

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
GENERAL	
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	EXISTING TO BE REMOVED FOR RELOCATION
	EXISTING RELOCATED IN NEW WORK
	NEW WORK
	CONNECT TO EXISTING
	AIRFLOW / PIPE FLOW DIRECTION
	PIPE TURNING DOWN
	PIPE TURNING UP
	ROOM THERMOSTAT
	ISOLATION VALVE
	PIPE BRANCH OFF TOP
	PIPE BRANCH OFF BOTTOM
	CAP
PLUMBING	
	SANITARY DRAINAGE - ABOVE GROUND
	SANITARY DRAINAGE - BELOW FLOOR
	DOMESTIC COLD WATER SUPPLY
	DOMESTIC HOT WATER SUPPLY
	P-TRAP
	FLOOR DRAIN
	Denotes fixture type per specification
VENTILATION	
	FUSIBLE LINK FIRE DAMPER
	COMBINATION SMOKE/FIRE DAMPER
	BALANCING DAMPER
	RECTANGULAR DUCTWORK - DIMENSION AS SHOWN
	ROUND DUCTWORK - DIMENSION AS SHOWN
	CEILING SUPPLY AIR DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	CEILING EXHAUST/RETURN GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT
	FLEXIBLE DUCT (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF
	DIFFUSER TAG
	GRILLE TAG
MEDICAL GAS SYSTEM	
	MEDICAL VACUUM
	OXYGEN
	COMPRESSED AIR
	VACUUM OUTLET
	OXYGEN OUTLET

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

**GENERAL NOTES:**

- FOR PHASING REQUIREMENTS AND HOURS OF OPERATION REFER TO ARCHITECTURAL DRAWINGS & SPECIFICATIONS.
- COORDINATE WORK WITH HOSPITAL AND PERFORM WORK AT TIMES SUITABLE TO THE HOSPITAL. ALLOW FOR OFF-HOURS WORK. COORDINATE ALL SHUTDOWNS WITH HOSPITAL C/W HOSPITAL NOTICE SHUTDOWN REQUIREMENTS.
- CAREFULLY CO-ORDINATE NEW SERVICES WITH EXISTING BUILDING STRUCTURE, EXISTING SERVICES & WORK OF DIVISION 16 PRIOR TO FABRICATION &/OR INSTALLATION OF WORK. INCLUDE FOR OFFSETS, TRANSFORMATIONS, ETC., AS REQUIRED TO ENSURE THAT REQUIRED CEILING HEIGHTS TO THE CONSULTANT'S DETAILS & SCHEDULES ARE MAINTAINED.
- EXISTING SERVICES INDICATED ON THE DRAWINGS TO BE REMOVED &/OR RELOCATED SHALL BE VERIFIED ON SITE. EXISTING ACTIVE SERVICES WHICH MAY BE EXPOSED DURING DEMOLITION OF PARTITIONS & WHICH MUST BE RELOCATED TO SUIT NEW PARTITION LAYOUTS SHALL BE PROMPTLY REPORTED TO THE CONSULTANT FOR RESOLUTION.
- LOCATION OF EXISTING SERVICES HAVE BEEN OBTAINED FROM EXISTING DRAWINGS & VISUAL SITE INSPECTION WHERE POSSIBLE. CONTRACTOR TO VERIFY PRIOR TO WORK COMMENCING.
- CONFIRM EXACT SIZE & LOCATIONS OF EXISTING SERVICES AT POINTS OF CONNECTION PRIOR TO FABRICATION &/OR INSTALLATION OF NEW SERVICES. PROVIDE TRANSFORMATIONS FOR SERVICES AS REQUIRED.
- COORDINATE ALL MECHANICAL WORK WITH OTHER TRADES.

**GENERAL HVAC NOTES:**

- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE WITH THE HOSPITAL THE DATE AND PERIOD OF TIME REQUIRED FOR DISCONNECTING AND/OR MAKING NEW CONNECTIONS TO SERVICES/ SYSTEMS IN ORDER TO KEEP INTERRUPTIONS OF THE HOSPITAL DAILY OPERATIONS AS MINIMAL AS POSSIBLE.
- CONTRACTOR SHALL INCLUDE FOR REPAIR OF EXISTING INSULATION DAMAGED DURING DEMOLITION & CONSTRUCTION.
- CONTRACTOR SHALL ALLOW FOR THE RECALIBRATION OF EXISTING THERMOSTATS AND ENSURE THERMOSTATS ARE OPERATING PROPERLY.
- CONTRACTOR SHALL VERIFY THAT ANY AND/ALL EXISTING SERVICES BEING REMOVED ONLY SERVE THIS AREA AND DO NOT SERVE ANY OTHER AREAS THAT ARE REQUIRED TO BE KEPT IN OPERATION.
- CONTRACTOR SHALL REBALANCE THE GRILLES AND DIFFUSERS TO THE AIR VOLUMES INDICATED ON THIS DRAWING IN BOLD TEXT. CONTRACTOR TO MAKE SURE AIR VOLUME ADJACENT TO SCOPE OF WORK IS REINSTATED FOLLOWING WORK. REPORT ANY DISCREPANCIES BETWEEN THE MEASURED AIR VOLUME AND THE CURRENT DESIGN AIR VOLUMES INDICATED ON THE DRAWINGS TO THE CONSULTANT FOR RESOLUTION. REFER TO AIR STANDARD CAN/CSA-2317.13 FOR ADDITIONAL TEMPORARY BALANCING REQUIREMENTS DURING CONSTRUCTION.
- MECHANICAL AND BALANCING CONTRACTORS SHALL PROVIDE ALL REQUIRED BALANCING DAMPERS ON NEW OR EXISTING DUCT BRANCHES TO ENSURE SYSTEM CAN BE BALANCED TO THE AIR VOLUMES INDICATED.
- COORDINATE ALL DIFFUSER AND GRILLE LOCATIONS WITH NEW REFLECTED CEILING PLAN. PROVIDE DUCT OFFSET AS REQUIRED.

**PLUMBING GENERAL NOTES:**

- ALL EXISTING PLUMBING SERVICES SHOWN ARE APPROXIMATE AND BASED ON RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES, LOCATION AND INVERTS OR DRAINS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
- ANY PLUMBING SERVICES THAT MAY NOT BE SHOWN ON THE DRAWING AND ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO OWNER.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS OPERATION OF THE PLUMBING STACKS AND WATER SUPPLY MAINS THAT REQUIRE OFFSETTING AND MAKING NEW CONNECTIONS DURING CONSTRUCTION PERIOD.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE WITH THE HOSPITAL THE DATE AND PERIOD OF TIME REQUIRED FOR DISCONNECTING AND MAKING NEW CONNECTIONS TO PLUMBING PIPING, IN ORDER TO KEEP INTERRUPTIONS OF HOSPITAL OPERATIONS TO A MINIMUM.
- CONTRACTORS SHALL COORDINATE WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES FOR FINAL PIPE ROUTING ON SITE.
- CONTRACTOR SHALL ALLOW IN HIS PRICE FOR OFF HOURS WORK IN ORDER TO KEEP THE HOSPITAL FUNCTIONING DURING CONSTRUCTION PERIOD.
- UNLESS OTHERWISE NOTED, TURN OVER ALL PLUMBING FIXTURES NOT BEING REUSED TO OWNER.
- ALL SERVICES BEYOND PHASE LINE TO BE MAINTAINED. CONTRACTOR TO NOTIFY OWNER AND CONSULTANT OF ANY DISRUPTION TO MECHANICAL SERVICES ON OTHER LEVELS AND BEYOND PHASE LINE.
- DISCONNECT AND REMOVE ALL PLUMBING SERVICES ASSOCIATED WITH REMOVED OWNER'S EQUIPMENT. CUT BACK AND CAP EXISTING SERVICES BEHIND BUILDING FINISHES - TYPICAL.

