

# Domino's™

# DOMINO'S PIZZA BAKERY STORE #1684 PIZZA THEATER TENANT IMPROVEMENT 3544 SW MARKET ST LEE'S SUMMIT, MO 64082

## GENERAL CONDITIONS:

- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO MAKE THEMSELVES FAMILIAR WITH THE GENERAL CONDITIONS, PLANS, AND SPECIFICATIONS AND OTHER NOTES OR REFERENCES RELATED TO THIS PROJECT SO AS TO POSSESS FULL COMPREHENSION OF THE WORK THEY ARE TO PERFORM. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- NOTHING IN THE PLANS, SPECIFICATIONS, NOTES OR REFERENCES SHALL BE INTERPRETED SO AS TO ELIMINATE ANY REQUIREMENTS OR PROVISIONS OF NATIONAL, STATE, COUNTY, OR LOCAL BUILDING CODES AND ORDINANCES. ALL CONTRACTORS ARE RESPONSIBLE FOR FULL KNOWLEDGE OF, AND COMPLIANCE WITH THE FOREMENTIONED REGULATIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BEFORE BEGINNING THEIR WORK.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE SITE TO VERIFY ALL FIELD CONDITIONS AND DIMENSIONS RELATED TO THEIR WORK. THE GENERAL CONTRACTOR SHALL THEN SUBMIT A WRITTEN PROPOSAL OF HIS SCOPE OF WORK TO DOMINO'S FOR AN APPROVAL. ANY DISCREPANCIES OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT BEFORE BEGINNING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL CONSULT WITH THE SUBCONTRACTORS AND COORDINATE THE WORK IN ORDER TO ADHERE TO THE SCHEDULE AGREED UPON BY DOMINO'S.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
  - PROVIDE SCHEDULE OF WORK TO DOMINO'S PRIOR TO COMMENCING CONSTRUCTION.
  - OBTAINING ANY AND ALL PERMITS.
  - SCHEDULING ALL INSPECTIONS.
  - PROVIDING CERTIFICATE OF OCCUPANCY AND FINAL HEALTH INSPECTION.
  - THE CONTRACTOR SHALL PROVIDE THE FOLLOWING WITH FINAL INVOICE:
    - ORIGINAL OR CLEAR PHOTO COPIES OF CERTIFICATE OF OCCUPANCY PERMIT AND HEALTH INSPECTION REPORT.
    - LISTING OF SUBCONTRACTORS AND AREA OF RESPONSIBILITY, COMPLETE WITH TRADE NAME, OWNER'S NAME, ADDRESS, TELEPHONE NUMBER AND FEDERAL ID NUMBER.
    - PROPERLY EXECUTED LIEN WAIVER.
    - SERIAL NUMBERS, DATE OF MANUFACTURE OF ALL INSTALLED HVAC EQUIPMENT, MAKELINE AND WALK-IN COOLER BOX.
- UNLESS INDICATED "BY OTHERS" ON THE PLANS OR IN THE SPECIFICATIONS OR OTHERWISE DIRECTED BY DOMINO'S, THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL SUPPLY ALL LABOR AND MATERIALS AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY SHOWN ON THE PLANS OR IN THE SPECIFICATIONS BUT OBVIOUSLY NECESSARY FOR THE COMPLETE AND PROPER INSTALLATION OF THEIR ELEMENTS OF WORK.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL TURN OVER ALL WRITTEN OPERATING INSTRUCTIONS AND WARRANTIES FOR EQUIPMENT TO THE OWNER AT THE COMPLETION OF WORK.
- ALL WORK PERFORMED BY THE CONTRACTOR AND SUBCONTRACTORS, INCLUDING MATERIALS AND LABOR SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY DOMINO'S.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS, AT THE COMPLETION OF THEIR WORK, SHALL LEAVE THE SITE CLEAN AND FREE OF DEBRIS RELATED TO THEIR WORK, AND THE STORE FINISHED TO PASS HEALTH INSPECTIONS AND MADE READY TO COMMENCE WITH THE BUSINESS OF FOOD PREPARATION.
- THE USE OF BRAND NAMES, CATALOGUE NUMBERS OR NAMES OF MANUFACTURERS IS SOLELY FOR THE PURPOSE OF ESTABLISHING THE TYPE AND QUALITY THAT WILL BE ACCEPTABLE. UNLESS SPECIFICALLY PROHIBITED IN THE SPECIFICATIONS, SUBSTITUTION WILL BE PERMITTED AFTER SUBMITTAL TO AND WRITTEN APPROVAL BY DOMINO'S.
- IT IS RECOMMENDED THAT THE CONTRACTOR ACQUIRE THE DESIGN AND EQUIPMENT BROCHURES FROM DOMINO'S EQUIPMENT & SUPPLY FOR REFERENCE WITH THESE DOCUMENTS.
- GC IS RESPONSIBLE FOR MEANS AND METHODS FOR INSTALLATION OF WORK INDICATED ON THESE DRAWINGS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADDITIONAL DESIGN / BUILD INFORMATION, WHICH MAY BE REQUIRED BY LOCAL CODE AUTHORITIES, WHICH MEETS THE DESIGN CRITERIA IN THESE DOCUMENTS.

## GENERAL NOTES:

- THE OWNER HAS REQUESTED THAT THE ARCHITECT PREPARE THESE DRAWINGS, WHICH ARE LIMITED IN SCOPE, TO ESTABLISH MINIMUM GUIDELINES FOR DESIGN OF THE PROJECT.
- WHERE MATERIALS, ASSEMBLIES, EQUIPMENT, FIXTURES AND SYSTEMS ARE NOT SHOWN, OR ARE SHOWN DIAGRAMMATICALLY, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE SPECIFIC LOCATIONS, PROVIDE SPECIFIC MATERIALS AND DETERMINE CONSTRUCTION DETAILING, ALL IN COMPLIANCE WITH APPLICABLE BUILDING CODES, REGULATIONS, AND INDUSTRY STANDARDS FOR MATERIALS AND METHODS OF INSTALLATION.
- ALL DRAWINGS HAVE BEEN PREPARED WITH THE INTENT OF CURRENT CODE COMPLIANCE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE FULL COMPLIANCE WITH PREVAILING STATE OR LOCAL CODE REQUIREMENTS.
- DO NOT SCALE THE DRAWINGS. IF DIMENSIONAL DISCREPANCIES ARISE, CONTACT THE ARCHITECT.
- DIMENSIONS OF THE EXISTING TENANT SPACE AND NEW DIMENSIONS WHICH RELATE TO THOSE EXISTING DIMENSIONS ARE ASSUMED AND TAKEN FROM INFORMATION PROVIDED BY THE OWNER OR OWNERS REPRESENTATIVES. IT IS IMPERATIVE THAT PRIOR TO THE ORDERING OF PREFABRICATED EQUIPMENT OR COMMENCING CONSTRUCTION THESE DIMENSIONS ARE FIELD VERIFIED TO AVOID CONFLICTS.
- ANY DISCREPANCIES BETWEEN PORTIONS OF THE DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
- ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED OR LABELED FINISHED OPENING (F.O.).
- ALL CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE BUILDING CODES AND LOCAL DESCRIPTIONS.
- ALL ELECTRICAL, MECHANICAL AND PLUMBING WORK SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS.
- CONSTRUCTION MAY NOT BEGIN UNTIL APPROVAL HAS BEEN GRANTED BY DOMINO'S. THESE DRAWINGS ARE SUBJECT TO DOMINO'S APPROVAL.

## PROJECT DIRECTORY:

### OWNER / DEVELOPER

DESZ MANAGEMENT LLC DBA DOMINO'S  
3901 BLUE RIDGE CUTOFF  
KANSAS CITY, MO 64133  
TEL: (816)501-8388  
E: SCOVEY@DTPIZZA.COM

### ARCHITECT CONTACT INFORMATION

GNICH ARCHITECTURE STUDIO, LLC  
AN OREGON LIMITED LIABILITY COMPANY  
1001 SE SANDY BLVD, SUITE 100  
PORTLAND, OR 97214  
TEL: (503) 552-9079  
FAX: (503) 241-7055  
ATTN: DAVID COBIELLA, PROJECT MANAGER  
DAVIDC@GNICHARCH.COM

### SUBMITTALS BY OTHERS:

#### EXTERIOR SIGNAGE

SIGN VENDOR SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING SEPARATE SIGNAGE PERMITS AS REQUIRED BY LOCAL JURISDICTION.

#### FIRE ALARM SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

#### KITCHEN HOOD FIRE SUPPRESSION SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

#### FIRE SUPPRESSION / SPRINKLER SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

## DRAWING INDEX:

### GENERAL INFORMATION

- G1.0 COVER SHEET
- G2.0 CONSTRUCTION SPECIFICATIONS/ ACCESSIBILITY DETAILS

### ARCHITECTURAL

- FLS1.0 FIRE/ LIFE SAFETY PLAN
- A1.0 EQUIPMENT LAYOUT/ COUNTER CABINETS/ SCHEDULES
- A2.0 PARTITION & FINISH PLAN/ DETAILS/ MATERIAL SCHEDULE/ DOOR SCHEDULE
- A3.0 REFLECTED CEILING PLAN/ DETAILS
- A4.0 INTERIOR ELEVATIONS/ ART PACKAGE SCHEDULE
- A5.0 INTERIOR ELEVATIONS
- A6.0 INTERIOR DETAILS

### ELECTRICAL

- E1.0 ELECTRICAL ONE-LINE DIAGRAM/ PANEL SCHEDULE/ CALCULATIONS
- E2.0 ELECTRICAL LIGHTING PLAN
- E3.0 ELECTRICAL POWER PLAN

### MECHANICAL

- M1.0 MECHANICAL SCHEDULES, CALCULATIONS AND LEGEND
- M2.0 MECHANICAL PLAN
- M3.0 MECHANICAL DETAILS AND SEQUENCE OF OPERATIONS
- M4.0 MECHANICAL DETAILS
- M5.0 MECHANICAL ENERGY CERTIFICATE
- M6.0 MECHANICAL GENERAL NOTES AND SPECIFICATIONS

### PLUMBING

- P1.0 PLUMBING LEGEND, CALCULATIONS AND SCHEDULES
- P2.0 POTABLE WATER & GAS PLUMBING PLAN
- P2.1 SANITARY SEWER PLUMBING PLAN
- P3.0 PLUMBING DETAILS
- P4.0 PLUMBING SPECIFICATIONS AND GREASE INTERCEPTOR SIZING & DATA

## SYMBOL LEGEND

-  SECTION REFERENCE
-  DOOR SCHEDULE REFERENCE
-  CENTERLINE
-  MASTER MATERIAL SCHEDULE REFERENCE
-  EQUIPMENT SCHEDULE REFERENCE
-  ART PACKAGE REFERENCE
-  WALL ASSEMBLY TYPE REFERENCE
-  CABINET SCHEDULE REFERENCE
-  FURNITURE SCHEDULE REFERENCE
-  ELEVATION REFERENCE
-  ENLARGED DETAIL REFERENCE
-  REVISION TAG
-  REVISION CLOUD

## PROJECT STATISTICS:

### SCOPE

THIS DOMINO'S PIZZA THEATER TENANT IMPROVEMENT PROJECT INCLUDES: THE ADDITION OF NEW INTERIOR PARTITIONS, CASEWORK, FIXED FURNITURE, KITCHEN EQUIPMENT, PLUMBING FIXTURES, ELECTRICAL DISTRIBUTION AND MECHANICAL SYSTEMS FOR A RETAIL FOOD BAKERY AND STORE.

### CODE SUMMARY

- BUILDING CODE 2018 IBC
- MECHANICAL CODE 2018 IMC
- PLUMBING CODE 2018 IPC
- ENERGY CODE 2018 IECC
- FUEL GAS CODE 2018 IFGC
- FIRE CODE 2018 IFC
- ELECTRICAL CODE 2017 NEC

ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

DOMINO'S PIZZA BAKERY IS INTENDED PRIMARILY FOR DELIVERY AND CARRY OUT WITH MINIMAL SEATING FOR WAITING CUSTOMERS.

IBC SECTION 303.1 EXCEPTION 1. A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY.

### BUILDING DATA

- CONSTRUCTION TYPE VB
- AUTOMATIC SPRINKLER SYSTEM YES
- TOTAL AREA OF DOMINO'S TENANT SPACE: 1,220 S.F. GROSS

### OCCUPANT LOAD SUMMARY

OCCUPANCY CLASSIFICATION: GROUP B (LESS THAN 50 OCCUPANTS)

IBC SECTION 303.1 EXCEPTION 2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.  
EXCEPTION 3. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

LOBBY AREA  
GROSS AREA = 106 S.F.  
LOAD FACTOR @ 1/100 BUSINESS  
OCCUPANT LOAD = 2

PRODUCTION AREA  
GROSS AREA = 472 S.F.  
LOAD FACTOR @ 1/200 KITCHEN, COMMERCIAL  
OCCUPANT LOAD = 3

STORAGE AREA  
GROSS AREA = 591 S.F.  
LOAD FACTOR @ 1/300 ACCESSORY STORAGE  
OCCUPANT LOAD = 2

TOTAL OCCUPANT LOAD = 7

EXITS:  
CUSTOMER AREA = 1  
TOTAL EXITS = 2

7 PERSONS IN THIS SPACE X .20' / PERSON = 1.4 INCHES MIN. REQ'D  
EXIT WIDTH PROVIDED = 73.5 INCHES PROVIDED

TOILETS:  
TOTAL NUMBER OF TOILET FACILITIES = 1 PROVIDED

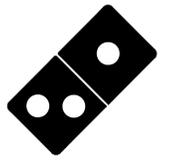
ITEM	RESPONSIBILITY SCHEDULE										REMARKS	
	PROVIDED BY OWNER	INSTALLED BY OWNER	PROVIDED BY GC	INSTALLED BY GC	BY SUBCONTRACTOR	BY OWNER	BY GC	BY SUBCONTRACTOR	BY OWNER	BY GC		
DIVISION 01 - GENERAL REQUIREMENTS												
PERMITS, FEES, AND INSURANCE												
PROFESSIONAL CLEANING												
TEMPORARY POWER / WATER												
CERTIFICATE OF OCCUPANCY												
DUMPSTER / TRASH REMOVAL												
DIVISION 02 - SITE WORK												
TRENCHING AND BACKFILL												
SKIRTING AND BRACING												
TEMPORARY BARRICADES												COORDINATE REQUIREMENTS w/ CITY AUTHORITIES
PAVING PATCHING AND REPAIR												
DIVISION 03 - CONCRETE												
FLOOR SLAB CUTTING												AS REQUIRED
CONCRETE SLAB PATCHING AND REPAIR												
DIVISION 04 - MASONRY												
CLAY MASONRY UNITS												
CONCRETE MASONRY UNITS												
DIVISION 05 - METALS												
LIGHT GAUGE METAL FRAMING												
COLD FORMED METAL FRAMING												
DIVISION 06 - WOOD AND PLASTICS												
MISCELLANEOUS BLOCKING												
WOOD MOLDINGS AND TRIM												
FRAMING LUMBER												
FIRE RETARDANT LUMBER / PLYWOOD												
MILLWORK												
PVC TRIM, CHAIR RAIL AND CORNER GUARDS												
DIVISION 07 - THERMAL AND MOISTURE PROTECTION												
INSULATION (DUCTWORK)												H
SEALANTS, FIRESTOPPING AND CAULKING												
BATT, RIGID AND FOAMED INSULATION												IF REQUIRED
SOUND BATT INSULATION												IF REQUIRED
DIVISION 08 - DOORS AND WINDOWS												
DOOR HARDWARE AND EXIT DEVICES												
GLASS AND GLAZING												
INTERIOR DOORS AND FRAMES												
DIVISION 09 - FINISHES												
ACOUSTICAL CEILINGS AND SUSPENSION SYSTEMS												
GYP/SUM BOARD (WALLS, SOFFITS AND CEILINGS)												
FLOOR TILE												
TANK AND/OR SEAMLESS BASE												
REDUCERS AND TRANSITION STRIPS												
PAINTS AND COATINGS												
SHEET GOODS												
DIVISION 10 - SPECIALTIES												
EXTERIOR SIGNAGE												IF REQUIRED
EXTERIOR AWNING												
INTERIOR GRAPHICS PACKAGE (DOOR SIGNS, ETC.)												
ACCESSIBILITY SIGNAGE												
TOILET ROOM ACCESSORIES												
DIVISION 11 - EQUIPMENT												
COMPUTERS / DATA												E.C. TO RUN CONDUIT IF REQUIRED BY LOCAL MUNICIPALITY
TELECOMMUNICATIONS EQUIPMENT												
VIDEO EQUIPMENT												
KITCHEN EQUIPMENT												K
DIVISION 12 - FURNISHINGS												
SEATING												
MISCELLANEOUS DECOR ITEMS												
DIVISION 13 - SPECIAL CONSTRUCTION												
NO WORK REQUIRED UNDER THIS SECTION												
DIVISION 14 - CONVEYING SYSTEMS												
NO WORK REQUIRED UNDER THIS SECTION												
DIVISION 15 - MECHANICAL AND PLUMBING												
WATER SUPPLY												H
DAMPERS												H
DIFFUSER / GRILLES												H
H.V.A.C. HEATING AND COOLING UNITS												H
H.V.A.C. DUCTWORK												H
EXHAUST FANS, UTILITY SETS AND DUCTWORK												
LAVATORY FIXTURES AND WATER HEATER												
SANITARY												
SUPPLY VENT, WASTE PIPING												P, H
KITCHEN EQUIPMENT UTILITY CONNECTIONS												FINAL CONNECTIONS BY EACH TRADE SUB-CONTRACTOR
FIRE PROTECTION SYSTEM (SPRINKLER) (AS REQ.)												S
FIRE PROTECTION SYSTEM (ALARM) (AS REQ.)												FP
EXHAUST HOOD MAKE-UP AIR (AS REQ.)												H
DIVISION 16 - ELECTRICAL												
INTERIOR AND EXTERIOR LIGHT FIXTURES												E
EXIT AND EMERGENCY LIGHTING												E
ELECTRICAL OUTLETS												E
CONDUIT FOR TELEPHONE / DATA WIRES												IF REQUIRED BY LOCAL MUNICIPALITY
FIRE ALARM (AS REQ.)												FP
KITCHEN EQUIPMENT UTILITY CONNECTIONS												E, P, H, FP, G.C.



NOT TO SCALE



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Project No: 5401 / Store #1684

Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64138

ISSUED FOR PERMIT:  
04.22.2021

REV: DATE DESCRIPTION:  
Δ 05.04.21 CITY COMMENTS

SHEET NAME:

COVER SHEET

SHEET NUMBER:

G1.0

## CONSTRUCTION SPECIFICATIONS:

### 01-73-00 DEMOLITION, CUTTING AND PATCHING

DEMOLITION SHALL BE COORDINATED AS REQUIRED AT THE EXISTING SPACE FOR NEW CONSTRUCTION TO COMMENCE. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO ADJACENT PORTIONS OF THE EXISTING BUILDING AND TENANT SPACE. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL DAMAGES AND SHALL EFFECT REPAIRS IMMEDIATELY.

### 03-30-00 CONCRETE

ALL NEW CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 2500 PSI. HIGHER STRENGTH CONCRETE MAY BE USED, AT OWNER'S DISCRETION, FOR FINISH AND DURABILITY PURPOSES.

CONCRETE POURBACK-3000 PSI 4-INCH-DEPTH W/#3 RE-BAR @ 24-INCH O.C. AND 6-INCH DOWELING EMBEDMENT.

### 06-10-00 ROUGH CARPENTRY

ALL NEW INTERIOR PARTITIONS SHALL BE 3-5/8" 20 GA. METAL STUDS @ 16" MIN. O.C. WITH 5/8" GYPSUM BOARD BOTH SIDES, UNLESS NOTED OTHERWISE IN "WALL TYPES" SCHEDULE. 3-1/2" DOUGLAS FIR WOOD FRAMING MAY BE USED IN LIEU OF METAL FRAMING.

GYPSUM BOARD SHALL BE SCREWED 16" O.C. AT INTERMEDIATE STUDS AND 8" O.C. AT JOINTS. ALL JOINTS AND CORNERS SHALL BE TAPED AND SMOOTH FINISHED WITH A THREE COAT PROCESS AT CUSTOMER LOBBY AREAS. WHEN FRP BOARD IS TO BE INSTALLED IN THE NON-CUSTOMER LOBBY AREAS, TAPE AND ONE COAT IS SATISFACTORY.

INSTALL ADEQUATE BLOCKING MATCHING ADJACENT FRAMING AND 5/8" CDX PLYWOOD SHEATHING INSTEAD OF GYPSUM BOARD BEHIND ALL PLUMBING FIXTURES, BARRIER-FREE GRAB BARS, SHELVING, AND ALL WALL-MOUNTED FOOD SERVICE AND COMPUTER EQUIPMENT. REFER TO EQUIPMENT LAYOUT & INTERIOR ELEVATION DRAWINGS FOR LOCATIONS.

IF REQUIRED BY THE MUNICIPALITY, ALL WOOD BLOCKING AND BACKING TO BE FIRE-RETARDANT TREATED.

### 06-60-00 FIBERGLASS REINFORCED PLASTIC (FRP) PANELS

WALL COVERINGS NOT VISIBLE FROM CUSTOMER LOBBY: MARLITE WHITE OR EQUIVALENT FRP (FIBERGLASS REINFORCED PLASTIC) PANELING TO THE UNDERSIDE OF THE SUSPENDED CEILING MINIMUM, WHITE IN COLOR WITH A TEXTURED FINISH. MANUFACTURER RECOMMENDED ADHESIVE SHALL BE USED TO MOUNT THE FRP PANELING. MATCHING TRIM SHALL BE INSTALLED AT THE JOINTS, INSIDE CORNERS AND EXPOSED EDGES. PANELING SHALL BE NOTED OF THE PREMIUM GRADE LINE.

### 08-11-00 DOORS

INTERIOR DOOR IN THE CUSTOMER AREA (IF APPLICABLE) MUST BE GLASS WITH A BRUSHED ALUMINUM FRAME.

DOORS IN THE STORAGE, CLEANUP UP AREAS AND OFFICE MUST BE SOLID WOOD AND PAINTED WHITE IN COLOR.

DOORS IN THE CUSTOMER RESTROOMS MUST BE SOLID WOOD AND PAINTED RED IN COLOR.

A STAINLESS STEEL KICK PLATE, UP TO 2" IN HEIGHT MUST BE APPLIED TO THE BOTTOM OF ANY INTERIOR OR EXTERIOR DOOR.

ALL DOORS SHALL BE DESIGNED SO THAT THEY DO NOT OPEN TO THE INSIDE AND SHALL BE EQUIPPED WITH A SELF-CLOSING DEVICE.

ALL DOORS SHALL BE DESIGNED SO THAT THEY CAN BE TIGHTLY CLOSED ON ALL SIDES TO PREVENT THE ENTRANCES OF INSECTS, BIRDS, AND RODENTS INTO THE FACILITY.

### 08-80-00 WINDOWS AND GLAZING

OFFICE SECURITY WINDOW: 24"W X 36"H FIXED PANEL MIRROR GLASS WINDOW SHALL BE INSTALLED AT THE MANAGER'S OFFICE AS SHOWN ON THE FLOOR PLAN. HEAD HEIGHT SHALL BE 6'-8" A.F.F. VERIFY W/ ELEVATION. FRAME SHALL BE HOLLOW METAL WITH GLASS STOPS AND RESILIENT MOUNTING STRIPS TO RECEIVE ONE-WAY REFLECTIVE GLASS.

ALL WINDOWS IN THE PRODUCTION AREA MUST REMAIN CLOSED.

ALL EXTERIOR WINDOWS WHICH ARE CAPABLE OF BEING OPENED WILL HAVE REMOVABLE SCREENS.

ALL GLAZING SHALL BE FREE OF CRACKS, SCRATCHES, CHIPS AND ANY OTHER DEFECTS OR IMPERFECTIONS AND SHALL BE INSTALLED TO PROVIDE A PROPER FIT SO AS NOT TO BIND IN THEIR FRAMES AND TO ALLOW FOR EASE IN REPLACEMENT.

THE STORAGE AREA, CLEAN UP AREA AND OFFICE AREA CAN NOT BE VISIBLE FROM OUTSIDE THE STORE. WINDOWS WITH VIEWS INTO THESE AREAS MUST BE COVERED IN OPAQUE BLACK FILM OR APPROVED VINYL WINDOW GRAPHICS.

THE PRODUCTION AREA MAY BE VISIBLE FROM OUTSIDE THE STORE AS LONG AS THE BACKS OF EQUIPMENT ARE NOT PLACED DIRECTLY IN FRONT OF A WINDOW AND ARE VISIBLE FROM OUTSIDE THE STORE.

### 09-31-00 CERAMIC AND QUARRY TILE

GENERAL CONTRACTOR TO PROVIDE A SMOOTH CONCRETE SLAB READY FOR INSTALLATION OF FLOOR COVERING AS PER PLANS.

REFER TO MATERIAL SCHEDULE FOR FRONT OF HOUSE AND BACK OF HOUSE FLOOR COVERING SPECIFICATIONS.

### CERAMIC AND QUARRY TILE CONT.

ALL CERAMIC & QUARRY TILE SHALL BE INSTALLED WITH THIN SET ADHESIVES FURNISHED BY THE TILE MANUFACTURER. ALL TILE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

ALL FLOOR TILE SHALL BE SET IN A MANNER WHICH WILL MINIMIZE CUTTING.

ALL FLOOR TILE SHALL BE ACID CLEANED AFTER GROUTING PER THE MANUFACTURER'S INSTRUCTIONS. NO SEALANTS SHALL BE APPLIED TO THE TILE.

### 09-50-00 SUSPENDED CEILINGS

SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE W/ CURRENT IBC, AMERICAN SOCIETY OF TESTING MATERIALS C635 & C636 AS WELL AS AMERICAN SOCIETY OF CIVIL ENGINEERS 7-02 & CEILING AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION.

A SUSPENDED CEILING T-BAR SYSTEM SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL HAVE A BAKED ENAMEL SEMI-GLOSS FINISH. THE SYSTEM SHALL HAVE A CLASS "A" RATING AND SHALL BE A "SNAP-GRID" SYSTEM.

ALL CEILINGS MUST BE INSTALLED AT 90 DEGREES TO THE DEMISING WALLS. DIAGONAL PATTERNS ARE NOT ALLOWED.

MINIMUM OF 9' IN HEIGHT FROM FINISHED FLOOR. MAXIMUM OF 12', UNLESS NOTED OTHERWISE ON REFLECTED CEILING PLAN.

CEILING FANS ARE NOT ALLOWED IN THE PRODUCTION AREA, FOOD PREPARATION AREA, CUSTOMER AREA, OR WITHIN CUSTOMER VIEW IN THE STORE.

### 09-90-00 PAINT

ALL PAINT SHALL BE EGGSHELL OR SATIN FINISH UPON DRYING. REFER TO MATERIAL SCHEDULE.

NEW WALL SURFACES SHALL RECEIVE ONE PRIMER COAT AND TWO FINISH COATS. PAINT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL PROVIDE A SMOOTH, CLEANABLE, FINISHED SURFACE WITH UNIFORM COLOR THROUGHOUT.

### 10-14-00 SIGNAGE

REQUIRES SEPARATE PERMIT BY OTHERS, REVIEW & APPROVAL PRIOR TO INITIATING SUCH WORK.

### ACCESSIBLE SIGNAGE

MOUNTING HEIGHTS AND LOCATIONS PER PLANS.

### EXTERIOR SIGNAGE:

PRE-FABRICATED AND PRE-FINISHED CUSTOM MANUFACTURED SIGNAGE SHALL BE FURNISHED AND INSTALLED BY THE OWNER/ OWNER'S SIGN VENDOR. SIGNAGE SHALL BE PURCHASED FROM AN APPROVED SIGNAGE VENDOR.

ALL STORES SHALL HAVE A MINIMUM OF ONE STOREFRONT FASCIA SIGN (UNLESS OTHERWISE RESTRICTED BY MUNICIPALITY OR LANDLORD).

SECONDARY BUILDING SIGNAGE IS DEFINED AS SIGNAGE INSTALLED ANYWHERE ON THE BUILDING OTHER THAN THE STOREFRONT.

ALL SIGNS IN CUSTOMER VIEW MUST BE IN GOOD REPAIR WITH ALL LIGHTS FUNCTIONING.

ONLY VENDORS APPROVED BY DOMINO'S PIZZA, LLC MAY MANUFACTURE OR SELL SIGNS.

IT IS THE SIGNAGE MANUFACTURER'S RESPONSIBILITY TO ENSURE THE SIGNAGE IS DESIGNED, CONSTRUCTED, ATTACHED AND INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND ORDINANCES. SIGNAGE MANUFACTURER TO PROVIDE DRAWINGS OF SIGNAGE ON STOREFRONT AND COLOR RENDERING OF SIGNAGE.

### SPECIALTY SIGNAGE AND GRAPHICS:

SPECIALTY SIGNAGE IS DEFINED AS ANY SIGN THAT DOES NOT MEET THE CURRENT CRITERIA FOR STORE FRONT, SECONDARY OR STREET SIGNAGE. SPECIALTY SIGNAGE PLANS AND/ OR DRAWINGS FOR EACH SIGN MUST BE SUBMITTED TO DOMINO'S PIZZA LLC FOR WRITTEN APPROVAL BEFORE SIGN CONSTRUCTION AND ILLUSTRATION.

SPECIALTY SIGNS MUST BE MANUFACTURED BY AN APPROVED DOMINO'S PIZZA VENDOR UNLESS PRIOR WRITTEN APPROVAL IS GRANTED.

### CUSTOMER LOBBY INTERIOR SIGNAGE:

INTERIOR SIGN MUST BE MANUFACTURED BY AN APPROVED DOMINO'S PIZZA VENDOR.

SIGN FOR OTHER THAN DIRECT BUSINESS PURPOSES ARE PROHIBITED.

THE ONLY NEON/ LED SIGNS ALLOWED ARE THOSE APPROVED BY DOMINO'S PIZZA. WINDOW TYPE NEON/ LED SIGNS MAY ONLY BE IN COLORS APPROVED BY DOMINO'S PIZZA.

AN APPROVED "OPEN" SIGN IS REQUIRED AND MUST BE ILLUMINATED FROM OPENING TO CLOSING.

NEON/ LED SIGNS MUST BE PLACED IN THE WINDOW WITH THE BOTTOM OF THE SIGN AT LEAST 60" FROM THE FLOOR.

### 10-17-00 TELEPHONE & DATA

THE GENERAL CONTRACTOR/ ELECTRICAL SUBCONTRACTOR SHALL INSTALL THE COMPLETE ELECTRICAL AND COMPUTER DATA WIRING SYSTEM WITH ALL THE NECESSARY RELATED ACCESSORIES FOR A COMPLETE, FUNCTIONING SYSTEM APPROVED BY DOMINO'S PIZZA AND THE TELEPHONE EQUIPMENT SUPPLIER.

THE CONTRACTOR SHALL OBTAIN, DIRECTLY FROM DOMINO'S PIZZA, ALL INSTALLATION INSTRUCTIONS PERTAINING TO THE DOMINO'S PIZZA COMPUTER/ TELEPHONE SYSTEM: PULSE CABLING SPECS.

THE CONTRACTOR SHALL COORDINATE THE WORK INDICATED ON THE DRAWINGS WITH THE COMPUTER/ TELEPHONE INSTALLATION DIRECTIONS FROM DOMINO'S PIZZA. IF DISCREPANCIES EXIST, THE DOMINO'S PIZZA INSTALLATION DIRECTIONS SHALL TAKE PRECEDENCE.

ALL INSTALLATION CONCEPTS SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.

IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES AND REQUIREMENTS.

### 10-26-00 WALL AND CORNER GUARDS

FULL HEIGHT 2" X 2" STAINLESS STEEL CORNER GUARDS AT ALL EXTERIOR CORNERS. FULL HEIGHT STAINLESS STEEL END CAPS AT ALL WALL ENDS.

### 10-99-00-2 FIRE EXTINGUISHERS

MINIMUM 2A10BC FIRE EXTINGUISHERS SHALL BE INSTALLED IN LOBBY.

MINIMUM CLASS K FIRE EXTINGUISHERS SHALL BE INSTALLED IN KITCHEN.

ALL FIRE EXTINGUISHERS SHALL BE PROPERLY TAGGED AND MOUNTED.

ALL FIRE EXTINGUISHERS SHALL REMAIN IN CLEAR VIEW AND SHALL NOT BE OBSTRUCTED AT ANY TIME.

FIRE EXTINGUISHERS SHALL BE INSTALLED NO HIGHER THAN 5' (AT HANDLE) AND NO LESS THAN 4" ABOVE FINISHED FLOOR.

### 11-40-00 FOOD SERVICE EQUIPMENT & MISCELLANEOUS ITEMS

FOOD SERVICE EQUIPMENT AND OTHER ITEMS LISTEN ON THE EQUIPMENT SCHEDULE SHALL BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

ALL JOINTS IN THE COUNTER SYSTEM AND WHERE FIXED EQUIPMENT MEETS WALL SURFACES SHALL BE SEALED USING A CLEAR, NON-TOXIC SILICONE SEALANT APPLIED TO LEAVE A SMOOTH CONCAVE JOINT.

### OVEN EXHAUST HOOD:

DOMINO'S PROVIDED EXHAUST HOOD INSTALLED BY GENERAL CONTRACTOR.

### 12-32-16 MILLWORK AND CABINetry

THE CONTRACTOR SHALL INSTALL CUSTOM COUNTERS PROVIDED BY DOMINO'S PIZZA, INCLUDING BUT NOT LIMITED TO MODULAR CUSTOMER SERVICE COUNTERS, DOUGH COUNTERS, CUT TABLE, DRIVER'S TABLE, AND DROP BOXES.

PROTECTIVE WOOD CASE FOR TELEPHONE EQUIPMENT BY G.C.: COVER ALL EXPOSED WOOD WITH PURE WHITE PLASTIC LAMINATE. 48" X 48" X 18" DEEP WITH HINGED ACCESS DOORS. PROVIDE VENTILATION HOLES TOP & BOTTOM. MOUNT AS HIGH ON WALL AS POSSIBLE. SEE FLOOR PLAN FOR GENERAL LOCATION OF EQUIPMENT. VERIFY THIS DIMENSION IS SUFFICIENT FOR EQUIPMENT.

CUSTOM DESK FOR MANAGER'S OFFICE BY G.C. SEE MANAGER'S OFFICE ELEVATION DRAWINGS.

### 12-61-00 CUSTOMER LOBBY TABLES & CHAIRS

ALL STORES MUST HAVE APPROVED SEATING IN THE CUSTOMER AREA FOR A MINIMUM OF THREE (3) CARRYOUT CUSTOMERS.

NO FOLDING CHAIRS ARE ALLOWED.

SEE FURNITURE SCHEDULE FOR APPROVED BENCHES, TABLES, AND CHAIRS.

### 26-50-00 LIGHTING

CUSTOMER LOBBY LIGHTING:

APPROVED LIGHTING TO BE DESCRIBED IN LIGHTING PLAN AND SCHEDULE.

TRACK LIGHTING IS NOT APPROVED.

ALL OTHER AREAS LIGHTING:

APPROVED LIGHTING FOR STORAGE AREA, OFFICES AND RESTROOMS ARE SHIELDED, WHITE, RECESSED FLUORESCENT OR LED FIXTURES ONLY.

### 26-00-00 ELECTRICAL

SEE ELECTRICAL SHEETS FOR ELECTRICAL REQUIREMENTS.

IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES, AND REQUIREMENTS.

### 22-00-00 PLUMBING

SEE PLUMBING SHEETS FOR PLUMBING REQUIREMENTS.

IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES, AND REQUIREMENTS.

### GAS:

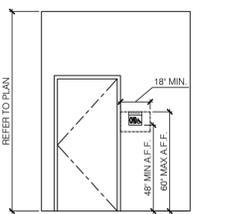
SEE PLUMBING SHEETS FOR GAS REQUIREMENTS.

IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES, AND REQUIREMENTS.

### 23-00-00 HEATING, VENTILATION AND AIR CONDITIONING

SEE MECHANICAL SHEETS FOR HVAC REQUIREMENTS.

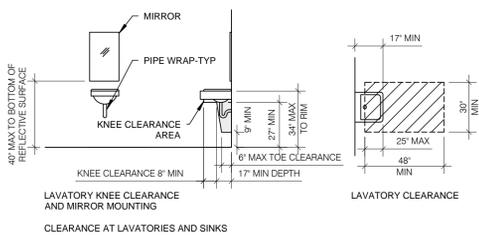
IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES, AND REQUIREMENTS



1. PROVIDE SIGNAGE WITH RAISED LETTERING AND BRAILLE SYMBOLS (RAISED 1/32") BETWEEN 56" - 2" HIGH LOCATED ON THE WALL ADJACENT TO THE STRIKE EDGE OF THE DOOR @ 60" AFF THAT IDENTIFIES THE RESTROOM.

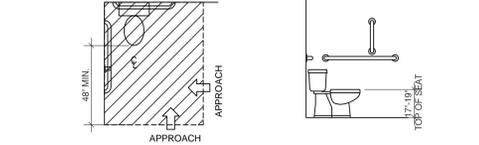
DOOR SIGNAGE ELEVATION

### PLUMBING FIXTURES

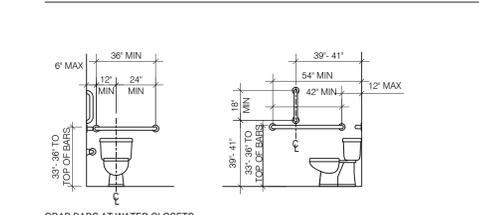


LAVATORY KNEE CLEARANCE AND MIRROR MOUNTING

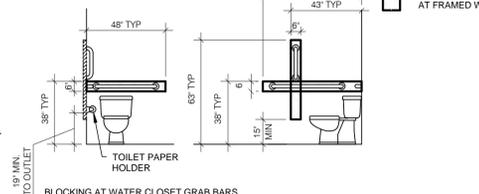
CLEARANCE AT LAVATORIES AND SINKS



CLEARANCE AT WATER CLOSETS AND HEIGHT

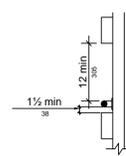


GRAB BARS AT WATER CLOSETS



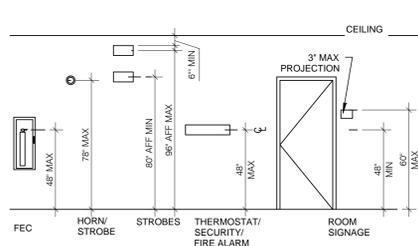
BLOCKING AT WATER CLOSET GRAB BARS

### RESTROOM GRAB BAR



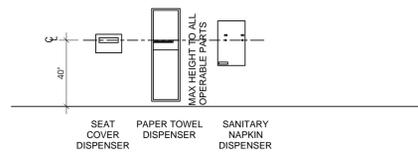
PROJECTING OBJECTS

### MOUNTING HEIGHTS



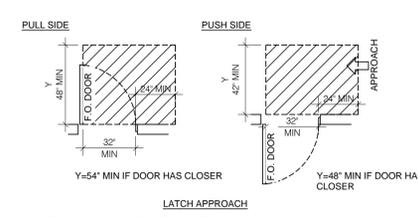
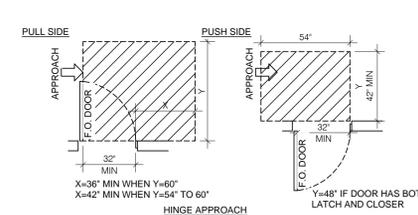
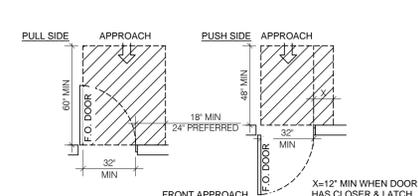
WALL MOUNTED DEVICES AND APPLIANCES

NOTE: 1. WALL MOUNTED DEVICES SHALL NOT EXTEND MORE THAN 4" BEYOND WALL SURFACE WHEN LOCATED BELOW 6'-6"



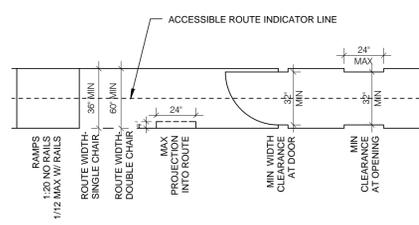
TOILET ROOM ACCESSORY MOUNTING HEIGHTS

### DOORS

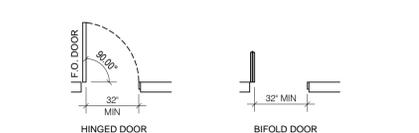


MANEUVERING CLEARANCES AT SWINGING DOORS

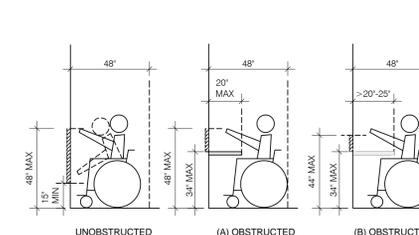
### CLEARANCES



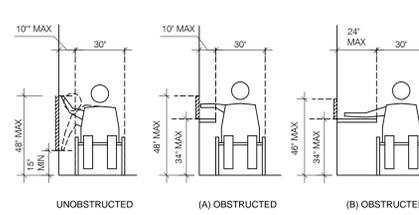
CLEAR WIDTH OF AN ACCESSIBLE ROUTE



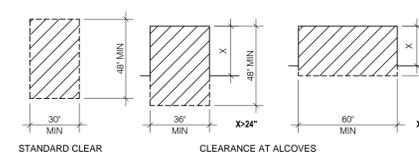
CLEAR WIDTH OF DOORWAYS



FORWARD REACH REQUIREMENTS

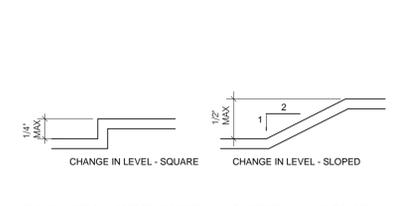


SIDE REACH REQUIREMENTS



STANDARD CLEAR FLOOR SPACE

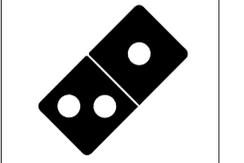
CLEAR FLOOR SPACES



LEVEL CHANGE ON ACCESSIBLE ROUTE ANSI FIGURE 303.2 AND FIGURE 303.3



1001 SE SANDY BLVD., SUITE 100  
PORTLAND, OR 97214  
V. 503.552.9079  
F. 503.241.7055  
WWW.GNICHARCH.COM



Project No: 5401 / Store #1684  
Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133

ISSUED FOR PERMIT:  
04.22.2021

REV. DATE:	DESCRIPTION:

SHEET NAME:

CONSTRUCTION SPECIFICATIONS/ ACCESSIBILITY DETAILS

SHEET NUMBER:

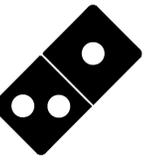
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RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
07/16/2021



1001 SE SANDY BLVD., SUITE 100  
PORTLAND, OR 97214  
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3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133  
816.501.8388

ISSUED FOR PERMIT:  
04.22.2021

REV. DATE:	DESCRIPTION:
05.04.21	CITY COMMENTS

SHEET NAME:

FIRE/ LIFE SAFETY PLAN

SHEET NUMBER:

FLS1.0

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CODE ANALYSIS			
IBC 2018 AND NFPA 101-2009	EXISTING BUILDING	EXISTING SPACE	PROPOSED SPACE
IBC 2018 BUILDING USE GROUP CLASSIFICATION(S)	B	B	B
NFPA 101 OCCUPANCY CLASSIFICATION(S)	BUSINESS	BUSINESS	BUSINESS
SEPARATED MIXED USE PER IBC/ NFPA (Y/N)	NO	NO	NO
CONSTRUCTION TYPE PER IBC 2018	V-B	V-B	V-B
NUMBER OF STORIES ABOVE GRADE	1	1	1
HIGH RISE (Y/N)	NO	NO	NO
FIRE ALARM SYSTEM (Y/N)	NO	NO	NO
FULLY SPRINKLED AND MONITORED (Y/N)	YES	YES	YES
TOTAL BUILDING AREA (S.F.)	N/A	1,220 S.F.	1,220 S.F.
FLOOR AREA OF RENOVATION/ TENANT SPACE (S.F.)	N/A	1,220 S.F.	1,220 S.F.

