

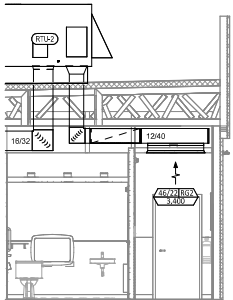


**HVAC PLAN NOTES**

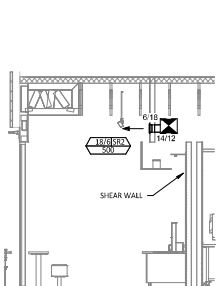
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PANTRY DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- 30/14 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 40/12 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 32/14 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 32/16 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUS ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
- 8" SM. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TENS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TENS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TENS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TENS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TENS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/710.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF THE LISTING, IN COMPLIANCE WITH NFPA-96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIROTE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.

**HVAC PLAN NOTES**

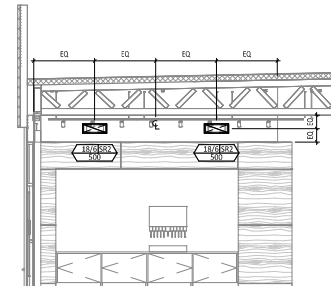
- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3" OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF.
- INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3" OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE WARDER SYSTEM FURNISHED BY CHIROTE ON EXHAUST FAN, EF-1.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- PROVIDE AUDIO VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOORS THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER FLEU TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 6" CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLEU AND COMBUSTION AIR TERMINATIONS.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



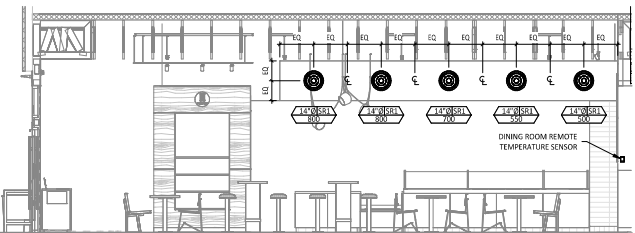
**HVAC DINING ROOM RETURN SECTION**  
1/4" = 1'-0"



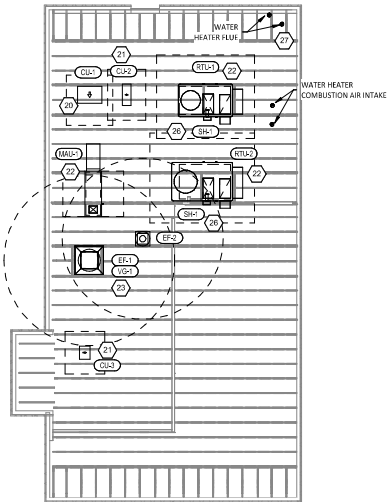
**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



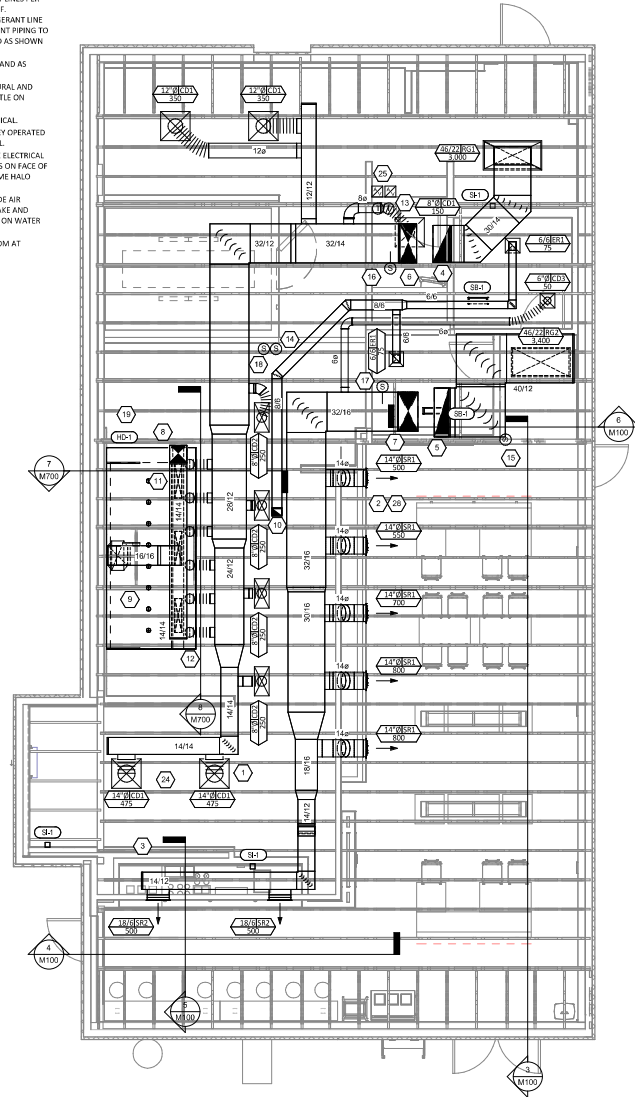
**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



