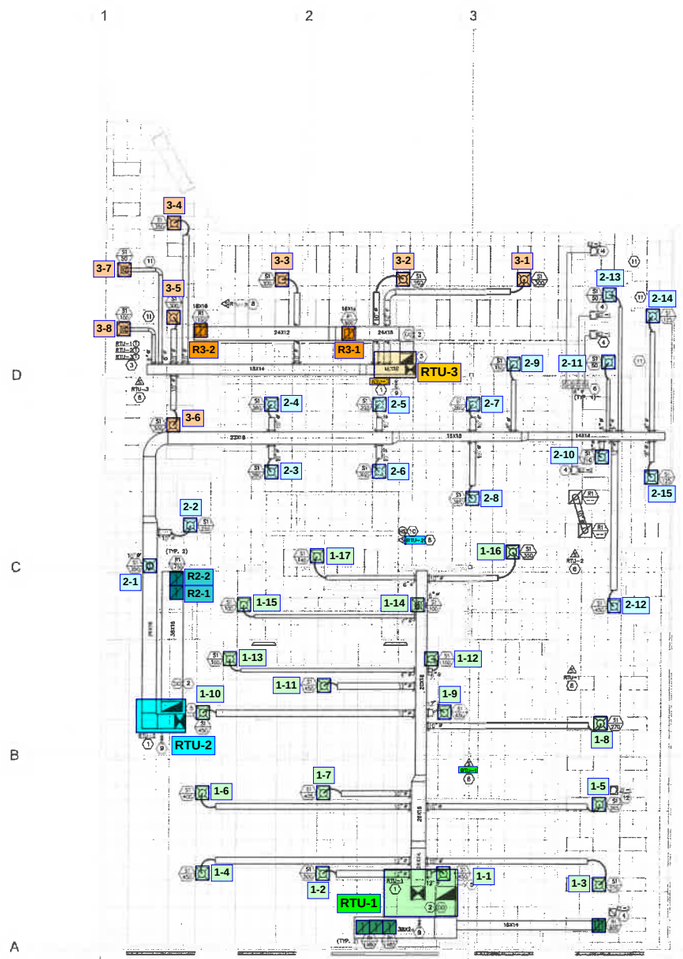

1 HVAC FLOOR PLAN
M1.0 SCALE: 1/8"=1'-0"

GENERAL NOTES

1. T.G.C. SHALL REPLACE ALL HVAC FILTERS PRIOR TO THE TURN OVER OF THE SPACE TO DAVID'S BRIDAL.
2. T.G.C. TO FIELD VERIFY ALL CONDITIONS AND DIMENSIONS
3. PRIOR TO BID, T.G.C. TO VLF, BOTTOM OF ROOF STRUCTURE HEIGHTS. CONTACT ARCHITECT AND ENGINEER IF DUCT DESIGN WILL NOT ALLOW FOR THE DESIGNED CEILING HEIGHT ON THE ARCHITECT'S PLANS. PRIOR TO ORDERING THE SPECIFIED DUCTS, T.G.C. IS TO DOBC EXISTING CEILING AND VERIFY THAT THE DESIGNED MECHANICAL LAYOUT CAN BE ACHIEVED.
4. ALL DUCTWORK INSULATION SHALL BE AT LEAST R-8.

EXHAUST FAN SCHEDULE

MARK NO.	EF-1	EF-2	EF-3
MANUFACTURER	PENN	PENN	PENN
MODEL NO.	ZEPHYR	ZEPHYR	ZEPHYR
CFM	70	100	600
STATIC PRESSURE	0.25"	0.25"	0.25"
MOTOR HP	1/4	1/4	1/4
ELECTRICAL	120 VOLTS	120 VOLTS	120 VOLTS
AREA SERVED	TOILET ROOMS	JANITOR CLOSET/ BREAK ROOM	ALTERATIONS

ACCESSORIES:
FC - PRE/FABRICATED ROOF CURB, DS - WEATHERPROOF DISCONNECT SWITCH.
BD - GRAVITY BACKDRAFT DAMPER, BS - BIRDSCREEN

NOTES:
1. FAN SHALL OPERATE AT 120V, SINGLE PHASE.
2. T.G.C. WILL PROVIDE AND INSTALL EXHAUST DUCT FROM FAN TO DISCHARGE THROUGH ROOF MOUNTED GOOSENECK TERMINATION. SEE DETAIL 2/M2.0

