PACKAGED AIR CONDITIONING UNIT SCHEDULE

MARK	MFG/MODEL NO.	CFM	ESP, SP. (IN.W.C.)	TOT. SP. (IN.W.C.)	FAN RPM	MOTOR HP	HEATING (MBH) INPUT	HEATING (MBH) OUTPUT	NOMINAL COOLING (TONS)	EER (SEER)	FLA	MCA	MOPD	VOLTAGE	OPER. WEIGHT
RTU-1	TRANE YSC120H3	4,000	-	-	-	2.75	200.0	160.0	10.0	11.2	43.3	49.0	60	208/3	1239#
RTU-2	TRANE YSC120H3	4,000	-	-	-	2.75	200.0	160.0	10.0	11.2	43.3	49.0	60	208/3	1239#

REQUIRED AC UNIT ACCESSORIES

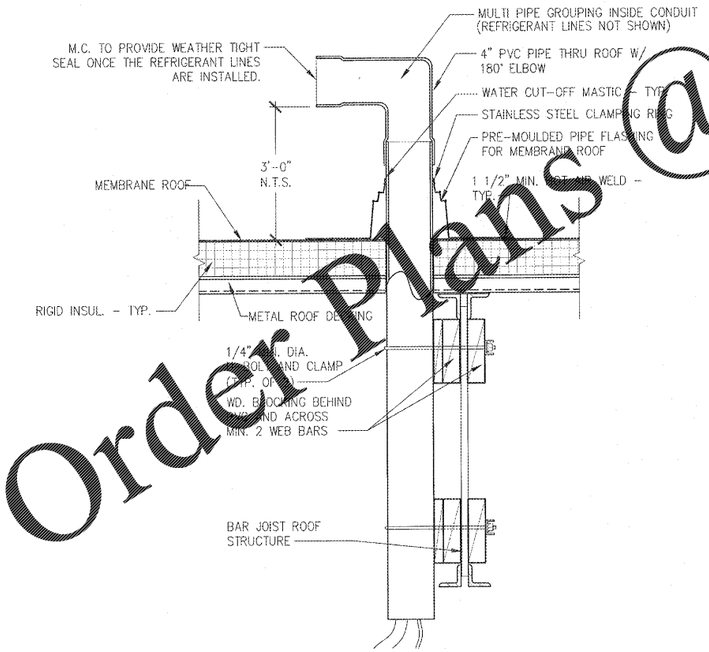
MARK	ROOF CURB	ECONOMIZER	MOTORIZED DAMPER	MANUAL DAMPER	GRAVITY EXH. (BAROMETRIC)	POWER EXHAUST	THERMOSTAT	TIME OVERRRIDE BUTTON	HUMIDITY SENSOR	FACTORY INST. DISCONNECT	FACTORY INST. W/HGR REC.	THRU-THE-BASE ELEC.	FRESH AIR TEMP. KIT	LOW AMBIENT COOLING	FACTORY INST. REHEAT COIL	SMOKE DETECTOR	FLUE EXTENSION KIT	COND. DRAIN PAN OVERFLOW SWITCH
RTU-1	14"	YES	YES	NO	YES	NO	NOTE 7	PROVIDE W/ T-STAT	NO	YES	YES	YES	YES	YES	NO	YES	NO	YES, NOTE 9
RTU-2	14"	YES	YES	NO	YES	NO	NOTE 7	PROVIDE W/ T-STAT	NO	YES	YES	YES	YES	YES	NO	YES	NO	YES, NOTE 9

NOTES:

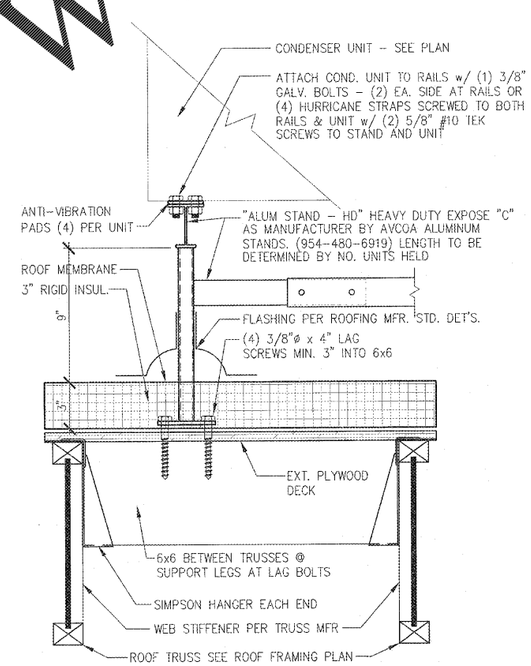
1. RTU-1, RTU-2 AND ALL ASSOCIATED ACCESSORIES SHALL BE FURNISHED BY THE LANDLORD.
2. RTUS SHALL BE PROVIDED WITH TWO SETS OF 2" DISPOSABLE FILTERS. ONE SET SHALL BE INSTALLED DURING CONSTRUCTION AND ONE SET SHALL BE INSTALLED BEFORE FINAL AIR BALANCE.
3. EXTERNAL STATIC PRESSURE INCLUDES SUPPLY AND RETURN AIR DUCTWORK. TOTAL STATIC PRESSURE INCLUDES EXTERNAL STATIC PRESSURE, WET COIL, AUX. HEATING COIL, AND ECONOMIZER.
4. INTEGRATED ECONOMIZERS ARE REQUIRED BY CODE FOR SPECIFIED UNITS IN THIS PARTICULAR LOCATION.
5. PROVIDE UNITS WITH DUAL ENTHALPY CONTROL AND BAROMETRIC RELIEF.
6. ANY SUBSTITUTION MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION. FOR PRICING ON THIS PACKAGE OR OTHER INFORMATION, CONTACT YOUR LOCAL TRANE OFFICE OR JO HOWARD WITH TRANE AT 919-232-5729.
7. PROVIDE WITH TRANE PROGRAMMABLE AUTO CHANGEOVER NIGHT SETBACK TOUCH SCREEN THERMOSTAT. LEAVE THERMOSTAT HANGING INSIDE THE SHELL SPACE.
8. ALL RTUS SHALL BE PROVIDED WITH FACTORY INSTALLED SMOKE DETECTORS IN THE RETURN SIDE OF THE UNIT.
9. PROVIDE EACH UNIT WITH FACTORY OPTION CONDENSATE DRAIN PAN OVERFLOW SWITCH.
10. PROVIDE RTU-1 AND RTU-2 WITH MULTI-SPEED INDOOR FAN SYSTEM.
11. PROVIDE RTU-2 WITH FACTORY INSTALLED CO2 SENSOR WIRING AND FIELD INSTALLED CO2 SENSOR. LEAVE CO2 SENSOR HANGING INSIDE THE SHELL SPACE.

EXHAUST FAN SCHEDULE

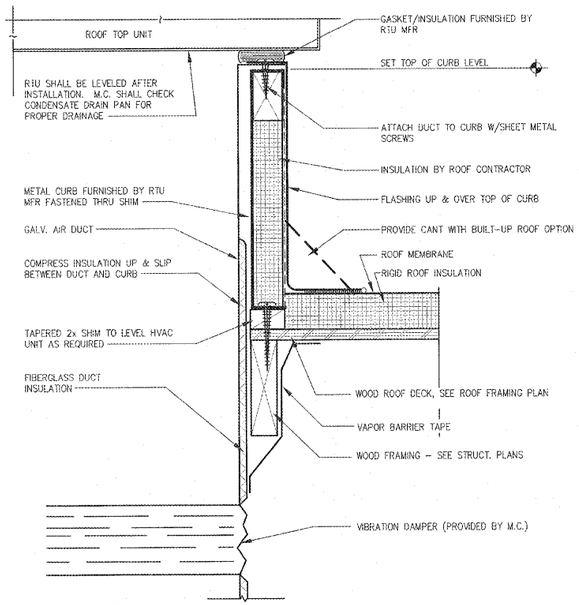
SYMBOL	MFGR	MODEL	CFM	EXT. SP	SERVING	ELECTRICAL H.P.	ELECTRICAL RPM	ELECTRICAL VOLT	ELECTRICAL PHASE	WEIGHT	REMARKS
EF-1	CAPTIVE AIRE	GRAVIFA	150	0.25	TOILETS	0.03	1,095	115	1	93	ROOF CURB, SOLID STATE SPEED CONT., DISC. SWITCH, , BACK DRAFT DAMPER, BIRDSCREEN)



3 / M501 REFRIGERANT CONDUIT PENETRATION DETAIL
SCALE: NONE



2 / M501 CONDENSER SUPPORT
SCALE: NONE



1 / M501 ROOF CURB DETAIL
SCALE: NONE

GENERAL NOTES

GENERAL CONSTRUCTION

1. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL SYSTEMS, EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS. ANY DEVIATION FROM THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE OWNER REPRESENTATIVE OR DESIGN ENGINEER. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. HOWEVER, ANY DEVIATION FROM THE DESIGN PLANS IMPLIED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THESE DESIGN PLANS SHALL NOT BE ALLOWED WITHOUT APPROVAL BY THE OWNER REPRESENTATIVE OR THE DESIGN ENGINEER.

