

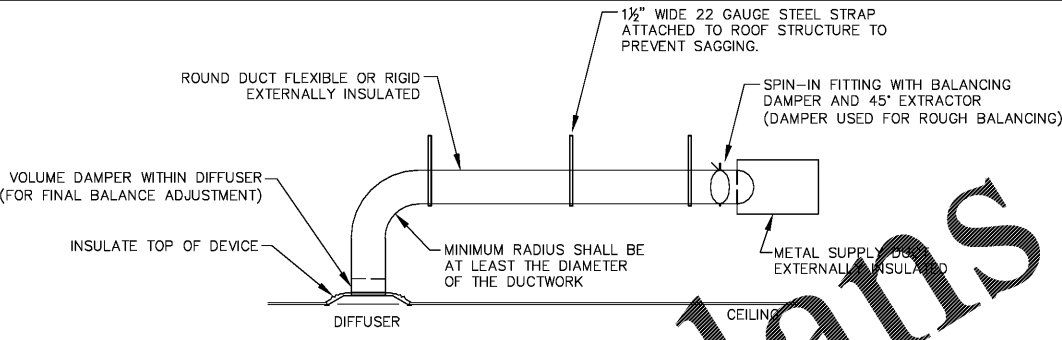
HVAC SYMBOL LEGEND

| | |
|-----|-----------------------|
| ☒ | CEILING DIFFUSER |
| ☒ | CEILING RETURN GRILLE |
| ☒ | CEILING EXHAUST |
| ☒ | AIR TRANSFER GRILLE |
| ☒ | FIRE DAMPER |
| ☒ | MANUAL DAMPER |
| ○ | THERMOSTAT |
| CFM | CUBIC FEET PER MINUTE |
| OA | OUTSIDE AIR |
| RA | RETURN AIR |
| SA | SUPPLY AIR |
| EFG | EXHAUST FAN GRILL |
| AC | ABOVE CEILING |
| | FLEX DUCT |
| ▨ | SHEETMETAL DUCT |

- GENERAL NOTES:**
- ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
 - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.
 - THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.
 - THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THE MECHANICAL DRAWINGS UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHALL BE UL LISTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.
 - ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.
 - EACH UNIT GENERATING CONDENSATE SHALL BE PROVIDED WITH A CONDENSATE DRAIN WITH EXTERNAL "P" DE P-TRAP. EXTEND DRAIN TO A ROOF MOUNTED SPLASH PAD OR AN ACCEPTABLE LOCATION REQUIRED BY CODE.
 - DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSION.
 - ALL METAL DUCT AND AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-6 DENSITY FOLDED INSULATION WITH FIRE AND SMOKE RATING 25-50).
 - ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, SEALED, AND INSULATED PER THE LATEST EDITION OF SMACNA LOW-VELOCITY DUCT MANUAL.
 - UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS SHALL HAVE A MANUAL VOLUME CONTROL DAMPER.
 - ALL FLEX DUCT SHALL BE UL LISTED, R-6, FOIL-BASED, CLASSIFIED AS APPROX 1 AIR DUCT. MAXIMUM LENGTH IS TO BE 12'-0" PER DROP OR PER LOCAL CODE.
 - THE CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.
 - THE CONTRACTOR SHALL MAKE ALL LOW-VOLTAGE WIRING CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING FUTURE CONTROLS, ROOM SENSORS, SMOKE DETECTORS AND CONTACTOR PANEL.
 - PROVIDE AND INSTALL SMOKE DETECTORS IN EACH AIR CONDITIONING UNIT RETURN DUCT GREATER THAN 2000 CFM. CONTRACTOR SHALL PROVIDE INTERCONNECTION AND WIRE TO THE FIRE ALARM CONTROL PANEL IF REQUIRED. DETECTORS SHALL HAVE REMOTE TEST STATIONS LOCATED IN THE OFFICE NEAR THE RESPECTIVE THERMOSTATS. VERIFY CODE REQUIREMENTS FOR DUCT DETECTORS IN BOTH THE SUPPLY AND RETURN AIR STREAMS.
 - THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.
 - ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL, UPON COMPLETION OF PROJECT, PERFORM A COMPLETE TEST AND BALANCE OF ALL EQUIPMENT. PROVIDE A WRITTEN REPORT TO THE ARCHITECT. ALL CAPACITIES MUST BE SET TO WITHIN ±10% OF AMOUNTS INDICATED ON THE FLOOR PLAN AND SCHEDULES.

