

VALVES

GATE VALVE

BALL VALVE

BUTTERFLY VALVE

GLOBE VALVE (TOP / SIDE)

CIRCUIT BALANCING VALVE

HORIZONTAL VALVE

ANGLE GLOBE VALVE

AUTO-FLOW BALANCING VALVE

TWO-WAY CONTROL VALVE

TERMINAL CONTROL AND BALANCE VALVE

PRESSURE INDEPENDENT CONTROL VALVE (PICV)

THREE-WAY CONTROL VALVE

SOLENOID OPERATED VALVE

PLUG VALVE

SHUTOFF COCK

MANUAL THREE-WAY VALVE

HAND WHEEL - RISING STEM (OS&Y)

HAND WHEEL - NON-RISING STEM

HAND WHEEL - SUPERVISED

GEAR OPERATED MANUAL VALVE

PINCH VALVE

NEEDLE VALVE

QUICK OPEN VALVE

QUICK CLOSE VALVE

BACK FLOW PREVENTER

SWING CHECK VALVE

SPRING TYPE CHECK VALVE

INLINE MULTIPURPOSE VALVE

ANGLE MULTIPURPOSE VALVE

REDUCED PRESSURE BACKFLOW PREVENTER

DOUBLE CHECK VALVE ASSEMBLY

DIFFERENTIAL PRESSURE CONTROL VALVE

DIFFERENTIAL PRV REGULATOR

REDUCING REGULATOR

GAS PRV

SAFETY OR RELIEF VALVE

HOSE BIBB VALVE

STEAM TRAPS

IB INVERTED BUCKET

F&T FLOAT AND THERMOSTATIC

T THERMOSTATIC

TD THERMODYNAMIC (DISK)

VO VARIABLE ORIFICE (PITON)

FI FIXED ORIFICE

PIPE FITTINGS

90 DEGREE ELBOW

45 DEGREE ELBOW

ELBOW UP

ELBOW DOWN

PIPE CAP

TEE

TEE UP

TEE DOWN

BOTTOM BRANCH

TOP BRANCH

FLANGE

SCREWED UNION

CONCENTRIC REDUCER

ERB ECCENTRIC REDUCER (FLAT ON BOTTOM)

ERT ECCENTRIC REDUCER (FLAT ON TOP)

QUICK CONNECT

SIGHT GLASS

PIPE ACCESSORIES

SIGHT GLASS

VACUUM BREAKER

GAS METER

WATER METER

MAGNETIC FLOW METER

FLEXIBLE CONNECTION

HTS INS HEAT TRACE (INSULATED)

HTS NON HEAT TRACE (NON-INSULATED)

THRUST BLOCK

PIPE ANCHOR

PIPE GUIDES

EXPANSION COMPENSATOR

AUTO VENT

MANUAL VENT

AIR SEPARATOR

PIPE SPRING HANGER

PUMP SUCTION DIFFUSER

BASKET STRAINER

PIPE STRAINER

PIPE STRAINER - WITH BLOWDOWN

PIPE STRAINER - WITH BALL VALVE BLOWDOWN AND HOSE CONNECTION

MULTI-LINE VALVE SYMBOLS

PIPE CAP

REDUCER: CONCENTRIC

REDUCER: ECCENTRIC

TEE

PIPE

PIPE HANGER

PIPE SLEEVE

FLANGES: SLIP ON

FLANGES: WELD NECK

FLANGES: BLIND

ELBOW DOWN (90°)

ELBOW UP (90°)

11.25° ELBOW

22.5° ELBOW

45° ELBOW

90° ELBOW

BUTTERFLY VALVE (WITH WELDNECK FLANGES)

BUTTERFLY VALVE (WITH BLIND FLANGES)

FIRE PROTECTION

PENDANT (ANTI-LIGATURE)

PENDANT (EXISTING TO REMAIN)

PENDANT (DEMOLISHED)

PENDANT (REMOVE AND REINSTALL IN NEW LOCATION)

RECESSED

UPRIGHT

CONCEALED

DRY PENDANT

DRY PENDANT (EXISTING)

PRE-ACTION

SIDEWALL

CONCEALED SIDEWALL

RECESSED SIDEWALL

FIRE HOSE CABINET

FIRE HOSE CABINET WITH HOSE REEL

FIRE VALVE CABINET

FIRE EXTINGUISHER

FIRE EXTINGUISHER (EXISTING)

SURFACE MOUNTED F.E. CABINET

SEMI-RECESSED F.E. CABINET

FULLY RECESSED F.E. CABINET

FIRE DEPARTMENT CONNECTION

FIRE DEPARTMENT TEST CONNECTION

WET ALARM VALVE

DRY ALARM VALVE

PRE-ACTION ALARM VALVE

FIRE HAZARD LEVEL

SITE ELEMENTS:

SPLASH PAD

CATCH BASIN

CATCH BASIN (HALF)

MANHOLE

FIRE HYDRANT (SINGLE OUTLET)

FIRE HYDRANT (DOUBLE OUTLET)

FIRE HYDRANT (TRIPLE OUTLET)

FIRE HYDRANT (QUAD OUTLET)

CONTROLS AND CONTROL POINTS

CONTROL WIRE

THERMOSTAT / SPACE TEMPERATURE SENSOR

THERMOSTAT WITH GUARD

HUMIDISTAT / HUMIDITY SENSOR

CO2 SENSOR

SWITCH

PUSH BUTTON

FLOW SWITCH

PRESSURE SWITCH

AI CONTROL POINT - ANALOG INPUT

AO CONTROL POINT - ANALOG OUTPUT

DI CONTROL POINT - DIGITAL INPUT

DO CONTROL POINT - DIGITAL OUTPUT

COM CONTROL POINT - BACNET COMMUNICATIONS

VFD VARIABLE FREQUENCY DRIVE

ES END SWITCH

DM DAMPER MOTOR

TP TEMPERATURE PROBE

FT FLOW TRANSMITTER

HP HUMIDITY PROBE

DP DIFFERENTIAL PRESSURE

FZ FREEZE STAT

OAT OUTSIDE AIR TEMPERATURE SENSOR

VFD VARIABLE FREQUENCY DRIVE

PS PRESSURE SENSOR

BTU BTU METER

EXISTING/DEMOLISHED PIPING:

—[TYPE]—

EXISTING PIPEWORK TO BE DEMOLISHED

—[TYPE]—

EXISTING PIPEWORK TO REMAIN

—DCW—

EXISTING DOMESTIC COLD WATER

—DHW—

EXISTING DOMESTIC HOT WATER

—DHWR—

EXISTING DOMESTIC HOT WATER RECIRC.

PLUMBING:

—CA—

COMPRESSED AIR PIPE

—CV—

CENTRAL VAC - DRY MOP

—CV-W—

CENTRAL VAC - WET

—DCW—

DOMESTIC COLD WATER

—DHW—

DOMESTIC HOT WATER

—DHWR—

DOMESTIC HOT WATER RECIRC.

—PB—

DOMESTIC COLD WATER - PRESSURE BOOSTED

—SW—

SOFTENED DOMESTIC WATER

—TW—

DOMESTIC TEMPERED WATER

—NPW—

NON-POTABLE WATER PIPE

—SAN—

SANITARY DRAINAGE

—SAN—

SANITARY DRAINAGE (BELOW)

—V—

SANITARY VENT

—STW—

STORM WATER DRAINAGE

—STW—

STORM WATER DRAINAGE (BELOW)

—AW—

ACID WASTE DRAINAGE PIPE

—GW—

GREY WATER DRAIN

—WT—

WEEPING TILE

FUEL PIPING:

—G—

NATURAL GAS - LOW PRESSURE

—MG—

NATURAL GAS - MEDIUM PRESSURE

—HG—

NATURAL GAS - HIGH PRESSURE

—P—

PROPANE

—FOF—

FUEL OIL SUPPLY

—FOS—

FUEL OIL SUPPLY

—FOR—

FUEL OIL RETURN

—FOV—

FUEL VENT

HEATING/COOLING PIPING:

—HWS—

HEATING WATER SUPPLY

—HWR—

HEATING WATER RETURN

—HGS—

HEATING GLYCOL SUPPLY

—HGR—

HEATING GLYCOL RETURN

—DTWS—

DUAL TEMPERATURE WATER SUPPLY

—DTWR—

DUAL TEMPERATURE WATER RETURN

—CWS—

CHILLED WATER SUPPLY

—CWR—

CHILLED WATER RETURN

—CS—

CONDENSER WATER SUPPLY

—CR—

CONDENSER WATER RETURN

—GWS—

GROUND WATER SUPPLY

—GWR—

GROUND WATER RETURN

—CGS—

CHILLED GLYCOL SUPPLY

—CGR—

CHILLED GLYCOL RETURN

—BS—

BRINE SUPPLY

—BR—

BRINE RETURN

—BV—

BRINE VENT

—RL—

REFRIGERANT LIQUID SUPPLY

—RV—

REFRIGERANT VAPOUR RETURN

—LPS—

LOW PRESSURE STEAM

—LPC—

LOW PRESSURE CONDENSATE

—MV—

MEDIUM PRESSURE STEAM

—MV—

MEDIUM PRESSURE CONDENSATE

—HPS—

HIGH PRESSURE STEAM

—HPC—

HIGH PRESSURE CONDENSATE

LAB GAS:

—LCA—

LAB COMPRESSED AIR

—CO2—

LAB CARBON DIOXIDE GAS

—H2—

LAB HYDROGEN GAS

—LN2—

LIQUID NITROGEN

—N2—

LAB NITROGEN GAS

—O2—

LAB OXYGEN GAS

—VAC—

LAB VACUUM PIPING

MEDICAL GAS:

—MA—

MEDICAL AIR

—CO2—

MEDICAL CO2

—N2—

MEDICAL NITROGEN

—N2O—

MEDICAL NITROUS OXIDE

—O2—

MEDICAL OXYGEN

—MGS—

MEDICAL GAS SCAVENGING

—MV—

MEDICAL VACUUM

MEDICAL GAS VALVES

MEDICAL GAS ZONE VALVE

MEDICAL GAS OUTLET (TYPE INDICATED)

MEDICAL GAS - NON RETURN VALVE

SPRINKLER AND FIRE PROTECTION

—

FIRE PROTECTION ZONE

—

FIRE PROTECTION RATING

—F—

XXXØ FIRE PROTECTION PIPE

—SP—

XXXØ SPRINKLER MAIN

—

XXXØ SPRINKLER BRANCH PIPING

—DSP—

XXXØ DRY SPRINKLER PIPING

—PA—

XXXØ PRE-ACTION SPRINKLER PIPING

—IG—

XXXØ INERT GAS (CLEAN AGENT) PIPE

VENTILATION:

TERMINAL BOX / WITH ATTENUATOR / AND REHEAT COIL

DROP

RISE

EXISTING DUCT TO REMAIN (TYPE INDICATED)

EXISTING DUCT TO BE DEMOLISHED

S/A SUPPLY AIR DUCT

R/A RETURN AIR DUCT

T/A TRANSFER AIR DUCT

O/A OUTDOOR AIR DUCT

G/E GENERAL EXHAUST DUCT

W/E WASHROOM EXHAUST DUCT

K/E KITCHEN EXHAUST DUCT

F/E FUME HOOD EXHAUST DUCT

RECTANGULAR DUCTS UP: (SUPPLY / RETURN / EXHAUST)

RECTANGULAR DUCTS DOWN: (SUPPLY / RETURN / EXHAUST)

MOTORIZED DAMPER / BALANCING DAMPER

FIRE DAMPER / SMOKE DAMPER / COMBINATION FIRE-SMOKE DAMPER

ROUND ELBOWS - 45°: R1.0 / R1.5 / R2.0

ROUND ELBOWS - 90°: R1.0 / R1.5 / R2.0

RECTANGULAR ELBOWS - 45°: R1.0 / R1.5

RECTANGULAR ELBOWS - 90°: R1.0 / R1.5

RECTANGULAR ELBOWS WITH TURNING VANES: (90° R1.0 / 45° R1.0 / 90° SQUARE)

ACOUSTICALLY LINED DUCT

GRILLES AND DIFFUSERS: SUPPLY / RETURN / EXHAUST

SUPPLY DIFFUSERS: SQUARE / ROUND PLAQUE OR CONE

HORIZONTAL OR WALL GRILLES / DIFFUSER: SUPPLY / RETURN OR EXHAUST.

PIPEWORK SHORTENED FOR CLARITY

PIPEWORK CONTINUED ELSEWHERE

PIPEWORK SHORTENED FOR CLARITY (ALTERNATE SYMBOL)

PIPE FLOW ARROW (SMALL)

PIPE FLOW ARROW (LARGE)

EQUIPMENT:

PUMP

FIN TUBE RADIATION

FIN TUBE RADIATION IN CABINET

RADIANT PANEL

UNIT HEATER (HORIZONTAL)

UNIT HEATER (VERTICAL)

MECHANICAL ACRONYMS:

ACD

AUTOMATIC CONTROL DAMPER

AD

ACCESS DOOR

AP

ACCESS PANEL

AS

AIR SEPARATOR

BD

BALANCING DAMPER

BDD

BACKDRAFT DAMPER

CTE

CONNECT TO EXISTING

FD

FIRE DAMPER

FSD

FIRE/SMOKE DAMPER

FT

FLASH TANK

FTR

FINNED TUBE RADIATOR

H

HUMIDIFIER

MD

MOTORIZED DAMPER

OBD

OPPOSED BLADE DAMPER

PRV

PRESSURE REDUCING VALVE

SA

SOUND ATTENUATOR

SD

SMOKE DAMPER

SRV

SAFETY RELIEF VALVE

EQUIPMENT ACRONYMS:

ACU-

AIR CONDITIONING UNIT

AHU-

AIR HANDLING UNIT

CAV-

CONSTANT AIR VOLUME TERMINAL UNIT

CH-

CHILLER

CP-

CONDENSATE PUMP

CU-

CONDENSING UNIT

CSG-

CLEAN STEAM GENERATOR

CUH-

CABINET UNIT HEATER

EAHU-

EXHAUST AIR HANDLING UNIT

EFC-

EVAPORATIVE FAN COOLER

ERV-

ENERGY RECOVERY VENTILATOR

ET-

EXPANSION TANK

EX-

EXHAUST FAN

FCU-

FAN COIL

HRC-

HEAT RECOVERY COIL

HVU-

HEATING/VENTILATING UNIT

HX-

HEAT EXCHANGER

UH-

UNIT HEATER

VAV-

VARIABLE AIR VOLUME TERMINAL BOX

VFD-

VARIABLE FREQUENCY DRIVE

P-

PUMP

HC-

HEATING COIL

CC-

COOLING COIL

RHC-

REHEAT COIL

SC-

STEAM COIL

PF-

PRE-FILTER

FF-

FINAL FILTER

EF-

EXHAUST FAN

SF-

SUPPLY FAN

RF-

RETURN FAN

SAV-

SUPPLY AIR VALVE

EAV-

RETURN AIR VALVE

MECHANICAL DRAWING LIST

FORMAL ISSUES

SHN - BIRCHMOUNT MENTAL HEALTH

SCALE

REVISION

SUBMIT FOR REVIEW

DATE

BY

CHKD

APP'D

GENERAL INFORMATION

M-000 SYMBOL LEGEND & DRAWING LIST

M-001 SPECIFICATIONS 1

M-002 SPECIFICATIONS 2

MECHANICAL PLAN

M-100 HVAC DEMOLITION PLAN

M-101 HVAC NEW WORK PLAN

M-200 PLUMBING, MEDICAL GAS AND FIRE PROTECTION DEMOLITION PLAN

M-201 PLUMBING, MEDICAL GAS AND FIRE PROTECTION NEW WORK PLAN

M-300 PLUMBING AND FIRE PROTECTION DEMOLITION PLAN - SD LEVEL

M-301 PLUMBING AND FIRE PROTECTION NEW WORK PLAN - SD LEVEL

M-400 INTERRUPTION PHASING PLAN

M-401 TEMPORARY HVAC ROUTING PLAN FOR PLUMBING DIVERSION - SD LEVEL

SCHEDULES AND DETAILS

M-500 EQUIPMENT SCHEDULES

M-501 MECHANICAL DETAILS 1

M-502 MECHANICAL DETAILS 2

M-503 MECHANICAL DETAILS 3

GENERAL NOTES

NOT ALL SYMBOLS SHOWN IN LEGEND ARE NECESSARILY USED ON THIS PROJECT.

THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. PERFORM ALL WORK DETAILED IN THE CONTRACT DOCUMENTS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM TO THE SATISFACTION OF THE OWNER AND CONSULTANT.

ALL WORK SHALL BE PHASED AS REQUIRED TO MINIMIZE DOWNTIME AND DISTURBANCE TO THE REMAINDER OF THE BUILDING. CONTRACTOR TO SUBMIT PHASING AND HOARDING PLANS TO CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING ANY WORK.

ALLOW FOR HOT TAPPING WHEN POSSIBLE, AND FREEZING OF PIPING WHEN HOT TAPPING IS NOT POSSIBLE, TO MINIMIZE DOWNTIME TO FACILITY OPERATIONS. ALLOW FOR THE INSTALLATION OF ADDITIONAL SHUTOFF VALVES AS/IF REQUIRED TO MINIMIZE DOWNTIME TO BUILDING OPERATIONS.

ALL EXISTING INFORMATION SHOWN ON DRAWINGS IS TRANSFERRED FROM DOCUMENTATION PROVIDED BY THE OWNER AND/OR SITE SURVEY. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACCURACY OF THESE DOCUMENTS WITH EXISTING AS-BUILT CONDITIONS. ALL QUANTITIES, AND DETERMINATION OF EXISTING CONDITIONS MUST BE BASED ON SITE VISITS BY THE CONTRACTOR PRIOR TO TENDER CLOSING. NO CLAIMS ASSOCIATED WITH DISCREPANCIES BETWEEN SITE CONDITIONS AND CONTRACT DOCUMENTS WILL BE ENTERTAINED AFTER CONTRACT AWARD.

MAINTAIN THE INTEGRITY OF ALL EXISTING FIRE SEPARATIONS AND EXITS AT ALL TIMES THROUGHOUT CONSTRUCTION.

PROVIDE ULC LISTED FIRE STOP SYSTEMS AT ALL NEW AND EXISTING OPENINGS AND/OR GAPS AROUND DUCTS, PIPES OR ELECTRICAL SERVICES PENETRATING FIRE SEPARATIONS TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION.

PROVIDE BALANCING DAMPERS AT ALL BRANCH DUCTS AND SMOKE, FIRE OR COMBINATION SMOKE/FIRE DAMPERS IN ALL DUCTWORK THAT PENETRATE FIRE SEPARATIONS TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION.

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.

ALL EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE ANTI-LIGATURE UNLESS OTHERWISE NOTED.

TAGS

SCHEMATIC INLET/OUTLET

TYPE PLUMBING FIXTURE TYPE TAG

TYPE SIZE FLOW GRILLE / DIFFUSER TAG

TYPE FIN LENGTH OUTPUT FIN TUBE RADIATION TAG

TYPE OUTPUT RADIANT PANEL TAG

XXXX EQUIPMENT IDENTIFICATION TAG

TP # TIE-IN POINT

PIPE RISE / DROPS

UP FROM BELOW / UP TO ABOVE

DOWN TO BELOW / DOWN FROM ABOVE

VENT UP FROM BELOW / UP TO ABOVE

VENT UP FROM BELOW / UP TO VENT

APPROXIMATE AREA OF WORK ON LEVEL 3. REFER TO PLAN FOR WORK REQUIRED BELOW AND ABOVE.

01 MECHANICAL KEY PLAN

M-000 1:750

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SHEET ISSUANCE

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NO

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ISSUED FOR TENDER AND PERMIT

04.06.26

3

ISSUED FOR CLIENT REVIEW

29.05.26

2

ISSUED FOR REVIEW

25.07.25

1

ISSUED FOR REVIEW

15.05.25

NO

ACTION

DATE

Client:

SCARBOROUGH  
HEALTH NETWORK  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

Project Title:

SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A

Sheet Title:

SYMBOL LEGEND &  
DRAWING LIST

Date:

APR 2025

Project No.:

24002-02

Scale:

N.T.S.

Drawn:

SC

Checked:

MC

Drawing Number:

Project North

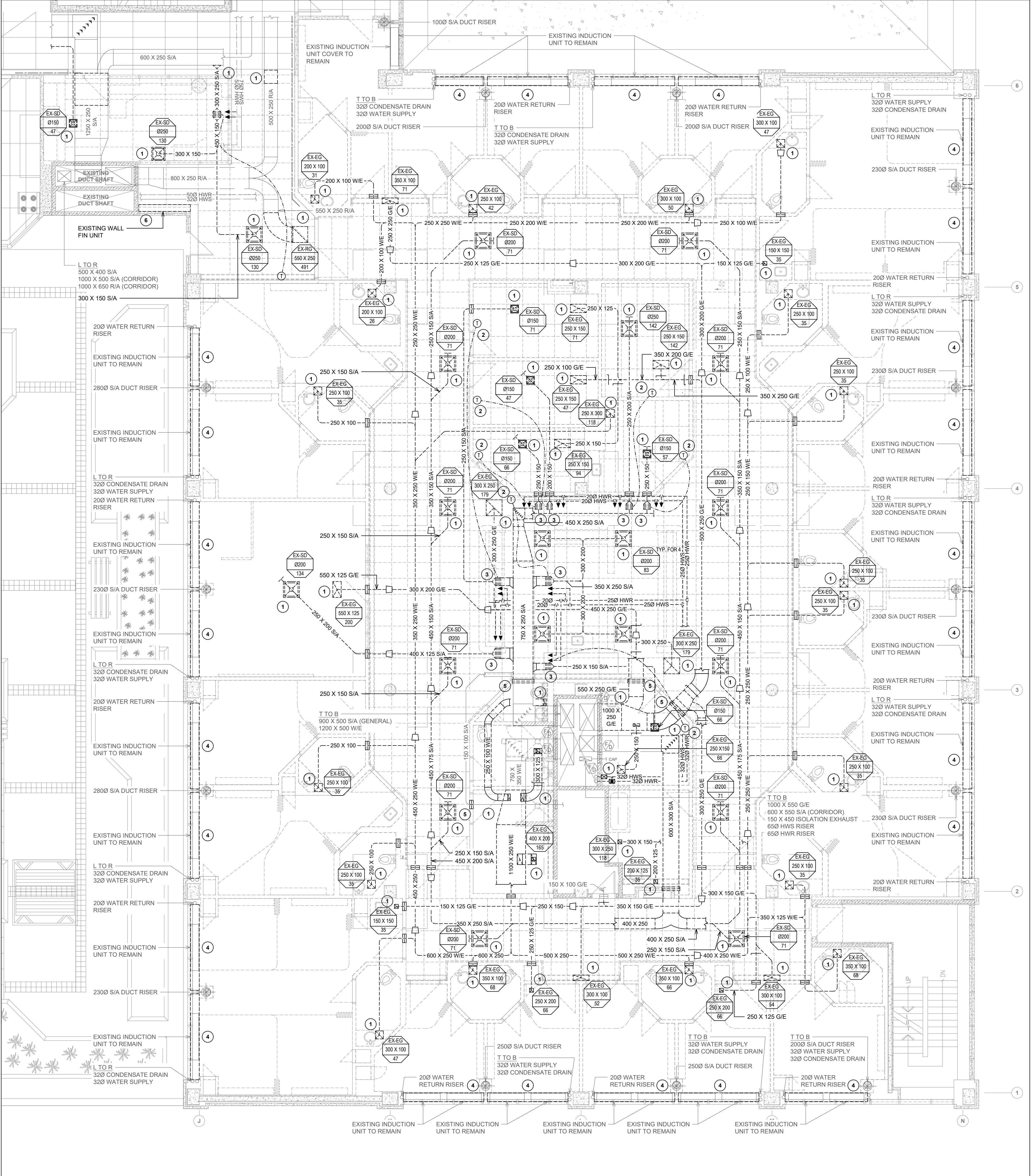


MECHANICAL SPECIFICATION		HANSON + JUNG ARCHITECTS INC	
<p>1 GENERAL PROVISIONS</p> <p>1 ALL EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE ANTI-LIGATURE UNLESS OTHERWISE NOTED.</p> <p>2 COMPLY WITH REQUIREMENTS OF ALL MUNICIPAL, PROVINCIAL AND FEDERAL BYLAWS AND ORDINANCES AS WELL AS THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION; WHERE ANY CODE, REGULATION, BYLAW, STANDARD, CONTRACT FORM, MANUAL, PRINTED INSTRUCTION, AND INSTALLATION AND APPLICATION INSTRUCTION IS QUOTED IT MEANS, UNLESS OTHERWISE SPECIFICALLY NOTED, LATEST PUBLISHED EDITION AT TIME OF PERMIT ADOPTED BY AND ENFORCED BY LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.</p> <p>3 MAINTAIN AT THE JOB SITE, AT ALL TIMES, QUALIFIED PERSONNEL AND SUPPORTING STAFF, WITH PROVEN EXPERIENCE IN ERECTING, SUPERVISING, TESTING AND ADJUSTING PROJECTS OF COMPARABLE NATURE AND COMPLEXITY.</p> <p>4 PRIOR TO SUBMITTING THE TENDER, VISIT SITE TO DETERMINE SUITABILITY OF DESIGN FOR EXISTING SITE CONDITIONS. REFER TO AND EXAMINE ALL CONTRACT DOCUMENTS. ADDITIONAL PAYMENTS WILL NOT BE MADE FOR EXTRA LABOUR OR MATERIAL NECESSARY DUE TO LOCATION OR NATURE OF BEAMS, JOISTS, WALLS, FURRED CEILINGS, OR FINISHES WITH WHICH CONTRACTOR SHOULD BE FAMILIAR. DETERMINE EXACT DIMENSIONS AND OTHER RESTRICTIVE CONDITIONS ON SITE, NOT FROM DRAWINGS.</p> <p>5 NEW EQUIPMENT AND MATERIALS TO MATCH AND BE OF AN EQUIVALENT STANDARD TO MATERIALS AND EQUIPMENT PROVIDED UNDER BASE BUILDING INSTALLATION.</p> <p>6 THE WORD "PROVIDE" SHALL MEAN "SUPPLY, INSTALL, CONNECT, TEST AND COMMISSION".</p> <p>7 ON COMPLETION OF WORK, PRESENT TO THE OWNER OR OWNERS APPOINTED REPRESENTATIVE, A FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL BY AUTHORITIES HAVING JURISDICTION.</p> <p>8 SCAN AND/OR X-RAY ALL CONCRETE SLABS TO IDENTIFY THE APPROPRIATE LOCATION TO CUT, TRENCH AND/OR CORE PRIOR TO COMMENCING ANY WORK. SUBMIT THE RESULTS OF THE SCAN AND/OR X-RAY IN A REPORT FORMAT TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CUTTING, TRENCHING AND/OR CORING. THIS CONTRACTOR SHALL ENSURE THAT THERE ARE NO INTERFERENCES WITH OTHER EXISTING SERVICES PRIOR TO COMMENCING ANY WORK.</p> <p>9 RETURN ALL UNUSED EQUIPMENT AND MATERIAL BEING REMOVED TO THE OWNER OR OWNERS APPOINTED REPRESENTATIVE.</p> <p>10 SUBMIT SHOP DRAWINGS FOR EQUIPMENT REQUESTED BY THE CONSULTANT. UNLESS OTHERWISE SPECIFIED, FOR SUBMIT SHOP DRAWINGS EACH MAJOR ITEM OF EQUIPMENT SUCH AS PLUMBING FIXTURE(S), SUPPLY DIFFUSERS, RETURN GRILLES(S), AND DUCTWORK ACCESSORIES.</p> <p>11 ALL EQUIPMENT TO BE AS SPECIFIED. SUBSTITUTION OF ANY PRODUCT OTHER THAN SPECIFIED MUST ASSURE NO DEVIATION BELOW THE STATED PERFORMANCE CAPACITIES, AIR FLOW RATE, HEAT TRANSFER RATE, FILTRATION EFFICIENCY AND AIR MIXING QUALITY. PHYSICAL PROPERTIES INCLUDING SIZE AND WEIGHTS OF BASE SPECIFIED EQUIPMENT SHALL NOT BE EXCEEDED. POWER REQUIREMENTS MUST NOT BE EXCEEDED AND, WHERE SPECIFICALLY DEFINED, SOUND POWER LEVELS MUST NOT BE EXCEEDED. APPLICATIONS FOR "EQUAL" OR "ALTERNATE" MUST ADDRESS THESE FACTORS.</p> <p>12 SUBMIT WRITTEN GUARANTEE TO OWNER OR OWNERS APPOINTED REPRESENTATIVE COVERING REMEDY OF DEFECTS IN WORK AT COMPLETION OF WORK. SUBMIT SIMILAR WRITTEN GUARANTEE FOR ONE YEAR FROM DATE OF ACCEPTANCE FOR ANY PART OF WORK ACCEPTED BY OWNER OR OWNERS APPOINTED REPRESENTATIVE.</p> <p>13 DURING THE DEFECTS LIABILITY PERIOD, THE SUB-CONTRACTOR SHALL HAVE FACILITIES OF 24 HOURS "CALL OUT" WHEREBY AT ANY TIME OF DAY OR NIGHT TO ATTEND TO ALL FAULT AND COMPLAINT, REMEDY ALL DEFECTS, REPLACE ALL MALFUNCTIONING ITEMS AND MAINTAIN THE COMPLETE INSTALLATION IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE CONSULTING ENGINEER.</p> <p>14 CONTRACTOR PROVIDES COMMISSIONING SERVICES AND COMMISSIONING REPORT FOR ALL THE NEW EQUIPMENT, AND EXISTING EQUIPMENT MODIFIED AS PART OF THE PROJECT'S SCOPE OF WORK. INCLUDE ON-SITE TRAINING (IF REQUIRED) FOR THE FACILITY MAINTENANCE STAFF FOR A MINIMUM OF TWO 8-HOUR SESSIONS.</p> <p>15 SUITABLY STORE AND PROTECT RECORD "AS-BUILT" SET OF DRAWINGS TO BE KEPT ON SITE AT ALL TIMES AND MAKE AVAILABLE AT ALL TIMES FOR INSPECTION. CHANGES TO PIPING, DUCTWORK AND EQUIPMENT SHALL BE RECORDED ON SAME. AFTER COMPLETION OF WORK PROVIDE OWNER WITH ONE SET OF DRAWINGS IN PDF FORMAT AND HARD COPY FOR REVIEW. SUBMIT REVIEWED RECORD "AS-BUILT" DRAWINGS IN AN EDITABLE CAD FORMAT. SHOW FINAL LOCATION OF PIPING, DUCTWORK AND EQUIPMENT.</p> <p>16 CONTRACTOR'S AS-BUILT DRAWINGS:</p> <p>1 RECORD ACCURATELY INSTALLED (AS-BUILT) MECHANICAL WORK AS "RED-LINE" MARK-UPS ON WHITE PRINTS. MECHANICAL TRADES' "RED-LINE" AS-BUILT DRAWINGS SHALL BE TRANSFERRED TO AN EDITABLE AUTOCAD FORMAT "AS-BUILT DRAWING" BY THE MECHANICAL TRADE CONTRACTOR. SUBMIT BOTH COPIES FOR REVIEW. KEEP ONE UP-TO-DATE SET ON SITE.</p> <p>17 OPERATING AND MAINTENANCE (O&amp;M) MANUALS:</p> <p>1 O&amp;M MANUALS SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW.</p> <p>2 O&amp;M MANUALS SHALL INCLUDE REVIEWED SHOP DRAWINGS, TESTING, ADJUSTING AND BALANCING (TAB) REPORTS, EQUIPMENT DATA SHEETS, WRITTEN WARRANTY, OPERATING INSTRUCTIONS AND MAINTENANCE PROCEDURES.</p> <p>3 PROVIDE PIPING PRESSURE TESTS (FIRE PROTECTION, DOMESTIC WATER, HVAC PIPING) INDICATING SYSTEM TESTED, PRESSURE HELD, TIME OF TEST AND DATE, AND CERTIFIED BY THE CONSULTANT.</p> <p>4 O&amp;M MANUALS SHALL BE SEPARATED WITH DIVIDERS IN APPROPRIATE SECTIONS.</p> <p>5 MAKE ALL CORRECTIONS REQUESTED BY THE CONSULTANT AND RESUBMIT FOR REVIEW.</p> <p>18 DOCUMENTATION AND SYSTEMS ACCEPTANCE - PROVIDE THE FOLLOWING UPON SUBSTANTIAL PERFORMANCE OF THE WORK:</p> <p>1 OPERATING AND MAINTENANCE (O&amp;M) MANUALS.</p> <p>2 COMPLETED AND ACCEPTED AIR AND WATER BALANCING REPORT; THE WORK OF THE MECHANICAL TRADES WILL NOT BE CONSIDERED TOTALLY PERFORMED UNTIL COMPLETION OF AIR AND WATER BALANCING EVEN IF UNDERTAKEN BY SEPARATE CONTRACT FROM THE WORK OF THE MECHANICAL TRADES.</p> <p>19 PERFORM CUTTING AND PATCHING FOR MECHANICAL SERVICES AND INCLUDE FOR WORK IN TENDER.</p> <p>20 COORDINATE INSTALLATION OF NEW DUCTWORK, SPRINKLER AND PLUMBING LINES TO SUIT INSTALLATION OF ALL OTHER COMPONENTS BEING INSTALLED IN CEILING SPACE OR EXTENDING INTO CEILING SPACE. REVIEW MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS TO BECOME FAMILIAR WITH INSTALLATION REQUIREMENTS OF THESE COMPONENTS. PROBLEMS WITH INSTALLATION OF THESE COMPONENTS DUE TO INSTALLATION OF NEW DUCTWORK, SPRINKLER AND PLUMBING LINES WILL RESULT IN CONTRACTOR HAVING TO RELOCATE NEW DUCTWORK, SPRINKLER AND PLUMBING LINES AT THEIR OWN COST.</p> <p>21 ALL NEW PENETRATIONS THROUGH FLOORS TO BE SEALED WITH APPROVED NON-SHRINK, WATERPROOF AND ULC LISTED FIREPROOF SEALANT.</p> <p>22 THE CONTRACTOR AND ALL SUB-TRADES ARE RESPONSIBLE TO REPAIR OR REPLACE ANY ITEM DAMAGED WHILE PERFORMING WORK OUTLINED IN THIS</p>		<p>1 LAY-IN TYPE CEILING TILES, PROPERLY MARKED, MAY SERVE AS ACCESS PANELS. PROVIDE STICK-ON CIRCULAR TAB (APPROXIMATELY 100), LOCATED ON A TEE SUPPORTING CEILING TILE USED AS ACCESS PANEL, FOR ALL NEW EQUIPMENT LOCATED IN CEILING SPACE (EG. GAVI/VAV TERMINALS).</p> <p>24 EXISTING AND NEW SERVICES PENETRATING FLOOR SLAB OR FIRE RATED WALLS TO BE SEALED WITH ULC LISTED AND LABELLED 3.0 HR "F" RATED FIRE-RETARDANT SEALANT.</p> <p>25 VISIT THE SITE PRIOR TO TENDER AND VERIFY ALL CONDITIONS. PRIOR TO SUBMITTING PRICE, THE MECHANICAL CONTRACTOR IS TO REVIEW ALL DISCREPANCIES WITH THE CONSULTANT AND VERIFY THE LOCATIONS OF ALL EXISTING SERVICES THAT ARE BEING EXTENDED AND THE ROUTING OF NEW SERVICES. REPORT ALL AMBIGUITIES, DISCREPANCIES, DEPARTURES FROM BUILDING BY-LAWS AND/OR FROM GOOD PRACTICE. FAILURE TO DO SO WILL RESULT IN ALL ADDITIONAL COSTS BEING THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR, INCLUDING FOR ANY ALTERNATE ROUTING OF NEW OR REROUTING OF EXISTING SERVICES TO ACCOMMODATE ALL SITE CONDITIONS IN THE TENDER PRICE.</p> <p>26 APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION. INCLUDE ALL SALES TAXES AND HST.</p> <p>27 PROVIDE THE LANDLORD AND TENANT WITH A WRITTEN WARRANTY FOR ALL LABOUR, MATERIALS, AND EQUIPMENT PROVIDED IN THIS CONTRACT, FOR A PERIOD OF ONE YEAR COMMENCING AT SUCH TIME THAT THE CONSULTANT DEEMS THE WORK ACCEPTABLE.</p> <p>28 INCLUDE THE COST OF PREMIUM TIME IN THE TENDER PRICE FOR WORK PROVIDED DURING NIGHTS, WEEKENDS OR OTHER TIMES OUTSIDE NORMAL WORKING HOURS, NECESSARY TO MAINTAIN ALL MECHANICAL SERVICES IN OPERATION AND TO MEET THE PROJECT SCHEDULE.</p> <p>29 ALTERNATE EQUIPMENT MAY BE PROPOSED DURING THE TENDER PERIOD, PROVIDED THAT THE SPACE REQUIREMENTS, QUALITY AND PERFORMANCE CHARACTERISTICS, POWER CHARACTERISTICS, AIR AND FLUID FLOW REQUIREMENTS AND WEIGHTS ARE EQUAL TO THE SPECIFIED PRODUCTS. ACCEPTANCE OF ALTERNATE EQUIPMENT SHALL BE AT THE DISCRETION OF THE CONSULTANT AND WILL ONLY BE AFTER REVIEW OF PROPERLY SUBMITTED SHOP DRAWINGS ASSUME RESPONSIBILITY AND PAY FOR ALL ADDITIONAL INSTALLATION COSTS INCURRED BY ALL RELATED TRADES RESULTING FROM ALTERNATES AND/OR SUBSTITUTES. MAKE REVISIONS TO RECORD DRAWINGS, INCORPORATING ALTERNATES AND/OR SUBSTITUTES AND ALL RELATED CHANGES. ALTERNATE EQUIPMENT WILL NOT BE CONSIDERED SUBSEQUENT TO TENDER CLOSING.</p> <p>30 REUSE EXISTING MATERIALS AND EQUIPMENT WHEREVER POSSIBLE. PROVIDE NEW MATERIALS AND EQUIPMENT AS REQUIRED TO ENSURE A COMPLETE INSTALLATION. ALL EXISTING EQUIPMENT, MATERIALS AND ASSOCIATED CONTROLS NOT USED IN THIS CONTRACT SHALL BE PACKAGED AND TURNED OVER TO THE LANDLORD, INCLUDE IN THE TENDER FOR ALL SHIPPING AND PLACEMENT IN A DESIGNATED ON-SITE STORAGE LOCATION. REMOVE ANY EQUIPMENT OR MATERIAL NOT WANTED BY THE LANDLORD FROM THE SITE.</p> <p>31 PROVIDE SLEEVES FOR ALL NEW PIPING PASSING THROUGH FLOOR AND ROOF SLABS, BEAMS, CONCRETE WALLS AND SLAB TO SLAB PARTITIONS, ETC.</p> <p>32 SEAL TO BE AIR-TIGHT AROUND ALL DUCTWORK AND PIPING PENETRATIONS THROUGH PARTITIONS, Baffles ABOVE CEILINGS, AND THROUGH FLOORS THAT ARE NOT FIRE RATED.</p> <p>33 REQUEST IN WRITING FOR A COMPLETED ROUGH-IN AND FINAL INSPECTION OF THE MECHANICAL SYSTEMS. WHEN THE FINAL INSPECTION REQUEST IS MADE ALL DEFICIENCIES MUST BE COMPLETE, BALANCING REPORTS SUBMITTED, SYSTEMS READY FOR OPERATION, EQUIPMENT HAS BEEN COMMISSIONED, OPERATING AND MAINTENANCE MANUALS SUBMITTED, ALL TAGS, CHARTS AND NAMEPLATES COMPLETED, ALL FIXTURES AND EQUIPMENT CLEANED, SPARE PARTS PROVIDED, RECORD DRAWINGS COMPLETE, CONTROL SYSTEMS OPERATIONAL, AND THE LANDLORD'S STAFF INSTRUCTED IN ALL PHASES OF THE SYSTEM OPERATION.</p> <p>34 PROVIDE TEMPORARY FILTERS, 10" THICK DISPOSABLE MEDIA TYPE, OVER ALL RETURN AIR OPENINGS IN THE BASE BUILDING H.V.A.C. SYSTEMS THAT REMAIN IN OPERATION DURING CONSTRUCTION. MAINTAIN AND REPLACE THE TEMPORARY FILTER MEDIA AS REQUIRED TO PREVENT CONSTRUCTION DUST FROM FOULING THE BASE BUILDING EQUIPMENT. REMOVE THE TEMPORARY FILTER MEDIA AFTER COMPLETION. FILTERS ON EQUIPMENT, I.E. AIR HANDLING UNITS, INDUCTION UNITS, FAN COIL UNITS, ETC., SHALL BE REPLACED AFTER CONSTRUCTION IS COMPLETED.</p> <p>35 PRIOR TO OPERATING ANY EXISTING OR NEW EQUIPMENT DURING ANY STAGE OF CONSTRUCTION, APPROVAL FROM THE OWNER OR OWNERS APPOINTED REPRESENTATIVE AND CONSULTANT MUST BE RECEIVED IN WRITING.</p> <p>36 PROVIDE ALL RIGGING AS MAY BE REQUIRED FOR ALL SYSTEM MATERIALS AND EQUIPMENT. PROVIDE ALL REQUIRED SUPPLEMENTARY STEEL SUPPORTS NECESSARY FOR MOUNTING OR HANGING EQUIPMENT. EQUIPMENT BEING SUSPENDED FROM THE FLOOR STRUCTURE, OR SUPPORTED FROM OR ON THE ROOF, WITH A WEIGHT GREATER THAN 500 POUNDS, SHALL HAVE SUPPORTS REVIEWED BY A STRUCTURAL CONSULTANT. ALL REQUIRED STRUCTURE AS RECOMMENDED BY THE CONSULTANT SHALL BE INCLUDED IN THE TENDER.</p> <p>37 ALL NEW AND RELOCATED EXISTING SERVICES AND EQUIPMENT MUST BE SUPPORTED FROM THE BUILDING STRUCTURE. ALL DRILLING, APPROVED TYPE INSERTS AND HANGERS SHALL BE INCLUDED. REFER TO "SEISMIC RESTRAINT CONTROLS" SECTION FOR ADDITIONAL REQUIREMENTS.</p> <p>1 AUXILIARY STRUCTURAL MEMBERS SHALL BE INCLUDED AND INSTALLED WHERE REQUIRED TO ACCOMMODATE HANGERS.</p> <p>2 ALL SUPPORTS SHALL BE CONNECTED TO THE TOP OF JOISTS AND BEAMS WHERE APPLICABLE.</p> <p>3 SUSPENSION FROM METAL DECK IS NOT ALLOWED.</p> <p>4 SUSPENDING ONE HANGER FROM ANOTHER IS NOT PERMITTED.</p> <p>38 MONTHLY PROGRESS DRAWS:</p> <p>1 PROVIDE A COMPLETE ITEMIZED COST BREAKDOWN OF ALL MATERIALS, EQUIPMENT AND LABOUR COSTS ASSOCIATED WITH EACH SUBMISSION FOR ADDITIONAL OR DELETED WORK.</p> <p>39 APPLY, OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR THIS WORK. IN CASE OF CONFLICT, CODES AND REGULATIONS TAKE PRECEDENCE OVER THE CONTRACT DOCUMENTS. IN NO INSTANCE REDUCE THE STANDARD OR SCOPE OF WORK OR INTENT ESTABLISHED BY THE DRAWINGS AND SPECIFICATIONS BY APPLYING ANY OF THE CODES.</p> <p>40 CHANGES TO THE WORK:</p> <p>1 BEFORE PROCEEDING WITH ANY CHANGES, SUBMIT FOR REVIEW AND APPROVAL BY THE CONSULTANT; APPROVAL SHALL COME IN THE FORM OF A CHANGE ORDER SIGNED BY THE LANDLORD/OWNER.</p> <p>2 CHANGE QUOTATIONS SHALL BE SUBMITTED COMPLETE WITH AN ITEMIZED COST BREAKDOWN OF ALL MATERIALS, EQUIPMENT AND LABOUR COSTS ASSOCIATED WITH EACH SUBMISSION FOR ADDITIONAL OR DELETED WORK. FAILURE TO PROVIDE WILL RESULT IN REJECTION.</p> <p>3 ALL MECHANICAL CHANGE NOTICES SHALL BE PRICED USING MECHANICAL LABOUR UNIT COSTS IN ACCORDANCE WITH MECHANICAL CONTRACTORS ASSOCIATION OF AMERICA (MCAA) LABOR ESTIMATING MANUAL. PROVIDE COPIES OF THE MCAA LABOUR UNITS APPLIED WHEN REQUESTED BY THE CONSULTANT.</p> <p>4 IT IS UNDERSTOOD THAT EACH CHANGE MAY HAVE A VARIETY OF NON-TYPICAL OR ABNORMAL FACTORS THAT WILL REQUIRE ADJUSTMENTS. UNDER NO CIRCUMSTANCES SHALL THE CUMULATIVE TOTAL OF ADDITIONAL FACTORS EXCEED 20% OF THE HOURS ESTABLISHED USING BASE LABOUR UNITS.</p> <p>5 ALL MECHANICAL CHANGE NOTICES SHALL BE PRICED USING ALLPRISER MATERIAL PRICING, LESS A MINIMUM DISCOUNT OF 20%. PROVIDE COPIES OF THE ALLPRISER PUBLISHED LIST PRICES USED TO ESTIMATE MATERIAL AND EQUIPMENT COSTS WHEN REQUESTED BY THE CONSULTANT.</p> <p>6 THE MARK-UP FOR OVERHEAD AND PROFIT SHALL BE LIMITED TO AND</p>	
		<p>BE CALCULATED AS FOLLOWS:</p> <p>1 WORK CARRIED OUT BY THE TRADE CONTRACTOR OR TRADE SUBCONTRACTOR: 10% OVERHEAD AND PROFIT COMBINED.</p> <p>2 TRADE CONTRACTORS' OVERHEAD AND PROFIT ON TRADE SUBCONTRACTORS' WORK: 5% OVERHEAD AND PROFIT COMBINED.</p> <p>3 THE CUMULATIVE TOTAL PERCENTAGE FOR OVERHEAD AND PROFIT CHARGED BY THE TRADE CONTRACTOR, TRADE SUBCONTRACTOR AND OTHERS SHALL NOT EXCEED 20% OF THE CUMULATIVE TOTAL VALUE OF SUCH CHANGE IN THE WORK, NET OF OVERHEAD AND PROFIT.</p> <p>2 DEMOLITION AND REVISION WORK:</p> <p>1 WHERE INDICATED ON DRAWINGS, DISCONNECT AND REMOVE EXISTING MECHANICAL WORK, INCLUDING HANGERS, SUPPORTS, INSULATION, AND SIMILAR DEVICES AND SYSTEM ANCILLARIES. DISCONNECT AT POINT OF SUPPLY, REMOVE OBSOLETE CONNECTING SERVICES AND MAKE SYSTEM SAFE. CUT BACK OBSOLETE PIPING BEHIND FINISHES AND CAP WATER-TIGHT, UNLESS OTHERWISE SPECIFIED.</p> <p>2 DRAIN DOWN EXISTING PIPING PRIOR TO ANY DEMOLITION WORK. SAFELY DISPOSE OF FLUIDS WITHIN PIPING, UNLESS SPECIFIED OTHERWISE.</p> <p>3 WHERE EXISTING MECHANICAL SERVICES EXTEND THROUGH OR ARE IN AN AREA SCHEDULED TO REMAIN OPERATIONAL DURING THE PROJECT, MAINTAIN SERVICES IN OPERATION. INCLUDE FOR REROUTING EXISTING SERVICES CONCEALED BEHIND EXISTING FINISHES AND WHICH BECOME EXPOSED DURING THE RENOVATION WORK, SO AS TO BE CONCEALED BEHIND NEW OR EXISTING FINISHES.</p> <p>4 UNLESS OTHERWISE SPECIFIED, REMOVE FROM SITE AND DISPOSE OF EXISTING MATERIALS WHICH HAVE BEEN REMOVED AND ARE NOT TO BE RELOCATED OR REUSED. PRESENT TO THE OWNER EXISTING EQUIPMENT REMOVED BUT NOT IDENTIFIED FOR SALVAGE ON SITE. ACCEPTANCE OF REMOVED EQUIPMENT IS AT THE DISCRETION OF THE OWNER. REMOVE SUCH ITEMS FROM SITE WHEN DEEMED UNSUITABLE. MATERIALS WHICH ARE TO BE HANDED OVER TO THE OWNER SHALL BE TRANSPORTED BY THE CONTRACTOR TO A LOCATION WITHIN THE PROJECT SITE DESIGNED BY THE OWNER. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO EXISTING SALVAGED EQUIPMENT DURING REMOVAL AND TRANSPORTING.</p> <p>5 IF ASBESTOS, PCBs OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED IN THE COURSE OF THE WORK, STOP WORK IN THE VICINITY OF SUCH MATERIALS AND REPORT THEIR PRESENCE TO THE OWNER OR OWNERS APPOINTED REPRESENTATIVE AND THE CONSULTANT.</p> <p>1 OBTAIN AND PAY FOR THE SERVICES OF A CONTRACTOR LICENSED TO WORK IN AREA CONTAINING ASBESTOS. THIS CONTRACTOR TO SET UP ALL NECESSARY BARRIERS, ABOVE AND BELOW THE CEILINGS AND BE INVOLVED IN THE PROJECT AS LONG AS ASBESTOS IS EXPOSED.</p> <p>2 ALL PERSONNEL ENTERING THE CONTAMINATED AREA MUST COMPLY WITH MINISTRY OF LABOUR CODES REGARDING ASBESTOS.</p> <p>3 AFTER ALL WORK IN THE ASBESTOS CONTAMINATED AREA IS COMPLETED, THE ASBESTOS CONTRACTOR WILL CLEAN UP AND DISPOSE OF ALL DISTURBED ASBESTOS AND ASBESTOS CONTAMINATED MATERIALS.</p> <p>6 INTERRUPTION TO SHUT-DOWN OF MECHANICAL SERVICES AND SYSTEMS:</p> <p>1 WHERE DISRUPTIONS OF EXISTING MECHANICAL SERVICES ARE REQUIRED, COORDINATE SHUT-DOWN WITH THE OWNER OR OWNERS' APPOINTED REPRESENTATIVE AND DO THE WORK AT A TIME AND IN A MANNER MUTUALLY ACCEPTABLE.</p> <p>2 PERFORM WORK ASSOCIATED WITH SHUT-DOWNS AND INTERRUPTIONS AS CONTINUOUS OPERATIONS TO MINIMIZE SHUT-DOWN TIME AND TO REINSTATE SYSTEMS AS SOON AS POSSIBLE, AND, PRIOR TO ANY SHUT-DOWN, ENSURE MATERIALS AND LABOUR REQUIRED TO COMPLETE THE WORK FOR WHICH SHUT-DOWN IS REQUIRED ARE AVAILABLE AT SITE.</p> <p>3 SUBMIT A WRITTEN CONCISE SCHEDULE OF EACH DISRUPTION AT LEAST 72 (SEVENTY-TWO) HOURS IN ADVANCE AND OBTAIN OWNERS' WRITTEN CONSENT PRIOR TO IMPLEMENTATION.</p> <p>7 INSULATION</p> <p>1 INSULATION SHALL BE REMOVED FROM ALL DUCTWORK, PIPING, FITTINGS, VALVES AND EQUIPMENT DESIGNATED FOR DEMOLITION.</p> <p>2 COMPLY WITH ALL SAFETY PRECAUTIONS RELATED TO INSULATION REMOVAL.</p> <p>3 SEISMIC RESTRAINT CONTROLS</p> <p>1 PROVIDE SEISMIC RESTRAINT CONTROLS FOR ALL EQUIPMENT AND SERVICES INSTALLED AS PART OF THIS PROJECT.</p> <p>2 SRS: ACRONYM FOR SEISMIC RESTRAINT SYSTEM.</p> <p>3 SFRS: ACRONYM FOR SEISMIC FORCE RESISTING SYSTEM.</p> <p>4 DESIGN AND PROVIDE A COMPLETE SEISMIC RESTRAINT SYSTEMS FOR ALL MECHANICAL EQUIPMENT AND SYSTEMS, SUCH THAT THE EQUIPMENT AND SYSTEMS WILL REMAIN FUNCTIONAL DURING AND AFTER A SEISMIC EVENT. THE RESTRAINT SYSTEM SHALL ENSURE THAT OTHER UNRELATED SYSTEMS ARE NOT AFFECTED BY MECHANICAL SYSTEMS/EQUIPMENT MOTION DURING THE SEISMIC EVENT.</p> <p>5 INSTALL MECHANICAL SYSTEMS AND EQUIPMENT WITH ADEQUATE STRUCTURAL SUPPORT TO WITHSTAND SEISMIC FORCES IN ACCORDANCE WITH PART 4 OF THE ONTARIO BUILDING CODE.</p> <p>6 RETAIN AN ENGINEER LICENSED IN THE PROVINCE OF ONTARIO SPECIALIZING IN THE DESIGN OF SRS/SFRS TO PERFORM A REVIEW OF THE PROPOSED DESIGN AND INSTALLATION, AND PREPARE INSTALLATION DOCUMENTS INDICATING ALL REQUIRED SEISMIC SUPPORTS, BRACINGS AND FASTENINGS. THESE DOCUMENTS SHALL BE SEALED AND SIGNED BY THE STRUCTURAL ENGINEER AND SUBMITTED AS PART OF THE SHOP DRAWING PACKAGE PRIOR TO ROUGH-IN WORK COMMENCING ON SITE.</p> <p>7 SCOPE SHALL INCLUDE BUT NOT BE LIMITED TO:</p> <p>1 PUMPS;</p> <p>2 HEAT EXCHANGERS;</p> <p>3 HVAC EQUIPMENT;</p> <p>4 DUCTWORK;</p> <p>5 HYDRONIC PIPING;</p> <p>6 STEAM AND CONDENSATE SYSTEM EQUIPMENT AND PIPING;</p> <p>7 MEDICAL GAS EQUIPMENT AND PIPING;</p> <p>8 PLUMBING EQUIPMENT AND PIPING;</p> <p>9 FIRE PROTECTION SYSTEMS.</p> <p>8 PROVIDE CONFIRMATION IN WRITING, SIGNED AND SEALED BY THE STRUCTURAL ENGINEER, AT COMPLETION OF PROJECT THAT THE MECHANICAL INSTALLATION IS IN GENERAL COMPLIANCE WITH THE STRUCTURAL INSTALLATION DRAWINGS SUBMITTED WITH THE SHOP DRAWING PACKAGE.</p> <p>9 THE MECHANICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE FULL SCOPE OF THIS WORK. INCLUDE ALL COSTS OF STRUCTURAL DESIGN, MATERIALS, AND SITE REVIEW IN TENDER PRICE.</p> <p>10 SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS.</p> <p>11 SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS.</p> <p>12 SRS TO LIMIT MOVEMENT TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS.</p> <p>13 SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION.</p> <p>14 FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS.</p> <p>15 SRS OF PIPING SYSTEMS COMPATIBLE WITH:</p> <p>1 EXPANSION, ANCHORING AND GUIDING REQUIREMENTS.</p> <p>2 EQUIPMENT VIBRATION ISOLATION AND EQUIPMENT SRS.</p> <p>16 SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT</p>	
		<p>PERMITTED.</p> <p>1 ATTACHMENTS TO RC STRUCTURE:</p> <p>1 USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS.</p> <p>2 DRILLED OR POWER-DRIVEN ANCHORS NOT PERMITTED.</p> <p>3 FIRE PROTECTION SYSTEMS: REFER TO FIRE PROTECTION AND RELEVANT NFPA STANDARDS.</p> <p>1 WET PIPE SPRINKLER SYSTEMS: REFER TO FIRE PROTECTION.</p> <p>2 DRY PIPE SPRINKLER SYSTEMS: REFER TO FIRE PROTECTION.</p> <p>18 SEISMIC CONTROL MEASURES NOT TO INTERFERE WITH INTEGRITY OF FIRESTOPPING.</p> <p>19 FLOOR-MOUNTED STATIC EQUIPMENT SYSTEMS:</p> <p>1 ANCHOR EQUIPMENT TO EQUIPMENT SUPPORTS.</p> <p>2 ANCHOR EQUIPMENT SUPPORTS TO STRUCTURE.</p> <p>3 USE SIZE OF BOLTS SCHEDULED IN APPROVED SHOP DRAWINGS.</p> <p>20 SUSPENDED STATIC EQUIPMENT SYSTEMS:</p> <p>1 USE ONE OR COMBINATION OF FOLLOWING METHODS:</p> <p>1 INSTALL TIGHT TO STRUCTURE.</p> <p>2 CROSS-BRACE IN EVERY DIRECTION.</p> <p>3 BRACE BACK TO STRUCTURE.</p> <p>4 CABLE RESTRAINT SYSTEM.</p> <p>21 SRS FOR FLOOR MOUNTED VIBRATION ISOLATED EQUIPMENT:</p> <p>1 USE ONE OR COMBINATION OF FOLLOWING METHODS:</p> <p>1 VIBRATION ISOLATORS WITH BUILT-IN SNUBBERS.</p> <p>2 VIBRATION ISOLATORS AND SEPARATE SNUBBERS.</p> <p>3 BUILT-UP SNUBBER SYSTEM APPROVED BY CONSULTANT, CONSISTING OF STRUCTURAL ELEMENTS AND ELASTOMERIC LAYER.</p> <p>2 SRS TO RESIST COMPLETE ISOLATOR UNLOADING.</p> <p>3 SRS NOT TO JEOPARDIZE NOISE AND VIBRATION ISOLATION SYSTEMS. PROVIDE 4-8 MM CLEARANCE BETWEEN SEISMIC RESTRAINT SNUBBERS AND EQUIPMENT DURING NORMAL OPERATION OF EQUIPMENT AND SYSTEMS.</p> <p>4 CUSHIONING ACTION: GENTLE AND STEADY BY UTILIZING ELASTOMERIC MATERIAL OR OTHER MEANS IN ORDER TO AVOID HIGH IMPACT LOADS.</p> <p>22 SRS FOR SUSPENDED VIBRATION ISOLATED EQUIPMENT:</p> <p>1 USE ONE OR COMBINATION OF FOLLOWING METHODS:</p> <p>1 SLACK CABLE RESTRAINT SYSTEM.</p> <p>2 BRACE BACK TO STRUCTURE VIA VIBRATION ISOLATORS AND SNUBBERS.</p> <p>23 SLACK CABLE RESTRAINT SYSTEM (SCS):</p> <p>1 USE ELASTOMER MATERIALS OR SIMILAR TO AVOID HIGH IMPACT LOADS AND PROVIDE GENTLE AND STEADY CUSHIONING ACTION.</p> <p>2 SCS TO PREVENT SWAY IN HORIZONTAL PLANE, "ROCKING" IN VERTICAL PLANE, SLIDING AND BUCKLING IN AXIAL DIRECTION.</p> <p>3 HANGER RODS TO WITHSTAND COMPRESSIVE LOADING AND BUCKLING.</p> <p>4 CHEMICAL TREATMENT</p> <p>1 PERFORM PIPING SYSTEM CLEANING AND WATER TREATMENT SERVICES UNDER THE SUPERVISION OF THE BASE BUILDING WATER TREATMENT SPECIALIST.</p> <p>2 CLEAN AND DEGREASE THE PIPING SYSTEMS PRIOR TO CONNECTION TO THE BASE BUILDING SYSTEM. CLEAN STRAINER BASKETS AS OFTEN AS NECESSARY DURING CLEANING AND DEGREASING. VERIFY CHEMICAL TREATMENT AND ANTIRIZEE CONCENTRATIONS WITH THE BASE BUILDING WATER TREATMENT SPECIALIST.</p> <p>3 ADD CHEMICAL SOLUTION TO SYSTEM. CIRCULATE FOR PERIODS REQUIRED, DRAIN AND REFILL. REPEAT CHEMICAL TREATMENT RINSE, REFILL THE SYSTEM AND CONNECT TO BASE BUILDING CONDENSER WATER SYSTEM.</p> <p>4 MAINTAIN CHEMICAL LEVELS FROM THE TIME THE SYSTEM IS FILLED AFTER CLEANING, UP TO SUBSTANTIAL PERFORMANCE OF THE CONTRACT.</p> <p>5 PROVIDE SERVICE VISITS DURING WARRANTY PERIOD AS REQUIRED TO STABILIZE AND COMMISSION THE SYSTEMS. PERFORM CORROSION TESTS TO VERIFY PERFORMANCE REQUIREMENTS ARE BEING ACHIEVED. DOCUMENT RECOMMENDATIONS AND SUBMIT A WRITTEN REPORT TO THE LANDLORD'S/OWNER'S REPRESENTATIVE AFTER EACH VISIT.</p> <p>6 PIPES INTENDED TO CARRY POTABLE (DRINKING) WATER SHALL BE FLUSHED AND DISINFECTED BEFORE BEING PLACED IN SERVICE.</p> <p>1 DISINFECTION PROCEDURES SHALL CONFORM TO AWWA C601 AND AWWA C651, AND THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION (AHJ).</p> <p>2 WHERE STAINLESS STEEL PIPING IS USED FOR DOMESTIC WATER APPLICATIONS, PIPING SYSTEMS SHALL BE ANNEALED, DE-GREASED AND PICKLED, AND WILL BE SUBJECT TO FORMAL CLEANING AND DISINFECTING ALONG WITH ALL OTHER PARTS AND COMPONENTS OF THE DOMESTIC WATER SYSTEM AS PER ASTM A-380.</p> <p>5 INSULATION</p> <p>1 QUALIFICATIONS: EXECUTE WORK OF THIS SECTION ONLY BY SKILLED TRADESMEN REGULARLY EMPLOYED IN THE APPLICATION OF INSULATION OF MECHANICAL SYSTEMS.</p> <p>2 PROVIDE PIPE AND DUCTWORK INSULATION WITH MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPMENT CLASSIFICATION OF 50.</p> <p>3 THE WORD "EXPOSED" WHERE USED IN THIS SECTION MEANS ANY WORK WHICH IS NOT CONCEALED IN WALL, SHAFT, OR CEILING CAVITIES OR SPACES. WORK BEHIND DOORS IN CLOSETS OR CUPBOARDS OR UNDER COUNTERS IS CONSIDERED EXPOSED.</p> <p>4 CONCEALED INSULATED ITEMS REQUIRE NO FURTHER FINISH THAN PROVIDED IN FACTORY APPLIED JACKET. COVER EXPOSED INSULATION AND ALL INSULATED EQUIPMENT WITH CANVAS, FIELD APPLIED, ADHERED AND LAP SEALED AND FINISHED OFF BY A BRUSH COAT OF APPROVED SIZING. PAINT AND LABEL CANVAS AS NOTED IN SPECIFICATIONS OR DRAWINGS.</p> <p>5 PROVIDE EXTERNAL DUCTWORK INSULATION IN THICKNESS AS LISTED BELOW:</p> <p>1 ALL SUPPLY AIR DUCTWORK FROM VAV TERMINAL OUTLET DELIVERING AIR AT TEMPERATURES LESS THAN 18°C (64°F) OR AT 18°C(64°F)</p> <p>2 PROVIDE 25 MM (1") THICK FOR SYSTEMS WITH 18°C (64°F) OR LESS AIR SUPPLY TEMPERATURE.</p> <p>3 PROVIDE 40 MM (1-1/2") THICK FOR SYSTEMS WITH 30°C (86°F) OR GREATER AIR SUPPLY TEMPERATURE.</p> <p>4 WHERE SPECIFICALLY NOTED ON DRAWINGS THAT COULD BE AN EXCEPTION TO THE FOREGOING.</p> <p>6 EXCEPTIONS - EXTERNAL DUCT INSULATION IS NOT REQUIRED WHERE:</p> <p>1 SUPPLY AIR DUCTWORK INSTALLED EXPOSED WITHIN CONDITIONED SPACE.</p> <p>2 ACOUSTIC TYPE FLEXIBLE DUCTWORK IS USED.</p> <p>7 SUPPLY AIR DUCTWORK INSTALLED CONCEALED IN CEILING SPACES, WHETHER USED AS RETURN AIR PLENUMS OR NOT, IS TO BE TOTALLY INSULATED.</p> <p>8 PRE-MOLDED PIPE INSULATION:</p> <p>1 SECTIONAL FIBREGLASS IN PRE-MOLDED SECTIONS 900 MM (36") LONG SPLIT AND READY FOR APPLICATION WITH MAXIMUM K FACTOR OF 0.035 AT 24°C (75°F) MEAN TEMPERATURE AND CAPABLE OF USE ON SERVICE FROM -40°C (-40°F) TO 260°C (500°F) AND WITH FACTORY APPLIED VAPOUR SEAL JACKET OF VINYL COATED FOIL CRAFT LAMINATE WITH REINFORCING OF OPEN MESH GLASS FIBRE.</p> <p>2 DOMESTIC HOT WATER:</p>	
		<p>1 25MM (1") PRE-MOLDED FOR PIPE UP TO AND INCLUDING 50MM (2").</p> <p>2 40 MM (1 1/2") FOR 65MM (2 1/2") PIPE AND GREATER.</p> <p>3 DOMESTIC COLD WATER:</p> <p>1 12MM (1/2") PRE-MOLDED 40MM (1 1/2") PIPE AND BELOW.</p> <p>2 25MM (1") PRE-MOLDED FOR 50MM (2") PIPE TO 150MM (6") PIPE.</p> <p>3 40MM (1 1/2") PRE-MOLDED FOR 200MM (8") PIPE AND GREATER.</p> <p>4 DOMESTIC HOT WATER RECIRCULATION:</p> <p>1 25MM (1") PRE-MOLDED FOR PIPE UP TO AND INCLUDING 31MM (1 1/4").</p> <p>2 40 MM (1 1/2") FOR 40MM (1 1/2") PIPE AND GREATER.</p> <p>5 HEATING SYSTEM PIPING (DESIGN OPERATING TEMPERATURE BELOW 93°C):</p> <p>1 40MM (1 1/2") PRE-MOLDED 31MM (1 1/2") PIPE AND BELOW.</p> <p>2 50MM (2") PRE-MOLDED FOR 40MM (1 1/2") PIPE AND GREATER.</p> <p>6 HEATING SYSTEM PIPING (DESIGN OPERATING TEMPERATURE ABOVE 93°C):</p> <p>1 65MM (2 1/2") PRE-MOLDED 75MM (3") PIPE AND BELOW.</p> <p>2 75MM (3") PRE-MOLDED FOR 100MM (4") PIPE AND GREATER.</p> <p>6 HEATING, VENTILATION AND AIR-CONDITIONING (HVAC)</p> <p>1 PROVIDE RECTANGULAR AND ROUND DUCTWORK CONSTRUCTED OF ASTM A525 HOT DIP GALVANIZED STEEL SHEETS IN ARRANGEMENTS AS SHOWN ON THE DRAWINGS. COMPLETE WITH REINFORCEMENT, HANGING METHODS, JOINTS, SEAMS AND FITTINGS AS SPECIFIED IN SECTIONS 1 THROUGH 5 AS WELL AS APPENDICES A-1 THROUGH A-32 IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE LATEST VERSION IN ACCORDANCE WITH SMACNA AND ASHRAE STANDARDS. SEAL ALL TRANSVERSE JOINTS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WITH HIGH VELOCITY DUCT SEALER (BAKELITE 530-09 OR EQUIVALENT). DUCT TAPE NOT ACCEPTABLE.</p> <p>2 FLEXIBLE DUCTWORK: PROVIDE, WHERE INDICATED ON THE DRAWINGS, FLEXIBLE DUCTING BEARING ULC-181 CLASS 1 LABEL, INSULATED ACOUSTIC, AS MANUFACTURED BY FLEXMASTER, ALPHA INDUSTRIES, OR THERMAFLEX ARE ACCEPTABLE ALTERNATIVE MANUFACTURERS. USE FLEXMASTER MODEL TL-AMG INSULATED ACOUSTIC FLEXIBLE DUCTS. FLEXIBLE ACOUSTIC DUCT SHALL HAVE A PERFORATED CORE WITH 20-25% OPEN AREA AND BE SPIRALLY WOUND FROM DEAD SOFT ALUMINUM UTILIZING A CONTINUOUS THREE PLY MECHANICAL LOCK WITHOUT THE USE OF ADHESIVES. THE PERFORATED DUCT SHALL BE SLEEVED WITH A SEAMLESS ACOUSTIC POLYETHYLENE LINER, WRAPPED WITH MINIMUM R4.2 FIBREGLASS INSULATION AND COVERED BY FLAME RETARDANT SCRM FOIL OR POLYETHYLENE VAPOUR BARRIER.</p> <p>3 INSTALL WHERE INDICATED AND IN ACCORDANCE WITH PREFERRED METHOD OF SMACNA AND THE FOLLOWING:</p> <p>1 PROVIDE A MINIMUM OF THREE (3) #8 STEEL METAL SCREWS EQUALLY SPACED TO HOLD THE FLEXIBLE DUCT.</p> <p>2 FOR DUCT SIZES ABOVE 300 MM (12"), PROVIDE A MINIMUM OF FIVE (5) #8 SHEET METAL SCREWS EQUALLY SPACED TO HOLD THE FLEXIBLE DUCT.</p> <p>1 SCREWS SHALL BE LOCATED AT LEAST 1/2" (12 MM) FROM THE END OF THE DUCT.</p> <p>2 THE COLLAR TO WHICH THE FLEXIBLE DUCT IS ATTACHED SHALL BE A MINIMUM 2" (50 MM) IN LENGTH.</p> <p>3 SUPPORT SHALL BE IN ACCORDANCE WITH SMACNA.</p> <p>3 LENGTH - CLASS 1 DUCTWORK</p> <p>1 MINIMUM LENGTH OF FLEXIBLE DUCT: 1500 MM (5 FT.).</p> <p>2 MAXIMUM LENGTH OF FLEXIBLE DUCT: 3600 MM (12 FT.).</p> <p>3 MINIMUM LENGTH OF FLEXIBLE DUCT CONNECTING TO LIGHT FIXTURE TROFFERS OR CEILING DIFFUSERS SHALL BE 72" (1800 MM).</p> <p>4 DIFFUSER BRANCH DUCTS: PROVIDE SPIN-ON CONNECTORS COMPLETE WITH BALANCING DAMPER AT TAKE-OFF FROM MAIN DUCT.</p> <p>5 DURING INSTALLATION OF DUCTWORK, PROTECT OPEN ENDS OF DUCTS TO PREVENT ENTRY OF DEBRIS AND DUST.</p> <p>6 NEW DIFFUSERS AND GRILLES TO BE AS MANUFACTURED BY NALOR INDUSTRIES. REFER TO SCHEDULE ON PLAN. APPROVED EQUAL IS ACCEPTABLE.</p> <p>7 PROVIDE AIR BALANCING DAMPER FOR EACH TEE-OFF BRANCH DUCT.</p> <p>8 WHERE INTERFERS OF DUCT IS VISIBLE THROUGH GRILLES, REGISTERS OR DIFFUSERS, PAINT INTERIOR OF DUCT WITH FLAT BLACK THERMAC PAINT FORMULATED FOR GALVANIZED SURFACES.</p> <p>9 COVER OPEN END OF REGISTERS OR ACTIVE RETURN OR EXHAUST AIR DUCTS WITH 25 MM (1") THICK FILTER MEDIA SECURED BY METAL BAND PULLED TIGHT AROUND DUCT. MAINTAIN THIS CONDITION UNTIL PLASTERING, DRYWALL AND OTHER FINISHING OPERATIONS ARE COMPLETE.</p> <p>10 ALL DISSIMILAR PIPING CONNECTIONS TO HAVE DIELECTRIC ISOLATORS.</p> <p>11 EXISTING EQUIPMENT: VERIFY WITH FACILITIES MANAGER THAT EXISTING EQUIPMENT AND CONTROLS ARE MAINTAINED AND OPERATING AS ORIGINALLY DESIGNED.</p> <p>12 ALL</p>	









