

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	FIRE DAMPER	[Symbol]	SMOKE DAMPER
[Symbol]	MOTOR OPERATED DAMPER	[Symbol]	POSITIVE SEAL DAMPER
[Symbol]	MANUAL DAMPER	[Symbol]	GRAVITY OR BACKDRIFT DAMPER
[Symbol]	BALANCING DAMPER	[Symbol]	SPLITTER DAMPER
[Symbol]	COMBINATION SMOKE AND FIRE DAMPER	[Symbol]	REMOTE OPERATED BALANCING DAMPER
[Symbol]	VOLUME EXTRACTOR		

V.A.V. AND F.P.V.A.V. TAG	MIN. FLOW (L/S)	MAX. FLOW (L/S)
[Symbol]	8	1200

MIN. PRIMARY FLOW	MAX. PRIMARY FLOW (L/S)	SECONDARY FLOW (L/S)	REHEAT COOL CAPACITY (KW)
[Symbol]	100/100	100/100	100/100

HEATING ELEMENT TAG	HEATING CAPACITY	ACTIVE ELEMENT LENGTH	ENCLOSURE TYPE
[Symbol]	100/100	100/100	100/100

DUCT COOL	RADIATION HEATING RISER NUMBERS (S-SUPPLY AND R-RETURN)
[Symbol]	[Symbol]

DRAWING NUMBER	DRAWING TITLE
M-000	MECHANICAL DRAWING LIST LEGENDS AND STANDARD DETAILS
M-301	BAS CONTROL SCHEMATICS
M-302	5TH FLOOR H.V.A.C. DEMOLITION LAYOUT
M-303	5TH FLOOR NEW H.V.A.C. LAYOUT
M-304	5TH FLOOR FIRE HOSE CABINET COVERAGE LAYOUT

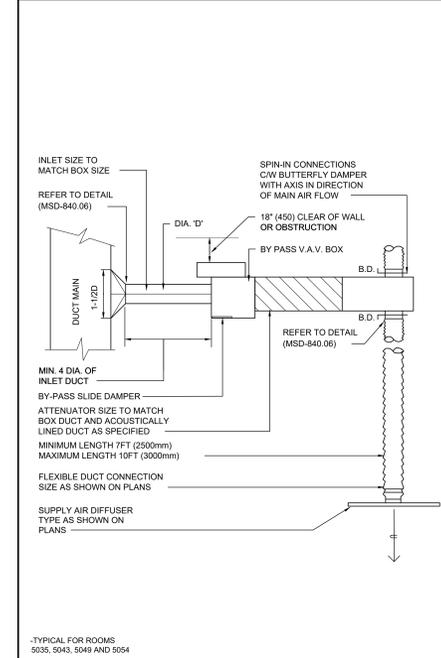
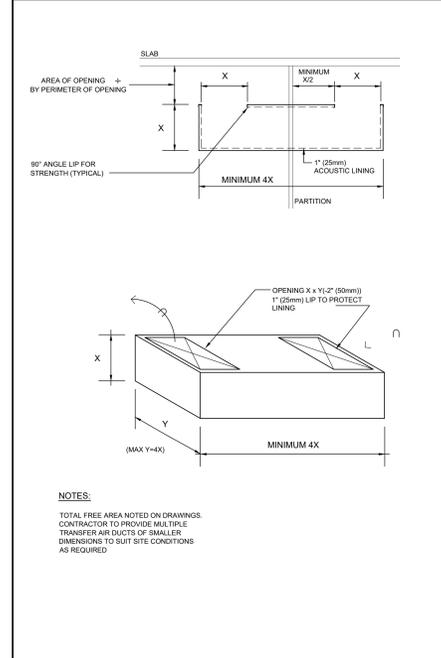
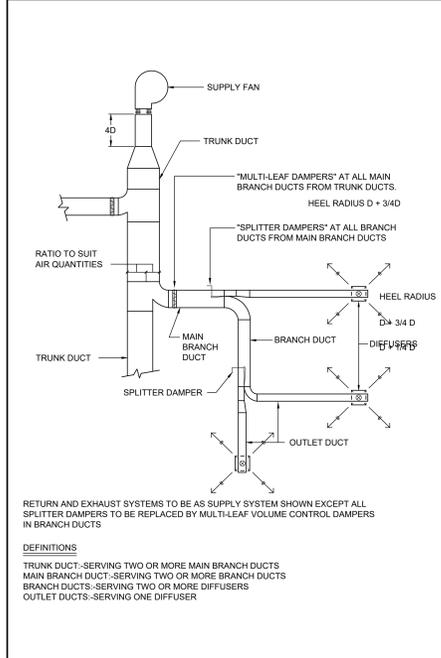
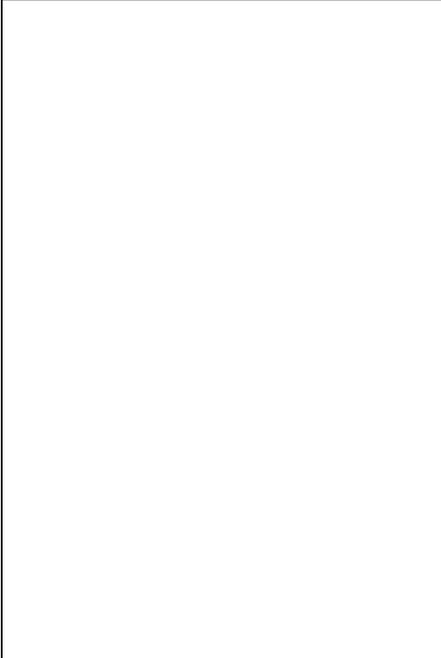
13 M-000 NOT USED