MATERIAL PERFORMANCE		
MATERIAL	CLASS	FLAME SPREAD INDEX
CUSTOMER LOBBY CEILING TILE	CLASS A	<25
PRODUCTION AREA CEILING TILE	CLASS A	<25
FLOOR TILE	CLASS A	<25
WALL TILE	CLASS A	<25
WALL PAINT	CLASS A	<5
PLASTIC LAMINATE	CLASS A	<25
FRP PANELS	CLASS A	<25
CORIAN SOLID SURFACE	CLASS A	<25

EXIT ACCESS TRAVEL DISTANCE		
OCCUPANCY	WITHOUT SPRINKLER SYSTEM (FEET)	WITH SPRINKLER SYSTEM (FEET)
A, E, F-1, M, R, S-1	200	250
I-1	NOT PERMITTED	250
B	200	300
F-2, S-2, U	300	400
H-1	NOT PERMITTED	75
H-2	NOT PERMITTED	100
H-3	NOT PERMITTED	150
H-4	NOT PERMITTED	175
H-5	NOT PERMITTED	200
I-2, I-3, I-4	NOT PERMITTED	200

**PROJECT STATISTICS:**

**BUILDING DATA**

TOTAL AREA OF DOMINO'S PIZZA TENANT SPACE:  
1,220 S.F. GROSS

**OCCUPANT LOAD SUMMARY**

OCCUPANCY CLASSIFICATION: GROUP B (LESS THAN 50 OCCUPANTS)

IBC SECTION 303.1  
EXCEPTION 2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.  
EXCEPTION 3. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

LOBBY AREA  
GROSS AREA = 106 S.F.  
LOAD FACTOR @ 1/100 BUSINESS  
OCCUPANT LOAD = 2

PRODUCTION AREA  
GROSS AREA = 472 S.F.  
LOAD FACTOR @ 1/200 KITCHEN, COMMERCIAL  
OCCUPANT LOAD = 3

STORAGE AREA  
GROSS AREA = 591 S.F.  
LOAD FACTOR @ 1/300 ACCESSORY STORAGE  
OCCUPANT LOAD = 2

TOTAL OCCUPANT LOAD = 7

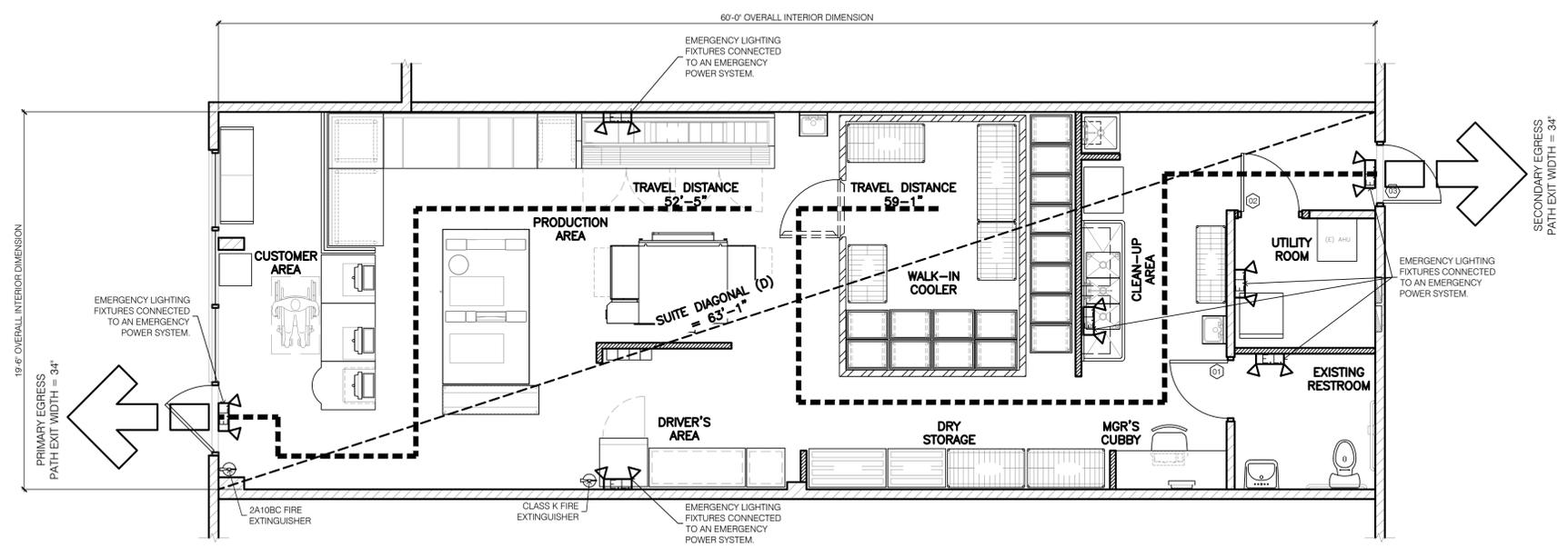
EXITS:  
CUSTOMER AREA = 1  
TOTAL EXITS = 2

7 PERSONS IN THIS SPACE X .20" / PERSON = 1.4 INCHES MIN. REQ'D  
EXIT WIDTH PROVIDED = 73.5 INCHES PROVIDED

TOILETS:  
TOTAL NUMBER OF TOILET FACILITIES = 1 PROVIDED

**FIRE EXTINGUISHER NOTES**

- ALL FIRE EXTINGUISHERS SHALL BE STATE OF MISSOURI CERTIFIED. ALL FIRE EXTINGUISHERS SHALL BE PROPERLY MOUNTED AT THE HEIGHT REQUIREMENTS OF NO HIGHER THAN 4'-6" A.F.F. TO THE TOP OF THE EXTINGUISHER AND AT LEAST 6" FROM FLOOR TO THE BOTTOM OF EXTINGUISHER. (NFPA 10: 6.1.3.8)
- ALL PROPERLY MOUNTED FIRE EXTINGUISHERS SHALL NOT EXCEED 75' OF TRAVEL DISTANCE APART. (NFPA 1: 6.1)
- FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY ARE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE IN THE EVENT OF FIRE. (NFPA 10: 6.1.3)
- FIRE EXTINGUISHERS SHALL BE LOCATED ALONG NORMAL PATHS OF TRAVEL, INCLUDING EXITS FROM AREAS. (NFPA 10: 6.1.3)
- FIRE EXTINGUISHERS SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW. (NFPA 10: 6.1.3.3)



SCALE: 1/4" = 1'-0"

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MARK	QTY.	DESCRIPTION / MFG OR	PRODUCT CODE	REMARKS	FURN. BY	INST. BY
1	1	1" STAINLESS STEEL DOUGH SPACER W/ LEGS	SEE E&S	4" BACKSPLASH LEG ASSEMBLY 22314D	E&S	GC
2	1	2" STAINLESS STEEL DOUGH SPACER W/ LEGS	PC 273160	4" BACKSPLASH LEG ASSEMBLY 22314D	E&S	GC
3	1	3" STAINLESS STEEL DOUGH SPACER W/ LEGS	PC 273161	4" BACKSPLASH LEG ASSEMBLY 22314D	E&S	GC
4	1	4" STAINLESS STEEL DOUGH COUNTER W/ LEGS	PC 273162	4" BACKSPLASH	E&S	GC
5	1	5" STAINLESS STEEL DOUGH COUNTER W/ LEGS	PC 273163	4" BACKSPLASH	E&S	GC
6	1	6" STAINLESS STEEL DOUGH COUNTER W/ LEGS	SEE E&S	4" BACKSPLASH	E&S	GC
7	1	45 DEGREE ROLL TABLE W/ 4" BACKSPLASH	PC 273167	4" BACKSPLASH	E&S	GC
8	1	UNIVERSAL CORNER STAINLESS STEEL DOUGH COUNTER W/ LEGS	PC 273165	4" BACKSPLASH	E&S	GC
9	1	4" MAKELINE	SEE E&S			
10	1	10'-0" MAKELINE RCP (RIGHT SIDE COMPRESSOR)	SEE E&S		E&S	GC
11	1	CORNMAL CATCHER	PC 273021		E&S	GC
12	1	BOFI 325SH DOUBLE STACK CONVEYOR OVEN	SEE E&S	SPLIT BELT DRIVE ONE OVEN	E&S	GC
13	1	AVI CAP EXHAUST HOOD FOR BOFI 3255	SEE E&S	S.S. VALANCE BY E&S OR OPTIONALLY BY G.C.	E&S	GC
14	1	PULSE TELEPHONE EQUIPMENT BOX W/ HINGED ACCESS DOORS	PWD W/ WHITE P. LAM			
15	2	MENU BOARD - 37"-55" MONITOR 1080p & HDMI COMPATIBLE	SEE POMEROY	RECOMMEND LG 43E5B OR LG 49E5B	POMEROY	GC
16	1	PIZZA TRACKER - 37"-55" MONITOR 1080p & HDMI COMPATIBLE	SEE POMEROY	WITH HP T620 THIN CLIENT	POMEROY	GC
17	2	PULSE TELEPHONE / 22" ORDER DISPATCH - WALL MOUNTED	SEE PULSE	WALL MOUNTED	PULSE	GC
17b	1	PULSE TELEPHONE / 22" ORDER DISPATCH CUT STATION - WALL MOUNTED	SEE PULSE	ADDL. DATA FOR PRINTER	PULSE	GC
17c	3	PULSE TELEPHONE / 22" DRIVER STATION - POS COUNTER	SEE PULSE	POS COUNTER/ADDL. DATA FOR PRINTER	PULSE	GC
17d	3	DOUGH / 22" MAKELINE MONITOR - POLE MOUNTED ABOVE COUNTER MOUNTED KIOSK	SEE PULSE		PULSE	GC
17e	1	TEAM MEMBER NOTIFICATION (TMN) SYSTEM	SEE PULSE	MOUNTING BASE		
18	1	CALIFORNIA SAFE WITH DIGITAL LOCK/TIME DELAY	PC 318111	20" TALL DUE TO ELEC. & CASH DRAWER	E&S	GC
19	2	METAL CASH DRAWER W/ REMOVABLE TILL	PC 312661	MTL. BRACKET KIT REOD. - PC 284008	E&S	GC
20	1	30" SINGLE DOOR VISI-COOLER	SEE COKE		COKE	GC
21	1	54" DOUBLE DOOR VISI-COOLER	SEE COKE			
22	1	COKE COOLER GDM15-RETR (RETRO COKE COOLER)	SEE COKE			
23	1	8" CUTTING EDGE CUT TABLE	SEE E&S		E&S	GC
24	1	60" ROUTE STAND W/ (3) 54" HEAT LAMPS (PC320815)	PC 320810		E&S	GC
25	2	2" DRIVERS TABLE	PC 22141D			
26	3	3" DRIVERS TABLE	PC 22140D			
27	1	10 x 14 NOMINAL KOLPAK WALK-IN COOLER BOX W/OUT FLR.	SEE E&S		E&S	GC
28	1	WHIRLPOOL ALL-IN-ONE WASHER/DRYER	BY G.C.	WETLV2H		
29	1	FULL SIZE WASHER	BY OWNER	STACKABLE	OWNER	GC
30	1	FULL SIZE DRYER	BY OWNER	STACKABLE	OWNER	GC
31	1	STAINLESS STEEL 3-COMPARTMENT SINK	PC 28102		E&S	GC
32	3	3-COMP. SINK, WASTE LEVER	PC 383050		E&S	GC
33	1	3-COMP. SINK, ECONOMY SPRAYER W/ ADD-ON FAUCET	PC 383011		E&S	GC
34	1	3-COMP. SINK, WALL BRACKET FOR ECONOMY SPRAYER	PC 28108		E&S	GC
35	2	COMPLETE 3-COMP. SINK WALL STORAGE SYSTEM	PC 411956		E&S	GC
36	2	STAINLESS STEEL HANDSINK W/ KNEE PEDAL AND BACKSPLASH	SEE E&S	W/ SPLASH GUARDS, BOTH SIDES	E&S	GC
37	2	LIQUID SOAP DISPENSER	PC 244006		E&S	GC
38	2	HAND SANITIZER DISPENSER	SEE E&S		E&S	GC
39	2	PAPER TOWEL DISPENSER	SEE E&S		E&S	GC
40	2	TRASH CAN W/ LID	PC 7030, PC7031		E&S	GC
41	1	MOLDED STONE MOP SINK	PC 28096		E&S	GC
42	1	WATER HEATER	SEE PLUMBING		GC	GC
43	4	STAINLESS WORK TABLE	PC 326031			
44	5	STAINLESS WORK TABLE	PC 22289			
45	1	18" x 36" OLYMPIC SHELVING	PC 411960	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
46	1	18" x 48" OLYMPIC SHELVING	PC 411961	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
47	1	18" x 60" OLYMPIC SHELVING	PC 411962	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
48	1	24" x 60" METRO DRIVERS SHELVING W/ (3) WIRE SHELVES (1) SOLID SHELF	SEE E&S	SOLID SHELF TO BE S.S. SURFACE	E&S	GC
49	1	24" x 60" OLYMPIC SHELVING	PC 411964	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
50	2	24" x 36" OLYMPIC SHELVING	PC 411965	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
51	3	24" x 48" OLYMPIC SHELVING	PC 411966	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
52	1	24" x 60" OLYMPIC SHELVING	PC 411967	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
53	1	20" x 36" HEAVY DUTY DUNNAGE RACK	PC 462452			
54	1	20" x 48" HEAVY DUTY DUNNAGE RACK	PC 462453			
55	1	24" x 36" HEAVY DUTY DUNNAGE RACK	PC 462450		E&S	GC
56	1	24" x 48" HEAVY DUTY DUNNAGE RACK	PC 462451		E&S	GC
57	1	16 COMPARTMENT LOCKER	SEE OWNER			
58	1	BUILT-IN MANAGERS DESK (WITH A.D.A. KNEE CLEARANCE)			GC	GC
59	4	MODULAR METAL DROP BOX	PC 8610A	(4) BAYS TO BE ATTACHED TOGETHER	E&S	GC
60	1	COKE FOUNTAIN BEVERAGE DISPENSER W/ ICE MACHINE ABOVE	SEE COKE			

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.  
E&S = DOMINOS PIZZA EQUIPMENT AND SUPPLY PULSE = DOMINOS PIZZA POINT OF SALE SYSTEM

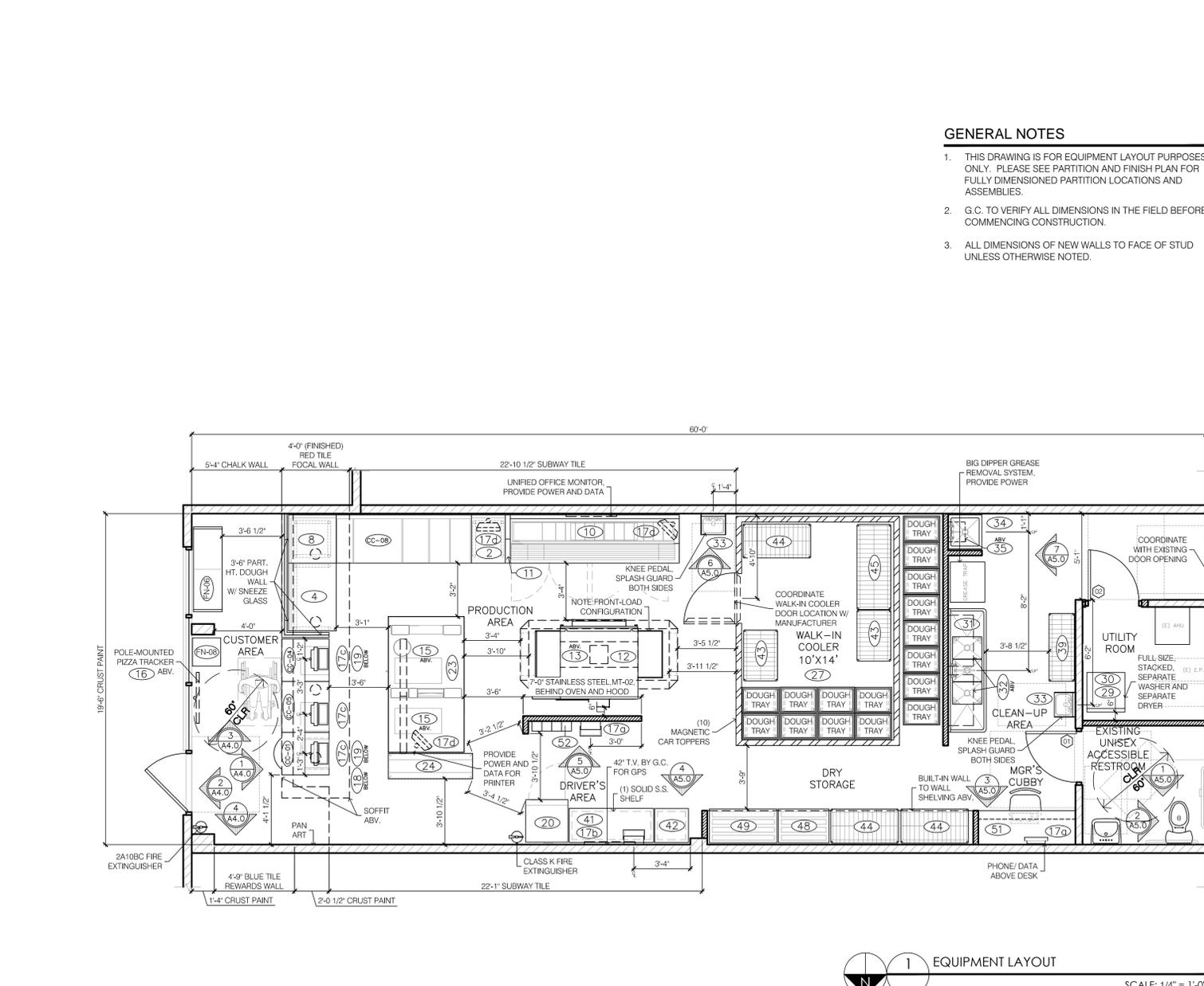
MARK	QTY.	DESCRIPTION	PRODUCT CODE	REMARKS	FURN. BY	INST. BY
CC-01	1	TRANSACTION COUNTER (33.5" DEEP)	PC 273310		E&S	GC
CC-02	1	18" POS FILLER CABINET (33.5" DEEP)	PC 273306		E&S	GC
CC-03	1	24" POS FILLER CABINET (33.5" DEEP)	PC 273307		E&S	GC
CC-04	1	30" POS FILLER CABINET (33.5" DEEP)	PC 273308		E&S	GC
CC-05	1	36" POS FILLER CABINET (33.5" DEEP)	PC 273309		E&S	GC
CC-06	1	WEDGE CABINET (33.5" DEEP)	PC 273311		E&S	GC
CC-07	1	HOT HOLD CABINET BASE	PC 273312		E&S	GC
CC-08	1	8" STAINLESS DOUGH TABLE - PIZZA THEATER	PC 273100	4" BACKSPLASH	E&S	GC
CC-09	3	POS. MOUNTS	PC 284007		E&S	GC
CC-10	7	CUT TABLE - PIZZA THEATER	PC 273117	W/ OVERSHELF (PC 273128)		
CC-11	1	SOLID STAINLESS BOX SHELF - 3 REQ.	PC 273119	W/ (4) 54" ERRECTA POSTS (PC 273166)		
CC-12	1	BEVERAGE COUNTER	PC 284043/PC 284042	TRASH ON RIGHT/ TRASH ON LEFT		
CC-13	1	BEVERAGE COUNTER TOP ORGANIZER	SEE E&S			
CC-14	1	AMENITIES STATION	SEE E&S			
CC-15	2	SNEEZE GUARD POLE END (INDIVIDUAL)	PC 284300	G.C. TO PROVIDE GLASS	E&S	GC
CC-16	2	SNEEZE GUARD POLE CENTER/CORNER (INDIVIDUAL)	PC 284301	G.C. TO PROVIDE GLASS	E&S	GC
CC-17	1	45" PREFAB MODULAR SOFFIT	PC DOM AA-15 060	PRE-FABRICATED SOFFIT OPTIONAL. SEE E&S FOR SOFFIT ACCESSORIES		
CC-18	1	48" x 24" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 010			
CC-19	1	48" x 36" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 020			
CC-20	1	48" x 48" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 030			
CC-21	1	48" x 60" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 040			
CC-22	1	48" x 96" x 8" PREFAB MODULAR SOFFIT	PC DOM AA-15 050			
CC-23	1	CORIAN LEDGE SUPPORT COLUMN	SEE E&S	SUPPORT FOR CORIAN WAITING LEDGE		

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.  
NOTE: SOFFIT LAYOUT/ACCESSORIES FOR DESIGN INTENT ONLY. FINAL EQUIPMENT ORDER TO BE BASED ON MANUFACTURER'S SPECIFICATIONS.

MARK	QTY.	DESCRIPTION / MFG OR	PRODUCT CODE	REMARKS	FURN. BY	INST. BY
FN-01	1	DINING CHAIR (18" SEAT HEIGHT)	PC 318080	DINING ROOM		
FN-02	1	COUNTER STOOL (26" SEAT HEIGHT)	PC 318081	WAITING LEDGE		
FN-03	1	DINING TABLE TOP AND 1 BASE: 36" x 24"	PC 284015/284016	DINING ROOM		
FN-04	1	DINING TABLE TOP AND 2 BASES: 36" x 48"	PC 284017/284018	DINING ROOM		
FN-05	1	BENCH - 3 SEAT	PC 284014	WAITING AREA (60" LONG)	E&S	GC
FN-06	1	BENCH - 3 SEAT - SECURITY STORE	SEE E&S	SECURITY STORE (61.25" LONG)		
FN-07	1	INTERIOR TRASH CAN - 36 GALLON 20" X 20" X 40"	PC 273030/273031	BASE AND TOP/TOP ONLY FITS (E) BASE	E&S	GC
FN-11	1	48" SINGLE BOOTH SEATING	PC 284011	INTERIOR SEATING AREA		
FN-12	1	WALL BOOTH SEATING (SEE PLAN FOR LENGTHS)	PC 284013	INTERIOR SEATING AREA		
FN-13	1	48" DOUBLE BOOTH SEATING	PC 284012	INTERIOR SEATING AREA		
FN-14	1	EXTERIOR TRASH CAN - 55 GALLON	PC 273016	EXTERIOR DINING AREA		
FN-15	1	30" ROUND OUTDOOR TABLE WITH BASE: SEATS 2	PC 318070/318071	EXTERIOR DINING AREA		
FN-16	1	36" SQUARE OUTDOOR TABLE WITH BASE: SEATS 4	PC 318072/318073	EXTERIOR DINING AREA		
FN-18	1	7 RED OUTDOOR TABLE UMBRELLA W/ BASE: ADD SMALL LOGO	PC 318043/318044	EXTERIOR DINING AREA		
FN-19	1	OUTDOOR PLATINUM CHAIR	PC 318074	EXTERIOR DINING AREA		
FN-20	1	CHILD STEP	PC 273300	24W x 18D x 12H		
FN-21	1	HAND RAIL	PC 273301			

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.

Domino's Pizza - Cash Wrap Specifications									
Domino's P/N	273306	273307	373308	273309	273310	273311	273312	284007	284008
MFG P/N	J701718K615	J701724K615	J701730K615	J701736K615	J7016K615	J7018K615	J7019K615	J6274K300	J6067K615
Description	18" POS CABINET	24" POS CABINET	30" POS CABINET	36" POS CABINET	TRANSACTION STATION	FILLER WEDGE	HOT HOLD CABINET	POS MOUNT	CASH DRAWER MOUNTING BRACKET
Product (H x W x D)	34" x 18" x 33 1/2"	34" x 24" x 33 1/2"	34" x 30" x 33 1/2"	34" x 36" x 33 1/2"	34" x 30" x 39-3/16"	34" x 27.5" x 33 1/2"	24" x 36" x 33 1/2"	12"-H	*accommodates M-S Cash Drawer (mfg# HP-123N)
Shipping (H x W x D)	40" x 25" x 52"	40" x 25" x 52"	40" x 40" x 48"	40" x 40" x 48"	40" x 40" x 48"	40" x 25" x 52"	40" x 40" x 48"	4" x 4" x 15"	7" x 17" x 19"
Product (lbs.)	110 lbs.	130 lbs.	155 lbs.	175 lbs.	185 lbs.	80 lbs.	150 lbs.	5.5 lbs.	7.5 lbs.
Shipping (lbs.)	130 lbs.	150 lbs.	180 lbs.	200 lbs.	210 lbs.	100 lbs.	175 lbs.	6 lbs.	8 lbs.
Cabinet Material	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Tube	18-ga. Steel Sheet				
Cabinet Finish	Powder Coat	Powder Coat	Powder Coat	E-Coat	Powder Coat				
Cabinet Color	Stardust Silver	Stardust Silver	Stardust Silver	Black	Stardust Silver				
Countertop Material	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	1/2" Corian™ solid surface & 1/2" MDF substrate	N/A	N/A
Countertop Finish	Matte	Matte	Matte	Matte	Matte	Matte	Matte	N/A	N/A
Countertop Color	Cottage Lane	Cottage Lane	Cottage Lane	N/A	N/A				
# Clean Outlets	0	0	0	0	0	0	0	0	0
# Dirty Outlets	4	4	4	4	6	8	4	4	4
# Blank/Data Outlets	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	N/A	N/A				
Modular Connectors	5-ft RelocID Quick Connect	RelocID Cable Extenders	RelocID Cable Extenders	N/A	N/A				
Hard Wiring	N/A	N/A	N/A	N/A	N/A	N/A - 20-amp plug w/ junction box kit* *packaged separately	N/A	N/A	N/A
Removable Front Access Panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes Spring clip must first be dis-engaged from employee side before removing panel	Yes	Yes Spring clip must first be dis-engaged from employee side before removing panel	N/A	N/A
Removable Rear Kick for 42" W Floor Safe Adjustable Shelving (1/2" increments)	No	No	Yes	Yes	Yes	No	No	N/A	N/A
VESA Mount Standard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
Warranty	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	75mm x 75mm only (1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship

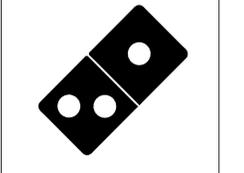


- ### GENERAL NOTES
- THIS DRAWING IS FOR EQUIPMENT LAYOUT PURPOSES ONLY. PLEASE SEE PARTITION AND FINISH PLAN FOR FULLY DIMENSIONED PARTITION LOCATIONS AND ASSEMBLIES.
  - G.C. TO VERIFY ALL DIMENSIONS IN THE FIELD BEFORE COMMENCING CONSTRUCTION.
  - ALL DIMENSIONS OF NEW WALLS TO FACE OF STUD UNLESS OTHERWISE NOTED.

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
07/16/2021

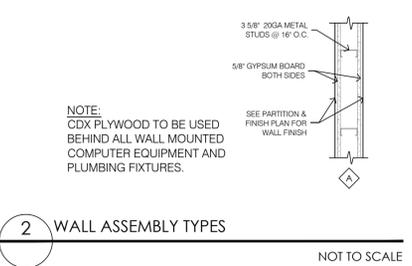


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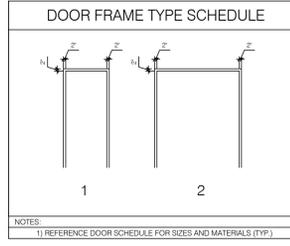
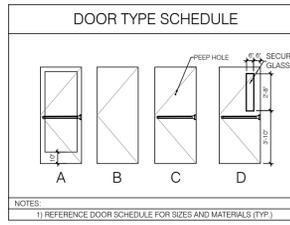
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MASTER MATERIAL SCHEDULE							
MARK	MATERIAL	MANUFACTURER	MODEL #	COLOR	FINISH	COMMENT	CONTACT
<b>CEILING</b>							
CE-01	2' x 2' SCRUBBLE CEILING TILE	USG CEILINGS	OLYMPIUS SHEETROCK CEILING PANEL #3200 SQUARE EDGE	WHITE	WVVL	PRODUCTION AREA, BOH, DURABLE (SMOOTH, NON-ABSORBENT, EASILY CLEANABLE)	Chris Benjamin, cbenjamin@usg.com 312.436.4548
CE-02	OPEN CEILING	BY G.C.	SEE PT-06 OR PT-07 FOR PAINT SPECS	PT-06 OR PT-07	PAINT	SEE PT-06 OR PT-07 FOR PAINT SPECS	
CE-03	2' x 2' x 3/4" ACoustical CEILING TILE	USG CEILINGS	FRONT OLYMPIUS CEILING PANEL #414 EDGE GROUT PROFILE DONN-0X, COLOR MATCH 565 SIENNA	565 SIENNA	ACoustICAL	FRONT OF HOUSE	Chris Benjamin, cbenjamin@usg.com 312.436.4548
CE-04	2' x 2' x 1/2" ACoustical CEILING TILE	USG CEILINGS	OLYMPIA MOOD CLAMPLUS CEILING PANEL #4211 EDGE GROUT PROFILE DONN-0X	WHITE	ACoustICAL	FRONT OF HOUSE, CAN BE PAINTED PT-04 WHEN CT-03 CANNOT BE USED	Chris Benjamin, cbenjamin@usg.com 312.436.4548
<b>FLOOR COVERING &amp; BASE</b>							
FC-01	6" x 24" PORCELAIN TILE	OLYMPIA TILE	SERIES: ARBOR SELECTION GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	MOKA OLAR.MKA.0624		INSTALL PLANKS WITH A 1/32 OFFSET. FRONT OF HOUSE & CUSTOMER RESTROOMS.	Kurt von Koss, kurt@beavertile.com 248.790.2197
FC-02	6" x 24" PORCELAIN TILE	DALTE	SERIES: HOMESTEAD SERIES GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 1/8" GROUT JOINT	BETULA		INSTALL PLANKS WITH A 1/32 OFFSET. FRONT OF HOUSE & CUSTOMER RESTROOMS.	Jennifer McCormick@Dalte.com 616.862.4748
FC-03	6" x 6" TEXTURED QUARRY TILE	DALTE	SERIES: TEXTURED SERIES GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 1/8" GROUT JOINT	ASHEN GRAY		INSTALL PLANKS WITH A 1/32 OFFSET. FRONT OF HOUSE & CUSTOMER RESTROOMS.	Jennifer McCormick@Dalte.com 616.862.4748
FC-04	6" x 6" STRATA TILE	SUMMITVILLE	SERIES: STRATA 2 TILE PRODUCTS GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	DRIFTWOOD		PRODUCTION AREA BACK OF HOUSE/ WALK-IN COOLER	Kurt von Koss, kurt@beavertile.com 248.790.2197
FC-05	6" x 6" SMOOTH QUARRY TILE	METROPOLITAN CERAMICS	SERIES: QUARRY BASICS GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	507 PURTAN GRAY		PRODUCTION AREA BACK OF HOUSE/ WALK-IN COOLER	Kurt von Koss, kurt@beavertile.com 248.790.2197
FC-06	6" x 6" SMOOTH QUARRY TILE	DALTE	SERIES: QUARRY TEXTURES GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	ASHEN GRAY		PRODUCTION AREA BACK OF HOUSE/ WALK-IN COOLER	Jennifer McCormick@Dalte.com 616.862.4748
FC-07	1/2" x 24" RUBBER FLOOR TILE	JOHNSONITE	ULTRA ENTRY SYSTEM: NEW YORK COLLECTION	BROWN		RECYCLED BLACK VINYL NYLON INSETS. SEE DRAWINGS FOR CUSTOM SIZING.	Mark Sadauskas, msadauskas@johnsonite.com 614.743.7146
FC-08	EPOXY FLOORING	SHERWIN WILLIAMS	GENERAL POLYMERS 3746	SILVER GRAY		USE WITH VINYL STARTING STRIPS #VIRON-03-B-STEP @ ORDER COUNTER	Laura Baatz, laura.baatz@johnsonite.com 440.313.8238
FC-09	SHEET VINYL FLR. COVERING	POLYFLOV LTD.	POLYSAFE STANDARD PUR	TO BE DETERMINED BY OWNER		CONTACT YOUR LOCAL SHERWIN WILLIAMS REPRESENTATIVE	Kurt Topik, kurt@plamarc.us, sales@plamarc.us 717.517.5407
WB-01	6" x 24" TILE WALL BASE	OLYMPIA TILE	SERIES: ARBOR SELECTION GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL BROWN 3/16" GROUT JOINT	MOKA OLAR.MKA.0624		FRONT OF HOUSE. TRIM TOP EDGES W/ SQUARE EDGE POLISHED ALUMINUM SCHLUTER STRIP.	Kurt von Koss, kurt@beavertile.com 248.790.2197
WB-02	6" x 24" TILE WALL BASE	DALTE	SERIES: HOMESTEAD SERIES GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 3/16" GROUT JOINT	BETULA		FRONT OF HOUSE. TILE TO BE TURNED ON IT'S EDGE, CAP WITH BRUSHED ALUMINUM SCHLUTER STRIP.	Jennifer McCormick@Dalte.com 616.862.4748
WB-03	6" x 6" SMOOTH QUARRY TILE COVERED BASE W/ 3/8" COVE	METROPOLITAN CERAMICS	SERIES: QUARRY BASICS GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 3/16" GROUT JOINT	507 PURTAN GRAY		BACK OF HOUSE. WALK-IN COOLER. 2" x 6" COVE BASE OUTSIDE CORNER. 1" x 6" COVE BASE INSIDE CORNER.	Kurt von Koss, kurt@beavertile.com 248.790.2197
WB-04	6" x 6" SMOOTH QUARRY TILE COVERED BASE W/ 3/8" COVE	DALTE	SERIES: QUARRY TEXTURES GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 3/16" GROUT JOINT	507 PURTAN GRAY		BACK OF HOUSE. WALK-IN COOLER. 2" x 6" COVE BASE OUTSIDE CORNER. 1" x 6" COVE BASE INSIDE CORNER.	Jennifer McCormick@Dalte.com 616.862.4748
WB-05	6" x 6" SMOOTH COVERED BASE W/ 3/8" COVE	DALTE	SERIES: 6" x 6" 3/8" CERAMIC COVE BASE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	526197N ARCTIC WHITE		CUSTOMER ACCESSIBLE RESTROOMS.	Jennifer McCormick@Dalte.com 616.862.4748
T-01	TRANSITION STRIP	JOHNSONITE	#ICE-76X WITH METAL TRAC	76 CINNAMON		TRANSITION FROM 3/8" THICK FOPH PORCELAIN TILE TO 1/2" THICK BOH PORCELAIN TILE	Laura Baatz, laura.baatz@johnsonite.com 440.313.8238
T-02	TRANSITION STRIP	JOHNSONITE	#SL1-76-F SLUM LINE TRANSITIONS	76 CINNAMON		TRANSITION FROM 3/8" THICK FOPH PORCELAIN TILE TO 1/4" THICK BOH PORCELAIN TILE	Laura Baatz, laura.baatz@johnsonite.com 440.313.8238
T-03	TRANSITION STRIP	SCHLUTER	SOHENE	ANODIZED ALUMINUM - AJAT8		TRANSITION FROM LOBBY TILE FLOOR BASE TO WALL FINISH & TRANSITION FROM PORCELAIN TILE TO INSET WALK-OFF MAT	www.schluter.com 800.667.8746
T-04	TRANSITION STRIP	SCHLUTER	SCHENE	STAINLESS STEEL - E		TRANSITION FROM BATHROOM WALL TILE TO BLUE PAINT & TRANSITION FROM KITCHEN WALL TILE TO ANY OTHER WALL SURFACE	www.schluter.com 800.667.8746
<b>PAINT</b>							
PT-01	RED PAINT	SHERWIN WILLIAMS (PROMAR 200 BRAND)	INTERIOR WALLS: SEMI-GLOSS EXTERIOR TRIM AND HANDPLANK: SATIN FINISH	REAL RED SW6693	MATTE (EGGSH-ELL)	PROMAR 200 BRAND REQUIRED FOR VINYL GRAPHICS TO PROPERLY ADHERE	www.sherwin-williams.com 800.321.8194
PT-02	BLUE PAINT	BENJAMIN MOORE	INTERIOR WALLS: SEMI-GLOSS EXTERIOR TRIM AND HANDPLANK: SATIN FINISH	CALIFORNIA BLUE 2080-20	MATTE (EGGSH-ELL)	RESTROOM WALLS ABOVE SUBWAY TILE	www.benjaminmoore.com 866.708.9181
PT-03	CRUST PAINT	SHERWIN WILLIAMS (PROMAR 200 BRAND)	INTERIOR WALLS: SEMI-GLOSS EXTERIOR WALLS AND TRIM: SATIN FINISH	BAGUETTE SW6123	MATTE (EGGSH-ELL)	PROMAR 200 BRAND REQUIRED FOR VINYL GRAPHICS TO PROPERLY ADHERE	www.sherwin-williams.com 800.321.8194
PT-04	DROP CEILING PAINT	SHERWIN WILLIAMS	DROP CEILING: MATTE FINISH	CHIRCHILLA SW6611	MATTE	DROP CEILING AND DIFFUSER PAINT	www.sherwin-williams.com 800.321.8194
PT-05	CHALKBOARD PAINT	BENJAMIN MOORE	BLACK CHALKBOARD PAINT USE A PRIMER WITH A HARDENER ADDITIVE	307-60		INTERIOR WALLS AS NOTED MINIMUM 5 COATS	www.benjaminmoore.com 866.708.9181
PT-06	OPEN CEILING PAINT	SHERWIN WILLIAMS	OPEN CEILING: MATTE FINISH	TRICORN BLACK SW6258 (DRY-FALL)	MATTE (EGGSH-ELL)	OPEN CEILING WALLS AND DIFFUSER PAINT 11'-0" AND ABOVE	www.sherwin-williams.com 800.321.8194
PT-07	OPEN CEILING PAINT	SHERWIN WILLIAMS	OPEN CEILING: MATTE FINISH	JAVA SW6990 (DRY-FALL)	MATTE (EGGSH-ELL)	OPEN CEILING WALLS AND DIFFUSER PAINT 11'-0" AND ABOVE	www.sherwin-williams.com 800.321.8194
PT-08	POWDERCOAT PAINT	IFS COATINGS, INC.	MILLWORK, FIXTURES AND OR FURNITURE	SILVER SPARKLE PRSS 8079	MATTE (EGGSH-ELL)	DINING LEGS AND BASE PLATE. FOPH FASCIA.	Beranton Philip, bphilips@ifs.com 866.407.2984
PT-09	WHITE PAINT	SHERWIN WILLIAMS	INTERIOR WALLS: EGG-SHELL FINISH EXTERIOR TRIM AND ACCENT: SATIN FINISH	EXTRA WHITE SW7006	MATTE (EGGSH-ELL)	EXTERIOR TRIM AND BUILDING COLOR. INTERIOR PAINT AS NOTED	www.sherwin-williams.com 800.321.8194
PT-10	PATINA BLUE PAINT	KOBDOT STUDIOS	CUSTOM PATINA FINISH TO MATCH OWNERS CONTROL SAMPLE	CUSTOM PT-02 AS BASE		WEATHERED LOOK EXTERIOR PAINT OVER BRICK AND HANDPLANK.	Jerry Ullman, jerry@kdot.com 614.288.0969
PT-11	WHITE FRP PAINT	US COATING SOLUTIONS	DOMINOS SUPER COAT PAINT: WALL EPOXY SYSTEM	DOMINOS WHITE	N/A	FOR RE-PAINING EXIST. WHITE FRP & WALK-IN COOLER WITHIN CUST. VIEW	Gary Hanson 986.313.3033
<b>WALL COVERING</b>							
WT-01	WHITE SUBWAY TILE	OLYMPIA TILE	SERIES: COLOR AND DIMENSION 100 ULTRA WHITE 3" x 6" GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	ARCTIC WHITE	BRIGHT	PRODUCTION AREA AND RESTROOMS. CAP W/ 6" x 2" TRIM CAP OR BULLNOSE.	Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-02	WHITE SUBWAY TILE	DALTE	SERIES: LARGO 3" x 6" LRB4 WHITE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	WHITE	BRIGHT	PRODUCTION AREA AND RESTROOMS. CAP W/ 2" x 2" TRIM CAP OR BULLNOSE.	Derrick Rose, drose@beavertile.com 248.476.2333
WT-03	WHITE SUBWAY TILE	DALTE	SERIES: LARGO 3" x 6" LRB4 WHITE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	VITRUM WHITE	GLOSSY	PRODUCTION AREA AND RESTROOMS. CAP W/ 2" x 2" TRIM CAP OR BULLNOSE.	Jennifer McCormick@Dalte.com 616.862.4748
WT-04	WHITE FRP WALL PANEL (STANDARD)	MARLITE	P-100 PEBBLE SURFACE	WHITE		804 OUT OF CUSTOMER SIGHT	Tim Pinnow, tpinnow@marlite.com 330.260.7631
WT-05	BEIGE FRP WALL PANEL	MARLITE	P-100 PEBBLE SURFACE	BEIGE		RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	Tim Pinnow, tpinnow@marlite.com 330.260.7631
WT-06	RED FRP WALL PANEL (STANDARD)	GRANE COMPOSITES	STC - SANDSTONE SURFACE	721 RED		RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	www.granecomposites.com 800.433.0500
WT-07	RED SUBWAY TILE	BEAVERTILE	3" x 6" RED SUBWAY TILE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	RED PEPPER		60" A.F.F. IN PRODUCTION AREA WHERE WHITE SUBWAY TILE IS INSTALLED	Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-08	RED SUBWAY TILE	DALTE	3" x 6" RED SUBWAY TILE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	CURRENT RED		60" A.F.F. IN PRODUCTION AREA WHERE WHITE SUBWAY TILE IS INSTALLED	Jennifer McCormick@Dalte.com 616.862.4748
WT-09	BLUE SUBWAY TILE	BEAVERTILE	3" x 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	BLUE		PT-02 ALTERNATE, IN RESTROOMS ABV WHITE SUBWAY TILE	Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-10	BLUE SUBWAY TILE	DALTE	3" x 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	COBAL BLUE		PT-02 ALTERNATE, IN RESTROOMS ABV WHITE SUBWAY TILE	Jennifer McCormick@Dalte.com 616.862.4748
WT-11	BLUE SUBWAY TILE	DALTE	3" x 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT. WHITE NON-SANDED GROUT	SEA BREEZE	LESS BRIGHT	PT-02 ALTERNATE, IN RESTROOMS ABV WHITE SUBWAY TILE	Jennifer McCormick@Dalte.com 616.862.4748
<b>PLASTIC LAMINATE</b>							
PL-01	LAMINATE	WILSONART	1573-60	FROSTY WHITE	MATTE	AS REQUIRED	Leslie Humphrey, humphr@wilsonart.com 614.880.6863
PL-02	LAMINATE	NEVAMAR	51027T	LIBERTY RED	TEXTURED	RED ELEMENT. RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	Tom Cantrigh, tom_cantrigh@parbam.com 507.477.7837
PL-03	LAMINATE	FORMICA	1903-58	CAFE	MATTE	RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	www.formica.com 800.367.6422
PL-04	LAMINATE	WILSONART	7941K-18	TAN ECHO	LINEARITY	STANDING/ DINING LEDGES, TABLE TOPS	Leslie Humphrey, humphr@wilsonart.com 614.880.6863
PL-05	LAMINATE	WILSONART	4830K-18	SATIN STAINLESS	LINEARITY	MAKELINE/ DOUGH WALL FASCIA ON CUSTOMER SIDE	Leslie Humphrey, humphr@wilsonart.com 614.880.6863
<b>METAL</b>							
MT-01	STAINLESS STEEL	CHEMETAL	700 SERIES HPL CLASSICS	BRUSHED NATURAL ALUMINUM #702	BRUSHED	MAKELINE/ DOUGH WALL FASCIA ON CUSTOMER SIDE (HIGHER END OPTION)	chemetal.com 800.807.7341
MT-02	STAINLESS STEEL		18 GA. S.S. W/ HEMMED TOP AND SIDES			FLOOR TO CEIL. BEHIND OVEN & HOOD. 4" BASE ON CHILD GENERAL CONTRACTOR TO PROVIDE	
<b>SOLID SURFACE</b>							
SS-01	SOLID SURFACE	CORIAN BY DUPONT	TERRA COLLECTION 1/2" THICK	AURORA		DOUGH COUNTERTOP, CUSTOMER LEDGE AT DOUGH FEATURE, FOOD COUNTERTOP	Dave Greening, dnv4.d.greening@dupont.com 614.976.9700
<b>WINDOW SHADES</b>							
WS-01	SOLAR WINDOW SHADES	MECHO SHADES	THERMOVEL BASKET WEAVES 1304 65" AND 96" SINGLE BRACKET. MANUAL DRIVE SYSTEM	1304 BLACK/ BROWN	OPENNESS: 5%	FRONT WINDOWS	Dap Mak, dmak@mecha.com 614.963.0569
WS-02	SOLAR WINDOW SHADES	MECHO SHADES	THERMOVEL BASKET WEAVES 1317 65" AND 96" SINGLE BRACKET. MANUAL DRIVE SYSTEM	1317 STRAW	OPENNESS: 5%	FRONT WINDOWS	Dap Mak, dmak@mecha.com 614.963.0569
<b>FABRIC</b>							
FB-01	EXTERIOR AWNING	SUNBRELLA	#4666 44" WIDE, 100% SOLUTION DYED ACRYLIC	LOGO RED		EXTERIOR AWNINGS	Glen Rowen Custom Fabrics 386.221.2211
FB-02	EXTERIOR AWNING	COOLEY SIGN AND AWNING PRODUCTS	COOLEY BRITE #0132 BRIGHT RED			EXTERIOR AWNINGS	www.cooleygroup.com 800.982.0072
<b>GUARDS</b>							
CG-01	CORNER GUARD	BY G.C.	FULL HEIGHT 2" x 2" 16 GA. STAINLESS STEEL CORNER RETURNS	STAINLESS STEEL	BRUSHED	REQUIRED ALL OUTSIDE CORNERS	
CG-02	END CAP CORNER GUARD	BY G.C.	FULL HEIGHT 16 GA. STAINLESS STEEL WALL END CAP W/ 2" RETURNS	STAINLESS STEEL	BRUSHED	REQUIRED ALL WALL END CAPS	



