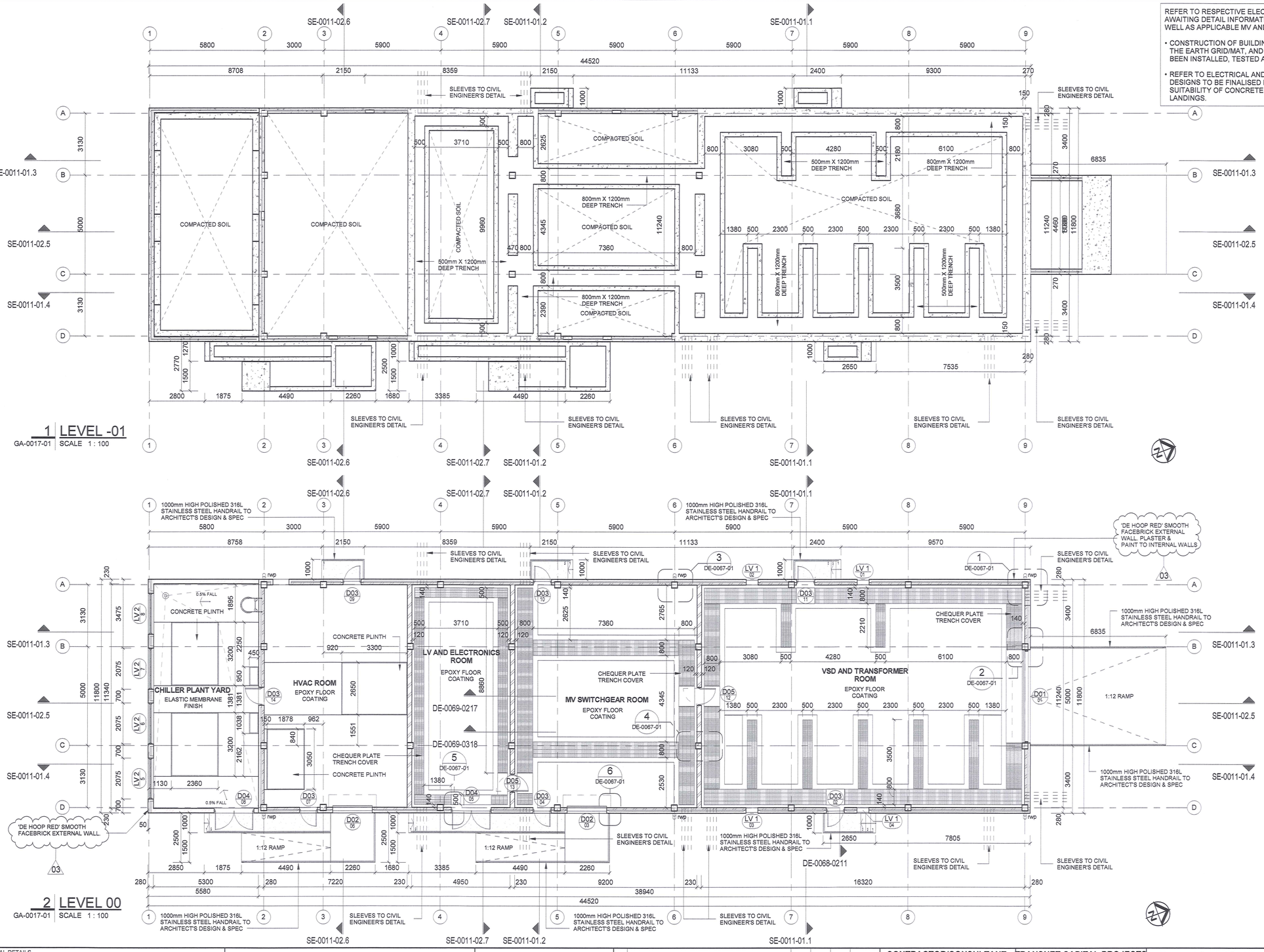
Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M CEILING PLAN

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	GA	0016	03	00	AE



DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0069-03	GENERAL DETAILS
1924701-2-510-A-DE-0069-02	GENERAL DETAILS
1924701-2-510-A-DE-0069-01	GENERAL DETAILS
1924701-2-510-A-DE-0068-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0068-01	ROOF DETAILS
1924701-2-510-A-DE-0067-01	PLAN DETAILS
1924701-2-510-A-SC-0040-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0037-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0036-01	DOOR SCHEDULE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-DE-0052-01	ELEVATIONS
1924701-2-510-A-GA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)

REFERENCE DRAWINGS

NOTES

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AECOM
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TYGER WATERFRONT
CARL CRONJE DRIVE
TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHK	APP'D	DATE
03	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
02	HOLD POINTS AMENDED	RU	JPK	JPK	2019/02/04
01	ISSUE FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFFERENCES ADDED				2018/06/22
	ELECTRICAL NOTES ADDED				2018/06/22
	CHILLER PLANT YARD FULLBORE ADDED				2018/06/22
	DETAIL REFERENCES ADDED ON PLAN				2018/06/22
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

REVISIONS

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CONTRACTOR/CONSULTANT				
TITLE	NAME	SIGN	DATE	
DRAWN	RU		06	05 19
CHECKED	KK		06	05 19
DESIGNED	JPK		06	05 19
CHECKED	JPK		06	05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	R KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:100	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS): REG. NO. 1990/000900/06
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8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

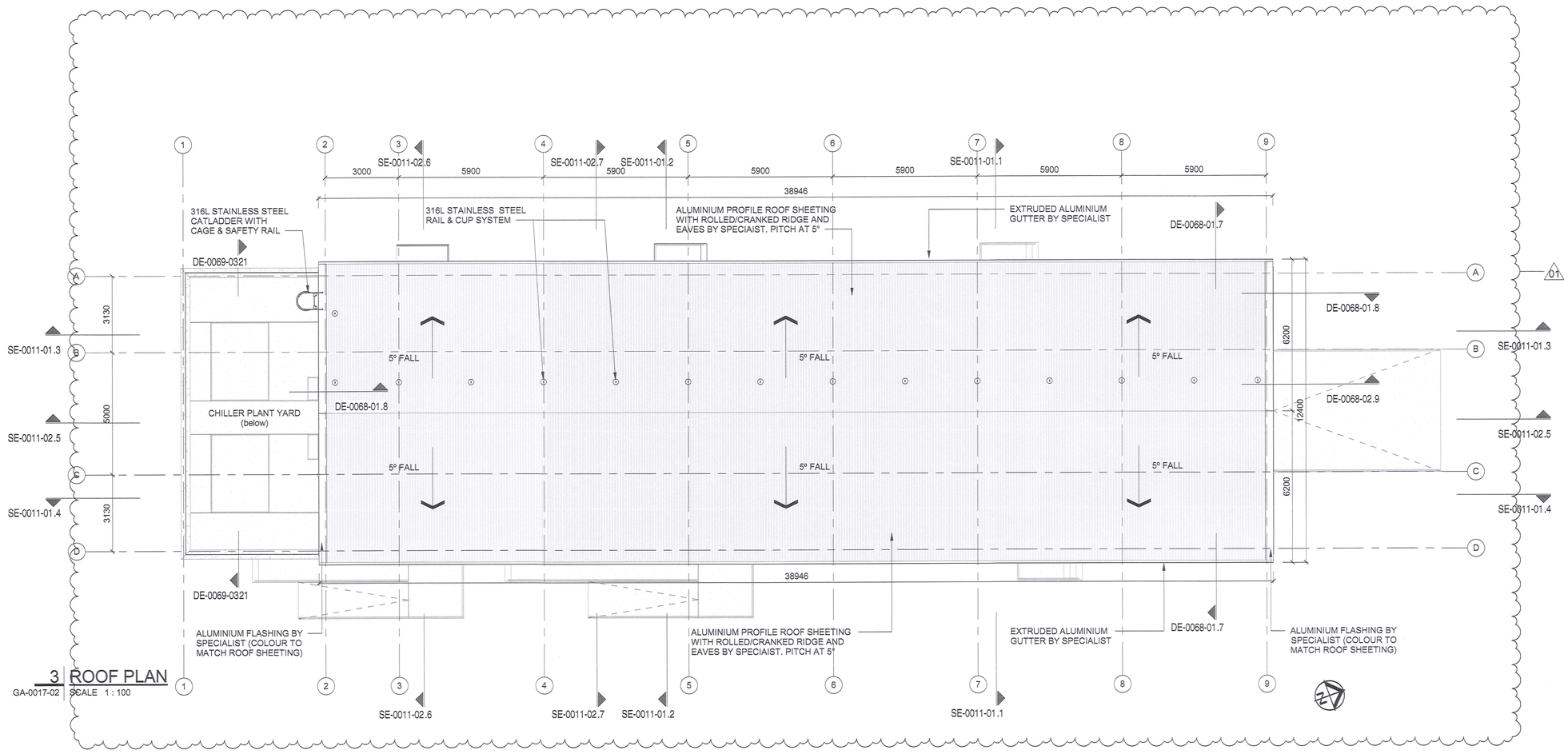
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	GA	0017	01	03	AE

MASTER
07 MAY 2019
AECOM TRANSNET

- REFER TO RESPECTIVE ELECTRICAL DOCUMENTATION AND DRAWINGS. AWAITING DETAIL INFORMATION ON EARTHING AND LPS SYSTEM, AS WELL AS APPLICABLE MV AND LV EQUIPMENT.
- CONSTRUCTION OF BUILDING MAY NOT COMMENCE UNTIL SUCH TIME THE EARTH GRID/MAT, AND ASSOCIATED INFRASTRUCTURE, HAS BEEN INSTALLED, TESTED AND ACCEPTED.

01



3 ROOF PLAN

GA-0017-02 SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0069-03	GENERAL DETAILS
1924701-2-510-A-DE-0068-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0068-01	ROOF DETAILS
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-DE-0062-01	ELEVATIONS
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUE FOR CONSTRUCTION :	RU	DT	DT	2018/06/22
	ELECTRICAL NOTES ADDED				2018/06/22
	DETAIL REFERENCES ADDED ON PLAN				2018/06/22
00	ISSUE FOR CONSTRUCTION	RU	DT	DT	2018/04/20

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	RU		22 06 18
CHECKED	KK		22 06 18
DESIGNED	DT		22 06 18
CHECKED	DT		22 06 18

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		22 06 18
REG. NUMBER	7343	
SCALE:	1:100	A1

MASTER
22 JUN 2018
AECOM TRANSNET

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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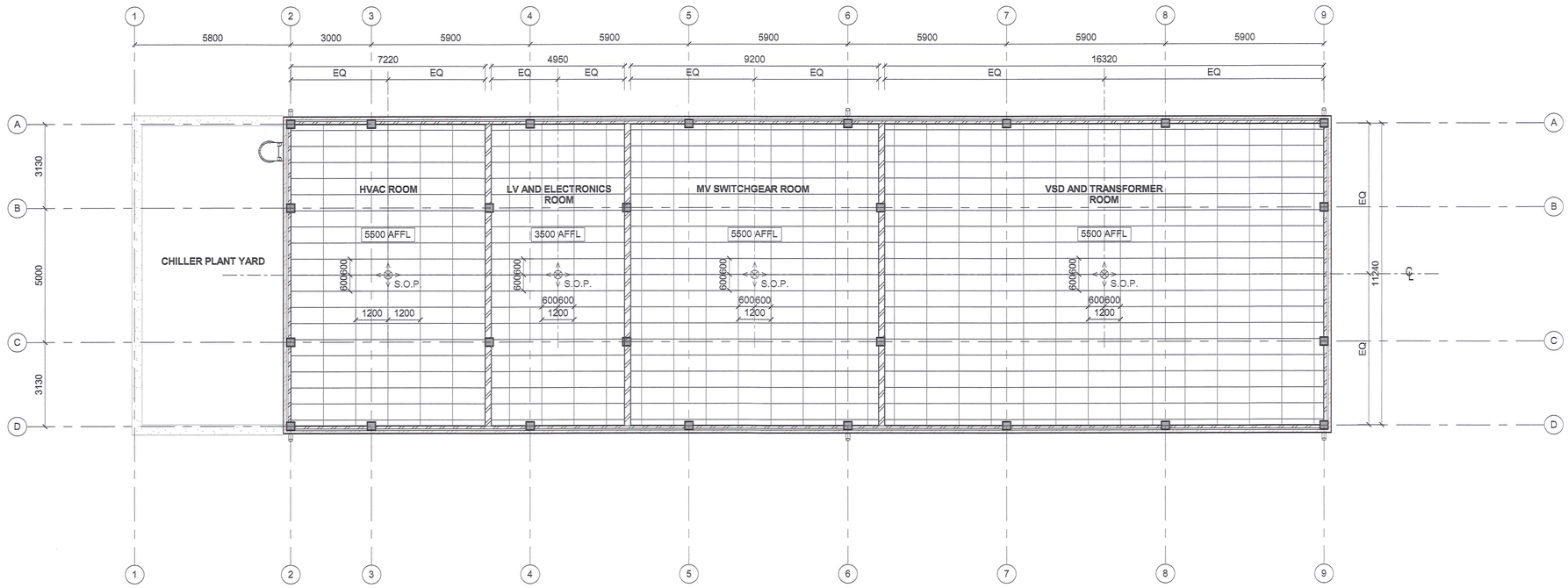
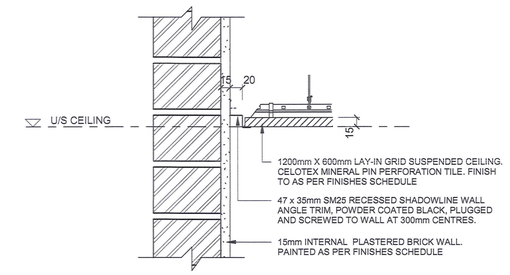
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N GENERAL ARRANGEMENT

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	GA	0017	02	01	AE



1 CEILING PLAN
GA-0017-03 SCALE 1 : 100



2 CEILING SHADOWLINE DETAIL
GA-0017-03 SCALE 1 : 5

LEGEND

CEILING:

1200mm X 600mm LAY-IN GRID SUSPENDED CEILING. CELOTEX MINERAL PIN PERFORATION TILE.

- REFER TO RESPECTIVE ELECTRICAL AND MECHANICAL DOCUMENTATION FOR LIGHTING LAYOUT AND HVAC/GRILL LAYOUT

MASTER
22 JUN 2018
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-DE-0062-01	ELEVATIONS
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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AECOM
CAPE TOWN OFFICE
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TYGER WATERFRONT
CARL CRONJE DRIVE

TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
00	FIRST ISSUE FOR CONSTRUCTION	RU	DT	DT	2018/06/22

REVISIONS

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	RU		22 06 18
CHECKED	KK		22 06 18
DESIGNED	DT		22 06 18
CHECKED	DT		22 06 18

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		22 06 18
REG. NUMBER	7343	
SCALE:	1:100	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

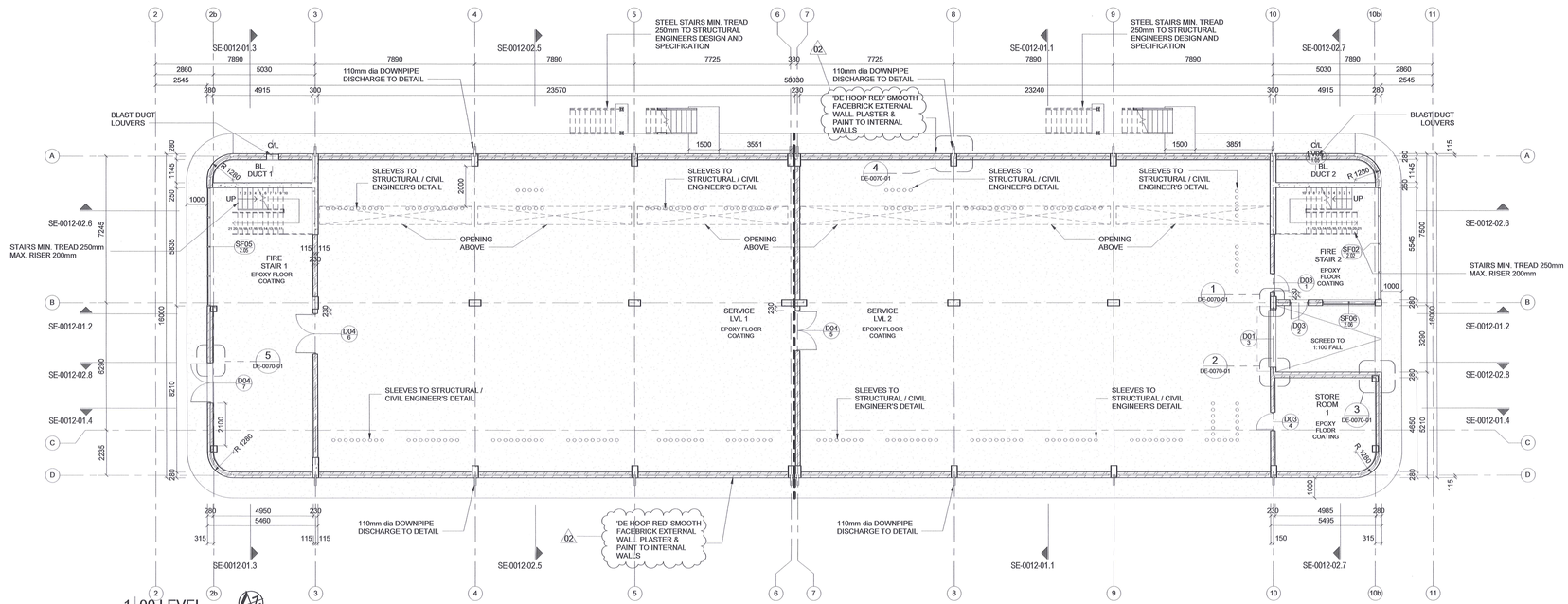
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N CEILING PLAN

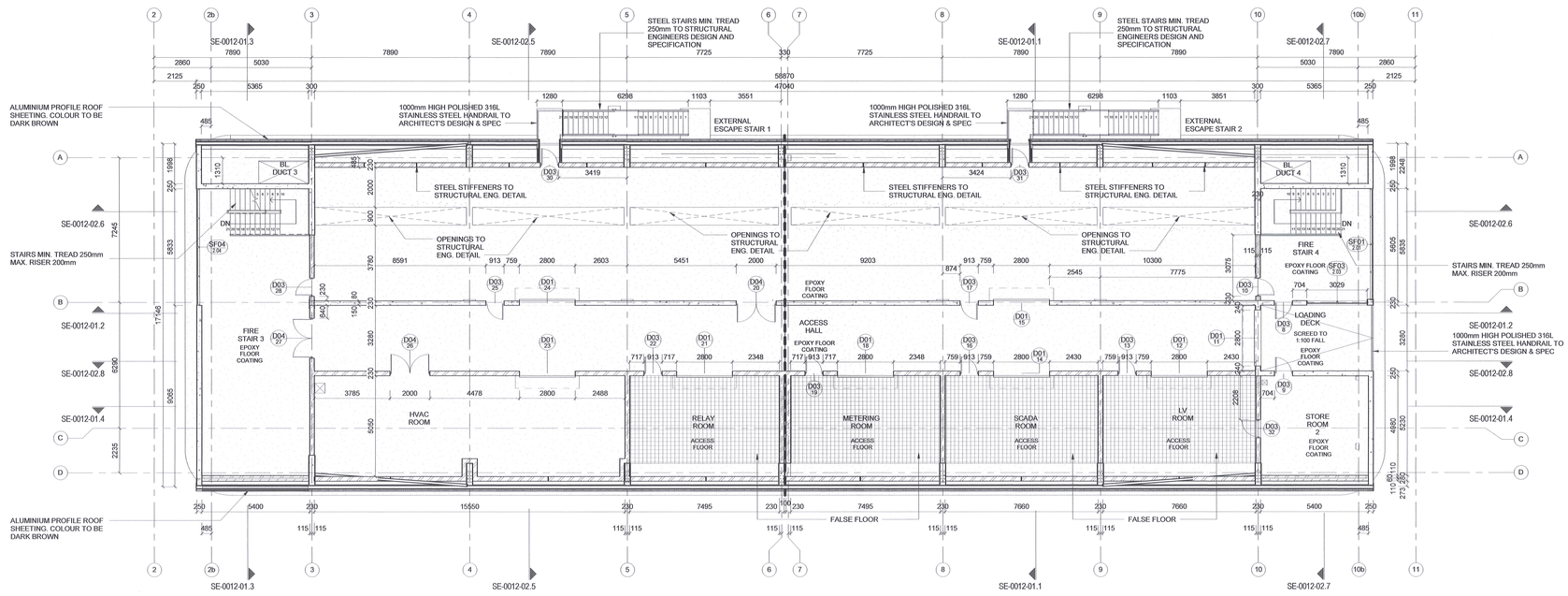
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	GA	0017	03	00	AE

REFER TO RESPECTIVE ELECTRICAL DOCUMENTATION AND DRAWINGS. AWAITING DETAIL INFORMATION ON EARTHING AND LPS SYSTEM, AS WELL AS APPLICABLE MV AND LV EQUIPMENT.

- CONSTRUCTION OF BUILDING MAY NOT COMMENCE UNTIL SUCH TIME THE EARTH GRID/MAT, AND ASSOCIATED INFRASTRUCTURE, HAS BEEN INSTALLED, TESTED AND ACCEPTED.



1 | 00 LEVEL
GA-0018-01 | SCALE 1 : 100



2 | 01 LEVEL
GA-0018-01 | SCALE 1 : 100

MASTER
07 MAY 2019
AECOM

1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0012-02	SECTIONS
1924701-2-510-A-SE-0012-01	SECTIONS
1924701-2-510-A-GA-0018-02	GENERAL ARRANGEMENT
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NOTES

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FAX: +27 (0)21 950 7502
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NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	2019/05/09
	FACEBRICK SPECIFICATION AMENDED				2019/05/08
	DOOR TYPES AND SCHEDULE REVISED				2018/06/28
01	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/06/28
	STEEL COLUMN ON GRIDLINE B/10b REPLACED WITH RC COLUMN				2018/05/28
	HOLD POINT - ELECTRICAL NOTES ADDED				2018/05/08
	EXTERNAL STEEL STAIRCASES AMENDED				2018/05/28
	DIMENSIONS AND NOTES ADDED / AMENDED				2018/05/28
	DETAIL REFERENCES ADDED ON PLAN				2018/05/28
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

REVISIONS

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CONTRACTOR/CONSULTANT	NAME	SIGN	DATE
TITLE			
DRAWN	KK		06 05 19
CHECKED	RU		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS	NAME	SIGN	DATE
TITLE			

TRANSNET CAPITAL PROJECTS	NAME	SIGN	DATE
TITLE			

PR.ENG./PR.TECH./PR.ARCH
NAME
DATE
SIGNATURE 06 05 19
REG. NUMBER 20743231
SCALE: 1:100 A0

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000990/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
GENERAL ARRANGEMENT

PROJECT NUMBER							ODI	FBS	DIS	TYPE	DRAWING NO.			SHEET		REV	ID
1	9	2	4	7	0	1	2	5	1	0	A	G	A	0	0	1	8	0	1	02	AE

- REFER TO RESPECTIVE ELECTRICAL DOCUMENTATION AND DRAWINGS. AWAITING DETAIL INFORMATION ON EARTHING AND LPS SYSTEM, AS WELL AS APPLICABLE MV AND LV EQUIPMENT.
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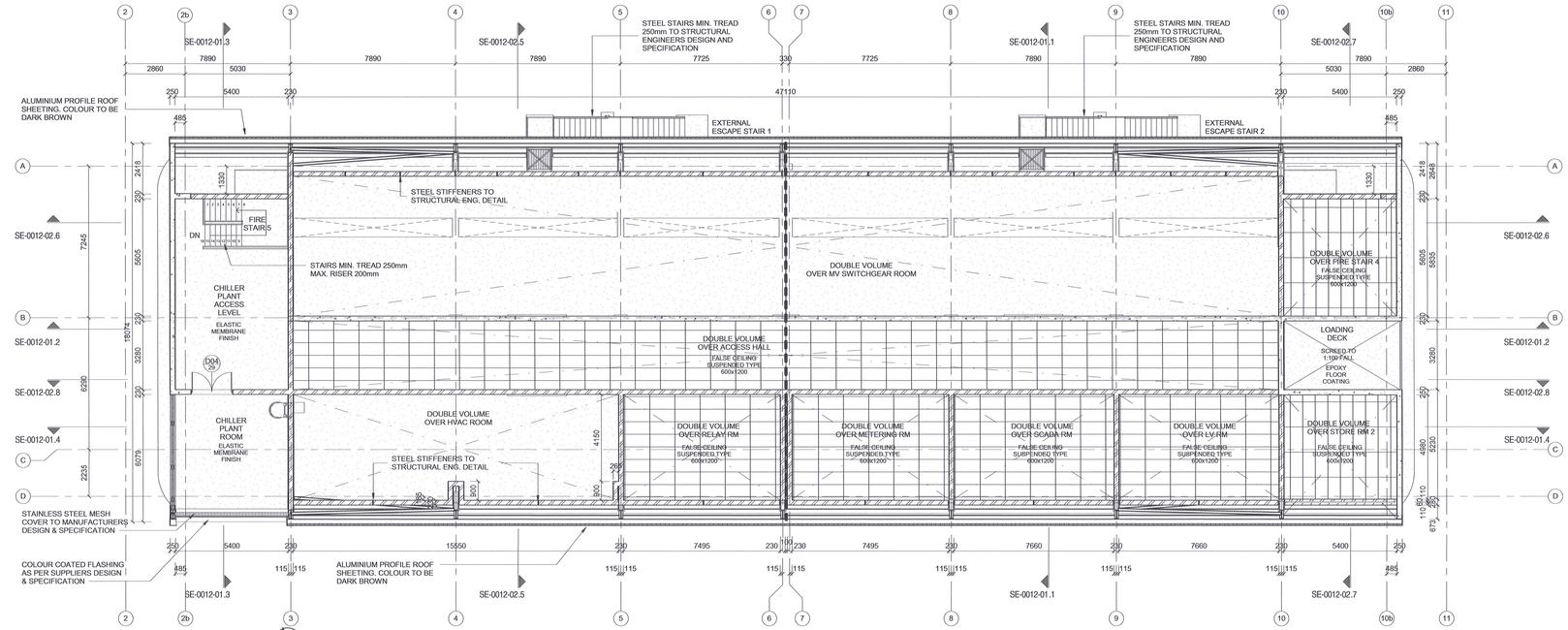
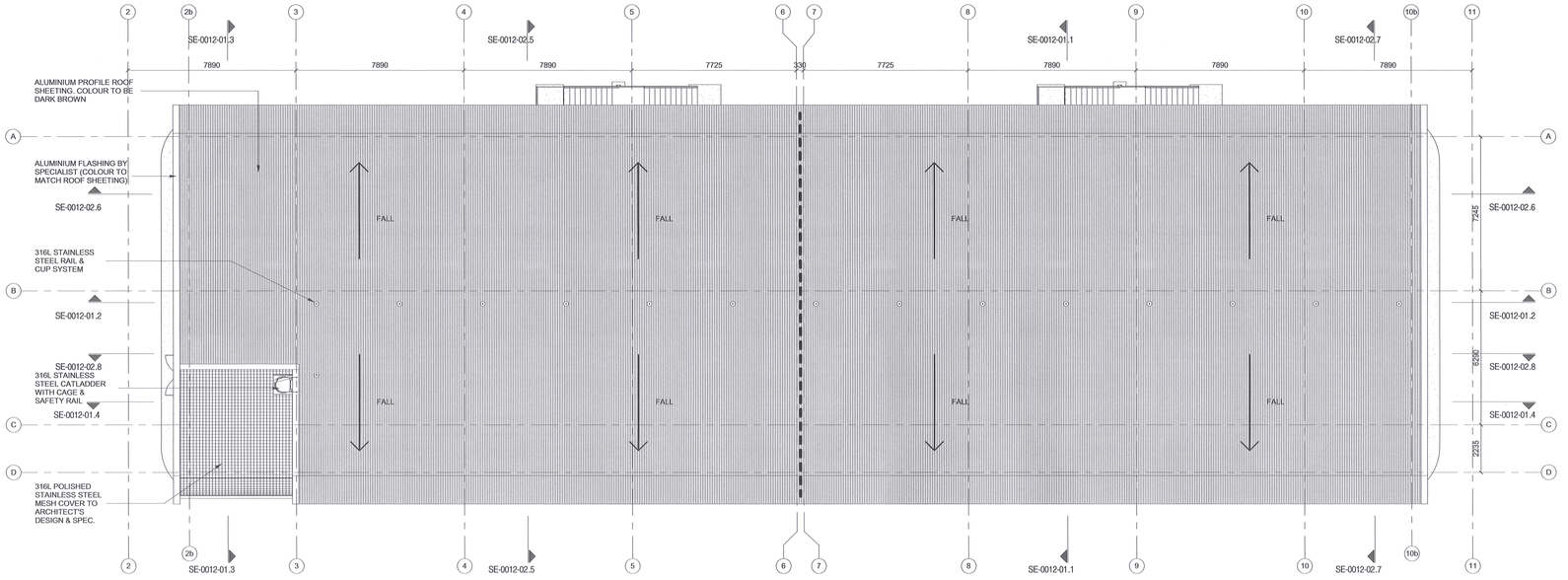


1 | 02 LEVEL
GA-0018-02 | SCALE 1 : 100



2 | ROOF PLAN
GA-0018-02 | SCALE 1 : 100

MASTER
28 JUN 2018
AECOM
TRANSNET

1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0012-02	SECTIONS
1924701-2-510-A-SE-0012-01	SECTIONS
1924701-2-510-A-GA-0018-01	GENERAL ARRANGEMENT
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NOTES

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AECOM
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TYGER WATERFRONT
CARL CRONJE DRIVE
TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUE FOR CONSTRUCTION	RIJ	DT	DT	20180628
	HOLD POINT - ELECTRICAL NOTES ADDED				20180628
	EXTERNAL STEEL STAIRCASES AMENDED				20180628
	DIMENSIONS AND NOTES ADDED / AMENDED				20180628
00	ISSUE FOR CONSTRUCTION	RIJ	DT	DT	20180420

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS					
TITLE	NAME	SIGN	DATE		
DRAWN	KK	K.K.	28	06	18
CHECKED	RIJ		28	06	18
DESIGNED	DT		28	06	18
CHECKED	DT		28	06	18

PR.ENG./PR.TECH./PR.ARCH			
NAME	DEREK THOMAS		DATE
SIGNATURE			28 06 18
REG. NUMBER	7343		
SCALE:	1:100		A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000906/06
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163 LYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
GENERAL ARRANGEMENT

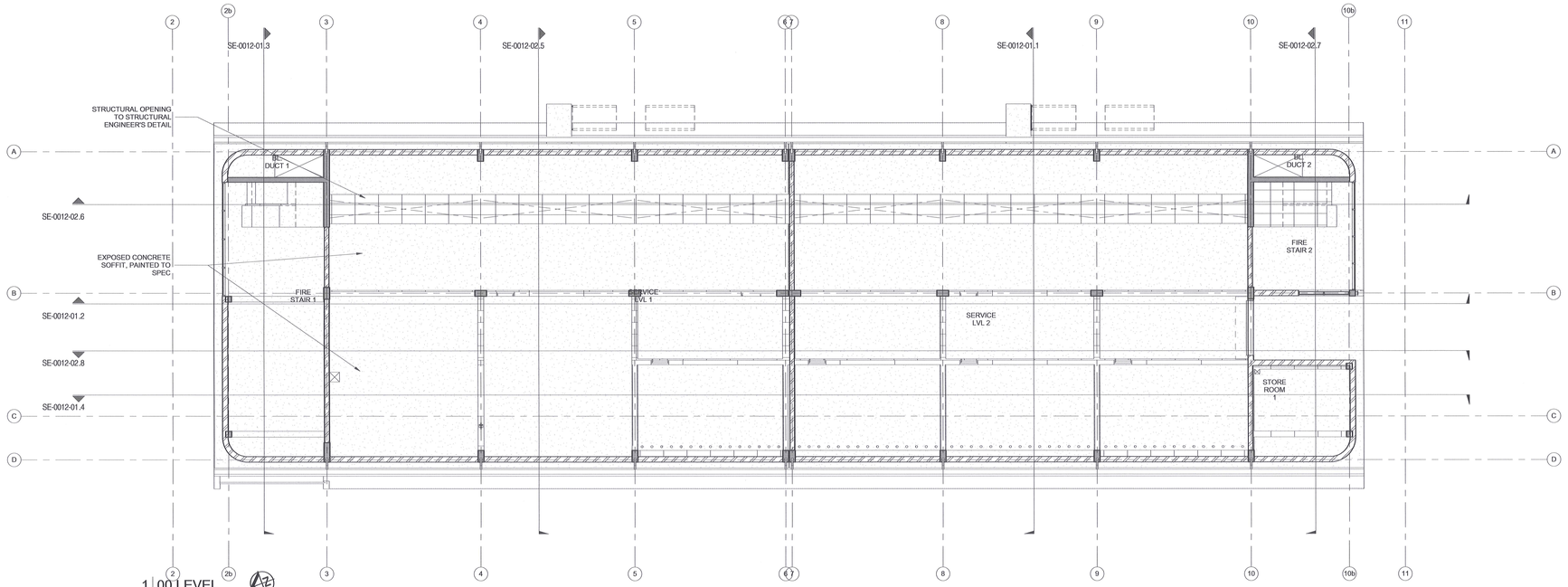
PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.				SHEET		REV	ID
1	9	2	4	7	0	1	2	5	1	0	A	G A	0	0	1	8	0	2	01	AE

LEGEND

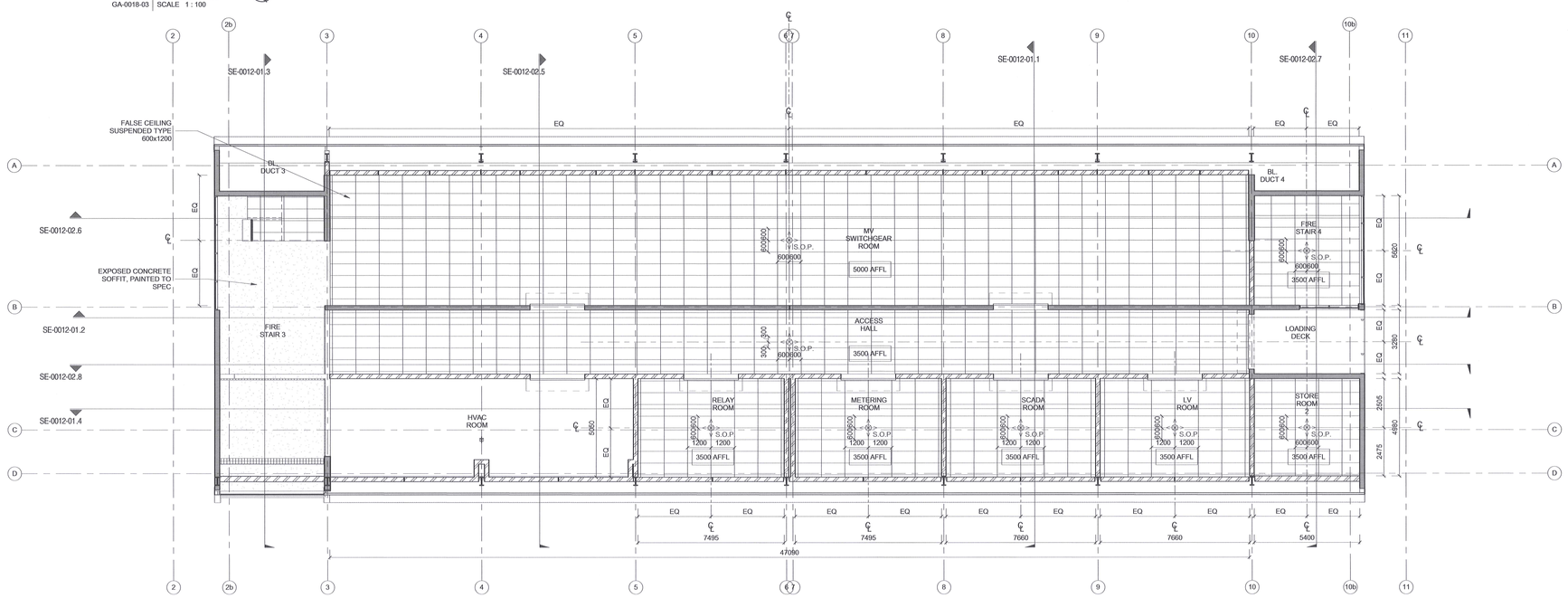
CEILING:

1200mm X 600mm LAY-IN GRID SUSPENDED CEILING. CELOTEX MINERAL PIN PERFORATION TILE.