**GENERAL DEMOLITION WORK & RETENTION OF EXISTING SERVICES NOTES:**

THESE DRAWINGS ARE ISSUED TO SHOW SCOPE OF WORK ONLY. THE CONTRACTOR MUST PERFORM A SITE INSPECTION (INCLUDING CEILING SPACES) DURING THE TENDER PERIOD AND ENSURE THAT ALL WORK THAT IS VISIBLE IS INCLUDED IN THE DEMOLITION CONTRACT. ALL EXISTING SERVICES THAT PASS THROUGH THE RENOVATION AREA (UNLESS OBSOLETE) ARE TO BE MAINTAINED AND/OR RELOCATED TO SUIT THE SCOPE OF WORK.

MECHANICAL DRAWING LIST	
SHEET NUMBER	SHEET TITLE
M001	MECHANICAL KEY PLAN, LEGEND, DRAWING LIST AND NOTES
M101	MECHANICAL PLUMBING AND MEDICAL GAS PLAN - DEMOLITION
M102	MECHANICAL PLUMBING AND MEDICAL GAS PLAN - NEW WORK
M201	MECHANICAL HVAC PLAN - DEMOLITION
M202	MECHANICAL HVAC PLAN - NEW WORK
M301	MECHANICAL DETAILS AND SCHEDULES



1 MECHANICAL KEY PLAN  
M001 SCALE: 1:150

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3	ISSUED FOR TENDER	2025-09-19

HRH Behavioural Unit

2111 Finch Ave W., North York, ON  
M3N 1N1

**MECHANICAL KEY PLAN,  
LEGEND, DRAWING LIST  
AND NOTES**

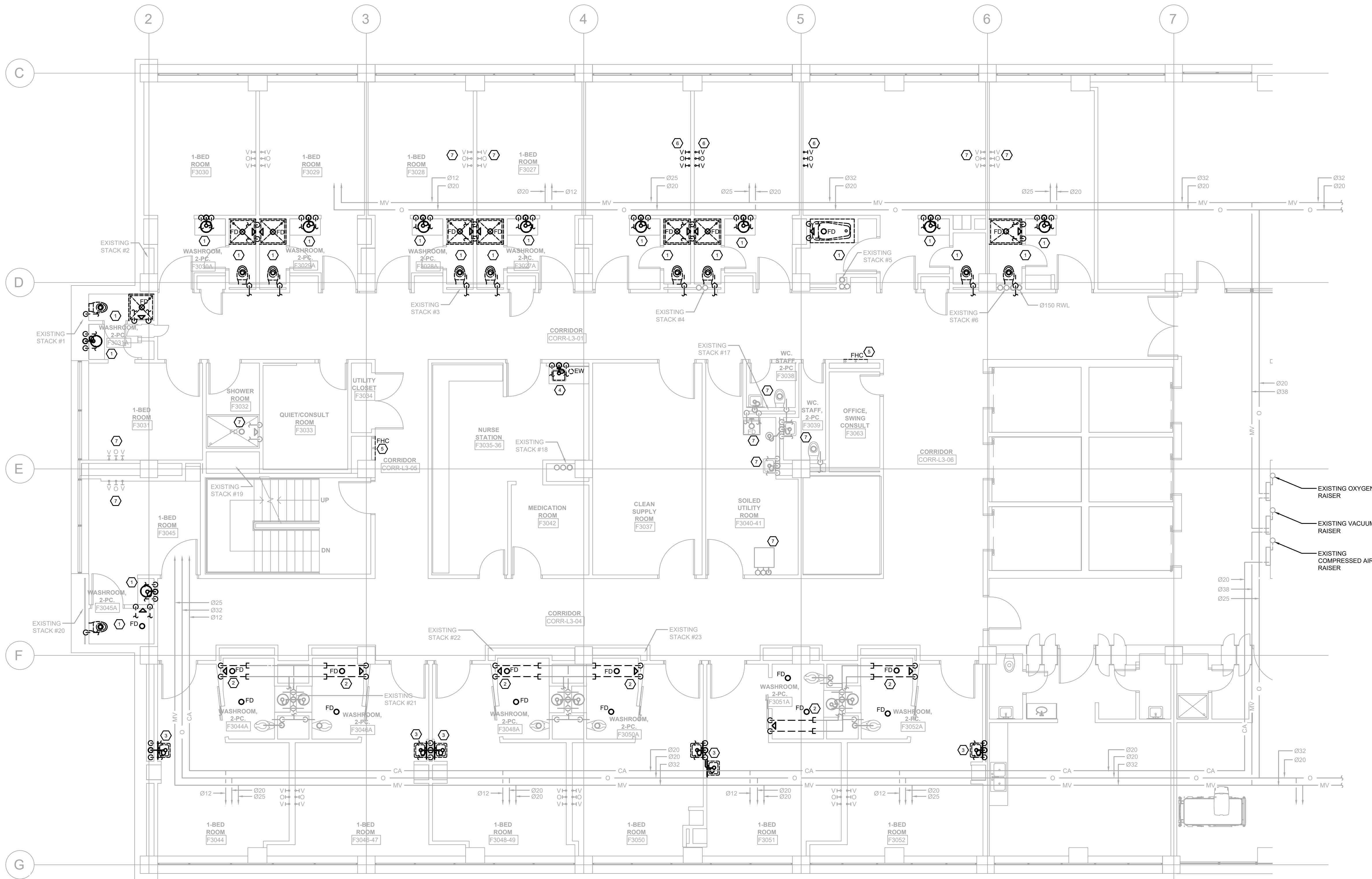
PROJECT NUMBER: HC-25-054  
DATE: MAY 30, 2025  
SCALE: As indicated

SHEET NUMBER:

**M001**

- GENERAL NOTES**
1. CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT.
  2. ALL MECHANICAL SERVICES HAVE NOT BEEN SHOWN FOR CLARITY.
  3. PROVIDE VENTING TO ALL FIXTURES ACCORDING TO OBC AND LOCAL JURISDICTIONAL CODES. CONNECT TO NEAREST PLUMBING VENT MAIN. CONTRACTOR TO CONFIRM ON SITE.
  4. PROVIDE SHUTOFF VALVES ON ALL SERVICES TO FIXTURES.
  5. GENERAL CONTRACTOR TO SCAN AND CORE FOR NEW PLUMBING LINES THROUGH FLOORS AS REQUIRED. COORDINATE WITH FACILITIES AND ALL DISCIPLINES.
  6. COORDINATE ALL SHUT DOWN WITH FACILITIES. ADHERE TO HOSPITAL SHUT DOWN NOTICE AND PROCEDURES PRIOR TO MEDICAL GAS SHUT DOWN.

- DEMOLITION NOTES:**
1. DEMOLISH ALL EXISTING PLUMBING FIXTURES IN EXISTING WASHROOM. CUT BACK EXISTING PLUMBING SERVICES AT MAIN. PREPARE EXISTING SERVICES FOR RECONNECTION AS REQUIRED. EXISTING FLOOR DRAIN TO BE CAP OFF BELOW FLOOR. ALL EXISTING PIPING INCLUDING ABANDONED PIPING TO BE CUT BACK BEHIND FINISHED SURFACES AND CAPPED.
  2. DEMOLISH EXISTING SHOWER, MIXING VALVE AND FLOOR DRAINS. CUT BACK AND CAP OFF EXISTING SERVICES BEHIND FINISHED SURFACES/ BELOW FLOOR. EXISTING SINK AND WATER CLOSET TO REMAIN.
  3. REMOVE EXISTING SINK AND CUT BACK EXISTING SERVICES. PREPARE EXISTING SERVICES FOR RECONNECTION. RETURN EXISTING FIXTURES TO OWNER.
  4. DEMOLISH EXISTING SINK AND EYE WASH. CAP BACK EXISTING PLUMBING SERVICES AT MAIN BEHIND FINISHED SURFACE / BELOW FLOOR.
  5. EXISTING FIRE HOSE CABINET TO REMAIN. EXISTING GLASS DOOR TO BE REPLACED WITH LOCKABLE METAL.
  6. DEMOLISH EXISTING MEDICAL GAS OUTLETS. CUT BACK AND CAP OFF EXISTING GAS PIPING AT MAIN.
  7. EXISTING MEDICAL GAS OUTLETS / PLUMBING FIXTURES / EQUIPMENT TO REMAIN.