10 M-000 ACOUSTICALLY LINED TRANSFER AIR PLENUM

7 M-000 ACOUSTICALLY LINED TRANSFER AIR ELBOW DUCT DETAIL

4 M-000 AIR HANDLING SYMBOLS (MSD-012.09)

1 M-000 MECHANICAL DRAWING LIST



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	DETAIL NUMBER	[Symbol]	SECTION NUMBER
[Symbol]	DRAWING NUMBER	[Symbol]	DRAWING NUMBER
[Symbol]	REVISION NUMBER	[Symbol]	REVISION BUBBLE
[Symbol]	ELBOWS	[Symbol]	PIPING SERVICE CONTINUES
[Symbol]	TEE	[Symbol]	REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED
[Symbol]	BRANCH OFF BOTTOM OF MAIN	[Symbol]	VENT PIPE REDUCER
[Symbol]	BRANCH OFF TOP OF MAIN	[Symbol]	AIR QUANTITY C.F.M. (L/S)
[Symbol]	DIRECTION OF FLOW	[Symbol]	MARKING OF EXISTING EQUIPMENT

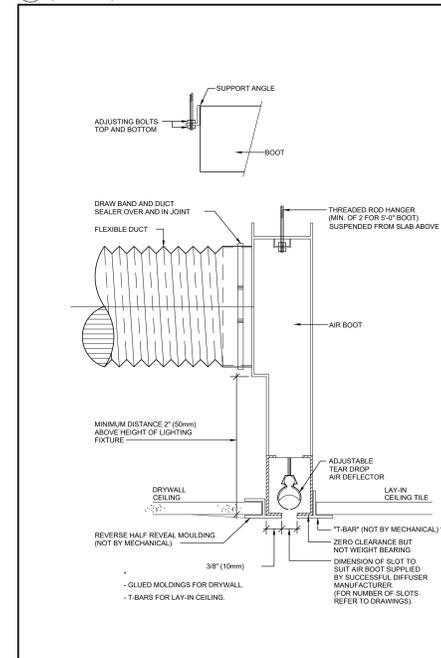
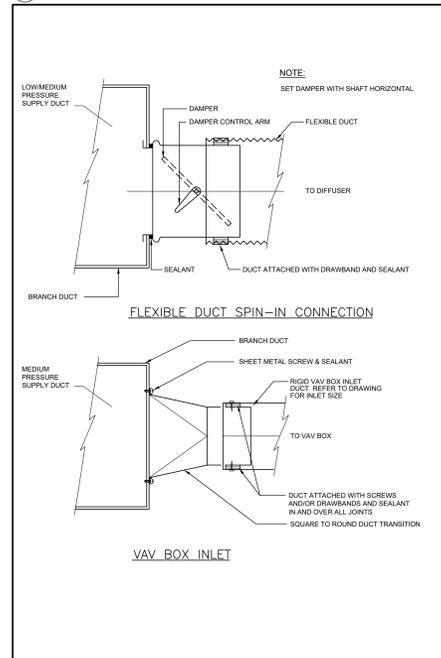
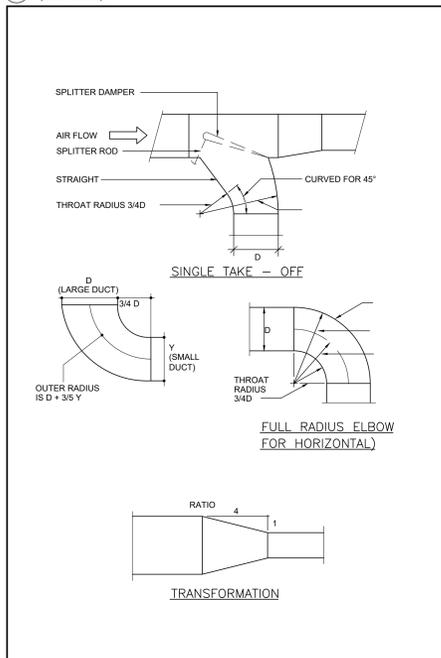
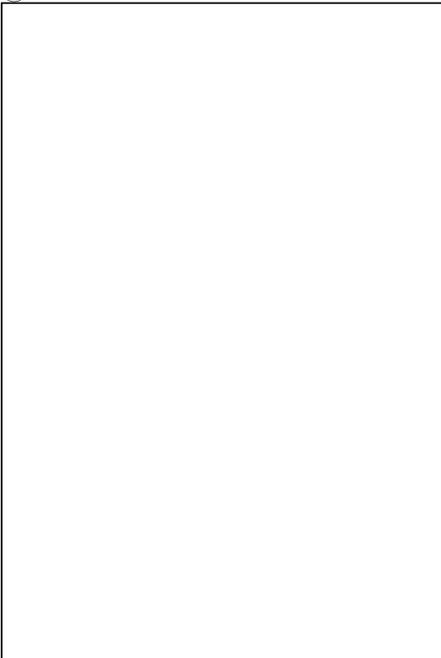
14 M-000 NOT USED