- REFER TO RESPECTIVE ELECTRICAL AND MECHANICAL DOCUMENTATION FOR LIGHTING LAYOUT AND HVAC/GRILL LAYOUT



1 | 00 LEVEL
GA-0018-03 | SCALE 1 : 100



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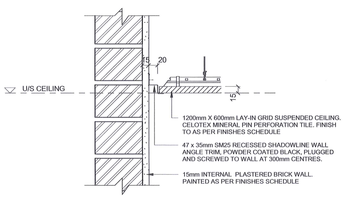

3 | CEILING SHADOWLINE DETAIL
GA-0018-03 | SCALE 1 : 5

MASTER
28 JUN 2018
AECOM
TRANSNET

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DRAWING NO.	REFERENCE

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
00	FIRST ISSUE FOR CONSTRUCTION	RJ	DT	DT	2018/06/08

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OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	K. V.	K.V.	28 06 18
CHECKED	D.J.V		28 06 18
DESIGNED	D. THOMAS		28 06 18
CHECKED	D. THOMAS		28 06 18

PR.ENG./PR.TECH/PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		28 06 18
REG. NUMBER	7343	
SCALE:	1:100	A0

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TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: NEW MAIN INTAKE SUBSTATION CEILING PLAN

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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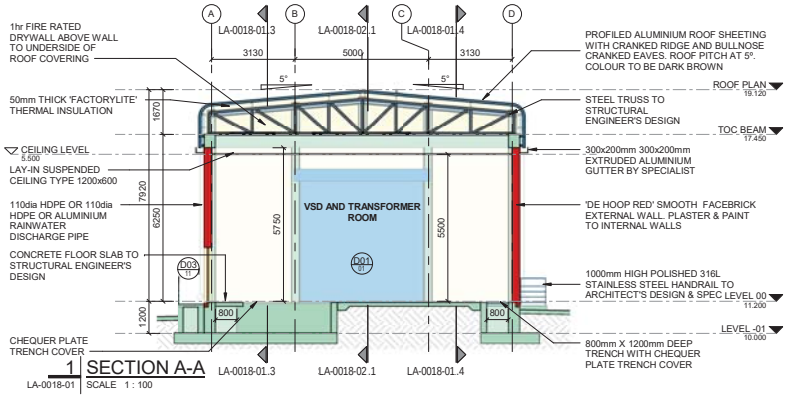
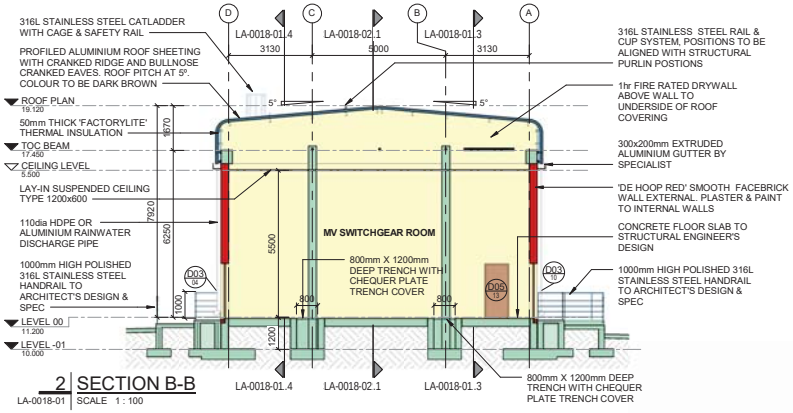
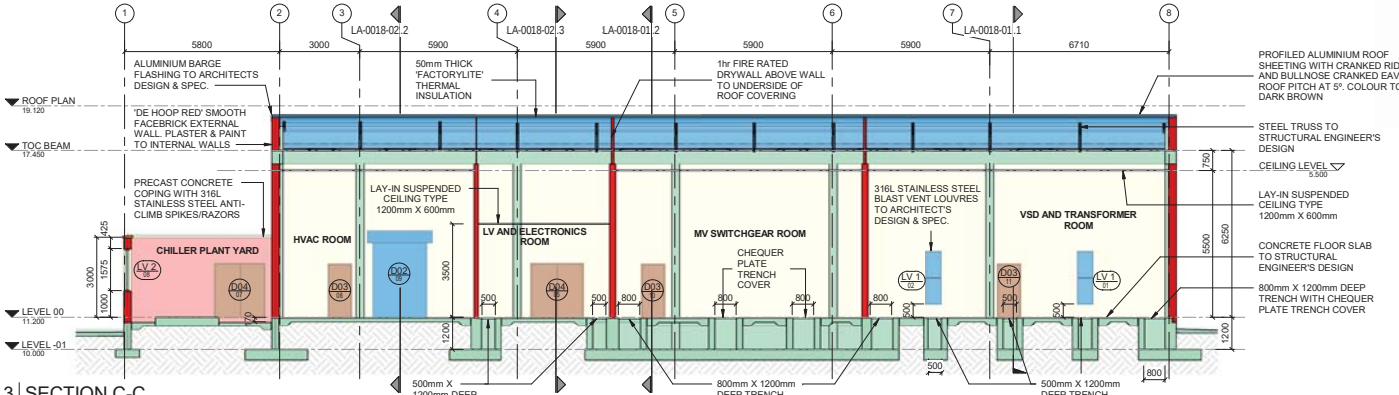


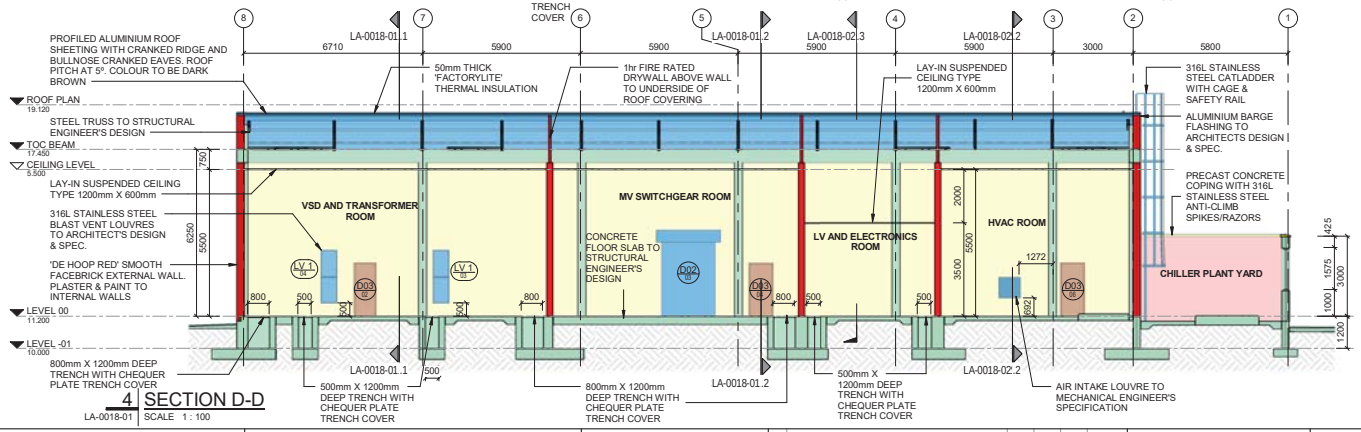
1 SECTION A-A
LA-0018-01 SCALE 1 : 100



2 SECTION B-B
LA-0018-01 SCALE 1 : 100



3 SECTION C-C
LA-0018-01 SCALE 1 : 100



4 SECTION D-D
LA-0018-01 SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0061-01	ELEVATIONS
1924701-2-510-A-LA-0016-02	GENERAL ARRANGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0016-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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CHECKED	RU		29 08 19
DESIGNED	DT		29 08 19
CHECKED	JPK		29 08 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		29 08 19
REG. NUMBER	24743231	
SCALE:	AS SHOWN	A1

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FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
LA - SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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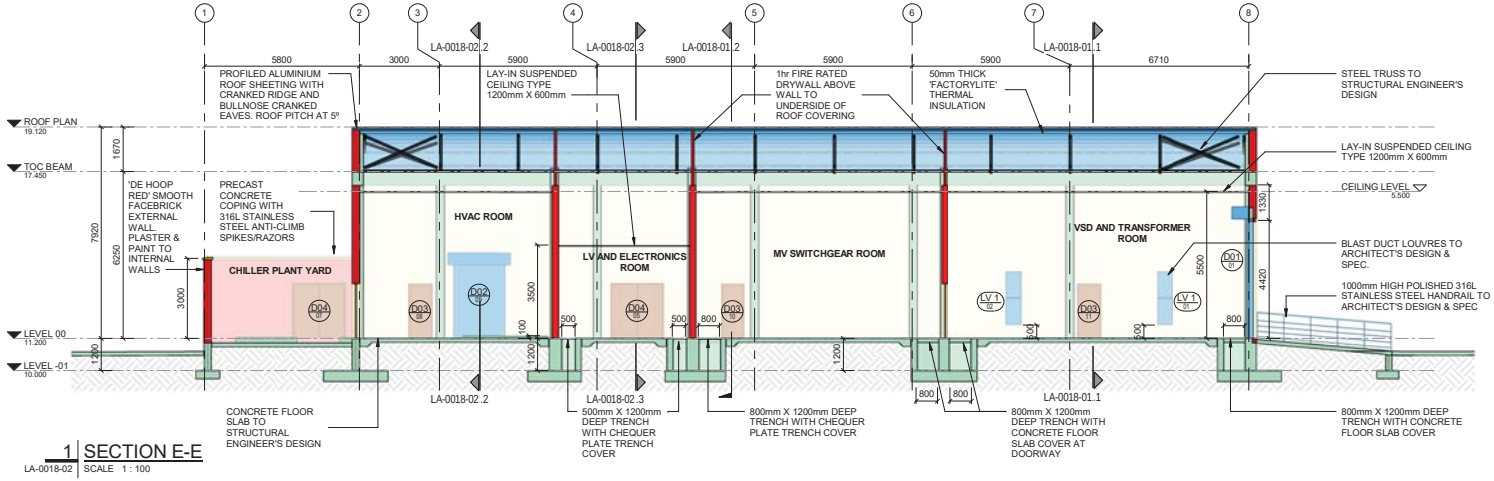
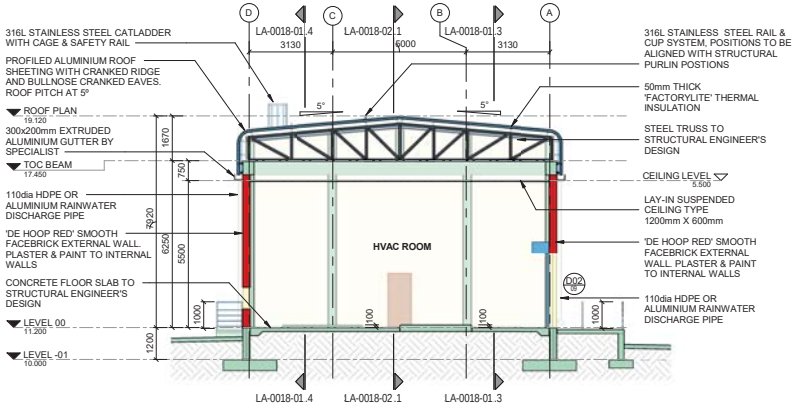
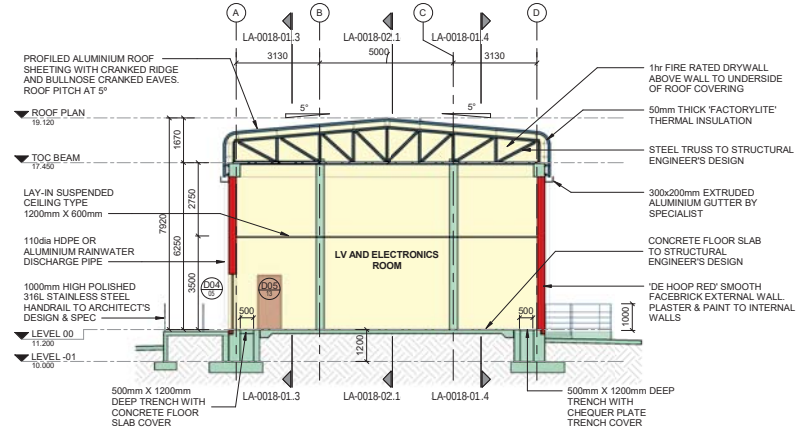


1 SECTION E-E
LA-0018-02 SCALE 1 : 100



2 SECTION F-F
LA-0018-02 SCALE 1 : 100



3 SECTION G-G
LA-0018-02 SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0061-01	ELEVATIONS
1924701-2-510-A-LA-0016-02	GENERAL ARRANGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0016-01	GENERAL ARRANGEMENT

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DESIGNED	DT	DT	29	08	19
CHECKED	JPK	JPK	29	08	19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

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SIGNATURE		29 08 19
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SCALE:	AS SHOWN	A1

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
LA - SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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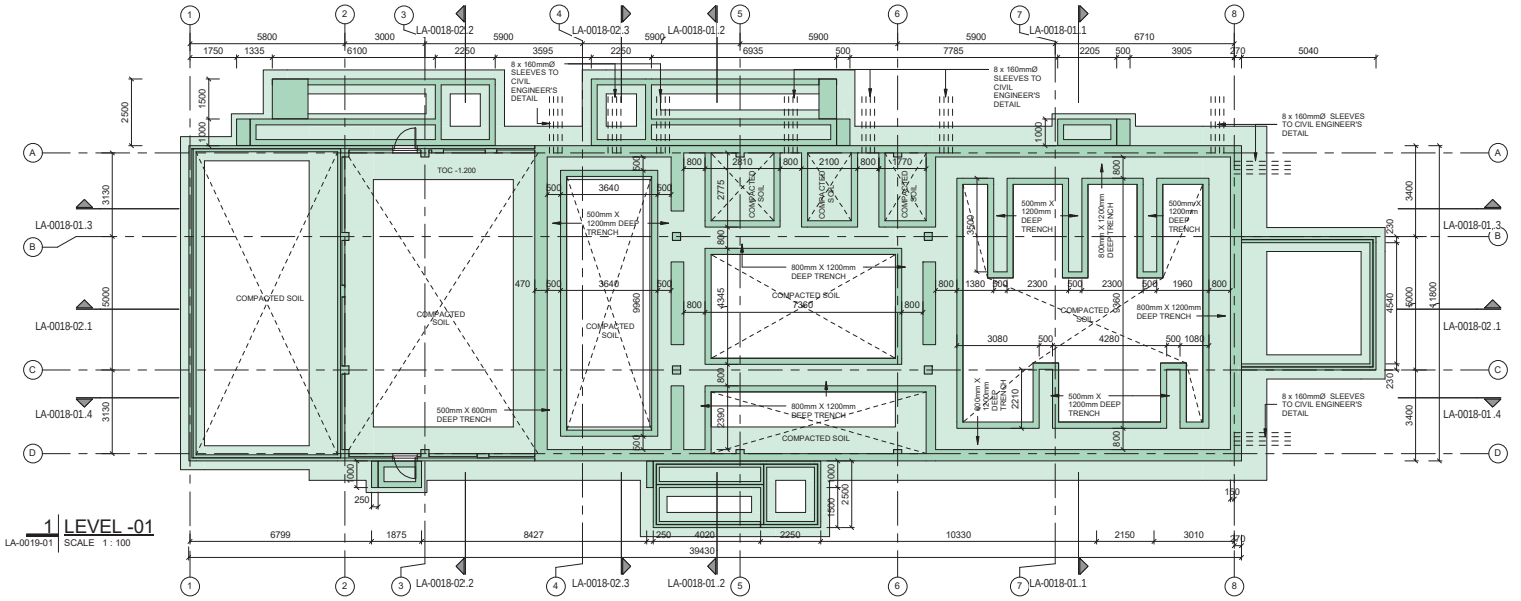

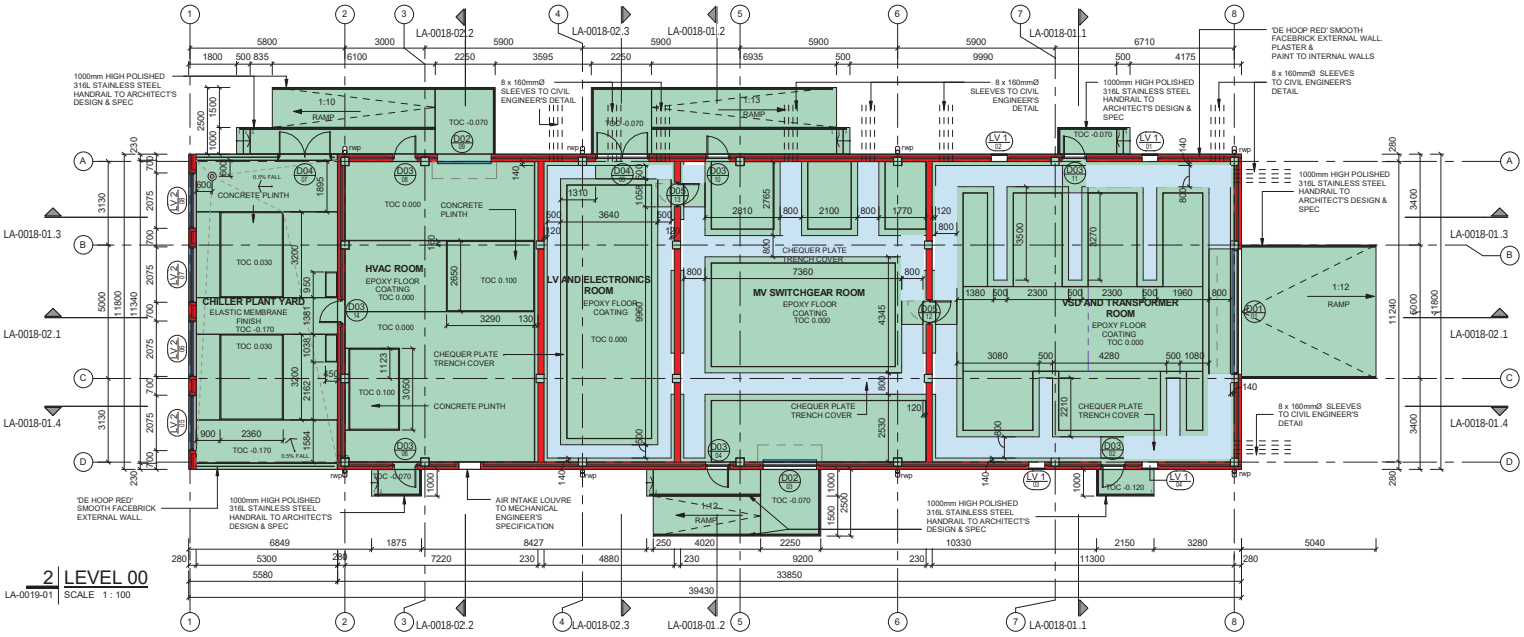

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0010-02	SECTIONS
1924701-2-510-A-LA-0010-01	SECTIONS
1924701-2-510-A-LA-0061-01	ELEVATIONS
1924701-2-510-A-LA-0016-02	GENERAL ARRANGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0016-00	SITE PLAN

REFERENCE DRAWINGS

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TRANSNET CAPITAL PROJECTS

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PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		29 08 19
REG. NUMBER	24743231	
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
GENERAL LAYOUTS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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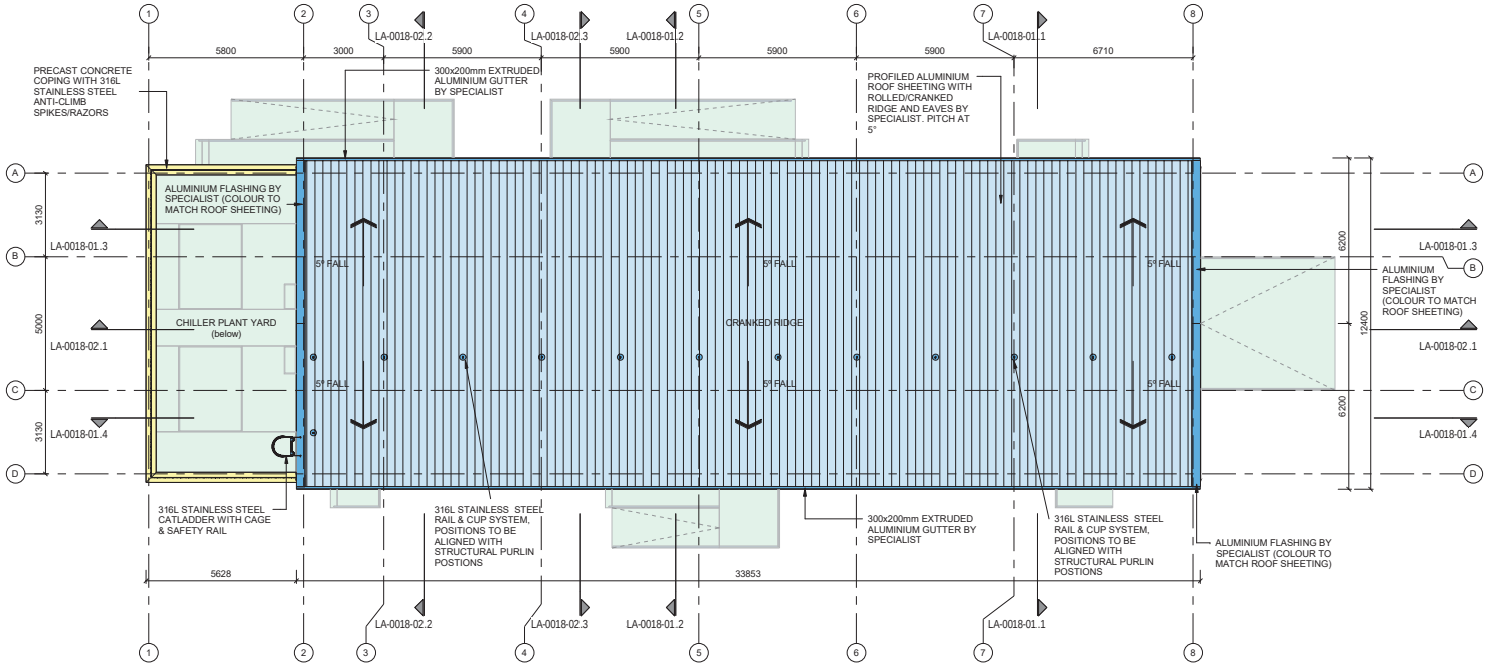

1 ROOF PLAN
LA-0019-02 SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0010-02	SECTIONS
1924701-2-510-A-LA-0010-01	SECTIONS
1924701-2-510-A-LA-0061-01	ELEVATIONS
1924701-2-510-A-LA-0016-01	GENERAL ARRANGEMENT
1924701-2-510-A-LA-0016-00	SITE PLAN

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DESIGNED	DT		29	08	19				
CHECKED	JPK		29	08	19				

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		29 08 19
REG. NUMBER	24743231	
SCALE:	AS SHOWN	A1

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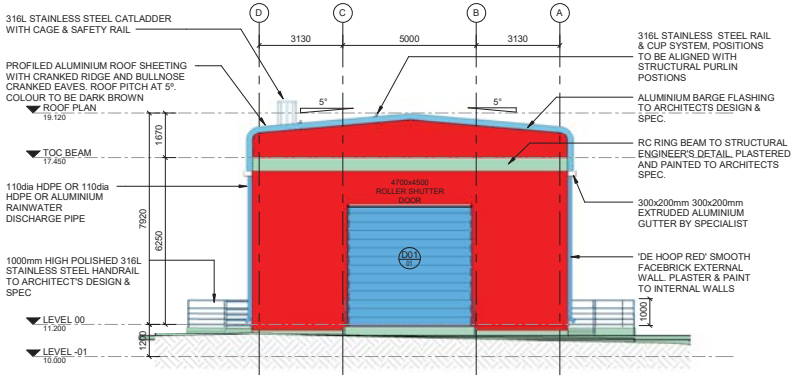
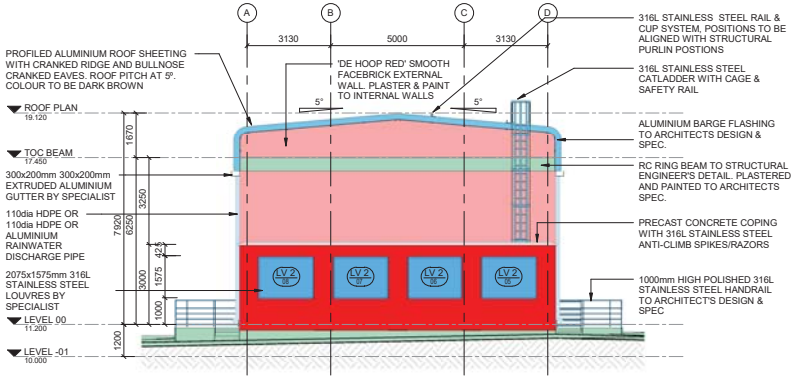
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
ROOF PLAN

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	LA	0019	02	00	AE



1 NORTH ELEVATION
LA-0020-01 SCALE 1 : 100



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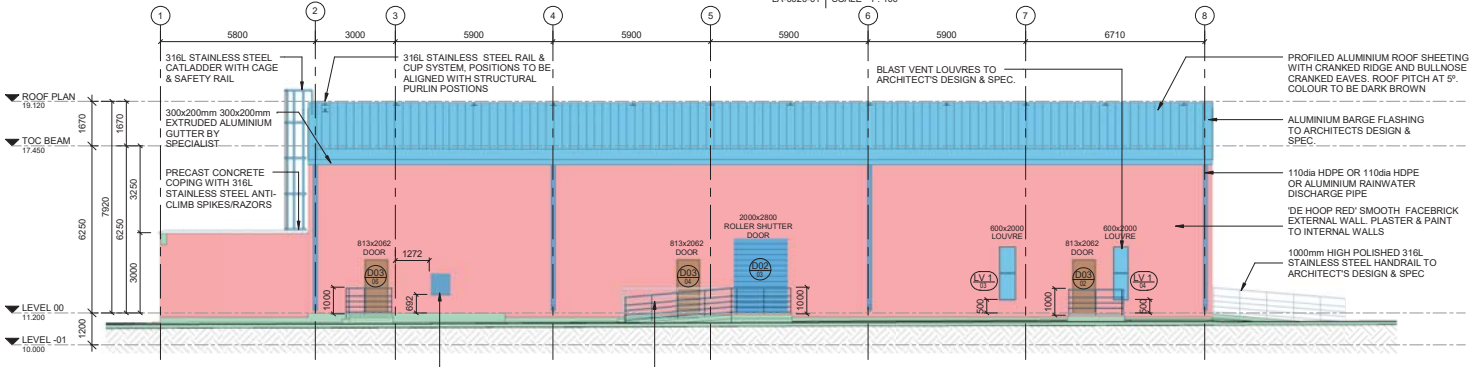
LA-0020-01 SCALE 1 : 100



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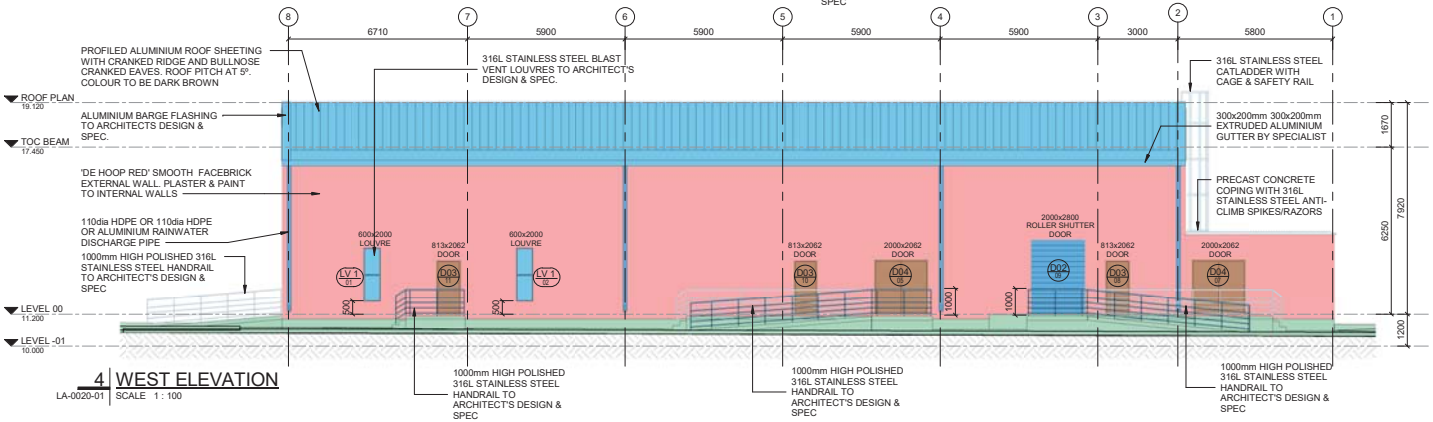
LA-0020-01 SCALE 1 : 100



4 WEST ELEVATION
LA-0020-01 SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0010-02	SECTIONS
1924701-2-510-A-LA-0010-01	SECTIONS
1924701-2-510-A-LA-0016-02	GENERAL ARRANGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0016-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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DESIGNED	DT		29 08 19
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OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		29 08 19
REG. NUMBER	24743231	
SCALE:	AS SHOWN	A1

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TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
LA - ELEVATIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 1 9 2 4 7 0 1	2	5 1 0	A	L A	0 0 2 0	0 1	00	AE

2 LOCALITY PLAN
LA-0021-01 | SCALE 1 : 10000

MH
MH
Stay Wire
Future Control Building
Proposed New Road
Proposed New Road
Proposed New Road
Existing Building
Proposed New Building
AREA = 621m²
1427
5156
20980
3m High Industrial Barrier Fence
3956
3m High Industrial Barrier Fence
64382
3m High Industrial Barrier Fence
ERF: PORTION 127/5
+-580987mm To The Nearest Major Intersection

1 SITE PLAN
LA-0021-01 | SCALE 1 : 500

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0010-02	SECTIONS
1924701-2-510-A-LA-0010-01	SECTIONS
1924701-2-510-A-LA-0061-01	ELEVATIONS
1924701-2-510-A-LA-0016-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0016-01	GENERAL ARRAGEMENT

REFERENCE DRAWINGS

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						REG. NUMBER	24743231			
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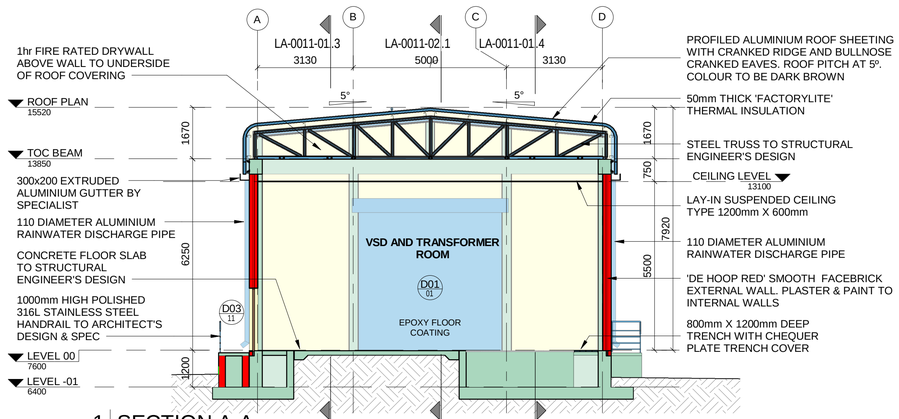
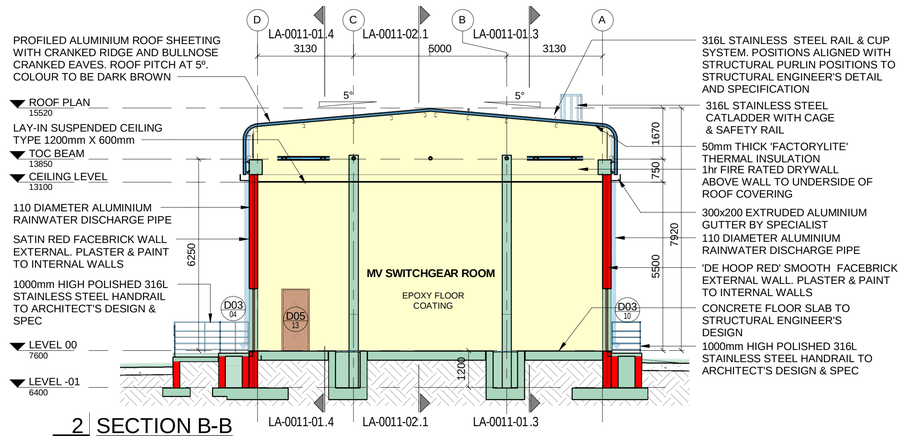
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
SITE PLAN

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	LA	0021	01	00	AE



1 SECTION A-A
LA-0011-01 SCALE 1 : 100



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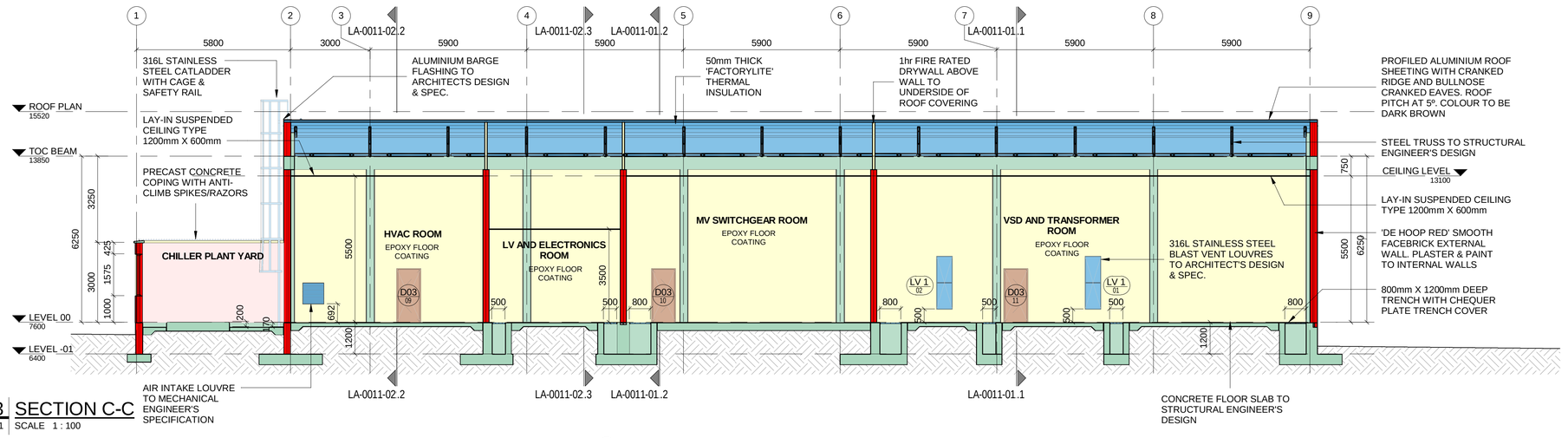
LA-0011-01 SCALE 1 : 100



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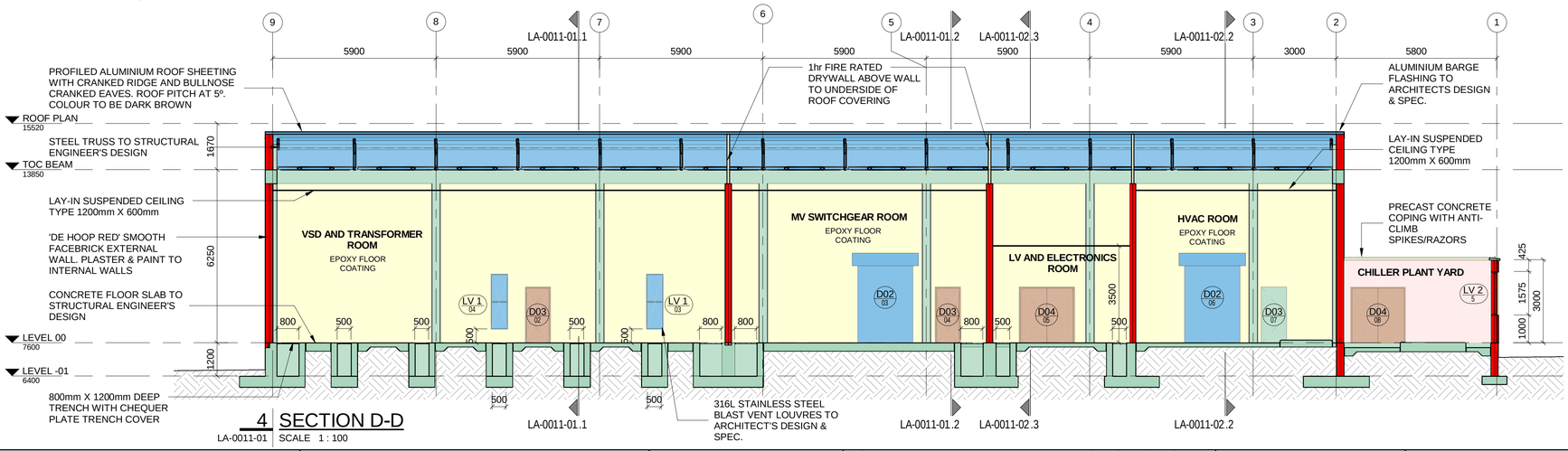

4 SECTION D-D
LA-0011-01 SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0011-02	SECTIONS
1924701-2-510-A-LA-0062-01	ELEVATIONS
1924701-2-510-A-LA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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CHECKED	JPK		07 11 19

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TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		07 11 19
REG. NUMBER	24743231	
SCALE:	1:100	A1

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FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
LA - SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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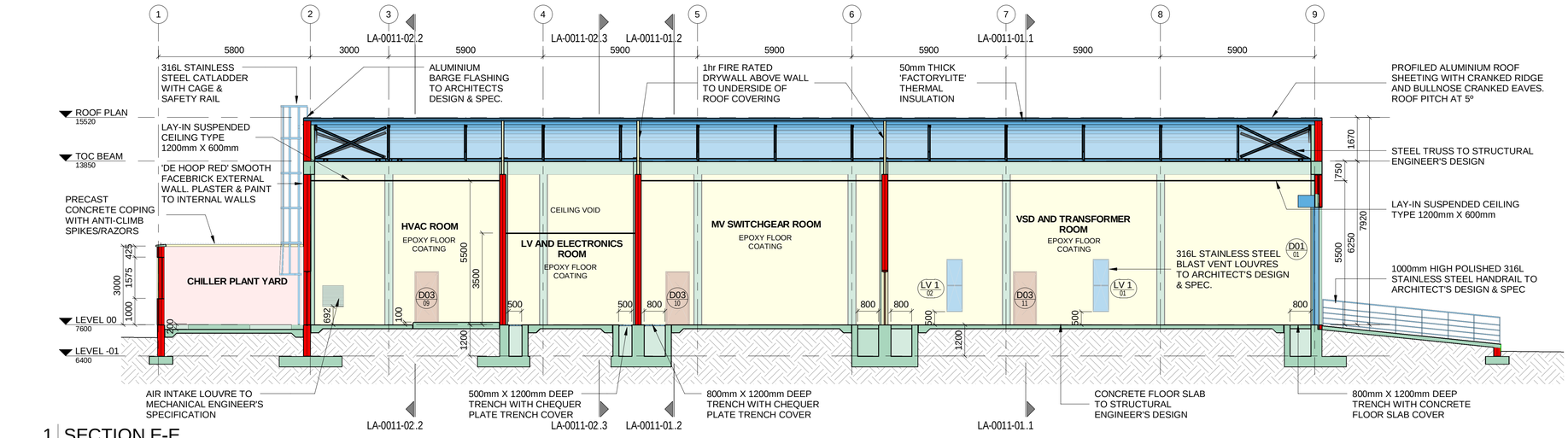
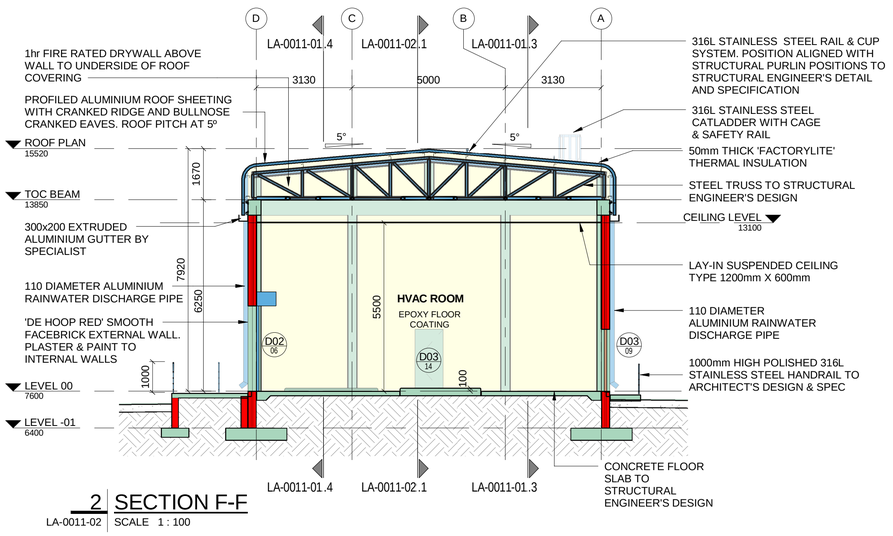


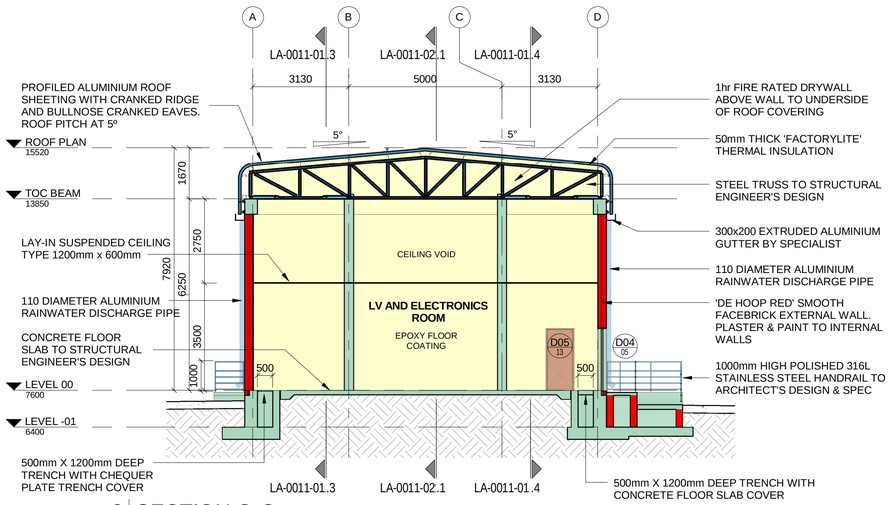
1 SECTION E-E

LA-0011-02 | SCALE 1 : 100



2 SECTION F-F

LA-0011-02 | SCALE 1 : 100



3 SECTION G-G

LA-0011-02 | SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0011-01	SECTIONS
1924701-2-510-A-LA-0062-01	ELEVATIONS
1924701-2-510-A-LA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N LA - SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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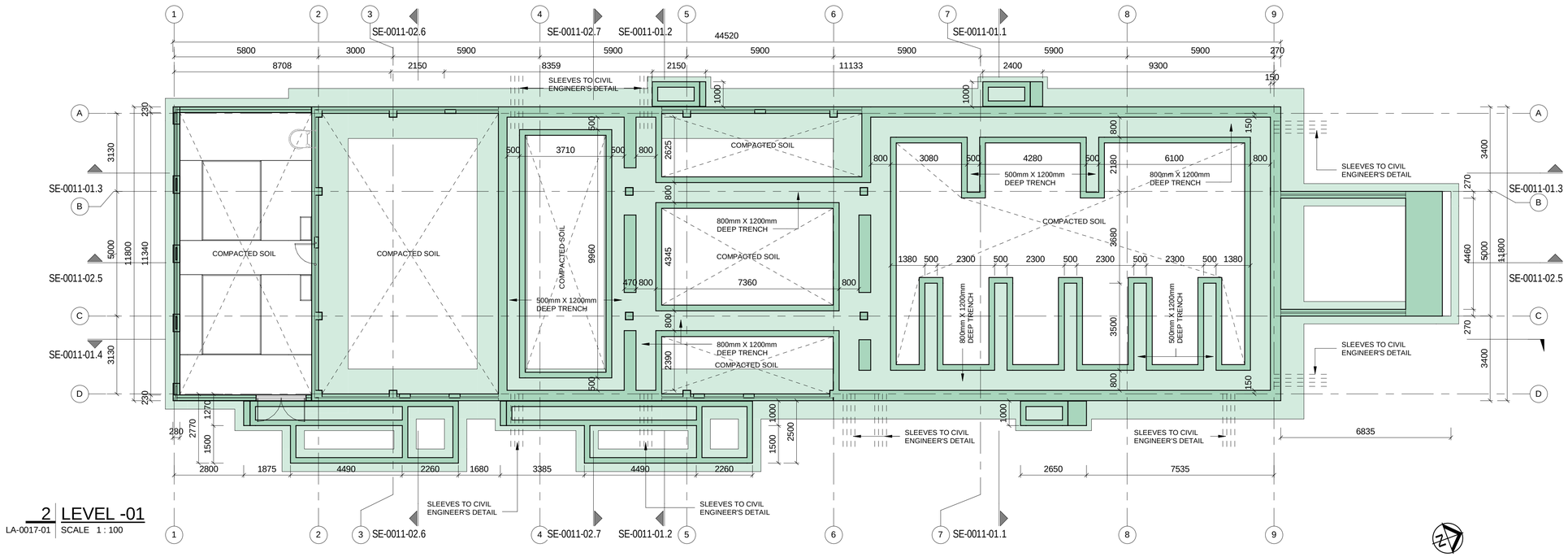

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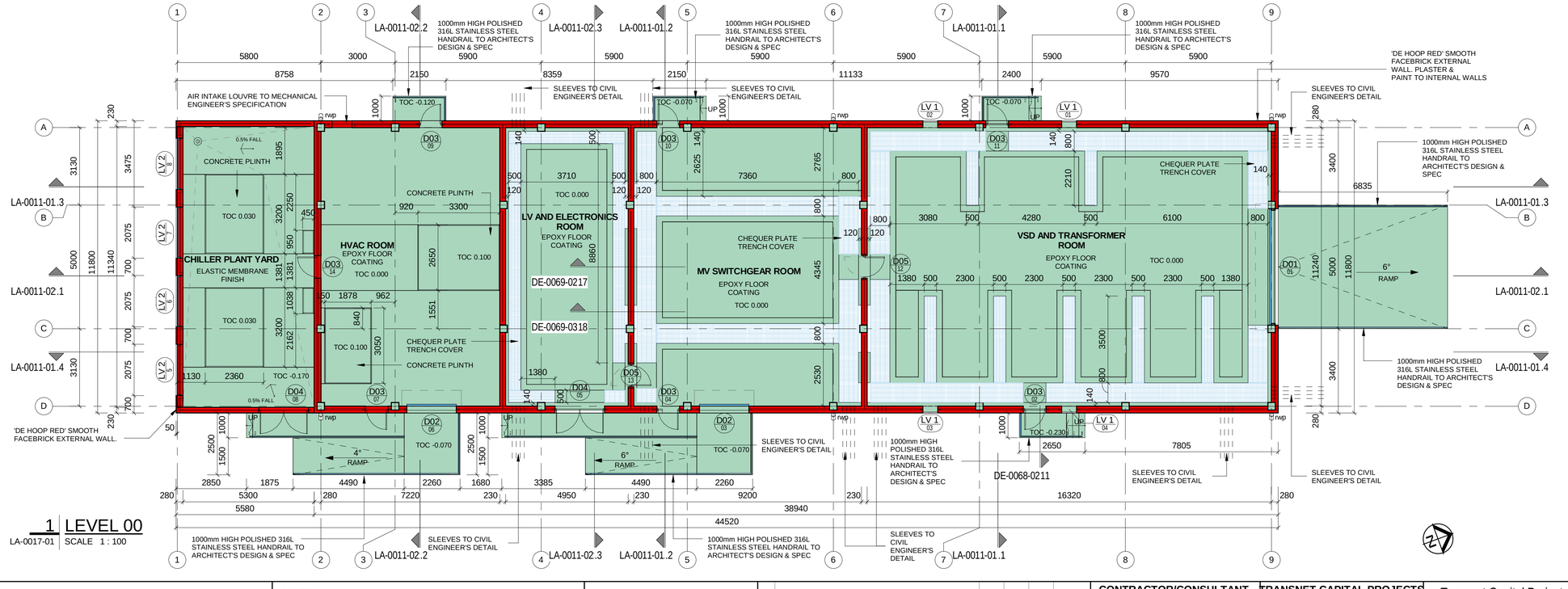
LA-0017-01 | SCALE 1 : 100



1 LEVEL 00

LA-0017-01 | SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0011-02	SECTIONS
1924701-2-510-A-LA-0011-01	SECTIONS
1924701-2-510-A-LA-0062-01	ELEVATIONS
1924701-2-510-A-LA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)