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**MECHANICAL PLUMBING  
 AND MEDICAL GAS PLAN -  
 DEMOLITION**

PROJECT NUMBER: HC-25-054  
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 SCALE: As indicated

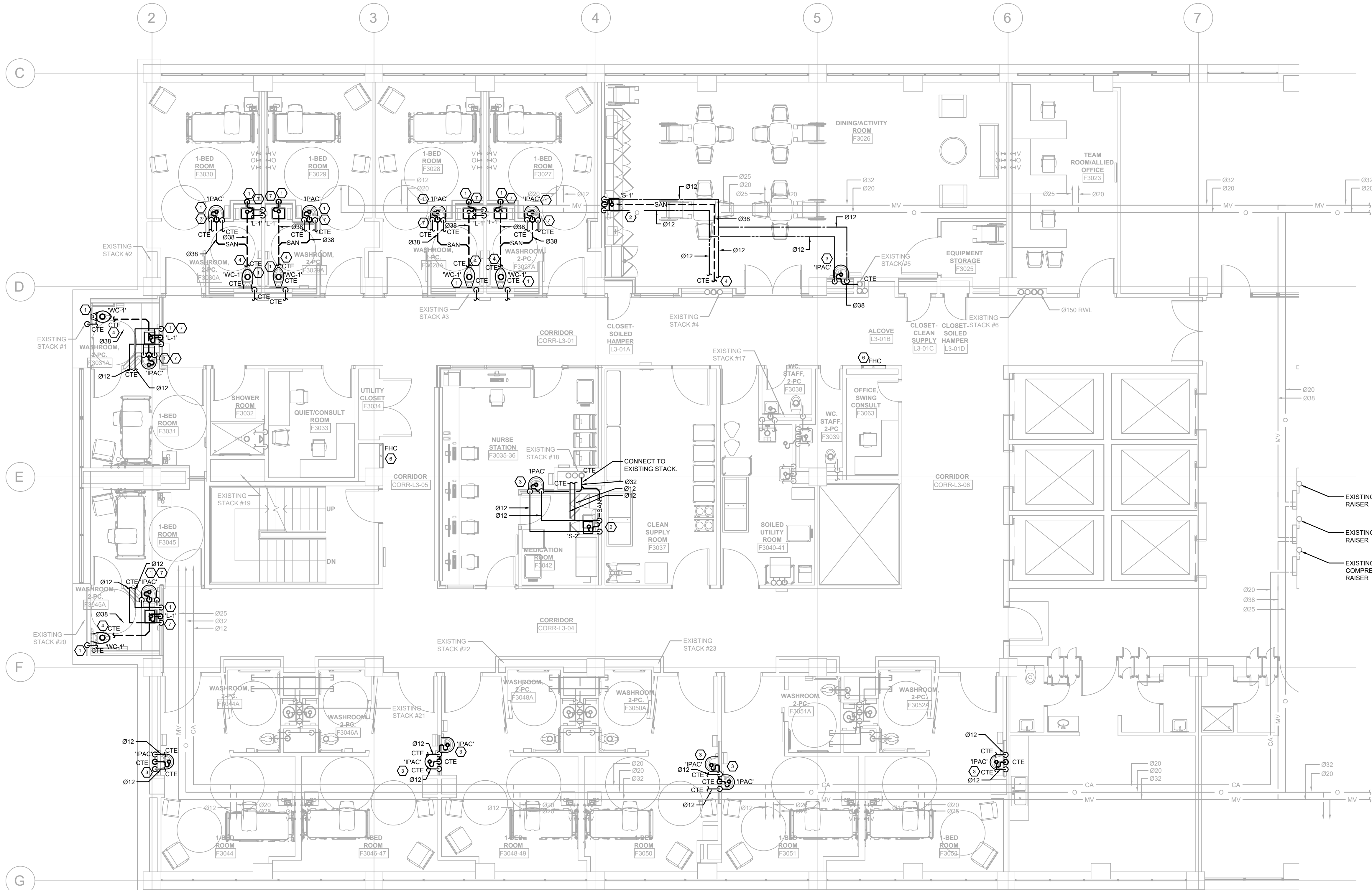
SHEET NUMBER:

**M101**

**1** MECHANICAL PLUMBING AND MEDICAL GAS PLAN - DEMOLITION  
 M101 SCALE: 1:75

- GENERAL NOTES**
1. CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT.
  2. ALL MECHANICAL SERVICES HAVE NOT BEEN SHOWN FOR CLARITY.
  3. PROVIDE VENTING TO ALL FIXTURES ACCORDING TO OBC AND LOCAL JURISDICTIONAL CODES. CONNECT TO NEAREST PLUMBING VENT MAIN. CONTRACTOR TO CONFIRM ON SITE.
  4. PROVIDE SHUTOFF VALVES ON ALL SERVICES TO FIXTURES.
  5. GENERAL CONTRACTOR TO SCAN AND CORE FOR NEW PLUMBING LINES THROUGH FLOORS AS REQUIRED. COORDINATE WITH FACILITIES AND ALL DISCIPLINES.
  6. COORDINATE ALL SHUT DOWN WITH FACILITIES. ADHERE TO HOSPITAL SHUT DOWN NOTICE AND PROCEDURES PRIOR TO MEDICAL GAS SHUT DOWN.
  7. INSULATE ALL EXISTING DOMESTIC PIPING WITH MISSING OR BROKEN INSULATION WITHIN AREA OF SCOPE TO PROJECT STANDARDS. (APPLIES TO ALL AREA OF SCOPE ON DRAWING)

- NEW WORK NOTES:**
1. INSTALL NEW PLUMBING FIXTURE IN WASHROOM. RECONNECT EXISTING NEW PLUMBING SERVICES C/W VENTING TO EXISTING. MODIFY AND EXTEND EXISTING PLUMBING SERVICES AS REQUIRED TO MAKE FULL CONNECTION.  
- 'IPAC' - Ø12 DCW, Ø12 DHW, Ø38 SAN  
- 'L-1' - Ø12 DCW, Ø12 DHW, Ø38 SAN  
- 'WC-1' - Ø25 DCW, Ø75 SAN
  2. CONNECT NEW Ø12 DCW, Ø12 DHW AND Ø38 SAN C/W VENTING TO NEW 'S-1'. MODIFY AND EXTEND EXISTING PLUMBING SERVICES REQUIRED TO MAKE FULL CONNECTION. Ø38 SANITARY LINE DOWN TO FLOOR BELOW. CONNECT TO NEAREST SANITARY MAIN. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.
  3. CONNECT NEW Ø12 DCW, Ø12 DHW AND Ø38 SAN C/W VENTING TO NEW 'IPAC'. MODIFY AND EXTEND EXISTING PLUMBING SERVICES REQUIRED TO MAKE FULL CONNECTION.
  4. CONNECT NEW Ø38 SANITARY LINE IN THIS AREA ON FLOOR BELOW AND NEW Ø12 DCW AND Ø12 DHW IN CEILING SPACE. CONTRACTOR TO CONFIRM EXACT LOCATION.
  5. CONNECT NEW Ø12 DCW AND Ø12 DHW, TO EXISTING IN THIS AREA IN CEILING SPACE. CONTRACTOR TO CONFIRM EXACT LOCATION.
  6. REPLACE CABINET GLASS DOOR WITH LOCKABLE METAL COVER.
  7. Ø38 (DN) TO FLOOR BELOW. CONNECT NEW SANITARY LINE TO NEAREST EXISTING MAIN. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.