2 WALL ASSEMBLY TYPES  
NOT TO SCALE

DOOR SCHEDULE									
Q	SIZE	TYPE	GLASS	MATERIAL		HARDWARE	NOTES	GROUP 1	GROUP 2
				DR	FR				
Q1	3'-0"	6'-0"	B	1	SCMD	HM		GROUP 1	B2,D,F
Q2	3'-0"	7'-0"	D	1	TEMP	STL	HM	GROUP 2	B2,F
Q3	3'-0"	7'-0"	D	1	TEMP	STL	HM	GROUP 3	A,B2,C,D,E,F



DOOR TYPE SCHEDULE  
DOOR FRAME TYPE SCHEDULE

**HARDWARE GROUPS**

GROUP 1: RESTROOM DOORS (1 1/2 PAIR) HINGES: COMMERCIAL (1) SILENCER (1) DOOR STOP: WALL MTD. (1) LATCHSET: PRIVACY FUNCTION (1) CLOSER

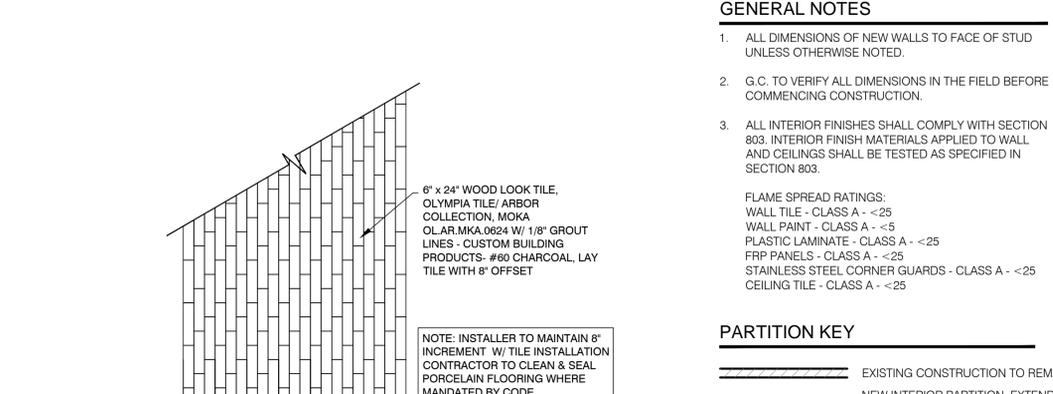
GROUP 2: UTILITY ROOM DOOR (1 1/2 PAIR) HINGES: COMMERCIAL (1) SILENCER (1) DOOR STOP: WALL MTD. (1) LATCHSET: PASSAGE FUNCTION (1) CLOSER

GROUP 3: COMMISSARY DOOR (1) CLOSER: HEAVY DUTY (1 1/2 PAIR) HINGES: 4" SECURITY (1) SILENCER (1) WEATHER STRIPPING KIT (1) DEADBOLT: W/ LONG THROW AND REINFORCED BOLT BOX (1) PULL: EXTERIOR 12" HANDLE (1) BOTTOM SWEEP: CENTER RECESSED (1) THRESHOLD: EXTRUDED ALUMINUM (1) KICKPLATE: 24" HIGH STAINLESS STL. (1) ELECTROMAGNETIC LATCH RELEASE (1) EMERGENCY HARDWARE

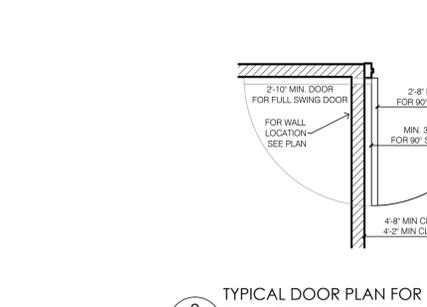
**NOTE:** HAND-ACTIVATED DOOR-OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.



3 TYPICAL DOOR PLAN FOR WHEELCHAIR ACCESS  
SCALE: 1/2" = 1'-0"



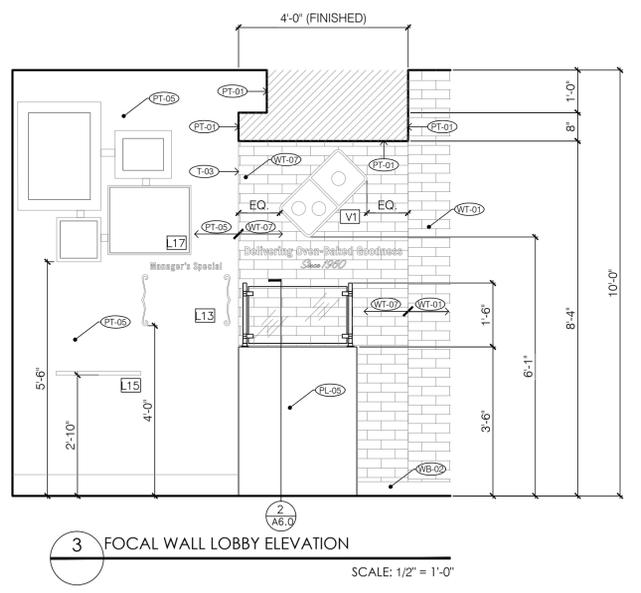
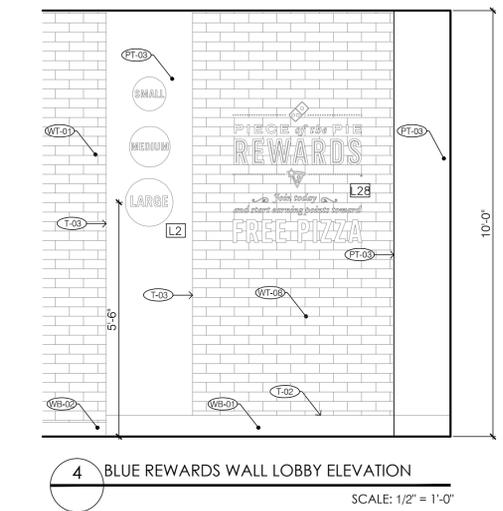
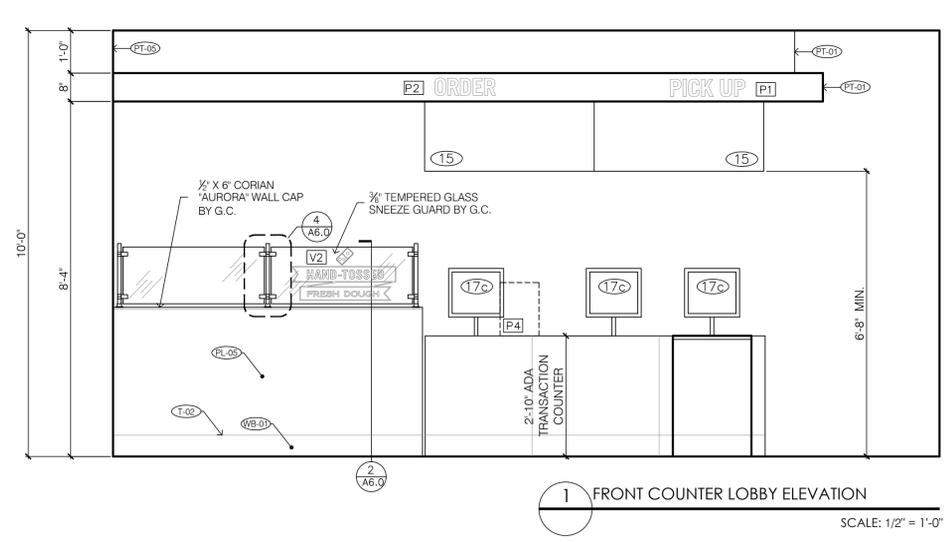
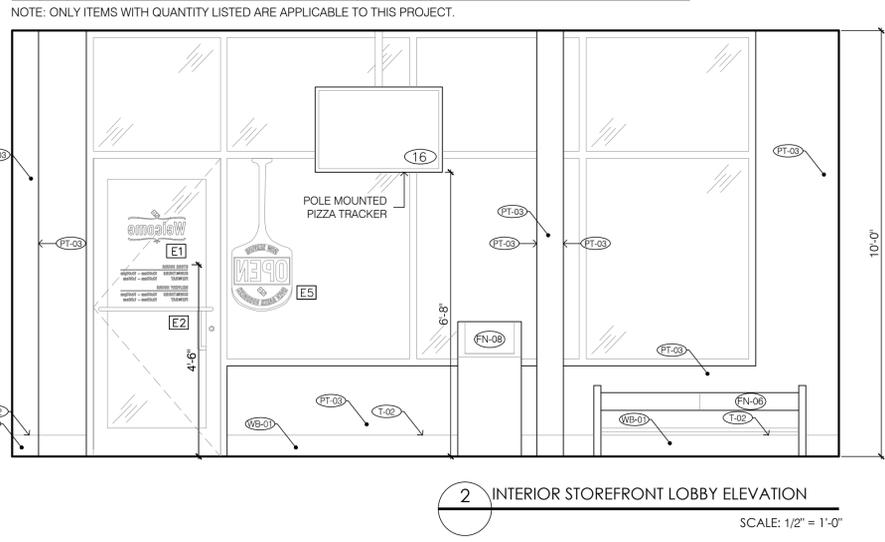
4 LOBBY FLOOR TILE PATTERN  
SCALE: 1/4" = 1'-0"





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ART PACKAGE SCHEDULE		SCHEDULES ARE NOT INTENDED TO BE ALL INCLUSIVE. STORE OWNER IS TO BE ULTIMATELY RESPONSIBLE FOR ALL ORDERS.	
MARK	QTY	DESCRIPTION	PRODUCT CODE   REMARKS
<b>GRAPHICS: ENTRYWAY</b>			
E1	1	WELCOME CUSTOMER ENTRY DOOR	PC273243 EVERY PIZZA THEATER STORE MUST ORDER
E2	1	STORE HOURS VINYL PER DOMINO'S STANDARDS	BY OWNER
E3		WELCOME GLASS PARTITION WALL VINYL	PC237260
E4		'PICK-UP WINDOW' OPEN PEEL SIGN - HALO LIT	PC284092 UTILIZED AS A SECOND SIGN IN STORES THAT NEED IT
E5	1	'NOW SERVING' OPEN PEEL SIGN - HALO LIT	PC284090 EVERY PIZZA THEATER STORE MUST ORDER
E6		LOGO - EXTERIOR WINDOW VINYL	PC273259
<b>GRAPHICS: WALLPAPER</b>			
W1		COLORED NEWSPRINT WALLPAPER #1	PC283091 OPTIONAL RESIN BOARD (PC283081)
W2		COLORED NEWSPRINT WALLPAPER #2	PC283092 OPTIONAL RESIN BOARD (PC283082)
W3		COLORED NEWSPRINT WALLPAPER #3	PC283093 OPTIONAL RESIN BOARD (PC283083)
W4		COLORED NEWSPRINT WALLPAPER #4	PC283094 OPTIONAL RESIN BOARD (PC283084)
W5		BLUE LOYALTY WALL PANEL	TEXTURED SURFACE VINYL BY MLE
<b>GRAPHICS: LOBBY WALLS</b>			
L1		SIZE PIZZA PAN ART (SET OF 6)	PC273258 9'-6" TO CENTER OF BOTTOM ROW FROM FLOOR
L2	1	SIZE PIZZA PAN ART (SET OF 3)	PC273257 5'-6" TO CENTER OF BOTTOM ROW FROM FLOOR XL SOLD SEPARATELY - PC 273263
L3		INGREDIENT PIZZA PAN ART (SET OF 4)	PC273211 5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE EITHER PAN ART OR LOBBY FRAMED PHOTO COLLAGE
L4		WHY WAIT & MCB PAN ART (SET OF 2)	PC273250 5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE
L5		PEPPER & DOM PAN ART (SET OF 2)	PC273251 5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE
L6		ANYWARE & SC BREAD PAN ART (SET OF 2)	PC273266 5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE
L7		'CAUTION DELIVERY EXPERTS' DOOR VINYL	PC273217 USED IF GLASS DOOR SEPARATES LOBBY FROM PRODUCTION AREA
L8		'TRACK IT' DIMENSIONAL RIBBON	PC273215
L9		FREE WIFI SPOT	PC273216 NEW STORE LAYOUT ONLY - NOT RETROFIT
L10		'HAND TOSSED FRESH DOUGH' WALL VINYL	PC273224
L11		'90% OF FRANCHISEES' WALL VINYL	PC283253
L12		PIZZA PROVERB - CHALK WALL VINYL	PC273208 5'-1" AFF TO BOTTOM OF BRACKET
L13	1	MANAGER'S SPECIAL - CHALK WALL VINYL	PC283209 4'-6" AFF TO BOTTOM OF BRACKET
L14		TELL US WHAT YOU THINK - CHALK WALL VINYL	PC273292 CHALK WALL
L15	1	2 CHALK TRAY	PC273025 2'-10" AFF ON CHALK WALL
L16		4 CHALK TRAY	PC273027 2'10" AFF ON CHALK WALL
L17		FRAMED PHOTO COLLAGE (SET OF 4)	PC273256 EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE - BOTTOM SHOULD BE 9'-6" FROM FLOOR
L18		WHYWAIT/RCB 20" X 24" RED 3PC WALL PRINTS	PC273420
L19		ONLINE/LOGO/PAN 20" X 24" RED 3PC WALL PRINTS	PC273421
L20		LOGO 30" X 36" RED WALL PRINT	PC273412
L21		MARBLED COOKIE BROWNIE 30" X 36" RED WALL PRINT	PC273413
L22		EASY ORDER 30" X 36" RED WALL PRINT	PC273414
L23		MEET DOM 30" X 36" RED WALL PRINT	PC273415
L24		WHY WAIT? 30" X 36" RED WALL PRINT	PC273416
L25		ORDER ONLINE 30" X 36" RED WALL PRINT	PC273417
L26		HANDMADE PAN PIZZA 30" X 36" RED WALL PRINT	PC273418
L27		REWARDS 30" X 36" RED WALL PRINT	PC273419
L28	1	REWARDS 30" X 36" WALL PRINT	
<b>GRAPHICS: CUSTOMER VIEWING LEDGE</b>			
V1	1	DIMENSIONAL LOGO AND BRAND STATEMENT VINYL	PC283221/22 RED FOCAL WALL - 6'-1" TO BOTTOM OF DOMINO
V2	1	'HAND TOSSED DOUGH' VINYL	PC273223 SNEEZE GUARD IN FRONT OF DOUGH COUNTER
V3		'DON'T FEED THE EMPLOYEES' VINYL	PC273229 SNEEZE GUARD IN FRONT OF MAKELINE
V4		'450' IS THE TEMP IT TAKES' VINYL	PC273230 SNEEZE GUARD IN FRONT OF MAKELINE
V5		'WE WORK HARD' VINYL	PC273228 SNEEZE GUARD IN FRONT OF MAKELINE
V6		'PIZZA INSPECTOR' STEP UP VINYL	PC284033 CHILD STEP - 1'-9" AFF TO BOTTOM OF GRAPHIC
<b>GRAPHICS: POS</b>			
P1	1	'PICK UP' SOFFIT DIMENSIONAL LETTERS	PC273232 MUST USE
P2	1	'ORDER' SOFFIT DIMENSIONAL LETTERS	PC273234 MUST USE
P3		'PICK UP' POS VINYL	PC273231 USE ON COUNTERS IF NO SOFFIT AVAILABLE
P4	1	PROMO CHALKBOARD FOR POS COUNTER	PC273237
<b>GRAPHICS: RESTROOM</b>			
R1		RESTROOM FRAMED ART (SET OF 2)	PC273242 ONE FOR EACH OPPOSITE BLUE WALL
R2		'KEEP YOUR FRIENDS' SIGN	PC283239
R3	1	UNISEX RESTROOM SIGN	PC4040
R4		WOMEN'S RESTROOM SIGN	PC4041
R5		MEN'S RESTROOM SIGN	PC4042
R6	1	'EMPLOYEES MUST WASH' SIGN	PC4043 REQUIRED BY SINK FOR CUSTOMER RESTROOM
<b>GRAPHICS: MERCHANDISING</b>			
G2		COUNTER MERCHANDISER DISPLAY	PC273249 PRICE STRIPS SOLD SEPARATELY
G3		HOT HOLD MERCHANDISER DISPLAY	PC273903 PRICE STRIPS SOLD SEPARATELY



**RELEASE FOR CONSTRUCTION**  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
07/16/2021

**GNICH ARCHITECTURE STUDIO**  
AN OREGON LIMITED LIABILITY COMPANY

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WWW.GNICHARCH.COM

04.22.21

**Project No: 5401 / Store #1684**  
Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64138  
816.501.8388

ISSUED FOR PERMIT:  
04.22.2021

REV: DATE | DESCRIPTION:

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SHEET NUMBER:  
**A4.0**

INTERIOR ELEVATIONS/  
ART PACKAGE  
SCHEDULE

SHEET NUMBER:  
A4.0

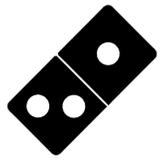
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 Kansas City, MO 64133

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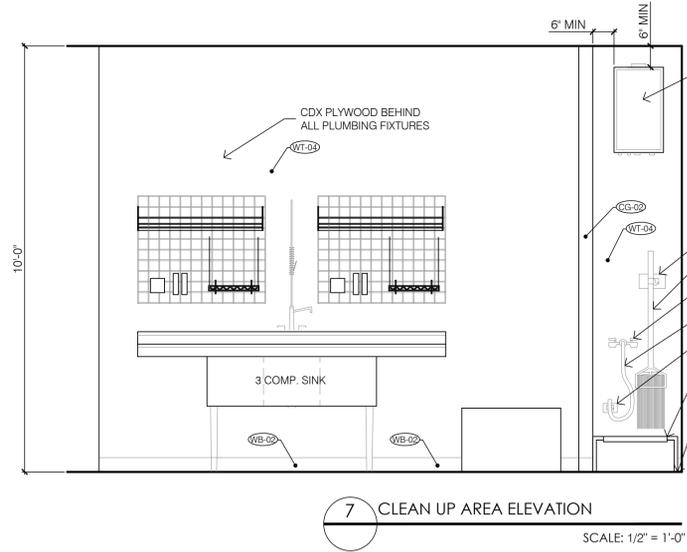
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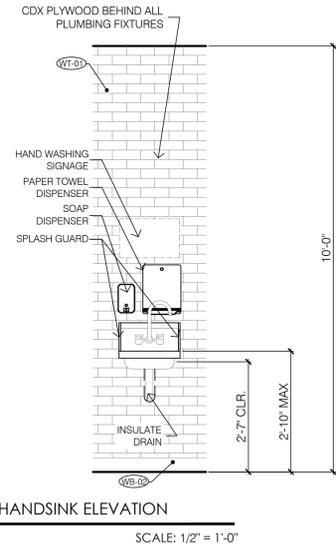
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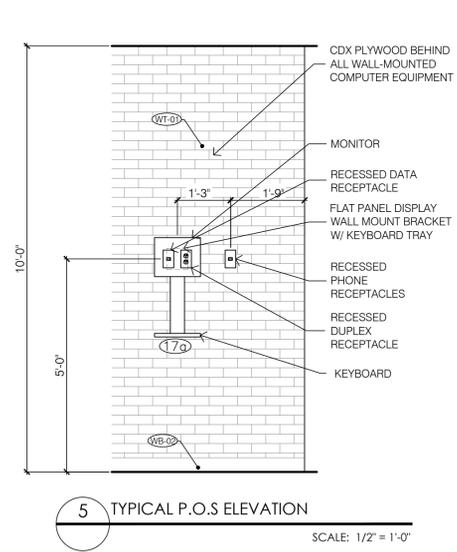
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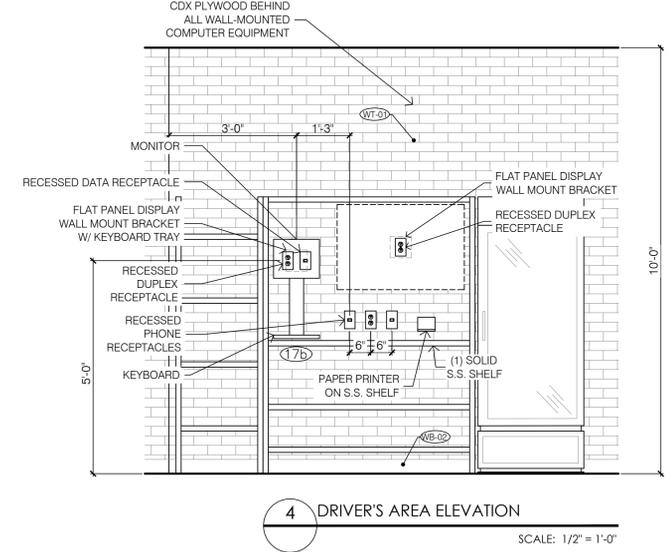
**7 CLEAN UP AREA ELEVATION**  
 SCALE: 1/2" = 1'-0"



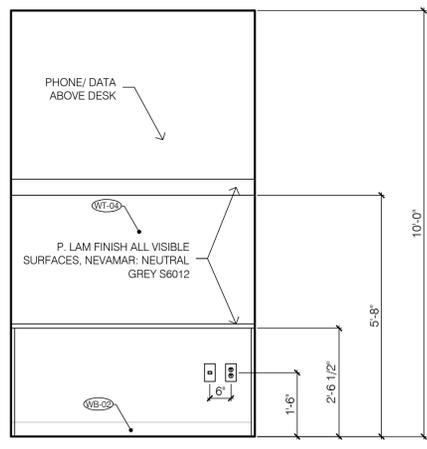
**6 TYPICAL HANDSINK ELEVATION**  
 SCALE: 1/2" = 1'-0"



**5 TYPICAL P.O.S. ELEVATION**  
 SCALE: 1/2" = 1'-0"

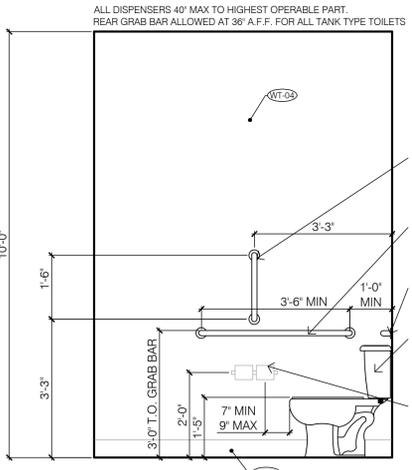


**4 DRIVER'S AREA ELEVATION**  
 SCALE: 1/2" = 1'-0"

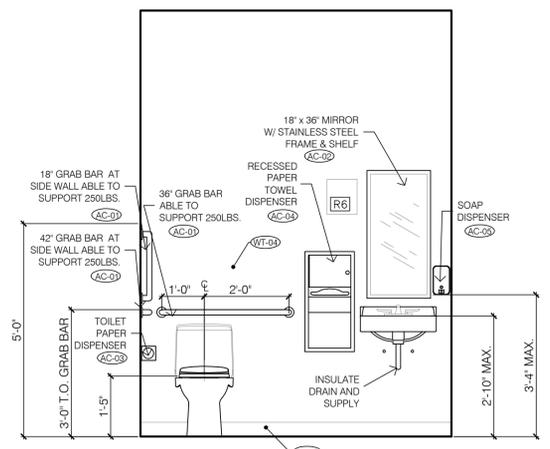


**3 MANAGER'S DESK ELEVATION**  
 SCALE: 1/2" = 1'-0"

TOILET ACCESSORY LEGEND (BY G.C.)						
MARK	MATERIAL	MANUFACTURER	MODEL #	COLOR	FINISH	COMMENT
AC-01	ADA GRAB BAR - 1.25" Ø	BOBRICK	B-5806	---	---	SIZE AND LOCATION ON PLAN
AC-02	MIRROR	BOBRICK	B-165 1836	---	---	MOUNT @ 40" A.F.F. MAX. TO BOT. OF REFLECTIVE SURFACE
AC-03	TOILET PAPER DISPENSER	BOBRICK	B-265	---	---	WALL MOUNT @ 24" A.F.F. MAX. TO CENTER OF ROLL
AC-04	RECESSED PAPER TOWEL DISPENSER	BOBRICK	B-369	---	---	WALL MOUNT @ 40" A.F.F. MAX. TO B.O. OF DISPENSER
AC-05	SOAP DISPENSER	BOBRICK	B-2111	---	---	WALL MOUNT @ 40" A.F.F. MAX. TO B.O. OF DISPENSER
AC-06	XLERATOR HIGH VELOCITY HAND DRYER	EXCEL DRYER INC.	XL-SB	---	S.S.	WALL MOUNT (OPTIONAL) SUBSTITUTE FOR AC-04
AC-07	ACCESSIBLE TOILET LH	ZURN	Z5550	WHITE	---	LEFT HAND FLOOR MOUNT. FRONT SEAT
AC-07	ACCESSIBLE TOILET RH	ZURN	Z5550	WHITE	---	RIGHT HAND FLOOR MOUNT. FRONT SEAT
NOTE: FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF WATER CLOSET						
AC-08	ACCESSIBLE SINK	ZURN	Z5940	WHITE	---	WALL MOUNT. MEETS ADA AND ANSI 117.1 REQUIREMENTS WITH REAR 34" A.F.F.



**2 RESTROOM ELEVATION**  
 SCALE: 1/2" = 1'-0"



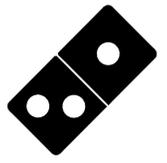
**1 RESTROOM ELEVATION**  
 SCALE: 1/2" = 1'-0"

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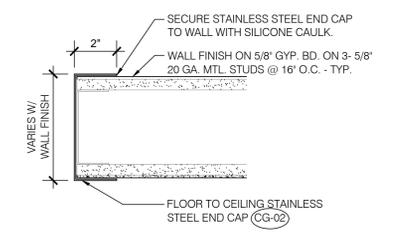
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INTERIOR DETAILS

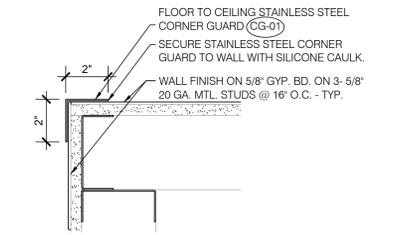
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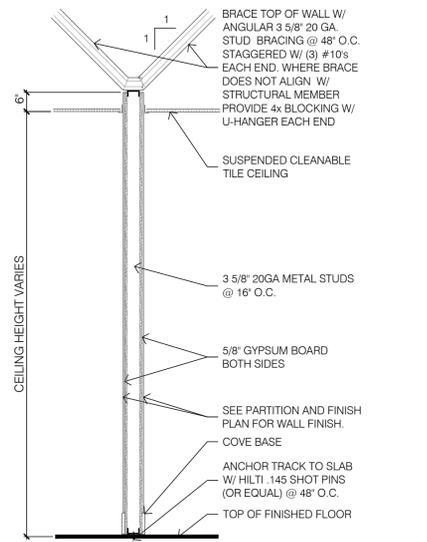
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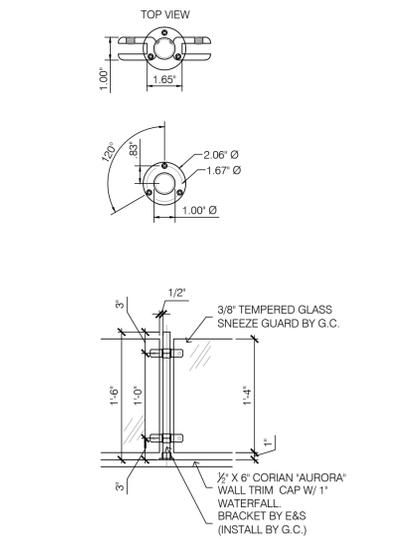
**7 STAINLESS STEEL END CAP DETAIL**  
 SCALE: 3" = 1'-0"



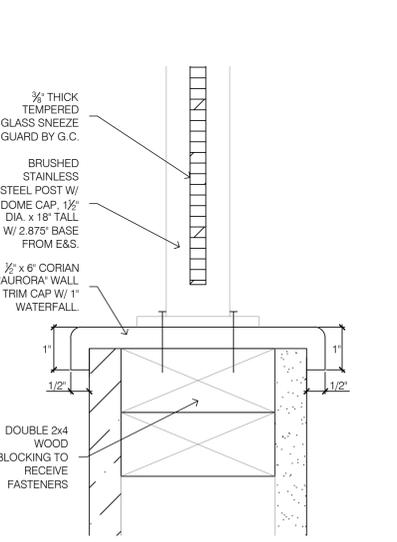
**6 STAINLESS STEEL CORNER GUARD DETAIL**  
 SCALE: 3" = 1'-0"



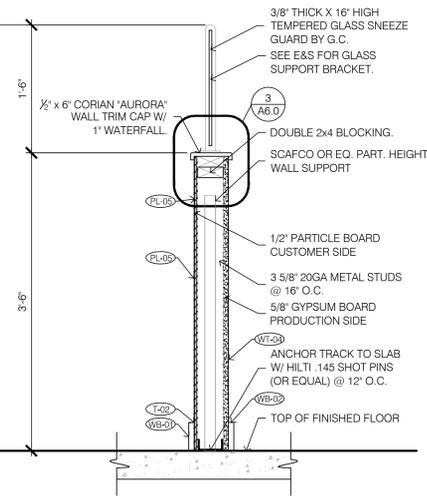
**5 TYPICAL INTERIOR PARTITION**  
 SCALE: 1/2" = 1'-0"



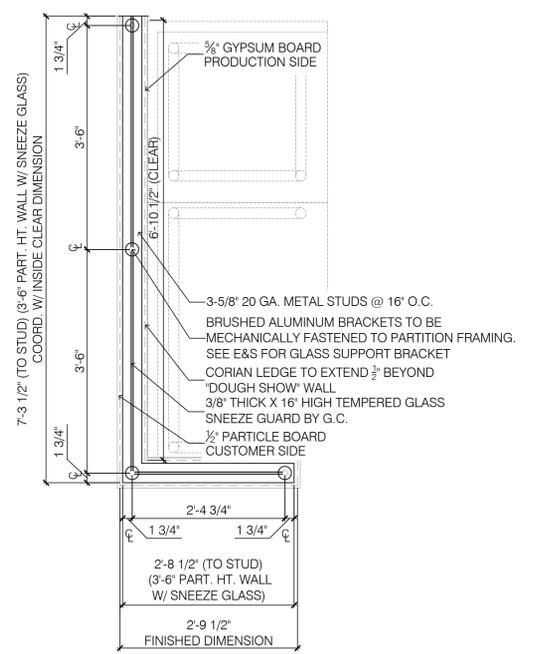
**4 SNEEZE GUARD SUPPORT BRACKET DETAIL**  
 SCALE: 1" = 1'-0" & 3" = 1'-0"



**3 GLASS SNEEZE GUARD DETAIL**  
 SCALE: 6" = 1'-0"



**2 PT. HEIGHT DOUGH WALL**  
 SCALE: 1" = 1'-0"



**1 SNEEZE GUARD WALL PLAN DETAIL**  
 SCALE: 3/4" = 1'-0"

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- WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED OR NOT SHOWN SHALL BE FURNISHED AND INSTALLED COMPLETE TO PERFORM REQUIRED FUNCTION.
- ELECTRICAL PLANS ARE DIAGRAMMATICAL. DO NOT SCALE. COORDINATE ACTUAL LOCATIONS OF ALL DEVICES AND ROUTING OF ALL RACEWAYS WITH ARCHITECT AND ALL TRADES PRIOR TO ANY ROUGH-IN.
- ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. THE MATERIAL SHALL BE THE PRODUCT OF SUBSTANTIALLY ESTABLISHED AND RECOGNIZED MANUFACTURER'S.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF ALL OTHER TRADES. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO SEE THAT THIS WORK IS INSTALLED IN A TIMELY MANNER. PLAN AND INSTALL ALL ELECTRICAL WORK IN SUCH A MANNER AS TO PREVENT OBSTRUCTIONS, AND KEEP OPENINGS AND PASSAGeways CLEAR. CONSULT ALL CONTRACT DRAWINGS FOR CONDITIONS AFFECTING THIS WORK AND VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. NOTIFY ARCHITECT IMMEDIATELY OF POSSIBLE CONFLICTS. WHERE INTERFERENCE WITH STRUCTURAL, MECHANICAL OR OTHER FEATURES EXIST, OR WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT EXTRA COST TO OWNER OR ARCHITECT.
- THIS CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND VISIT THE SITE PRIOR TO SUBMITTING HIS BID. HE SHALL INCLUDE ALL WORK IN HIS BID DISCRETELY FROM REVIEW OF DOCUMENTS AND SITE VISIT. NO SUBSEQUENT ALLOWANCES WILL BE MADE FOR LACK OF REASONABLE REVIEW OF DOCUMENTS AND SITE VISIT.
- THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL EIGHT (8) SETS OF SHOP DRAWINGS ON THE FOLLOWING: PANELBOARDS, DISCONNECT SWITCHES, LIGHTING FIXTURES, LAMPS, DEVICES AND COVERPLATES, FIRE ALARM EQUIPMENT AND ANY OTHER ITEMS REQUESTED BY THE ARCHITECT.
- THIS CONTRACTOR SHALL LEAVE EACH ENTIRE ELECTRICAL SYSTEM IN PROPER WORKING ORDER AND SHALL REPLACE ANY WORK OR MATERIAL PROVIDED BY HIM UNDER THIS CONTRACT WHICH DEVELOPS DEFECTS WITHIN (1) YEAR OF FINAL ACCEPTANCE BY OWNER.
- THIS CONTRACTOR SHALL PROVIDE, MAINTAIN AND REMOVE AFTER CONSTRUCTION IS COMPLETE, AND ADEQUATE TEMPORARY POWER AND LIGHTING SYSTEM.
- PANELBOARDS SHALL BE OF THE SAME MANUFACTURER, (SQUARE 'D', CUTLER-HAMMER, GE OR ITE/SEIMENS). PROVIDE SCREW-ON ENGRAVED NAMEPLATES FOR ALL DISTRIBUTION EQUIPMENT.
- THIS CONTRACTOR SHALL PROVIDE NEW, TYPED, PANELBOARD DIRECTORIES FOR ALL NEW AND/OR EXISTING PANELS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORIES SHALL INDICATE THE LOAD TYPE AND AREA SERVED. PROVIDE ALL FIELD VERIFICATION WORK AS NECESSARY.
- LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS, HANGERS AND INCIDENTALS. FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE. ALL LIGHTING FIXTURES, LAMPS AND LENSES SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL ACCEPTANCE.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH HIGH IMPACT NYLON COVERPLATES. COLOR OF DEVICES AND COVERPLATES AS DIRECTED BY THE ARCHITECT. ACCEPTABLE MANUFACTURER'S ARE HUBBELL, P&S, GENERAL ELECTRIC AND COOPER INDUSTRIES.
- WIRE SHALL BE "THIN" OR "XHNH" COPPER, 90°C, 600 VOLTS, SOLID SIZE 10 AND SMALLER, STRANDED SIZE 8 AND LARGER. ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE A GREEN CODE SIZE EQUIPMENT GROUND. MINIMUM SIZE WIRE #12 AWG, UNLESS OTHERWISE NOTED.
- ALL INTERIOR WIRING SHALL BE IN EMT WITH STEEL, SET SCREW FITTINGS. EMT SHALL BE USED IN ALL BLOCK (CMU) WALLS. TYPE MC (METAL-CLAD) CABLE MAY BE USED ON THIS PROJECT SUBJECT TO MEETING ALL OF THE FOLLOWING CONDITIONS:
  - THE LOCAL AUTHORITIES HAVING JURISDICTION MUST ALLOW THE USE OF MC CABLE.
  - THE ARCHITECT AND OWNER MUST APPROVE OF THE USE OF MC CABLE.
  - THE CABLE STRUCTURE AND INSTALLATION ARE IN ACCORDANCE WITH UL, NEC AND LOCAL CODE REQUIREMENTS.
  - THE MC CABLE CONDUCTOR SIZE MEETS THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS AND NEC. THE MINIMUM WIRE SIZE SHALL BE #12 AWG, THIN OR THIN.
  - THE MC CABLE MUST CONTAIN AN NEC SIZE GREEN GROUND CONDUCTOR FOR ALL CIRCUITS.
  - RECORD DRAWINGS (AS-BUILT DRAWINGS) SHALL REFLECT THE USE AND ROUTING LOCATIONS OF THE MC CABLE.
- THIS CONTRACTOR SHALL COORDINATE AN MAKE FINAL CONNECTIONS FOR MECHANICAL EQUIPMENT. SIZE ALL FUSES/CIRCUIT BREAKERS PROTECTING MECHANICAL EQUIPMENT PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL WIRING, RACEWAYS, OUTLET AND JUNCTION BOXES, MOTOR STARTERS, DISCONNECT AND CONTROLS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS, UNLESS NOTED OTHERWISE. VERIFY EQUIPMENT REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO BID.
- THIS CONTRACTOR SHALL NOT INTERRUPT OR REMOVE ANY EXISTING CIRCUITS OR EQUIPMENT UNLESS NOTED OTHERWISE ON PLANS OR DAMAGED OR EQUIPMENT OR EQUIPMENT SHALL BE RESTORED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER OR ARCHITECT.
- ALL PENETRATIONS OF FIRE-RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION THAT CONFORM TO UNDERWRITER'S LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE WITH THE U.L. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATIONS, WITH ALL VARIABLES DEFINED.
- THE FINAL DETERMINATION OF EXIT LIGHTING LOCATIONS AND EGRESS PATHWAYS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL CONFIRM AND VERIFY THE LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTING WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE SYSTEM FURNITURE JUNCTION BOX LOCATIONS WITH THE SUPPLIER AND MAKE ALL FINAL FLEXIBLE CONNECTIONS TO SAME.

