PROPOSED RENOVATION FOR:

POPEYES LOUISIANA KITCHEN

102-18 ROOSEVELT AVENUE QUEENS, NY 11368

GENERAL NOTES

- ALL DRAWINGS IN THE SET FOR THIS PROJECT ARE INTERRELATED AND SHALL BE REVIEWED IN THEIR TOTALITY BY THE SPECIFIC CONSTRUCTION TRADES PEOPLE INVOLVED. THE DRAWINGS HEREIN SHALL BE CONSIDERED AS A WHOLE AND SHALL NOT BE DISTRIBUTED ON AN INDIVIDUAL BASIS. THE SPECIFIC TRADES SHALL BE REQUIRED TO COORDINATE ALL WORK AND SHALL BE RESPONSIBLE FOR THE REPORTING TO THE ARCHITECT OF ANY PLANNING CONFLICTS. DISCREPANCIES. AMBIGUITIES. AN ERRORS OBSERVED IN THE DRAWING SET PRIOR TO INSTALLATION OF WORK.
- 2. ALL COSTS REQUIRED TO CONSTRUCT THE WORK AS **GENERALLY INTENDED AND SPECIFIED HEREIN SHALL** BE CONSIDERED AND COMPENSATED FOR BY THE CONTRACTOR AND BE INCLUDED IN THE CONTRACTOR'S BID. NO ADDITIONAL PAYMENT WILL BE CONSIDERED FOR CONTRACTOR'S FAILURE TO MAKE SUCH CONSIDERATION.
- 3. ALL MATERIALS SHALL BE PROVIDED AND INSTALLED AS INDICATED ON THESE CONSTRUCTION DOCUMENTS. ALL WORK PERFORMED SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND ACCORDING TO CURRENT INDUSTRY STANDARDS.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE NEW YORK CITY BUILDING CODE. IN ADDITION, THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF STATE AND FEDERAL CODES **GOVERNING CONSTRUCTION OPERATIONS ON THIS SITE.**
- 5. NOT ALL GAS, POWER, WATER, SEWER OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONTRACTOR'S BENEFIT. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES ON SITE WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS. ALL EXISTING UTILITIES ENCOUNTERED IN THE WORK, WHETHER IN PUBLIC RIGHTS OF WAY OR PRIVATE PROPERTY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED INTERRUPTIONS OF UTILITY SERVICE WITH THE OWNER, AND PROVIDE TO THE OWNER A MINIMUM OF 24 HOUR NOTICE OF SUCH DISRUPTIONS OF SERVICE.
- 6. SAFETY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND **REGULATIONS OF LOCAL, STATE AND FEDERAL** AGENCIES HAVING JURISDICTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, **INCLUDING SAFETY OF ALL PERSONS AND PROPERTY** DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL AT MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK. THE OPTION OF THE OWNER AND/OR ARCHITECT TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS, AND TRAFFIC CONTROL AS REQUIRED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WORK SITE AND SURROUNDINGS FREE OF ALL CONSTRUCTION RELATED DEBRIS ON A DAILY BASIS. IN ADDITION TO RUBBISH REMOVAL, SITE MAINTENANCE SHALL INCLUDE CONTAINMENT MEASURES AS REQUIRED TO LIMIT THE DISPERSION OF CONSTRUCTION RELATED DUST AND OTHER AIRBORNE
- 8. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS AND CHECK ALL DIMENSIONS NECESSARY FOR THE PROPER INSTALLATION OF THE WORK SHOWN ON THE DRAWINGS AND/OR NOTED WITHIN THE SPECIFICATIONS, BOTH PRIOR TO AND DURING THE PROSECUTION OF THE WORK. THE CONTRACTOR SHALL MAKE ALL NECESSARY MEASUREMENTS TO PREVENT MISFITTING IN SAID WORK. LOCATIONS, SIZES AND ELEVATIONS ARE APPROXIMATE. THE EXISTING CONFIGURATION OF UTILITIES MUST BE VERIFIED ON SITE. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AT THE LOCATION OF WORK AND MODIFY THE BID PROPOSAL AS REQUIRED TO COMPENSATE FOR THE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES WHICH MAY ALTER OR IMPEDE THE ORIGINAL OR INTENDED DESIGN.
- ANY WORK DONE WITHOUT LINES AND GRADES BEING GIVEN, OR BEYOND THE LINES AND GRADES SHOWN ON THE DRAWINGS OR OTHERWISE GIVEN, EXTRA WORK DONE WITHOUT AUTHORITY OR ANY OTHER WORK WHICH FAILS TO COMPLY WITH THE CONTRACT DOCUMENTS WILL BE CONSIDERED UNAUTHORIZED AND AT THE EXPENSE OF CONTRACTOR.

- 10. ALL CONSTRUCTION OPERATIONS AND RELATED WORK TO BE PERFORMED AT THE CONSTRUCTION SITE SHALL BE CONTAINED WITHIN THE PROPERTY LINES SURROUNDING THE LOCATION OF WORK. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AS TO THE LOCATION AND AVAILABILITY OF STORAGE AND STAGING AREAS WHICH THE CONTRACTOR MAY REQUIRE.
- 11. ALL EXISTING UTILITIES SHALL REMAIN IN PLACE EXCEPT WHERE MODIFICATION OR RELOCATION OF EXISTING UTILITIES IS REQUIRED FOR PLACEMENT OF NEW WORK.
- 12. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SUBMITTALS AND/OR SAMPLES OF MATERIALS. FIXTURES AND EQUIPMENT AS REQUIRED BY THE OWNER/ARCHITECT PRIOR TO PURCHASE AND INSTALLATION OF PROPOSED ITEMS.
- 13. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. DIMENSIONS AS SHOWN ON DRAWINGS SHALL GOVERN.
- 14. PROVIDE AND INSTALL FIRE-RETARDANT TREATED WOOD BLOCKING AS REQUIRED AT ALL LOCATIONS WHERE WALL MOUNTED ITEMS SUCH AS SHELVES, RACKS, HANGER RODS AND OTHER ITEMS ARE INDICATED IN THE CONSTRUCTION DOCUMENTS.
- 15. CONSTRUCTION OPERATIONS PRODUCING EXCESSIVE AND/OR DISTURBING LEVELS OF NOISE SHALL BE LIMITED TO AND PERFORMED DURING DAYLIGHT HOURS AFTER 8AM ON WEEKDAYS ONLY. AN AFTER HOURS WORK PERMIT MAY BE ISSUED BY THE DEPARTMENT OF **BUILDINGS FOR WORK ON THE WEEKENDS.**
- 16. NO CONCRETE SHALL BE PLACED WHEN LOCAL WEATHER FORECASTS INDICATE THAT SUB-FREEZING WEATHER MAY OCCUR WITHIN 48 HOURS OF THE POUR.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR **OBTAINING ALL REQUIRED PERMITS AND PAYMENT OF** ALL PERMIT FEES.
- 18. WHERE A CONFLICT IS FOUND IN THESE DRAWINGS IN WHICH DIFFERENT MATERIALS OR ASSEMBLIES ARE INDICATED TO BE INSTALLED AT THE SAME LOCATION. THE CONTRACTOR SHALL ASSUME FOR THE PURPOSES OF BIDDING AND CONSTRUCTION THAT THE MOST COSTLY ALTERNATIVE IS TO BE PROVIDED AND INSTALLED.
- 19. COORDINATE WITH THE BUILDING MANAGEMENT FOR ANY ACCESS REQUIRED FOR SPACES NOT WITHIN THE TENANT SPACE.

GENERAL DEMOLITION NOTES

- 1. DISPOSE OF ALL DEMOLITION AND **CONSTRUCTION RELATED REFUSE IN A** MANNER STRICTLY CONFORMING TO AND IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENTAL LAWS, CODES, ORDINANCES AND/OR REGULATIONS.
- AREAS, SURFACES AND FINISHES NOT INCLUDED WITHIN THE SCOPE OF DEMOLITION **WORK. BARRICADES AND TEMPORARY** IMPERMEABLE DUST BARRIERS AMONG OTHER METHODS, SHALL BE UTILIZED AS REQUIRED TO MAINTAIN OCCUPIED AREAS IN A SAFE AND CLEAN MANNER DURING **DEMOLITION OPERATIONS AND THROUGHOUT** THE DURATION OF CONSTRUCTION ACTIVITIES.

2. THE CONTRACTOR SHALL PROTECT ALL

- . PRIOR TO COMMENCING DEMOLITION WORK THE CONTRACTOR SHALL INSTALL TEMPORARY BRACING AND SHORING AS **REQUIRED TO TO MAINTAIN STABILITY OF THE EXISTING STRUCTURE DURING DEMOLITION** AND THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. DESIGN AND INSTALLATION OF BRACING AND SHORING IS **SOLELY THE RESPONSIBLITY OF THE** CONTRACTOR AND THE CONTRACTOR'S **ENGINEER. ANY TEMPORARY STRUCTURAL** REINFORCEMENT MUST BE APPROVED BY THE LANDLORD PRIOR TO EXECUTION.
- 4. DEMOLISH AND REMOVE ALL GYPSUM BOARD PARTITIONS, CEILINGS, CEILING AND ROOF FRAMING AND ASSOCIATED FINISHES AS INDICATED ON THE DRAWINGS FOR REMOVAL, AND AS REQUIRED FOR INSTALLATION OF NEW WORK.

102-12 ROOSEVELT AVENUE —

BLOCK: 1974

25' FRONTAGE

1 STORIES

LOT AREA: 2,321 SQ.FT.

BUILDING AREA: 3,120 SQ.FT.

PLOT PLAN

- 5. TENANT TO PROVIDE NOTIFICATION AND CONDUCT A WALK-THROUGH WITH OWNER FOR ANY SALVAGEABLE MATERIALS PRIOR TO DEMOLITION. THE OWNER RETAINS THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIALS PRIOR TO DISPOSAL BY THE CONTRACTOR.
- 6. EXISTING UTILITIES EXPOSED DURING **DEMOLITION SHALL BE RELOCATED.** TEMPORARILY TIED-OFF, CAPPED, OR REMOVED AS REQUIRED. ALL UTILITIES SHALL BE CAPPED OR TIED OFF FLUSH WITH **EXISTING FLOOR. WALL OR CEILING** SURFACES TO REMAIN. CABLES AND/OR PIPES WHICH ARE BEING PERMANENTLY TAKEN OUT OF SERVICE SHALL BE REMOVED **BACK TO NEAREST JUNCTION BOX,** ELECTRICAL PANEL. BRANCH OR VALVE. SMOKE DETECTORS SHALL REMAIN OPERABLE DURING AND AFTER COMPLETION

OF DEMOLITION WORK.

ROOSEVELT AVE

102-18 ROOSEVELT AVENUE

1 STORY

BUILDING

40-22 NATIONAL STREET

LOT AREA: 13.700 SO.FT. **BUILDING AREA: 11,250 SQ.FT.**

BLOCK: 1974

119' FRONTAGE 1 STORIES

AREA OF WORK

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL INTERIOR AND EXTERIOR BUILDING SURFACES AND FINISHES, INCLUDING FLOORS, WALLS, **CEILINGS AND ROOFS. SURFACES AND** FINISHES DAMAGED DURING DEMOLITION AND CONSTRUCTION OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO "AS NEW CONDITION" IN THEIR ENTIRETY. REPAINTING, REFINISHING AND REPLACEMENT OF TRIMS. ET CETERA, SHALL MATCH EXISTING, TO THE SATISFACTION OF THE OWNER/ARCHITECT.