GENERAL NOTES

- CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES WITH CONTRACT DOCUMENTS TO THE CONSULTANT.
- MAINTAIN ACCESS AND INTEGRITY OF FIRE EXITS AT ALL TIMES.
- CONTRACTOR IS TO REVIEW & FOLLOW THE HOSPITAL'S CONSTRUCTION GUIDELINES PRIOR TO COMMENCEMENT OF ANY WORK. ALL NOISE AND NOXIOUS WORK TO BE DONE AFTER HOURS AND ARRANGED WITH HOSPITAL BEFOREHAND.
- DETERMINE THE EXTENT OF DEMOLITION AND PROVIDE THE NECESSARY PROTECTION TO ADJACENT AREAS NOT AFFECTED BY THIS CONTRACT.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPAIR DAMAGES TO THE PREMISES RESULTING FROM DEMOLITION / CONSTRUCTION WORK.
- ENSURE THAT ALL REQUIRED FIRE SEPARATIONS ARE MAINTAINED IN WALLS, CEILINGS, FLOORS, AND INTERSTITIAL.
- REFER TO DWGS. FOR SALVAGED ITEMS NOT BEING REUSED IN THE RENOVATION TO BE RETURNED TO OWNER. IN ADDITION, CONSULT WITH OWNER'S REPRESENTATIVE FOR OTHER SALVAGED ITEMS TO BE RETURNED TO OWNER. ALL OTHER ITEMS TO BE DEMOLISHED OR REMOVED BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST TO BE REMOVED FROM THE SITE.
- ALL EQUIPMENT, OR BUILDING MATERIALS INDICATED ON THE DRAWINGS TO BE RELOCATED OR RE-USED SHALL BE CAREFULLY REMOVED, SAFELY STORED, REPAIRED AS NEEDED AND RE-INSTALLED BY CONTRACTOR.
- ALL WORK TO CONFORM TO EXISTING BY-LAWS, CODES AND AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR TO REPAIR / REPLACE ANY EXISTING FINISHES DENOTES TO REMAIN, INCLUDING BUT NOT EXCLUSIVELY SUSPENDED CEILING TILES, CEILING GRID OR GYPSUM BOARD CEILING, DAMAGED BY CONSTRUCTION. TOUCH-UP PAINTED SURFACES AFTER COMPLETION OF ALL INSTALLATION.
- CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF RUBBISH OR DEBRIS DURING CONSTRUCTION AND SHALL LEAVE THE PREMISES CLEAN UPON COMPLETION OF WORK. COORDINATE RUBBISH AND DEBRIS REMOVAL WITH THE BUILDING MANAGEMENT.
- PROVIDE FIRE STOP SYSTEMS AT OPENINGS AND GAPS AROUND DUCTS/ PIPES/ ELECTRICAL PENETRATION IN FLOORS, AND FIRE RATED PARTITIONS TO MAINTAIN INTEGRITY OF FIRE SEPARATION. USE ULC LISTED FIRE STOP PRODUCTS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- FIRESTOP ALL NEW AND EXISTING PENETRATIONS IN EXISTING FIRE RATED FLOOR ASSEMBLIES AND PARTITIONS.
- CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD EXISTING CEILING / WALLS AND MAKE READY FOR NEW FINISH.
- DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE LEGISLATION.
- HEATING WATER SUPPLY / RETURN PIPING TO THE FLOOR ABOVE DOES NOT SHOWN IN THE DRAWINGS, PLEASE REFER TO EXISTING DRAWINGS FOR INFORMATION.
- CONDUCT FIRE CONSTRUCTION AIR AND WATER AUDIT FOR ALL EXISTING INDUCTION UNIT, GRILLES, REGISTER AND DIFFUSERS. TRAVERSE AT LEVEL 3, MAINS ON SD LEVEL, CIRCUIT BALANCE VALVES, RECORD FAN SPEEDS, TAKE READINGS AT EACH SECTION, AND PROVIDE TO THE CONSULTANT FOR REVIEW.

KEY NOTES

- REMOVE EXISTING GRILLE, REGISTER OR DIFFUSER COMPLETE WITH ASSOCIATED DUCTWORK, AND ALL ACCESSORIES, CUT BACK AS INDICATED.
- REMOVE EXISTING THERMOSTAT.
- REMOVE EXISTING REHEAT COIL COMPLETE WITH ALL ACCESSORIES AND PNEUMATIC CONTROLS. CUT BACK ASSOCIATED HEATING WATER SUPPLY AND RETURN PIPE AND CAP AT MAIN.
- REMOVE EXISTING INDUCTION UNIT COVER. REMOVE AND REINSTALL EXISTING INDUCTION UNIT AS REQUIRED FOR WINDOW REPLACEMENT, INCLUDING ALL NECESSARY DISCONNECTION AND RECONNECTION OF DUCTWORK, PIPING, AND CONTROLS.
- REMOVE EXISTING FIRE DAMPER.
- REMOVE EXISTING WALL FIN UNIT COMPLETE WITH ALL ACCESSORIES AND CONTROLS. CUT BACK ASSOCIATED HEATING WATER SUPPLY AND RETURN PIPE AND CAP AT MAIN.

