

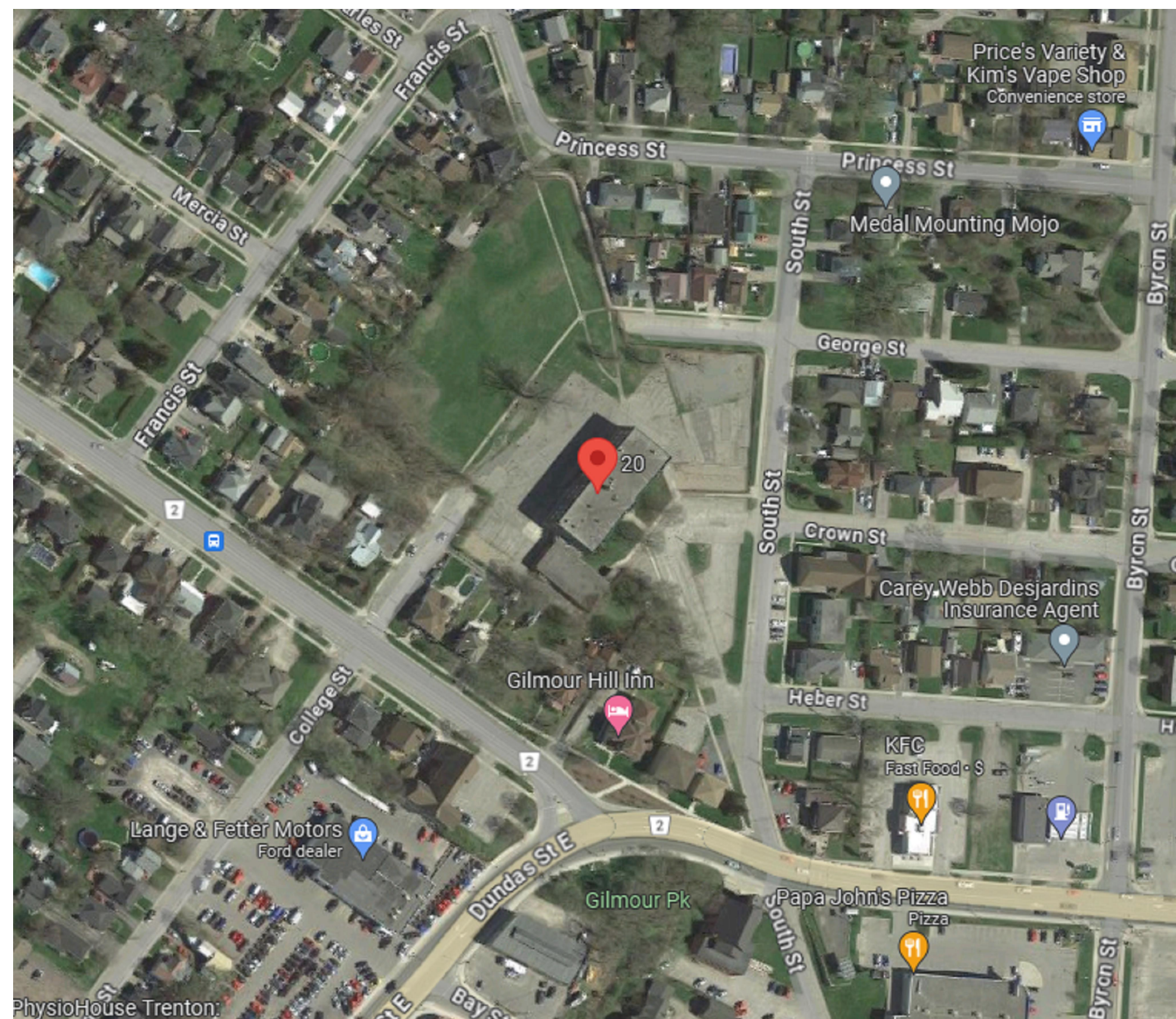
32 UNIT AFFORDABLE HOUSING APARTMENT BUILDING

20 SOUTH STREET, TRENTON, ONTARIO, K8V 1P8



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MECHANICAL DRAWING LIST		
PG	DWG #	TITLE/ DESCRIPTION
1	M.000	COVER
2	M.001	NOTES, LEGEND, SITE & DRAWING LIST
3	M.003	SCHEDULES
4	M.100A	NORTH BELOW SLAB PLUMBING & DRAINAGE PLAN
5	M.100B	SOUTH BELOW SLAB PLUMBING & DRAINAGE PLAN
6	M.101A	NORTH GROUND FLOOR PLUMBING & DRAINAGE PLAN
7	M.101B	SOUTH GROUND FLOOR PLUMBING & DRAINAGE PLAN
8	M.102A	NORTH SECOND FLOOR PLUMBING & DRAINAGE PLAN
9	M.102B	SOUTH SECOND FLOOR PLUMBING & DRAINAGE PLAN
10	M.103A	NORTH THIRD FLOOR PLUMBING & DRAINAGE PLAN
11	M.103B	SOUTH THIRD FLOOR PLUMBING & DRAINAGE PLAN
12	M.201A	NORTH GROUND FLOOR HVAC PLAN
13	M.201B	SOUTH GROUND FLOOR HVAC PLAN
14	M.202A	NORTH SECOND FLOOR HVAC PLAN
15	M.202B	SOUTH SECOND FLOOR HVAC PLAN
16	M.203A	NORTH THIRD FLOOR HVAC PLAN
17	M.203B	SOUTH THIRD FLOOR HVAC PLAN
18	M.300	ROOF
19	M.400	RISER DIAGRAMS
20	M.450	SCHEMATIC DIAGRAM
21	M.451	INSTALLATION DETAIL FOR A MODULATING CLOTHES DRYER EXHAUST SYSTEM
22	M.452	GAS RISER SCHEMATIC
23	M.500	DETAIL SHEET 1
24	M.501	DETAIL SHEET 2
25	M.502	DETAIL SHEET 3
26	M.503	DETAIL SHEET 4

ISSUED FOR TENDER
JULY 31, 2024

GCS Project # 23006

M.000

GENERAL NOTES

- ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTS, INTERIOR DESIGNER, AND MECHANICAL DRAWINGS FOR LOCATION OF ALL LUMINAIRES, SWITCHES, DEVICES, OUTLETS, FURNITURE FEEDING POINTS, DIMENSIONS, MOUNTING HEIGHTS, AND CONSTRUCTION DETAILS.
- IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR ON DRAWING THAT EQUIPMENT AND MATERIALS BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
- ALL SLAB OPENINGS WILL BE X-RAYED AND REVIEWED WITH LANDLORD AND BASE BUILDING STRUCTURAL CONSULTANT. CONTRACTOR SHALL X-RAY THE FLOOR AND SUBMIT TO BASE BUILDING STRUCTURAL ENGINEER FOR WRITTEN APPROVAL AT LEAST 72 HOURS PRIOR TO ANY CORE DRILLING ON THE BUILDING. THE CONTRACTOR SHALL INCLUDE THE COST OF STRUCTURAL ENGINEER. COORDINATE ALL CORE DRILLING WITH LANDLORD'S SITE REPRESENTATIVE AND TENANT. ALL NOISY WORK SHALL BE PERFORMED AFTER HOURS.
- ALL OPENINGS IN BUILDING RISER, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL AND SHALL BE INSTALLED AS PER BUILDING AND FIRE CODE.
- COORDINATE WITH THE CLIENT TO CONFIRM EQUIPMENT OR SYSTEMS/DEVICES TO REMAIN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT.
- ALL INSTALLATIONS WITHIN EXISTING AREAS SHALL BE COORDINATED WITH OWNER AND BASE BUILDING MANAGEMENT. INSTALLATION MUST BE PERFORMED IN A MANNER TO ELIMINATE ANY INTERFERENCES TO STAFF AND NORMAL OPERATION OF THE FACILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND DISTRIBUTION OF TEMPORARY POWER WITHIN THE PREMISES DURING THE CONSTRUCTION PERIOD. EXPOSED ELECTRICAL CORDS OUTSIDE THE LEASED PREMISES SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNERS. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
- DUCT DIMENSIONS AND FLOWS ON DRAWINGS ARE EXPRESSED IN S.I. UNITS.
- PIPING AND PLUMBING DIMENSIONS ON DRAWINGS ARE EXPRESSED IN I.P. UNITS.

DEMOLITION NOTES

- CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES BEFORE COMMENCING WORK. USE ONLY THE LATEST APPROVED DRAWING FOR CONSTRUCTION; PRINTS ARE NOT TO BE SCALED.
- ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL PLANS.
- ALL WORKS SHOWN ON DRAWINGS ARE NEW AND TO BE CARRIED OUT BY THE MECHANICAL CONTRACTOR (PLUMBING INCLUDED), UNLESS OTHERWISE NOTED.
- MECHANICAL CONTRACTOR WILL DO ALL CUTTING AND PATCHING WHERE REQUIRED FOR H.V.A.C. AND PLUMBING SYSTEMS.
- MECHANICAL CONTRACTOR SHALL VISIT SITE DURING THE TENDER PERIOD TO VERIFY EXISTING CONDITIONS NOT LIMITED TO THAT WHICH IS SHOWN ON THE PLANS OR WRITTEN TO THE SPECIFICATIONS AND INCLUDE FOR TO MAKE GOOD ALL REQUIREMENTS AS PER THE INTENT OF THESE CONTRACT DOCUMENTS FOR A FULLY OPERATIONAL TURNKEY INSTALLATION. IF ACCESS IS NOT PROVIDED FOR WHATEVER REASON, IT IS TO BE STATED IN THE TENDER QUOTATION IN CLEAR PRINT ACCORDINGLY.
- MECHANICAL CONTRACTOR TO MAKE ALL NECESSARY TEMPORARY PROVISIONS TO MAINTAIN H.V.A.C., PLUMBING AND DRAINAGE SYSTEMS FOR OCCUPIED AREAS DURING DEMOLITION AND CONSTRUCTION. ALL OF WHICH TO BE INCLUDED IN HIS CONTRACT. ALL ASSOCIATED NON MECHANICAL WORK, SUCH AS ELECTRICAL, TO BE CARRIED OUT BY THE GENERAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO COMMISSION A BUILDING AUTOMATION SYSTEM TECHNICIAN TO ENSURE THAT SYSTEMS ARE NOT INTERRUPTED AS A RESULT OF THE CONSTRUCTION. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMEDIAL WORK TO THE AUTOMATION SYSTEM IN ITS ENTIRETY AS REQUIRED.
- MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL NEW PLUMBING VENTS IN WALL AND CEILING SPACE WHERE EXISTING VENTS ARE REVEALED DURING DEMOLITION OF EXISTING PARTITIONS AND WALLS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO SUPPLY & INSTALL NEW PLUMBING VENTS TO ACCOMMODATE NEW BUILDING DESIGN AND PARTITION LAYOUTS. ALL ASSOCIATED FLOOR CUTTING, IF REQUIRED, SHALL BE BY THE MECHANICAL CONTRACTOR.
- SUPPLY AND INSTALL NEW CLEANOUTS WHERE REQUIRED AS A RESULT OF FLOOR DEMOLITION AND UPGRADE.
- DRAIN EXISTING COLD WATER SYSTEM AFTER-HOURS FOR COLD WATER PIPING REMEDIAL WORK OR EXTENSION.
- MECHANICAL CONTRACTOR SHALL REBALANCE ALL EXISTING SYSTEMS AND UNITS BEING REUSED THAT HAVE BEEN ALTERED IN ANY WAY. REPLACE DRIVE KITS AND MOTORS WHERE REQUIRED. THE MECHANICAL CONTRACTOR WILL CLOSELY COORDINATE WITH THE ROOFING CONTRACTOR TO PREVENT ANY DAMAGE TO ROOF TOP EQUIPMENT.
- ALL CONTROL WIRING AND CONTROLS ARE TO BE REMOVED OR REPLACED BY THE MECHANICAL CONTRACTOR WHERE REQUIRED.
- MECHANICAL CONTRACTOR TO INCLUDE FOR RELOCATION OF ALL STARTERS AND THERMOSTATS NOT SHOWN ON DRAWINGS. VISIT SITE PRIOR TO TENDER CLOSING TO CONFIRM EXTENT OF ALL WORK. COORDINATE WITH THE GENERAL CONTRACTOR AND DIVISION 16, TO ENSURE THAT ALL ASSOCIATED WORKS ARE INCLUDED IN THE CONTRACT.
- COMPLETELY REMOVE AND DISCARD ALL CROSSED H.V.A.C. UNITS, SYSTEMS INCLUDING DUCTWORK, THERMOSTATS AND CONTROL WIRING, UNLESS OTHERWISE NOTED.
- MECHANICAL CONTRACTOR TO CONTACT LOCAL GAS COMPANY TO INFORM THEM OF THE REVISED GAS LOAD REQUIREMENTS AT THE IMMEDIATE START OF THE PROJECT. MECHANICAL CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND COMPLETE FORMS TO SATISFY THE REQUIREMENTS OF THE GAS COMPANY. MECHANICAL CONTRACTOR SHALL COORDINATE REMEDIAL GAS METER WORKS WITHIN THE CONSTRUCTION SCHEDULE AND BE RESPONSIBLE FOR ANY DELAYS.
- MECHANICAL CONTRACTOR TO MAKE ALL NECESSARY PROVISIONS FOR RELOCATED THERMOSTATS.
- SOME ASBESTOS REMOVAL MAY BE REQUIRED. PLUMBER TO VISIT SITE AND VERIFY PRIOR TO STARTING ANY WORK. REPORT ANY REMOVAL REQUIRED TO THE GENERAL CONTRACTOR AND --- ASBESTOS REMOVAL SHALL BE PART OF THIS CONTRACT FOR DEMOLITION OF PIPING AND INSULATION.

PIPING SYMBOL LEGEND

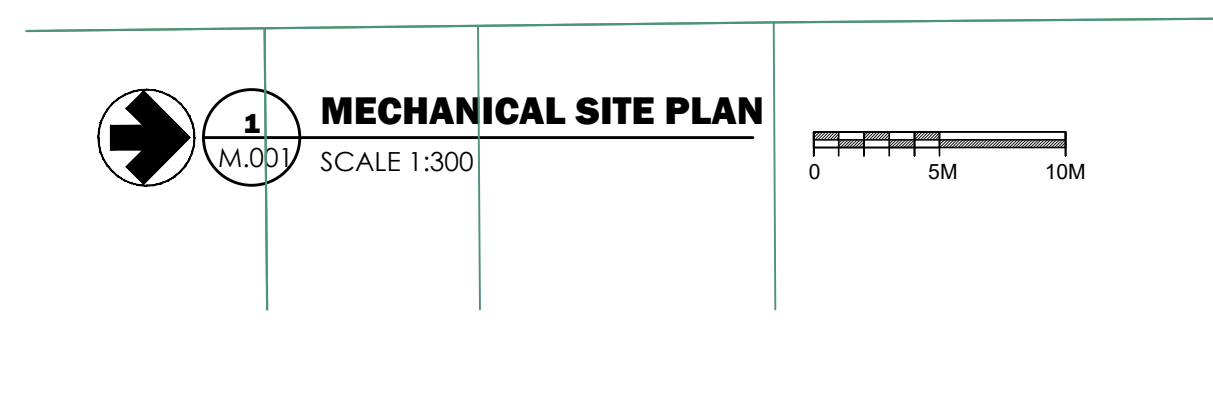
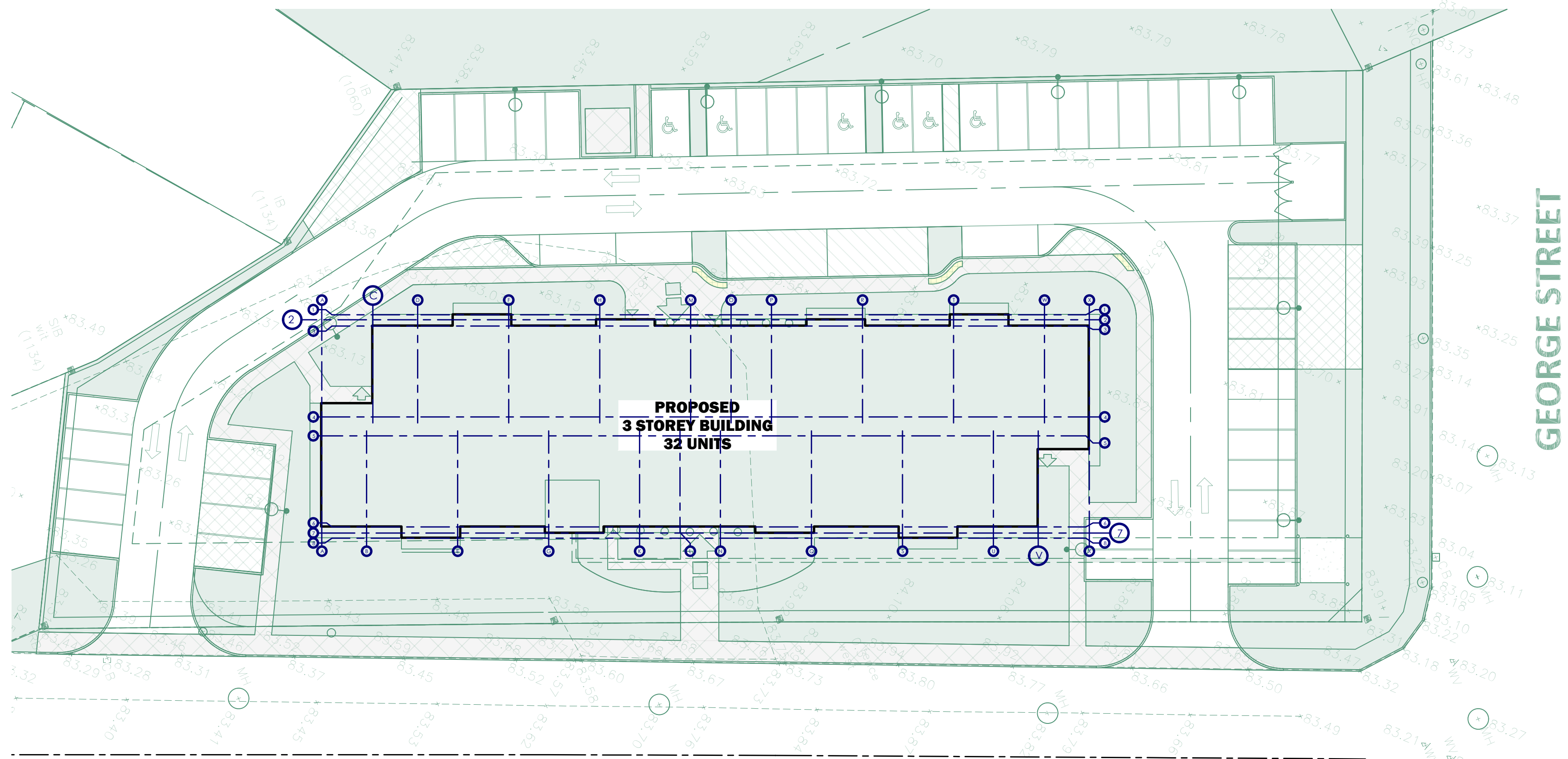
—	DOMESTIC COLD WATER	—	FLOOR CLEAN OUT
---	DOMESTIC HOT WATER	—	WALL CLEAN OUT
---	DOMESTIC HOT WATER RECIRC	—	CAPPED PIPE / CLEAN OUT
— CD	CONDENSATE DRAIN	—	FLEXIBLE CONNECTION (PIPE)
— GL	GLYCOL SUPPLY	—	HOSE BIBB
— GR	GLYCOL RETURN	— RD	ROOF DRAIN
— HWS	HOT WATER SUPPLY	—	SECONDARY ROOF DRAIN
— HWR	HOT WATER RETURN	(E)	EXISTING
— S	STORM, STORM BURIED/BELOW	—	WALL HYDRANT
— SAN	SANITARY, SANITARY BURIED/BELOW	—	UNION
—	PIPING TRACING	—	FLOW SWITCH
—	PIPING TURN DOWN OR DROP	—	PRESSURE SWITCH
—	PIPING TURN UP OR RISE	—	EXPANSION JOINT
—	PIPING TEE DOWN OR DROP	—	AUTOMATIC AIR VENT
—	PIPING TEE UP OR RISE	—	PRESSURE GAUGE WITH GAUGE COCK
—	P-TRAP	—	VALVE ON PIPING RISE OR DROP
—	GATE VALVE	—	TRAP PRIMER
—	BALL VALVE	—	THERMOMETER
—	MIXING VALVE	—	DIRECTION OF FLOW
—	BUTTERFLY VALVE	—	SLOPE & DIRECTION OF FALL
—	GLOBE VALVE	—	REDUCER OR INCREASER
—	PRESSURE REDUCING VALVE	—	DIAMETER
—	BACKFLOW PREVENTER	— FD	FLOOR DRAIN
—	BALANCING VALVE	— FFD	FUNNEL FLOOR DRAIN
—	AUTOMATIC FLOW CONTROL VALVE	—	GAS LINE, GAS PIPING SCHEDULE 40 & TO CODES.
—	TEMP. & PRESSURE RELIEF VALVE	—	DHW COMBUSTION EXHAUST VENTING
—	PRESSURE RELIEF VALVE	—	DHW COMBUSTION AIR MAKEUP
—	MOTORIZED SHUT-OFF VALVE	—	
—	STRAINER	—	

AIR SYSTEM LEGEND

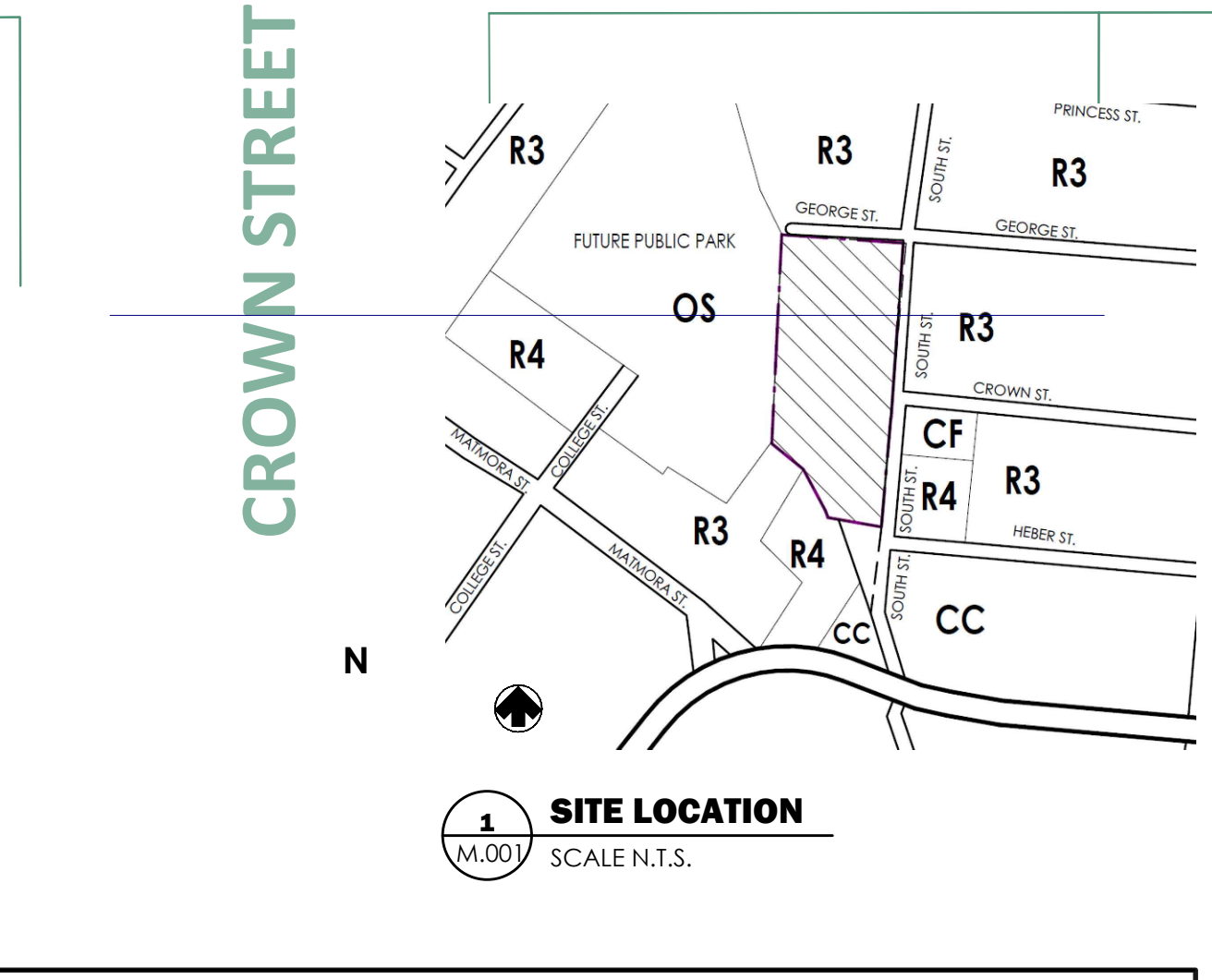
—	RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT UP	—	FLEXIBLE DUCT
—	RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT DOWN	CFM	SPACE PRESSURIZATION ARROW
—	RECTANGULAR RETURN/ RELIEF AIR DUCT UP	DL/ UC	DOOR LOUVER / UNDERCUT DOOR
—	RECTANGULAR RETURN/ RELIEF AIR DUCT DOWN	—	SUPPLY AIRFLOW ARROW
—	RECTANGULAR EXHAUST AIR DUCT UP	—	RETURN OR EXHAUST AIRFLOW ARROW
—	RECTANGULAR EXHAUST AIR DUCT DOWN	—	CEILING DIFFUSER (SUPPLY)
—	ROUND SUPPLY/ OUTSIDE AIR DUCT UP	—	RETURN AIR GRILLE OR REGISTER
—	ROUND SUPPLY/ OUTSIDE AIR DUCT DOWN	—	EXHAUST AIR GRILLE OR REGISTER
—	ROUND RETURN/ RELIEF AIR DUCT UP	—	DIFFUSER TYPE
—	ROUND RETURN/ RELIEF AIR DUCT DOWN	—	NECK SIZE
—	ROUND EXHAUST AIR DUCT UP	—	CFM
—	ROUND EXHAUST AIR DUCT DOWN	—	SIDE WALL GRILLE
—	DUCT WITH LINING OR SOUND INSULATION	—	FIRE DAMPER
—	STAINLESS STEEL DUCT	—	HUMIDITY SENSOR OR HUMIDISTAT AND NUMBER
—	PVC COATED DUCT	—	SENSOR AND NUMBER
—	DOUBLE WALL DUCT	—	SWITCH AND NUMBER
—	BACKDRAFT DAMPER FOR ROUND AND RECTANGULAR DUCT	—	TEMPERATURE SENSOR OR THERMOSTAT & ZONE NUMBER
—	FIRE DAMPER FOR ROUND AND RECTANGULAR DUCT	—	DIFFERENTIAL PRESSURE SENSOR
—	SMOKE DAMPER FOR ROUND AND RECTANGULAR DUCT	—	STATIC PRESSURE SENSOR
—	COMBINATION SMOKE/FIRE DAMPER FOR ROUND & RECTANGULAR DUCT	—	OXYGEN SENSOR
—	MANUAL VOLUME DAMPER FOR ROUND AND RECTANGULAR DUCT	—	CO
—	FLEXIBLE CONNECTION	—	CO2
—		—	##" X ##"

MECHANICAL LINEWORK LEGEND

—	DENOTES NEW (BOLD)	—	DENOTES TO BE RELOCATED
—	EXISTING TO REMAIN	—	DENOTES EXISTING TO BE REMOVED



- GENERAL NOTES**
- ALL EQUIPMENT AND MATERIALS LOCATED IN ANY CONCEALED SPACE USED AS A RETURN AIR PLENUM SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE SECTION 3.6.4.3
 - THE POTABLE WATER SYSTEM SHALL BE PROTECTED AGAINST BACK SIPHONAGE FROM ANY MACHINERY OR EQUIPMENT BY A CERTIFIED CAN/CSA B64.10 BACKFLOW PREVENTER AS PER THE ONTARIO BUILDING CODE SUBSECTION 7.6.2.
 - ALL DOMESTIC WATER MANIFOLDS AND ALL IN SLAB DOMESTIC WATER PIPING TO BE SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ALL IN SLAB PIPING AND RELATED MATERIALS TO BE INSTALLED IN COMPLIANCE WITH THE ONTARIO BUILDING CODE.
 - FOR PIPE OFF-SETS (E.G.: WASHROOMS LOCATED ABOVE SENSITIVE AREAS, ETC.) PROVIDE 25MM (1") THICK FIBERGLASS, COVERED WITH 2MM 'ACUSEAL' TO SANITARY OR STORM ELBOWS FROM DRAINS OR PIPES ABOVE AND THE FIRST 1.5M (5'-0") OF HORIZONTAL RUN AFTER THE ELBOW.
 - ALL DRAINS INDICATED ON THE MECHANICAL DRAWINGS OR OTHERWISE SHALL INCLUDE ALL NECESSARY FITTINGS, AND PIPING SUFFICIENT FOR CONNECTION TO THE NEAREST SANITARY TRUNK OR STACK.
 - SUPPLY AND EXHAUST FANS**
INTAKE AND EXHAUST DUCTS CONNECTING TO THE EXTERIOR SHALL COMPLY WITH CBC SB-10 AND ASHRAE 90.1. CAPACITIES UP TO 141L/S (300CFM) C/W BACK DRAFT DAMPER CAPACITIES EXCEEDING 141L/S (300CFM) C/W MOTORIZED DAMPER COORDINATE WITH SECTION 15900 (AND DIV. 16) FOR INTERLOCK WITH RELATED FAN(S).
 - SUITES SIDEWALL SUPPLY AIR DIFFUSERS**
ALL SIDEWALL SUPPLY AIR DIFFUSERS MUST BE INSTALLED AS HIGH AS POSSIBLE. TOP SIDE OF SIDEWALL DIFFUSERS MUST BE MAXIMUM 150MM BELOW FINISHED CEILING OR BULKHEADS.
 - MUA RISERS**
MUA RISERS TO BE INSTALL SO AS TO PREVENT THE DUCT AND DUCT SUPPORTS FROM MAKING CONTACT WITH SUITE WALL ASSEMBLIES.
 - DAMPERS**
PROVIDE BALANCING DAMPERS AT BRANCH DUCTS. PROVIDE FIRE DAMPER(S) ON ALL DUCTWORK THAT PENETRATE THROUGH FIRE RATED WALL PARTITIONS.