**ABBREVIATIONS      DEVICE MTG. HEIGHTS**

AF	ABOVE FINISHED FLOOR	ALL HEIGHTS ARE ABOVE FINISHED FLOOR AND TO THE CENTERLINE OF THE DEVICE U.N.O.
AFD	ABOVE FINISHED GRADE	
ATS	AUTOMATIC TRANSFER SWITCH	
EDF	ELECTRIC DRINKING FOUNTAIN	
EF	EXHAUST FAN	
GF	GROUND FAULT INTERRUPTER	RECEPTACLES +18" TELEPHONE OUTLETS +18"
GRD	GROUNDING/BONDING CONDUCTOR	DATA OUTLETS +18"
MCC	MOTOR CONTROL CENTER	ABOVE COUNTER RECEPTACLES, TELEPHONE AND DATA OUTLETS VERIFY WITH ARCHITECT PRIOR TO ROUGH IN.
NIC	NOT IN CONTRACT	
NL	NIGHT LIGHT	
PNL	PANEL	
SES	SERVICE ENTRANCE SECTION	SWITCHES +48"
SWBD	SWITCHBOARD	DIMMERS +48"
UNO	UNLESS NOTED OTHERWISE	OTHER CONTROLS +48"
WP	WEATHERPROOF	TIME SWITCHES +48"
A/C	AIR CONDITIONING UNIT	RECEPTACLE(S) LOCATED AT TMB +48"
E/C	EVAPORATIVE COOLER	
FACP	FIRE ALARM CONTROL PANEL	FA MANUAL PULL STATION +48"
FBO	FURNISHED BY OTHERS	FA VISUAL DEVICES +80" FA AUDIO DEVICES +80"

**PANELBOARD SYMBOLS SCHEDULE**

- INDICATES EXISTING LOAD AND BREAKER TO REMAIN, NO REVISION. EXISTING LOADS MAY HAVE BEEN ESTIMATED.
- ⊙ INDICATES CIRCUIT BREAKER TO BE SUITABLE AND U.L. LISTED FOR "SWITCHING DUTY"
- INDICATES NEW LOAD HAS BEEN ADDED TO EXISTING BREAKER.
- INDICATES EXISTING LOAD HAS BEEN REMOVED, BREAKER TO BECOME SPARE.
- INDICATES NEW LOAD AND NEW BREAKER ADDED TO EXISTING BUSSED SPACE.
- ◻ INDICATES EXISTING LOAD AND BREAKER HAS BEEN REMOVED AND REPLACED WITH NEW BREAKER AND NEW LOAD.
- ◆ INDICATES PROVIDE LOCK-CLOSED DEVICE ON THE BREAKER.
- ◇ INDICATES PROVIDE LOCK-OPEN DEVICE ON THE BREAKER.
- ▽ INDICATES ISOLATED GROUNDING CIRCUIT.
- △ INDICATES CIRCUIT THRU LIGHTING CONTRACTOR. SEE WIRING DIAGRAM.
- ▲ INDICATES CIRCUIT THRU PHOTO ELECTRIC CELL. PROVIDE 20A. PHOTO CELL AS REQUIRED.
- ◆ INDICATES CIRCUIT THRU TIME CLOCK. PROVIDE A TIME CLOCK AS REQUIRED.
- N INDICATES NON-CONTINUOUS LOAD ● 100%
- C INDICATES CONTINUOUS LOAD ● 125%
- M INDICATES MOTOR LOAD ● 100%
- LM INDICATES LARGEST MOTOR LOAD ● 125%
- SR INDICATES SPARE CIRCUIT BREAKER
- SP INDICATES BUSSED SPACE
- GF INDICATES GFCI CIRCUIT BREAKER

**ELECTRICAL SYMBOLS**

- NOTE: SOME SYMBOLS IN THIS LIST MAY NOT BE USED FOR THIS PROJECT.
- CEILING MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- WALL MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- WALL WASHER LIGHT FIXTURE. ARROW INDICATES GENERAL DIRECTION OF WASH. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- FLOURESCENT LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- TRACK LIGHTING SYSTEM. TRIANGLES DENOTE TRACK LIGHT FIXTURES. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- POLE MOUNTED LIGHT FIXTURE. L# DESIGNATES TYPE. MULTIPLE LUMINARIES AS SHOWN ON PLANS. SEE LIGHT FIXTURE SCHEDULE FOR DETAIL. SEE POLE MOUNTING DETAIL FOR POLE INFORMATION.
- SPOT OR FLOOD LIGHT. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- FLOURESCENT LIGHT FIXTURE WITH (2) LAMPS SERVED BY A FULL LIGHT OUTPUT EMERGENCY BALLAST. "NL" INDICATES FIXTURE SHALL BE CONNECTED TO UNSWITCHED CIRCUIT. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- EXIT LIGHT FIXTURE. MOUNTING NOT SHOWN ON DRAWINGS. SHADED PORTION INDICATES FACE OF SIGN. PROVIDE ARROWS ON FACE(S) OF FIXTURE AS SHOWN ON PLANS. SEE FIXTURE SCHEDULE FOR DETAILS.
- JUNCTION BOX IN ACCESSIBLE LOCATION.
- FLEXIBLE CONDUIT EQUIPMENT CONNECTION. PROVIDE GROUND BUSHING AND GROUND CONDUCTOR IN ACCORDANCE WITH THE NEC. PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FOR EQUIPMENT LOCATED OUTSIDE.
- TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.
- TWO POLE TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.
- THREE WAY TOGGLE SWTCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.
- FOUR WAY TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O.
- MOTOR RATED SWITCH, VOLTAGE AND PHASE RATED WITH THERMAL OVERLOAD PROTECTION. NEMA 3R WHEN LOCATED OUTSIDE.
- TIMECLOCK. 3-POLE SINGLE THROUGH, 24-1R ASTRONOMIC DIAL WITH DAY OMITTING DEVICE. RESERVE POWER, AND NEMA 1 ENCLOSURE FOR INDOORS - NEMA 3R ENCLOSURE WHEN LOCATED OUTSIDE. EQUAL TO TORK #7300-2L U.N.O.
- PHOTOCELL SWITCH. MOUNT ABOVE ROOF AND AIM NORTH. EQUAL TO TORK #2100.
- DIMMER SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. SUPERSCRIP NUMBER INDICATES: 1=1000 WATTS, 2=2000 WATTS, NONE =600 WATTS. DO NOT REMOVE COOLING FINS.
- DUPLEX RECEPTACLE. MOUNT AT 18" ABOVE FINISHED FLOOR U.N.O.
- DUPLEX RECEPTACLE. MOUNT 6" ABOVE SPLASH OF COUNTER TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT.
- SWITCH RATED DUPLEX RECEPTACLE. TIE STRAP REMOVED FOR "CONSTANT" AND SWITCHED LEG CONTROL WIRING.
- CEILING MOUNTED DUPLEX RECEPTACLE
- QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVICE PLATE. MOUNT AT 18" ABOVE FINISHED FLOOR U.N.O.
- QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVICE PLATE. MOUNT AT 6" ABOVE SPLASH OF COUNTER TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT.
- CIRCUIT BREAKER. AMPERAGE/POLES, AS INDICATED.
- SWITCH WITH FUSES. AMPERAGE/POLES, AND FUSE SIZE AND TYPE AS INDICATED.
- FUSED PULL-OUT SWITCH. AMPERAGE/POLES, AND FUSE SIZE AND TYPE AS INDICATED.
- FUSE. SIZE AND TYPE AS INDICATED. ALL FUSE TYPES NOTED ARE BUSMAN DESIGNATIONS U.N.O.
- TRANSFORMER. DRY TYPE. PAD MOUNT, WITH KVA, PRI. & SEC. VOLTAGE, MIN. IMPEDANCE, AND "K" RATING AS NOTED. 150°C RISE U.N.O. PROVIDE SEPARATELY DERIVED SOURCE GROUNDING PER NEC 250-26. CONDUCTOR SIZE AS NOTED.
- SERVICE ENTRANCE SECTION. SEE ONE-LINE DIAGRAM.
- FLUSH FLOOR OUTLET WITH DEVICE SHOWN. PROVIDE WITH BRASS DEVICE PLATE AND CARPET FLANGE. IN CARPETED AREAS. TELEPHONE AND DATA OUTLETS SHALL HAVE MIN. 1" WITH PULL STRING STUBBED UP INTO ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT BUSHINGS ABOVE CEILING.
- SPECIAL PURPOSE RECEPTACLE WITH NEMA CONFIGURATION NOTED, 16: 6-50, 15-20, ETC.
- MULTI OUTLET ASSEMBLY (MOA). MOUNT AT 6" ABOVE COUNTER SPLASH WHERE LOCATED BEHIND COUNTER, OR AT 12", U.N.O.

- RECEPTACLE SUBSCRIPTS - PROVIDE THE FOLLOWING DEVICE FEATURES WHERE NOTED:
- GF GROUND FAULT CIRCUIT INTERRUPTER
  - IG ISOLATED GROUND. PROVIDE SEPARATE GROUND CONDUCTOR FROM PANELBOARD WITHOUT ANY SPLICE. VERIFY NEMA CONFIGURATION WITH EQUIPMENT TO BE SERVED PRIOR TO ROUGH-IN.
  - V CORD AND CAP. PROVIDE 6" CORD AND CAP FOR THE EQUIPMENT TO MATCH RECEPTACLE TYPE AND AMPERAGE.
  - CC
- DATA OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- TELEPHONE OUTLET. MOUNT AT 18" ABOVE FINISH FLOOR U.N.O. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING. "P" INDICATES PAY PHONE. PROVIDE #6 CU GROUND PER NEC 800-40.
- DATA AND TELEPHONE OUTLETS COMBINED IN ONE BOX. PROVIDE (2) 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- SPEAKER. PROVIDE SPEAKER, BACKBOX, AND GRILL. VERIFY MOUNTING TYPE AND LOCATION WITH SPECIFICATIONS AND PLANS.
- 2" x 2" x 3/4" THICK FIRE RATED TELEPHONE MOUNTING BOARD. MOUNT AT 6" BELOW CEILING. PROVIDE #6 SOLID CU GROUND PER NEC 800-40.
- CIRCUITS IN CONCEALED CONDUIT U.N.O. NO DISTINCTION IS MADE FOR UNDERGROUND OR OVERHEAD CONDUITS. "N" INDICATES HOMERUN TO PANELBOARD OR AS NOTED.
- HACHURES INDICATE NUMBER OF PHASE AND NEUTRAL CONDUCTORS, WHERE NO HACHURES ARE SHOWN PROVIDE 2#12 CU, #12 CU BOND IN 1/2" CONDUIT. WHEN HOMERUN CONDUCTORS ARE LARGER THAN #12, PROVIDE INDICATED SIZE FOR ENTIRE LENGTH OF CIRCUIT. BOND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN, PROVIDE EQUIPMENT BOND WITH ALL CIRCUITS PER NEC 250-95. PROVIDE ISOLATED GROUND FOR IG RECEPTACLES PER NEC 250-95.
- PANELBOARD. SURFACE OR FLUSH MOUNTED AS NOTED IN PANEL SCHEDULE.
- MOTOR. SIZE AND RATING AS SHOWN. "EF" INDICATES EXHAUST FAN.
- PREWIRED MOTOR CONTROLLER FURNISHED WITH EQUIPMENT.
- MAGNETIC MOTOR STARTER. SIZE, VOLTAGE, PHASE, AND NUMBER OF POLES AS REQUIRED. FURNISHED WITH (1) N.O./N.C. FIELD CONVERTIBLE AUXILIARY CONTACT. SHALL BE SINGLE SPEED NON-REVERSING U.N.O. PROVIDE NEMA 3R WHEN LOCATED OUTSIDE.
- COMBINATION DISCONNECT SWITCH AND MOTOR STARTER WITH ENCLOSURE. SEE DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SYMBOLS.
- HEAVY DUTY DISCONNECT SWITCH. PROVIDE AS NOTED: AMPERAGE/VOLTAGE/NO. OF POLES/WEATHERPROOF FUSE SIZE AND DESIGNATION. NF = NON-FUSIBLE
- TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

**FAULT CURRENT SCHEDULE**

DEVICE	AIC RATING	I-N VOLTS	UTILITY			FED FROM				FEEDER					
			FAULT	X	R	DEVICE	FAULT	X	R	SIZE	X / 1000'	R / 1000'	LENGTH	X	R
SES	42,000	120V	42,000	0.002802	0.0005603					(2)#3/0	0.039	0.023		0	0
A	10,000	120V	5,841	0.0117	0.01688	SES	42,000	0.002802	0.0005603	#3/0	0.042	0.077	212'	0.0089	0.0163
B	10,000	120V	5,377	0.01225	0.01865	A	5,841	0.0117	0.01688	#1	0.046	0.15	12'	0.0005	0.0018

**A**

ROOM	VOLTS 208Y/120V 3P 4W	AIC 10,000
MOUNTING FLUSH	BUS AMPS 200	MAIN BKR MLO
FED FROM SES	NEUTRAL 100%	LUGS STANDARD
NOTE	EXISTING	

OCT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD			OCT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD			
			A	B	C				A	B	C	
1	20/1	K24 60" HEAT LAMP GFCI	1.26			2	20/1	BLDG SIGN	1.2	0		
3	20/1	K24 60" HEAT LAMP GFCI	1.26			4	-/1	SPACE				
5	20/1	K24 60" HEAT LAMP GFCI		1.26		6	20/2	AHU-(1E) EXISTING		0.432	0.432	
7	20/1	MISC. W/H & PUMP	0.6			8	-/1	SPACE				
9	20/1	DINING RM REC. GFCI		0.18		10	20/3	CU-(1E) EXISTING				
11	20/1	SMOKE DETECTOR		0.15		12	-/1	SPACE				
13	20/1	K10 MAKELINE LCP GFCI	1.03			14	-/1	SPACE	1.59	1.59		
15	-/1	SPACE		0		16	20/1	WALK-IN COOLER HEAT TAPE & LIGHTS		0.72		
17	20/1	MISC. SHOW WINDOW LTG.		1.2		18	20/2	K27B WALK-IN COOLER CONDENSING UNIT	1.89	1.89		
19	30/2	208V DRYER	2.88			20	-/1	SPACE				
21	-/1	CLOTHES WASHER GFCI		2.88		22	20/1	K27A EVAP UNIT		0.24	0.72	
25	20/1	K20 - DOOR VRS-COOL GFCI	0.9			26	100/3	MAKELINE REC. GFCI				
28	20/1	CUST AREA LIGHTING		0.166		28	-/1	PANEL B		7	9.51	
29	20/1	PROD AREA EF-1, LIGHTING		0.908		30	-/1	SPACE				
									TOTAL CONNECTED KVA BY PHASE	18.9	14	19.2
									TOTAL CONNECTED AMPS BY PHASE	157	117	160

**B**

ROOM	VOLTS 208Y/120V 3P 4W	AIC 10,000
MOUNTING FLUSH	BUS AMPS 125	MAIN BKR MLO
FED FROM A	NEUTRAL 100%	LUGS STANDARD
NOTE	NEW	

OCT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD			OCT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD			
			A	B	C				A	B	C	
1	20/1	K12 BOFI CONVEYOR OVEN	0.72			2	20/1	K12 BOFI CONVEYOR OVEN	0.72	0		
3	-/1	SHUNT TRIP		0		4	-/1	SHUNT TRIP		0	1.2	
5	-/1	SPACE		0		6	20/1	GREASE TRAP REC.		0		
7	20/1	RS REC. GFCI	0.18			8	-/1	SPACE				
9	20/1	GPS TV GFCI	0.6			10	-/1	SPACE		0	0.36	
11	20/1	PIZZA TRACKER TV GFCI		0.6		12	20/1	MAN OFF REC.		0.36		
13	20/1	DRY STORAGE TOP REC. GFCI		0.6		14	20/1	MAN OFF REC.			1.08	
15	20/1	UNIFIED OFF MON GFCI	0.72			16	20/1	MENU MONITOR GFCI	0.36	0.6		
17	20/1	DOMINO'S LOGO REC. GFCI		0.18		18	20/1	T.M.B. REC.		0.54	1.66	
19	20/1	ROOF RECEPTACLE GFCI		0.36		20	20/1	DAMPER		1.66	1.66	
21	20/1	RECORDATA PRINTER REC. GFCI		0.18		24	20/1	AHU-3		0.6	0.3	
23	20/1	DRIVER DISP REC. GFCI		0.18		24	20/1	AHU-2		0.3	1.98	
25	20/1	P.O.S. REC. GFCI	0.6			26	20/1	MAKELINE MONITOR GFCI		0.6	0.3	
27	20/1	P.O.S. REC. GFCI		0.6		28	20/1	MAKELINE MONITOR GFCI		0.3	1.98	
29	-/1	DINING RM GFCI		0		30	30/2	CU-2		1.98	1.98	
31	-/1	ORDER STA GFCI		0.18		32	-/1	CU-3				
33	20/1	ORDER STA REC. GFCI		0		34	30/2	CU-3				
35	-/1	SPACE		0		36	40/3	TVSS		0	0	
37	20/3	EFH-1	0.305			38	40/3	TVSS		0	0	
39	-/1	SPACE		0.305		40	-/1	SPACE				
41	-/1	SPACE		0.305		42	-/1	SPACE				
									TOTAL CONNECTED KVA BY PHASE	7.08	7	9.51
									TOTAL CONNECTED AMPS BY PHASE	58.6	59.1	79.2

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  - IG ISOLATED GROUND. PROVIDE SEPARATE GROUND CONDUCTOR FROM PANELBOARD WITHOUT ANY SPLICE. VERIFY NEMA CONFIGURATION WITH EQUIPMENT TO BE SERVED PRIOR TO ROUGH-IN.
  - V CORD AND CAP. PROVIDE 6" CORD AND CAP FOR THE EQUIPMENT TO MATCH RECEPTACLE TYPE AND AMPERAGE.
  - CC
- DATA OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- TELEPHONE OUTLET. MOUNT AT 18" ABOVE FINISH FLOOR U.N.O. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING. "P" INDICATES PAY PHONE. PROVIDE #6 CU GROUND PER NEC 800-40.
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- SPEAKER. PROVIDE SPEAKER, BACKBOX, AND GRILL. VERIFY MOUNTING TYPE AND LOCATION WITH SPECIFICATIONS AND PLANS.
- 2" x 2" x 3/4" THICK FIRE RATED TELEPHONE MOUNTING BOARD. MOUNT AT 6" BELOW CEILING. PROVIDE #6 SOLID CU GROUND PER NEC 800-40.
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- HACHURES INDICATE NUMBER OF PHASE AND NEUTRAL CONDUCTORS, WHERE NO HACHURES ARE SHOWN PROVIDE 2#12 CU, #12 CU BOND IN 1/2" CONDUIT. WHEN HOMERUN CONDUCTORS ARE LARGER THAN #12, PROVIDE INDICATED SIZE FOR ENTIRE LENGTH OF CIRCUIT. BOND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN, PROVIDE EQUIPMENT BOND WITH ALL CIRCUITS PER NEC 250-95. PROVIDE ISOLATED GROUND FOR IG RECEPTACLES PER NEC 250-95.
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- MOTOR. SIZE AND RATING AS SHOWN. "EF" INDICATES EXHAUST FAN.
- PREWIRED MOTOR CONTROLLER FURNISHED WITH EQUIPMENT.
- MAGNETIC MOTOR STARTER. SIZE, VOLTAGE, PHASE, AND NUMBER OF POLES AS REQUIRED. FURNISHED WITH (1) N.O./N.C. FIELD CONVERTIBLE AUXILIARY CONTACT. SHALL BE SINGLE SPEED NON-REVERSING U.N.O. PROVIDE NEMA 3R WHEN LOCATED OUTSIDE.
- COMBINATION DISCONNECT SWITCH AND MOTOR STARTER WITH ENCLOSURE. SEE DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SYMBOLS.
- HEAVY DUTY DISCONNECT SWITCH. PROVIDE AS NOTED: AMPERAGE/VOLTAGE/NO. OF POLES/WEATHERPROOF FUSE SIZE AND DESIGNATION. NF = NON-FUSIBLE
- TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" C. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

**SHEET NOTE**

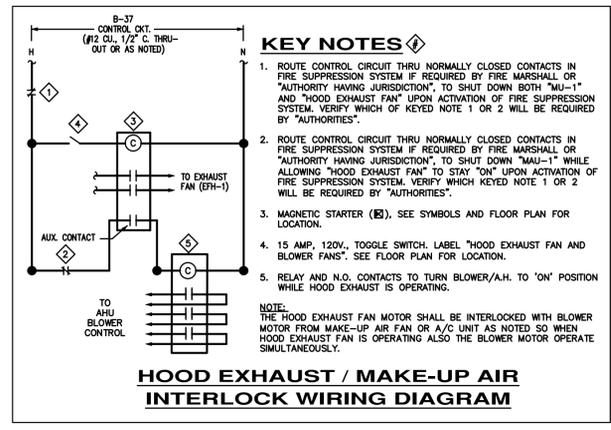
- PER NEC 408.4 - EVERY BRANCH CIRCUIT AND CIRCUIT MODIFICATION MUST BE UNIQUELY IDENTIFIED. PROVIDE A TAG AT EACH CIRCUIT CONDUCTORS J

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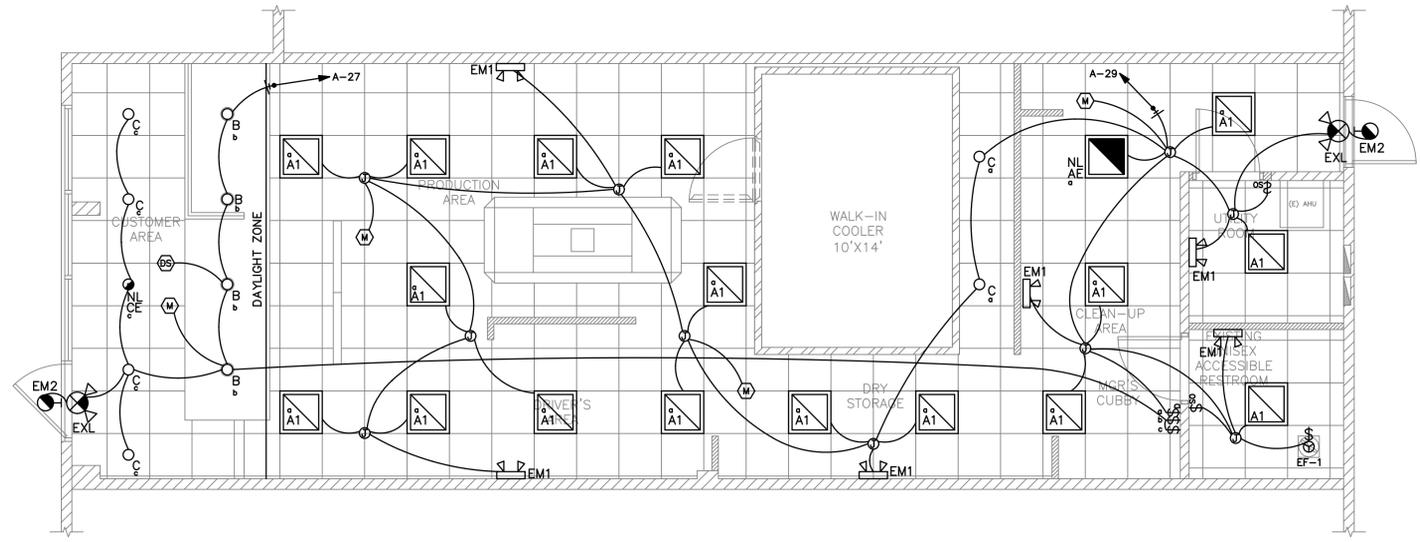
LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	LAMP	MODEL	DESCRIPTION	BALLAST	MOUNTING	INPUT WATTS	VOLTS
A1		(1) LED	COLUMBIA LJT22-50-VLG-FSA12-EDU	2'X2' LED 4718 LUMEN PRISMATIC TROFFER	STANDARD	CEILING	42	120V 1P 2W
AE		(1) LED	COLUMBIA LJT22-50-VLG-FSA12-EDU-ELL14	2'X2' LED 4718 LUMEN PRISMATIC TROFFER NIGHT LIGHT.	STANDARD	CEILING	42	120V 1P 2W
B		(1) LED	LOTUS LED LL6R-30K-WH-FRP6	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
C		(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
CE		(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT NIGHT LIGHT	STANDARD	RECESSED	17	120V 1P 2W
EM1		(2) 0.56W LED	COMPASS (HUBBELL) CU2	LED EMERGENCY LIGHT WITH EMERGENCY BATTERY BACK UP 90 MINUTE MINIMUM.	STANDARD	WALL	1	120V 1P 2W
EM2		(2) 3W LED	COMPASS (HUBBELL) CUW	DECORATIVE LED AC/EMERGENCY LIGHT WATERPROOF	STANDARD	WALL	9	120V 1P 2W
EXL		(1) 4.12W LED	COMPASS (HUBBELL) CCR	EXIT SIGN WITH EMERGENCY BATTERY BACKUP 90 MIN MINIMUM	STANDARD	WALL	4.12	120V 1P 2W

GENERAL NOTES:  
 A. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE & FIXTURE FINISHES, LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO PURCHASING ANY EQUIPMENT. ALSO CONFIRM THE EXACT CEILING TYPE PRIOR TO ORDERING ANY FIXTURES.  
 B. CONNECT ALL EXIT AND EMERGENCY LIGHTING TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.



**LIGHT SENSOR SYMBOLS:**

- STANDARD RANGE ULTRASONIC/INFRARED SENSOR (MOUNTED TO CEILING)  
MFR: SENSORSWITCH, CAT# CMR-PDT-9. (OR EQUAL)
- STANDARD RANGE AUTOMATIC DIMMING CONTROL SENSOR (MOUNTED TO CEILING)  
MFR: SENSORSWITCH, CAT# CMR-ADC. (OR EQUAL)  
(LOWER CASE LETTER DESIGNATES WHICH FIXTURES ARE TO BE CONTROLLED BY THIS SENSOR)
- WALL MOUNTED TIME SWITCH WITH OVERRIDE FUNCTION.  
MFR: INTERMATIC, CAT# EBDDWC. (OR EQUAL)  
COORDINATE LOCATION WITH OWNER. CONNECT TO 120V LIGHTING BRANCH CIRCUITS TO PROVIDE AUTOMATIC SHUT-OFF.
- DAY LIGHT SENSOR
- WALL MOUNTED OCCUPANCY/VACANCY SENSOR SWITCH
- WALL MOUNTED DIMMER SWITCH



**ELECTRICAL LIGHTING PLAN**  
SCALE: 1/4"=1'-0"

**COMcheck Software Version 4.1.5.1**  
**Interior Lighting Compliance Certificate**

**Project Information**  
 Energy Code: 2015 IECC  
 Project Title: DOMINO'S PIZZA  
 Project Type: Alteration

Construction Site: 3544 SW Market St, Lee's Summit, MO 64082  
 Owner/Agent: [Blank]  
 Designer/Contractor: AZ

Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Food Preparation	1170	1.21	1416
			Total Allowed Watts = 1416

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Watt.	E (C X D)
Common Space Types:Food Preparation (1170 sq.ft.)				
LED 1: A1: 2X2: Other:	1	17	42	714
LED 2: AE: 2X2 NL: Other:	1	1	42	42
LED 3: B: CAN: Other:	1	4	17	68
LED 4: C: CAN: Other:	1	4	17	68
LED 5: CE: CAN NL: Other:	1	1	17	17
			Total Proposed Watts =	909

**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

**COMcheck Software Version 4.1.5.1**  
**Inspection Checklist**  
 Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR4)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

RELEASE FOR CONSTRUCTION  
 AS NOTED ON PLANS REVIEW  
 DEVELOPMENT SERVICES  
 LEE'S SUMMIT, MISSOURI  
 07/16/2021

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Project No: 5401 / Store # 1684  
 Domino's Pizza Bakery Store  
 Pizza Theater Tenant Improvement  
 3544 SW Market St., Lee's Summit, MO 64082  
 for DESZ Management LLC dba Domino's  
 3901 Blue Ridge Cutoff  
 Kansas City, MO 64133  
 816.501.8388

ISSUED FOR PERMIT:  
 04.13.2021

REV: DATE: 07.15.21 DESCRIPTION: CITY COMMENTS

SHEET NAME:  
 ELECTRICAL LIGHTING PLAN

SDE-21058  
 SHEET NUMBER:

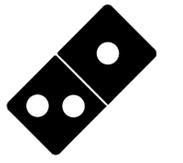
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3901 Blue Ridge Cutoff  
Kansas City, MO 64133

ISSUED FOR PERMIT:  
04.13.2021

REV: DATE: DESCRIPTION:  
A 07.15.21 CITY COMMENTS

SHEET NAME:  
ELECTRICAL POWER PLAN

SDE-21058  
SHEET NUMBER:

E3.0

GENERAL EQUIPMENT SCHEDULE										
CALLOUT	SYMBOL	DESCRIPTION	NEMA	VOLTS	AMPS	MCA	KVA	CALC. LOAD KVA	CIRCUIT	WIRE CALLOUT
AHU-1(E)		AIR HANDLER UNIT #1(E)		208V 2P 2W	4.15		0.86	1.08	A-6,8	3/4"C,2#12,#12G
AHU-2		AIR HANDLER #2		120V 1P 2W	13.8		1.66	2.07	B-22	3/4"C,1#12,#12N,#12G
AHU-3		AIR HANDLER #3		120V 1P 2W	13.8		1.66	2.07	B-24	3/4"C,1#12,#12N,#12G
CU-1(E)		CONDENSER UNIT #1(E)	NEMA 3R	208V 3P 3W	13.23	15.5	4.77	5.78	A-10,12,14	3/4"C,3#12,#12G
CU-2		CONDENSER UNIT #2	NEMA 3R	208V 2P 2W	19	19	3.95	4.94	B-30,32	3/4"C,2#12,#12G
CU-3		CONDENSER UNIT #3	NEMA 3R	208V 2P 2W	19	19	3.95	4.94	B-34,36	3/4"C,2#12,#12G
EF-1		EXHAUST FAN #1		120V 1P 2W	0.83		0.1	0.13	A-29	3/4"C,1#10,#10N,#10G
EFH-1		HOOD EXHAUST FAN	NEMA 3R	208V 3P 3W	2.54		0.91	1.14	B-37,39,41	3/4"C,3#12,#12G
HT & LIGHTS		HEAT TAPE & LIGHTS		120V 1P 2W	6		0.72	1	A-16	3/4"C,1#12,#12N,#12G
K10		MAKELINE LCP		120V 1P 2W	8.6		1.03	1	A-13	3/4"C,1#12,#12N,#12G
K12		DOUBLE STACK CONVEYOR		120V 1P 2W	6		0.72	1	B-1	3/4"C,1#12,#12N,#12G
K12		DOUBLE STACK CONVEYOR		120V 1P 2W	6		0.72	1	B-2	3/4"C,1#12,#12N,#12G
K20		SINGLE DOOR VSI-COOLER		120V 1P 2W	7.5		0.9	1.13	A-25	3/4"C,1#12,#12N,#12G
K24		60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-1	3/4"C,1#12,#12N,#12G
K24		60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-3	3/4"C,1#12,#12N,#12G
K24		60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-5	3/4"C,1#12,#12N,#12G
K27A		COOLER EVAP UNIT		120V 1P 2W	2		0.24	0.3	A-22	3/4"C,1#12,#12N,#12G
K27B		COOLER COND UNIT	NEMA 3R	208V 2P 2W	18.19		3.78	4.73	A-18,20	3/4"C,2#10,#10G

NOTE: ALL DISCONNECTS AND SWITCHES TO BE PROVIDED AND INSTALLED BY ELEC. CONTRACTOR.

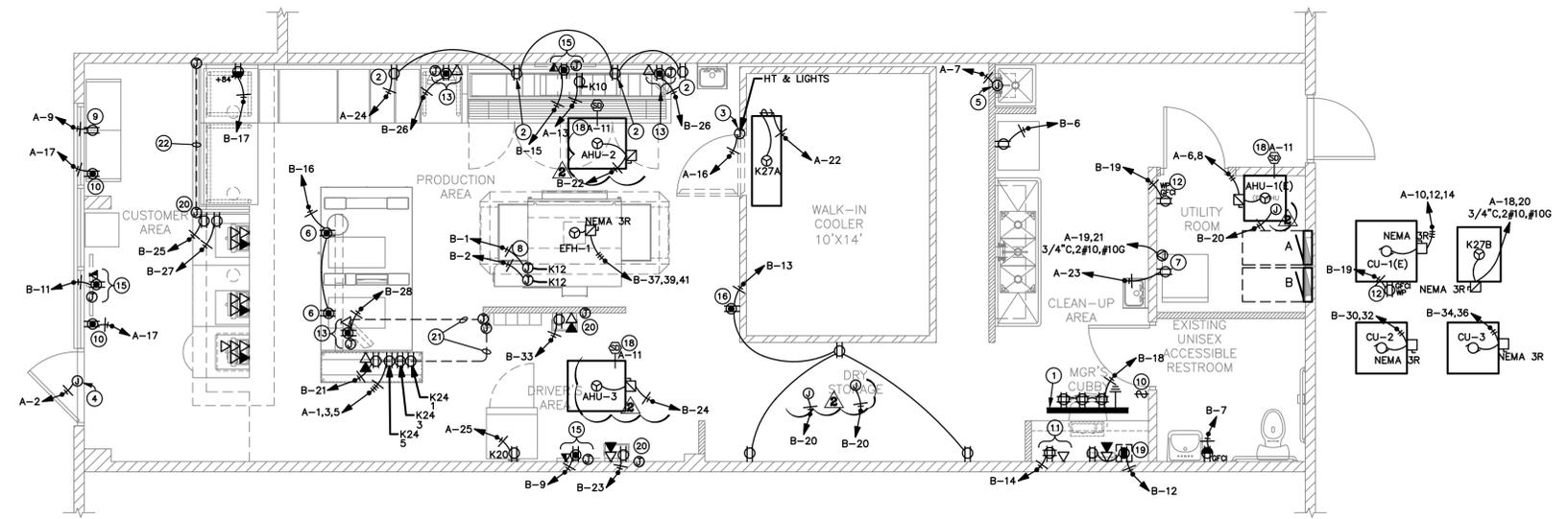
- ### GENERAL KITCHEN NOTES
- FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.
  - THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL KITCHEN FOOD SERVICE AND RELATED EQUIPMENT.
  - K# - INDICATES FOOD SERVICE EQUIPMENT IDENTIFICATION NUMBER. SEE KITCHEN SCHEDULE ON THIS SHEET.
  - THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMP, HP, KW, ETC. FOR ALL FOOD SERVICE EQUIPMENT PRIOR TO ROUGH-IN.
  - PROVIDE SEAL-OFF'S FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.
  - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ROUGH-IN REQUIREMENTS, LOCATIONS, ORIENTATION, VOLTAGE, PHASE, HP, KW, ETC. FOR ALL HVAC AND PLUMBING EQUIPMENT PRIOR TO ROUGH-IN.
  - ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER N.E.C. 250.122. #12 MINIMUM GROUND. WIRE NOT SHOWN ON DRAWINGS.
  - THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF KITCHEN EQUIPMENT SUPPLIER.
  - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE PLUG CONFIGURATIONS FOR APPLICABLE KITCHEN EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
  - PROVIDE GFCI PROTECTION FOR ALL KITCHEN RECEPTACLES PER NEC 210.8(B).
  - ALL RECEPTACLES IN PRODUCTION AREA LOW WALL SHALL BE MOUNTED HORIZONTALLY AT +6" BELOW LOW WALL CAP U.N.O.

DATA ROUGHS ARE BY GC AND DATA CABLING BY DOMINO'S VENDOR

- ### KEYED NOTES
- PROVIDE A FIRE-TREATED 4"x4"x3/4" PLYWOOD WITH #6 CU. GND. FOR TELEPHONE/COMMUNICATIONS MOUNTING BOARD "T.M.B." TO COMPLY WITH NEC 800.100(B). COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. PROVIDE 3/4" C. TO MAIN BUILDING TELEPHONE MOUNTING CABINET/BOARD. MOUNT ABOVE SUSPENDED CEILING WHERE SHOWN IN ACCESSIBLE CEILING SPACE.
  - RECEPTACLE BEHIND MAKELINE AND PREP COUNTER RECOMMENDED TO BE MOUNTED AS HIGH AS POSSIBLE U.N.O. COORDINATE MOUNTING HEIGHTS & LOCATION WITH OWNER.
  - J-BOX FOR CONNECTION TO WALK-IN COOLER DOOR HEAT TAPE AND LIGHTS. PROVIDE W.P. MANUAL SWITCH AND MAKE CONNECTION TO LIGHTS. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH VENDOR.
  - PROVIDE W.P. JUNCTION BOX FOR CONNECTION TO NEW TENANT SIGNAGE. VERIFY EXACT LOCATION IN FIELD AND WITH OWNER PRIOR TO ANY WORK. VERIFY ELECTRICAL REQUIREMENTS WITH SIGN SUPPLIER. CIRCUIT THRU TIME CLOCK, PROVIDED BY GC.
  - PROVIDE JUNCTION BOX AND 20A RECEPTACLE FOR CONNECTION TO WATER HEATER IGNITER/CONTROLS/RECIRCULATION PUMP, AS APPLICABLE. COORDINATE EXACT LOCATIONS WITH PLUMBING CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH W/H SUPPLIER/INSTALLER.
  - PROVIDE A CEILING MOUNTED RECEPTACLE FOR CONNECTION TO LED MENU BOARD. 800 WATTS MAX (EACH). VERIFY EXACT REQUIREMENTS WITH SUPPLIER AND THE LOCATION IN FIELD.
  - 30A, 120/208V 1PH. RECEPTACLE FOR ELECTRIC STACKED SEPARATE CLOTHES WASHER/DRYER. VERIFY LOCATION, RECEPTACLE CONFIGURATION AND ELECTRICAL REQUIREMENTS WITH THE ARCHITECT AND MANUFACTURER. PROVIDE 3#10, 1#10 GND., IN 3/4"C. TO MEET NEC REQUIREMENTS.
  - PROVIDE JUNCTION BOX FOR CONNECTION TO OVEN CONTROLLER. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF CONTROLS WITH SUPPLIER.
  - PROVIDE A TAMPER RESISTANT COMBINATION 15A, 120V RECEPTACLE AND A USB CHARGER DEVICE TO BE EQUAL TO ARROWHART TR7740W. MOUNT COMBO-OUTLETS HORIZONTALLY AT +38" AFF.
  - SHOW-WINDOW RECEPTACLE. MOUNT FLUSH IN CEILING. PROVIDE 120V 20A SWITCH AT MANAGERS OFFICE FOR SHOW-WINDOW RECEPTACLES CONTROL. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
  - PROVIDE DATA OUTLET AND DUPLEX RECEPTACLE FOR SECURITY EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT AND/OR OWNER PRIOR TO ROUGH-IN. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH INSTALLER OR OWNER.
  - PROVIDE A WP/GFI RECEPTACLE WITHIN 25'-0" OF HVAC EQUIPMENT. MOUNT RECEPTACLE AT +18" ABOVE ROOF/GROUND AS APPROPRIATE TO MEET NEC.
  - CONTRACTOR TO PROVIDE A DUPLEX RECEPTACLE AND DATA OUTLET AS SHOWN MOUNTED ABOVE CEILING.
  - NOT USED.
  - PROVIDE POLE/CEILING MOUNTED RECEPTACLE FOR PIZZA TRACKER OR TV.
  - PROVIDE A 20A, 120V, DUPLEX RECEPTACLE IN CEILING FOR MAGNETIC CAR-TOPPERS ABV. VERIFY LOCATION AND ADDITIONAL REQUIREMENTS WITH OWNER.
  - NOT USED.
  - SMOKE DETECTOR MOUNT IN DUCT PER MECHANICAL CODE REQUIREMENTS. CONNECTIONS CALLED OUT ON MECHANICAL PLANS.
  - PROVIDE USB/DUPLEX RECEPTACLE, COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN.
  - PROVIDE JUNCTION BOX AND 1-1/4" E.C. (RECOMMENDED) WITH PULLSTRING FOR MONITOR CABLING BY OTHERS. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH SUPPLIER OR OWNER.
  - CONDUIT UNDER GROUND.
  - RUN CONDUIT THRU SHORT WALL TO FULL WALL.

LOW VOLTAGE SYSTEM NOTE:  
ELECTRICAL CONTRACTOR SHALL PROVIDE A TELEPHONE MOUNTING BOARD (TMB), AS NOTED ON DRAWINGS AND 1-1/4" CONDUIT, WITH PULLWIRE, TMB, IN MANAGER OFFICE, AT ALL POINT OF SALE (POS) LOCATIONS, DRIVERS STATIONS AND OTHER LOCATIONS AS DIRECTED BY GENERAL CONTRACTOR (GC) AND/OR LOW VOLTAGE CONTRACTOR (LVC) FOR LOW VOLTAGE WIRING SYSTEM. ELECTRICAL CONTRACTOR SHALL MEET WITH GC AND LVC AND COORDINATE ALL REQUIREMENTS AND LOCATIONS FOR LOW VOLTAGE SYSTEM ROUGH-IN, INCLUDING TMB, CONDUITS AND J-BOXES FOR WIRING AND DEVICES PRIOR TO BEGINNING INSTALLATION.

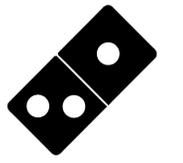
NOTE:  
CONTRACTOR SHALL NOT INSTALL CONDUIT OR J-BOXES IN FIRE-RATED WALLS UNLESS REQUIRED. IF REQUIRED ALL PENETRATIONS IN FIRE-RATED PARTITIONS BETWEEN TENANT SPACES SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 714 OF IBCB. DESIGN INFORMATION FOR APPROVED FIRE STOPPING SYSTEMS SHALL BE PROVIDED ON CONSTRUCTION DRAWINGS OR PROVIDED IN ADDENDUM TO SUCH DRAWINGS.



**ELECTRICAL POWER PLAN**  
SCALE: 1/4"=1'-0"



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Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64138

ISSUED FOR PERMIT:  
04.22.2021

REV.	DATE	DESCRIPTION

SHEET NAME:  
MECHANICAL  
SCHEDULES,  
CALCULATIONS  
AND LEGEND

SHEET NUMBER:  
**M1.0**

### SPLIT SYSTEM HVAC EQUIPMENT SCHEDULE

DESIGNATION	MANUFACTURER	TONNAGE	SEER	SYSTEM TYPE	AIR CAPACITIES	BLOWER AIR FLOW (CFM)	O.A. AIRFLOW OPERATING (CFM)	MIN. O.A. AIRFLOW (CFM)	ESP. (IN.WC)	O.A. TEMP. (DB)	E.A.T. (F/DB)	E.A.T. (F/DB)	TOTAL COOL. CAP. (MBH)	SEV. COOL. CAP. (MBH)	LAT. COOL. CAP. (MBH)	CONDENSER SECTION	CONDENSER MODEL NUMBER	CONDENSER (HP)	CONDENSER FAN (AMPS)	COMPRESSOR (AMPS)	NCA (AMPS)	MOPT. W/AM (AMPS)	CONDENSER ELECTRICAL SERVICE	CONDENSER WEIGHT (LBS)	AIR HANDLER SECTION	MODEL NUMBER	AHU FAN FLA (AMPS)	AHU FAN (HP)	AHU WEIGHT (LBS)	FILTERS	HEAT/SOURCE	HEATER EFFICIENCY	AIR HANDLING UNIT ELECTRICAL SERVICE	ACCESSORIES
AHU-1 (E) CU-1 (E)	CARRIER	3.0	-	HEAT PUMP		1200	305	75	0.8	100	82.0	67.0	-	-	-	CONDENSER SECTION	38YCC036	1/4	-	11.3-78	15.5	20	208/3/60	-	AIR HANDLER SECTION	FA4ANF036	2.4	3/8	-	2" THICK MERV 8	36MBH/HEAT PUMP	-	208/1/60	-
AHU-2,3 CU-2,3	RHEEM	3.0	14.0	ELECTRIC / GAS		1200	305	75	0.8	100	82.0	67.0	36.0	27.0	9.0	CONDENSER SECTION	RA1436A	-	-	14.1	19	30	208/1/60	262	AIR HANDLER SECTION	R92PA060/RCF36	4.6	3/4	159	2" THICK MERV 8	60MBH/N.GAS	92%	120/1/60	NOTES 1,2&3

NOTES:  
1. UPFLOW FURNACE CONFIGURATION, EXTERNAL BOTTOM FILTER RACK  
2. SINGLE STAGE COOLING, CRANKCASE HEATER, LOW AMBIENT CONTROL, HIGH & LOW PRESSURE CONTROL, COMPRESSOR TIME DELAY, HARD START KIT AND 2% PROGRAMMABLE T'STAT. F&I ACR REFRIGERANT PIPING. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET THE ACTUAL INSTALLATION CONDITIONS.  
3. F&I 3 POSITION MOTORIZED DAMPERS ON O.A. INTAKE DUCT.

