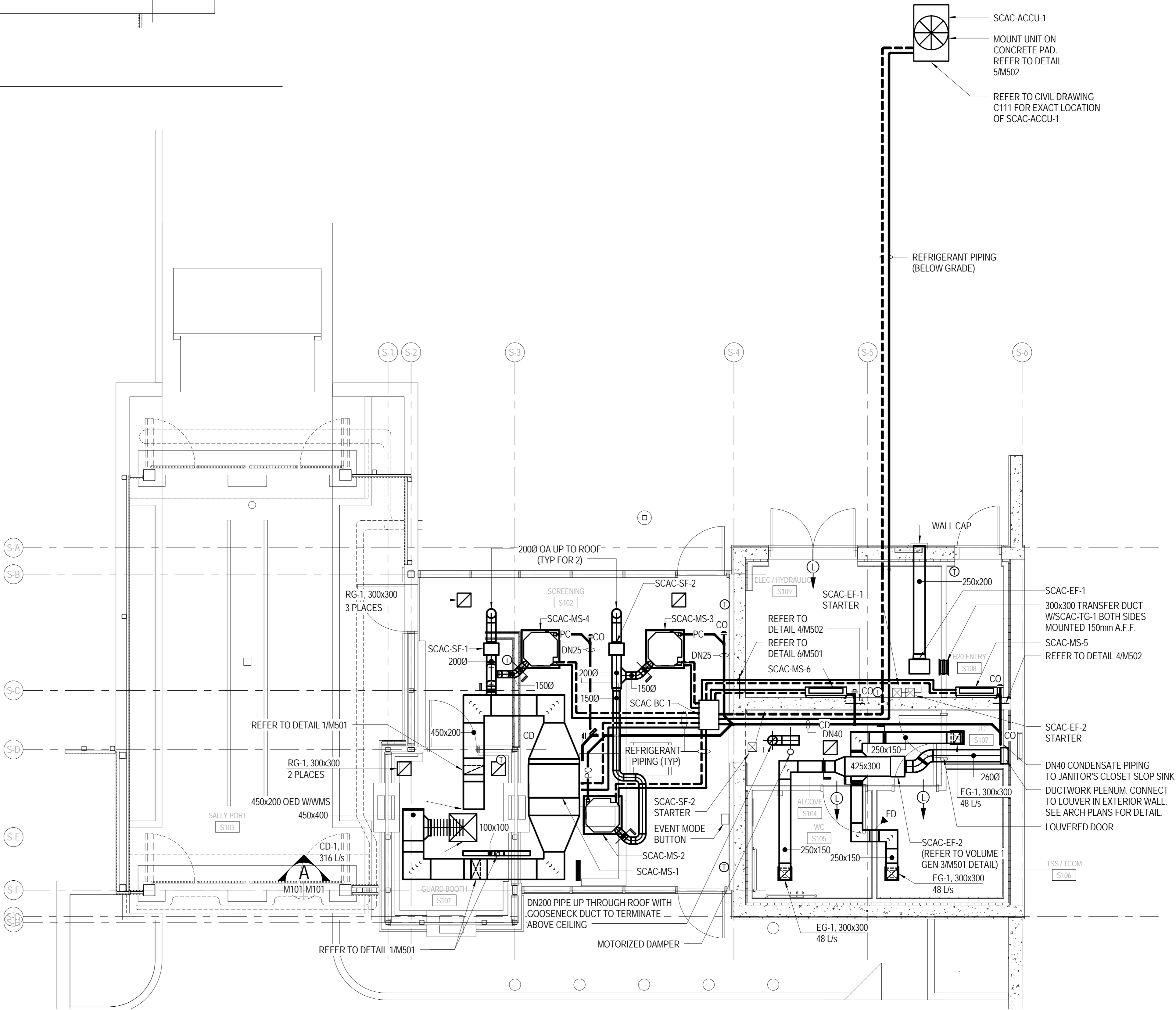
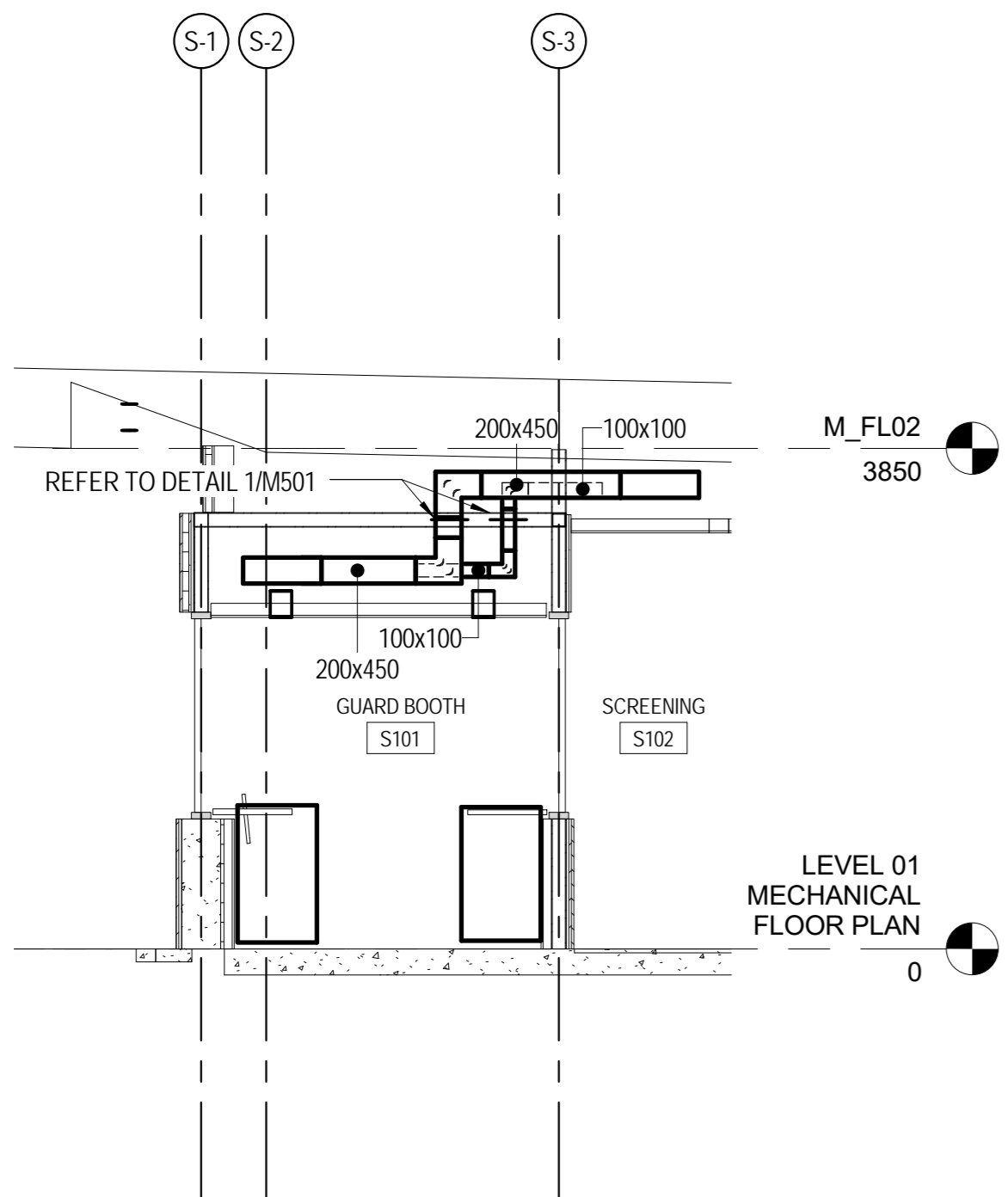