TAGS AND CALL OUT SYMBOLS

EQUIP #	EQUIPMENT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	#	REVISION CALLOUT
EQUIP #	EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	1 1	KEYNOTE CALLOUT
T P.3.1	SECTION CALLOUT SECTION DESIGNATION SHEET NUMBER	●	POINT OF CONNECTION
A P.3.1	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER	⊗	POINT OF DEMARCATION
XX XX	DIFFUSER TYPE NECK SIZE CFM	E	FURNISHED & INSTALLED BY ELECTRICAL
		M	FURNISHED & INSTALLED BY MECHANICAL
		P	FURNISHED AND INSTALLED BY PLUMBING
		S E	HEAT TRACE CIRCUIT START AND END HEAT TRACE CIRCUIT NUMBER
		VAV-1 300 CFM	VAV ID CFM VAV INLET SIZE

SITE STATISTICS

INFORMATION			
ADDRESS:	20 SOUTH ST, QUINTE WEST, ONTARIO, K8V 1P8		
LEGAL DESIGNATION:	R4-10 (FORMERLY CF)		
ZONING DESIGNATION:	32-UNIT AFFORDABLE HOUSING BUILDING, 3-STOREY NEW BUILDING		
PROPOSED BUILDING:	PERMITTED/ REQUIRED	PROPOSED	
SETBACK			
MIN. FRONT YARD	7.5 M	-	
MIN. EXTERIOR SIDE YARD	7.5 M	-	
MIN. INTERIOR SIDE YARD	7.5 M	-	
MIN. REAR YARD	7.5 M	-	
HEIGHT	15 M	-	
MINIMUM LOT AREA	160 SM PER UNIT= 5120 SM	5168.9 SM	
MINIMUM LOT FRONTAGE	25 M	117.6 M	
MINIMUM LANDSCAPE OPEN SPACE	25%	-	
GROUND FLOOR	1200 SM		
SECOND FLOOR	1200 SM		
THIRD FLOOR	1200 SM		
TOTAL	3600 SM		
PARKING CALCULATION	1.25 SPACES PER UNIT, PLUS .25 SPACES PER UNIT DEDICATED FOR VISITOR PARKING IN A BUILDING CONTAINING 4 OR MORE DWELLING UNITS		
PARKING REQUIRED	32 UNITS X 1.25= 40 PARKING REQUIRED (5.3M X 2.9M) INCLUDING 32 UNITS X 0.25= 8 PARKING WILL BE DEDICATED FOR VISITOR PARKING 2 BARRIER-FREE SPACE REQUIRED		
PARKING PROVIDED	40 PARKING PROVIDED (5.3M X 2.9M) INCLUDING 48 PARKING SPACES 6 BARRIER-FREE SPACES PROVIDED		
LOADING AREA REQUIRED	2 LOADING AREA REQUIRED (9M X 3.5M)		

<p>This drawing is the property of the Galang Consulting Services, and must be returned upon completion of the work. All information shown on this drawing is for use on this specific project. Contractor must verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.</p>	<p>6 REISSUED FOR BUILDING PERMIT MAR 14/24</p> <p>5 ISSUED FOR PERMIT FEB. 20/24</p> <p>4 ISSUED FOR CLASS B COSTING JAN. 19/24</p> <p>3 ISSUED FOR COORDINATION JAN. 12/24</p> <p>2 ISSUED FOR COORDINATION NOV. 8/23</p>	<p>11 ISSUED FOR TENDER JUL 31/24</p> <p>10 ISSUED FOR TENDER JUL 12/24</p> <p>9 ISSUED FOR TENDER JUN 28/24</p> <p>8 REISSUED FOR BUILDING PERMIT JUN 24/24</p> <p>7 ISSUED FOR TENDER APR 08/24</p>	<p>SEAL</p> <p>NORTH</p> <p>CLIENT</p>	<p>PROJECT TITLE</p> <p>32 UNIT AFFORDABLE HOUSING APT BLDG</p> <p>20 SOUTH STREET, TRENTON ONTARIO, CANADA</p>	<p>DRAWING SHEET TITLE</p> <p>NOTES, LEGENDS & SITE PLAN</p>	<p>REVIEWED BY</p> <p>jbb</p> <p>DRAWN BY</p> <p>GG</p> <p>DRAWING NUMBER</p> <p>M.001</p>
	<p># ISSUES DATE</p>	<p># REVISIONS DATE</p>	<p>PROJECT NUMBER</p> <p>23006</p> <p>SCALE</p> <p>AS NOTED</p> <p>DATE</p> <p>APRIL 2023</p>	<p>GALANG CONSULTING SERVICES</p> <p>2275 Lake Shore Blvd. W, Suite 315 Toronto, ON M8V 3Y3 Canada</p> <p>t: 416-521-9700 c: 647-909-9899</p>	<p>PROVIDED BALANCING DAMPERS AT BRANCH DUCTS. PROVIDE FIRE DAMPER(S) ON ALL DUCTWORK THAT PENETRATE THROUGH FIRE RATED WALL PARTITIONS.</p>	<p>PROVIDE BALANCING DAMPERS AT BRANCH DUCTS. PROVIDE FIRE DAMPER(S) ON ALL DUCTWORK THAT PENETRATE THROUGH FIRE RATED WALL PARTITIONS.</p>

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	FLOW (GPM)	HEAD (PSI)	RPM	MANUFACTURE R	MODEL	TYPE / SIZE	DIMENSIONS (mm)			WEIGHT (Kg.)	ENERGY REQUIRED (kW)	MOTOR SIZE (HP)	FLA	POWER SUPPLY					STARTER			CONTROLS			OTHER REQUIREMENTS			REMARKS:
									LENGTH	WIDTH	HEIGHT					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOC K BY:	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT.	
FIRE PUMPS																														
FP-101A	DUTY FIRE PUMP	MECH. ROOM	750	42.7	3600	S.A. ARMSTRONG	6x4LA-F	VIL	660	504	871	257		20	-	208	3	REFER SLD	YES	-	DIV. 21	DIV. 21	PKG	-	YES	DIV. 21	YES	-	-	PACKAGE UNIT ULC AND FM LABELED C/W CONTROLLER REDUCED VOLTAGE STARTER TRANSFER SWITCH. AUTO TRANSFER SWITCH AND TORNATECH-GPA-GPU-600/150/3/60 CONTROLLER. RATED HEAD = 40 PSI. DISCHARGE HEAD = 112 PSI.
FP-101B	STANDBY FIRE PUMP	MECH. ROOM	750	42.7	3600	S.A. ARMSTRONG	6x4LA-F	VIL	660	504	871	257		20	-	208	3	REFER SLD	YES	-	DIV. 21	DIV. 21	PKG	-	YES	DIV. 21	YES	-	-	PACKAGE UNIT ULC AND FM LABELED C/W CONTROLLER REDUCED VOLTAGE STARTER TRANSFER SWITCH. AUTO TRANSFER SWITCH AND TORNATECH-GPA-GPU-600/150/3/60 CONTROLLER. RATED HEAD = 40 PSI. DISCHARGE HEAD = 112 PSI.
FP-102	JOCKEY PUMP	MECH. ROOM	7.5	15	3600	S.A. ARMSTRONG	SERIES 4700	VMS-03-14B	210	251	748	48		3	-	575	3	REFER SLD	YES	-	DIV. 21	DIV. 21	PKG	-	YES	DIV. 21	YES	-	-	PACKAGE UNIT ULC AND FM LISTED C/W TORNATECH-JPS-600/3/360 CONTROLLER. PUMP TO BE RATED FOR 350 PSI

MAKE UP AIR UNIT SCHEDULE

Tag #	Room Name	Qty	Manufacturer	Indoor Unit Model Number	Evaporator Fan				Sound dB(A)	Dimensions (WxDxH) in	Weight (lb)	Rated Performance			Refrigerant	Electrical	MOC (A)
					CFM	MBH	kW	Voltage				MRE	EER	MRC			
MUA-1		1	Johnson Controls	JROA-120	2500	131	60	575V/3P	74	148 x 64 x 66	2168	5.5 lb/kWH	13.9	47.29 lb/h	R-410A	63.9	70
MUA-2		1	Johnson Controls	JROA-120	2500	131	60	575V/3P	74	148 x 64 x 66	2168	5.5 lb/kWH	13.9	47.29 lb/h	R-410A	63.9	70

Notes for Ventum+ ERV

- 24" ROOF CURB
- Factory wired non-fused disconnect switch with internal circuit breaker isolation
- Units shall include factory mounted BACnet IP controls with BTL Certification
- Filter monitoring with remote alarm via differential pressure measurement across the filter
- Airflow measuring on supply fans via differential pressure measurement
- Certifications: UL, CSA
- Factory mounted DX coils with stainless steel drain pan, utilized for supply air temperature control
- Ship loose temperature sensor for discharge air temperature control
- Factory mounted and brazed Daikin's Electronic Expansion Valves (EEV) and factory wired Daikin controller(s)
- Unit and Daikin controller(s) to be single-point power. Factory to provided Modbus wiring.
- Electric heater will require a separate power connection

EXHAUST FAN SCHEDULE

TAG	LOCATION	SERVING	QTY	MFR	Model #	Flow (CFM)	SP (Inch WC)	RPM	Power (HP)	Electrical	Speed Control	Comments
EF-1	RM 112	ELEC ROOM	1	TWIN QTY	T500L	1/4"		890	232W	115V/1PH/60HZ	YES (S7W)	C/WV104 VIBRATION HANGERS. 69W/ON/OFF SWITCH
EF-2	RM 111	MECH ROOM	1	TWIN QTY	T500L	1/4"		890	232W	115V/1PH/60HZ	YES (S7W)	C/WV104 VIBRATION HANGERS. 69W/ON/OFF SWITCH
EF-3	RM 116	SCOOTER ROOM	1	TWIN QTY	T500L	1/2"		810	306W	115V/1PH/60HZ	YES (S7W)	C/WV104 VIBRATION HANGERS. 69W/ON/OFF SWITCH
EF-4	RM 118	GARBAGE ROOM	1	TWIN QTY	T500L	1/4"		890	232W	115V/1PH/60HZ	YES (S7W)	C/WV104 VIBRATION HANGERS. 69W/ON/OFF SWITCH
EF-5	RM 60	WASH ROOMS	1	TWIN QTY	T300L	1/2"		1145	212W	115V/1PH/60HZ	YES (S7W)	C/WV104 VIBRATION HANGERS. 69W/ON/OFF SWITCH
EF-6	RM 112	STORAGE	1	TWIN QTY	T250L	1/4"		1005	168W	115V/1PH/60HZ	YES (S7W)	C/WV104 VIBRATION HANGERS. 69W/ON/OFF SWITCH
EF-7	RM 215 & RM 315	ELEC ROOM	2	TWIN QTY	T400L	1/4"		775	146W	115V/1PH/60HZ	YES (S7W)	C/WV104 VIBRATION HANGERS. 69W/ON/OFF SWITCH
EF-8	ROOF	DRYER EXHAUST 2ND FLOOR	1	ENERVEX	BEX300	750		2000	1			
EF-9	ROOF	DRYER EXHAUST 3RD FLOOR	1	ENERVEX	BEX300	750		2000	1			

NOTES:

- All Fans shall be complete with Vibration isolators.
- c/w Flexible Connections.
- c/w Speed Control and tied into BAS

SPLIT UNIT SCHEDULE

Tag #	Room Name	Qty	Manufacturer	Indoor Unit Model Number	Evaporator Fan				Sound Pressure Level High to Low dB(A)	Dimensions (WxDxH) mm	Weight (lb)	Rated Performance				Tag #	Outdoor Unit Model Number	Refrigerant	Voltage	MCA (A)	MOCP (A)	Dimensions (WxDxH) mm	Weight (lb)	Remarks
					CFM	BTU/h	BTU/h	Voltage				SEER2	EER2	HSPF2										
AC-1	VARIOUS	REFER TO DRGS	Johnson Controls	RPK-1.5	364-312-253	12,000	12,000	208-230/1	42-32-26	934 x 270 x 210	19.8	21.5	13.1	9	CU-1	RAS-1.5	R-410A	208-230/1	12	20	810 x 580 x 280	79.4		
AC-2	ELEVATOR SHAFT	REFER TO DRGS	Johnson Controls	RPK-1.5	364-312-253	12,000	12,000	208-230/1	42-32-26	934 x 270 x 210	19.8	21.5	13.1	9	CU-1	RAS-1.5	R-410A	208-230/1	12	20	810 x 580 x 280	79.4		

NOTES:

- Wall Mount Indoor Units will be loose supplied condensate pumps, field installed by contractor.
- Each Indoor Unit is to be powered from respective Outdoor Unit.
- Outdoor Unit will be placed on 18" high stand.
- Contact Badri Patel at badri.patel@jcl.com/416-892-3032 for pricing.
- Each Indoor Unit will be supplied with its own Wired Controller.
- Unit will be with wind baffle.
- Units will be provided with BAS connectivity.

23006-Hastings Affordable Housing - Air Source Heat Pump Schedule

TAG	Model	Capacity	Airflow (CFM)	External Static Pressure (inH ₂ O)	dB(A) @ rated Capacity	Cooling		Heating				Electrical				MCA (A)	Max Fuse
						EAT	Total	EAT	LAT	Total	Voltage	Compres	Fan	Total			
															EDB (°F)		
HP-1	Pentair V12	FULL	250	1.0	43	80.0	67.0	8734	17.0	15.0	60.0	70.0	5606	120v	6.6		39.0

Notes:-

- each HP comes c/w 2 fans and motors each rated at 136W 120v 1ph 60Hz 12.3A circuit with a 15A breaker.
- Each unit comes c/w a Hermetic Rotary Compressor 725w, 6.6A RLA, 39A LRA.
- Unit to be complete with Merv+ & MERV 15 Filters. Units to be supplied with 2 spare sets of filters . 1 to be installed at handover and 1 Handed over to client for future use at completion of the project.
- Each unit to be supplied with a 5kw Electric heater to be mounted separately and powered separately but controlled by the main HP.
- Electrical heater to be a 240V/1ph/ 20.8Amps (60Hz).

UNIT HEATER / FORCE FLOW HEATER/ ELECTRIC BASEBOARD HEATER SCHEDULE

TAG	AREA SERVED	SELECTION	HEATING CAPACITY	POWER	REMARKS
UH-1	ELEC ROOM	OUTLET OCC-RF	4800/3600W	208/ 1PH	PROVIDE THERMOSTATE
UH-2	MECH ROOM	OUTLET OCC-RF	4800/3600W	208/ 1PH	PROVIDE THERMOSTATE
UH-3	SCOOTER ROOM	OUTLET OCC-RF	4800/3600W	208/ 1PH	PROVIDE THERMOSTATE
UH-4	GARBAGE ROOM	OUTLET OCC-RF	4800/3600W	208/ 1PH	PROVIDE THERMOSTATE
FF-1	WEST STAIR EAST STAIR MAINTENANCE SOUTH VESTIBULE(2)	OUTLET OAWH04008-TAV	4000W	208V / 1PH	
BB-1	OFFICE	OUTLET OCB	1100W	208V / 1PH	UNIT TO BE 4FT LONG AND WITH FLOOR MOUNTING FEET
FF-2	STORAGE ROOM	OUTLET OAWH04008-TAV		208V / 1PH	

NOTES:

- ELECTRIC BASEBOARD HEATER SHALL BE CONTROLLED USING THE VRF FAN COIL SPACE THERMOSTAT TO SUPPLEMENT THE FAN COIL HEAT PUMP FEATURE HEATING CAPABILITY
- ALL ELECTRICAL BASEBOARD HEATERS C/W BOTTOM AIR INLET & PEDESTAL
- COLOR TO BE SELECTED AT SHOP DRAWING STAGE

GRILLE AND DIFFUSER SCHEDULE

TAG	SERVICE	SELECTION	TYPE	ACCESSORIES	REMARKS
A	SUPPLY AIR DIFFUSER	SCD/31/600x600	SQUARE CONE ALUMINUM CONSTRUCTION	NOTE 1, 2, 3	NAILOR MODEL RNSA 24"x24" (T-BAR CEILING) C/W O.B. DAMPER, LOUVER FACE DIFFUSER - STEEL CONSTRUCTION
B	RETURN AIR GRILLE	EGGCRATE TYPE	EGGCRATE C/W BORDER	NOTE 1, 2, 3	NAILOR, MODEL 80/TB/B12 (T-BAR CEILING) 1/2" x 1/2" x 1/2" EGGCRATE GRILLE WITH CHANNEL FRAME - ALUMINUM CONSTRUCTION
C	EXHAUST AIR GRILLE	EGGCRATE TYPE	EGGCRATE C/W BORDER	NOTE 1, 2, 3	NAILOR, MODEL 80/TB/B12 (T-BAR CEILING) 1/2" x 1/2" x 1/2" EGGCRATE GRILLE WITH CHANNEL FRAME - ALUMINUM CONSTRUCTION
D	RETURN AIR GRILLE	SERIES 80, 600x600	EGGCRATE C/W BORDER	NOTE 1, 2, 3	
E	EXHAUST AIR GRILLE	SERIES 80, 300x300	EGGCRATE C/W BORDER	NOTE 1, 2, 3	

NOTES:

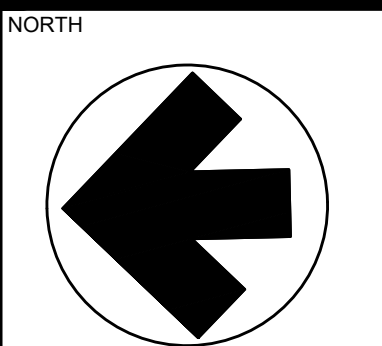
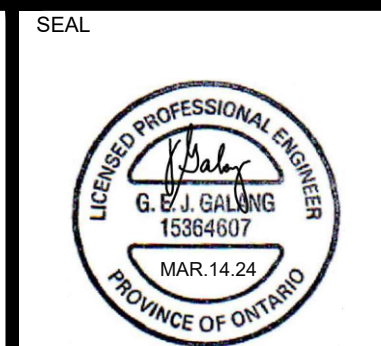
- FOR NECK SIZE AND AIR FLOW SEE DWGS
- FOR SIZE AND AIR FLOW SEE DWGS
- FOR AIR FLOW SEE DWGS
- TO BE COORDINATED WITH CEILING TILE SIZES
- THE MAD PERFORMANCE SPACE ROOM J101 SHALL BE DESIGNED FOR A MAXIMUM NC LEVEL OF 20 IN THE SPACE
- TYPE 'D' NAD KLIMA PRE-ENGINEERED DUCT & DIFFUSER SHALL HAVE THE FOLLOWING SPECIFICATIONS: SUPPLY AND INSTALL ENGINEERED NAD KLIMA RRA-RN HIGH INDUCTION DUCT DIFFUSERS, WITH FACTORY ASSEMBLED DUCT DIFFUSER SECTIONS AND DIFFUSERS PRE-INSTALLED. DIFFUSERS SHALL HAVE 100MM ER/NR DRUMS INTEGRATED INTO THE SLOTS WITH AN AIRFLOW PATTERN ADJUSTABILITY OF 180 DEGREES. DIFFUSERS SHALL BE DESIGNED FOR LESS THAN 30PPM IN THE OCCUPIED OFFICE ZONE AT 4FT AFF; LESS THAN NC35 SOUND LEVEL, AND LESS THAN 1-DEGREE TEMPERATURE DIFFERENTIAL ACROSS THE FINISHED FLOOR. NAD KLIMA RRA DUCT DIFFUSER SECTIONS SHALL BE FACTORY PRE-FABRICATED, PRE-BALANCED, PRE SEALED, PRE PAINTED WITH POWDER COATED BAKED ENAMEL FINISH, PRE-INTEGRATED AND ADJUSTED RN SLOT DRUMS AND PRE DRILLED FOR HANGING AND CONNECTING HOLES AT THE FACTORY. CONTRACTOR TO COORDINATE DIMENSIONS AND INSTALLATION WITH NAD KLIMA. DIFFUSERS SHALL BE MANUFACTURED IN CANADA WITH LEAD TIMES LESS THAN 6 WEEKS, WHEN NECESSARY. LOCAL MANUFACTURER TO BE AVAILABLE FOR SITE VISITS TO PROVIDE TECHNICAL SUPPORT TO PRODUCT AS PER SITE CONDITIONS. NAD KLIMA DIFFUSERS ARE PRE-APPROVED BY THE ARCHITECT/INTERIOR DESIGNER. PROVIDE BASE-BID NAD KLIMA MODEL RRA ENGINEERED PRE-FABRICATED HIGH INDUCTION CIRCULAR DUCT DIFFUSERS

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6	REISSUED FOR BUILDING PERMIT	MAR 14/24
5	ISSUED FOR PERMIT	FEB. 20/24
4	ISSUED FOR CLASS B COSTING	JAN. 19/24
3	ISSUED FOR COORDINATION	JAN. 12/24
2	ISSUED FOR COORDINATION	NOV.8/23
#	ISSUES	DATE

11	ISSUED FOR TENDER	JUL 31/24
10	ISSUED FOR TENDER	JUL 12/24
9	ISSUED FOR TENDER	JUN 28/24
8	REISSUED FOR BUILDING PERMIT	JUN 24/24
7	ISSUED FOR TENDER	APR 08/24
#	REVISIONS	DATE

Galang Consulting Services
 2275 Lake Shore Blvd. W., Suite 315 Toronto, ON M8V 3Y3 Canada
 e: galang@galengconsulting.ca t: 416-521-9700 c: 647-909-9899

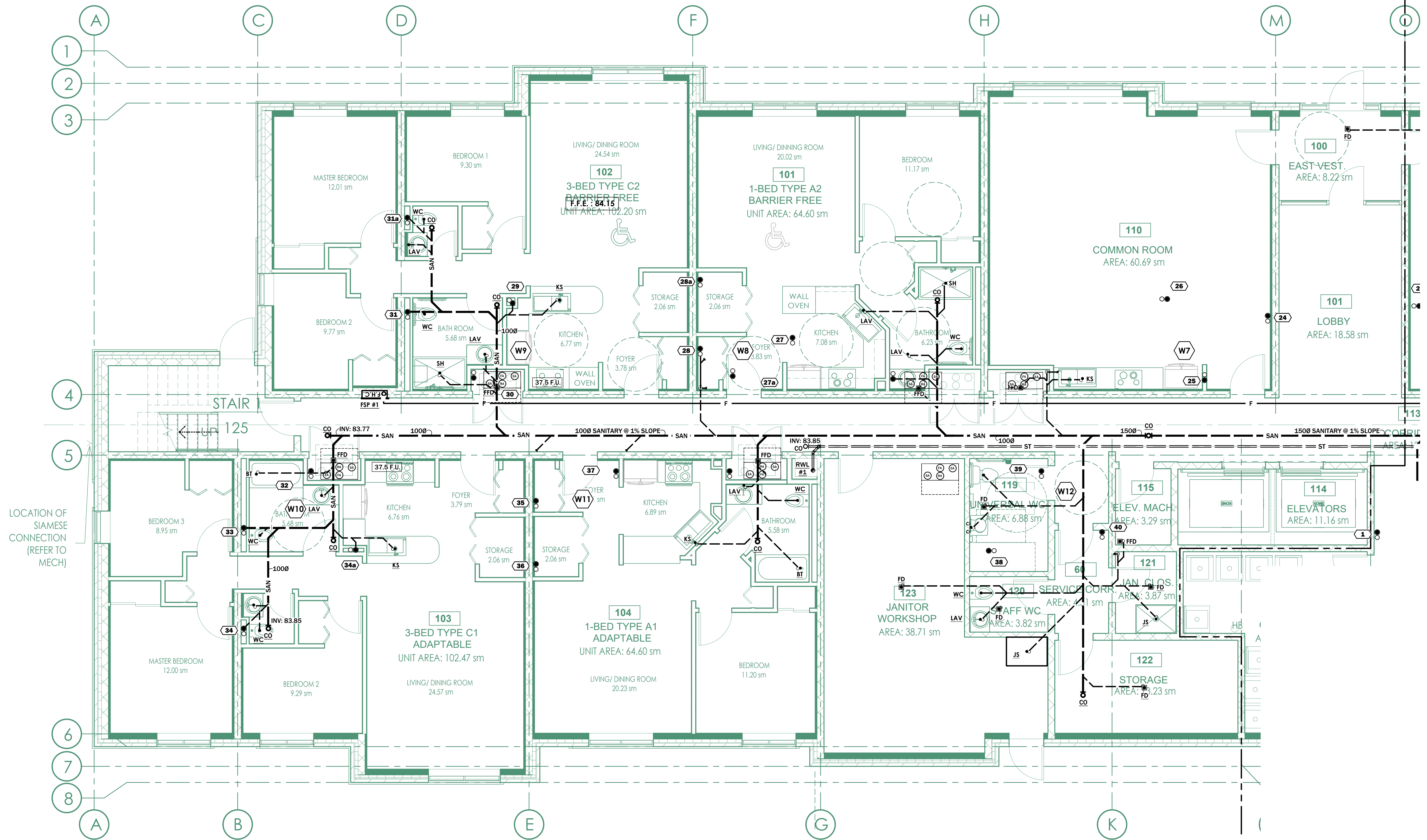


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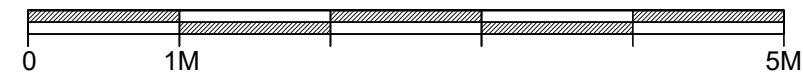
32 UNIT AFFORDABLE HOUSING APT BLDG
 20 SOUTH STREET, TRENTON ONTARIO, CANADA

DRAWING SHEET TITLE			REVIEWED BY
SCHEDULES			jbb
PROJECT NUMBER			DRAWN BY
23006	SCALE	DATE	GG
	AS NOTED	APRIL 2023	
DRAWING NUMBER			
M.003			

FOR UNIT MECHANICAL LAYOUT
REFER TO DRAWING M-



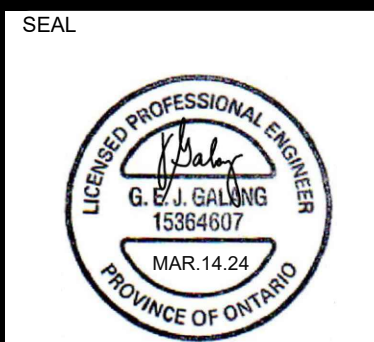
1 NORTH GROUND FLOOR PLUMBING & DRAINAGE PLAN
SCALE 1:50



This drawing is the property of the Galang Consulting Services, and must be returned upon completion of the work. All information shown on this drawing is for use on this specific project. Contractor must verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.

6	REISSUED FOR TENDER	JUL 31/24
5	ISSUED FOR TENDER	JUL 12/24
4	ISSUED FOR TENDER	JUN 28/24
3	REISSUED FOR BUILDING PERMIT	JUN 24/24
2	ISSUED FOR TENDER	APR 08/24
#	REISSUED FOR BUILDING PERMIT	MAR 24/24

#	REVISIONS	DATE



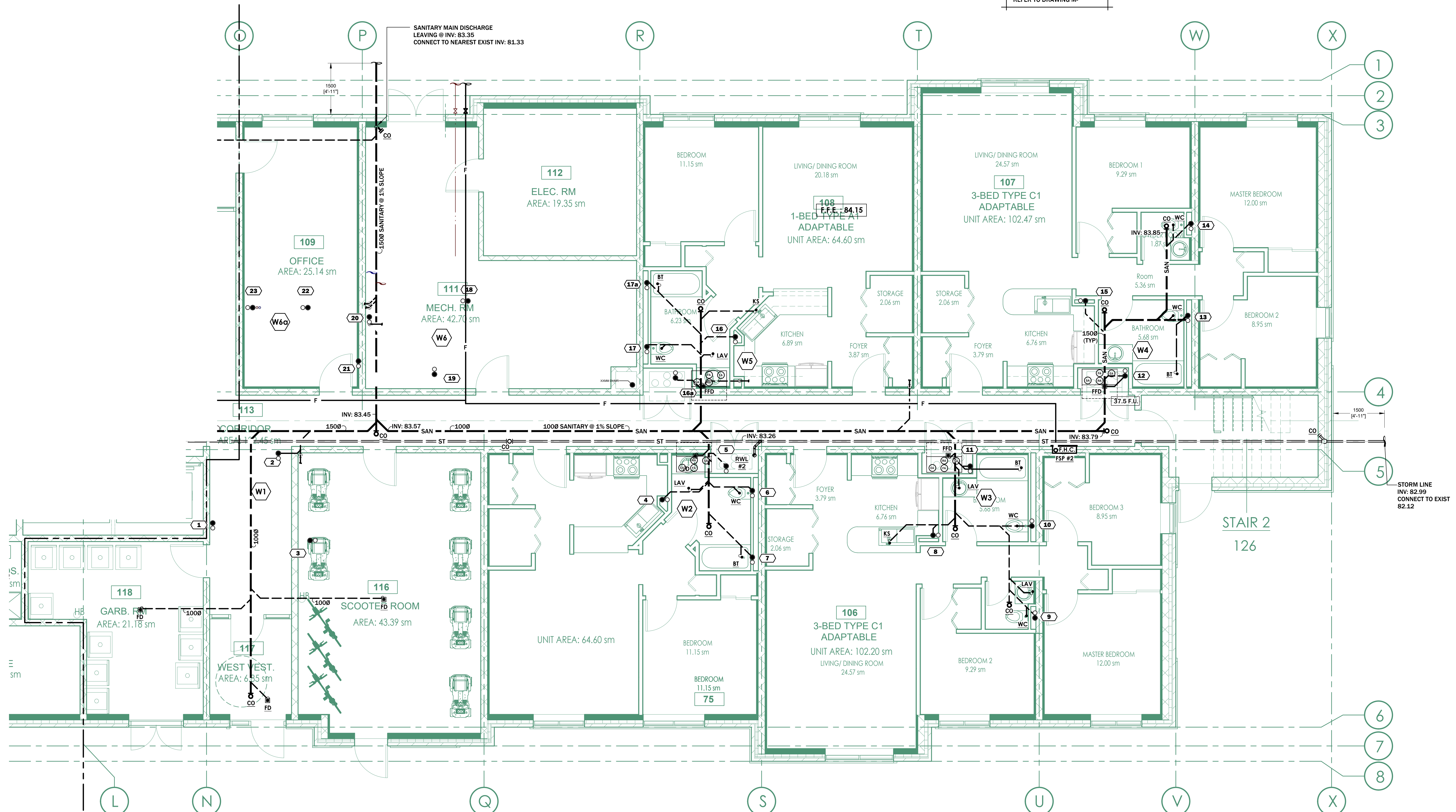
SEAL NORTH CLIENT

PROJECT TITLE
32 UNIT AFFORDABLE HOUSING APT BLDG
20 SOUTH STREET, TRENTON
ONTARIO, CANADA

DRAWING SHEET TITLE
NORTH BELOW SLAB PLUMBING & DRAINAGE PLAN
PROJECT NUMBER: 23006
SCALE: AS NOTED
DATE: APRIL 2023

REVIEWED BY: jbb
DRAWN BY: GG
DRAWING NUMBER: **M-100A**

FOR UNIT MECHANICAL LAYOUT
REFER TO DRAWING M-



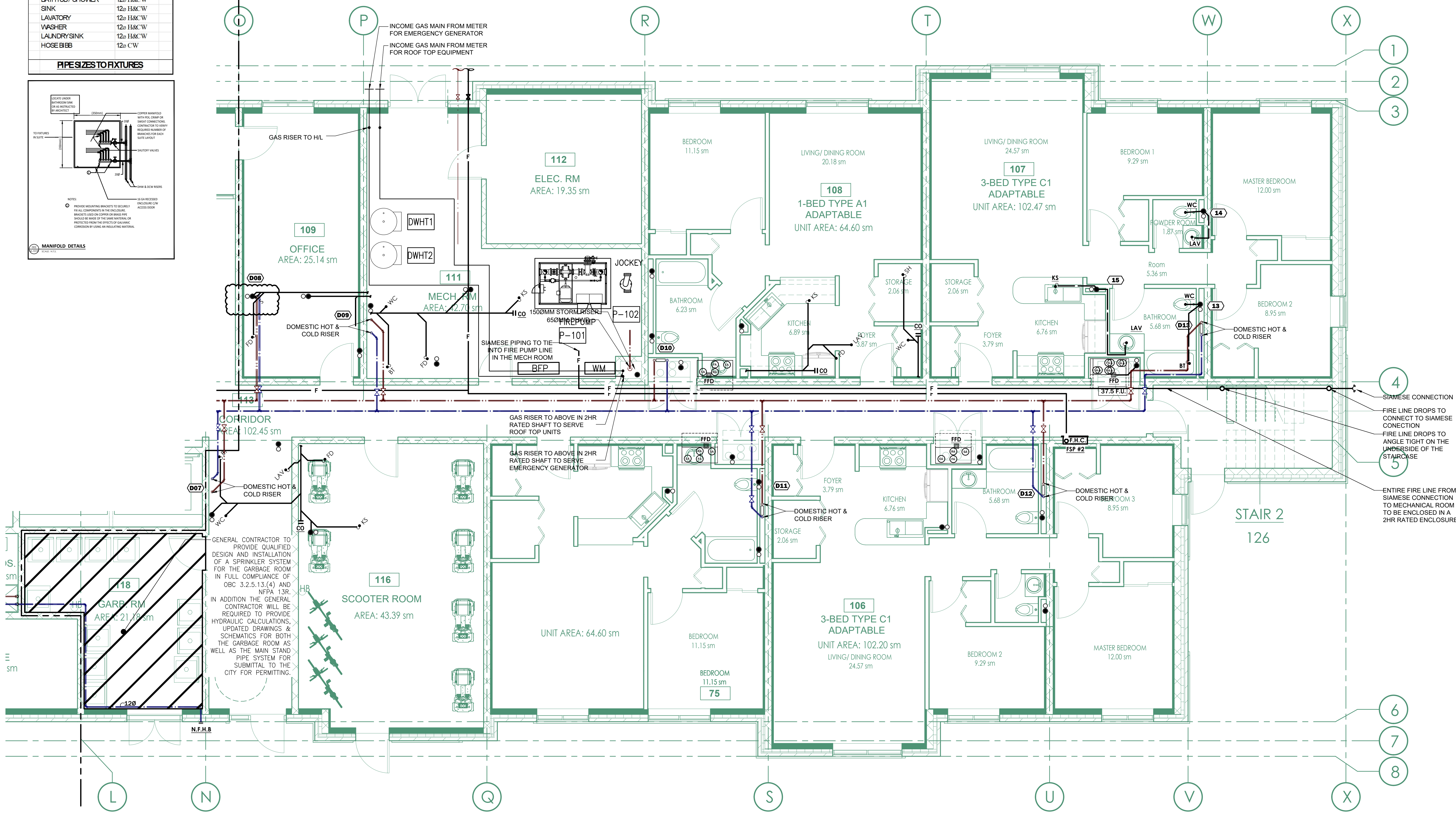
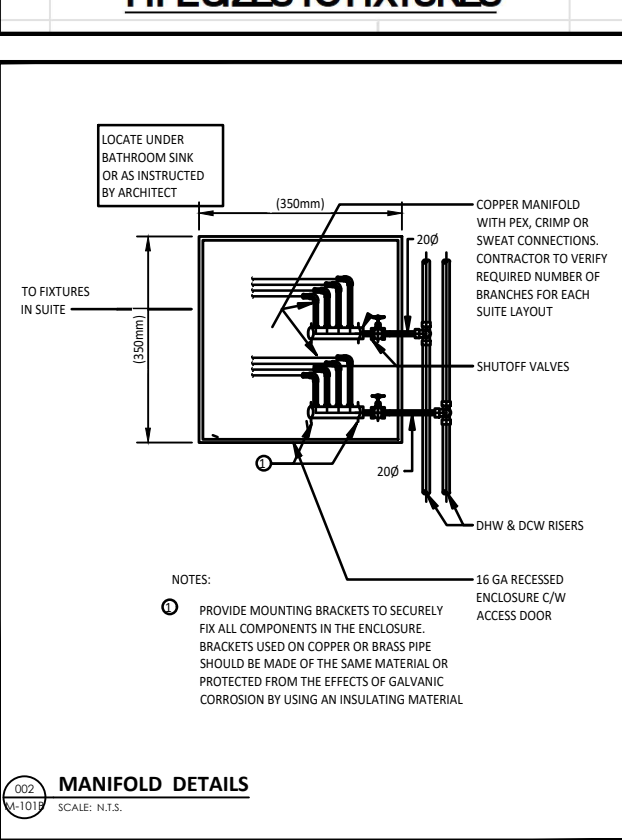
1 SOUTH GROUND FLOOR PLUMBING & DRAINAGE PLAN
V-1009 SCALE 1:50