- KEYED NOTES:**
- CONNECT AIR DISTRIBUTION DUCT TO AIR HANDLING EQUIPMENT AS NECESSARY. PROVIDE TRANSITION IN CURB AS REQUIRED FOR UNIT CONNECTION.
 - EXHAUST FOR OVENS AND TOASTERS. HOOD IS REQUIRED AT THE SANDWICH STATION. HOOD IS OPTIONAL AT THE BACK OF HOUSE OVEN. IF A HOOD IS REQUIRED FOR OVEN BY LOCAL JURISDICTION PROVIDE TYPE-II "HEAT ONLY" HOOD. RUN SHEETMETAL DUCT FROM CONNECTION ON HOOD TO RESPECTIVE EXHAUST FAN. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. VERIFY DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION. USE FACTORY-MANUFACTURED PIPE AND FITTINGS ONLY. VERIFY LOCATION ON SITE WITH MOST RECENT KITCHEN PLANS.
 - PROVIDE PROGRAMMABLE THERMOSTAT WITH LOCKING COVER. LOCATE THERMOSTAT IN MANAGER'S OFFICE. PROVIDE REMOTE SENSOR LOCATED 72" ABOVE FINISHED FLOOR NEAR LOCATION INDICATED. SEAL WALL OPENINGS WITH CAULK. COORDINATE LOCATION ON SITE WITH GENERAL CONTRACTOR AND EQUIPMENT. AVOID LOCATING NEAR OR ABOVE SOURCES OF HEAT.
 - CONCENTRIC VENT LINE FOR COMBUSTION AIR INTAKE / EXHAUST FROM GAS FIRED EQUIPMENT TO EXTERIOR TERMINATION KIT. ROUTE PIPING FROM RESPECTIVE UNIT TO EXTERIOR LOCATION. ROUTE PIPING WITH MINIMAL AMOUNT OF BENDS AND MINIMUM LENGTH AS REQUIRED BY RESPECTIVE UNIT MANUFACTURER'S REQUIREMENTS.
 - TOILET ROOM EXHAUST AIR DUCT TO SIDEWALL EXHAUST FAN WITH INSECT SCREEN.
 - HOOD CONTROLLER UNIT. COORDINATE WITH CAPTIVE AIRE ON THE REQUIRED LOCATION AND CONNECTION REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL CONNECTIONS.
 - ROOM TEMPERATURE SENSOR FOR THE CONTROL OF THE HOODS. COORDINATE WITH CAPTIVE AIRE ON THE REQUIRED LOCATION AND CONNECTION REQUIREMENTS.

1 AIR DISTRIBUTION PLAN
1/4"=1'-0"



- COMMENTS:**
- REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR COMPONENT AND DEVICE SPECIFICATIONS.
 - SUPPORTS FOR FLEX DUCTWORK SHALL BE SPACED AT 4'-0" MAX. FLEX DUCT SHALL SAG NO MORE THAN 1/2" PER FOOT OF RUN.
 - ALL DUCT INSULATION SHALL HAVE A MINIMUM INSULATING VALUE OF R-6.
 - APPLY MASTIC DUCT SEALER AT EACH JOINT OR SEAM OR CONNECTION.
 - APPLY MASTIC TO DIFFUSER COLLAR AND SLIDE FLEX DUCT WHILE STILL WET, BAND CLAMP AND TAPE.
 - SUPPORT DUCTWORK WITH 1 1/2" WIDE 22 GAUGE STEEL STRAPS FIRMLY ATTACHED TO THE BUILDING STRUCTURE. SPACING SHALL BE MAXIMUM 10'-0" FOR RIGID DUCTWORK, AND MAXIMUM 4'-0" FOR FLEXIBLE DUCTWORK. 12 GAUGE WIRE MAY BE SUBSTITUTED FOR STRAPS IF 1 1/2" WIDE 22 GAUGE STEEL SADDLES ARE USED. FULLY ENIRCLE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL CODES.

2 DIFFUSER FIELD CONNECTION DETAIL
NONE

SPLIT SYSTEMS WITH HEAT PUMPS (EXISTING)

| AHU/HP-R3-1 | AVPTC48/SSZ14049 | 1480 | 0.4 | 46.5 | 34.2 | 45.5 | 0.75 | 15 | 15.0 | 9.0 |
|-------------|------------------|------|---|--|--|--|--|--------------------------------|-------------------|-----|
| AHU/HP-R3-2 | AVPTC48/SSZ14048 | 1480 | 0.4 <td>46.5 <td>34.2 <td>45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td></td></td></td> | 46.5 <td>34.2 <td>45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td></td></td> | 34.2 <td>45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td></td> | 45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td> | 0.75 <td>15 <td>15.0 <td>9.0</td> </td></td> | 15 <td>15.0 <td>9.0</td> </td> | 15.0 <td>9.0</td> | 9.0 |
| AHU/HP-R3-3 | AVPTC48/SSZ14048 | 1480 | 0.4 <td>46.5 <td>34.2 <td>45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td></td></td></td> | 46.5 <td>34.2 <td>45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td></td></td> | 34.2 <td>45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td></td> | 45.5 <td>0.75 <td>15 <td>15.0 <td>9.0</td> </td></td></td> | 0.75 <td>15 <td>15.0 <td>9.0</td> </td></td> | 15 <td>15.0 <td>9.0</td> </td> | 15.0 <td>9.0</td> | 9.0 |

