

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CAP		TRANSFER GRILLE OR LOUVER
	WELL		GRILLE REFERENCE (SEE GRILLE AND DIFF. SCHED. FOR MODEL AND SIZE)
	FLOW SWITCH		AIR CAPACITY [CFM]
	TEMPERATURE GAUGE		WALL BOX OR LOUVRE REFERENCE (SEE GRILLE AND DIFF. SCHED. FOR MODEL AND SIZE)
	PRESSURE GAUGE		DRAWING NOTES
	THERMOSTAT		AIR BALANCE QUANTITY DESIGNATION
	HUMIDISTAT		SQUARE CONE DIFFUSER (ROUND IF SHOWN)
	SENSOR		DUCT COLLAR CONNECTION SIZE AS PER GRILLE AND DIFFUSER SCHEDULE
	DOWN		FLEXIBLE DUCT - MAX. 6'-0" (1.8M)
	UP		DIFFUSER SUPPLY DUCT - TO BE THE SAME SIZE AS DIFFUSER COLLAR
	NEW DUCTWORK - SINGLE LINE		BALANCE DAMPER - TYPICAL AT ALL DIFFUSER SUPPLIES
	DUCTWORK TO BE REMOVED - SINGLE LINE		SUPPLY DUCT SECTION UP
	FLEX DUCT		SUPPLY DUCT SECTION DOWN
	NEW DUCTWORK - DOUBLE LINE		RETURN DUCT SECTION UP
	EXTERNALLY INSULATED DUCTWORK		RETURN DUCT SECTION DOWN
	INTERNALLY INSULATED DUCTWORK		EXHAUST DUCT SECTION UP
	FIRE DAMPER		EXHAUST DUCT SECTION DOWN
	MOTORIZED DAMPER		
	BALANCING DAMPER		
	BACK DRAFT DAMPER		
	SPLITTER DAMPER		
	STANDARD SUPPLY & RETURN BRANCH		
	WYE JUNCTION		
	TURNING VANES (RECTANGULAR)		
	TURNING VANES, SMOOTH RADIUS		

- NOTES:
- THIS IS A STANDARD LEGEND. ALL TAGS MAY NOT NECESSARILY BE USED ON DRAWINGS.
 - SEE SPECIFICATION FOR FURTHER INFORMATION ON VALVES.

GENERAL NOTES

- MECH. EQUIPMENT DIVISION OF RESPONSIBILITY: UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS, MECHANICAL EQUIPMENT CONTROLS (THERMOSTATS, CONTROL PANELS, STARTERS, ETC.) AND LOW VOLTAGE WIRING AND CONDUIT ARE TO BE PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT BEING CONTROLLED. CONTROL WIRING IS TO BE 24 VOLT WHERE PRACTICAL UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS. ALL WIRING, CONDUITS AND DISCONNECTING MEANS 120 VOLT AND GREATER ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. REVIEW REQUIREMENTS WITH LATEST SHOP DRAWINGS AND PERTINENT TRADES PRIOR TO ORDERING EQUIPMENT.
- ALL EQUIPMENT, VALVES, BALANCING DAMPERS AND MAINTENANCE ITEMS LOCATED IN BULKHEADS, CEILINGS OR INACCESSIBLE SPACES SHALL BE PROVIDED WITH THE APPROPRIATELY RATED / INSULATED ACCESS PANELS. ACCESS PANELS TO BE PROVIDED BY CONTRACTOR INSTALLING THE COMPONENTS REQUIRING ACCESS.
- CONTRACTOR TO REVIEW ARCHITECTURAL REFLECTIVE CEILING PLANS FOR CEILING TYPES AND HEIGHTS ON ALL FLOOR PLANS.

MECHANICAL DRAWING LIST

- | | |
|------|--------------------------------------|
| MO.1 | GENERAL NOTES, LEGEND & DRAWING LIST |
| MO.2 | SCHEDULES & DETAILS |
| M1.1 | BASEMENT FLOOR PLAN |
| M1.2 | MAIN FLOOR PLAN |
| M1.3 | SECOND FLOOR PLAN |
| M1.4 | SPECIFICATIONS |

GENERAL NOTES

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL ERRORS AND / OR OMISSIONS TO STRIK BALDINELLI MONIZ LTD. ALL CONTRACTORS MUST COMPLY WITH ALL PERTINENT BUILDING CODE REGULATIONS AND BYLAWS HAVING JURISDICTION. THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNTIL IT HAS BEEN SIGNED BY STRIK BALDINELLI MONIZ LTD. AND A BUILDING PERMIT HAS BEEN ISSUED. CONSTRUCTION TO BE ACCORDING TO BEST COMMON PRACTICE. DO NOT SCALE DRAWINGS. WHEN REQUIRED REQUEST WRITTEN VERIFICATION OF DIMENSIONS WITH STRIK BALDINELLI MONIZ LTD. ALL DRAWINGS, & SPECIFICATIONS ARE THE PROPERTY OF STRIK BALDINELLI MONIZ LTD. & MUST BE RETURNED UPON COMPLETION OF THIS PROJECT. THIS DRAWING & ALL DETAILS ARE FOR THIS PROJECT ONLY AND SHOULD NOT BE USED FOR ANY OTHER WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR MATTERS AFFECTING CONSTRUCTION. ANY MATERIAL ALTERATIONS CARRIED OUT DURING CONSTRUCTION BY THE CONTRACTOR OR ASSOCIATED SUB-CONTRACTOR SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO INSTALL. FAILURE TO DO SO RESULTS IN FULL CONTRACTOR RESPONSIBILITY FOR SYSTEMS EFFECTED.