REFERENCE DRAWINGS

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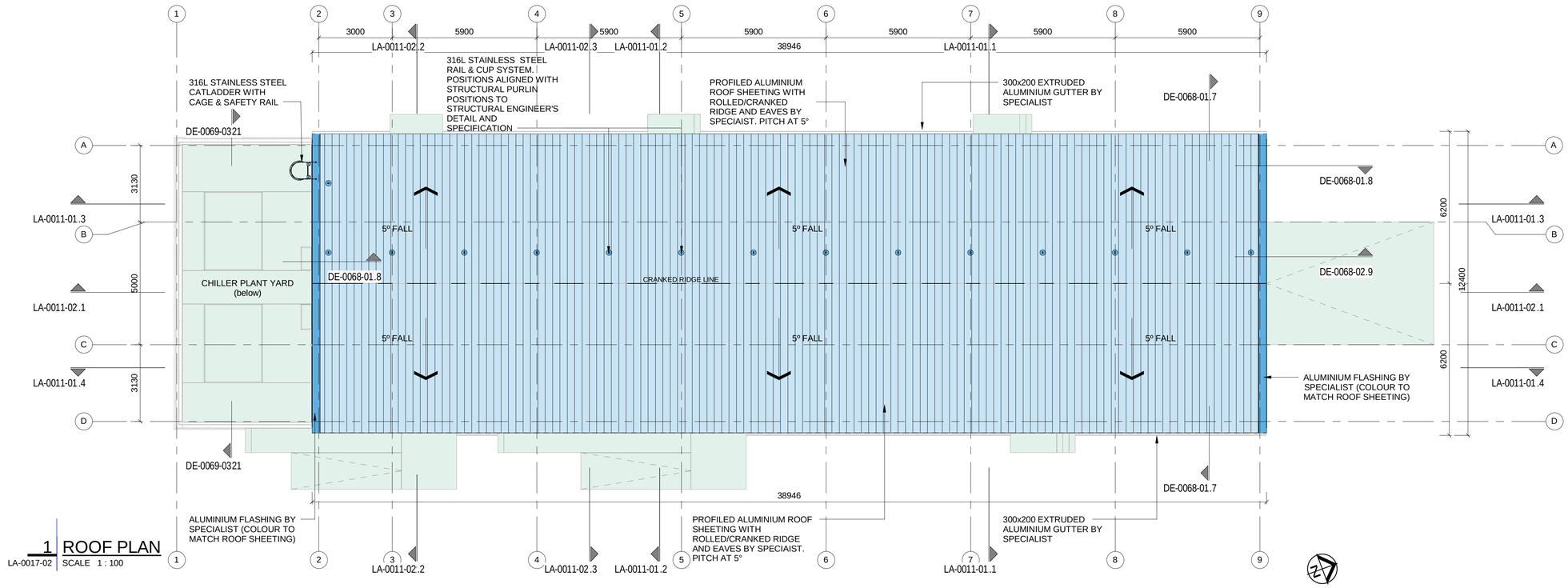
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N GENERAL LAYOUTS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	LA	0023	01	00	AE



1 ROOF PLAN
LA-0017-02 SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0011-02	SECTIONS
1924701-2-510-A-LA-0011-01	SECTIONS
1924701-2-510-A-LA-0062-01	ELEVATIONS
1924701-2-510-A-LA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
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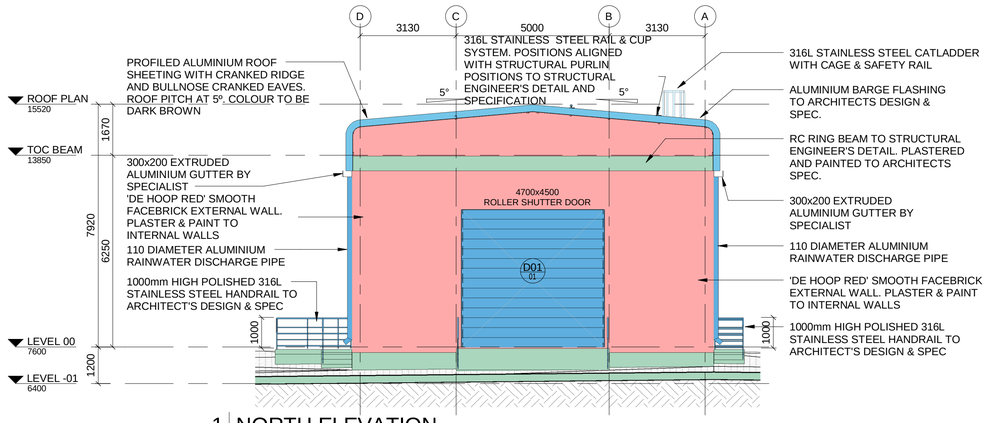
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N ROOF PLAN

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	LA	0023	02	00	AE



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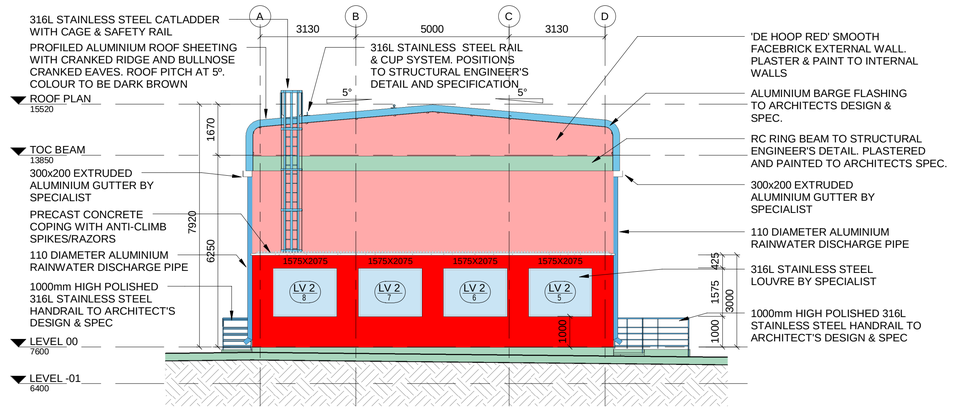
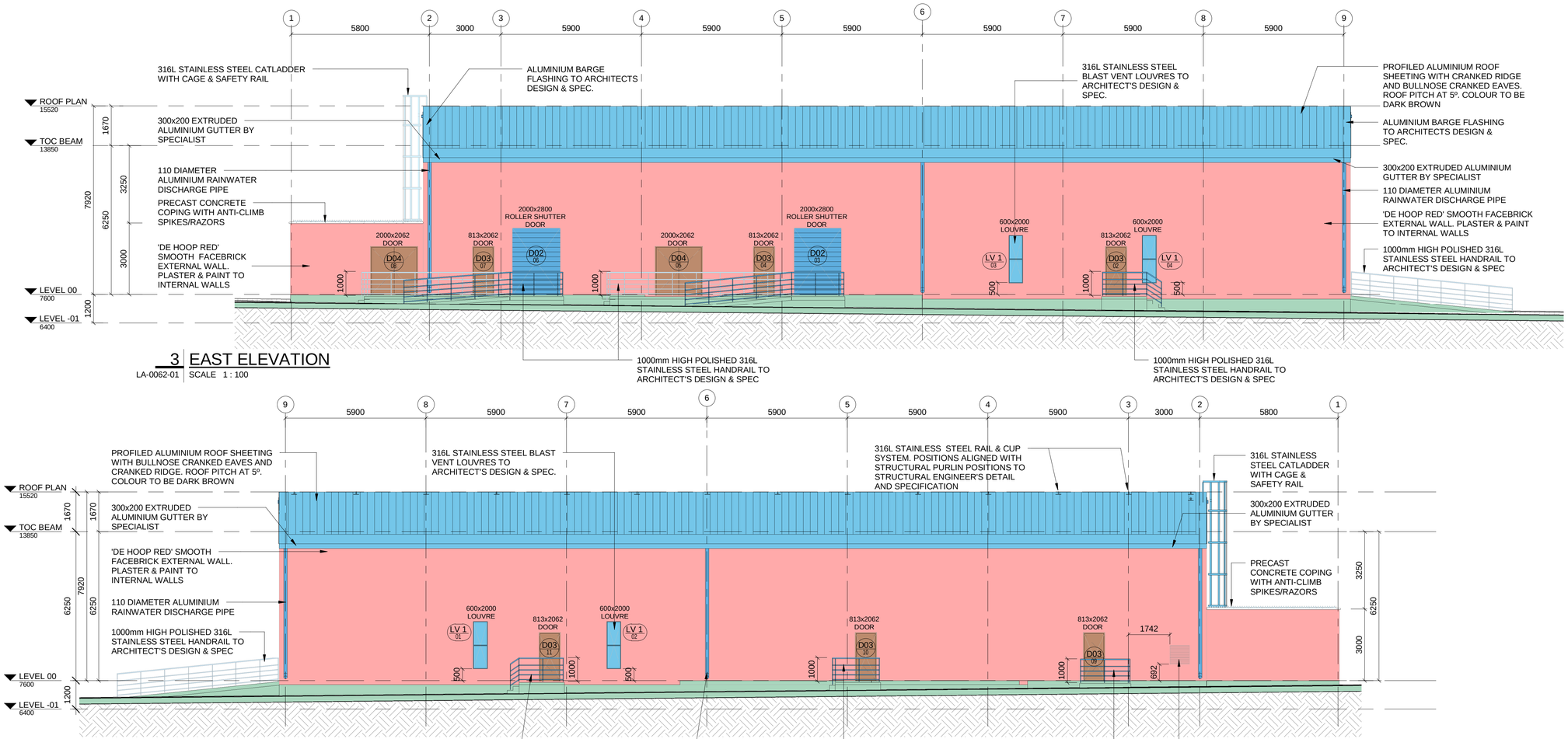


2 SOUTH ELEVATION

LA-0062-01 | SCALE 1 : 100



3 EAST ELEVATION

LA-0062-01 | SCALE 1 : 100

4 WEST ELEVATION

LA-0062-01 | SCALE 1 : 100

1000mm HIGH POLISHED 316L STAINLESS STEEL HANDRAIL TO ARCHITECT'S DESIGN & SPEC

110 DIAMETER ALUMINIUM RAINWATER DISCHARGE PIPE

1000mm HIGH POLISHED 316L STAINLESS STEEL HANDRAIL TO ARCHITECT'S DESIGN & SPEC

AIR INTAKE LOUVRE TO MECHANICAL ENGINEER'S SPECIFICATION

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0011-02	SECTIONS
1924701-2-510-A-LA-0011-01	SECTIONS
1924701-2-510-A-LA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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TRANSNET CAPITAL PROJECTS

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PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		07 11 19
REG. NUMBER	24743231	
SCALE:	1:100	A1

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
LA - ELEVATIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	LA	0024	01	00	AE

2 LOCALITY PLAN
LA-0017-00 | SCALE 1: 10000

1:12 LH

Existing Building

Existing Conveyor Rail

3m High Industrial Barrier Fence

3m High Industrial Barrier Fence

3m High Industrial Barrier Fence

Proposed New Building

3m High Industrial Barrier Fence

Proposed New Access Road

ERF: PORTION 197/8

3m High Industrial Barrier Fence

+-922037mm To The Nearest Major Intersection

1 SITE PLAN
LA-0017-00 | SCALE 1: 500

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0011-02	SECTIONS
1924701-2-510-A-LA-0011-01	SECTIONS
1924701-2-510-A-LA-0062-01	ELEVATIONS
1924701-2-510-A-LA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-LA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

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OPERATING DIVISIONS

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TRANSNET CAPITAL PROJECTS

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PR.ENG./PR.TECH./PR.ARCH

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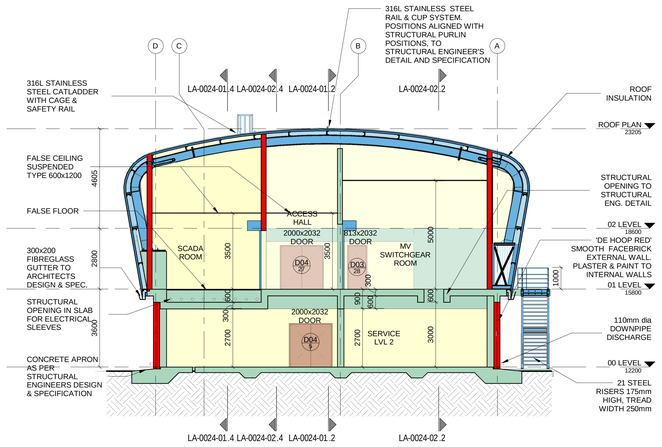
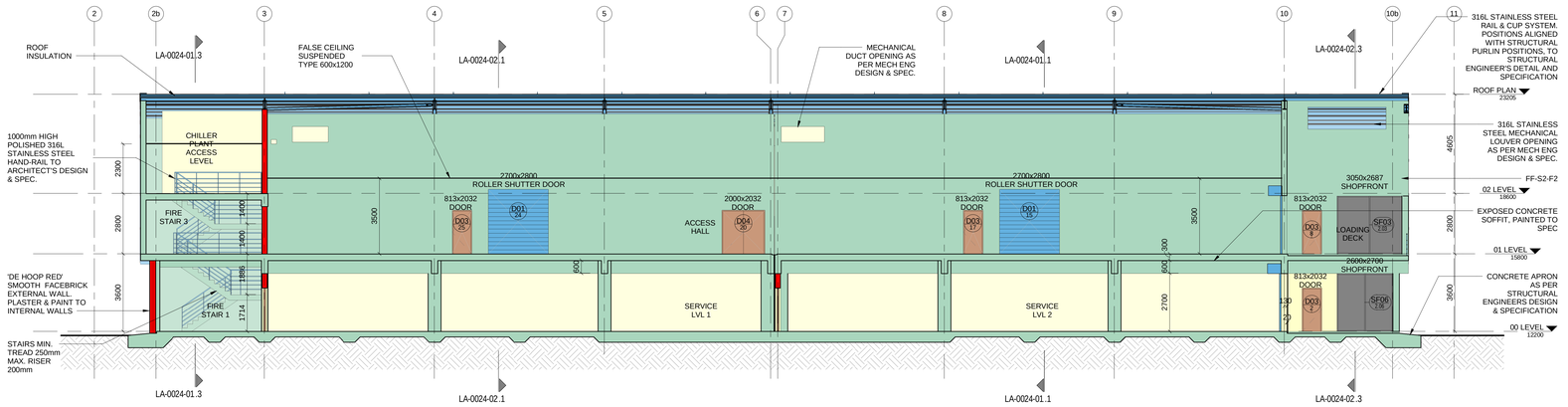
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
SITE PLAN

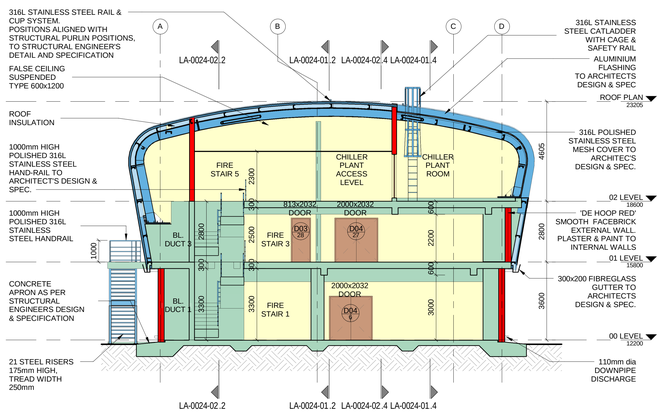
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	LA	0025	00	00	AE



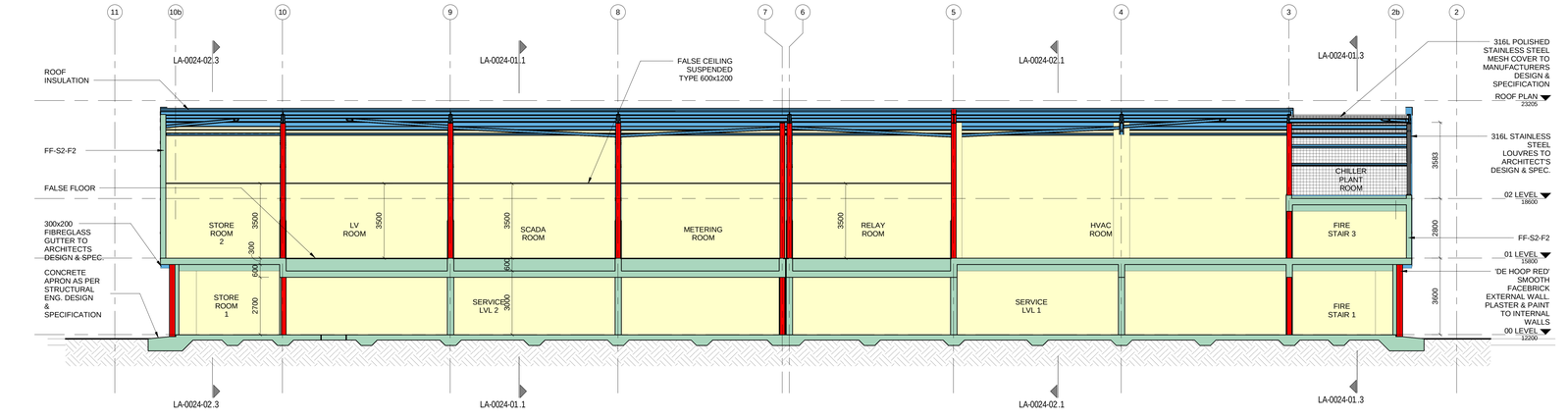
1 SECTION A
LA-0024-01 | SCALE 1 : 100



2 SECTION B
LA-0024-01 | SCALE 1 : 100



3 SECTION C
LA-0024-01 | SCALE 1 : 100



4 SECTION D
LA-0024-01 | SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0012-02	SECTIONS
1924701-2-510-A-LA-0063-01	ELEVATIONS
1924701-2-510-A-LA-0018-02	GENERAL ARRANGEMENT
1924701-2-510-A-LA-0018-01	GENERAL ARRANGEMENT

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SIGNATURE		06 11 19
REG. NUMBER	24743231	
SCALE:	1:100	A0

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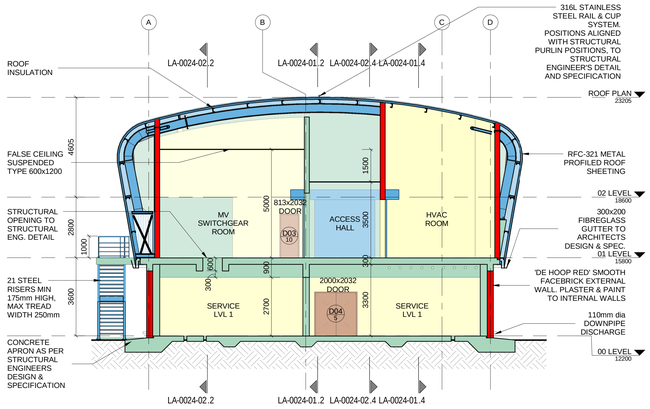
163 LUYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

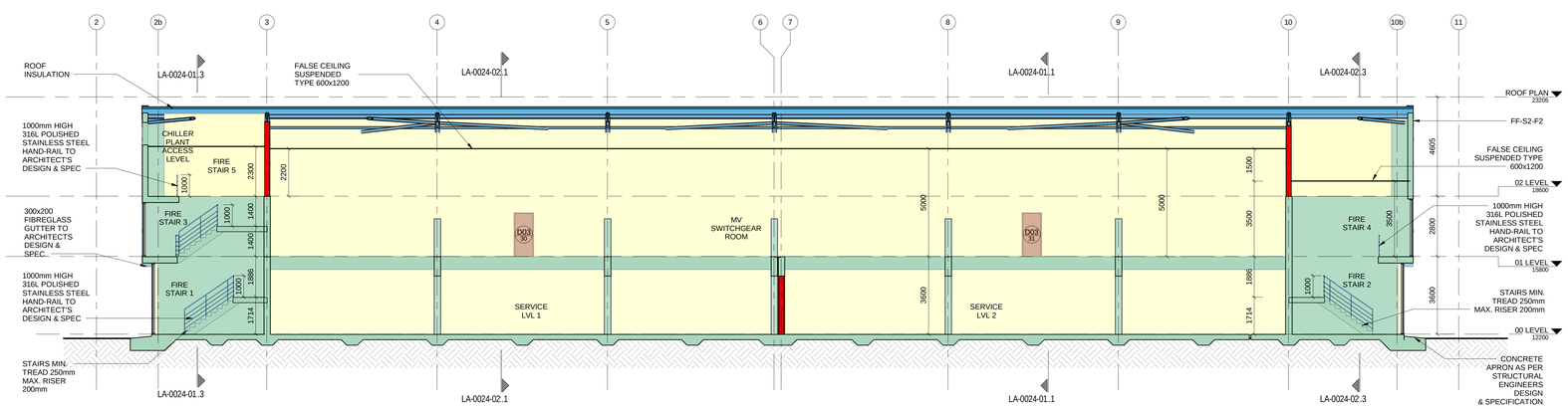
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: NEW MAIN INTAKE SUBSTATION LA - SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701 2	-	510	A	LA	0026	01	00	AE



1 SECTION E

LA-0024-02 | SCALE 1 : 100



2 SECTION F

LA-0024-02 | SCALE 1 : 100

3 SECTION G

LA-0024-02 | SCALE 1 : 100

4 SECTION H

LA-0024-02 | SCALE 1 : 100

NOTES

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DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0012-01	SECTIONS
1924701-2-510-A-LA-0063-01	ELEVATIONS
1924701-2-510-A-LA-0018-02	GENERAL ARRANGEMENT
1924701-2-510-A-LA-0018-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
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DESIGNED	DT		06 11 19
CHECKED	JPK		06 11 19

OPERATING DIVISIONS	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP KOK
DATE	
SIGNATURE	06 11 19
REG. NUMBER	24743231
SCALE:	1:100
	A0

Transnet Capital Projects
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
LA - SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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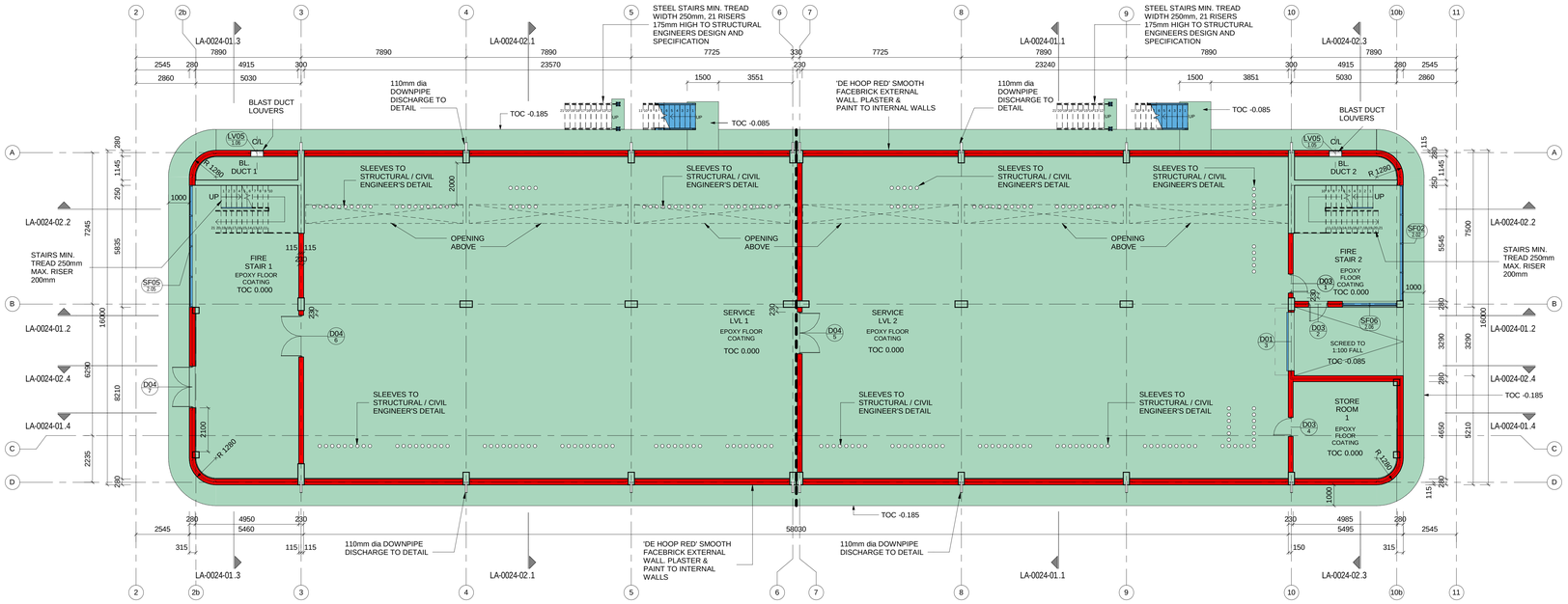

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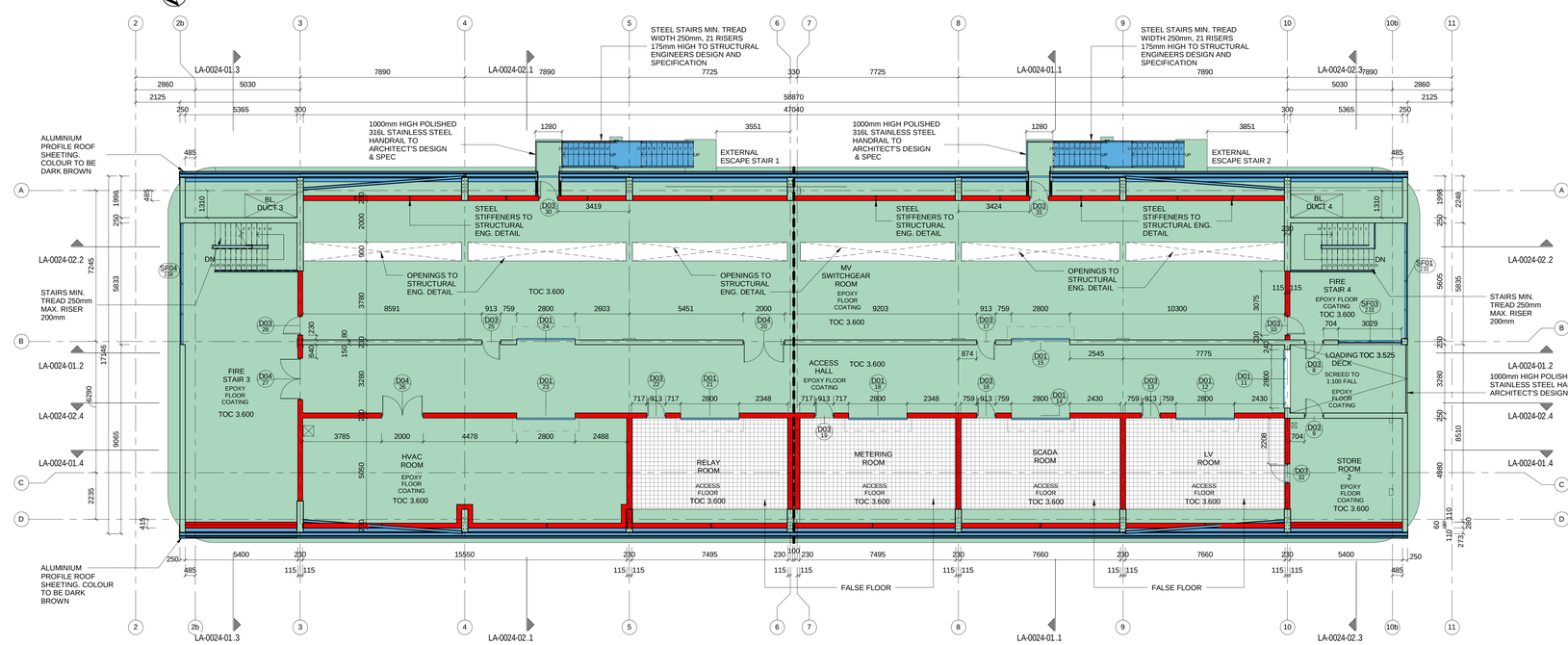

2 | 01 LEVEL
LA-0021-01 | SCALE 1 : 100

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DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0012-02	SECTIONS
1924701-2-510-A-LA-0012-01	SECTIONS
1924701-2-510-A-LA-0063-01	ELEVATIONS
1924701-2-510-A-LA-0018-02	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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REG. NUMBER	24743231	
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
GENERAL LAYOUTS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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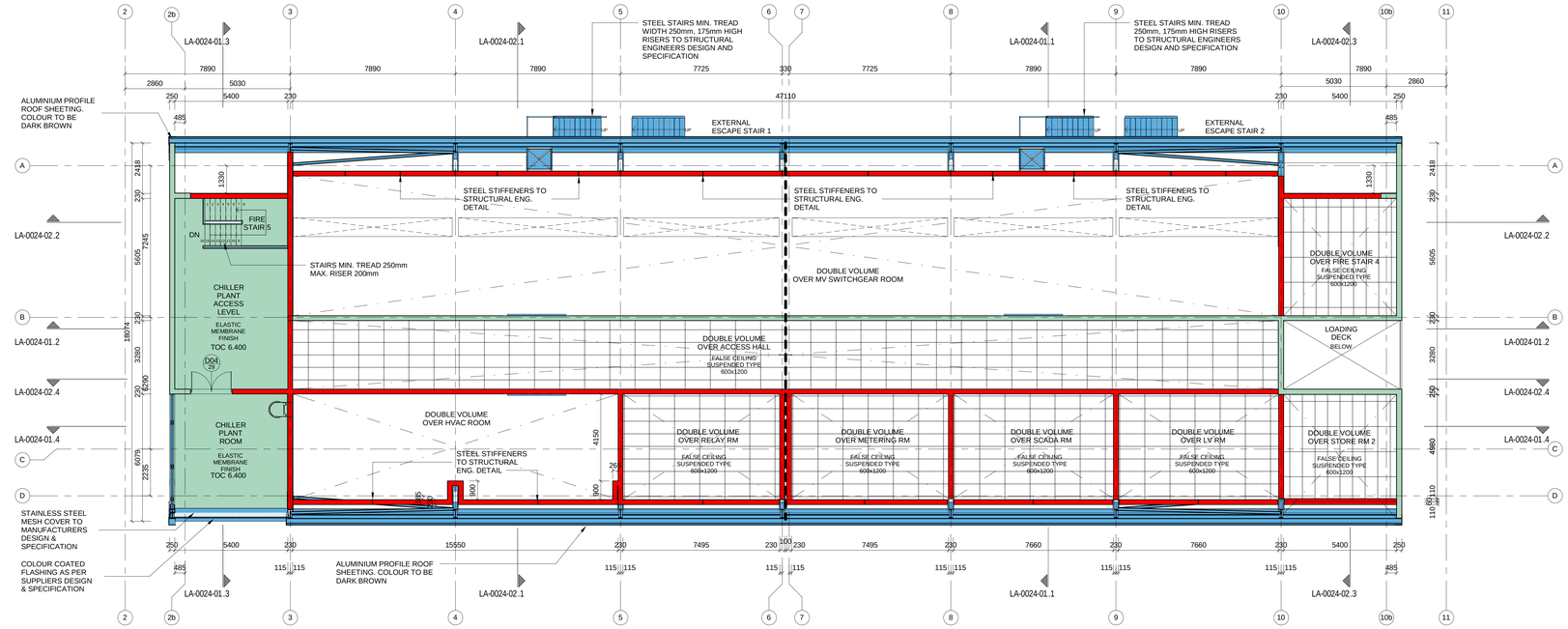
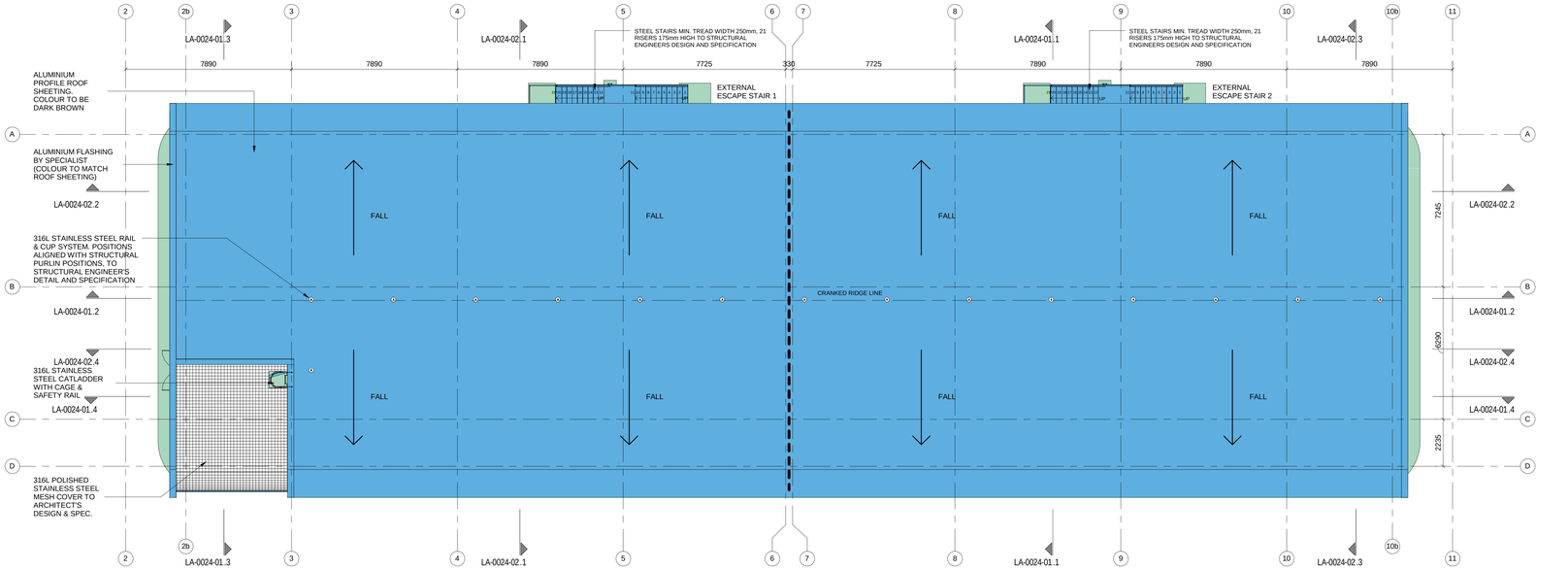


1 | 02 LEVEL
LA-0021-02 | SCALE 1 : 100



2 | ROOF PLAN
LA-0021-02 | SCALE 1 : 100

NOTES

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1924701-2-510-A-LA-0012-01	SECTIONS
1924701-2-510-A-LA-0063-01	ELEVATIONS
1924701-2-510-A-LA-0018-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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SIGNATURE	
DATE	06 11 19
REG. NUMBER	24743231
SCALE:	1:100

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
GENERAL LAYOUT & ROOF PLAN

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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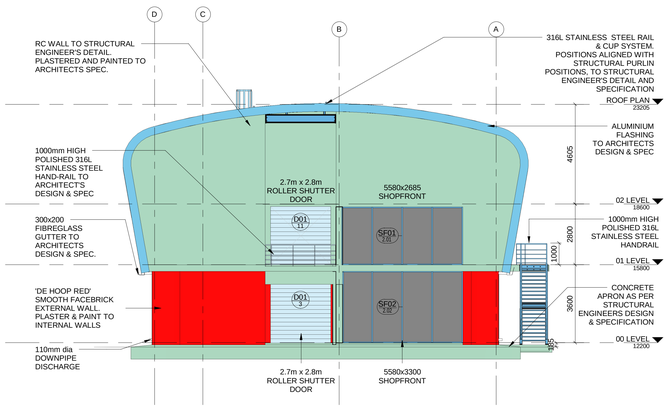
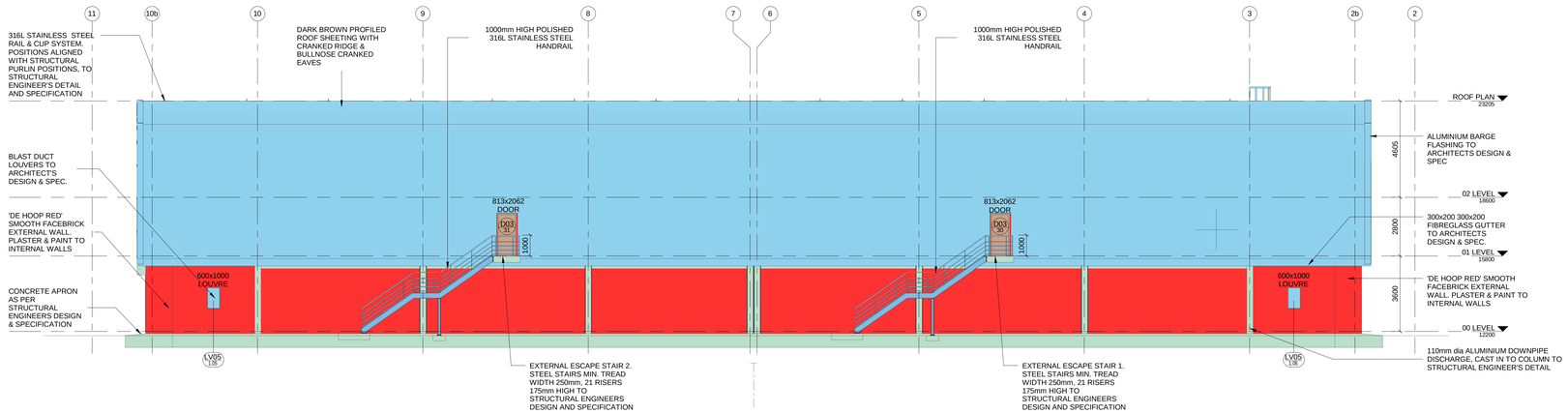
SCALE: 1:100 A0



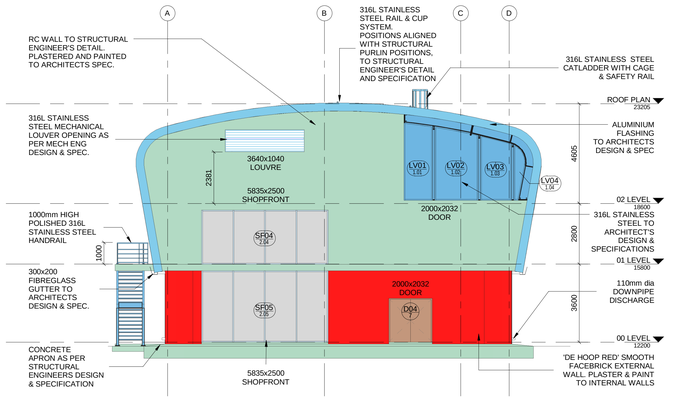
3 SOUTH ELEVATION

LA-0025-01 | SCALE 1 : 100



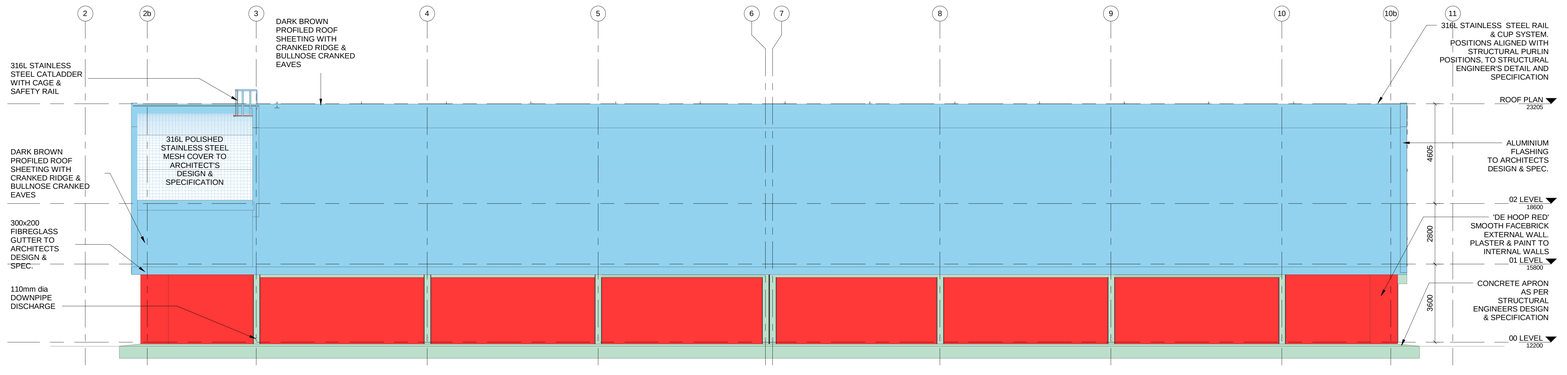
1 EAST ELEVATION

LA-0025-01 | SCALE 1 : 100



4 NORTH ELEVATION

LA-0025-01 | SCALE 1 : 100



2 WEST ELEVATION

LA-0025-01 | SCALE 1 : 100

DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0012-02	SECTIONS
1924701-2-510-A-LA-0012-01	SECTIONS
1924701-2-510-A-LA-0018-02	GENERAL ARRANGEMENT
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: NEW MAIN INTAKE SUBSTATION LA - ELEVATIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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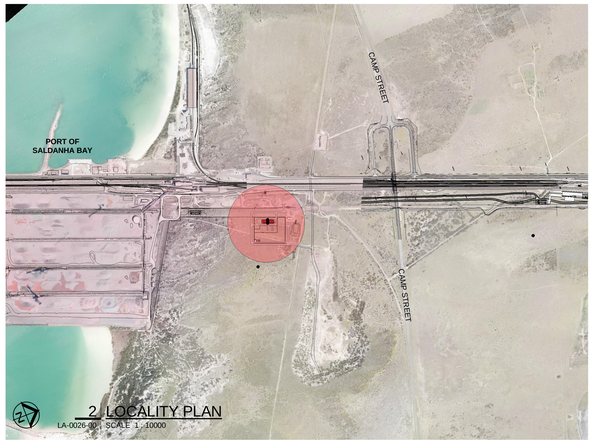

2 LOCALITY PLAN

LA-0026-00 | SCALE 1 : 10000

1 SITE PLAN

LA-0026-00 | SCALE 1 : 500

119 LH

Future Security Building

Proposed New
Access Road

107537

14657mm Boundary Line

3m High Industrial Barrier Fence

11122

Proposed New Building
AREA = 1138m²

14072

35263

53457

38183

82771

15344

ERF: PORTION 197/7

24964

12004mm Boundary Line

12004mm Boundary Line

Proposed New Road

Existing Building

14644mm Boundary Line

Proposed New Road

+-577858mm To The Nearest Major Intersection

Proposed New Road

Proposed New
Access Road

REFERENCE DRAWINGS	
DRAWING NO.	REFERENCE
1924701-2-510-A-LA-0012-02	SECTIONS
1924701-2-510-A-LA-0012-01	SECTIONS
1924701-2-510-A-LA-0063-01	ELEVATIONS
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SITE PLAN

PROJECT NUMBER							OD	FBS		DIS	TYPE	DRAWING NO.			SHEET		REV	ID
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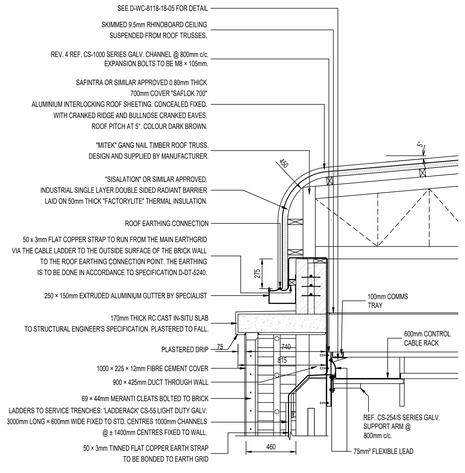
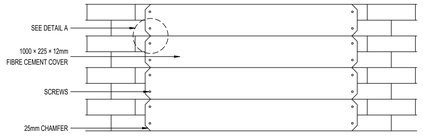


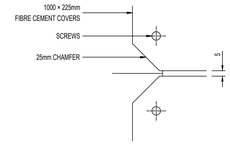
EAVE DETAIL & CABLE DUCT

SCALE 1 : 20



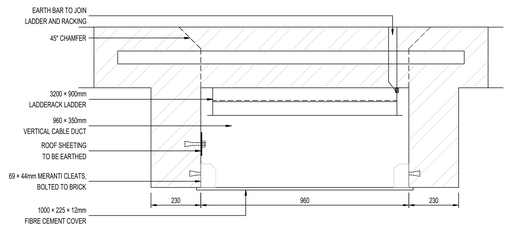
CABLE DUCT COVER DETAIL ELEVATION

SCALE : NTS



DETAIL A

SCALE : NTS



CABLE DUCT COVER DETAIL PLAN

SCALE : NTS

NOTES:

GENERAL:

THIS SPECIFICATION TO BE READ IN CONJUNCTION WITH ESKOM's STANDARD SPECIFICATION AND GENERAL CONDITIONS OF CONTRACT.
CONTRACTOR TO PAY ALL FEES IN REGARD TO SERVICES SUPPLIED BY AND FOR THE LOCAL AUTHORITY.
PORTABLE LATRINES TO BE PROVIDED AND SERVICED BY CONTRACTOR.
CONTRACTOR TO INCLUDE IN HIS PRICING FOR THE TEMPORARY SUPPLY OF WATER AND POWER FOR CONSTRUCTION PURPOSES.
SUPPLEMENTARY TO THIS DOCUMENT, THE ESKOM BATTERY ROOM STANDARD (DOCUMENT IDENTIFIER 240-56177186) IS TO BE USED AS REFERENCE.