11 M-000 BALANCING DAMPERS (MSD-840.03)

8 M-000 ACOUSTICALLY LINED TRANSFER DUCT (MSD-840.12)

5 M-000 TYPICAL BY PASS V.A.V. BOX INSTALLATION (MSD-840.04)

3 M-000 GENERAL SYMBOLS AND ABBREVIATIONS (MSD-012.13)



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	SUPPLY DUCT UP OR FROM ABOVE	[Symbol]	ACOUSTICALLY LINED TRANSFER AIR DUCT
[Symbol]	SUPPLY DUCT DOWN OR FROM BELOW	[Symbol]	SLENER
[Symbol]	RETURN OR EXHAUST DUCT UP OR FROM ABOVE	[Symbol]	CROSS-TALK SILENCER
[Symbol]	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW	[Symbol]	DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
[Symbol]	ROUND DUCT UP OR FROM ABOVE	[Symbol]	DUCT WITH SLEEVE, INSULATION AND DAMPER
[Symbol]	ROUND DUCT DOWN OR FROM BELOW	[Symbol]	CAPPED CONNECTION
[Symbol]	ACUSTIC LINED DUCT	[Symbol]	RISE IN DUCT
[Symbol]	FLEXIBLE CONNECTION	[Symbol]	SLOPE DOWN
[Symbol]	SQUARE ELBOW DUCT WITH TURNING VANE	[Symbol]	DROP IN DUCT
[Symbol]	RADIUS ELBOW WITH TURNING VANES	[Symbol]	SOUND BARRIER
[Symbol]	AXIAL FAN/INLINE FAN MIXER FLOW OR CENTRIFUGAL	[Symbol]	PROPELLER FAN WITH PROTECTIVE SCREEN
[Symbol]	DIFFUSER GRILLE OR REGISTER TYPE	[Symbol]	CENTRIFUGAL FAN (ONLY IN SCHEMATICS)
[Symbol]	ROUND SUPPLY DIFFUSER	[Symbol]	LINEAR SLOT DIFFUSER
[Symbol]	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE	[Symbol]	LINEAR SUPPLY AIR DIFFUSER CW FLEXIBLE DUCT
[Symbol]	SQUARE OR RECTANGULAR DIFFUSER ABOVE HEIGHT OF LIGHTING FIXTURE	[Symbol]	LIGHT TROFFER DIFFUSER TOP INLET CW FLEXIBLE DUCT
[Symbol]	NON DUCTED RETURN OR EXHAUST	[Symbol]	LIGHT TROFFER DIFFUSER SIDE INLET CW FLEXIBLE DUCT
[Symbol]	NON DUCTED ROUND RETURN OR EXHAUST GRILLE	[Symbol]	DUCT MOUNTED SUPPLY OR RETURN GRILLE
[Symbol]	SQUARE PLAUQUE DIFFUSER	[Symbol]	LINEAR SUPPLY OR RETURN GRILLE
[Symbol]	DIFFUSERS WITH BLANK-OFF PORTION (CITY BROWN)	[Symbol]	SPIN-IN CONNECTION CW BALANCING DAMPER AND FLEX DUCT
[Symbol]		[Symbol]	SPIN-IN CONNECTION CW BALANCING DAMPER AND RIGID DUCT

16 M-000 NOT USED

12 M-000 DUCT DETAILS (MSD-840.05)

9 M-000 FLEXIBLE DUCT CONNECTIONS (MSD-840.06)

15 M-000 SUPPLY AIR BOOT IN LAY-IN CEILING OR DRYWALL CEILING (MSD-870.01)

17 M-000 AIR HANDLING SYMBOLS (MSD-012.10)

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3.	23.11.17	ISSUED FOR DD COSTING
2.	23.10.24	ISSUED FOR 100% DD
1.	23.08.30	ISSUED FOR DRAFT SD REVIEW