SHEET ISSUANCE

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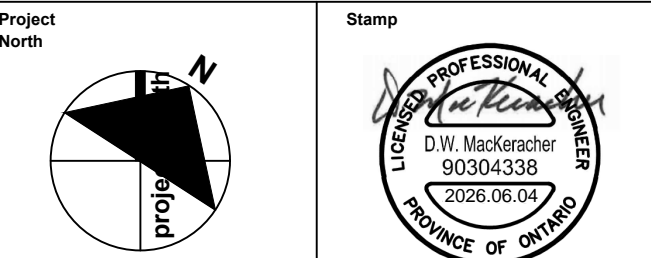
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4	ISSUED FOR TENDER AND PERMIT	04.06.26
3	ISSUED FOR CLIENT REVIEW	29.05.26
2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:  
**SCARBOROUGH  
HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

Project Title:  
**SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A**

Sheet Title:  
**HVAC DEMOLITION PLAN**



Date: <b>APR 2025</b>	Project No.: <b>24002-02</b>	
Scale: <b>1:75</b>	Drawn: <b>SC</b>	Checked: <b>MC</b>

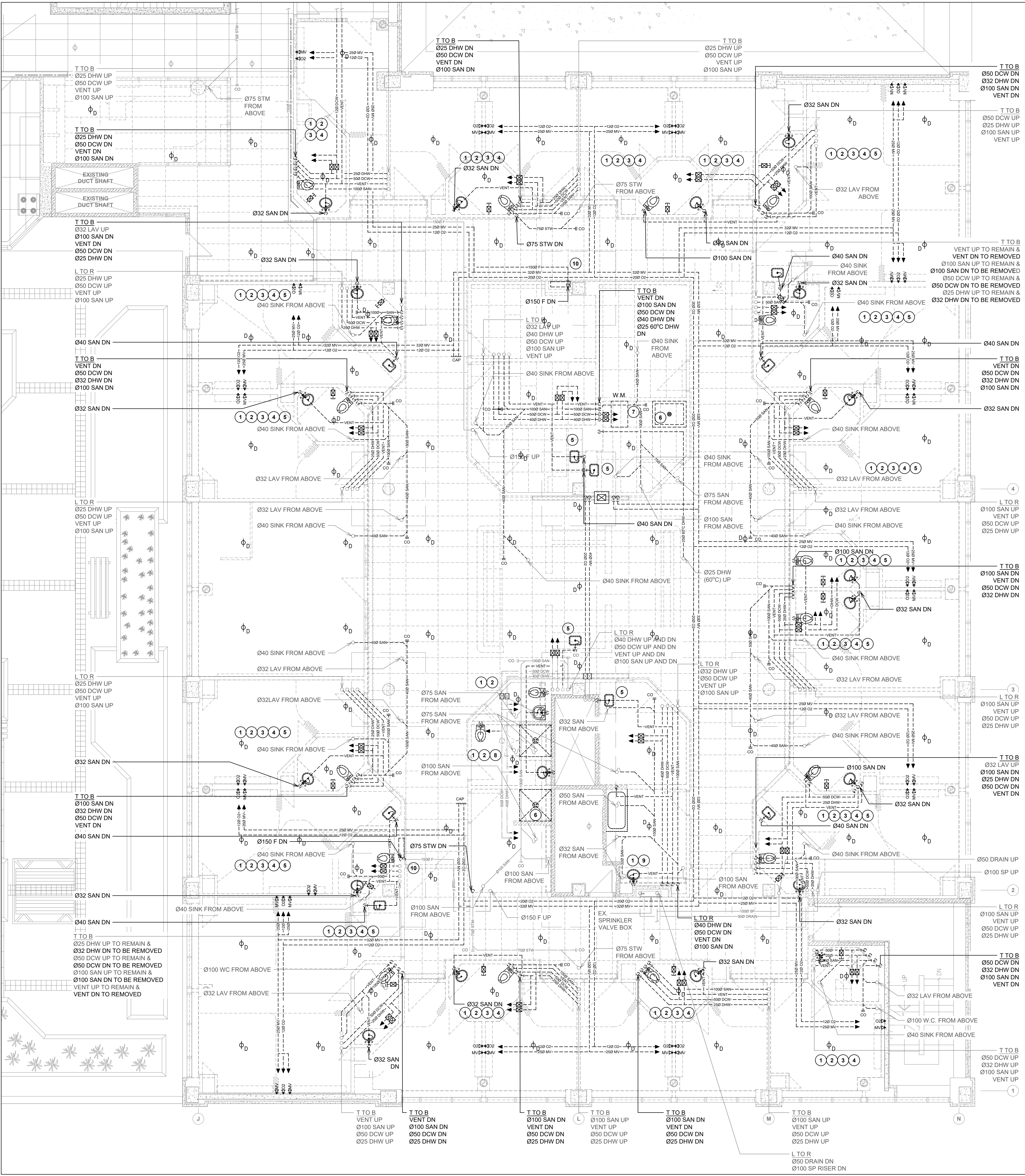
Drawing Number:

M-100









## GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES WITH CONTRACT DOCUMENTS TO THE CONSULTANT.
2. MAINTAIN ACCESS AND INTEGRITY OF FIRE EXITS AT ALL TIMES.
3. CONTRACTOR IS TO REVIEW & FOLLOW THE HOSPITAL'S CONSTRUCTION GUIDELINES PRIOR TO COMMENCEMENT OF ANY WORK. ALL NOISE AND NOXIOUS WORK TO BE DONE AFTER HOURS AND ARRANGED WITH HOSPITAL BEFOREHAND.
4. DETERMINE THE EXTENT OF DEMOLITION AND PROVIDE THE NECESSARY PROTECTION TO ADJACENT AREAS NOT AFFECTED BY THIS CONTRACT.
5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPAIR DAMAGES TO THE PREMISES RESULTING FROM DEMOLITION / CONSTRUCTION WORK.
6. ENSURE THAT ALL REQUIRED FIRE SEPARATIONS ARE MAINTAINED IN WALLS, CEILINGS, FLOORS, AND INTERSTITIAL.
7. REFER TO DWGS. FOR SALVAGED ITEMS NOT BEING REUSED IN THE RENOVATION TO BE RETURNED TO OWNER. IN ADDITION, CONSULT WITH OWNER'S REPRESENTATIVE FOR OTHER SALVAGED ITEMS TO BE RETURNED TO OWNER. ALL OTHER ITEMS TO BE DEMOLISHED OR REMOVED BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE SITE.
8. ALL EQUIPMENT, OR BUILDING MATERIALS INDICATED ON THE DRAWINGS TO BE RELOCATED OR RE-USED SHALL BE CAREFULLY REMOVED, SAFELY STORED, REPAIRED AS NEEDED AND RE-INSTALLED BY CONTRACTOR.
9. ALL WORK TO CONFORM TO EXISTING BY-LAWS, CODES AND AUTHORITIES HAVING JURISDICTION.
10. CONTRACTOR TO REPAIR / REPLACE ANY EXISTING FINISHES DENOTES TO REMAIN, INCLUDING BUT NOT EXCLUSIVELY SUSPENDED CEILING TILES, CEILING GRID OR GYPSUM BOARD CEILING, DAMAGED BY CONSTRUCTION. TOUCH-UP PAINTED SURFACES AFTER COMPLETION OF ALL INSTALLATION.
11. CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF RUBBISH OR DEBRIS DURING CONSTRUCTION AND SHALL LEAVE THE PREMISES CLEAN UPON COMPLETION OF WORK. COORDINATE RUBBISH AND DEBRIS REMOVAL WITH THE BUILDING MANAGEMENT.
12. PROVIDE FIRE STOP SYSTEMS AT OPENINGS AND GAPS AROUND DUCTS/ PIPES/ ELECTRICAL PENETRATION IN FLOORS, AND FIRE RATED PARTITIONS TO MAINTAIN INTEGRITY OF FIRE SEPARATION. USE ULC LISTED FIRE STOP PRODUCTS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
13. FIRESTOP ALL NEW AND EXISTING PENETRATIONS IN EXISTING FIRE RATED FLOOR ASSEMBLIES AND PARTITIONS.
14. CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD EXISTING CEILING / WALLS AND MAKE READY FOR NEW FINISH.
15. DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE LEGISLATION.
16. REMOVE EXISTING SPRINKLER HEADS, CUT BACK AND CAP ASSOCIATED PIPING AT MAIN FOR NEW CONNECTION. REFER TO NEW WORK PLAN.
17. CONDUCT PRE CONSTRUCTION WATER AUDIT FOR ALL CIRCUIT BALANCE VALVES AND PROVIDE TO THE CONSULTANT FOR REVIEW.

## KEY NOTES

1. REMOVE EXISTING WATER CLOSET. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
2. REMOVE EXISTING LAVATORY. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
3. REMOVE EXISTING WALL MOUNTED BEDPAN WASHER. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
4. REMOVE EXISTING MEDICAL GAS OUTLETS AND ASSOCIATED OXYGEN AND MEDICAL VACUUM PIPING AND CAP AT MAIN.
5. REMOVE EXISTING SINK. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
6. REMOVE EXISTING MOP SINK. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
7. REMOVE EXISTING WASHING MACHINE. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
8. REMOVE EXISTING SHOWER. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
9. REMOVE EXISTING BATH TUB. CUT BACK ALL ASSOCIATED PLUMBING, DRAIN, WASTE AND VENT PIPING AND CAP AT MAIN.
10. REMOVE EXISTING FIRE HOSE CABINET. CUT BACK ALL ASSOCIATED FIRE PROTECTION PIPING AND CAP AT MAIN.

## SHEET ISSUANCE

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Client:

**SCARBOROUGH  
HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

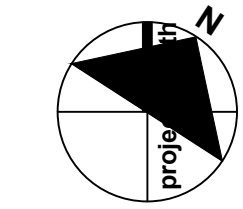
Project Title:

**SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A**

Sheet Title:

**PLUMBING, MEDICAL GAS  
AND FIRE PROTECTION  
DEMOLITION PLAN**

Project  
North



Stamp



Date:  
**APR 2025**

Project No.:  
**24002-02**

Scale:  
**1:75**

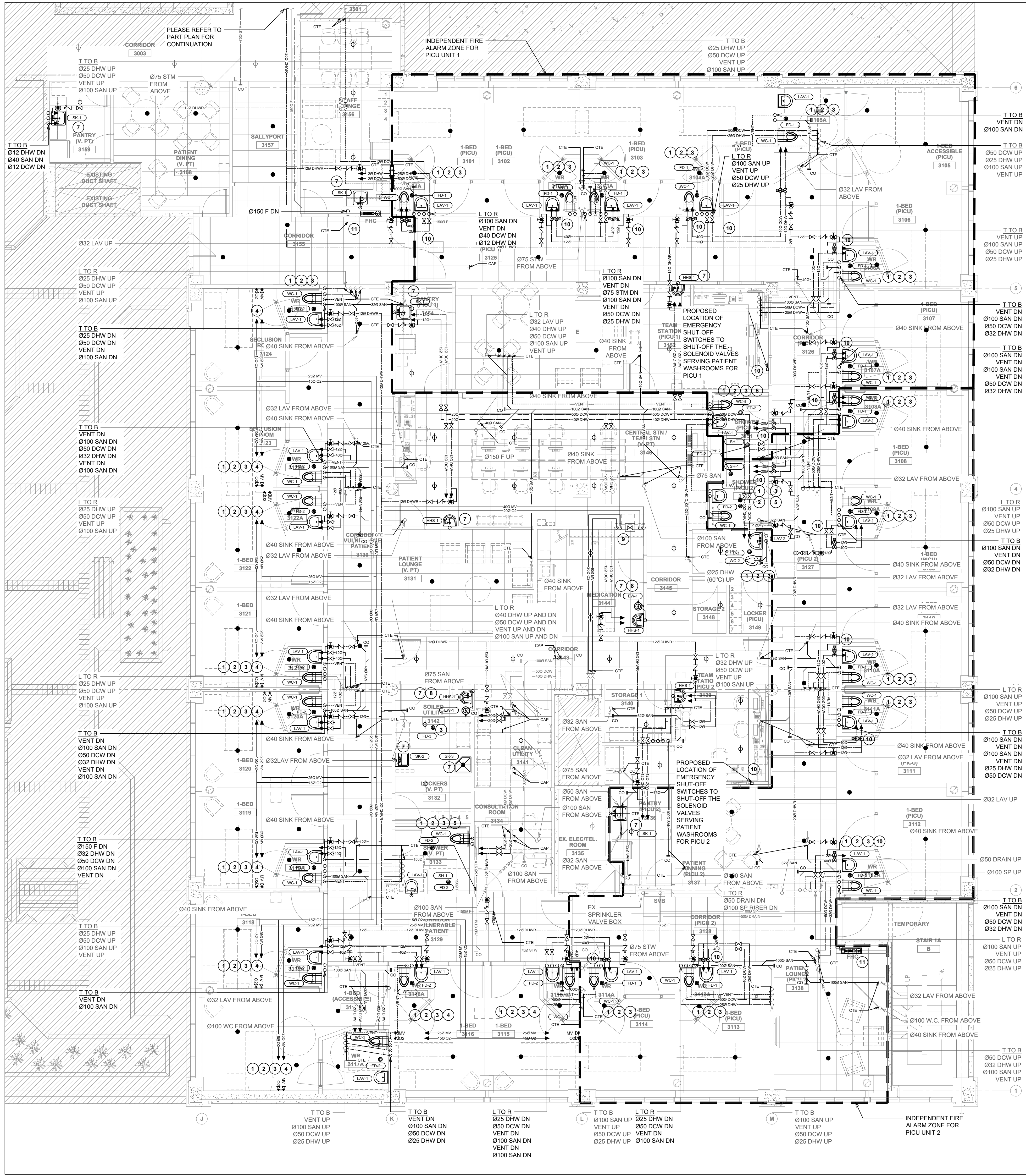
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Drawing Number:

**M-200**





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- CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD EXISTING CEILING / WALLS AND MAKE READY FOR NEW FINISH.
- DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE LEGISLATION.
- PROVIDE ACCESS PANELS FOR ALL CONCEALED MECHANICAL COMPONENTS REQUIRING MAINTENANCE OR INSPECTION, INCLUDING BUT NOT LIMITED TO: SHUT-OFF VALVES, DAMPER ACTUATORS, CAV BOXES, AND CLEANOUTS. COORDINATE EXACT LOCATIONS AND SIZES WITH ALL APPLICABLE TRADES PRIOR TO INSTALLATION. ANTI-LIGATURE SECURITY ACCESS PANELS IN PATIENT ACCESSIBLE AREAS SHALL BE TAMPER-RESISTANT WITH CONCEALED HINGES AND KEYS SECURITY LOCKS, WHILE NEW STANDARD FLUSH ACCESS PANELS SHALL BE USED IN NON-PATIENT ACCESSIBLE AREAS (REFER TO ARCHITECTURAL DRAWINGS FOR DEMARCATION). ALL PANELS SHALL MATCH THE FIRE-RATING OF THE ADJACENT WALL OR CEILING ASSEMBLY IN ACCORDANCE WITH NFPA AND LOCAL BUILDING CODES.
- SUPPLY AND INSTALL NEW ANTI-LIGATURE SPRINKLER HEADS IN PATIENT ACCESSIBLE AREA AND NEW CONCEALED SPRINKLER HEADS IN NON PATIENT ACCESSIBLE AREA (REFER TO ARCHITECTURAL DRAWINGS FOR DEMARCATION) IN ACCORDANCE WITH NEPA STANDARD 13 BASED ON A LIGHT HAZARD CLASSIFICATION. EXTEND AND CONNECT ALL NEW INSTALLATIONS TO EXISTING SPRINKLER PIPING. FIRE PROTECTION ENGINEER TO PERFORM HYDRAULIC CALCULATIONS. PRIOR TO INSTALLATION, ALL WORK SHALL COMPLY WITH SPECIFICATION SECTION 9 AND BE COMPLETED BY BASE BUILDING CONTRACTOR - CLASSIC FIRE (CONTACT: BLAIR SARGINSON, BSARGINSON@CLASSICFELS.COM).
- REFER TO M-400 & M-401 FOR PROPOSED PHASING PLANS (TO BE FINALIZED BY CONTRACTOR AND APPROVED BY OWNER).

01 PLUMBING NEW WORK PART PLAN  
M-201 1:75

KEY NOTES

- PROVIDE NEW WATER CLOSET AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, SANITARY AND VENT PIPING.
  - PROVIDE NEW LAVATORY AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
  - PROVIDE NEW FLOOR DRAIN AS SPECIFIED. CONNECT TO EXISTING WASTE AND VENT PIPING.
  - PROVIDE NEW MEDICAL GAS OUTLETS. CONNECT TO EXISTING OXYGEN AND MEDICAL VACUUM PIPING. GAS WORK SHALL BE COMPLETED BY BASE BUILDING CONTRACTOR - AIR LIQUIDE HEALTHCARE. (CONTACT: FAIZAL QUERSHI, 416-702-5177, FAISAL.QUERSHI@AIRLIQUIDE.COM).
  - PROVIDE NEW SHOWER AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
  - NOT USED.
  - PROVIDE NEW SINK AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
  - PROVIDE NEW EYEWASH AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
  - PROVIDE NEW ZONE VALVE BOX FOR MEDICAL GAS. GAS WORK SHALL BE COMPLETED BY BASE BUILDING CONTRACTOR - AIR LIQUIDE HEALTHCARE. (CONTACT: FAIZAL QUERSHI, 416-702-5177, FAISAL.QUERSHI@AIRLIQUIDE.COM).
  - PROVIDE NEW DOMESTIC HOT AND COLD WATER SOLENOID VALVES, NORMALLY OPEN, SUITABLE FOR POTABLE WATER SERVICE. WIRE SOLENOID VALVES BACK TO THE EMERGENCY SHUT-OFF MAIN SWITCH LOCATED IN THE NURSE STATION. LOCATE SOLENOID VALVES IN THE CORRIDOR TO PERMIT EASY ACCESS. PROVIDE A BYPASS LOOP WITH MANUAL ISOLATION VALVES FOR SERVICING.
  - PROVIDE NEW FIRE HOSE CABINET AS SPECIFIED BELOW. CONNECT TO EXISTING FIRE PROTECTION PIPING. ALL WORK SHALL BE COMPLETED BY BASE BUILDING CONTRACTOR - CLASSIC FIRE (CONTACT: BLAIR SARGINSON, BSARGINSON@CLASSICFELS.COM).
- DESCRIPTION: MAXIMUM SECURITY HOSE CABINET  
SUPPLIER: NATIONAL FIRE EQUIPMENT LTD.
- STANDARD PRODUCT SPECIFICATIONS:  
- 10 GA. FULL METAL ADJUSTABLE FRONTS. REINFORCED DOOR, 1/4" RETURN ON DOOR - GREY POWDER COATED PAINT.  
- 10 GA. PAINTED TUBS - GREY  
- HINGES: MODEL 8007 SECURITY HINGE  
- LOCK: MODEL 7010 HIGH SECURITY MECHANICAL DEADBOLT LOCK.  
- LOCK: FIRE EXTINGUISHER CABINETS USE MODEL 7017 COMPACT SECURITY LOCK.

**HANSON + JUNG**  
ARCHITECTS INC  
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toronto ontario m5v 3e7  
t 416.340.7373 f 416. 340.0005  
hjarchitects.ca

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207 Queen's Quay West, Suite 615  
Toronto, Ontario, M5J 1A7  
Tel: 416-598-2900  
Fax: 416-598-5394  
www.mcw.com

SHEET ISSUANCE

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4	ISSUED FOR TENDER AND PERMIT	04.06.26
3	ISSUED FOR CLIENT REVIEW	29.05.26
2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:  
**SCARBOROUGH**  
**HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

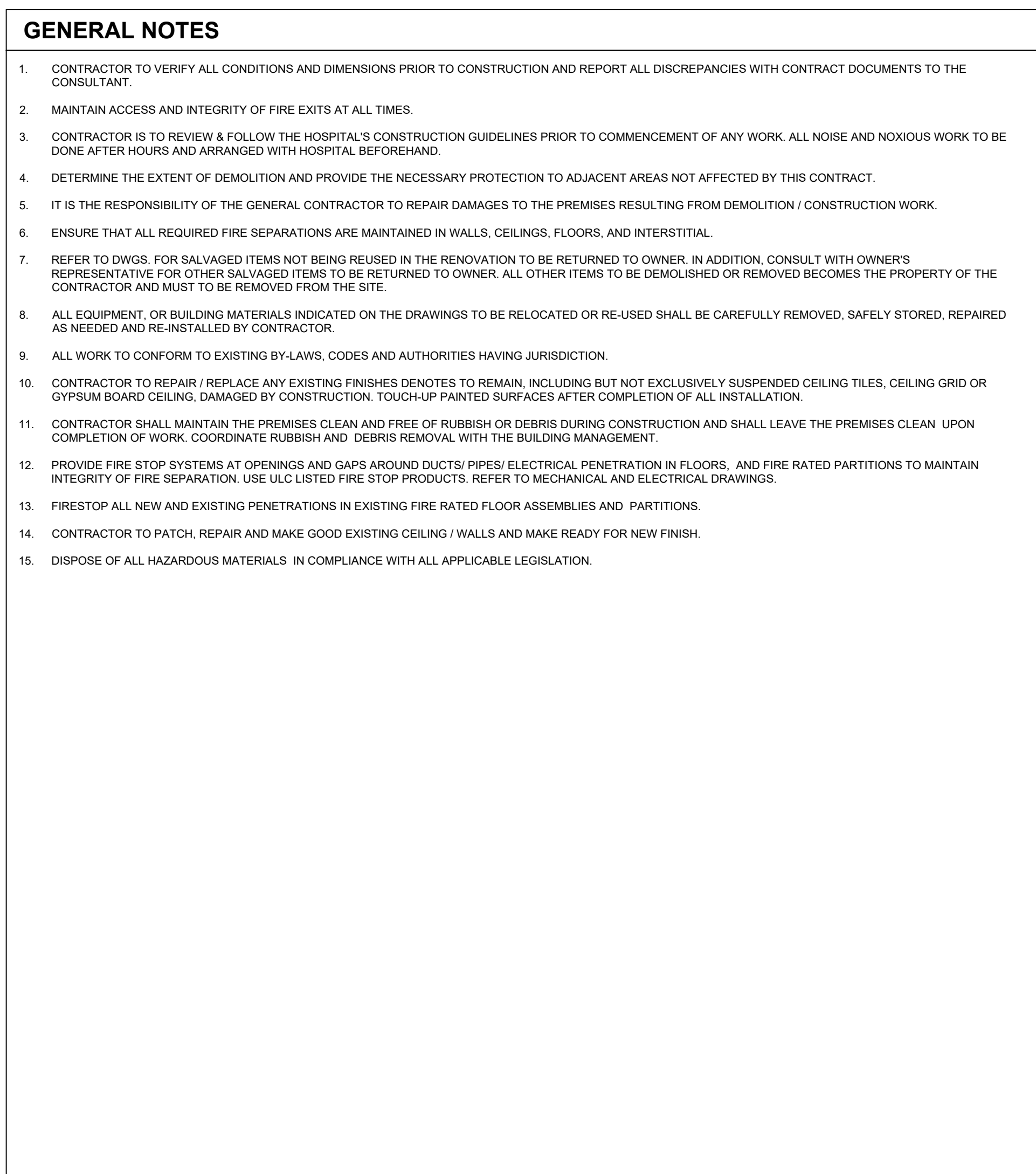
Project Title:  
**SHN MENTAL HEALTH**  
**INPATIENT CONSOLIDATION**  
**POD 3A**

Sheet Title:  
**PLUMBING, MEDICAL GAS**  
**AND FIRE PROTECTION**  
**NEW WORK PLAN**

Project North	Stamp
Date: <b>APR 2025</b>	Project No.: <b>24002-02</b>
Scale: <b>1:75</b>	Drawn: <b>SC</b>
Drawing Number:	Checked: <b>MC</b>

M-201





SHEET ISSUANCE		
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1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:

**SCARBOROUGH  
HEALTH NETWORK**

**3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON**



## SHN MENTAL HEALTH

### INPATIENT CONSOLIDATION

#### POD 3A

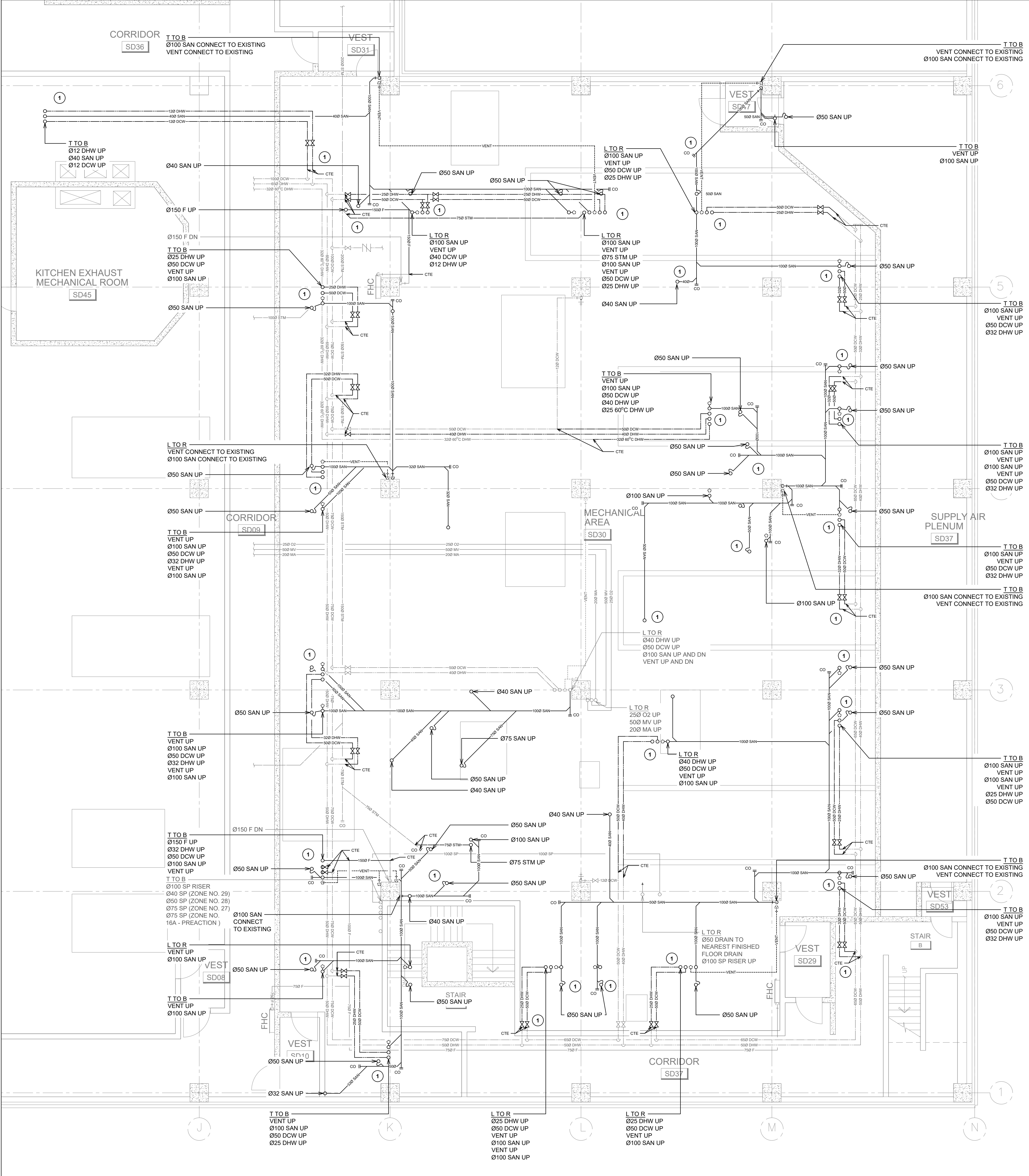
Sheet Title:

**PLUMBING AND FIRE PROTECTION  
DEMOLITION PLAN - SD LEVEL**

<p>Project North</p> 	<p>Stamp</p> 	
<p>Date:</p> <p><b>APR 2025</b></p>	<p>Project No.:</p> <p><b>24002-02</b></p>	
<p>Scale:</p> <p><b>1:75</b></p>	<p>Drawn:</p> <p><b>SC</b></p>	<p>Checked:</p> <p><b>MC</b></p>

# M-300





GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES WITH CONTRACT DOCUMENTS TO THE CONSULTANT.
2. MAINTAIN ACCESS AND INTEGRITY OF FIRE EXITS AT ALL TIMES.
3. CONTRACTOR IS TO REVIEW & FOLLOW THE HOSPITAL'S CONSTRUCTION GUIDELINES PRIOR TO COMMENCEMENT OF ANY WORK. ALL NOISE AND NOXIOUS WORK TO BE DONE AFTER HOURS AND ARRANGED WITH HOSPITAL BEFOREHAND.
4. DETERMINE THE EXTENT OF DEMOLITION AND PROVIDE THE NECESSARY PROTECTION TO ADJACENT AREAS NOT AFFECTED BY THIS CONTRACT.
5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPAIR DAMAGES TO THE PREMISES RESULTING FROM DEMOLITION / CONSTRUCTION WORK.
6. ENSURE THAT ALL REQUIRED FIRE SEPARATIONS ARE MAINTAINED IN WALLS, CEILINGS, FLOORS, AND INTERSTITIAL.
7. REFER TO DWGS. FOR SALVAGED ITEMS NOT BEING REUSED IN THE RENOVATION TO BE RETURNED TO OWNER. IN ADDITION, CONSULT WITH OWNER'S REPRESENTATIVE FOR OTHER SALVAGED ITEMS TO BE RETURNED TO OWNER. ALL OTHER ITEMS TO BE DEMOLISHED OR REMOVED BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST TO BE REMOVED FROM THE SITE.
8. ALL EQUIPMENT, OR BUILDING MATERIALS INDICATED ON THE DRAWINGS TO BE RELOCATED OR RE-USED SHALL BE CAREFULLY REMOVED, SAFELY STORED, REPAIRED AS NEEDED AND RE-INSTALLED BY CONTRACTOR.
9. ALL WORK TO CONFORM TO EXISTING BY-LAWS, CODES AND AUTHORITIES HAVING JURISDICTION.
10. CONTRACTOR TO REPAIR / REPLACE ANY EXISTING FINISHES DENOTES TO REMAIN, INCLUDING BUT NOT EXCLUSIVELY SUSPENDED CEILING TILES, CEILING GRID OR GYPSUM BOARD CEILING, DAMAGED BY CONSTRUCTION. TOUCH-UP PAINTED SURFACES AFTER COMPLETION OF ALL INSTALLATION.
11. CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF RUBBISH OR DEBRIS DURING CONSTRUCTION AND SHALL LEAVE THE PREMISES CLEAN UPON COMPLETION OF WORK. COORDINATE RUBBISH AND DEBRIS REMOVAL WITH THE BUILDING MANAGEMENT.
12. PROVIDE FIRE STOP SYSTEMS AT OPENINGS AND GAPS AROUND DUCTS/ PIPES/ ELECTRICAL PENETRATION IN FLOORS, AND FIRE RATED PARTITIONS TO MAINTAIN INTEGRITY OF FIRE SEPARATION. USE ULC LISTED FIRE STOP PRODUCTS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
13. FIRESTOP ALL NEW AND EXISTING PENETRATIONS IN EXISTING FIRE RATED FLOOR ASSEMBLIES AND PARTITIONS.
14. CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD EXISTING CEILING / WALLS AND MAKE READY FOR NEW FINISH.
15. DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE LEGISLATION.