#### HVAC ITEMS LEGEND

SYMBOL	DESCRIPTION
	DUCT (SIZE IS CLEAR INSIDE DIMENSION)
	RETURN DUCT (SIZE IS CLEAR INSIDE DIMENSION)
	SQUARE ELBOW WITH TURNING VANES
	AIR EXTRACTOR W/ VOLUME DAMPER (V.D.)
	DUCT TRANSITION
	INTERNALLY LINED DUCT
	HIDDEN DUCT
	RETURN AIR GRILLE
	CEILING DIFFUSER (4-W THROW UNLESS DIRECTION ARROWS SHOWN)
	FLEXIBLE DUCT WORK
	DOOR UNDERCUT
	SUPPLY REGISTER
	WALL CAP
	EXHAUST FAN
	FIRE DAMPER
	DUCT SMOKE DETECTOR
	MANUAL VOLUME DAMPER (MVD)
	MOTORIZED DAMPER
	HUMIDITY SENSOR
	THERMOSTAT
	TEMPERATURE SENSOR
	AIR FLOW DIRECTION
	SUPPLY AIR DUCT UP / DOWN
	RETURN AIR DUCT UP / DOWN
	EXHAUST AIR DUCT UP / DOWN

SELECTED EQUIPMENT IN THESE DRAWINGS CAN BE SUBSTITUTED WITH EQUIPMENT OF EQUAL PERFORMANCE FROM ANOTHER MANUFACTURER THAT IS PREFERRED BY OWNER/MECHANICAL CONTRACTOR.

#### ABBREVIATIONS

ABBREVI.	DESCRIPTION
A/C	ABOVE CEILING
A/G	ABOVE GRADE
ACD	CONDENSATE DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
B/F	BELOW FLOOR
B/G	BELOW GRADE
BHP	BRAKE HORSE POWER
CFM	CUBIC FEET / MINUTE
CONN	CONNECT/CONNECTION
CU	CUBIC
CW	DOMESTIC COLD WATER
EA	EXHAUST AIR
EXH	EXHAUST
F&I	FURNISH AND INSTALL
FF	FINISHED FLOOR
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
IN	INCHES
OA	OUTSIDE AIR
POC	POINT OF CONNECTION
RA	RETURN AIR
RPM	REVOLUTIONS/MINUTE
SA	SUPPLY AIR
SQ	SQUARE
T'STAT	THERMOSTAT
UC	UNDERCUT DOOR
UON	UNLESS OTHERWISE NOTED
WG	WATER GAUGE

#### AIR DISTRIBUTION DEVICES

DESIGNATION	"SD-1"	"SD-3"	-	"RG-1"	"RG-2"
DESCRIPTION	PERFORATED CEILING DIFFUSER	LOUVER CEILING DIFFUSER	-	PERFORATED CEILING INLET	LOUVERED GRILLE
APPLICATION	SUPPLY	SUPPLY	-	RETURN / EXHAUST	RETURN
DESIGN MFG.	TITUS	TITUS	-	TITUS	TITUS
MODEL NO.	PAS-AA	TMS-AA	-	PAR-AA	350FL
ACCESSORIES	OB	OB	-	-	-
NOTES	NOTES 3,6&7	NOTES 1&3	-	NOTES 2,3,5&8	24X12

NOTES:  
1. ADJUSTABLE CORE DIFFUSER WITH ROUND NECK.  
2. BORDER FOR A 24X24 LAY-IN CEILING GRID.  
3. F&I WITH R-6 MOLDED INSULATION BLANKET.  
4. DOUBLE DEFLECTION GRILLE, DUCT MOUNTED (NO CEILING).  
5. RADIUS END CAPS TO MATCH DUCT SIZE. MOUNT GRILLE AT 45° ANGLE BELOW HORIZONTAL. ADJUST BLADES FOR PROPER AIR DISTRIBUTION.  
6. PERFORATED FACE RETURN/EXHAUST INLET. ROUND NECK W/BORDER FOR 12X12, 24X12, 16X16, 20X20 OR 24X24 LAY-IN CEILING GRID. SELECT BORDER SIZE FOR AVAILABLE SPACE IN CEILING GRID.  
7. PERFORATED FACE DIFFUSER, ADJUSTABLE DISCHARGE PATTERN. ROUND NECK W/BORDER FOR 12X12, 24X12, 16X16, 20X20 OR 24X24 LAY-IN CEILING GRID. SELECTED BORDER SIZE FOR AVAILABLE SPACE IN CEILING GRID. UNLESS OTHERWISE INDICATED BY THROW DIRECTION ARROWS, UNIT TO BE 4-WAY DISTRIBUTION PATTERN.  
8. W/TYPE 3 FRAME BORDER FOR 24X24 CEILING GRID.  
9. F&I W/OPOSED BLADE DAMPER.

#### VENTILATION FAN SCHEDULE

DESIGNATION	EFH-1	EF-1	-	-
APPLICATION	KITCHEN FAN EXHAUST	RESTROOM EXHAUST FAN	-	-
MANUFACTURER	ACME	GREENHECK	-	-
MODEL	PDU135RG	SP-B90	-	-
AIR FLOW (CFM)	830	75	-	-
FAN SPEED (RPM)	-	700	-	-
EXT. STATIC PRESSURE	1"	0.125"	-	-
MOTOR (HP OR WATTS)	1/2	21.1W	-	-
ELECTRICAL	208/3/60	120/1/60	-	-
WEIGHT	130	35	-	-
COMMENTS	NOTES 1,2,3,4,6,7,8	NOTE 5	-	-

NOTES:  
1. F&I 20" HINGED CURB. UNIT TO HAVE GRAVITY BACKDRAFT DAMPER, GALV. INSECT SCREEN ON DISCHARGE SIDE OF DAMPER AND VENTILATOR INLET TO BE FLANGED FOR DUCT CONN.  
2. INTERLOCK AHU-1, 2 & 3 AND EFH-1 FOR SYNCHRONIZED OPERATION.  
3. CONTROL TO CLOSE DAMPERS WHEN UNIT IS OFF AND OPEN WHEN THE UNIT RUNS.  
4. DAMPER SHALL BE NORMALLY CLOSED WITH 24V ACTUATOR SUITABLE FOR INTERCONNECTION WITH AC CONTROL WIRING.  
5. F&I W/MFR SUPPLIED SPEED CONTROL TO BALANCE FAN.  
6. SPEED SWITCH TO BE IN SECURED PANEL ADJACENT TO FAN ABOVE CEILING. FANS TO BE CONTROLLED BY OCCUPANCY SENSORS COMBINED W/5 MIN (ADJ) TIME DELAY TO SHUT OFF FAN.  
7. F&I MOTORIZED DAMPER ON OUTSIDE AIR & MAKE-UP AIR INTAKE DUCTS.  
8. VFD DRIVE.

#### TYPE II KITCHEN HOOD SCHEDULE

DESIGNATION	MANUFACTURER	MODEL	SUPPLY (CFM)	EXHAUST (CFM)	EXHAUST DUCT CONN. DIA. (IN)	EXHAUST DUCT CONN. DEPTH (IN)	HOOD PRESS. (IN. WC.)	VELOCITY AT DUCT (FT/MIN)	WEIGHT (LBS)
KH-1	AVI	3255	-	-	830	12	1"	830	750

NOTES:  
1. REFER TO HOOD MANUFACTURER'S CUT-SHEETS FOR REQUIRED FOOD INFORMATION. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CURRENT CODE HAVING JURISDICTION.  
2. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION.  
3. SUPPORT: HOOD SHALL BE SECURED IN PLACE BY SUPPORTS. ALL HOOD SUPPORTS SHALL BE ADEQUATE FOR THE APPLIED LOAD OF THE HOOD, THE UNSUPPORTED DUCTWORK AND THE POSSIBLE WEIGHT OF PERSONNEL WORKING IN OR ON THE HOOD.  
4. CLEARANCES: MAINTAIN CLEARANCES AS PER HOOD MANUFACTURER'S RECOMMENDATIONS AND AS PER CODE STANDARDS.

#### FIELD VERIFICATION NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. FIELD VERIFICATION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - EXACT PLACEMENT, DIMENSIONS, CONDITIONS, CAPACITIES MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIP. WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
  - SIZE, CONDITION AND LOCATIONS OF ALL EXISTING DUCTWORK.
  - SIZE, CONDITIONS AND LOCATIONS OF ALL EXISTING AIR DISTRIBUTION DEVICES, GRILLES, REGISTERS, DIFFUSERS, DAMPERS, ETC.
  - CONDITIONS AND LOCATION OF ALL EXISTING ENVIRONMENTAL AND AUTOMATED CONTROLS.
- ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, THERMOSTATS AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ITEMS PRIOR TO SUBMITTAL OF BID AND INCLUDE IN THE BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES OR MODIFICATIONS TO THE CONTRACTOR'S BID OR BID CONDITIONS, DUE TO FAILURE OF ACCURATELY VERIFYING EXISTING CONDITIONS, AFTER THE PROJECT HAS BEEN AWARDED.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE ARCHITECT FOR DIRECTION AS SOON AS THEY ARE DISCOVERED.

#### REFRIGERANT PIPING NOTES:

- ONLY ACR RATED COPPER PIPE TO BE USED.
- IF SHUT-OFF VALVES (SOV) ARE NOT INSTALLED ON THE EQUIPMENT BY THE MANUFACTURER, INSTALL SOV ON EACH EQUIPMENT CONNECTION.
- INSTALL ADDITIONAL TX VALVE AS RECOMMENDED BY THE MANUFACTURER FOR THE LENGTH OF PIPING RUN.
- USE LONG RADIUS ELBOWS AND FITTINGS.
- ALL AHU UNIT TO HAVE AN INVERTED TRAP ON SUCTION LINE.
- F&I FILTER/DRYER NEXT TO THE CU ON THE LIQUID LINE. THE FILTER/DRYER TO BE FOLLOWED BY A SIGHTGLASS WITH MOISTURE INDICATOR. F&I SOV IMMEDIATELY DOWNSTREAM OF EACH SIGHTGLASS.
- ALL SUCTION AND HOT GAS BY-PASS LINES TO BE INSULATED.
- F&I CONDENSING UNITS WITH LOW AMBIENT TEMPERATURE PROTECTION SUCH AS CONDENSER FLOOD BACK, CONDENSER FAN SPEED CONTROL OR CONDENSER FAN CYCLING.
- FULLY CHARGE LINES AT THE END OF INSTALLATION, PRIOR TO SYSTEM START-UP.
- ADD ADDITIONAL OIL TO EACH SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM'S PIPE SIZES AND LENGTH.
- PIPE MINIMUM BENDING RADIUS PER MANUFACTURER'S RECOMMENDATIONS, BUT IN NO CASE LESS THAN 4".
- ADD ADDITIONAL REFRIGERANT AS RECOMMENDED BY THE MANUFACTURER OF EACH UNIT.

#### REFRIGERATION EQUIPMENT SCHEDULE

DESIGNATION	WICF-1	WICC-1
APPLICATION	WALK-IN COOLER FAN COIL	WALK-IN COOLER CONDENSING UNIT
MANUFACTURER	KOLPAK	KOLPAK
MODEL	FAN COIL FOR A 10'X14' WALK-IN	CONDENSING UNIT FOR A 10'X14' WALK-IN
REFRIGERANT	---	404A
COMMENTS	NOTE 1	NOTE 2

NOTE:  
1. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS  
2. F&I W/ACR REFRIGERANT PIPING, ALL VALVES, APPURTENANCES AND EQUIPMENT REQUIRED FOR COMPLETE SYSTEM. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET ACTUAL INSTALLATION CONDITIONS.

#### RESTAURANT AIR BALANCING SCHEDULE

EXHAUST UNIT	EXHAUST AIR FLOW (CFM)	PROVIDED BY	O.A. AIR FLOW (CFM)
EFH-1	830	AHU-1,2&3	AHU-1: 305 AHU-2: 305 AHU-3: 305
*EF-1	85	-	-
EXFILTRATION	-	-	-
TOTAL EXHAUST	915	TOTAL O.A.	915

\*FANS TO BE OPERATING ON AN INTERMITTENT BASIS

#### KITCHEN EXH AIR CALCULATIONS

AREA	SQFT	CFM/SQFT	TOTAL CFM	PROVIDED BY
KITCHEN	472	0.7	330.4	EFH-1

#### O.A. CALCULATIONS

AREA	OCCUPANCY	CFM/PERSON	SUBTOTAL	SQUARE FEET	CFM/SQFT	SUBTOTAL	TOTAL CFM	PROVIDED BY
LOBBY	2	7.5	15.0	106	0.18	19.1	34.1	AHU-1,2&3
STORAGE	2	0.0	0.0	591	0.12	70.9	70.9	AHU-1,2&3
PRODUCTION	3	7.5	22.5	472	0.18	85.0	107.5	AHU-1,2&3
TOTAL							212	

#### GENERAL NOTES:

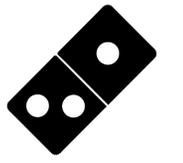
- DOOR UNDERCUTS TO PROVIDE A 0.75" CLEAR OPENING.
- MOUNT THERMOSTATS 48" ABOVE FINISH FLOOR TO CENTER.
- DUCTWORK AND EQUIP. SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENT. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHT OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS BEFORE EQUIPMENT CAN BE INSTALLED AT JOB SITE.
- SPACE ALLOCATED FOR MECHANICAL AND OTHER WORK ABOVE THE SUSPENDED CEILING IS CRITICAL. LIGHT FIXTURES AND AIR DIFFUSERS HAVE BEEN LOCATED TO ACHIEVE A DEFINITE ARCHITECTURAL EFFECT AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ARCHITECT. BECOME FAMILIAR WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS. HANG DUCTWORK AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE, UNLESS INDICATED OTHERWISE.
- COORDINATE THE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRE, AIR DUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS: THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E 814 OR NFPA 251 FOR FIRE RATING.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPING LOCATIONS IN FIELD AND INCLUDE IN BID EXTENDING TO EXISTING AS REQUIRED. CONTRACTOR MAY REUSE ALL EXISTING DUCT IF CLEANED AND COMPLY WITH SPECS.
- CONTRACTOR SHALL BALANCE ALL SYSTEMS. F&I 3RD PARTY OR LICENSED HVAC CONTRACTOR INSPECTION AND FURNISH COPY OF THE REPORT TO THE CITY INSPECTOR.
- PLANS SHALL CONFORM TO THE THE CURRENT CODE AND LOCAL AMENDMENTS.
- ALL DIFFUSERS AND GRILLES ARE LESS THAN 20 LBS, CONTRACTOR SHALL POSITIVELY ATTACH TO CEILING MAIN RUNNERS.
- VENTS SHALL BE TERMINATED A MIN OF 1'-0" ABOVE ROOF AND 2'-0" ABOVE 8"-0" AWAY FROM PARAPETS OR WALLS.
- THERMOSTATS ARE LOW VOLTAGE PROGRAMMABLE THERMOSTATS AND ARE TO BE LOCATED AS SHOWN.
- IF THERE IS NO PARAPET, THE PARAPET IS LESS THAN 42" ABOVE ROOF SURFACE OR A DIFFERENCE IN WALKING SURFACE ELEVATION OF 3'-0", THE UNITS PLACED WITHIN 10'-0" OF EDGE OF ROOF, SHALL HAVE RAILINGS OR TIE-OFFS MEETING OSHA REQUIREMENTS.
- RUN-OUTS TO DUCTS TO AIR DISTRIBUTION DEVICES SHALL BE SIZED THE SAME AS THE CONNECTION TO THE AIR DISTRIBUTION DEVICE, UNLESS OTHERWISE NOTED.
- INTERIOR SUPPLY AND RETURN TRUNK DUCTS TO BE FIBERBOARD OR SHEET METAL. (TYP)
- F&I EQUIPMENT REQUIRING AN EXTERNAL SOURCE OF ELECTRICAL POWER FOR ITS OPERATION SHALL HAVE THE FOLLOWING:
  - READILY ACCESSIBLE DISCONNECTING MEANS WITHIN SIGHT OF THE EQUIPMENT.
  - 120 VAC GROUNDING-TYPE RECEPTACLE OUTLET ON THE ROOF ADJACENT TO WITHIN 25 FEET OF EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS NEC 210.63.
- WHERE MORE THAN ONE HVAC UNIT IS INSTALLED ON THE ROOF OF, OR WITHIN A BUILDING, IT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT.
- FURNISH O&M MANUALS FOR HVAC SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- COMMISSIONING PLAN TO BE DEVELOPED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- HVAC EQUIPMENT TO BE TESTED TO ENSURE PROPER OPERATION.
- PRELIMINARY COMMISSIONING REPORT TO BE COMPLETED AND CERTIFIED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- AS-BUILT HVAC SYSTEMS DRAWINGS TO BE SUBMITTED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- PROVIDE AN AIR BALANCE REPORT FOR SYSTEMS TO THE OWNER.
- FINAL COMMISSIONING REPORT DUE TO BUILDING OWNER WITHIN 90 DAYS OF RECEIPT OF OCCUPANCY.
- HVAC SYSTEM CONTROLS TO BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT AND OPERATION.
- FLASH AND COUNTERFLASH ALL PIPES, CONDUITS, DUCTS AND FLUES THROUGH ROOF AND / OR EXTERIOR WALLS. MAKE PENETRATIONS WATERTIGHT.
- MAKE-UP AIR FOR EFH-1 TO BE SUPPLIED BY RTUS UON. IF AN OVEN HOOD MAKE, MODEL OR OVEN CONFIGURATION IS CHANGED FROM THAT WHICH IS SHOWN ON THE MECHANICAL & ARCHITECTURAL DRAWINGS, THE AIR BALANCE SCHEDULE IS VOIDED AND SUFFICIENT AIR BALANCE IS NOT GUARANTEED. IN THE CASE OF A CHANGE IN FIELD, CONTRACTOR TO VERIFY MAKE-UP AIR REQUIREMENTS WILL BE MET.

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RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
07/16/2021



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**Project No: 5401 / Store #1684**  
Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133

ISSUED FOR PERMIT:  
04.22.2021

REV: DATE:	DESCRIPTION:
△ 07.15.21	CITY COMMENTS

SHEET NAME:

MECHANICAL PLAN

SHEET NUMBER:  
**M2.0**

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PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR TO COORDINATE THE WORK REPRESENTED IN THIS SET OF DOCUMENTS. CONTRACTOR TO FIELD VERIFY CONDITION, LOCATION, SIZE, CAPACITY AND FLOW DIRECTION OF EXISTING SYSTEMS AND COMPONENTS BEING INCORPORATED INTO THE SYSTEMS AS INDICATED IN THESE DOCUMENTS.

UNLESS OTHERWISE NOTED, ALL EQUIPMENT, MATERIAL AND SYSTEM COMPONENTS CONTAINED OR REFERRED TO BY THESE DOCUMENTS ARE TO BE CONSIDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

SEE SHEETS M1.0, P1.0, P4.0 AND ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS.

UNLESS OTHERWISE NOTED, FLASH AND COUNTER FLASH ALL DUCTS, EQUIPMENT CURBS, ETC. PENETRATING THE ROOF/EXTERIOR WALLS, MAKE WATERTIGHT.

▷ DOES NOT DENOTE AIRFLOW DIRECTION.  
DENOTES DIRECTION IN WHICH DUCT CROSS SECTIONAL AREA DECREASES.

UNLESS OTHERWISE NOTED, DUCTS TO BE SIZED THE SAME AS THE AIR DISTRIBUTION DEVICE CONNECTED TO THEM.

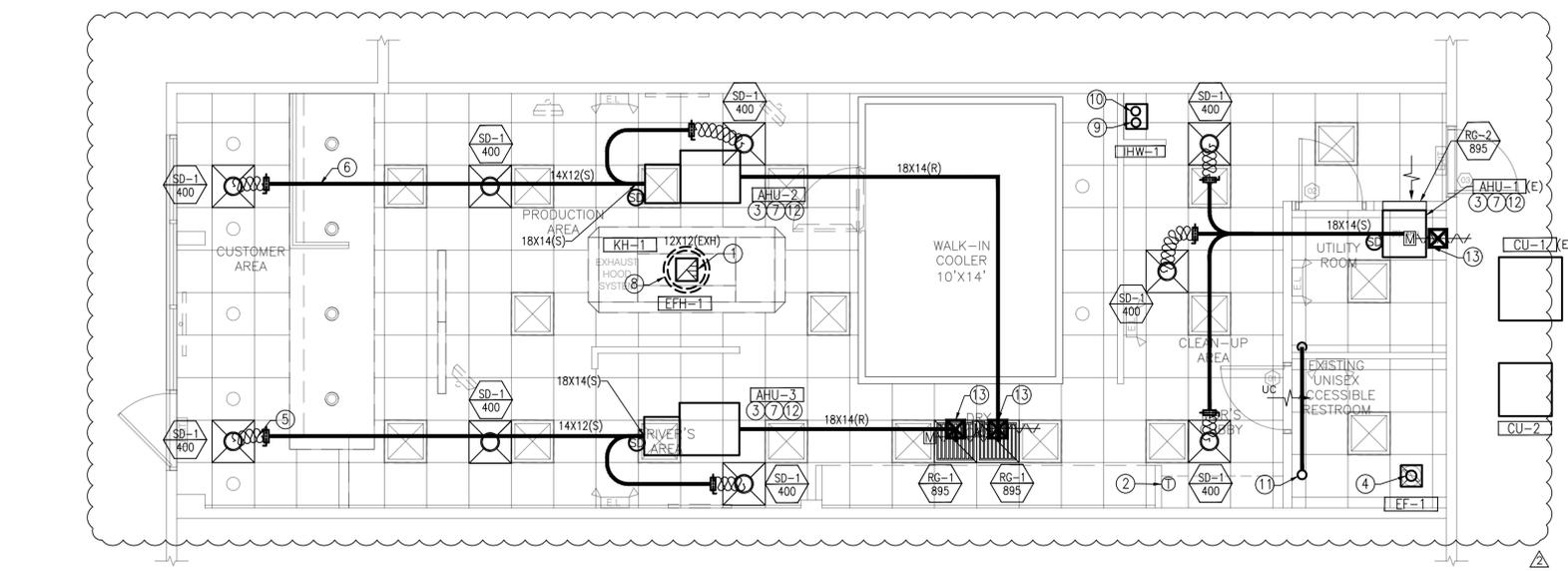
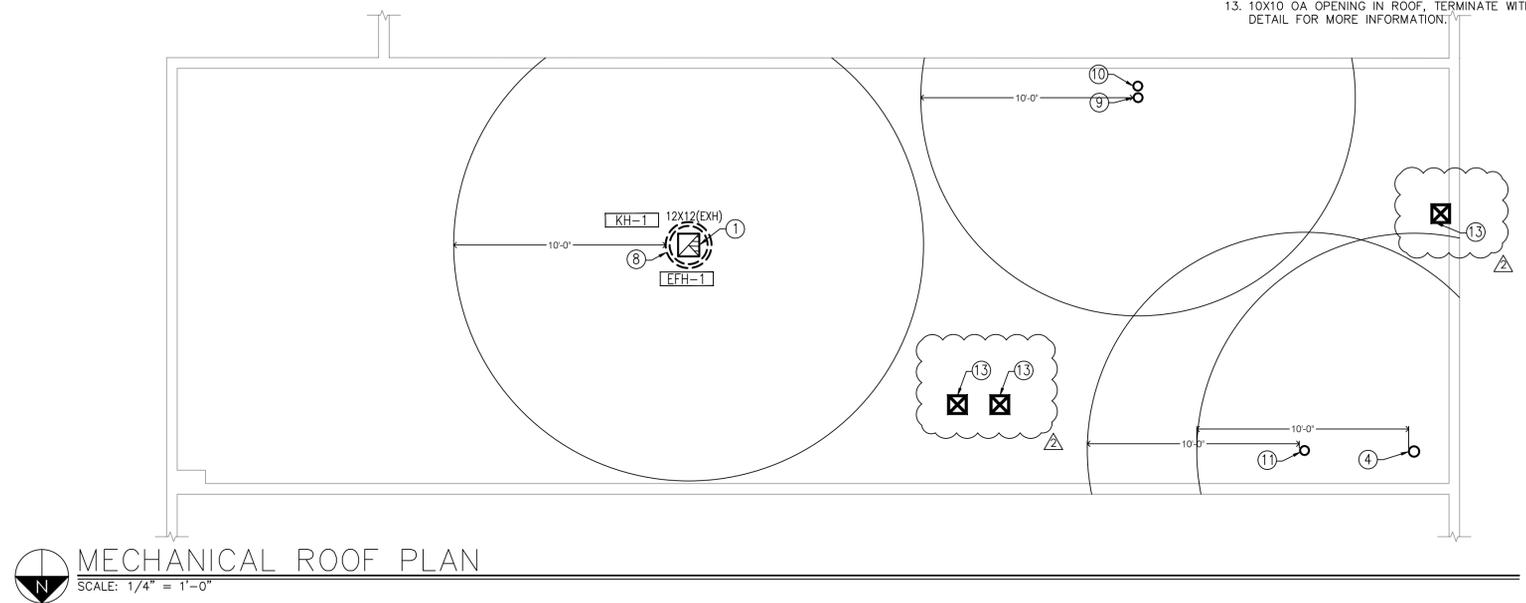
DUCT RUN-OUT SCHEDULE	
DUCT CFM	DUCT SIZE
0-150	6" ROUND
150-270	8" ROUND
270-330	10" ROUND
330-470	12" ROUND
470-530	14" ROUND
530-690	16" ROUND

NOTES:  
1. AIR DEVICE NECK SIZE SHALL BE THE SAME AS RUNOUT SIZE.  
2. RECTANGULAR DUCT SIZES OF EQUIVALENT FREE AREA MAY BE SUBSTITUTED FOR ROUND DUCT.  
3. RUNOUTS MAY BE RIGID OR FLEX DUCT PER SPECIFICATIONS.

RETURN AIR DEVICE NECK SIZE	
NECK SIZE	CFM
6X6	0-100
8X8	100-200
10X10	200-400
12X12	400-650
15X15	650-1050
18X18	1050-1350
22X22	1350-2000

**HVAC KEYED NOTES:**

- DUCTWRAP TO BE F&I FOR DUCTWORK CONNECTED TO EXTERIOR EXHAUST FAN AS PER ASTM-E2336. RISER TO REDUCE AT FAN CONNECTION AS REQUIRED TO FIT DUCTWRAP. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- T'STAT FOR UNITS AHU-1, 2 & 3 WITH 24 HR, 7 DAYS PROGRAMMABLE THERMOSTATS AND 5 DEGREE DEADBAND TO BE INSTALLED AT 48" ABOVE THE FLOOR.
- TEMPERATURE SENSORS TO BE INSTALLED IN COMBINED RETURN/OUTSIDE AIR INTAKE.
- 6"Ø EXHAUST DUCT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- BRANCHES TO BE FLEX DUCT OR RIGID DUCT (TYP). FLEX DUCT RUNS NOT TO EXCEED 5'.
- INTERIOR SUPPLY AND RETURN TRUNK DUCTS TO BE FIBERBOARD OR SHEET METAL (TYP).
- DUCT RISER TO BE FULL SIZE OF UNIT'S DUCT CONNECTION.
- OUTLINE OF EQUIPMENT ON ROOF.
- RUN FLUE VENT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. MANUFACTURER'S CONCENTRIC ROOF JACK FOR FLUE VENT/COMBUSTION AIR IS ACCEPTABLE. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- RUN COMBUSTION AIR VENT UP THRU ROOF. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZE.
- RUN DRYER VENT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZE.
- F&I SMOKE DETECTOR INDICATOR LIGHT ON UNIT. LABEL INDICATOR LIGHT. (TYP.)
- 10X10 OA OPENING IN ROOF, TERMINATE WITH GOOSENECK. SEE OA INTAKE DETAIL FOR MORE INFORMATION.

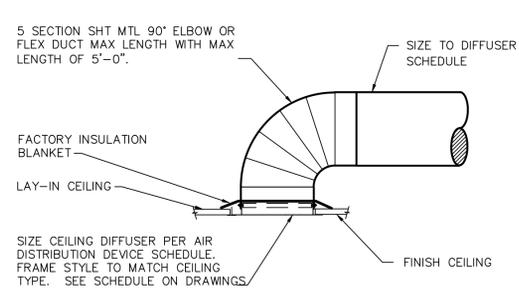


**MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"

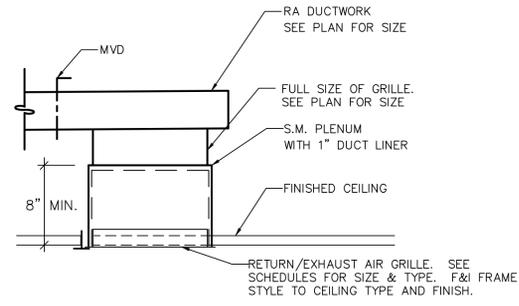
**MECHANICAL ROOF PLAN**  
SCALE: 1/4" = 1'-0"

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THE DETAILS ON THIS SHEET ARE  
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 MAY BE RELEVANT TO THIS PROJECT.

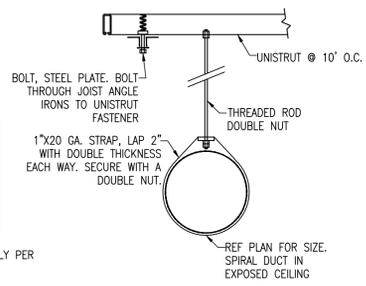


**DIFFUSER INSTALLATION DETAIL**  
 NO SCALE

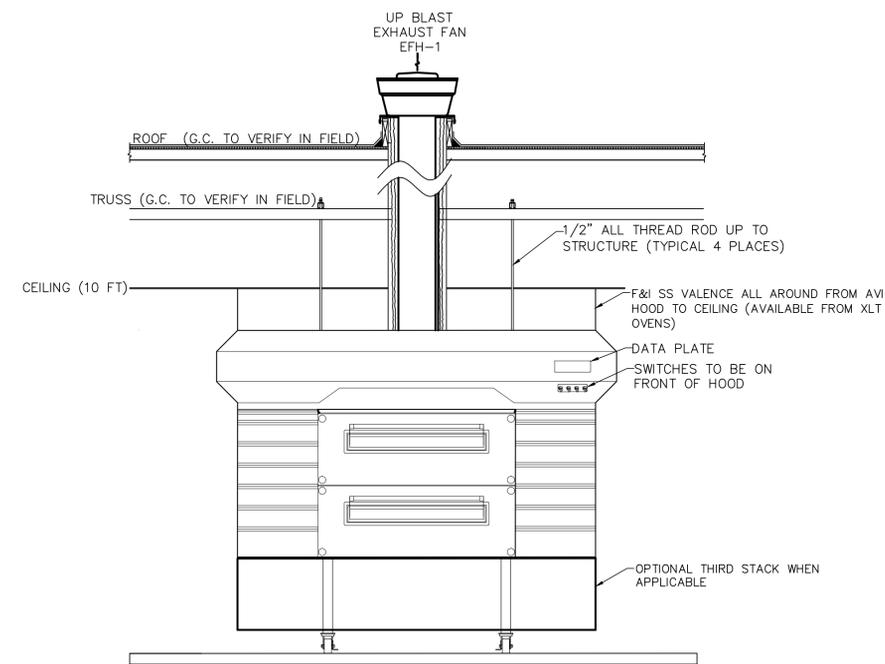
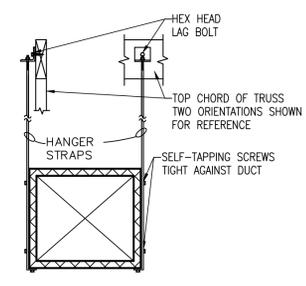


**RETURN/EXHAUST AIR GRILLE DETAIL**  
 NO SCALE

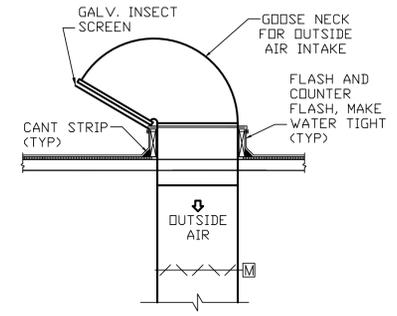
DUCT SIZE (SF)	HANGER SIZE	MAX SPACING
>2	1" X 1/8"	8'-0"
2-4	1" X 1/8"	8'-0"
4-10	1" X 1/8"	6'-0"
>10	1" X 1/8"	4'-0"



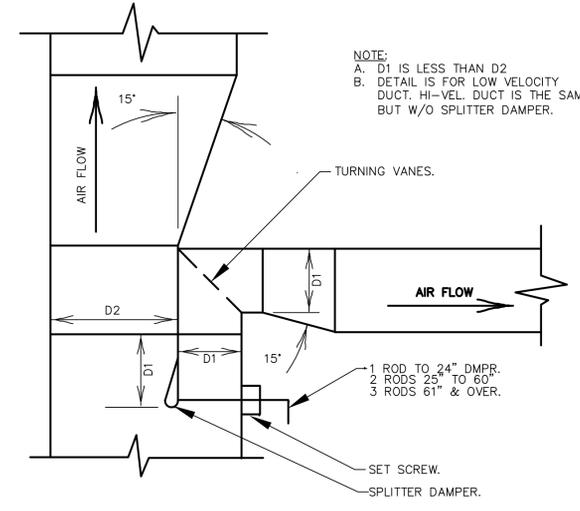
**DUCT HANGER DETAIL**  
 NO SCALE



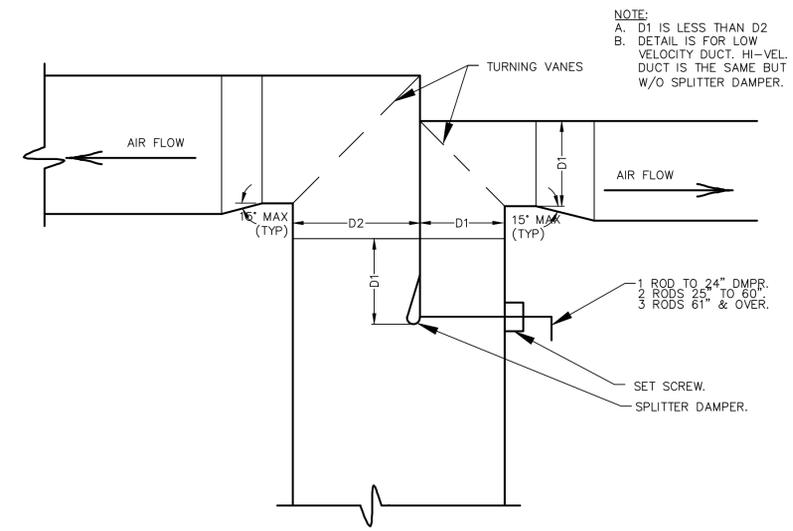
**HOOD CLEARANCES AND DUCTS DETAIL**  
 NO SCALE  
 NOTE: DETAIL IS DIAGRAMMATIC AND DOES NOT DENOTE THE NUMBER OF OVENS. SEE ARCHITECTURAL PLANS FOR NUMBER OF OVENS.



**AHU O.A. INTAKE DETAIL**  
 NO SCALE



**TYPICAL MAIN DUCT SPLITTER DAMPER TAKE-OFF DETAIL (SIMILAR FOR ROUND DUCTS)**  
 NO SCALE



**TYPICAL DUCT SPLITTER DAMPER DETAIL (SIMILAR FOR ROUND DUCTS)**  
 NO SCALE

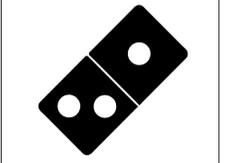
**TYPE II HOOD SEQUENCE OF OPERATIONS**

1. AIR CONDITIONING UNITS (ACU)
  - A. ALL AIR CONDITIONING UNITS, ROOF TOP (RTU), AND SPLIT SYSTEM CONDENSER UNITS (CU) AND AIR HANDLING UNITS (AHU), SHALL BE CONTROLLED BY A PROGRAMMABLE 24/7 SMART THERMOSTAT DEVICE.
    - 1) DEVICE TO HAVE A 100 F (ADJ) DEADBAND, PROGRAMMABLE START AND STOP TIMES, 3-POSITION ON/OFF/AUTO SELECTOR SWITCH AND A 2 HOUR MANUAL OVERRIDE.
2. SUPPLY FANS (RTU & AHU)
  - A. EACH UNIT'S SUPPLY AIR FANS ARE ENERGIZED AND THE OUTSIDE AIR (OA) DAMPERS MODULATE TO POSITION TO ADEQUATELY PRESSURIZE BUILDING.
  - B. UNIT'S TEMPERATURE SENSOR, LOCATED IN THE RETURN AIR (RA) DUCT MONITORS THE MIXED (MA), RA & OA TEMPERATURE. IF THE ROOM TEMPERATURE IS NOT WITHIN 100F DEGREES OF ROOM TEMPERATURE SET POINTS, UNIT WILL GO INTO HEATING OR COOLING MODE TO MEET THE DESIRED TEMPERATURE SET POINTS.
  - C. EACH UNIT'S FAN WILL CONTINUE TO RUN FOR 2 MINUTES (ADJ) AFTER THE HEATING OR COOLING ROOM TEMPERATURE SET POINT IS MET.
  - D. COOLING MODE:
    - 1) COMPRESSOR WILL BE ENERGIZED TO COOL THE AIR TO ROOM AIR TEMPERATURE.
    - 2) COMPRESSOR (S) WILL SHUT OFF WHEN MECHANICAL COOLING IS NO LONGER NEEDED.
  - E. HEATING MODE:
    - 1) HEATING CONTROLS WILL ENERGIZE GAS BURNER IN FIRST STAGE AND IF NECESSARY TO SECOND STAGE HEATING TO BRING AIR TEMPERATURE UP TO THE HEATING ROOM TEMPERATURE SET POINT.
    - 2) IF GAS HEATING IS NO LONGER NECESSARY, GAS BURNERS WILL SHUT OFF.
3. MIXED AIR TEMPERATURE IS WITHIN 10 F DEGREES OF ROOM TEMPERATURE:
  - A. COMPRESSOR IS NOT ENERGIZED
  - B. GAS BURNERS ARE NOT ENERGIZED.
  - C. UNIT OPERATES IN THE ECONOMIZER MODE.
    - 1) ECONOMIZER MODE: WHEN OUTDOOR WEATHER CONDITIONS, AS SENSED BY UNIT MOUNTED CONTROLS, ARE BELOW ITS SETTING, AND FREE COOLING IS AVAILABLE, ECONOMIZER MODE SHALL BE ENABLED AND DAMPERS SHALL POSITION TO ENABLE 100% OA ENTERING THE BUILDING. EA DAMPERS TO MODULATE TO EXHAUST THE OA NOT BEING EXHAUSTED BY THE EXHAUST FANS (EFH-1 & EF-X).
      - 2) WHEN THE OA SET-POINT IS BELOW 55F (ADJ.), THE MECHANICAL COOLING SHALL BE DISABLED. THE ECONOMIZER CONTROL SHALL RESET OA DAMPERS TO THE MINIMUM RUN OA INTAKE POSITION AND ENERGIZE THE MECHANICAL COOLING WHEN THE OA SET POINT IS EXCEEDED.
      - 3) ADDITIONAL HIGH LIMIT SHUT OFF CONTROLS BELOW.
        - a. OA TEMPERATURE > 75F
        - b. OA TEMPERATURE > RA TEMPERATURE
        - c. (OA TEMPERATURE, OA RELATIVE HUMIDITY)>AIR
        - d. OA HUMIDITY > RA HUMIDITY
        - e. OA DEW POINT > 55F
        - f. OA TEMPERATURE > 75F
        - g. NO FIXED ENTHALPY CONTROL.
  - D. EXHAUST FANS
    - A. REST ROOM EXHAUST FANS (EF) ARE TO BE STARTED BY AN OCCUPANCY SENSOR. WHEN THE OCCUPANT VACATES THE ROOM, THE FAN WILL REMAIN RUNNING FOR A MINIMUM OF 10 MINUTES (ADJ).
  - E. EXHAUST HOOD EXHAUST FAN (EFH-1)
    - A. GAS OVEN IS MANUALLY STARTED.
    - B. EXHAUST FAN EFH-1 AUTOMATICALLY ENERGIZES AND STARTS RUNNING.
    - C. ONCE EFH-1 IS UP TO SPEED, APPROXIMATELY 5 SECONDS (ADJ), THE SUPPLY AIR UNIT (SAU) INTRODUCING THE LARGEST AMOUNT O OUTSIDE AIR (OA) INTO THE BUILDING STARTS.
      - 1) ROOF TOP UNITS (RTU), AIR HANDLING UNITS (AHU) AND / OR MAKE-UP AIR UNITS (MAU) ARE CONSIDERED AS SUPPLY AIR UNITS (SAU).
      - 2) IF THERE IS A DEDICATED MAKE-UP AIR UNIT PROVIDING OA TO A SELF-COMPENSATING HOODS, THIS UNIT SHALL BE THE FIRST UNIT STARTED.
    - D. AFTER A 5 SECOND (ADJ) INTERVAL, THE SAU BRING IN THE NEXT LARGEST AMOUNT OF OA INTO THE BUILDING STARTS.
    - E. THIS PROCESS CONTINUES UNTIL ALL OF THE SAU'S HAVE BEEN STARTED.
4. WHEN GAS OVEN IS TURNED OFF:
  - A. ANY DEDICATED MAKE-UP AIR UNIT STOPS.
  - B. ON ALL SUPPLY AIR FANS OA DAMPERS CLOSE TO MINIMUM ALLOWED OA POSITION AND THE EA DAMPER IS SET TO ALLOW SLIGHT BUILDING PRESSURIZATION.
5. UNOCCUPIED MODE:
  - A. VENTILATION AND ECONOMIZER DAMPERS BECOME FULLY CLOSED.
  - B. THERMOSTAT SENDS SIGNAL TO UNITS TO OPERATE IN SETBACK MODE UNTIL NEXT OCCUPIED MODE CYCLE PER THERMOSTAT PROGRAMMING.
  - C. DURING HEATING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE ABOVE 55F.
  - D. DURING COOLING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE BELOW 85F.
  - E. UNITS SHALL BE SEQUENCED TO MAINTAIN SPACE TEMPERATURE AS FOLLOWS:
    - 1) THE LARGEST TONNAGE UNIT, OR AS THE SEQUENCE NUMBER IN THE AIR CONDITIONING UNIT SCHEDULE INDICATES, SHALL RUN TO MAINTAIN THE SPACE SETBACK TEMPERATURE.
    - 2) IF THE SPACE TEMPERATURE IS MEASURED AS 30F ABOVE THE COOLING OR 30F BELOW THE HEATING SETBACK TEMPERATURE, OR AS THE SEQUENCE NUMBER IN THE AIR CONDITIONING UNIT SCHEDULE INDICATES, SHALL START TO MAINTAIN THE SPACE SETBACK TEMPERATURE. WHEN THE TEMPERATURE DROPS TO 20F BELOW THE SETBACK TEMPERATURE IN COOLING MODE OR ABOVE SETBACK TEMPERATURE IN HEATING MODE, THE SECOND UNIT SHALL TURN OFF.
6. AIR CONDITIONING UNIT MANUAL OVERRIDE MODE:
  - A. VENTILATION AND ECONOMIZER DAMPERS BECOME POSITIONED AT THE MINIMUM OA SETTING.
  - B. THERMOSTAT SENDS SIGNAL TO UNIT TO OPERATE IN NORMAL MODE.
  - C. MANUAL OVERRIDE TIMER TO BE SET FOR A PERIOD OF 2 HOURS (ADJ.).
7. SMOKE DETECTORS
  - A. IF A FIRE ALARM SYSTEM IS PRESENT IN THE BUILDING, SMOKE DETECTORS TO NOTIFY FIRE ALARM SYSTEM IN THE EVENT OF SMOKE BEING DETECTED.
  - B. NON-EMERGENCY OPERATION:
    - 1) THERMOSTATS, COMPRESSOR AND FANS RUN AS NORMAL.
  - C. SMOKE DETECTED IN SUPPLY OR RETURN:
    - 1) SMOKE DETECTOR GENERATE VISIBLE ALERT SIGNS.
    - 2) SMOKE DETECTOR SENDS SIGNAL TO HVAC SYSTEM TO SHUT OFF.
    - 3) AIR CONDITIONING AND MAKE-UP AIR UNITS TO HAVE FANS AND COMPRESSORS DE-ENERGIZE.