PROJECT CONTACT

NAME: SCOTT GOULD
 TEL: 416-218-7019
 EMAIL: scott.gould@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Smith + Andersen

1100 - 100 Progress Ave. 2nd. Floor, Toronto, ON, M6H 4B9
 416 487 8151 • 416 487 8108 smithandandersen.com

No. Date Issue/Revision

Robarts 5th Floor MDL Renovation

Title: **MECHANICAL DRAWING LIST, LEGENDS AND STANDARD DETAILS**

Project No. 08086 009 MEAVD | Scale AS NOTED

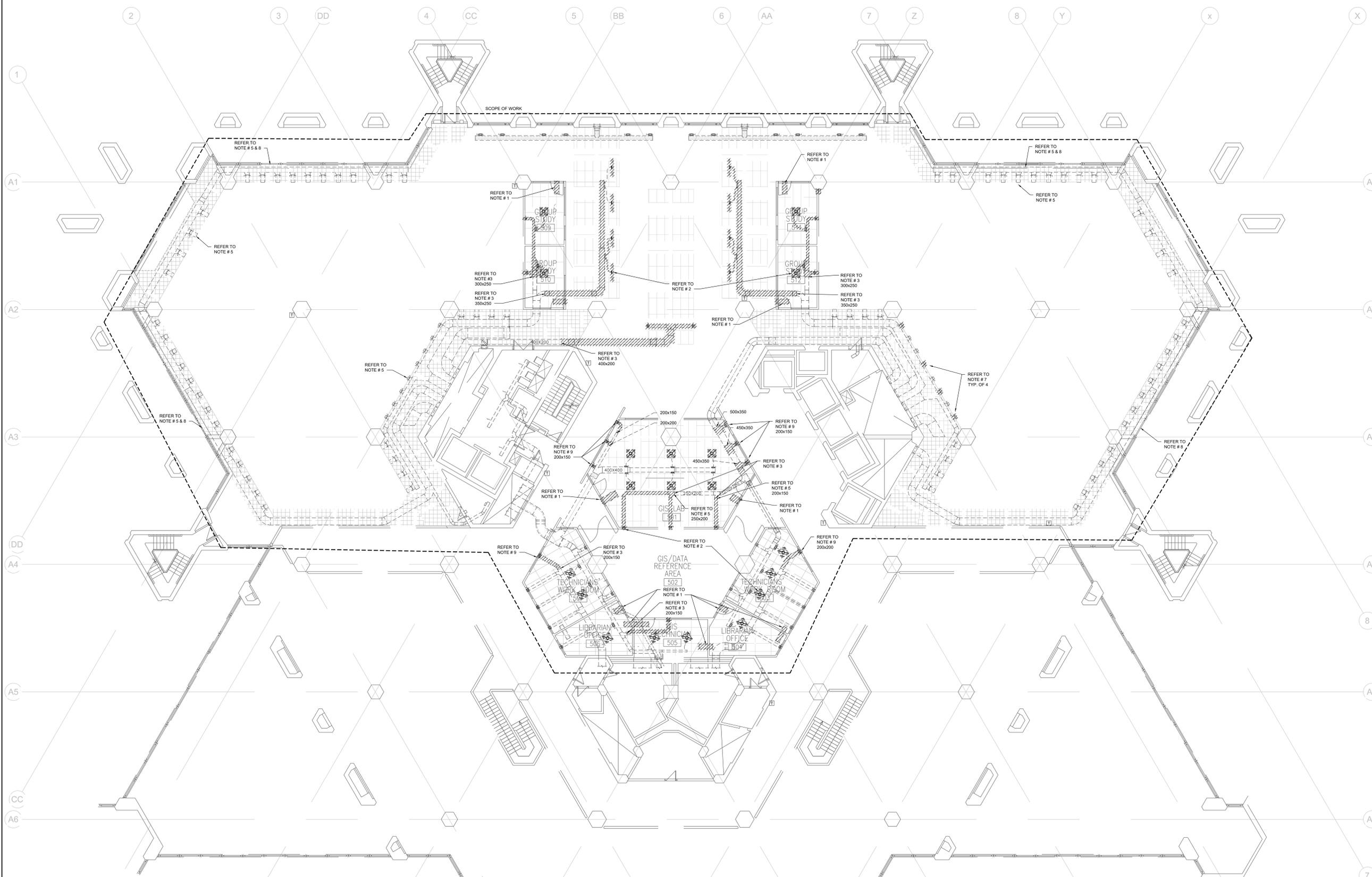
Drawing No. **M-000**

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 416 487 8151 / 416 487 8104 smithandandersen.com