**HVAC ROOF PLAN**  
1/8" = 1'-0"



**HVAC FLOOR PLAN**  
1/4" = 1'-0"

Consultant

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RALEIGH, NC 27604

Issue/Revised:  
03/24/2025 PERMIT SET  
05/22/2025 BID SET

Revisions:

Drawn: Checkd

MPC MPC

Project No.

2501040

Contract:

HVAC PLAN

M100







STORE NO.: 5858  
 "CAPITAL BOULEVARD"  
 3905 CAPITAL BOULEVARD  
 RALEIGH, NC 27604

Revision:

| NO.        | DATE       | BY | CHKD |
|------------|------------|----|------|
| 03/24/2025 | PERMIT SET |    |      |
| 05/27/2025 | BID SET    |    |      |

DATE: 3/19/2025  
 DWG. #: 7415761  
 DRAWN BY:  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

Drawn: \_\_\_\_\_  
 Checkd: \_\_\_\_\_  
 MPC: \_\_\_\_\_  
 MPC: \_\_\_\_\_

Project No: 2501040  
 SHEET NO. 1

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| 1   |             |      |
| 2   |             |      |
| 3   |             |      |

**CAPTIVE**  
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 REGION HQ  
 PHONE: (919) 875-1440  
 EMAIL: nrg@acpsp.com

PATENT NUMBERS  
 AC-PSP (UNITED STATES) - US PATENT 7963820 B2  
 AC-PSP WALL (CANADA) - CA PATENT 2820709  
 AC-PSP ISLAND (CANADA) - CA PATENT 2305330

HOOD INFORMATION - JOB#7415761

| HOOD NO. | TAG  | MODEL | MANUFACTURER | LENGTH | MAX. COOKING LAMP | TYPE | APPLIANCE DUTY | DESIGN CFM/FIT | TOTAL EXH. CFM | EXHAUST PLENUM SYSTEMS | WIA CFM | AC CFM | HOOD CONSTRUCTION | HOOD CONFIG        |
|----------|------|-------|--------------|--------|-------------------|------|----------------|----------------|----------------|------------------------|---------|--------|-------------------|--------------------|
| 1        | HD-1 | 5424  | CAPTIVE      | 12' 9" | 600 BEG           | 1    | HEAVY          | 200            | 2550           | 1530                   | -0.966" | 1300   | 696               | 430 SS ALONE ALDNE |

HOOD INFORMATION

| HOOD NO. | TAG  | TYPL                 | QTY | FILTER(S) |      |                        | LIGHT(S) |                |            | UTILITY CABINET(S) |             |            | FIRE HOOD SYSTEM/HANGING PIPING WEIGHT |           |       |     |          |
|----------|------|----------------------|-----|-----------|------|------------------------|----------|----------------|------------|--------------------|-------------|------------|--|-----------|-------|-----|----------|
|          |      |                      |     | HT        | LGTH | EFFICIENCY @ 7 MICRONS | QTY      | TYPL           | WIRE GUARD | LOCATION           | SIZE        | ELECTRICAL |  | QUANTITY  |       |     |          |
| 1        | HD-1 | CAPTIVE SOLID FILTER | 9   | 16"       | 16"  | 85% SEE FILTER SPEC.   | 8        | LSS SERIES E26 | NO         | RIGHT              | 12"x24"x24" | TANK FS    | 4.8/4.0                                | SC-31110A | 1 FAN | YES | 1213 LBS |

HOOD OPTIONS

| HOOD NO. | TAG  | TYPL          | QTY    | DESCRIPTION  |
|----------|------|---------------|--------|--|
| 1        | HD-1 | FIELD WRAPPER | 10.00' | HIGH FRONT, LEFT, RIGHT, INSULATION FOR BACK OF HOOD, RISER SENSOR INSTALL, 6IN. PLN. RIGHT VERTICAL END PANEL - 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS, LEFT VERTICAL END PANEL - 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS, FULL DIMENSION HANGING BRACKET - FRONT. |