RELEASE FOR  
 CONSTRUCTION  
 AS NOTED ON PLANS REVIEW  
 DEVELOPMENT SERVICES  
 LEE'S SUMMIT, MISSOURI  
 07/16/2021



1001 SE SANDY BLVD., SUITE 100  
 PORTLAND, OR 97214  
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**Project No: 5401 / Store #1684**  
 Domino's Pizza Bakery Store  
 Pizza Theater Tenant Improvement  
 3544 SW Market St., Lee's Summit, MO 64082  
 for DESZ Management LLC dba Domino's  
 3901 Blue Ridge Cutoff  
 Kansas City, MO 64138

ISSUED FOR PERMIT:  
 04.22.2021

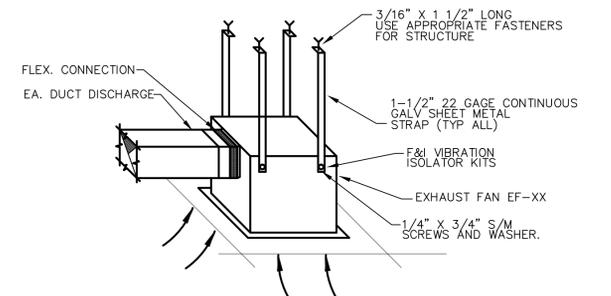
REV:	DATE:	DESCRIPTION:

SHEET NAME:  
 MECHANICAL DETAILS  
 AND  
 SEQUENCE OF  
 OPERATIONS

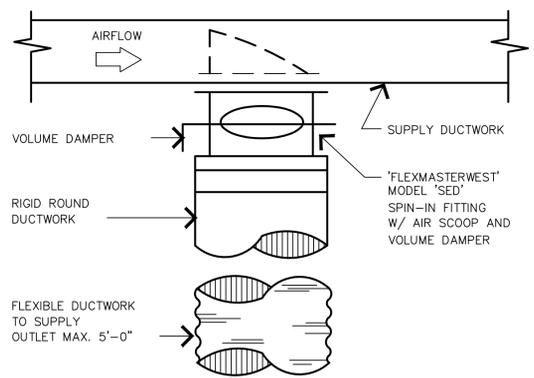
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**M3.0**

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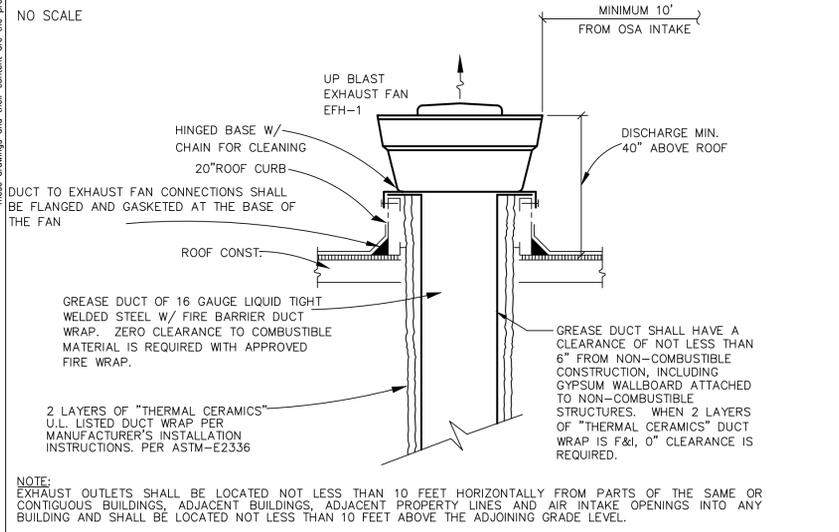
THE DETAILS ON THIS SHEET ARE STANDARD DETAILS. NOT ALL DETAILS MAY BE RELEVANT TO THIS PROJECT.



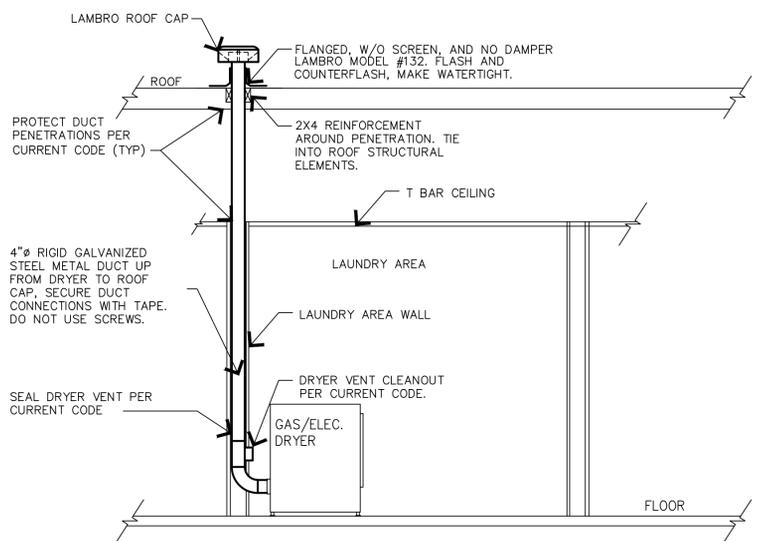
**RESTROOM FAN INSTALLATION DETAIL**  
SCALE: N.T.S.



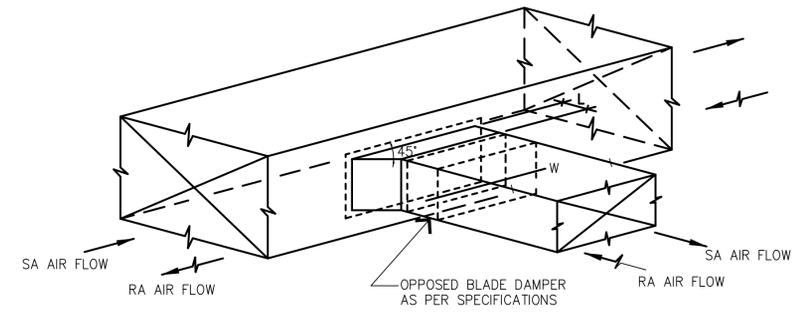
**BRANCH DUCT TAKE-OFF DETAIL**



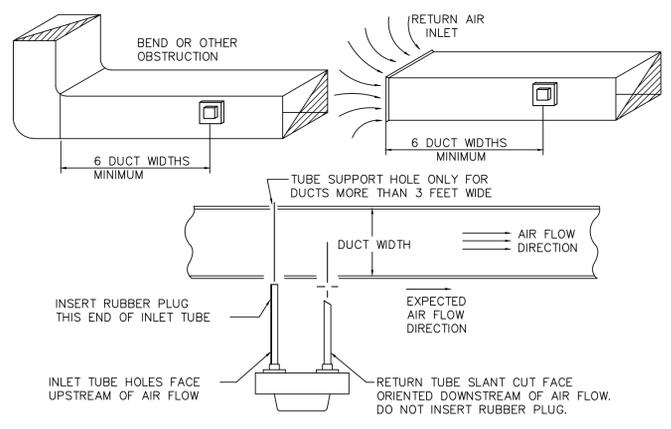
**EXHAUST FAN DETAIL**  
NO SCALE



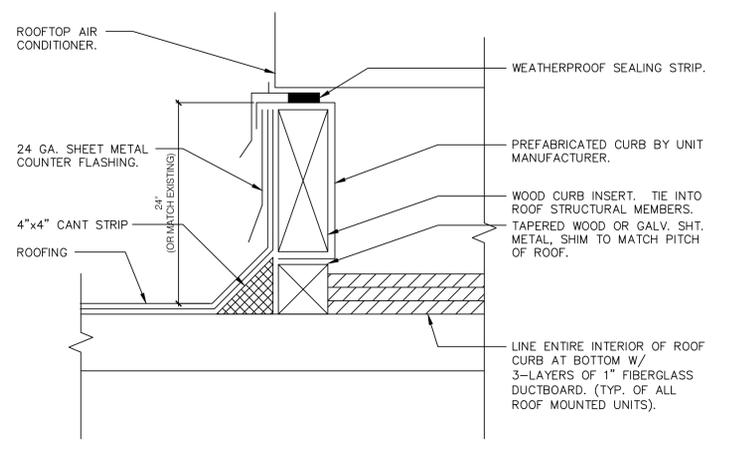
**DRYER VENT DETAIL**  
NO SCALE



**BRANCH DUCT TAKE-OFF & DAMPER DETAIL**  
NO SCALE

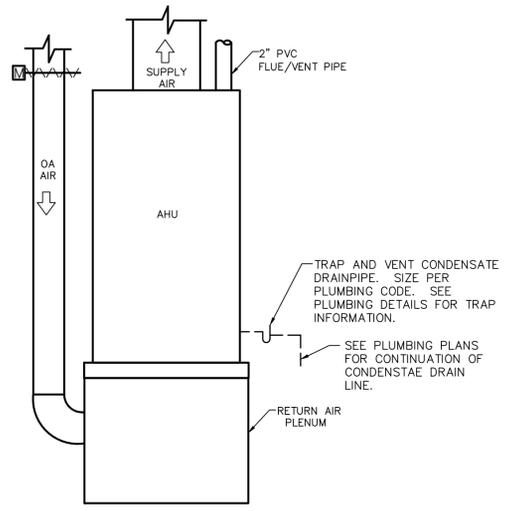


**TYPICAL DUCT DETECTOR INSTALLATION**  
NOT TO SCALE



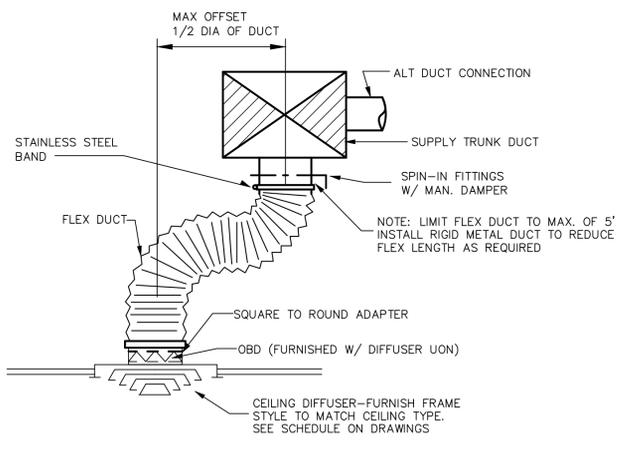
**NOTES:**  
WHERE POSSIBLE ALL ELECTRICAL CONDUIT & DRAIN PIPING SHALL BE ROUTED THROUGH ROOF WITHIN THE CONFINES OF CURB PERIMETER.  
APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOADS AS REQUIRED FOR LOCAL SEISMIC ZONE.

**CURB INSTALLATION DETAIL**  
NOT TO SCALE



**NOTE:**  
SIZE AND LOCATION OF FLUE/VENT PIPE CONNECTION VARIES BY MODEL AND MANUFACTURER. REFER TO MANUFACTURER'S INSTRUCTIONS FOR FLUE AND VENTING REQUIREMENTS.

**AIR HANDLER DETAIL**  
NO SCALE

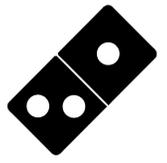


**TYP. DUCT CONNECTION**  
NO SCALE

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/16/2021



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**Project No: 5401 / Store #1684**  
Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133  
816.501.8388

ISSUED FOR PERMIT:  
04.22.2021

REV:	DATE:	DESCRIPTION:

SHEET NAME:

MECHANICAL DETAILS

SHEET NUMBER:  
**M4.0**

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### COMcheck Software Version 4.1.1.0 Mechanical Compliance Certificate

**Project Information**

Energy Code: 2018 IECC  
Project Title: Domino's Pizza  
Location: Lee's Summit, Missouri  
Class: Zone: 4A  
Project Type: Alteration

Contractor: DESZ Management LLC dba  
3544 SW Market St.  
Lee's Summit, MO 64082

Designer/Contractor: DESZ Management LLC dba  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133

**Mechanical Systems List**

Quantity: 2  
System Type & Description: RTU/CRAC (Single Zone)  
Housing: 1 each - Central Fan Coil, Gas, Capacity = 40 tBtu/h  
Cooling: 1 each - Split System, Capacity = 36 tBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: None  
Refrigerant: R410A, Required Efficiency: 13.0% SEER  
Fan System: 1200 CFM - Compliance (Motor nameplate HP method), 0.0 fan efficiency grade

Fans: CMV Supply, Constant Volume, 1200 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade

1: 00A-1: Gas Instantaneous Water Heater, Capacity 0 gallons, Input Rating: 150 tBtu/h, No minimum efficiency requirement listed.

**Mechanical Compliance Statement**

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations identified in the permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name: Title: Signature: Date:

### COMcheck Software Version 4.1.1.0 Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is terminated in a separate table, a reference to that table is provided.

Section & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (M142)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment used. Document where exceptions to the standards are claimed. List applicable engineering standards and standards.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 (M142)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment used. Document where exceptions to the standards are claimed. List applicable engineering standards and standards.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 2 of 10  
COMCHECK.cck

Section & Req. ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.1.2 (F09)	Soil/rock meeting system and freeze protection systems have sensors and controls configured to limit air flow to pavement temperature and outdoor temperature. Furnish connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 3 of 10  
COMCHECK.cck

Section & Req. ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5 (P09)	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.5 (P09)	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6 (P17)	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to +3 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6 (P17)	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to +3 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.7 (P18)	Demand recirculation water systems have controls that start the pump upon receipt of a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 (P18)	Demand recirculation water systems have controls that start the pump upon receipt of a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 4 of 10  
COMCHECK.cck

Section & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.4 (M141)	Thermally reflective panel surfaces of sensible heating panels have insulation >= R-5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.1.3 (M141)	HVAC piping insulation installed in accordance with Table C403.1.3. Insulation exposed to weather is protected from damage and is provided with sheathing from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.1.4 (M142)	Wiring for fans that are not less than 1.75 ft and less than 1.5 ft away or have a minimum motor efficiency of 75 percent. These motors have the means to adjust motor speed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.1.4 (M143)	Each CR cooling system > 45 tBtu/h and chiller water/propagative cooling systems designed to vary the indoor fan airflow as a function of load and capacity, each capable of meeting the minimum airflow rate required in this section.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.1.5 (M171)	Systems that heat outside the building envelope are installed and controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2 (M155)	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	See the Mechanical System list for values.
C403.2 (M159)	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has the capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7 (M159)	Demand control ventilation provided for spaces >= 500 sq ft and >= 25 people/1000 sq ft and is controlled by systems with an auto retimer/occupancy sensing device or timer switch >= 3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7 (M159)	Enforced parking garage ventilation has automatic containment detection and capacity to stop or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7 (M159)	HVAC systems serving guestrooms in Group 1a buildings with >= 50 guestrooms. Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.1 and C403.7.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7 (M159)	Exhaust air energy recovery in systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 5 of 10  
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Section & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.1.1 (M161)	Exhaust systems comply with replacement air and conditioned supply air intakes, and supply hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.1.1 (M161)	HVAC ducts and plenums installed in accordance with C403.1.1 and C403.1.2. Verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1 (M167)	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when vestibule air temperatures >= 43°F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60°F and cooling setpoint >= 60°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.3 (M153)	Hot gas bypass limited to <= 240 tBtu/h - 50% >= 240 tBtu/h - 25%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.2.3 (M157)	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5 (M123)	Refrigerated display cases, walk-in coolers or walk-in freezers served by condensing units, have refrigerant condensers not located in a condensing unit, take temperature systems that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 4 of 10  
COMCHECK.cck

Section & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C404.1 (E129)	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C404.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.1 (E127)	Electric motors meet the minimum efficiency requirements of Tables C405.1(1) through C405.1(4) efficiency verified through certification under an approved certification program or the equipment efficiency rating label provided by motor manufacturer (where certification is not required).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2 (E128)	Locations and methods comply with ASME A17.1, CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1, CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.1 (E129)	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 7 of 10  
COMCHECK.cck

Section & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C402.1 (F101)	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.2 (F102)	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.3 (F103)	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.3 (F103)	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.4 (F104)	Preliminary commissioning report completed and verified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.5 (F105)	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.5 (F105)	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.5 (F105)	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 8 of 10  
COMCHECK.cck

Section & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4 (F111)	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.3 (F112)	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.4 (F107)	All piping insulated in accordance with section details and Table C403.1.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.1.1 (F101)	Building operations and maintenance documents will be provided to the owner. Documents will cover: specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

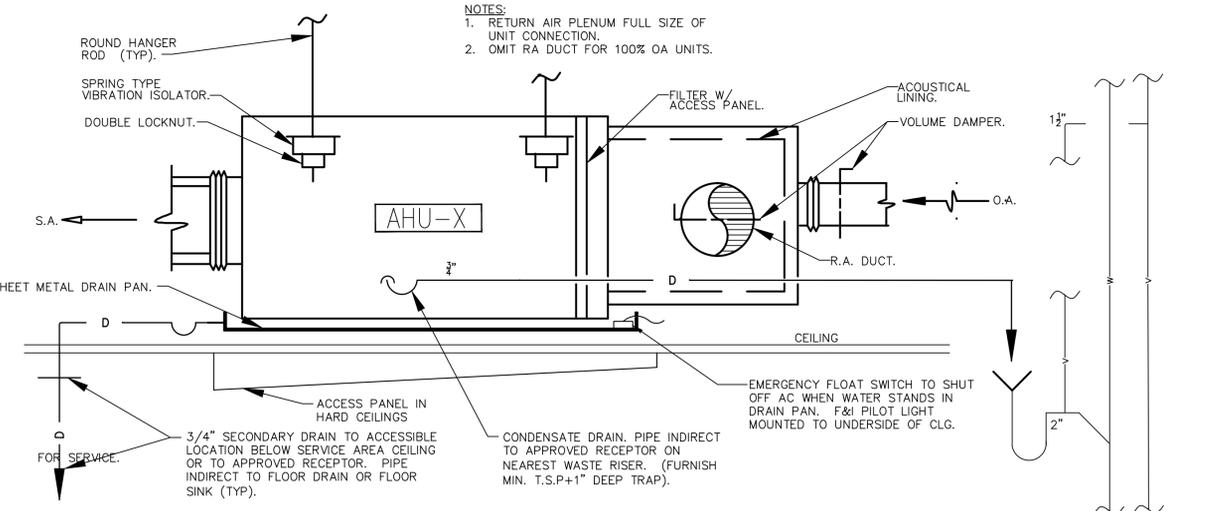
1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
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Section & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.4 (M141)	Thermally reflective panel surfaces of sensible heating panels have insulation >= R-5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.1.3 (M141)	HVAC piping insulation installed in accordance with Table C403.1.3. Insulation exposed to weather is protected from damage and is provided with sheathing from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.1.4 (M142)	Wiring for fans that are not less than 1.75 ft and less than 1.5 ft away or have a minimum motor efficiency of 75 percent. These motors have the means to adjust motor speed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.1.4 (M143)	Each CR cooling system > 45 tBtu/h and chiller water/propagative cooling systems designed to vary the indoor fan airflow as a function of load and capacity, each capable of meeting the minimum airflow rate required in this section.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.1.5 (M171)	Systems that heat outside the building envelope are installed and controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2 (M155)	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	See the Mechanical System list for values.
C403.2 (M159)	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has the capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7 (M159)	Demand control ventilation provided for spaces >= 500 sq ft and >= 25 people/1000 sq ft and is controlled by systems with an auto retimer/occupancy sensing device or timer switch >= 3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7 (M159)	Enforced parking garage ventilation has automatic containment detection and capacity to stop or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7 (M159)	HVAC systems serving guestrooms in Group 1a buildings with >= 50 guestrooms. Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.1 and C403.7.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7 (M159)	Exhaust air energy recovery in systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Applicable	Requirement will be met.

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)

Project Title: Domino's Pizza  
Report date: 04/23/21  
Data Name: S:\2 PROJECT FILES\400\9401 (Slove Covey, Lee's Summit, MO, New Store, CDDID-MEP3401) Page 5 of 10  
COMCHECK.cck



TYPICAL AHU MOUNTING DETAIL  
NO SCALE

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/16/2021



1001 SE SANDY BLVD., SUITE 100  
PORTLAND, OR 97214  
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Project No: 5401 / Store # 1684  
Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133

ISSUED FOR PERMIT:  
04.22.2021

REV.	DATE	DESCRIPTION

SHEET NAME:  
MECHANICAL ENERGY CERTIFICATE AND DETAIL

SHEET NUMBER:  
M5.0

## MECHANICAL SPECIFICATIONS

### WORK INCLUDED -

ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF AN OPERATING HVAC SYSTEM INCLUDING HVAC EQUIPMENT, DUCTWORK, GRILLES, REGISTERS, CONTROL AND RELATED ITEMS AS REQUIRED OR SPECIFIED. OBTAIN AND PAY FOR BUILDING PERMITS, FEES, TESTS, AND INSPECTIONS REQUIRED IN CONNECTION WITH WORK. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL GOVERNING CODES AND ORDINANCES. THE FINAL PRODUCT SHALL BE A COMPLETE WORKING SYSTEM.

### GENERAL -

ALL HVAC EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS AND PIPING. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR STRUCTURAL CONFLICT THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. DO NOT SCALE DRAWINGS. THE LOCATION OF ALL DUCTWORK, EQUIPMENT AND RELATED ITEMS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION. THE EQUIPMENT AND DUCTWORK/DIFFUSER LOCATIONS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. VERIFY ALL CRITICAL DIMENSIONS AND ROUGH-IN REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATIONS DIRECTLY UPON THE CONTRACTOR.

### SUBSTITUTIONS -

IF THE CONTRACTOR DESIRES TO USE EQUIPMENT AND/OR MATERIAL OF EQUAL QUALITY OTHER THAN THAT SPECIFIED, HE SHALL HAVE REQUESTED, IN WRITING, APPROVAL OF EACH SUCH SUBSTITUTION AND RECEIVED APPROVAL PRIOR TO BID OPENING. A CONTRACTOR OFFERING A SUBSTITUTION SHALL ACCEPT RESPONSIBILITY FOR ITS EFFECT ON THE WORK OF ALL TRADES. THE CONTRACTOR WHO REQUESTED SUCH SUBSTITUTION SHALL PAY ALL COST AND CHANGES RESULTING FROM THE INCLUSION OF SUBSTITUTIONS.

DISCREPANCIES - IN THE EVENT THAT THE CONTRACTOR FINDS DISCREPANCIES OR OMISSIONS, OR IS IN DOUBT AS TO THE EXACT MEANINGS OF THE PLANS AND/OR SPECIFICATIONS, HE SHALL, BEFORE COMMENCING WORK, CONTACT THE ARCHITECT FOR CLARIFICATION.

### FIRE/DRAFT STOP SURVEY -

THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS TO VERIFY THE LOCATION OF ALL FIRE AND/OR DRAFT BARRIERS IN THIS PROJECT PRIOR TO CONSTRUCTION. F&I UL AND LOCAL CODE APPROVED FIRE/SMOKE DAMPERS AND MECHANICAL PIPING PENETRATION, CONSTRUCTION MATERIALS AND INSTALLATION METHODS FOR BARRIER RATING ENCOUNTERED. INCLUDE RATED ACCESS PANELS FOR EACH DAMPER. FAILURE OF THE CONTRACTOR TO VERIFY REQUIRED FIRE/DRAFT BARRIER REQUIREMENTS PRIOR TO BIDDING THESE DOCUMENTS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATIONS OR REVISIONS DIRECTLY ON THE CONTRACTOR.

### ACCEPTABLE MANUFACTURERS -

THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT AND HVAC MATERIALS ARE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH CONTRACT DOCUMENTS. VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES, SPACE ALLOCATIONS, AND THAT THE WEIGHTS WILL NOT EXCEED STRUCTURAL DESIGN LOADS.

HVAC EQUIPMENT: TRANE, CARRIER, PAYNE, YORK, DAY & NIGHT, LENNOX, RUUD AND ICP COMMERCIAL.

DUCT & PIPE INSTALLATION: KNAUF, OWENS-CORNING, MANVILLE, CERTAIN-TEED AND PPG

EVAPORATE COOLERS: ARVIN, GOETTL, WESTER COOL, UNITED METAL PRODUCTS

MAKE-UP AIR UNITS: ARIES, REZNO, WESTERN AND STERLING

HVAC CONTROLS: HONEYWELL, BARBER-COLEMAN, ROBERT SHAW, OR HVAC EQUIPMENT SUPPLIER FURNISHED

GRILLES, REGISTERS, DIFFUSERS & LOUVERS: ANEMOSTAT, KRUEGER, METAL-AIRE, TITUS, RUSKIN AND PENN

ACCESS DOORS: MILCOR, VENTGAB AND POTTER-ROEMER

FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT

EXHAUST FANS: GREENHECK, ACME, ILG, LOREN COOK, PENN AND BRAUN

SMOKE & FIRE DAMPERS: RUSKIN, PHILLIPS AND AIR BALANCE

### AIR CONDITIONING UNITS -

SELF CONTAINED OR SPLIT SYSTEM. ELECTRIC HEAT PUMP AIR CONDITIONING AND ELECTRIC RESISTANCE OR GAS HEATING SECTION TYPE, CAPABILITIES AND RATING INDICATED ON THE DRAWINGS, ARI, AND/OR AGA CERTIFIED, UL LISTED. INCLUDE FACTORY ACCESSORIES NECESSARY TO MAKE EQUIPMENT COMPLETELY OPERATIONAL.

### EVAPORATIVE COOLER UNITS -

FURNISH AND INSTALL EVAPORATIVE COOLERS. EACH UNIT SHALL BE COMPLETE WITH BLOWER AND MOTOR WITH STARTERS, F&I SNAP LOCK PAD FRAMES, UNDERCOATING OF RESERVOIR, STRAINER BASKET, FLOAT KIT, WATER CONNECTION KIT, 'AQUATROL' BLEED CONTROL PUMP, MODELS AND CAPACITIES AS INDICATED ON DRAWINGS. APPROVED UNITS SHALL BE CERTIFIED FOR AIR DELIVERY OR BE INCREASED IN SIZE TO MEET DESIGN STANDARDS. INCLUDE FACTORY ACCESSORIES NECESSARY TO MAKE EQUIPMENT COMPLETELY OPERATIONAL. COOLER SHALL BE CONNECTED TO A SYSTEM OF DRAINAGE TO FACILITATE THE DRAINING OF COOLER AND THE BLEED-OFF LINES. LINES SHALL BE TYPE 'M' COPPER, TERMINATE DRAINAGE LINES AS INDICATED ON DRAWINGS. EVAPORATIVE COOLING EQUIPMENT SHALL BE U.L. LISTED AND MUST HAVE A PERMANENTLY ATTACHED LABEL.

### HVAC EQUIPMENT DRAINS -

TO BE INSTALLED AS INDICATED OR REQUIRED. USE TYPE 'M' COPPER TUBING AND WROUGHT COPPER MECHANICAL FITTINGS. EXTEND DRAINS TO NEAREST CODE APPROVED RECEPTOR, LAVATORY TAILPIECE (FURNISHED BY PLUMBER) OR DRAIN OUTSIDE IN PLANTER AREA. SLOPE DRAIN AT A MINIMUM OF 1/8" PER FT.

NOTE: INSULATE ALL CONDENSATE DRAIN LINES ABOVE CEILING.

NOTE: CONTRACTOR OPTION TO USE PVC WITH OWNERS APPROVAL. SCHEDULE 40 PVC ACCEPTABLE WHERE CONCEALED WITHIN STRUCTURE. NO PVC PIPING ABOVE ROOF OR AT EXTERIOR OF BUILDING.

### TEMPERATURE CONTROL SYSTEM -

AS INDICATED OR REQUIRED, F&I THERMOSTAT AND SUB BASE, WITH HINGED AND LOCKABLE OPAQUE COVER(PUBLIC AREAS ONLY). CONTROLS SHALL BE FURNISHED AS RECOMMENDED BY HVAC EQUIPMENT SUPPLIER, SUITABLE FOR APPLICATION, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONTRACTOR TO COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT/OWNER.

NOTE: CONTRACTOR TO F&I PROGRAMMABLE THERMOSTAT.

NOTE: EACH HEATING AND COOLING SYSTEM SHALL HAVE AT LEAST ONE SOLID-STATE PROGRAMMABLE THERMOSTAT. THE THERMOSTAT SHALL HAVE THE CAPABILITY TO SET BACK OR SHUT DOWN THE SYSTEM BASED ON DAY OF THE WEEK AND TIME OF DAY, AND F&I A READY ACCESSIBLE MANUAL OVERRIDE THAT WILL RETURN TO THE PRE-SETBACK OR SHUTDOWN WITHOUT REPROGRAMMING.

### EXHAUST FANS -

SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. FURNISH COMPLETE WITH FACTORY CURBS/ROOF CAPS, BAROMETRIC DAMPER, SPEED CONTROL, DISCONNECT, STARTER (IF REQUIRED) AND BIRD SCREEN. FURNISH ROOF MOUNTED FANS WITH INSULATED ROOF CURB, F&I CEILING MOUNTED FANS WITH WALL/FIRE CAP.

NOTE: ALL EXHAUST SYSTEMS MUST HAVE DAMPERS THAT ARE AUTOMATICALLY CLOSED WHILE THE EQUIPMENT IS NOT OPERATING.

### GRILLES, DIFFUSERS AND REGISTERS -

SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. F&I ALUMINUM TYPE FOR EVAPORATIVE COOLERS AND AREAS SUBJECT TO MOISTURE. F&I EXTRACTORS BEHIND ALL SUPPLY REGISTERS.

NOTE: EACH SUPPLY AIR OUTLET OR DIFFUSER MUST HAVE ITS OWN BALANCING DEVICE. ACCEPTABLE BALANCING DEVICES INCLUDE ADJUSTABLE DAMPERS LOCATED WITHIN THE DUCTWORK, TERMINAL DEVICES AND SUPPLY AIR DIFFUSERS. EACH BALANCING DEVICE OR OTHER MEANS OF SUPPLY AIR ADJUSTMENT USED IN BALANCING SHALL BE FURNISHED WITH ACCESS.

### DUCTWORK -

ALL DUCTWORK INSTALLATIONS MUST CONFORM TO REQUIREMENTS OF THE LATEST EDITION OF THE CODE. ALL LOW PRESSURE HEATING AND AIR CONDITIONING DUCTWORK SHALL BE FABRICATED FROM LOCK FORMING PRIME GRADE GALVANIZED STEEL SHEETS (MAKE-UP AIR DUCTWORK CONVEYING EVAPORATIVE COOLED AIR SHALL BE FABRICATED FROM ALUMINUM SHEETS), AND INSTALLED BY SKILLED MECHANICS IN STRICT CONFORMANCE WITH THE LATEST SMACNA MANUAL. CROSS BREAK ALL SIDES OF DUCTS. SUPPORT ALL DUCTWORK FROM OVERHEAD STRUCTURE WITH STRAP IRON OR ANGLES. ALL DUCT DIMENSIONS ARE NET FREE AREA AND DO NOT INCLUDE ALLOWANCE FOR INSULATION. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS, MESH AND MASTIC SEALING SYSTEMS, OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH U.L. 181A OR U.L. 181B.

### HORIZONTAL AND VERTICAL DUCT SUPPORTERS -

REFER TO CURRENT CODE EDITION FOR DUCT SUPPORTS.

### DUCTWORK FABRICATION -

F&I CONNECTIONS BETWEEN EQUIPMENT AND DUCTWORK (DURODYNE 'GRIP LOCK' OR EQUAL). F&I SHEET METAL SHIELDED OVER EXPOSED JOINTS. COVER ALL JOINTS, SEAMS AND LOCKS ON INTERIOR AND EXTERIOR DUCTWORK WITH 4 OZ. CANVAS SATURATED WITH VINYL ACRYLIC DUCT SEALANT (UL LISTED, FLAME SPREAD 0) TO MAKE AIR TIGHT. WHERE DUCTS PASS THROUGH THE WALLS OR ROOF, FLUSH AND COUNTER FLASH TO LEAVE WATERIGHT INSTALLATION. PAINT ALL EXPOSED DUCTWORK TO MATCH SURROUNDING CONSTRUCTION OR AS RECOMMENDED BY ARCHITECT. F&I AIRFOIL TURNING VANES ON ALL RIGHT ANGLE ELBOWS. F&I VOLUME AND SPLITTER DAMPERS WHERE SHOWN ON DRAWINGS AND AS REQUIRED. FLEXIBLE DUCTWORK SHALL BE OF FLEXIBLE WIRE REINFORCED FIBERGLASS DUCT TYPE UL CLASS 1, AND NYLON LINER AND COVER CONNECTORS TO BE UL APPROVED. FLEXIBLE DUCTWORK SHALL BE LIMITED TO RUN-OUTS TO DIFFUSERS OF (5) FIVE FT. OR LESS, SUPPORTED WITH STRAP HANGERS.

### DUCTWORK INSULATION -

ALL ACOUSTIC LINER TO BE MINIMUM 1.5 PCF DENSITY, WITH NFPA 90A APPROVED LINER OR COATING. THERMAL INSULATION SHALL BE MINIMUM 3/4 PCF DENSITY, WITH A MAXIMUM 'K' FACTOR OF 0.30 AT 75DEGREES F AND SHALL HAVE A FLAME RETARDANT FOIL-SKIMMRAFT VAPOR BARRIER (FSK), FASTENED TO DUCTWORK WITH 16 GA. WIRE @ 12" O.C. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS. EXTERIOR HVAC DUCTWORK TO BE LINED WITH 2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 IN CLIMATE ZONES 1 THROUGH 4, AND R-12 IN CLIMATE ZONES 5 THROUGH 8. INTERIOR DUCTWORK BELOW CEILING INSULATION TO BE LINED WITH 2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 (MIN.) AND WRAP WITH 1-1/2" FIBERGLASS DUCT WRAP 3/4 PCF, K=0.31 AT 75DEGREES F, R=8 (MIN.) AND FLAME RETARDANT FOIL-SKIMMRAFT VAPOR BARRIER (SKF). INTERIOR SHEET METAL DUCTWORK ABOVE CEILING INSULATION TO BE LINED WITH 2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 (MIN.) OR WRAP WITH FIBERGLASS DUCT WRAP. 3/4" PCF, K=0.31 AT 75DEGREES F, R=8 (MIN.). COMBINATION HEATING/COOLING MAKE-UP AIR DUCTWORK CONVEYING EVAPORATIVE COOLED AIR SHALL BE INSULATED ON THE EXTERIOR WITH 1-1/2" THICK GLASS FIBER RIGID BOARD WITH ALL SERVICE JACKET (MIN. 3 PCF DENSITY, K=0.23, R=8). RIGID INSULATION ON OUTDOOR DUCTWORK SHALL BE COVERED WITH A LAYER OF OPEN WEAVE GLASS CLOTH EMBEDDED BETWEEN TWO COATS OF WEATHERPROOF MASTIC OF NOT LESS THAN 1/8" TOTAL THICKNESS. DUCTWORK CONVEYING EVAPORATIVE COOLED AIR ONLY SHALL NOT BE INSULATED. DUCTWORK INSULATION SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT ENERGY CODE EDITION AND SHALL BE INSTALLED BY LICENSED INSULATION CONTRACTOR, IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. ALL AIR DUCTS MUST BE INSULATED TO THE FOLLOWING LEVELS:

A. SUPPLY AND RETURN AIR DUCTS FOR CONDITIONED AIR LOCATED IN UNCONDITIONED SPACES (SPACES NEITHER HEATED NOR COOLED) MUST BE INSULATED WITH A MINIMUM OF R-6. UNCONDITIONED SPACES INCLUDE: ATTICS, CRAWL SPACES, UNHEATED BASEMENTS AND UNHEATED GARAGES.

B. SUPPLY AND RETURN AIR DUCTS AND PLENUMS MUST BE INSULATED TO A MINIMUM OF R-8 WHEN LOCATED OUTSIDE THE BUILDING IN CLIMATE ZONES 1 THROUGH 4, AND R-12 IN CLIMATE ZONES 5 THROUGH 8.

C. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THROUGH 4 AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8

EXCEPTION: DUCT INSULATION IS NOT REQUIRED ON DUCTS LOCATED WITHIN THE EQUIPMENT EXCEPTION: DUCT INSULATION IS NOT REQUIRED WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15DEGREES F.

D. MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT, INCLUDING MULTIPLE-ZONE TERMINAL UNITS.

E. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS, MESH AND MASTIC SEALING SYSTEMS; OR TAPES, TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED '181A-M' FOR PRESSURE-SENSITIVE TAPE, '181A-M' FOR MASTIC OR '181A-M' FOR HEAT-SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED '181B-FX' FOR PRESSURE-SENSITIVE TAPE OR '181B-M' FOR MASTIC. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

### LOW PRESSURE HVAC DUCTWORK -

LOW PRESSURE DUCTWORK TO BE ANY DUCTWORK AT 2" W.G. OR LESS. CONSTRUCT PARTITION FORMING PLENUMS OR SLOTTION CHAMBERS OF #18 GAUGE WITH 1-1/2" x 1-1/2" x 3/16" GALVANIZED IRON ANGLES AND RWETS FOR SEAM CONNECTIONS AND STIFFENING. ALL SUPPLY, RETURN AND EXHAUST DUCTS (AS NOTED) SHALL BE PRIME STEEL SHEETS HOT-DIPPED GALVANIZED OF THE FOLLOWING GAUGES:

UP TO 12" WIDE OR DIAMETER - #26

13" UP TO 30" WIDE OR DIAMETER - #24

31" UP TO 45" WIDE OR DIAMETER - #22

ALL EXHAUST DUCTWORK SHALL BE - #24

### HVAC INTERLOCKS/ SMOKE DETECTORS -

F&I ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO INTERLOCK HVAC SUPPLY AND EXHAUST SYSTEMS SPECIFIED ON THE DRAWINGS OR REQUIRED BY THE CURRENT MECHANICAL CODE, FURNISH, INSTALL AND CONNECT SMOKE DETECTORS (APPROVED BY REGULATING AGENCY) ON THE RETURN SIDE OF ALL HVAC FANS EXCEEDING 2000 CFM OR AS REQUIRED PER LOCAL REGULATIONS TO SHUT DOWN FAN IF SMOKE IS DETECTED IN DUCTWORK. SMOKE DETECTOR SHALL BE MOUNTED IN RETURN AIR DUCT. AUTOMATIC SHUT-OFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE MECHANICAL UNIT UPON DETECTION OF SMOKE IN THE MAIN RETURN AIR DUCT. ACTIVATION OF ANY DETECTOR SHALL SHUT DOWN ALL UNITS WITHIN THE SYSTEM. SMOKE DETECTOR SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATION VELOCITIES, PRESSURES, TEMPERATURE AND HUMIDITY OF THE SYSTEM. DETECTOR SHALL BE 120 V/1 PHASE (OR AS DIRECTED BY THE ELECTRICAL CONTRACTOR) AND U.L. LISTED. COORDINATE AS REQUIRED PRIOR TO ORDERING AND INSTALLING. DETECTOR SHALL BE FURNISHED AND INSTALLED BY MECHANICAL. LINE VOLTAGE BY ELECTRICAL.

NOTE: IF A FIRE ALARM SYSTEM IS AVAILABLE, THE DUCT SMOKE DETECTOR(S) SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM PER THE CURRENT MECHANICAL CODE. IF A FIRE ALARM SYSTEM IS NOT AVAILABLE, F&I A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY SUPERVISED LOCATION TRIGGERED BY THE ACTIVATION OF A DUCT SMOKE DETECTOR. INCLUDE THE AIR DUCT DETECTOR AND A VISIBLE INDICATOR (LED AT THE CEILING BELOW THE DUCT DETECTOR) AS REQUIRED BY THE CURRENT MECHANICAL CODE.

NOTE: SMOKE DETECTORS ASSOCIATED WITH SMOKE DAMPERS AND HVAC SHUTOFFS SHALL BE TESTED BY AN APPROVED TESTING AGENCY OR A QUALIFIED THIRD PARTY SPECIAL INSPECTOR. THE SPECIAL INSPECTOR/TESTING AGENCY SHALL BE AN INDEPENDENT THIRD PARTY INDIVIDUAL OR FIRM AND SHALL NOT BE THE INSTALLING CONTRACTOR. A PROFESSIONAL ENGINEER SHALL SUBMIT A FINAL SIGNED AND SEALED REPORT TO THE MECHANICAL INSPECTOR PRIOR TO CITY ISSUANCE OF FINAL INSPECTION APPROVAL OR OCCUPANCY APPROVAL, INCLUDING CONDITIONAL OCCUPANCY APPROVAL.

NOTE: IF A COMPLETE FIRE ALARM DETECTION SYSTEM IS INSTALLED IN THE BUILDING THEN SMOKE DUCT DETECTORS ARE NOT REQUIRED PER THE CURRENT MECHANICAL CODE, AS LONG AS THE FIRE ALARM SYSTEM IS INTERCONNECTED TO THE MECHANICAL UNITS TO SHUT DOWN IN THE EVENT OF FIRE ALARM ACTIVATION IN ACCORDANCE WITH THE CURRENT MECHANICAL CODE.

### ELECTRICAL WORK -

MECHANICAL DIVISION SHALL FURNISH ALL MOTOR STARTERS REQUIRED FOR MECHANICAL EQUIPMENT, UNLESS INCLUDED AS AN INTEGRAL PART OF THE HVAC EQUIPMENT. F&I SUITABLE ENCLOSURE PER NEMA STANDARDS. ALL LOW VOLTAGE (24V) CONTROL WIRING OR THERMOSTATS AND OTHER CONTROL REQUIREMENTS TO BE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR. ALL LINE VOLTAGE WIRING AND CONDUIT INCLUDING LOW VOLTAGE CONTROL CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. SMOKE DETECTORS TO BE WIRED BY THE ELECTRICAL CONTRACTOR.