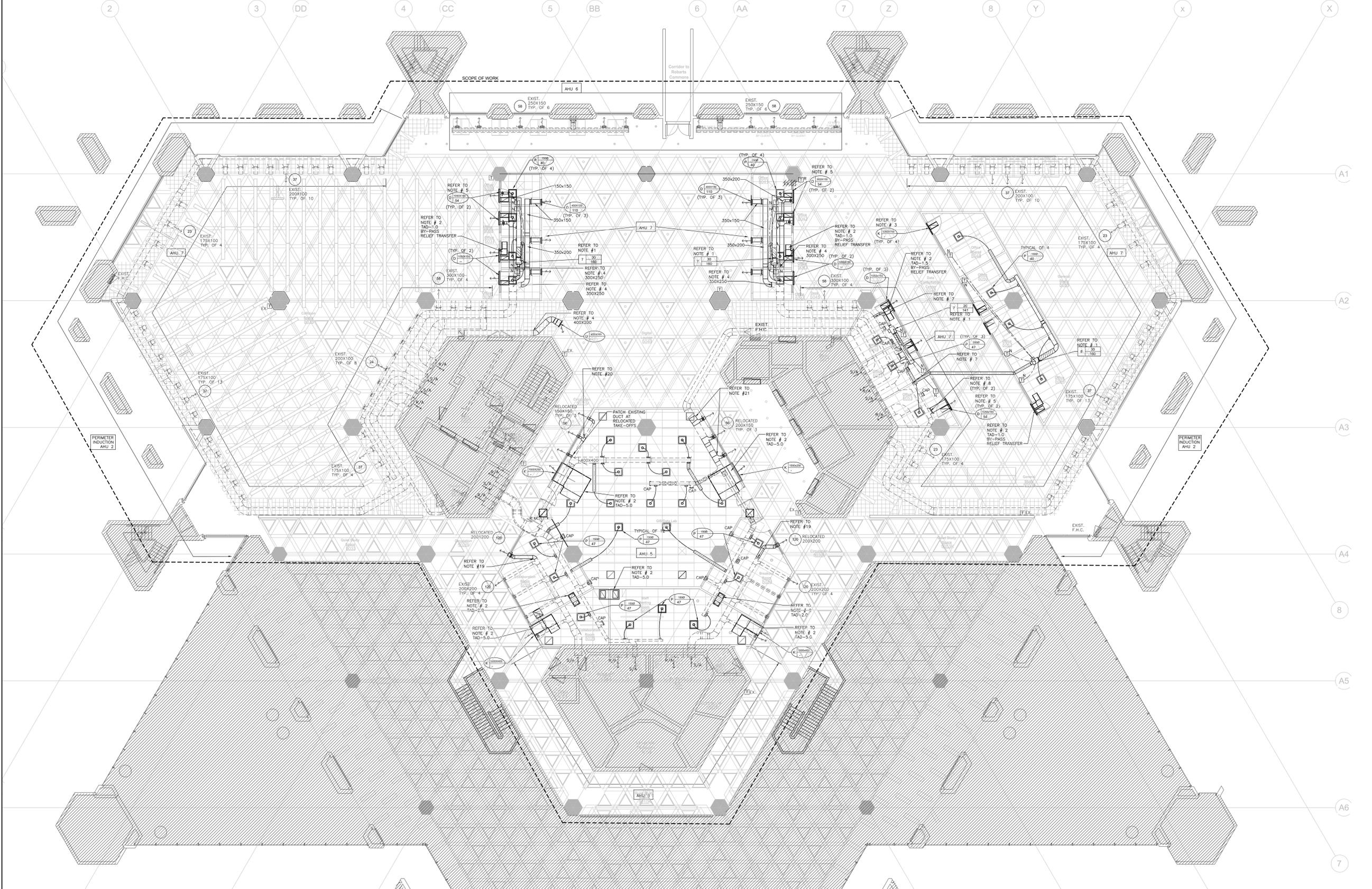
- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND REVISIONS BASED ON THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 - READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATICS AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
 - REFER TO STANDARD DETAIL SHEETS AND STANDARD DETAILS FOR ADDITIONAL INFORMATION.
- DRAWING NOTES:**
- REMOVE EXISTING ACoustically LINED TRANSFER AIR DUCTS IN APPROXIMATE LOCATIONS SHOWN. CONTRACTOR TO ALLOW FOR AND ADDITION THREE (3) TRANSFER DUCT NOT SHOWN ON DRAWINGS. (TYPICAL).
 - REMOVE EXISTING DIFFUSERS AS INDICATED. REMOVE ALL EXISTING FLEXIBLE OR ROUND RIGID DUCTWORK WHERE DIFFUSERS ARE EITHER REMOVED OR RELOCATED. PROVIDE AND INSTALL NEW FLEXIBLE DUCTS TO RELOCATED DIFFUSERS. (TYPICAL).
 - DISCONNECT EXISTING DUCTWORK AND REMOVE COMPLETE WITH ALL ASSOCIATED HANGERS AND SUPPORTS. REMOVE DUCTWORK FROM SITE. SIZE OF EXISTING DUCTWORK SHALL BE AS INDICATED ON THE DRAWING. ENSURE EXISTING TO REMAIN DUCTWORK IS SECURED IN PLACE. PROVIDE NEW HANGERS AS REQUIRED. (TYPICAL).
 - CONTRACTOR TO MODIFY EXISTING DUCTWORK AND WALL GRILLES. EXISTING WALL GRILLES LOCATIONS ALIGN WITH CENTER LINE OF NEW GLAZING PANELS AND WALL SECTIONS. REFER TO DRAWING M-302 FOR APPROXIMATE LOCATIONS.
 - PRIOR TO CONSTRUCTION, AIR BALANCING CONTRACTOR SHALL RECORD AIR FLOW VALUES SUPPLIED BY ALL ASSOCIATED DIFFUSERS.
 - CAP (PATCH) EXISTING DUCT AND SEAL AIR TIGHT.
 - REMOVE EXISTING SUPPLY AIR TAKE OFF, DUCT AND GRILLE. PATCH AND SEAL DUCTWORK AS REQUIRED. REFER TO DRAWING M-302 FOR NEW DUCTWORK REQUIREMENTS.
 - EXISTING PERIMETER INDUCTION UNITS TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION PRIOR TO CONSTRUCTION RECORD THE POSITION OF THE PRIMARY AIR DAMPER AND CLOSE ALL DAMPER IN AREA OF CONSTRUCTION. COVER UNIT COILS WITH FILTER MEDIA TO PROTECT FROM DUST AND DEBRIS AND RECOVER ALL UNITS WITH PLASTIC SHEETING. TIGHTLY FIT AND TAPE TO PROTECT AGAINST THE INTRUSION OF DUST.
 - EXISTING DUCTWORK AND GRILLES TO BE RELOCATED. REFER TO DRAWING M-302 FOR NEW GRILLE LOCATIONS. REUSE OR PROVIDE NEW DUCTWORK AS REQUIRED.

