ABBREVIATIONS

- AD -- ACCESS DOOR
- AFF -- ABOVE FINISHED FLOOR
- AHU -- AIR HANDLING UNIT
- BDD -- BACKDRAFT DAMPER
- BOD -- BOTTOM OF DUCT
- CF -- CEILING FAN
- CU -- CONDENSING UNIT
- DG -- DOOR GRILLE
- DAC -- DOOR AIR CURTAIN
- E -- EXISTING
- EA -- EXHAUST AIR
- EAT -- ENTERING AIR TEMPERATURE
- EE -- EXISTING EXHAUST
- EF -- EXHAUST FAN
- EG -- EXHAUST GRILLE
- EMS -- ENERGY MANAGEMENT SYSTEM
- ER -- EXISTING RETURN
- ES -- EXISTING SUPPLY
- EUH -- ELECTRIC UNIT HEATER
- EWH -- ELECTRIC WALL HEATER
- GALV -- GALVANIZED
- GC -- GENERAL CONTRACTOR
- H -- KITCHEN EXHAUST HOOD
- IMC -- INTERNATIONAL MECHANICAL CODE
- I/O -- INPUT OUTPUT CONTROL
- LAT -- LEAVING AIR TEMPERATURE
- LP -- LOUVERED PENTHOUSE
- NFPA -- NATIONAL FIRE PROTECTION ASSOCIATION
- MAU -- MAKEUP AIR UNIT
- N -- NEW
- NI -- NEGATIVE IONIZER
- NIMC -- NOT IN MECHANICAL CONTRACT
- NTS -- NOT TO SCALE
- OA -- OUTDOOR AIR
- R -- RETURN GRILLE
- RA -- RETURN AIR
- RTC -- ROOF TOP CONTROL
- RTU -- ROOF TOP UNIT
- S -- SUPPLY DIFFUSER
- SA -- SUPPLY AIR
- SS -- STAINLESS STEEL
- TG -- TRANSFER GRILLE
- TOD -- TOP OF DUCT
- VCD -- VOLUME CONTROL DAMPER
- UH -- UNIT HEATER
- VIF -- VERIFY IN FIELD

LEGEND

- KEYED NOTE
- THERMOSTAT
- THERMOSTAT WITH LOCKING COVER
- CPC EMS TEMPERATURE SENSOR
- CPC EMS HUMIDITY SENSOR
- CPC EMS DEW POINT SENSOR
- FAN ON/OFF SWITCH
- DUCT MOUNTED SMOKE DETECTOR
- DOOR AIR CURTAIN MICROSWITCH CONTROLLER
- HOOD FIRE SUPPRESSION SYSTEM MANUAL PULL STATION
- AIR DEVICE (REFER TO SCHEDULE)
- XXX-# EQUIPMENT MARK NUMBER (REFER TO SCHEDULE)
- RETURN ROUND DUCT UP
- SUPPLY ROUND DUCT UP
- SUPPLY ROUND DUCT DOWN
- RETURN ROUND DUCT DOWN
- ROUND ELBOW
- ROUND LOLOSS TEE
- 45° ROUND LATERAL
- ROUND REDUCING BULLHEAD TEE WITH VANES
- ROUND SPIRAL DOUBLE WALL DUCT
- ROUND REDUCING WYE BRANCH
- VCD VOLUME CONTROL DAMPER
- SQUARE TO ROUND CONNECTION
- SUPPLY RECTANGULAR DUCT UP
- RETURN RECTANGULAR DUCT UP
- SUPPLY RECTANGULAR DUCT DOWN
- RETURN RECTANGULAR DUCT DOWN
- RECTANGULAR BULLHEAD TEE WITH TURNING VANES
- RECTANGULAR ELBOW WITH TURNING VANES
- RECTANGULAR RADIUS ELBOW
- FLEXIBLE DUCT MAXIMUM 5'-0"
- CONDENSATE LINE
- 1" DOOR UNDERCUT (FURNISHED WITH DOOR)
- BD BACKDRAFT DAMPER
- CONNECT NEW TO EXIST
- EXISTING TO REMOVE
- EXISTING DUCT, FITTINGS AND EQUIPMENT TO REMAIN