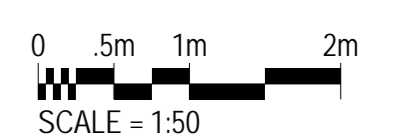
2 SCAC ROOF MECHANICAL PLAN
 M101 SCALE 1:50

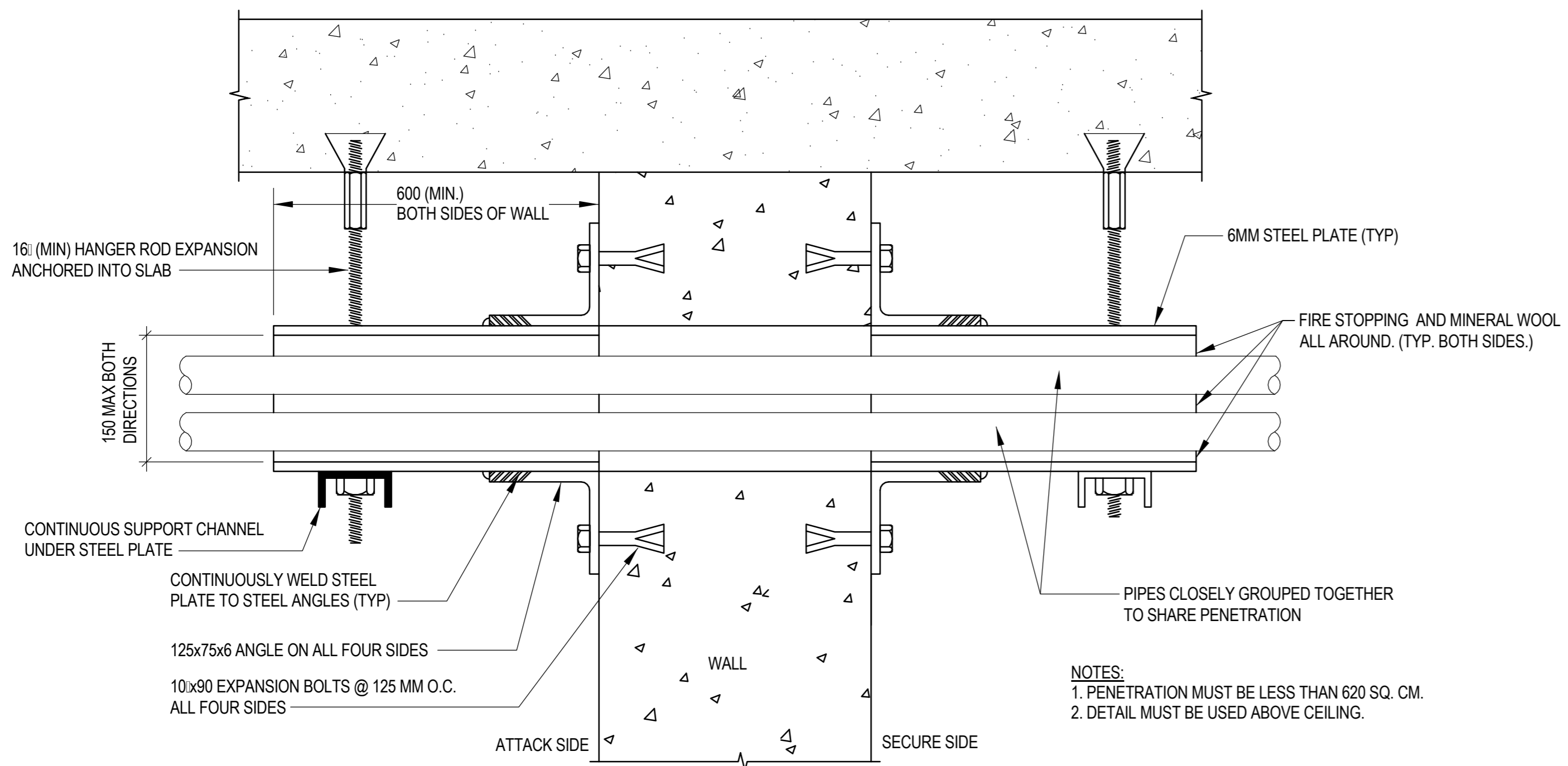


1 SCAC LEVEL 01 MECHANICAL FLOOR PLAN
 M101 SCALE 1:50

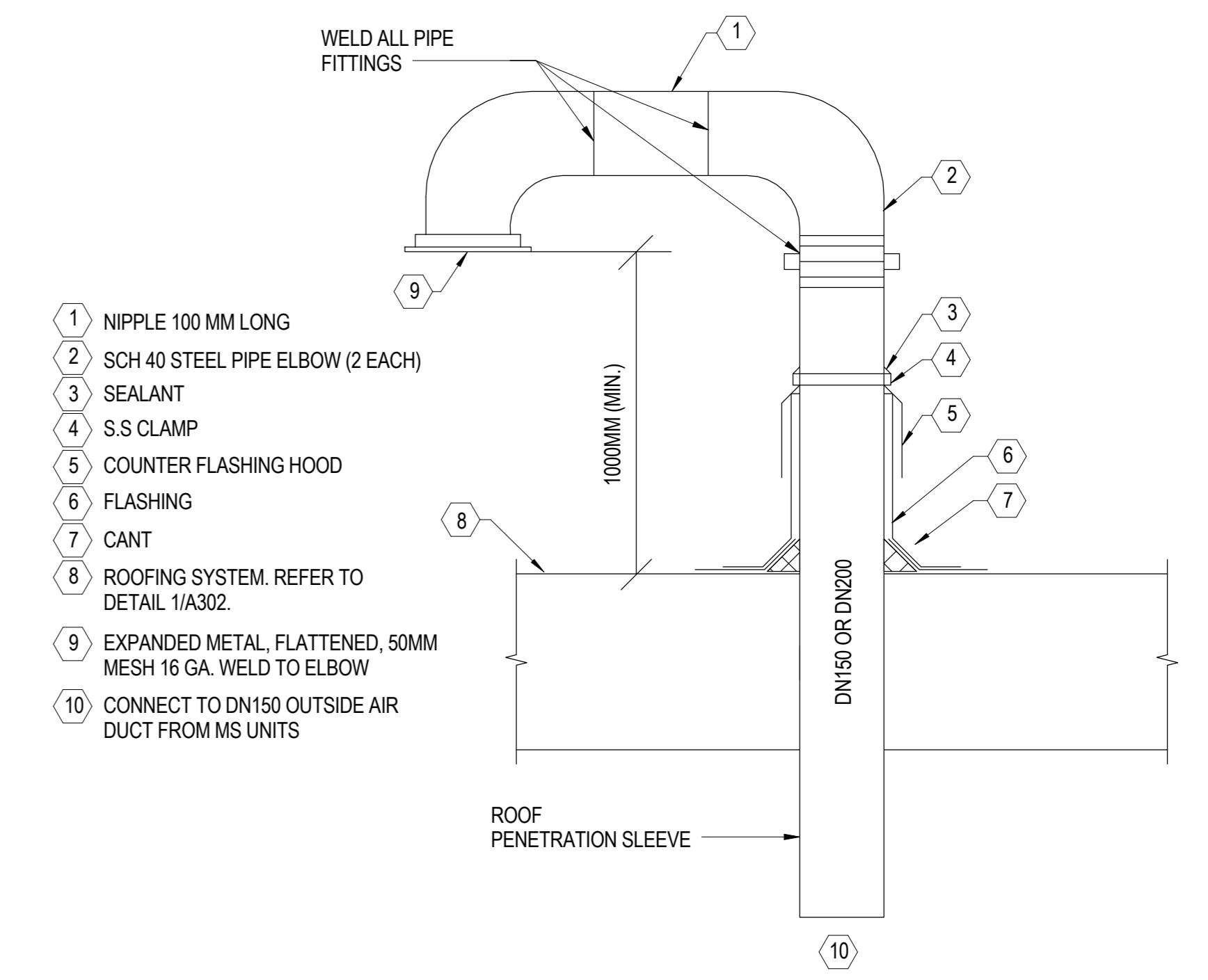


A GUARD BOOTH SECTION
 M101 SCALE 1:50





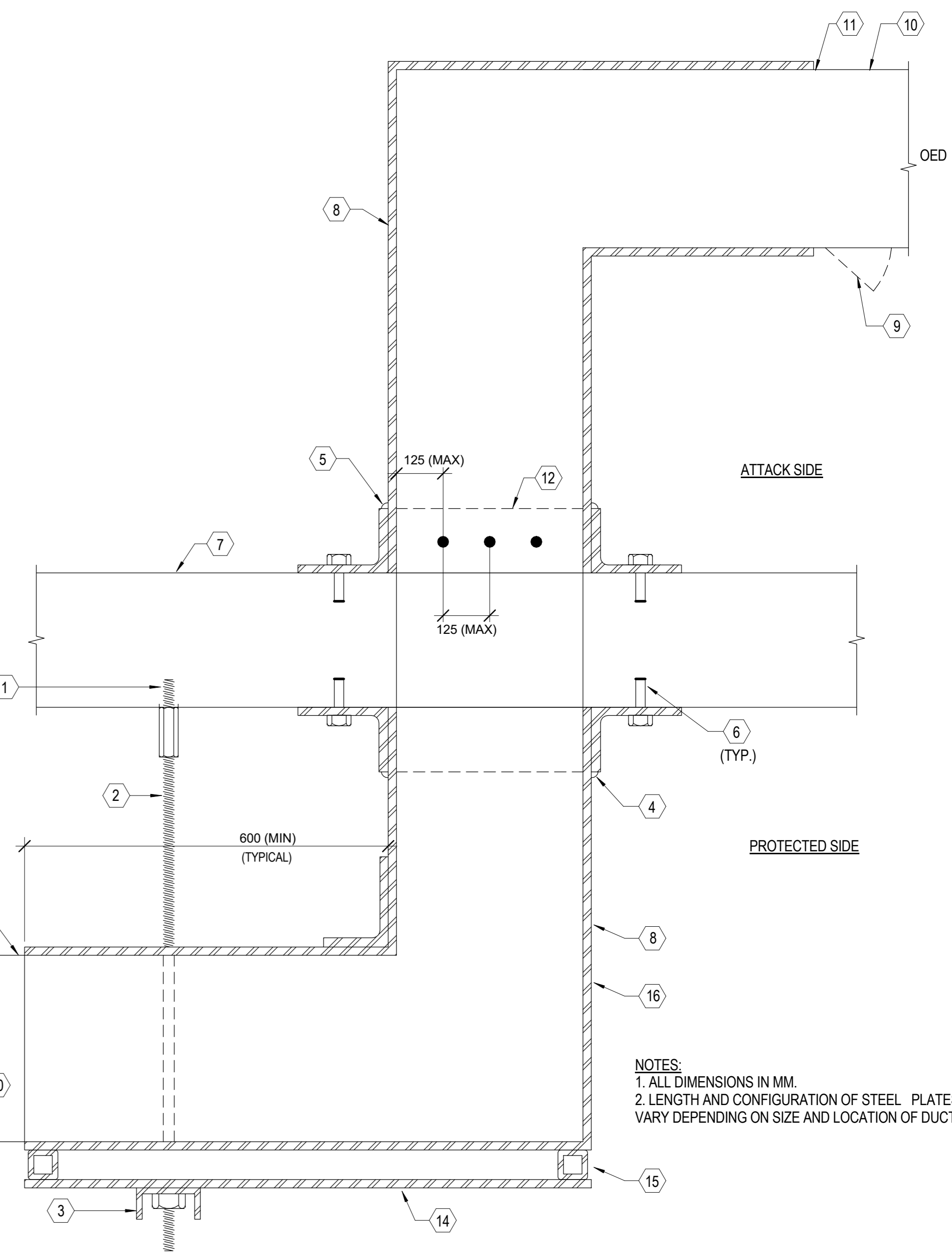
6 FE/BR MULTIPLE WALL PENETRATION DETAIL
M501 SCALE 1:1



5 TYPICAL SECURE OUTSIDE AIR INTAKE ROOF PENETRATION
M501 SCALE 1:1

- 1 NIPPLE 100 MM LONG
- 2 SCH 40 STEEL PIPE ELBOW (2 EACH)
- 3 SEALANT
- 4 S.S CLAMP
- 5 COUNTER FLASHING HOOD
- 6 FLASHING
- 7 CANT
- 8 ROOFING SYSTEM. REFER TO DETAIL 1/A302.
- 9 EXPANDED METAL, FLATTENED, 50MM MESH 16 GA. WELD TO ELBOW
- 10 CONNECT TO DN150 OUTSIDE AIR DUCT FROM MS UNITS