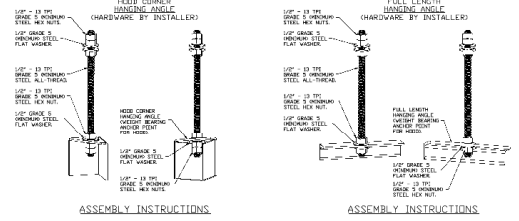
PERFORATED SUPPLY PLENUM(S)

| HOOD NO. | TAG  | POS.  | LENGTH | WIDTH | HEIGHT | TYPE | SIZES(S) |      |        |        |
|----------|------|-------|--------|-------|--------|------|----------|------|--------|--------|
|          |      |       |        |       |        |      | WIDTH    | LGTH | SP.    |        |
| 1        | HD-1 | Front | 16.5'  | 19"   | 6"     | MMA  | 6"       | 28"  | 432    | 0.127" |
|          |      |       |        |       |        | MMA  | 6"       | 28"  | 432    | 0.127" |
|          |      |       |        |       |        | MMA  | 6"       | 28"  | 432    | 0.127" |
|          |      |       |        |       |        | AC   | 8"       | 116  | 0.043" |        |
|          |      |       |        |       |        | AC   | 8"       | 116  | 0.043" |        |
|          |      |       |        |       |        | AC   | 8"       | 116  | 0.043" |        |

CLEARANCE TO COMBUSTIBLES

| HOODS # | SURFACE | CLEARANCE |
|---------|---------|-----------|
| 1       | TOP     | 18"       |
|         | FRONT   | 0"        |
|         | BACK    | 0"        |
|         | RIGHT   | 0"        |

- NO CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.  
 - HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPTIVE GREASE-STOP SOLID FILTER

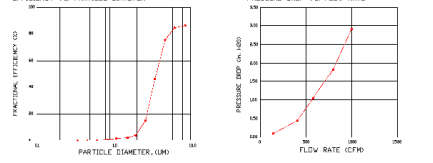
THE CAPTIVE GREASE-STOP SOLID FILTER IS A SINGLE STAGE FILTER FEATURING A DROGGE-SIMPLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BUFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 80% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTIVE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05 EFFICIENCY VS. PARTICLE DIAMETER.

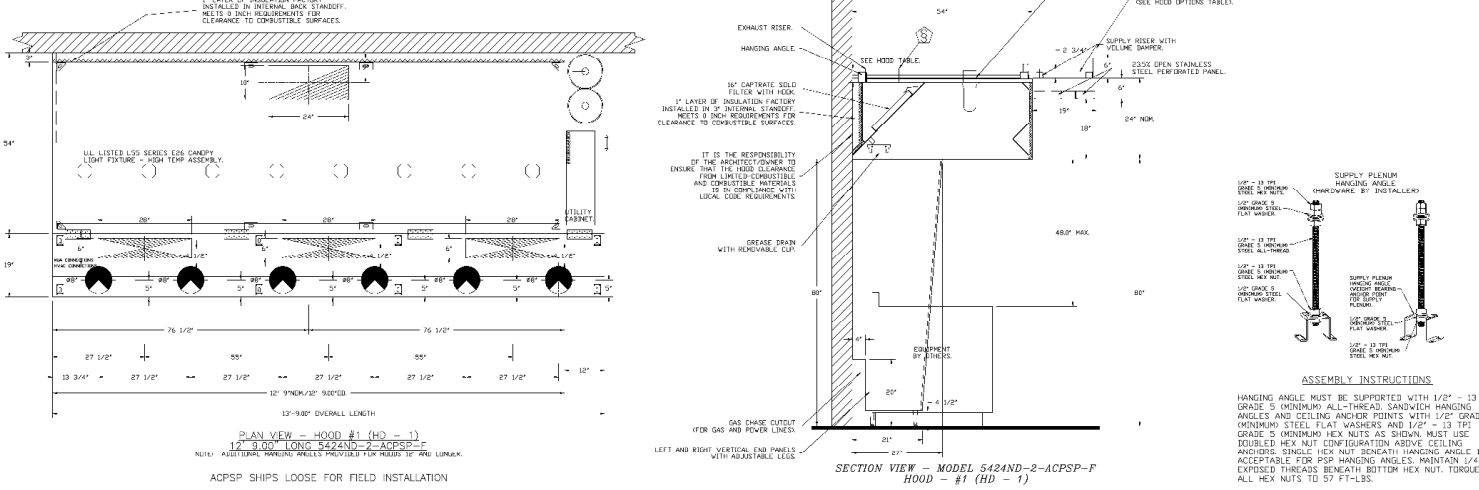


CAPTIVE FILTERS ARE BUILT IN COMPLIANCE WITH:  
 NFPA 96  
 NSF STANDARD #2  
 UL STANDARD #166  
 IFTI HOOD CODE CHN  
 UL-C-5649