### OUTSIDE AIR REQUIREMENTS -

LOCATE ALL OUTSIDE AIR INTAKE AIR OPENINGS A MINIMUM OF 10'-0" FROM PLUMBING VENTS, EXHAUST FANS, AND/OR GAS FLUE VENTS. F&I OUTSIDE AIR GRILLE (FILTER IF REQUIRED) AND OBD.

NOTE: MINIMUM OSA REQUIREMENTS SHALL COMPLY WITH THE CURRENT MECHANICAL CODE.

CONTRACTOR TO BALANCE OUTSIDE AIR TO CFM SHOWN ON OUTSIDE AIR SCHEDULE. CONTRACTOR SHALL F&I A COPY OF AIR BALANCE TEST REPORT TO FIELD INSPECTOR PRIOR TO FINAL INSPECTION. VENTILATION SYSTEMS SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AIR FLOW RATES REQUIRED BY THE CURRENT ENERGY CODE.

### SYSTEM START-UP/AIR BALANCE -

BEFORE FINAL ACCEPTANCE, CONTRACTOR SHALL DEMONSTRATE THAT ALL APPARATUS IS FUNCTIONING PROPERLY IN ACCORDANCE WITH FACTORY START-UP RECOMMENDATIONS. AIR QUANTITIES SHALL BE BALANCED FOR EVEN TEMPERATURES THROUGHOUT CONTROLS AND/OR INTERLOCKS/SMOKE DETECTORS ADJUSTED, AND THE SYSTEM PLACED INTO OPERATION. AIR BALANCE WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL LISTED WITH NEBB OR ARI. FURNISH THE FOLLOWING START-UP BALANCE INFORMATION IN TWO (2) COPIES TO THE OWNER/ARCHITECT FOR REVIEW PRIOR TO PROJECT CLOSE: SUPPLY/EXHAUST CFM AT EACH DIFFUSER/REGISTER (USING FLOOD HOOD) OUTSIDE AIR QUANTITY TO EACH HVAC UNIT, DISCHARGE/RETURN AIR TEMPERATURES AT THE HVAC UNIT (FOR BOTH HEATING AND COOLING MODE), AND THE HVAC MOTOR AMP DRAW. FURNISH OWNER WITH WRITTEN CERTIFICATION FROM THE HVAC EQUIPMENT SUPPLIER(S) THAT ALL EQUIPMENT HAS BEEN INSTALLED PER MANUFACTURERS RECOMMENDATIONS. INCLUDE THE COST OF ANY ADDITIONAL OPPOSED BLADE VOLUME DAMPERS, MOTOR SHAFTS, ETC. NECESSARY TO ACHIEVE AIR QUANTITIES LISTED. INCLUDE AN EXTENDED 90 DAY WARRANTY, DURING WHICH TIME THE ENGINEER MAY REQUEST A RECHECK OR RESETTING OF ANY AIR QUALITY, OR NOT MORE THAN TWO CHANGES OF NON-ADJUSTABLE SHAFTS TO OBTAIN DESIRED AIR QUANTITIES. CONTRACTOR SHALL MAKE ANY CHANGES IN PULLEYS, BELTS, OR ADDITIONAL DAMPERS REQUIRED FOR CORRECTED AIR BALANCE AS REQUIRED BY BALANCE AGENCY AT NO ADDITIONAL COST TO THE OWNER.

### INSTRUCTIONS/ O&M MANUAL -

THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL INSTALLED HVAC EQUIPMENT. THE CONTRACTOR SHALL FURNISH A MINIMUM OF TWO (2) BOUND OPERATING AND MAINTENANCE MANUALS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE MANUAL SHALL INCLUDE: EQUIPMENT CAPACITY (INPUT AND OUTPUT), CONTROL AND/OR INTERLOCK WIRING DIAGRAMS, SEQUENCE OF OPERATION, PREVENTATIVE MAINTENANCE SCHEDULE, NAME, ADDRESS AND PHONE NUMBER OF THE LOCAL PRODUCT REPRESENTATIVE.

### GUARANTEE -

ALL LABOR AND MATERIALS FURNISHED OR INSTALLED UNDER THIS SECTION SHALL CARRY A WRITTEN ONE (1) YEAR GUARANTEE BY THE MECHANICAL CONTRACTOR TO THE OWNER, COVERING MATERIALS AND WORKMANSHIP IN FULL. FURNISH EXTENDED FIVE (5) YEARS FACTORY PARTS AND LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS. EXISTING HVAC EQUIPMENT, DUCTWORK AND/OR HVAC COMPONENTS REUSED IN THE JOB ARE NOT COVERED UNDER THIS WARRANTY.

## MECHANICAL GENERAL NOTES

1. PRIOR TO THE CONTRACTOR ORDERING OR PLACING ANY AIR CONDITIONING EQUIPMENT, DUCTWORK, OR AIR DEVICE, HE SHALL VERIFY LOCATION OF PLACEMENT WITH STRUCTURAL DRAWINGS AND CONFIRM WEIGHTS, DISCHARGE CONFIGURATION, SIZES, ELECTRICAL CHARACTERISTICS AND ANY OTHER DIMENSIONAL DATA WHICH MIGHT AFFECT THE SUCCESSFUL INSTALLATION OF THE MECHANICAL SYSTEM.

2. FURNISH CLEARANCES AS PER MANUFACTURERS RECOMMENDATIONS.

3. F&I EQUIPMENT IDENTIFICATION AS TO THE SPACE OR AREA SERVED.

4. REFER TO ARCHITECTURAL DRAWINGS FOR ACCESS TO ROOF INSTALLED MECHANICAL EQUIPMENT.

5. PRIOR TO PENETRATION AND/OR INSTALLATION OF ANY ROOF TOP EQUIPMENT, CONTRACTOR IS TO COORDINATE WITH LANDLORD ROOF MONITOR. ALL ROOF WORK TO BE PERFORMED BY LANDLORD ROOF MONITOR CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.

6. FIELD COORDINATE SIZE AND PLACEMENT OF DRAIN LINES REQUIRED FOR ROOFTOP HEAT PUMPS, EVAPORATIVE COOLERS, FURNACES, HUMIDIFIERS, ETC., WITH PLUMBING CONTRACTOR TO ROUGH-IN.

7. F&I VIBRATION ISOLATORS FOR ALL MECHANICAL EQUIPMENT SUPPORTED FROM STRUCTURE.

8. NOTIFY GENERAL CONTRACTOR AND/OR ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH-IN.

9. ALL HVAC EQUIPMENT, INCLUDING EVAPORATIVE COOLERS, SHALL BE UL, ETL AND/OR AGA LISTED.

10. F&I ALL EXHAUST AIR DUCTS WITH BACKDRAFT DAMPER.

11. F&I AN ELECTRICAL INTERLOCK FOR MAKE-UP AIR UNITS AND ASSOCIATED EXHAUST FANS AS REQUIRED. SEE SCHEDULES.

12. KITCHEN HOOD AND EXHAUST DUCTWORK TO CONFORM TO NFPA-96 STANDARDS AND THE CURRENT MECHANICAL CODE FOR DOMESTIC AND SECTION 506 FOR COMMERCIAL KITCHENS.

13. SLOPE ALL HORIZONTAL EXHAUST DUCTS AT 1/4" PER FOOT TOWARDS HOOD INTAKE.

14. F&I CLEAN-OUT ACCESS PANELS AS SHOWN HAVING A FIRE RESISTIVE RATING EQUAL TO SHAFT ENCLOSURE.

15. EXTERNAL WELD ALL JOINTS AND SEAMS OF ALL KITCHEN EXHAUST DUCTS.

16. MECHANICAL CONTRACTOR TO COORDINATE EXACT KITCHEN HOOD OPENINGS WITH KITCHEN CONTRACTOR PRIOR TO ANY CONSTRUCTION.

17. F&I FIRE DAMPERS AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOOR. FIRE DAMPER AND FIRE DAMPER INSTALLATION SHALL CONFORM TO LOCAL BUILDING AND MECHANICAL CODE REQUIREMENTS AND SMACNA STANDARDS. F&I WITH ACCESS DOOR AS REQUIRED.

18. FLUE AND COMBUSTION AIR DUCTS PENETRATING ROOF STRUCTURE SHALL BE ENCLOSED IN ONE-HOUR SHAFT.

19. ALL TEMPERATURE CONTROLS ARE TO BE TESTED, ADJUSTED AND CALIBRATED FOR PROPER OPERATION.

20. MOUNT ALL THERMOSTATS AT 48" THROUGH 54" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT/OWNER. F&I WITH LOCKING COVER AS REQUIRED BY THE ARCHITECT AND/OR OWNER. F&I WITH PROGRAMMABLE THERMOSTAT.

21. INSTALL CLEANOUTS AT EVERY 90DEGREES TURN ON AIR CONDITIONING CONDENSATE DRAIN LINES.

22. KEEP ALL FLUES, VENTS THROUGH ROOF AND EXHAUST DUCTS A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES OR WINDOWS AND FROM ALL VERTICAL PORTIONS OF THE BUILDING.

23. ALL GAS VENTS SHALL BE U.L. LISTED TYPE 'B' DOUBLE WALL AS MANUFACTURED BY 'METALBESTOS' OR EQUIVALENT.

24. COMBUSTION AIR DUCT OPENINGS TO BE COVERED WITH CORROSIIVE RESISTANT SCREEN OF 1/4" MESH.

25. CONTRACTOR SHALL BALANCE AIR DISTRIBUTION TO WITHIN 10% OF VALUES LISTED ON DRAWINGS. CONTRACTOR SHALL FURNISH TENANT WITH A COPY OF FINAL HVAC AIR TEST AND BALANCE REPORT FROM INDEPENDENT NEBB ORABC CERTIFIED CONTRACTOR.

26. LIGHTING LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT. EXACT PLACEMENT OF DIFFUSERS AND REGISTERS TO BE COORDINATED WITH ARCHITECT AND CONTRACTORS.

27. UNDERCUT ALL DOORS TO ROOMS WHERE A SUPPLY DIFFUSER EXISTS BUT NO RETURN GRILLE IS PRESENT BY A MINIMUM OF 1". THIS WILL ALLOW FOR FREE MIGRATION OF RETURN AIR.

28. COORDINATE OPENINGS FOR GRILLES, REGISTERS, DIFFUSERS, AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.

29. F&I RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

30. INSULATE FIRST TEN FEET (10) OF DUCTWORK WITH 1" THICK INTERNAL ACOUSTICAL INSULATION. INSULATE ALL SUPPLY AND RETURN AIR DUCTS WITH 1" THICK EXTERIOR DUCTWORK AND OTHER DUCTWORK NOT WITHIN THE ENVELOPE OF THE AIR CONDITIONED SPACE.

31. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING AND MECHANICAL CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

32. FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS 1 REQUIREMENTS OF THE NFPA BULLETIN NO. 96A AND SHALL BE INSULATED WITH 1" FIBERGLASS SUPPORT BY HELICAL WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 8'-0" F&I RIGID ROUND DUCTWORK FOR RUNS EXCEEDING 8'-0" IN TOTAL LENGTH.

NOTE: FLEXIBLE DUCTWORK NOT ALLOWED AT EXPOSED LOCATIONS.

33. TAPE ALL DUCT JOINTS WITH CANVAS AND ARABOL ADHESIVE.

34. DUCTWORK CONSTRUCTION AND INSTALLATION INCLUDING SHEET METAL GAUGES, REINFORCEMENT, JOINT SEALING, AIR LEAKAGE AND DETAILS NOT SPECIFICALLY SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH THE CURRENT MECHANICAL CODE FOR LOW VELOCITY DUCT CONSTRUCTION STANDARDS.

35. ALL DUCT DIMENSIONS SHOWN ARE CLEAR DIMENSIONS INSIDE DUCT LINER.

36. TAKE-OFF FITTINGS SHALL BE BELL MOUTH SPIN-IN TYPE WITH QUADRANT DAMPER. F&I VOLUME DAMPER AT EACH AND EVERY SUPPLY AIR BRANCH DUCT TAKE-OFF.

37. IF ABOVE CEILING DUCTWORK IS FABRICATED OF SHEET METAL, HANGERS SHALL BE INSTALLED AS REQUIRED BY THE CURRENT MECHANICAL CODE.

38. MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCES.

39. DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWINGS UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBIT. IN CASE OF A CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED, AND A MAXIMUM OF 1:4 RATIO FOR RECTANGULAR DUCTS SHALL ALSO BE MAINTAINED. DUCT SIZES SHOWN ARE 'CLEAR INSIDE' DIMENSIONS.

NOTE: CONTRACTOR OPTION TO USE ROUND DUCT WITH THE SAME CUBIC INCH VOLUME.

40. EXHAUST DUCTS SHALL BE 26 GAUGE GALVANIZED STEEL. SEE MECHANICAL EQUIPMENT SCHEDULE OR FLOOR PLAN FOR SIZES AND TERMINATION POINT.

41. ALL 'FACTORY MADE' DUCTS MUST BE CLASS 'O' OR CLASS '1'.

42. AIR CONDITIONING UNITS SERVING EVAPORATIVE COOLERS/MAKE-UP AIR UNITS SHALL BE FABRICATED FROM ALUMINUM SHEETS AND HAVE NO DUCT LINER.

43. ALL PENETRATIONS THROUGH DRAFT-STOPS TO BE SEALED.

44. FURNISH ALL LABOR, MATERIALS, TOOLS EQUIPMENT, TRANSPORTATION COSTS, RIGGING, FEES, PERMITS, CERTIFICATES OF INSPECTION, ETC., NECESSARY OR REASONABLE, AS REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.

45. UPON COMPLETION AND TESTING OF AIR CONDITIONING EQUIPMENT, THE CONTRACTOR SHALL REPLACE ALL CONSTRUCTION AIR FILTERS WITH NEW FILTERS OF THE SIZED SPECIFIED BY THE MANUFACTURER.

46. THE MECHANICAL CONTRACTOR SHALL ADEQUATELY SUPPORT, ERECT AND BALANCE ALL MATERIALS AND EQUIPMENT IN CONFORMANCE WITH LOCAL CODES AND HIGH STANDARDS OF CONSTRUCTION PRINCIPLES AND PRACTICES.

47. THE CONTRACTOR SHALL DO ALL THE NECESSARY CUTTING OF WALLS AND CEILING. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT AND THE ENGINEER. PATCH AROUND ALL OPENINGS TO MATCH EXISTING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BRING ALL SURFACES (FLOOR, WALLS AND CEILINGS) BACK TO ORIGINAL CONDITION AFTER MODIFICATIONS HAVE BEEN MADE.

48. INSTALL A COMPLETE AND WORKING MECHANICAL SYSTEM IN STRICT ACCORDANCE WITH THE CURRENT MECHANICAL CODE AND SMACNA STANDARDS.

49. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT, AIR DEVICES, PIPING, DUCTWORK, ETC., WITH PLUMBING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL AND GENERAL CONTRACTORS DRAWINGS.

50. WORKMANSHIP

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### PLUMBING LEGEND

SYMBOL		ABBREVIATION	DESCRIPTION
EXISTING	NEW		
		ACD	AIR CONDITIONING CONDENSATE DRAIN
		CW	COLD WATER
		DHW	DOMESTIC HOT WATER (110°F)
		DHW (140)	DOMESTIC HOT WATER (140°F)
		DHWR	DOMESTIC HOT WATER RETURN
		G	NATURAL OR LIQUEFIED PETROLEUM GAS
		S	SANITARY
		S	SANITARY BELOW FLOOR/GRADE
		ST	STORM DRAIN
		V	VENT LINE

SYMBOL	ABBREVIATION	DESCRIPTION
	POC	POINT OF CONNECT TO EXISTING
	UP / DOWN	PIPE UP / DOWN
	FS	FLOOR SINK
	FD	FLOOR DRAIN
		FIXTURE TRAP W/ VENT CONN.
	HB / WHT	HOSE BIBB / WALL HYDRANT
	SOV / BV / GV	SHUT-OFF, BALL OR GATE VALVE
	SOV	SHUT-OFF VALVE IN VALVE BOX
	WM	WATER METER IN BOX
	VTR	VENT THRU ROOF
	CO / FCO / GCO	CLEANOUT / FLOOR / GRADE
	CO / FCO / GCO	2-WAY CLEANOUT / FLOOR / GRADE
	WCO	WALL CLEANOUT
	POP	PUMP OUT PORT
		PIPE TRANSITION
		FLOW DIRECTION

### GENERAL NOTES:

- ALL PLUMBING FIXTURES SHALL BE LABELED AS MEETING EPA WATER SENSE (WWW.EPA.GOV/WATERSENSE).
- LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
- CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
- WHERE POSSIBLE, COMBINE PLUMBING VENTS TOGETHER SO AS TO MAKE THE MINIMUM NUMBER OF ROOF PENETRATIONS.
- WATER CLOSETS IN PUBLIC TOILET ROOMS SHALL CENTER ON THE FINAL LAYOUT OF TOILET PARTITIONS AND BE INSTALLED AS INDICATED IN THE ARCHITECTURAL DRAWINGS.
- ALL FLUE VENTS AND VTRS THROUGH ROOF SHALL BE A MINIMUM OF 10' FROM ALL AIR INTAKES AND EVAP. COOLERS.
- CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM ARCHITECT.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTION OF DISSIMILAR METALS.
- CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIP. ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- COPPER POTABLE WATER PIPING VELOCITY: FOR PIPE SIZES < 2 1/2" PIPE VELOCITY SHALL NOT TO EXCEED 6 FPS.
- CONTRACTOR SHALL VERIFY INVERT ELEVATION OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED PRIOR TO MAKING UP OR INSTALLING ANY OF THE NEW SANITARY SYSTEM.
- FLASHED AND COUNTERFLASH ALL VTRS, PIPES AND FLUES THRU ROOF. MAKE PENETRATIONS WATER TIGHT.
- WALL CLEANOUTS MAY BE SUBSTITUTED FOR FLOOR CLEANOUTS AT CONTRACTORS DISCRETION.

### FIELD VERIFICATION NOTES:

- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED.
  - PLACEMENT SIZE CAPACITY MANUFACTURER AND CONDITION OF ALL EXISTING PLUMBING EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
  - SIZE AND LOCATION OF ALL EXISTING WASTE, GREASE WASTE, VENT, GAS AND WATER PIPING.
- ALL REFERENCES IN THESE DRAWINGS TO EXISTING EQUIPMENT, FIXTURES AND PIPING TO BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING THE BID. THE BID SHALL INCLUDE ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTOR BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.
- PLUMBING ROUTINGS BASED ON OWNER'S SCHEMATICS OF LOCATION OF EXISTING FIXTURES AND SHELL DRAWINGS. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ACTUAL LOCATION OF SUPPLY LINES AND MAKING APPROPRIATE ADJUSTMENTS TO ACTUAL CONDITIONS IN THE FIELD.
- CONTRACTOR SHALL VERIFY INVERT ELEVATION OF SEWERS TO WHICH NEW SANITARY LINES ARE TO BE CONNECTED BEFORE SUBMITTING THE BID.
- PRIOR TO CONSTRUCTION VERIFY THE LOCATION OF THE HVAC/WALK-IN CONDENSATE FLOOR SINK. IF SLOPE AND DISTANCE OR IF IT IS INFEASIBLE TO DISPOSE OF WALK-IN COOLER CONDENSATE. USE A CONDENSATE PUMP.

### NATURAL GAS DOMESTIC HOT WATER HEATER SCHEDULE

MARK	MAKE	MODEL NO.	GAS (MBH)		FLOW RATE		EFF (%)	WATER TEMP (°F)			CONNECTION SIZES (IN)						ELECTRICAL				OPER. WEIGHT (LBS)	REMARKS		
			INPUT	OUTPUT	MIN (GPM)	MAX (GPM)		EWT	LWT	STOR	CW	HW	GAS	COND DRAIN	FLUE	COM B AIR	V/PH/ HZ	NORMA L	STANDBY	FREEZE PROT.			MAX CURRENT	FUSE
WH-1	RINNAI	RUR199I (REU-NP3237FF-US)	199	195	0.26	9.8	98%	40	140	---	3/4	3/4	3/4	3/4	4	4	120/1/60	205 W	3 W	150 W	8 AMPS	10 AMPS	73	NOTES 1, 2, 3 & 4

#### NOTES:

- F&I WITH FORCED AIR COMBUSTION UNIT, 12 V DC TEMPERATURE CONTROLLER, BUILT-IN RECIRCULATION PUMP, MC-91-2US CONTROLLER, 3 WATT ANTI-FROST PROTECTION, IPEX CONCENTRIC 4" VENT KIT. UNIT ACTIVATION FLOW RATE 0.4 GPM. HEATER TO BE CONFIGURED FOR CROSSOVER RECIRCULATION OPERATION.
- BASED UPON AN ENERGY FACTOR FOR NATURAL GAS = 0.95. UNIT TO CONFORM TO DOE 10 CFR PART 430.
- USE FEMALE UNTHREADED, SOCKETED ENDS, LONG TURN (SWEEP) ELBOWS FOR ALL CHANGES IN FLUE PIPE & COMBUSTION AIR PIPE DIRECTION CHANGES. F&I WITH FACTORY CONDENSATE NEUTRALIZER SIZED FOR UNIT.
- USE UBBINK POLUPROPYLENE CONCENTRIC VENT , TWIN PIPE PVC / CPVC PIPING SYSTEM OR CENTROTERM POLUPROPYLENE TWIN PIPE ADAPTOR KIT.

### ABBREVIATIONS

ABBREV.	DESCRIPTION
A/C	ABOVE CEILING
A/G	ABOVE GRADE
ACD	CONDENSATE DRAIN
AFF	ABOVE FINISHED FLOOR
B/F	BELOW FLOOR
B/G	BELOW GRADE
BP	BACKFLOW PREVENTER
COTG	CLEANOUT TO GRADE
CW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DU	DRAINAGE FIXTURE UNITS
F&I	FURNISH AND INSTALL
FCO	FLOOR CLEANOUT
FF	FINISHED FLOOR
GC	GAS COCK
GPM	GALLONS PER MINUTE
MFG	MEDIUM PRESSURE GAS PIPING
PRV	PRESSURE RELIEF VALVE
RD	ROOF DRAIN
RWL	RAIN WATER LEADER
SD	STORM DRAIN
UON	UNLESS OTHERWISE NOTED
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WU	POTABLE WATER FIXTURE UNITS

### PLUMBING FIXTURES SCHEDULE

FIXTURE	DESIGNATION	MFR. AND MODEL NUMBER	FITTING AND CAPACITY	ACCESSORIES/REMARKS	COLD WATER	HOT WATER	WASTE	VENT SIZE
KITCHEN SINK	KS-1	AERO 3 COMPARTMENT SINK, 87.25"W X 27"D X 39.5"H, INCLUDING 7" BACKSPLASH, 14 GAUGE SS SINK MODEL# 2F3-2116-18LR. BOWL SIZE 16"W X 21"D X 14"D. UNIT DRILLED FOR FAUCET 8" O.C. AND 18" DRAIN BOARDS ON BOTH ENDS.	F&I AMERICAN STANDARD 4298.152 FAUCET W/AERATOR, ECONOMY SPRAYER, WALL BRACKET & ADD-ON FAUCET	F&I W/ DEARBORN 3785A STRAINER, WASTE LEVER; BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS; E29 AERATOR; RISER TAILPIECE (AND MCGUIRE 8089 P-TRAP). SEE NOTE 2.	3/4"	3/4"	2"	1 1/2"
MOP SINK	MS-1	MUSTEE 63P	ROUGH CHROME FINISHED FAUCET W/WALL BRACKET AND 30 INCH HOSE.	F&I W/VACUUM BREAKER, 3/4" HOSE CONNECTION ON SPOUT/OUTLET AND MOP HANGER. SEE NOTE 2	3/4"	3/4"	3"	2"
HAND SINK	HS-1,2	AERO SS HAND SINK MODEL# HSF2S W/BACKSPLASH AND SPLASH GUARDS ON BOTH SIDES	FAUCET TO BE CHROME FINISHED W/KNEE CONTROLS AND AERATOR.	CW & DHW WATER HAMMER ARRESTERS: BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS AND E29 AERATOR; RISER TAILPIECE AND P-TRAP & ARM W/CLEANOUT AND ESCUTCHEON. SEE NOTES 1 & 2.	1/2"	1/2"	2"	1 1/2"
WATER CLOSET	WC-1	ZURN Z5555-K, FLOOR MOUNTED, ADA COMPLIANT, ELONGATED BOWL SIPHON JET WATER CLOSET.	FLUSH TANK, 1.28GAL PER FLUSH	CHURCH SEAT 9500C, FRONT OPEN SEAT AND BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS. SEE NOTE 2.	1/2"	---	3"	2"
LAVATORY	LV-1	VITROUS CHINA, ADA COMPLIANT LAVATORY WITH 4" CENTERS. ZURN MODEL # Z5340	ZURN Z81104-XL-3M FAUCET ON 4" CENTERS W/4" WRIST BLADES	SEE NOTES 1, 2, 3 & 4.	1/2"	1/2"	1 1/4"	1 1/2"
FLOOR SINK	FS-1	ZURN FD-1749	FOR FINISHED FLOOR AREA	12" SQ TOP X 4" DEEP. SEE NOTES 6 & 7	---	---	2"	1 1/2"
FLOOR DRAIN	FD-1	ZURN FD1-B-PB FLOOR DRAIN WITH 5" ROUND POLISHED BRASS TOP & ABS BODY.	FOR FINISHED FLOOR AREA	F&I WITH OR ASSE 1072 APPROVED TRAP SEAL AND HUB DRAIN ACCESSORY. SEE NOTES 5 & 6 (2" THROUGH 4").	---	---	2"	1 1/2"
GREASE INTERCEPTOR	GT-1	BIG DIPPER W-350-IS	35 GPM 85.2 LBS CAPACITY	2.5 GA INTERNAL STRAINER BASKET	---	---	3"	1"
CLOTHES WASHER BOX	CWB-1	GUY GRAY #BB-200	F&I WITH CW & DHW WATER HAMMER ARRESTER	QUARTER TURN 1/2" SWEAT VALVES. STANDPIPE TO BE A MAXIMUM OF 30'.	3/4"	3/4"	2"	1 1/2"

#### NOTES:

- F&I W/ 1/2" WATTS LFMMV-\*\*-M1 TEMPERATURE MIXING VALVE SET AT 110°F OUTPUT.
- SHUT-OFF VALVES ON UPSTREAM SIDE OF CW & DHW LINES ABOVE CEILING.
- BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS W/FLEXIBLE SUPPLIES; Z8700 P-TRAP & Z8746-PC GRID STRAINER.
- Z8946-3-NT ADA TRAP AND ARM W/CLEANOUT AND ESCUTCHEON; AND STOP & SUPPLY PROTECTORS FOR OFFSET GRID STRAINER.
- 5" ROUND TOP, WITH CLAMPING COLLAR, ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY, Z1012-FC DEEP-SEAL TRAP ADJUSTABLE C.I. FLOOR CLEANOUT & PLUG, AND ASSE 1072 APPROVED TRAP SEAL.
- MODEL P2400X GREEN DRAIN WATERLESS TRAP SEAL.
- WITH ACID RESISTANT BODY; NICKEL BRONZE DOME STRAINER; CLAMPING COLLAR; AND NON-TILT LOOSE GRATE WITH 1/2" SQUARE OPENINGS. 1/2 OR 3/4 GRATE AS REQUIRED BY SIZE AND NUMBER OF PIPES DISCHARGING TO UNIT.

### WATER PRESSURE CALCULATION

ASSUMED AVAILABLE STATIC PRESSURE	65.0 PSI
PRESSURE DROP THRU METER	6.0 PSI
PRESSURE DROP @ BACKFLOW PREVENTER	10.0 PSI
AVAILABLE PRESS. ON HOUSE SIDE OF METER	49.0 PSI
ESTIMATED PIPE LENGTH - METER TO BLDG WALL	150 FT
EQUIV. LENGTH - METER TO BUILDING WALL	165 FT
P.D. - METER TO BUILDING WALL @ 6 PSIG/100 FT	9.9 PSI
PRESSURE AVAILABLE AT BUILDING WALL	39.1 PSI
PSI REQ. AT END OF THE LINE	20.0 PSI
PRESS. DROP @ THROUGH WATER HEATER	3.0 PSI
PRESS. DROP DUE TO PIPE ELEVATION CHANGES	4.3 PSI
REMAINING PRESSURE	11.8 PSI
SYSTEM LENGTH	82 FT
EQUIVALENT PIPE LENGTH	135 FT
ALLOWABLE LOSS/100FT OF PIPE: REMAINING PRESS. X 100FT / EQ. LENGTH OF PIPE	8.70 PSI

### FIXTURE UNITS DOMESTIC WATER

FIXTURES	AMNT.	INDIVIDUAL FIXTURE UNITS			CUMMULATIVE FIXTURE UNITS		
		TOT CW	CW PER FIXT	DHW PER FIXT	CW MAIN	CW	DHW
LAVATORY (LV-1)	1	2.0	1.50	1.50	2.00	1.50	1.50
MOP SINK (MS-1,2)	1	3.0	2.25	2.25	3.00	2.25	2.25
HAND SINK (HS-1,2)	2	2.0	1.50	1.50	4.00	3.00	3.00
WATER CLOSET (WC-1)	1	2.0	2.00	-	2.00	2.00	-
CLOTHES WASHER BOX (CWB-1)	1	3.0	2.25	2.25	3.00	2.25	2.25
KITCHEN (KS-1)	1	4.0	3.00	3.00	4.00	3.00	3.00
TOTAL					18.00	14.00	12.00
GPM					18.8	17.0	16.0

#### NOTES AND FIELD CONDITIONS:

- CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF (E) CW PIPE TO BE AS INDICATED THESE DRAWINGS.
- CONTRACTOR TO FIELD VERIFY AVAILABLE PRESSURE AT THE POINT OF CONNECTION (POC) TO THE CW SERVICE. POC TO CW PIPE TO BE AS INDICATED IN THESE PLANS AT THE BUILDING WALL.
- CONTRACTOR SHALL VERIFY ACTUAL WATER PRESSURE AND PIPE LENGTHS PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN OR ACTUAL PIPE LENGTH IS MORE THAN LISTED ABOVE, CONTRACTOR SHALL CONTACT THE ENGINEER FOR PIPE SIZING EVALUATION. IF PRESSURE EXCEEDS 80 PSI, F&I A PRESSURE REDUCING VALVE.

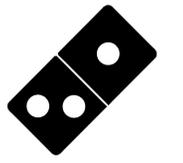
### POTABLE WATER PIPE SIZING

PIPE SIZE (IN)	FLUSH TANK F.U.	FLUSH VALVE F.U.	FLOW (GPM)
1/2	1.2	-	3.3
3/4	4.9	-	9.3
1	12	-	16
1 1/4	29	8	23
1 1/2	60	16	32
2	250	180	58

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/16/2021



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P: 503.552.9079 F: 503.241.7055 WWW.GNICHARCH.COM



Project No: 5401 / Store #1684

Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64138

ISSUED FOR PERMIT: 04.22.2021

REV:	DATE:	DESCRIPTION:

SHEET NAME:  
PLUMBING LEGEND, CALCULATIONS AND SCHEDULES

SHEET NUMBER:  
P1.0

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PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR TO COORDINATE THE WORK REPRESENTED IN THIS SET OF DOCUMENTS WITH ALL TRADES. CONTRACTOR TO FIELD VERIFY CONDITION, LOCATION, SIZE, CAPACITY AND FLOW DIRECTION OF EXISTING SYSTEMS AND COMPONENTS BEING INCORPORATED INTO THE SYSTEMS AS INDICATED IN THESE DOCUMENTS.

ALL PIPE PENETRATIONS THROUGH BURIED STRUCTURAL ELEMENTS SHALL HAVE A PIPE SLEEVE AND SHALL BE MADE WATERTIGHT WITH A MODULAR SEAL SUCH AS LINKSEAL.

UNLESS OTHERWISE NOTED, ALL EQUIPMENT, MATERIAL AND SYSTEM COMPONENTS CONTAINED OR REFERED TO BY THESE DOCUMENTS ARE TO BE CONSIDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

SEE SHEETS P1.0, P5.0 AND MECHANICAL & ARCHITECTURAL DOCUMENTS FOR FURTHER REQUIREMENTS.

FOR PIPE SIZES NOT INDICATED, SEE PLUMBING FIXTURE SCHEDULE ON P1.0.

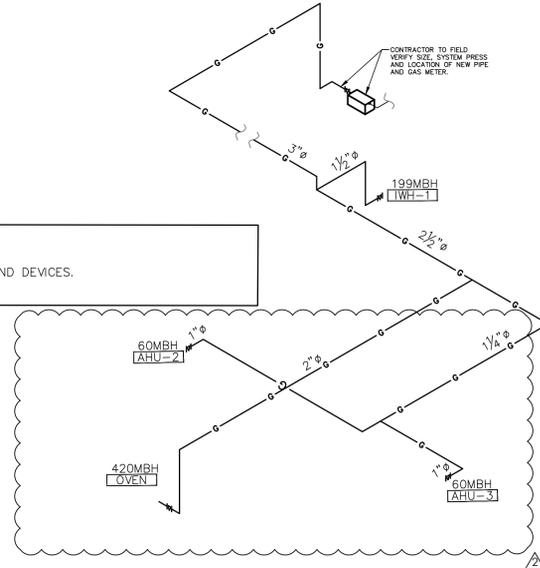
FOR DOMESTIC WATER SYSTEMS ONLY, PEX PIPING IS AN ACCEPTABLE SUBSTITUTION FOR COPPER TUBING UNLESS OTHERWISE NOTED.

### LOW PRESSURE NATURAL GAS CALCULATION

APPLIANCES	PIPE LENGTH (FT)	DEMAND (MBH)
WH-1		199
OVEN		420
AHU-2		60
AHU-3		60
TOTAL		739
PIPE LENGTH FROM DEMISING WALL TO METER/PRV ASSEMBLY	150	
PIPE FITTINGS EQUIV. LENGTH FROM BLDG TO METER/PRV	225	
LENGTH OF PIPE IN TENANT SPACE	58	
EQUIV. LENGTH OF PIPE IN OR ON THE BUILDING	87	
TOTAL EQUIVALENT SYSTEM PIPE LENGTH	312	

- NOTES:
- PIPE SIZING BASED ON 2018 IFGC, TABLE 402.4(1) PIPE SIZING FOR PRESSURE LESS THAN 2 PSI, PRESSURE DROP OF 0.3" W.C. AND SPECIFIC GRAVITY OF 0.60.
  - CONTRACTOR SHALL VERIFY ACTUAL GAS PRESSURE AVAILABLE, PIPE LENGTHS, METER/PRV ASSEMBLY SIZE AND LOCATION PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN LISTED ABOVE, ACTUAL PIPE LENGTH IS MORE THAN LISTED ABOVE, CONTRACTOR SHALL CONTACT THE ENGINEER FOR PIPE SIZING EVALUATION. COORDINATE WITH LOCAL UTILITY.

GENERAL GAS PIPING NOTES:  
A. F&I UNIONS AT ALL VALVES AND DEVICES.

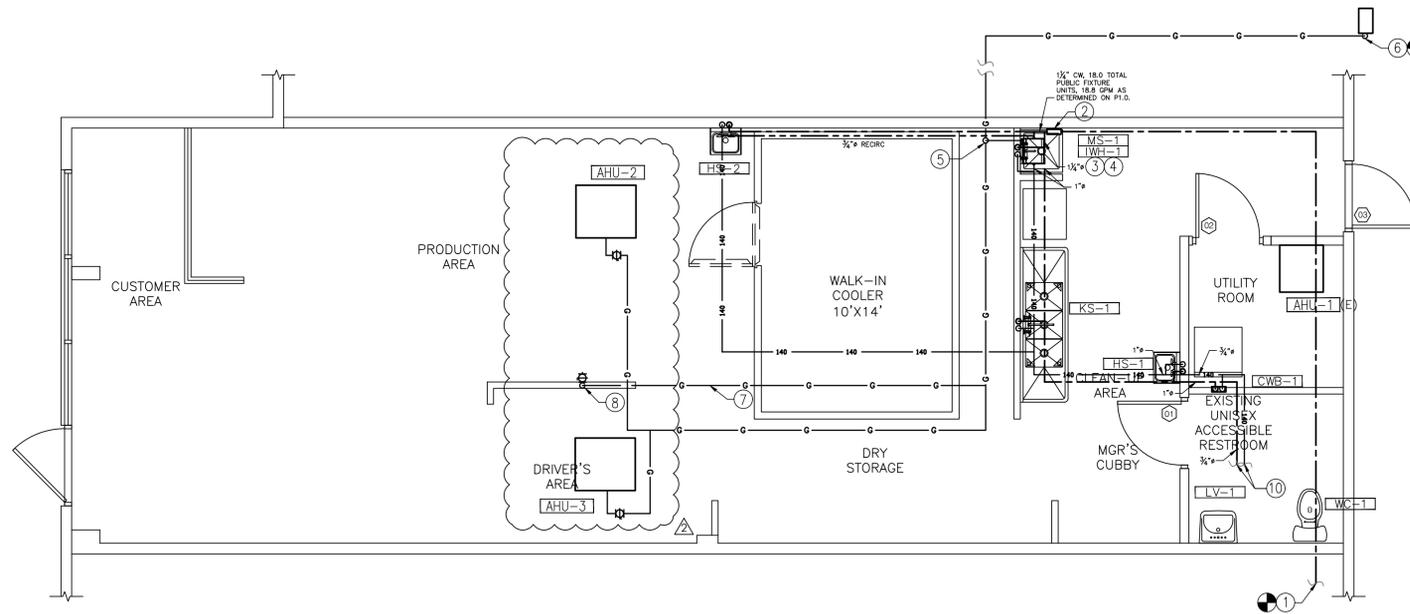


### KEYED NOTES:

- ROUTE COLD WATER PIPING TO CONNECT TO NEW SERVICE WATER PIPING. FIELD VERIFY SIZE, LENGTH OF RUN FROM BUILDING WALL TO METER/PRV ASSEMBLY, CAPACITY, WATER PRESSURE AND LOCATION OF THE METER/PRV ASSEMBLY AND PIPE. ESTIMATED LENGTH OF PIPE FROM THE BUILDING WALL TO THE METER/PRV ASSEMBLY IS SHOWN IN CALCULATIONS ON SHEET P1.0. F&I NEW METER AS REQUIRED.
- F&I WATTS LFO09 BACKFLOW PREVENTER ABOVE MOP SINK. ROUTE RELIEF PIPE TO DISCHARGE ABOVE TO MOP SINK WITH 1" AIR GAP.
- ALL DHW AND 8 FEET OF CW PIPING CONNECTED TO THE WATER HEATER SHALL BE INSULATED WITH 1" THICK INSULATION. INSULATION TO HAVE AN "R" RATING OF R=4.2 FOR PIPE SIZES < 1 1/4". PIPE SIZES > 1" SHALL BE INSULATED WITH 1-1/2" THICK INSULATION HAVING AN "R" RATING NOT LESS THAN R=6.
- SEE MECHANICAL SHEETS FOR VENT & COMBUSTION AIR.
- GAS PIPE UP THRU ROOF. RUN GAS BACK TO GAS METER. SEE GAS PIPING SCHEMATIC DIAGRAM.
- RUN NEW GAS LINE BACK TO NEW GAS METER/PRV ASSEMBLY (METER BANK). FIELD VERIFY SIZE, LENGTH OF RUN FROM THIS POINT TO METER/PRV ASSEMBLY; PIPE AND METER/PRV ASSEMBLY CAPACITY; GAS PRESSURE INLET AND OUTLET OF GAS METER/PRV ASSEMBLY; AND LOCATION OF THE METER AND PIPE. ESTIMATED LENGTH OF PIPE FROM THIS POINT TO METER/PRV ASSEMBLY IS SHOWN IN CALCULATIONS ON SHEET P1.0. CONNECT TO NEW AND/OR EXISTING METER/PRV ASSEMBLY.
- OVEN DEDICATED GAS LINE.
- GAS LINE TO DROP DOWN TO OVEN MANIFOLD.
- NOT USED.
- CONNECT WATER LINES TO EXISTING BATHROOM FIXTURES.

### NATURAL GAS SCHEMATIC DIAGRAM

NO SCALE



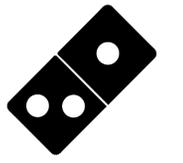
### POTABLE WATER & GAS PLUMBING PLAN

SCALE: 1/4" = 1'-0"

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/16/2021



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Project No: 5401 / Store #1684

Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133

816.501.8388

ISSUED FOR PERMIT:  
04.22.2021

REV: DATE:	DESCRIPTION:
△ 07.15.21	CITY COMMENTS

SHEET NAME:  
**POTABLE WATER & GAS PLUMBING PLAN**

SHEET NUMBER:  
**P2.0**

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SEE SHEETS P1.0, P5.0 AND MECHANICAL & ARCHITECTURAL DOCUMENTS FOR FURTHER REQUIREMENTS.  
FOR PIPE SIZES NOT INDICATED, SEE PLUMBING FIXTURE SCHEDULE ON P1.0.

SANITARY SEWER FIXTURE UNITS			
FIXTURES	AMT.	DWV EA.	SUB-TOTAL (DWVU)
LAVATORY (LV-1)	1	1	1
MOP SINK (MS-1)	1	2	2
HAND SINK (HS-1,2)	2	2	4
WATER CLOSET (WC-1)	1	4	4
FLOOR SINK (FS-1)	1	2	2
CLOTHES WASHER BOX (CWB-1)	1	2	2
KITCHEN (KS-1)	1	2	2
TOTALS	8	17	

**KEYED NOTES:**

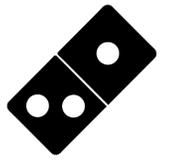
1. ACD PIPE DOWN FROM EQUIPMENT.
2. 3/4" ACD PIPE TYPICAL U.O.N.
3. 1" ACD PIPE.
4. 1 1/4" ACD PIPE.
5. TERMINATE ACD PIPE OVER FS-1 WITH A MINIMUM AIR GAP OF 2X THE DIAMETER DRAINING PIPE.
6. ROUTE SANITARY PIPING TO CONNECT TO EXISTING SANITARY MAIN. VERIFY EXACT LOCATION.
7. 2 1/2" VENT UP THRU ROOF TO 4" VTR. MAINTAIN MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES.
8. GREASE INTERCEPTOR. SEE SHEETS P1 & P4
9. KITCHEN 3-COMP SINK GREASE LINE TO DISCHARGE DIRECTLY TO THE GREASE TRAP.