- 1 SECURE HANGER ROD TO STRUCTURE (TYP)
- 2 16 MM Ø MIN. HANGER ROD
- 3 SUPPORT CHANNEL UNDER PLATED DUCT
- 4 CONTINUOUSLY WELD PLATED DUCT TO ANGLES
- 5 125 MM x 75 MM x 6 MM ANGLE TYP. ALL SIDES OF DUCT
- 6 M10x1.5x25 SOCKET HEAD SCREWS @ 125 MM O.C. ALL SIDES. PROVIDE AIRTIGHT SEAL AFTER GRILLE INSULATION. TACK WELD BOLT TO ANGLE.
- 7 FE/BR CEILING. REFER TO STRUCTURAL DRAWING VOLUME 1 GEN-SS21. (STEEL TUBE CONSTRUCTION)
- 8 6 MM STEEL PLATE DUCT. INSIDE DIMENSIONS TO BE THE SAME SIZE AS THE SHEET METAL DUCT. ALL JOINTS TO BE CONTINUOUSLY WELDED.
- 9 300 MM x 300 MM (MIN.) ACCESS PANEL OR 300 MM LONG BY MAXIMUM AVAILABLE WIDTH TO SUIT SMALLER DUCTS. DO NOT HIDE WITH DUCT INSULATION.
- 10 SHEET METAL DUCT
- 11 ATTACH SHEET METAL DUCT TO STEEL PLATE PER SMACNA, TYPICAL.
- 12 GRILLE DESIGN PER DETAIL 2 THIS SHEET.
- 14 6 MM STEEL PLATE (TWO LAYERS) ON BOTTOM SIDE.
- 15 50x50x6 STEEL PLATE (TWO LAYERS) ON BOTTOM SIDE.
- 16 INSULATE STEEL PLATE AS REQUIRED PER SPECIFICATIONS.



1 FE/BR 15 MIN. SLAB PENETRATION
M501 SCALE 1:1

- 1 STEEL TUBE FE/BR CEILING. REFER TO STRUCTURAL DRAWING GEN-SS21.
- 2 6 MM STEEL PLATE TYPICAL
- 3 PIPE INSULATION, AS REQUIRED (FULL LENGTH OF PIPE)
- 4 PIPE
- 5 0 MM GAP (6 MM MAX CONSTRUCTION TOLERANCE) BETWEEN PIPE AND STEEL PLATE.
- 6 M10x1.5x25 SOCKET HEAD CAP SCREWS.

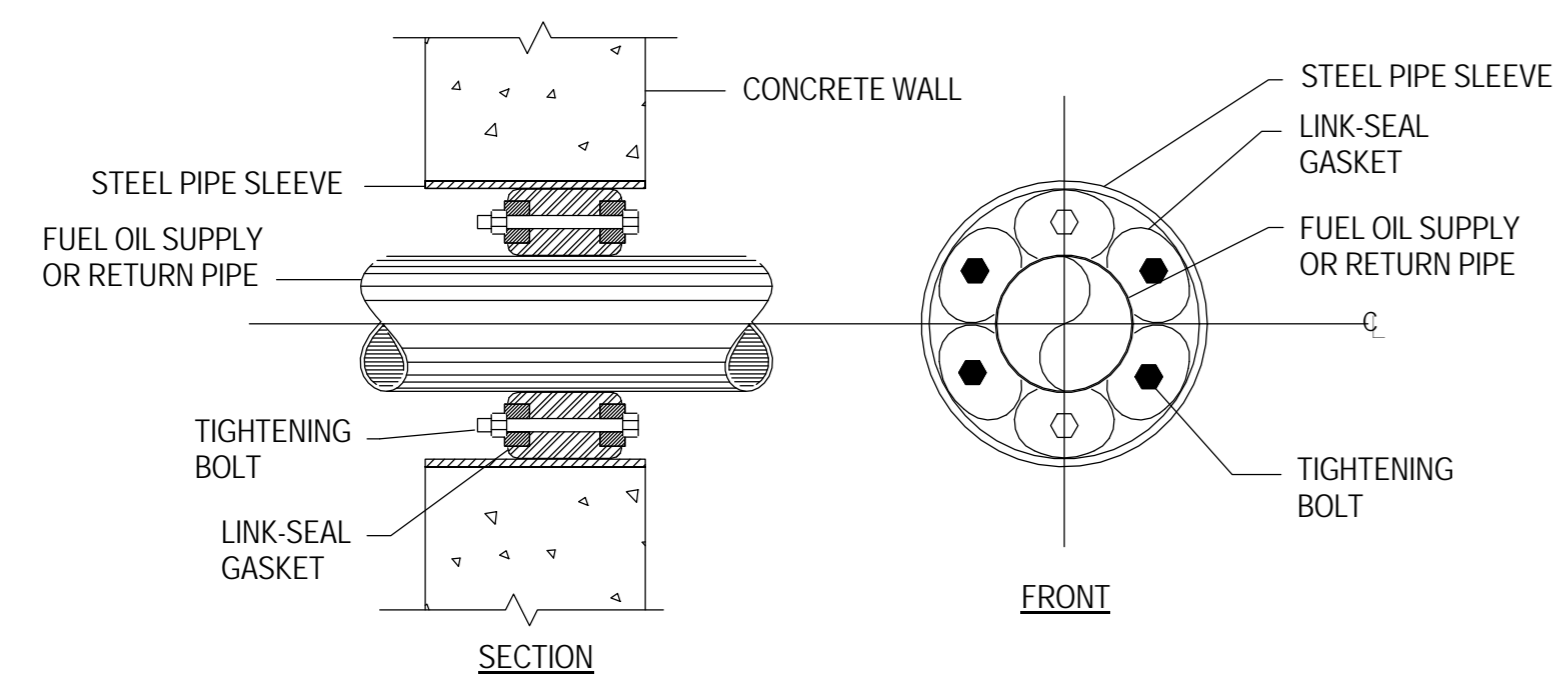
4 VERTICAL PIPE PENETRATION DETAIL
M501 SCALE NTS

- Ø10x90 EXPANSION ANCHOR @ 125 O.C. SEE ANCHORING SPECIFICATION.
- Ø20 (#5) BAR TYP.
- 125 (TYP)
- SECTION A-A
- Ø12 HOLE
- Ø22 HOLE
- 50
- 18
- L125x75x6
- SECTION B-B
- 125 (TYP)
- SECTION C-C
- Ø20 (#5) BAR TYP.
- Ø10x90 EXPANSION ANCHOR @ 125 O.C. SEE ANCHORING SPECIFICATION.
- 75-150 TYP
- 6 TYP
- SECTION C-C
- Ø20 (#5) BAR TYP.
- 50
- 37
- L125x75x6