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



SECTION VIEW - MODEL 5424ND-2-ACSP-F  
 HOOD - #1 (HD - 1)

NOTE  
 CAPTIVE AIRS SHOP DRAWINGS WERE PREPARED BY MANUFACTURER AND INCLUDED HERE FOR REFERENCE ONLY.

HVAC HOOD SHOP DRAWINGS

M710



| FAN UNIT NO | TAG  | QTY | FAN UNIT MODEL # | MANUFACTURER | CFM  | ESP   | RPM  | MOTOR PWT     | HP    | BHP    | PHASE | VOLT | FLA | DISCHARGE VELOCITY | WEIGHT (LBS) | SDNES |
|-------------|------|-----|------------------|--------------|------|-------|------|---------------|-------|--------|-------|------|-----|--------------------|--------------|-------|
| 1           | EF-1 | 1   | D0180FA          | CAPTIVEAIRE  | 2550 | 1.450 | 1225 | TEFC, PREMIUM | 2.000 | 1.0780 | 3     | 208  | 7.3 | 589 FPM            | 199          | 16.8  |
| 2           | EF-2 | 1   | D120FA           | CAPTIVEAIRE  | 150  | 0.600 | 1293 | TEAD-ECM      | 0.250 | 0.0950 | 1     | 115  | 2.9 |                    | 50           | 6.2   |

| FAN UNIT NO | TAG   | QTY | FAN UNIT MODEL # | BLOWER HOUSING | HIN CFM  | DESIGN CFM | ESP  | RPM   | MOTOR ENCL. | HP           | BHP   | PHASE  | VOLT | NCA | MDCP | WEIGHT (LBS) | SDNES |     |      |
|-------------|-------|-----|------------------|----------------|----------|------------|------|-------|-------------|--------------|-------|--------|------|-----|------|--------------|-------|-----|------|
| 3           | MAU-1 | 1   | AI-D-250-15D     | 15WF-1-MOD     | AI-D-250 | 1000       | 1300 | 0.500 | 1553        | TOP, PREMIUM | 1.000 | 0.5660 | 3    | 208 | 3.1  | 3.9A         | 15A   | 507 | 12.2 |

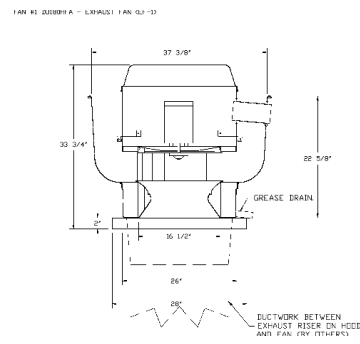
| FAN UNIT NO | IN    | INPUT BTU/S | OUTPUT BTU/S | TEMP. RISE | TEMP. RISE | WATER IN/OUT | GAS PRESSURE             | GAS TYPE | BURNER EFFICIENCY |
|-------------|-------|-------------|--------------|------------|------------|--------------|--------------------------|----------|-------------------|
| 3           | MAU-1 | 82920       | 76286        | 56°F       |            |              | 7 IN. W.C. - 14 IN. W.C. | NATURAL  | 92                |

| FAN UNIT NO | TAG   | QTY | DESCRIPTION   |
|-------------|-------|-----|---|
| 1           | EF-1  | 1   | GREASE BOX  |
|             |       | 1   | REMOVE HINGE KIT LABEL FROM THE FAN BASE  |
|             |       | 1   | 2 YEAR PARTS WARRANTY   |
| 2           | EF-2  | 1   | ECH. WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL - RTC - (TELED MOTOR), DCV ROTATION |
|             |       | 1   | 1 1/2-300 DAMPER  |
|             |       | 1   | 2 YEAR PARTS WARRANTY   |
| 3           | MAU-1 | 1   | SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS                                     |
|             |       | 1   | INLET PRESSURE GAUGE, 0-35"   |
|             |       | 1   | MANIFOLD PRESSURE GAUGE, -5 TO 15" WC   |
|             |       | 1   | SHIP 1 (DEF. GAS STRAINER 3/4")   |
|             |       | 1   | MOTORIZED BACKRAFT DAMPER FOR AI-D HOUSING - MEETS AMCA CLASS 1A RATING                             |