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	5 ISSUED FOR TENDER	JUL 12/24						SOUTH BELOW SLAB PLUMBING & DRAINAGE PLAN			jbb
	4 ISSUED FOR TENDER	JUN 28/24						SCALE	DATE	DRAWN BY	
	3 REISSUED FOR BUILDING PERMIT	JUN 24/24					32 UNIT AFFORDABLE HOUSING APT BLDG	AS NOTED	APRIL 2023	GG	
	2 ISSUED FOR TENDER	APR 08/24					20 SOUTH STREET, TRENTON ONTARIO, CANADA	PROJECT NUMBER		DRAWING NUMBER	
	# REISSUED FOR BUILDING PERMIT	MAR 20/24						23006		M-100B	
	# REVISIONS	DATE									

FOR UNIT MECHANICAL LAYOUT
REFER TO DRAWING M-201B

WATER CLOSET	12ø C/W
BATH TUB / SHOWER	12ø H&C/W
SINK	12ø H&C/W
LAVATORY	12ø H&C/W
WASHER	12ø H&C/W
LAUNDRY SINK	12ø H&C/W
HOSE BIBB	12ø C/W

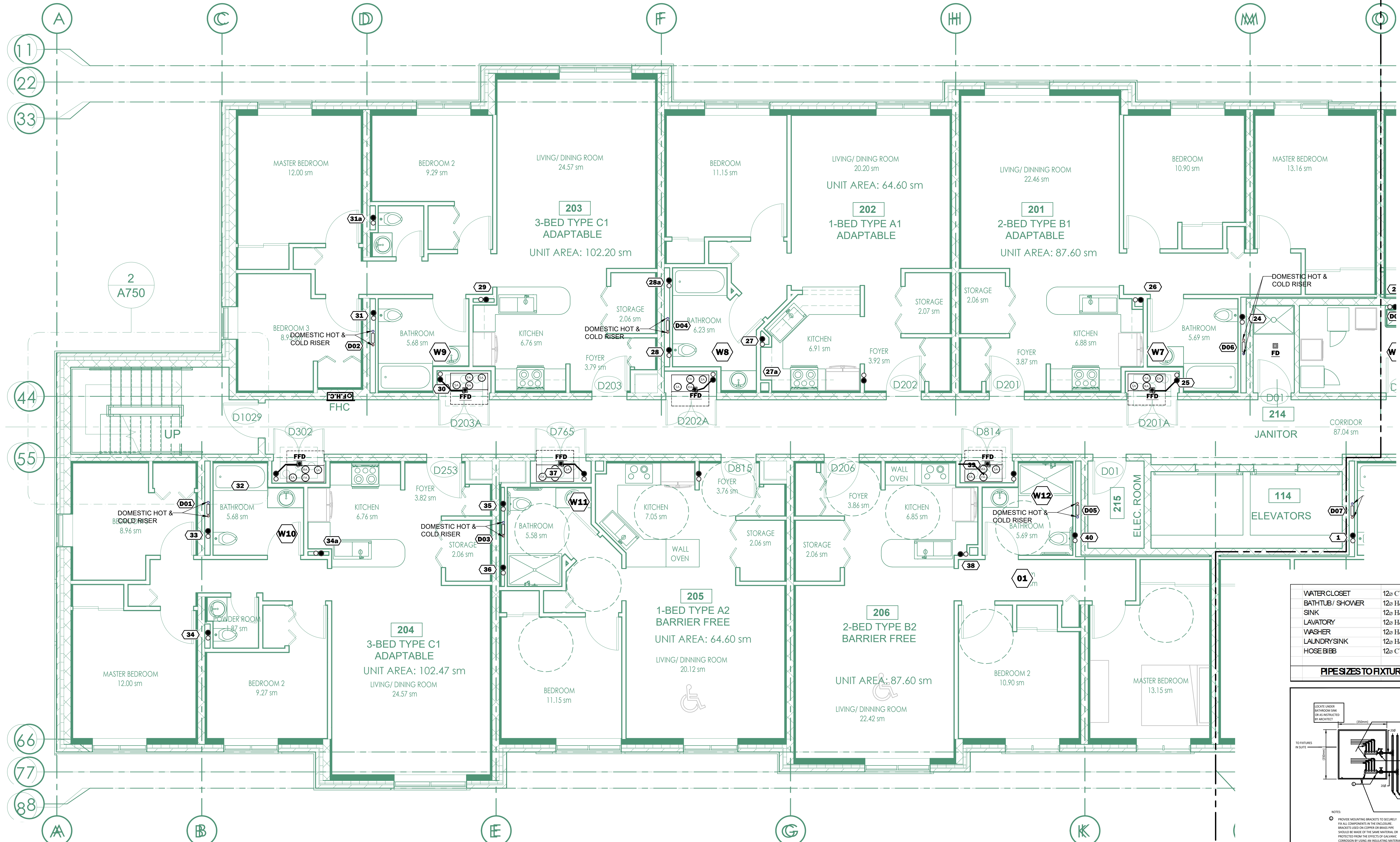


1 SOUTH GROUND FLOOR PLUMBING & DRAINAGE PLAN
M-101B SCALE 1:50

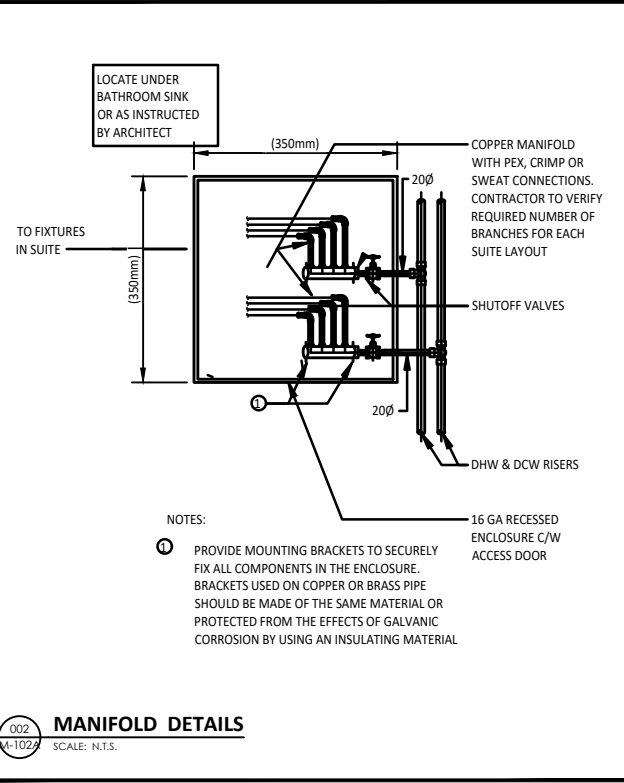


<p>This drawing is the property of the Galang Consulting Services, and must be returned upon completion of the work. All information shown on this drawing is for use on this specific project. Contractor must verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.</p>	6 REISSUED FOR BUILDING PERMIT MAR 14/24	11 ISSUED FOR TENDER JUL 31/24	<p>Galang Consulting Services 2275 Lake Shore Blvd. W., Suite 315 Toronto, ON M8V 3Y3 Canada e: gll.galang@gcsengineering.ca t: 416-521-9700 c: 647-909-9899</p>			<p>CLIENT</p>	<p>PROJECT TITLE</p> <p>32 UNIT AFFORDABLE HOUSING APT BLDG 20 SOUTH STREET, TRENTON ONTARIO, CANADA</p>	<p>DRAWING SHEET TITLE</p> <p>SOUTH GROUND FLOOR PLUMBING & DRAINAGE PLAN</p>	<p>REVIEWED BY</p> <p>jbb</p>		
	5 ISSUED FOR PERMIT FEB. 20/24	10 ISSUED FOR TENDER JUL 12/24								<p>DRAWN BY</p> <p>GG</p>	
	4 ISSUED FOR CLASS B COSTING JAN. 19/24	9 ISSUED FOR TENDER JUN 28/24									<p>DRAWING NUMBER</p> <p>M-101B</p>
	3 ISSUED FOR COORDINATION JAN. 12/24	8 REISSUED FOR BUILDING PERMIT JUN 24/24									
2 ISSUED FOR COORDINATION NOV. 8/23	7 ISSUED FOR TENDER APR 08/24										
# ISSUES	DATE	# REVISIONS	DATE	PROJECT NUMBER	SCALE	DATE					
				23006	AS NOTED	APRIL 2023					

FOR UNIT MECHANICAL LAYOUT
REFER TO DRAWING M-202A



PIPESIZES TO FIXTURES	
WATER CLOSET	12" CW
BATH/TUB / SHOWER	12" H&C W
SINK	12" H&C W
LAVATORY	12" H&C W
WASHER	12" H&C W
LAUNDRY SINK	12" H&C W
HOSE BIBB	12" CW

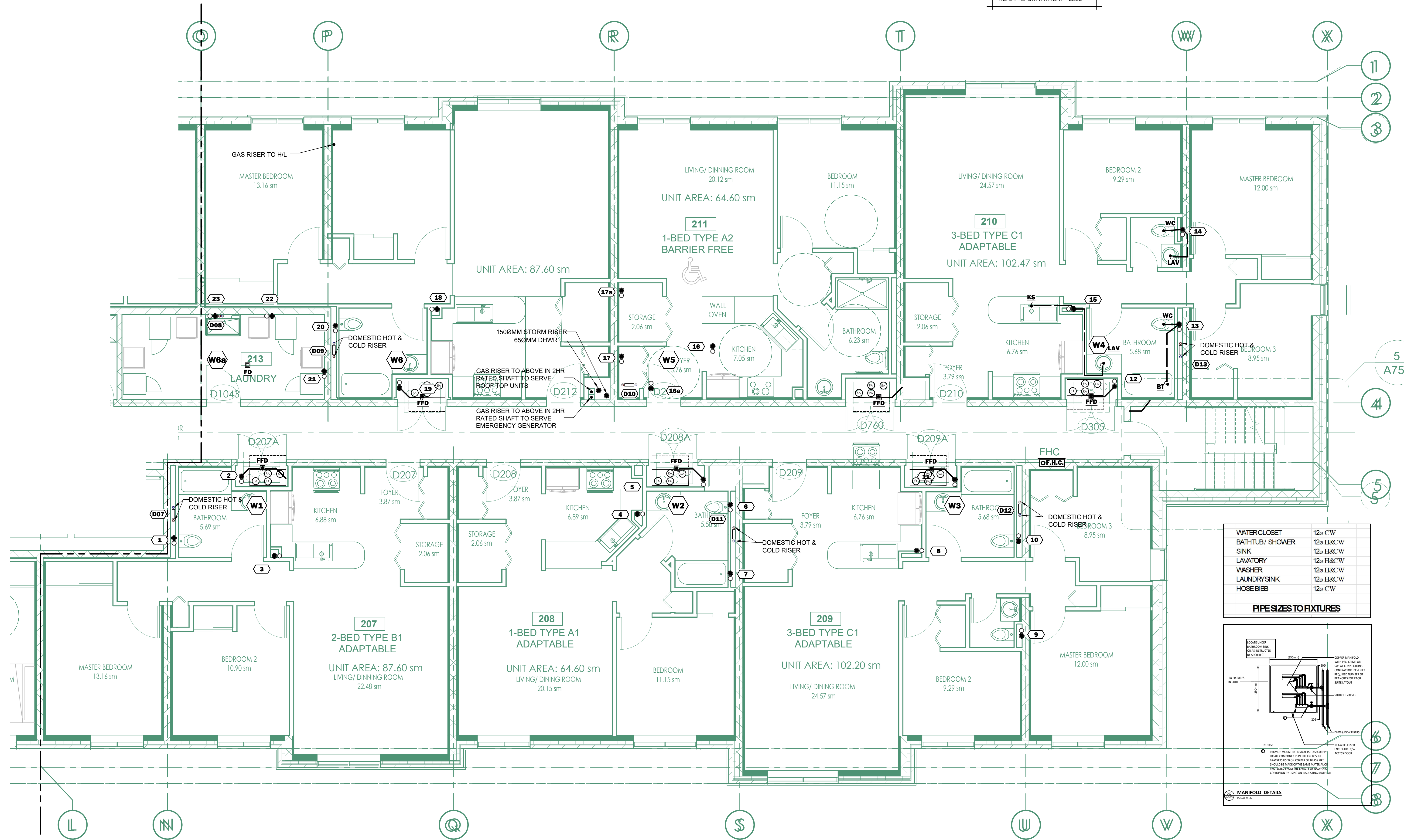


1 NORTH SECOND FLOOR PLUMBING & DRAINAGE PLAN
SCALE 1:50

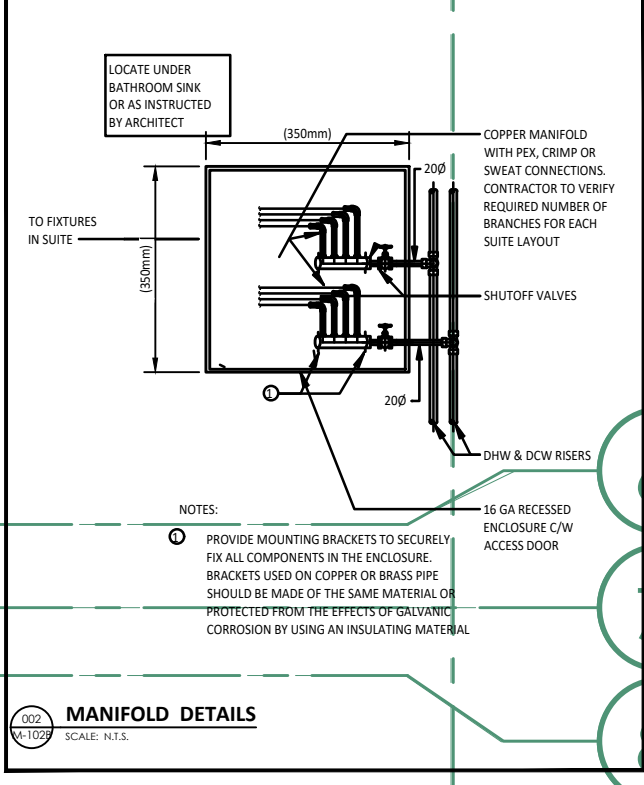


<p>This drawing is the property of the Galang Consulting Services, and must be returned upon completion of the work. All information shown on this drawing is for use on this specific project. Contractor must verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.</p>	<p>6 REISSUED FOR BUILDING PERMIT MAR 14/24</p>	<p>11 ISSUED FOR TENDER JUL 31/24</p>	<p>Galang Consulting Services 2275 Lake Shore Blvd. W., Suite 315 Toronto, ON M8V 3Y3 Canada g.galang@gcsengineering.ca t: 416-521-9700 c: 647-909-9899</p>		<p>NORTH</p>	<p>CLIENT</p>	<p>PROJECT TITLE</p> <p>32 UNIT AFFORDABLE HOUSING APT BLDG 20 SOUTH STREET, TRENTON ONTARIO, CANADA</p>	<p>DRAWING SHEET TITLE</p> <p>NORTH SECOND FLOOR PLUMBING & DRAINAGE PLAN</p>			<p>REVIEWED BY</p> <p>jbb</p>
	<p>5 ISSUED FOR PERMIT FEB. 20/24</p> <p>4 ISSUED FOR CLASS B COSTING JAN. 19/24</p> <p>3 ISSUED FOR COORDINATION JAN. 12/24</p> <p>2 ISSUED FOR COORDINATION NOV. 8/23</p> <p># ISSUES DATE</p>	<p>10 ISSUED FOR TENDER JUL 12/24</p> <p>9 ISSUED FOR TENDER JUN 28/24</p> <p>8 REISSUED FOR BUILDING PERMIT JUN 24/24</p> <p>7 ISSUED FOR TENDER APR 08/24</p> <p># REVISIONS DATE</p>						<p>SCALE</p> <p>AS NOTED</p>	<p>DATE</p> <p>APRIL 2023</p>	<p>DRAWN BY</p> <p>GG</p>	

FOR UNIT MECHANICAL LAYOUT
REFER TO DRAWING M-202B



PIPESIZES TO FIXTURES	
WATER CLOSET	12" CW
BATHUB/ SHOWER	12" H&C'W
SINK	12" H&C'W
LAVATORY	12" H&C'W
WASHER	12" H&C'W
LAUNDRY/SINK	12" H&C'W
HOSE BIBB	12" C'W

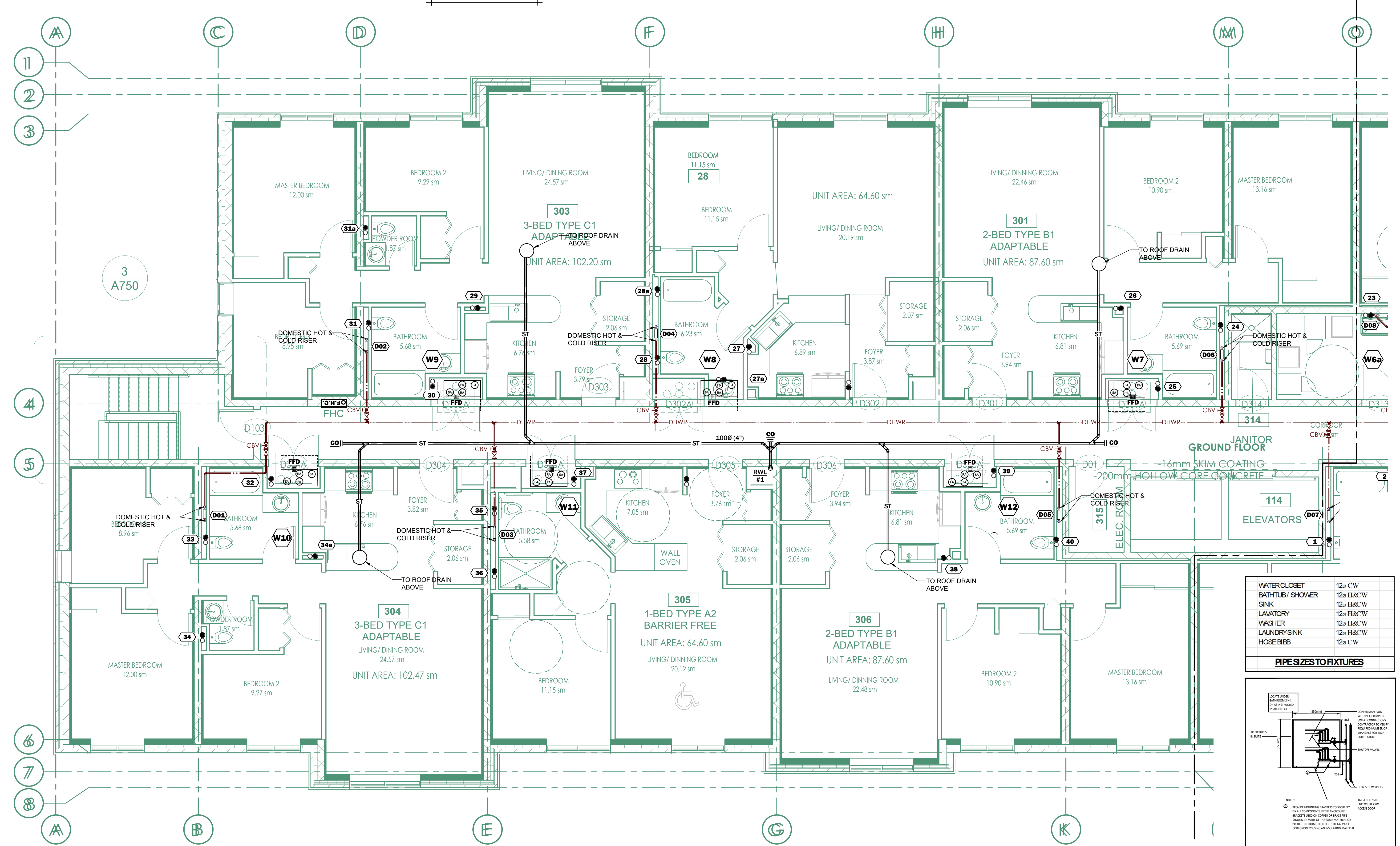


1 SOUTH SECOND FLOOR PLUMBING & DRAINAGE PLAN
M-102B SCALE 1:50

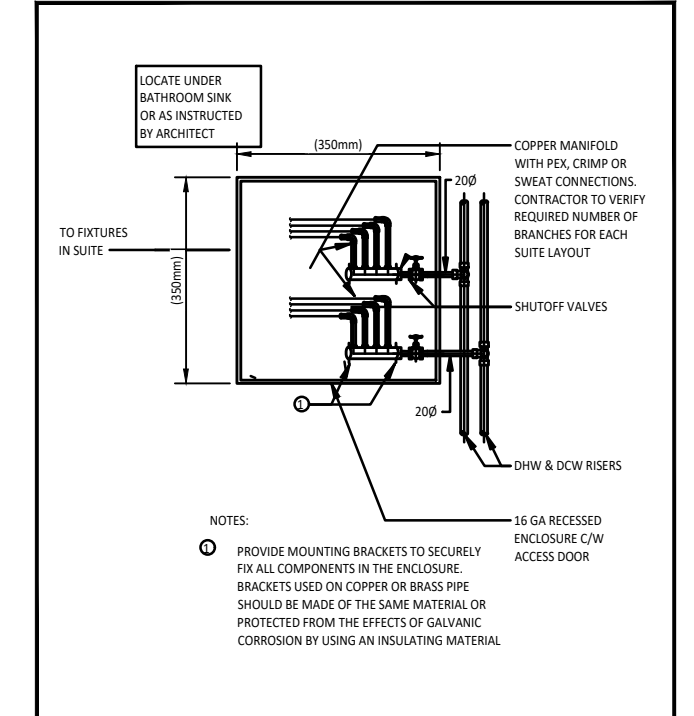


This drawing is the property of the Galang Consulting Services, and must be returned upon completion of the work. All information shown on this drawing is for use on this specific project. Contractor must verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.	6 REISSUED FOR BUILDING PERMIT MAR 14/24 5 ISSUED FOR PERMIT FEB. 20/24 4 ISSUED FOR CLASS B COSTING JAN. 19/24 3 ISSUED FOR COORDINATION JAN. 12/24 2 ISSUED FOR COORDINATION NOV. 8/23 # ISSUES DATE	11 ISSUED FOR TENDER JUL 31/24 10 ISSUED FOR TENDER JUL 12/24 9 ISSUED FOR TENDER JUN 28/24 8 REISSUED FOR BUILDING PERMIT JUN 24/24 7 ISSUED FOR TENDER APR 08/24 # REVISIONS DATE	 Galang Consulting Services 2275 Lake Shore Blvd. W., Suite 315 Toronto, ON M8V 3Y3 Canada e: g.j.galang@gcsengineering.ca t: 416-521-9700 c: 647-909-9899	SEAL 	NORTH 	CLIENT	PROJECT TITLE 32 UNIT AFFORDABLE HOUSING APT BLDG 20 SOUTH STREET, TRENTON ONTARIO, CANADA	DRAWING SHEET TITLE SOUTH SECOND FLOOR PLUMBING & DRAINAGE PLAN	REVIEWED BY jbb
	PROJECT NUMBER 23006	SCALE AS NOTED	DATE APRIL 2023	DRAWING NUMBER M-102B	DRAWN BY GG				

FOR UNIT MECHANICAL LAYOUT
REFER TO DRAWING M-203A



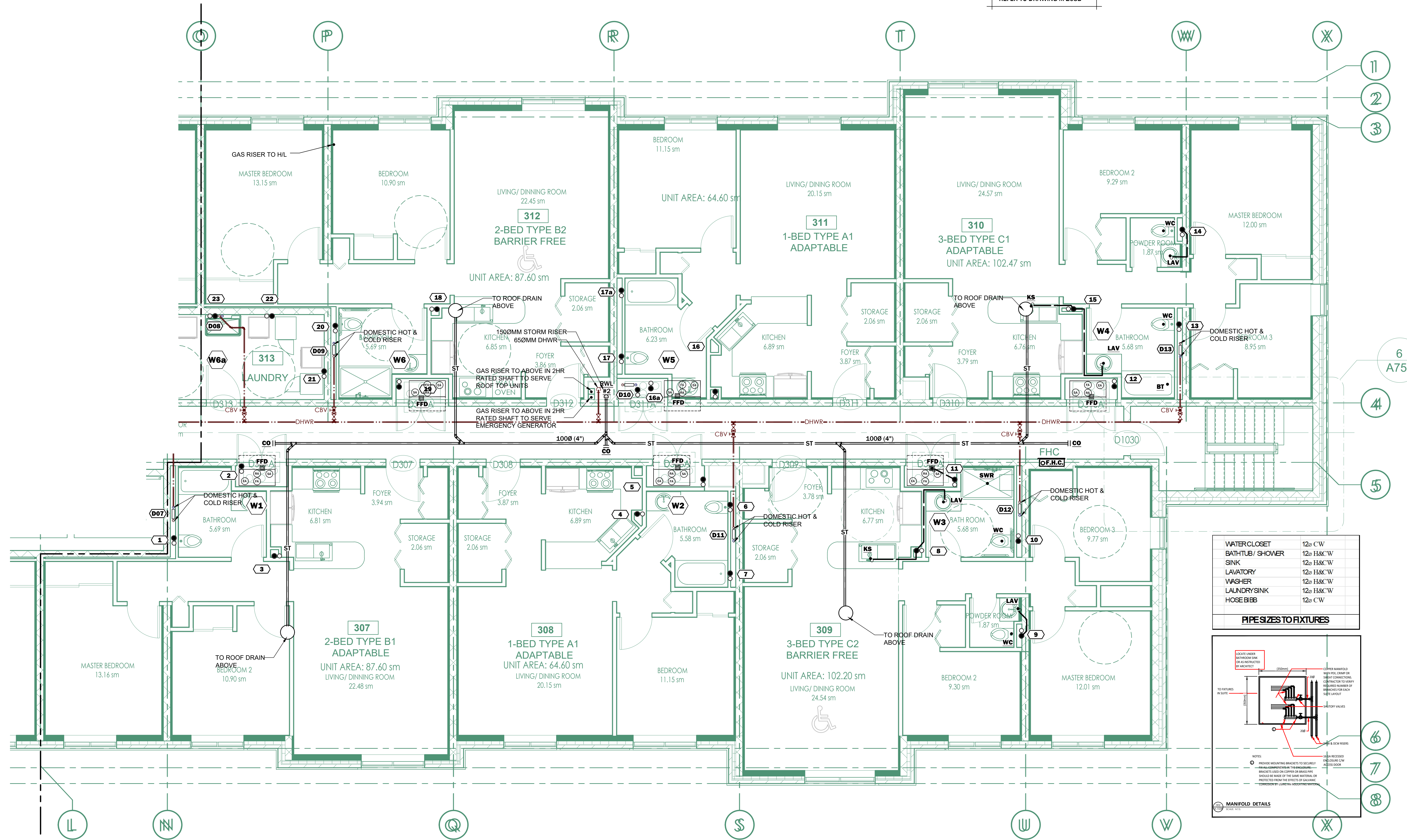
PIPESIZES TO FIXTURES	
WATER CLOSET	12" C/W
BATH/TUB / SHOWER	12" H&C/W
SINK	12" H&C/W
LAVATORY	12" H&C/W
WASHER	12" H&C/W
LAUNDRY/SINK	12" H&C/W
HOSE BIBB	12" C/W



