

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PRESCRIPTIVE ENERGY COST BUDGET

THERMAL ZONE 3A

EXTERIOR DESIGN CONDITIONS
 WINTER DRY BULB 15 °F
 SUMMER DRY BULB 89 °F

INTERIOR DESIGN CONDITIONS
 WINTER DRY BULB 70 °F
 SUMMER DRY BULB 78 °F
 RELATIVE HUMIDITY 50 %

BUILDING HEATING LOAD 92,480 BTU/HR
 BUILDING COOLING LOAD 9.6 TONS

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY DESCRIPTION OF UNIT PACKAGED GAS
 W/ ELECTRIC COOLING

HEATING EFFICIENCY 90%
 COOLING EFFICIENCY 12.6 SEER
 HEATING OUTPUT OF UNIT 216,000 BTU/HR
 COOLING OUTPUT OF UNIT 12 TONS

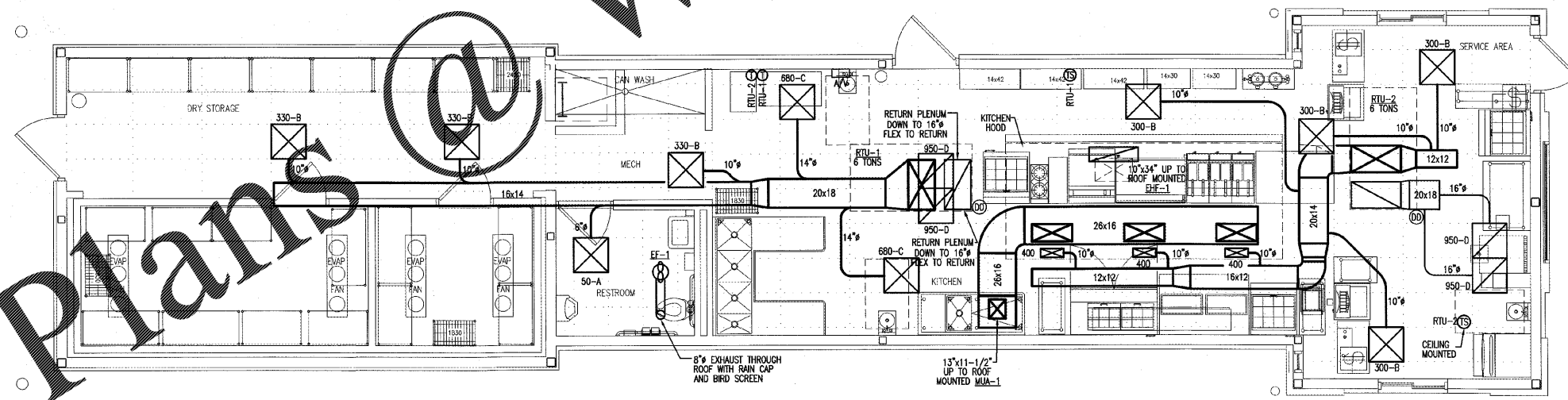
LIST EQUIPMENT EFFICIENCIES

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEM)
 MOTOR HORSEPOWER _____ HP
 NUMBER OF PHASES _____
 MINIMUM EFFICIENCY _____ %
 MOTOR TYPE _____
 # OF POLES _____

DESIGNER STATEMENT:
 TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF NORTH CAROLINA STATE BUILDING CODES.

SYMBOLS & ABBREVIATIONS LEGEND

SYMBOL	DESCRIPTION
Ⓢ	PROGRAMMABLE THERMOSTAT (SEE NOTE 6)
⊠	CEILING SUPPLY DIFFUSER
⊡	CEILING RETURN GRILLE
⊞	SUPPLY DUCT SECTION
⊟	RETURN DUCT SECTION
CFM	CUBIC FEET PER MINUTE
---	NATURAL GAS
∩	UNION
∅	DIAMETER OR POWER PHASE
O.A.	OUTSIDE AIR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
A.F.F.	ABOVE FINISHED FLOOR
⊕	EXHAUST FAN
Ⓢ	DUCT MOUNTED SMOKE DETECTOR
Ⓢ	T-STAT TEMPERATURE SENSOR, REMOTE, HONEYWELL COMPATIBLE WITH THE HONEYWELL VISION PRO SERIES 8000 T-STAT
A/V	AUDIO/VISUAL SIGNALING APPLIANCE, CONNECTED TO DUCT MOUNTED SMOKE DETECTOR



MECHANICAL PLAN
 M-1 SCALE: 1/4" = 1'-0"

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DRAWING NAME:
MECHANICAL PLAN

PROFESSIONAL SEAL 25043
 ENGINEER
 G. KEVIN FANNEY
 1/17/2018

DRAWN
 MRS

DATE
 1/17/18

SCALE
 AS NOTED

JOB NO.
 17116

SHEET
M-1