PROPOSED WORK SHALL BE IN FULL COMPLIANCE WITH THE FOLLOWING:

APPLICABLE CODES

BUILDING
- NEW YORK CITY BUILDING CODE 1968

MECHANICAL
- NYC MECHANICAL CODE 2014 - ADOPTS THE IMC 2009 WITH AMENDMENTS

ENERGY
- NEW YORK CITY ENERGY CONSERVATION CODE 2020

ELECTRICAL
- NYC ELECTRICAL CODE 2011

PLUMBING - NYC PLUMBING CODE 2014 - ADOPTS THE IPC 2009 WITH AMENDMENTS

FUEL GAS
- NYC FUEL GAS CODE 2014 - ADOPTS WITH IFGC 2009 WITH AMENDMENTS

ACCESSIBILITY
- AMERICANS WITH DISABILITIES ACT (ADA) - CHAPTER 11 OF THE NEW YORK CITY BUILDING CODE

- NEW YORK CITY HEALTH CODE, EDITION IN FORCE AT TIME OF PERMIT

N.Y.C.E.C.C. COMPLIANCE STATEMENT

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE NYCECC 2020

DEFERRED SUBMITTALS

SIGNAGE VENDOR SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AND INSPECTIONS AS REQUIRED BY THE LOCAL JURISDICTION, SIGNAGE SHOWN ON THESE DRAWINGS ARE FOR DESIGN INTENT ONLY AND ARE TO VERIFIED BY THE VENDOR.

FIRE AND LIFE SAFETY

DESIGN / BUILT BY GENERAL CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING THE DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY THE LOCAL JURISDICTION IF APPLICABLE TO THIS PROJECT.

INSPECTIONS

THE GENERAL CONTRACTOR IS TO COORDINATE ALL SPECIAL INSPECTIONS REQUIRED BY THE DOB WITH THE SPECIAL INSPECTION AGENCY.

ENERGY CODE PROGRESS INSPECTIONS:

- SHUTOFF DAMPERS (IB2), (IIB2) HVAC AND SERVICE WATER HEATING EQUIPMENT (IB3), (IIB3)
- HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS (IB4), (IIB4) HVAC INSULATION AND SEALING (IB5), (IIB5)
- **DUCT LEAKAGE TESTING (IB6), (IIB6)** MAINTENANCE INFORMATION (ID1), (IID1)

MECHANICAL SYSTEMS. BC 1704.16

PROGRESS INSPECTIONS:

ENERGY CODE COMPLIANCE INSPECTIONS, BC 110.3.5 FINAL, 28-116.2.4, BC 110.5, DIRECTIVE 14 OF 1975, AND 1 RCNY §101-10

ZONING MAP



INDEX OF DRAWINGS

T-100.00

EN-101.00

M-001.00

M-301.00

M-302.00

M-401.00

DESCRIPTION

TITLE SHEET

ENERGY ANALYSIS

MECHANICAL ROOF PLAN

MECHANICAL SCHEDULES

MECHANICAL DETAILS

MECHANICAL SYMBOLS AND NOTES

MECHANICAL PLAN - FIRST FLOOR

BUILDING DATA

BUILDING ADDRESS 102-18 ROOSEVELT AVENUE

QUEENS, NEW YORK 11368

CONSTRUCTION TYPE 1974 1 STORIES

COMMERCIAL RETAIL **ESTABLISHMENT (9 SEATS)**

FLOOR AREA FIRST FLOOR: 1,318 SQ.FT.

SCOPE OF WORK

PROPOSED RENOVATION AT EXISTING COMMERCIAL SPACE FOR AN EATING & DRINKING ESTABLISHMENT AT THE FIRST FLOOR LEVEL. NO CHANGE IN USE, EGRESS OR OCCUPANCY.

NYC DOB CORRESPONDING APPLICATIONS

WORK TYPE APPLICATION # **GENERAL CONSTRUCTION (OT)** DOB M0000000 DOB NOW PLUMBING (PL)

PROJECT CONTACTS

102-18 ROOSEVELT AVENUE FLUSHING, NEW YORK 11368 CONTACT: ZEB ALI EMAIL: ZEB.ALI@FORTEMLLC.COM

ZELTA DESIGN, LLC **45 SUSSEX AVENUE NEWARK, NEW JERSEY 07103** TEL: 973-933-6636 **CONTACT: ERIK LIEPINS EMAIL: ERIK@ZELTADESIGN.COM** SPECIAL INSPECTION AGENCY

ZELTA INSPECT 10 RUBY PLACE **NEWARK, NEW JERSEY 07104** TEL: 973-933-6632 **CONTACT: ERIK LIEPINS** EMAIL: INFO@ZELTAINSPECT.COM

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Revisions Description

DOB Approval Stamp:



Popeyes Louisiana Kitchen

102-18 Roosevelt Avenue Queens, NY 11368

Title Sheet

Project No. Z012-20 Date: 03/10/2021 Drawn By: RSE Scale: NY License No. 042821

DOB NOW Job No:

1 of 7

P	ROGRESS INSPECTIONS FOR ENE	RGY CODE CO	,	TR-8)
CODE	INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 6 OR OTHER CRITERIA)	ECC OR OTHER CITATION
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT: EQUIPMENT SIZING, EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURERS DATA.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C403.2, C404.2, C404 C406.2, ASHRAE 90. -6.3, 6.4.1, 6.4.2, 6.8 7.4, 7.8
IIB4	HVAC AND SERVICE WATER HEATING CONTROLS: NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO: - THERMOSTATIC - SET POINT OVERLAP RESTRICTION - OFF-HOUR - SHUTOFF DAMPER - ZONES - ECONOMIZERS - AIR SYSTEMS - VARIABLE AIR VOLUME - SINGLE ZONE COOLING SYSTEMS - HEAT REJECTION EQUIPMENT FAN SPEED - COMPLEX MECHANICAL SYSTEMS SERVING MULTIPLE ZONES - VENTILATION - TEMPERATURE - EXHAUST HOODS	AFTER INSTALLATION AND PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES; ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE	C403.2.4, C403.2.5.1 C403.2.11, C403.3, C403.4, C404.3, C404. C404.7; ASHRAE 90. -6.3, 6.4, 6.5, 7.4.4, 7.4.5
IIB5	HVAC INSULATION AND SEALING: INSTALLED DUCT AND PIPING INSULATION SHALL BE VISUALLY INSPECTION TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE VISUALLY INSPECTED FOR PROPER SEALING	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SMACNA DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE	C403.2.7, C403.2.8, C404.5, MC 603.9; ASHRAE 90.1 -6.3, 6.4.4, 6.8.2, 6.8.3; 7.4
IID1	MAINTENANCE INFORMATION: MAINTENANCE MANUALS FOR MECHANICAL, SERVICE HOT WATER AND ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING PREVENTATIVE MAINTENANCE SHALL BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER. LABELS REQUIRED FOR SUCH EQUIPMENT OR SYSTEMS SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS.COMMERCIAL KITCHEN EQUIPMENT	PRIOR TO SIGN-OFF OR ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS; SMACNA DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE	C403.2.7, C403.2.8 C404.5, MC 603.9; ASHRAE 90.1 -6.3, 6.4.4, 6.8.2, 6.8.3; 7.4

ENERGY ANALYSIS					
ENERGY ANALYSIS FOR ALTERATION IN CLIMATE ZONE 4 BUILDING DESIGN FOR COMMERCIAL BUILDINGS AS PER 2020 NYC ECC CHAPTER C4					
NYCECC CITATION	PROVISION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE (ECC)	SUPPORTING DOCUMENTATION
C403.2	CALCULATION OF HEATING AND COOLING LOADS	LOAD CALCULATIONS FOR HVAC SYSTEMS	DESIGN LOADS ARE DESIGNED TO COMPLY WITH SECTION C403.2.1 AND C403.2.2	DESIGNED TO COMPLY WITH SECTION C403.2.1 AND C403.2.2	SEE MECHANICAL PLANS
C403.2.3(11)	MINIMUM EFFICIENCY REQUIREMENTS FOR ELECTRICALLY OPERATED VARIABLE-REFRIGERANT-FLOW AIR CONDITIONER	AIR COOLED AIR CONDITIONER, 216,000 BTU/H	11.2 EER	11.0 EER	SEE MECHANICAL PLANS FOR EQUIPMENT SCHEDULE
C403.4	THERMOSTATIC CONTROLS (MANDATORY)	THERMOSTATS FOR MECHANICAL ZONES	ONE THERMOSTAT IS PROVIDED FOR EACH ZONE	MINIMUM ONE THERMOSTAT REQUIRED PER ZONE	SEE MECHANICAL PLANS FOR THERMOSTAT LOCATIONS.
C403.4.1.2	DEADBAND (MANDATORY)	SPLIT UNIT THERMOSTATS	EACH THERMOSTAT WILL BE PROGRAMMED AS REQUIRED	ZONE THERMOSTAT OPERATION SHALL HAVE MINIMUM 5 DEGREE FAHRENHEIT DEAD BAND BETWEEN HEATING AND COOLING	SEE MECHANICAL NOTES
C403.4.2	OFF HOUR CONTROLS (MANDATORY)	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	ALL ZONE THERMOSTATS SHALL BE OPERATED VIA THERMOSTATIC SETBACK CONTROLS OPERATED VIA AN AUTOMATIC TIME CLOCK OR A PROGRAMMABLE CONTROL SYSTEM	SEE MECHANICAL NOTES
C403.4.2.1	THERMOSTATIC SETBACK CAPABILITIES	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL HAVE THE ABILITY TO SETBACK TEMPERATURES DOWN TO 55 DEGREES OR UP TO 85 DEGREES FAHRENHEIT	SEE MECHANICAL NOTES
C403.4.2.2	AUTOMATIC SETBACK AND SHUTDOWN (MANDATORY)	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY STARTING AND STOPPING THEY SYSTEMS FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK, CAPABLE OF HAVING SETTINGS SAVED IN MEMORY FOR 10 HOURS DURING A LOSS OF POWER, AND A MANUAL SYSTEM "ON" OVERRIDE FOR UP TO TWO HOURS, OR AN OCCUPANCY SENSOR	SEE MECHANICAL NOTES
C403.4.2.3	AUTOMATIC START (MANDATORY)	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM AND AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE.	SEE MECHANICAL NOTES
C403.5	ECONOMIZERS	AIR ECONOMIZER PROVIDED FOR COOLING SYSTEM	000,000 BTU/H SYSTEM WITH AIR ECONOMIZER	AIR COOLED SYSTEMS WITH A COOLING CAPACITY GREATER THAN OR EQUAL TO 54,000 BTU/H SERVING OTHER THAN GROUP R OCCUPANCIES	SEE MECHANICAL SCHEDULE
C403.5.5	ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (MANDATORY)	ACC-1 ECONOMIZER FAULT DETECTION AND DIAGNOSTICS	ACC-1 INCLUDES ECONOMIZER WITH FDD CONTROLS, PER THE REQUIREMENTS	VARIABLE REFRIGERANT FLOW UNITS LISTED IN TABLES C403.3.2(10) AND C403.3.2(11) THAT ARE EQUIPPED WITH AN ECONOMIZER IN ACCORDANCE WITH SECTIONS C403.5 THROUGH C403.5.4 SHALL INCLUDE A FAULT DETECTION AND DIAGNOSTICS SYSTEM	SEE MECHANICAL SCHEDULE
C403.7.5	KITCHEN EXHAUST SYSTEMS (MANDATORY)	KITCHEN EXHAUST SYSTEMS	KITCHEN EXHAUST SYSTEM PROVIDED AS PER THE REQUIREMENTS	REPLACEMENT AIR INTRODUCED DIRECTLY INTO THE EXHAUST HOOD CAVITY SHALL NOT BE GREATER THAN 10 PERCENT OF THE HOOD EXHAUST AIRFLOW RATE. CONDITIONED SUPPLY AIR DELIVERED TO ANY SPACE SHALL NOT EXCEED THE GREATER OF THE ITEMS LISTED IN THIS SECTION OF CODE	SEE MECHANICAL SCHEDULE
C403.7.7	SHUTOFF DAMPERS (MANDATORY)	AIR INTAKES, EXHAUST OPENING REQUIREMENTS FOR DAMPERS	OUTDOOR AIR INTAKE AND EXHAUST OPENING DAMPERS AS REQUIRED	DAMPERS MUST BE PROVIDED IN ACCORDANCE WITH SECTION C403.7.7	SEE MECHANICAL PLANS



