

01 MECHANICAL PLAN

Scale: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO MECHANICAL COVER SHEET DRAWING FOR SYMBOLS, ABBREVIATIONS, SPECIFICATIONS, AND ADDITIONAL INFORMATION.
2. THE DRAWING SCALE IS NOT NECESSARILY TO INDICATE OFFSETS, FITTINGS AND ACCURACIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL EXAMINE FIELD CONDITIONS AND MAKE THE NECESSARY FITTINGS WHICH MAY BE REQUIRED TO COMPLETE THE INSTALLATION.
3. PRIOR TO PROVIDING MECHANICAL CONTRACTOR SHALL VERIFY THAT NEW EQUIPMENT WILL FIT IN THE SPACE INCLUDING ANY CLEARANCES REQUIRED FOR MAINTENANCE ACCESS OR OPERATION. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.
4. MAINTENANCE CLEARANCE AND MANUFACTURER'S RECOMMENDED CLEARANCES FOR ALL NEW EQUIPMENT.
5. SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY DIVISION 14 FOR EACH AIR HANDLING UNIT OR EXHAUST FAN. DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE SMOKE DETECTOR MANUFACTURER'S INSTALLATION MANUAL. IN ADDITION, A SMOKE EXHAUST FAN SHALL BE PROVIDED AT EACH UNIT. REFER TO THE MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.
6. PROVIDE REMOTE DAMPER OPERATORS FOR ALL SPRING DAMPERS LOCATED ABOVE ACCESSIBLE CEILING. OPERATORS SHALL BE BOTH VISIBLY IDENTIFIABLE AND ACCESSIBLE TO THE OPERATOR. CONDENSED WATER SHALL BE COLLECTED IN A CONDENSATE TRAY AND DRAIN TO A DRAINAGE POINT. REFER TO THE MANUFACTURER'S INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING TO THE ENGINEER'S ATTENTION ANY SITUATION THAT EXISTS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL RETURN AIR HANDLING UNITS TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL PROVIDE A CROSS SECTIONAL AREA EQUIVALENT TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL PROVIDE A CROSS SECTIONAL AREA EQUIVALENT TO THE ORIGINAL CONDITION.
8. EXHAUST DRAIN CONNECTIONS MAY BE REQUIRED IF LOCATED WITHIN 10' OF NEW CONNECTION SHOWN ON DRAWING. ALL DRAIN CONNECTIONS NOT USED SHALL BE REMOVED AND DUCTWORK SHALL BE PATCHED WITH METAL. SEALS ARE REGULATED TO MATCH EXISTING.
9. DURING CONSTRUCTION, SEAL ALL OPEN DUCTS WITH PLASTIC TO PREVENT OUTDOOR CLEAN AIR FROM ENTERING DUCTS. PRIOR TO DUCT INSTALLATION, ALL AIR TERMINAL DIFFUSERS SHALL BE MAINTAINED DURING CONSTRUCTION AND BEFORE THE END OF CONSTRUCTION. PROVIDE CONSTRUCTION PLUGS OVER AIR HANDLING UNIT INPASS AND MAINTAIN THE METAL DURING CONSTRUCTION. REPLACE ALL PLUGS AT THE END OF CONSTRUCTION. ALL RETURN AIR DUCTS SHALL BE COVERED WITH FILTER MEDIA DURING CONSTRUCTION. REMOVE UPON COMPLETION.
10. ROUTE PRIMARY AND SECONDARY SUPPLY AIR DUCTS TO ALLOW RISES AND DROPS IN RETURN AIRWAYS. FIELD VERIFY JOINT LOCATION.
11. PRIMARY AND SECONDARY DUCTWORK SHALL HAVE EXTERNAL INSULATION INSTALLED ON TOP SIDE OF DUCTWORK PRIOR TO CHANGING THE DUCTWORK TO LOW DUCT TYPE. SUSPENDED WITH INSULATION TIGHT TO STRUCTURE. (DO NOT COMPRESS INSULATION).
12. MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF CEILING AND WALL MOUNTED AIR CONDITIONING UNITS, DIFFUSERS, GRILLS, AND REGISTERS SHOWN ON THE DRAWINGS ARE ACCURATE TO THE ARCHITECT'S INTENT.
13. CONTRACTOR MAY REUSE REMOVED SHEET DUCTWORK IF THE DUCTWORK IS THE SAME EQUIPMENT SIZE AND IS GOOD CONDITION. MECHANICAL CONTRACTOR SHALL INSULATE AS SPECIFIED ON COVER SHEET.
14. ALL EXHAUST DUCTWORK ON THE POSITIVE PRESSURE SIDE OF THE EXHAUST FAN SHALL BE 3/4" DIA. MIN. DUCT CONSTRUCTION (DOUBLE WALL INSULATED).