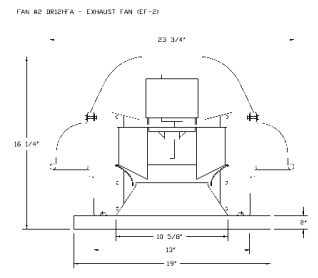
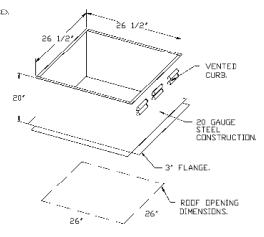
| FAN UNIT NO | TAG   | EXHAUST | SUPPLY |
|-------------|-------|---------|--------|
| 1           | EF-1  | YES     |        |
| 2           | EF-2  | YES     |        |
| 3           | MAU-1 |         | YES    |

| NO | IN FAN | TAG   | WEIGHT | ITEM | SIZE                                      |
|----|--------|-------|--------|------|---|
| 1  | # 1    | EF-1  | 39 LBS | CURB | 26.500"W X 26.500"L X 20.000"H VENTED.    |
| 2  | # 2    | EF-2  | 31 LBS | CURB | 17.500"W X 17.500"L X 26.000"H            |
| 3  | # 3    | MAU-1 | 65 LBS | CURB | 21.000"W X 21.000"L X 20.000"H INSULATED. |

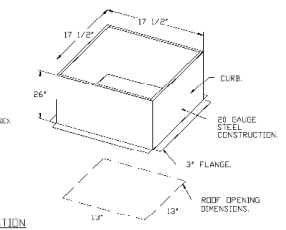
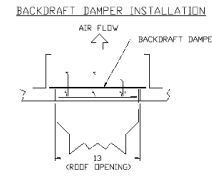
| UNIT NUMBER | HME #  | HME LOCATION | TEMP AVERAGING | HOBUS ADDRESS |
|-------------|--------|--------------|----------------|---------------|
| FAN #3      | HME #1 | UNIT         | IN UNIT        | NOT AVERAGED  |



- FEATURES:**
- DIRECT DRIVE CONSTRUCTION AND BELTS/PULLEYS
  - ROOF MOUNTED FANS
  - RESTRAINT KEEB
  - UL705 AND UL765 AND LLC-5645
  - VARIABLE SPEED CONTROL
  - INTERNAL WIRING
  - THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
  - HIGH HEAT OPERATION (300°F GAUGE)
  - GREASE CLASSIFICATION TESTING
  - MEVA 3R SAFETY DISCONNECT SWITCH
- INTERNAL PRESSURE TEST:**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DELETERIOUS EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.
- INTERNAL FLAME-UP TEST:**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 300°F (149°C) FOR 4 HOURS OR 25 HOURS WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.
- OPTIONS:**
- GREASE BOX
  - REMOVE HINGE KIT LABEL FROM THE FAN BASE
  - 2 YEAR PARTS WARRANTY



- FEATURES:**
- DIRECT DRIVE CONSTRUCTION AND BELTS/PULLEYS
  - ROOF MOUNTED FANS
  - UL705
  - SAFETY DISCONNECT
  - STANDBY BIRD SCREEN
  - SPEED CONTROL
  - THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- OPTIONS:**
- 1 1/2-300 DAMPER
  - ECH. WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL - RTC - (TELED MOTOR), DCV ROTATION
  - 2 YEAR PARTS WARRANTY



| REVISIONS | DESCRIPTION | DATE |
|-----------|-------------|------|
|           |             |      |

**CAPTIVE**

Highwoods Group  
www.captiveair.com  
4601 Pringle Park Rd., Raleigh, NC 27616 PHONE: (919) 875-1400 FAX: (919) 875-2227 EMAIL: reg@captivair.com

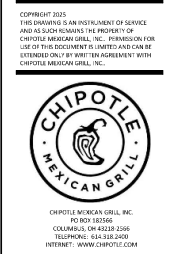
CHIPOTLE CAPITAL BOULEVARD #5858  
3905 Capital Boulevard,  
Raleigh, NC, 27604

DATE: 3/19/2025  
DWG #: 7415761  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 3