FOUNDATIONS:

TO SIZES AND DEPTHS SHOWN. CONCRETE TO BE 30MPa STRENGTH.

WALLS:

BELOW GROUND :	TOP TWO LAYERS, BELOW GROUND LEVEL, OF THE OUTER SKIN SHALL BE NFX MASONRY UNITS OF MINIMUM 14MPa COMPRESSIVE STRENGTH. ABOVE THIS THE MASONRY UNITS ARE TO MATCH THE REST OF THE EXTERIOR FACEBRICK SKIN ABOVE GROUND LEVEL (FBX), LAID IN CLASS II MORTAR.
INTERNAL WALLS :	RED CLAY S.O.K. BRICKS (MINIMUM COMPRESSION STRENGTH 7MPa).
FIRE WALLS :	MASONRY FIRE WALLS SEPARATING BATTERY ROOM FROM ADJACENT ROOMS/SPACES TO TERMINATE AGAINST UNDERSIDE OF ROOF SHEETING. INTERNAL FIRE WALLS SHALL BE 230mm "SINGLE BRICK" WALLS, CONSTRUCTED OF MINIMUM 14MPa NFP STOCK BRICK. BRICKFORCE TO BE INSTALLED AT EVERY THIRD LAYER/COURSE. PENETRATIONS AND OPENINGS IN FIRE WALLS TO BE FIRE STOPPED TO MATCH WALL INTEGRITY AND ACCORDING TO MANUFACTURER'S APPLICATION INSTRUCTIONS.
FACEBRICKS :	COROBRIK DE HOOP RED FLUSH JOINTED FBS SMOOTH TEXTURE - IMPERIAL FORMAT - 222 × 106 × 73. TO START 1 COURSE BELOW FINAL GROUND LINE. CAVITY WALLS TO BE 110-60-110 SKINS WITH 60mm AS THE CAVITY.
BRICKFORCE :	150mm WIDE GALV. TO FIRST 4 COURSES ABOVE FOUNDATIONS AND TOP 3 COURSES BELOW WALLPLATE. GABLES 75mm WIDTH EVERY 4th COURSE TO RIDGE.
WALLTIES :	GALV. "BUTTERFLY" TYPE, 5 PER m² IN WALL. 300mm C/C AT JAMBS.
D.P.C. :	GUNPLAS "SARKIGRIP" 375 MICRONS, STEPPED AT FLOOR LEVELS IN CAVITY WALLS AND AROUND OPENINGS.
JOINTS :	FACEBRICK. 10mm RAKED. ALL OTHER JOINTS TO BE KEYED FOR PLASTERING. EVERY 4th PERPEND ABOVE STEPPED DPC TO BE RAKED CLEAR TO DRAIN CAVITY.
MORTAR :	1:4 (CEMENT:SAND).

INTERNAL WALL FINISHES:

15mm THICKNESS, SMOOTH STEEL FLOAT FINISH. MIX 1:1:6 (CEMENT:LIME:SAND). FLOOR DUCTS TO BE BAGGED.

FLOORS - CONTROL ROOM & WC:

150mm THICKNESS 30MPa POWER FLOATED CONCRETE ON 375 MICRON DPM ON SAND FILL COMPACTED IN 150mm LAYERS.
REINFORCING TO BE MESH REF. 617 CARRIED THROUGH INTO STOEP. THRESHOLDS TO BE 40mm MIN.

FLOOR - LOADING BAY:

150mm THICKNESS 30MPa POWER FLOATED CONCRETE ON 375 MICRON DPM ON SAND FILL COMPACTED IN 150mm LAYERS.
REINFORCING TO BE MESH REF. 617. THRESHOLDS TO BE 40mm MIN.
100/130mm THICK SHAPED DUE TO FALL.

FLOOR - BATTERY ROOM:

AVOID EXPANSION JOINTS. FLOOR SHALL BE GIVEN A UNIFORM CEMENT SCREED FALL, WITH A FALL / SLOPE OF NO LESS THAN 1:200 TOWARDS THE DOOR. THE DOORWAY / THRESHOLD SHALL BE ELEVATED TO FORM A BARRIER TO MINIMUM 100mm IN HEIGHT FROM ADJACENT INTERIOR FLOOR FINISH.
N.B. : FLOOR LEVELS TO BE LAYED TO A TOLERANCE OF 0.5m PER METRE WITH A MAXIMUM OF 2mm DIFFERENCE OVER THE LENGTH.

STEPS:

30MPa CONCRETE. 100mm THICK.

STOEP:

30MPa 100mm THICK WITH MESH REF 245. 30mm TOP COVER.

FLOOR FINISHES:

BATTERY ROOM:
SLOPED EPOXY SCREED WITH ACCOMPANYING PRIMER, OR APPROVED EQUIVALENT, APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. COLOUR LIGHT GREY.
FLOOR FINISH SHALL FORM A CONTINUOUS SKIRTING AGAINST THE WALL AND EXTEND TO A HEIGHT OF 100mm ABOVE LOWEST POINT OF THE FLOOR LEVEL.

CONTROL ROOM AND LOADING BAY:
SIKA "PURGO 5.5" PENETRATING CEMENT SEALER, OR APPROVED EQUIVALENT, APPLIED AS PER MANUFACTURER'S SPECIFICATION.

WC.
1 (ONE N.O.) COAT "MASTERTOP PRIMER 1200 PLUS" RESIN WITH SOLVENT No 2 WITH "MASTERTOP 1210 PLUS" AGGREGATE, OR APPROVED EQUIVALENT. TOP COAT OF LIGHT GREY "MASTERTOP 1210 PLUS".

STOEP:
GRANOLITHIC SCREED LAID TO FALL AS PER LAYOUT.

AIR BRICKS:

225 × 150mm CEMENT TYPE WITH VERMIN PROOFING, INTERNALLY AND EXTERNALLY. HEIGHT @ 2550mm AFFL.

PAINT:

INTERNAL WALLS & CEILINGS (EXCLUDING BATTERY ROOM) :	1 FILLER COAT, 2 COATS DULUX "WASH 'N WEAR" PVA, OR SIMILAR APPROVED. COLOUR WHITE. FINAL COAT TO BE APPLIED BY CONTRACTOR ONLY AFTER COMMISSIONING OF ALL ELECTRICAL EQUIPMENT BY ESKOM.
INTERNAL WALLS & CEILINGS (BATTERY ROOM ONLY) :	AKZONOBEL DULUX TRADE "TUFFCOTE WATERBASED EPOXY ENAMEL" PAINT, OR APPROVED EQUIVALENT. COLOUR WHITE. TO BE APPLIED WITH THE APPROPRIATE PREPARATION AND/OR PRIMER. FINAL FINISH TO BE A MINIMUM OF 100 MICRON THICK AND APPLIED TO THE MANUFACTURER'S INSTRUCTIONS.
RAFTER ENDS AND TIMBER :	1 COAT PINK PRIMER, 2 COATS FLAT ENAMEL.

SANITARY WARE:

WC :	VAAL SANITARY WARE PROTEA WHITE VITREOUS CHINA WITH SEAT AND LID. COBRA STAR CP STOP COCK/VALVE.
BASIN :	VAAL BANTAM 455 × 290mm WHITE VITREOUS CHINA COMPLETE WITH WALL BRACKETS, CP PLUG AND CHAIN. COBRA STAR CP COLD WATER TAP. 300 × 300mm WHITE GLAZED TILED SPLASHBACK ABOVE BASIN × 3 (THREE N.O.) TILES HIGH. 6mm FLOAT GLASS SILVER BACKED MIRROR (400 × 600mm) ABOVE BASIN TO BE PROVIDED

BATTERY ROOM & WC VENTILATION:

600 × 600 × 300mm PRECAST CONCRETE WINTEC "WINBLOK" WB66 (B) UNIT, FACTORY FITTED WITH STANDARD 20 × 6mm GALV. STEEL BURGLAR BARS BY WINTEC.

WIRE MESH TRAYS:

TRAYS TO BE AS O-LINE GRIDSPAN GS50, 600mm WIDE × 50mm HIGH WITH STD. HDG FINISH MOUNTED ON STD. OLCA22 / 650 SUPPORT ARMS FIXED TO WALL WITH M10 EXPANSION BOLTS. ARMS TO BE @ MAX. 800mm C/C. 100mm COMMS TRAY TO BE FIXED ABOVE 600mm TRAY. REFER TO DRAWING No. D-WC-8118-167-07 FOR FURTHER DETAILS.

LADDER:

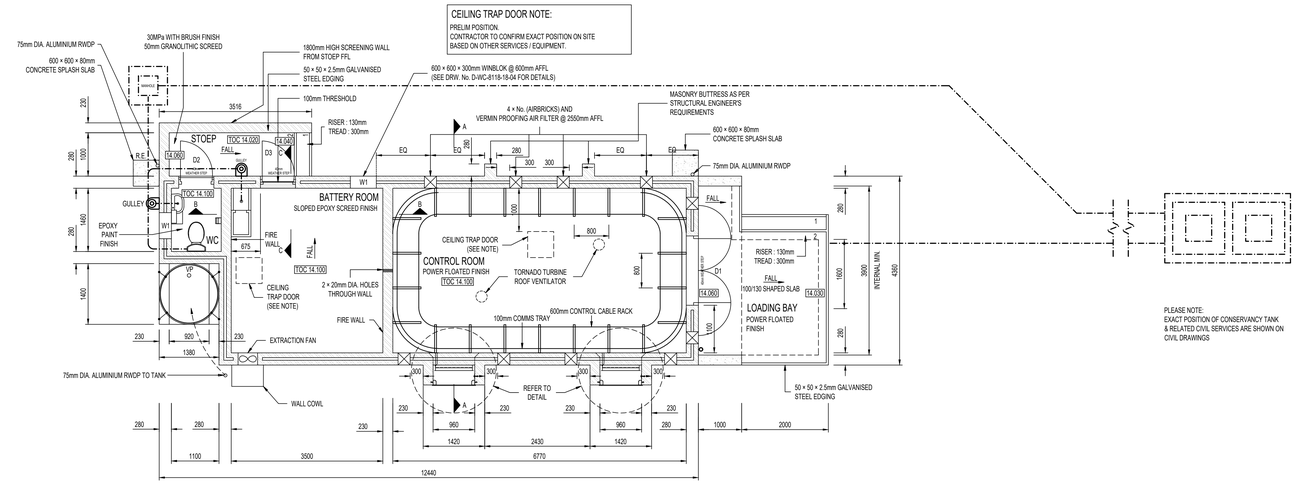
TRAY AS ABOVE SUPPORTED ON 3 / 700mm LONG OL3300 CHANNELS FIXED TO WALL @ ± 800mm C.C. LADDER TO BE 3000mm IN LENGTH. ALL CABLE TRAYS TO BE CONNECTED / BONDED FOR ELECTRICAL CONNECTIVITY TO FORM EARTH BAR.

CEILINGS (EXCLUDING BATTERY ROOM):

SKIMMED 9.5mm RHINOBOARD CEILING ON 38 × 38mm TREATED PINE BATTENS @ 500mm C/C, WITH 25 × 25mm SHADOWLINE CORNICE. CEILING HEIGHT AT 3400mm AFFL.

CEILING (BATTERY ROOM ONLY):

4mm THICK NON-COMBUSTIBLE FIBRE CEMENT PANEL SUSPENDED CEILING, OR APPROVED EQUIVALENT, ON 38 × 38mm BATTENS @ 500mm C/C's. CEILING HEIGHT AT 3400mm AFFL.



PLAN LAYOUT

SCALE 1 : 50

DRAWING NO.	REFERENCE
.	.

REFERENCE DRAWINGS

NOTES

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REG. No. 1966/006628/07

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUED FOR CONSTRUCTION	KS	JT	MT	2021-09-10

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CONTRACTOR / CONSULTANT				
TITLE	NAME	SIGN	DATE	
DRAWN	KS		21	09 10
CHECKED	DD		21	09 10
DESIGNED	MT		21	09 10
CHECKED	JT		21	09 10

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG. / PR.TECH./PR. ARCH	
NAME	M TRUSCOTT
SIGNATURE	21 09 10
REG. NUMBER	PrArch 6935
SCALE :	AS SHOWN

Transcribe Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000906/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

TRANSNET FREIGHT RAIL

YSTERVARK SUBSTATION

RELAY HOUSE BUILDING
GROUND PLAN & DETAILS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	LA	0 0 3 0	0 1	0 0	AE

SCALE : AS SHOWN — A0

NOTES:

PLEASE REFER TO SHEET 01 FOR NOTES APPLICABLE TO THIS SHEET AS WELL.

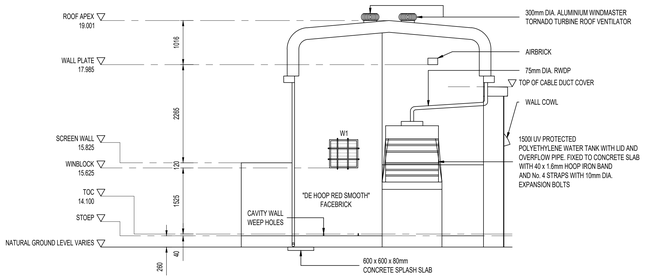
ADDITIONAL NOTES REFERRING TO ROOF STRUCTURE:

ROOF COVERING:
SAFINTRA OR SIMILAR APPROVED 0.80mm THICK 700mm COVER "SAFLOK 700" ALUMINIUM INTERLOCKING ROOF SHEETING. CONCEALED FIXED. WITH CRANKED RIDGE AND BULLNOSE CRANKED EAVES.
ROOF PITCH AT 5°. COLOUR DARK BROWN.

ROOF TRUSSES:
114 x 38mm RAFTERS TO BE FIXED TO WALLPLATES & TIED DOWN WITH HOOP IRON.
DESIGN AND SUPPLY BY OTHERS.

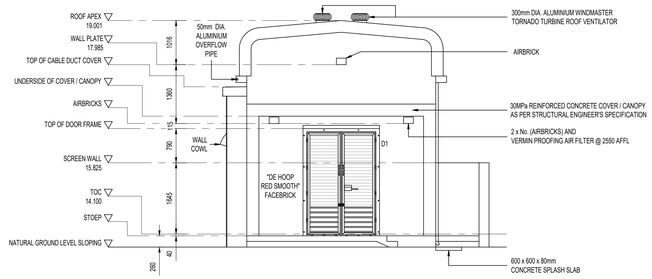
WALLPLATES:
114 x 38mm FIXED MIN. 600mm INTO BRICKWORK WITH GALV. HOOP IRON STRAPS.

SISALATION:
FR430 FIRE RETARDENT ALUMINIUM FOIL INSULATION. INSTALLED AS PER MANUFACTURER'S SPECIFICATION.
INDUSTRIAL SINGLE LAYER DOUBLE SIDED RADIANT BARRIER LAID ON 50mm THICK 'FACTORYLITE'
THERMAL INSULATION.



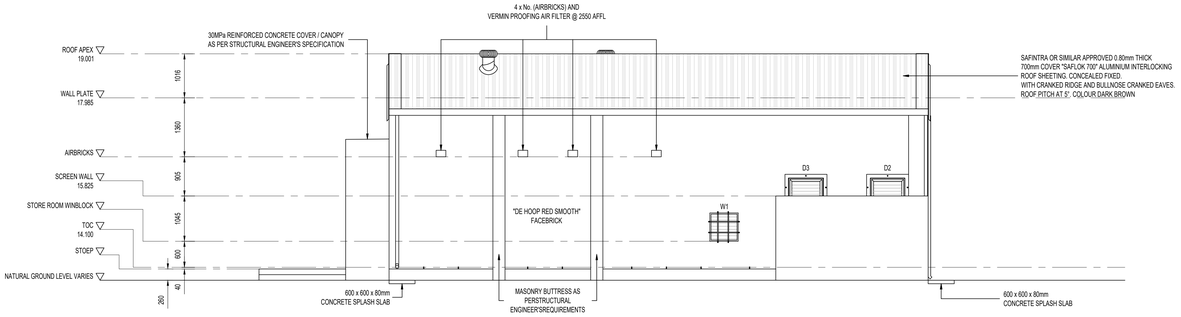
NORTH WEST ELEVATION

SCALE 1 : 50



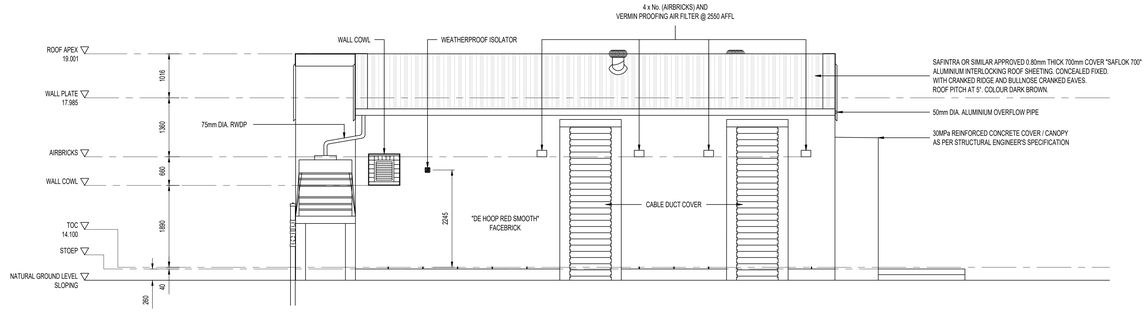
SOUTH EAST ELEVATION

SCALE 1 : 50



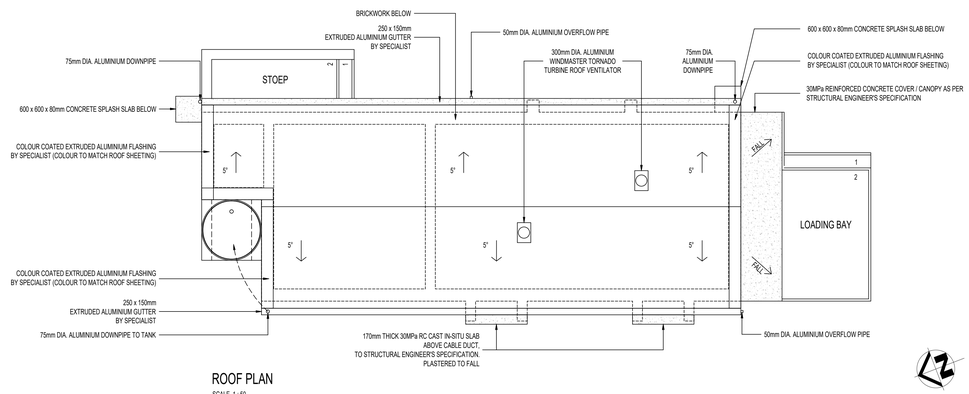
SOUTH WEST ELEVATION

SCALE 1 : 50



NORTH EAST ELEVATION

SCALE 1 : 50



ROOF PLAN

SCALE 1 : 50

DRAWING NO.	REFERENCE
.	.

REFERENCE DRAWINGS

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NO.	DESCRIPTION	BY	CHKD	APPD	DATE
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CONTRACTOR / CONSULTANT				TRANSNET CAPITAL PROJECTS			
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DRAWN	KS		21 09 10	.	.		. . .
CHECKED	DD		21 09 10	.	.		. . .
DESIGNED	MT		21 09 10	.	.		. . .
CHECKED	JT		21 09 10	.	.		. . .
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OPERATING DIVISIONS				.	.		. . .
TITLE	NAME	SIGN	DATE	**PR.ENG. / PR.TECH./PR. ARCH**			
.	.		. . .	NAME	M TRUSCOTT		DATE
.	.		. . .	SIGNATURE			21 09 10
.	.		. . .	REG. NUMBER	PrArch 6935		
.	.		. . .	SCALE :	AS SHOWN		

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000905/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 LOYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

TRANSNET FREIGHT RAIL

YSTERVARK SUBSTATION

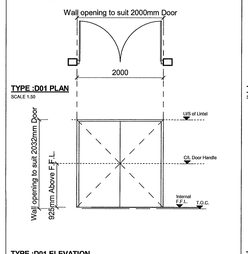
RELAY HOUSE BUILDING
ELEVATIONS & ROOF PLAN

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
192470125105	A	LA	003	101		00	AE	

SCALE : AS SHOWN — A0

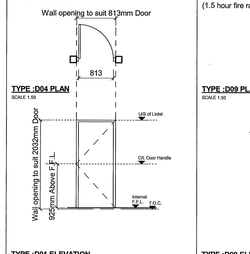
DOOR TYPE: D01

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR



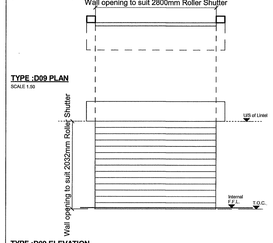
DOOR TYPE: D04

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR



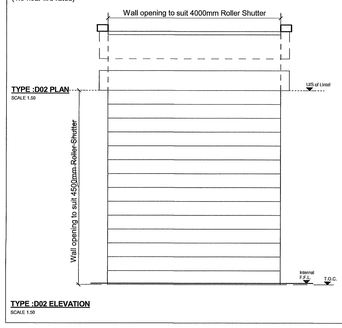
DOOR TYPE: D09

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED (1.5 hour fire rated)



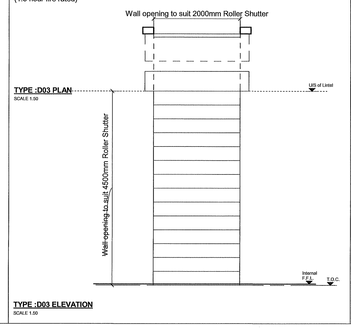
DOOR TYPE: D02

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED (1.5 hour fire rated)



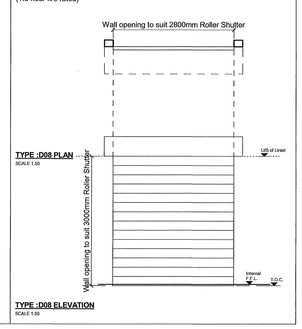
DOOR TYPE: D03

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED (1.5 hour fire rated)



DOOR TYPE: D08

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED (1.5 hour fire rated)



DOOR LEGEND

SCALE 1 : 50

DOOR SCHEDULE

Level	Door Type	From Room: Name	Door Number	Width	Height	Fire Rating	Frame Material	Panel Material	Frame & Panel Finish
-01 LEVEL	D01	SERVICE LVL 1	1	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	FIRE STAIR 1	6	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	FIRE STAIR 2	3	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	FIRE STAIR 2	4	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	SERVICE LVL 1	5	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D09	SERVICE LVL 1	2	2800	2032	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
-01 LEVEL: 6									
00 LEVEL	D01	ACCESS HALL	19	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D01	LOADING PLATFORM	7	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D01	LOBBY	20	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	ACCESS HALL	9	4000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	TRANSFORMER ROOM 1	17	4000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	TRANSFORMER ROOM 2	14	4000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	TRANSFORMER ROOM 3	11	4000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 1	18	2000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 2	16	2000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 3	15	2000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 4	13	2000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 5	12	2000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 6	10	2000	4500	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D04	FIRE STAIR 3	21	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D04	FIRE STAIR 4	8	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL: 15									
01 LEVEL	D04	A/C 5	22	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	FIRE STAIR 5	26	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	FIRE STAIR 6	25	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	SERVICE LVL 2	23	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D09	SERVICE LVL 2	24	2800	2032	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL: 5									
02 LEVEL	D01	FIRE STAIR 7	37	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	LOBBY 01	36	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	LOBBY 01	35	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	LOBBY 02	32	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	MV SWITCHGEAR DEDICATED MONITORING & CONTROL ROOM	31	2000	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	CONVEYOR MONITORING & CONTROL ROOM	27	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	FIRE STAIR 8	29	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	LOADING PLATFORM	28	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	MV SWITCHGEAR ROOM	34	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D08	LOBBY 02	33	2800	3000	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
02 LEVEL	D08	LOBBY 02	30	2800	3000	1.5 Hour	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
02 LEVEL: 11									
03 LEVEL	D04	FIRE STAIR 9	38	813	2032	2 Hour	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
03 LEVEL: 1									

RECEIVED
13 JUN 2016
AECOM TRANSNET

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-SC-0031-01	IRONMONGERY SCHEDULE
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT

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. REFER TO IRONMONGERY SCHEDULE
4. ALL DOOR FINISHES EQUAL AND APPROVED

AECOM
CAPE TOWN OFFICE
WATERSIDE PLACE, SOUTH GATE
TYGER WATERFRONT
CARL CRONJE DRIVE

TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
OD	SPECIFICATIONS UPDATED - ISSUE FOR TENDER	K.K	R.S	D.T	13/06/2016
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	K.K	13 06 16
CHECKED	RS	R.S.	13 06 16
DESIGNED	BE	B.E	20 05 16
CHECKED	DT	D.T	13 06 16

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		13 06 16
REG. NUMBER	7343	

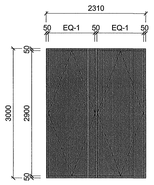
SCALE: 1:50 A0

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS): REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
DOOR SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0019	01	OD	AE



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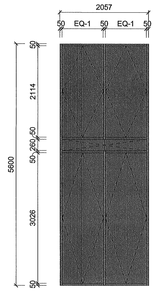

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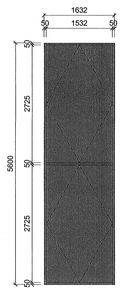

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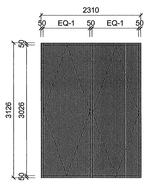

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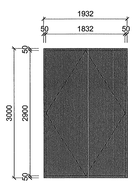

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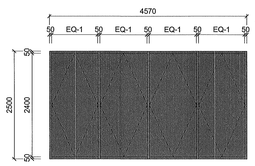

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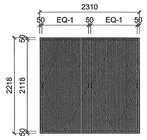

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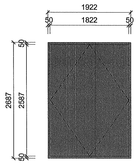

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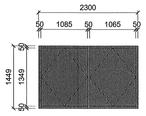

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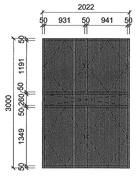

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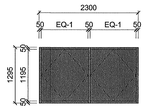

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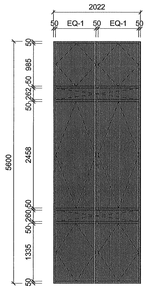

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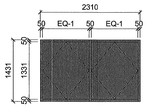

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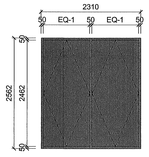

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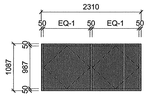

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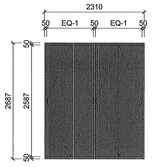

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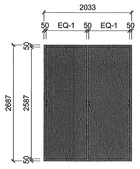

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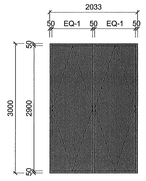

18 | SF18
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Assembly Schedule SF			
Type	Count	Panel Material	Frame Material
SF01	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF02	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF03	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF04	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF05	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF06	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF07	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF08	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF09	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF10	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF11	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF12	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF13	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF14	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF15	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF16	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF17	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF18	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)

1. SHOP DRAWING TO BE SUPPLIED BY MANUFACTURER FOR ARCHITECTS APPROVAL, SAMPLE REQUIRED

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20 MAY 2016
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REFERENCE	
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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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 GLAZING EQUAL AND APPROVED

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

REVISIONS

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK		20 05 16
CHECKED	RS		20 05 16
DESIGNED	BE		20 05 16
CHECKED	DT		20 05 16

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		20 05 16
REG. NUMBER	7343	
SCALE:	1:50	A0

Transcribe Capital Projects
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163 LWS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1909
FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
SHOPFRONT SCHEDULE

PROJECT NUMBER							OD	FBS		DIS	TYPE	DRAWING NO.				SHEET		REV	ID
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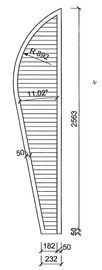

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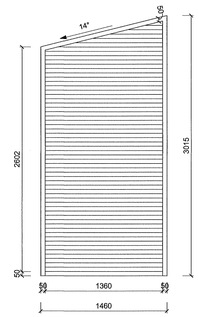

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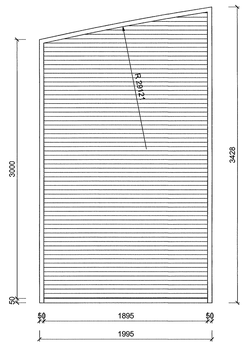

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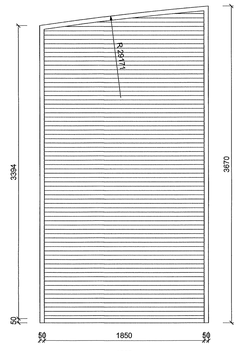

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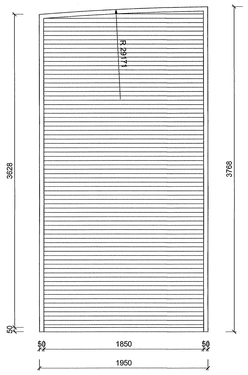

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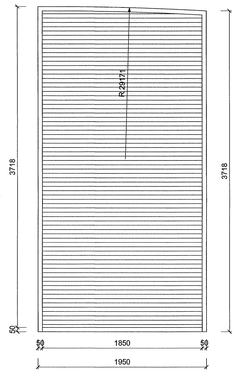

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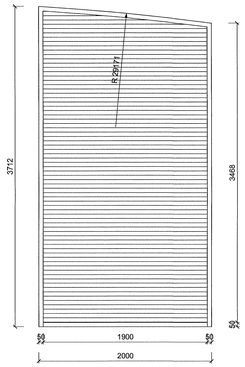

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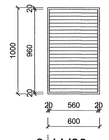

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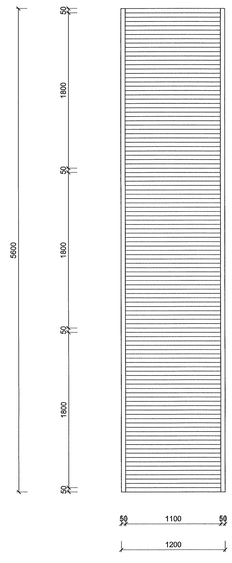

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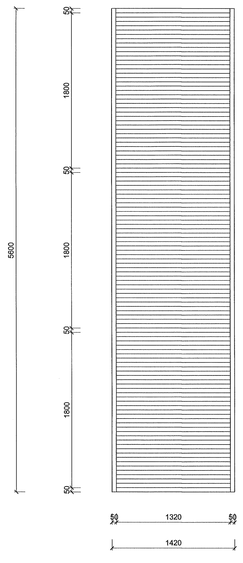

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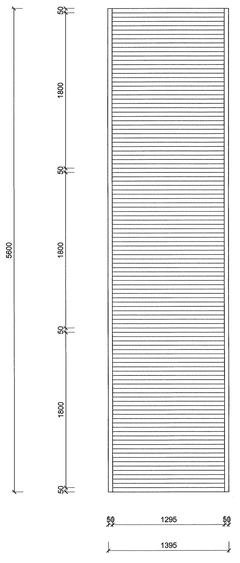

11 | LV11
SC-0021 | SCALE 1 : 25

Assembly Schedule LV

Type	Count	Panel Material	Frame Material
LV01	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV02	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV03	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV04	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV05	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV06	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV07	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV08	26	Metal - Aluminum Louvre	'TROX' ARK 2 Pressure Relief Damper Louvre with 50mm Flange (Colour TBC)
LV09	3	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV10	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV11	2	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)

1. SHOP DRAWING & SAMPLE REQUIRED

RECEIVED
13 JUN 2016
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DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
OD	SPECIFICATIONS UPDATED - ISSUE FOR TENDER	K.K	R.S	D.T	13/06/2016
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

REVISIONS

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK	K. K.	13 06 16
CHECKED	RS	R.S	13 06 16
DESIGNED	BE	B.E	20 06 16
CHECKED	DT	D.T	13 06 16

PR.ENG./PR.TECH./PR.ARCH	
NAME	JEREK THOMAS
SIGNATURE	
REG. NUMBER	7343
SCALE:	1:25

Transnet Capital Projects
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TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
LOUVRE SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0021	01	OD	AE

A0

ROOM SCHEDULE

Level	Room Name	Area	Floor Finish & Skirting	Wall Finish	Waterproofing to Walls	Ceiling Finish
-01 LEVEL	A/C 1	15.05 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL	BL. DUCT 1	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	BL. DUCT 2	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	BL. DUCT 3	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	BL. DUCT 4	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	FIRE STAIR 1	22.53 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL	FIRE STAIR 2	22.45 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL	SERVICE LVL 1	413.84 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL: 8		495.72 m²				
00 LEVEL	A/C 2	15.31 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	A/C 3	15.12 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	ACCESS HALL	108.94 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	BL. DUCT 1	5.42 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL. DUCT 2	5.48 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL. DUCT 3	5.48 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL. DUCT 4	5.48 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	FIRE STAIR 3	24.45 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	FIRE STAIR 4	23.60 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	LOADING PLATFORM	23.17 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	N/A	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	LOBBY	22.45 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	TRANSFORMER ROOM 1	35.64 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	TRANSFORMER ROOM 2	36.38 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	TRANSFORMER ROOM 3	35.70 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 1	13.35 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 2	13.55 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 3	13.32 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 4	13.32 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 5	13.42 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 6	13.35 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL: 20		442.95 m²				
01 LEVEL	A/C 4	15.62 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	A/C 5	15.11 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	BL. DUCT 1	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 2	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 3	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 4	5.47 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	FIRE STAIR 5	24.36 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	FIRE STAIR 6	25.25 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	LOADING PLATFORM	13.56 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	N/A	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	SERVICE LVL 2	385.85 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL: 10		501.61 m²				
02 LEVEL	A/C 6	23.90 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	BL. DUCT 1	9.06 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	BL. DUCT 2	10.01 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	BL. DUCT 3	9.96 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	BL. DUCT 4	8.64 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	CONVEYOR MONITORING & CONTROL ROOM	23.85 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600x600x35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's guidelines	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mmx595mm ceilings installed as per manufacturer's guidelines, equal and approved
02 LEVEL	FIRE STAIR 7	24.49 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	FIRE STAIR 8	25.26 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	LOADING PLATFORM	4.86 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	N/A	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	LOBBY 01	16.73 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	LOBBY 02	23.93 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	LV ROOM	28.05 m²	PENTAFLOOR - HPL 600 X 600mm (Solid tile code: H-2201) High Pressure Laminate of Thickness 1.5mm Smart Edge	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mmx595mm ceilings installed as per manufacturer's guidelines, equal and approved
02 LEVEL	MV SWITCHGEAR DEDICATED MONITORING & CONTROL ROOM	20.25 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600x600x35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's guidel	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mmx595mm ceilings installed as per manufacturer's guidelines, equal and approved
02 LEVEL: 13		228.98 m²				
03 LEVEL	BL. DUCT 1	10.25 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
03 LEVEL	BL. DUCT 2	10.28 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
03 LEVEL	BL. DUCT 3	10.28 m²	N/A	Bag and apply one coat Acrylic PVA paint	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
03 LEVEL	CHILLER PLANT ROOM	Not Enclosed	Sikalastic 841-ST - spray applied pure polyurea waterproof membrane. Colour : grey (RAL 7005). Installed as per manufacturer's guidelines.	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	1.6mm x 2.5mm x 25mm 316L powder coated stainless steel woven mesh fixed to steel purlins using 2.0mm x 70mm(w) galvanised steel plate and bolts fixed along the length of the purlin at 500mm centres.
03 LEVEL	FIRE STAIR 9	12.21 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mmx595mm ceilings installed as per manufacturer's guidelines, equal and approved
03 LEVEL	MV SWITCHGEAR ROOM	271.18 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000). Apply strictly according to manufacturer's equal and apporved guidelines.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mmx595mm ceilings installed as per manufacturer's guidelines, equal and approved
03 LEVEL: 6		314.20 m²				
Grand total: 57		1983.46 m²				

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-SE-0007-01	SECTIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT

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. WHERE COLUMNS AND BEAMS ARE VISIBLE: SURFACES TO BE OFF SHUTTER FOR BAGWASH AND PAINT

RECEIVED
25-May-16
AECOM TRANSNET

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REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	KK	20 05 16
CHECKED	RS	RS	20 05 16
DESIGNED	BE	[signature]	20 05 16
CHECKED	DT	[signature]	20 05 16

PR.ENG./PR.TECH./PR.ARCH
NAME: DEREK THOMAS
SIGNATURE: [signature] DATE: 20 05 16
REG. NUMBER: 7343
SCALE: N/A A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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TRANSNET

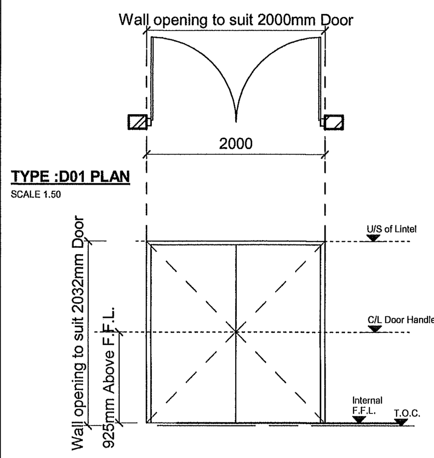
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
ROOM FINISH SHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0022	01	OC	AE

DOOR TYPE: D01

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR



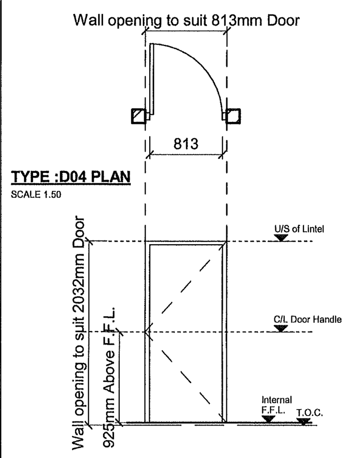
TYPE :D01 PLAN
SCALE 1.50

SCALE 1.50

TYPE :D01 ELEVATION

DOOR TYPE: D04

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR

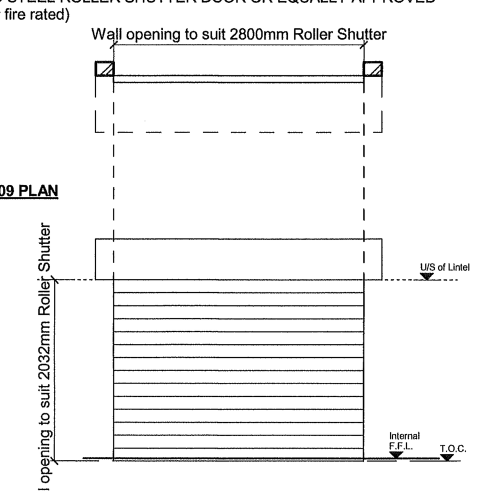


TYPE :D04 PLAN
SCALE 1.50

TYPE :D01 ELEVATION
SCALE 1.50

DOOR TYPE: D09

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED
(1.5 hour fire rated)

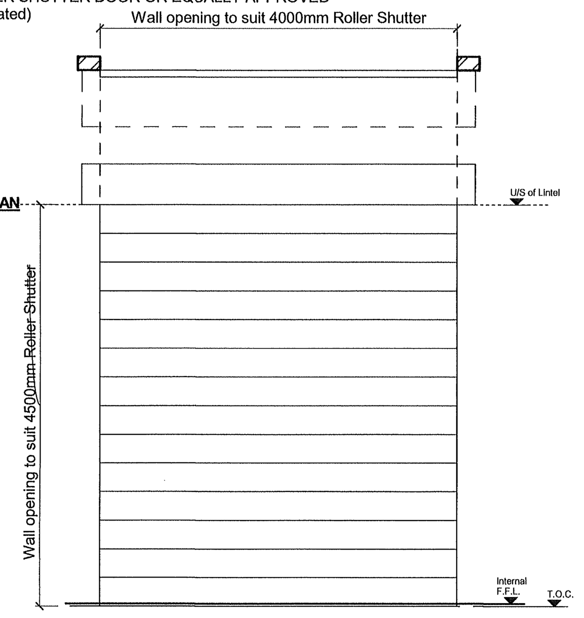


TYPE :D09 PLAN
SCALE 1.50

TYPE :D09 ELEVATION
SCALE 1.50

DOOR TYPE: D02

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED
(1.5 hour fire rated)



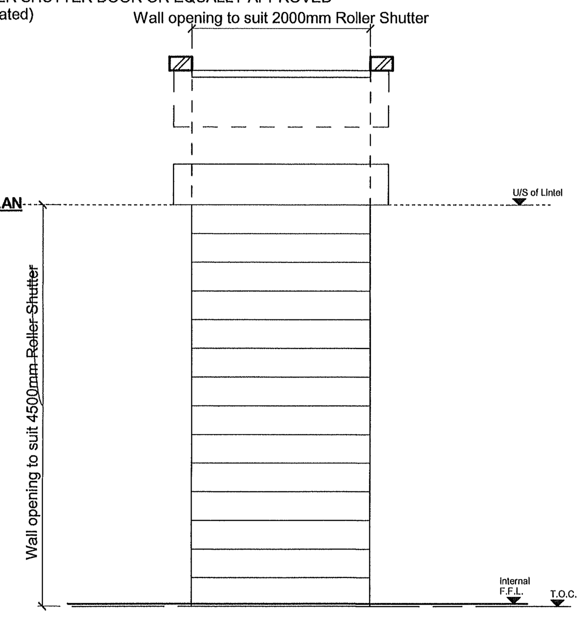
SCALE 1.50

TYPE :D02 PLAN

TYPE :D02 ELEVATION
SCALE 1.50

DOOR TYPE: D03

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED
(1.5 hour fire rated)