KEY NOTES

1. CONNECT NEW FIRE PROTECTION, PLUMBING, WASTE, STORM AND VENT PIPING FROM ABOVE TO EXISTING AS INDICATED. REFER TO DRAWING M-400 AND M-401 FOR PHASING AND HVAC REMOVALS. COORDINATE WITH DIV 23.

SHEET ISSUANCE

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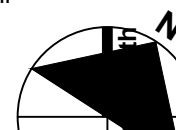

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Client:  
**SCARBOROUGH  
HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

Project Title:  
**SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A**

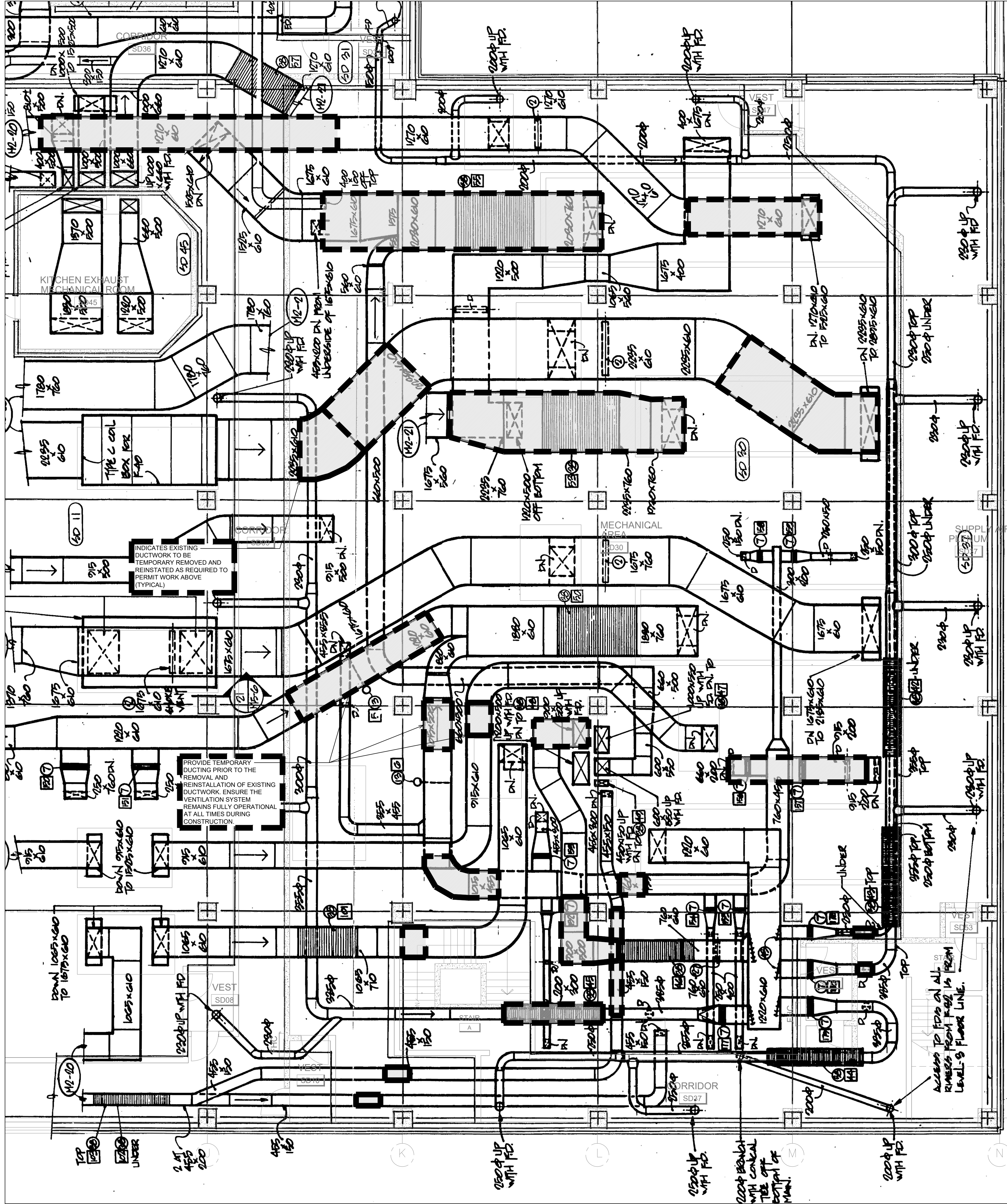
Sheet Title:  
**PLUMBING AND FIRE PROTECTION  
NEW WORK PLAN - SD LEVEL**

Project North 	Stamp 	
Date: <b>APR 2025</b>	Project No.: <b>24002-02</b>	
Scale: <b>1:75</b>	Drawn: <b>SC</b>	Checked: <b>MC</b>
Drawing Number:		



# M-400





GENERAL NOTES

- CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES WITH CONTRACT DOCUMENTS TO THE CONSULTANT.
- MAINTAIN ACCESS AND INTEGRITY OF FIRE EXITS AT ALL TIMES.
- CONTRACTOR IS TO REVIEW & FOLLOW THE HOSPITAL'S CONSTRUCTION GUIDELINES PRIOR TO COMMENCEMENT OF ANY WORK. ALL NOISE AND NOXIOUS WORK TO BE DONE AFTER HOURS AND ARRANGED WITH HOSPITAL BEFOREHAND.
- DETERMINE THE EXTENT OF DEMOLITION AND PROVIDE THE NECESSARY PROTECTION TO ADJACENT AREAS NOT AFFECTED BY THIS CONTRACT.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPAIR DAMAGES TO THE PREMISES RESULTING FROM DEMOLITION / CONSTRUCTION WORK.
- ENSURE THAT ALL REQUIRED FIRE SEPARATIONS ARE MAINTAINED IN WALLS, CEILINGS, FLOORS, AND INTERSTITIAL.
- REFER TO DWGS. FOR SALVAGED ITEMS NOT BEING REUSED IN THE RENOVATION TO BE RETURNED TO OWNER. IN ADDITION, CONSULT WITH OWNER'S REPRESENTATIVE FOR OTHER SALVAGED ITEMS TO BE RETURNED TO OWNER. ALL OTHER ITEMS TO BE DEMOLISHED OR REMOVED BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST TO BE REMOVED FROM THE SITE.
- ALL EQUIPMENT, OR BUILDING MATERIALS INDICATED ON THE DRAWINGS TO BE RELOCATED OR RE-USED SHALL BE CAREFULLY REMOVED, SAFELY STORED, REPAIRED AS NEEDED AND RE-INSTALLED BY CONTRACTOR.
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- PROVIDE FIRE STOP SYSTEMS AT OPENINGS AND GAPS AROUND DUCTS/ PIPES/ ELECTRICAL PENETRATION IN FLOORS, AND FIRE RATED PARTITIONS TO MAINTAIN INTEGRITY OF FIRE SEPARATION. USE ULC LISTED FIRE STOP PRODUCTS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- FIRESTOP ALL NEW AND EXISTING PENETRATIONS IN EXISTING FIRE RATED FLOOR ASSEMBLIES AND PARTITIONS.
- CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD EXISTING CEILING / WALLS AND MAKE READY FOR NEW FINISH.
- DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE LEGISLATION.
- REMOVE AND REINSTALL EXISTING DUCTWORK AS REQUIRED TO PERMIT INSTALLATION OF NEW PLUMBING. COORDINATE ON SITE.
- THIS PLAN HAS BEEN PREPARED TO IDENTIFY POTENTIAL SECTIONS OF EXISTING DUCTWORK THAT WILL NEED TO BE REMOVED AND RE-INSTALLED AS REQUIRED TO PERMIT WORK ABOVE. CONTRACTOR TO VERIFY EXACT SECTION LOCATIONS AND QUANTITIES ON SITE. ALLOW FOR TEMPORARY BY-PASS DUCTWORK (SIZE EQUIVALENT TO EXISTING) TO BE REMOVED AT COMPLETION OF WORK.

SHEET ISSUANCE

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NO	ACTION	DATE

Client:  
**SCARBOROUGH  
HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

Project Title:  
**SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A**

Sheet Title:  
**TEMPORARY HVAC ROUTING PLAN  
FOR PLUMBING DIVERSION - SD LEVEL**

<div>Project North</div> <div></div>	<div>Stamp</div> <div></div>
<div>Date:</div> <div>APR 2025</div>	<div>Project No.:</div> <div>24002-02</div>
<div>Scale:</div> <div>1:75</div>	<div>Drawn:</div> <div>SC</div> <div>Checked:</div> <div>MC</div>
<div>Drawing Number:</div>	

**M-401**



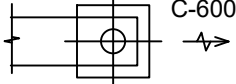
RADIATION SCHEDULE

REFERENCE	TYPE	kW/m	ROWS	SPEED	WATER FLOW (l/s)	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	FINS/FT	FIN SIZE	TUBE SIZE (mm)	POWER	PANEL	MODEL	DESCRIPTION / ENCLOSURE HEIGHT	MANUFACTURER	REMARKS:	NOTES:
RCP-1	RADIANT CEILING PANEL	0.3	4	-	0.032	1950	305	-	-	-	16	-	-	SLC	-	SIGMA	-	ANTI-LIGATURE - SECURITY ENCLOSURE WITH CAM LOCK
RCP-2	RADIANT CEILING PANEL	0.3	4	-	0.032	2210	305	-	-	-	16	-	-	SLC	-	SIGMA	-	ANTI-LIGATURE - SECURITY ENCLOSURE WITH CAM LOCK

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE

REFERENCE	FUNCTION	CONFIGURATION	MODEL NUMBER	MOUNTING TYPE	REMARKS:
SD-1	SUPPLY AIR	SQUARE PLAQUE DIFFUSER	EH PRICE - SPD - 600 X 600	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
SD-1A	SUPPLY AIR	MAXIMUM SECURITY RISK RESISTANT CEILING DIFFUSER	EH PRICE - MSRRCD - 600 X 600	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-1	EXHAUST AIR	EGGCRATE GRILLE	EH PRICE - 80 - 600 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-1A / RG-1A	EXHAUST AIR / RETURN AIR	PERFORATED FACE SECURITY GRILLE	EH PRICE - MSPG - 600 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-2	EXHAUST AIR	EGGCRATE GRILLE	EH PRICE - 80 - 300 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-2A	EXHAUST AIR	PERFORATED FACE SECURITY GRILLE	EH PRICE - MSPG - 300 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE

\* FOR SUITE FAN AND R/A GRILLES REFER TO MANUFACTURER

SYMBOL CLARIFICATION	 C-600x600-500	C - DIFFUSER/GRILLE TYPE 600x600 - GRILLE SIZE 500 - AIR QUANTITY L/S	NOTES: 1 - PROVIDE OPPOSED BLADE DAMPER 2 - PROVIDE CABLE OPERATED BALANCING DAMPER
SELECTION BASED ON    EH   PRICE			

CONSTANT VOLUME BOX W/ REHEAT COIL SCHEDULE









REFERENCE	INLET SIZE (MM)	AIR QUANTITY (L/S)	MAX. N.C. LEVEL		REHEAT COIL								TOTAL APD @ MAX (Pa)	MIN. OPERATING PRESSURE (Pa)	MANUFACTURER	MODEL	NOTES: C/W 3FT INTEGRAL ATTENUATOR (HOSPITAL GRADE LINER)
		MAX.	RAD	DISCH.	CAPACITY (KW)	E.A.T (°C)	L.A.T (°C)	E.W.T (°C)	L.W.T (°C)	FLOW (L/S)	PD (kPa)	ROWS					
CAV-1	125	163	25	29	3.36	12.7	29.6	40.5	35.0	0.15	2.9	2	60	62	E.H. PRICE	SDV	
CAV-2	175	299	-	22	5.41	12.7	27.6	40.5	35.0	0.24	8.81	2	95	119	E.H. PRICE	SDV	
CAV-3	125	123	21	29	2.42	12.7	28.8	40.5	35.0	0.11	1.61	2	27	30	E.H. PRICE	SDV	
CAV-4	150	184	20	25	3.38	12.7	27.8	40.5	35.0	0.15	2.96	2	55	89	E.H. PRICE	SDV	
CAV-5	125	160	25	29	3.01	12.7	28.2	40.5	35.0	0.13	2.39	2	45	47	E.H. PRICE	SDV	
CAV-6	125	160	25	29	3.01	12.7	28.2	40.5	35.0	0.13	2.39	2	45	47	E.H. PRICE	SDV	



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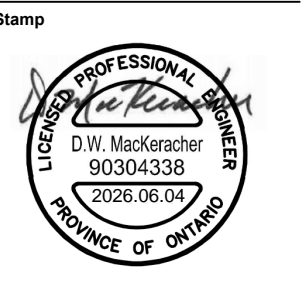
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NO	ACTION	DATE

Client:  
**SCARBOROUGH HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

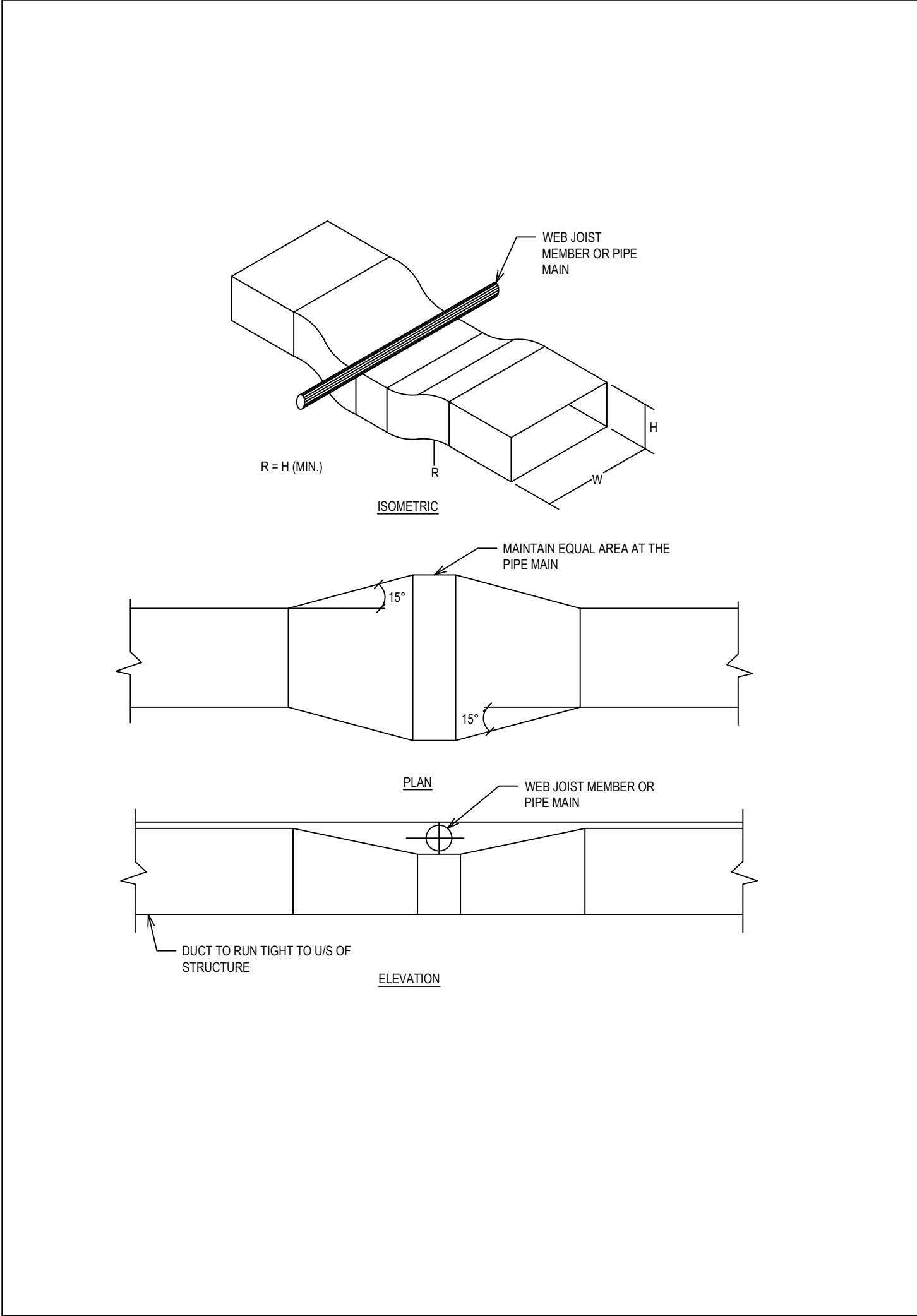
Project Title:  
**SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A**

Sheet Title:  
**EQUIPMENT SCHEDULES**

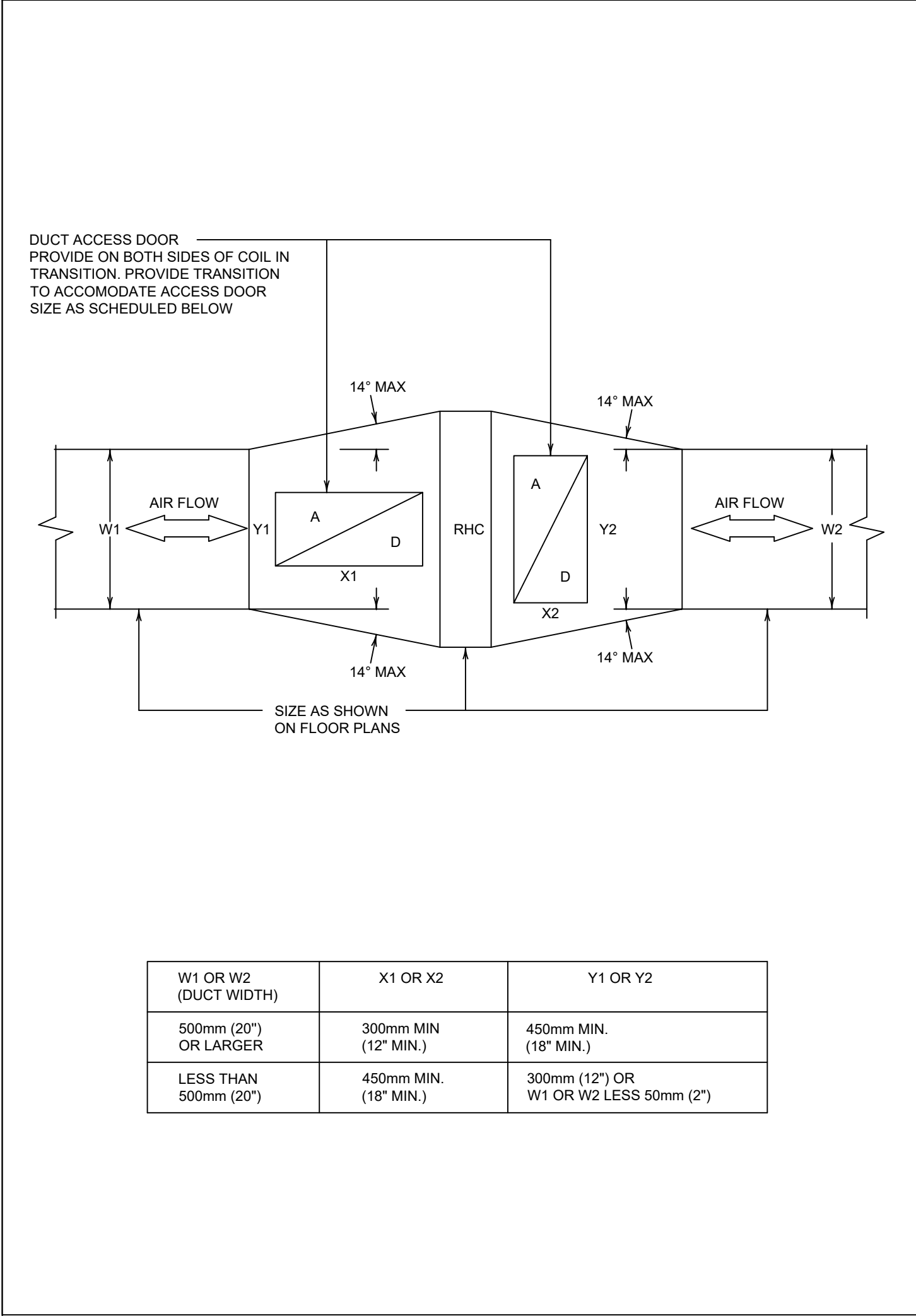
Project North		
Date: <b>APR 2025</b>	Project No.: <b>24002-02</b>	
Scale: <b>N.T.S.</b>	Drawn: <b>SC</b>	Checked: <b>MC</b>
Drawing Number:		