DETAIL SYMBOL



A - DETAIL NUMBER
B - LOCATION/DETAIL SHEET

ELEVATION SYMBOL



A - ELEVATION NUMBER
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01	NOV 12/20	ISSUED FOR PERMIT
02	NOV 24/20	ISSUED FOR PERMIT
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STRIK BALDINELLI MONIZ
CIVIL + STRUCTURAL + MECHANICAL + ELECTRICAL
1599 Adelaide St. N, Unit 301, London, Ontario, N5X 4E8
Tel: (519) 471-6667 Fax: (519) 471-0034
Email: sbm@sbmltd.ca

PROJECT
HILL FARMHOUSE

CLIENT
JASON HILL

DRAWING TITLE
GENERAL NOTES, LEGEND & DWG LIST -MECHANICAL

PROJ. NO.	SBM-20-1890	DRAWING NO.	MO.1
SCALE	N.T.S.		
DATE	JULY 2020		
DRAWN	JM		
DESIGNED	JM		
CHECKED	KCM	REVISION NO.	02

GRILLE & DIFFUSER SCHEDULE

DRAWING REFERENCE	MANUFACTURER	MODEL	SIZE	AIR RANGE [CFM]	REMARKS
SG-1 CFM	IMPERIAL	RG0128	10"x3"	0-125	C/W DAMPER.
EG-1 CFM	IMPERIAL	RG0128	10"x3"	0-100	C/W DAMPER.
RG-1 CFM	IMPERIAL	RG2296	24"x8"	0-350	C/W DAMPER.

- NOTES:**
- REVIEW RELEVANT SPECIFICATIONS FOR SUPPLEMENTARY EQUIPMENT INFORMATION, PERTINENT ACCESSORIES AND ACCEPTABLE MANUFACTURES.
 - GRILLES AND DIFFUSERS TO BE ALL METAL CONSTRUCTION AND COME C/W WHITE ENAMEL FINISH. CONFIRM WITH ARCHITECT IF AN ALTERNATE COLOUR IS TO BE USED.
 - ALL BRANCH DUCTWORK SERVING DIFFUSERS TO BE THE SAME SIZE AS DIFFUSER NECK UNLESS SPECIFIED OTHERWISE.
 - ALL SIZES ARE NOMINAL, REVIEW MANUFACTURER'S LITERATURE FOR DIMENSIONAL DATA.

WALLBOX & LOUVER SCHEDULE

DRAWING REFERENCE	MANUFACTURER	MODEL NO.	TYPE	SIZE [WxD]	REMARKS
WB-1	REVERSOMATIC	SWBL-8	EXHAUST	8"x8"	SINGLE WALL BOX.
WB-2	REVERSOMATIC	DWBL-8	EXHAUST	16"x8"	DOUBLE WALL BOX.
WB-3	REVERSOMATIC	SWBL	INTAKE	8"x8"	SINGLE WALL BOX.
DV-1	REVERSOMATIC	ECA	EXHAUST	-	DRYER VENT CAP.

- NOTES:**
- REVIEW RELEVANT SPECIFICATIONS FOR SUPPLEMENTARY EQUIPMENT INFORMATION, PERTINENT ACCESSORIES AND ACCEPTABLE MANUFACTURES.
 - WALLBOXES AND LOUVERS ARE TO BE PAINTED TO MATCH THE ADJACENT WALL OR CLADDING. CONFIRM WITH ARCHITECT IF AN ALTERNATE COLOUR IS TO BE USED.
 - ALL SIZES ARE NOMINAL, REVIEW MANUFACTURER'S LITERATURE FOR DIMENSIONAL DATA.

LINT TRAP SCHEDULE

DRAWING REFERENCE	MANUFACTURER	MODEL	INLET (IN)	OUTLET (IN)	REMARKS
LT-1	REVERSOMATIC	LT200-45	4"	5"	-

- NOTES:**
- REVIEW RELEVANT SPECIFICATIONS FOR SUPPLEMENTARY EQUIPMENT INFORMATION, PERTINENT ACCESSORIES AND ACCEPTABLE MANUFACTURER'S.
 - LINT TRAPS MUST BE INSTALLED IN AN ACCESSIBLE LOCATION FOR PROPER CLEANING.
 - LINT TRAPS TO BE RECESSED WHEREVER POSSIBLE.

DUCTED MINI SPLIT SCHEDULE

DRAWING REFERENCE	SERVICE	MANUFACTURER	MODEL	COOLING CAPACITY [MBH]	HEATING CAPACITY [MBH]	AIR FLOW [CFM]	INDOOR UNIT		OUTDOOR UNIT		ELECTRICAL			REMARKS
							TAG	MODEL	TAG	MODEL	V/P/H	MCA	MOCP	
MS-1 CU-1	BASEMENT & GROUND FLOOR	FUJITSU	18RLXFWH	18.0	21.6	540	MS-1	ASU18RLF	CU-1	AOU18RLXFWH	208/1/60	17.0	20	-
MS-2 CU-2	2ND FLOOR	FUJITSU	9RLFCD	9.0	16.9	350	MS-2	ARU9RLF	CU-2	AOU9RLFC	208/1/60	13.4	15	-

- NOTES:**
- REVIEW RELEVANT SPECIFICATIONS FOR SUPPLEMENTARY EQUIPMENT INFORMATION, PERTINENT ACCESSORIES AND ACCEPTABLE MANUFACTURES.
 - REFER TO THE MANUFACTURER'S GUIDELINES FOR REQUIRED TUBING LENGTHS, TUBING SIZES, INSULATION THICKNESS AND ACCESSORIES.
 - ALL UNITS C/W R-410A REFRIGERANT