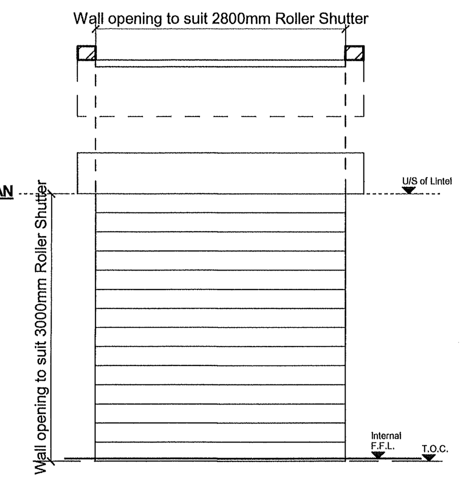


TYPE :D03 PLAN
SCALE 1.50

TYPE :D03 ELEVATION
SCALE 1.50

DOOR TYPE: D08

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED
(1.5 hour fire rated)



TYPE :D08 PLAN
SCALE 1.50

TYPE :D08 ELEVATION
SCALE 1.50

DOOR LEGEND

SCALE 1 : 50

DOOR SCHEDULE

Level	Door Type	From Room: Name	Door Number	Width	Height	Fire Rating	Frame Material	Panel Material	Frame & Panel Finish
-01 LEVEL	D01	A/C 1	1	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	FIRE STAIR 2	6	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	FIRE STAIR 1	3	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	FIRE STAIR 1	4	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D04	SERVICE LVL 1	5	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
-01 LEVEL	D09	SERVICE LVL 1	2	2800	2032	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
-01 LEVEL: 6									
00 LEVEL	D01	LOBBY	24	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D01	ACCESS HALL	23	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D01	LOADING PLATFORM	7	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	ACCESS HALL	9	4000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	ACCESS HALL	21	4000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	TRANSFORMER ROOM 2	18	4000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	ACCESS HALL	15	4000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 1	22	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 2	20	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 3	19	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 4	17	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 5	16	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 6	14	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 8	10	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 7	13	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	ACCESS HALL	12	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	VSD ROOM 9	11	2000	4500	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL	D04	FIRE STAIR 4	25	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D04	FIRE STAIR 3	8	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL: 19									
01 LEVEL	D04	FIRE STAIR 6	30	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	FIRE STAIR 5	28	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	SERVICE LVL 2	27	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	A/C 5	26	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D09	SERVICE LVL 2	29	2800	2032	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL: 5									
02 LEVEL	D01	LOBBY 1	39	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	FIRE STAIR 8	40	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	LOBBY 1	41	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	LOBBY 2	36	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D01	MV SWITCHGEAR DEDICATED MONITORING & CONTROL ROOM	35	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	SUBSTATION BLD & CONVEYOR MONITORING & CONTROL ROOM	31	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	LOADING PLATFORM	32	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	FIRE STAIR 7	34	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	LOBBY 2	37	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D08	LOBBY 2	33	2800	3000	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
02 LEVEL	D08	LOBBY 2	38	2800	3000	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
02 LEVEL: 11									
03 LEVEL	D04	FIRE STAIR 9	42	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
03 LEVEL: 1									

RECEIVED
13 JUN 2016
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REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-SC-0032-01	IRONMONGERY SCHEDULE
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-DE-0008-02	SECTIONS
1924701-2-510-A-DE-0008-01	SECTIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT

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. REFER TO IRONMONGERY SCHEDULE
4. ALL DOOR FINISHES EQUAL AND APPROVED

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FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
OD	SPECIFICATIONS UPDATED - ISSUE FOR TENDER	K.K	R.S	D.T	13/06/2016
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	B.E	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	K.K	13 06 16
CHECKED	RS	RS	13 06 16
DESIGNED	BE	BE	20 05 16
CHECKED	DT	[signature]	13 06 16

PR.ENG./PR.TECH./PR.ARCH

NAME: DEREK THOMAS
SIGNATURE: [signature] DATE: 13 06 16
REG. NUMBER: 7343
SCALE: 1:50
A0

Transnet Capital Projects
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TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
DOOR SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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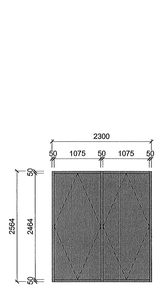

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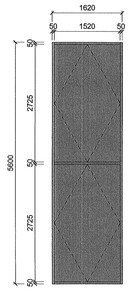

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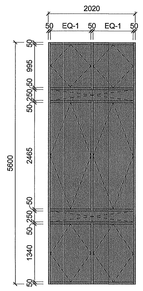

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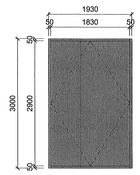

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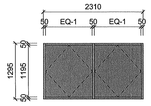

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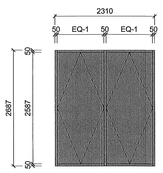

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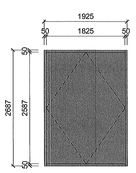

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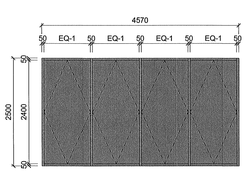

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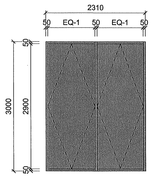

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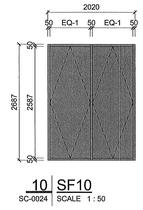

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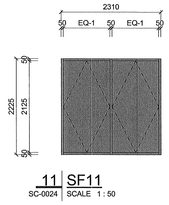

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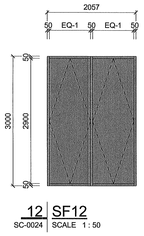

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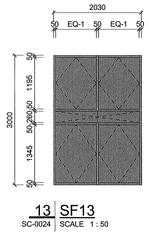

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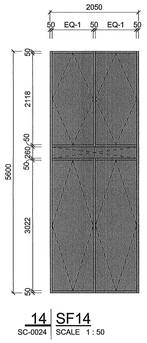

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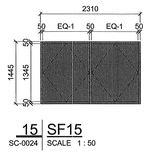

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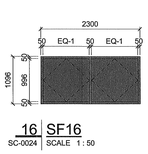

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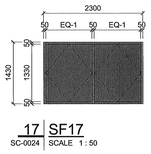

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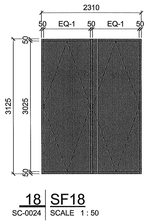

18 | SF18
SC-0024 | SCALE 1 : 50

Assembly Schedule SF			
Type	Count	Panel Material	Frame Material
SF01	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF02	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF03	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF04	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF05	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF06	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF07	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF08	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF09	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF10	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF11	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF12	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF13	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF14	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF15	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF16	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF17	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF18	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)

1. SHOP DRAWING TO BE SUPPLIED BY MANUFACTURER FOR ARCHITECTS APPROVAL, SAMPLE REQUIRED

RECEIVED
20 MAY 2016
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-DE-0008-02	SECTIONS
1924701-2-510-A-DE-0008-01	SECTIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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 GLAZING EQUAL AND APPROVED

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

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OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK		20 05 16
CHECKED	RS		20 05 16
DESIGNED	BE		20 05 16
CHECKED	DT		20 05 16

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		20 05 16
REG. NUMBER	7343	
SCALE:	1:50	A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000009/06
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163 LYTS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
SHOPFRONT SCHEDULE

PROJECT NUMBER	ODI	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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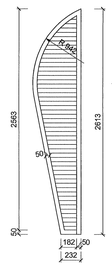

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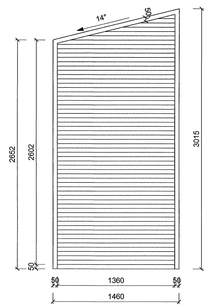

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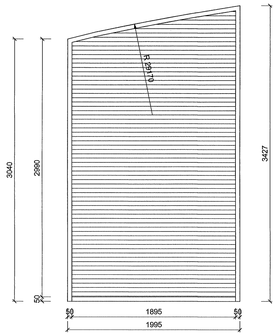

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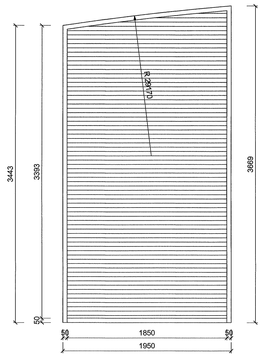

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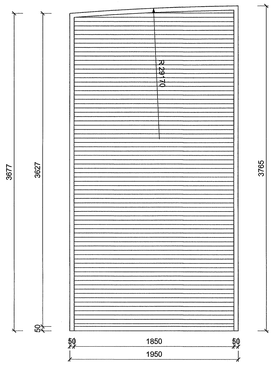

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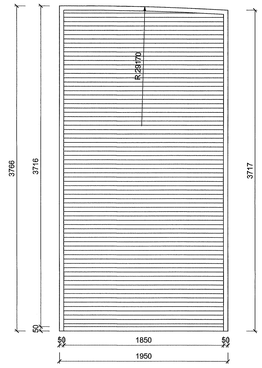

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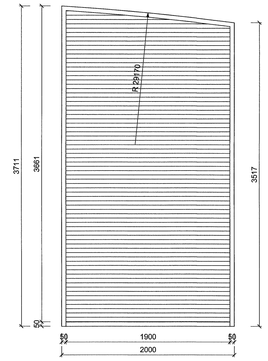

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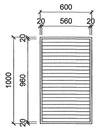

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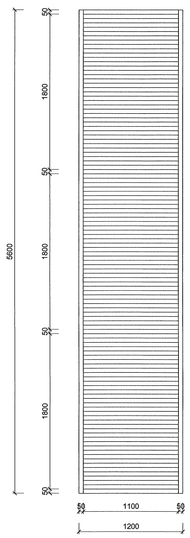

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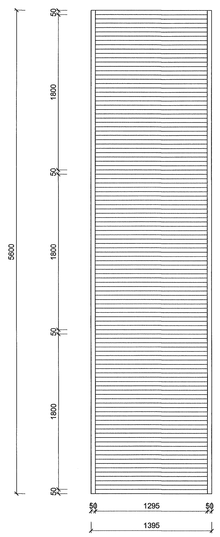

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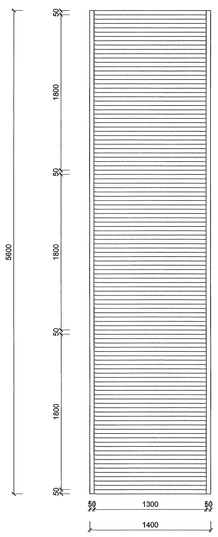

11 | LV11
SC-0025 | SCALE 1 : 25

Assembly Schedule LV			
Type	Count	Panel Material	Frame Material
LV01	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV02	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV03	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV04	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV05	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV06	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV07	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV08	34	Metal - Aluminum Louvre	'TROX' ARK 2 Pressure Relief Damper Louvre with 50mm Flange (Colour TBC)
LV09	5	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV10	2	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV11	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)

1. SHOP DRAWING & SAMPLE REQUIRED

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13 JUN 2016
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REFERENCE DRAWINGS	
DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-DE-0008-02	SECTIONS
1924701-2-510-A-DE-0008-01	SECTIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT

NOTES

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
OD	SPECIFICATIONS UPDATED - ISSUE FOR TENDER	K.K	R.S	D.T	13/06/2016
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	B.E	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK	KK	13 06 16
CHECKED	RS	RC	13 06 16
DESIGNED	BE		20 05 16
CHECKED	DT		13 06 16

PR.ENG./PR.TECH./PR.ARCH	
NAME	DEREK THOMAS
DATE	13 06 16
SIGNATURE	
REG. NUMBER	7343
SCALE:	1:25

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TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
LOUVRE SCHEDULE

PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.				SHEET	REV	ID
A0	1	9	2	4	7	0	1	2	5	1	0	A	S	C	0	0	2	5	0	1	OD	AE

1	2	3	4	5	6	7	8

ROOM SCHEDULE

Level	Name	Area	Floor Finish & Skirting	Wall Finish	Waterproofing to Walls	Ceiling Finish
-01 LEVEL	A/C 1	14.87 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL	BL. DUCT 1	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	BL. DUCT 2	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	BL. DUCT 3	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	BL. DUCT 4	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
-01 LEVEL	FIRE STAIR 1	22.53 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL	FIRE STAIR 2	22.35 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL	SERVICE LVL 1	535.26 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
-01 LEVEL: 8						
00 LEVEL	A/C 2	15.12 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	A/C 3	15.12 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	ACCESS HALL	157.14 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
00 LEVEL	BL. DUCT 1	5.77 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL. DUCT 2	5.50 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL. DUCT 3	5.50 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL.DUCT 4	5.50 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	FIRE STAIR 3	23.85 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	FIRE STAIR 4	24.42 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	LOADING PLATFORM	23.91 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	N/A	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	LOBBY	22.77 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	TRANSFORMER ROOM 1	35.61 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	TRANSFORMER ROOM 2	35.49 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	TRANSFORMER ROOM 3	35.49 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 1	13.35 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 2	13.55 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 3	13.32 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 4	13.55 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 5	13.32 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 6	13.55 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 7	13.32 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 8	13.35 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 9	13.35 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	VSD ROOM 10	13.33 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL: 24						
01 LEVEL	A/C 4	16.43 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	A/C 5	14.91 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	BL. DUCT 1	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 2	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 3	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 4	5.49 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	FIRE STAIR 5	25.25 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	FIRE STAIR 6	24.27 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	SERVICE LVL 2	506.83 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL: 9						
02 LEVEL	A/C 6	24.33 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
02 LEVEL	BL. DUCT 1	9.83 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	BL. DUCT 2	10.20 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	BL. DUCT 3	10.11 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	BL. DUCT 4	10.12 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	FIRE STAIR 7	25.26 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	FIRE STAIR 8	24.59 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	LOADING PLATFORM	4.83 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	N/A	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
02 LEVEL	LOBBY 1	16.70 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	LOBBY 2	33.44 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL	LV ROOM	39.27 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600 x 600 x 35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's gu	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
02 LEVEL	MV SWITCHGEAR DEDICATED MONITORING & CONTROL ROOM	28.46 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600 x 600 x 35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's gu	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
02 LEVEL	MV SWITCHGEAR ROOM	359.09 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
02 LEVEL	SUBSTATION BLD & CONVEYOR MONITORING & CONTROL ROOM	23.85 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600 x 600 x 35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's guidelines.	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
02 LEVEL: 14						
03 LEVEL	CHILLER PLANT ROOM	64.83 m²	Sikalastic 841-ST - Spray applied pure polyurea waterproof membrane. Colour : Grey (RAL 7005). Installed as per manufacturer's guidelines.	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	1.6mm x 25mm x 25mm powder coated 316L stainless steel woven mesh fixed to steel purlin using 2.0mm x 70mm (w) galvanised steel plate & bolts fixed along the length of the purlin using @ 500mm centres.
03 LEVEL	FIRE STAIR 9	12.19 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
03 LEVEL: 2						
Grand total: 57						

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-DE-0008-02	SECTIONS
1924701-2-510-A-DE-0008-01	SECTIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT

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. WHERE COLUMNS AND BEAMS ARE VISIBLE: SURFACES TO BE OFF SHUTTER FOR BAGWASH AND PAINT

RECEIVED
25-May-16
AECOM TRANSNET

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REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE		
DRAWN	KK	K.K.	20	05	16
CHECKED	RS	RS	20	05	16
DESIGNED	BE	BE	20	05	16
CHECKED	DT	[signature]	20	05	16

PR.ENG./PR.TECH./PR.ARCH

NAME: DEREK THOMAS DATE
SIGNATURE: [signature] 20 05 16
REG. NUMBER: 7343
SCALE: N/A A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS): REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455
TRANSNET

PORT OF SALDANHA

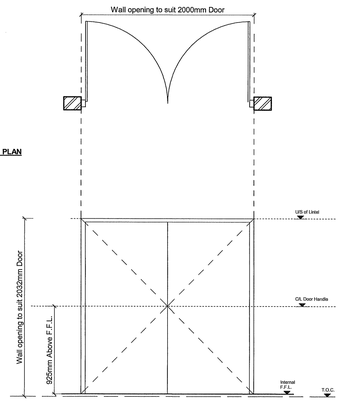
IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
ROOM FINISH SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	S C	0 0 2 6	0 1	O C	AE

1	2	3	4	5	6	7	8

DOOR TYPE: D01

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR



TYPE :D01 PLAN

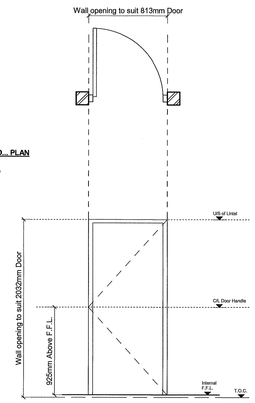
SCALE 1:50

TYPE :D01 ELEVATION

SCALE 1:50

DOOR TYPE: D02

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR



TYPE D... PLAN

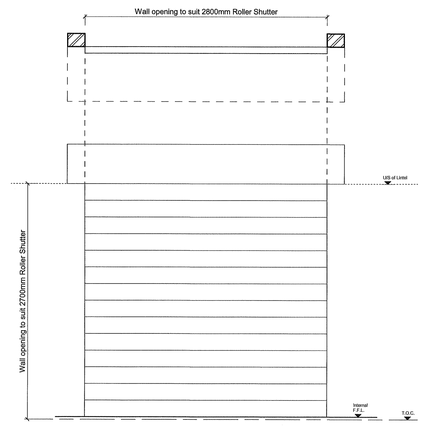
SCALE 1:50

TYPE D ... ELEVATION

SCALE 1:50

DOOR TYPE: R03

SERRANDA GALVANISED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED



TYPE D... PLAN

SCALE 1:50

TYPE D ... ELEVATION

SCALE 1:50

DOOR LEGEND

SCALE 1 : 25

DOOR SCHEDULE

Level	Door Type	From Room: Name	Door Number	Width	Height	Fire Rating	Frame Material	Panel Material	Finish
00 LEVEL	D01	FIRE STAIR 1	6	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D01	FIRE STAIR 1	7	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D01	SERVICE LVL 1	5	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	SERVICE LVL 2	1	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	FIRE STAIR 2	2	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D02	STORE ROOM 1	4	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	SERVICE LVL 2	3	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
00 LEVEL: 7									
01 LEVEL	D01	FIRE STAIR 3	27	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	HVAC ROOM	26	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	MV SWITCHGEAR ROOM	20	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	STORE ROOM 2	32	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	LOADING DECK	8	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	FIRE STAIR 3	28	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	MV SWITCHGEAR ROOM	10	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	LV ROOM	13	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	SCADA ROOM	16	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	METERING ROOM	19	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	RELAY ROOM	22	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	MV SWITCHGEAR ROOM	25	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	MV SWITCHGEAR ROOM	17	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	STORE ROOM 2	9	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	MV SWITCHGEAR ROOM	30	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D02	MV SWITCHGEAR ROOM	31	813	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	HVAC ROOM	23	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	RELAY ROOM	21	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	METERING ROOM	18	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	ACCESS HALL	14	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	LV ROOM	12	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	ACCESS HALL	11	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	ACCESS HALL	24	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	ACCESS HALL	15	2800	2700	1.5 HOUR	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLEsS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL: 24									
02 LEVEL	D01	CHILLER PLANT ROOM	29	2000	2032	2 HOUR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL: 1									

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13 JUN 2016
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1924701-2-510-A-SC-0033-01	IRONMONGERY SCHEDULE
1924701-2-510-A-DE-0039-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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. REFER TO IRONMONGERY SCHEDULE
4. ALL DOOR FINISHES EQUAL AND APPROVED

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
OD	SPECIFICATIONS UPDATED - ISSUE FOR TENDER	K.K	R.S	D.T	13/06/2016
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

REVISIONS

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		13 06 16
REG. NUMBER	7343	

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK		13 06 16
CHECKED	RS		13 06 16
DESIGNED	BE		20 05 16
CHECKED	DT		13 06 16

Transnet Capital Projects
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TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
DOOR SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	02	5510	A	SC	0027	01	OD	AE

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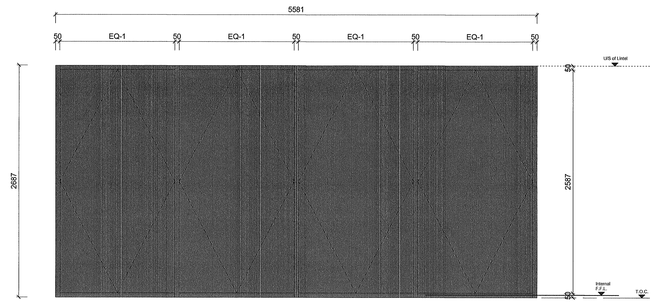

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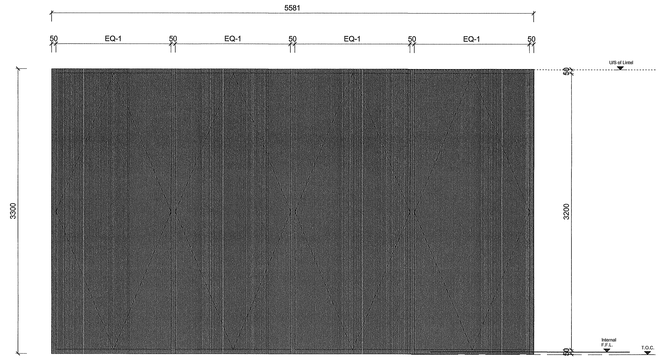

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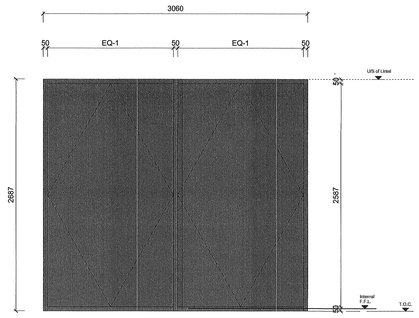

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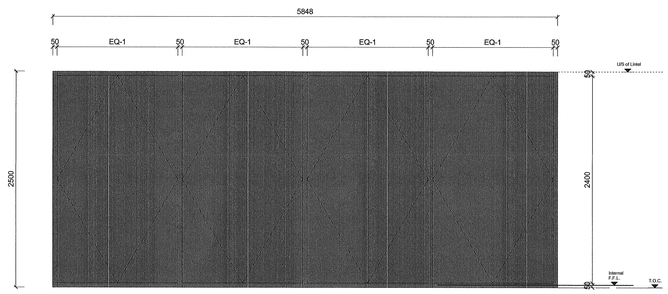
SC-0028 | SCALE 1 : 25



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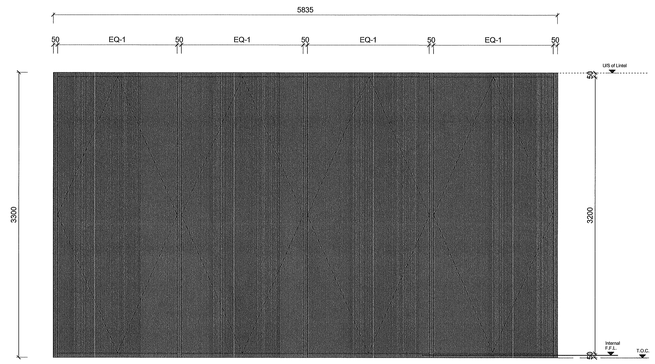

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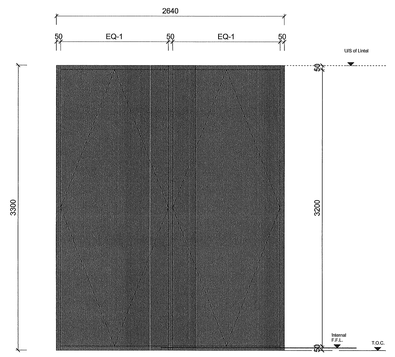

6 | SF06
SC-0028 | SCALE 1 : 25

Assembly Schedule SF

Type	Count	Panel Material	Frame Material
SF01	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF02	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF03	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF04	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF05	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)
SF06	1	SINGLE GLAZING : 6.38mm Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads	Powder Coated Aluminium (Colour TBC)

1. SHOP DRAWING TO BE SUPPLIED BY MANUFACTURER FOR ARCHITECTS APPROVAL, SAMPLE REQUIRED

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20 MAY 2016
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DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0039-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

REVISIONS

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DESIGNED	BE		20 05 16
CHECKED	DT		20 05 16

PR.ENG./PR.TECH./PR.ARCH	
NAME	DEREK THOMAS
DATE	
SIGNATURE	20 05 16
REG. NUMBER	7343

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FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SHOPFRONT SCHEDULE

PROJECT NUMBER				OID		FBS			DIS	TYPE	DRAWING NO.				SHEET		REV	ID
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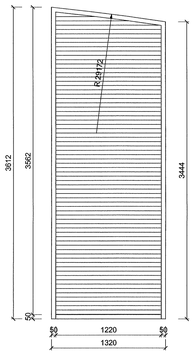

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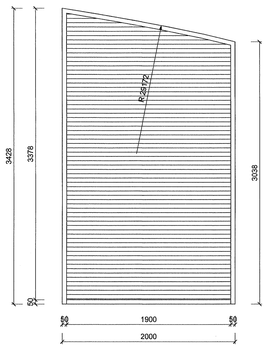

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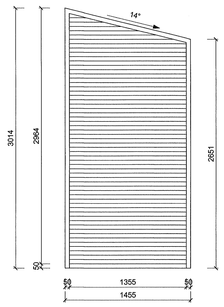

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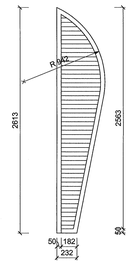

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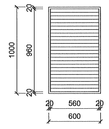
SC-0029 | SCALE 1 : 25



5 | LV05
SC-0029 | SCALE 1 : 25

Assembly Schedule LV

Type	Count	Panel Material	Frame Material
LV01	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV02	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV03	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV04	1	Metal - Aluminum Louvre	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV05	2	Metal - Aluminum Louvre	'TROX' ARK 2 Pressure Relief Damper Louvre with 50mm Flange (Colour TBC)

1. SHOP DRAWING & SAMPLE REQUIRED

RECEIVED
13 JUN 2016
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0039-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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.

AECOM
CAPE TOWN OFFICE
WATERSIDE PLACE, SOUTH GATE
TYGER WATERFRONT
CARL CRONJE DRIVE

TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
OD	SPECIFICATIONS UPDATED - ISSUE FOR TENDER	K.K	R.S	D.T	13/06/2016
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	19/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		13 06 16
REG. NUMBER	7343	
SCALE:	1:25	A0

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK		13 06 16
CHECKED	RS		13 06 16
DESIGNED	BE		20 05 16
CHECKED	DT		13 06 16

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000609/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
LOUVRE SCHEDULE

PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.				SHEET		REV	ID
1	9	2	4	7	0	1	2	5	1	0	A	SC	0	0	2	9	0	1	OD	AE

ROOM SCHEDULE

Level	Room Name	Area	Floor Finish & Skirting	Wall Finish	Waterproofing to Walls	Ceiling Finish
00 LEVEL	BL. DUCT 1	5.41 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL. DUCT 2	5.41 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	FIRE STAIR 1	70.49 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Roof details WAITING ON MANUFACTURER TO DRAW THEM	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primar (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	FIRE STAIR 2	28.17 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primar (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	SERVICE LVL 1	364.06 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primar (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	SERVICE LVL 2	359.16 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primar (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	STORE ROOM 1	22.79 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primar (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL: 7		855.50 m²				
01 LEVEL	ACCESS HALL	154.52 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	BL. DUCT 3	10.42 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 4	7.75 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement plaster surface. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	FIRE STAIR 3	78.40 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	FIRE STAIR 4	32.08 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	HVAC ROOM	77.89 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	LOADING DECK	19.42 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	LV ROOM	38.51 m²	PENTAFLOOR - HPL 600 X 600mm (Solid tile code: H-2201) High Pressure Laminate of Thickness 1.5mm Smart Edge	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	METERING ROOM	37.85 m²	PENTAFLOOR - HPL 600 X 600mm (Solid tile code: H-2201) High Pressure Laminate of Thickness 1.5mm Smart Edge	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	MV SWITCHGEAR ROOM	314.92 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	RELAY ROOM	37.67 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600x600x35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's guidelines.	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	SCADA ROOM	38.51 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600x600x35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's guidel	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	STORE ROOM 2	26.89 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL: 13		874.82 m²				
02 LEVEL	CHILLER PLANT ACCESS LEVEL	40.10 m²	Sikalastic 841-ST - Spray applied pure polyurea waterproof membrane. Colour : Grey (RAL 7005). Installed as per manufacturer's guidelines.	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
02 LEVEL	CHILLER PLANT ROOM	29.30 m²	Sikalastic 841-ST - Spray applied pure polyurea waterproof membrane. Colour : Grey (RAL 7005). Installed as per manufacturer's guidelines.	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	1.6mm x 25mm x 25mm powder coated 316L stainless steel woven mesh fixed to steel purlin using 2.0mm x 70mm (w) galvanised steel plate & bolts fixed along the length of the purlin using @ 500mm centres.
02 LEVEL	FIRE STAIR 5	9.12 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brikseal' waterproofing or similar approved to cement plaster surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
02 LEVEL: 3		78.52 m²				
Grand total: 23		1808.84 m²				

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0039-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. WHERE COLUMNS AND BEAMS ARE VISIBLE: SURFACES TO BE OFF SHUTTER FOR BAGWASH AND PAINT

RECEIVED
25-May-16
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WATERSIDE PLACE, SOUTH GATE
TYGER WATERFRONT
CARL CRONJE DRIVE

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FAX: +27 (0)21 950 7502
REG. No. 1968/009628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
OC	ISSUE FOR TENDER	K.K	R.S	D.T	20/05/2016
OB	CLIENT REVIEW	K.K	R.S	D.T	18/05/2016
OA	INTERNAL REVIEW	K.K	B.E	D.T	17/05/2016

REVISIONS

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	K.K.	20 05 16
CHECKED	RS	RS	20 05 16
DESIGNED	BE	BE	20 05 16
CHECKED	DT	DT	20 05 16

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS
SIGNATURE	
DATE	20 05 16
REG. NUMBER	7343
SCALE:	N/A

Transcribe Capital Projects
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8001
TEL: 021 940 1099
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
ROOM FINISH SCHEDULE

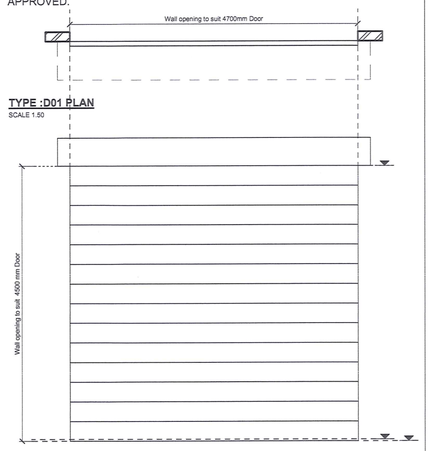
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	5100	A	SC	0030	01	C	AE

A0

01

DOOR TYPE: D01
VSD AND TRANSFORMER ROOM

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED.



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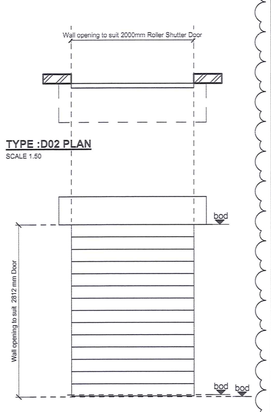
SCALE 1:50

TYPE :D01 ELEVATION
SCALE 1:50

DOOR TYPE: D02
HVAC / MV SWITCHGEAR ROOM

ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED



TYPE :D02 PLAN
SCALE 1:50

TYPE :D02 ELEVATION
SCALE 1:50

DOOR TYPE: D03
STD EXTERIOR

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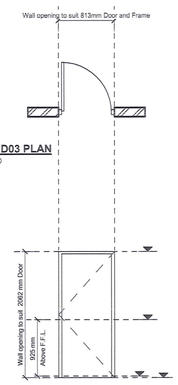

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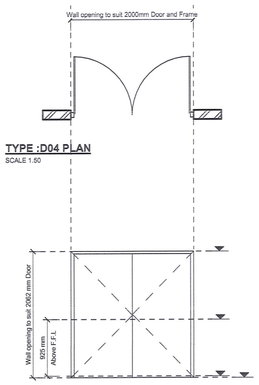
SCALE 1:50

TYPE :D03 ELEVATION
SCALE 1:50

DOOR TYPE: D04
LV AND ELECTRONICS ROOM

'BITCON INDUSTRIES' SABS APPROVED DOOR OR EQUALLY APPROVED. ACCESS CONTROLED

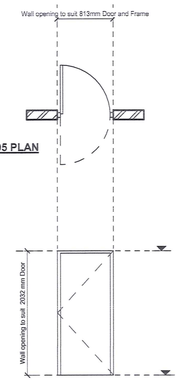


TYPE :D04 PLAN
SCALE 1:50

TYPE :D04 ELEVATION
SCALE 1:50

DOOR TYPE: D05
STD INTERIOR

'BITCON INDUSTRIES' SABS APPROVED DOOR OR EQUALLY APPROVED.



TYPE :D05 PLAN
SCALE 1:50

TYPE :D05 ELEVATION
SCALE 1:50

DOOR LEGEND
SCALE 1 : 50

MASTER
22 JUN 2018
AECOM
TRANSNET

NOTE:
ALL DOORS TO HAVE DOOR CLOSERS

DOOR SCHEDULE INDEX

LEVEL	TYPE MARK	ROOM NAME	DOOR NO	DOOR CONSTRUCTION WIDTH	DOOR CONSTRUCTION HEIGHT	FIRE RATING	MAG LOCK	ACCESS DEVICE	FRAME MATERIAL	PANEL MATERIAL	FRAME AND PANEL FINISH
LEVEL 00	D01	VSD AND TRANSFORMER ROOM	01	4700	4500	1 Hour	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4.5mm THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTOL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
1											
LEVEL 00	D02	HVAC ROOM	09	2000	2800	1 Hour	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4.5mm THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTOL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
LEVEL 00	D02	MV SWITCHGEAR ROOM	03	2000	2800	1 Hour	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4.5mm THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTOL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
2											
LEVEL 00	D03	MV SWITCHGEAR ROOM	04	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	VSD AND TRANSFORMER ROOM	11	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	VSD AND TRANSFORMER ROOM	02	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	MV SWITCHGEAR ROOM	10	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	HVAC ROOM	06	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	HVAC ROOM	08	813	2062	N/A	YES	BUTTON	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	HVAC ROOM	14	813	2062	1 Hour	YES	STANDARD	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	
7											
LEVEL 00	D04	LV AND ELECTRONICS ROOM	05	2000	2062		YES	BUTTON	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D04	CHILLER PLANT YARD	07	2000	2062		STANDARD LOCK	STANDARD	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
2											
LEVEL 00	D05	MV SWITCHGEAR ROOM	12	813	2032	1 Hour	NO	NONE	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D05	MV SWITCHGEAR ROOM	13	813	2032	1 Hour	NO	NONE	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
2											
Grand total: 14											

01

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0066-02	GENERAL DETAILS
1924701-2-510-A-DE-0065-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0064-01	PLAN DETAILS
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

NOTES

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FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION :	RU	DT	DT	2018/06/22
	DOOR LEAF SIZES AMENDED TO 2062mm HEIGHT				2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
00	ISSUED FOR CONSTRUCTION	RU	DT	DT	2018/04/20

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	RU		22 06 18
CHECKED	KK		22 06 18
DESIGNED	DT		22 06 18
CHECKED	DT		22 06 18

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		22 06 18
REG. NUMBER	7343	
SCALE:	1:50	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M DOOR SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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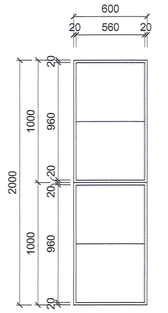
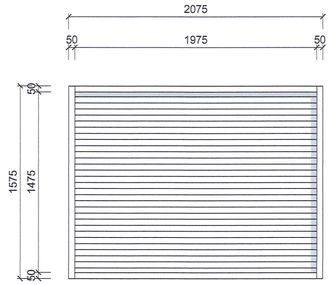


1 | LV 1
SC-0035-01 | SCALE 1 : 25



2 | LV 2
SC-0035-01 | SCALE 1 : 25

LOUVRE SCHEDULE INDEX				
Type	Count	Family	Panel Material	Frame Material
LV 1	4	Generic Models Assembly	Metal - 316L Stainless Steel Louvre	'TROX' ARK2 Pressure Relieve Damper, Powder Coated 316L Stainless Steel Casing (Colour TBC)
LV 1: 4				
LV 2	4	Curtain Panels Assembly	Metal - 316L Stainless Steel Louvre	'TROX' AWR External Weather Louvre with 50mm 316L Stainless Steel Louvre Flange & Powder Coated Finish (Colour TBC)
LV 2: 4				
Grand total: 8				

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20 APR 2018
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TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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CARL CRONJE DRIVE

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FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUED FOR CONSTRUCTION	RU	DT	DT	2018/04/20

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	RU		20 04 18
CHECKED	KK		20 04 18
DESIGNED	DT		20 04 18
CHECKED	DT		20 04 18

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		20 04 18
REG. NUMBER	7343	
SCALE:	1:20	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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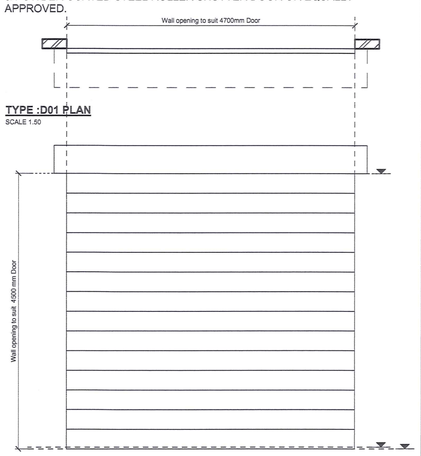
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
LOUVRE SCHEDULE

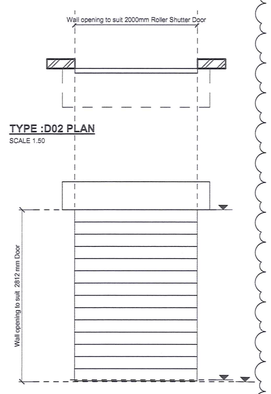
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0035	01	00	AE

DOOR TYPE: D01 VSD AND TRANSFORMER ROOM	DOOR TYPE: D02 HVAC / MV SWITCHGEAR ROOM	DOOR TYPE: D03 STD EXTERIOR	DOOR TYPE: D04 LV AND ELECTRONICS ROOM	DOOR TYPE: D05 STD INTERIOR
ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED.	ROLL-UP SERRANDA: SOLID SLATTED CHAIN OPERATED GALVANISED & POWDER COATED STEEL ROLLER SHUTTER DOOR OR EQUALLY APPROVED.	'BITCON INDUSTRIES' SABS OR EQUALLY APPROVED DOOR. ACCESS CONTROLED	'BITCON INDUSTRIES' SABS OR EQUALLY APPROVED DOOR. ACCESS CONTROLED	'BITCON INDUSTRIES' SABS OR EQUALLY APPROVED DOOR.



TYPE :D01 PLAN
SCALE 1:50

TYPE :D01 ELEVATION
SCALE 1:50



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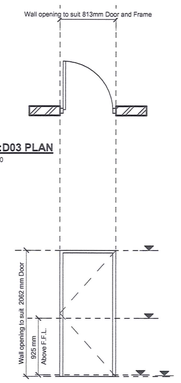
SCALE 1:50

TYPE :D02 ELEVATION
SCALE 1:50



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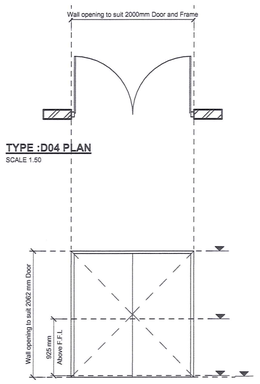
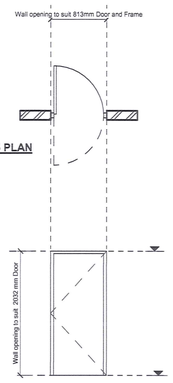
SCALE 1:50

TYPE :D03 ELEVATION
SCALE 1:50



TYPE :D04 PLAN
SCALE 1:50

TYPE :D04 ELEVATION
SCALE 1:50



TYPE :D05 PLAN
SCALE 1:50

TYPE :D05 ELEVATION
SCALE 1:50

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22 JUN 2018
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NOTE:
ALL DOORS TO HAVE DOOR CLOSERS

DOOR LEGEND
SCALE 1 : 50

DOOR SCHEDULE INDEX

Level	TYPE MARK	Room Name	DOOR NO	DOOR CONSTRUCTION WIDTH	DOOR CONSTRUCTION HEIGHT	FIRE RATING	MAG LOCK	ACCESS DEVICE	FRAME MATERIAL	PANEL MATERIAL	FRAME AND PANEL FINISH
LEVEL 00	D01	VSD AND TRANSFORMER ROOM	01	4700	4500	N/A	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4.5mm THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTOL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
1											
LEVEL 00	D02	MV SWITCHGEAR ROOM	03	2000	2800	N/A	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4.5mm THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTOL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
LEVEL 00	D02	HVAC ROOM	06	2000	2800	N/A	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL ANCILLARY COMPONENTS INCLUDING 4.5mm THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTOL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
2											
LEVEL 00	D03	MV SWITCHGEAR ROOM	04	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVE DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	VSD AND TRANSFORMER ROOM	11	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVE DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	VSD AND TRANSFORMER ROOM	02	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVE DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	MV SWITCHGEAR ROOM	10	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVE DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	HVAC ROOM	07	813	2062	N/A	YES	BUTTON	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVE DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	HVAC ROOM	09	813	2062	N/A	NO	PUSH BAR	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVE DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D03	HVAC ROOM	14	813	2062	1 Hour	YES	STANDARD	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVE DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	
7											
LEVEL 00	D04	LV AND ELECTRONICS ROOM	05	2000	2062	N/A	YES	BUTTON	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D04	CHILLER PLANT YARD	08	2000	2062	N/A	STANDARD LOCK	STANDARD	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
2											
LEVEL 00	D05	MV SWITCHGEAR ROOM	12	813	2032	1 Hour	NO	NONE	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
LEVEL 00	D05	MV SWITCHGEAR ROOM	13	813	2032	1 Hour	NO	NONE	1.6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
2											
Grand total: 14											

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0069-02	GENERAL DETAILS
1924701-2-510-A-DE-0068-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0067-01	PLAN DETAILS
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-DE-0062-01	ELEVATIONS
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

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.