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**MECHANICAL PLUMBING  
 AND MEDICAL GAS PLAN -  
 NEW WORK**

PROJECT NUMBER: HC-25-054

DATE: MAY 30, 2025

SCALE: As indicated

SHEET NUMBER:

**M102**

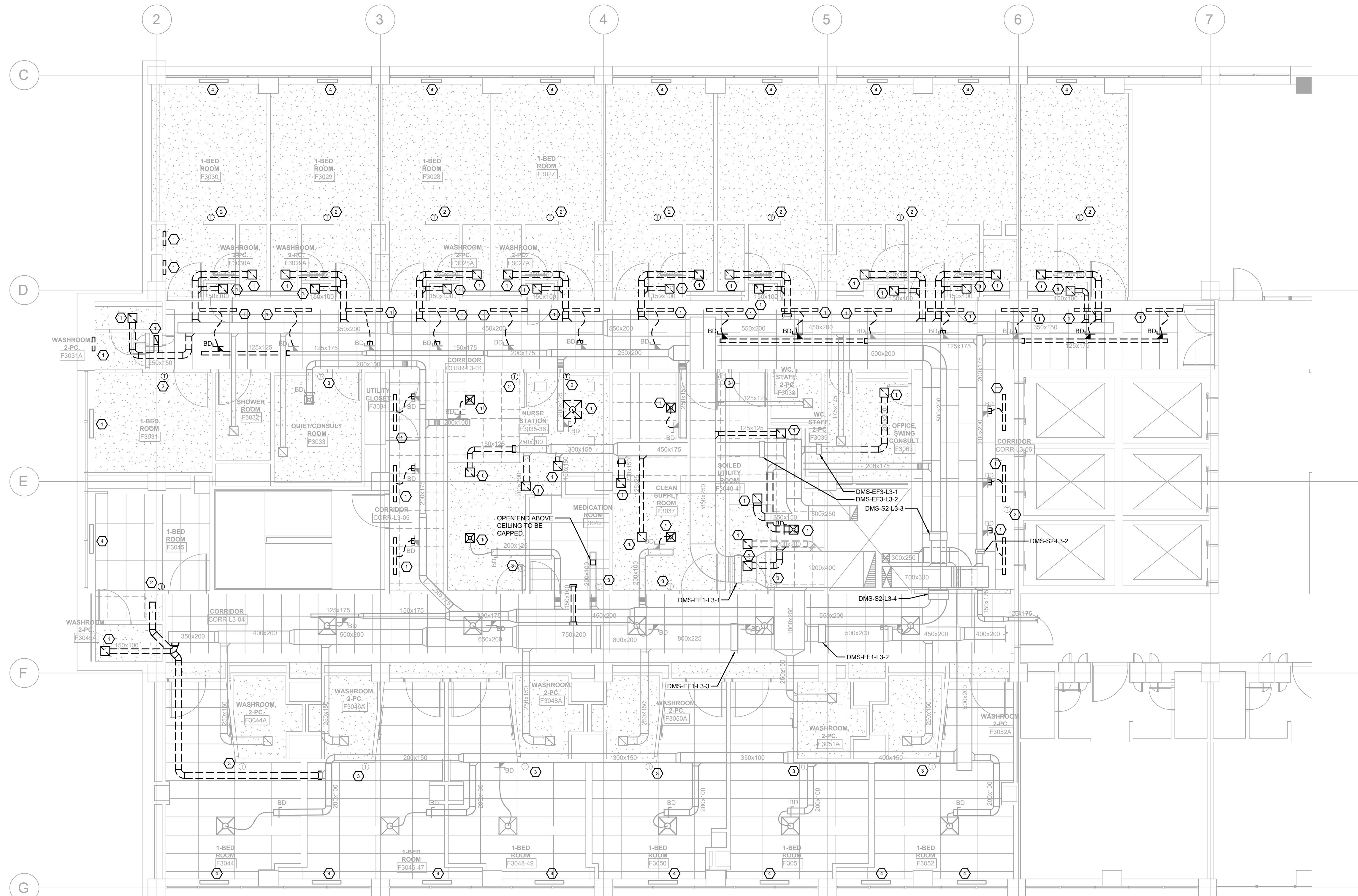
**1 MECHANICAL PLUMBING AND MEDICAL GAS PLAN - NEW WORK**  
 M102 SCALE: 1:75

**GENERAL NOTES**

1. CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT.
2. ALL MECHANICAL SERVICES HAVE NOT BEEN SHOWN FOR CLARITY.
3. CLEAN AND VACUUM ALL EXISTING GRILLES IN AREA OF WORK
4. ALL AIR FLOWS IN L/s
5. PROVIDE BALANCING DAMPERS IN DUCTWORK WHERE REQUIRED FOR AIR BALANCING
6. COORDINATE ALL SHUTDOWNS FOR SPRINKLER AND FIRE LINES WITH FACILITIES PRIOR TO ANY WORK BEING COMPLETED.

**DEMOLITION NOTES:**

1. DEMOLISH EXISTING DIFFUSER, GRILLE, CUTBACK / CAP EXISTING DUCTWORK AT MAIN. PREPARE EXISTING DUCTWORK FOR RECONNECTION AS REQUIRED.
2. RELOCATE EXISTING THERMOSTAT.
3. EXISTING THERMOSTAT TO REMAIN.
4. DEMOLISH EXISTING INDUCTION UNIT ENCLOSURE.



**1 MECHANICAL HVAC PLAN - DEMOLITION**  
SCALE: 1:75



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**MECHANICAL HVAC PLAN - DEMOLITION**

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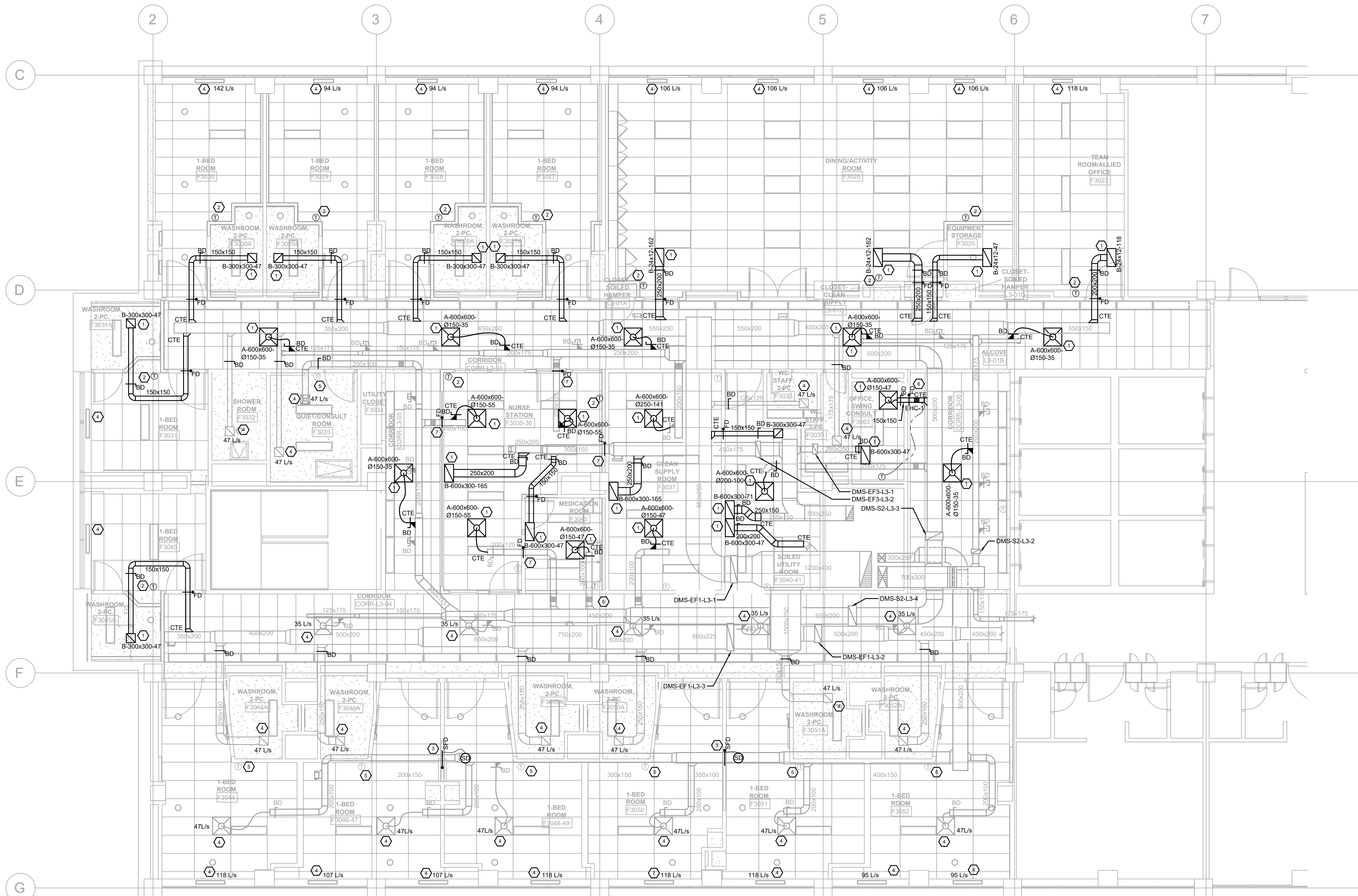
**M201**

