



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

MECHANICAL GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE, 2009 INTERNATIONAL MECHANICAL CODE, NATIONAL ELECTRICAL CODE, ALABAMA ENERGY CODE, ALL NFPA REQUIREMENTS AND ALL LOCAL CODES.
 - ALL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, PROTECTION, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL BE REQUIRED TO FURNISH, INSTALL AND CONNECT WITH NECESSARY SERVICES ALL ITEMS SHOWN ON THE DRAWING AT NO ADDITIONAL COST TO OWNER.
 - FURNISH SIX (6) COPIES OF SHOP DRAWINGS FOR EQUIPMENT OR FITTINGS FOR APPROVAL PRIOR TO PURCHASING.
 - PRIOR TO SUBMITTING ANY WORK, THE CONTRACTOR SHALL HAVE REVIEWED AND COMPARED THE CONTRACT DOCUMENTS WITH EXISTING PROPOSED CONDITIONS AND NOT LATER THAN TEN (10) DAYS PRIOR TO THE BIDDING OPENING SHALL REPORT TO THE ENGINEER ANY ERROR, INCONSISTENCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS.
 - TEST AND BALANCE REPORT SHALL BE PROVIDED BY THE MECHANICAL SUBCONTRACTOR WITH A WRITTEN REPORT PROVIDED TO THE ARCHITECT AND ENGINEER AT COMPLETION OF PROJECT. AIRSIDE BALANCE AND CAPACITY CHECKS SHALL BE RUN ON ALL SYSTEMS. THE WRITTEN REPORT SHALL BE ON FILE AS RECOMMENDED BY AIA.
 - COPIES OF THE MECHANICAL SUBCONTRACTOR'S FIRST YEAR GUARANTEE FOR THE INSTALLATION SHALL BE PROVIDED TO THE OWNER. NOTATION SHALL BE MADE TO SHOW THE EXPIRATION OF THE FIRST YEAR PARTS AND LABOR GUARANTEE AND THE EXTENDED FOUR (4) YEAR COMPRESSOR WARRANTY.
- DEVIATION FROM MATERIALS, METHODS OR PROCEDURES SET FORTH HEREIN MUST BE APPROVED BY THE ENGINEER, IN WRITING, PRIOR TO BID OR COMMENCEMENT OF WORK.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL COST INCURRED BY ANY TRADE DUE TO THE SUBSTITUTION OF MECHANICAL EQUIPMENT. ANY CHANGES SHALL BE COORDINATED WITH THE TRADES INVOLVED.

MECHANICAL EQUIPMENT

- ALL AIR CONDITIONING EQUIPMENT SHALL BE FACTORY PACKAGED STRAIGHT COOL WITH HEAT.
 - ALL AIR CONDITIONING UNITS SHALL INCLUDE A ONE (1) YEAR WARRANTY AND EXTENDED FOUR (4) YEAR COMPRESSOR WARRANTY.
 - FILTERS SHALL BE PROVIDED IN THE UNITS. THE FACTORY FILTER SHALL BE USED DURING CONSTRUCTION AND A NEW SET OF REPLACEABLE MEDIA, IN METAL FILTER FRAMES, SHALL BE PROVIDED JUST PRIOR TO TEST AND BALANCE.
 - ALL UNITS SHALL BE PROVIDED WITH A FACTORY CURB. CURBS SHALL BE SET LEVEL ON TOP, WITH LEVEL STRUCTURAL STEEL SUPPORT FRAMES PROVIDED BY THE STRUCTURAL STEEL SUBCONTRACTOR.
 - ELECTRICAL POWER AND CONTROL CONDUITS SHALL RISE UP INSIDE THE CURB OF THE ROOF TOP UNIT.
 - ROUTE CONDENSATE PIPING AS SHOWN ON PLANS.
- CONDENSATE PIPING**
- EXTERIOR CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC WITH UV INHIBITOR RATED FOR EXTERIOR USE.
- DUCTWORK**
- SUPPLY AND RETURN DUCTWORK SHALL BE TYPE 800 FIBERGLASS EQUAL TO JOHNS-MANVILLE "MICRO-AIRE". DUCT SHALL BE 1-1/2" THICK WITH AN INSULATION VALUE EQUAL TO R-6. SEAL ALL JOINTS WITH MASTIC.
 - EXHAUST AIR DUCTWORK SHALL BE GALVANIZED SHEET STEEL WITH ALL JOINTS SEALED WITH MASTIC. ROUND EXHAUST DUCTWORK SHALL BE ALUMINUM "THERMO-IMP" OR SINGLE WALL ROUND SHEET METAL. EXHAUST AIR DUCTS DO NOT NEED TO BE INSULATED UNLESS REQUIRED BY LOCAL ORDINANCE.
 - ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA REQUIREMENTS.