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REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHK	APP'D	DATE
01	ISSUE FOR CONSTRUCTION :	RU			2018/06/22
	DOOR LEAF SIZES AMENDED TO 2062mm HEIGHT				2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
00	ISSUE FOR CONSTRUCTION	RU	DT	DT	2018/04/20

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	RU		22 06 18
CHECKED	KK		22 06 18
DESIGNED	DT		22 06 18
CHECKED	DT		22 06 18

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		22 06 18
REG. NUMBER	7343	
SCALE:	1:50	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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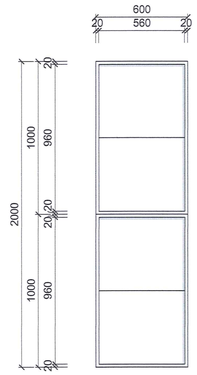
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

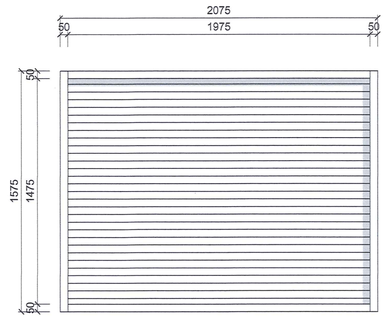
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
DOOR SCHEDULES

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0036	01	01	AE



1 | LV 1
SC-0037-01 | SCALE 1 : 20



2 | LV 2
SC-0037-01 | SCALE 1 : 20

LOUVRE SCHEDULE INDEX

Type	Family	Count	Frame Material	Panel Material
LV 1	Generic Models Assembly	4	Metal - 316L Stainless Steel Louvre	'TROX' ARK2 Pressure Relieve Damper, Powder Coated 316L Stainless Steel Casing (Colour TBC)
LV 2	Curtain Panels Assembly	4	Metal - 316L Stainless Steel Louvre	'TROX' AWR External Weather Louvre with 50mm 316L Stainless Steel Flange & Powder Coated Finish (Colour TBC)

Grand total: 8

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20 APR 2018
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DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-DE-0062-01	ELEVATIONS
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUE FOR CONSTRUCTION	RU	DT	DT	2018/04/20

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	RU		20 04 18
CHECKED	KK		20 04 18
DESIGNED	DT		20 04 18
CHECKED	DT		20 04 18

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		20 04 18
REG. NUMBER	7343	
SCALE:	1:20	A1

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8001
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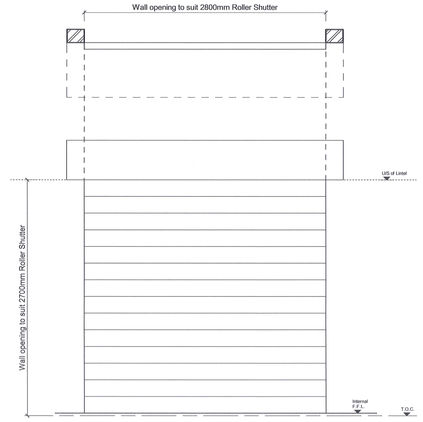
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
LOUVRE FINISH SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0037	01	00	AE

DOOR TYPE: D01
STD ROLLER SHUTTER

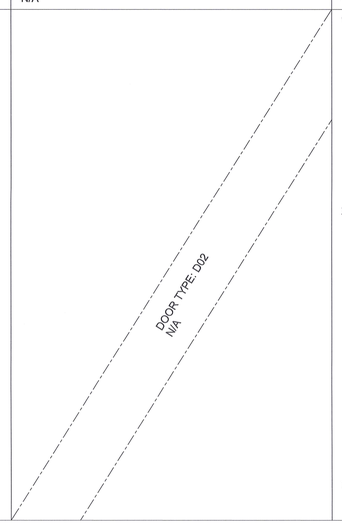
SERRANDA GALVANISED STEEL ROLLER SHUTTER DOOR OR
EQUALLY APPROVED



TYPE D01 PLAN

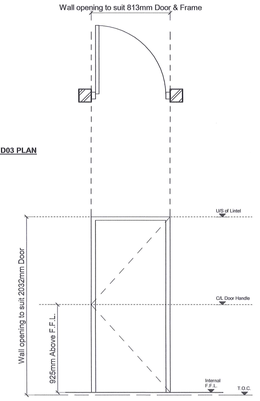
TYPE D01 ELEVATION

DOOR TYPE: D02
N/A



DOOR TYPE: D03
STD SINGLE DOOR

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR

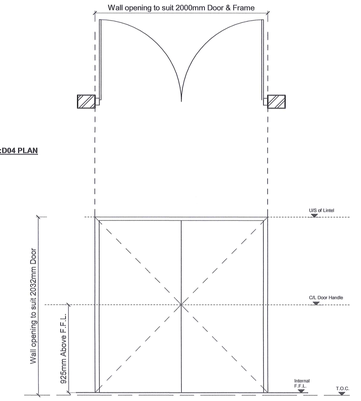


TYPE D03 PLAN

TYPE D03 ELEVATION

DOOR TYPE: D04
STD DOUBLE DOOR

'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR



TYPE :D04 PLAN

TYPE :D04 ELEVATION

DOOR LEGEND
SCALE 1 : 25

01

DOOR SCHEDULE INDEX

LEVEL	TYPE MARK	ROOM NAME	DOOR NO	DOOR CONSTRUCTION WIDTH	DOOR CONSTRUCTION HEIGHT	FIRE RATING	MAG LOCK	ACCESS DEVICE	FRAME MATERIAL	PANEL MATERIAL	FRAME AND PANEL FINISH
00 LEVEL	D01	SERVICE LVL 2	3	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	ACCESS HALL	11	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	ACCESS HALL	14	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	ACCESS HALL	15	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	ACCESS HALL	24	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	HVAC ROOM	23	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	LV ROOM	12	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	METERING ROOM	18	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
01 LEVEL	D01	RELAY ROOM	21	2800	2700	1.5 HOUR	N/A	STANDARD	STANDARD BOTTOM RAIL, WINDLOCK GUIDES, GALVANISED STEEL, ANCILLARY COMPONENTS INCLUDING 4,5MM THICK END PLATES, GUIDE RAILS, FUSIBLE LINK AND RELEASE MECHANISM AND CANOPY COVER, FIXED TO STRUCTURAL STEEL JAMBS AND CONCRETE LINTEL	DOORS TO INCLUDE STD GALVANISED COVER BOX, ENDLOCKS, SLIDE BOLTS, CURTAIN ALUMINIUM SLATS, ALUMINIUM T-BAR WITH A RUBBER WEATHER SEAL, ALL FIXING BOLTS TO BE STAINLESS STEEL. THE SHAFT IS TO BE PROTECTED WITH A RUST RESISTANT COAT, ALL THE STEEL GUIDES AND END PLATE TO BE GALVANISED AND THEN POWDER COATED	POWDER COATED (COLOUR TBC)
9											
00 LEVEL	D03	FIRE STAIR 2	2	813	2032	2 HOUR	YES	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	SERVICE LVL 2	1	813	2032	2 HOUR	NO	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D03	STORE ROOM 1	4	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	FIRE STAIR 3	28	813	2032	2 HOUR	NO	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	LOADING DECK	8	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	LV ROOM	13	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	METERING ROOM	19	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	MV SWITCHGEAR ROOM	10	813	2032	2 HOUR	NO	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	MV SWITCHGEAR ROOM	17	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	MV SWITCHGEAR ROOM	25	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	MV SWITCHGEAR ROOM	30	813	2032	2 HOUR	NO	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	MV SWITCHGEAR ROOM	31	813	2032	2 HOUR	NO	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	RELAY ROOM	22	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	SCADA ROOM	16	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	STORE ROOM 2	9	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D03	STORE ROOM 2	32	813	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
16											
00 LEVEL	D04	FIRE STAIR 1	6	2000	2032	2 HOUR	NO	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D04	FIRE STAIR 1	7	2000	2032	2 HOUR	YES	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
00 LEVEL	D04	SERVICE LVL 1	5	2000	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	FIRE STAIR 3	27	2000	2032	2 HOUR	NO	PUSH BAR	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	HVAC ROOM	26	2000	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
01 LEVEL	D04	MV SWITCHGEAR ROOM	20	2000	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
02 LEVEL	D04	CHILLER PLANT ROOM	29	2000	2032	2 HOUR	NO	STANDARD	1,6mm 4-SIDED, DOUBLE REBATED, 316L STAINLESS STEEL FRAME (TO SUIT WALL THICKNESS)	'BITCON INDUSTRIES' SABS APPROVED 2 HOUR FIRE RATED DOOR WITH 1,2mm 316L STAINLESS STEEL CLADDING BOTH SIDES.	POWDER COATED (COLOUR TBC)
7											
Grand total: 32											

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2 8 JUN 2018
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DRAWING NO.	REFERENCE
1924701-2-510-A-SC-0033-01	IRONMONGERY SCHEDULE
1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0012-02	SECTIONS
1924701-2-510-A-SE-0012-01	SECTIONS
1924701-2-510-A-GA-0018-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0018-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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. REFER TO IRONMONGERY SCHEDULE
4. ALL DOOR FINISHES EQUAL AND APPROVED

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NO	DESCRIPTION	BY	CHK'D	APP'D	DATE
	DOOR TYPES AND SCHEDULE REVISED				20180628
01	ISSUE FOR CONSTRUCTION	RU	DT	DT	20180628
00	ISSUE FOR CONSTRUCTION	RU	DT	DT	20180420

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OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	K.K	28 06 18
CHECKED	RU		28 06 18
DESIGNED	DT		28 06 18
CHECKED	DT		28 06 18

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		28 06 18
REG. NUMBER	7343	
SCALE:	1:25	A0

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000906/06
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
DOOR SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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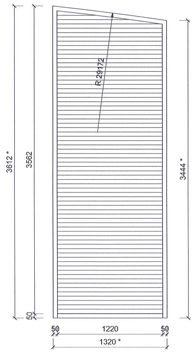
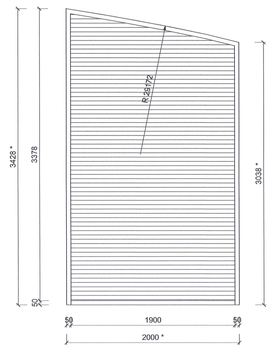


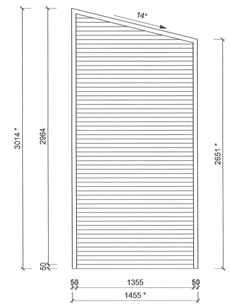
1 | LV01
SC-0039 | SCALE 1 : 25

*All Dimensions to be Checked on Site Prior to Installation



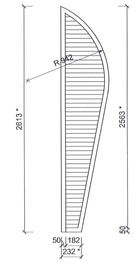
2 | LV02
SC-0039 | SCALE 1 : 25

*All Dimensions to be Checked on Site Prior to Installation



3 | LV03
SC-0039 | SCALE 1 : 25

*All Dimensions to be Checked on Site Prior to Installation



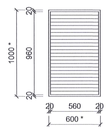
4 | LV04
SC-0039 | SCALE 1 : 25

*All Dimensions to be Checked on Site Prior to Installation

Assembly Schedule LV			
Type	Louvre Number	Panel Material	Frame Material
LV01	1.01	Metal - 316L Stainless Steel	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV02	1.02	Metal - 316L Stainless Steel	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV03	1.03	Metal - 316L Stainless Steel	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV04	1.04	Metal - 316L Stainless Steel	'TROX' AWR External Weather Louvre with 50mm Flange & Powder Coated 316L Stainless Steel Mesh (Colour TBC)
LV05	1.05	Metal - 316L Stainless Steel	'TROX' ARK 2 Pressure Relief Damper Louvre with 50mm Flange (Colour TBC)
LV05	1.06	Metal - 316L Stainless Steel	'TROX' ARK 2 Pressure Relief Damper Louvre with 50mm Flange (Colour TBC)

1. SHOP DRAWING & SAMPLE REQUIRED

01



5 | LV05
SC-0039 | SCALE 1 : 25

*All Dimensions to be Checked on Site Prior to Installation

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28 JUN 2018
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REFERENCE DRAWINGS	
DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0012-02	SECTIONS
1924701-2-510-A-SE-0012-01	SECTIONS
1924701-2-510-A-GA-0018-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0018-01	GENERAL ARRANGEMENT

NOTES

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
	LOUVRE NUMBERS ADDED				20180628
01	ISSUE FOR CONSTRUCTION	RU	DT	DT	20180628
00	ISSUE FOR CONSTRUCTION	RU	DT	DT	20180420

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK	KK	28 06 18
CHECKED	RU	RU	28 06 18
DESIGNED	DT	DT	28 06 18
CHECKED	DT	DT	28 06 18

PR.ENG./PR.TECH./PR.ARCH	
NAME	DEREK THOMAS DATE
SIGNATURE	28 06 18
REG. NUMBER	7343
SCALE:	1:25 A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000906/06
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TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
LOUVRE SCHEDULE

PROJECT NUMBER							OD	FBS			DIS	TYPE	DRAWING NO.			SHEET		REV	ID
1	9	2	4	7	0	1	2	5	1	0	A	SC	0	0	3	9	0	1	01	AE

ROOM FINISH SCHEDULE

LEVEL	ROOM NAME	AREA	FLOOR FINISH	WALL FINISH	WATERPROOFING TO WALLS	CEILING FINISH
LEVEL 00	VSD AND TRANSFORMER ROOM	183.15 m²	Epoxy Floor Finish - One Coat Mastertop Primer 1200 Plus resin with Solvent No2 with Mastertop 1210 Plus Aggregate and Apply Light Grey Mastertop 1210 Plus top coat & - 75 x 6mm (thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00	MV SWITCHGEAR ROOM	103.20 m²	Epoxy Floor Finish - One Coat Mastertop Primer 1200 Plus resin with Solvent No2 with Mastertop 1210 Plus Aggregate and Apply Light Grey Mastertop 1210 Plus top coat & - 75 x 6mm (thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00	HVAC ROOM	80.95 m²	Epoxy Floor Finish - One Coat Mastertop Primer 1200 Plus resin with Solvent No2 with Mastertop 1210 Plus Aggregate and Apply Light Grey Mastertop 1210 Plus top coat & - 75 x 6mm (thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00	CHILLER PLANT YARD	60.10 m²	Grano Screed to fall, finished with Sikalistic 841-ST - SPRAY applied pure polyurea waterproof membrane. Colour : Light Grey (RAL 7005) Installed as per manufacturer's specifications	Facebrick - De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	N/A	N/A
LEVEL 00	LV AND ELECTRONICS ROOM	55.47 m²	Epoxy Floor Finish - One Coat Mastertop Primer 1200 Plus resin with Solvent No2 with Mastertop 1210 Plus Aggregate and Apply Light Grey Mastertop 1210 Plus top coat & - 75 x 6mm (thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00: 5		482.86 m²				
Grand total: 5		482.86 m²				

02

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0069-03	GENERAL DETAILS
1924701-2-510-A-DE-0069-02	GENERAL DETAILS
1924701-2-510-A-DE-0069-01	GENERAL DETAILS
1924701-2-510-A-DE-0068-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0068-01	ROOF DETAILS
1924701-2-510-A-DE-0067-01	PLAN DETAILS
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-DE-0062-01	ELEVATIONS
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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AECOM

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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUE FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	CHILLER PLANT YARD FLOOR FINISH AMENDED				2018/06/22
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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CHECKED	KK		06	05	19
DESIGNED	JPK		06	05	19
CHECKED	JPK		06	05	19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH			
NAME	PP KOK		DATE
SIGNATURE		06	05 19
REG. NUMBER	24743231		
SCALE:	1:20	A1	

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07 MAY 2019
AECOM TRANSNET

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000906/06
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N ROOM FINISHES SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0040	01	02	AE

ROOM FINISH SCHEDULE

LEVEL	ROOM NAME	AREA	FLOOR FINISH	WALL FINISH	WATERPROOFING TO WALLS	CEILING FINISH
LEVEL 00	VSD AND TRANSFORMER ROOM	126.80 m²	Epoxy Floor Finish - One coat Mastertop Primer 1200 Plus resin with Solvent No 2 with Mastertop 1210 Plus Aggregate and apply Light Grey Mastertop 1210 Plus topcoat & -75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00	MV SWITCHGEAR ROOM	103.20 m²	Epoxy Floor Finish - One coat Mastertop Primer 1200 Plus resin with Solvent No 2 with Mastertop 1210 Plus Aggregate and apply Light Grey Mastertop 1210 Plus topcoat & -75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00	HVAC ROOM	80.90 m²	Epoxy Floor Finish - One coat Mastertop Primer 1200 Plus resin with Solvent No 2 with Mastertop 1210 Plus Aggregate and apply Light Grey Mastertop 1210 Plus topcoat & -75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00	CHILLER PLANT YARD	60.10 m²	Grano Screed to fall, finished with Sikalastic 841-ST - Spray applied pure polyurea waterproof membrane. Colour : Light Grey (RAL 7005). Installed as per manufacturers specifications.	Facebrick - De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	N/A	N/A
LEVEL 00	LV AND ELECTRONICS ROOM	54.73 m²	Epoxy Floor Finish - One coat Mastertop Primer 1200 Plus resin with Solvent No 2 with Mastertop 1210 Plus Aggregate and apply Light Grey Mastertop 1210 Plus topcoat & -75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines. Equal and approved. External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200mm x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195mm x 595mm ceiling tiles. Installed as per manufacturer's guidelines.
LEVEL 00: 5		425.73 m²				
Grand total: 5		425.73 m²				

02

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0066-03	GENERAL DETAILS
1924701-2-510-A-DE-0066-02	GENERAL DETAILS
1924701-2-510-A-DE-0066-01	GENERAL DETAILS
1924701-2-510-A-DE-0065-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0065-01	ROOF DETAILS
1924701-2-510-A-DE-0064-01	PLAN DETAILS
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

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.

AECOM

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REG. No. 1968/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUED FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	CHILLER PLANT YARD FLOOR FINNISH AMENDED				2018/06/22
00	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

REVISIONS

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	2743231	
SCALE:	1:100	A1

MASTER
07 MAY 2019
AECOM TRANSNET

Transnet Capital Projects
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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
ROOM FINISHES SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SC	0041	01	02	AE

ROOM SCHEDULE

Level	Room Name	Area	Floor Finish & Skirting	Wall Finish	Waterproofing to Walls	Ceiling Finish
00 LEVEL	BL. DUCT 1	5.41 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement bagged surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	BL. DUCT 2	5.41 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement bagged surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
00 LEVEL	FIRE STAIR 1	70.53 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Roof details TO SPECIALIST / MANUFACTURER'S DESIGN & DETAIL	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	FIRE STAIR 2	28.36 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	SERVICE LVL 1	364.68 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	SERVICE LVL 2	359.04 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL	STORE ROOM 1	22.94 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
00 LEVEL: 7		856.39 m²				
01 LEVEL	ACCESS HALL	154.52 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	BL. DUCT 3	10.42 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement bagged surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	BL. DUCT 4	7.75 m²	N/A	Bag and one coat Acrylic PVA paint	Waterproofing to cement bagged surface. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	N/A
01 LEVEL	FIRE STAIR 3	78.40 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal and approved.	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	FIRE STAIR 4	32.69 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	HVAC ROOM	77.89 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	LOADING DECK	19.42 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
01 LEVEL	LV ROOM	38.51 m²	PENTAFLOOR - HPL 600 X 600mm (Solid tile code: H-2201) High Pressure Laminate of Thickness 1.5mm Smart Edge	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	METERING ROOM	37.85 m²	PENTAFLOOR - HPL 600 X 600mm (Solid tile code: H-2201) High Pressure Laminate of Thickness 1.5mm Smart Edge	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	MV SWITCHGEAR ROOM	315.44 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	RELAY ROOM	37.67 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600x600x35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's guidelines.	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	SCADA ROOM	38.51 m²	PENTAFLOOR Raised access floor system with 1.5mm (HPL) High Pressure Laminate (Formica : Grey Starlight) smart edge 600x600x35mm panels or similar approved. Panel and substructure system to meet minimum expected equipment load as per manufacturer's guidel	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL	STORE ROOM 2	26.89 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
01 LEVEL: 13		875.94 m²				
02 LEVEL	CHILLER PLANT ACCESS LEVEL	40.10 m²	Sikalastic 841-ST - Spray applied pure polyurea waterproof membrane. Colour : Grey (RAL 7005). Installed as per manufacturer's guidelines.	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
02 LEVEL	CHILLER PLANT ROOM	29.30 m²	Sikalastic 841-ST - Spray applied pure polyurea waterproof membrane. Colour : Grey (RAL 7005). Installed as per manufacturer's guidelines.	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	1.6mm x 25mm x 25mm powder coated 316L stainless steel woven mesh fixed to steel purlin using 2.0mm x 70mm (w) galvanised steel plate & bolts fixed along the length of the purlin using @ 500mm centres.
02 LEVEL	FIRE STAIR 5	9.12 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Gyproc Gyprex 1200 x 600mm exposed ceiling grid system. Gyprex 'Frost White' 1195 x 595mm ceiling tiles installed as per manufacturer's guidelines. Equal and approved.
02 LEVEL	LOADING DECK	19.67 m²	Epoxy Floor Finish - One coat Mastertop® Primer 1200 Plus resin with Solvent No 2 with Mastertop® 1210 Plus Aggregate and apply Light Grey Mastertop® 1210 Plus top coat & - 75 x 6mm(thick) galvanised steel plate bonded with Sikaflex 11 FC	Plastered wall. Prime with one coat Plascon Professional Plaster Primer (PP 700) with an overcoating time of 18 hours and finish with two coats Plascon Professional Superior Low Sheen (PEM 1000) apply strictly according to manufacturer's guidelines, equal	Waterproofing to inside face(cavity) of the inside brick skin. Apply 2 coats 'A.B.E Brixeal' waterproofing or similar approved to cement bagged surface. All surfaces to be clean, dry, sound and free of oils and laitance. No special primer required. Stir well before use. Apply 2 coats and allow to dry. Brushed coat on: 1st coat 2 m2/L. Average unbagged: 2nd coat 4 m2/L brickwork, all in accordance with manufacturer's recommendations.	Exposed Soffit - Bag and apply one coat Plascon Plaster Primer (UC56) and two coats Plascon Super Acrylic Polven (EPL30). Apply as per manufacturer's guidelines. Equal and approved.
02 LEVEL: 4		98.19 m²				
Grand total: 24		1830.52 m²				

EXTERNAL FACEBRICK SPECIFICATION

External : De Hoop Red - Smooth : Corobrik® (De Hoop Factory- Western Cape) 40-50MPa Smooth or similar approved Imperial FBS clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.

02

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0012-02	SECTIONS
1924701-2-510-A-SE-0012-01	SECTIONS
1924701-2-510-A-GA-0018-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0018-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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3. WHERE COLUMNS AND BEAMS ARE VISIBLE: SURFACES TO BE OFF SHUTTER FOR BAGWASH AND PAINT

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REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
	FINISHES SCHEDULE AMENDED				2018/06/28
01	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/06/28
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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CHECKED	RU		06	05 19
DESIGNED	JPK		06	05 19
CHECKED	JPK		06	05 19

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	20143231	
SCALE:	1:25	A0

MASTER
07 MAY 2019
AECOM TRANSNET

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
ROOM FINISH SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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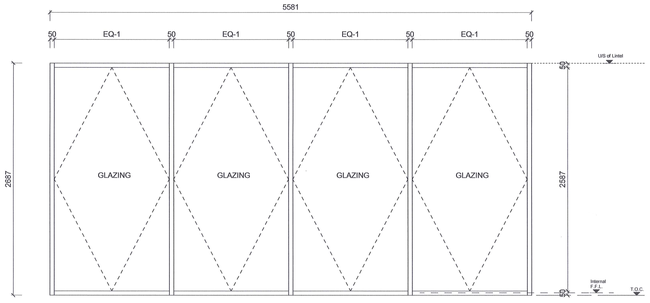

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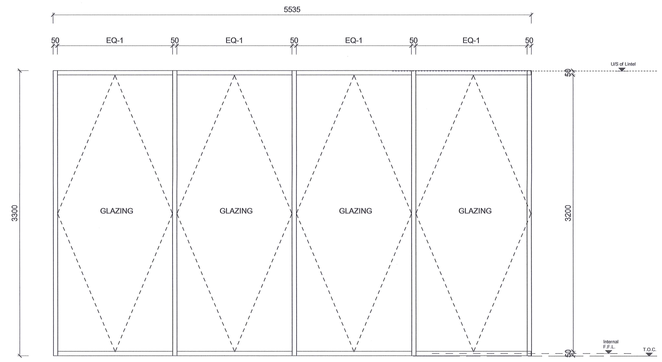

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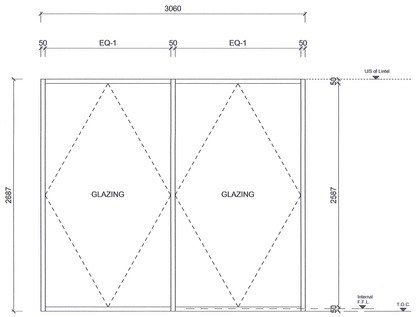

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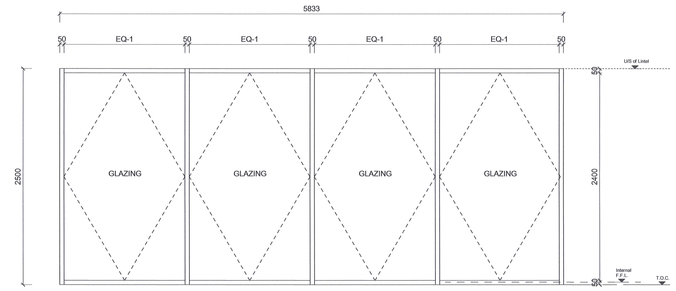

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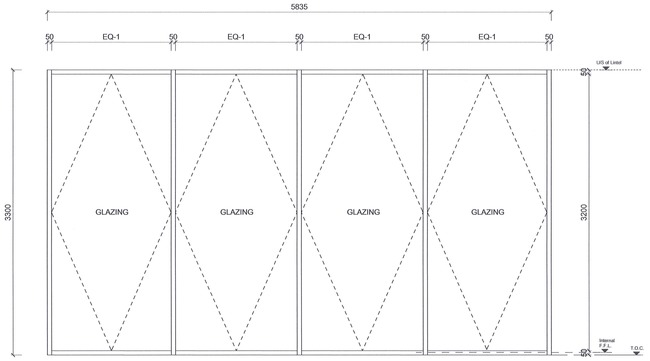

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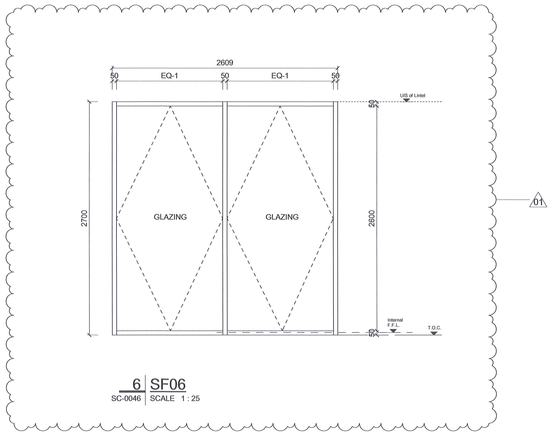

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SC-0046 | SCALE 1 : 25

01

Assembly Schedule SF

Type	SF Number	Panel Material	Frame Material
SF01	2.01	SINGLE GLAZING : Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads. Glazing Thickness To Satisfy Windloading Condition 1.	Powder Coated Aluminium (Colour TBC)
SF02	2.02	SINGLE GLAZING : Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads. Glazing Thickness To Satisfy Windloading Condition 1.	Powder Coated Aluminium (Colour TBC)
SF03	2.03	SINGLE GLAZING : Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads. Glazing Thickness To Satisfy Windloading Condition 1.	Powder Coated Aluminium (Colour TBC)
SF04	2.04	SINGLE GLAZING : Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads. Glazing Thickness To Satisfy Windloading Condition 1.	Powder Coated Aluminium (Colour TBC)
SF05	2.05	SINGLE GLAZING : Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads. Glazing Thickness To Satisfy Windloading Condition 1.	Powder Coated Aluminium (Colour TBC)
SF06	2.06	SINGLE GLAZING : Solarvue Serene Green HL Laminated Coated Safety Glass, Fixed with Neoprene Gaskets and Aluminium Clip-on Glazing Beads. Glazing Thickness To Satisfy Windloading Condition 1.	Powder Coated Aluminium (Colour TBC)

1. SHOP DRAWING TO BE SUPPLIED BY MANUFACTURER FOR ARCHITECTS APPROVAL, SAMPLE REQUIRED

MASTER
28 JUN 2018
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0012-02	SECTIONS
1924701-2-510-A-SE-0012-01	SECTIONS
1924701-2-510-A-GA-0018-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0018-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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NO	DESCRIPTION	BY	CHKD	APPD	DATE
	SHOPFRONT AMENDED				20180628
01	ISSUE FOR CONSTRUCTION	RU	DT	DT	20180629
00	ISSUE FOR CONSTRUCTION	RU	DT	DT	20180420

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TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	KK	28 06 18
CHECKED	RU		28 06 18
DESIGNED	DT		28 06 18
CHECKED	DT		28 06 18

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		28 06 18
REG. NUMBER	7343	
SCALE:	1:25	A0

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PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SHOPFRONT SCHEDULE

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
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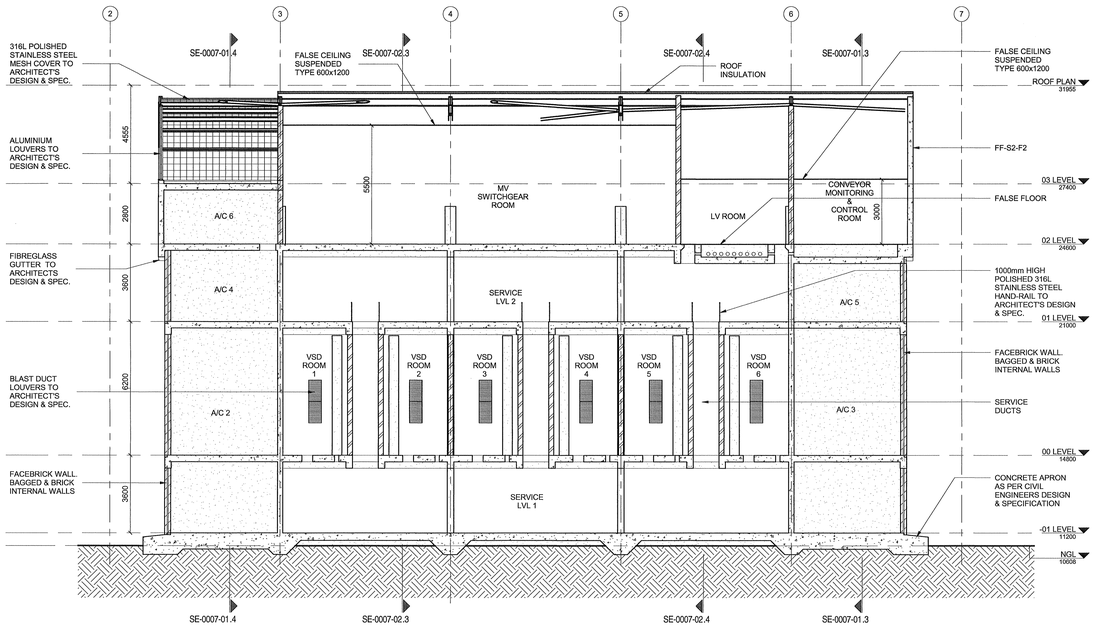

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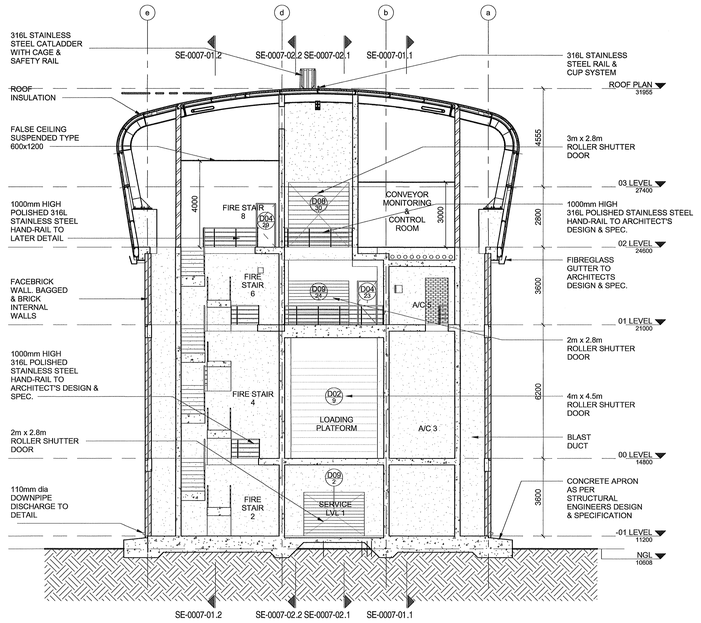

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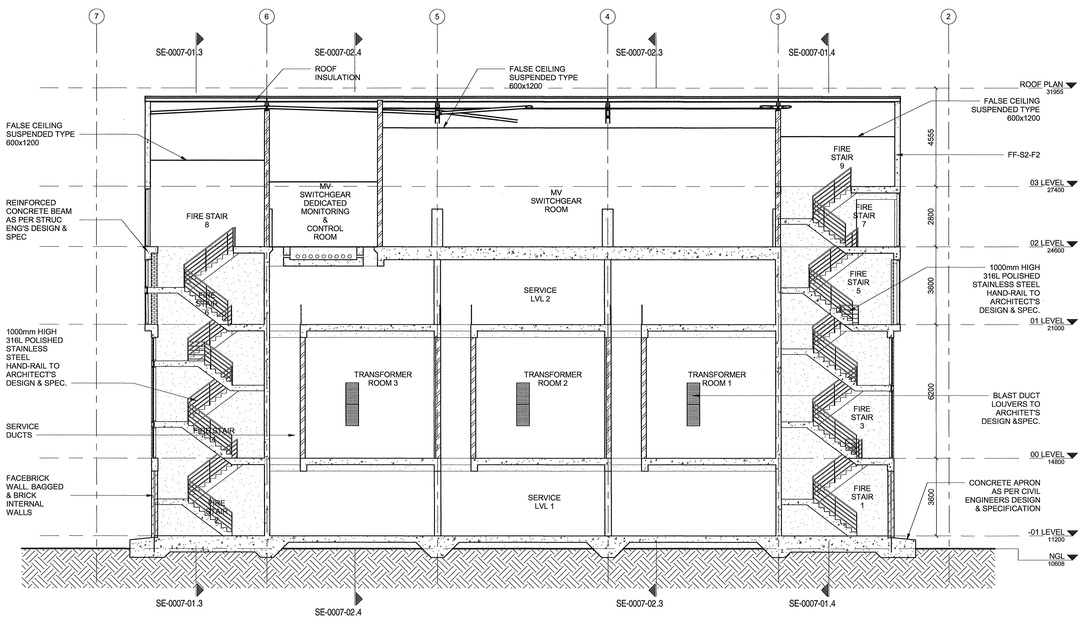

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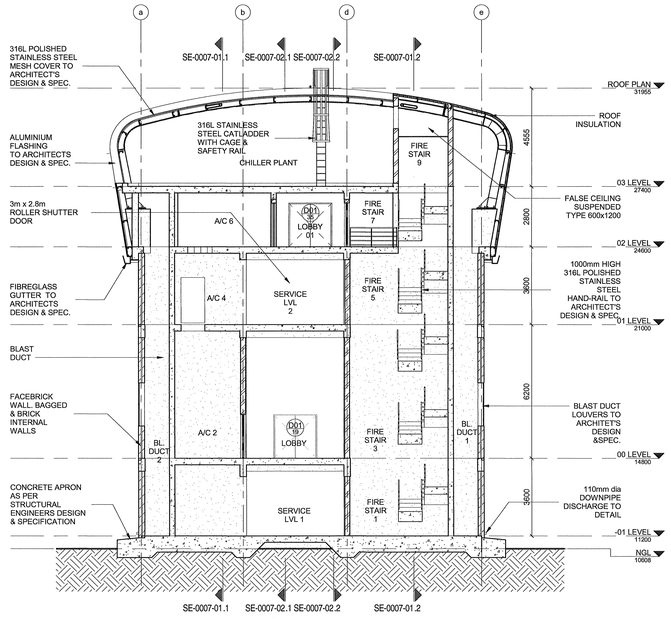

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02 FEB 2017
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1924701-2-510-A-SE-0007-02	SECTIONS
1924701-2-510-A-DE-0036-02	SECTION DETAILS
1924701-2-510-A-DE-0036-01	SECTION DETAILS
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

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NO	DESCRIPTION	BY	CHK	APPD	DATE
00	ISSUE FOR CONSTRUCTION	KK	R.S	D.T	31/01/2017

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CHECKED	DT		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH	
NAME	DEREK THOMAS
DATE	31 01 17
SIGNATURE	
REG. NUMBER	7343

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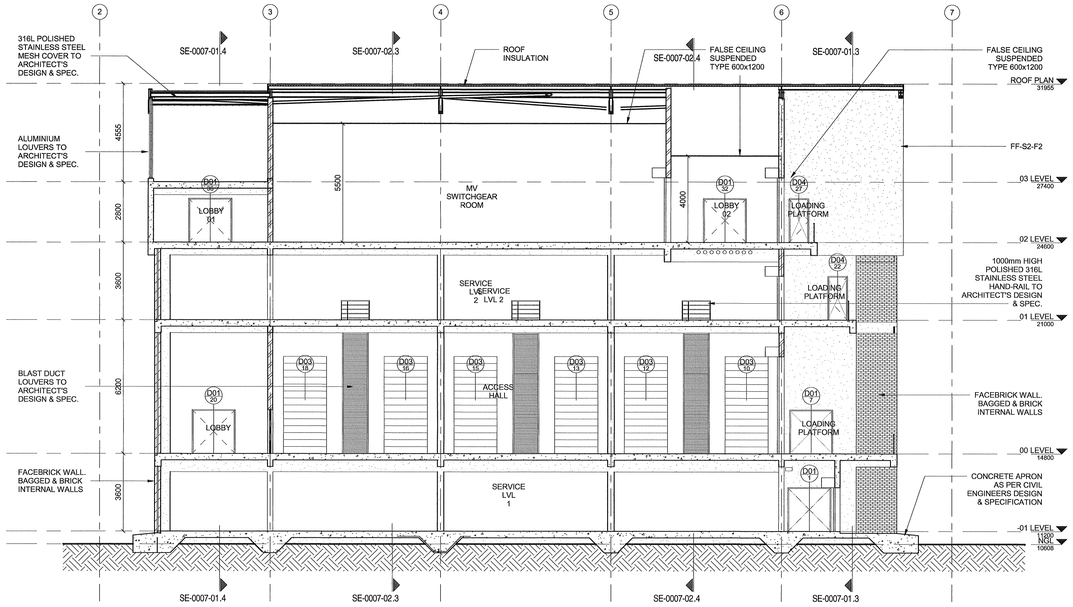
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SE	0007	01	00	AE

SCALE: 1:100 A0



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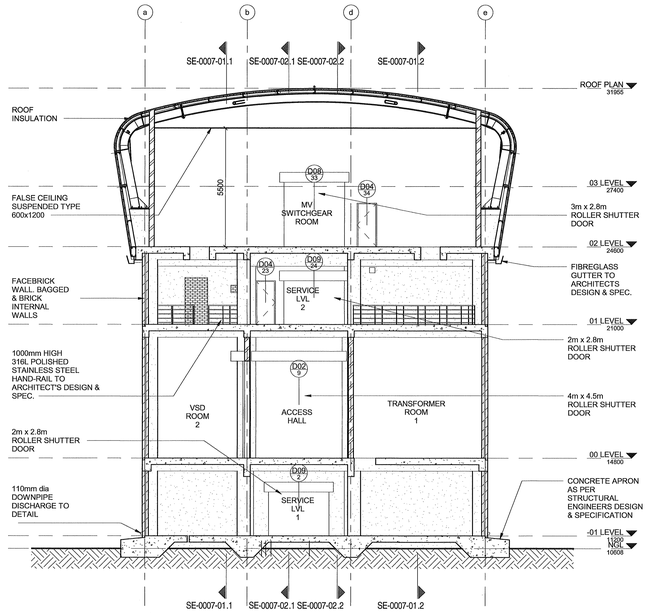

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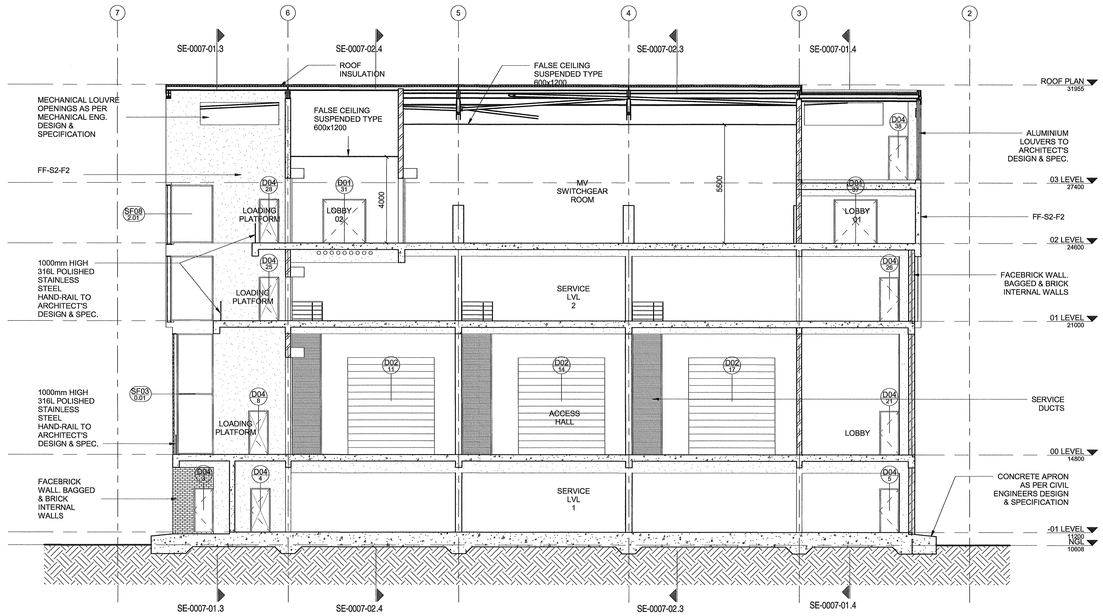

