

KEY NOTES BY SYMBOL '⬡'

- 1 NEW RTU ON EXISTING ROOF CURB IN EXISTING RTU LOCATION. REUSE EXISTING ROOF PENETRATION. PROVIDE NEW DUCTWORK AS SHOWN. PROVIDE CURB ADAPTERS AS NEEDED.
- 2 PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT (HONEYWELL VISION PRO 8000 WIFI-ENABLED WITH REDLINK) WITH AUTO CHANGEOVER AND RELATED WIRING TO CONTROL EACH RTU. MOUNT AT 48" AFF. IN UTILITY ROOM. REDLINK COMPONENT OF THERMOSTATS SHALL BE INSTALLED IN SERVER RACK.
- 3 DUCT SMOKE DETECTORS IN RETURN DUCT TO MEET LOCAL CODE REQUIREMENTS. DUCT SMOKE DETECTOR MUST TIE INTO BASE BUILDING FIRE ALARM SYSTEM. IF PRESENT. BASE BIDE SHALL PRESUME DETECTORS ARE EXISTING AND CODE COMPLIANT. PROVIDE ADDITIONAL DETECTORS AS NEEDED.
- 4 4" DRYER VENT LINE SHALL TERMINATE ABOVE ROOF DECK. MAINTAIN 10'-0" FROM BUILDING OPENING AND AIR INTAKES. TERMINATE IN LONG RADIUS GOOSE NECK.
- 5 REMOTE SENSOR AT 54" AFF. WIRE BACK TO THERMOSTAT IN UTILITY ROOM.
- 6 DUCT DISCHARGING TO HALL SHALL BE NO SMALLER THAN 14". PROVIDE IN-LINE BAROMETRIC RELIEF DAMPER WEIGHTED TO DISCHARGE CFM INDICATED. SALON ROOMS HAVE FACE MOUNTED DAMPERS ADJUSTABLE BY TENANTS. BAROMETRIC DAMPERS SHALL BE SET TO CFM SHOWN AT INITIAL AIR BALANCE, AND TO FULLY OPEN IF BACK PRESSURE IN DUCT REACHES 0.15" W.C. PROVIDE MINIMUM WEIGHTED DAMPERS PER EACH RTU. PROVIDE AT LEAST ONE SUCH DUCT PER HVAC UNIT.
- 7 PROVIDE NEW CONDENSATE LINE AND ROUTE TO MOP SINK.
- 8 NEW GAS WATER HEATER AND ASSOCIATED FLUE AND INTAKE THRU ROOF. REF DETAIL P1.1/02.
- 9 SALON ROOM EXHAUST FAN. INTERLOCK W/OUTDOOR AIR DAMPER ON RTU TO RUN ANYTIME. RTU IS BRINGING IN OUTSIDE AIR (SUPPLY FAN ON, O.A. DAMPER OPEN)/ THIS INTERLOCK IS REQUIRED FOR HUMIDITY CONTROL AND PROPER AIR BALANCE. SEE EXHAUST FAN SCHEDULE ON SHEET M1.1 FOR INTERLOCK ASSIGNMENTS.
- 10 FIRE RATED CEILING IN CORRIDORS. ALL SUPPLY AND RETURN DIFFUSER / GRILLES TO HAVE FIRE DAMPER.
- 11 ROOF ACCESS LADDER

DALLAS, TX NOTE:
UNLESS INDICATED OTHERWISE IN THE LEASE, THE G.C. SHALL INCLUDE IN THEIR BID ALL IMPROVEMENTS NECESSARY FOR A COMPLETE FIT OUT. IT SHALL BE ASSUMED THAT THE SPACE IS BEING TURNED OVER IN AS-IS CONDITION. THE G.C. SHALL VISIT THE JOB SITE TO CONFIRM ALL EXISTING CONDITIONS.

DALLAS, TX NOTE:
THIS IS A TENANT FINISH OUT OF AN EXISTING, DOUBLE TALL, STAND-ALONE, SINGLE STORY BUILDING WITH AN UNFINISHED CONCRETE MEZZANINE LEVEL ALONG BACK HALF OF BUILDING. MEZZANINE TO REMAIN AS-IS, AND IS NOT IN SCOPE. BUILDING IS SLAB ON GRADE.