FAN SCHEDULE

DRAWING REFERENCE	SERVICE	MANUFACTURER	MODEL	TYPE	FLOW [CFM]	ESP [IN.H2O.]	DUCT SIZE	MOTOR			ACCESSORIES	LOCATION	MOUNTING	REMARKS
								HP	V/P/H	RPM				
EF-1	CEILING EXHAUST	PANASONIC	FV-11VH2	CEILING CABINET	110	0.1	4"ø	FHP	120/1/60	778	5,17	SEE DRAWINGS	CEILING	CONTROLLED BY SWITCH UNLESS OTHERWISE NOTED.
BF-1	DRYER BOOSTER FAN	REVERSOMATIC	TLD-200	INLINE	157	0.2	-	FHP	120/1/60	-	1,2,4,5,8	UNIT LAUNDRY	CEILING	CONTROLLED BY AMP SWITCH PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
RH	RANGE HOOD	BROAN	BCS324SSC	-	130	0.2	7"ø	FHP	120/1/60	-	5,8,17	UNIT KITCHENS	CEILING	-

- ACCESSORIES:**
- | | | | |
|--|---|---|--|
| 1. HANGER RODS | 6. INDICATE ROOF CURB TO BE PROVIDED BY GENERAL CONTRACTOR AS DETAILED ON ARCHITECTURAL DWGS. | 11. TRANSFORMER AND RELAY FOR 24V CONTROL | 16. DRAIN CONNECTION |
| 2. HANGING VIBRATION ISOLATORS | 7. ROOF CURB BY FAN MANUFACTURER | 12. WEATHER HOOD | 17. MATCHING EXT. WALL LOUVRE W/ BIRDSCREEN AND B.D.D. |
| 3. BASE ISOLATOR KIT | 8. DISCONNECT SWITCH | 13. WALL MOUNT COLLAR | 18. SOLID STATE SPEED CONTROL (MOUNTED IN FAN HOUSING) BELT DRIVE MOTOR COVERS |
| 4. FLEXIBLE CONNECTIONS - INLET AND OUTLET | 9. BELTS, DRIVES AND PULLEYS | 14. BELT DRIVE MOTOR COVERS | 19. CONTROL PANEL |
| 5. BACKDRAFT DAMPER | 10. ACCESS DOOR | 15. INSULATED HOUSING | |

- NOTES:**
- REVIEW RELEVANT SPECIFICATIONS FOR SUPPLEMENTARY EQUIPMENT INFORMATION, PERTINENT ACCESSORIES AND ACCEPTABLE MANUFACTURES.
 - ALL EXHAUST FANS SHOWN ON THE DRAWINGS ARE PROVIDED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.

HEAT RECOVERY VENTILATION UNIT SCHEDULE

DRAWING REFERENCE	SERVICE	MANUFACTURER	MODEL	ESP [IN.H2O.]		SUPPLY AIR [CFM]	EXHAUST AIR [CFM]	SENSIBLE RECOVERY EFFICIENCY [65 CFM @ 0°C]	ELECTRICAL		REMARKS
				SUPPLY	EXHAUST				V/P/H	AMPS	
ERV-1	HOUSE	PANASONIC	FV-10VEC1	0.4	0.4	100	100	79%	120/1/60	0.7	-

- NOTES:**
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 - CONTROL TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.

GENERAL NOTES

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STRIK BALDINELLI MONIZ
CIVIL • STRUCTURAL • MECHANICAL • ELECTRICAL

REGISTRATION INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.4.1 OF THE BUILDING CODE
COMPANY BORN # 44904

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN, AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE ONTARIO BUILDING CODE TO BE A DESIGNER

QUALIFICATION INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.5.1 OF THE BUILDING CODE
Aashir Strik 20652 BORN
Signature: *Aashir Strik* Dec 18, 2020 DATE