**GENERAL NOTES**

1. CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT.
2. ALL MECHANICAL SERVICES HAVE NOT BEEN SHOWN FOR CLARITY.
3. CLEAN AND VACUUM ALL EXISTING GRILLES IN AREA OF WORK
4. ALL AIR FLOWS IN L/s
5. PROVIDE BALANCING DAMPERS IN DUCTWORK WHERE REQUIRED FOR AIR BALANCING
6. COORDINATE ALL SHUTDOWNS FOR SPRINKLER AND FIRE LINES WITH FACILITIES PRIOR TO ANY WORK BEING COMPLETED.
7. INSULATE ALL EXISTING DUCTWORK WITH MISSING OR BROKEN INSULATION WITHIN AREA OF SCOPE TO PROJECT STANDARDS. (APPLIES TO ALL AREA OF SCOPE ON DRAWING)

**NEW WORK NOTES:**

1. INSTALL NEW DIFFUSERS / GRILLES. CONNECT TO EXISTING DUCTWORK. MODIFY AND EXTEND EXISTING DUCTWORK AS REQUIRED TO MAKE FULL CONNECTION
2. RELOCATE EXISTING THERMOSTAT. PROVIDE ADDITION CONTROL TUBING AS REQUIRED TO MAKE FULL CONNECTION C/W TAMPER PROOF COVERS.
3. INSTALL NEW COMBINATION DAMPER C/W SMOKE DETECTOR ON EXISTING DUCTWORK AS REQUIRED TO SUIT NEW FIRE RATED WALL.
4. REBALANCE EXISTING DIFFUSERS / GRILLES / INDUCTION UNIT TO AIR FLOW SHOWN. INSTALL NEW BALANCING DAMPER ON EXISTING DUCTWORK AS REQUIRED FOR BALANCING.
5. NEW TAMPER PROOF COVER TO BE INSTALLED ON EXISTING THERMOSTAT.
6. INSTALL NEW ELECTRIC REHEAT COIL C/W THERMOSTAT WITH TAMPER PROOF COVER.
7. INSTALL NEW FIRE DAMPER ON EXISTING DUCTWORK. MODIFY EXISTING DUCTWORK TO MAKE FULL CONNECTION. CONTRACTOR TO CONFIRM EXACT DUCT SIZE PRIOR TO ORDERING.



**1** MECHANICAL HVAC PLAN - NEW WORK  
M202 SCALE: 1:75



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**MECHANICAL HVAC PLAN - NEW WORK**

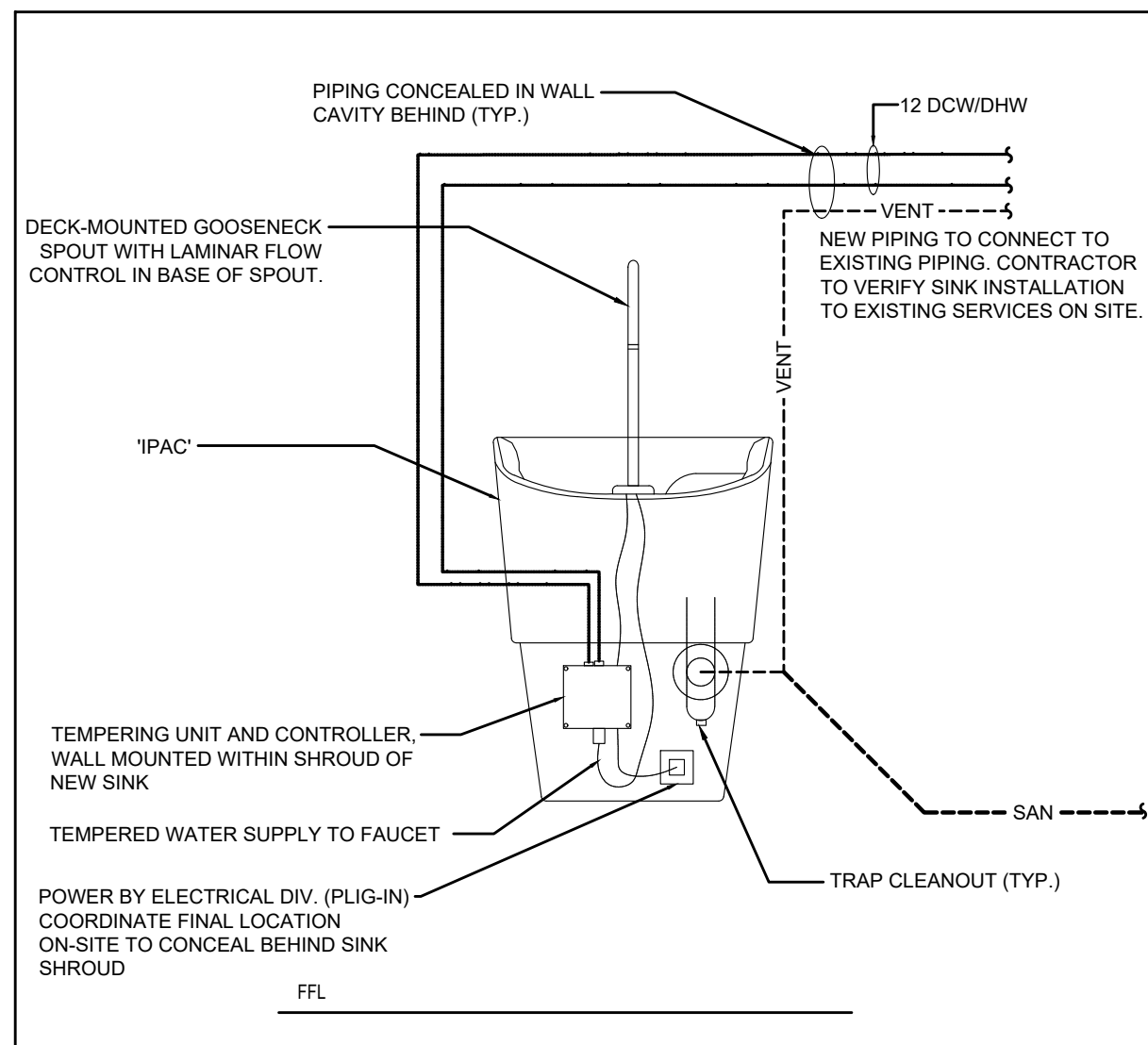
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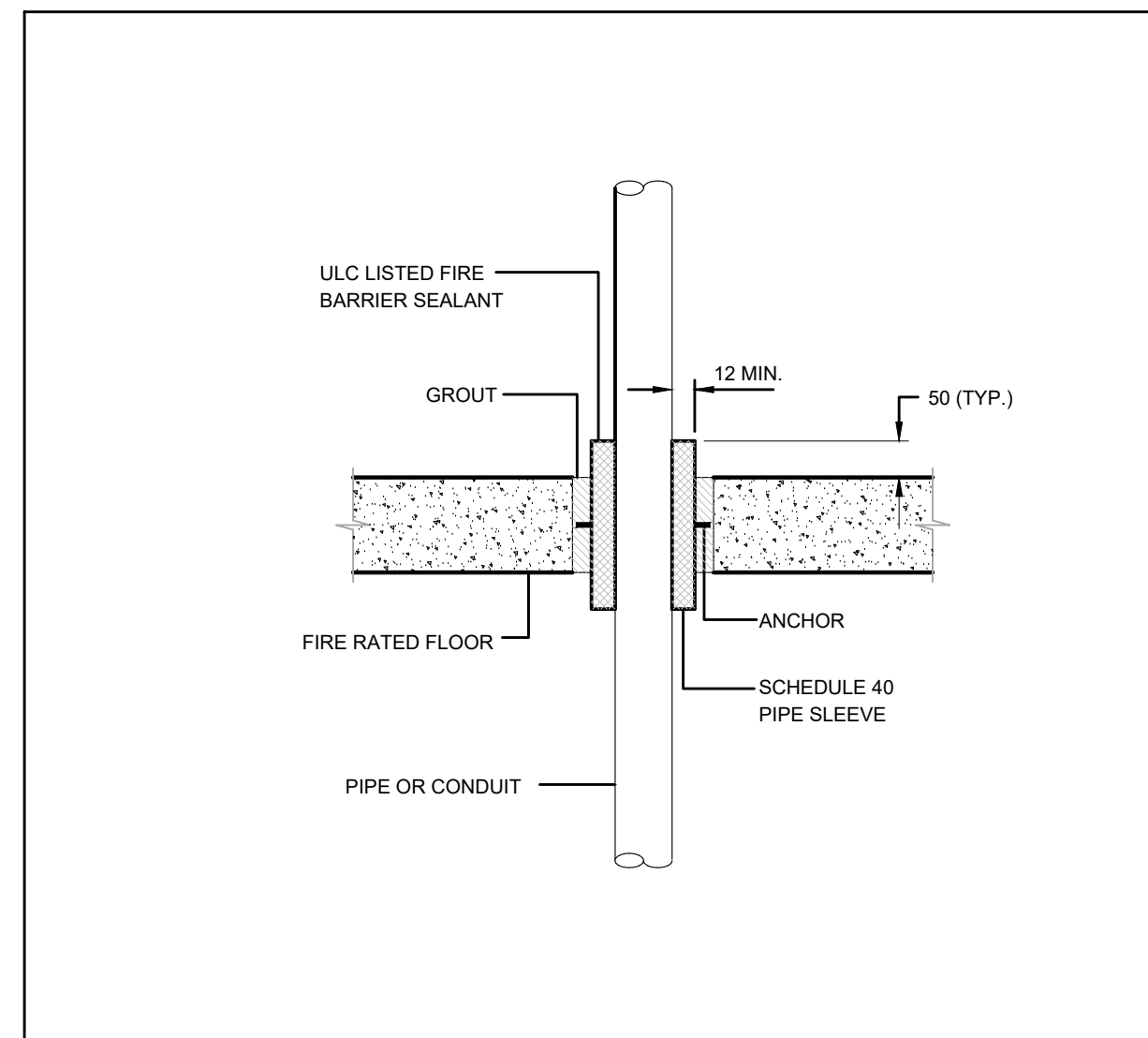
SCALE: As indicated