2. THE GENERAL CONTRACTOR SHALL PROVIDE ALL ROOF OPENINGS. THE G.C. SHALL VERIFY SIZES AND LOCATIONS IN THE FIELD BEFORE ROOFING IS INSTALLED.

HVAC SYSTEMS & UNITS

3. THE RTU, ACCESSORIES, FILTERS, AND FANS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED ON PLANS. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AS REQUIRED PER PLAN INSTRUCTIONS.

4. THE MECHANICAL CONTRACTOR SHALL PROVIDE AN OPERATION AND MAINTENANCE MANUAL AND COMPLETE AS-BUILT DRAWINGS TO THE BUILDING OWNER UPON COMPLETION OF THE JOB. THE MANUAL SHALL INCLUDE BASIC DATA RELATING TO THE OPERATION AND MAINTENANCE OF NEW HVAC SYSTEMS AND EQUIPMENT AS WELL AS NAMES AND ADDRESSES OF QUALIFIED SERVICE AGENCIES. RECOMMENDED PREVENTIVE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. HVAC CONTROL DIAGRAMS, SCHEMATICS, CONTROL SEQUENCE DESCRIPTIONS, AND CALIBRATION INFORMATION SHALL BE INCLUDED. DESIRED OR FIELD DETERMINED SET POINTS MUST BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS IN PROGRAMMING COMMENTS. THE MANUAL SHALL INCLUDE A COPY OF THE CONTROL SYSTEM TESTING REPORT AND A COPY OF THE AIR BALANCE REPORT.

5. THE MECHANICAL CONTRACTOR SHALL INSTALL EQUIPMENT AND ALL ACCESSORIES IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS FURNISHED WITH THE EQUIPMENT, INCLUDING BUT NOT LIMITED TO:

- ALL EXTERNAL DUCT WORK.
- REMOVE ALL SHIPPING TIE-DOWN AND SHIPPING BLOCKS.
- INSTALL ALL BLOWER BELTS AND ACCESSORIES.
- INSTALL ALL EXTERNAL CONTROLLING DEVICES, SUCH AS THERMOSTATS AND DUCT SENSORS.
- POWER, CONTROL WIRING AND FUEL PIPING TO BE PERMANENTLY INSTALLED AND CONNECTED TO THE EQUIPMENT.
- ALL SPLIT SYSTEMS MUST BE PIPED AND CHARGED COMPLETELY (WHERE APPLICABLE).
- ALL COMPRESSORS WHICH UTILIZE CRANKCASE HEATERS MUST HAVE HEATER ENERGIZED FOR 24 HOURS BEFORE STARTING EQUIPMENT.
- COMPLETE START-UP, TEST AND RUN OF ALL UNITS AT LEAST 24 HOURS PRIOR TO THE E.O.C.
- ALL FILTERS MUST BE INSTALLED AND CLEAN.
- CHECK THAT ALL NEW RTU'S HAVE BEEN NUMBERED IN THE FIELD AS SHOWN ON PLANS (I.E. RTU#1, RTU#2 ETC.).

6. THE MECHANICAL CONTRACTOR SHALL NOT SCALE THE DRAWINGS FOR RTU AND FAN SIZES. THE MECHANICAL CONTRACTOR SHALL OBTAIN THE LATEST SHOP DRAWINGS FROM THE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AND USE IT FOR ACTUAL DIMENSIONS.

POWER & WIRING

7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED (POWER) FIELD WIRING FOR PROPER OPERATION OF ALL MECHANICAL SYSTEMS.

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LMHT ENGINEER LICENSE NUMBER - C-1369

PROJECT: *STARBUCKS SHELL BUILDING*
350 BLOWING ROCK BOULEVARD
LENOIR, NC 28645

DRAWING: MECHANICAL DETAILS AND SCHEDULES

Revisions

REVISION DATE

PROJECT DATE 03/26/2019

Drawn By RJB

Checked By MJM

Sheet No. M501