STRIK BALDINELLI MONIZ
CIVIL • STRUCTURAL • MECHANICAL • ELECTRICAL

1599 Adelaide St. N, Unit 301, London, Ontario, N5X 4E8
Tel: (519) 471-6667 Fax: (519) 471-0034
Email: sbm@sbmtd.ca

PROJECT

HILL FARMHOUSE

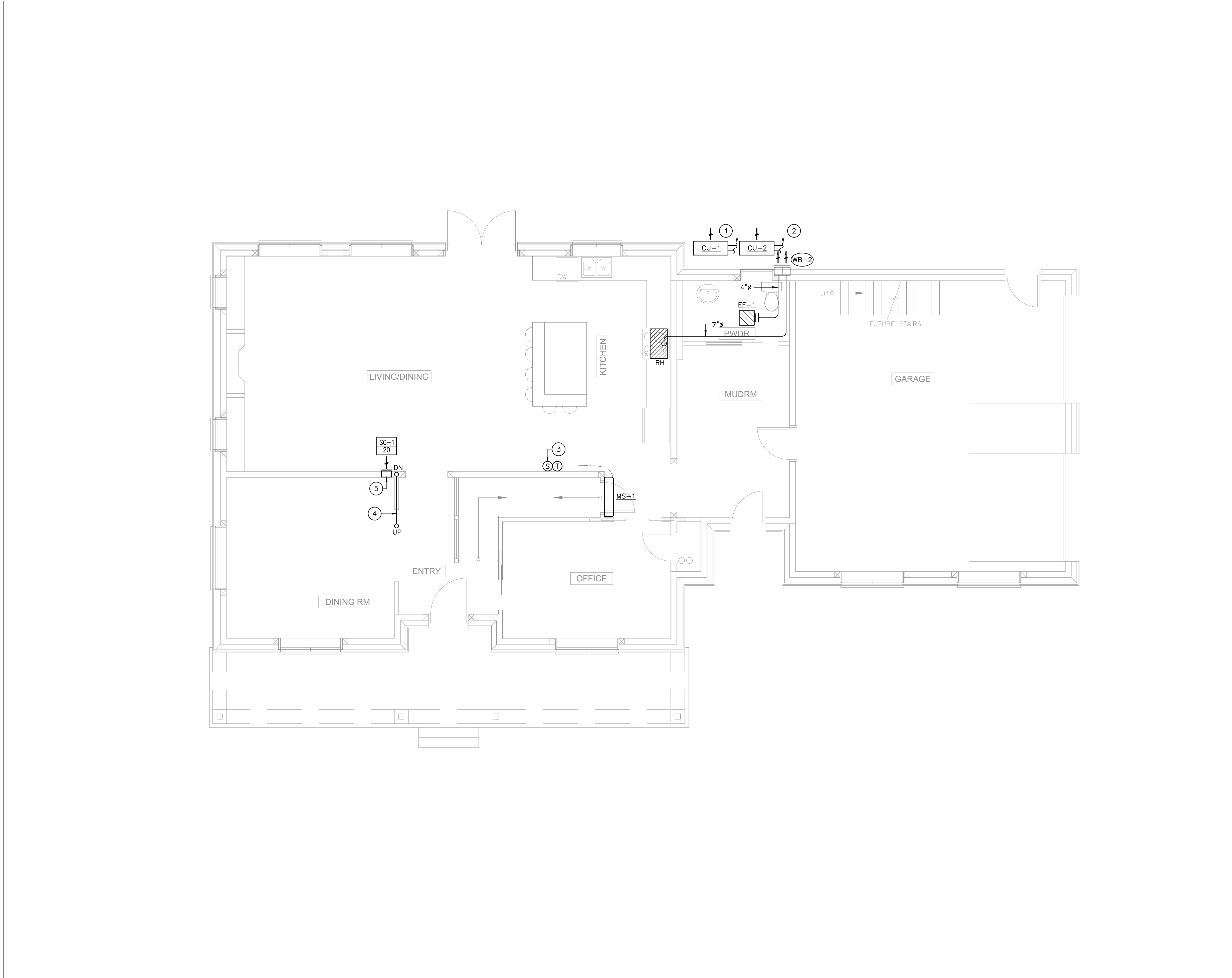
CLIENT

JASON HILL

DRAWING TITLE

SCHEDULES & DETAILS -MECHANICAL

PROJ. NO.	SBM-20-1890	DRAWING NO.	MO.2
SCALE	N.T.S.		
DATE	JULY 2020		
DRAWN	JM		
DESIGNED	JM		
CHECKED	KCM	REVISION NO.	02



MAIN FLOOR PLAN
SCALE= 1/4" = 1'-0"

GENERAL NOTES:

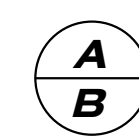
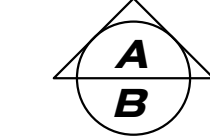
- CONTRACTOR TO REFER TO SPECIFICATIONS FOR DUCT GAUGE REQUIREMENTS.
- ENSURE THAT ALL MANUFACTURERS RECOMMENDED CLEARANCES ARE MET.
- REFER TO OBC FOR OUTDOOR AIR INTAKE MINIMUM SEPARATION DISTANCES TO EXHAUST/RELIEF OUTLETS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL PLANS, REFLECTIVE CEILING PLANS AND STRUCTURAL DRAWINGS.
- FOR DIFFUSER DUCT SIZING AND GRILLE SIZING REFER TO GRILLE AND DIFFUSER SCHEDULE.
- ALL EXTERIOR GRILLES ARE TO BE PAINTED BY THE MANUFACTURER. OBTAIN COLOUR CHIP FROM ARCHITECT.
- ALL PIPING AND DUCTWORK TO BE RUN IN BULKHEAD AND DROP CEILINGS PROVIDED BY OTHERS UNLESS OTHERWISE NOTED.
- CARBON MONOXIDE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE APPLICABLE BUILDING CODE FOR FUEL BURNING APPLIANCE IN RESIDENTIAL OCCUPANCY.
- VENTILATION FAN AND CIRCULATION FAN SWITCH TO BE CENTRALLY LOCATED BESIDE THERMOSTAT.
- UNDERCUT ALL INTERIOR DOORS 1" MINIMUM.

DRAWING NOTES (DENOTED BY):

- CONDENSING UNIT PIPES TO RUN TO MS-1 IN BASEMENT.
- CONDENSING UNIT PIPES TO RUN TO MS-2 ON 2ND FLOOR.
- PRINCIPAL EXHAUST FAN SWITCH, IDENTIFY WITH THE WORDS "VENTILATION FAN".
- DUCT TO BE SIZED AT 7" AS PER OBC 9.32.3.7.A.
- GRILLE TO COME COMPLETE WITH FLOW CONTROL.