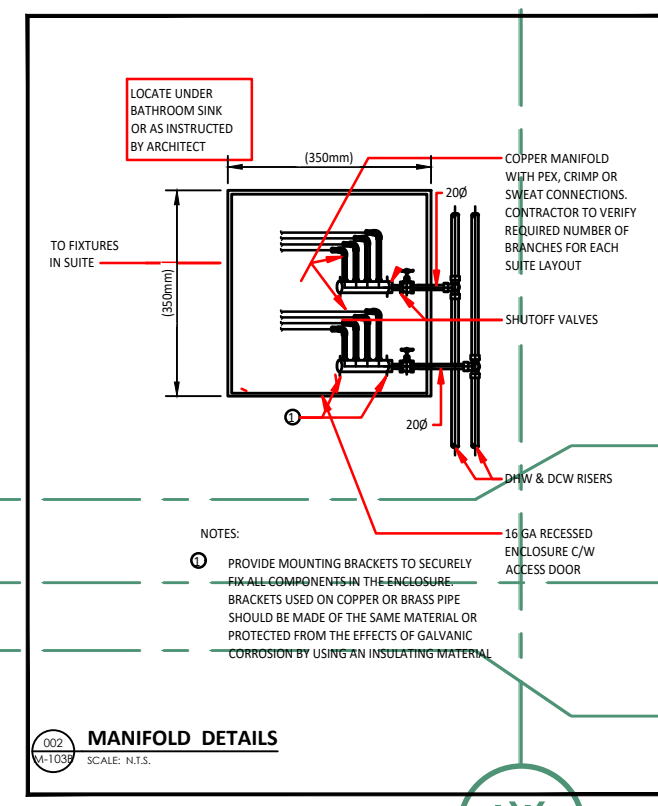
1 NORTH THIRD FLOOR PLUMBING & DRAINAGE PLAN
M-103A SCALE 1:50

<p>This drawing is the property of the Galang Consulting Services, and must be returned upon completion of the work. All information shown on this drawing is for use on this specific project. Contractor must verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.</p>	<p>6 REISSUED FOR BUILDING PERMIT MAR 14/24</p>	<p>11 ISSUED FOR TENDER JUL 31/24</p>	<p>SEAL</p>	<p>NORTH</p>	<p>CLIENT</p>	<p>PROJECT TITLE</p> <p>32 UNIT AFFORDABLE HOUSING APT BLDG 20 SOUTH STREET, TRENTON ONTARIO, CANADA</p>	<p>DRAWING SHEET TITLE</p> <p>NORTH THIRD FLOOR PLUMBING & DRAINAGE PLAN</p>		<p>REVIEWED BY</p> <p>jbb</p>
	<p>5 ISSUED FOR PERMIT FEB. 20/24</p>	<p>10 ISSUED FOR TENDER JUL 12/24</p>					<p>PROJECT NUMBER</p> <p>23006</p>	<p>SCALE</p> <p>AS NOTED</p>	
<p>4 ISSUED FOR CLASS B COSTING JAN. 19/24</p>	<p>9 ISSUED FOR TENDER JUN 28/24</p>	<p>7 ISSUED FOR TENDER APR 08/24</p>	<p>Galang Consulting Services</p> <p>2275 Lake Shore Blvd. W., Suite 315 Toronto, ON M8V 3Y3 Canada</p> <p>t: 416-521-9700 c: 647-909-9899</p>		<p>CLIENT</p>	<p>PROJECT TITLE</p> <p>32 UNIT AFFORDABLE HOUSING APT BLDG 20 SOUTH STREET, TRENTON ONTARIO, CANADA</p>	<p>DRAWING SHEET TITLE</p> <p>NORTH THIRD FLOOR PLUMBING & DRAINAGE PLAN</p>		<p>REVIEWED BY</p> <p>jbb</p>
<p>3 ISSUED FOR COORDINATION JAN. 12/24</p>	<p>8 REISSUED FOR BUILDING PERMIT JUN 24/24</p>	<p># ISSUES</p>					<p># REVISIONS</p>	<p>SCALE</p> <p>AS NOTED</p>	

FOR UNIT MECHANICAL LAYOUT
REFER TO DRAWING M-203B



PIPE SIZES TO FIXTURES	
WATER CLOSET	12" CW
BATHUB/ SHOWER	12" H&C W
SINK	12" H&C W
LAVATORY	12" H&C W
WASHER	12" H&C W
LAUNDRIESINK	12" H&C W
HOSE BIBB	12" CW



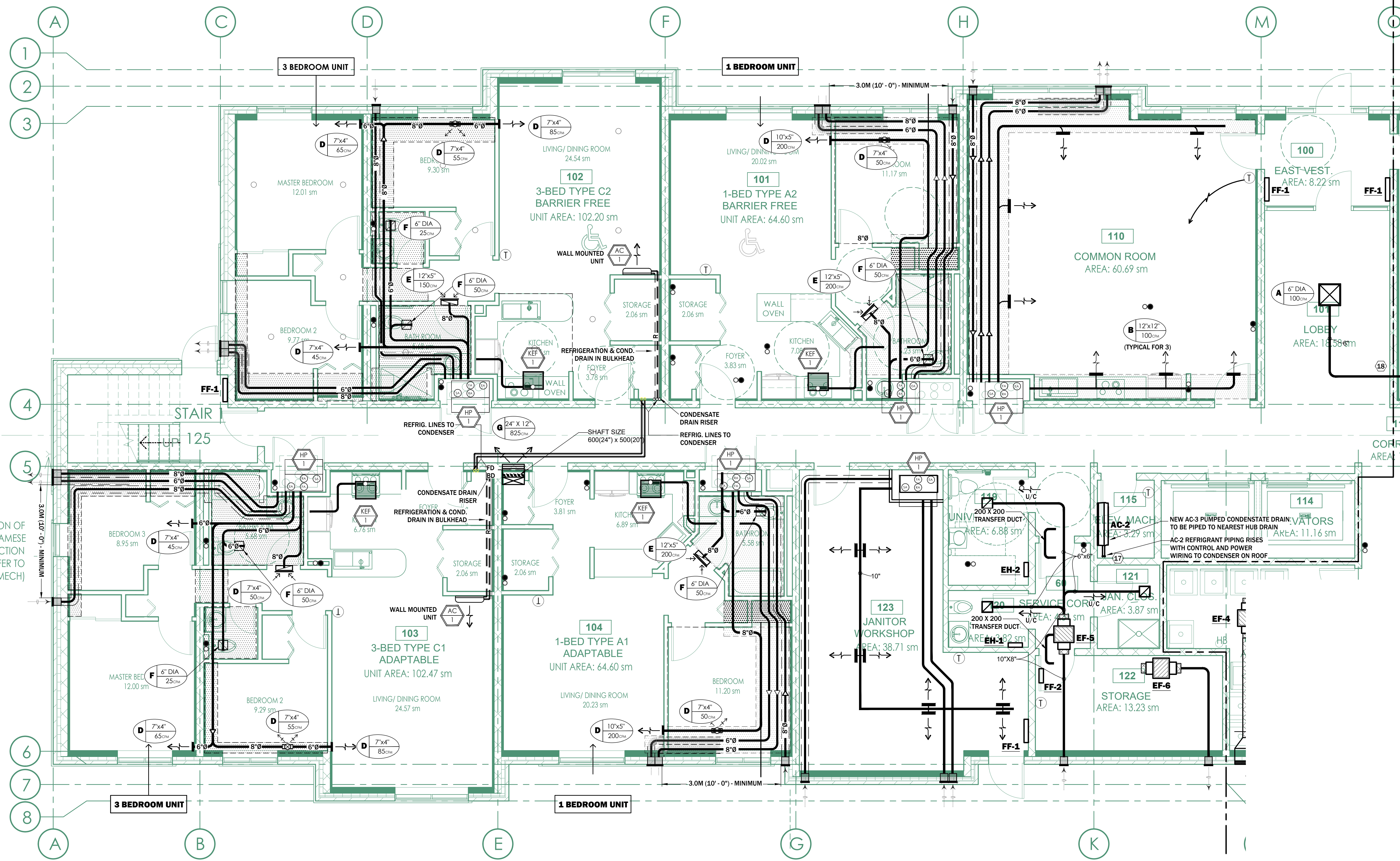
1 SOUTH THIRD FLOOR PLUMBING & DRAINAGE PLAN
M-103B SCALE 1:50



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	PROJECT NUMBER 23006	SCALE AS NOTED	DATE APRIL 2023	DRAWING NUMBER M-103B	DRAWN BY GG				

NOTES:

- ① INDICATES TYPICAL BULKHEAD/ DROP CEILING. COORDINATE WITH ARCHITECTURAL DRAWINGS.
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- ⑱ EF-5 INTERLOCK WITH LIGHTING CONTROLS FOR THE SPACES BEING SERVED.

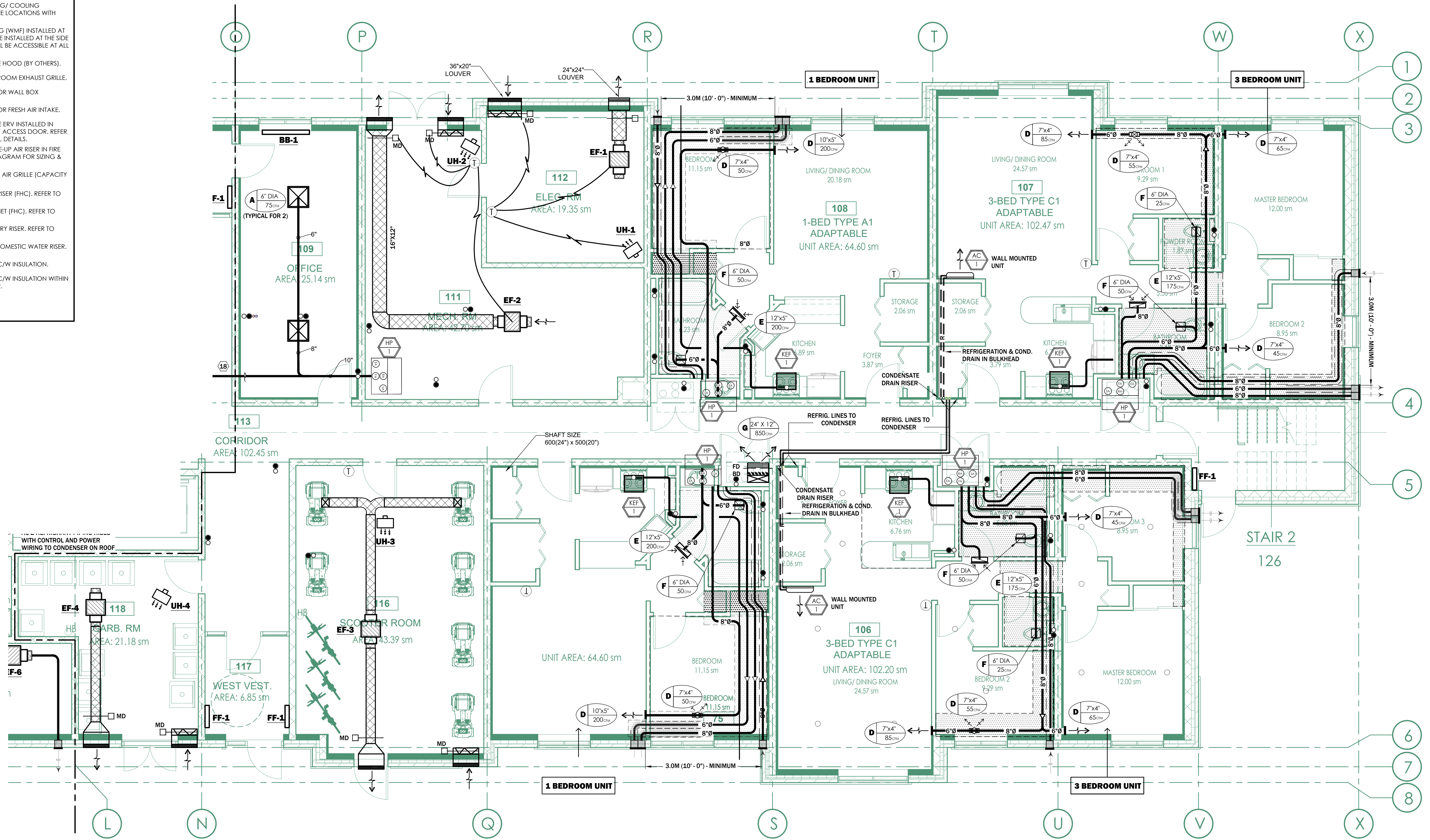


1 NORTH GROUND FLOOR HVAC PLAN
M-201A SCALE 1:50

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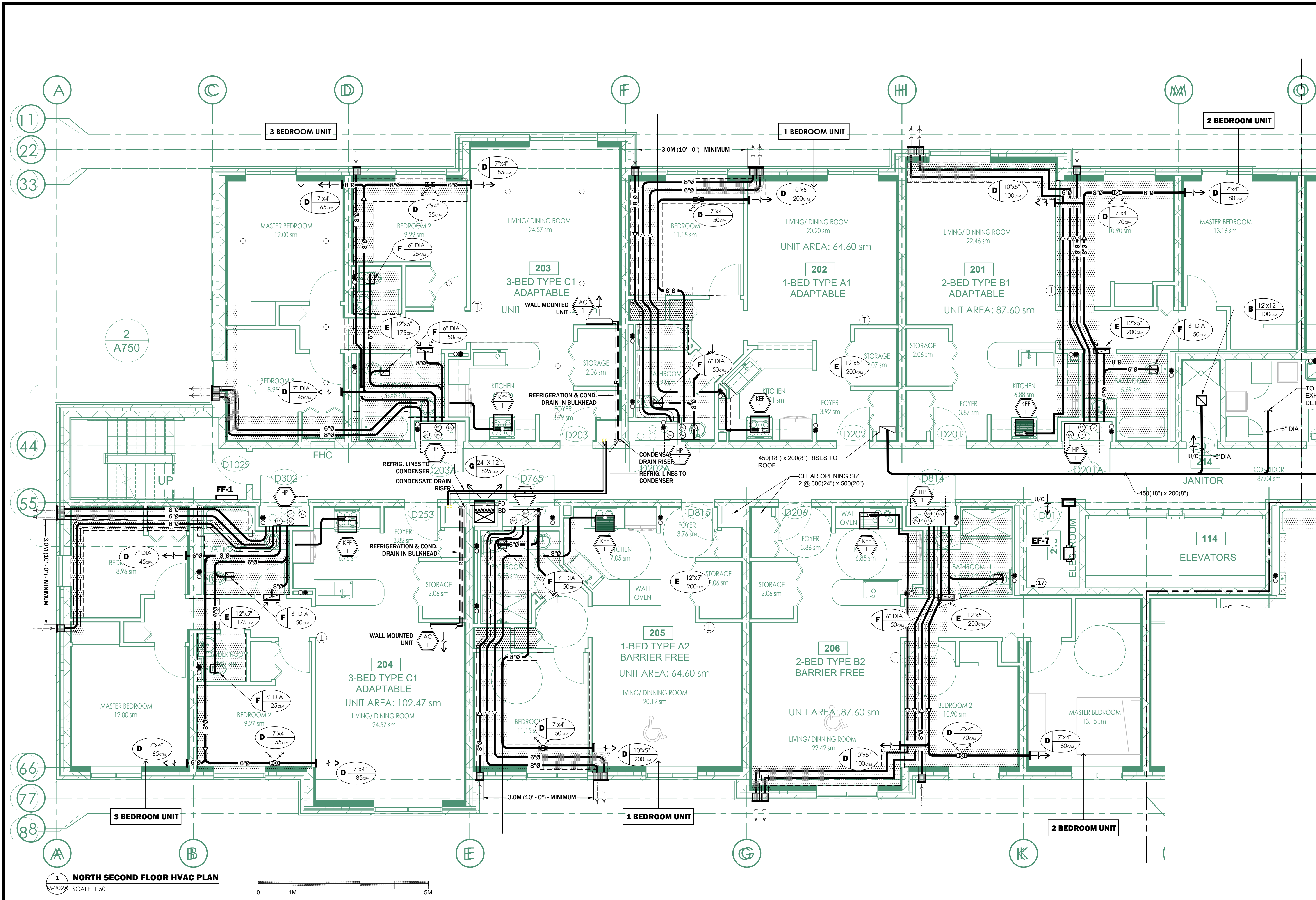
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 W-2018 SCALE 1:50

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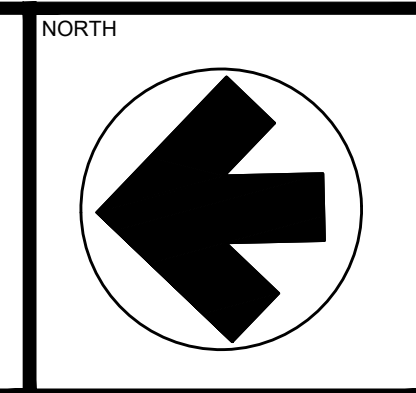
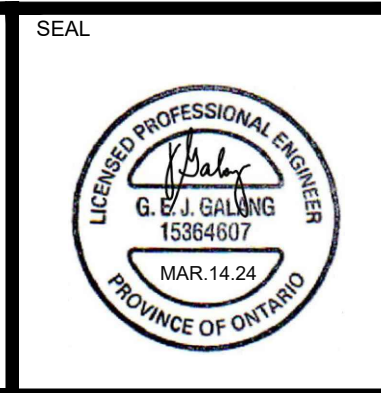
1 NORTH SECOND FLOOR HVAC PLAN
M-202A SCALE 1:50

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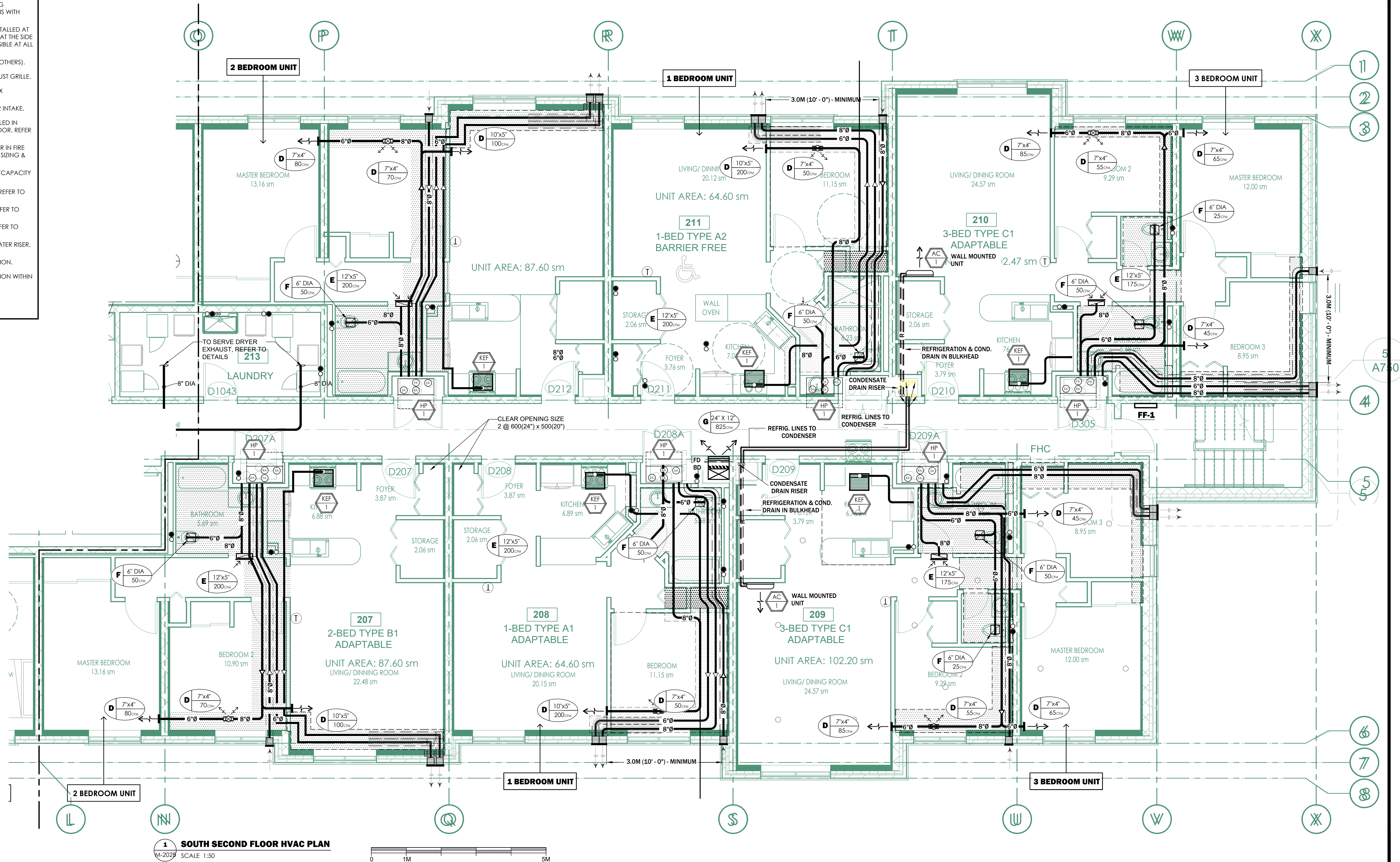
PROJECT TITLE
32 UNIT AFFORDABLE HOUSING APT BLDG
20 SOUTH STREET, TRENTON
ONTARIO, CANADA

DRAWING SHEET TITLE		
NORTH SECOND FLOOR HVAC PLAN		
PROJECT NUMBER	SCALE	DATE
23006	AS NOTED	APRIL 2023

REVIEWED BY	DRAWN BY	DRAWING NUMBER
jbb	GG	M-202A

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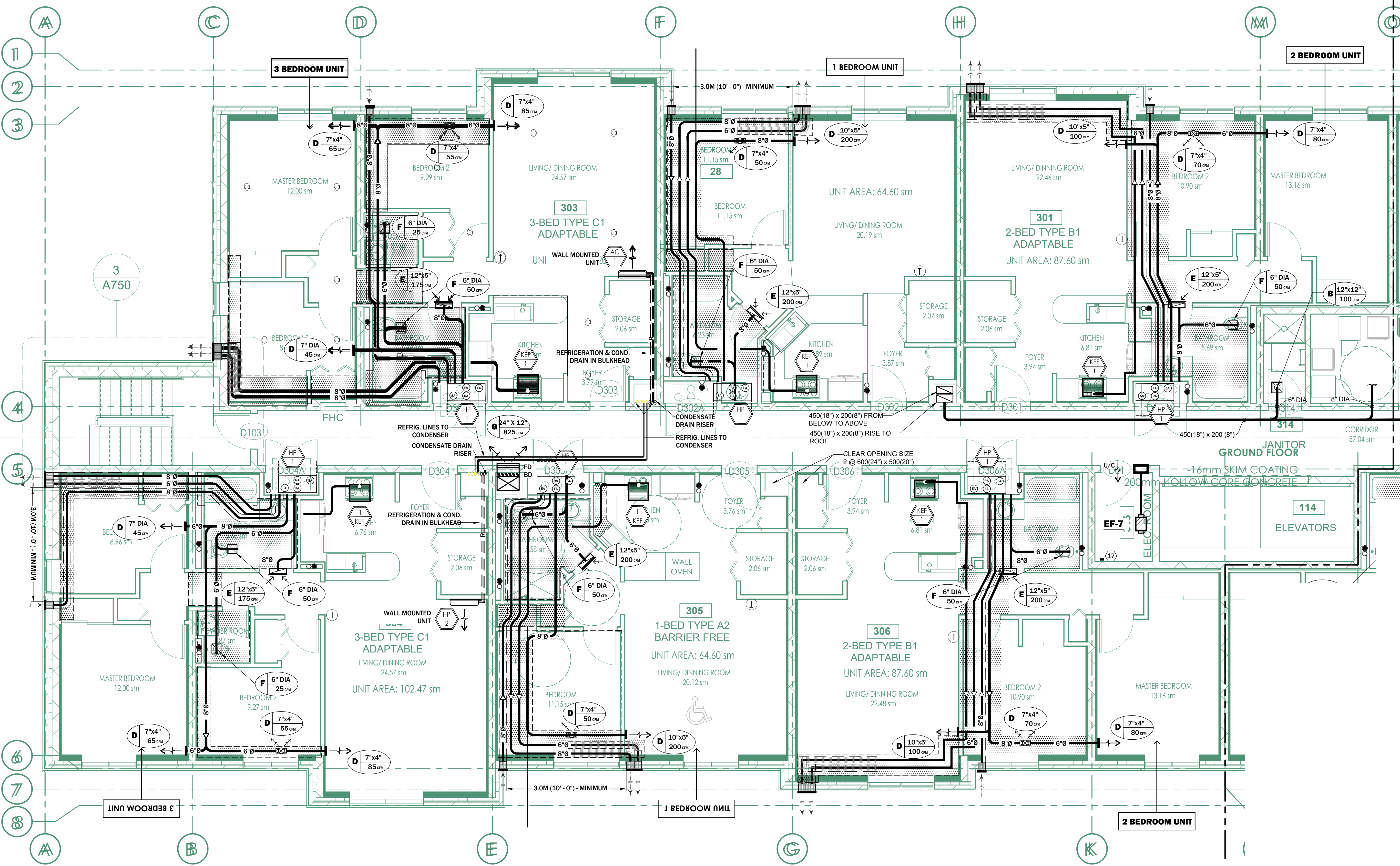


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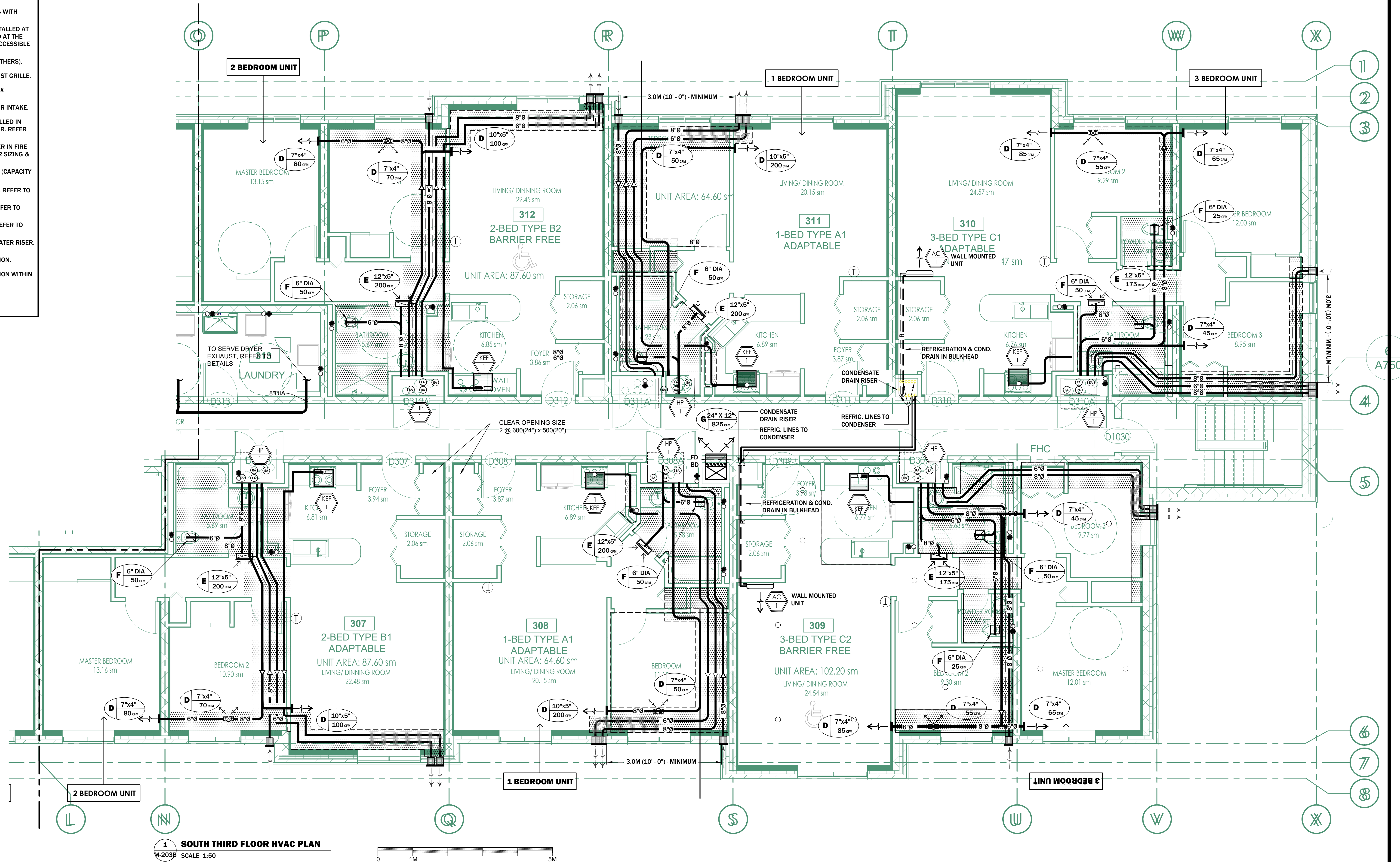


1 NORTH THIRD FLOOR HVAC PLAN
M-203A SCALE 1:50

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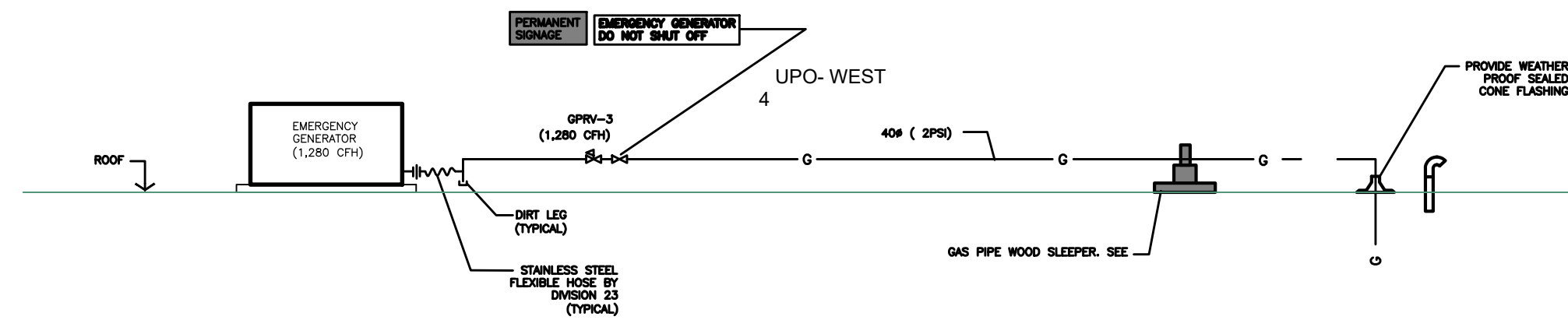
NOTES:

- 1 INDICATES TYPICAL BULKHEAD/ DROP CEILING. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 2 INDICATES TYPICAL HEATING/ COOLING THERMOSTAT. COORDINATE LOCATIONS WITH DIVISION 16.
- 3 WASHING MACHINE FITTING (WMF) INSTALLED AT EVERY WASHER. WMF TO BE INSTALLED AT THE SIDE OF THE WASHER AND SHALL BE ACCESSIBLE AT ALL TIMES. SEE DETAIL.
- 4 INDICATES TYPICAL RANGE HOOD (BY OTHERS).
- 5 INDICATES TYPICAL WASHROOM EXHAUST GRILLE.
- 6 INDICATES TYPICAL EXTERIOR WALL BOX DESIGNATION.
- 7 INDICATES TYPICAL EXTERIOR FRESH AIR INTAKE.
- 8 INDICATES TYPICAL IN SUITE ERV INSTALLED IN WASHROOM CEILING C/W ACCESS DOOR. REFER TO SPECS FOR ADDITIONAL DETAILS.
- 9 DENOTES CORRIDOR MAKE-UP AIR RISER IN FIRE RATED SHAFT. SEE RISER DIAGRAM FOR SIZING & DETAILS.
- 10 INDICATES TYPICAL SUPPLY AIR GRILLE (CAPACITY AS NOTED).
- 11 BUILDING FIRE STANDPIPE RISER (FHC). REFER TO DETAIL.
- 12 BUILDING FIRE HOSE CABINET (FHC). REFER TO DETAIL.
- 13 INDICATES TYPICAL SANITARY RISER. REFER TO RISER DIAGRAM.
- 14 INDICATES TYPICAL SUITE DOMESTIC WATER RISER. REFER TO DETAIL.
- 15 INDICATES TYPICAL DUCT C/W INSULATION.
- 16 INDICATES TYPICAL DUCT C/W INSULATION WITHIN 1.5M (5 FT) FROM EXTERIOR.