ZOO FAN SCHEDULE

MARK NO.	ZF-1
MANUFACTURER	ZOO FANS
MODEL NO.	ICSO
CFM	290
ELECTRICAL	120 VOLTS

NOTES:
1. FAN SHALL OPERATE AT 120V, SINGLE PHASE.
2. FAN SHALL BE CONTROLLED BY TIMER SWITCH IN ROOM

CO2 SENSOR AND INSTALLATION NOTES

SENSOR SPECIFICATIONS

1. COMMERCIAL SENSOR UTILIZES A SINGLE BEAM ABSORPTION INFRARED DIFFUSION SAMPLE METHOD FOR CARBON DIOXIDE (CO2) DETECTION. USING CO2 AS AN INDICATOR OF OCCUPANCY WILL ALLOW VENTILATION BASED ON ACTUAL OCCUPANCY WHILE MAINTAINING CODE REQUIRED PER-PERSON VENTILATION RATES
2. SENSOR WILL MODULATE OUTSIDE AIR QUANTITIES THROUGH ECONOMIZER DAMPER ACTUATORS AND WILL CONTROL AMOUNT BETWEEN 0 AND 100% OUTSIDE AIR.
3. SENSOR SHALL BE PROVIDED WITH ROOFTOP AIR CONDITIONING UNITS AND INSTALL PER MANUFACTURERS REQUIREMENTS.

COMMISSIONING NOTE

WHEN REQUIRED, IT IT THE OWNER'S RESPONSIBILITY TO CONTRACT WITH A COMMISSIONING AUTHORITY TO COMPLY WITH LOCAL CODES.

MECHANICAL KEYED NOTES

(APPLICABLE TO THIS SHEET ONLY)

1. NEW ROOF TOP IN EXISTING LOCATION UNIT PER SCHEDULE ON SHEET M2.0. PROVIDE NEW ADAPTER CURBS AS REQUIRED. FIELD VERIFY EXACT LOCATION.
2. DUCT MOUNTED SMOKE DETECTOR IN RA DUCT TO PROVIDE FAN SHUTDOWN UPON DETECTION. T.G.C. IS TO ENSURE ADEQUATE ACCESS TO THE SMOKE DETECTOR FOR ANNUAL SERVICE AND TESTING. SMOKE DETECTORS ARE TO BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM IF APPLICABLE. D.C. IS TO PROVIDE NEW IF NOT EXISTING.
3. THERMOSTAT FOR INDICATED UNIT CONTROL WHERE SHOWN AT 48" A.F.F. ROUTE CONTROL WIRING CONCEALED (WHEREVER POSSIBLE) AND AS HIGH AS POSSIBLE TO THE RTU. THERMOSTATS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS WITH A CLEAR PLASTIC LOCKING COVER. REFER TO FIXTURE PLAN TO PREVENT INTERFERENCE WITH SALES FIXTURES. INSTALLED BY MSS SOLUTIONS.
4. NEW EXHAUST FAN AS SPECIFIED ON THIS SHEET.
5. CONDENSATE LINE TO TERMINATE AT LANDLORD APPROVED LOCATION.
6. UP TO GOOSENECK TERMINATION ON ROOF. T.G.C. TO ENSURE ALL EXHAUST AIR TERMINATIONS ARE MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE
7. NOT USED
8. REMOTE AVERAGING SENSOR TO BE LOCATED AND INSTALLED BY MSS SOLUTIONS/ HONEYWELL DURING INSTALLATION OF EMS.
9. CONNECT TO EXISTING GAS SYSTEM. PROVIDE NEW GAS LINES PER CODE AS REQUIRED. CONNECT TO EXISTING METER & COORDINATE WITH UTILITY.
10. HUMIDITY SENSOR INSTALLED BY MSS SOLUTIONS AND WIRED TO EMS FOR HUMIDITY MONITORING.
11. UNDERCUT DOOR 1" TO PROVIDE TRANSFER OF AIR.
12. NEW ZOO FAN AS SPECIFIED ON THIS SHEET

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DAVID'S™ BRIDAL

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CONSULTANTS

REVISIONS

DATE	NO.	DESCRIPTION
2021.06.11		PERMIT SET

PROFESSIONAL OF RECORD SEAL

STATE OF OHIO
DON J. PENN
E-60889
REGISTERED
PROFESSIONAL ENGINEER
06/11/2021

DAVID'S BRIDAL™
STORE #32 "CINCINNATI, OH"
7676 VOICE OF AMERICAN CENTRE DR
WEST CHESTER TWP, OH 45069

PROJECT NUMBER: 6788-21
CONFIG:
DRAWN BY: SC
CHECKED BY: HO

MECHANICAL PLAN

M1.0