DESIGN

P: 973-933-6636 E: hello@zeltadesign.com

45 Sussex Avenue

Newark, New Jersey 07103

Newark, New Jersey 07 103		
Revisions		
No.	Description	Date

DOB Approval Stamp:



Popeyes Louisiana Kitchen

102-18 Roosevelt Avenue Queens, NY 11368

Energy Analysis

Project No. Z012-20	
Date: 03/10/2021	
Drawn By: RSE	
Scale:	
NY License No. 042821	1

DOB NOW Job No:

EN-101.00

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MATERIALS AND PERFORMANCE

- 1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY POPEYES DEVELOPMENT. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE FIVE (5)DAYS BEFORE THE CONTRACT IS TO BE LET.
- 2. NATIONAL ACCOUNTS: ROOFTOP HVAC EQUIPMENT, TOILET EXHAUST FANS, HVAC DUCT SYSTEMS, AND HVAC DIFFUSERS, GRILLS, AND PLENUM BOXES ARE AVAILABLE FROM NATIONAL ACCOUNTS INDICATED ON THE DRAWING COVER SHEET. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH PLANS AND MANUFACTURERS' INSTRUCTIONS. FOR NATIONAL ACCOUNTS INFO REFER TO DIRECTORY
- 3. ROUTING OF DUCT SYSTEMS: COORDINATE ROUTING OF DUCT SYSTEMS WITH OTHERS, LINE UP WORK TRUE TO ADJACENT SPACES AND IN A WORKMANLIKE MANNER, AND USE STANDARD RADIUS 90 ELBOWS. WHERE REQUIRED, DUCTWORK IS TO BE STURDILY SUPPORTED AND SEPARATED IN ACCORDANCE WITH ASHRAE &
- 4. DUCTWORK FOR HVAC SYSTEM:

A LICENSED TEST AND BALANCE CONTRACTOR SHALL PROVIDE ALL TOOLS AND TEST EQUIPMENT NECESSARY FOR BALANCING ALL HVAC AND EXHAUST AIR SYSTEMS. A "DIGITAL" ANEMOMETER MODEL DA 4000 WITH A 275 PROBE IS RECOMMENDED FOR MEASURING HOOD EXHAUST

- 4.1. GENERAL NOTES:
- 4.1.1. VOLUME DAMPERS SHALL BE INSTALLED AT ALL BRANCH RUNOUTS.
- 4.1.2. DUCT DIMENSIONS INDICATED ARE INSIDE DIMENSIONS DIMENSIONS. 4.1.3. DUCT WORK SHALL BE BUILT IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
- 4.1.4. DUCT BOARD IS NOT ALLOWED.
- 4.2. METAL DUCT WORK:
- 4.2.1. DUCT WORK SHALL BE CONSTRUCTED OF G-90 GALVANIZED SHEET METAL. 4.2.2. THE GAUGES OF METAL TO BE USED AND THE CONSTRUCTION AND BRACING OF JOINTS
- SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. 4.2.3. METAL DUCT SHALL BE SUPPORTED FROM BUILDING STRUCTURE ON STRIP HANGERS NOT OVER 5'-0" APART.
- 4.3. EXTERNAL S/A, R/A DUCT WRAP: 4.3.1. INSULATE EXTERIOR OF ALL S/A, R/A METAL DUCT FITTINGS WITH 2" THICK FIBERGLASS, 3/4
 - LB.DENSITY, BLANKET INSULATION WITH FOIL BACKING ANDUL LABELED. 4.3.2. INSULATION SHALL HAVE A FLAME SPREAD OF TWENTY FIVE(25)OR LESS AND A SMOKE
 - DEVELOPED RATING OF FIFTY(50)OR LESS. 4.3.3. INSULATION SHALL BE OWENS-CORNING FRK25 OR EQUAL.
 - 4.3.4. INSULATION SHALL BE LIGHTLY LAPPED WITH 2" WIDE VAPOR BARRIER PRESSURE-SENSITIVE TAPE. SEE DETAIL ON M4 SHEET.
 - 4.3.5. DUCT WRAP SHALL BE INSTALLED IN A NEAT AND COMPETENT MANNER WITH ALL EDGES COVERED WITH APPROVED METALLIC DUCT TAPE TO VAPOR-PROOF THE ENTIRE DUCT.
- 4.4.1. INSULATION AND VAPOR BARRIERS PRESENT ON ALL FLEX CONNECTORS SHALL BE FITTED OVER THE CORE CONNECTION AND SHALL BE SUPPLEMENTALLY SECURED WITH A DRAW BAND AND TAPED. SEE DETAIL ON M4 SHEET.
- TEMPERATURE SETTINGS:
- 5.1. AT CONCLUSION OF PROJECT, SET POINTS SHALL BE APPROXIMATELY COOLING 78 DEGREES F/ HEATING 68 DEGREES F, AND INSTRUCT OWNER HOW TO RESET.
- 6.1. CURBS TO BE FURNISHED BY NCA CONSULTANTS AND INSTALLED IN ACCORDANCE WITH DETAILS ON SHEET M2. COORDINATE WITH ROOF CONTRACTOR. RTU'S SHALL BE INSTALLED SUCH THAT ROOF DECK IS CONTINUOUS BENEATH, AND OPEN PLENUM CURBS FLANGE TO FLANGE. SEE M2 SHEET.
- 7. TESTING AND ADJUSTING OF HVAC SYSTEM:
- 7.1. UPON COMPLETION OF THE INSTALLATION, THE PROJECT SHALL BE TESTED AND ADJUSTED AS FOLLOWS:
- 7.1.1. ADJUST FAN DRIVES TO ACHIEVE REQUIRED AND RATED CFM.
 - 7.1.2. ADJUST TEMPERATURE AND FAN CONTROL SEQUENCE. 7.1.3. ADJUST THE ENTIRE INSTALLATION AS TO MINIMIZE NOISE AND VIBRATION FROM FANS.
 - 7.1.4. ELIMINATE ANY DUCT PULSATION BY USE OF STIFFENERS OR ADDITIONAL SUPPORTS AS
 - 7.1.5. CORRECT ANY EQUIPMENT OR COMPONENT WHICH IS GENERATING OBJECTIONABLE NOISE IN THE OPINION OF THE OWNER OR BY LOCAL AUTHORITIES.
 - 7.1.6. BALANCE EXHAUST AND OUTSIDE AIR TO QUANTITIES INDICATED ON THE PLANS. REFER TO BUILDING AIR BALANCE SCHEDULE.
 - 7.1.7. PROVIDE OWNER AND ENGINEER OF RECORD TWO(2) COPIES OF A WRITTEN AIR BALANCE REPORT INDICATING ALL FINAL EXHAUST, SUPPLY, AND OUTSIDE AIR FLOWS.
- 8. PIPING TO BE HERMETICALLY SEALED.
- 9. CONTROLS: FURNISH AND INSTALL AS INDICATED ON DRAWINGS. FURNISH AND INSTALL ALL CONTROL WIRING AND CABLES FROM HVAC UNITS, TEMPERATURE SENSORS, PHOTOCELL, AND CONTRACTOR PANEL IF USED. ROUTE CONTROL WIRING IN RACEWAY IN EQUIPMENT IF PROVIDED.
- 10. HOOD EXHAUST FANS AND DUCTWORK: INSTALL ALL HOOD EXHAUST FANS IN ACCORDANCE WITH THE PLANS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. COOKING EXHAUST FANS ARE SUPPLIED BY OWNER. VENTILATOR EXHAUST DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 96.
- 11. CLEANUP: AFTER COMPLETION OF THE WORK BEFORE FINAL INSPECTION CLEAN HVAC EQUIPMENT.
- 12. FILTERS: PROVIDE CLEAN SET OF FILTERS FOR EACH HVAC UNIT WHEN TURNED OVER TO THE OWNER.
- 13. HVAC OPERATOR'S MANUAL AND DIAGRAMS:
- 13.1. PROJECTS PARTICIPATING IN THE NATIONAL ACCOUNTS PROGRAM SHALL FOLLOW THE PROCEDURE OUTLINED IN THE NATIONAL ACCOUNT.
- 13.2. PROJECTS NOT PARTICIPATING IN THE NATIONAL ACCOUNT SHALL FOLLOW THE FOLLOWING PROCEDURE:
 - 13.2.1. PREPARE IN DUPLICATE A MANUAL DESCRIBING THE PROPER MAINTENANCE AND OPERATION OF THE SYSTEM. THIS MANUAL SHALL NOT CONSIST OF STANDARD FACTORY-PRINTED INSTRUCTIONS, ALTHOUGH THESE MAY BE INCLUDED, BUT SHALL BE PREPARED TO DESCRIBE THIS PARTICULAR PROJECT.
 - 13.2.2. THE MANUALS SHALL BE BOUND, INDEXED, DATED, AND SIGNED BY THE GENERAL CONTRACTOR. ONE (1)COPY SHALL BE SENT TO POPEYES DEVELOPMENT AND THE OTHER TO THE OWNER. QUALIFIED REPRESENTATIVES OF THE AIR CONDITIONING CONTRACTOR SHALL MEET WITH THE DESIGNATED REPRESENTATIVE OF THE OWNER. THE OWNER'S REPRESENTATIVE SHALL BE INSTRUCTED IN THE PROPER OPERATION AND MAINTENANCE OF THE HVAC AND CONTROL SYSTEM.
- 14. GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1)YEAR FROM DATE OF COMPLETION. IN ADDITION, ALL REFRIGERATION COMPRESSORS SHALL BEAR A NON-PRORATED 5-YEAR FACTORY WARRANTY, AND ALL EXTENDED WARRANTIES.
- 15. SERVICE ACCESS::
- 15.1. PROVIDE SERVICE ACCESS AS REQUIRED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF SUCH ACCESS IS NOT AVAILABLE, NOTIFY OWNER AND ATTEMPT TO SEE IF NECESSARY CHANGES CAN BE WORKED OUT WITH OTHER TRADES. IF NOT, DO NOT INSTALL EQUIPMENT WHICH DOES NOT MEET MANUFACTURER'S REQUIREMENTS FOR ACCESSIBILITY. IN NO CASE BID, SUBMIT, OR INSTALL EQUIPMENT IN SITUATIONS THAT DO NOT MEET THE MANUFACTURER'S WARRANTY REQUIREMENTS.
- 16. ENVIRONMENTAL CORROSION PROTECTION. CONDENSER, COOLING/HEATING COILS: 16.1. REQUIRED FACTORY DIPPED COATING WITHIN ONE MILE OF ANY SALT WATER BODY. FACTORY

PRE-COAT WITHIN ONE TO FIVE MILES OF ANY SALT WATER BODY.

EXHAUST HOOD DUCT (BY G.C.)