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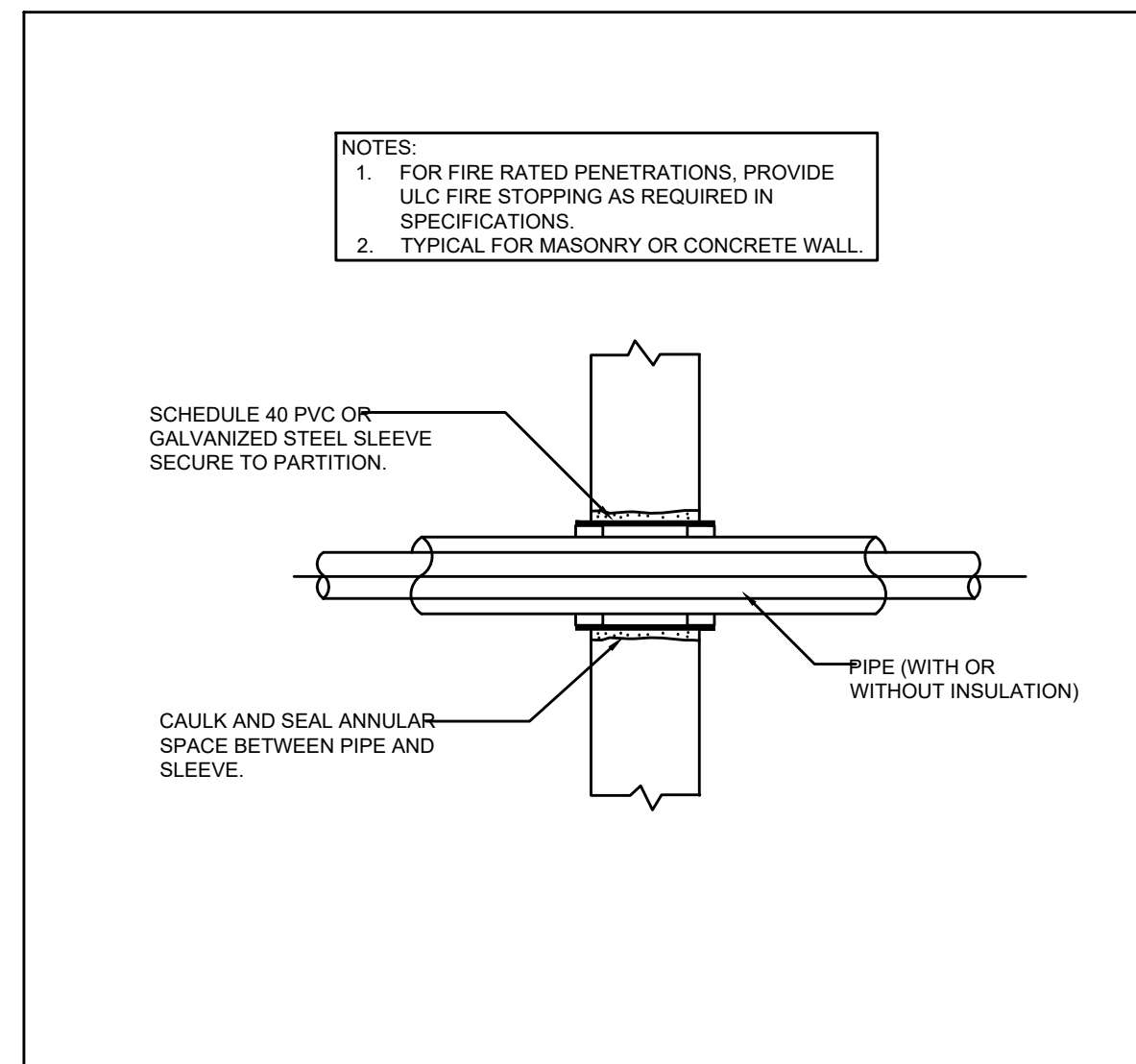
**M202**