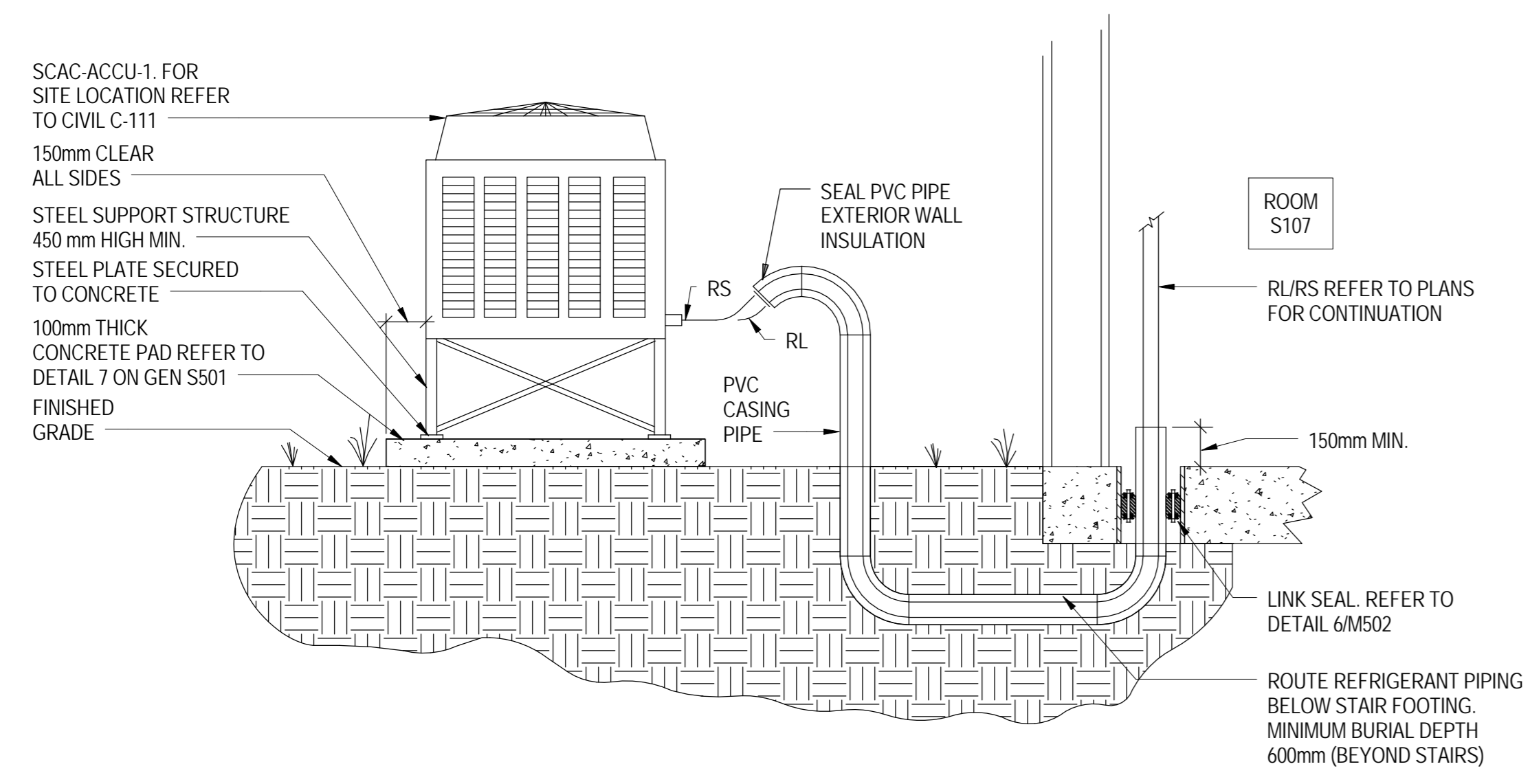
2 15 MINUTE FE GRILLE
M501 SCALE 1:1



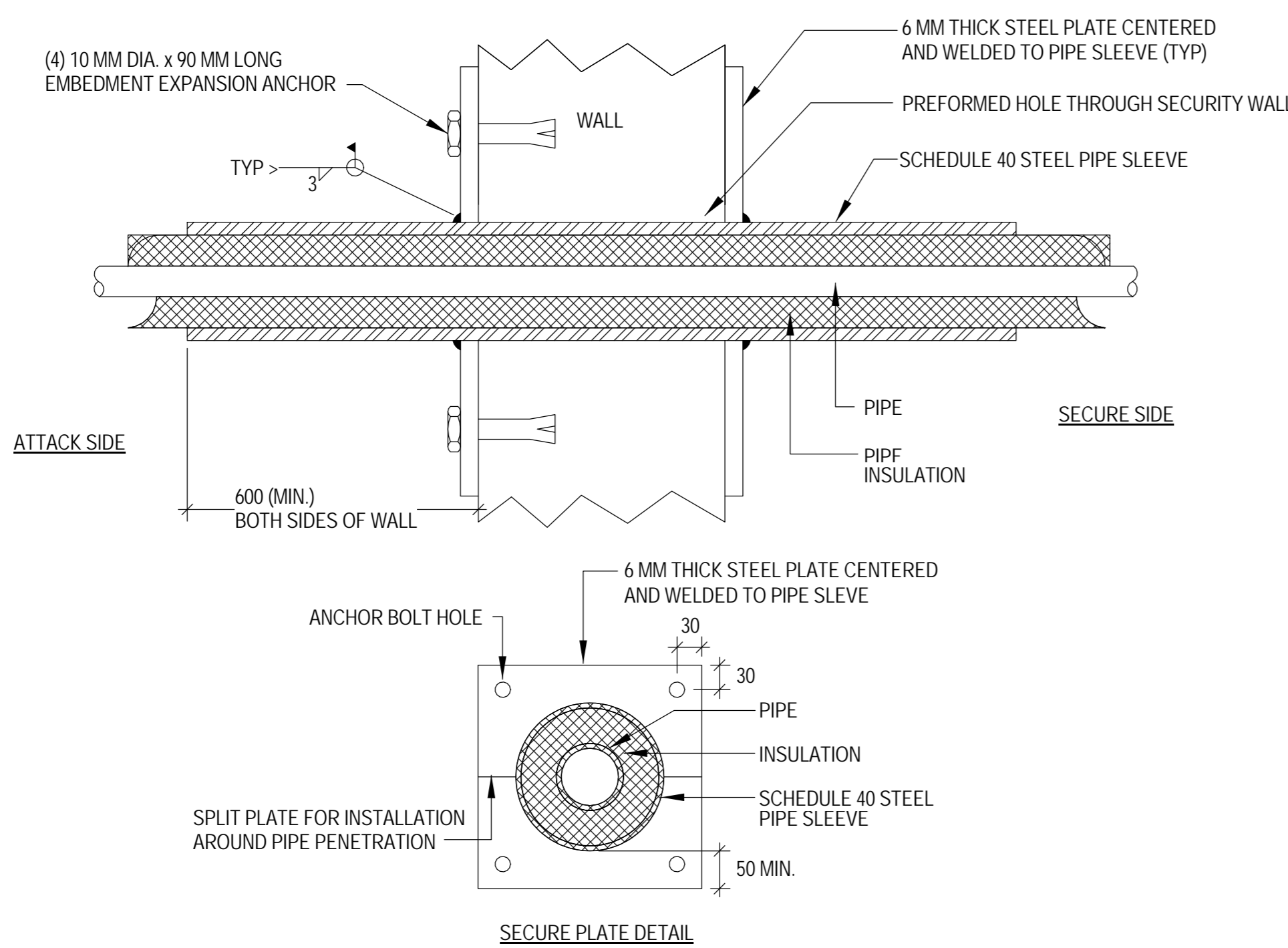