ME-500

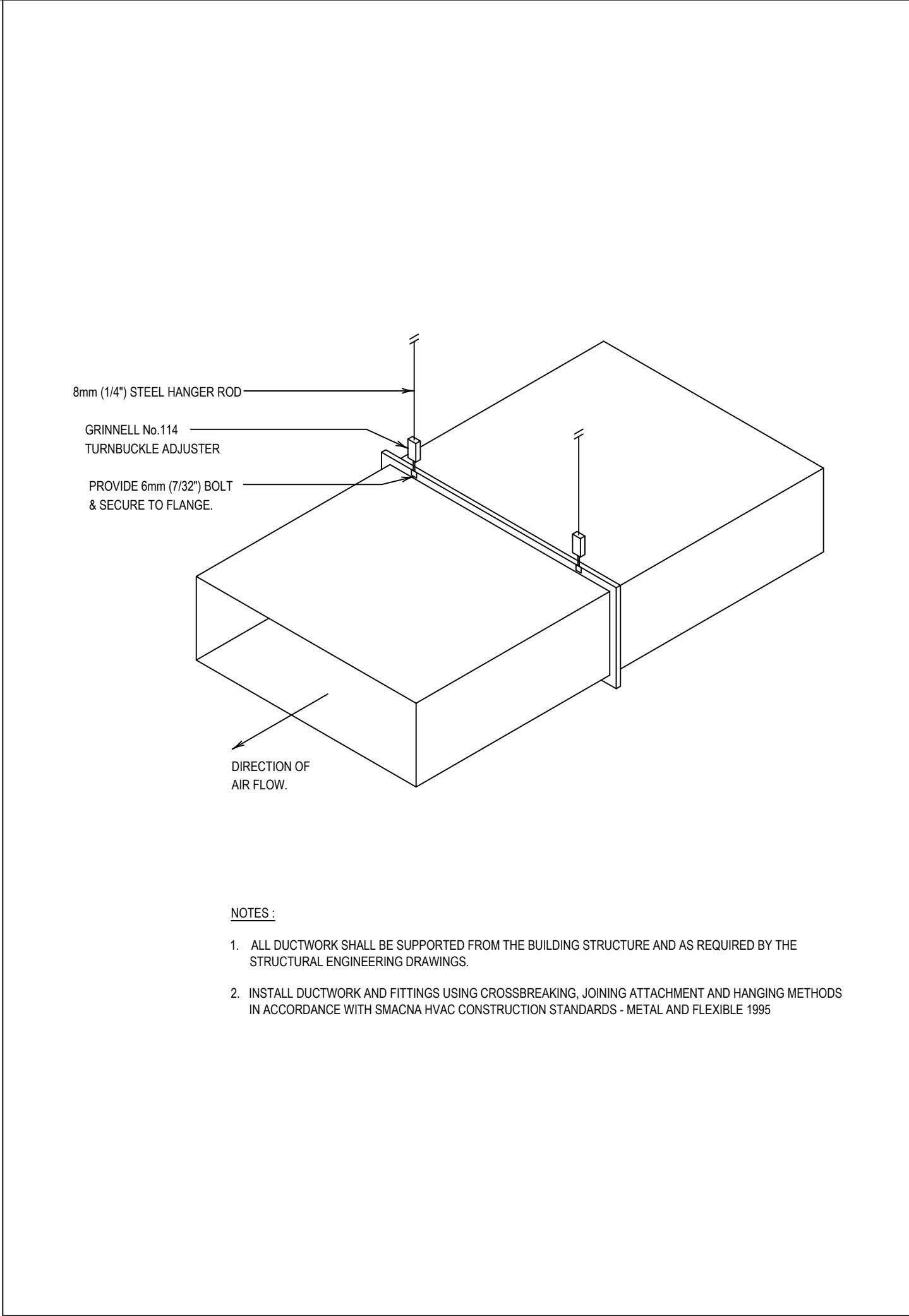




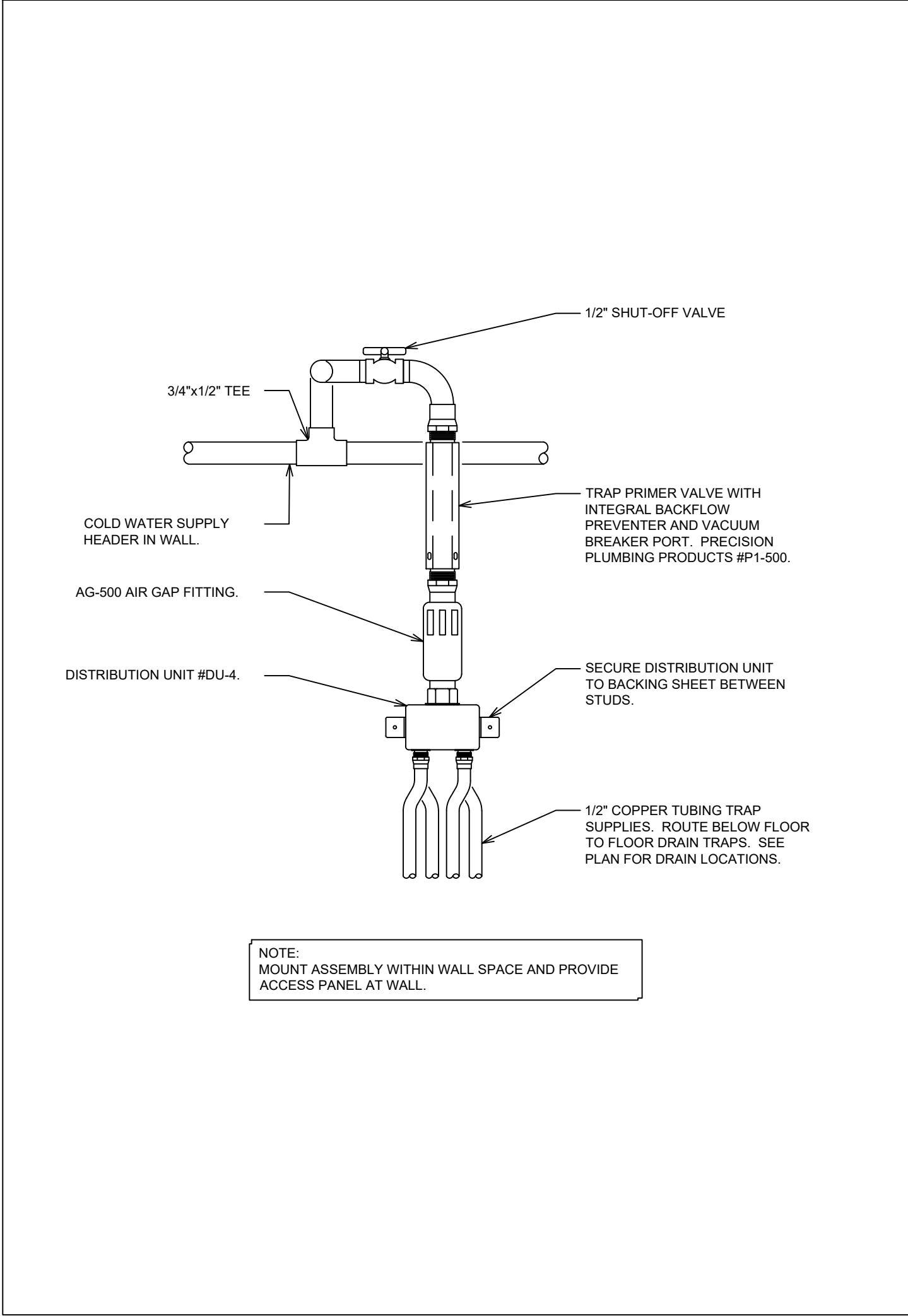
01 DUCT TRANSITION AT OBSTRUCTION  
ME-501 N.T.S.



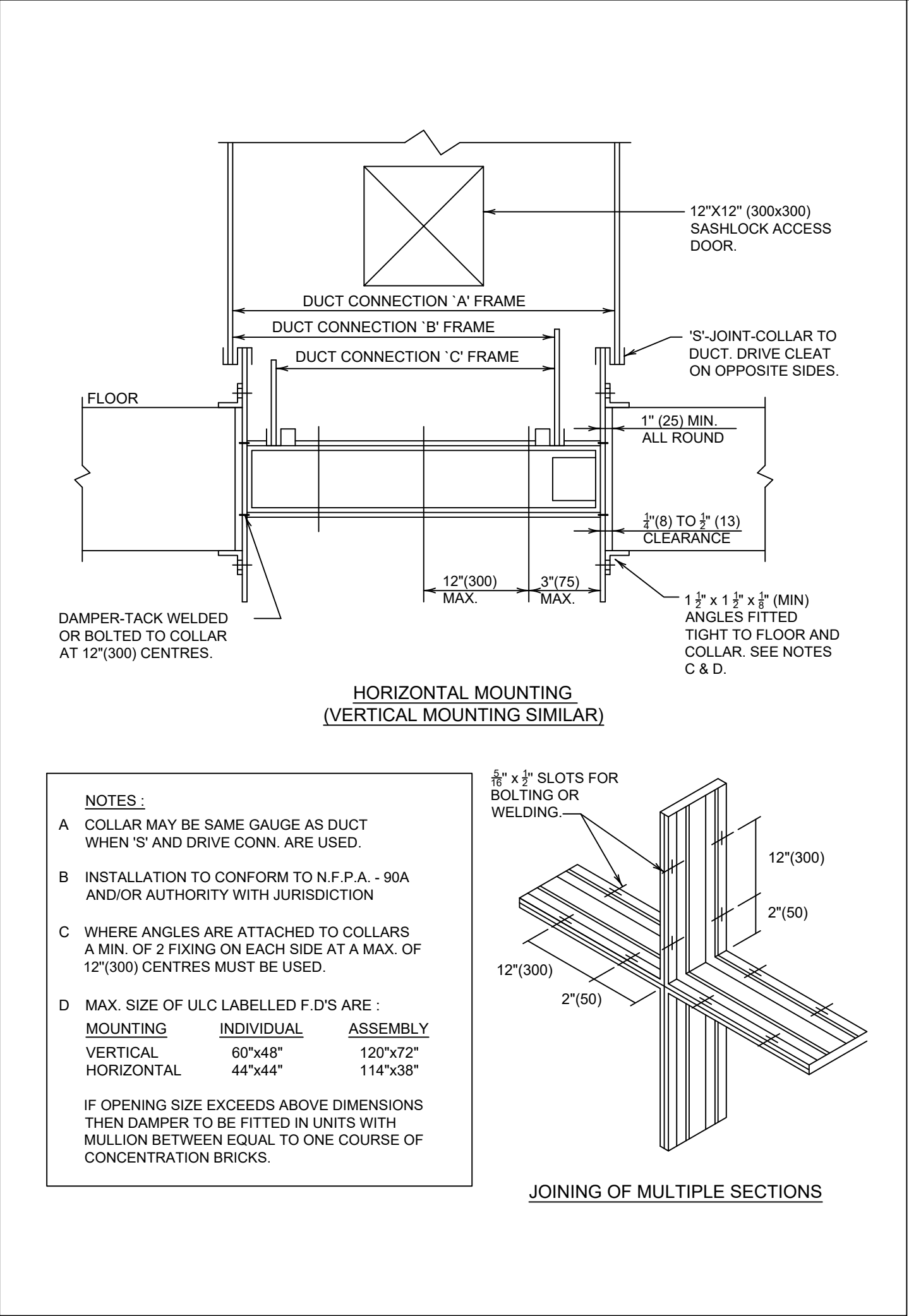
05 REHEAT COIL MOUNTING DETAIL  
ME-501 N.T.S.



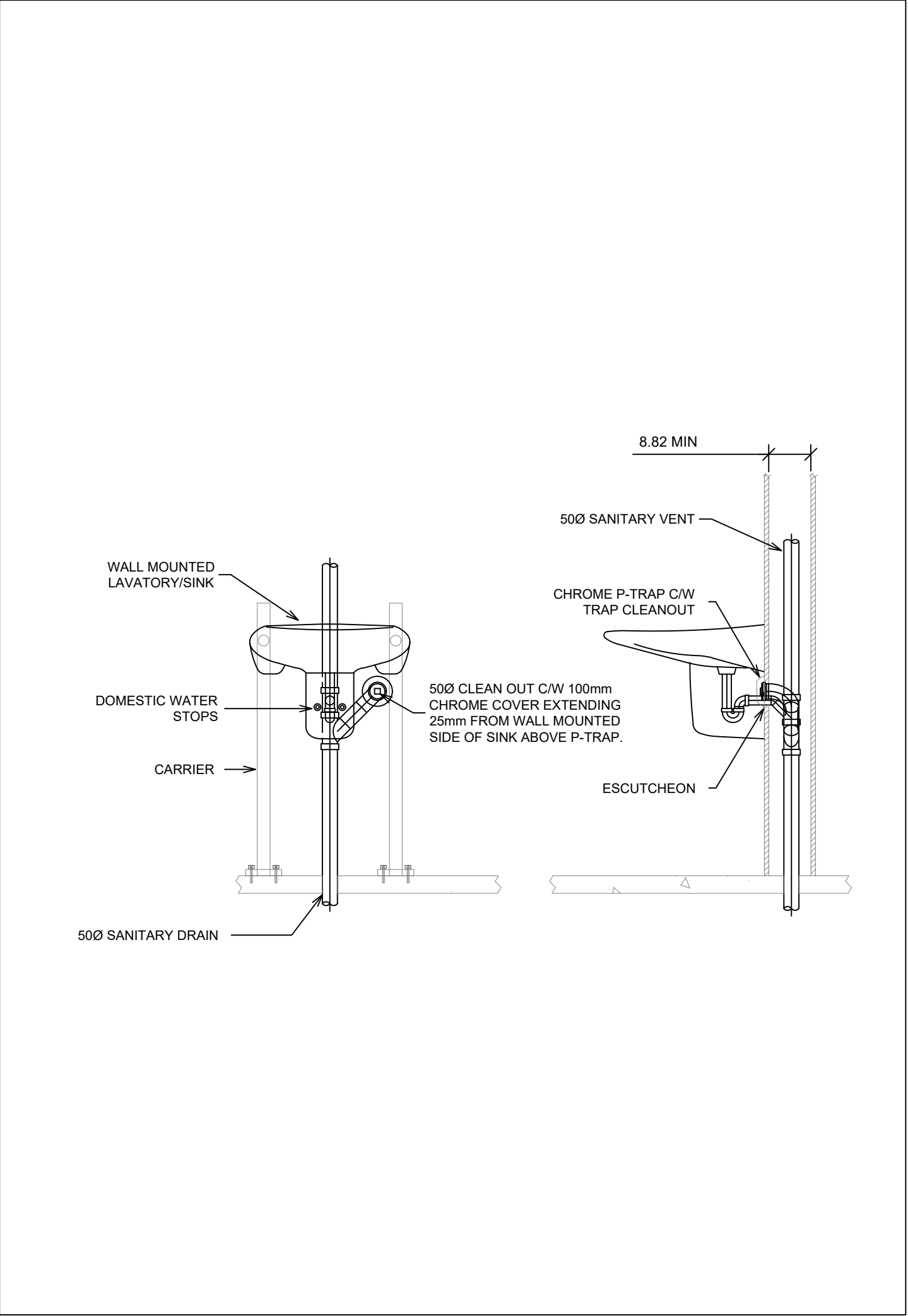
02 TYPICAL DUCT SUSPENSION  
ME-501 N.T.S.



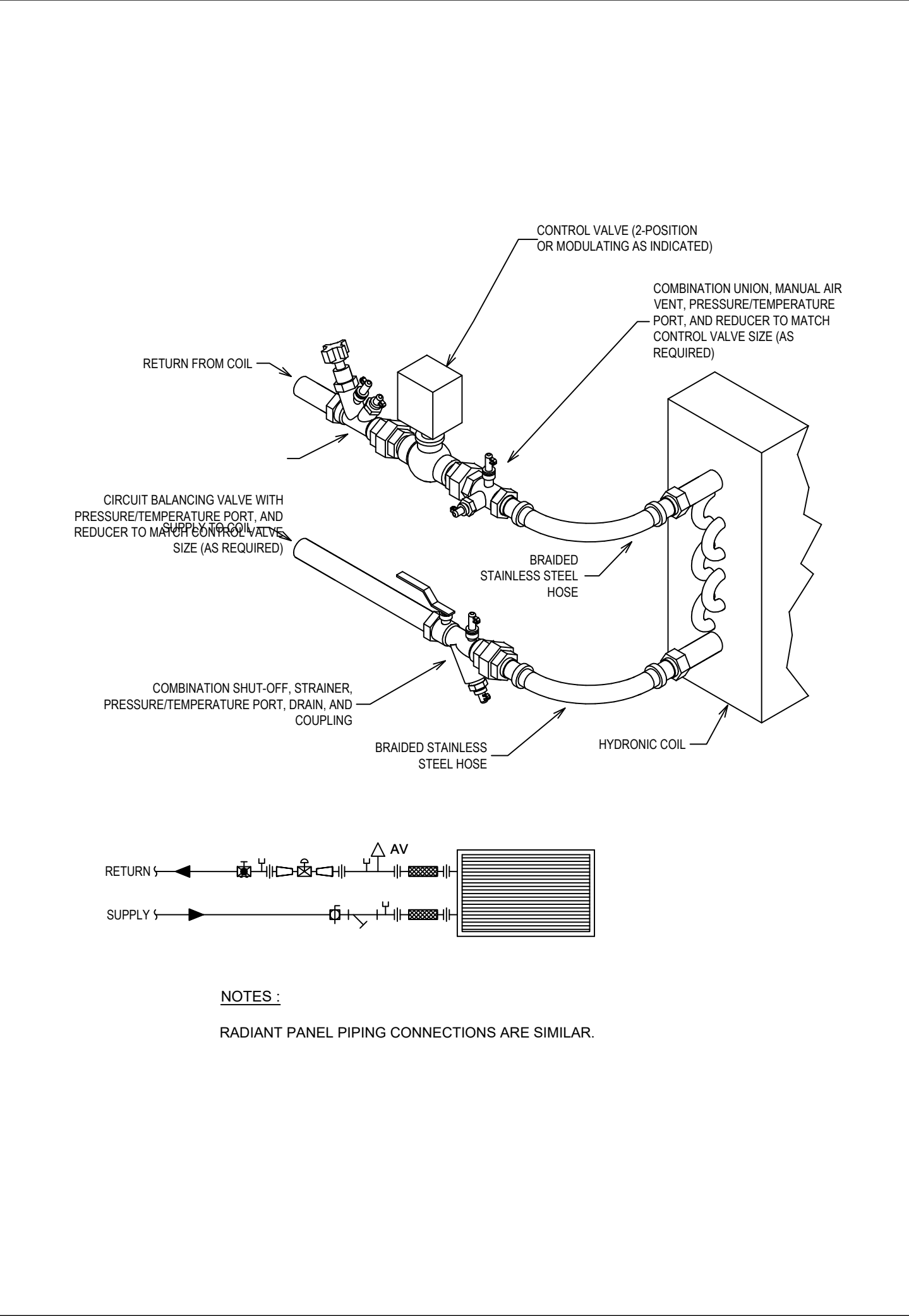
06 TRAP PRIMER DETAIL  
ME-501 N.T.S.



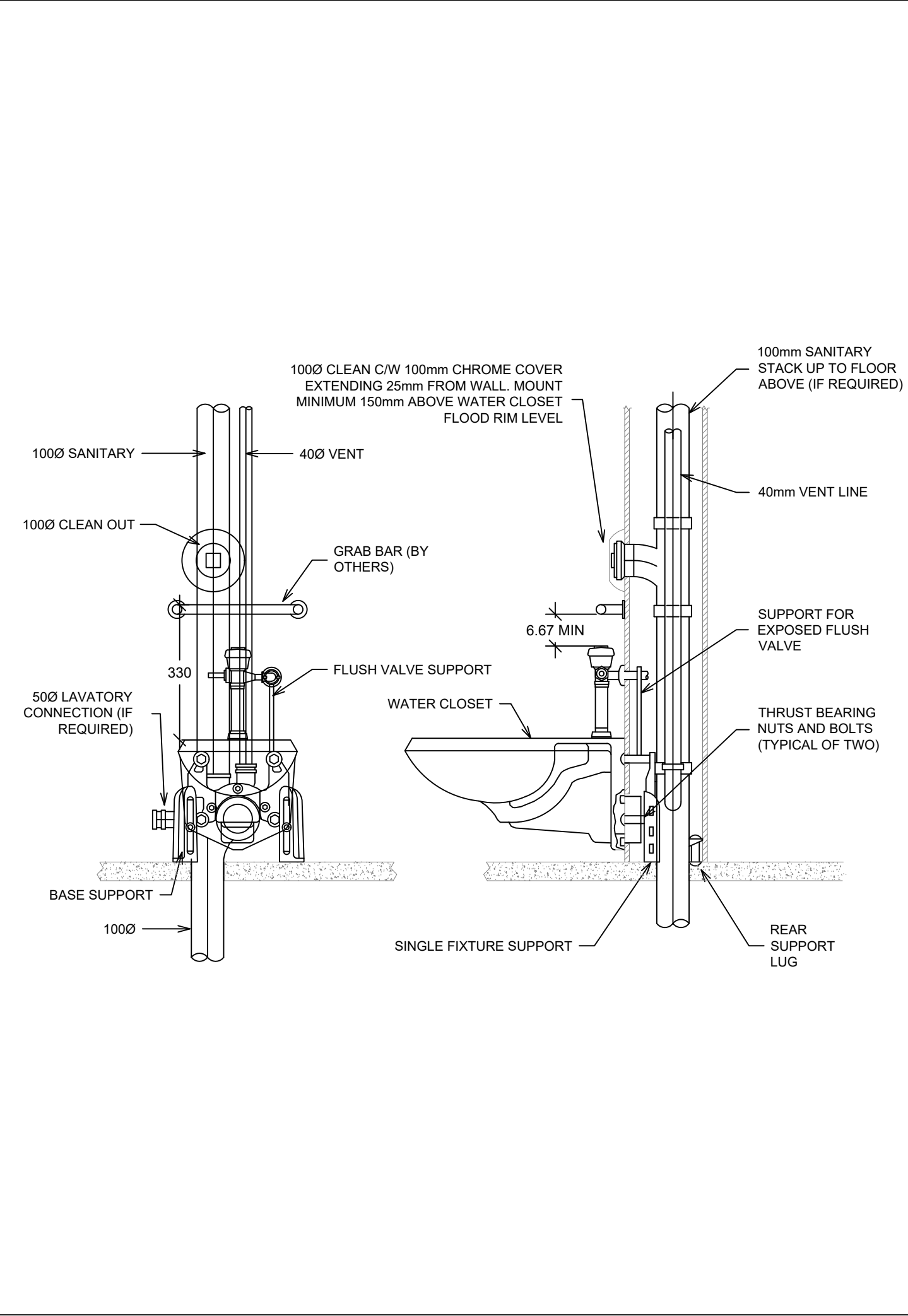
03 FIRE DAMPER INSTALLATION  
ME-501 N.T.S.



07 WALL MOUNTED LAVATORY INSTALLATION DETAIL  
ME-501 N.T.S.



04 COIL PIPING CONNECTION DETAIL  
ME-501 N.T.S.



8 WALL MOUNTED WATER CLOSET INSTALLATION DETAIL  
ME-501 N.T.S.

SHEET ISSUANCE

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4	ISSUED FOR TENDER AND PERMIT	04.06.26
3	ISSUED FOR CLIENT REVIEW	29.05.26
2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