**NOTE**  
CAPTIVE AIRS SHOP DRAWINGS WERE PREPARED BY MANUFACTURER AND INCLUDED HERE FOR REFERENCE ONLY.

**NATIONAL**  
4635 Trieman Blvd, Suite 250  
Hilliard, Ohio 43026  
Phone: (614) 751-9610  
Fax: (614) 552-5240  
Contact: Mike Chapman  
(614) 595-9543  
mchapman@nationalengineering.com



STORE NO.: 5858  
"CAPITAL BOULEVARD"  
3905 CAPITAL BOULEVARD  
RALEIGH, NC 27604

| Issue/Rev: | DATE       | PERMIT SET |
|------------|------------|------------|
| 03/24/2025 | 03/24/2025 | BID SET    |

| Drawn: | Checked: |
|--------|----------|
| MPC    | MPC      |

Project No:  
2501040  
Contract:

HVAC HOOD SHOP DRAWINGS

M712

















STORE NO. : 5858  
 "CAPITAL BOULEVARD"  
 3905 CAPITAL BOULEVARD  
 RALEIGH, NC 27604

**PLUMBING FIXTURE SCHEDULE**

| TAG   | DESCRIPTION                             | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN            |                         | REMARKS  | COUNT | CONNECTION SIZE |      |       | WATER SUPPLY FIXTURE UNITS |      |       | DRAINAGE FIXTURE UNITS |
|-------|---|--------------|--------------|-----------------------------|-------------------------|--|-------|-----------------|------|-------|----------------------------|------|-------|------------------------|
|       |   |              |              | MANUFACTURER                | MODEL                   |  |       | CW              | HW   | WASTE | CW                         | HW   | TOTAL |                        |
| BP-1  | RPZ BACKFLOW PREVENTER                  | GC           | GC           | CONBRACO                    | 44LE-203-TZF            | LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE   | 1     | 1/2"            |      |       | 0                          | 0    | 0     |                        |
| DM-2  | DISH SANITIZING MACHINE (PUMPED OUTLET) | KES          | GC           | SEE ARCH                    | --                      | CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET   | 1     | 0"              | 1/2" | 5/8"  | 0                          | 3    | 3     | 7                      |
| DN-1  | DOWNSPOUT NOZZLE                        | GC           | GC           | WATTS                       | RD-954                  | STAINLESS STEEL DOWNSPOUT COVER WITH PERFORATED HINGED STRAINER  | 2     |                 |      | 4"    |                            |      |       |                        |
| ET-1  | EXPANSION TANK                          | GC           | GC           | AMTROL                      | ST-5                    | 7 GALLON CAPACITY  | 1     | 3/4"            |      |       | 0                          |      | 0     |                        |
| FG-1  | GAS FRYER                               | KES          | GC           | SEE ARCH                    | --                      |  | 1     |                 |      |       |                            |      |       |                        |
| FCO-1 | FLOOR CLEANOUT (3")                     | GC           | GC           | SIOUX CHIEF                 | 852-3PNR                | ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT ALUS)  | 1     |                 |      | 3"    |                            |      |       | 0                      |
| FCO-2 | FLOOR CLEANOUT (4")                     | GC           | GC           | SIOUX CHIEF                 | 852-4PNR                | ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT ALUS)  | 5     |                 |      | 4"    |                            |      |       | 0                      |
| FD-1  | FLOOR DRAIN                             | GC           | GC           | SIOUX CHIEF                 | 842-2-PNR               | ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT   | 6     | 1/2"            |      | 2"    |                            |      |       | 2                      |
| FN-3  | FUNNEL DRAIN                            | GC           | GC           | JAY R. SMITH                | 3823T                   | FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET   | 1     |                 |      | 2"    |                            |      |       | 2                      |
| FS-1  | FLOOR SINK                              | GC           | GC           | SIOUX CHIEF                 | 861-3PU2                | HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF-PVC GRATE   | 7     |                 |      | 3"    |                            |      |       | 5                      |
| GR-4  | GAS GRIDDLE                             | KES          | GC           | SEE ARCH                    | --                      |  | 1     |                 |      |       |                            |      |       |                        |
| HB-1  | CHEMICAL DISPENSER HOSE BIB             | KES          | GC           | SEE ARCH                    | --                      | COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.  | 2     | 1/2"            | 1/2" |       | 2.25                       | 2.25 | 3     |                        |
| HS-2  | VEGETABLE WASH HOSE BIB                 | KES          | GC           | SEE ARCH                    | --                      | SILL FAUCET WITH NPT FEMALE INLET  | 1     | 1/2"            |      |       | 1.5                        |      | 1.5   | 1                      |
| HS-1A | RESTROOM HAND SINK                      | GC           | GC           | AMERICAN STANDARD           | 9024-0011C              | ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084  | 2     |                 |      | 2"    |                            |      |       | 1                      |
| HS-1B | RESTROOM HAND SINK FAUCET               | KES          | GC           | SEE ARCH                    | --                      | METREX FAUCET WITH 0.5 GPM AERATOR AND FURNISHED WITH THERMOSTATIC MIXING VALVE. ADJUST FAUCET FOR 30 SEC COND RUN TIME.   | 2     | 1/2"            | 1/2" |       | 1.5                        | 1.5  | 2     |                        |