- 1. FRYER EXHAUST DUCTWORK ARE SIZED TO MAINTAIN A MINIMUM 1660 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS SEALED LIQUID TIGHT
- 2. ALL HORIZONTAL RUNS OF GREASE DUCT, EXHAUST AND CONDENSATE SHALL SLOPE BACK TOWARD THE HOOD, GRILLE OR DRAIN AT A SLOPE OF 1" PER FOOT.
- 3. THE MECHANICAL CONTRACTOR IS TO PROVIDE CLEANOUTS, AS REQUESTED PER DETAIL ON M5 SHEET.
- 4. THE DISCHARGE OF THE GREASE EXHAUST FAN SHALL BE UPWARD AND A MINIMUM OF 40" ABOVE THE ROOF SURFACE AND A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
- 5. ALL GREASE EXHAUST DUCTS SHALL HAVE RADIUSED ELBOWS. EXHAUST DUCT PROTECTION:
- 6. GREASE EXHAUST DUCT SHALL BE CARBON STEEL 16 GAUGE WELDED DUCTS PER NFPA-96 PROTECTED WITH THE FOLLOWING: 1" AIR SPACE FROM DUCT TO 22 GA SHEET METAL COVERED WITH 1" MINERAL WOOL AND WIRE MESH SECURED TO COMBUSTIBLES WITH 1" NON COMBUSTIBLE SPACERS TO REDUCE CLEARANCE TO COMBUSTIBLES TO 3" PER NFPA 96 A-1-3.2.

OPTIONAL COMBUSTIBLE PROTECTION: USE FIRE MASTER GREASE DUCT FIRE PROTECTION SYSTEM BY "THERMAL CERAMICS" WHICH OFFERS ZERO CLEARANCE TO COMBUSTIBLE & 2 HR. RATING.

EXHAUST HOOD NOTES

- 1. THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED BY OWNER AND INSTALLED BY THE HVAC CONTRACTOR. 1.1. STAINLESS STEEL HOODS AS SPECIFIED PRE PIPED FOR FIRE PROTECTION SYSTEM, CEILING CLOSURE STRIP, AND ALL EXHAUST FANS AND CURBS.
- 2. THE HVAC CONTRACTOR SHALL RECEIVE THE ABOVE EQUIPMENT, UNCRATE, BE RESPONSIBLE FOR REPORTING DAMAGE RECEIVED DURING SHIPMENT, AND BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE ABOVE EQUIPMENT ONCE RECEIVED ON THE JOB.
- 3. EXHAUST HOODS PROVIDED WILL MEET OR EXCEED THE FOLLOWING REQUIREMENTS, OR AS BY THE ACTIONABLE CODE:
- 3.1. NSF # 1362 BEAR THE NSF SEAL OF APPROVAL U.L. CLASSIFICATION # 24N1
- MEET OR EXCEED NFPA # 96, 1998 EDITION
- 3.4. 2006 IMC
- 4. THE MECHANICAL ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING A SET OF SHOP DRAWINGS FROM THE HOOD MANUFACTURER. THE ENGINEER SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY LOCAL CODES WHICH WILL AFFECT THE HOOD MANUFACTURE OR INSTALLATION.
- THE HOOD MANUFACTURER SHALL PROVIDE PRE-PIPED AUTOMATIC FIRE CONTROL SYSTEMS FOR THE FRYER HOOD INCLUDING FIRE CONTROL CABINETS - AND FURNISH A 2 POLE MICRO SWITCH FURNISHED FOR EQUIPMENT SHUT OFF. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL INSTALLATION AND INSPECTIONS OF THE HOOD EXHAUST SYSTEM HOOD EXTINGUISHING SYSTEM BY CERTIFIED FIRE SUPPLY
- 6. THE PLUMBING CONTRACTOR SHALL INSTALL THE MECHANICAL GAS VALVE IN ACCORDANCE WITH THE APPLICABLE CODES. THE VALVE SHALL BE PROVIDED BY PLUMBING CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING IN ACCORDANCE WITH THE "HOOD WIRING DIAGRAM" SHEET AS DIRECTED BY THE ELECTRICAL ENGINEER.
- MANUAL PULL STATION SHALL BE PROVIDED BY HOOD CONTRACTOR AND INSTALLED BY FIRE SUPPLY CONTRACTOR.

REGIONAL COORDINATION

MAKE-UP AIR FOR THE FRYER HOOD SHALL BE INDUCED THROUGH THE HVAC SYSTEMS, AS LONG AS THE OUTSIDE AIR QUANTITIES DO NOT EXCEED 25% OF THE HVAC SYSTEM CAPACITIES. IF ADDITIONAL MAKE-UP AIR IS REQUIRED. THE ENGINEER SHALL CONTACT THE HOOD MANUFACTURER TO DESIGN AN ADDITIONAL TEMPERED OR NON-TEMPERED MAKE-UP AIR SYSTEM, DEPENDING ON REGIONAL WEATHER REQUIREMENTS.

GENERAL NOTES

- HVAC CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT. AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.
- 2. ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT. REFER
- 4. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT
- WHICH HE INSTALLS, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
- 5. CONDENSATE DRAINAGE FROM ROOF TOP HVAC UNITS SHALL BE TRAPPED. REFER TO ROOF PLAN.
- 6. PROVIDE VIBRATION ISOLATION GASKETS AT FLANGE MARRIAGES. SEE DETAIL ON M4 SHEET.
- 7. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- 8. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE
- 10. THIS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS. WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- 11. THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID NTERFERENCE WITH WALL MOUNTED ITEMS. MOUNT 54" AFF.
- 12. MECHANICAL CONTRACTOR TO INSULATE BACKSIDE OF ALL DIFFUSERS.
- 13. ALL DAMAGED COIL FINS SHALL BE COMBED STRAIGHT.

SECTION 15B - HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

GENERAL PROVISIONS

- 1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING HEATING. VENTILATING, AIR CONDITIONING. REFRIGERATION SYSTEMS BY OTHERS. WORK UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO:
- 1.1. FURNISH AND INSTALL THE FOLLOWING: ROOFTOP UNITS AND CURBS, INSULATION, DUCT WORK FOR AIR DEVICES, HVAC CONTROLS AND PROPER LOW VOLTAGE COMPONENTS FOR COMPLIANCE WITH NFPA 96
- INSTALL THE FOLLOWING: EXHAUST FANS, HOODS, AND GREASE RISER. ICE MACHINE AIR COOLED CONDENSER ON ROOF BY OTHERS.
- GENERAL REQUIREMENTS: ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.

WHERE ENERGY CALCULATIONS ARE REQUIRED, THESE SHALL BE PREPARED BY THE MECHANICAL ENGINEER AT THE DIRECTION OF THE ARCHITECT. A COPY OF THE CALCULATION SHALL BE FORWARDED TO POPEYES DEVELOPMENT FOR THEIR RECORDS.

COORDINATION:

COORDINATE WORK WITH OTHER TRADES. LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. FIELD LOCATE ROOF CURBS BASED ON THE GENERAL DIRECTIONS GIVEN ON CONSTRUCTION DOCUMENTS.

MECHAN	ICAL LEGEND
\boxtimes	CEILING SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST REGISTER
	DOUBLE LINE DUCT
8	DOUBLE LINE PIPE
\ \	ACOUSTIC LINING IN DUCT
\	WIRE MESH SCREEN
R	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
D	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
L	VOLUME DAMPER
①RTU-1	WALL MOUNTED THERMOSTAT FOR UNIT INDICATED
P	REMOTE HOOD PULL STATION
S	REMOTE DUCT TEMPERATURE SENSOR
FL	FUSIBLE LINK
O	PIPE UP
C	PIPE DROP
\mathcal{I}	BOTTOM CONNECTION
\sim	TOP CONNECTION
[CAP
<u></u>	CONCENTRIC REDUCER
<i>> > > > > > > > > > ></i>	ECCENTRIC REDUCER
\longrightarrow	GATE VALVE
├	CHECK VALVE
├── 10 ├ ──	BALL VALVE
├	AUTOMATIC THREE WAY CONTROL VALVE
├	AUTOMATIC TWO WAY CONTROL VALVE
├──────	SOLENOID VALVE
\hookrightarrow	PRESSURE REDUCING VALVE
<i>></i>	BUTTERFLY VALVE (MANUAL)
<i>></i> → □	BUTTERFLY VALVE (MOTORIZED)
├──Ж	COMBINATION BALANCING VALVE AND METER STATION
├── ₩	GLOVE VALVE
≯ ——	PRESSURE RELIEF VALVE
	PLUG VALVE
	STRAINER WITH BLOW DOWN VALVE

HVAC CONTROL NOTES

THE HVAC CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING DIAGRAMS FOR THE HVAC EQUIPMENT. 24 VOLT WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL 24 VOLT TRANSFORMERS AS REQUIRED.

THE AIR CONDITIONING UNIT FANS, HEATING AND COOLING SHALL BE CONTROLLED FROM 24 VOLT ROOM THERMOSTATS LOCATED APPROXIMATELY AS SHOWN ON THE PLANS. THE THERMOSTATS SHALL BE MOUNTED BY THIS CONTRACTOR 54" A.F.F.

KITCHEN EXHAUST FANS SHALL BE CONTROLLED BY A SWITCH LOCATED ON THE HOOD SERVED BY THAT FAN.

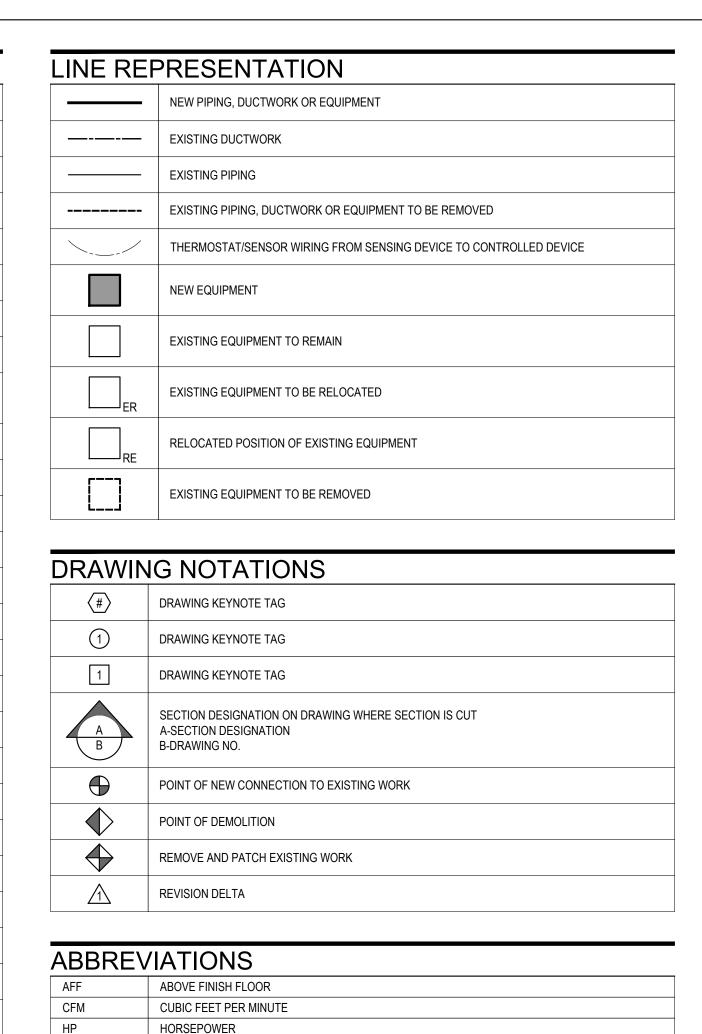
TOILET EXHAUST FANS SHALL BE CONTROLLED BY A ROOM OCCUPANCY SENSOR.

HVAC UNITS SHALL BE PROGRAMMED FOR "FAN-ON" DURING OCCUPIED TIMES, FAN SHALL CYCLE WITH UNITS DURING UNOCCUPIED TIMES.