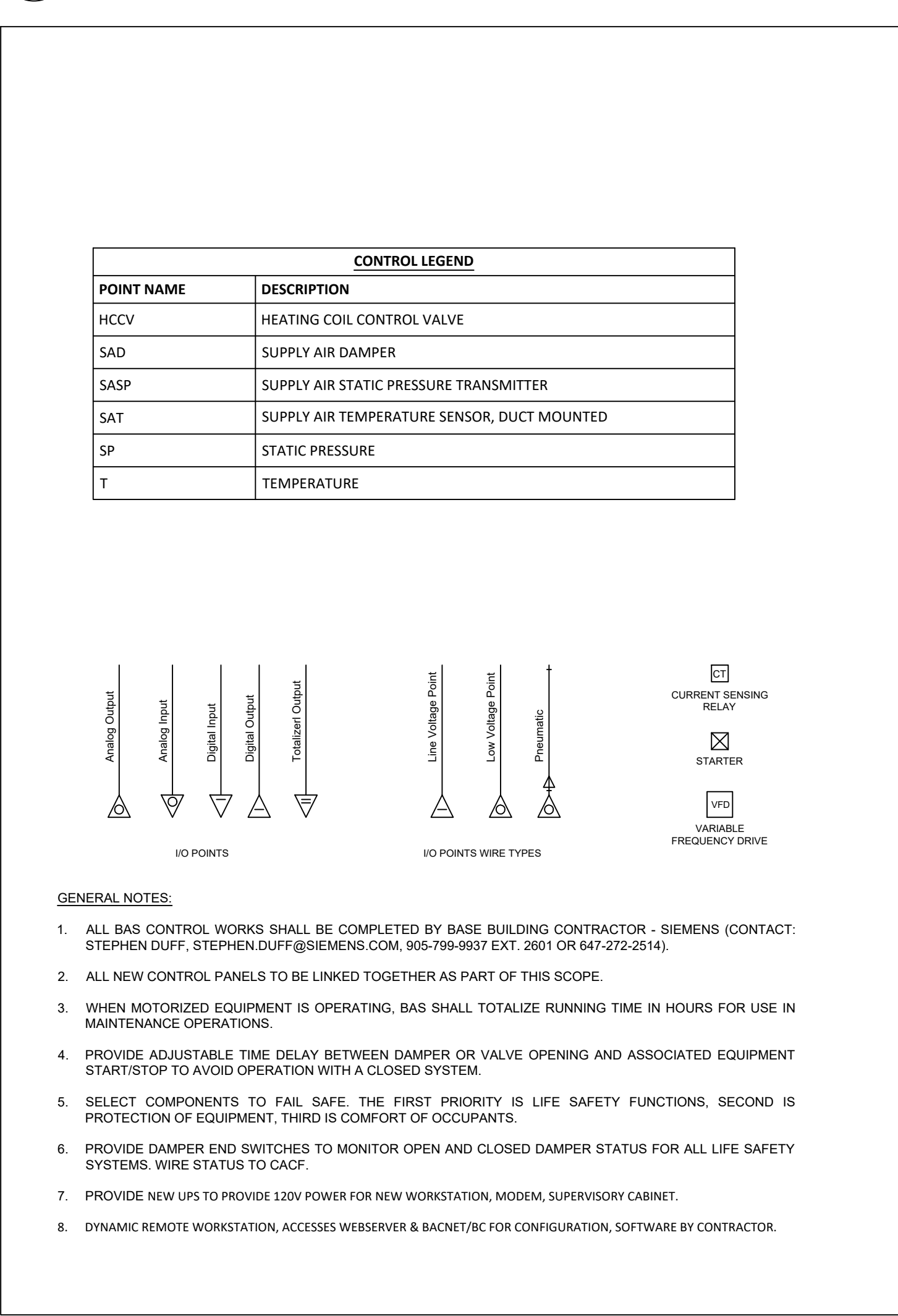
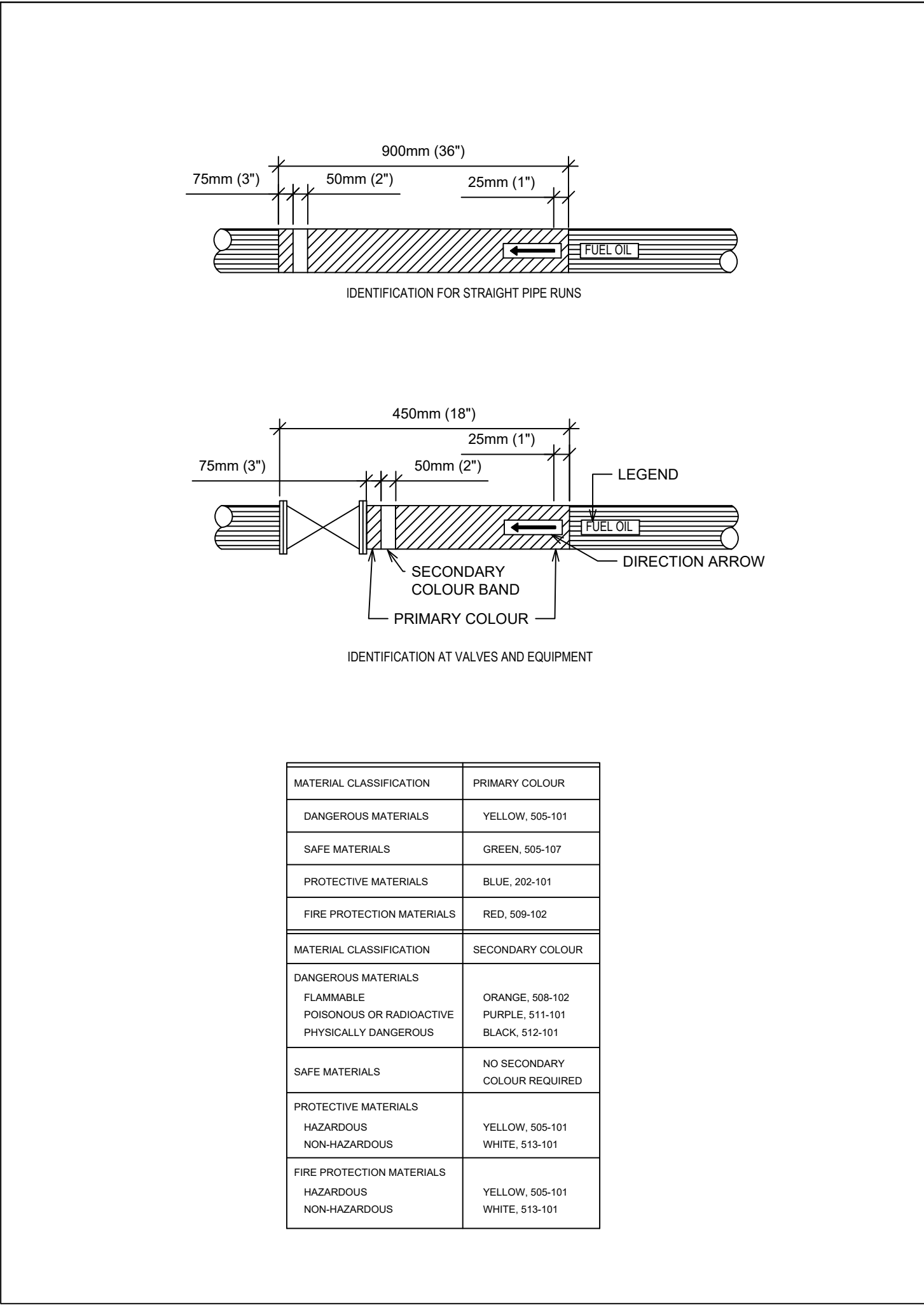
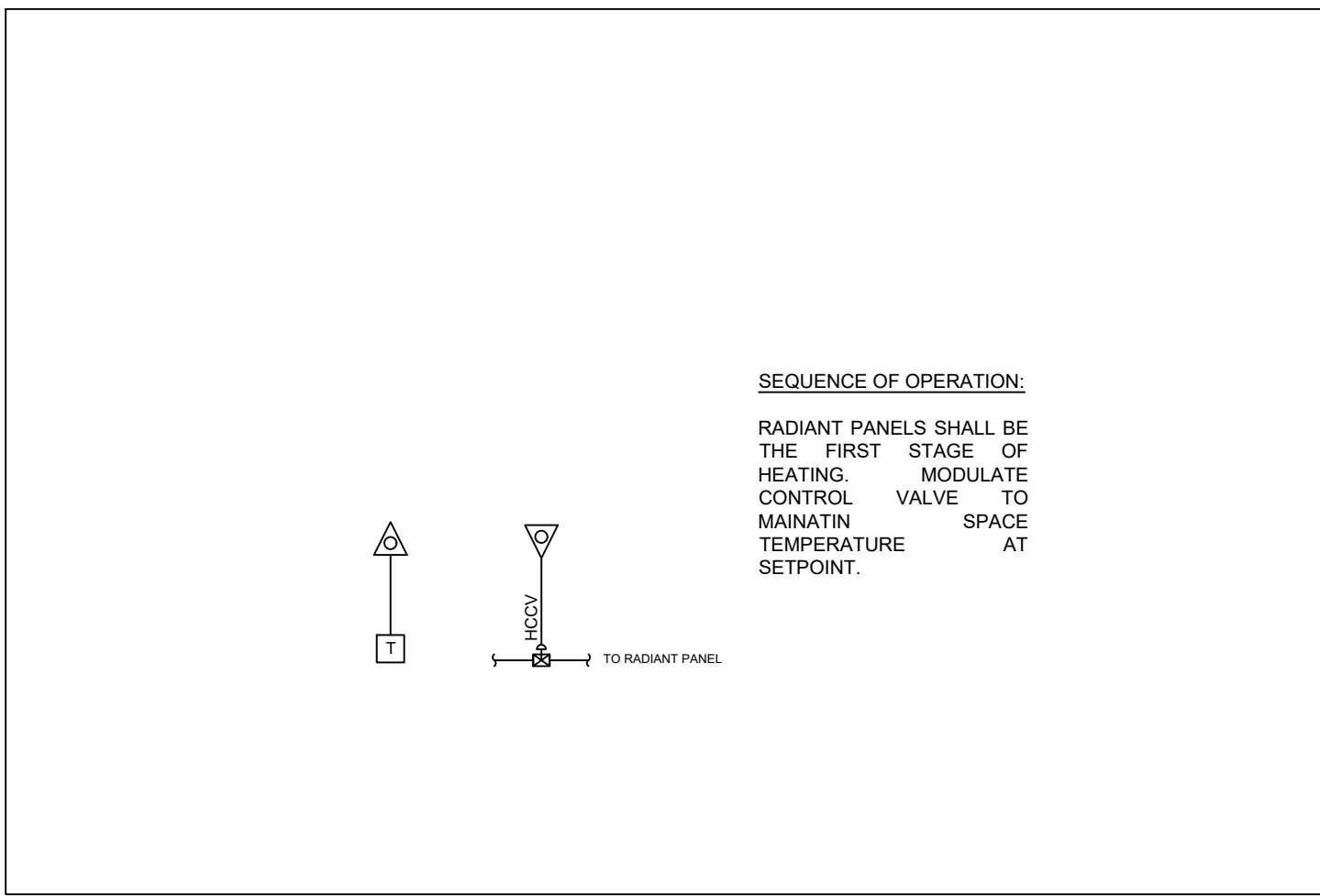
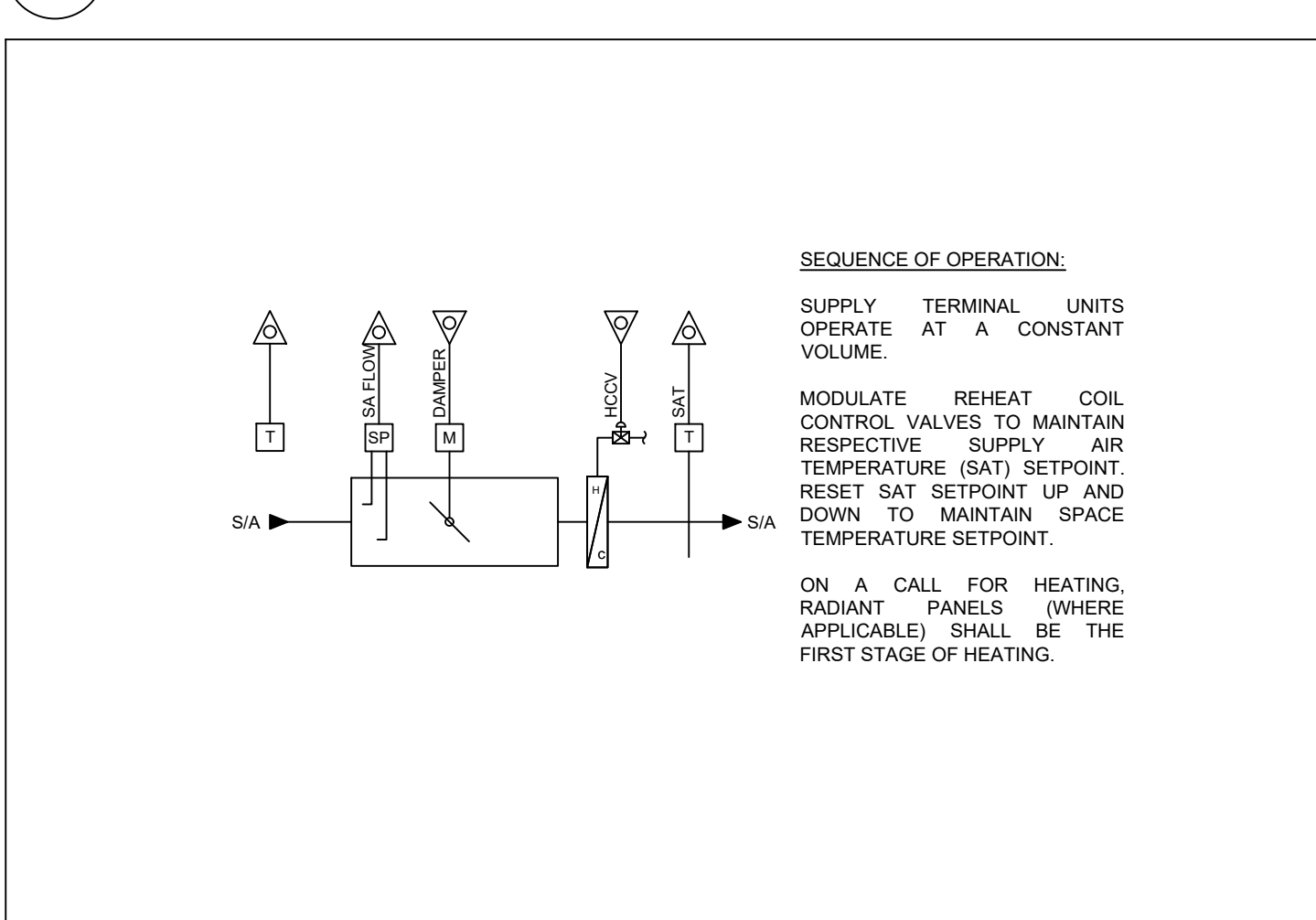
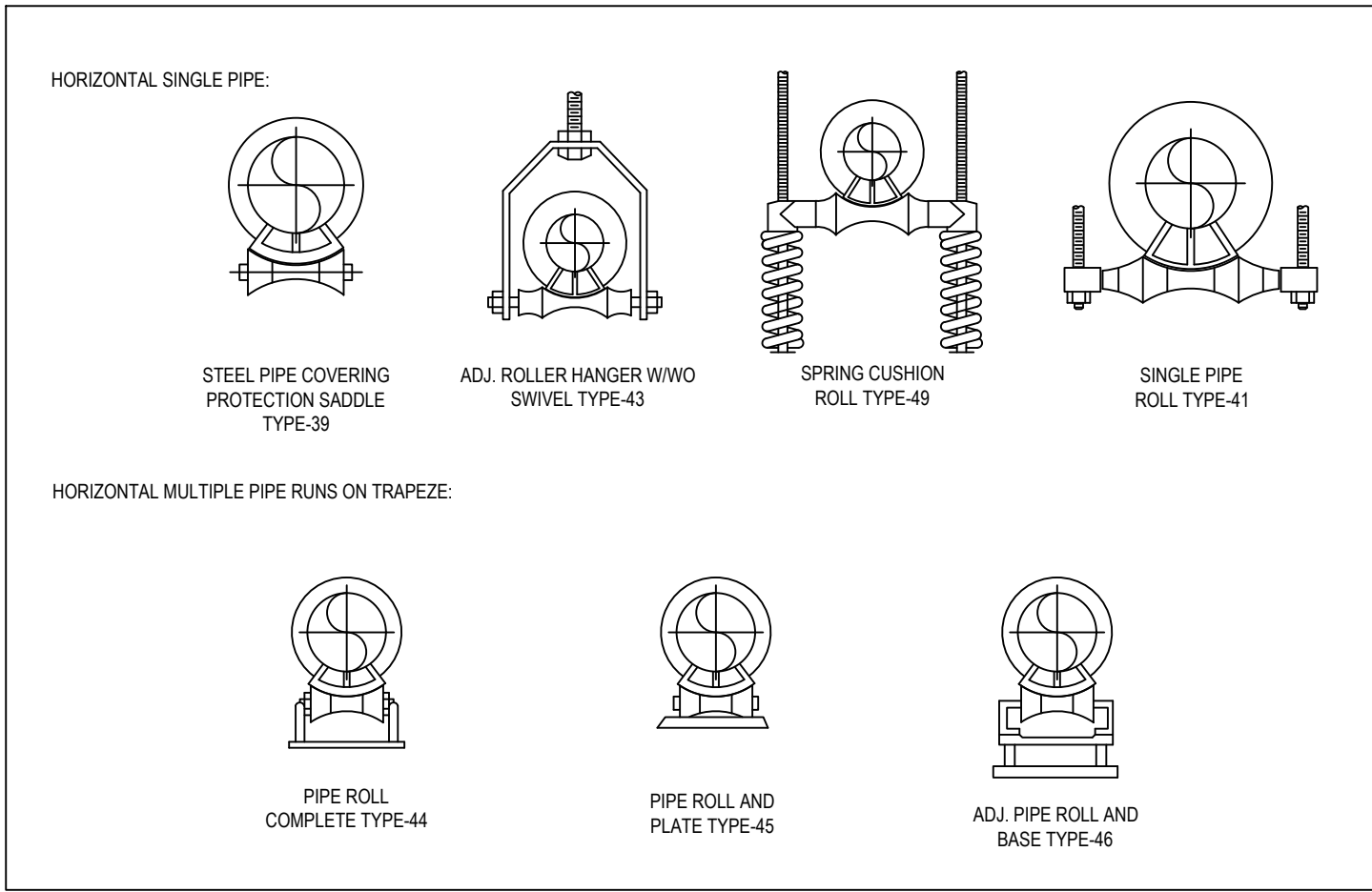
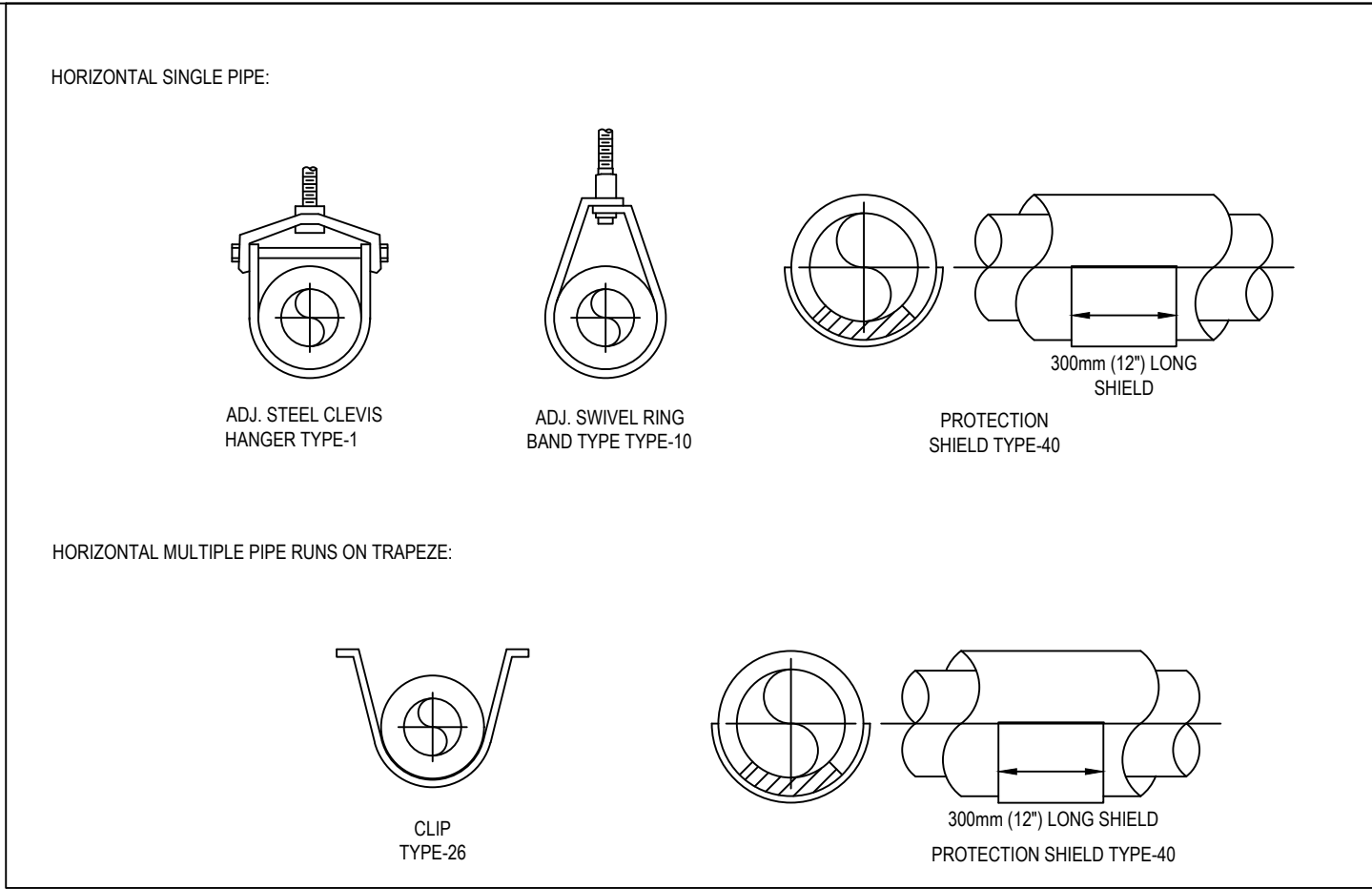
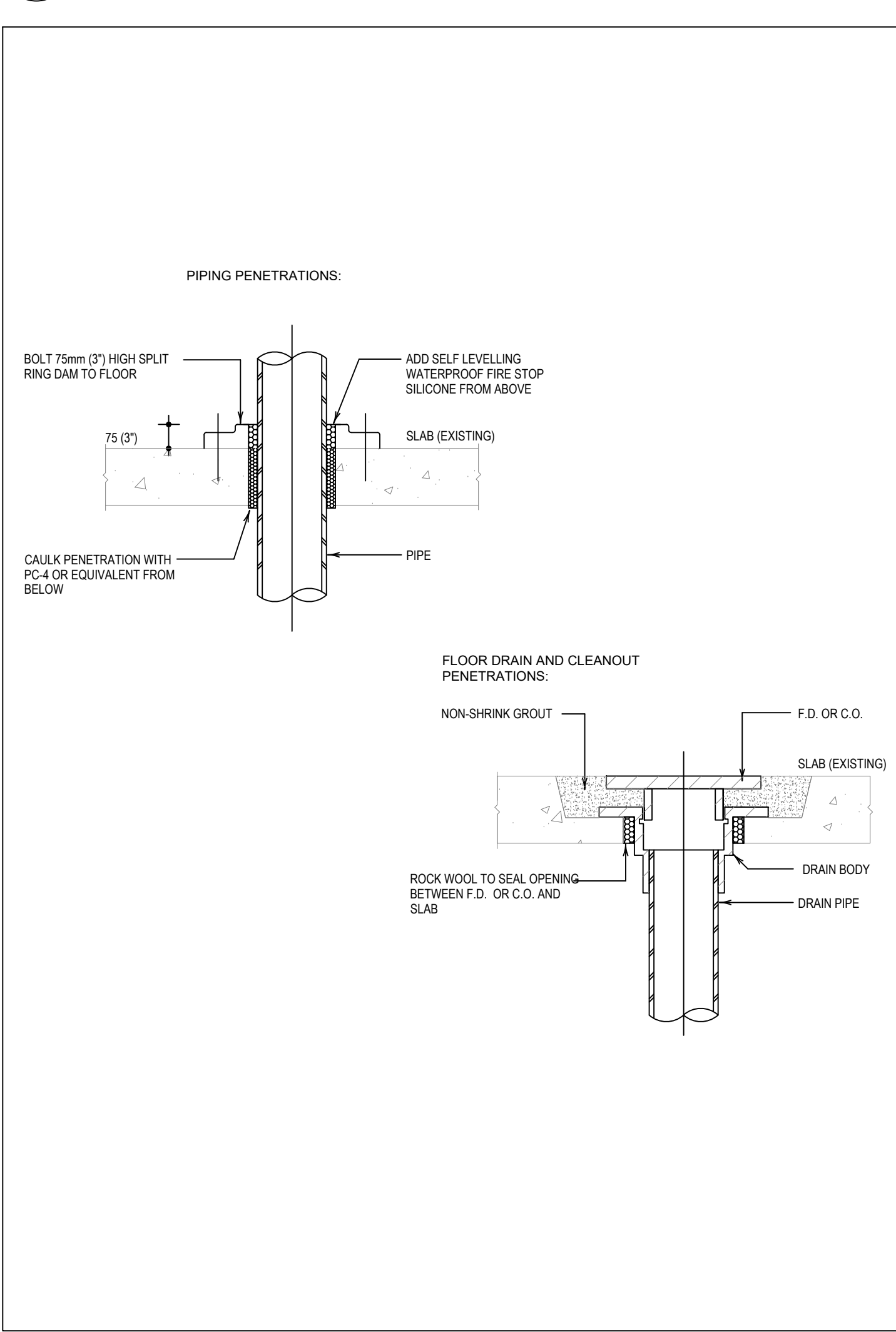
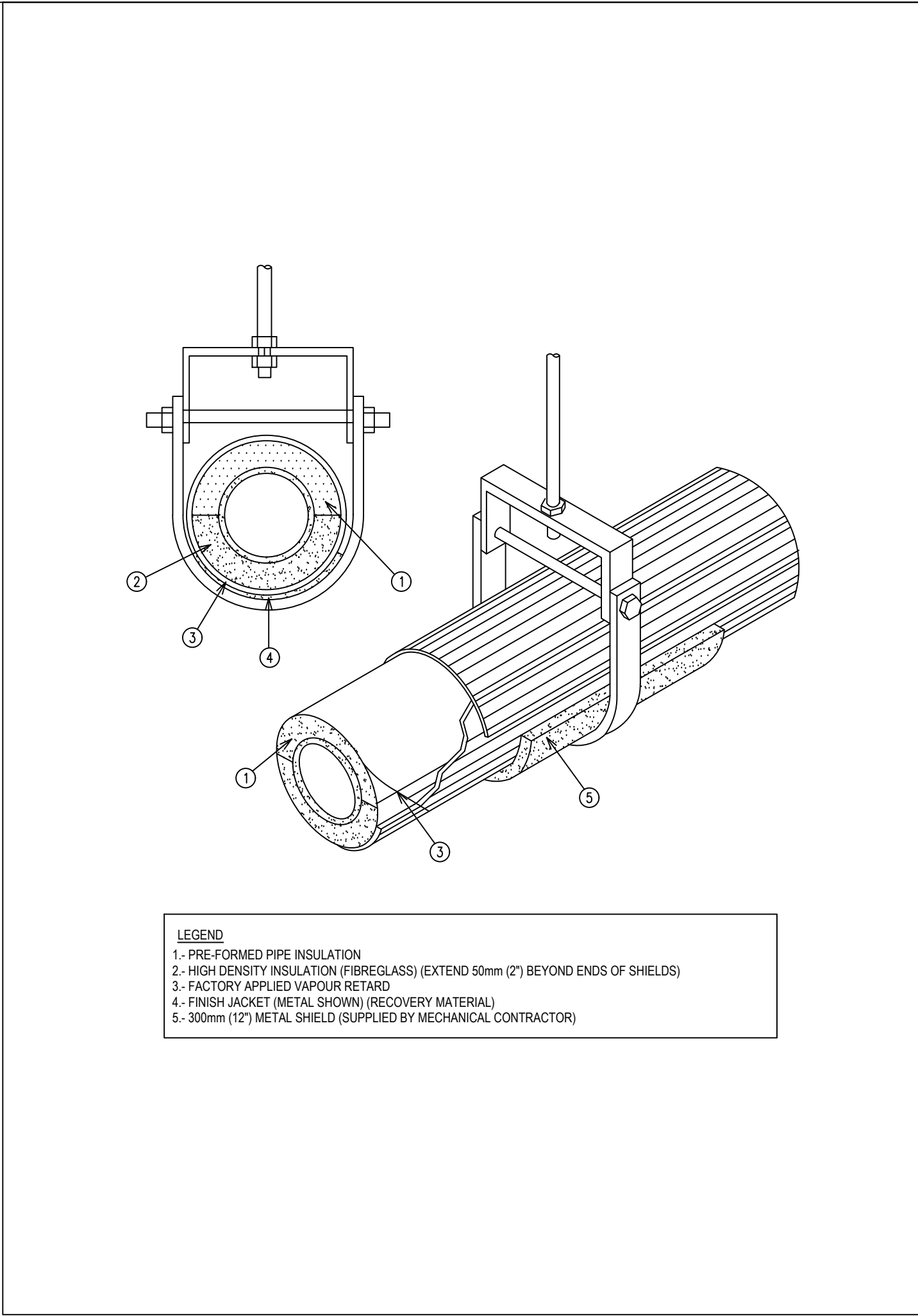
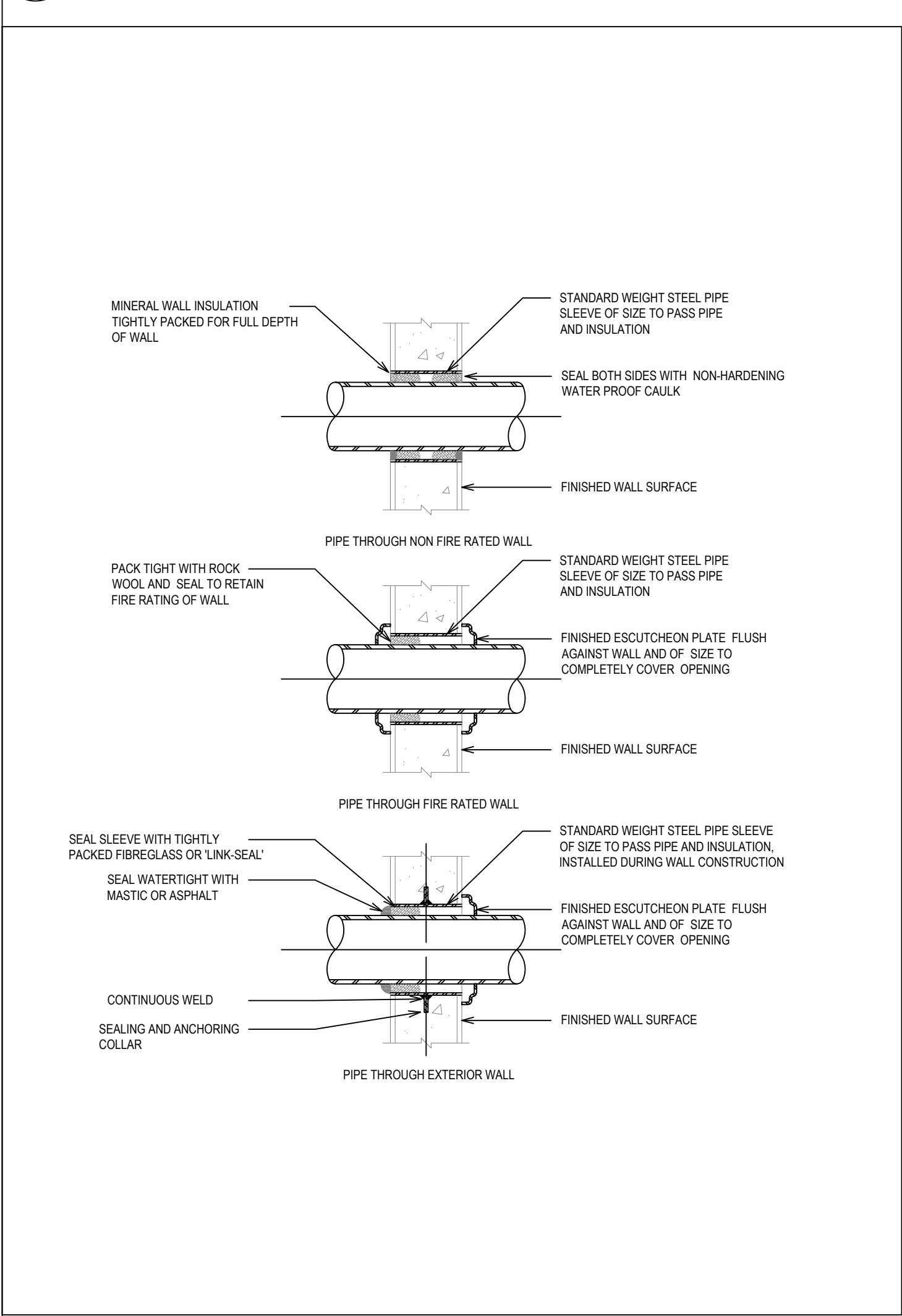
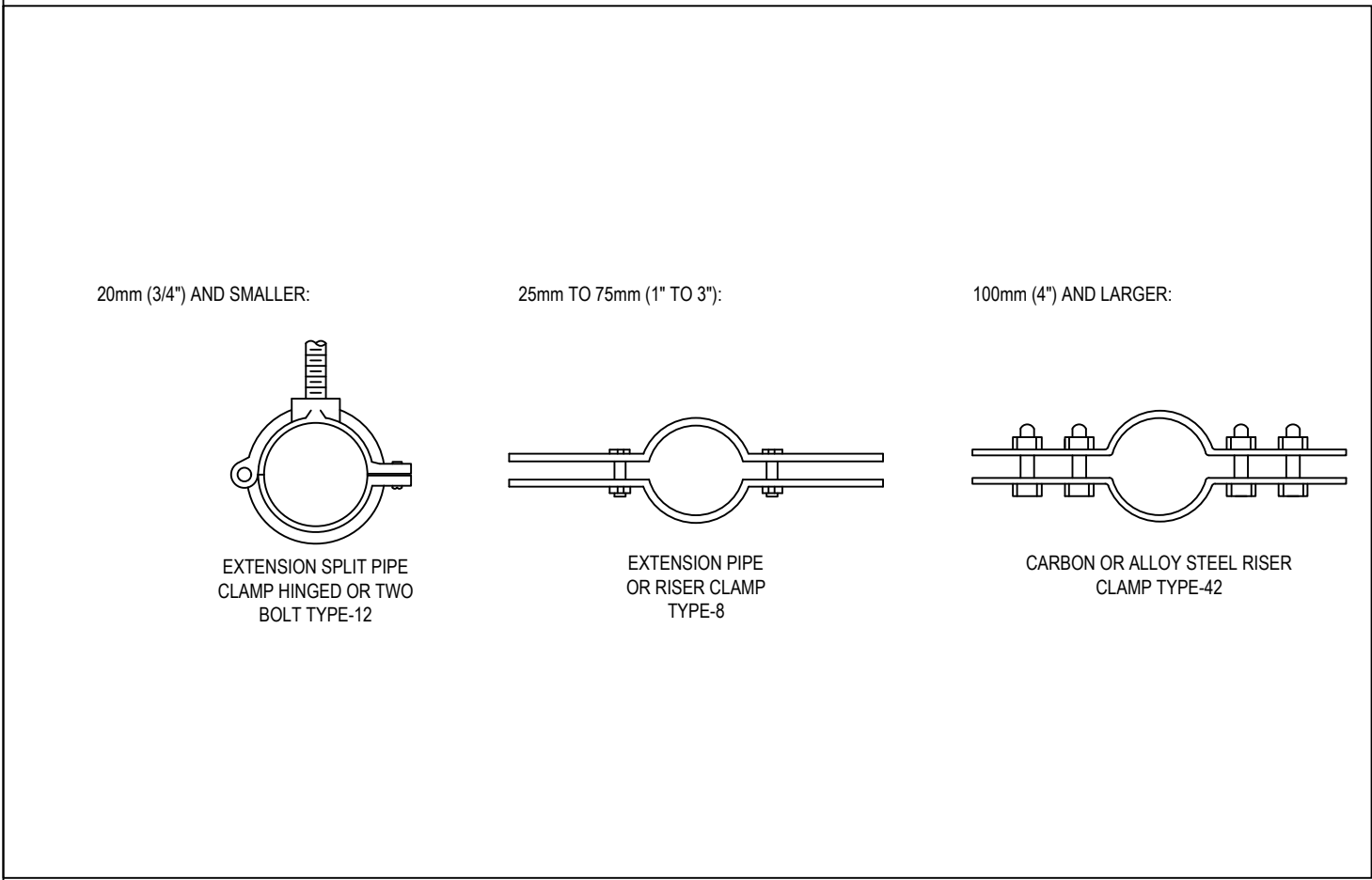
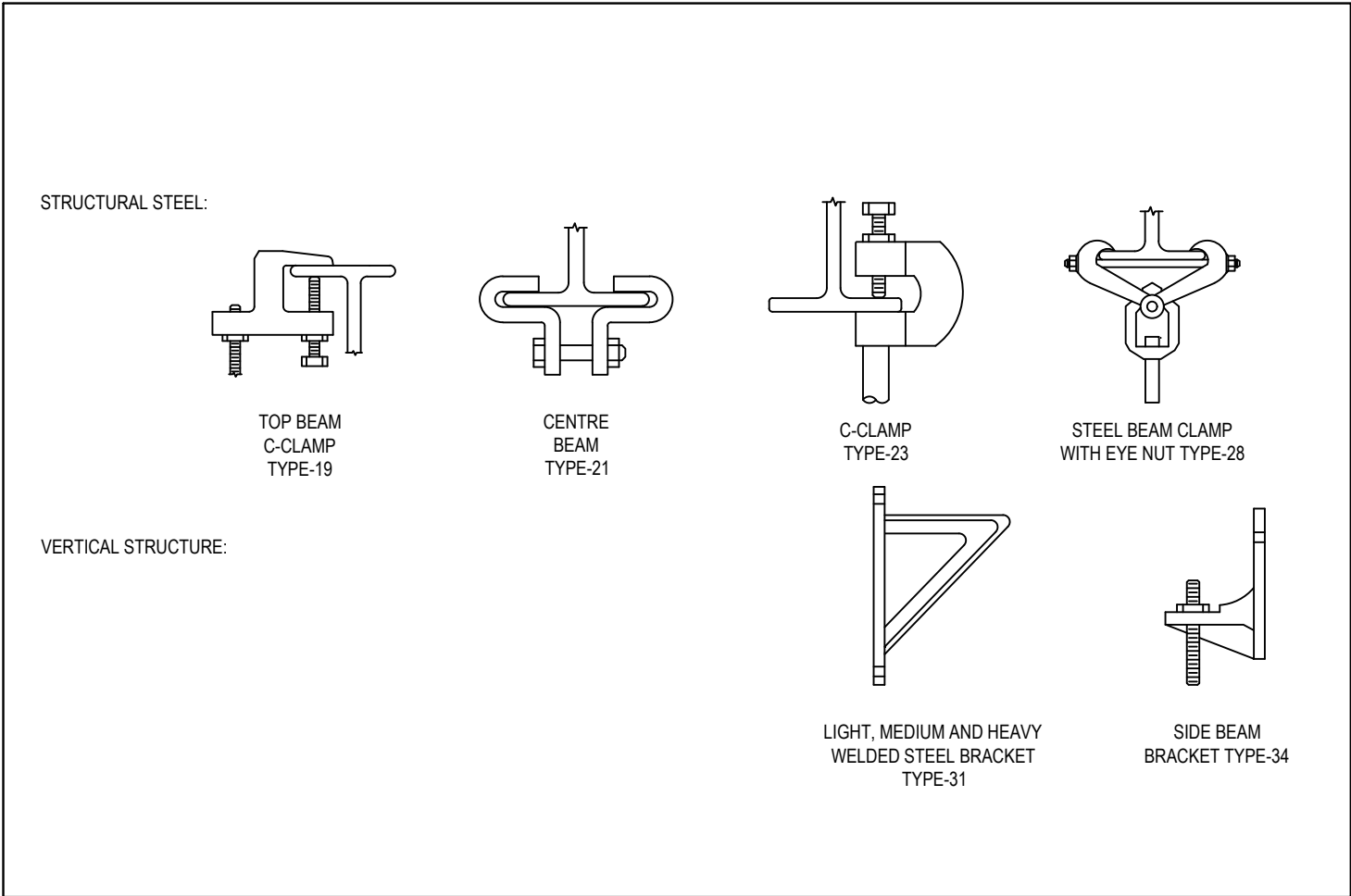
Client:  
**SCARBOROUGH  
HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