MATTISON AVENUE NOTE:
G.C. IS TO INSTALL NEW FILTERS IN ALL HVAC UNITS UPON STARTUP OF THE UNITS AND REPLACE AGAIN THE DAY PRIOR TO AIR BALANCE. AIR BALANCE AND ANY REQUIRED REPAIRS THAT ARE IDENTIFIED BY MELINK ARE TO BE COMPLETED. IF MELINK IDENTIFIES ANY DEFICIENCIES DURING THEIR COMMISSIONING THE GC IS RESPONSIBLE FOR ALL COSTS FOR MELINK TO RETURN TO THE SOLON AS MANY TIMES AS NECESSARY TO SIGN OFF ON ALL DEFICIENCIES.

PROVIDE VIBRATION ISOLATION MOUNTING AND FITTINGS AS APPLICABLE ON ALL MECHANICAL EQUIPMENT, PUMPS, FANS AND MOTORS.

PROVIDE LONG RADIUS FITTINGS ON ALL DUCTS OVER 1200 CFM, AND TURNING VANES ON ALL DUCTS OVER 2000 CFM.

MATTISON AVENUE NOTE:
G.C. SHALL HIRE HVAC MANUFACTURER TO PERFORM STARTUP OF ALL HVAC UNITS AND PROVIDE HVAC MANUFACTURER STARTUP REPORTS TO PROJECT MANAGER SHOWING ALL DEFICIENCIES CORRECTED.

MATTISON AVE. PROTOTYPICAL NOTE:
ALL MATERIAL SHALL BE PER PLANS AND SPECS. THERE ARE NO APPROVED ALTERNATES, AND NO SUBSTITUTIONS OR EQUALS ALLOWED WITHOUT WRITTEN APPROVAL OF PROJECT MANAGER. ANY MENTION OF EQUALS OR ALTERNATES THROUGHOUT THE SET SHALL BE DISREGARDED.

PROTOTYPICAL NOTE:
HALLWAY DIFFUSER SHALL HAVE SECTIONIZERS, WITH TWO SECTIONS BLOCKED TO THROW AIR LENGTHWISE DOWN HALLWAY.

HVAC DROP LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD-VERIFY EXACT DROP CONFIGURATION ON BOTTOM OF RTU, AND EXISTING BEAM, COLUMN AND JOIST LOCATIONS AND MODIFY DUCT LAYOUT NEAR RTU AS FIELD CONDITIONS REQUIRE. MAINTAIN CROSS SECTIONAL AREA AS INDICATED.

RETURN PLENUM NOTE:
THE HVAC SYSTEM UTILIZES A PLENUM RETURN AIR DESIGN. ALL MATERIAL USED SHALL BE COMPATIBLE / PLENUM RATED. THE ENGINEER RECOMMENDS HAVING THE MECHANICAL INSPECTOR OUT WHEN THE CEILING SPACE IS OPEN TO CONFIRM NO ADDITIONAL DEMO WILL BE NEEDED FOR THE SPACE TO UTILIZE A PLENUM RETURN AIR SYSTEM.

FINAL PLACEMENT OF THERMOSTAT TO BE SELECTED BY CONSTRUCTION MANAGER OR OWNER'S REPRESENTATIVE AND MAY NEED TO BE MODIFIED DUE TO FIELD CONDITIONS.

MATTISON AVENUE NOTE:
THE MECHANICAL CONTRACTOR SHALL INCLUDE IN PRICING THE OPTION FOR A 1-YR SERVICE CONTRACT TO MAINTAIN THE UNITS AND ESTABLISH A PROPER SERVICE FREQUENCY. DEPENDING ON AEROSOLS USED (HAIR SPRAY, ETC.) FILTER REPLACEMENT MAY BE REQUIRED IN 2-MONTH OR MORE FREQUENT INTERVALS.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
⊙	THERMOSTAT @ 48" AFF
⊕	DUCT MOUNTED SMOKE DETECTOR
⊖	SMOKE DETECTOR REMOTE ANNUNCIATOR
⊗	REMOTE ROOM TEMPERATURE SENSOR AT 96" AFF
—	VOLUME DAMPER
⊞	MOTORIZED DAMPER WITH ACTUATOR
RTU	ROOF TOP UNIT
EF	EXHAUST FAN
⊞	BAROMETRIC FLAP DAMPER
FSU	FIRE SMOKE DAMPER

*NOT ALL SYMBOLS USED ON ALL JOBS.