PROVIDE EACH AIR CONDITIONING UNIT WITH SUPPLY AIRFLOW GREATER THAN 2000 CFM WITH A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN AND SUPPLY AIR DUCT SYSTEM PRIOR TO MIXTURE OF OUTSIDE AIR CAPABLE OF SHUTTING DOWN ITS RESPECTIVE AIR CONDITIONING UNIT UPON ACTIVATION. THE SMOKE DETECTOR SHALL CONSIST OF A SIMPLEX DUCT DETECTOR WITH PHOTOELECTRIC DETECTOR, AND SAMPLING TUBE. ALL LINE VOLTAGE WIRING AND CONDUIT SHALL BE BY THE ELECTRICAL CONTRACTOR AND ALL OTHER WORK SHALL BE BY THE HVAC CONTRACTOR. ACTIVATION OF A DUCT SMOKE DETECTORS SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

NOTE:
GENERAL CONTRACTOR SHALL COORDINATE TRUSS SPACING PLUM TO
ACCOMMODATE STRAIGHT GREASE RISERS FROM HOOD TO FAN INLET.

APPROVED HVAC NATIONAL ACCOUNT
APPROVED VENDORS:
CARRIER
TRANE
LENNOX



KILOWATT

RPM

RTU

OUTSIDE AIR

ROOFTOP UNIT

WET-BULB

REVOLUTION PER MINUTE



DOB Approval Stamp:

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Revisions

Description

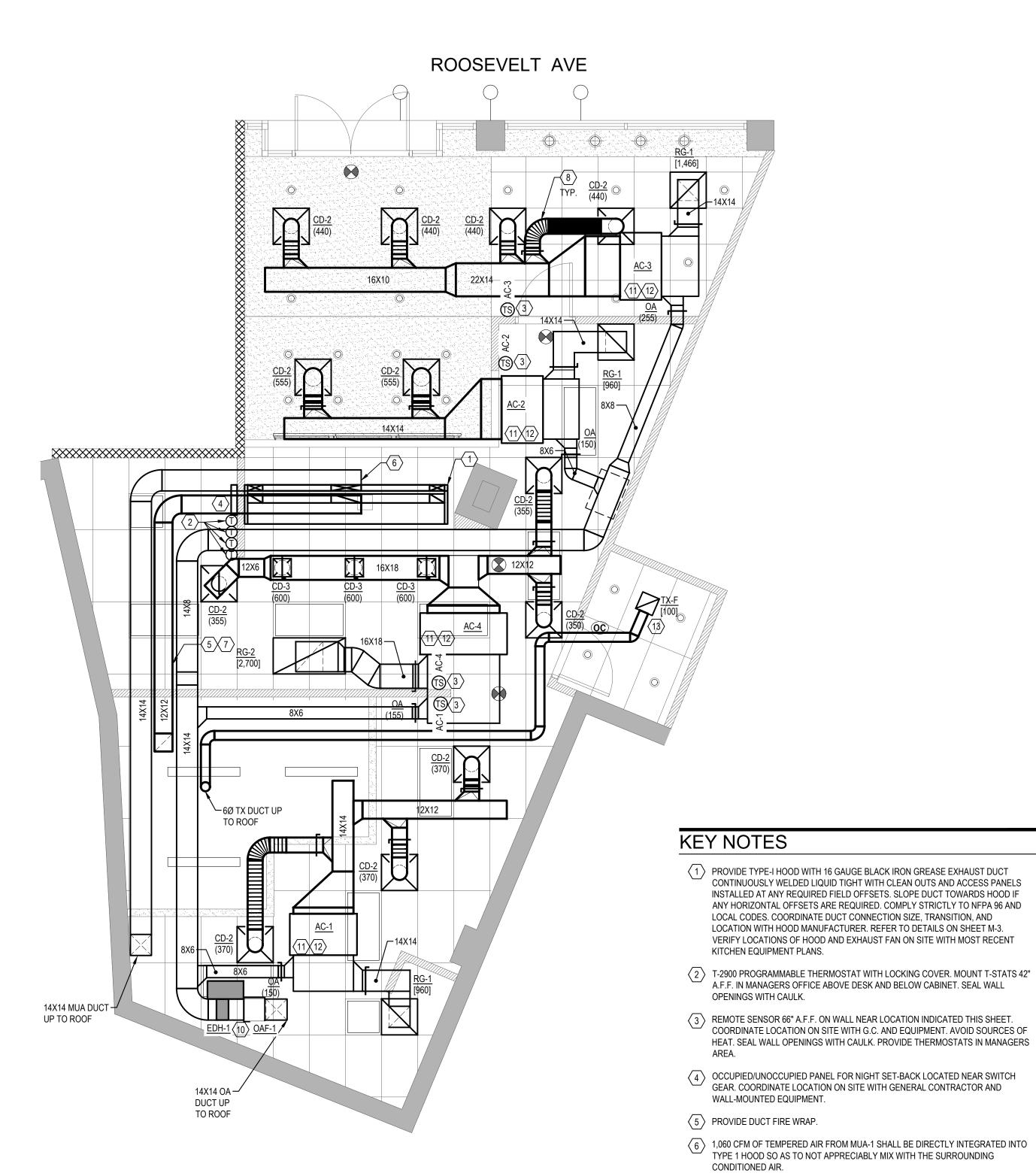
Popeyes Louisiana Kitchen

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Symbols and Notes

Project No. Z012-20	
Date: 03/10/2021	
Drawn By: RSE	
Scale: Not to Scale	
NY License No. 042821	

DOB NOW Job No:







MECHANICAL PLAN - FIRST FLOOR 1/4"=1'-0"

DRAWING NOTES

- THE HVAC CONTRACTOR SHALL INSTALL THE TYPE 1 FRYER HOODS LEVEL & AT THE PROPER LOCATION, GREASE RISERS, ALL HVAC ROOF CURBS, RTU'S, ALL HVAC DUCTWORK, GRILLES, HVAC CONTROLS AS NOTED, INCLUDING SMOKE DETECTORS. REFER TO THE HOOD SHEETS FOR PROPER HOOD INFORMATION. THE HVAC CONTRACTOR SHALL INSTALL GREASE RATED EXHAUST DUCT FROM THE HOOD COLLAR TO THE BASE OF THE EXHAUST FANS ON THE ROOF PER NFPA96 AND LOCAL CODES. FLARE GREASE EXHAUST RISER AT THE TOP TO THE OPENING OF THE VENTURI OF FAN. THE HVAC CONTRACTOR SHALL VERIFY LOCATIONS OF EXHAUST FANS AND THE HOODS ON SITE WITH DIRECT COORDINATION WITH THE G.C. THE G.C. SHALL SIGN OFF ON THE LOCATION OF FRYER HOOD, SO THAT RISERS CAN BE FIT PROPERLY. TRUSS ENG. GROUP ALLOW SPACING FOR GREASE RISER TO PASS THRU CENTER OF TRUSS BAY AT 2 LOCATIONS. G.C. SHALL COORDINATE STRUCTURAL FRAMING TO ACCOMMODATE PLUM RISERS. G.C. SHALL PROVIDE PERIMETER FRAMING & PENETRATIONS AT ALL ROOF CURBS.
- 2. SEE NCA PACKAGE SCHEDULE NOTES FURNISHED ITEMS FOR HVAC INSTALLATION. ALL NON-FURNISHED ITEMS NECESSARY TO COMPLETE THE DESIGN INTENT OF THESE DOCUMENTS SHALL BE BY THE HVAC CONTRACTOR.
- 3. ALL NCA PROVIDED ROOF CURBS SHALL BE FABRICATED FROM 18 GA. G-90 MTL. WITH FULLY WELDED SEAMS, WATER TIGHT AND INTERNALLY INSULATED. FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.
- 4. SHIMS SHALL BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH ON BUILT UP ROOFS ONLY. OTHER ROOF CONSTRUCTIONS SHALL BE EVALUATED FOR BUILT-IN PITCH ON
- 5. ALL FLEX DUCT SHALL BE U.L. LISTED, R-6 BENEATH THERMAL BLDG. ENVELOPE & R-8 WHEN CEILING INSULATION IS USED. FLEX SHALL BE FOIL-BACKED, CLASS 1 AIR DUCT WITH FIRE AND SMOKE RATING [25]-[50].
- 6. FLEX DUCT SHALL BEAR A RECTANGULAR OR SQUARE SYMBOL FOR UNLIMITED LENGTH OF RUN OUT OR AS PER LOCAL CODE.
- 7. ALL METAL DUCT AND AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-6, 2" X .75 DENSITY FOIL-BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]-[50].
- 8. ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.
- 9. ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE). INTERNALLY LINED DUCTWORK IS NOT ALLOWED.
- 10. UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS SHALL HAVE A MANUAL VOLUME CONTROL DAMPER. (SEE DAMPER SYMBOLS EXPRESSED ON PLAN.
- 11. THE HVAC CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.
- 12. THE HVAC CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING A ONE-YEAR PERIOD FOR ALL HVAC EQUIPMENT AND PROVIDE AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE RTUS. ALL FANS TO BE U.L. LISTED.
- 13. UPON COMPLETION OF PROJECT, THE HVAC CONTRACTOR IS TO PROVIDE A CERTIFIED TEST AND BALANCE, AND A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO WITHIN ±10% OF AMOUNTS INDICATED ON THE FLOOR PLAN AND SCHEDULES.
- 14. THE HVAC CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, RTUS, AND SMOKE DETECTORS.

- . IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. ALL MATERIAL MUST BE STORED INSIDE THE BUILDING. FRYER HOOD MUST BE STORED IN THE KITCHEN NEAR PROPOSED LOCATION AWAY FROM THE RISK OF DAMAGE..
- 2. ALL ROOF, CEILING, WALL, AND STRUCTURAL FRAMING REQUIRED FOR UNIT, FAN, DUCT, DIFFUSER, AND ALL OTHER HVAC WORK SHALL BE BY THE G.C. COORDINATE ON SITE WITH HVAC CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER FBC AND LOCAL CODES.
- 3. ROOF FRAMING SIZES ARE BASED OFF OF THE FAN & ROOF TOP UNIT EQUIPMENT SCHEDULES. IF OTHER EQUIPMENT IS USED, VERIFY ROOF FRAMING REQUIREMENTS WITH SCHEDULES. COORDINATE ON SITE WITH HVAC CONTRACTOR. ROOFING MATERIAL SHALL NOT COVER THE TOP OF ANY ROOF

- THE ELECTRICAL CONTRACTOR SHALL ROUTE HIGH & LOW VOLTAGE WIRING CONTROL WIRING, LOW VOLTAGE WIRING SHALL BE FURNISHED BY THE HVAC CONTRACTOR. LOW & HIGH VOLTAGE WIRING MAY NOT BE IN THE SAME CONDUIT. WIRING MAY NOT ENTER OR EXIT CURB AT ANY POINT. ALL WIRING SHALL ENTER ROOF TOP UNIT AT OUTER ACCESS. USE WEATHER PROTECTED CONNECTIONS, BOXES & CONDUIT. DISCONNECTS SHALL BE PROVIDED BY THE E.C. FOR ALL REQUIRED ROOF EQUIPMENT.
- 2. THE ELECTRICAL CONTRACTOR SHALL USE A MINIMUM OF 4'-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
- 3. FOR EACH UNIT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE T-STAT, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR.
- 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERLOCKING DEVICES REQUIRED BETWEEN THE HOODED APPLIANCES & HVAC TO COMPLY WITH NFPA-96, INCLUDING THE INSTALLATION OF THE NCA INTERLOCK PANEL PER SHEET M-5, THIS SET. THE PANEL FULLY COMPLIES WITH NFPA-96. ELECTRICAL DISTRIBUTION PLANS & SCHEDULES SHALL BE FORWARDED TO NCA FOR THE PRODUCTION OF THE PANEL PRIOR TO ROUGH-IN DISCIPLINES OF THE ELECTRICAL CONTRACTOR TO ROUTE HIGH VOLTAGE CIRCUITS THROUGH ASSIGNED DRY CONTACT TERMINALS IN PANEL & FOR FIELD LOCATION. CONTACTOR PANEL MUST BE IN PLACE PRIOR TO HIGH VOLTAGE ROUGH-IN. IF PANEL IS NOT USED THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALLL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES.