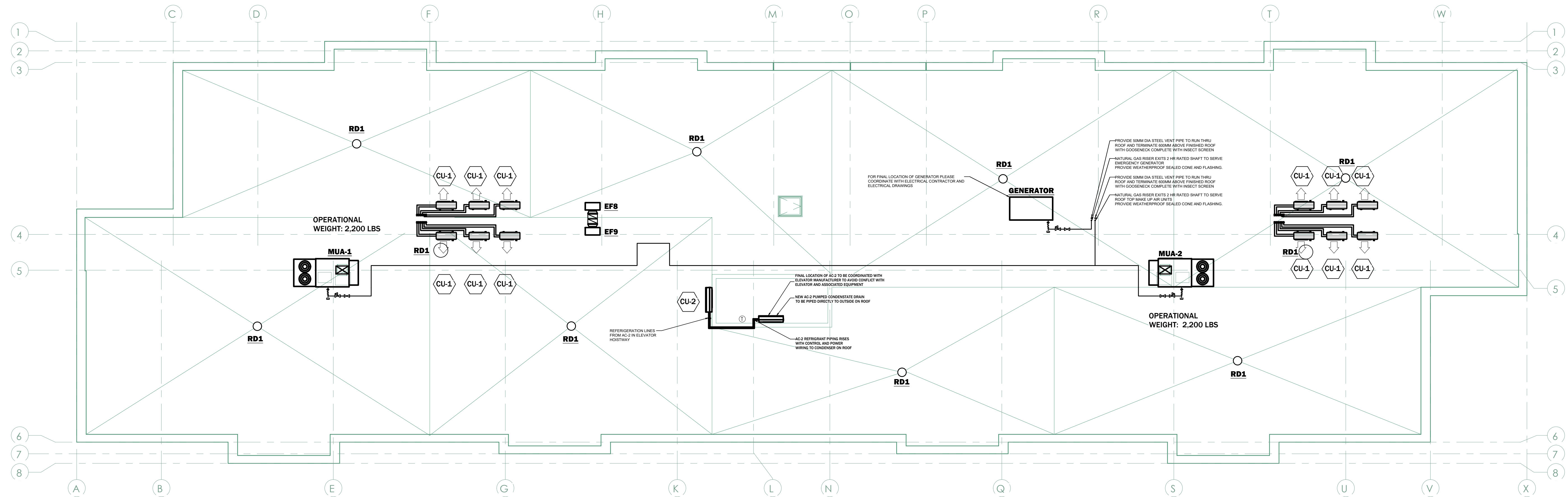


1 SOUTH THIRD FLOOR HVAC PLAN
M-203B SCALE 1:50

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2 EMERGENCY GENERATOR DETAIL
 M-300 SCALE 1:100



1 MECHANICAL ROOF PLAN
 M-300 SCALE 1:100

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Galang Consulting Services
 2275 Lake Shore Blvd. W., Suite 315 Toronto, ON M8V 3Y3 Canada
 g.galang@gcsengineering.ca t: 416-521-9700 c: 647-909-9899

SEAL
 LICENSED PROFESSIONAL ENGINEER
 G. E. J. GALANG
 15264607
 MAR 14 24
 PROVINCE OF ONTARIO

NORTH

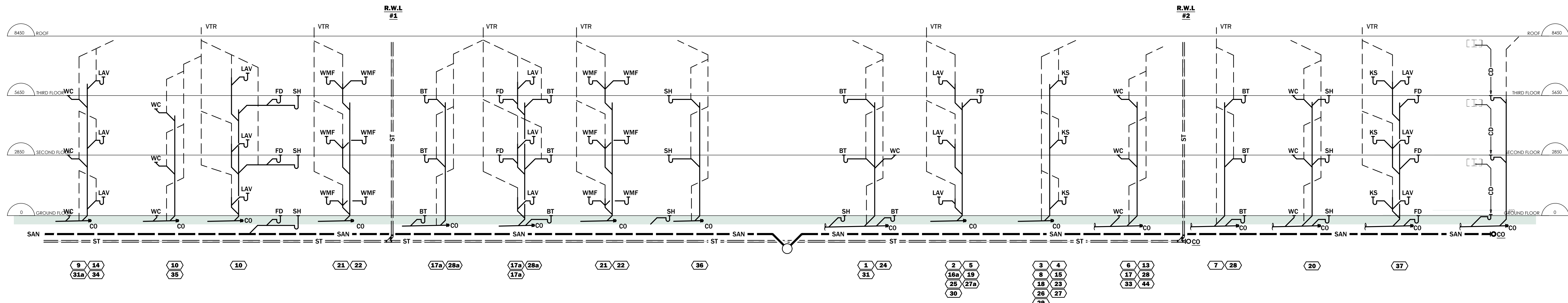
CLIENT

PROJECT TITLE
32 UNIT AFFORDABLE HOUSING APT BLDG
 20 SOUTH STREET, TRENTON
 ONTARIO, CANADA

DRAWING SHEET TITLE
MECHANICAL ROOF PLAN

PROJECT NUMBER 23006	SCALE AS NOTED	DATE APRIL 2023
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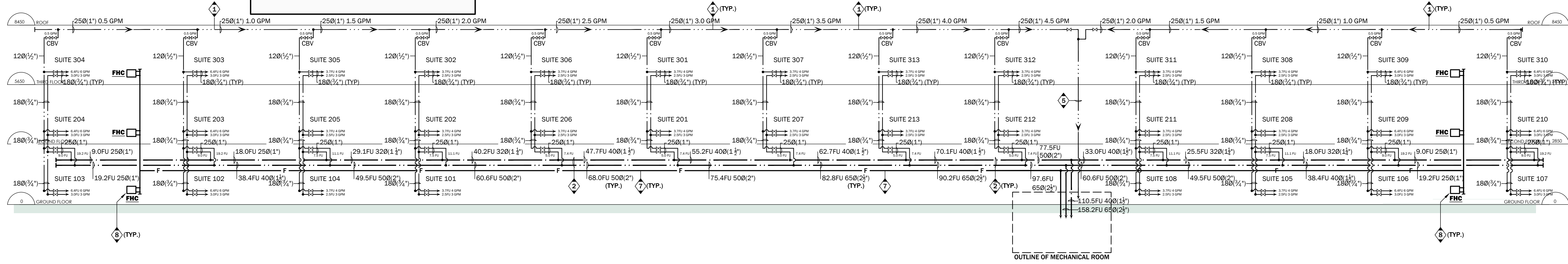
REVIEWED BY jbb
DRAWN BY GG
DRAWING NUMBER M-300



PLUMBING RISER DIAGRAM - SCHEMATIC

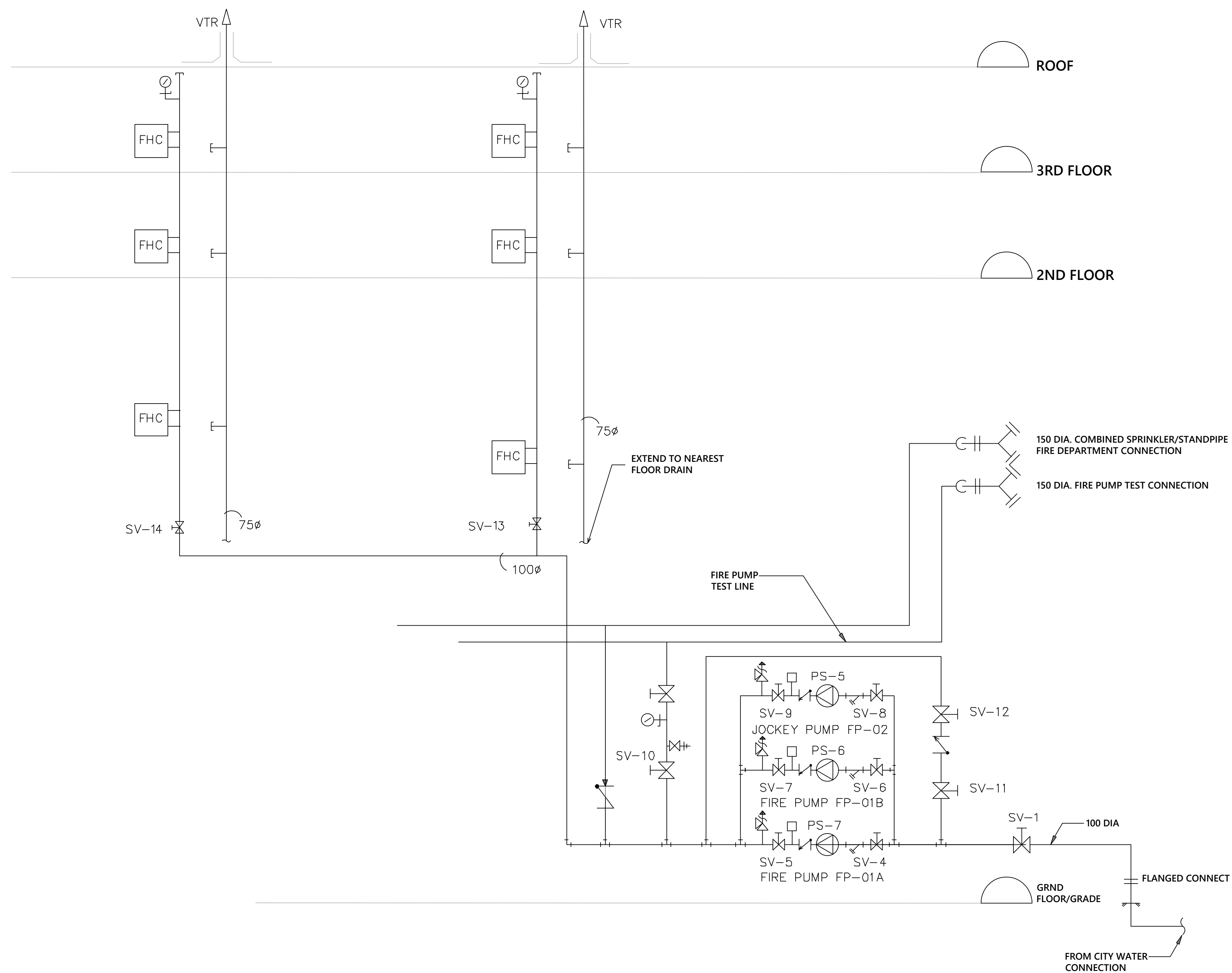
CONDENSATE DRAIN RISER (TYPICAL)

- NOTES:**
- ① HOT WATER RECIRC. MAIN IN CORRIDOR CEILING SPACE.
 - ② HOT & COLD WATER MAIN IN CORRIDOR CEILING SPACE.
 - ③ HOT & COLD WATER RISER C/W SHUT-OFF VALVES AND ACCESS PANEL.
 - ④ HOT & COLD WATER SUPPLIES TO UNIT (TYPICAL).
 - ⑤ HOT WATER RECIRC. MAIN RISER.
 - ⑥
 - ⑦
 - ⑧

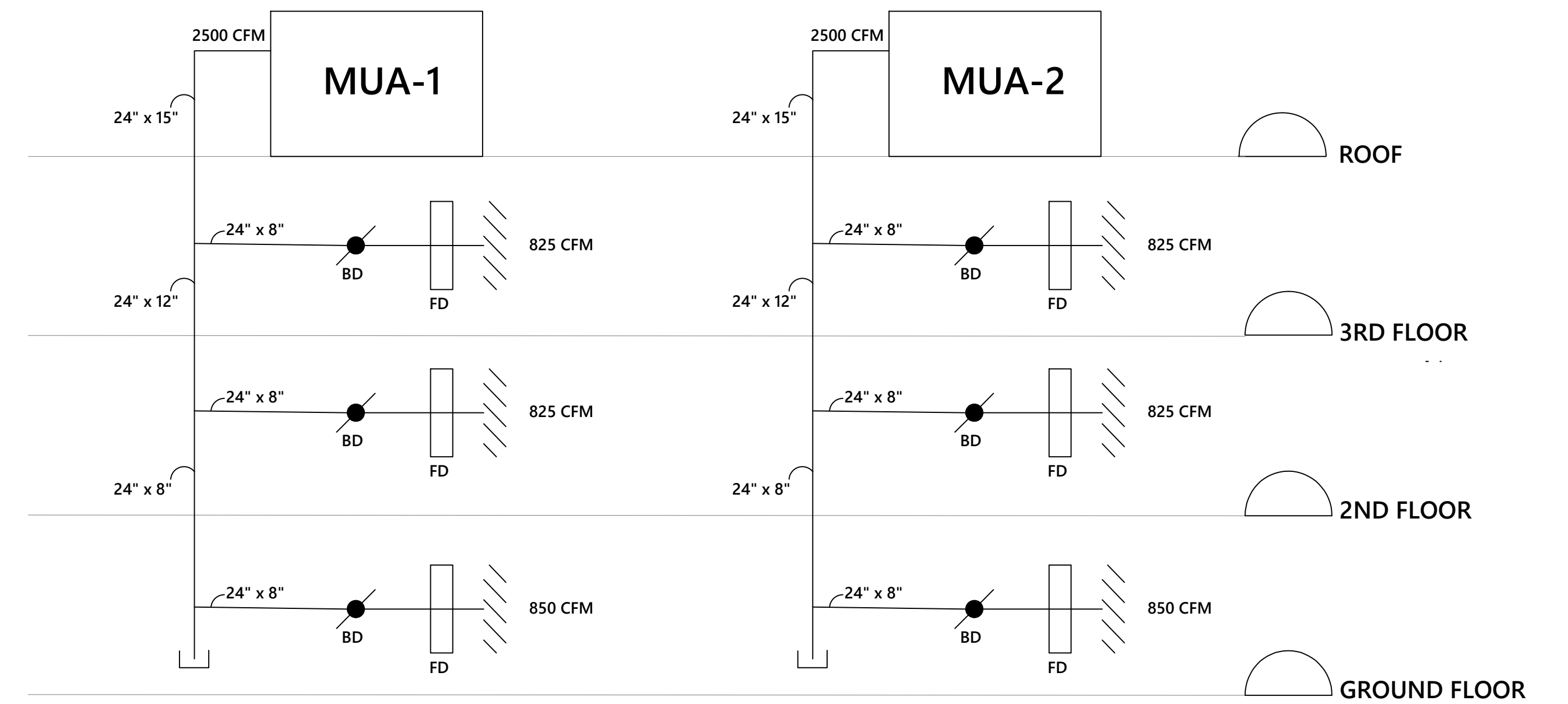


HOT & COLD WATER RISER DIAGRAM - SCHEMATIC

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3 ISSUED FOR COORDINATION JAN. 12/24	# ISSUES DATE	# REVISIONS DATE									



FIRE PROTECTION SCHEMATIC DIAGRAM

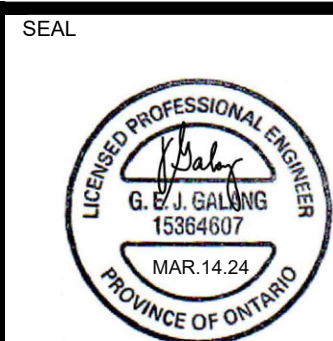


ROOF TOP UNIT (MUA) SCHEMATIC DIAGRAM

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#	REISSUED FOR BUILDING PERMIT	MAR 24/24

REVISIONS DATE



NORTH

CLIENT

PROJECT TITLE

32 UNIT AFFORDABLE HOUSING APT BLDG
 20 SOUTH STREET, TRENTON
 ONTARIO, CANADA

DRAWING SHEET TITLE

SCHEMATIC DIAGRAM

PROJECT NUMBER
23006

SCALE
 AS NOTED

DATE
 APRIL 2023

REVIEWED BY

jbb

DRAWN BY

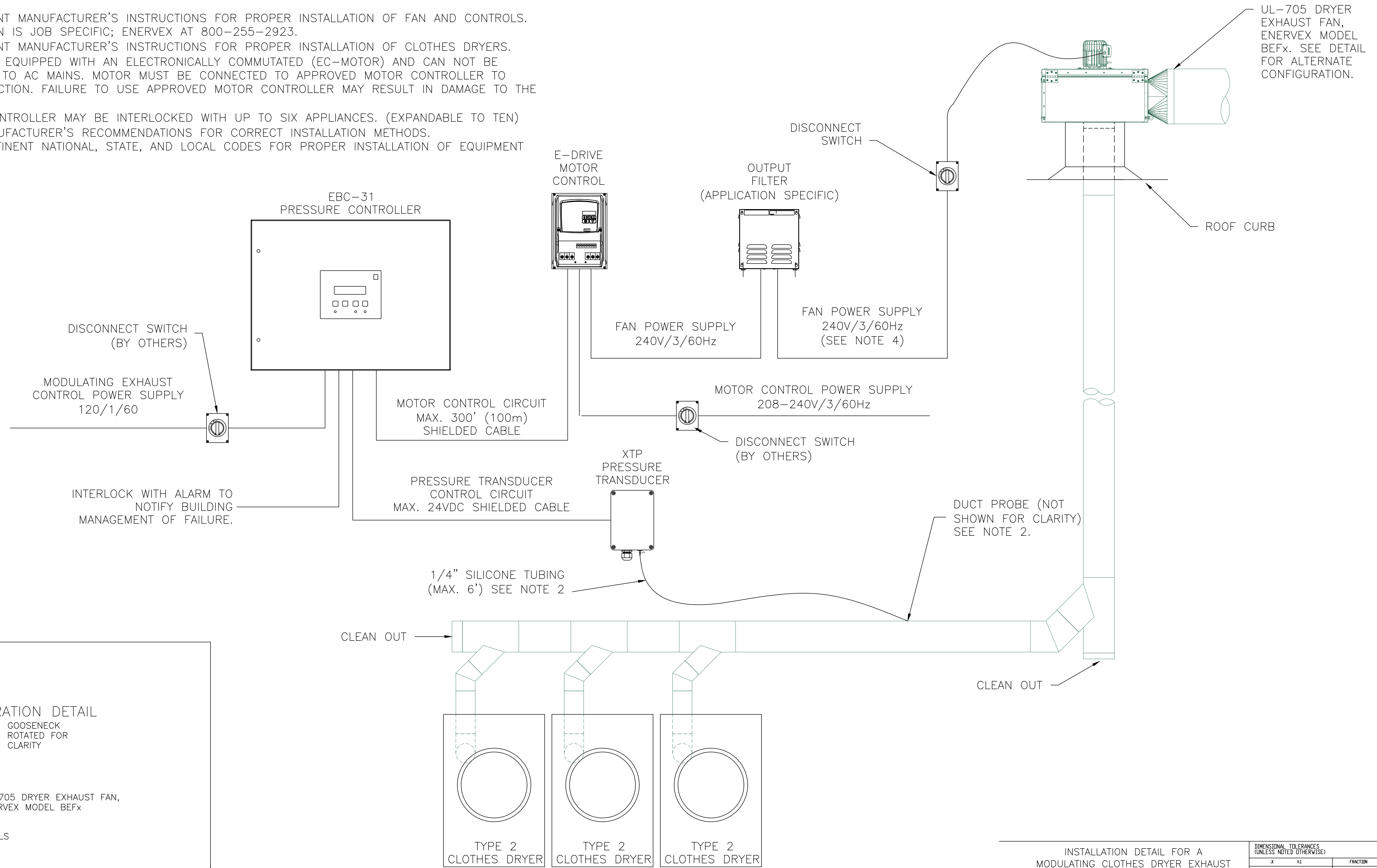
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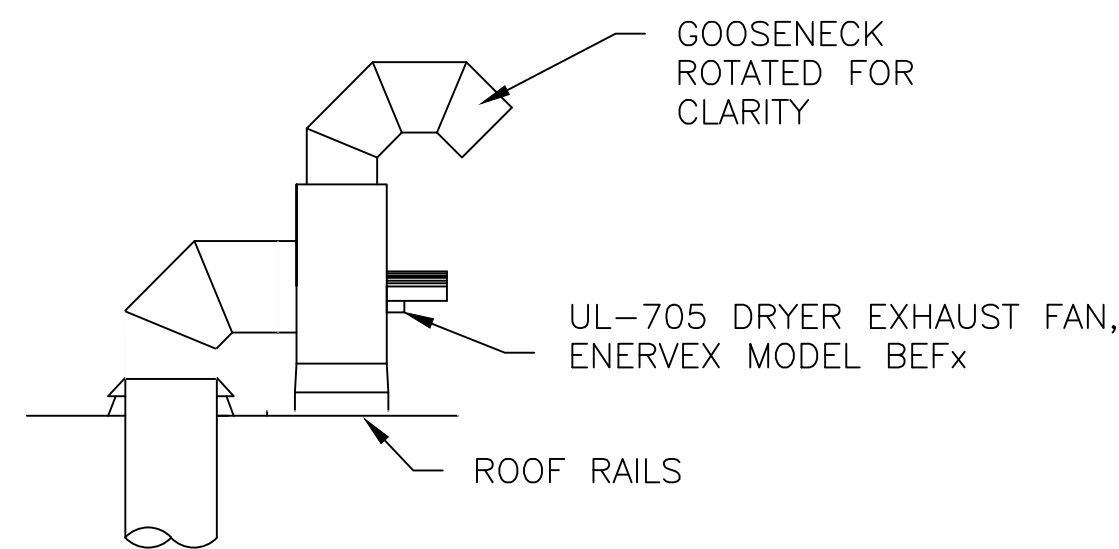
M.450

DRAWING NOTES

1. WIRING INFORMATION IS SUITABLE FOR ENERVEX MDVS315x, MDVS355x, MDVS450x, MDVS500x, MDVS560x OR MDVS630x.
2. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF FAN AND CONTROLS. DUCT PROBE LOCATION IS JOB SPECIFIC; ENERVEX AT 800-255-2923.
3. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF CLOTHES DRYERS.
4. THIS PRODUCT IS EQUIPPED WITH AN ELECTRONICALLY COMMUTATED (EC-MOTOR) AND CAN NOT BE CONNECTED DIRECTLY TO AC MAINS. MOTOR MUST BE CONNECTED TO APPROVED MOTOR CONTROLLER TO ENSURE PROPER FUNCTION. FAILURE TO USE APPROVED MOTOR CONTROLLER MAY RESULT IN DAMAGE TO THE MOTOR.
5. THE PRESSURE CONTROLLER MAY BE INTERLOCKED WITH UP TO SIX APPLIANCES. (EXPANDABLE TO TEN)
6. FOLLOW VENT MANUFACTURER'S RECOMMENDATIONS FOR CORRECT INSTALLATION METHODS.
7. FOLLOW ALL PERTINENT NATIONAL, STATE, AND LOCAL CODES FOR PROPER INSTALLATION OF EQUIPMENT AND MATERIAL.



ALTERNATE CONFIGURATION DETAIL



INSTALLATION DETAIL FOR A
 MODULATING CLOTHES DRYER EXHAUST
 SYSTEM (MDVS315x-630x)
 240V THREE PHASE EBC-31

DIMENSIONAL TOLERANCES (UNLESS NOTED OTHERWISE)			
X	±1	FRACTION	1/16"
XX	±.05	ANGLE	1/2°
XXX	±.005	FINISHES	IZ
SIZE	DRAWING NUMBER	REV	
B		A	

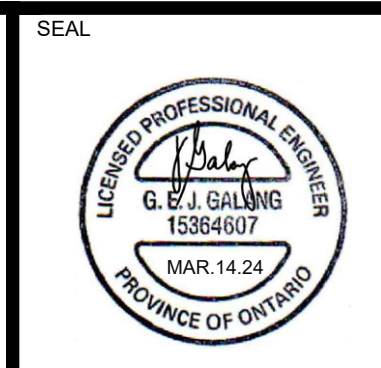
DATE: 10/11/2016

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SEAL NORTH CLIENT

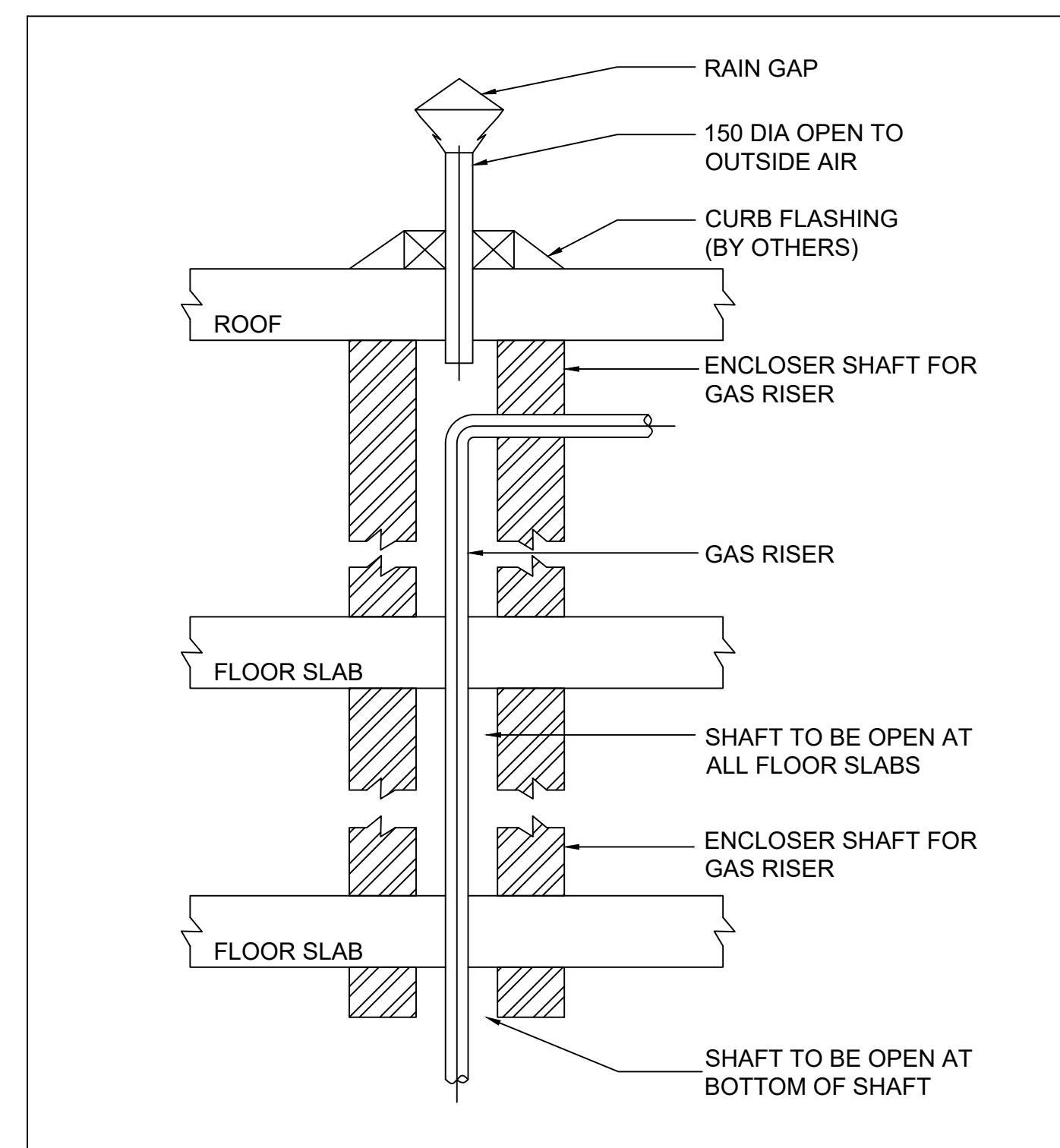
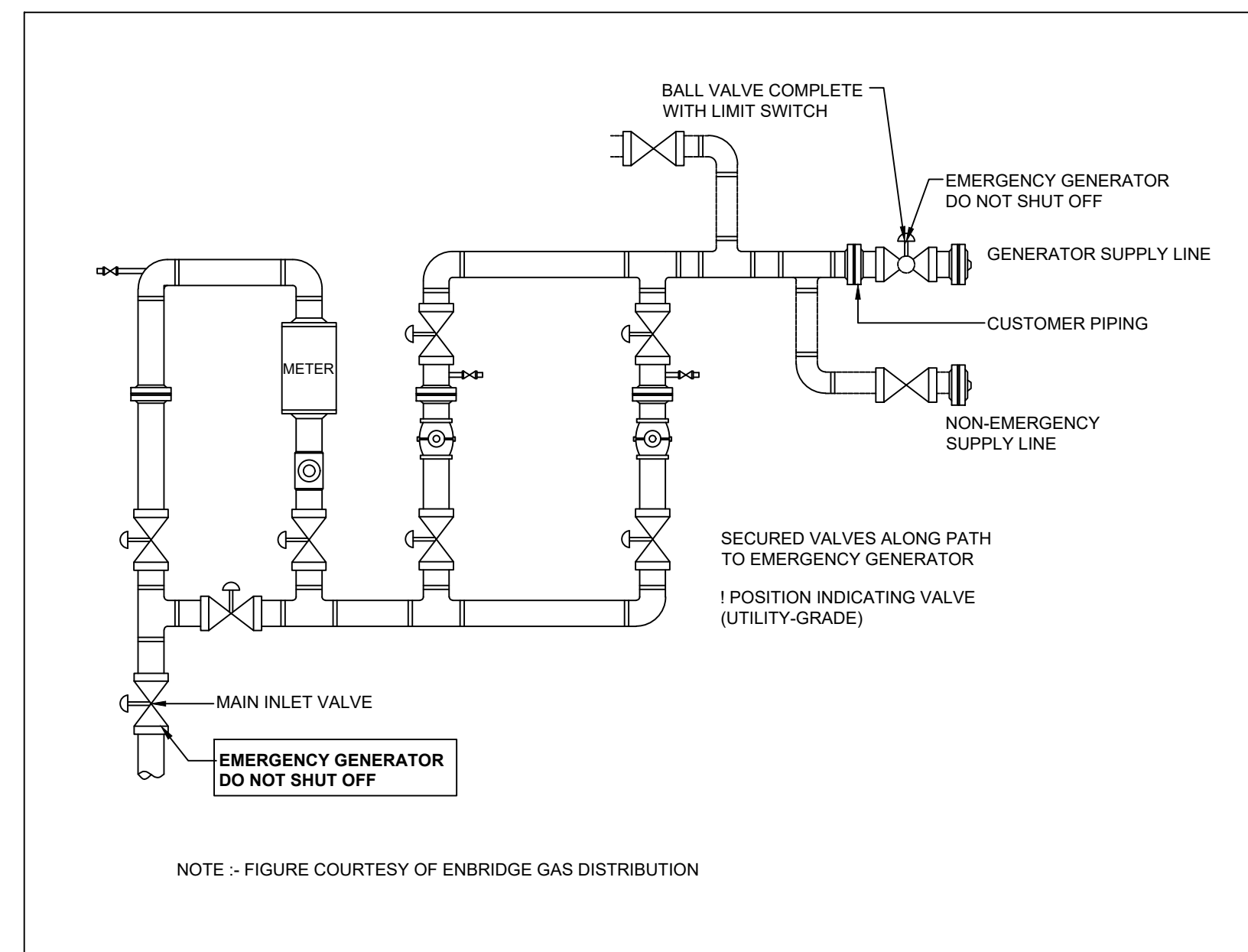
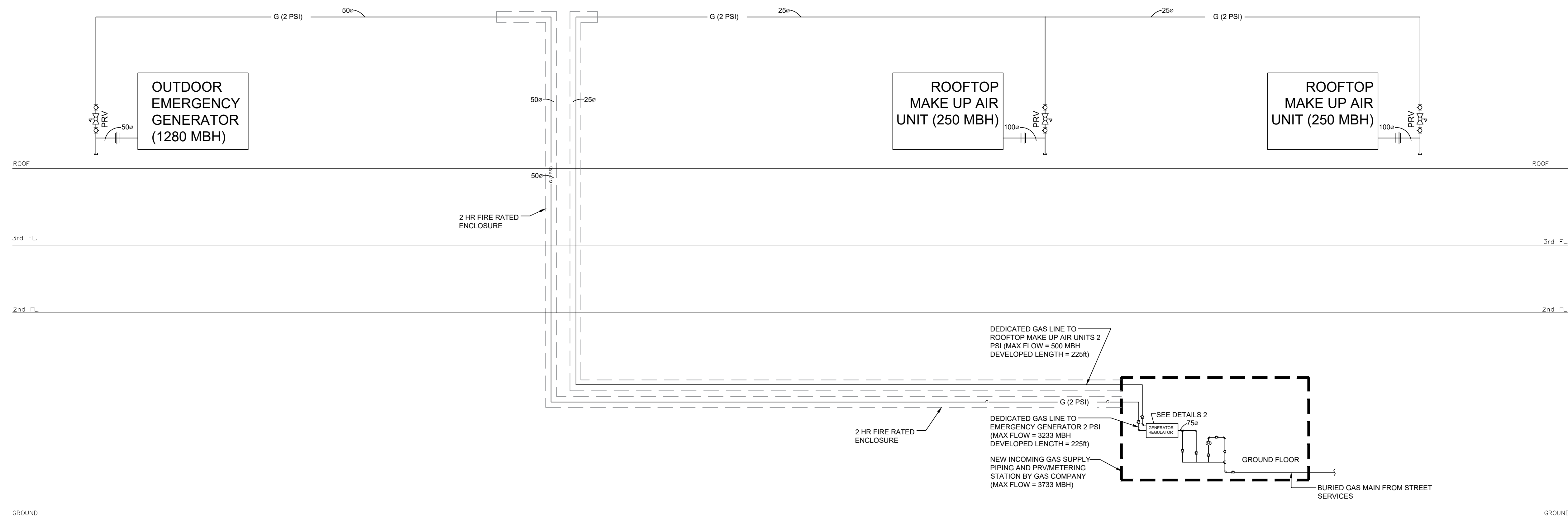
PROJECT TITLE