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STRIK BALDINELLI MONIZ
sbm
CIVIL • STRUCTURAL • MECHANICAL • ELECTRICAL

REGISTRATION INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.4.1 OF THE BUILDING CODE
COMPANY BCN # 44994

THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE ONTARIO BUILDING CODE TO BE A DESIGNER

QUALIFICATION INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER 2.17.5.1 OF THE BUILDING CODE
NAME: Aaron Strik BCN: 20652
SIGNATURE: *Aaron Strik* DATE: Dec 18, 2020

STRIK BALDINELLI MONIZ
sbm
CIVIL • STRUCTURAL • MECHANICAL • ELECTRICAL

1599 Adelaide St. N, Unit 301, London, Ontario, N5X 4E8
Tel: (519) 471-6667 Fax: (519) 471-0034
Email: sbm@sbmltd.ca

PROJECT
HILL FARMHOUSE

CLIENT
JASON HILL

DRAWING TITLE
MAIN FLOOR PLAN -MECHANICAL

PROJ. NO.	SBM-20-1890	DRAWING NO.
SCALE	1/4" = 1'-0"	M1.2
DATE	JULY 2020	
DRAWN	JM	
DESIGNED	JM	
CHECKED	KCM	

GENERAL NOTES:

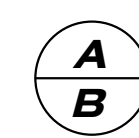
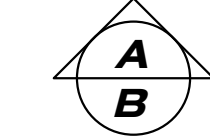
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- VENTILATION FAN AND CIRCULATION FAN SWITCH TO BE CENTRALLY LOCATED BESIDE THERMOSTAT.
- UNDERCUT ALL INTERIOR DOORS 1" MINIMUM.

DRAWING NOTES (DENOTED BY): (A) (B)

- ERV SUPPLY AIR TO CONNECT TO MS-2 RETURN DUCT.
- DUCT TO BE SIZED AT 7" AS PER OBC 9.32.3.7.A.

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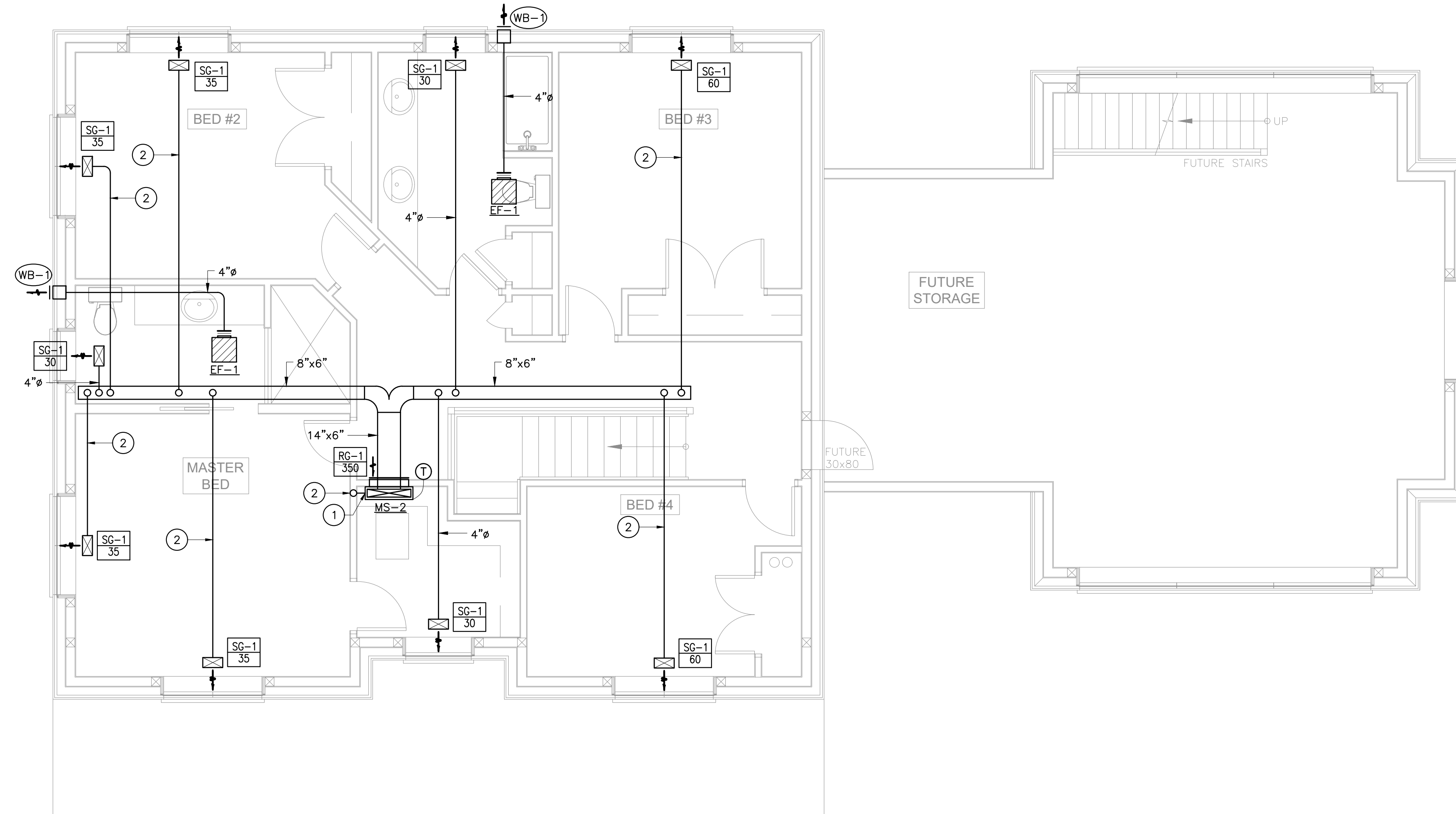
STRIK BALDINELLI MONIZ
 CIVIL • STRUCTURAL • MECHANICAL • ELECTRICAL
 REGISTRATION INFORMATION REQUIRED UNLESS DESIGN IS DONE UNDER 2.11.4.1 OF THE BUILDING CODE
 COMPANY BORN # 44904
 THE UNDERSIGNED HAS REVIEWED AND TAKES RESPONSIBILITY FOR THIS DESIGN, AND HAS THE QUALIFICATIONS AND MEETS THE REQUIREMENTS SET OUT IN THE ONTARIO BUILDING CODE TO BE A DESIGNER
 QUALIFICATION INFORMATION REQUIRED UNLESS DESIGN IS DONE UNDER 2.11.4.1 OF THE BUILDING CODE
 NAME: Aaron Strik BORN: 20652
 SIGNATURE: *Aaron Strik* DATE: Dec 18, 2020
 Email: sbm@sbmltd.ca