Project Title:  
**SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A**

Sheet Title:  
**MECHANICAL DETAILS 1**

Project North	Stamp 	
Date: <b>APR 2025</b>	Project No.: <b>24002-02</b>	
Scale: <b>N.T.S.</b>	Drawn: <b>SC</b>	Checked: <b>MC</b>
Drawing Number:		





SHEET ISSUANCE		
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1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:  
**SCARBOROUGH  
HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

Project Title:

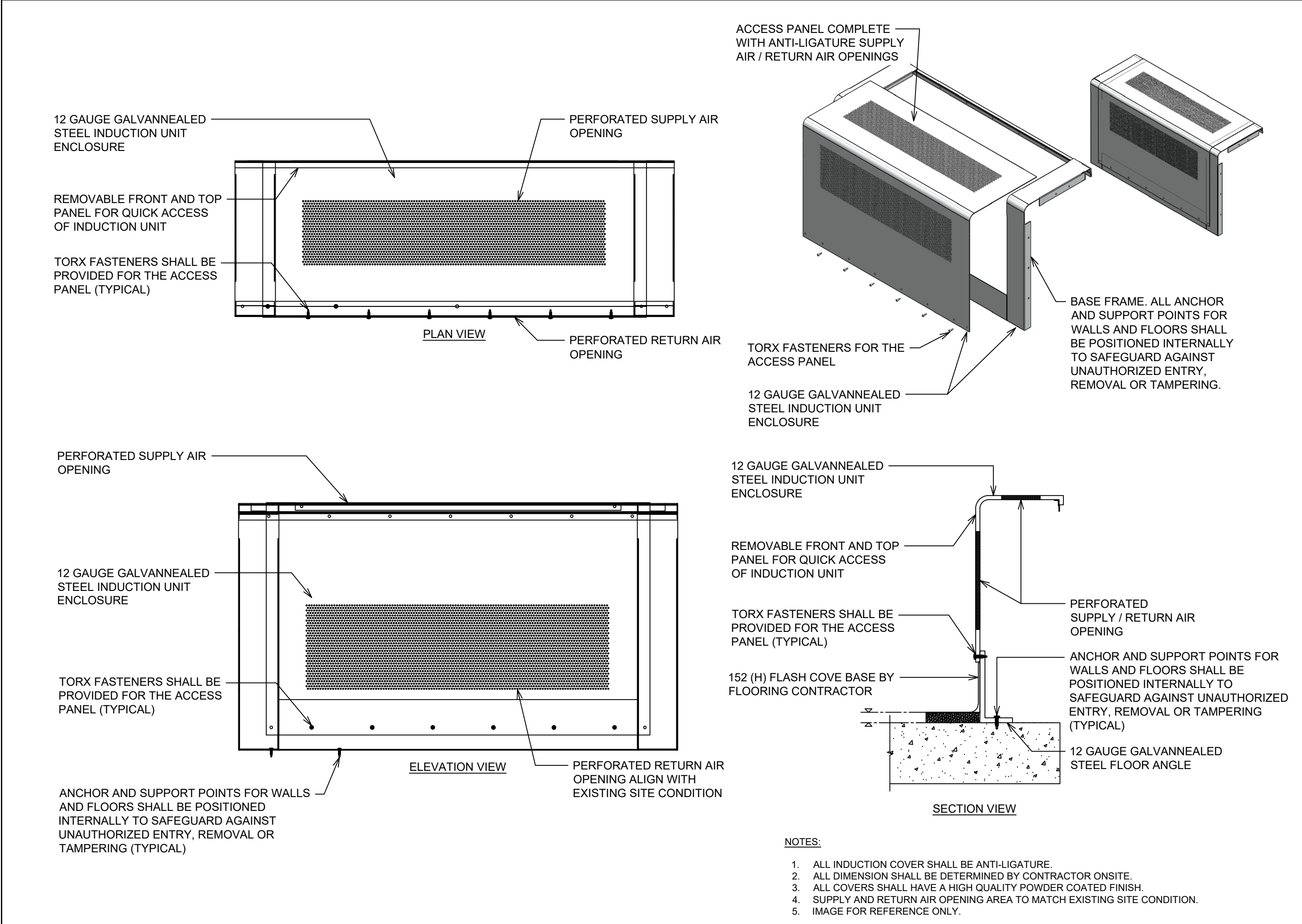
**SHN MENTAL HEALTH  
INPATIENT CONSOLIDATION  
POD 3A**

Sheet Title:  
**MECHANICAL DETAILS 2**

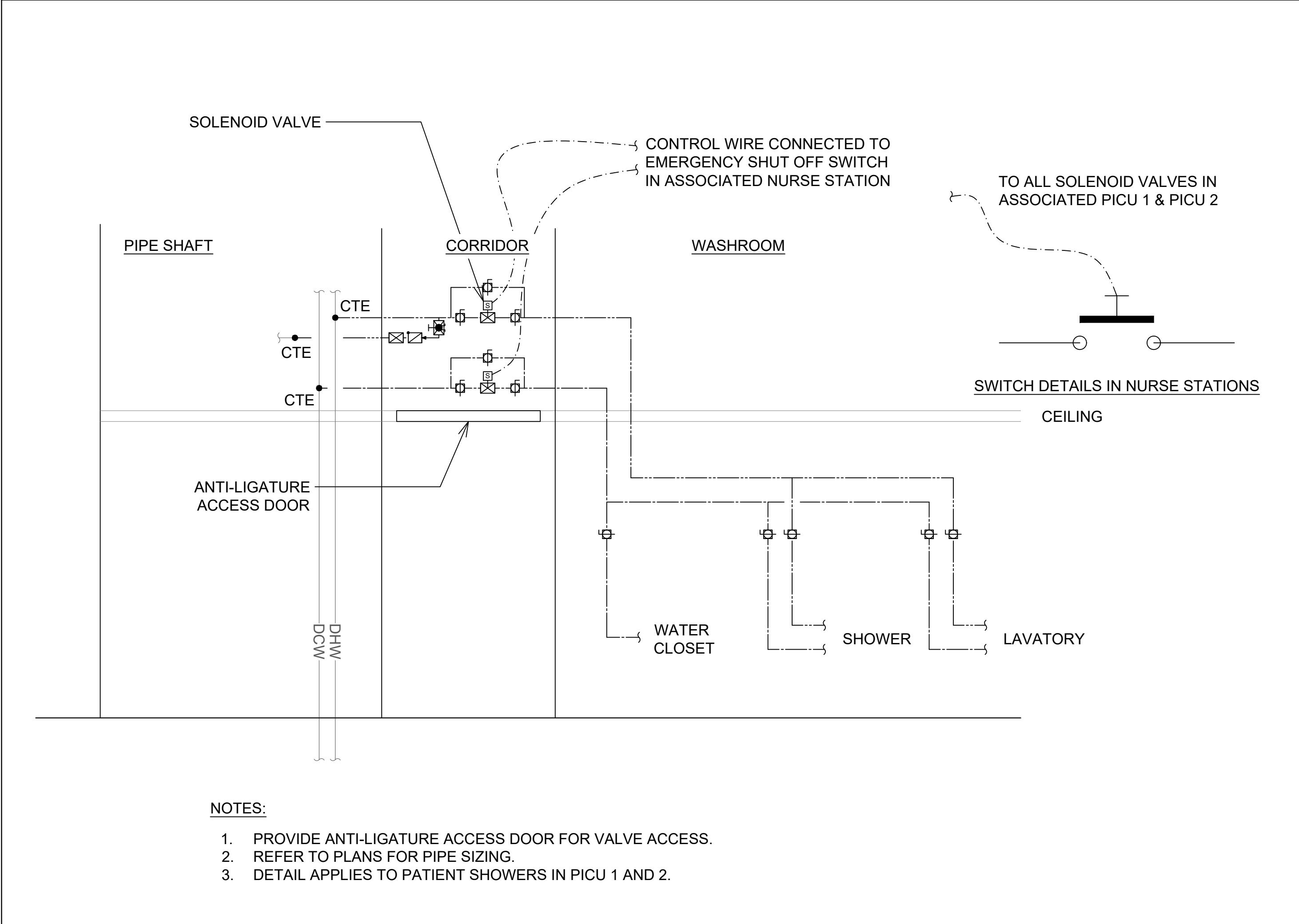
Project North	Stamp 	
Date: <b>APR 2025</b>	Project No.: <b>24002-02</b>	
Scale: <b>N.T.S.</b>	Drawn: <b>SC</b>	Checked: <b>MC</b>
Drawing Number:		

**ME-502**

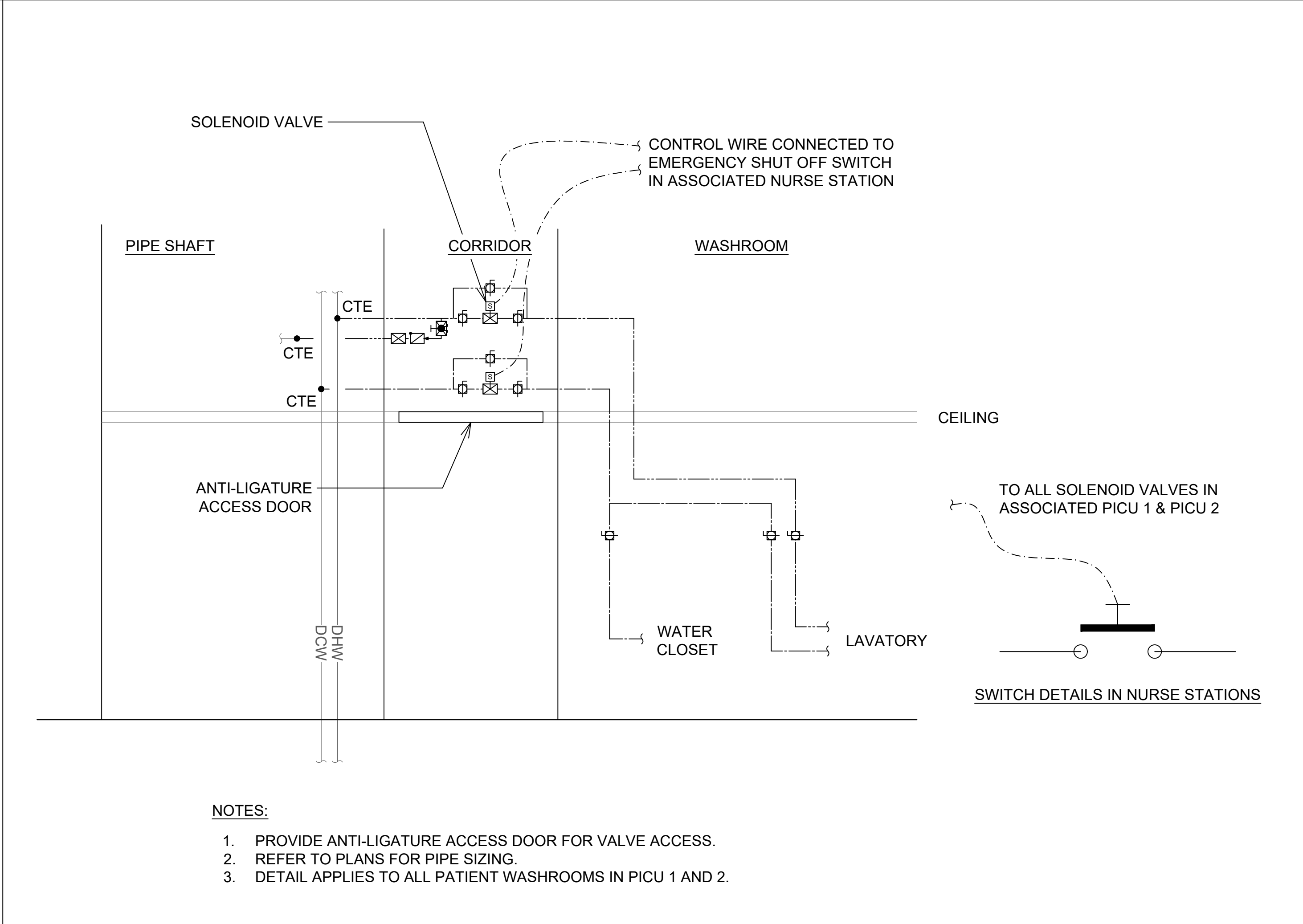




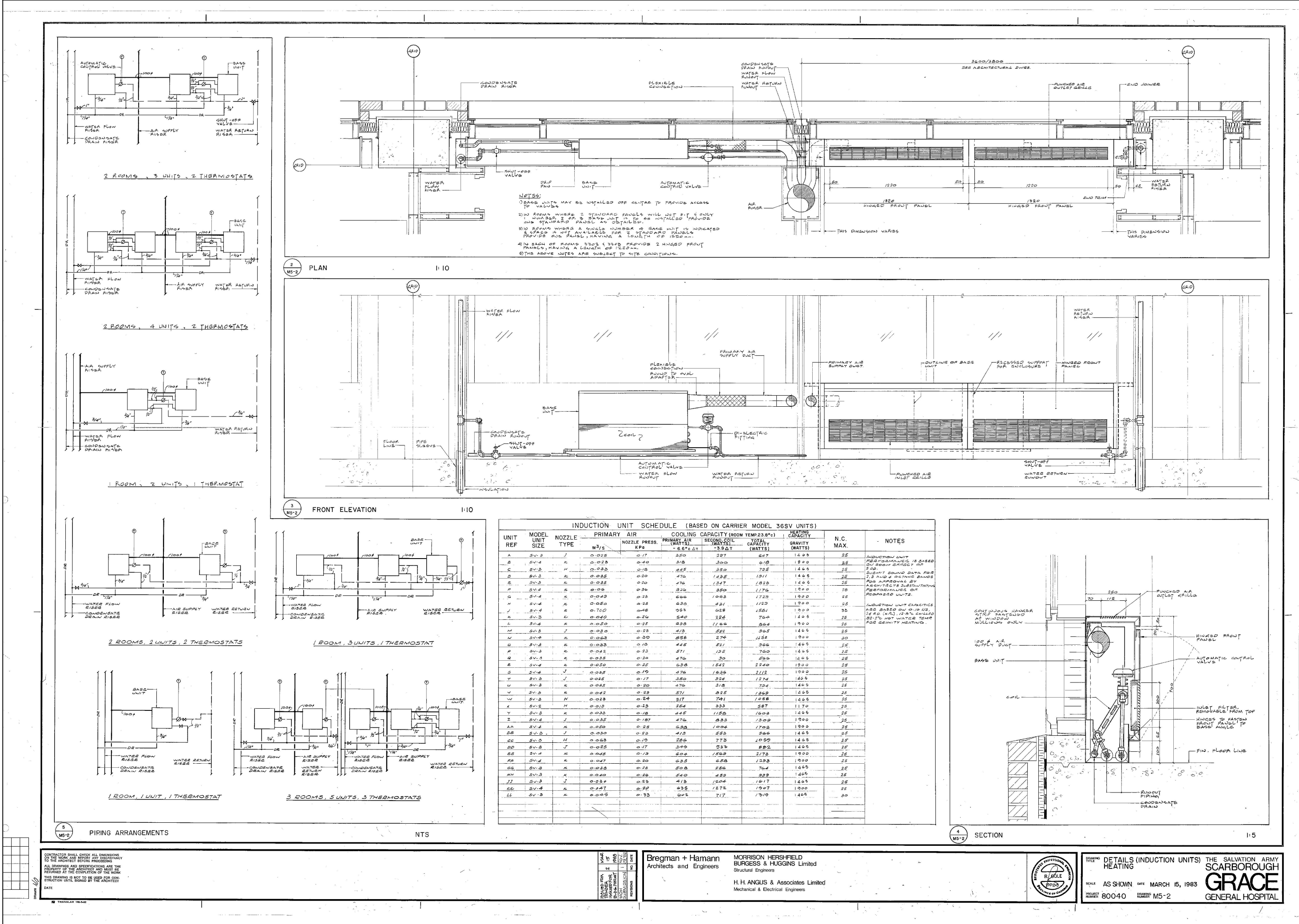
01 FLAT TOP ANTI-LIGATURE INDUCTION UNIT COVERS DETAIL  
ME-503 N.T.S.



02 PATIENT WASHROOM DETAIL WITH SOLENOID VALVE  
ME-503 N.T.S.



03 PATIENT SHOWER DETAIL WITH SOLENOID VALVE  
ME-503 N.T.S.



04 DETAILS OF EXISTING INDUCTION UNITS (FOR REFERENCE)  
ME-503 N.T.S.

SHEET ISSUANCE		
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2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:  
**SCARBOROUGH HEALTH NETWORK**  
3030 BIRCHMOUNT ROAD  
SCARBOROUGH, ON

Project Title:  
**SHN MENTAL HEALTH INPATIENT CONSOLIDATION POD 3A**

Sheet Title:  
**MECHANICAL DETAILS 3**

Project	North	Stamp
Date: <b>APR 2025</b>	Project No.: <b>24002-02</b>	
Scale: <b>N.T.S.</b>	Drawn: <b>SC</b>	Checked: <b>MC</b>
Drawing Number:		