2 15 MINUTE FE GRILLE
M501 SCALE 1:1



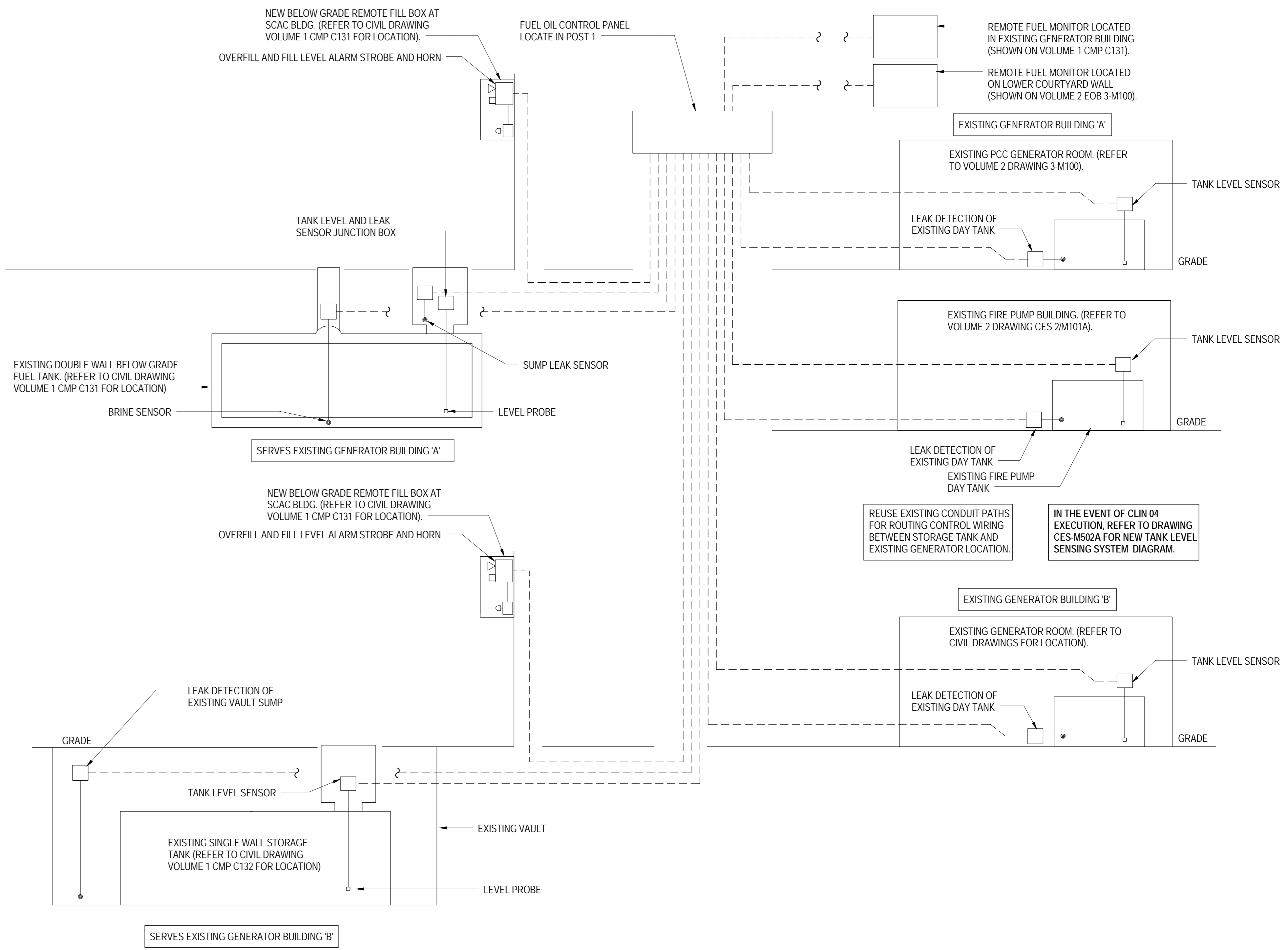
6 LINK SEAL WALL PENETRATION DETAIL
SCALE: NTS