Robarts 5th Floor MDL Renovation

Title:
5TH FLOOR H.V.A.C. DEMOLITION LAYOUT

Project No. 08086.009 MEAVD | Scale 1:100

Drawing No.
M-301



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PROJECT CONTACT	
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TEL:	416-218-7019
EMAIL:	scott.gould@smithandandersen.com

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 416-467-8151 • 416-467-8104 smithandandersen.com

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 - READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATICS AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
 - REFER TO STANDARD DETAIL SHEETS AND STANDARD DETAILS FOR ADDITIONAL INFORMATION.
- DRAWING NOTES:**
- NEW BY-PASS VAV BOX COMPLETE WITH HANGERS, SUPPORTS, RIGID DUCT, FLEXIBLE DUCT, DIFFUSERS, CONDUITS, CONTROLS, TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION. REFER TO DRAWING FOR INLET SIZE.
 - PROVIDE ACoustically LINED TRANSFER AIR DUCT IN LOCATION SHOWN. DUCT TO MATCH GRILLE SIZE UNLESS NOTED OTHERWISE OR FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS. REFER TO STANDARD DETAILS/M-000. (TYPICAL)
 - TAD-0.5 PROVIDE A TOTAL OF 0.05 SQM (0.5 SQ FT)
 - TAD-1.0 PROVIDE A TOTAL OF 0.1 SQM (1.0 SQ FT)
 - TAD-1.5 PROVIDE A TOTAL OF 0.14 SQM (1.5 SQ FT)
 - TAD-2.0 PROVIDE A TOTAL OF 0.19 SQM (2.0 SQ FT)
 - TAD-5.0 PROVIDE A TOTAL OF 0.46 SQM (5.0 SQ FT)
 - PROVIDE 600X300X400 HIGH ACoustically LINED TRANSFER AIR PLENUM OVER +/- 600X300 (LENGTH OF GRILLE TO SUITE AVAILABLE SPACE BETWEEN T-BARS). RETURN AIR GRILLE AT CEILING AND PROVIDE 600X150 ACoustically DUCT TO WALL GRILLE AS INDICATED. (TYPICAL)
 - CONNECT NEW DUCT TO EXISTING DUCT OF EQUAL SIZE AND EXTEND AS INDICATED. REFER TO DRAWING EXISTING NEW DUCT SIZES. (TYPICAL)
 - CONNECT NEW SUPPLY AIR DUCT AND TRANSFER/RETURN AIR DUCT TO COMMON GRILLE AS INDICATED. DUCT SIZES SHALL BE AS NOTED. AIR QUANTITY NOTED TO BE TOTAL FOR ACTIVE SECTION OF GRILLE ONLY AND SHALL NOT BE MEASURED ACROSS ENTIRE FACE OF GRILLE. (TYPICAL)
 - COORDINATE WALL GRILLES SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS. UNCOORDINATED INSTALLATIONS WILL NEED TO BE ALTERED TO SUITE ARCHITECTURAL. AT NO ADDITIONAL COST. ALL GRILLES TO BE WHITE FINISH UNLESS NOTED OTHERWISE. PROVIDE MATT BLACK BLANK OFF PLATES OF DIFFUSER FOR NON-ACTIVE SECTIONS OF GRILLES.
 - CONNECT NEW 200X BY-PASS VAV BOX INLET DUCT TO EXISTING SUPPLY AIR DUCT IN CEILING AND EXTEND TO NEW WALL GRILLE.
 - CONNECT NEW 400X150 SUPPLY AIR DUCT TO EXISTING SUPPLY AIR DUCT IN CEILING AND EXTEND TO NEW WALL GRILLE.
 - PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. FAN COILS, HEAT PUMPS, V.A.V. BOXES AND FAN POWERED BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLET SIZES ARE 600 SIZES, INCREASE THE DUCT SIZE UP TO THE NEAREST EVEN SIZE (I.E. PROVIDE 350X350 FOR 318X318 OR 330X330 OUTLET). PROVIDE TRANSITION DUCTS AS REQUIRED.
 - PROVIDE DIFFUSER DUCT RUN-OUT THE SAME SIZE AS THE DIFFUSER INLET UNLESS INDICATED OTHERWISE.
 - PROVIDE 600X300 RETURN AIR GRILLES UNLESS NOTED OTHERWISE.
 - REMOVE AND RELOCATE EXISTING DIFFUSERS AS INDICATED. REMOVE ALL EXISTING FLEXIBLE DUCTWORK WHERE DIFFUSERS ARE EITHER REMOVED OR RELOCATED. PROVIDE AND INSTALL NEW FLEXIBLE DUCTS TO RELOCATED DIFFUSERS.
 - TEMPERATURE SENSORS ARE LOCATED TO AID IN ZONING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN 100MM OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH THE CONSULTANT.
 - INSTALL TEMPERATURE SENSORS AT NOMINALLY 1200mm A.F.F. ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
 - BALANCE THE AIR FLOW RATES EQUALLY BETWEEN ALL INTERIOR DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE SHOWN FOR THE ASSOCIATED BY-PASS VAV BOX. (TYPICAL)
 - CLEAN PERIMETER INDUCTION UNITS AT THE COMPLETION OF CONSTRUCTION. CLEANING INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
 - REMOVE THE COVERS.
 - VACUUM AND WIRE CLEAN ASSOCIATED COILS AND LINT SCREENS AS REQUIRED.
 - CLEAN SUPPLY AIR NOZZLES WITH HIGH PRESSURE AIR AND STEAM.
 - SET PRIMARY AIR VALVE BACK TO ORIGINAL LOCATION AND VERIFY AIR BALANCE.
 - WASH INDUCTION UNIT COVERS AND INSTALL IN ORIGINAL LOCATION.
 - INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT/TEMPERATURE SENSORS FOR PERIMETER INDUCTION UNITS. PROVIDE A WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
 - REFER TO DRAWING FOR ASSOCIATED AHU'S (AIR HANDLING UNITS) SERVING THE 5TH FLOOR:
 - AHU-2 PERIMETER INDUCTION UNITS
 - AHU-3 INTERIOR SOUTH CORE OPEN AREA BALCONY
 - AHU-5 INTERIOR CENTER GIS/DATA LAB
 - AHU-6 INTERIOR/PERIMETER ALONG LINK TO ROBART'S COMMONS
 - AHU-7 INTERIOR, MAJORITY OF OPEN AREAS, NEW OFFICES AND COLLAB'S 507 AND 509
 - MODIFY EXISTING 200X200 DUCTWORK AS REQUIRED TO CENTER 200X200 DIFFUSERS IN DRYWALL BULKHEAD ABOVE GLAZING PANELS.
 - MODIFY EXISTING 200X150 DUCTWORK AS REQUIRED TO CENTER 150X150 DIFFUSERS IN DRYWALL BULKHEAD ABOVE GLAZING PANELS AS SHOWN.
 - MODIFY EXISTING 500X350 DUCTWORK AS REQUIRED TO CENTER 200X150 DIFFUSERS IN DRYWALL BULKHEAD ABOVE GLAZING PANELS AS SHOWN.