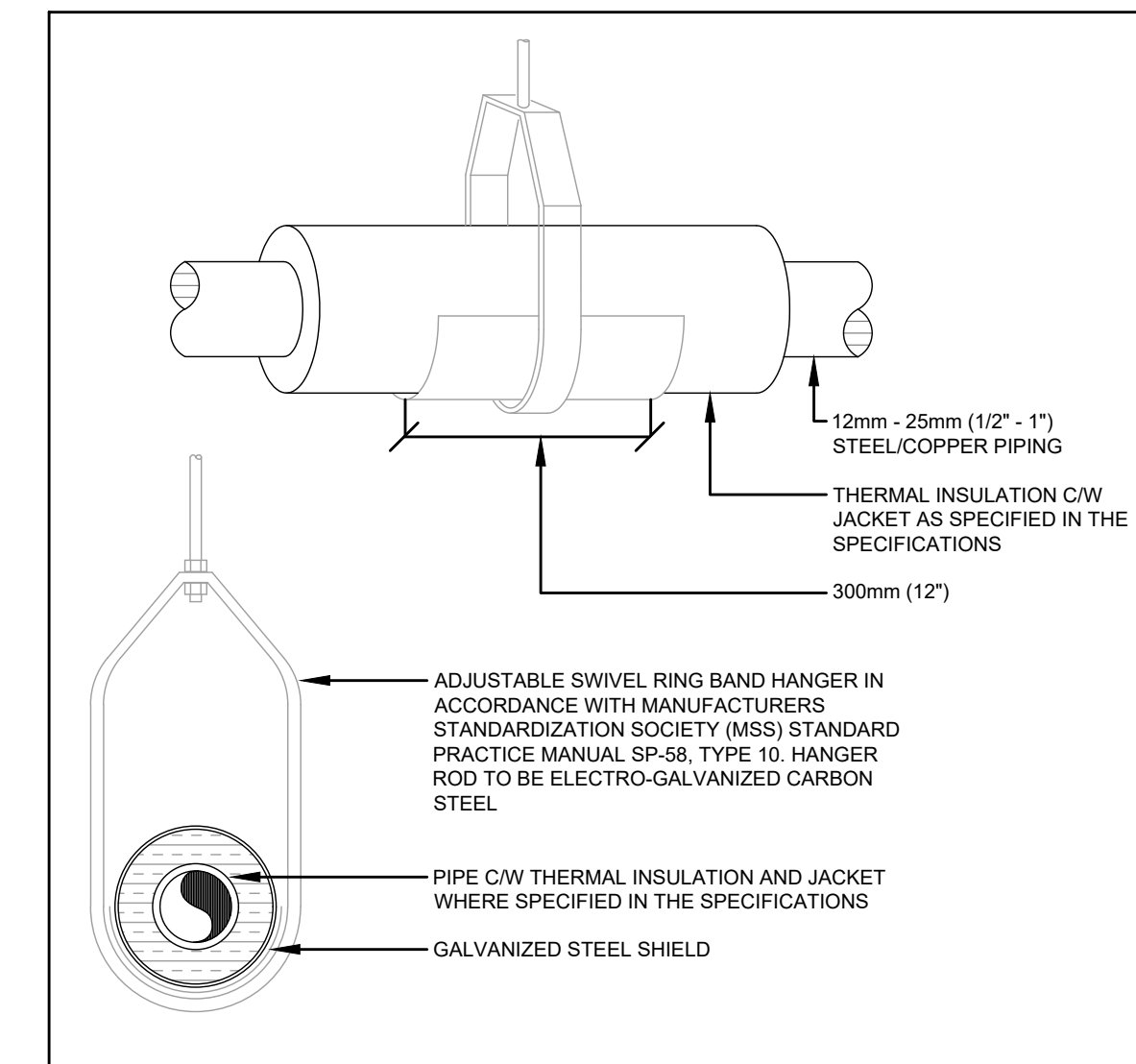
1 HAND HYGIENE SINK (IPAC) INSTALL DETAIL  
M301 N.T.S.



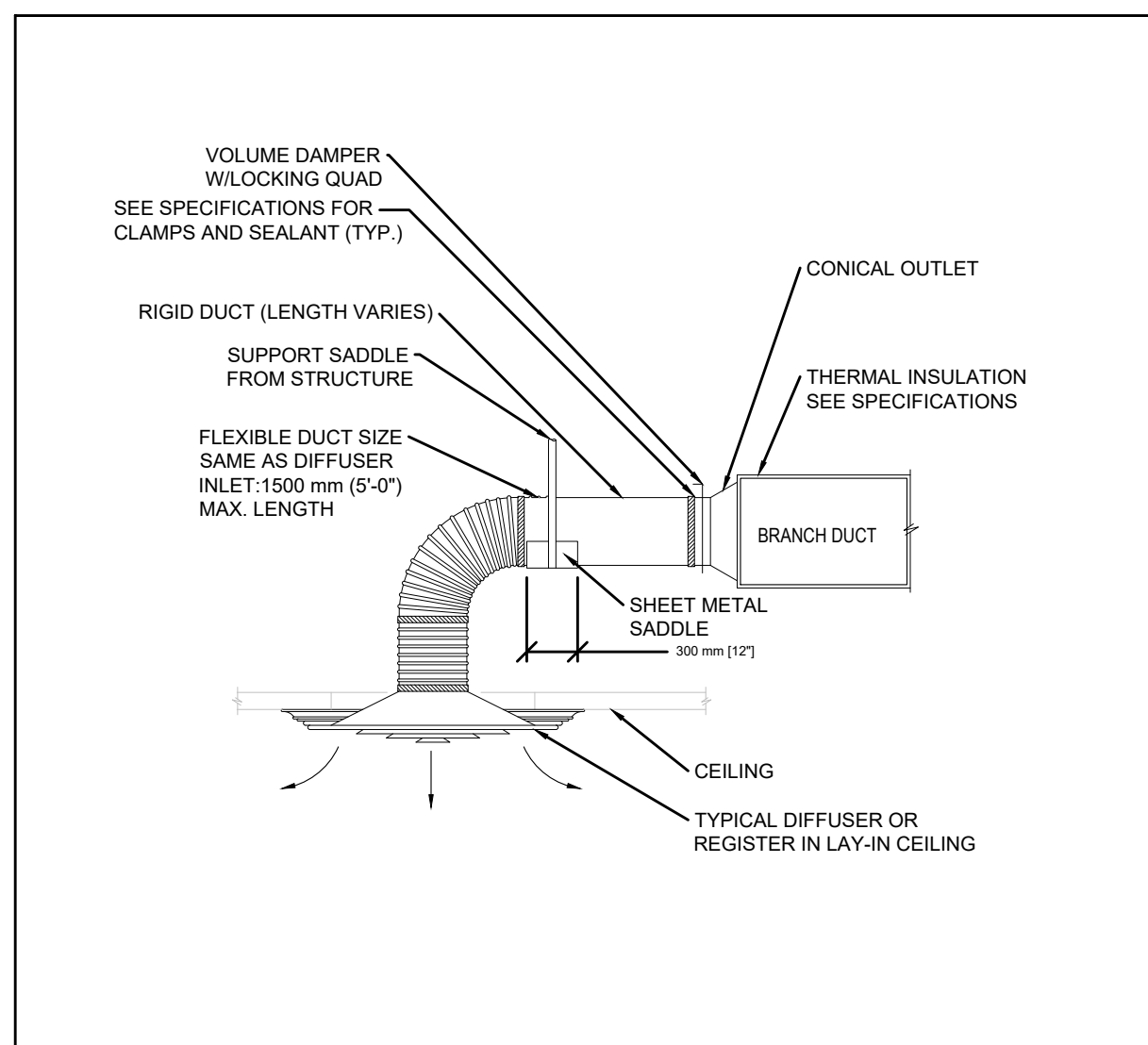
2 PIPE PENETRATION THRU FIRE RATED FLOOR DETAIL  
M301 N.T.S.