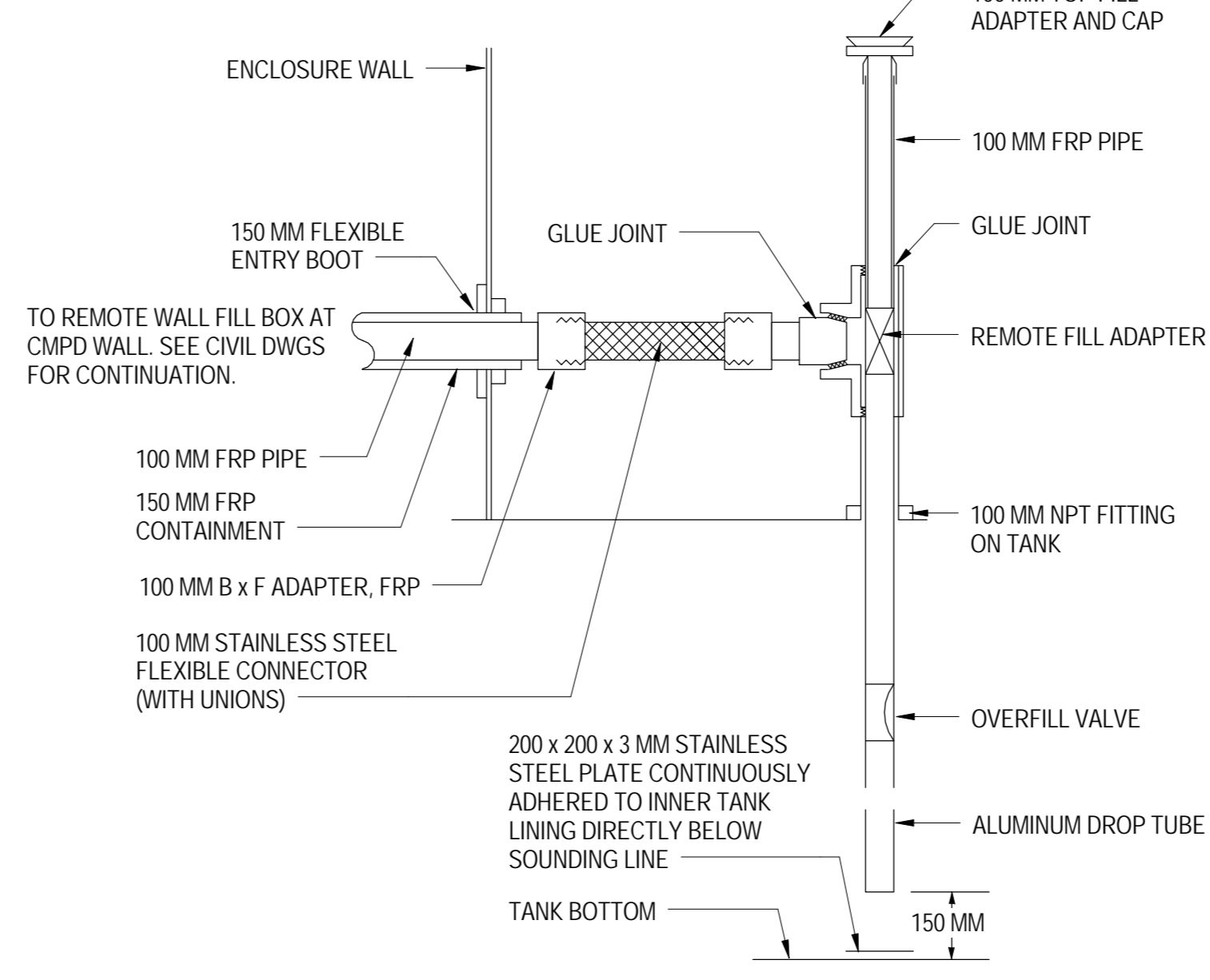
5 CONDENSING UNIT WITH THRU WALL PENETRATION MOUNTING DETAIL
SCALE: NTS



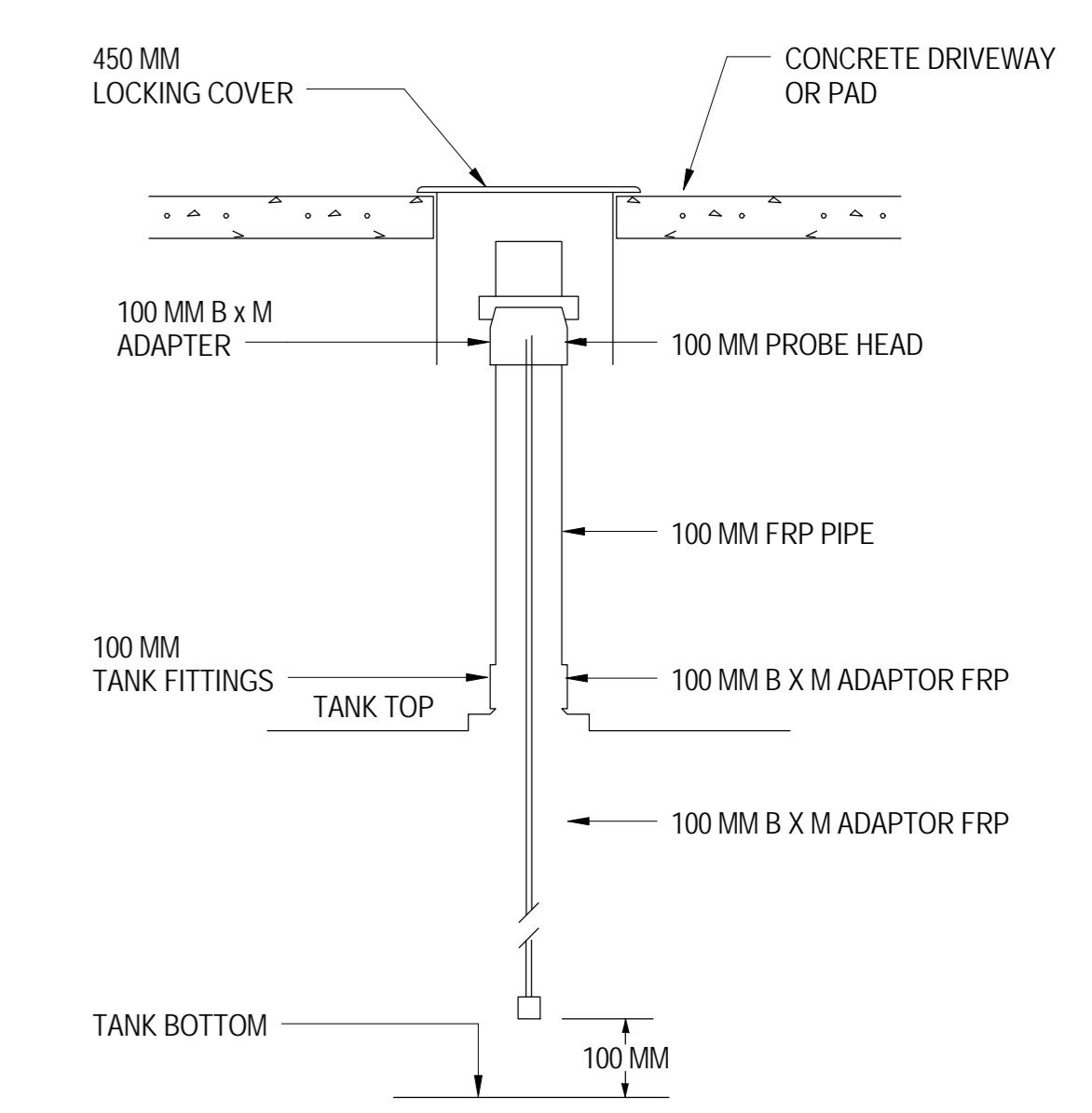
4 FE/BR SINGLE PIPE WALL PENETRATION DETAIL
SCALE: 1:1



2 TANK LEVEL AND SENSING SYSTEM DIAGRAM
SCALE: NTS



3 REMOTE TANK FILL AND SOUNDING
SCALE: NTS



NOTE:
1. EXTEND WIRING IN CONDUIT FROM PROBE HEAD TO ELECTRONIC CONTROL PANEL.