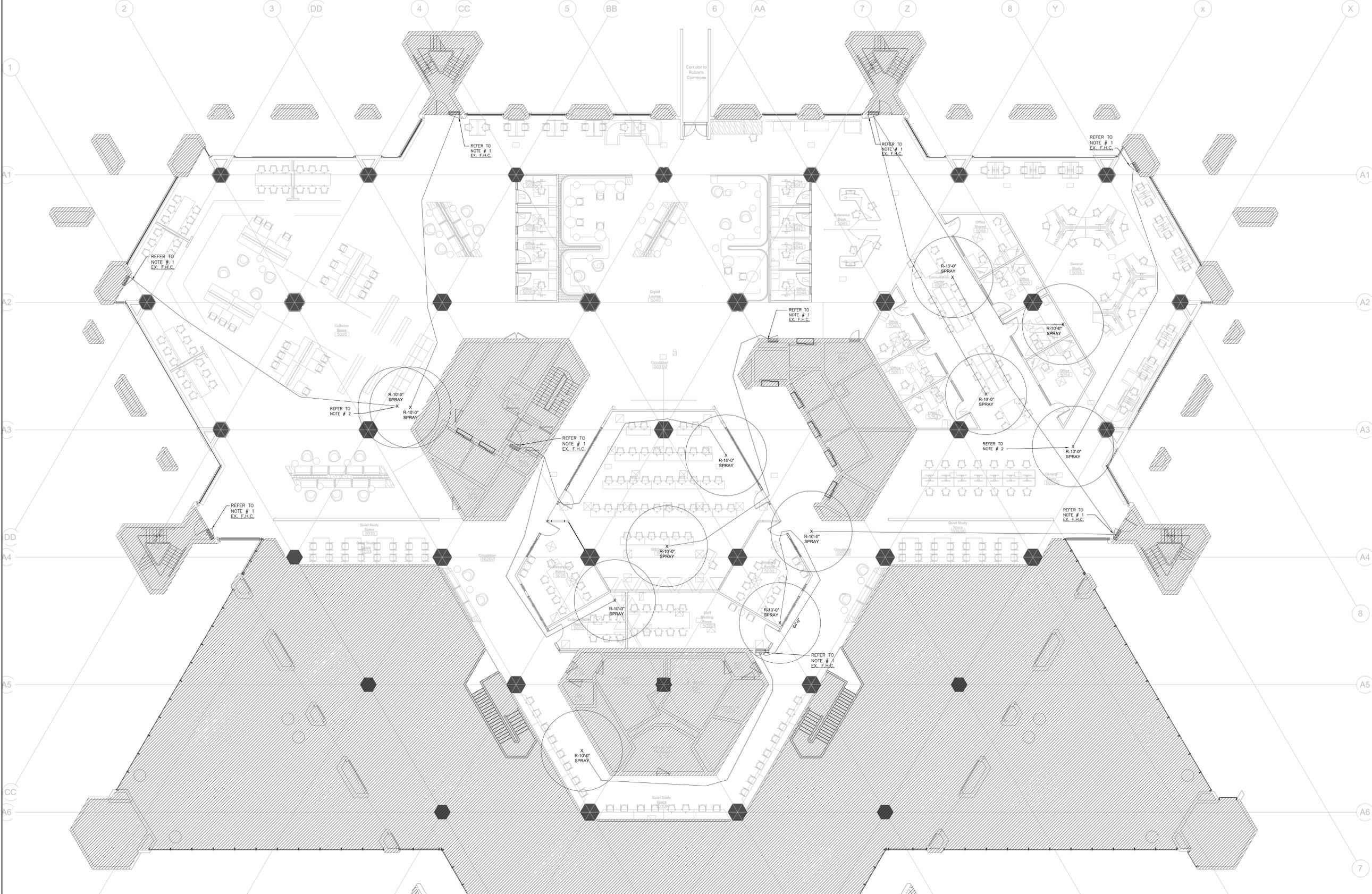
Robarts 5th Floor MDL Renovation

Title: **5TH FLOOR NEW H.V.A.C. LAYOUT**

Project No. 08086 009 MEAVD | Scale AS NOTED

Drawing No.

M-302



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No.	Date	Issue/Revision

Robarts 5th Floor MDL Renovation

Title:
5TH FLOOR FIRE HOSE CABINET COVERAGE

Project No. 08086.000 MEAVD | Scale 1:100

Drawing No.

M-302

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATICS AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

DRAWING NOTES:

- EXISTING FIRE HOSE CABINET (F.H.C.) COMPLETE WITH 25'-0" (23M) HOSE TO REMAIN (TYPICAL)
- R-10'-0" - DENOTES THE ALLOWABLE 10'-0" (3M) SPRAY AT THE END OF THE FIRE HOSE. (TYPICAL)