(7) PROVIDE CLEANOUT AT TOP OF HOOD AND BASE OF VERTICAL DUCT. CLEANOUTS

(8) SEE DIFFUSER SCHEDULE FOR NECK SIZE. DIFFUSER NECK SIZE DICTATES FLEX

(10) ELECTRIC DUCT HEATER FOR PREHEATING OUTSIDE AIR DURING HEATING

SEASON. SEE MECHANICAL SCHEDULES M6.1. FOLLOW ALL MANUFACTURER

(11) CONDENSATE DRAIN TO BE RUN FULL SIZE (1-1/4") SLOPE DOWN WITH 1/8" PER

(12) CEILING-MOUNTED UNIT SUSPENDED FROM STRUCTURE, BY CONTRACTOR.

(13) TOILET EXHAUST FAN TO BE OPERATED BY SPACE OCCUPANCY SENSOR.

FOOT TO NEAREST WASTE STACK OF NEAREST SINK. CONNECT CONDENSATE

DRAIN TO WASTE STACK VIA A P-TRAP WITH 1" AIR GAP. CONDENSATE PIPE SHALL

GREASE DUCTS.

DUCT DIAMETER.

INSTALLATION INSTRUCTIONS

NOT BE CONNECTED DIRECTLY TO WASTE LINE.

9 N/A

TO BE INSTALLED EVERY 10 FEET AS REQUIRED ON HORIZONTAL PORTION OF

- 1. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL CONDENSATE DRAINS DOWNSTREAM OF P-TRAPS FOR A/C EQUIPMENT & DISPOSE OF CONDENSATE AT AN APPROVED LOCATION. DO NOT PENETRATE RTU CURB FOR MOUNTING OR OTHER.
- 2. THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10'-0" MINIMUM CLEARANCE REQUIRED OR PER LOCAL CODE.
- 3. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-0" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.



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	Revisions		
No.	Description	Date	

DOB Approval Stamp:



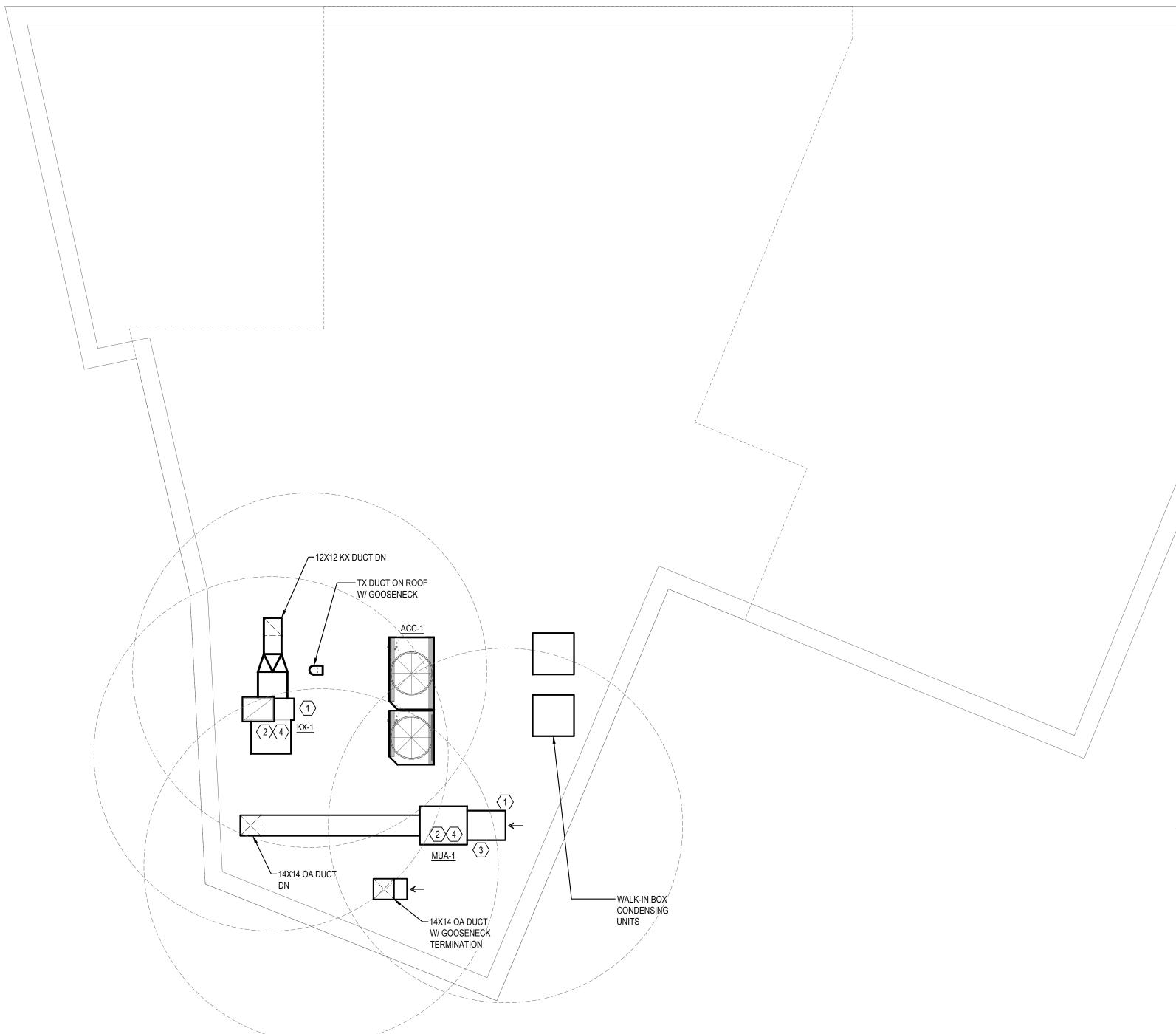
Popeyes Louisiana Kitchen

102-18 Roosevelt Avenue Queens, NY 11368

> Mechanical Plan First Floor

Project No. Z012-20	
Date: 03/10/2021	
Drawn By: RSE	
Scale: 1/4" = 1'-0"	
NY License No. 042821	

DOB NOW Job No:



MECHANICAL PLAN - ROOF

1/4"=1'-0"

SHEET NOTES

- $\langle 1 \rangle$ ALL OA INLETS TO BE 10 FEET AWAY FROM ALL EXHAUSTS. CLEARANCE FROM NEIGHBORING EXHAUSTS AND INLETS TO BE COORDINATED IN FIELD AS REQUIRED. CONTRACTOR RESPONSIBLE FOR ANY OFFSETS IN EXHAUST DUCT REQUIRED TO MAINTAIN CLEARANCES.
- $\langle 2 \rangle$ ALL HOOD EXHAUST FANS AND MAKEUP AIR UNIT TO BE TESTED IN FIELD AND VERIFIED BY A CERTIFIED ACTION AIR CONTRACTOR FOR AIR FLOW RATES AS SPECIFIED. CONTRACTOR SHALL MANUALLY ADJUST AIR FLOWS AS REQUIRED.
- (3) MAKEUP AIR UNIT WITH SIDE DISCHARGE MOUNTED ON CONCRETE HOUSEKEEPING PAD.
- 4 MAKE UP AIR UNIT AND KX TO BE COORDINATED WITH VENDOR BEFORE FINAL

DRAWING NOTES

- THE HVAC CONTRACTOR SHALL INSTALL THE TYPE 1 FRYER HOODS LEVEL & AT THE PROPER LOCATION, GREASE RISERS, ALL HVAC ROOF CURBS, RTU'S, ALL HVAC DUCTWORK, GRILLES, HVAC CONTROLS AS NOTED, INCLUDING SMOKE DETECTORS. REFER TO THE HOOD SHEETS FOR PROPER HOOD INFORMATION. THE HVAC CONTRACTOR SHALL INSTALL GREASE RATED EXHAUST DUCT FROM THE HOOD COLLAR TO THE BASE OF THE EXHAUST FANS ON THE ROOF PER NFPA96 AND LOCAL CODES. FLARE GREASE EXHAUST RISER AT THE TOP TO THE OPENING OF THE VENTURI OF FAN. THE HVAC CONTRACTOR SHALL VERIFY LOCATIONS OF EXHAUST FANS AND THE HOODS ON SITE WITH DIRECT COORDINATION WITH THE G.C. THE G.C. SHALL SIGN OFF ON THE LOCATION OF FRYER HOOD, SO THAT RISERS CAN BE FIT PROPERLY. TRUSS ENG. GROUP ALLOW SPACING FOR GREASE RISER TO PASS THRU CENTER OF TRUSS BAY AT 2 LOCATIONS. G.C. SHALL COORDINATE STRUCTURAL FRAMING TO ACCOMMODATE PLUM RISERS. G.C. SHALL PROVIDE PERIMETER FRAMING & PENETRATIONS AT ALL ROOF CURBS.
- 2. SEE NCA PACKAGE SCHEDULE NOTES FURNISHED ITEMS FOR HVAC INSTALLATION. ALL NON-FURNISHED ITEMS NECESSARY TO COMPLETE THE DESIGN INTENT OF THESE DOCUMENTS SHALL BE BY THE HVAC CONTRACTOR.
- 3. ALL NCA PROVIDED ROOF CURBS SHALL BE FABRICATED FROM 18 GA. G-90 MTL. WITH FULLY WELDED SEAMS, WATER TIGHT AND INTERNALLY INSULATED. FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.
- 4. SHIMS SHALL BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH ON BUILT UP ROOFS ONLY. OTHER ROOF CONSTRUCTIONS SHALL BE EVALUATED FOR BUILT-IN PITCH ON
- 5. ALL FLEX DUCT SHALL BE U.L. LISTED, R-6 BENEATH THERMAL BLDG. ENVELOPE & R-8 WHEN CEILING INSULATION IS USED. FLEX SHALL BE FOIL-BACKED, CLASS 1 AIR DUCT WITH FIRE AND SMOKE RATING [25]-[50].
- 6. FLEX DUCT SHALL BEAR A RECTANGULAR OR SQUARE SYMBOL FOR UNLIMITED LENGTH OF RUN OUT OR AS PER LOCAL CODE.
- 7. ALL METAL DUCT AND AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-6, 2" X .75 DENSITY FOIL-BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]-[50].
- 8. ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.
- 9. ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE). INTERNALLY LINED DUCTWORK IS NOT ALLOWED.
- 10. UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS SHALL HAVE A MANUAL VOLUME CONTROL DAMPER. (SEE DAMPER SYMBOLS EXPRESSED ON PLAN.
- 11. THE HVAC CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.
- 12. THE HVAC CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING A ONE-YEAR PERIOD FOR ALL HVAC EQUIPMENT AND PROVIDE AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE RTUS. ALL FANS TO BE U.L. LISTED.
- 13. UPON COMPLETION OF PROJECT, THE HVAC CONTRACTOR IS TO PROVIDE A CERTIFIED TEST AND BALANCE, AND A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO WITHIN ±10% OF AMOUNTS INDICATED ON THE FLOOR PLAN AND SCHEDULES.
- 14. THE HVAC CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, RTUS, AND SMOKE DETECTORS.