- ALL DUCTS SHOWN ARE INSIDE CLEAR DIMENSIONS.
 - SIZING OF DUCT SHALL BE BASED ON 0.08"/100 FT. EQUAL FRICTION FOR SUPPLY DUCTWORK AND A MAXIMUM 800 FPM VELOCITY FOR THE RETURN DUCTWORK.
 - FLEXIBLE DUCT SHALL NOT BE ALLOWED EXCEPT FOR FINAL DIFFUSER RUNOUTS.
 - HOLD THE BOTTOM OF THE SUPPLY AIR DUCT AT A MAXIMUM OF 24" ABOVE HUNG CEILING FOR ACCESSIBILITY PURPOSES.
 - PROVIDE FLEXIBLE CONNECTION FROM EACH DUCTWORK CONNECTION TO AIR HANDLERS AND FANS.
 - ALL FLEXIBLE BRANCH CONNECTIONS SHALL HAVE A MANUAL VOLUME DAMPER INSTALLED AT MAIN TRUNK FOR BALANCING PURPOSES.
- CONTROLS**
- THERMOSTATS SHALL BE BY UNIT MANUFACTURER. ALL THERMOSTATS SHALL HAVE STAGES OF COOLING AND HEATING TO MATCH SPECIFIED UNIT AND SHALL BE 7-DAY PROGRAMMABLE.
 - LOCATE ALL THERMOSTATS 4'-0" A.F.F. UNLESS OTHERWISE NOTED. EXACT LOCATION OF ALL THERMOSTATS SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER.
 - EXHAUST FANS SHALL BE CONTROLLED AS NOTED ON THE EXHAUST FAN SCHEDULE.

KEY NOTES:

- PROVIDE AND INSTALL NEW PACKAGED ROOFTOP UNIT. COORDINATE LOCATION OF UNIT WITH STRUCTURAL DRAWINGS.
- RTU CONDENSATE TO BE PIPED TO ROOF DOWNSPOUT. PROVIDE FIRE SUPPORT ON PROTECTION PADS ADHERED TO ROOF MEMBRANE (TYP.). FINAL TERMINATION SHALL BE SITE STORM SEWER SYSTEM.
- 6" STEEL DUCT THROUGH ROOF TO SCREENED ROOF CAP. INSTALL ROOF CAP 10'-0" (MIN.) FROM OUTDOOR AIR INTAKES.
- PROVIDE AND INSTALL BACK DRAFT DAMPER EQUAL IN SIZE TO L-1.
- COORDINATE LOCATION OF FAN WITH STRUCTURAL DRAWINGS.

MECHANICAL LEGEND

SUPPLY DIFFUSER	VOLUME DAMPER	RETROGRAD PIPING (REP)	CONDENSATE PIPING (COND)	CLEANOUT (CO)	THERMOSTAT
RETURN GRILLE	EXHAUST GRILLE	FLEXIBLE DUCT	RIGID DUCT	DUCT UP	ROOF CAP
1-2	3-4	5-6	7-8	9-10	11-12

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1801 South Keane Rd.
Clearwater, FL 33756

PROJECT NAME
Retail @ Tattersall Park
US Highway 280 & Highway 119
Hoover, AL

Revision Schedule	
No.	Date
A	06-07-18
B	06-07-18

PROJECT NO.	51222
DATE	07-27-18
DRAWN BY	JR
CHECKED BY	JR

SHEET TITLE
Mechanical Plan

Job Number: 51222
Colwell Engineering
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