DEMOLITION GENERAL NOTES:

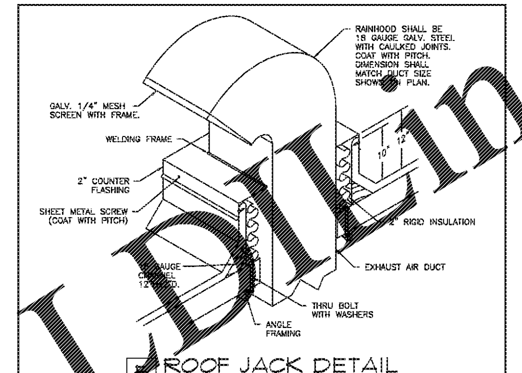
1. THE DEMOLITION PLANS WERE DERIVED FROM EXISTING BUILDING PLANS AND SITE VISITS AND ARE INTENDED TO REASONABLY REPRESENT EXISTING CONDITIONS. HOWEVER, ACTUAL CONDITIONS MAY DEVIATE FROM THAT SHOWN ON THE DRAWINGS. THE DEMOLITION KEY NOTES IDENTIFY SPECIFIC AREAS OF WORK BUT MAY NOT BE COMPLETE IN IDENTIFICATION OF ALL REMOVALS REQUIRED FOR INSTALLATION OF NEW WORK. THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS AND COORDINATE THE DEMOLITION WITH NEW WORK SO THAT DEMOLITION IS COMPLETE AS REQUIRED TO NOT OBSTRUCT PROPER EXECUTION OF THE CONTRACT WORK.
2. COORDINATE DEMOLITION/REMOVAL OF EXISTING HVAC EQUIPMENT/SYSTEMS WITH GENERAL CONTRACTOR AND WHOLE FOODS PROJECT MANAGER TO MAINTAIN SYSTEMS OPERATIONAL AS REQUIRED TO ALLOW UNINTERRUPTED STORE OPERATIONS DURING THE COURSE OF THE RENOVATION.

DEMOLITION KEYED NOTES:

- 01 REMOVE EXISTING CURB MOUNTED GRAVITY INTAKE VENT CAP. EXISTING CURB TO REMAIN FOR INSTALLATION OF NEW GOOSENECK GRAVITY OUTSIDE AIR INTAKE DUCT. SEE RENOVATION PLAN FOR NEW GOOSENECK.
- 02 GENERAL CONTRACTOR TO REMOVE EXISTING ROOFING AT AREA OF EXISTING 25" X 19" DUCT AS INDICATED TO ALLOW FOR THE INSTALLATION OF A NEW ROOF CURB AND NEW GOOSENECK GRAVITY OUTSIDE AIR INTAKE DUCT. EXACT LOCATION OF EXISTING ROOF CURB TO BE COORDINATED WITH THE EXISTING ABANDONED 25" X 19" INTAKE DUCT LOCATED AT THE CEILING OF THE EXISTING STORAGE ROOM TO ALLOW FOR CONNECTION TO THE EXISTING DUCT. SEE RENOVATION PLAN FOR NEW GOOSENECK.
- 03 EXISTING 18" X 18" CAPPED OUTSIDE AIR INTAKE DUCT TO REMAIN FOR CONNECTION TO NEW ROOF MOUNTED GOOSENECK INTAKE DUCT AND NEW 18" X 18" INTAKE DUCT SERVING THE NEW MOTOR ROOM. SEE RENOVATION PLAN FOR NEW DUCT CONNECTION.

HVAC SHEET LIST

DRAWING NUMBER	DRAWING TITLE
M101	HVAC PLANS, DETAILS, LEGEND AND ABBREVIATIONS



5 ROOF JACK DETAIL
SCALE: NOT TO SCALE

GENERAL NOTES

A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL HVAC WORK IS PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH REQUIREMENTS FOR THIS LOCATION.