PROJECT
HILL FARMHOUSE

CLIENT
JASON HILL

DRAWING TITLE
SECOND FLOOR PLAN -MECHANICAL

PROJ. NO.	SBM-20-1890	DRAWING NO.
SCALE	1/4" = 1'-0"	M1.3
DATE	JULY 2020	
DRAWN	JM	
DESIGNED	JM	
CHECKED	KCM	



SECOND FLOOR PLAN
 SCALE= 1/4" = 1'-0"

GENERAL NOTES

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL ERRORS AND / OR OMISSIONS TO STRIK BALDINELLI MONIZ LTD. ALL CONTRACTORS MUST COMPLY WITH ALL PERTINENT BUILDING CODE REGULATIONS AND BYLAWS HAVING JURISDICTION.

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNTIL IT HAS BEEN SIGNED BY STRIK BALDINELLI MONIZ LTD. AND A BUILDING PERMIT HAS BEEN ISSUED.

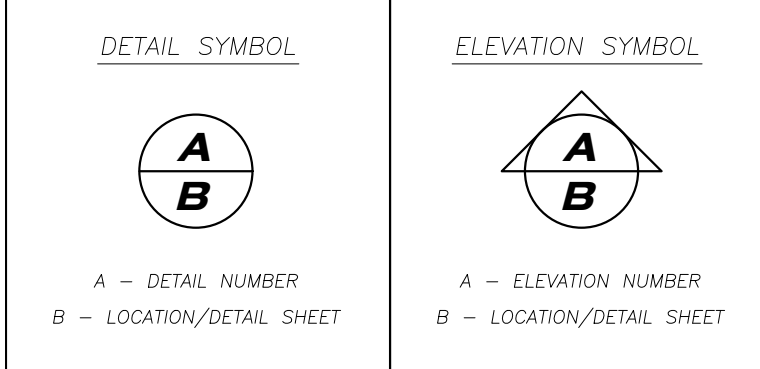
CONSTRUCTION TO BE ACCORDING TO BEST COMMON PRACTICE. DO NOT SCALE DRAWINGS. WHEN REQUIRED REQUEST WRITTEN VERIFICATION OF DIMENSIONS WITH STRIK BALDINELLI MONIZ LTD.

ALL DRAWINGS, & SPECIFICATIONS ARE THE PROPERTY OF STRIK BALDINELLI MONIZ LTD. & MUST BE RETURNED UPON COMPLETION OF THIS PROJECT.

THIS DRAWING & ALL DETAILS ARE FOR THIS PROJECT ONLY AND SHOULD NOT BE USED FOR ANY OTHER WORK.

CONTRACTOR IS FULLY RESPONSIBLE FOR MATTERS AFFECTING CONSTRUCTION.

ANY MATERIAL ALTERATIONS CARRIED OUT DURING CONSTRUCTION BY THE CONTRACTOR OR ASSOCIATED SUB-CONTRACTOR SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO INSTALLATION. FAILURE TO DO SO RESULTS IN FULL CONTRACTOR RESPONSIBILITY FOR SYSTEMS EFFECTED.



NO.	DATE	ISSUED / REVISIONS
01	NOV 12/20	ISSUED FOR PERMIT
02	NOV 24/20	ISSUED FOR PERMIT
03	DEC 15/20	ISSUED FOR PERMIT
04	DEC 18/20	ISSUED FOR PERMIT

HILL FARMHOUSE

JASON HILL

**SPECIFICATIONS
-MECHANICAL**

PROJ. NO.	SBM-20-1890	DRAWING NO.	M1.4
SCALE	1/4" = 1'-0"		
DATE	JULY 2020		
DRAWN	JM		
DESIGNED	JM		
CHECKED	KCM	REVISION NO.	02