AIR DEVICE NECK CHART

8"	0 TO 180 CFM
10"	185 TO 350 CFM
12"	355 TO 550 CFM
14"	555 TO 850 CFM
16"	855 TO 1350 CFM
18"	1360 TO 1750 CFM

**USE ABOVE SIZES UNLESS CALLED OUT AS LARGER ON PLANS.

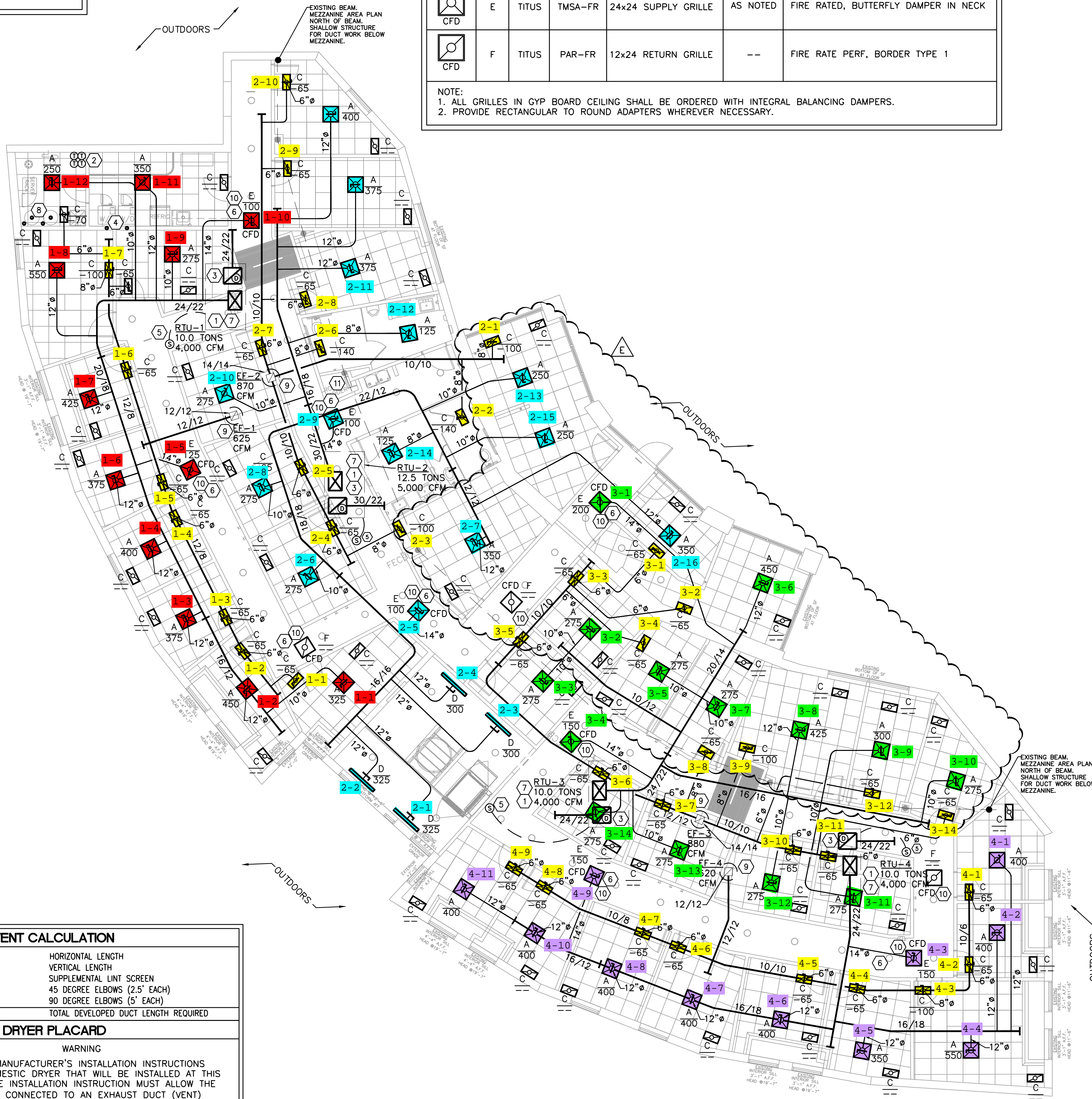
HVAC SUMMARY:

6,897 SQ FT.
42.5 TONS
162.3 SF/TON

AIR DEVICE SCHEDULE

SYMBOL	TAG	MANUF.	CATALOG NUMBER	FIXTURE DESCRIPTION	NECK SIZE	REMARKS
⊞	A	TITUS	OMNI	24x24 SUPPLY GRILLE	AS NOTED	BUTTERFLY DAMPER IN NECK
⊞	B	TITUS	50F	24x24 RETURN GRILLE	AS NOTED	EGGCRATE, BORDER TYPE 1
⊞	C	TITUS	50F	12x24 RETURN GRILLE	--	EGGCRATE, BORDER TYPE 1
—	D	TITUS	FLOWBAR	2" SLOT	--	WITH INSULATED PLENUM AND MANUAL VOLUME DAMPER.
⊞	E	TITUS	TMSA-FR	24x24 SUPPLY GRILLE	AS NOTED	FIRE RATED, BUTTERFLY DAMPER IN NECK
⊞	F	TITUS	PAR-FR	12x24 RETURN GRILLE	--	FIRE RATE PERF, BORDER TYPE 1

NOTE:
1. ALL GRILLES IN CYP BOARD CEILING SHALL BE ORDERED WITH INTEGRAL BALANCING DAMPERS.
2. PROVIDE RECTANGULAR TO ROUND ADAPTERS WHEREVER NECESSARY.



DRYER VENT CALCULATION

0'-0"	HORIZONTAL LENGTH
20'-0"	VERTICAL LENGTH
25'-0"	SUPPLEMENTAL LINT SCREEN
0	45 DEGREE ELBOWS (2.5' EACH)
0	90 DEGREE ELBOWS (5' EACH)
45'-0"	TOTAL DEVELOPED DUCT LENGTH REQUIRED

SAMPLE DRYER PLACARD

WARNING
CHECK THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ANY DOMESTIC DRYER THAT WILL BE INSTALLED AT THIS LOCATION. THE INSTALLATION INSTRUCTION MUST ALLOW THE DRYER TO BE CONNECTED TO AN EXHAUST DUCT (VENT) THAT IS FEET.
*DRYER DUCT SHALL BE INSULATED.

**PROVIDE INLINE BOOSTER FAN EQUAL TO FAN TECH #DBF4XL. THERE SHALL BE NO DUCT SEAMS BETWEEN BOOSTER FAN AND DISCHARGE POINT (DRYER ROOF VENT CAP/WALL PORT). PER INSTALLATION/OPERATION MANUAL. THIS BOOSTER IS SUITABLE TO OVERCOME AN EQUIVALENT DUCT LENGTH OF 130' OF 4" DIAMETER GALVANIZED STEEL DUCT.

LANDLORD NOTE:
ANY TENANT VENTS THAT PROVE TO CAUSE AN ODOR PROBLEM AFTER OPENING WILL BE REQUIRED TO ADD A CARBON VENT FILTER. PLY-AIR ACTIVATED CARBON VENT FILTER BY POLYLOK OR EQUAL.

A TEST AND BALANCE REPORT FOR FINAL HVAC SYSTEM PERFORMED BY A THIRD PARTY NEBB OR AABC CONTRACTOR SHALL BE PROVIDED TO OWNER.

MATTISON AVENUE NOTE:
G.C. IS TO OBTAIN A PROPOSAL FROM MELINK TO PERFORM THE COMMISSIONING AND AIR BALANCE OF THE MECHANICAL SYSTEMS AND INCLUDE IN BID. PLEASE CONTACT JOEL GEIMAN AT 513-965-7012, TBESTIMATING@MELINKCORP.COM FOR A PROPOSAL.

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MECHANICAL PLAN

STATE OF TEXAS
PETER ADAM LEPTUCH
101149

M1.0

REVISIONS: A- ISSUED FOR OWNER REVIEW 03/31/22 C- ISSUED WITH OWNER FUTURE CHANGES 05/01/22 E- REVISED FOR EXISTING CONDITIONS 9/16/2022
B- ISSUED FOR BID & PERMIT 04/11/22 D- ISSUED WITH OWNER FUTURE CHANGES AND LL COMMENTS 05/25/22

01 **MECHANICAL PLAN**
SCALE: 1/8"=1'-0"