32 UNIT AFFORDABLE HOUSING APT BLDG
 20 SOUTH STREET, TRENTON
 ONTARIO, CANADA

DRAWING SHEET TITLE
INSTALLATION DETAIL FOR A MODULATING CLOTHES DRYER EXHAUST SYSTEM

PROJECT NUMBER	SCALE	DATE
23006	AS NOTED	APRIL 2023

REVIEWED BY	jbb
DRAWN BY	GG
DRAWING NUMBER	M.451

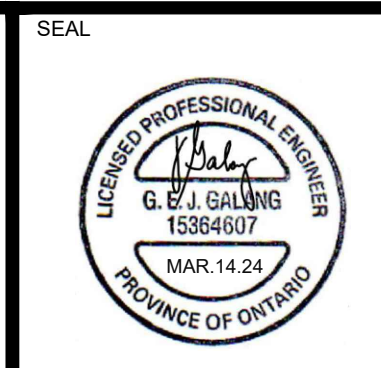


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NORTH



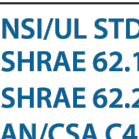
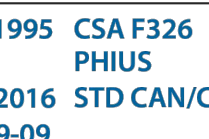


CLIENT

PROJECT TITLE
32 UNIT AFFORDABLE HOUSING APT BLDG
 20 SOUTH STREET, TRENTON
 ONTARIO, CANADA

DRAWING SHEET TITLE GAS RISER SCHEMATIC		
PROJECT NUMBER 23006	SCALE AS NOTED	DATE APRIL 2023

REVIEWED BY jbb
DRAWN BY GG
DRAWING NUMBER M.452

CERTIFICATIONS AND COMPLIANCE

SPECIFICATIONS

PentaCare V12^o Compact Air Treatment Unit

VENTILATION/AIR EXCHANGE MODE: ENERGY PERFORMANCE

CAN/CSA-C439-09 Standard, results tested and verified by Exova and certified by HVI	Sensible Recovery Efficiency (SRE) "When all electricity is deducted"	Adjusted Sensible Recovery Efficiency (ASRE) "Mostly used by PHIUS"	Apparent Sensible Effectiveness (ASE) "A.K.A. the thermal efficiency"
Certified + published online by HVI	YES	YES	No more published
Lab results from Exova Lab	YES	YES	YES

HEAT RECOVERY PERFORMANCE (fresh air from outside)

"F	"C	CFM	m ³ /h	%	%	%
32	0	100	170	116	119	178
32	0	248	421	87	94	112
-13	-25	100	170	72	74	98

CFM = Cubic Feet per Minute m³/h = Cubic meter per Hour

MOISTURE REMOVAL (calculated using AHAM DH-1 Protocol)

Test conditions	Gallons per day	Pints per day	Liters per day
Outdoor 80°F/60% RH Indoor 80°F/60% RH Airflow @ 180 CFM (in Cooling)	14	112	53

COOLING + HEATING IN RECIRCULATION (Calculated using AHRI 210/240 Protocol)

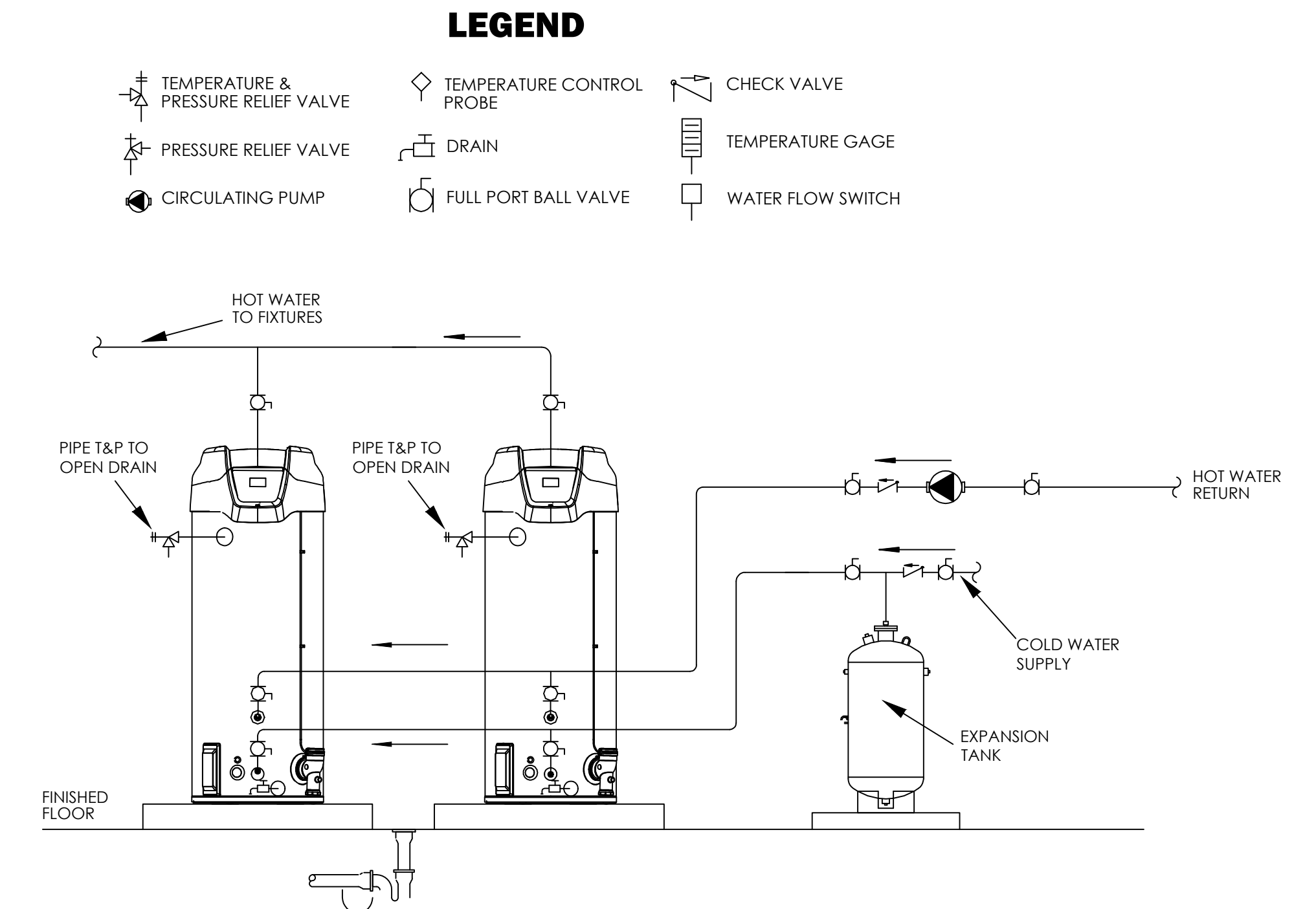
Heat pump heating test conditions	BTU/H	COP	HSPF					
			Reg. I	Reg. II	Reg. III	Reg. IV	Reg. V	Reg. VI
Outdoor 47°F/43°F Indoor 70°F/60°F Airflow 250 CFM, 1 H ₂ O	8700	3.0						
Outdoor 35°F/33°F Indoor 70°F/60°F Airflow 250 CFM, 1 H ₂ O	6700	2.7	10.6	10.4	10.0	9.5	8.6	10.4
Outdoor 17°F/15°F Indoor 70°F/60°F Airflow 250 CFM, 1 H ₂ O	5600	2.4						
Heat pump cooling test conditions	BTU/H	EER	SEER					
Outdoor 95°F/75°F Indoor 80°F/67°F Airflow 250 CFM, 1 H ₂ O	11200	11.6	14.1					
Outdoor 82°F/65°F Indoor 80°F/67°F Airflow 250 CFM, 1 H ₂ O	11500	13.4						

SOUND PRESSURE LEVELS (SPL)
(Measured 3.28 ft (1 m) away)

Test conditions with compressor ON and fully ducted	SPL
100 CFM @ 0.2 H ₂ O	35 dB(A)
150 CFM @ 0.3 H ₂ O	37 dB(A)
180 CFM @ 0.4 H ₂ O	39 dB(A)
250 CFM @ 0.7 H ₂ O	43 dB(A)

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INFO@MINOTAIR.COM
TOLL FREE: 1.855.888.2292
HEAD OFFICE: 1.819.777.2454

Electrical Specifications				Electronically Commutated Motor Fans (x2)		Fresh Air Range	Hermetic Rotary Compressor	Refrigerant		
Tension	Phase/Hz	Circuit	Breaker	Power	FLA	ASHRAE 62.2 & CSA F326 Compliant	Power	RLA	LRA	
120 V	1/60	12.3 A	15 A	136 W max.	2 A	80-250 CFM ± 9%	725 W	6.6 A	39 A	R-410A
Coils Filters rating		High Efficiency Filter rating	Casing	Color	Round Ports (x4)					
MERV 8 (EN G4)		HEPA MERV 15 (EN F9)	100% Aluminium	Glossy White	ø 6-8 in (150-200 mm)					

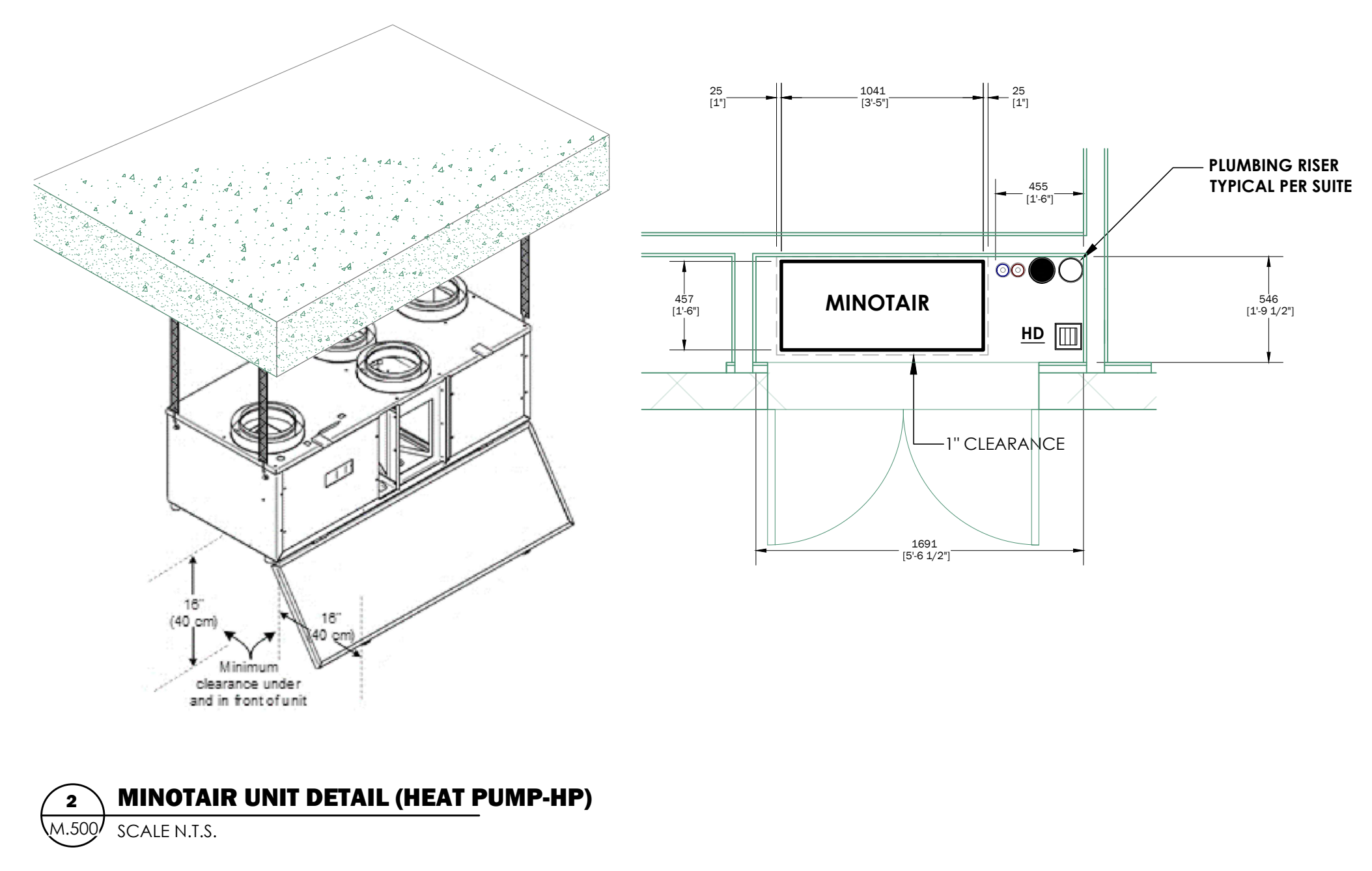


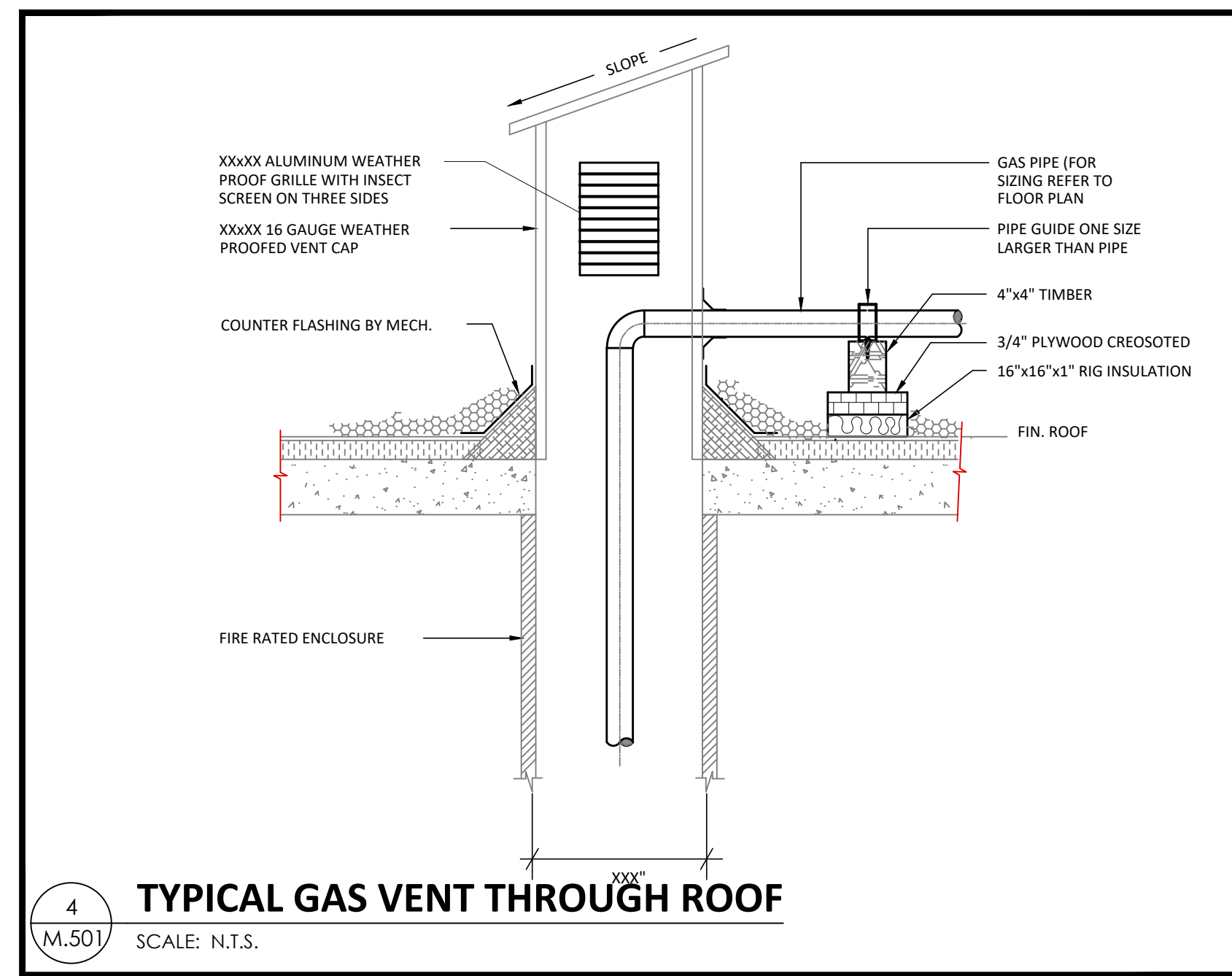
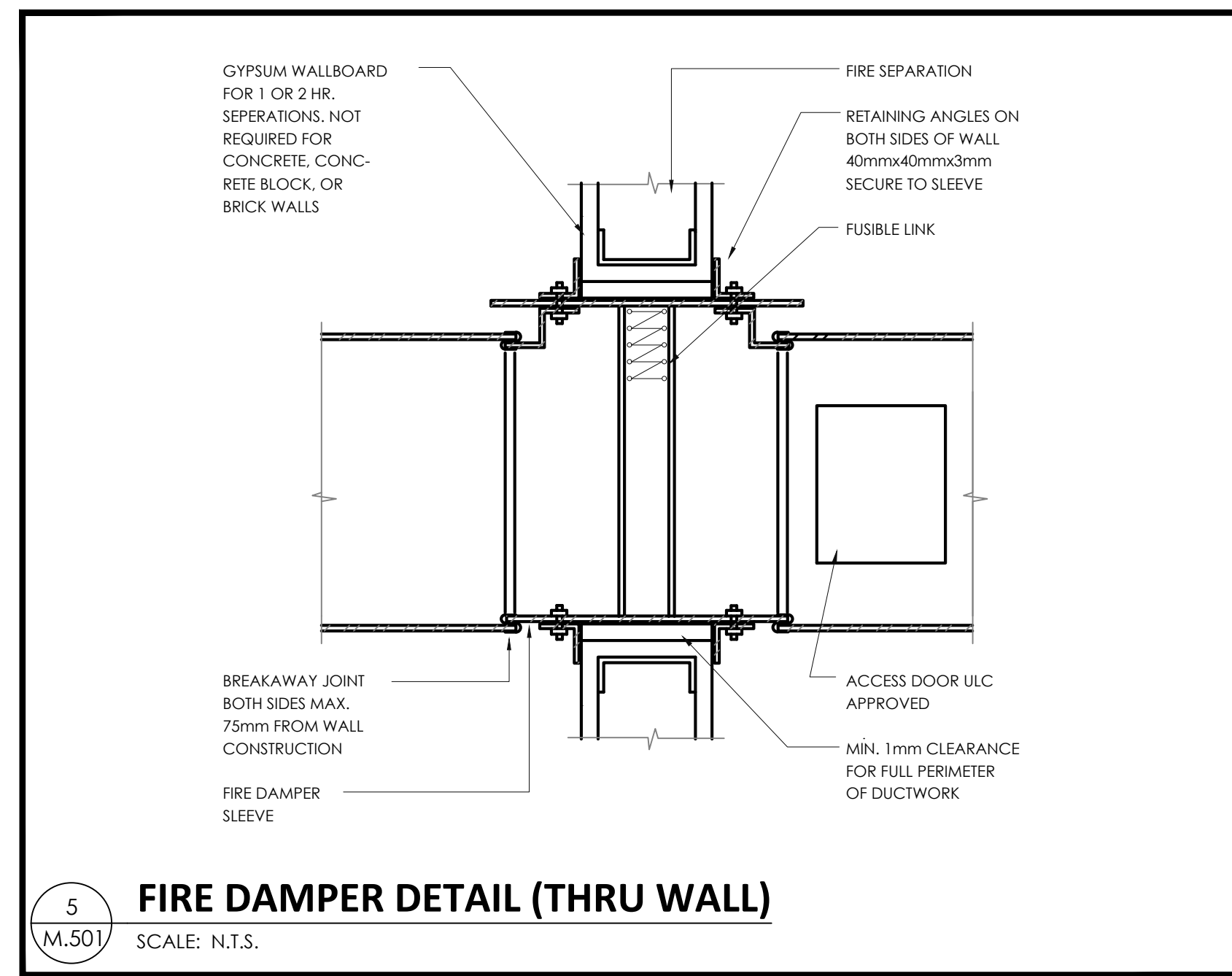
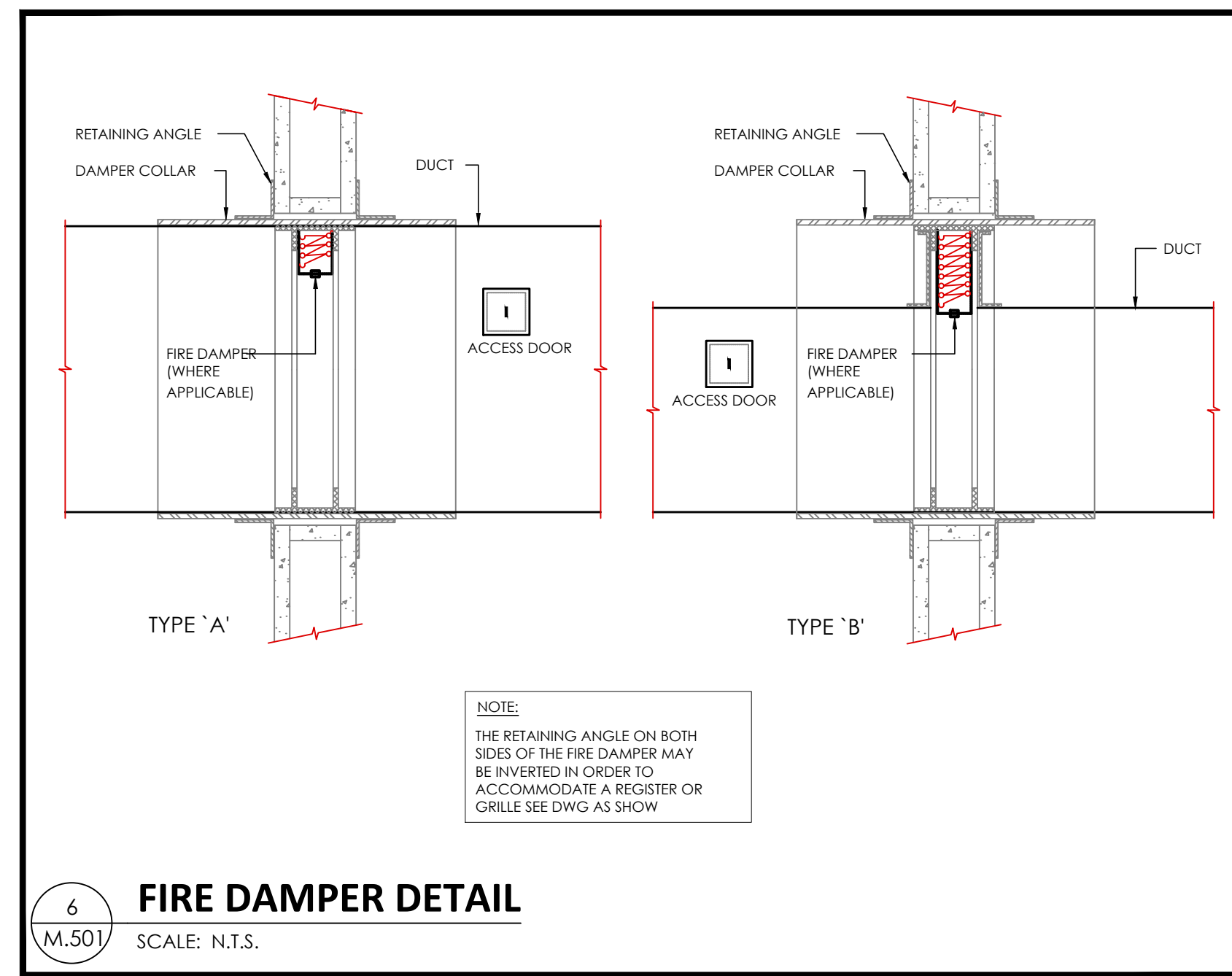
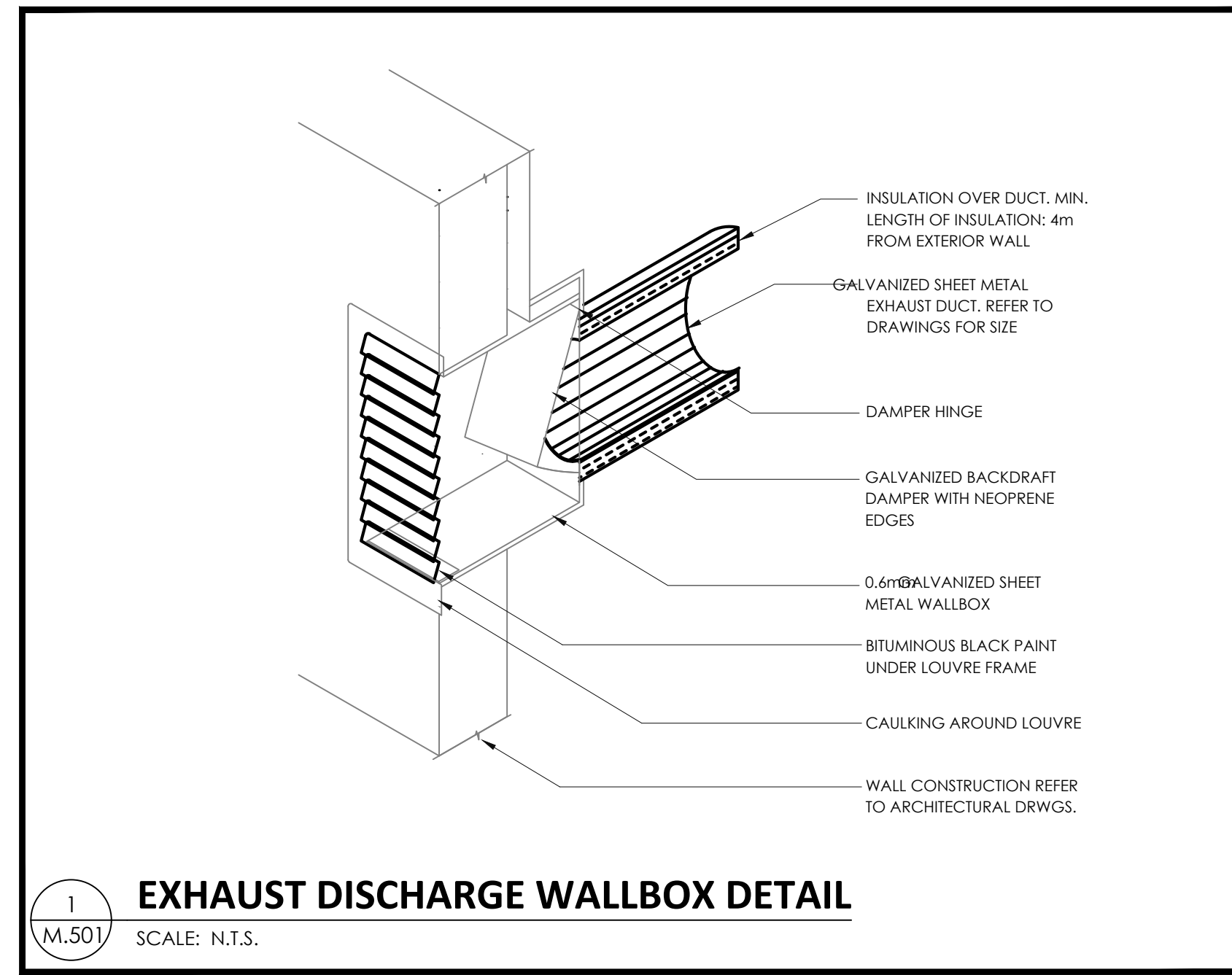
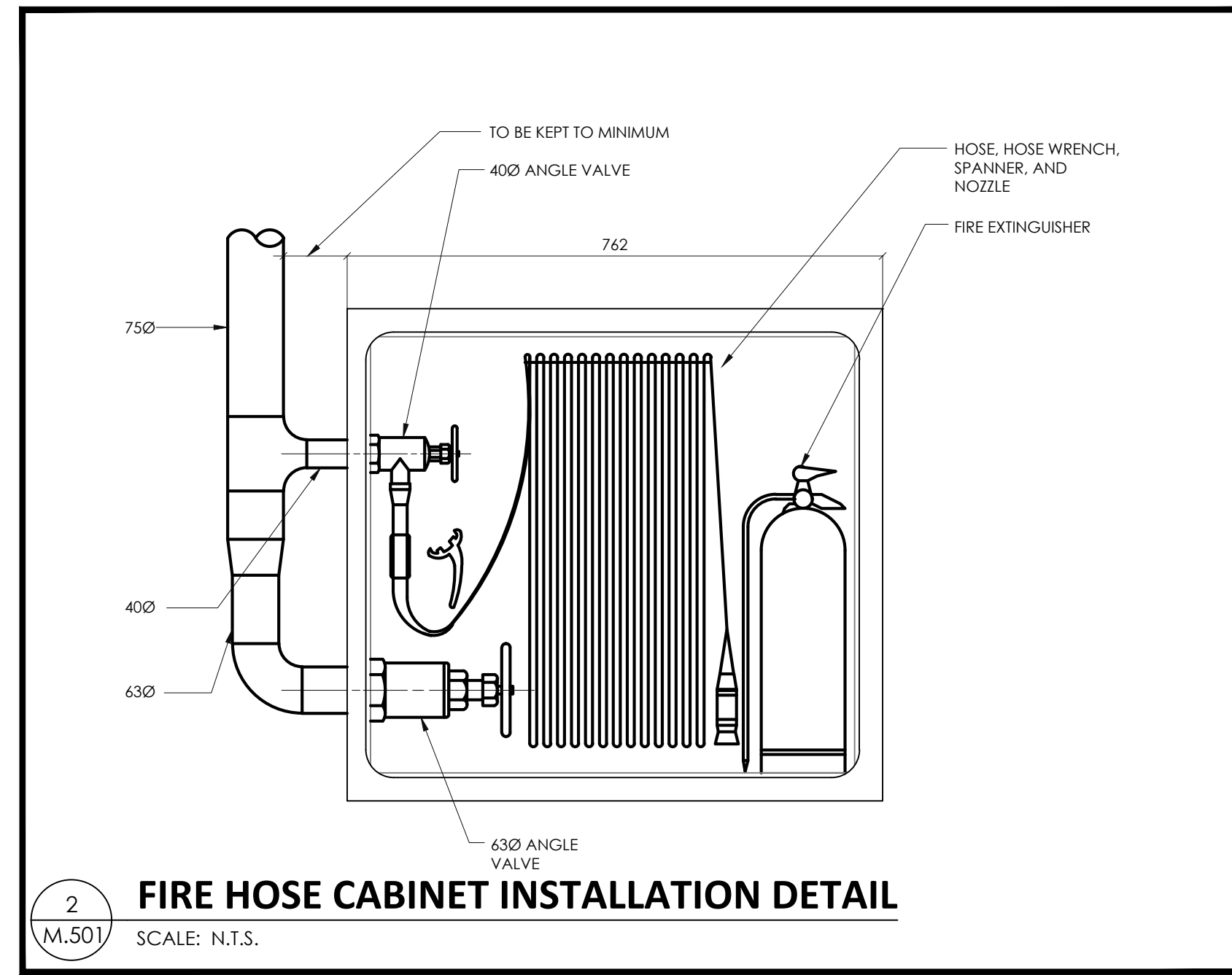
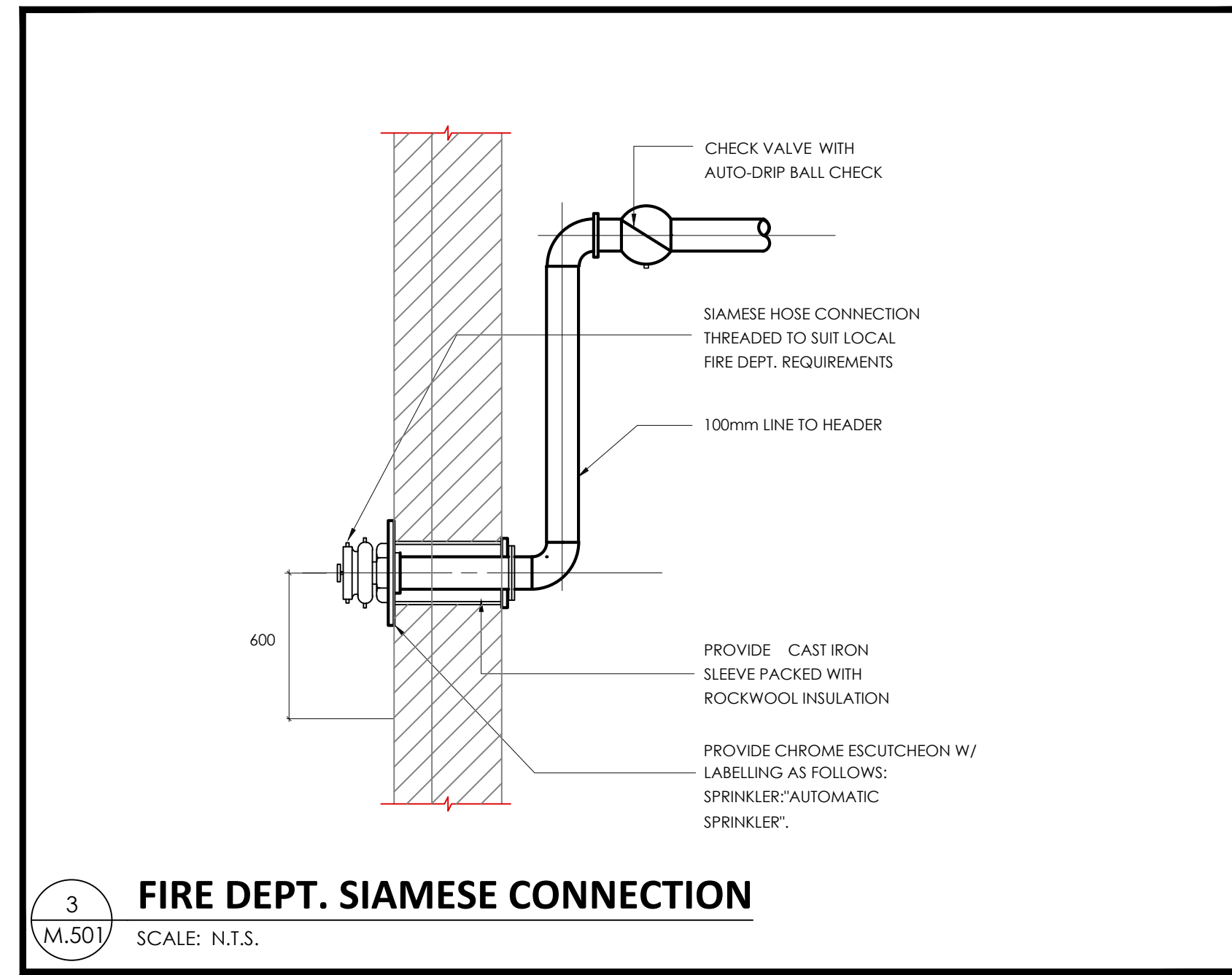
- NOTES:
1. Preferred piping method.
 2. The temperature and pressure relief valve setting shall not exceed pressure rating of any component in the system.
 3. Service valves are shown for servicing unit.