| HS-2  | KITCHEN HAND SINK                       | KES          | GC           | SEE ARCH                    | --                      | STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK  | 4     | 1/2"            | 1/2" | 2"    | 1.5                        | 1.5  | 2     | 1                      |
| IM-1  | ICE MAKER - BOH                         | KES          | KES          | SEE ARCH                    | --                      | BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)   | 1     | 1/2"            |      |       | 1                          |      | 1     | 1                      |
| IM-2  | ICE MAKER - SODA                        | KES          | KES          | SEE ARCH                    | --                      | SODA MACHINE MOUNTED ICE MACHINE (INTEGRAL AIR COOLED)   | 1     | 1/2"            |      |       | 1                          |      | 1     | 1                      |
| IM-3  | ICE MAKER - SODA                        | KES          | KES          | SEE ARCH                    | --                      | SODA MACHINE MOUNTED ICE MACHINE (REMOTE AIR COOLED)   | 1     | 1/2"            |      |       | 1                          |      | 1     | 1                      |
| MB-1A | MOP BASIN                               | GC           | GC           | FIAT                        | MSB2424                 | PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.  | 1     |                 |      | 3"    |                            |      |       | 2                      |
| MB-1B | MOP SINK FAUCET                         | KES          | GC           | SEE ARCH                    | --                      | SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS  | 1     | 1/2"            | 1/2" |       | 2.25                       | 2.25 | 3     |                        |
| PF-1  | SPEED FILL FAUCET                       | KES          | GC           | SEE ARCH                    | --                      | WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND NPT FEMALE INLET  | 1     | 3/8"            |      |       | 1.5                        |      | 1.5   |                        |
| RC-1  | RICE COOKER                             | KES          | GC           | SEE ARCH                    | --                      |  | 1     |                 |      |       |                            |      |       |                        |
| RD-1  | ROOF DRAIN (PRIMARY)                    | GC           | GC           | WATTS                       | RD-103                  | EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET   | 2     |                 |      | 5"    |                            |      |       |                        |
| RD-2  | ROOF DRAIN (OVERFLOW)                   | GC           | GC           | WATTS                       | RD-104-W                | EPOXY COATED CAST IRON OVERFLOW ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL 4 IN (102MM) HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET   | 2     |                 |      | 4"    |                            |      |       |                        |
| RH-1  | FREZEZ PROOF ROOF HYDRANT               | GC           | GC           | HOEPIYNER                   | 2131R                   | AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. HOEPIYNER PRODUCTS (408) 847-7815   | 1     | 3/4"            |      |       | 1                          |      | 1     |                        |
| RN-1  | 6 BURNER RANGE                          | KES          | GC           | SEE ARCH                    | --                      |  | 1     |                 |      |       |                            |      |       |                        |
| SC-1  | BAG-IN-BOX SODA RACK WITH CARBONATORS   | SPS          | SPS          | SEE ARCH                    | --                      | SODA CARBONATORS SHALL HAVE AN INTEGRAL ASSE 102Z-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE   | 1     | 1/2"            |      |       | 1                          |      | 1     |                        |
| SK-1  | THREE COMPARTMENT SINK                  | KES          | GC           | SEE ARCH                    | --                      | THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET   | 1     | 1/2"            | 1/2" | 2"    | 3                          | 3    | 4     | 0                      |
| SK-2  | PREP SINK                               | KES          | GC           | SEE ARCH                    | --                      | STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET  | 1     | 3/4"            | 3/4" | 2"    | 3                          | 3    | 4     | 0                      |
| TD-1  | TRENCH DRAIN                            | GC           | GC           | ZURN                        | 2886-8601 8602          | 6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3/8" TO 4/8") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET. FIXES FOR REDUCTION TO 2" DRAIN CONNECTION. | 1     | 3/4"            | 3/4" | 2"    | 3                          | 3    | 4     | 0                      |
| TP-3  | TRAP PRIMER (THREE-EDUR FLOOR DRAINS)   | GC           | GC           | PRECISION PLUMBING PRODUCTS | P1-500 W/ DU U          | TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED   | 2     | 1/2"            |      |       | 0                          | 0    | 0     | 0                      |
| WC-1  | WATER CLOSET                            | GC           | GC           | KOHLER                      | K-3519 W/ SEAT K-4666-C | WHITE HIGHLINE 1.0 GPF, 17-1/8" HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-ROOF SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE SEAT (ADD-ON TO THE MODEL #FOR RIGHT HAND TRIP LEVER).      | 2     | 1/2"            |      | 3"    | 2                          | 2    | 2     | 4                      |
| WH-1  | FREZEZ PROOF WALL HYDRANT               | GC           | GC           | WOODFORD                    | MODEL 65                | AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.   | 2     | 3/4"            |      |       | 1                          |      | 1     |                        |