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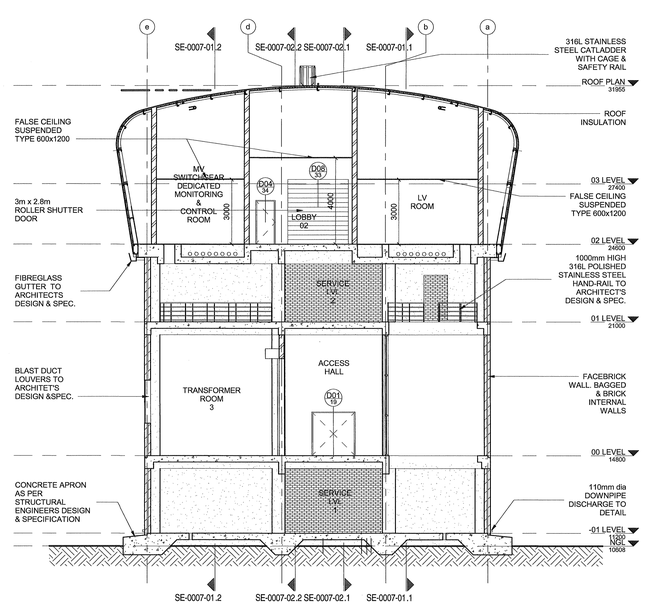

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02 FEB 2017
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DRAWING NO.	REFERENCE
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1924701-2-510-A-DE-0036-02	SECTION DETAILS
1924701-2-510-A-DE-0036-01	SECTION DETAILS
1924701-2-510-A-DE-0035-01	ELEVATIONS
1924701-2-510-A-GA-0013-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0013-01	GENERAL ARRANGEMENT

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CHECKED	DT		31 01 17
DESIGNED	BE		31 01 17
CHECKED	DT		31 01 17

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NAME	DATE
SIGNATURE	31 01 17
REG. NUMBER	7845
SCALE:	A0

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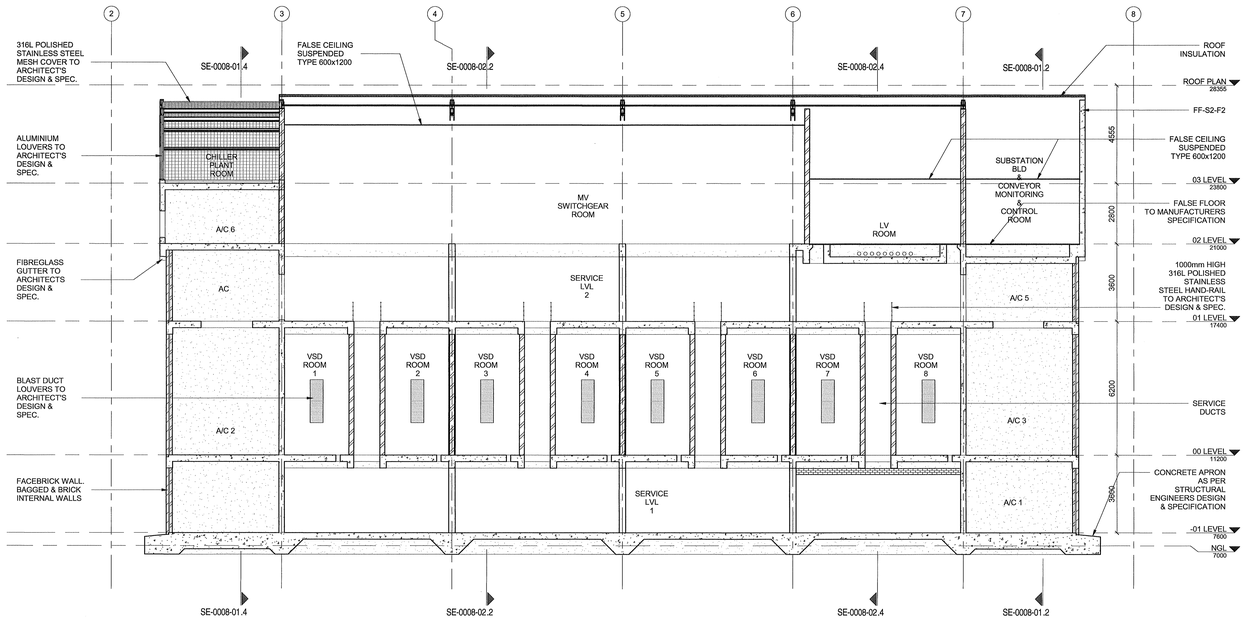
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

TRANSNET

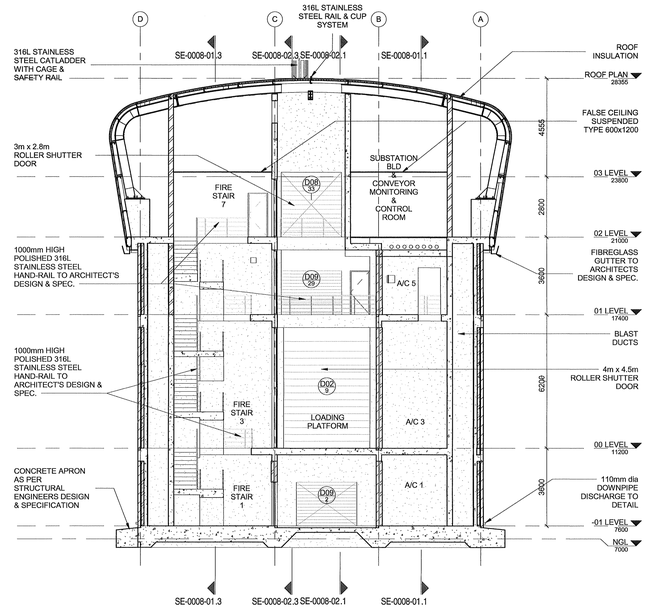
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION M
SECTIONS

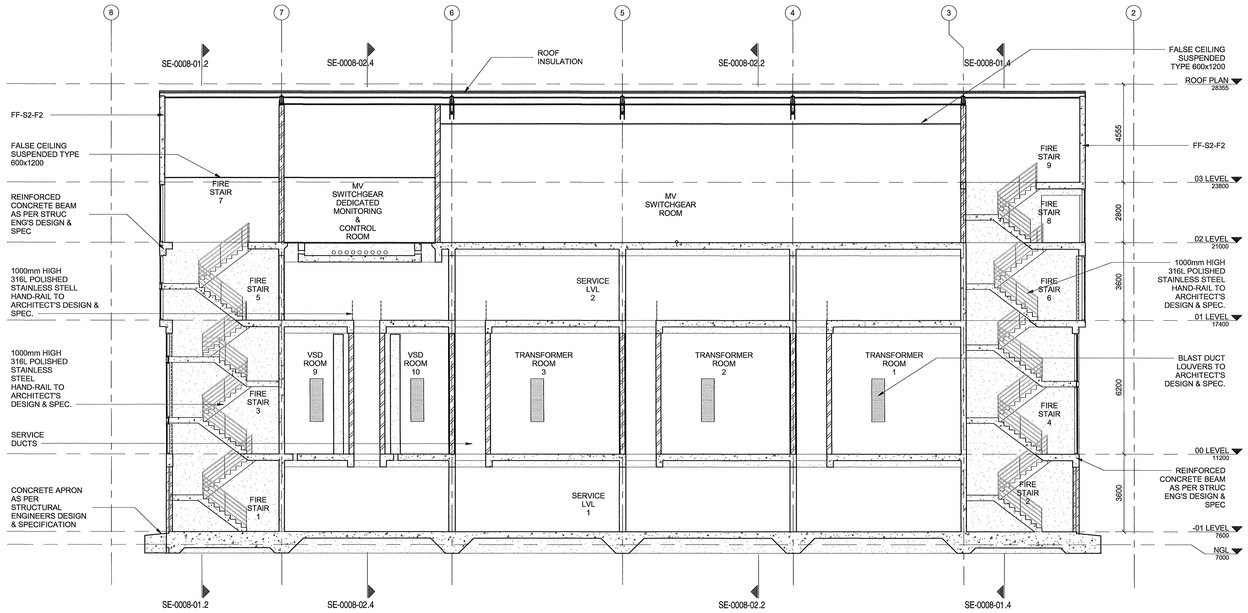
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	S E	0 0 0 7	0 2	00	AE



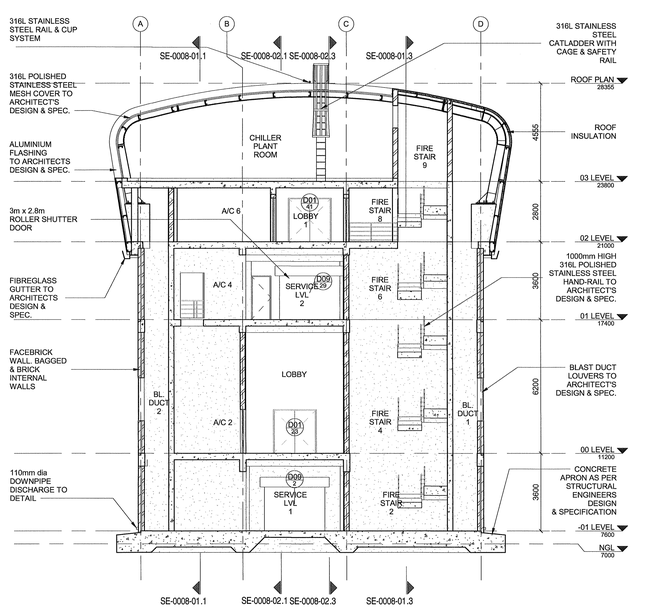
1 | SECTION A
SE-0008-01 | SCALE 1 : 100



2 | SECTION B
SE-0008-01 | SCALE 1 : 100



3 | SECTION C
SE-0008-01 | SCALE 1 : 100



4 | SECTION D
SE-0008-01 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0008-02	SECTION
1924701-2-510-A-DE-0038-02	SECTION DETAILS
1924701-2-510-A-DE-0038-01	SECTION DETAILS
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

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.

AECOM

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REG. No. 1966/009628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
00	ISSUE FOR CONSTRUCTION	KK	ae	DT	31/01/2017

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	KK	31 01 17
CHECKED	RS	RS	31 01 17
DESIGNED	BE	BE	31 01 17
CHECKED	DT	DT	31 01 17

PR.ENG./PR.TECH./PR.ARCH

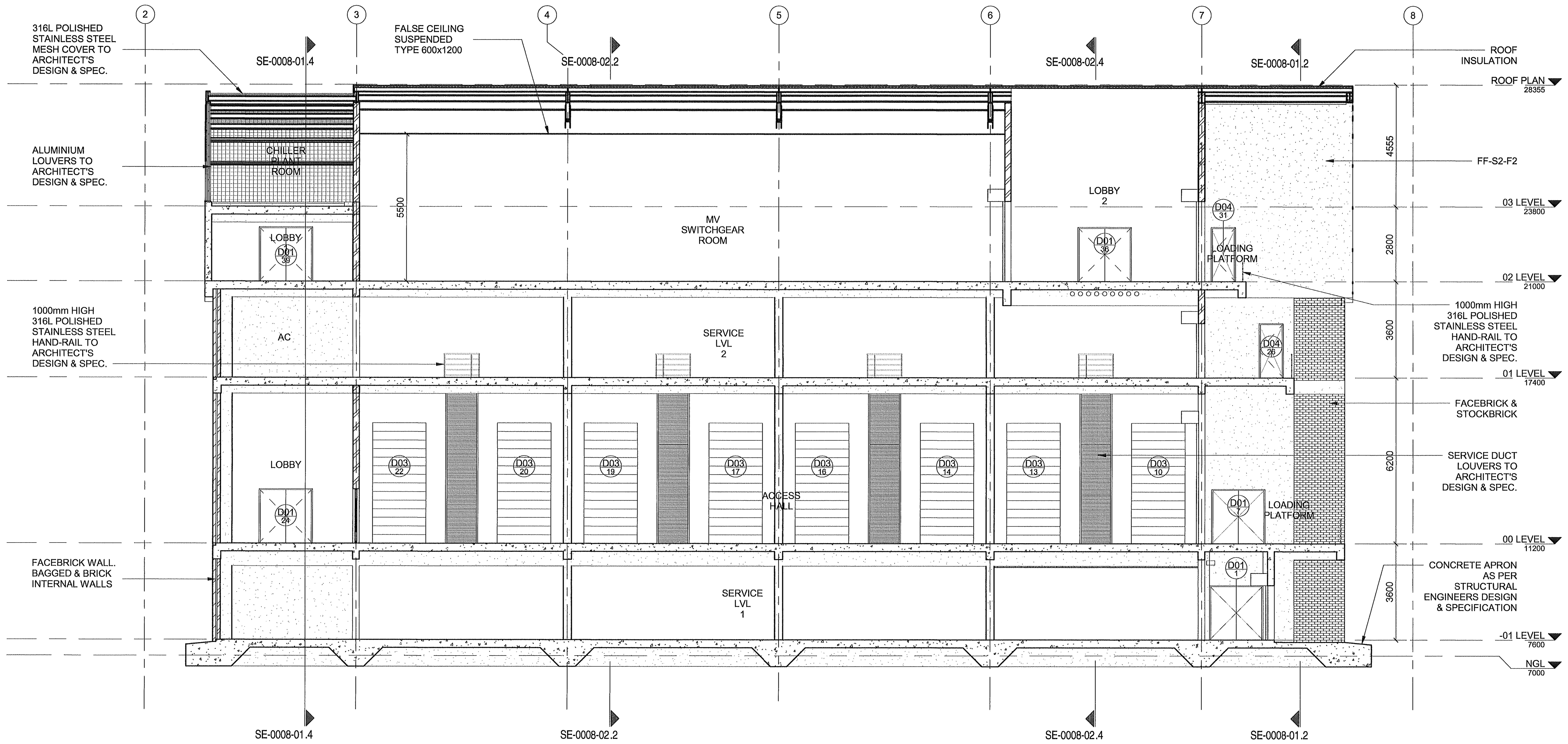
NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000906/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

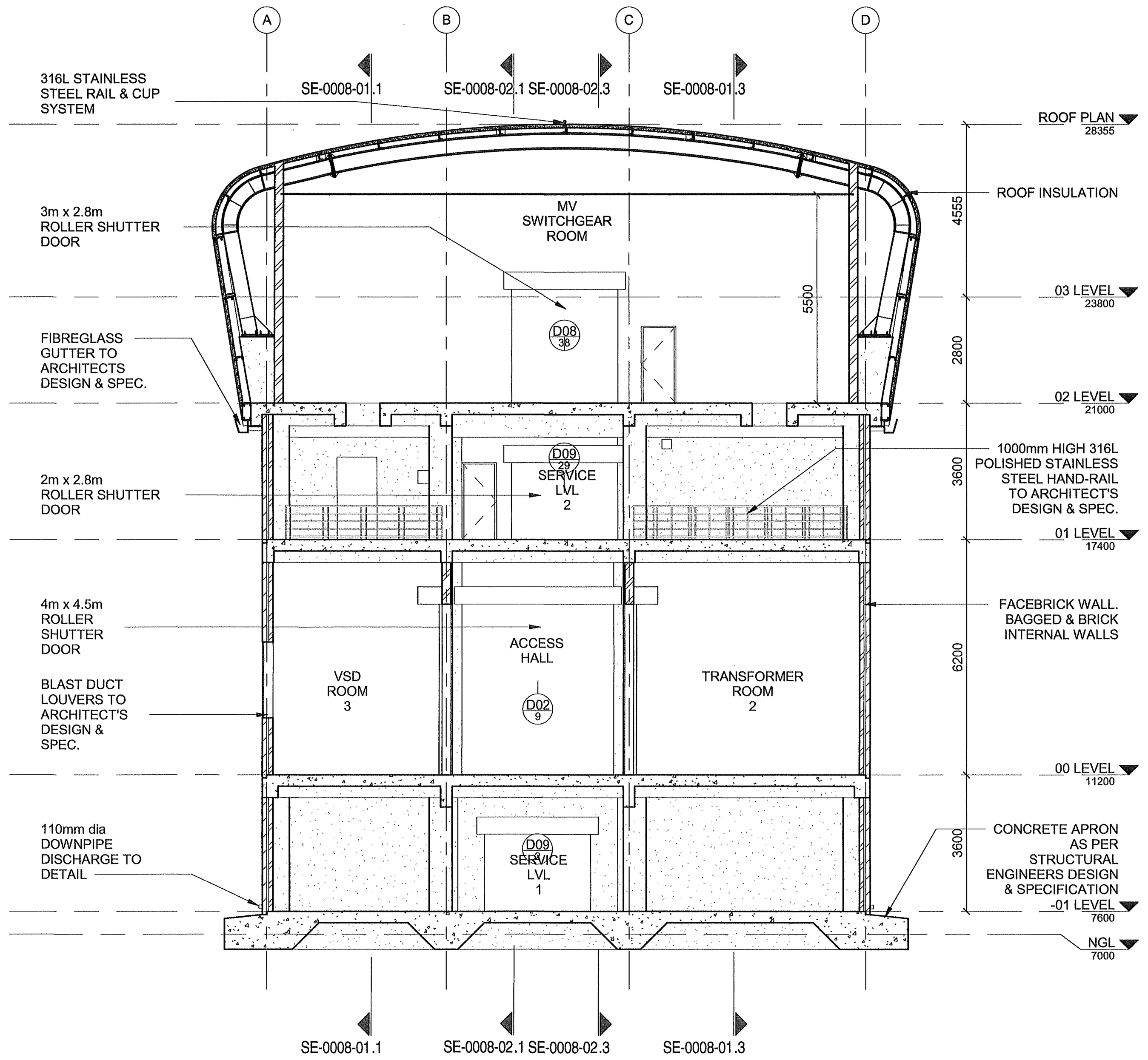
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
SUBSTATION N
SECTIONS

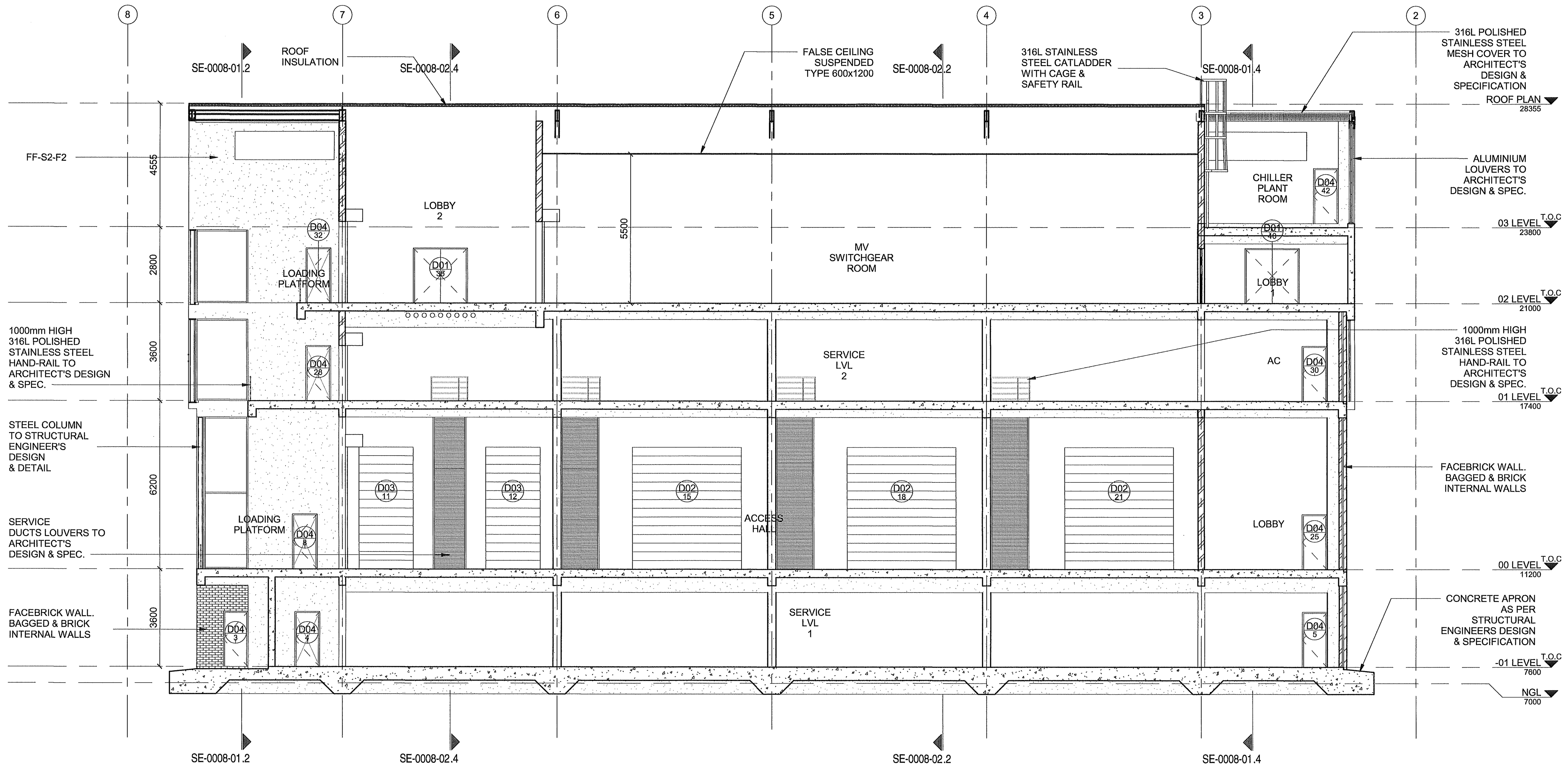
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SE	0008	01	00	AE



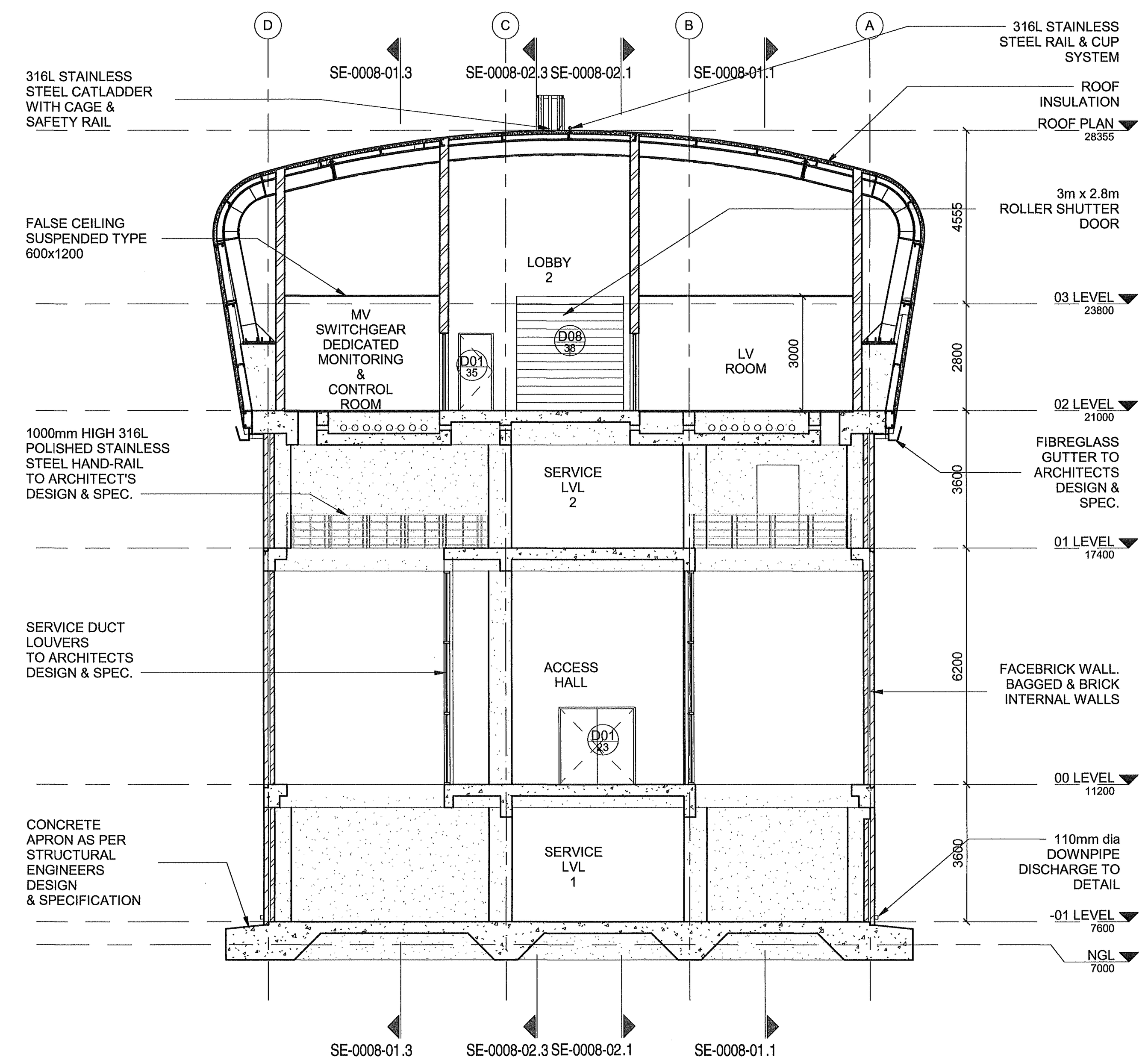
1 SECTION E
SE-0008-02 SCALE 1 : 100



2 SECTION G
SE-0008-02 SCALE 1 : 100



3 SECTION F
SE-0008-02 SCALE 1 : 100



4 SECTION H
SE-0008-02 SCALE 1 : 100

MASTER
02 FEB 2017
AECOM TRANSNET

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-SE-0008-01	SECTION
1924701-2-510-A-DE-0038-02	SECTION DETAILS
1924701-2-510-A-DE-0038-01	SECTION DETAILS
1924701-2-510-A-DE-0037-01	ELEVATIONS
1924701-2-510-A-GA-0014-03	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0014-01	GENERAL ARRANGEMENT

NOTES

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00	ISSUE FOR CONSTRUCTION	KK	BE	DT	31/01/2017

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE		
DRAWN	KK		31	01	17
CHECKED	RS		31	01	17
DESIGNED	BE		31	01	17
CHECKED	DT		31	01	17

PR.ENG./PR.TECH./PR.ARCH

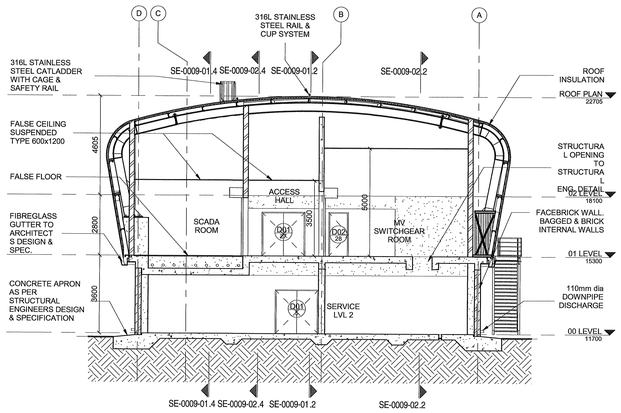
NAME	DEREK THOMAS	DATE		
SIGNATURE		31	01	17
REG. NUMBER	7343			
SCALE:	1:100	A0		

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455
TRANSNET

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SE	0008	02	00	AE



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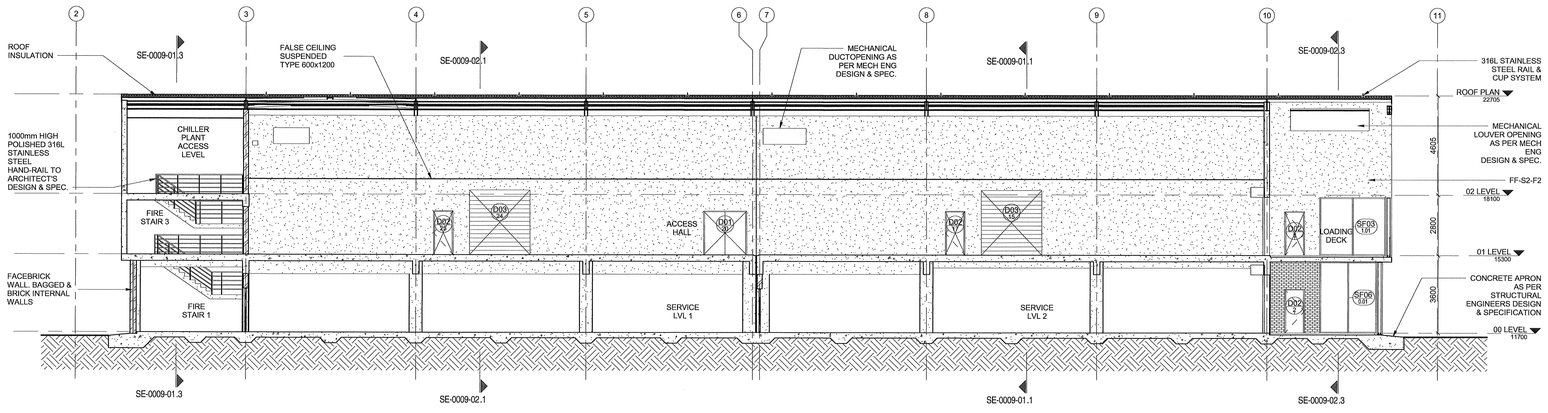
SE-0009-01 | SCALE 1 : 100



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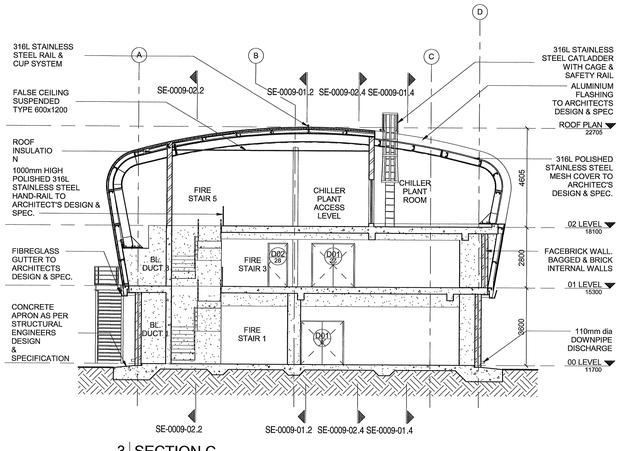
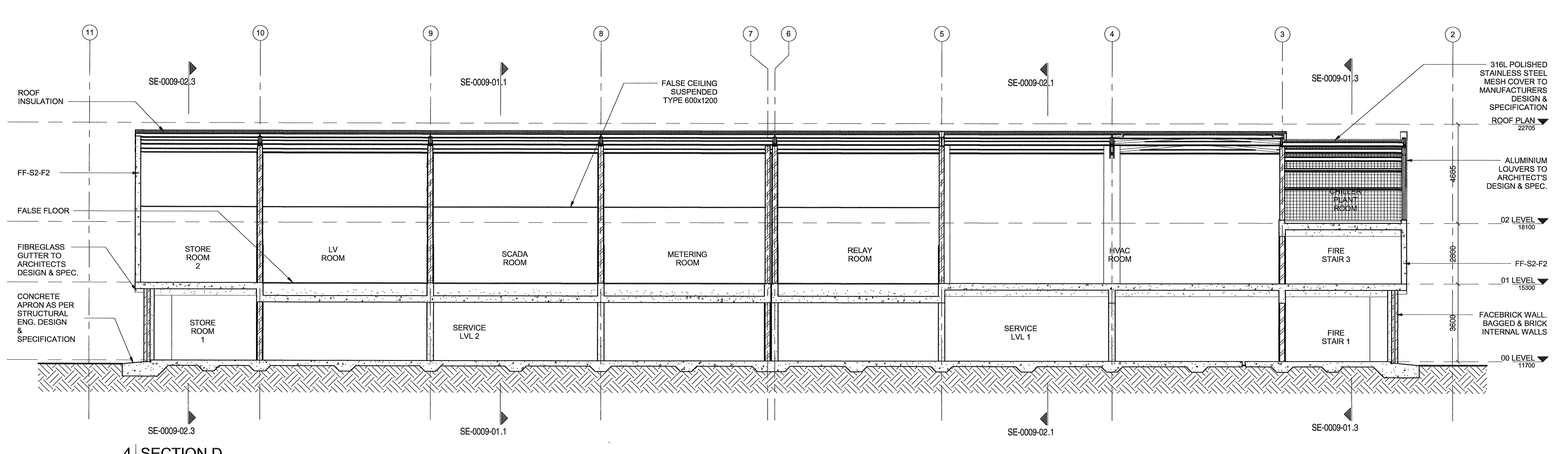
SE-0009-01 | SCALE 1 : 100



3 | SECTION C
SE-0009-01 | SCALE 1 : 100



4 | SECTION D
SE-0009-01 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0039-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED
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FAX: +27 (0)21 950 7502
REG. No. 1966/006828/07

NO	DESCRIPTION	BY	CHK'D	APP'D	DATE
00	ISSUE FOR CONSTRUCTION	KK	AE	DT	31/01/2017

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE
DRAWN	KK	KK	31 01 17
CHECKED	RS	RS	31 01 17
DESIGNED	BE	BE	31 01 17
CHECKED	DT	DT	31 01 17

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000906/06
TABLE BAY BUILDING, TYGERBERG PARK,
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8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: NEW MAIN INTAKE SUBSTATION SECTIONS

PROJECT NUMBER																OO	FBS			DIS	TYPE	DRAWING NO.				SHEET		REV	ID
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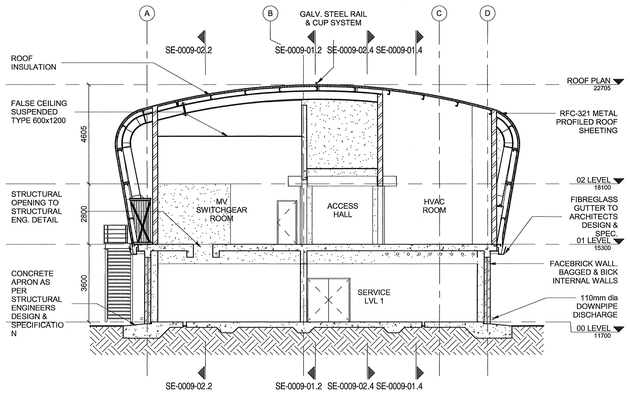

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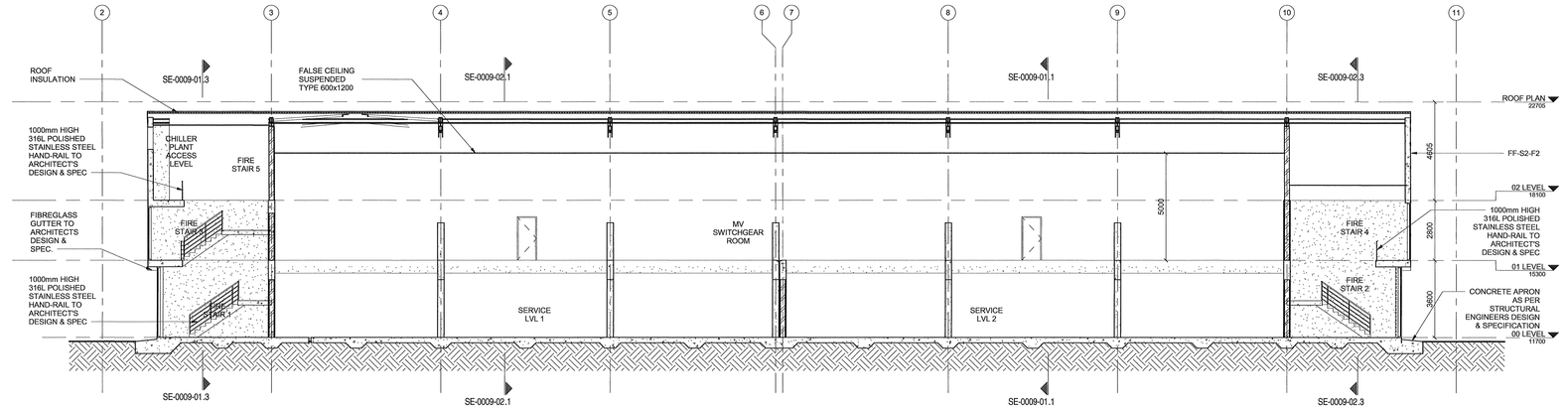
SE-0009-02 | SCALE 1 : 100



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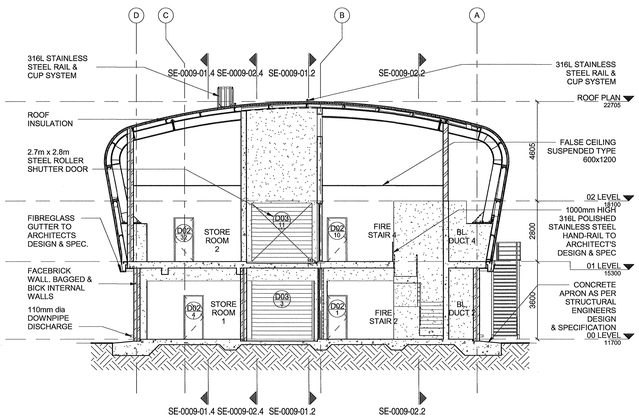
SE-0009-02 | SCALE 1 : 100



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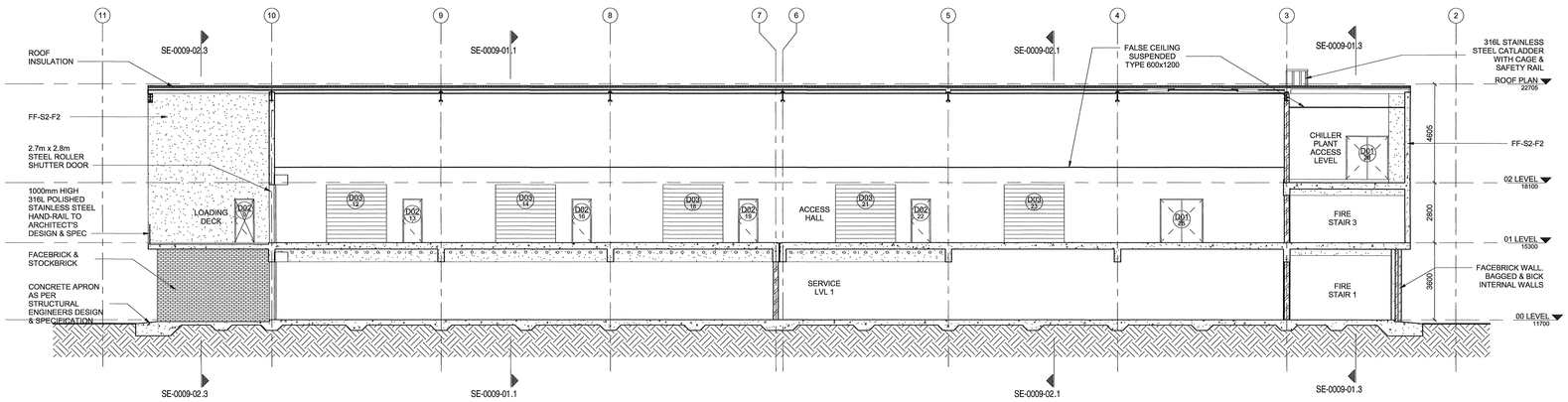
SE-0009-02 | SCALE 1 : 100



4 | SECTION H
SE-0009-02 | SCALE 1 : 100

MASTER
02 FEB 2017
AECOM
TRANSNET

DRAWING NO.	REFERENCE
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1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

1. **DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED**
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CARL CRONJE DRIVE

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00	ISSUE FOR CONSTRUCTION	KK	B.E	D.T	31/01/2017

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TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE
DRAWN	KK	K.K.	31 01 17
CHECKED	RS	RS	31 01 17
DESIGNED	BE	BE	31 01 17
CHECKED	DT		31 01 17

PR.ENG./PR.TECH./PR.ARCH

NAME	DEREK THOMAS	DATE
SIGNATURE		31 01 17
REG. NUMBER	7343	
SCALE:	1:100	A0

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000906/06
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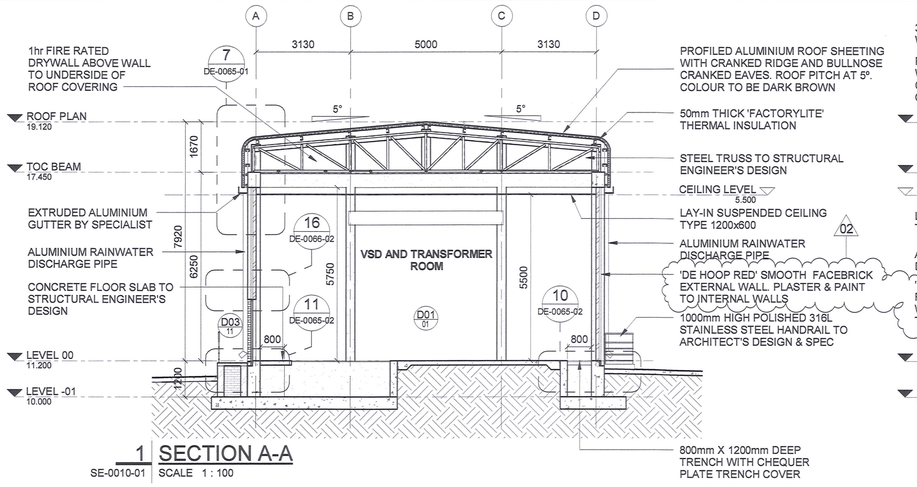
8001
TEL: 021 940 1999
FAX: 086 677 2455

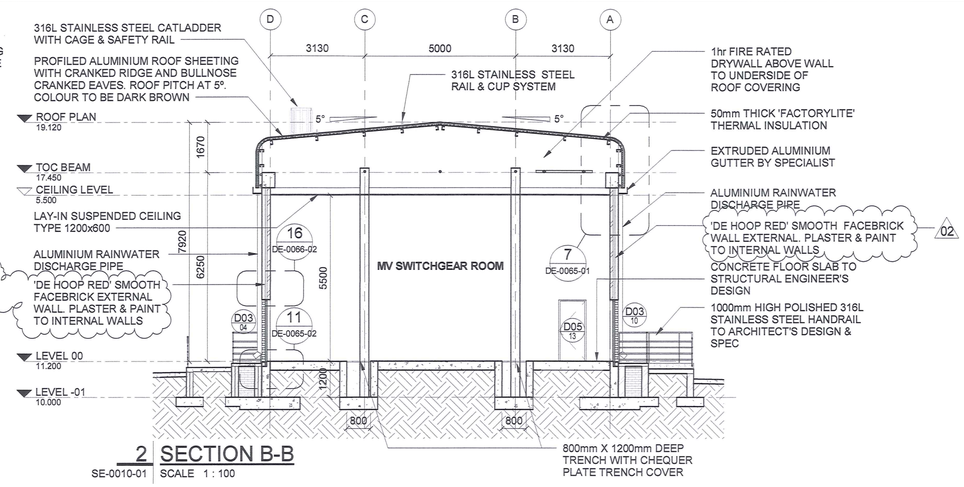
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SECTIONS