- I. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. ALL MATERIAL MUST BE STORED INSIDE THE BUILDING. FRYER HOOD MUST BE STORED IN THE KITCHEN NEAR PROPOSED LOCATION AWAY FROM THE RISK OF DAMAGE..
- 2. ALL ROOF, CEILING, WALL, AND STRUCTURAL FRAMING REQUIRED FOR UNIT, FAN, DUCT, DIFFUSER, AND ALL OTHER HVAC WORK SHALL BE BY THE G.C. COORDINATE ON SITE WITH HVAC CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER FBC AND LOCAL CODES.
- ROOF FRAMING SIZES ARE BASED OFF OF THE FAN & ROOF TOP UNIT EQUIPMENT SCHEDULES. IF OTHER EQUIPMENT IS USED, VERIFY ROOF FRAMING REQUIREMENTS WITH SCHEDULES. COORDINATE ON SITE WITH HVAC CONTRACTOR. ROOFING MATERIAL SHALL NOT COVER THE TOP OF ANY ROOF

- THE ELECTRICAL CONTRACTOR SHALL ROUTE HIGH & LOW VOLTAGE WIRING CONTROL WIRING, LOW VOLTAGE WIRING SHALL BE FURNISHED BY THE HVAC CONTRACTOR. LOW & HIGH VOLTAGE WIRING MAY NOT BE IN THE SAME CONDUIT. WIRING MAY NOT ENTER OR EXIT CURB AT ANY POINT. ALL WIRING SHALL ENTER ROOF TOP UNIT AT OUTER ACCESS. USE WEATHER PROTECTED CONNECTIONS, BOXES & CONDUIT. DISCONNECTS SHALL BE PROVIDED BY THE E.C. FOR ALL REQUIRED ROOF EQUIPMENT.
- 2. THE ELECTRICAL CONTRACTOR SHALL USE A MINIMUM OF 4'-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
- 3. FOR EACH UNIT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE T-STAT, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR.
- 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERLOCKING DEVICES REQUIRED BETWEEN THE HOODED APPLIANCES & HVAC TO COMPLY WITH NFPA-96, INCLUDING THE INSTALLATION OF THE NCA INTERLOCK PANEL PER SHEET M-5, THIS SET. THE PANEL FULLY COMPLIES WITH NFPA-96. ELECTRICAL DISTRIBUTION PLANS & SCHEDULES SHALL BE FORWARDED TO NCA FOR THE PRODUCTION OF THE PANEL PRIOR TO ROUGH-IN DISCIPLINES OF THE ELECTRICAL CONTRACTOR TO ROUTE HIGH VOLTAGE CIRCUITS THROUGH ASSIGNED DRY CONTACT TERMINALS IN PANEL & FOR FIELD LOCATION. CONTACTOR PANEL MUST BE IN PLACE PRIOR TO HIGH VOLTAGE ROUGH-IN. IF PANEL IS NOT USED THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALLL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES.

- 1. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL CONDENSATE DRAINS DOWNSTREAM OF P-TRAPS FOR A/C EQUIPMENT & DISPOSE OF CONDENSATE AT AN APPROVED LOCATION. DO NOT PENETRATE RTU CURB FOR MOUNTING OR OTHER.
- 2. THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10'-0" MINIMUM CLEARANCE REQUIRED OR PER LOCAL CODE.
- 3. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-0" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.



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Revisions		
No.	Description	Date

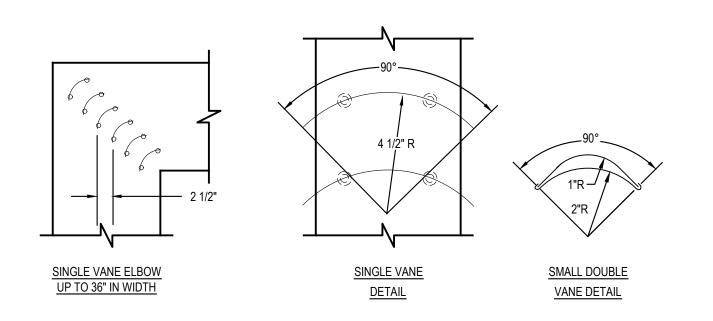
Popeyes Louisiana Kitchen

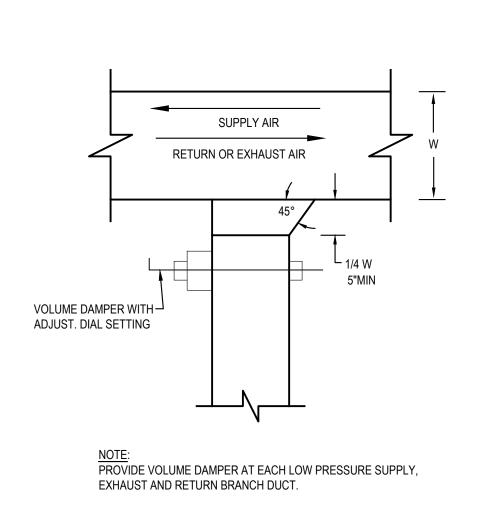
102-18 Roosevelt Avenue Queens, NY 11368

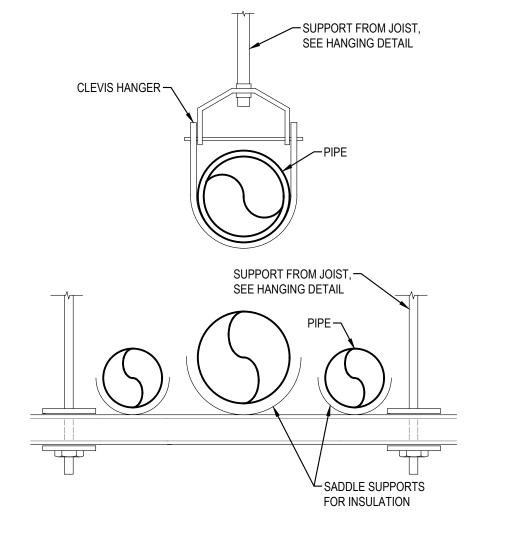
> Mechanical Roof Plan

Project No. Z012-20	
Date: 03/10/2021	
Drawn By: RSE	
Scale: 1/4" = 1'-0"	
NY License No. 042821	

DOB NOW Job No:







/--METAL DECK, TYP.

SEE ARCH. DWGS

—TOP CHORD

-BAR JOIST, TYP.

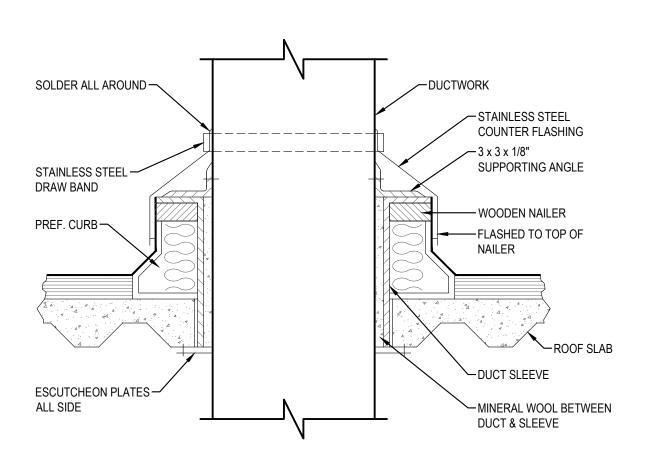
CHORD (TYP.)

─3/8" STEEL THREADED ROD

SEE ARCH.

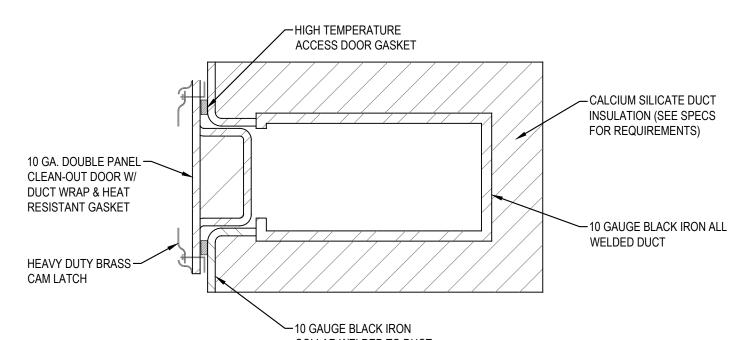
DWGS.

-BOTTOM



LOW VELOCITY DUCTWORK ELBOWS

NOT TO SCALE





BEAM CLAMP W/ -

LOCK NUT (TYP.)

1 1/4 x 1 1/4 x 3/16 REQ'D STEEL

ANGLE SUPPORTS BTWN. BAR JOISTS AT BTM. CHORD. ONLY INSTALL ANGLE STEEL AT THE

PANEL PTS. OF THE BAR JOISTS.

METAL DECK, TYP.

SEE ARCH. DWGS

←BAR JOIST, TYP.

BEAM CLAMP W/ -

LOCK NUT (TYP.)

SEE ARCH.

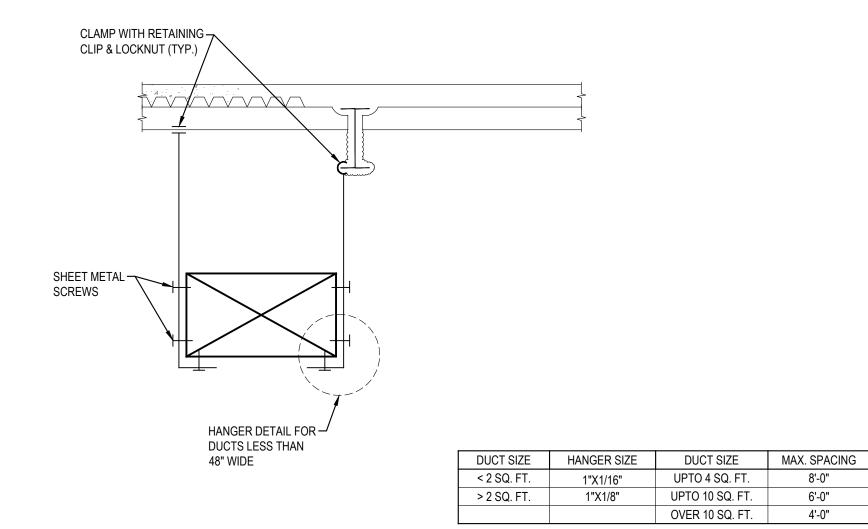
DWGS.

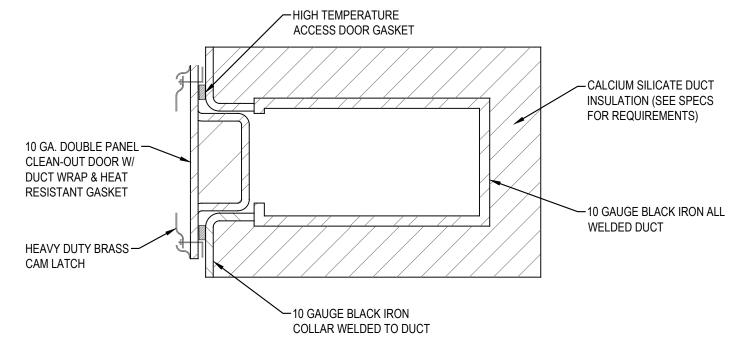
- 3/8" STEEL THREADED ROD





SPECIFICATION REQUIREMENTS SHALL APPLY WHERE THEY EXCEED THOSE INDICATED IN THIS DETAIL.





1. MAXIMUM LOAD FOR THIS ARRANGEMENT IS 100 LBS TOTAL WEIGHT. CONNECTING DUCTWORK IS TO BE SUPPORTED INDEPENDENTLY.

STRUCTURAL ENGINEER.

3. COORDINATE ALL STRUCTURE ATTACHMENTS TO THE EXISTING SLAB WITH THE

 SUPPLEMENTARY STEEL ANGLE OR CHANNEL SUPPORT WELDED TO BEAM FLANGE. ALL

DAMAGED FIREPROOFING TO BE REPLACED SO

SIZE OF STEEL TO SUIT EQUIPMENT WEIGHT.