1 TANK LEVEL SENSOR
SCALE: NTS

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BC CONTROLLER SCHEDULE									
TAG	UNIT LOCATION	NUMBER OF CONNECTIONS	ELECTRICAL			POWER (Kw)	AMPS (A)	BASIS OF DESIGN	REMARKS
			VOLTS	PHASE	HERTZ				
SCAC-BC-1	SCREENING S102	6	230	1	50	0.133	0.52	mitsubishi CMB-P106V-G1	

NOTES:
1. PROVIDE 'P' TRAP FOR BC CONTROLLER DRAIN PAN AND SAURERMANN CONDENSATE PUMP 9.46 LPH @ 44.85 KPa, SAME SIZE AS DRAIN PAN CONNECTOR.

GRILLE REGISTER AND DIFFUSER SCHEDULE									
TAG	TYPE	SIZE (mm)	NECK SIZE (mm)	BLOW PATTERN	FRAME	DAMPER	MAX NC	BASIS OF DESIGN	REMARKS
SCAC-RG-1	RETURN GRILLE	300x300	300x300	45° DEFLECTION	SURFACE	NONE	<20	PRICE 710	(1)
SCAC-EG-1	EXHAUST GRILLE	300x300	300x300	45° DEFLECTION	SURFACE	NONE	<20	PRICE 535	(1)
SCAC-TG-1	TRANSFER GRILLE	300x300	300x300	45° DEFLECTION	SURFACE	NONE	<20	PRICE 535	(1)
SCAC-CD-1	SUPPLY DIFFUSER (ADJUSTABLE)	600x600	350	4-WAY	SURFACE	NONE	<20	PRICE SCDA	(2)

NOTES:
1. STEEL, FIXED LOUVERS, 19mm BLADE SPACING, 32mm BORDER, COUNTER SUNK SCREW HOLES, WHITE FINISH
2. FINISH - WHITE POWDER COAT, 4 CONE

ACCU SCHEDULE													
TAG	LOCATION	REFRIGERANT TYPE	NOISE (dB(A))	COOLING (Kw)	HEATING (Kw)	AMBIENT AIR TEMPERATURE (C)	ELECTRICAL				UNIT WEIGHT (Kg)	BASIS OF DESIGN OUTDOOR UNIT	REMARKS
							VOLTS	PHASE	HERTZ	RLA (A)			
SCAC-ACCU-1	GRADE	R-410A	60	28	31.5	35	400	3	50	11.0	270	mitsubishi PURY-EP250YJM-A	(1)(2)(3)

NOTES:
1. SIMULTANEOUS HEATING AND COOLING DOWN TO -5C. FULL HEATING DOWN TO -20C.
2. PROVIDE SINGLE POINT POWER CONNECTION AND DISCONNECT AT OUTDOOR UNIT.
3. PROVIDE STRUCTURAL SUPPORT TO RAISE UNIT 200mm ABOVE GRADE, WITH NEOPRENE PADS.

FAN SCHEDULE													
TAG	SERVES	TYPE	DRIVE	FLOW (L/S)	RPM	STATIC PRESSURE (Pa)	ELECTRICAL				SOUND DATA dBA	DESIGN BASIS	REMARKS
							HP WATTS	VOLTS	PHASE	HERTZ			
SCAC-EF-1	ELEC / HYDRAULIC RM	CENTRIFUGAL INLINE	DIRECT	142	1163	100	73	230	1	50	36	COOK GN-642	(1)(2)(3)(4)
SCAC-EF-2	TOILET & JAN RMS	CENTRIFUGAL INLINE	DIRECT	144	1169	100	74	230	1	50	37	COOK GN-642	(1)(2)(3)(4)
SCAC-SF-1	GUARD BOOTH / SCREENING RMS	CENTRIFUGAL INLINE	DIRECT	109	1080	100	55	230	1	50	35	COOK GN-622	(1)(2)(3)(4)
SCAC-SF-2	GUARD BOOTH / SCREENING RMS	CENTRIFUGAL INLINE	DIRECT	109	1080	100	55	230	1	50	35	COOK GN-622	(1)(2)(3)(4)

NOTES:
1. PROVIDE HANGING VIBRATION ISOLATORS, DISCONNECT SWITCH
2. VARIABLE SPEED CONTROLLER
3. PROVIDE BACK DRAFT DAMPER ON DISCHARGE SIDE OF FAN.
4. FAN SIZES BASED ON ELEVATION OF 231 M.

MINI SPLIT AIR CONDITIONER SCHEDULE												
TAG	LOCATION	TYPE	SUPPLY AIR (L/s)	OUTSIDE AIR (L/s)	AMBIENT AIR TEMPERATURE (C)	ELECTRICAL			COOLING CAPACITY (kW)	HEATING CAPACITY (kW)	BASIS OF DESIGN INDOOR UNIT	REMARKS
						VOLTS	PHASE	HERTZ				
SCAC-MS-1	GUARD BOOTH S101	CEILING CONCEALED	225/266/316	55	35	230	1	50	7.1	8.0	mitsubishi PEFY-P63VMA-E	(1)(2)(3)(4)(5)
SCAC-MS-2	SCREENING S102	CASSETTE	233/249/266/299	55	35	230	1	50	7.1	8.0	mitsubishi PLFY-P63VBM-E	(1)(2)(3)
SCAC-MS-3	SCREENING S102	CASSETTE	199/216/233/266	55	35	230	1	50	5.6	6.3	mitsubishi PLFY-P50VBM-E	(1)(2)(3)
SCAC-MS-4	SCREENING S102	CASSETTE	199/216/233/266	55	35	230	1	50	5.6	6.3	mitsubishi PLFY-P50VBM-E	(1)(2)(3)
SCAC-MS-5	H20 ENTRY S108	WALL MOUNT	82/83/87/88	-	35	230	1	50	1.7	1.9	mitsubishi PKFY-P15VBM-E	(1)(2)(3)
SCAC-MS-6	ELEC S109	WALL MOUNT	82/83/87/88	-	35	230	1	50	1.7	1.9	mitsubishi PKFY-P15VBM-E	(1)(2)(3)

NOTES:
1. PROVIDE PROGRAMMABLE HARD WIRED REMOTE TEMPERATURE CONTROLLER.
2. UNITS CONNECTED TO SINGLE CONDENSING UNIT (SCAP-ACCU-1).
3. PROVIDE INTEGRAL CONDENSATE PUMP.
4. EXTERNAL STATIC PRESSURE EQUALS 150Pa
5. PROVIDE CLEANABLE FILTER.