B. DO NOT SCALE FROM THESE DRAWINGS.

C. FIELD VERIFY AND COORDINATE THE INSTALLATION OF ALL HVAC EQUIPMENT AND MATERIAL WITH OTHER MECHANICAL, BUILDING STRUCTURE, REFRIGERANT LINES, SPRINKLER PIPING, ELECTRICAL CONDUIT/LIGHTS AND DECOR ELEMENTS.

D. THE FINISH AND COLOR OF THE AIR DEVICES, AND ALL OTHER EXPOSED HVAC EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECT.

E. COORDINATE AIR DEVICE LOCATIONS WITH THE REFLECTED CEILING PLAN AND ALL OTHER MECHANICAL, ELECTRICAL, SPRINKLER, ARCHITECTURAL, STRUCTURE AND OTHER INTERIOR DECOR FEATURES.

F. DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE REVIEWED BY ENGINEER.

G. DURING CONSTRUCTION, PROVIDE TEMPORARY FILTER MEDIA OVER ALL RETURN GRILLES TO KEEP OUT DUST AND DEBRIS.

H. ALL DUCT SIZES SHOWN ARE FREE INSIDE DIMENSIONS. ALLOWANCE SHALL BE MADE FOR SPECIFIED INSULATION OR DUCT LINER THICKNESS.

I. TEST AND BALANCE AND COMMISSIONING OF HVAC SYSTEMS SHALL BE PROVIDED BY OWNER. THE HVAC CONTRACTOR SHALL PROVIDE THE SERVICES OF AN ON SITE MECHANIC TO ASSIST THE TEST AND BALANCE AND COMMISSIONING AGENT AS REQUIRED TO MAKE CHANGES IN PULLEYS, BELTS AND DAMPERS OR PROVIDE ADDITIONAL DAMPERS AS REQUIRED FOR CORRECT BALANCE OF HVAC SYSTEMS AT NO ADDITIONAL COST TO THE OWNER. REPLACE ALL DIRTY FILTERS PRIOR TO STARTING TEST AND BALANCE.

J. ALL ACCESS DOORS REQUIRED IN GENERAL CONSTRUCTION ARE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO IDENTIFY SIZE, TYPE AND LOCATION OF SUCH DOORS FOR THE PROPER ACCESS TO CONCEALED HVAC EQUIPMENT, VALVES AND OTHER RELATED EQUIPMENT. THE HVAC CONTRACTOR SHALL IDENTIFY THESE REQUIREMENTS ON A COORDINATED SHOP DRAWING PRIOR TO SYSTEM FABRICATION AND INSTALLATION.

K. COORDINATE THE SIZES AND LOCATIONS OF HVAC EQUIPMENT, CURBS AND ROOF OPENINGS WITH STRUCTURAL STEEL.

L. RE-BALANCE EXISTING MOTOR ROOM EXHAUST FAN AIR QUANTITIES TO NEW AIR QUANTITIES AS INDICATED ON PLAN AND AIR BALANCING SCHEDULE.

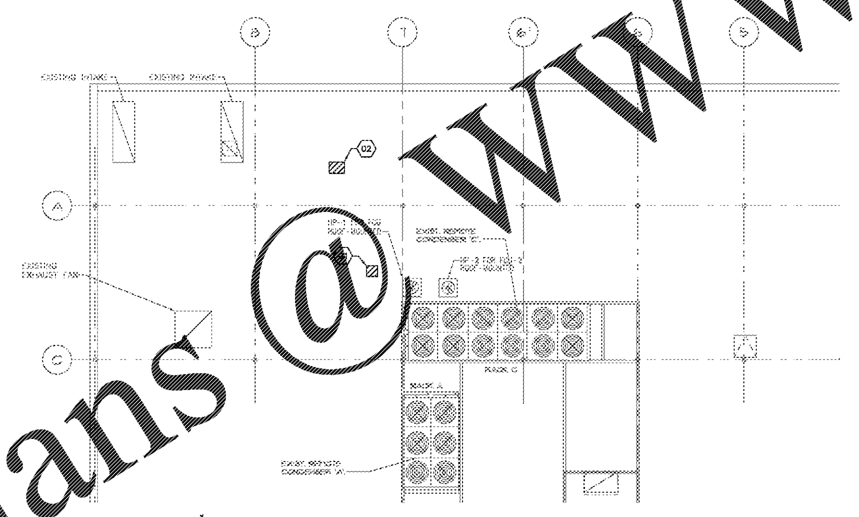
M. PROVIDE POSITIVE SEISMIC DESIGN CATEGORY "C" AND 130 MPH HURRICANE FORCE WIND RESTRAINTS ON ALL MECHANICAL SYSTEMS AND COMPONENTS AS REQUIRED BY THE 2018 INTERNATIONAL BUILDING CODE AND BY THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE CALCULATIONS TO DETERMINE RESTRAINT LOADING FOR SPECIFIC EQUIPMENT TO BE INSTALLED RESULTING FROM SEISMIC OR WIND LOADING FOR SUCH EQUIPMENT. SEISMIC AND WIND RESTRAINT CALCULATIONS SHALL BE SIGNED BY A LICENSED PROFESSIONAL ENGINEER.

N. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE ASHRAE, NFPA AND SMACNA GUIDE RECOMMENDATIONS.

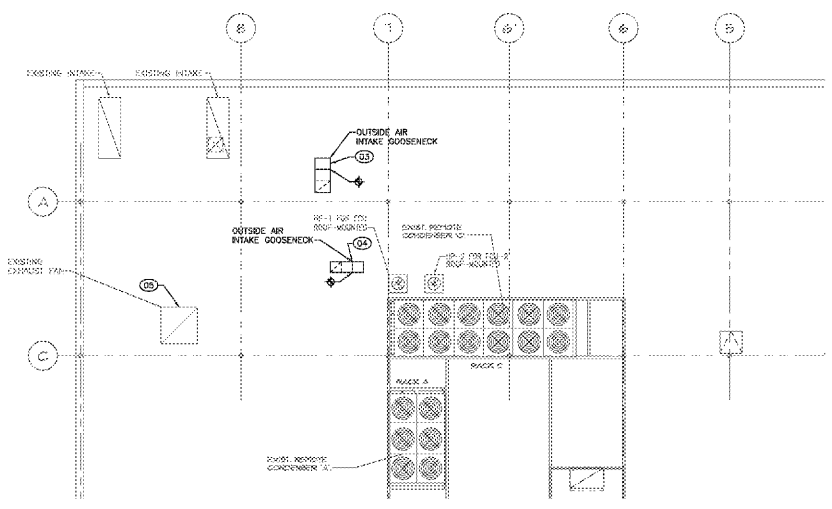
KEYED NOTES

- 01 CONNECT TO EXISTING 18" X 18" DUCT UP TO ROOF AND PROVIDE NEW 18" X 18" OUTSIDE AIR INTAKE DUCT THROUGH NEW MOTOR ROOM WALL AS INDICATED. COVER NEW INTAKE DUCT WITH WIRE MESH SCREEN.
- 02 EXISTING 25" X 19" OUTSIDE AIR INTAKE DUCT TO BE CONNECTED TO NEW ROOF MOUNTED 25" X 19" OUTSIDE AIR INTAKE GOOSENECK. SEE ROOF PLAN.
- 03 PROVIDE NEW 25" X 19" OUTSIDE AIR INTAKE GOOSENECK AND ROOF CURB. FIELD VERIFY THE LOCATION OF THE EXISTING DUCT AND COORDINATE THE LOCATION OF THE NEW CURB AND GOOSENECK DUCT WITH THE LOCATION OF THE EXISTING DUCT. SEE GOOSENECK DETAIL THIS SHEET.
- 04 PROVIDE NEW 18" X 18" OUTSIDE AIR INTAKE GOOSENECK ON EXISTING CURB. SEE GOOSENECK DETAIL THIS SHEET.
- 05 EXISTING MOTOR ROOM EXHAUST FAN TO REMAIN. REBALANCE EXISTING FAN TO 17,000 CFM.
- 06 PROVIDE NEW THERMOSTAT INTERLOCKED WITH EXISTING MOTOR ROOM THERMOSTAT AND EXISTING MOTOR ROOM FAN TO ACTIVATE FAN IF EITHER THERMOSTAT CALLS FOR COOLING VIA CPC CONTROLS.
- 07 18x18 DUCT, CONNECT TO EXISTING DUCT AND EXTEND THROUGH NEW WALL TOAND COVERWITH WIRE MESH SCREEN.