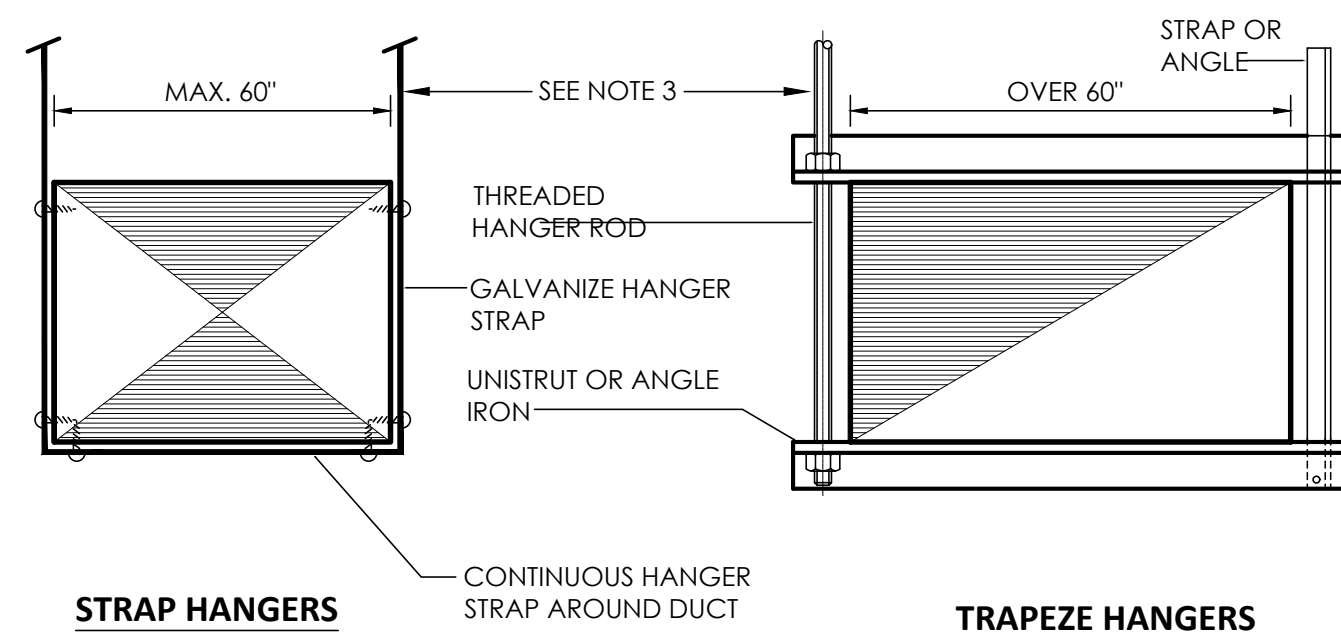
SPECIFICATION

The heater shall be a glass-lined Custom XT™ commercial electric model No. DSE-120-90 with 120 gallons storage, as manufactured by A. O. Smith. Heater should be rated at 90 kW, 500 volts, 3 phase, 50/60 cycle AC and constructed in accordance with ASME Code, shall bear appropriate symbol and be listed with the National Board as required. Heater shall be listed with Underwriters' Laboratories and eListed to The National Sanitation Foundation Standard No. 5. All internal surfaces of the tank shall be glass-lined with an alkaline borosilicate composition that has been fused-to-strength at a temperature of 1600°F. Tank shall be cathodically protected with a combination of sacrificial and powered anodes. The entire vessel is to be enclosed in a round steel enclosure with baked enamel finish. Water heater shall have an electronic control with large LCD displaying current water heater status; provide real time element status and sensing, low water cutoff and economy mode operation. Shall have 120 volt control circuit transformer, transformer fusing, magnetic contactor(s), element fusing per N.E.C., and commercial grade Incoloy elements. Temperature controls include limiting switch which will require resetting manually in the event the temperature reaches 202°F. Foam insulation shall meet the thermal efficiency and/or standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IES 90.1. Heater shall include a CSA Certified and ASME Rated T&P relief valve and a drain valve. Water heater unit(s) shall be compatible with building management systems using Modbus or BACnet with optional ICC interface.

1 ELECTRIC WATER HEATER DETAIL
SCALE N.T.S.



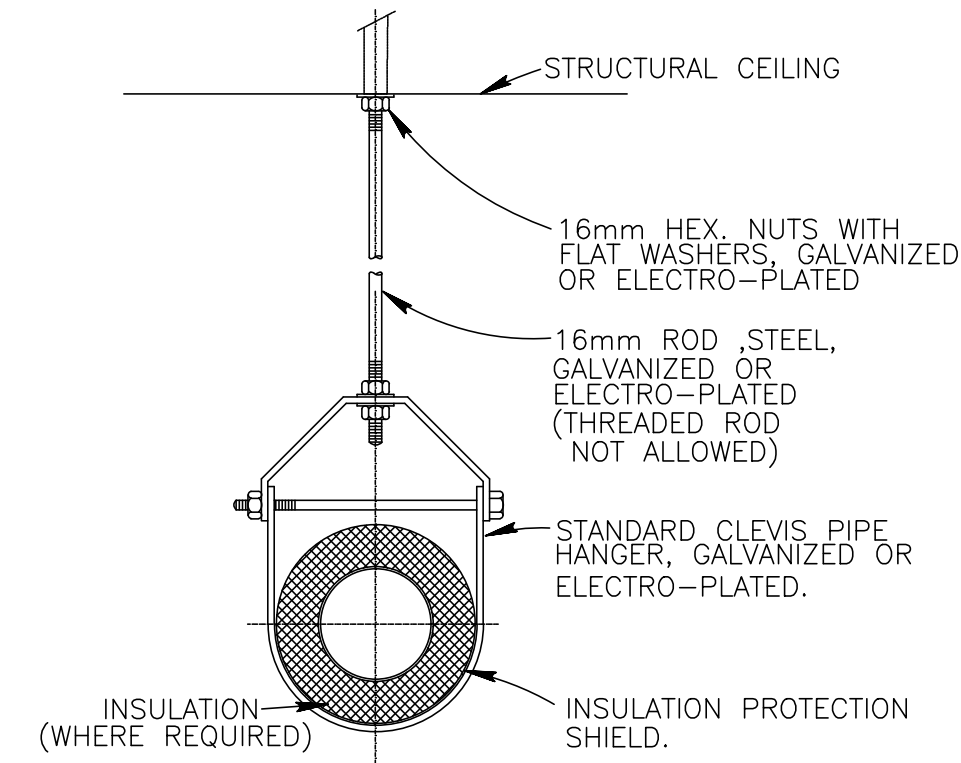




- NOTES:**
- ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
 - CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
 - SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA.
 - REFER TO SMACNA FOR SPECIFIC RECOMMENDED HANGER TYPES NOTED ABOVE.

3 **DUCT HANGER SUPPORT DETAIL**
SCALE: N.T.S.

- NOTES:**
- SEE SPECIFICATIONS ON M1 & M2.
 - USE PIPE HANGERS FOR THE NEW INSTALLATION OF ALL PIPING SERVICES.



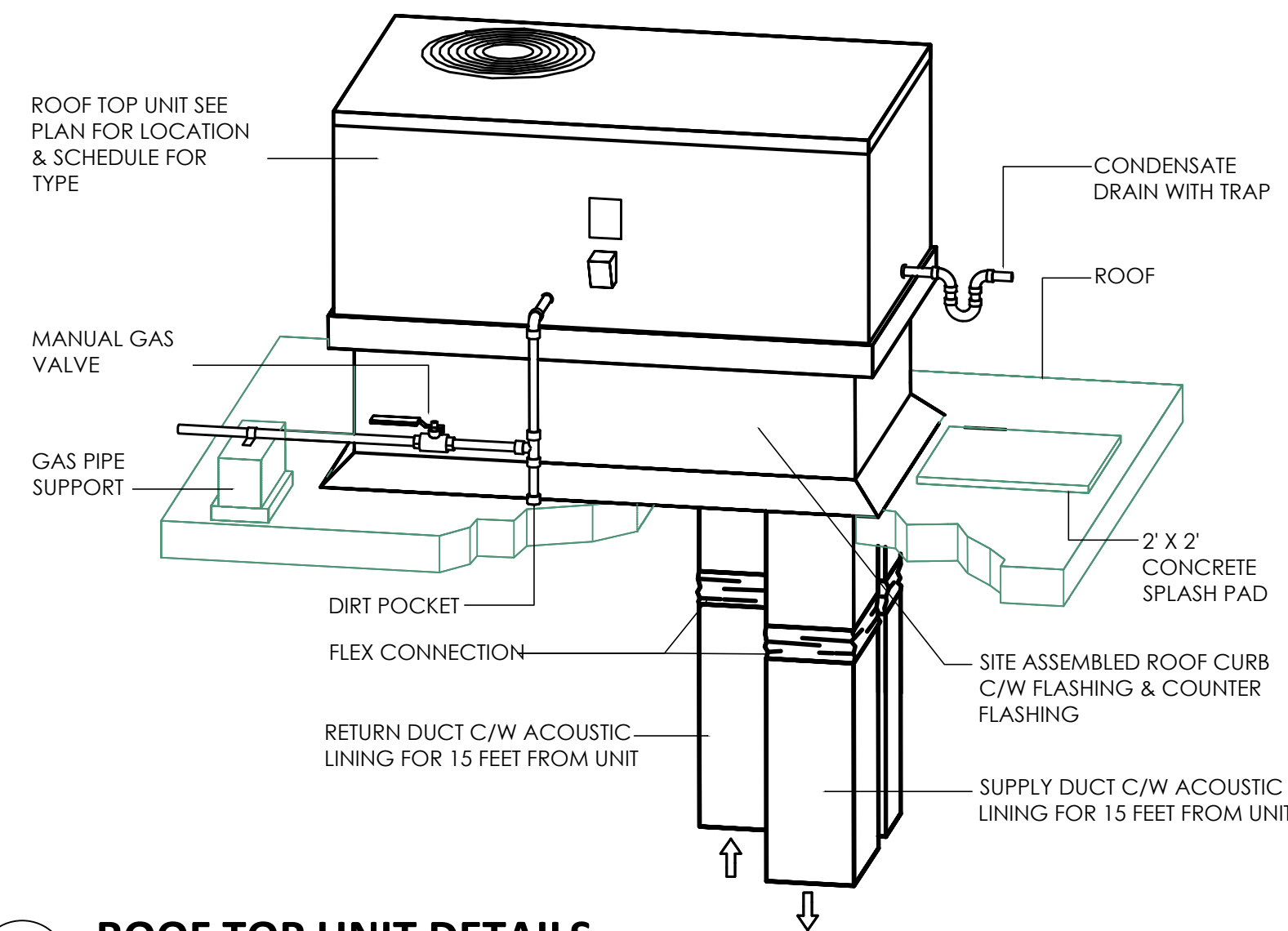
2 **PIPE HANGER**
SCALE: N.T.S.

THERMAL INSULATION SCHEDULE

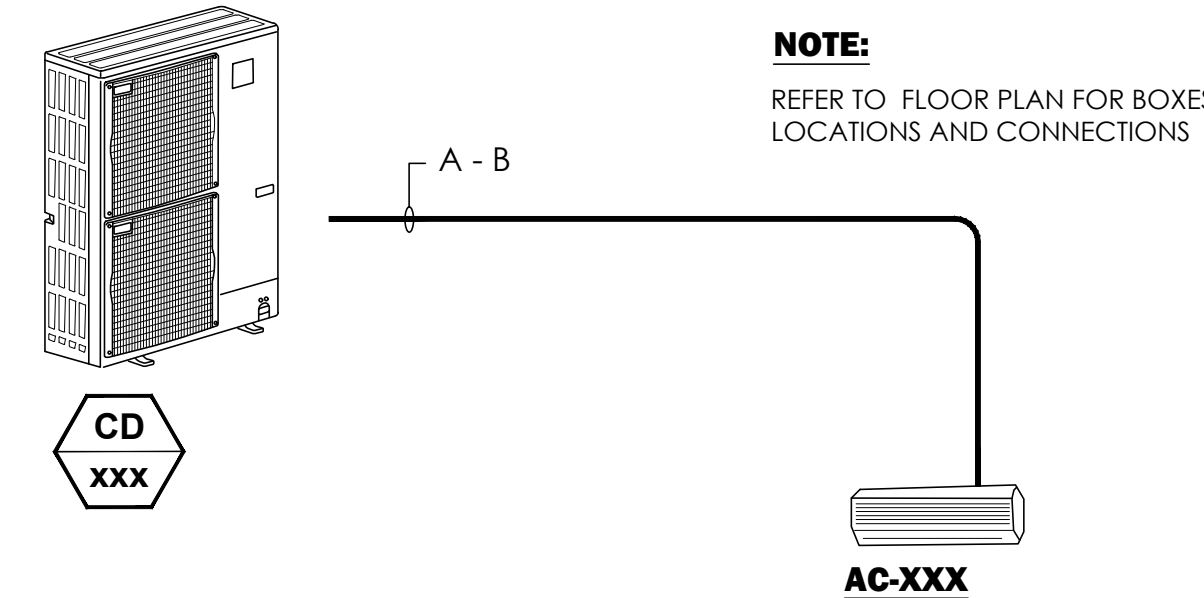
SERVICE	LOCATION	THICKNESS	VAPOUR BARRIER	COVERING
DOMESTIC COLD WATER	EXPOSED	25mm	YES	CANVAS WRAP
	CONCEALED	25mm	YES	ASJ
STEAM & CONDENSATE	EXPOSED	50mm	NO	CANVAS WRAP
	CONCEALED	50mm	NO	CANVAS WRAP
SUPPLY AIR DUCTWORK INCLUDING FRESH AIR DUCTWORK ABOVE CEILING	EXPOSED	25mm	YES	CANVAS WRAP
RETURN AIR DUCTWORK - IN MECH. ROOM & NON CONDITIONED AREAS	EXPOSED	25mm	N/A	RFFRK FACED
HUMIDIFIER STEAM DISPERSION AND DRAIN PIPING	EXPOSED	25mm	NO	CANVAS WRAP
	CONCEALED	25mm	NO	ASJ
SAN. DRAIN LINES	EXPOSED	25mm	YES	CANVAS WRAP
	CONCEALED	25mm	YES	ASJ
COLD EQUIPMENT DRAIN	EXPOSED	25mm	YES	CANVAS WRAP
REFRIGERANT PIPING	CONCEALED	25mm	YES	ASJ

SEE SPECIFICATIONS ON DRAWING M2 FOR ADDITIONAL INFORMATION ON THERMAL INSULATION

1 **THERMAL INSULATION SCHEDULE**
SCALE: N.T.S.



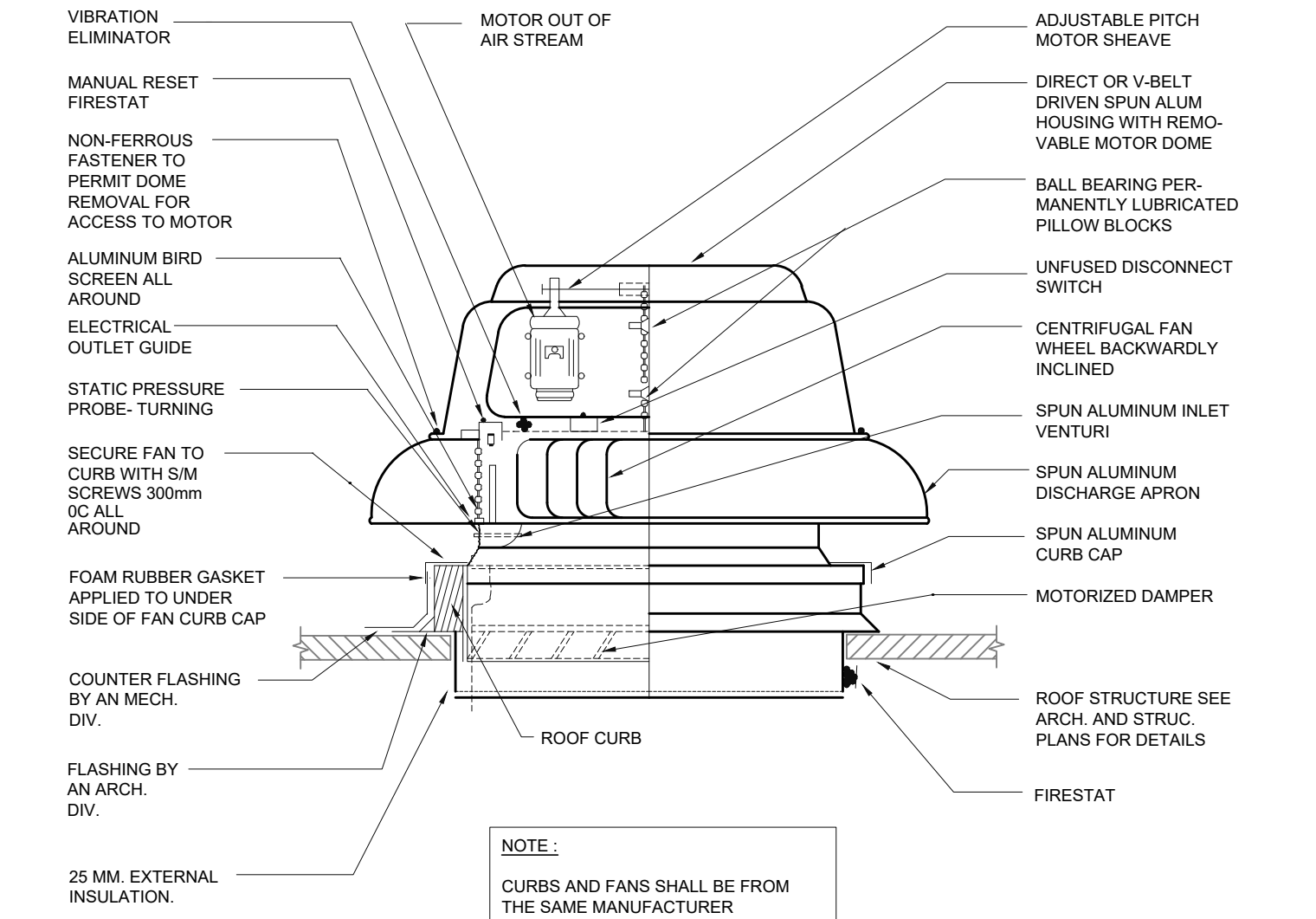
6 **ROOF TOP UNIT DETAILS**
SCALE: N.T.S.



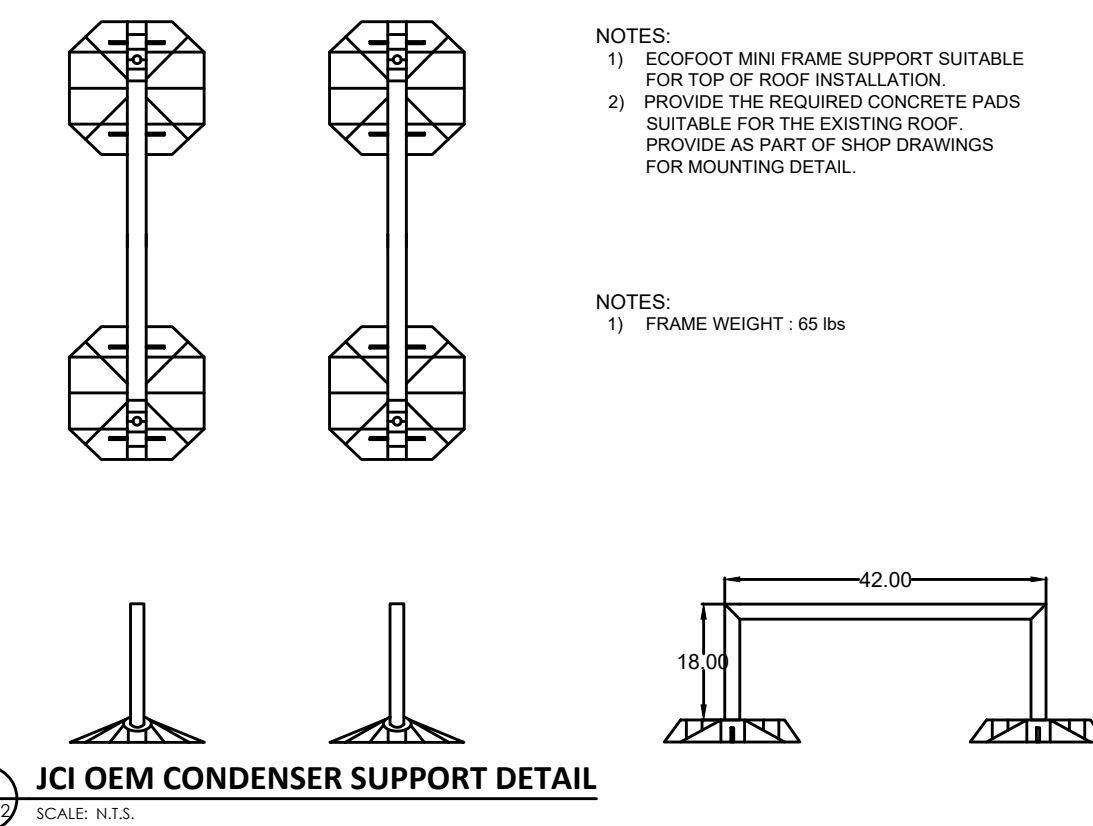
PIPING CONNECTION SIZE

	A	B
LIQUID	9.52Ø MM (3/8")	PIPING CONNECTION SIZE DIFFERS ACCORDINGLY TO THE TYPE AND CAPACITY OF INDOOR UNITS. NATCH THE PIPING CONNECTION SIZE OF BRANCH BOX WITH INDOOR UNIT. IF THE PIPING CONNECTION SIZE OF THE BRANCH BOX DOES NOT MATCH THE PIPING CONNECTION SIZE OF THE INDOOR UNIT, USE OPTIONAL DIFFERENT-DIAMETER (DEFORMED) JOINTS TO THE BRANCH BOX SIDE. (CONNECT DEFORMED JOINT DIRECTLY TO THE BRANCH BOX SIDE)
GAS	15.88Ø MM (5/8")	

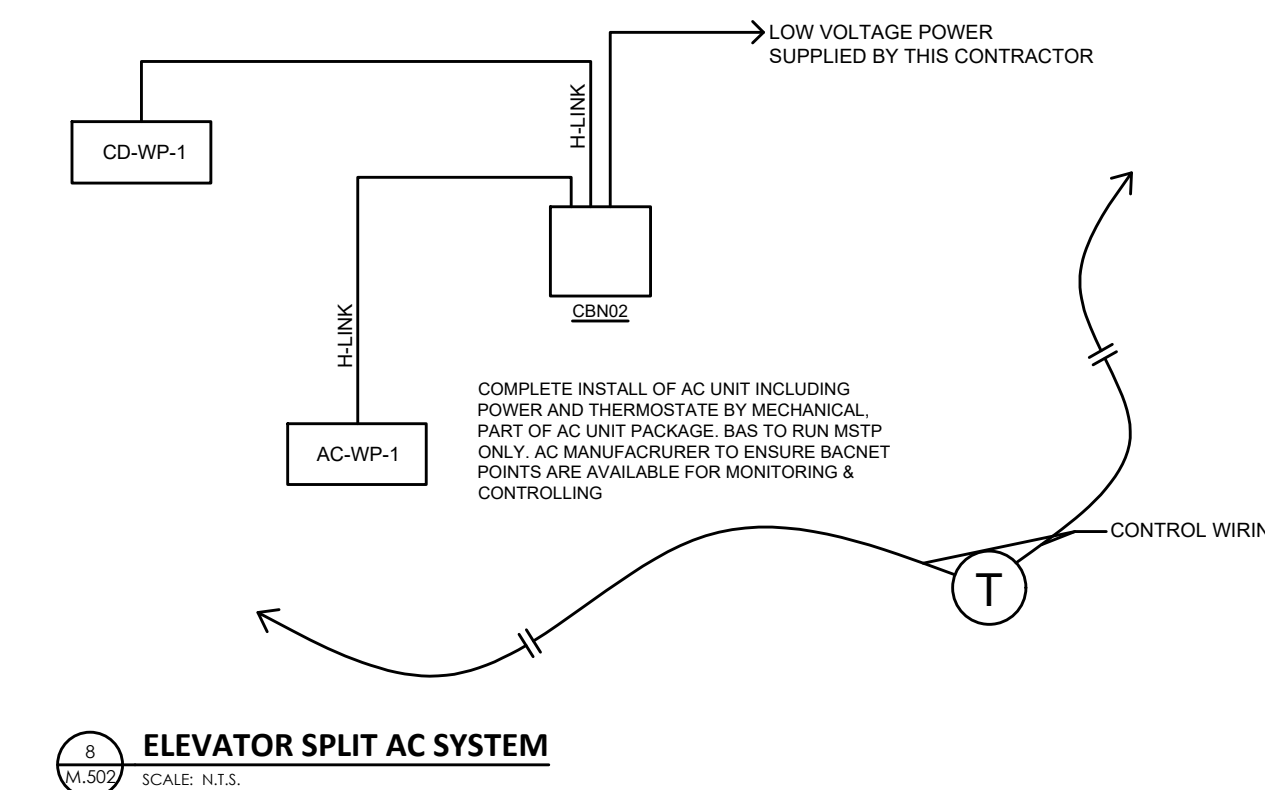
5 **SCHEMATIC DIAGRAM AIR CONDITIONING UNIT**
SCALE: N.T.S.