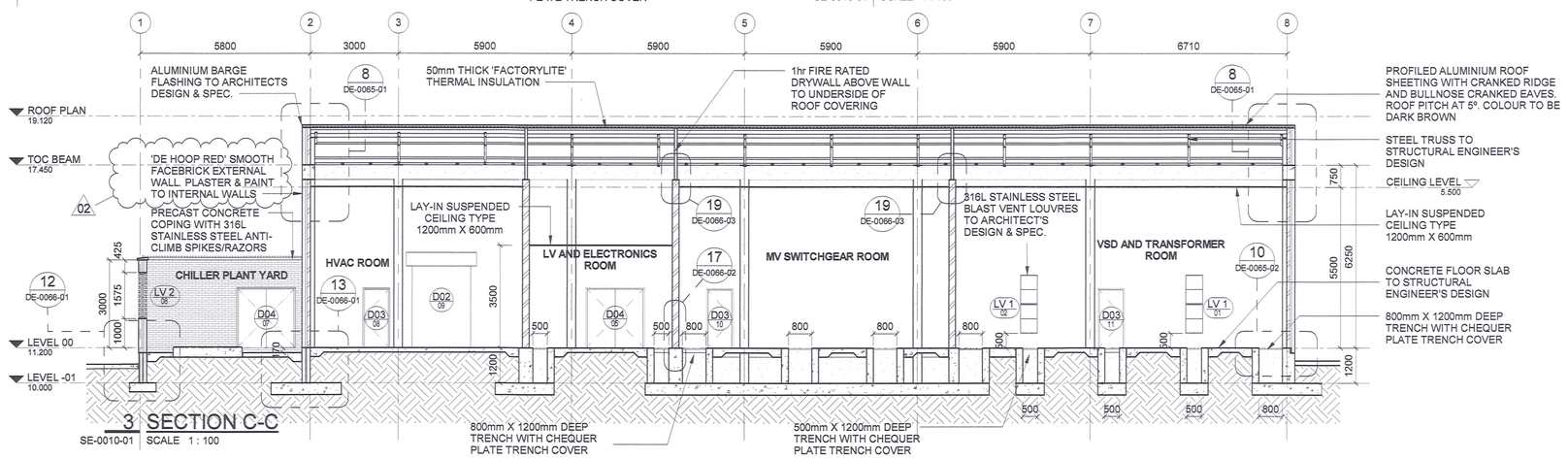
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1 9 2 4 7 0 1	2	5 1 0	A	S E	0 0 0 9	0 2	00	AE



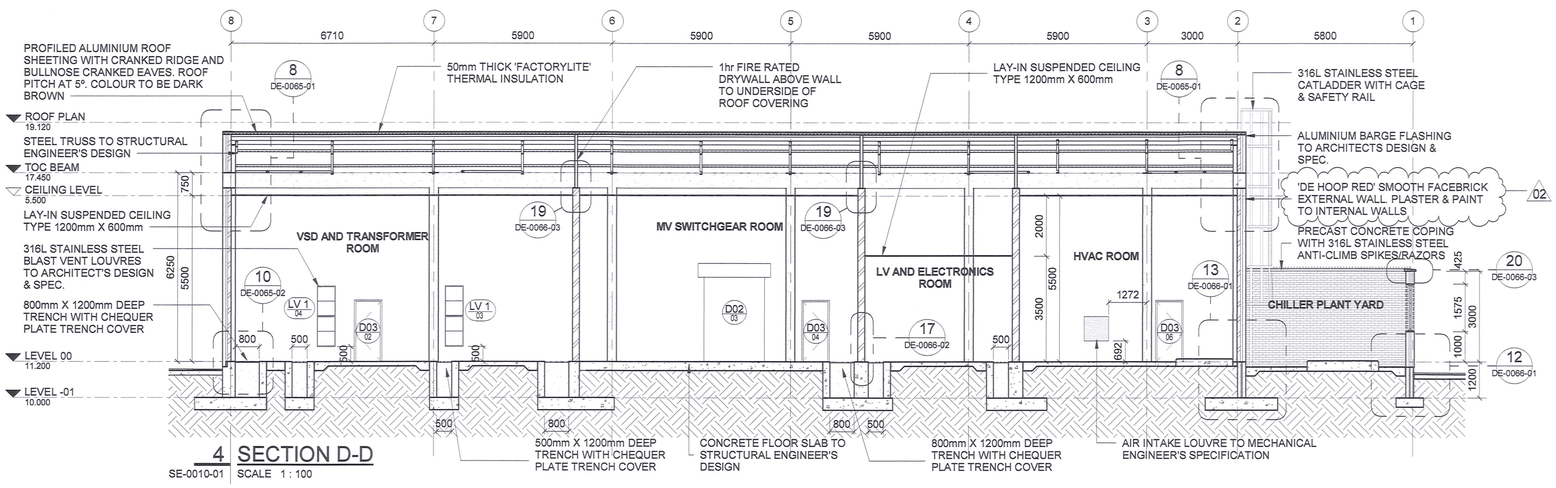
1 SECTION A-A
SE-0010-01 | SCALE 1 : 100



2 SECTION B-B
SE-0010-01 | SCALE 1 : 100



3 SECTION C-C
SE-0010-01 | SCALE 1 : 100



4 SECTION D-D
SE-0010-01 | SCALE 1 : 100

MASTER
07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0066-03	GENERAL DETAILS
1924701-2-510-A-DE-0066-02	GENERAL DETAILS
1924701-2-510-A-DE-0066-01	GENERAL DETAILS
1924701-2-510-A-DE-0065-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0065-01	ROOF DETAILS
1924701-2-510-A-SC-0041-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0035-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0034-01	DOOR SCHEDULE
1924701-2-510-A-SE-0010-02	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-03	CEILING PLAN
1924701-2-510-A-GA-0016-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED
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TYGER WATERFRONT
CARL CRONJE DRIVE
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REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHK	APP	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUED FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	DETAIL REFERENCES ADDED ON SECTIONS				2018/06/22
00	ISSUED FOR CONSTRUCTION.	RU	JPK	JPK	2018/04/20

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TITLE	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:100	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
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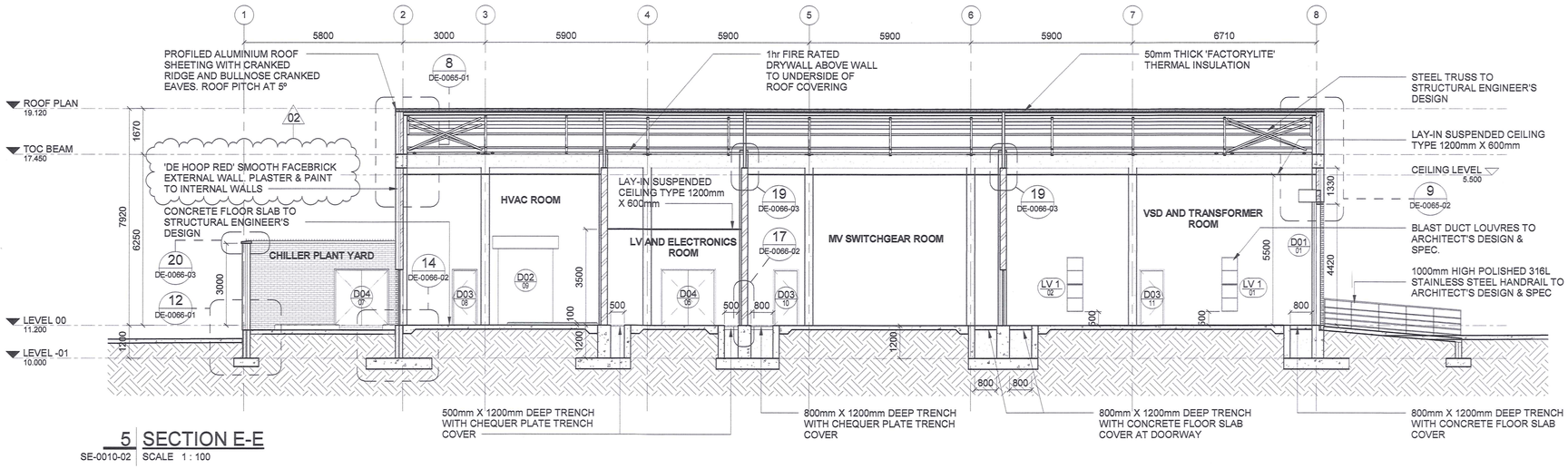
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

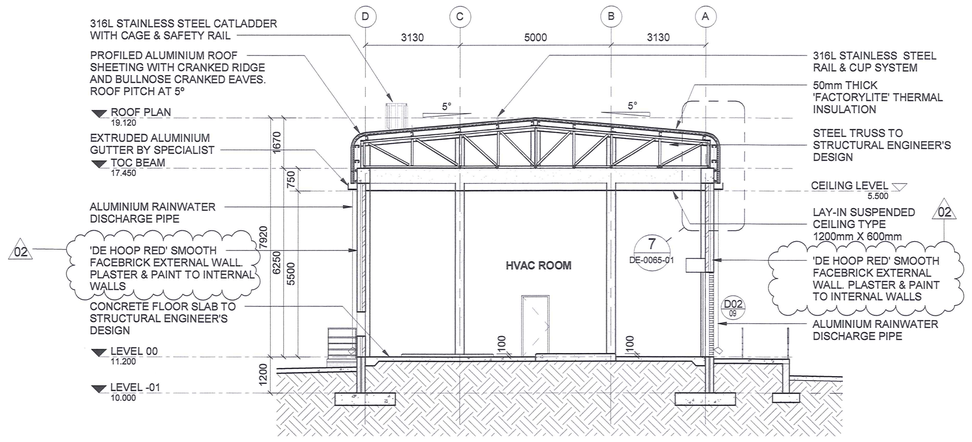
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SE	0010	01	02	AE



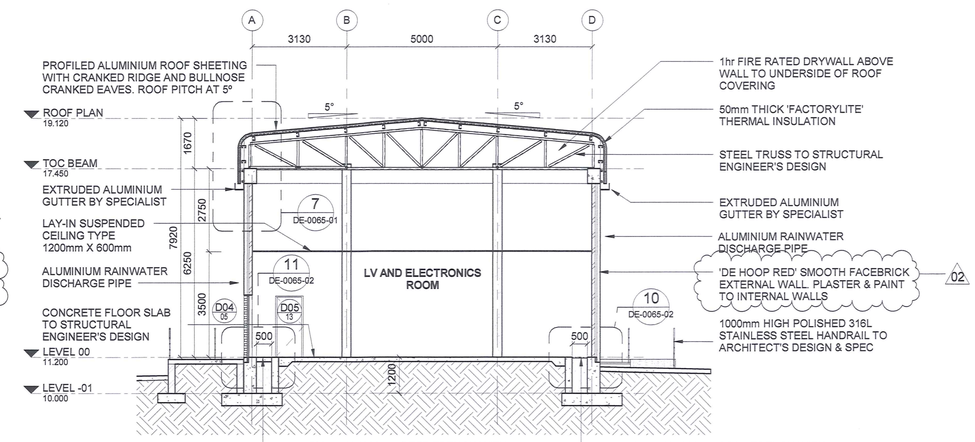
5 SECTION E-E

SE-0010-02 | SCALE 1 : 100



6 SECTION F-F

SE-0010-02 | SCALE 1 : 100



7 SECTION G-G

SE-0010-02 | SCALE 1 : 100

MASTER
07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0066-03	GENERAL DETAILS
1924701-2-510-A-DE-0066-02	GENERAL DETAILS
1924701-2-510-A-DE-0066-01	GENERAL DETAILS
1924701-2-510-A-DE-0065-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0065-01	ROOF DETAILS
1924701-2-510-A-SC-0041-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0035-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0034-01	DOOR SCHEDULE
1924701-2-510-A-SE-0010-01	SECTIONS
1924701-2-510-A-DE-0061-01	ELEVATIONS
1924701-2-510-A-GA-0016-03	CEILING PLAN
1924701-2-510-A-GA-0016-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0016-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED
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AECOM
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FAX: +27 (0)21 950 7502
REG. No. 1968/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUED FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	DETAIL REFERENCES ADDED ON SECTIONS				2018/06/22
00	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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CONTRACTOR/CONSULTANT					
TITLE	NAME	SIGN	DATE		
DRAWN	RU		06	05	19
CHECKED	KK		06	05	19
DESIGNED	JPK		06	05	19
CHECKED	JPK		06	05	19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS					
TITLE	NAME	SIGN	DATE		

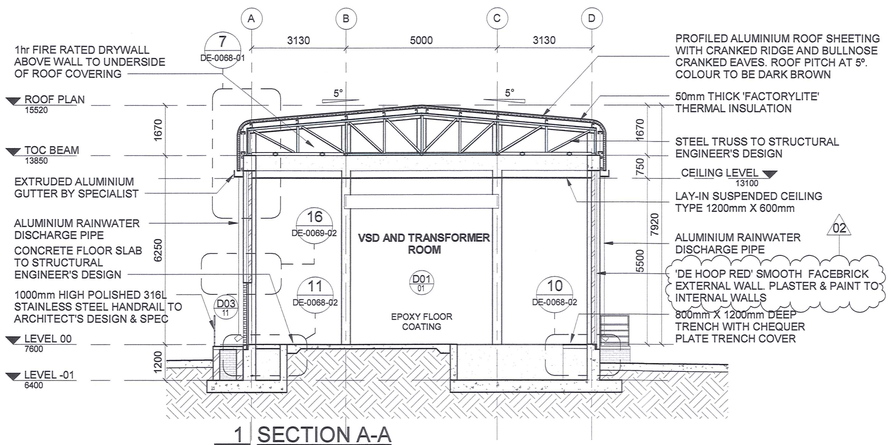
PR.ENG./PR.TECH./PR.ARCH				
NAME	JP KOK	DATE		
SIGNATURE		06	05	19
REG. NUMBER	24743231			
SCALE:	1:100	A1		

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000900/06
TABLE BAY BUILDING, TYGERBERG PARK,
163 LVS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

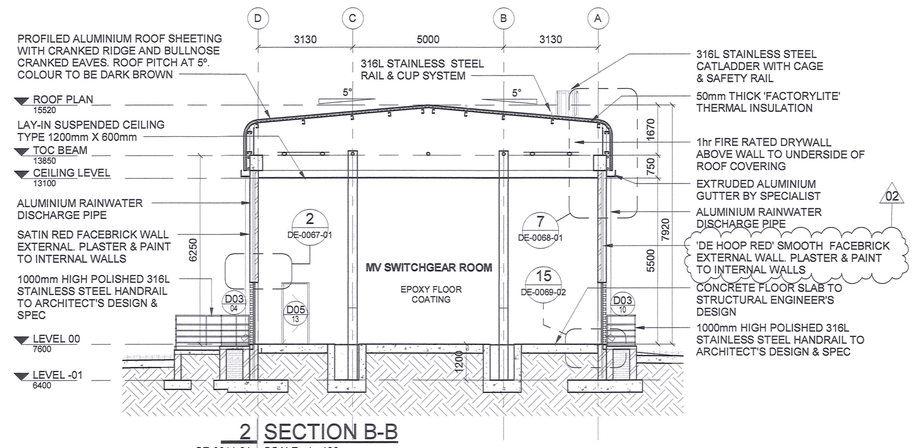
IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION M SECTIONS

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SE	0010	02	02	AE



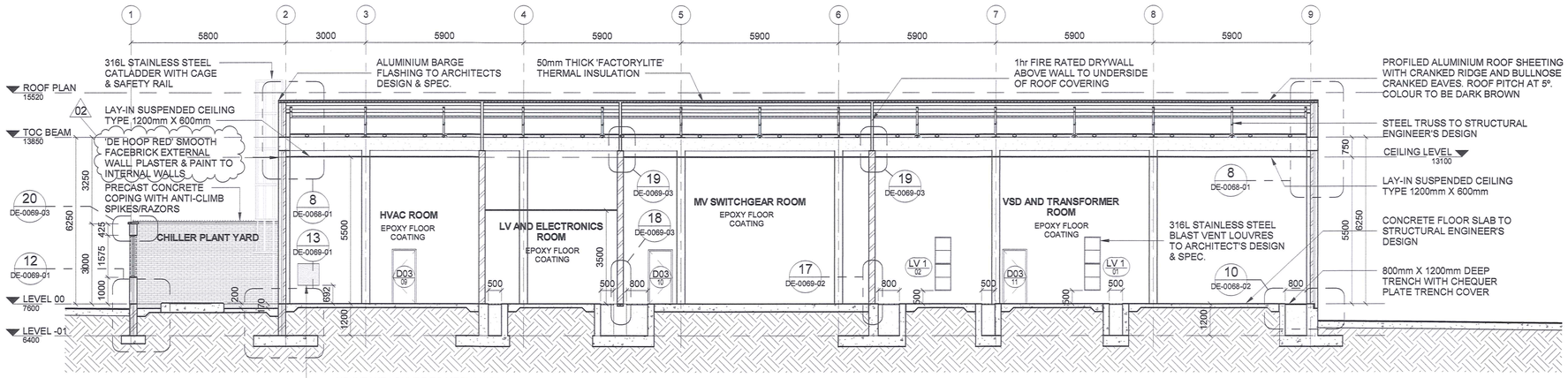
1 SECTION A-A

SE-0011-01 SCALE 1 : 100



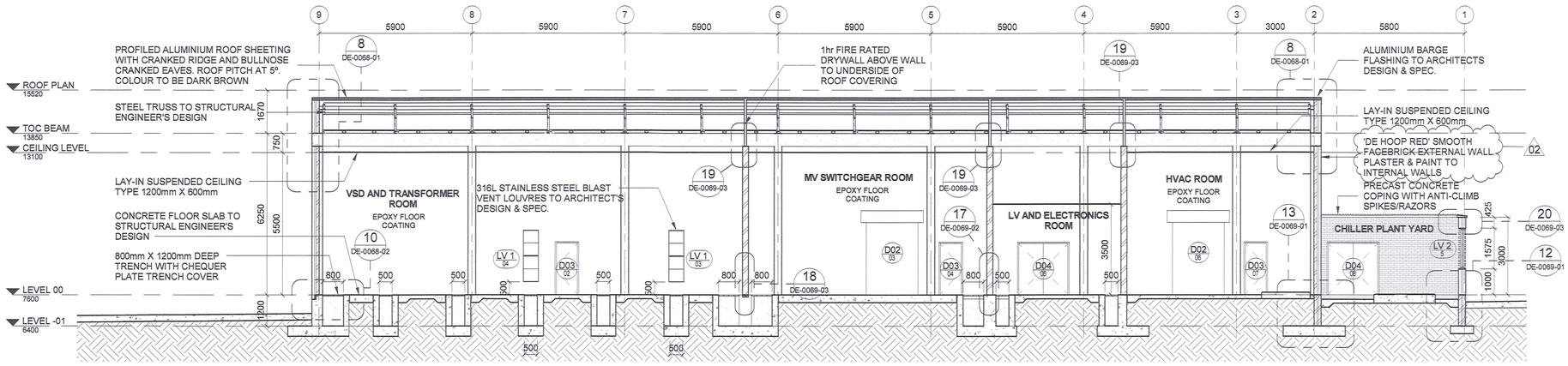
2 SECTION B-B

SE-0011-01 SCALE 1 : 100



3 SECTION C-C

SE-0011-01 SCALE 1 : 100



4 SECTION D-D

SE-0011-01 SCALE 1 : 100

MASTER
07 MAY 2019
AECOM TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0069-03	GENERAL DETAILS
1924701-2-510-A-DE-0069-02	GENERAL DETAILS
1924701-2-510-A-DE-0069-01	GENERAL DETAILS
1924701-2-510-A-DE-0068-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0068-01	ROOF DETAILS
1924701-2-510-A-SC-0040-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0037-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0036-01	DOOR SCHEDULE
1924701-2-510-A-SE-0011-02	SECTIONS
1924701-2-510-A-DE-0062-01	ELEVATIONS
1924701-2-510-A-GA-0017-03	CEILING PLAN
1924701-2-510-A-GA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)

REFERENCE DRAWINGS

NOTES

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NO	DESCRIPTION	BY	CHK	APP'D	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUE FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	DETAIL REFERENCES ADDED ON SECTIONS				2018/06/22
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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CONTRACTOR/CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS

TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS

TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH

NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:100	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS): REG. NO. 1990/000900/06
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8001
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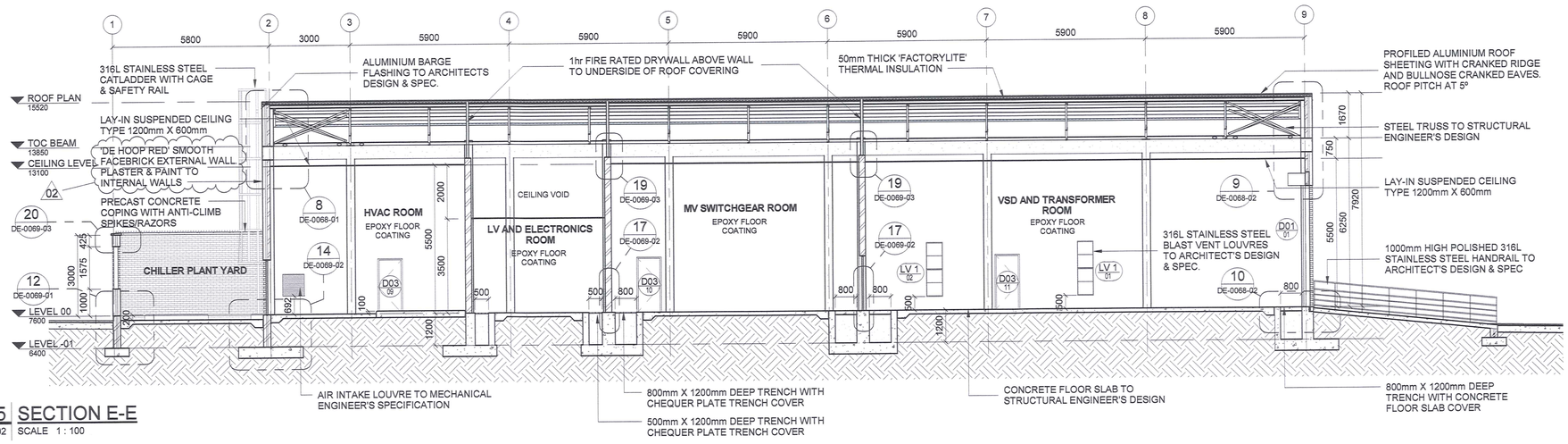
FAX: 086 677 2455

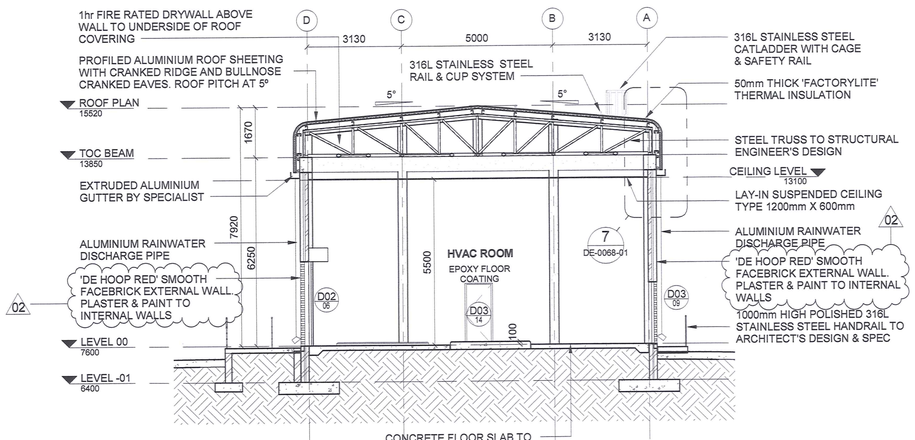
PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N SECTIONS

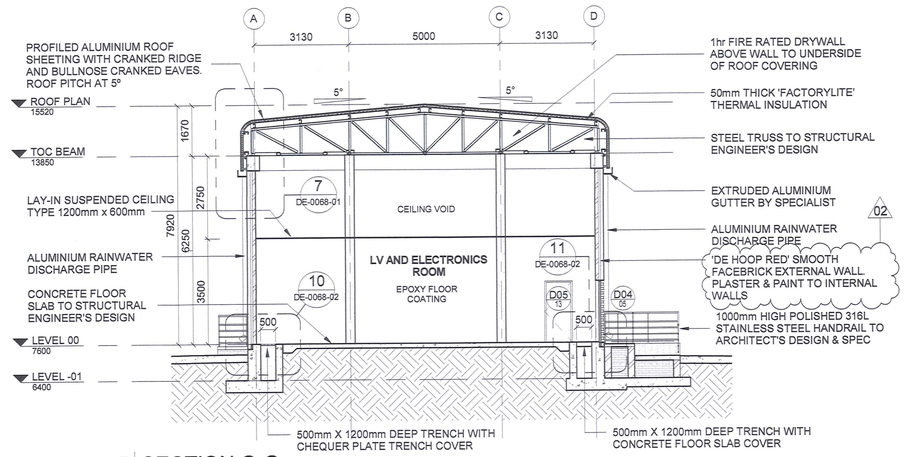
PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
1924701	2	510	A	SE	0011	01	02	AE



5 SECTION E-E
SE-0011-02 | SCALE 1 : 100



6 SECTION F-F
SE-0011-02 | SCALE 1 : 100



7 SECTION G-G
SE-0011-02 | SCALE 1 : 100

MASTER
07 MAY 2019
AECOM TRANSNET

1924701-2-510-A-DE-0069-03	GENERAL DETAILS
1924701-2-510-A-DE-0069-02	GENERAL DETAILS
1924701-2-510-A-DE-0069-01	GENERAL DETAILS
1924701-2-510-A-DE-0068-02	ROOF AND TRENCH DETAILS
1924701-2-510-A-DE-0068-01	ROOF DETAILS
1924701-2-510-A-SC-0040-01	ROOM FINISHES SCHEDULE
1924701-2-510-A-SC-0037-01	LOUVRE SCHEDULE
1924701-2-510-A-SC-0036-01	DOOR SCHEDULE
1924701-2-510-A-SE-0011-01	SECTIONS
1924701-2-510-A-DE-0062-01	ELEVATIONS
1924701-2-510-A-GA-0017-03	CEILING PLAN
1924701-2-510-A-GA-0017-02	GENERAL ARRAGEMENT (ROOF PLAN)
1924701-2-510-A-GA-0017-01	GENERAL ARRAGEMENT (FLOOR PLAN)
DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NOTES

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FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	2019/05/06
	FACEBRICK SPECIFICATION AMENDED				2019/05/06
01	ISSUE FOR CONSTRUCTION :	RU	JPK	JPK	2018/06/22
	SHEET REFERENCES ADDED				2018/06/22
	DETAIL REFERENCES ADDED ON SECTIONS				2018/06/22
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	2018/04/20

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CONTRACTOR/CONSULTANT			
TITLE	NAME	SIGN	DATE
DRAWN	RU		06 05 19
CHECKED	KK		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH		
NAME	JP KOK	DATE
SIGNATURE		06 05 19
REG. NUMBER	24743231	
SCALE:	1:100	A1

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) : REG. NO. 1990/000903/06
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163 LUYS KRIGE DRIVE, PLATTEKLOOF, 8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT BULK POWER UPGRADE: SUBSTATION N SECTIONS

PROJECT NUMBER				OD	FBS			DIS	TYPE		DRAWING NO.			SHEET		REV	ID
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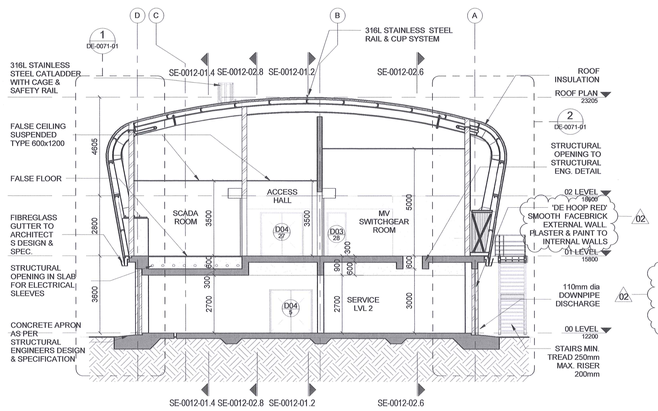

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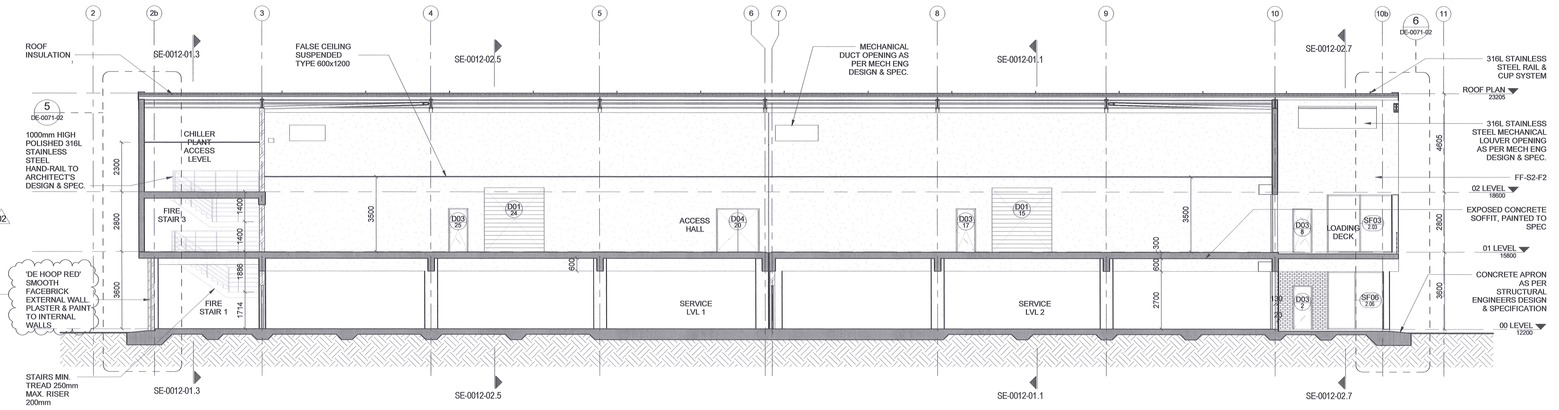
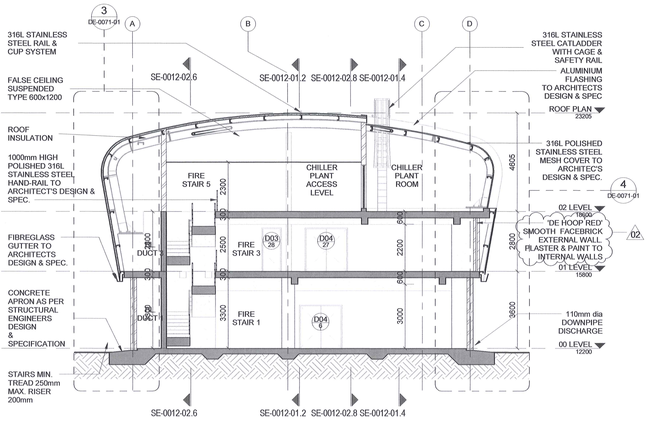
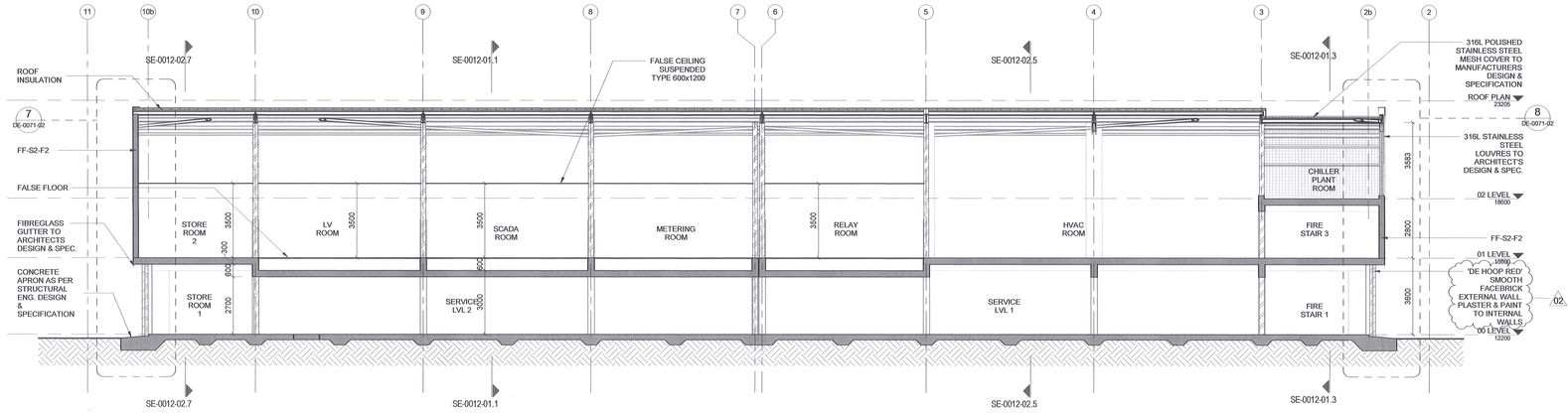
SE-0012-01 | SCALE 1 : 100



2 | SECTION B
SE-0012-01 | SCALE 1 : 100



3 | SECTION C
SE-0012-01 | SCALE 1 : 100



4 | SECTION D
SE-0012-01 | SCALE 1 : 100

MASTER
07 MAY 2019
AECOM
TRANSNET

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0009-02	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

REFERENCE DRAWINGS

NOTES

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TEL: +27 (0)21 950 7500
FAX: +27 (0)21 950 7502
REG. No. 1966/006628/07

NO	DESCRIPTION	BY	CHKD	APPD	DATE
'02'	ISSUED FOR CONSTRUCTION:	RU	JPK	JPK	20190506
	FACEBRICK SPECIFICATION AMENDED				20190506
01	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	20180628
	SKIN SECTION MARKERS ADDED				20180628
	CEILING LEVEL LOWERED AT FIRE STAIR 5				20180628
	STEEL COLUMN ON GRIDLINE B/10b REPLACED WITH RC COLUMN				20180628
	EXTERNAL STEEL STAIRCASES AMENDED				20180628
	DIMENSIONS AND NOTES ADDED / AMENDED				20180628
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	20180430

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	DRAWN	KK		06 05 19
	CHECKED	RU		06 05 19
	DESIGNED	JPK		06 05 19
	CHECKED	JPK		06 05 19

OPERATING DIVISIONS	TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS	TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	JP NEL
DATE	06 05 19
SIGNATURE	
REG. NUMBER	20043231
SCALE:	1:100

Transnet Capital Projects
TRANSNET LTD (TRADING AS TRANSNET CAPITAL PROJECTS) REG. NO. 1990/000906
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SECTIONS

PROJECT NUMBER							ODI	FBS			DRS	TYPE		DRAWING NO.			SHEET	REV	ID
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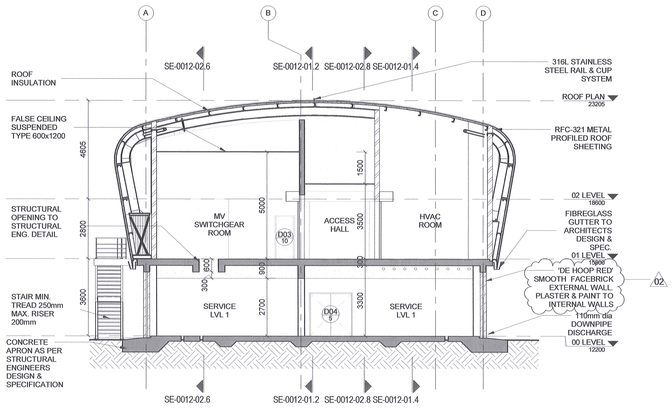
A0



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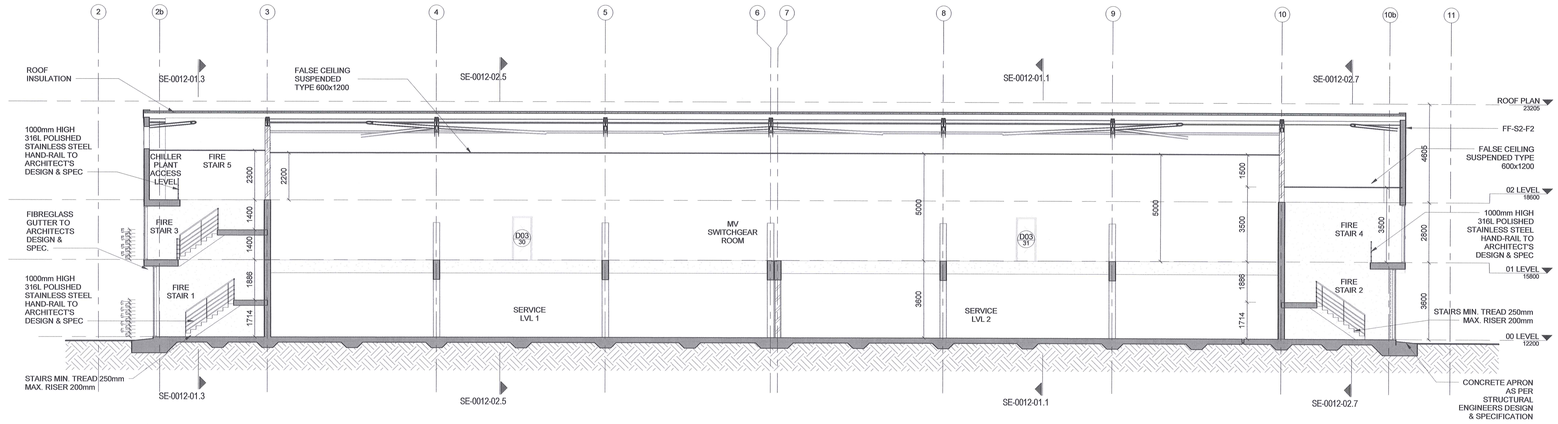
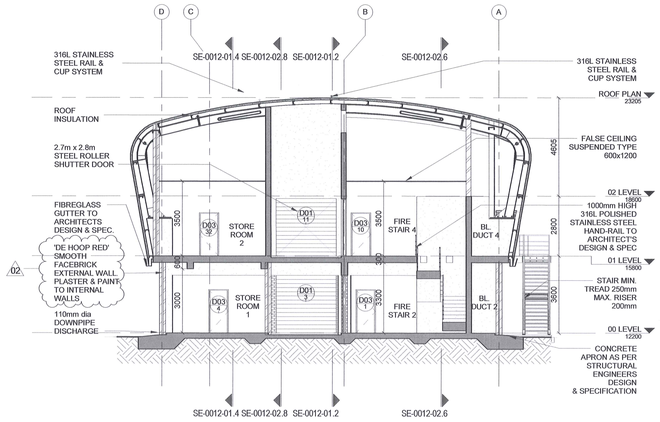
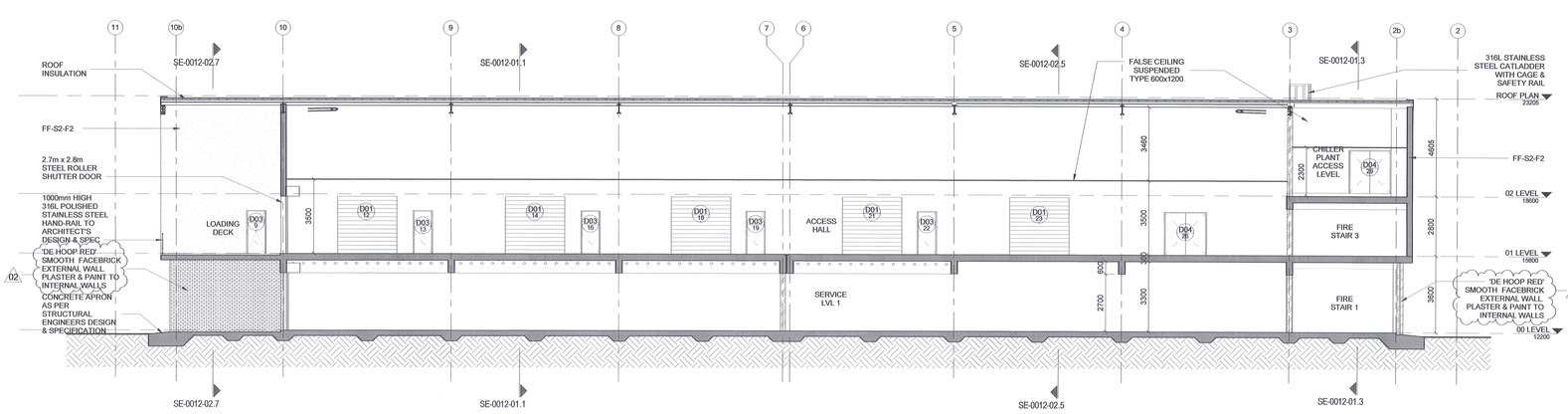
SE-0012-02 | SCALE 1 : 100



6 | SECTION F
SE-0012-02 | SCALE 1 : 100



7 | SECTION G
SE-0012-02 | SCALE 1 : 100



8 | SECTION H
SE-0012-02 | SCALE 1 : 100

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07 MAY 2019
AECOM
TRANSNET

NOTES

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REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
1924701-2-510-A-DE-0063-01	ELEVATIONS
1924701-2-510-A-SE-0009-01	SECTIONS
1924701-2-510-A-GA-0015-02	GENERAL ARRANGEMENT
1924701-2-510-A-GA-0015-01	GENERAL ARRANGEMENT

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REG. No. 1966/006628/07

REVISIONS

NO	DESCRIPTION	BY	CHKD	APPD	DATE
02	ISSUED FOR CONSTRUCTION	RU	JPK	JPK	20190506
	FACEBRICK SPECIFICATION AMENDED				20190506
01	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	20180628
	SKIN SECTION MARKERS ADDED				20180628
	CEILING LEVEL LOWERED AT FIRE STAIR 5				20180628
	STEEL COLUMN ON GRIDLINE 8/10b REPLACED WITH RC COLUMN				20180628
	EXTERNAL STEEL STAIRCASES AMENDED				20180628
	DIMENSIONS AND NOTES ADDED / AMENDED				20180628
00	ISSUE FOR CONSTRUCTION	RU	JPK	JPK	20180420

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TITLE	NAME	SIGN	DATE
DRAWN	KK		06 05 19
CHECKED	RU		06 05 19
DESIGNED	JPK		06 05 19
CHECKED	JPK		06 05 19

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE

PR.ENG./PR.TECH./PR.ARCH	
NAME	DATE
SIGNATURE	06 05 19
REG. NUMBER	24743231
SCALE:	1:100

Transnet Capital Projects
TRANSNET LTD. (TRADING AS TRANSNET CAPITAL PROJECTS) | REG. NO. 1990/000096
TABLE BAY BUILDING, TYGERBERG PARK,
163 UYS KRIGE DRIVE, PLATTEKLOOF,
8001
TEL: 021 940 1999
FAX: 086 677 2455

PORT OF SALDANHA

IRON ORE TIPPLER 3 PROJECT
BULK POWER UPGRADE:
NEW MAIN INTAKE SUBSTATION
SECTIONS

PROJECT NUMBER					OD	FBS		DIS	TYPE	DRAWING NO.			SHEET		REV	ID
1	9	2	4	7	0	1	2	5	1	0	A	SE	0	0	1	2	0	2	02	AE

A0