- 1. GENERAL**
- A. LABOR, MATERIALS AND FEES**
- PROVIDE ALL LABOR AND NEW MATERIALS FOR THE COMPLETE INSTALLATION OF THE SYSTEMS AS SHOWN ON THE DRAWINGS. ENSURE THAT COMPLETE INSTALLATION MEETS WITH THE APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH ALL CODES, ETC.
 - ARRANGE AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS INSTALLATION.
 - USE MATERIALS THAT ARE C.S.A., U.L.C. APPROVED AND C.G.A. OR ONTARIO HYDRO CERTIFIED FOR THE INTENDED APPLICATION.
- B. EXAMINE THE SITE**
- EXAMINE THE SITE, EXISTING BUILDING, AND THE LOCAL CONDITIONS AFFECTING THE WORK. EXAMINE CAREFULLY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND ALL OTHER DRAWINGS AND THE COMPLETE SPECIFICATIONS TO ENSURE THAT THE WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN. BEFORE COMMENCING WORK, EXAMINE THE WORK OF THE OTHER DIVISIONS AND REPORT AT ONCE ANY DEFECT OR INTERFERENCE AFFECTING THE WORK, THE COMPLETION, OR THE GUARANTEE OF THE WORK OF THIS DIVISION. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSES INCURRED THROUGH THE FAILURE TO MAKE THESE EXAMINATIONS OR TO REPORT ANY SUCH DISCREPANCIES IN WRITING TO THE GENERAL CONTRACTOR. SUBMISSION OF A BID CONFIRMS THAT THE CONTRACT DOCUMENTS AND SITE CONDITIONS ARE ACCEPTED WITHOUT QUALIFICATIONS UNLESS EXCEPTIONS ARE SPECIFICALLY NOTED IN THE BID.
 - TAKE FIELD DIMENSIONS PRIOR TO ANY INSTALLATION.
- C. COMPLIANCE WITH CODES**
- COMPLY WITH ALL LATEST RELEVANT CODES AND LOCAL REGULATIONS HAVING JURISDICTION INCLUDING O.B.C., N.B.C., N.F.P.A., C.G.A., O.W.R.A. 675/85, CSA, CANADIAN PLUMBING CODE, AND AND OESC (CSA C22.1-12)
- D. DEBRIS AND CLEAN-UP**
- KEEP PREMISES CLEAN AS WORK PROGRESSES AND AVOID ACCUMULATION OF DEBRIS ON COMPLETION OF THE WORK, CLEAN-UP AND REMOVE FROM SITE ALL SCRAP MATERIALS RESULTING FROM THE WORK
 - CLEAN ALL EQUIPMENT PRIOR TO FINAL INSPECTION.
- E. CO-ORDINATION AND CO-OPERATION**
- CO-ORDINATE THE WORK WITH ALL TRADES TO ENSURE WORK MAY PROGRESS WITHOUT DELAY. ARRANGE THE SCHEDULE OF ALL WORK IN CO-OPERATION WITH THE GENERAL CONTRACTOR.
 - CO-ORDINATE THE WORK WITH ALL TRADES AND CO-OPERATE TO ENSURE SERVICES DO NOT CONFLICT WITH OTHER SERVICES AND/OR STRUCTURE.
 - DRAWINGS INDICATE GENERAL DESIGN LAYOUT ONLY. THEY ARE TO SOME EXTENT DIAGRAMMATIC. MAKE ALLOWANCES FOR SUCH ITEMS AS OFFSETS TO ACCOMMODATE ACTUAL FIELD CONDITIONS. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR FURTHER BUILDING INFORMATION.
- F. GUARANTEE**
- GUARANTEE ALL WORK, EQUIPMENT AND MATERIALS FOR ONE YEAR FROM SUBSTANTIAL COMPLETION OF THE CONTRACT.
 - ENSURE THAT ALL EQUIPMENT IS PROPERLY GUARANTEED BY THE MANUFACTURER.
- G. CUTTING AND PATCHING**
- PROVIDE CUTTING AND PATCHING FOR THIS WORK.
 - ARRANGE TO PROVIDE MAKING GOOD TO FINISHES AND INCLUDE FOR THE COST OF THIS WORK.
- H. REFRIGERANT PIPING INSTALLATION**
- ALL PIPING IS TO BE INSTALLED WITH ADEQUATE CHANGE OF DIRECTION, EXPANSION JOINTS AND ANCHORS, SO THAT THE PIPING AND EQUIPMENT WILL IN NO WAY BE STRAINED OR DISTORTED BY EXPANSION AND CONTRACTION.
 - PROVIDE WATER/WEATHER PROOF PIPE SLEEVES TO PROTECT ALL PIPING PASSING THROUGH WALLS OR FLOORS FROM EXPANSION.
 - INSTALL AND TEST IN ACCORDANCE WITH CSA B52, LOCAL CODES, AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- I. WIRING**
- ALL POWER WIRING: ELECTRICAL SPECIFICATIONS.
 - 24 VOLT WIRING ONLY: MECHANICAL SPECIFICATIONS.
 - INCLUDE FOR ALL NECESSARY STARTERS, DISCONNECTS, TRANSFORMERS AND RELAYS ETC. FOR ALL EQUIPMENT SUPPLIED UNDER THIS DIVISION.
 - ENSURE CO-ORDINATION BETWEEN TRADES TO AVOID GAPS AND OVERLAPS AND TO ENSURE ALL EQUIPMENT IS OPERATIONAL.
- J. FLASHING AND COUNTER FLASHING FOR EXTERIOR PENETRATIONS OR WATERPROOFED FLOORS SHALL BE PROVIDED UNDER THIS CONTRACT.**
- K. ACCESS DOORS SHALL BE PROVIDED FOR ALL INACCESSIBLE MECHANICAL EQUIPMENT AND SERVICES REQUIRING INSPECTION OR SERVICE. FINISH SHALL SUIT ARCHITECT/DESIGNERS REQUIREMENTS. ACCESS DOORS SHALL BE RECESSED AS REQUIRED TO SUIT WALL FINISH.**
- L. MISCELLANEOUS STEEL**
- PROVIDE STRUCTURAL STEEL, SUPPORT MEMBERS AS NECESSARY TO HANG EQUIPMENT, FANS, DUCTWORK, AND PIPEWORK FROM BUILDING STRUCTURE.
 - PAINT ALL MISCELLANEOUS BARE METAL ONE COAT GREY OXIDE PRIMER.
- M. ALTERNATIVES**
- NO DEVIATION FROM PLANS AND SPECIFICATIONS WILL BE ALLOWED UNLESS WRITTEN APPROVAL AND CONSENT IS FIRST OBTAINED FROM THE CONSULTANT AND OWNER.
 - ASSUME FULL RESPONSIBILITY THAT THE EQUIPMENT OFFERED AS AN ALTERNATIVE IS SUITABLE FOR THE SPACE ALLOCATED, AND FOR ANY ADDITIONAL COSTS TO ANY PART OF THE WORK RESULTING FROM THE USE OF AN ALTERNATE.