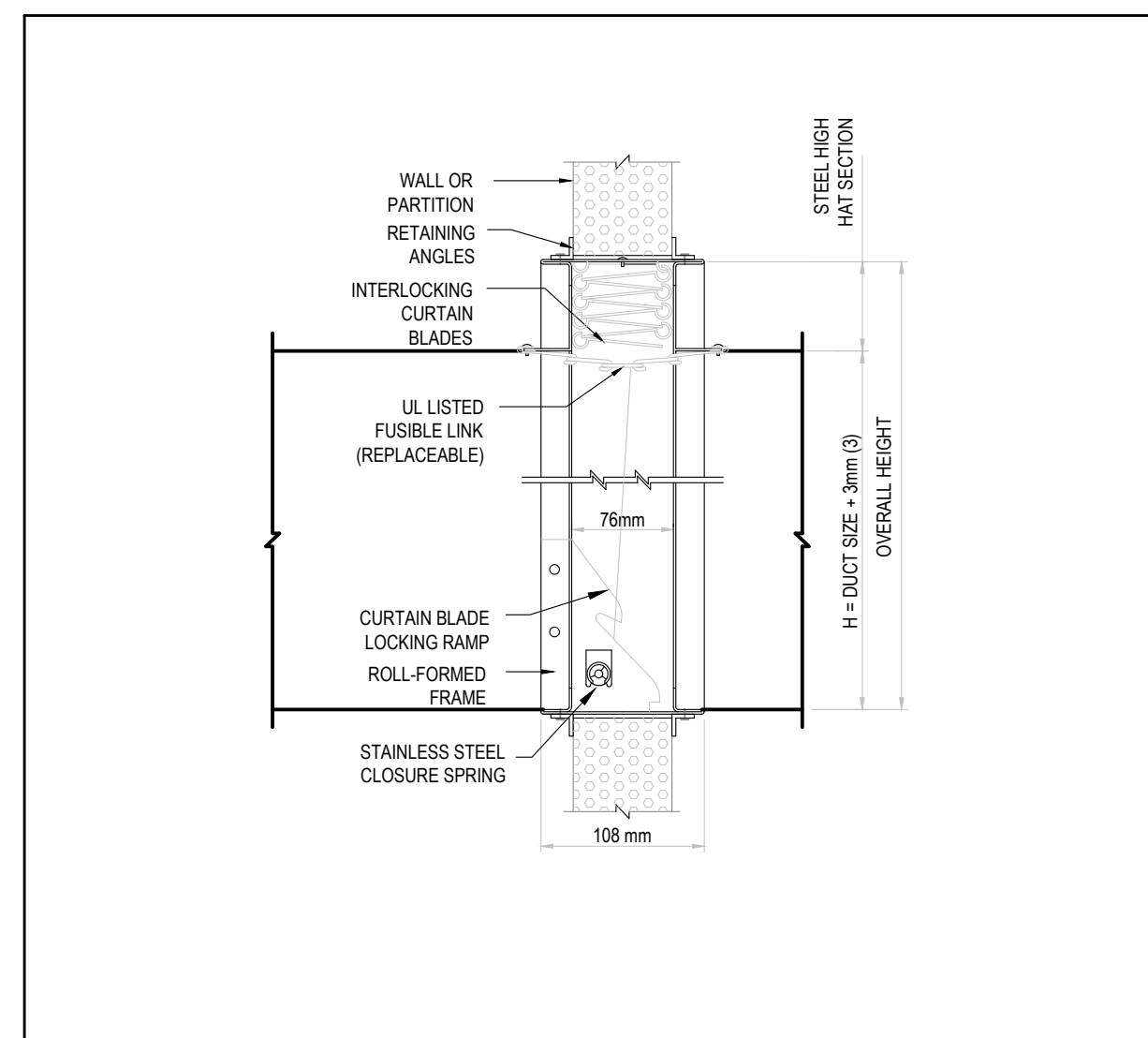
3 PIPE PENETRATING THRU WALL DETAIL  
M301 N.T.S.



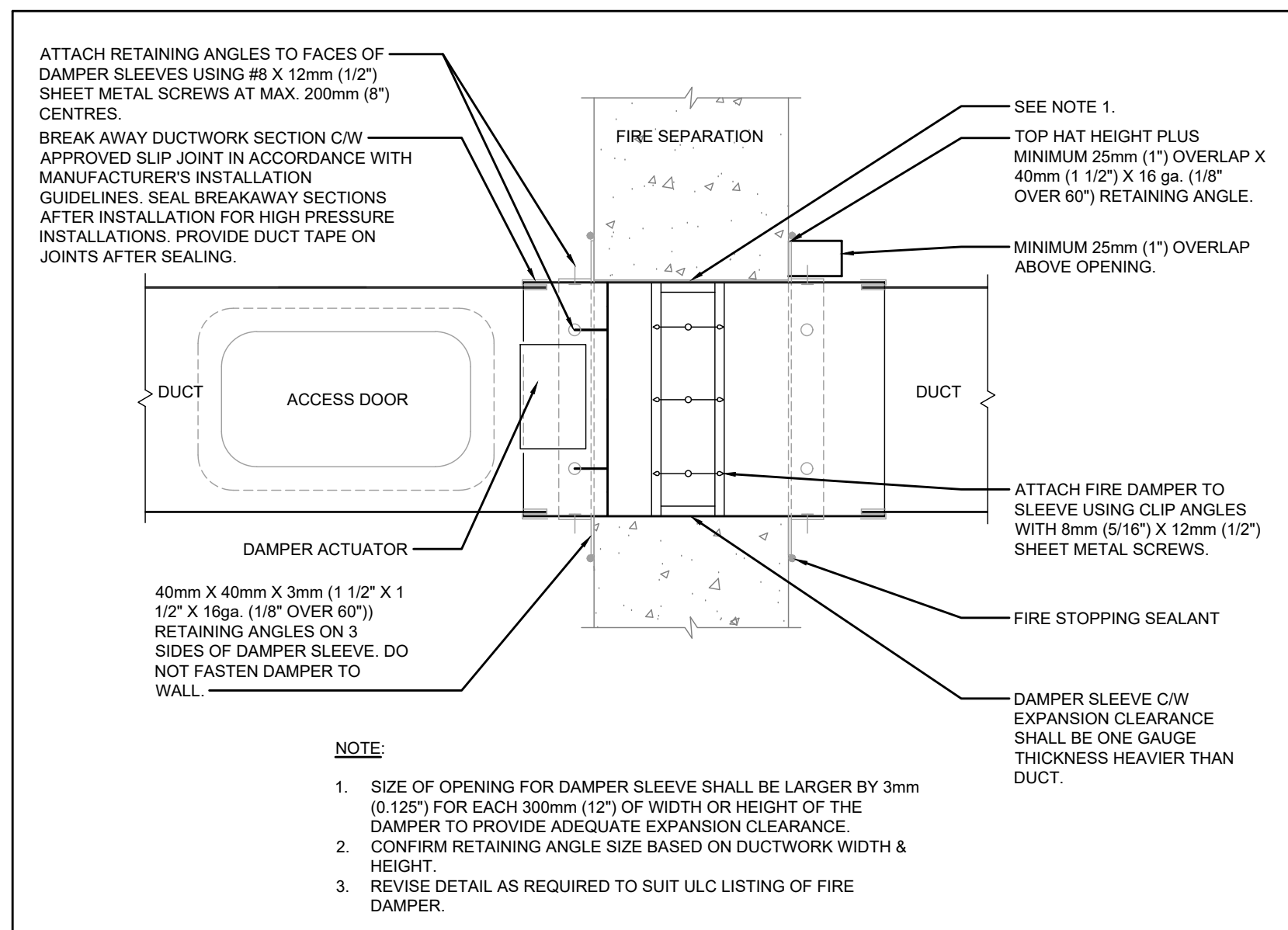
4 PIPING HANGERS AND SUPPORTS  
M301 N.T.S.



5 DIFFUSER AND FLEXIBLE CONNECTION TO DUCT DETAIL  
M301 N.T.S.



6 FIRE DAMPER INSTALLATION  
M301 N.T.S.



7 COMBINATION FIRE SMOKE DAMPER  
M301 N.T.S.

SCHEDULE OF GRILLES & DIFFUSERS						
TYPE	SERVICE	MODEL NO.	MODEL SIZE (MM)	VOLUME CONTROL	FINISH	REMARKS
A	CEILING SUPPLY	EH PRICE SCDA	AS NOTED	YES	B12	1, 2, 3, 4, 5
B	CEILING RETURN/EXHAUST	EH PRICE 10A	AS NOTED	YES	B12	1, 2, 3, 4

NOTES:  
1. ALL DIFFUSER AND GRILLE FRAMES SHALL SUIT CEILING CONSTRUCTION.  
2. ALL DAMPERS SHALL BE THE SAME MATERIAL AS THE DIFFUSER OR GRILLE.  
3. REFER TO ARCHITECT'S DRAWINGS FOR CEILING CONSTRUCTION.  
4. GRILLE AND DIFFUSER COLOR TO SUIT ARCHITECTURAL DIRECTION.

HEATING COIL SCHEDULE								
REF.	MODEL NUMBER	AIR SIDE			ELECTRICAL		COIL SPECIFICATION	
		AIR FLOW (L/s)	PRESS DROP (Pa)	ENT db (°C)	LVG db (°C)	HEATING CAPACITY (KW)	V/PH/Hz	REMARKS
EHC-1	CARNES	47	-	13	27	1	120/1/60	IN DUCT MODULATING ELECTRIC HEATING COIL

NOTE:  
1. PROVIDE TRANSFORMERS FOR ELECTRONIC CONTROL VALVE ON HEATING COIL AS REQUIRED. COORDINATE WITH ELECTRICAL.  
2. OTHER ACCEPTABLE: DAIKIN, TUTIS  
3. PROVIDE ALL ACCESSORIES AND FITTING REQUIRED FOR FULL INSTALLATION.



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MECHANICAL DETAILS AND  
SCHEDULES

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