DRAWING KEYED NOTES:

1. NEW TOILET EXHAUST FAN ROUTE TO ROOF. PROVIDE RELIEF HOOD WITH INTERNAL BIRDSCREEN. GREEN-NECK MODEL, GRSR OR APPROVED EQUIVALENT.
2. METAL NEW FAN COIL WITH IN-PIPE. QUOTE OUT TYPICAL CEILING AS BASIS TO NEW AIR DISTRIBUTION. FIELD ROUTE CONDENSATE DRAINAGE PIPING FROM EACH FAN COIL UNIT TO NEAREST TOILET DRAIN OR SINK. ROUTE DRAINAGE WITHIN WALL SPACE BEHIND NEW SPA AND TERMINATE ABOVE SINK BASIN. PROVIDE EDUCATORS AT WALL PENETRATIONS. SEE DRAWING FOR GENERAL. THIS SHEET AND PERIODIC.
3. INSTALL NEW CONDENSER IN HAND AREA. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT LOCATION. FIELD ROUTE REFRIGERANT PIPING LINE BETWEEN CONDENSER TO EACH FAN COIL UNIT. COORDINATE LENGTH, SIZE, AND ACCESSORIES WITH MANUFACTURER.
4. REMOVE EXISTING 48" ROUND DUCT OF 1/2" THICK ROOF. PROVIDE ROOF CAP WITH BRASS SCREEN AND BACK-DRAWT DAMPER. GREEN-NECK MODEL, GRSR OR APPROVED EQUIVALENT.
5. METAL NEW DIFFUSER IN PLASTER FRAME FOR GYM/CLUB REST 2.
6. FURNISH OUTDOOR AIR INTAKE WITH ROOF CAP.
7. PROVIDE AIR SPOON DAMPERS FOR ALL DUCT MOUNTED SOIL WALL DIFFUSERS.
8. FOU-3 AND FOU-2 ARE TO OPERATE IN PARALLEL. CONNECT TO SINGLE THERMOSTAT AS SHOWN.
9. THERMOSTAT TO BE MOUNTED AT 4' AFF. PER AIA REQUIREMENTS.

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CONDENSATE PIPE SCHEDULE

CONDENSATE PIPE SIZE	CONDENSATE PIPE MATERIAL
1/2" Dia	Copper
3/4" Dia	Copper
1" Dia	Copper
1 1/2" Dia	Copper
2" Dia	Copper
2 1/2" Dia	Copper
3" Dia	Copper
4" Dia	Copper
6" Dia	Copper
8" Dia	Copper
10" Dia	Copper
12" Dia	Copper
14" Dia	Copper
16" Dia	Copper
18" Dia	Copper
20" Dia	Copper
24" Dia	Copper
30" Dia	Copper
36" Dia	Copper
42" Dia	Copper
48" Dia	Copper
60" Dia	Copper
72" Dia	Copper
84" Dia	Copper
96" Dia	Copper
108" Dia	Copper
120" Dia	Copper
144" Dia	Copper
168" Dia	Copper
192" Dia	Copper
216" Dia	Copper
240" Dia	Copper
264" Dia	Copper
288" Dia	Copper
312" Dia	Copper
336" Dia	Copper
360" Dia	Copper
384" Dia	Copper
408" Dia	Copper
432" Dia	Copper
456" Dia	Copper
480" Dia	Copper
504" Dia	Copper
528" Dia	Copper
552" Dia	Copper
576" Dia	Copper
600" Dia	Copper
624" Dia	Copper
648" Dia	Copper
672" Dia	Copper
696" Dia	Copper
720" Dia	Copper
744" Dia	Copper
768" Dia	Copper
792" Dia	Copper
816" Dia	Copper
840" Dia	Copper
864" Dia	Copper
888" Dia	Copper
912" Dia	Copper
936" Dia	Copper
960" Dia	Copper
984" Dia	Copper
1008" Dia	Copper
1032" Dia	Copper
1056" Dia	Copper
1080" Dia	Copper
1104" Dia	Copper
1128" Dia	Copper
1152" Dia	Copper
1176" Dia	Copper
1200" Dia	Copper
1224" Dia	Copper
1248" Dia	Copper
1272" Dia	Copper
1296" Dia	Copper
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1392" Dia	Copper
1416" Dia	Copper
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1464" Dia	Copper
1488" Dia	Copper
1512" Dia	Copper
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1776" Dia	Copper
1800" Dia	Copper
1824" Dia	Copper
1848" Dia	Copper
1872" Dia	Copper
1896" Dia	Copper
1920" Dia	Copper
1944" Dia	Copper
1968" Dia	Copper
1992" Dia	Copper
2016" Dia	Copper
2040" Dia	Copper
2064" Dia	Copper
2088" Dia	Copper
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2160" Dia	Copper
2184" Dia	Copper
2208" Dia	Copper
2232" Dia	Copper
2256" Dia	Copper
2280" Dia	Copper
2304" Dia	Copper
2328" Dia	Copper
2352" Dia	Copper
2376" Dia	Copper
2400" Dia	Copper
2424" Dia	Copper
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REVISIONS:

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DRAWING TITLE:
MECHANICAL PLAN

SHEET NUMBER:
CH-M2.1

1/2" SCALE WHEN PRINTED ON 11X17
FULL SCALE WHEN PRINTED ON 24X36
© LEMMO ARCHITECTURE AND DESIGN



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SPLIT SYSTEM A/C UNIT SCHEDULE

EVAPORATOR MARK	SERVICES	POSITION	TOTAL AIRFLOW CFM	OUTSIDE AIRFLOW CFM	EXT. S.P. DROP IN.	COOLING CAPACITY DATA				ELECTRIC HEAT DATA			EVAPORATOR ELECTRICAL DATA				EVAPORATOR MANUFACTURER AND MODEL NUMBER	WEIGHT LBS.	AIR COOLED CONDENSER MARK	OUTDOOR AMBIENT TEMP. °F	CONDENSER ELECTRICAL DATA				CONDENSER MANUFACTURER AND MODEL NUMBER	MINIMUM SEER2 RATING @ AHU	WEIGHT LBS.			
						ENTERING AIR °F DB	°F WB	NET SENSIBLE MBH	NET TOTAL MBH	HEATING CAPACITY KW	STAGES	VOLTS	PH	HP	VOLTS	PH					MINIMUM CIRCUIT AMPACITY	RECOMMENDED OVERCURRENT PROTECTION	VOLTS	PH				MINIMUM BRANCH CIRCUIT AMPACITY	PROTECTION RATING	REFRIGERANT
FCU-1-1	SEE PLANS	HORIZONTAL	1580	150	0.5	77.4	64	40.0	42.6	10.8	1	208	3	1/2	208	1	41	45	TRANE TAM4AOC4B	135	CU-1-1	105	208	3	18	30	R410A	TRANE 4TTA304B	15.2	222
FCU-2-1	SEE PLANS	HORIZONTAL	1915	220	0.5	79.5	63.6	49.9	60.1	10.8	1	208	3	1	208	1	46	50	TRANE TAM4AOC60	160	CU-2-1	105	208	3	22	35	R410A	TRANE 4TTA3060	15.2	222
FCU-2-2	SEE PLANS	HORIZONTAL	1915	220	0.5	79.5	63.6	49.9	60.1	10.8	1	208	3	1	208	1	46	50	TRANE TAM4AOC60	160	CU-2-2	105	208	3	22	35	R410A	TRANE 4TTA3060	15.2	222
FCU-2-3	SEE PLANS	HORIZONTAL	1480	150	0.5	77.4	64	40.0	42.6	10.8	1	208	3	1/2	208	1	41	45	TRANE TAM4AOC4B	135	CU-2-3	105	208	3	18	30	R410A	TRANE 4TTA304B	15.2	222
FCU-2-4	SEE PLANS	HORIZONTAL	500	50	0.5	79.0	62.6	9.1	10.1	3.6	1	208	1	1/3	208	1	23	25	TRANE TAM6A0A24	120	CU-2-4	105	208	1	12	20	R410A	TRANE 4TR401B	15.2	222

SPLIT SYSTEM A/C UNIT SCHEDULE NOTES:

- FAN COIL UNITS SHALL BE HORIZONTAL CONFIGURATION, FLEXIBLE INLET & OUTLET DUCT CONNECTIONS, VIBRATION ISOLATION KIT, FREEZE STAT, AUXILIARY DRAIN PAN WITH FLOAT SWITCH WIRED TO DE-ENERGIZE UNIT UPON RISE OF WATER IN PAN, AND 1" THICK PLEATED MEDIA (MERV 7 MINIMUM) FILTERS.
- CONDENSING UNITS SHALL BE PROVIDED WITH LOW-AMBIENT CONTROLS AND EVAPORATOR DEFROST CONTROL AS REQUIRED TO ALLOW OPERATION DOWN TO 0°F AMBIENT, ANTI-SHORT CYCLE RELAY, TIMED-OFF CONTROL, HAIL GUARDS, AND 5-YEAR COMPRESSOR WARRANTY. THE CONTRACTOR SHALL DETERMINE EXACT LENGTHS OF REFRIGERANT LINES REQUIRED AND SUBMIT TO MANUFACTURER FOR SIZING OF REFRIGERANT PIPE SIZING. PROVIDE ADDITIONAL COMPONENTS AS RECOMMENDED BY UNIT MANUFACTURER FOR PROPER OPERATION OF UNITS. THE CONTRACTOR SHALL INSTALL THE UNITS AND THE REFRIGERANT PIPING PER THE MANUFACTURER'S RECOMMEND INSTALLATION INSTRUCTIONS.
- PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTOMATIC CHANGE-OVER. THERMOSTAT SHALL HAVE LARGE BACKLIT TOUCHSCREEN, BATTERY BACKUP TO RETAIN PROGRAMMING DURING POWER OUTAGE. THERMOSTAT SHALL AUTOMATICALLY RESET TIME SCHEDULES FOR DAYLIGHT SAVINGS TIME. SUPPORT FOR MULTIPLE STAGE HEATING/COOLING (AS REQUIRED), ADJUSTABLE PARTIAL OR FULL KEYPAD LOCKOUT, 5-YEAR WARRANTY.
- DISCONNECT SWITCH SHALL BE UNIT MOUNTED AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- BASIS OF DESIGN IS TRANE. IF THE ABOVE PERFORMANCE AND SPECIFICATIONS ARE MET, THEN ALTERNATE MANUFACTURERS (SUBMITTAL REQUIRED) ARE: AMERICAN STANDARD, CARRIER, AND LENNOX.
- WHERE REQUIRED (AS SHOWN ON PLANS) PROVIDE A CONDENSATE PUMP: MAXI BLUE OR EQUAL, 120V-1PH. COORDINATE WITH ELECTRICAL.

FAN SCHEDULE

MARK	LOCATION	SERVICE	TOTAL CFM	TOTAL S.P. IN. WG	FRPM	FAN TYPE ARRANGEMENT	ELECTRICAL DATA				MANUFACTURER AND MODEL NUMBER
							HP	WATTS	VOLTS	PH	
TEF-1	CEILING	SEE PLANS	75	0.25	904	CEILING - CABINET	---	83	120	1	GREENHECK SP-A300
TEF-2	CEILING	SEE PLANS	75	0.25	904	CEILING - CABINET	---	83	120	1	GREENHECK SP-A300
TEF-3	CEILING	SEE PLANS	75	0.25	904	CEILING - CABINET	---	83	120	1	GREENHECK SP-A300
TEF-4	CEILING	SEE PLANS	75	0.25	904	CEILING - CABINET	---	83	120	1	GREENHECK SP-A300
TEF-5	CEILING	SEE PLANS	75	0.25	904	CEILING - CABINET	---	83	120	1	GREENHECK SP-A300
TEF-6	CEILING	SEE PLANS	75	0.25	904	CEILING - CABINET	---	83	120	1	GREENHECK SP-A300

NOTES:

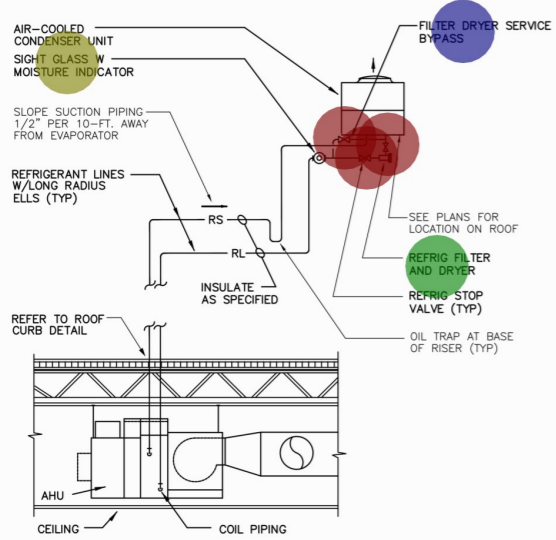
- PROVIDE VENTILATION FAN TEF-1, WITH THE FOLLOWING: ALUMINUM GRILLE W/ WHITE ENAMEL FINISH, ISOLATION KIT, MOTOR W/ THERMAL OVERLOADS, SPEED CONTROLLER FOR BALANCING, DIRECT DRIVE, AND INTEGRAL SPRING LOADED BACKDRAFT DAMPER.
- PROVIDE SWITCH FOR FAN OPERATION ADJACENT TO ROOM LIGHTSWITCH
- DISCONNECT SWITCH SHALL NOT BE UNIT MOUNTED AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- IF PERFORMANCE AND SPECIFICATIONS ARE MET ALTERNATE MANUFACTURER BY SUBMITTAL SHALL BE: COOK.

AIR DISTRIBUTION DEVICE SCHEDULE

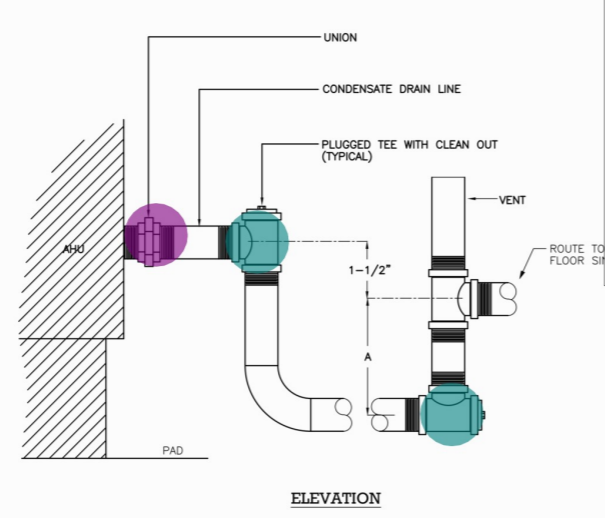
MARK	SERVICE	TYPE	FINISH	NECK INCHES SQUARE	FACE INCHES SQUARE	MANUFACTURER AND MODEL NUMBER
A	SUPPLY	PLAQUE	OFF-WHITE	SEE PLANS	24"x24"	TITUS OMNI
B	RETURN	PLAQUE	OFF-WHITE	SEE PLANS	24"x24"	TITUS OMNI
C	SUPPLY / RETURN	LOUVERED	MATCH DUCT OR WALL	SEE PLANS	SEE PLANS	TITUS 350L

NOTES:

- FLEXIBLE DUCT RUN-OUTS SHALL BE LIMITED TO 72-IN TOTAL LENGTH PER RUN-OUT. PROVIDE RIGID ROUND EXTERNALLY INSULATED DUCT FOR RUN-OUTS IN EXCESS OF 72-IN TOTAL LENGTH. SUPPORT FLEXIBLE DUCT WITH GALVANIZED STRAP HANGERS SPACED 3- FEET ON CENTER.
- DUCT RUN-OUTS TO AIR DEVICES SHALL BE EQUAL TO THE DIAMETER OF THE NECK SIZE INDICATED ABOVE, UNLESS ANOTHER SIZE IS NOTED ON PLANS. PROVIDE TRANSITION TO NECK SIZE DOWNSTREAM OF TAP AND BRANCH DUCTWORK. FLEX DUCT SIZE SHALL BE EQUAL TO NECK SIZE, TYP.
- SUPPLY AIR DEVICES SHALL BE FOUR-WAY THROW UNLESS INDICATED OTHERWISE BY ARROWS ON PLANS.
- EXISTING BASE BUILDING AIR DEVICES SHOWN LIGHT AND DASHED MAY BE RE-USED WHERE INDICATED NECK SIZE MATCHES THE SCHEDULED PERFORMANCE. FIELD VERIFY QUANTITY OF AIR DEVICES TO BE RE-USED PRIOR TO BID. CLEAN, PAINT, AND REFURBISH DEVICES TO BE RE-USED AS REQUIRED.
- CONTRACTOR SHALL VERIFY CEILING TYPE WITH ARCHITECT AND PROVIDE FRAMING FOR ALL AIR DEVICES.
- COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING. SUBMIT COLOR CHART TO ARCHITECT.
- CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT WITH THE ARCHITECT FOR ALL SIDEWALL & DOOR GRILLES.
- CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT SUPPORTS TO ALL SPLIT AIR DEVICES.
- VAV AIR DEVICES SHALL BE COORDINATED WITH ARCHITECT.