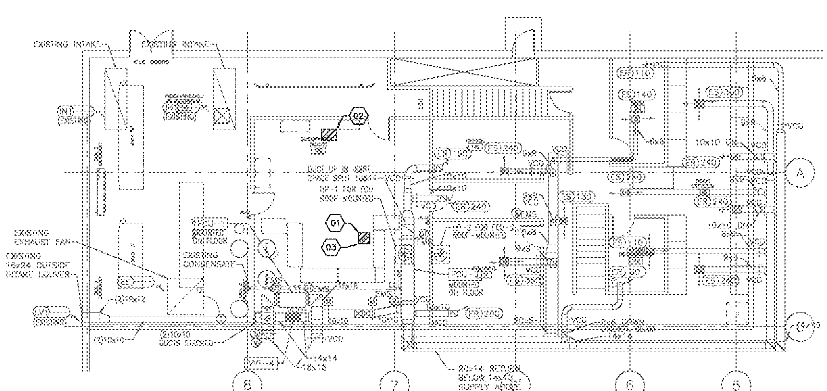
MACHINE ROOM VENTILATION REQUIREMENT SCHEDULE (PER 2018 INTERNATIONAL MECHANICAL CODE)			
APPLICATION	LARGEST SYSTEMS/LBS REFRIGERANT	CFM REQUIRED = 100 X √ LBS. REFRIGERANT	EXHAUST/MAKEUP CFM SUPPLIED
MACHINE ROOM	RACK "C"/1800 LBS	4,243	17,000



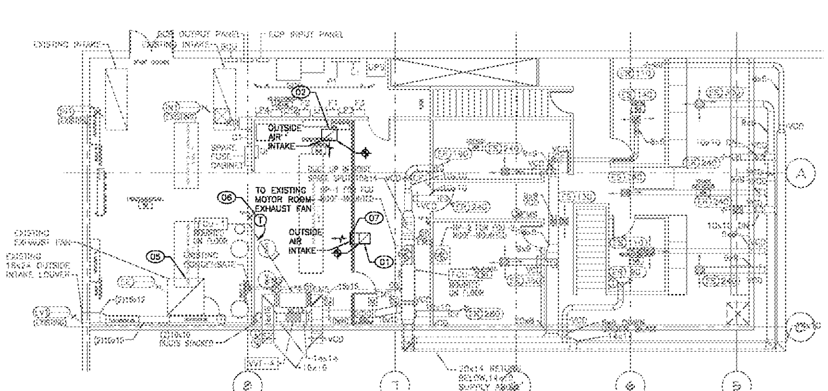
2 HVAC DEMOLITION PART ROOF PLAN
SCALE: 1/8"=1'-0"



4 HVAC RENOVATION PART ROOF PLAN
SCALE: 1/8"=1'-0"



1 HVAC DEMOLITION MEZZANINE PLAN
SCALE: 1/8"=1'-0"



3 HVAC RENOVATION MEZZANINE PLAN
SCALE: 1/8"=1'-0"

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WHOLE FOODS MARKET

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WHOLE FOODS MARKET
REFRIGERATION RACK UPGRADE
PATRIOTS PLAZA SHOPPING CENTER
923 HOUSTON NORTHCUTT BOULEVARD
MT. PLEASANT, SOUTH CAROLINA 29464

PLOT DATE: JUNE 22, 2020
ISSUED: JUNE 22, 2020 FOR CONSTRUCTION

DRAWN BY:	APPROVED:
KEM	MS/JSP
PROJECT NO.: 20040	RECORD:

CONTENTS: HVAC PLANS, DTLS, LEGEND & ABBREVIATIONS

SHEET: M-101
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