FAN SCHEDULE

| UNIT ID | MANUFACTURER | MODEL | CFM | TYPE | DRIVE | FAN RPM | S.P. | | MOTOR | | SERVICE | INTERLOCKED WITH | NOTES / ACCESSORIES |
|---------|--------------|---------|-----|----------|--------|---------|------------|-----|-------|-------|-------------------|---------------------|---------------------|
| | | | | | | | (IN. W.G.) | HP | VOLTS | PHASE | | | |
| EF-1 | CAPTIVE-AIRE | DR30HFA | 500 | SIDEWALL | DIRECT | 1266 | 0.75 | 1/4 | 120 | 1 | JUST BAKED OVENS | HOOD MOUNTED SWITCH | 1-6 |
| EF-2 | CAPTIVE-AIRE | DR30HFA | 600 | SIDEWALL | DIRECT | 1313 | 0.75 | 1/4 | 120 | 1 | TOASTER AND TURBO | HOOD MOUNTED SWITCH | 1-6 |
| EF-3 | CAPTIVE-AIRE | DR12HFA | 300 | SIDEWALL | DIRECT | 1523 | 0.5 | 1/8 | 120 | 1 | RESTROOM | TIME CLOCK | 1-6 |

NOTES / ACCESSORIES:

- Afkunized Birdscreen
- Safety Disconnect Switch
- Gravity Backdraft Damper
- AMCA Seal & UL Certified
- Speed Control Switch Mounted To Fan Cabinet For Exact Balancing.
- Coordinate With Manufacturer For Final Selection

OUTDOOR AIR AHU-R3-1

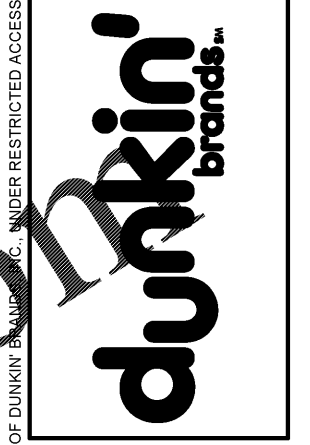
| SPACE TYPE | AREA FT² | PERS./1000 FT² | OCCUPANCY | CFM/PERSON | CFM/FT² | CFM |
|---------------------------|----------|----------------|-----------|------------|---------|-----|
| KITCHEN | 580 | - | - | - | 0.7 | 406 |
| TOTAL OUTDOOR AIR CFM 406 | | | | | | |

OUTDOOR AIR AHU-R3-2

| SPACE TYPE | AREA FT² | PERS./1000 FT² | OCCUPANCY | CFM/PERSON | CFM/FT² | CFM |
|---------------------------|----------|----------------|-----------|------------|---------|-----|
| SERVING/PREP AREA | 580 | - | - | - | 0.7 | 406 |
| TOTAL OUTDOOR AIR CFM 406 | | | | | | |

OUTDOOR AIR AHU-R3-3

| SPACE TYPE | AREA FT² | PERS./1000 FT² | OCCUPANCY | CFM/PERSON | CFM/FT² | CFM |
|---------------------------|----------|----------------|-----------|------------|---------|-----|
| SEATING AREA | 420 | 70 | 29 | 7.5 | 0.18 | 296 |
| TOTAL OUTDOOR AIR CFM 296 | | | | | | |



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RM3 ENGINEERING
2302 Brockett Road
TUCKER, GEORGIA 30084
770 934 0944

| NO | DESCRIPTION | DATE | SCALE | DRAWN | CKD | APPD |
|----|-------------|------|-------|-------|-----|------|
| | | | | | | |

| SET REVISIONS | DATE | SCALE | DRAWN | CKD | APPD |
|---------------|------|-------|-------|-----|------|
| | | | | | |

| NO | DESCRIPTION | DATE | SCALE | DRAWN | CKD | APPD |
|----|-------------|------|-------|-------|-----|------|
| | | | | | | |

DUNKIN DONUTS SPRING STREET
1270 SPRING ST., SUITE 3, ATLANTA, GA 30309

HVAC PLAN
NOTES, SCHEDULES

3E18-130