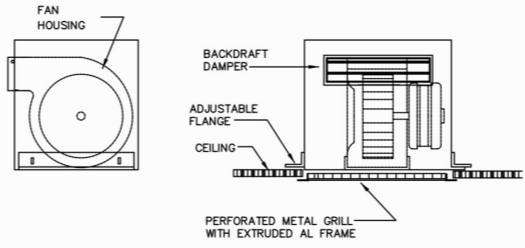
03 REFRIGERANT PIPING FOR SUSPENDED AHU
Scale: NONE



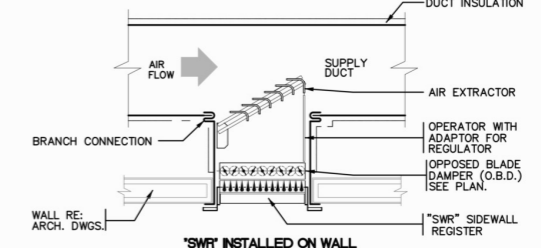
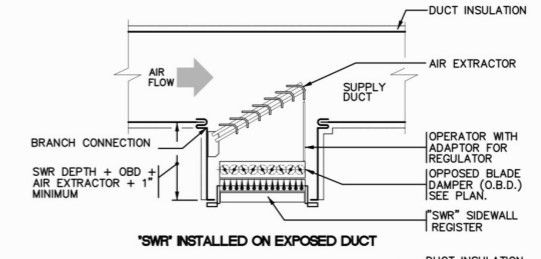
A- MINIMUM = TOTAL POSITIVE STATIC PRESSURE (BLOW THRU)
 A- MINIMUM = TOTAL NEGATIVE STATIC PRESSURE (DRAW THRU)

01 CONDENSATE DRAIN
Scale: NONE

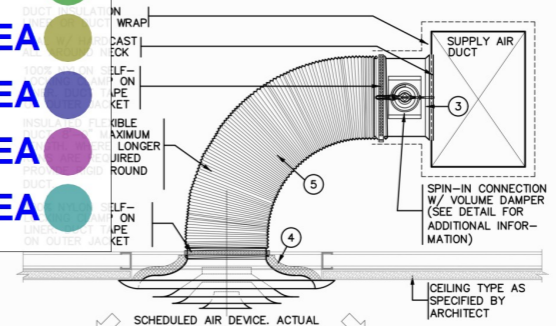
- 3/8" Dia Stop Valve **3.0 EA**
- 3/8" Dia REFRIG Filte... **1.0 EA**
- 3/8" Dia Sight Glass ... **1.0 EA**
- 3/8" Dia Filter Dryer S... **1.0 EA**
- 3/4" Dia Union **1.0 EA**
- 3/4" Dia Plugged Tee ... **2.0 EA**



02 CEILING CABINET FAN
Scale: NONE



05 SIDEWALL REGISTER INSTALLATION DETAIL
Scale: NONE #DET005



- NOTES:**
- CEILING DIFFUSER SHALL BE INSTALLED SUCH THAT THE FACE OF DIFFUSER IS FLUSH WITH CEILING.
 - SUPPORT FLEXIBLE DUCT FROM STRUCTURE. FLEXIBLE DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURE, CEILING SUPPORT "TEES" OR CEILING TILE.
 - PROVIDE SQUARE TO ROUND TAP WHERE FLEXIBLE DUCT SIZE EXCEEDS DIMENSION OF RECTANGULAR DUCT. (SEE ROUND TAP DET. FOR ADDITIONAL INFORMATION.)
 - INSULATE BACK OF CEILING DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.
 - METALLIC FLEXIBLE DUCT SHALL BE USED WHERE FLEXIBLE DUCT CONNECTIONS ARE SHOWN ON THE DRAWING TO ALL AIR DEVICES INSTALLED IN INACCESSIBLE LOCATIONS SUCH AS ABOVE GYPSUM BOARD OR PLASTER CEILINGS. (REFER TO ARCH. DRAWINGS FOR CEILING TYPE.)

04 ROUND DIFFUSER INSTALLATION DETAIL
Scale: NONE

BIG VALLEY CLUBHOUSE

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