**Travis Chapman**  
 From: FOG <sfog@fograleighnc.gov>  
 Sent: Thursday, March 27, 2025 11:23 AM  
 To: Travis Chapman  
 Cc: Dusty Austin; FOG Sanders, Courtney; Chris, Bryan; 3905 Capital Boulevard - FOG Submittal-Chipotle  
 Subject: Gravity Grease Interceptor Sizing Template 30 min retention .xls; Plumbing Set\_Capital Boulevard\_5858\_032425.pdf; Pages from SFR 0247 2022 Approved - Utility Plan.pdf; S-40 updated.pdf; S-41 updated.pdf; S-25 updated.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Travis,

Raleigh Water Pats, Oils, and Grease offers no objection to **Chipotle located at 3905 Capital Blvd, Raleigh, NC 27604** installing a 1,500 gallon single use grease interceptor. Grease interceptors shall conform to Details S-25, S-40, and S-41. Interceptors constructed of metal or carbon steel shall not be approved.

C. DeCarlo Sanders  
 Utilities Analyst  
 City of Raleigh  
 Public Utilities | Raleigh Water  
 Sewer Maintenance Division  
 Raleigh, NC 27604  
 919-996-2334 (office) | 919-280-1300 (mobile)  
 Courtney.Sanders@raleighnc.gov

From: Travis Chapman <trc@willusarch.com>  
 Sent: Monday, March 24, 2025 2:59 PM  
 To: FOG <sfog@fograleighnc.gov>  
 Cc: Dusty Austin <dla@willusarch.com>  
 Subject: Chipotle - 3905 Capital Boulevard - FOG Submittal

**WATER HEATER SCHEDULE**

| TAG   | DESCRIPTION                 | NATURAL GAS   |                 | ELECTRICAL |         | FURNISHED BY | INSTALLED BY | BASIS FOR DESIGN |           | REMARKS  |
|-------|-----------------------------|---------------|-----------------|------------|---------|--------------|--------------|------------------|-----------|--|
|       |                             | INPUT         | CONNECTION SIZE | FLA        | V/P/H   |              |              | MANUFACTURER     | MODEL     |  |
| DWH-1 | WATER HEATER (GAS TANKLESS) | 139,000 Btu/h | 3/4"            |            | 120V/60 | GC           | GC           | NAVEN            | NPE-240A2 | RATED FLOW RATE: 5.6 GPM @ 67°F RISE<br>THERMAL EFFICIENCY: 96%<br>PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR). |
| DWH-2 | WATER HEATER (GAS TANKLESS) | 139,000 Btu/h | 3/4"            |            | 120V/60 | GC           | GC           | NAVEN            | NPE-240A2 | RATED FLOW RATE: 5.6 GPM @ 67°F RISE<br>THERMAL EFFICIENCY: 96%<br>PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR). |

Issue/Revised:  
 03/24/2025 PERMIT SET  
 05/12/2025 BID SET

Revised:  
 05/12/2025 PLAN REVIEW

Drawn: \_\_\_\_\_  
 Checkd: \_\_\_\_\_  
 MPC: \_\_\_\_\_  
 MPC: \_\_\_\_\_

Project No:  
 2501040

Contract:  
 \_\_\_\_\_