-3/8" DIA. MINIMUM HANGER

RODS WITH HEX NUTS AND

LOCK WASHERS

AS NOT TO COMPROMISE BUILDING FIRE RATING.

KITCHEN EXHAUST DUCT WITH CLEAN OUT DOOR DETAIL

THREADED HANGER ROD, -

SPRING & NEOPRENE TYPE —

VIBRATION ISOLATORS

HANGER ARRANGEMENT -

(TYPICAL FOR EACH

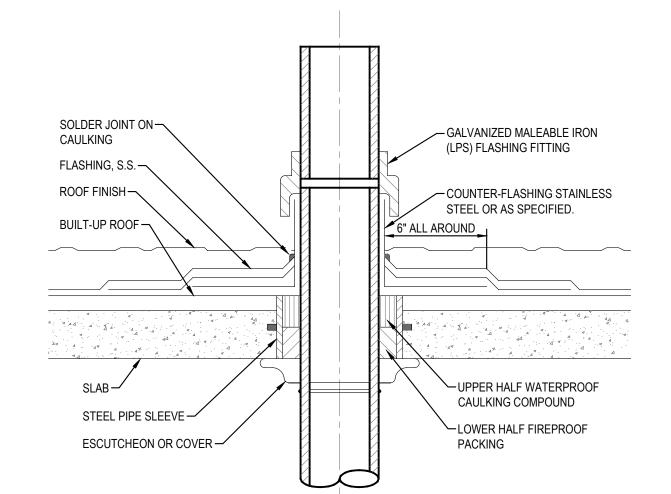
CORNER OF FAN)

(4 REQUIRED)

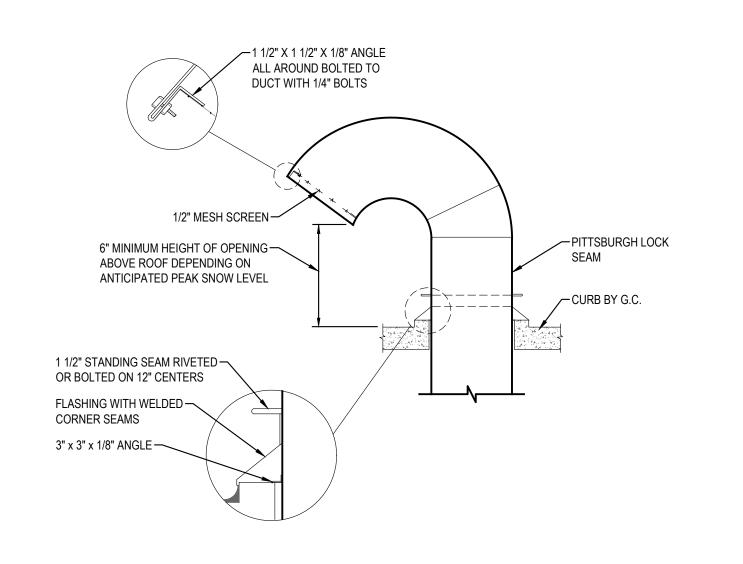
SIZE TO SUIT EQUIPMENT

WEIGHT





DUCT SUPPORT DETAIL - STRUCTURAL STEEL



IN-LINE FAN HANGER

NOT TO SCALE

PIPING PENETRATION THRU ROOF SLAB NOT TO SCALE

GOOSENECK DETAILS NOT TO SCALE

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45 Sussex Avenue

Newark, New Jersey 07103

Revisions

Date

Description

DOB Approval Stamp:

Popeyes Louisiana Kitchen

102-18 Roosevelt Avenue Queens, NY 11368

> Mechanical **Hood Details**

Project No. Z012-20	
Date: 03/10/2021	
Drawn By: RSE	
Scale: Not to Scale	
NY License No.	

DOB NOW Job No:

M-401.00

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	VI O		· / \	· - · · ·							
	PERFORMANCE				POWE	ER		AIRFLOW			
DESIGNATION	KW	STAGES	EAT (°F)	LAT (°F)	VOLT/Ø/Hz	AMPS	DUCT SIZE	VELOCITY (FPM)	OPERATING CFM	MANUFACTURER/ MODEL NO.	COMMENTS
EDH-1	10	1	0	40	208/3/60	27.8	12X12	755	755	GREENHECK/ IDHB	SEE NOTES

- DISCONNECT SWITCH AUTOMATIC THERMAL CUTOUT 7. SCR CONTROLLER
- CONTROL FUSE
- TRANSFORMER W/ FUSE 5. NEPTRONIC CONTROLLER
- 6. ELECTRONIC AIRFLOW SENSORS
- 8. COIL GRADE A (NiCr 80) 9. CONTROL PANEL NEMA 1 CONTROL BOX W/ LEFT EXT.

AIR OUTLET SCHEDULE

DESIGNATION	TYPE	FRAME SIZE	DUCT SIZE	FINISH	OPENING SIZE	QTY	MANUFACTURER/ MODEL
CD-1	SUPPLY 4 WAY	12X12	6"Ø	WHITE	T-BAR	1	5700
CD-2	SUPPLY 4 WAY	24X24	10"Ø	WHITE	T-BAR	-	5700
CD-3	SUPPLY PERFORATED	12X12	10"Ø	WHITE	T-BAR		7550R -F
RG-1	RETURN	24X24	SEE PLAN	WHITE	T-BAR		RH
RG-2	RETURN	48X24	SEE PLAN	WHITE	T-BAR	-	RH

AIR OUTLET SCHEDULE NOTES:

ALL DIFFUSERS SHALL BE MANUFACTURED BY METALAIRE AND 100% ALUMINUM CONSTRUCTION

AIR BALANCE SCHEDULE

DESIGNATION	SUPPLY AIR CFM	OUTSIDE AIR CFM	RETURN AIR CFM	EXHAUST AIR CFM	BLDG PRESSURE CFM	% OUTSIDE AIR
AC-1	1110	150	960		+ 150	13.5
AC-2	1110	150	960		+ 150	13.5
AC-3	1766	300	1466		+ 300	17
AC-4	2855	155	2700		+ 155	6
KX-1		-		1715	- 1715	
TX-1		-		100	- 100	
MUA-1		1060			+ 1060	
TOTAL	6841	1815	6086	1815	+ 0	26.5

VRF INDOOR UNIT SCHEDULE

			PERFORMA	ANCE	POV	VER	AIF	RFLOW (CI	FM)		REFRIGER	RANT	UNIT I	DIMENSION	` '		COLIND		
DESIGNATION	QTY	LOCATION	COOLING TOTAL / SENSIBLE (BTU/H)	HEATING (BTU/H)	VOLT/Ø/Hz	MCA	HIGH	MED.	LOW	TYPE	GAS FLARE (IN)	LIQUID FLARE (IN)	HEIGHT	WIDTH	DEPTH	WEIGHT (LBS)	SOUND PRESS: LVL (dBA)(HIGH)	MANUFACTURER/ MODEL NO	COMMENTS
AC-1	1	BOH AREA	30,600 / 21,500	38,400	208/1/60	1.74	1,110	895	675	R410A	3/4	3/8	10-5/8	44-11/16	27-9/16	86	41	FUJITSU ARUM36TLAV2	
AC-2	1	POS AREA	30,600 / 21,500	38,400	208/1/60	1.74	1,110	895	675	R410A	3/4	3/8	10-5/8	44-11/16	27-9/16	86	41	FUJITSU ARUM36TLAV2	
AC-3	1	CUSTOMER AREA	48,000 / 41,800	54,000	208/1/60	4.83	1,766	1,589	1,354	R410A	3/4	3/8	10-5/8	44-11/16	27-9/16	101	41	FUJITSU ARUH48TLAV2	
AC-4	1	FOOD PREP	81,700 / 54,600	103,700	208/1/60	9.4	2,855	2,500	2,120	R410A	7/8	1/2	21-5/8	62-1/2	27-9/16	231	48	FUJITSU ARUH96TI AV2	

OPTIONS AND ACCESSORIES:

- I. IF NECESSARY, PROVIDE CONDENSATE PUMP FOR EACH RESPECTIVE INDOOR UNIT.
- WIRELESS REMOTE CONTROLLER PROVIDED FOR EACH UNIT.

VRF OUTDOOR UNIT SCHEDULE

			PERFORM/	ANCE				POV	VER		PII		UNIT [DIMENSION	IS (IN)		COLIND	OPER/			
DESIGNATION	QTY	LOCATION	NOMINAL RATED COOLING (BTU/H)	NOMINAL RATED HEATING (BTU/H)	EER	IEER	COP @ 47°F	VOLT/Ø/Hz	MCA	МОСР	LIQUID (IN)	GAS (IN)	HEIGHT	WIDTH	DEPTH		SOUND PRESS: LVL (dBA)(HIGH)			MANUFACTURER/ MODEL NO.	COMMENTS
ACC-1	1	SEE PLANS	192,000	216,000	11.2	24.3	3.75	208/3/60	91	110	1-1/8	7/8	66-9/16	85-7/16	30-1/8	1236	63	14~115°F	-4~70°F	FUJITSU AOUA192TLBVG	SEE OPTIONS AND ACCESSORIES

OPTIONS AND ACCESSORIES:

- PROVIDE EXTENDED WARRANTY FOR COMPRESSOR.
- PROVIDE MOUNTING PAD.
- PROVIDE PORT ADAPTERS AS NEEDED. 4. PROVIDE WITH MAIN CONTROLLER
- PERFORMANCE NOTE:
- 1. NOMINAL COOLING PERFORMANCE BASED ON INDOOR 80°F DB/67°F WB
- AND OUTDOOR 95°F DB/75°F WB. NOMINAL HEATING PERFORMANCE BASED ON INDOOR 70°F DB/60°F WB AND OUTDOOR 47°F DB/43°F WB.
- 2. RATED PERFORMANCE BASED ON AHRI SPECIFICATIONS.

FAN SCHEDULE

DESIGNATION	AREA SERVED	CFM	TOTAL STATIC PRESSURE (IN W.G.)	FAN HP	DRIVE	RPM	ELECTRICAL VOLT/Ø/Hz	NCA CURB SIZE (LxWxH)	ACCESSORIES	MANUFACTURER/ MODEL	COMMENTS
TX-F	RESTROOM	100	0.24		DIRECT		115/1			GREENHECK / SP-B110	

GREENHECK OPTIONS AND ACCESSORIES:

- UL/cUL 507 LISTED ELECTRIC FAN
- ROUND HOODED WALL CAP, PN: WC-6, SHIPPED LOOSE ROUND DUCT CONNECTION
- **ENERGY STAR RATED**

OUTSIDE AIR FAN SCHEDULE

	O I OID			' '	OLL									
D	DESIGNATION	FAN UNIT MODEL #	MIN. CFM	DESIGN CFM	ESP (IN W.G.)	H.P.	B.H.P.	FAN RPM	ELECTRICAL VOLT/Ø/Hz	FLA	WEIGHT	SONES	DESIGN KW	TEMP. RISE
	OAF-1	GREENHECK SQ-99-VG	-	755	0.50	0.18	-	1513	115/1/60	-		11.7	-	

GREENHECK OPTIONS AND ACCESSORIES:

- MOTOR VARI-GREEN EC MOTOR
- CONTROL VARI-GREEN DIAL ON EXTERIOR OF FAN HOUSING, MOUNTED AND WIRED
- SWITCH, NEMA-1, TOGGLE, SHIPPED WITH UNIT
- JUNCTION BOX MOUNTED & WIRED
- ALUMINUM WHEEL MATERIAL ISOLATORS & BRACKETS, SPRING HANGING

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> Mechanical Schedules

Project No. Z012-20	
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Drawn By: RSE	
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M-601.00