- 2. H.V.A.C.**
- A. DUCTWORK**
- PROVIDE DUCTWORK AS INDICATED ON DRAWINGS.
 - PROVIDE ALL DUCTWORK TO "SMACNA" STANDARDS. FABRICATE ALL DUCTWORK FROM GALVANIZED STEEL TO THE CLEAR INSIDE DIMENSIONS AS NOTED ON THE DRAWINGS, WITH ALL FLAT SURFACES CROSS BROKEN.
 - INSTALL ALL DUCTS FREE FROM LEAKS AND SEAL ALL HOLES WITH 3M #474 TAPE.
 - DUCT THICKNESS AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:
- | MAXIMUM SIZE | GAUGE |
|--------------|-------|
| UP TO 5" | 28 |
| 6" TO 12" | 26 |
| 12" TO 30" | 24 |
| 31" & OVER | 22 |
- WHERE ANY CONSTRUCTION IMPEDIMENT OR REQUIREMENT RENDERS THE DIMENSIONS AS SHOWN ON THE DRAWINGS IMPOSSIBLE, ALTER DUCTWORK SO AS TO GIVE AN EFFECTIVE CROSS SECTION AREA EQUAL TO THE THAT ORIGINALLY SHOWN WITHOUT EXCEEDING AN ASPECT RATIO OF 4:1. MAKE CHANGES AT NO ADDITIONAL COST TO THE OWNERS.
 - USE BENDS WHERE POSSIBLE. USE SQUARE ELBOWS C/W TURNING VANES WHEREVER BENDS ARE IMPRACTICAL.
 - BRACE DUCTS SO THEY DO NOT VIBRATE OR SAG. SUPPORT HORIZONTAL DUCTS UP TO 508MM WIDE OR DEEP WITH 25MM X 14. GAUGE GALVANIZED STRAPS PASSING UNDER DUCTS, ON 2438MM CENTRES. USE ANGLE IRON SUPPORT FOR DUCTS OVER 508MM WIDE OR DEEP.
 - PROVIDE APPROVED ACCESS DOORS TO ALL BALANCING DAMPERS ETC. UNLESS INDICATED OTHERWISE.
- B. DUCT INSULATION**
- EXTERNAL INSULATION TO BE OWENS CORNING FIBREGLASS FLEXIBLE RFFRK INSULATION EQUAL TO R-4. INSULATE ALL EXHAUST DUCTWORK FOR A DISTANCE OF 6 FEET FROM EXTERIOR OUTLET, (EXCEPT IN ROOF SPACE; INSULATE ENTIRE LENGTH).
 - INSULATE DUCTWORK EXPOSED TO WEATHER WITH OWENS CORNING FIBREGLASS RIGID RFFRK DUCT INSULATION EQUAL TO R-12, 20.4 KG ASPHALT IMPREGNATED ROOFING FELT WITH 3" OVERLAP AT JOINTS. SEAL WITH WATERPROOF MASTIC ADHESIVE AND HOLD IN PLACE WITH REINFORCED FIBREGLASS MESH COVERING BETWEEN COATS.
 - EXTERNALLY INSULATE ALL FRESH AIR DUCTWORK WITH OWENS CORNING FIBREGLASS FLEXIBLE RFFRK INSULATION EQUAL TO R-5.0.
 - INTERNAL DUCT INSULATION TO BE OWENS CORNING FIBREGLASS NEOPRENE COATED FIBREGLASS DUCT LINER, EQUAL TO R-4.
 - MAKE PROVISIONS FOR DUCT LINER SO THAT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
 - REPAIR OR REPLACE EXISTING DUCT INSULATION WHERE CONNECTIONS ARE MADE TO EXISTING SERVICES OR WHERE DAMAGE OCCURS IN EXISTING INSULATION DUE TO WORK OF THIS CONTRACT.
- C. DIFFUSER, GRILLES AND LOUVRES**
- PROVIDE AS SCHEDULED ON THE DRAWINGS.
- D. FANS**
- PROVIDE AS SCHEDULED ON THE DRAWINGS
 - ADJUST FANS AND MOTORS TO OPERATE QUIETLY, AND MAKE DAMPERS TIGHT TO PREVENT VIBRATION.
 - PROVIDE FANS WITH SPRING ISOLATION TO GIVE A MINIMUM 95% EFFICIENCY
 - ALL FANS ARE PROVIDED BY THIS DIVISION.
 - PROVIDE DUCTWORK AND TERMINALS FOR FANS PROVIDED BY THE ELECTRICAL CONTRACTOR.
- E. BALANCING**
- PROVIDE SUFFICIENT BALANCING DAMPERS TO FACILITATE SYSTEM BALANCING.
 - BALANCE TO PROVIDE AIR QUANTITIES SHOWN.
- F. CONTROLS**
- CONTRACTOR TO PROVIDE ALL NECESSARY CONTROL WIRING AND CONTROL DEVICES AS REQUIRED TO ENSURE PROPER OPERATION OF EQUIPMENT AS SPECIFIED HEREIN.
 - MINI SPLIT TO BE CONTROLLED BY 24 VOLT HEAT/COOL THERMOSTAT. THERMOSTAT TO MAINTAIN DESIRED SET POINTS IN HEATING/COOLING MODE. THERMOSTAT TO HAVE A FAN ON/AUTO SWITCH TO ENABLE CYCLING OF THE FAN. THERMOSTAT TO BE MANUALLY SWITCHED FROM HEATING TO COOLING MODE. MECHANICAL CONTRACTOR SHALL CO-ORDINATE AND ARRANGE WITH ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CONDUITS FOR CONTROL WIRING.