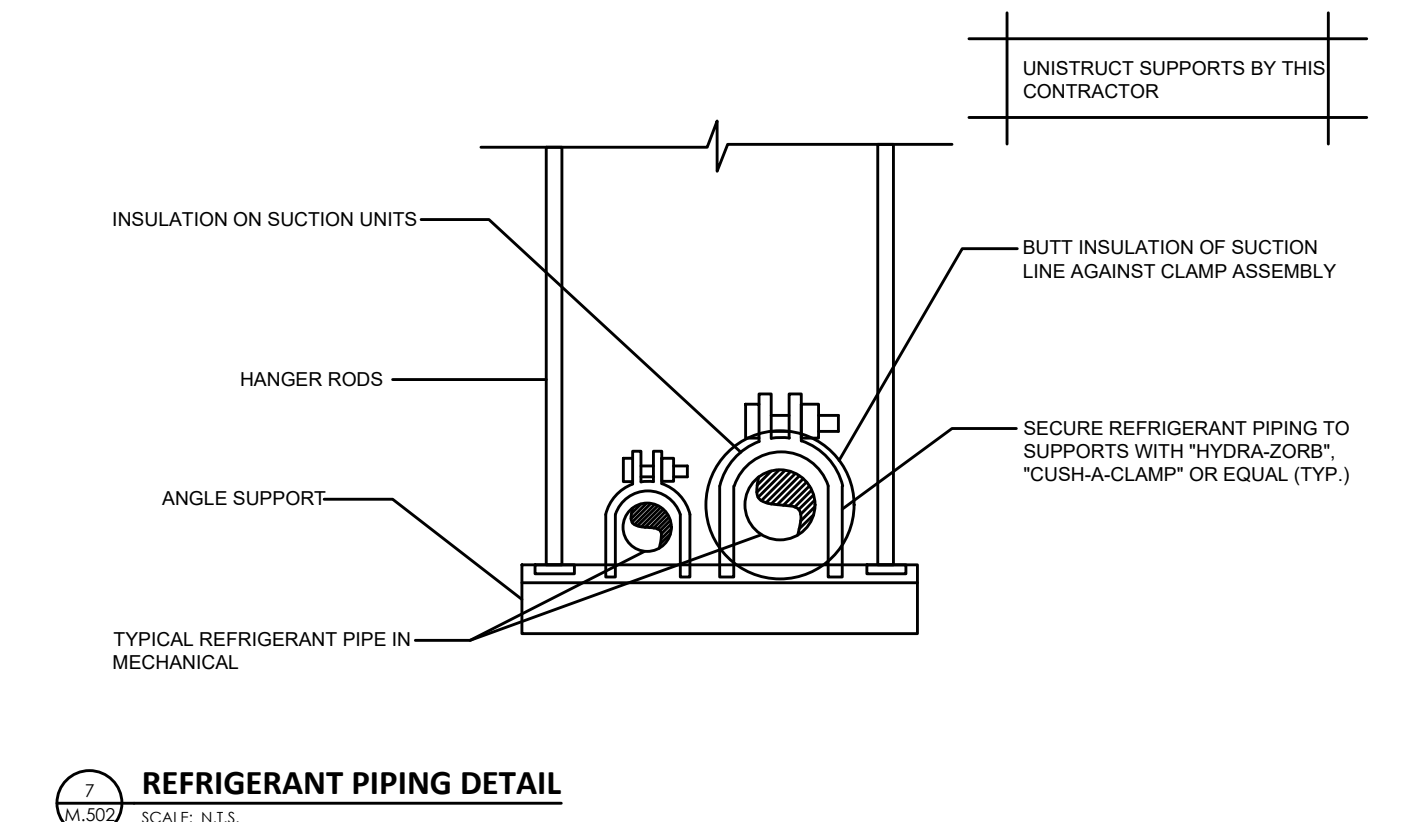
4 **ROOF MTG. CENTRIFUGAL EXHAUST FAN**
SCALE: N.T.S.



9 **JCI OEM CONDENSER SUPPORT DETAIL**
SCALE: N.T.S.



8 **ELEVATOR SPLIT AC SYSTEM**
SCALE: N.T.S.



7 **REFRIGERANT PIPING DETAIL**
SCALE: N.T.S.

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6	REISSUED FOR TENDER	JUL 31/24
5	ISSUED FOR TENDER	JUL 12/24
4	ISSUED FOR TENDER	JUN 28/24
3	REISSUED FOR BUILDING PERMIT	JUN 24/24
2	ISSUED FOR TENDER	APR 08/24
#	REISSUED FOR BUILDING PERMIT	MAR 20/24

REVISIONS DATE

Galang Consulting Services
2275 Lake Shore Blvd. W., Suite 315 Toronto, ON M8V 3Y3 Canada
e: gci.galang@gcsengineering.ca t: 416-521-9700 c: 647-909-9899

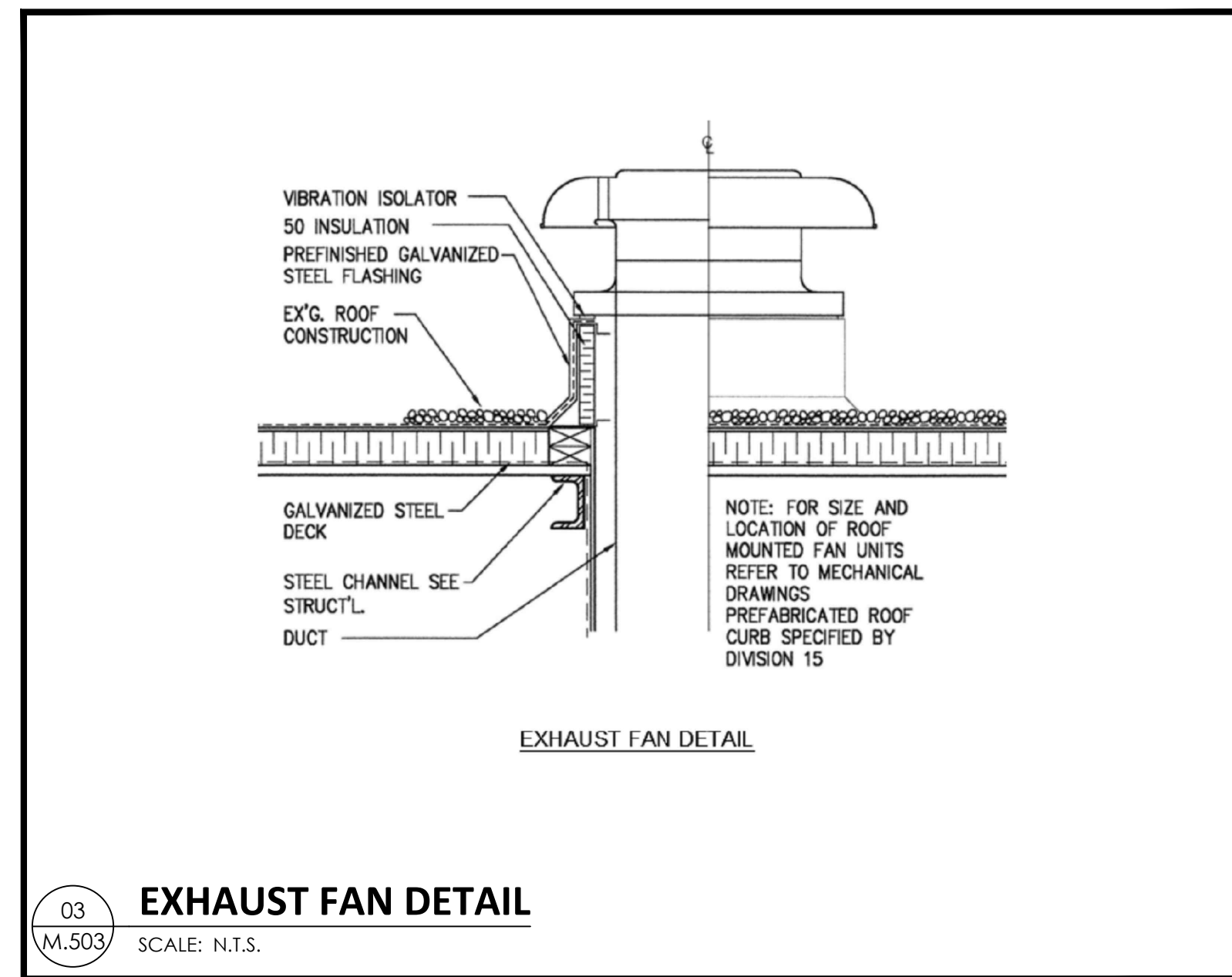
SEAL
NORTH
CLIENT
PROJECT TITLE

32 UNIT AFFORDABLE HOUSING APT BLDG
20 SOUTH STREET, TRENTON
ONTARIO, CANADA

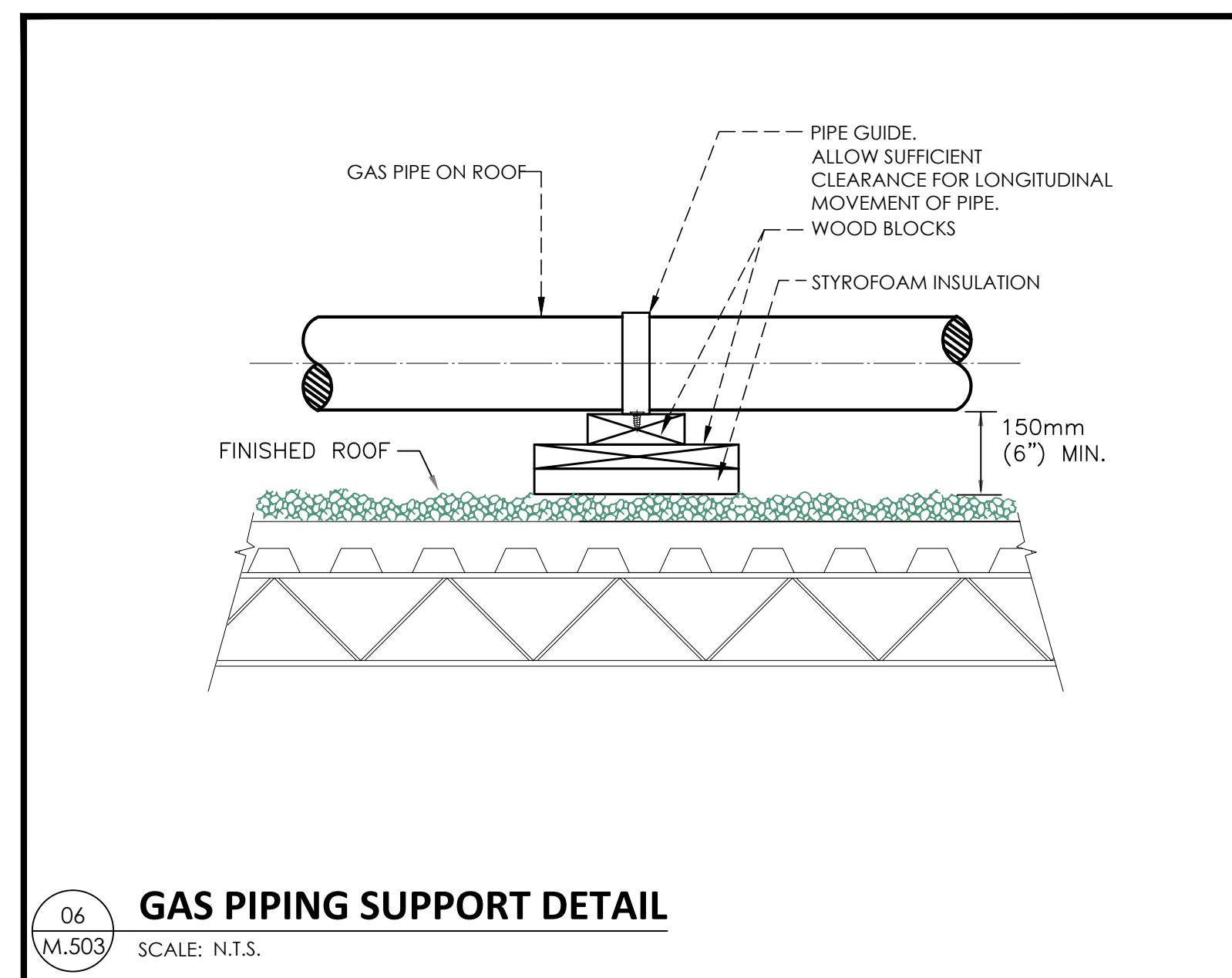
DRAWING SHEET TITLE
DETAIL SHEET 3

PROJECT NUMBER 23006	SCALE AS NOTED	DATE APRIL 2023
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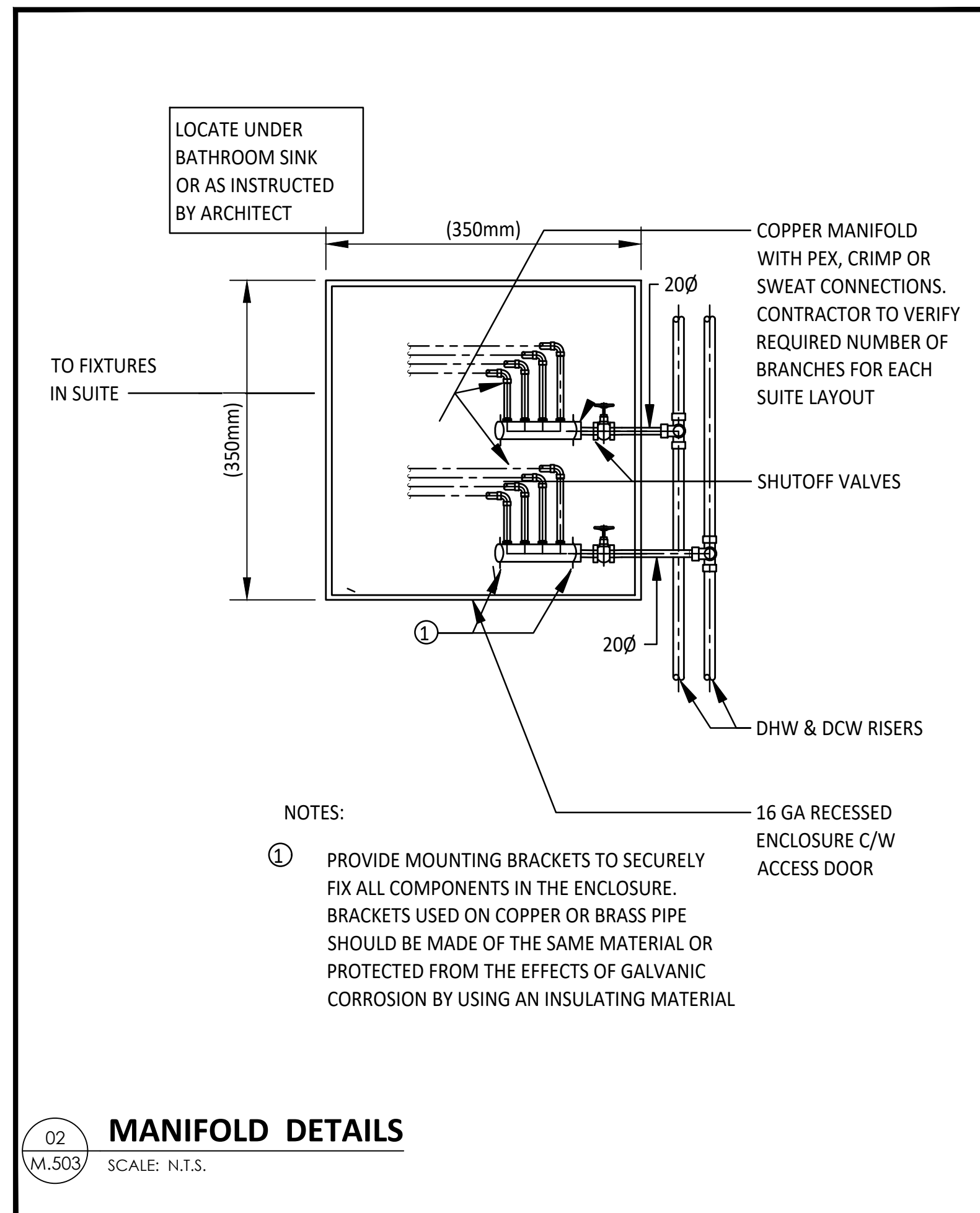
REVIEWED BY: jbb
DRAWN BY: GG
DRAWING NUMBER: **M.502**



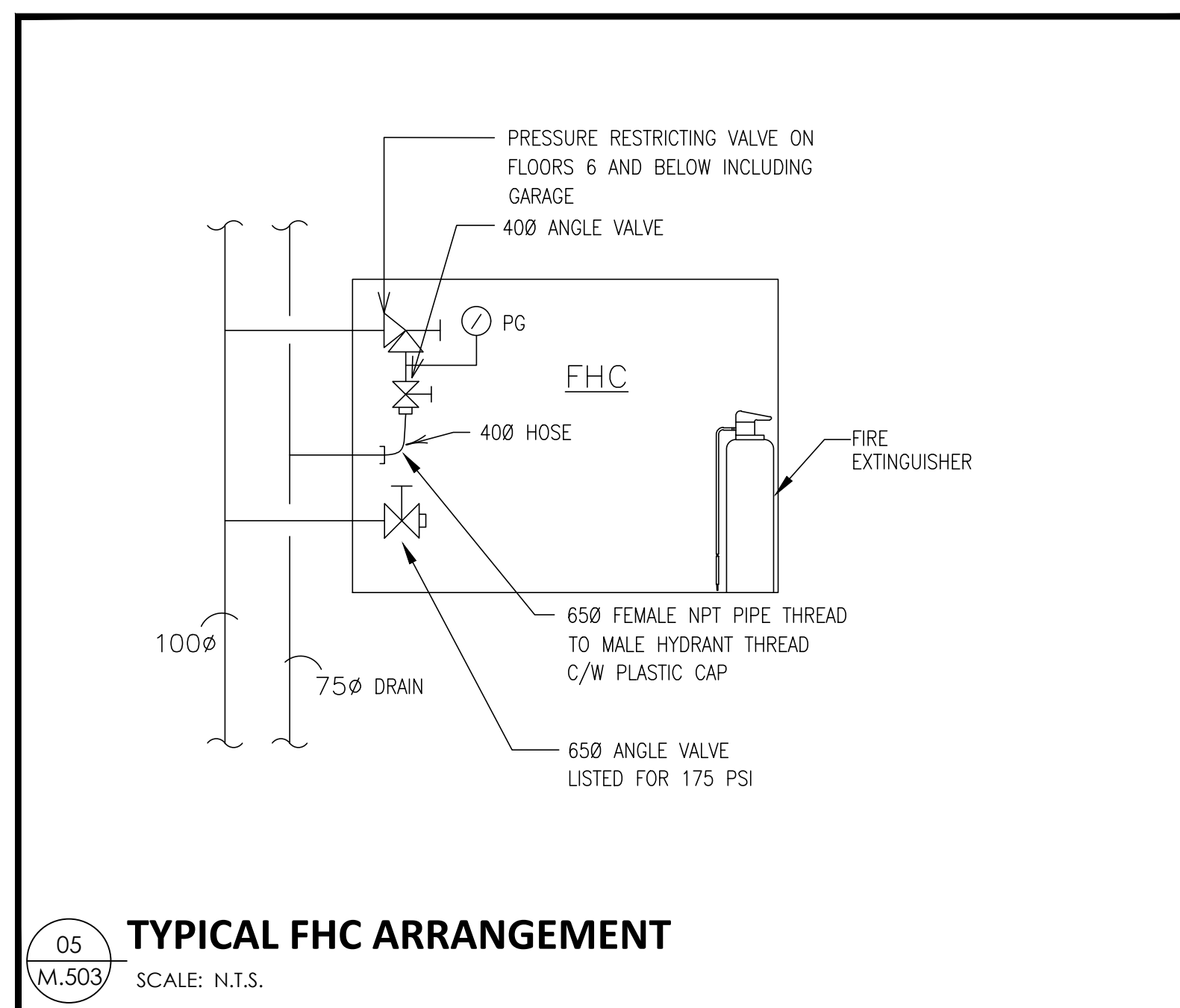
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M.503 EXHAUST FAN DETAIL
SCALE: N.T.S.



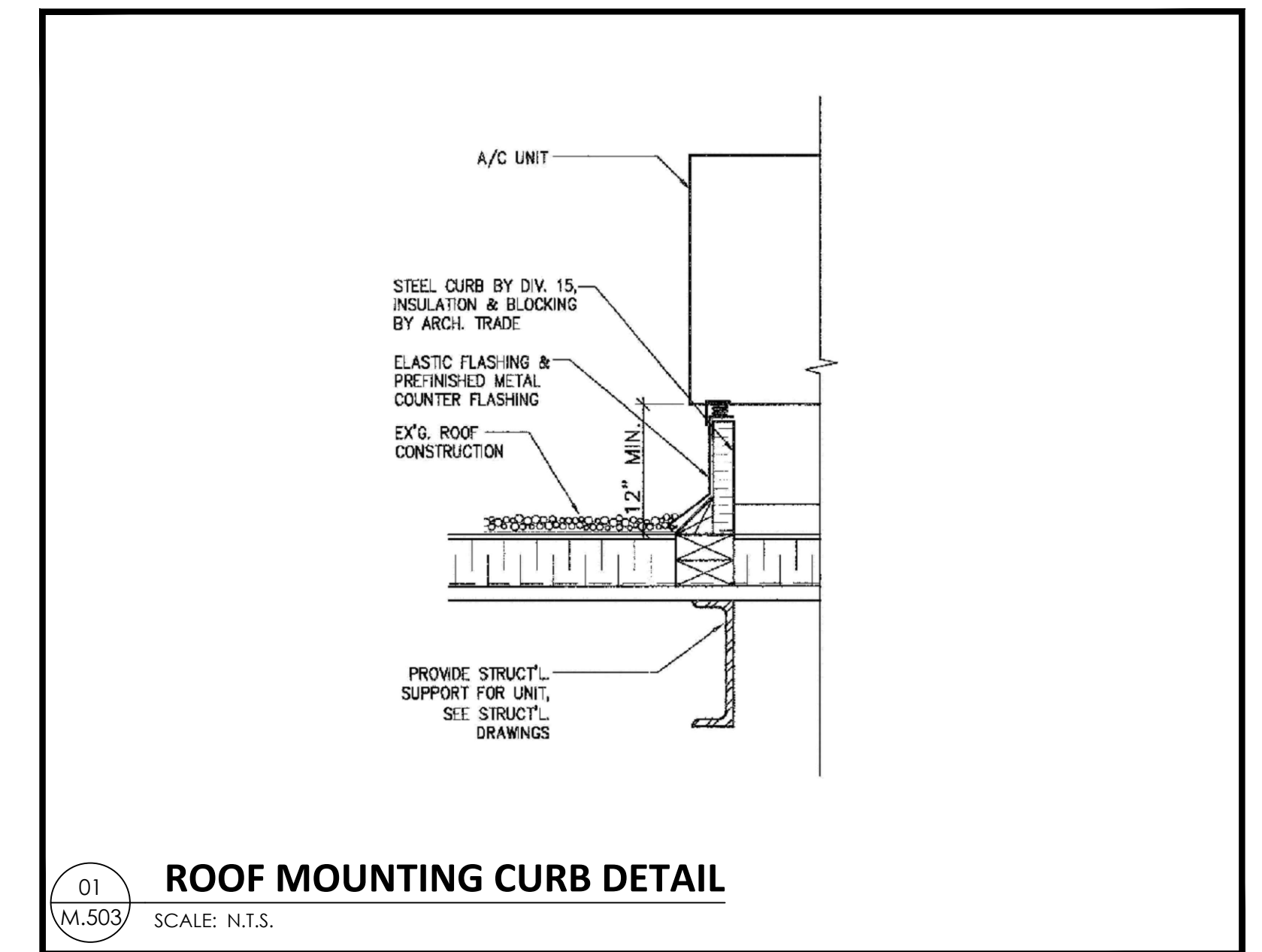
06
M.503 GAS PIPING SUPPORT DETAIL
SCALE: N.T.S.



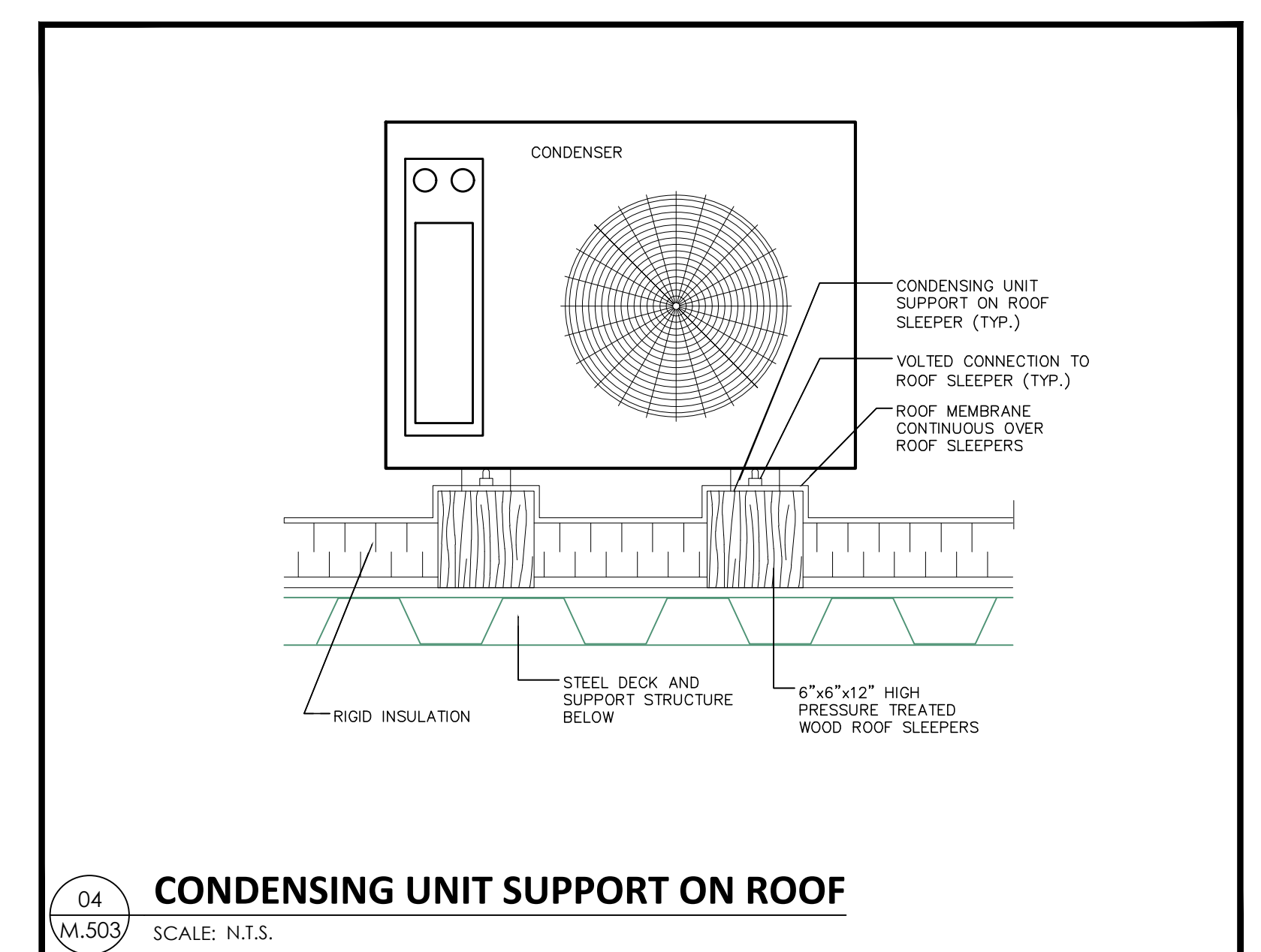
02
M.503 MANIFOLD DETAILS
SCALE: N.T.S.



05
M.503 TYPICAL FHC ARRANGEMENT
SCALE: N.T.S.



01
M.503 ROOF MOUNTING CURB DETAIL
SCALE: N.T.S.



04
M.503 CONDENSING UNIT SUPPORT ON ROOF
SCALE: N.T.S.

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REVISIONS DATE

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 e: gil.galang@gcsengineering.ca t: 416-521-9700 c: 647-909-9899

SEAL
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32 UNIT AFFORDABLE HOUSING APT BLDG
 20 SOUTH STREET, TRENTON ONTARIO, CANADA

PROJECT TITLE

CLIENT

PROJECT TITLE

32 UNIT AFFORDABLE HOUSING APT BLDG
 20 SOUTH STREET, TRENTON ONTARIO, CANADA

DRAWING SHEET TITLE

DETAIL SHEET 4

PROJECT NUMBER
23006

SCALE
AS NOTED

DATE
APRIL 2023

REVIEWED BY

jbb

DRAWN BY

GG

DRAWING NUMBER

M.503