GREASE TRAP SIZING			
FIXTURE CAPACITY	KITCHEN SINK		
	WIDTH	LENGTH	HEIGHT
	16	21	14
	EFFECTIVE VOLUME (VOL*0.75/231) GALLONS		
	3-COMPARTMENT VOLUME		
2 MINUTE FLOW PERIOD			
TOTAL FLOW THRU GREASE TRAP			

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
07/16/2021



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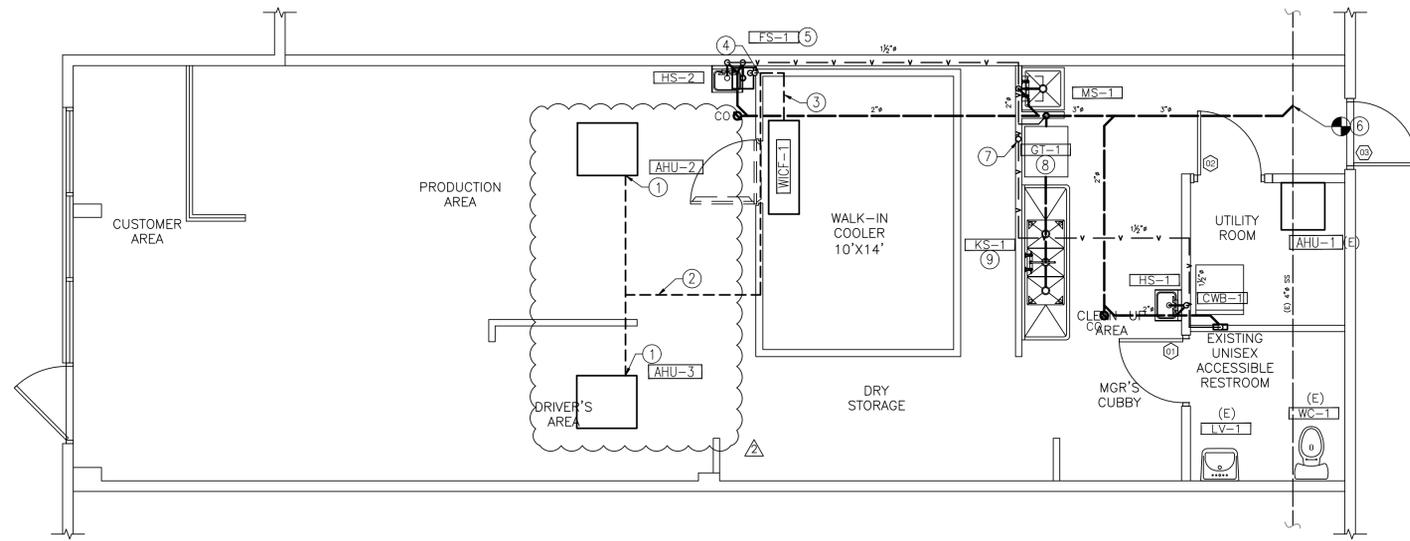
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816.501.8388

ISSUED FOR PERMIT:  
04.22.2021

REV:	DATE:	DESCRIPTION:
Δ	07.15.21	CITY COMMENTS

SHEET NAME:  
**SANITARY SEWER PLUMBING PLAN**

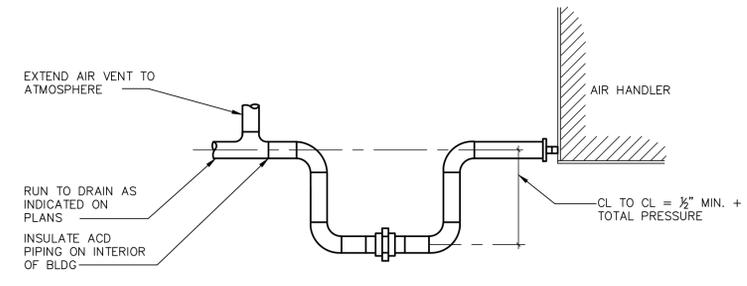
SHEET NUMBER:  
**P2.1**



**SANITARY SEWER PLUMBING FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

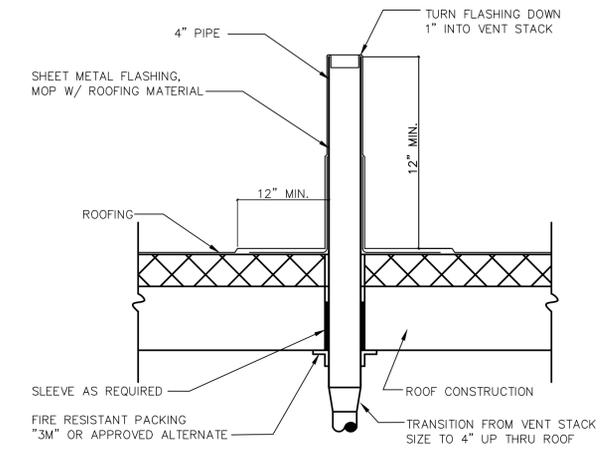
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THE DETAILS ON THIS SHEET ARE STANDARD DETAILS. NOT ALL DETAILS MAY BE RELEVANT TO THIS PROJECT.

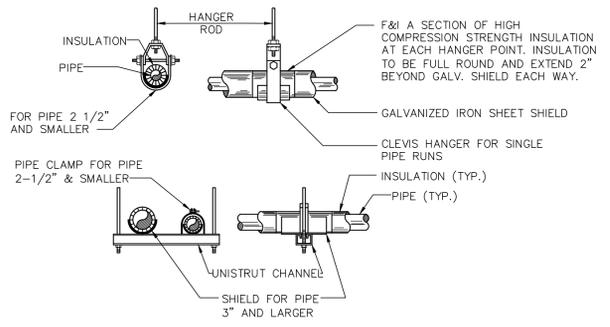


NOTE:  
 DRAIN PIPING TO BE MINIMUM UNIT CONNECTION SIZE. LARGER UNITS (+20 TONS) DRAIN PIPING (1) SIZE AS NOTED ON PLANS.

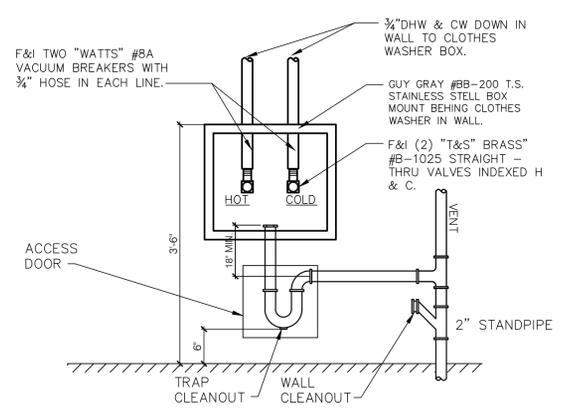
CONDENSATE TRAP DETAIL  
 NO SCALE



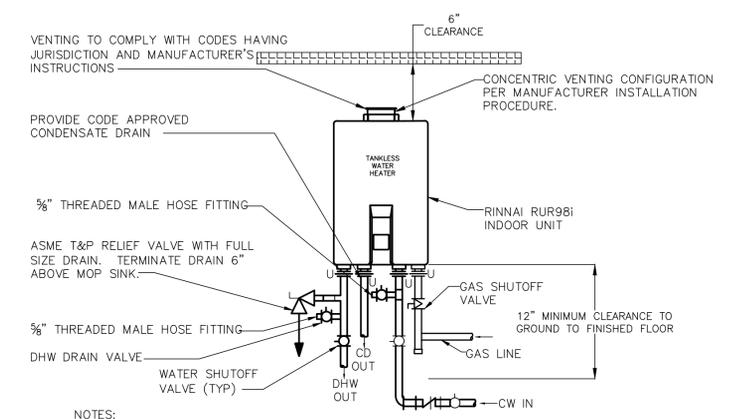
TYPICAL VENT THRU ROOF DETAIL  
 NO SCALE



TYPICAL WATER, DRAIN, WASTE AND VENT PIPE SUPPORT DETAIL  
 NO SCALE

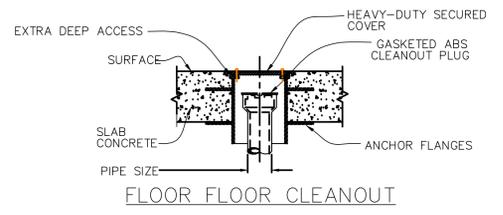


CLOTHES WASHER BOX CONNECTION DETAIL  
 NO SCALE

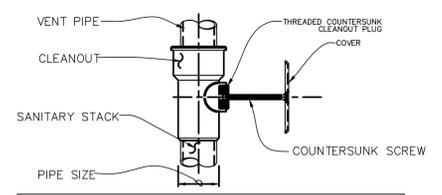


NOTES:  
 SEALED COMBUSTION UNITS (ALL COMBUSTION AIR FROM OUTSIDE OF THE BUILDING)  
 WATER HEATER MUST BE INSTALLED TO CONFORM WITH CURRENT EDITION OF THE MECHANICAL, FUEL GAS, PLUMBING, AND ELECTRICAL CODES; AND THE MANUFACTURER INSTALLATION INSTRUCTIONS.  
 PROTECT HEATER FROM FREEZING  
 CLEARANCE REQUIRED IN FRONT OF THE UNIT IS 6 INCHES.  
 T&P VALVE AND DRAIN PAN DRAIN LINES TO BE RUN TO AN APPROVED INDIRECT WASTE RECEPTOR.

INSTANT DOMESTIC WATER HEATER DETAIL  
 NO SCALE



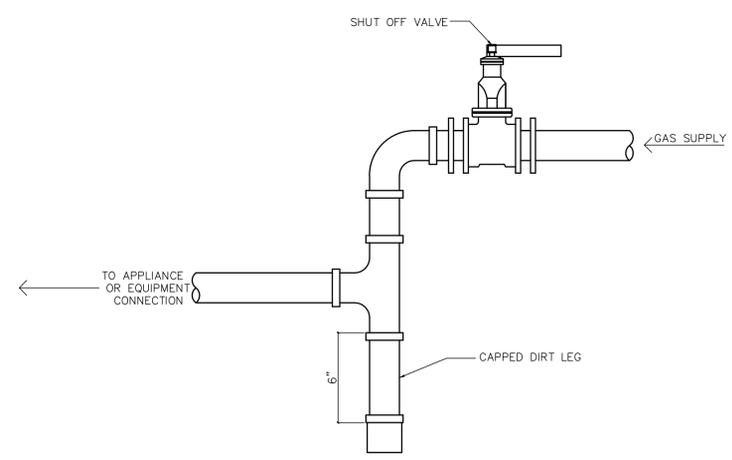
FLOOR FLOOR CLEANOUT



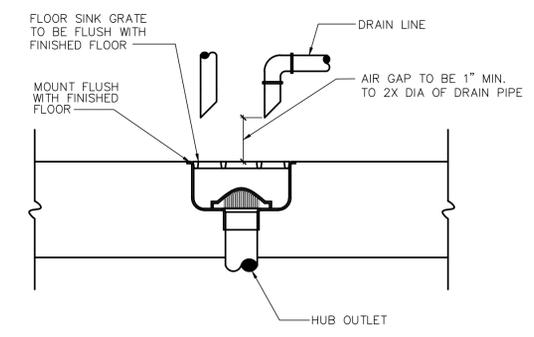
NOTE:  
 1. INSTALL CLEAN OUTS SO BOTTOM IS AT LEAST 7\"/>

CLEANOUT TEE & ACCESS COVER

TYPICAL CLEANOUT DETAILS  
 NO SCALE



GAS EQUIPMENT CONNECTION DETAIL  
 NO SCALE

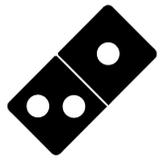


FLOOR SINK DETAIL  
 NO SCALE

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/16/2021



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 Domino's Pizza Bakery Store  
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ISSUED FOR PERMIT:  
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PLUMBING DETAILS

SHEET NUMBER:

P3.0

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**BIG DIPPER**  
A THERMACO Technology

**Big Dipper® IS Point Source Automatic Grease Removal Systems**  
**W-350-IS Specifications**

**PRODUCT FEATURES**

- Fully automatic self cleaning cycle. Removes collected grease & oils from tank without any operator assistance. Comes complete with Digital Control user interface and Grease Collector.
- Constructed of corrosion resistant materials suitable for installation in virtually any location. Attractive sanitary Stainless Steel exterior.
- Integrated Motor/Grease Outlet/Heater/Lid enables a fast, do-it-yourself unit operation reversal.
- Patent Pending Advanced Odor Protection design locks in odors from grease and solids.
- Contact footprint.
- Two (2) No-Hub Connectors provided.

**SPECIFICATIONS**

Construction: Exterior: 304 Stainless Steel, Bright Finish  
Interior: Rotationally Moulded Polyethylene

Electrical: 115 VAC, 50/60 Hz, 1173 Watts (10.2 Amps)\*

Flow Rating: 35 GPM (2.21 l/s)

No. of Skimming Wheels: 1

Skimming Rate: 9 Pounds (4.08 Kg) Per Hour

Grease Retention Capacity: 85.19 Pounds (38.6 Kg)

Internal Solids Strainer Capacity: 2.8 Gallons (9.5 Liters)

Inlet/Outlet: 2" (51 mm)

\*For Additional Electrical Configurations, see Electrical Variations section on page 2.

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**BIG DIPPER**  
A THERMACO Technology

**Big Dipper® IS Point Source Automatic Grease Removal Systems**  
**W-350-IS Specifications**

**INSTALLATION NOTES**

- READ instruction manual included with system before installing/opening.
- Install unit allowing for the minimum clearances shown. Make sure there is sufficient space above Internal Strainer access cover to remove the strainer (minimum of 18.5" (468mm)).
- Make piping connections with rubber "No Hub" connectors.
- Keep outlet piping as straight as possible. Use only "weaver" connections.
- Install vent on outlet piping.
- Fill the tank with water before energizing the power to the motor and heater.
- Do not install 1" Trap on outlet connection of tank (unit already has internal gas trap).
- Do not reduce pipe size on outlet piping.
- Do not pressure test unit.
- Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumbing contractor.

**JOB SPECIFICATION**

Grease and oils separator(s) shall be Thermaco Big Dipper automatic grease/oil recovery system(s) as manufactured by Thermaco, Inc., Asheboro, North Carolina as noted on plans.

**AUTOMATIC GREASE REMOVAL DEVICE SPECIFICATIONS**

Furnish and install \_\_\_\_ Thermaco Big Dipper Model No. W-350-IS, bright finish type 304 stainless steel exterior, rotationally moulded polyethylene interior automatic self-cleaning grease and oil recovery separator(s) for floor mounted or partially recessed installation, rated to ASME A112.14.3 and/or PDI-G 101 standards at 35 gallons per minute (2.21 l/s) peak flow, 129.3 pounds (58.2 kg) of grease capacity and including as an integral part of the unit, 2" (51 mm) inlet/outlet, 1 rotating gear oleophobic hydrophobic skimming wheel assembly for automatic grease/oil removal, flow control device, self-regulating electric immersion heater with thermostatic control, 1" (25mm) vessel vent, integral gas trap, digital control for programmable operation, field reversible motor assembly and grease/oil sump outlet, quick release stainless-steel lid clamps, fully removable integral polymer/904 grade stainless steel lid with magnetic lid tensioners, internal stainless steel strainer basket for collection of coarse solids, polymer wiper blade unit and 8 separate gasketed removable grease and oils collection container with carry handle and pouring spout. Electric assembly shall be tested to comply with pertinent sections of the Standards for Safety ANSI/UL 73 and ANSI/UL 1004. Electric motor equipped with overload protection. Two (2) no-hub connectors for plumbing connection provided.

**ELECTRICAL VARIATIONS**

- W-350-IS: 115V 50/60Hz, 1173 Watts (10.2 Amps)
- W-350-IS-E: 230V 50/60Hz, 1173 Watts (5.1 Amps)

**SUBMITTAL OPTIONS**

- FS-1 Point Source Flat Strainer (3.4 Gallons of additional solids storage capacity), has 2" inlet/outlet connection
- ESU-1 External Strainer (1.16 Gallons of additional solids storage capacity), has 2" inlet/outlet connection
- HAG-3 Horizontal Air Gap Assembly with 2" connection (comes with 3 flow restrictors for sink drains)
- HAG-8A-1 Solids Strainer Baskets for use with HAG-3 Assembly (Specify Quantity based on Number of Sinks: \_\_\_\_)
- SPK-2 Support Frame Kit, stainless steel construction

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## GREASE INTERCEPTOR PRODUCT DATA

NO SCALE

### A. GENERAL NOTES

- DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO ALL PORTIONS OF THE PLUMBING RELATED WORK.
- THE PLUMBING CONTRACTOR (PC) IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW ALL DOCUMENTATION AND DRAWINGS FOR ALL DIVISIONS OF WORK PRIOR TO BEGINNING WORK. THE PC IS RESPONSIBLE FOR THE COORDINATION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY OF THE PC TO FURNISH COMPLETE SETS OF DOCUMENTS THEIR SUBCONTRACTORS.
- THE PC IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS TO COMPLY WITH THE CONSTRUCTION SCHEDULE.
- THE PC SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE PC'S BID. SUBMITTAL OF A BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND THE PERFORMANCE OF ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DOCUMENTS. MODIFICATIONS REQUIRED SHALL BE INCLUDED IN THE BID. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE PC OF THEIR RESPONSIBILITY IN PERFORMANCE OF WORK.

### B. GENERAL REQUIREMENTS:

- THE PC SHALL F&I ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, AND FACILITIES NECESSARY TO F&I A COMPLETE PLUMBING SYSTEM AS INDICATED IN THESE DOCUMENTS AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NECESSARY AND NOT SPECIFICALLY NOTED TO BE F&I BY OTHERS SHALL BE FURNISHED AND INSTALLED / OR COORDINATED BY THE PC.
- ALL WORK SHALL BE PERFORMED IN A NEAT, PROFESSIONAL MANNER USING GOOD CONSTRUCTION PRACTICES AND AS INDICATED BY THESE DOCUMENTS.
- UNLESS OTHERWISE NOTED, MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, TESTED, LISTED AND LABELED IN CONFORMITY WITH REQUIREMENTS OF THE CURRENT CODES AND AS ENFORCED BY THE AUTHORITIES HAVING JURISDICTION (AHJ), WHICHEVER IS MORE STRINGENT.
- ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. THE PC IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS, AS INDICATED BY EQUIPMENT MANUFACTURER'S INSTRUCTIONS, TO ALL EQUIPMENT.
- FIELD MEASURE AND DETERMINE THE ACTUAL FIELD CONDITIONS. FURNISH ALL REQUIRED OFFSETS, ADDITIONAL ELBOWS, SUPPORTS, COMPONENTS, ETC. AS REQUIRED TO INSTALL COMPLETE SYSTEMS.

### C. CODES

- ALL WORK SHALL COMPLY WITH THE CODES AND OTHER STATE, COUNTY, CITY AND LOCAL ORDINANCES, SAFETY AND HEALTH CODES AND NFPA CODES AS INDICATED HEREIN AND AS INDICATED ON SHEET G1.0 OF THESE DOCUMENTS. THE WORK PERFORMED TO CONFORM TO ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THE PC SHALL INCLUDE ANY CHANGES REQUIRED BY THE AHJ IN THEIR BID. IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE OR ORDINANCE ISSUES SHALL BE REIMBURSED TO THE PC.

### D. LICENSES, PERMITS AND INSPECTION FEES

- THE PC SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS AND FEES REQUIRED OR RELATED TO THE PERFORMANCE OF THEIR WORK.
- FURNISH TO THE (OWNER) ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

### E. GUARANTEE

- THE PC SHALL GUARANTEE ALL MATERIALS AND LABOR F&I UNDER THEIR CONTRACT AND SHALL MAKE GOOD, REPAIR DEFECTIVE MATERIALS, EQUIPMENT AND LABOR AT THEIR OWN EXPENSE. ANY DEFECTIVE MATERIAL, EQUIPMENT AND LABOR DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF WRITTEN ACCEPTANCE OF THE WORK, AND AS INDICATED BY THE EXTENDED WARRANTIES FOR THE INDIVIDUAL EQUIPMENT SHALL BE REPAIRED OR REPLACED BY THE PC
- HOT WATER HEATERS SHALL BE FURNISHED WITH A 5 YEAR HEAT EXCHANGER WARRANTY.

### F. PHASING REQUIREMENTS (IF APPLICABLE)

- THE PC SHALL INCLUDE IN THEIR BID ALL NECESSARY SERVICE REQUIRED TO KEEP THE OPERATING PORTION OF THE BUILDING'S (HVAC, PLUMBING AND SPRINKLER) SERVICES IN OPERATION. CONTRACTOR MUST SCHEDULE IN WRITING ONE WEEK PRIOR TO ANY SHUT DOWN OF THE HVAC, PLUMBING OR FIRE PROTECTION) SYSTEMS.
- THE PC IS RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK AND THE RENOVATION WORK. COORDINATE WORK AFFECTING ANY EXISTING EQUIPMENT TO BE LEFT INTACT. THE PC SHALL REMOVE ALL EXISTING FIRE PROTECTION SYSTEMS, PLUMBING FIXTURES, PIPING SYSTEMS, REFRIGERANT SYSTEMS, HVAC SYSTEMS, AND ASSOCIATED ROOF CURBS OR RAILS NOT TO BE REUSED ON THIS PROJECT, UNLESS OTHERWISE NOTED. PC SHALL VERIFY ALL ABANDONED EQUIPMENT TO BE REMOVED (PIPES, DUCTWORK, EQUIPMENT FIXTURES, ETC.) ARE NOT NEEDED BY OTHER PORTIONS OF THE BUILDING PRIOR TO THEIR REMOVAL. REPAIR THE ROOF MEMBRANE WHEN REMOVING ROOF CURBS, EQUIPMENT SLEEPERS, PIPES, DUCTS OR CONDUITS THROUGH THE ROOF.
- ALL EXTRANEIOUS ITEMS IN THE SPACE, ASSOCIATED WITH THE SPACE, OR ON THE ROOF AND NOT APPLICABLE TO THE WORK MUST BE REMOVED AND ROOF/WALL/FLOOR PATCHED/REPAIRED TO MATCH EXISTING SURROUNDINGS. EXISTING ABANDONED (PIPES, DUCTS OR EQUIPMENT) IN THE FLOOR, EMBEDDED IN CONCRETE, OR OTHERWISE INACCESSIBLE TO BE CUT OFF AND SEALED BELOW THE FLOOR OR WALL SURFACE, OR WITHIN THE FLOOR OR WALL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT.
- ABANDONED PIPING AND/OR DUCTWORK MUST BE REMOVED BACK TO IT'S POINT OF ORIGIN.
- CONFIRM THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSAL.

### G. SLEEVE

- THIS CONTRACTOR SHALL F&I PIPE SLEEVES. SLEEVES SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL/PARTITION OR ROOF. SLEEVES THROUGH WALLS AND PARTITIONS SHALL BE CUT FLUSH WITH EACH SURFACE. SLEEVES PENETRATING FLOORS SHALL EXTEND 2" ABOVE THE FLOOR. SLEEVES PENETRATING ROOFS SHALL EXTEND 4" ABOVE ROOF SURFACE.
- PC SHALL COORDINATE ANY CORE DRILLING OR CUTTING OF OPENINGS IN MASONRY FLOORS OR WALLS.
- ALL SLEEVES AND OPENINGS THROUGH FIRE-RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR APPROVED ALTERNATE. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.

### H. HANGERS

- F&I HANGERS AND SUPPORTS FOR ALL PIPING AND EQUIPMENT IN ACCORDANCE WITH SMACNA, MSS, ASME, AND ASHRAE STANDARDS.
- HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
- HANGERS SHALL BE FASTENED TO BUILDING STEEL/STRUCTURE, CONCRETE OR MASONRY. HANGING FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORDS OF BAR JOISTS WHERE INTERFERENCES OCCUR. THE PC SHALL INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, MAINTENANCE REQUIREMENTS AND OTHER EQUIPMENT.
- HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6" LONG SPLIT CIRCLE GALVANIZED SADDLE BETWEEN THE HANGER AND THE PIPE INSULATION. F&I HIGH DENSITY INSULATION INSERT BETWEEN THE SADDLE AND THE PIPE.
- HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED.

### I. DIRT AND DUST CONTROL

- PROTECT AREAS ADJACENT TO THE WORK BEING PERFORMED. SCREEN OFF ALL AREAS WHERE CONSTRUCTION IS TO TAKE PLACE FROM THE AREAS TO REMAIN INHABITED. INHABITED AREAS SHALL REMAIN DUST AND DEBRIS FREE DURING CONSTRUCTION.
- CLEAN ALL AREAS OUTSIDE DESIGNATED CONSTRUCTION AREA WHICH MAY HAVE BECOME SOILED DUE TO CONSTRUCTION.

### J. EQUIPMENT, PIPING, INSULATION AND INSTALLATION

- REFER TO PLANS FOR SCHEDULES OF EQUIPMENT AND FIXTURES. AMERICAN STANDARD, KOHLER AND CRANE ARE CONSIDERED ACCEPTABLE AS EQUALS.
- MAINTAIN A MINIMUM CLEARANCE OF 6" BETWEEN PLUMBING PIPING AND EQUIPMENT AND ALL FIRE/SMOKE RATED WALLS.

- INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL UNITS LEVEL AND PLUMB, AT RIGHT ANGLES TO THE STRUCTURE. FIRMLY ANCHORED UNITS IN LOCATIONS INDICATED BY THE DOCUMENTS.
- PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED WITH INSULATED FITTINGS.
- FIELD VERIFY CONNECTION POINTS PRIOR TO SUBMITTING BID AND NOTIFY ENGINEER IF CONDITIONS ARE NOT AS SHOWN ON THE PLANS OR AS STATED IN THE SPECIFICATIONS. CONTRACTOR SHALL VERIFY THE OPERABILITY OF ENTIRE SYSTEM PRIOR TO TIE-IN AS FOLLOWS:
  - SNAKE SANITARY FOR A DISTANCE OF 100 FEET AND REPORT ANY BLOCKAGE.
  - TEST WATER PRESSURE TO INSURE MINIMUM PSI MATCHES MOST DEMANDING EQUIPMENT SUPPLIED.
- INSULATE THE TRAP, SANITARY AND SUPPLY PIPES UNDER LAVATORIES WITH TRUEBRO MODEL 102W "HANDI LAV GUARD" INSULATION KIT OR EQUAL.
- INSULATE AIR CONDITIONING CONDENSATE DRAIN LINES BELOW THE ROOF. INSULATION TO BE 3/4" THICK CLOSED CELL CONTINUOUS TUBE INSULATION BY AEROFLEX. CLOSURE SYSTEM AS RECOMMENDED BY THE MANUFACTURER.
- INSTALL ALL NECESSARY PIPE HANGERS, SADDLES, AND CARRIERS TO PROPERLY SUPPORT ALL PIPING AND FIXTURES. HANGERS SHALL SUIT TYPE OF PIPING F&I AND BE SPACED AT A MAXIMUM SPAN OF 5 FEET.

### K. POTABLE WATER PIPING

- POTABLE WATER PIPING SHALL BE AS FOLLOWS:
  - BELOW GRADE: TYPE 'K' ANNEALED COPPER TUBE. FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL JOINTS.
  - ALL OTHER: TYPE 'L' DRAWN TEMPERED COPPER TUBE WITH WROUGHT COPPER FITTINGS AND 95-5 TIN-ANTIMONY SOLDER.
- INSULATE ALL HOT AND COLD WATER PIPING WITH MINIMUM 1" THICK (K=0.23 @ 75°F) OR MORE AS MAY BE REQUIRED BY LOCAL CODES. FIBERGLASS PIPE INSULATION SHALL HAVE AN ALL SERVICE JACKET. MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- STERILIZE WATER SYSTEM IN ACCORDANCE WITH LOCAL CODES.
- TEST ENTIRE PLUMBING SYSTEM IN ACCORDANCE WITH THE CURRENT PLUMBING CODE.
- F&I WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN A MAXIMUM WATER SERVICE PRESSURE ENTERING THE BUILDING AT 80 PSIG.
- IF APPLICABLE, F&I METER AND REMOTE READER PER LOCAL UTILITIES REQUIREMENT.
- VALVES: F&I BALL VALVE NIBCO SERIES 585-70 FOR SHUT-OFF VALVES.
- F&I ACCESS PANELS WHERE REQUIRED FOR OPERATION, MAINTENANCE AND BALANCING OR PLUMBING EQUIPMENT.
- F&I WATER HAMMER ARRESTORS AT EACH QUICK CLOSING VALVE AND AS OTHERWISE INDICATED IN THESE DRAWINGS.

### L. SANITARY, WASTE, DRAIN AND VENT (DWV) PIPING

- CONDENSATE DRAIN: F&I POLYVINYL CHLORINE (PVC) TYPE DWV, SCHEDULE 40 PLASTIC PIPE IN CONFORMANCE WITH STANDARD ASTM D2665.
- BELOW GRADE DWV PIPING: ALL MATERIAL SHALL BE DWV QUALITY CAST IRON, COPPER, PVC OR ABS PIPING.
- PRESSURE DWV PIPING: ALL MATERIAL SHALL BE DWV QUALITY CAST IRON.
- ABOVE GRADE, IN CABINTRY, WALLS, ETC. SHALL BE DWV QUALITY CAST IRON, COPPER, PVC OR ABS PIPING.
- VENTS THROUGH ROOF (VTR): MATERIAL SHALL BE DWV QUALITY CAST IRON PIPE.

### M. GAS PIPING

- FURNISH AND INSTALL A COMPLETE GAS PIPING SYSTEM.
- GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-53, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER.
- CORRUGATED STAINLESS STEEL TUBING SHALL BE LISTED IN ACCORDANCE WITH ANSI/CSA 6.26.
- VENT PIPING AND FITTINGS USED TO CONNECT TO REMOTE VENT TERMINALS SHALL CONFORM TO ANSI/UL 651.
- CONCEALED PIPING INSTALLED IN SOLID PARTITIONS, WALLS FLOORS OR CEILINGS SHALL BE INSTALLED IN CHASES OR CHANNELS WHICH HAVE COVERINGS TO ALLOW ACCESS TO THE PIPING.
- GAS PIPING TO SHALL ENTER THE BUILDING THROUGH AN EXTERIOR WALL ABOVE GRADE. THE PIPE AT THE PENETRATION SHALL BE PROTECTED AGAINST CORROSION BY AN INERT PIPE WRAP OR SLEEVE. IF A SLEEVE IS USED, THE ANNULAR SPACE BETWEEN THE SLEEVE & PIPE SHALL BE SEALED.
- FOR LP, GAS PIPES, ISOLATE ABOVE GROUND PIPE FROM BELOW GROUND PIPE WITH AN APPROVED DIELECTRIC FITTING. DIELECTRIC FITTING TO BE PLACED ABOVE GROUND.
- ALL EXTERIOR GAS PIPING SHALL BE MOUNTED A MINIMUM OF 3.5" ABOVE THE SURFACE BEING RUN UPON (ROOF, GROUND, ETC.).
- FURNISH AND INSTALL A GAS COCK, DIRT LEG, AND UNION CONNECTION AT EACH PIECE OF EQUIPMENT.
- SUPPORT PIPING EVERY 5 FEET OR AS DICTATED BY LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- ALL EXPOSED EXTERIOR GAS PIPING SHALL BE PAINTED WITH RUST-INHIBITING PAINT.
- GAS PIPING INSTALLED IN RETURN AIR PLENUMS SHALL BE SLEEVED AND VENTED OR WELDED IN ACCORDANCE WITH THE LOCAL GAS COMPANY, LOCAL CODE AND APPLICABLE NFPA 54 CODES.
- TESTING AND PURGING OF GAS PIPING SHALL BE DONE PER THE REQUIREMENTS OF THE LOCAL GAS COMPANY, LOCAL CODES AND APPLICABLE NFPA CODES.
- CONTACT AND COORDINATE GAS SERVICE, METER AND REGULATOR REQUIREMENTS WITH THE LOCAL GAS COMPANY PRIOR TO BID. INCLUDE INSTALLATION COST OF GAS METER AND REGULATOR IN BID.

### I. LABELS/PIPE MARKERS

- FURNISH AND INSTALL PIPE IDENTIFICATION MARKERS ON ALL PIPES INSTALLED UNDER THIS CONTRACT. MARKERS SHALL BE A MINIMUM OF 1-1/2" X 8" AND IDENTIFIED IN ACCORDANCE WITH THE BACKGROUND AND LETTER COLORS ISSUED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). MARKERS SHALL BE MANUFACTURED BY CHAMPION AMERICA INC., BRADY, SETON, OR EQUAL.

- PIPING SHALL BE IDENTIFIED AS FOLLOWS: POTABLE WATER, HOT WATER, VENT, SEWER, CONDENSATE, REFRIGERANT LIQUID, REFRIGERANT SUCTION, AND DIRECTIONAL ARROWS. ALL IDENTIFICATIONS MUST BE VISIBLE AT EQUIPMENT.

### J. STEEL FRAMING FOR SUPPORT

- F&I ALL NECESSARY STEEL FRAMING REQUIRED TO INSTALL ALL HVAC EQUIPMENT AS DESCRIBED OR IMPLIED ON THE DRAWINGS. ALL PENETRATIONS OF EXISTING STRUCTURE SHALL BE DONE AT THIS CONTRACTOR'S EXPENSE.

### 11. SYSTEM START-UP

- THIS CONTRACTOR SHALL INCLUDE AS A BASE, 2-HOURS OF START-UP TIME PLUS AN ADDITIONAL 2-HOURS OF START-UP TIME PER HVAC UNIT SHOWN ON DRAWINGS.

### L. FINAL INSPECTIONS

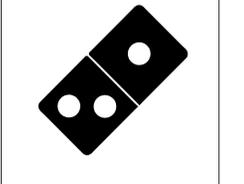
- ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN PLACE, THE ENGINEER SHALL BE NOTIFIED (IN WRITING) TO INSPECT THE FINISHED INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODES. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL ITEMS REPORTED BY THE ENGINEER INTO COMPLIANCE.

### M. PROJECT CLOSEOUT DOCUMENTATION

- AS PART OF THE PROJECT CLOSEOUT, FURNISH THE OWNER WITH A COMPLETE SET OF OPERATION & MAINTENANCE MANUALS. FURNISH MANUALS ON ALL SYSTEM COMPONENTS. AS A MINIMUM, MANUALS TO CONTAIN INFORMATION ON THE MAKE AND MODEL NUMBERS OF ITEMS AND MAINTENANCE SCHEDULE LISTING MANUFACTURER'S SUGGESTIONS ON THE FREQUENCY OF REQUIRED SERVICE ITEMS FOR ALL COMPONENTS.



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**Project No: 5401 / Store #1684**  
Domino's Pizza Bakery Store  
Pizza Theater Tenant Improvement  
3544 SW Market St., Lee's Summit, MO 64082  
for DESZ Management LLC dba Domino's  
3901 Blue Ridge Cutoff  
Kansas City, MO 64133  
816.501.8388

ISSUED FOR PERMIT:  
04.22.2021

REV:	DATE:	DESCRIPTION:

SHEET NAME:

PLUMBING SPECIFICATIONS AND DETAILS.

SHEET NUMBER:

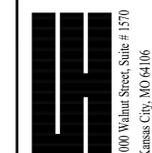
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07/16/2021



RALPH C. JONES  
MO PE-22413

STRUCTURAL ENGINEERING ASSOCIATES  
Phone: 816.421-1042



1000 Walnut Street, Suite # 1570  
Kansas City, MO 64106  
Missouri Certificate of Authority: 000396

DOMINO'S PIZZA BAKERY STORE  
NEW AIR HANDLING UNITS  
3544 MARKET ST.  
LEE'S SUMMIT, MO. 64082

DRAWN BY  
LGC  
CHECKED BY  
RCJ  
JOB NO.  
2021034  
DATE  
07/09/2021

REVISIONS:

SO

THE ACCOMPANYING PROFESSIONAL SEAL INDICATES THAT THE PERSON WHOSE NAME APPEARS ON THE SEAL HAS PREPARED OR SUPERVISED PREPARATION OF THE DOCUMENT ON WHICH THE SEAL APPEARS. THAT PERSON AND THE FIRM FOR WHICH THEY ARE EMPLOYED DISCLAIM RESPONSIBILITY FOR ANY PORTIONS OF THE WORK ON WHICH THEIR SEAL DOES NOT APPEAR.

GENERAL NOTES

A. GENERAL

1. The existing conditions indicated on the Drawings are based on surveys made by the consultant(s) as well as on material provided by the Owner and no claim is made as to its absolute completeness and/or accuracy. Prior to the start of construction operations, field-verify existing conditions and dimensions pertaining to this Contract. Notify the Engineer immediately of any discrepancies found at the site in relation to the information provided on the Drawings.
2. The Owner or his Representative reserves the right to inspect any material, fabrication, or workmanship at any time in field or shop for conformance to the Specifications and Drawings.
3. All details and sections are intended to be typical and shall be construed to apply to any similar situation elsewhere, except where a different detail is shown.
4. Do not scale drawings.

B. DESIGN

1. Codes, specifications and standards (latest editions, U.N.O.)
  - a. All design and construction shall conform to the International Building Code (2018) as amended and adopted by the City of Lee's Summit, Missouri.
  - b. All construction shall comply with the provisions of the following codes, specifications and standards, as referenced in the general building code, except where noted to the contrary on drawings and specifications or where more stringent requirements are specified or shown:
 

AISC 360	"Specifications for Structural Steel Buildings"
ASCE 7	"Minimum Design Loads and Associated Criteria for Buildings and Other Structures"
AISI	"Specifications for the Design of Cold-Formed Steel Structural Members"
AWS D1.1	"Structural Welding Code - Steel"
2. Design Loads:
  - a. Roof - Snow (incl. rain on snow)
    - P<sub>f</sub> = 20 psf
    - C<sub>e</sub> = 0.9
    - I = 1.00
    - C<sub>t</sub> = 1.00
  - b. Roof Live Load, RLL
    - Ordinary flat 20 psf
  - c. Mechanical Units
    - Hood 750 lbs
    - Furnace 132 lbs
    - Evaporator Coil 50 lbs
    - Exhaust Fan 50 lbs
  - d. Roof Design Dead Loads:
    - Roof Deck, Roofing, and Insulation 9.2 psf
    - Z Purlin 0.8 psf
    - Total 10 psf
  - e. Structural steel shall be designed to resist an overhead Hood (Manufactured by AVI: Model 3255), and AHUs (Manufactured by LENNOX: Evaporator Coil: CX35-36B-F & Furnace: ML193UH070XE36B)

C. STRUCTURAL STEEL

1. Qualifications for Welding Work:
  - a. Perform all welding by a certified welder.
  - b. Qualify welding processes and welding operators in accordance with AWS "Standard Qualification Procedure".
  - c. Provide certifications per AWS D1.1. Verify the period of effectiveness of per AWS D1.1 Qualifications
  - d. If recertification of welders is required, retesting will be Contractor's responsibility.
2. Structural steel: ASTM A 992 - wide flange sections, ASTM A 36 - shapes and plates.
3. Beam and column connections shall be as shown on plans. If not specified, use a standard series connection using 3/4 in. dia. bolts capable of carrying a reaction equal to W<sub>c</sub>/(Lx2) shall be used. Do Not use one-sided or other eccentric connections, except in isolated cases where approved or detailed by the Structural Engineer.
4. High Strength Bolts (steel-to-steel connections): ASTM F3125 Grade A325N, load indicator bolts.
  - a. Tighten all connection bolts to the tension shown in Table 8.2 of the AISC "Specification for Structural Joints using High Strength Bolts" unless noted otherwise. Tighten bolts by the turn-of-nut method or calibrated wrench method.
  - b. Bolts tightened by the turn-of-nut-method shall have the outer face of the nut match marked with the protruding bolt point before final tightening by a method which will be readily visible after the bolts are tightened.
  - c. Bolts tightened by the calibrated wrench method shall have a hardened washer under the element turned in tightening.
5. Welded connections: AWS Standards and Specifications using E70xx electrodes, unless noted otherwise.
6. Do not flame cut holes or enlarge holes by burning.
7. Set structural frames accurately to lines and elevations indicated. Align and adjust various members forming a part of a complete frame or structure before permanently fastening. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
8. Clean bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces.
9. Immediately after surface preparation, apply structural steel primer point in accordance with manufacturer's instructions and at a rate to provide a uniform dry film thickness of 2.0 mils. to all structural steel. Use painting methods which result in full coverage of joints, corners, edges, and exposed surfaces.
10. Provide 4" x 4" x 1/4" angles as required around openings.

D. CONSTRUCTION

1. See mechanical requirements for embedded items not shown herein and to verify size and location of all openings.
2. Coordinate the sizes and locations of all miscellaneous metal items required for mechanical and electrical.
3. Weld structural necessary structural members prior to cutting the roof for openings.
4. During welding or any other construction activity that generates sparks or intense heat, the Contractor shall provide adequate fire protection to the existing structure and contents. At a minimum provide the following:
  - a. Remove combustible materials from areas of welding and sparks.
  - b. Provide fire proof blankets and shields to contain sparks where combustible materials cannot be removed.
  - c. Provide a fire safety observer with multiple fire extinguishers on both the roof and below the roof during welding near the roof structure as well as both sides of demising walls.
  - d. Maintain fire watch for a period of 4 hours after welding is completed.

E. SPECIAL INSPECTION

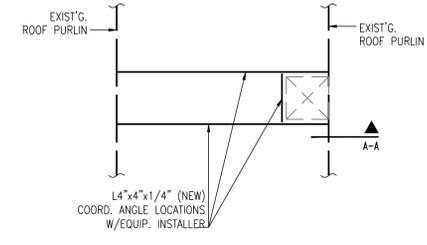
1. The following inspection shall be performed by an independent inspection agency employed by the owner and approved by the structural engineer and the building official. Inspection reports shall be submitted to the structural engineer and building official. Special inspection shall conform to Chapter 17 of the 2018 International Building Code, as well as conforming to the items listed below.
 

Special Inspection requirements:	Continuous	Periodic
----------------------------------	------------	----------
2. Structural steel
  - a. Material verification - structural steel, high-strength bolts, nuts, washers. X
  - b. Inspection of high-strength bolting X
  - c. Inspection of high-strength bolting X
    - 1) Single pass fillet welds <5/16".

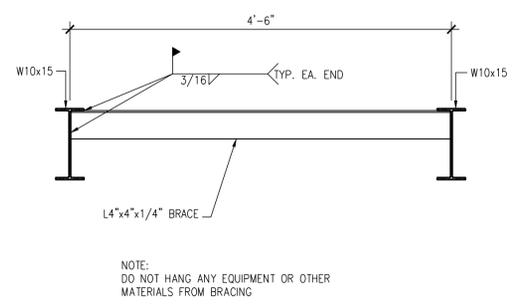
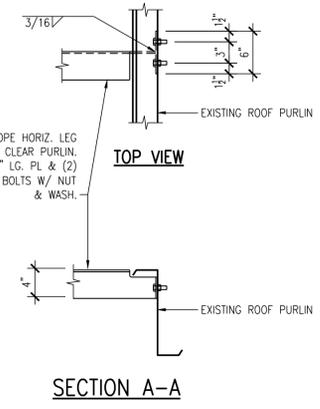


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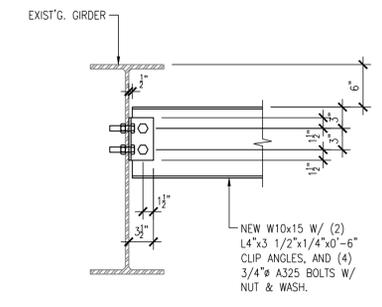
THE ACCOMPANYING PROFESSIONAL SEAL INDICATES THAT THE PERSON WHOSE NAME APPEARS ON THE SEAL HAS PREPARED OR SUPERVISED PREPARATION OF THE DOCUMENT ON WHICH THE SEAL APPEARS. THAT PERSON AND THE FIRM FOR WHICH THEY ARE EMPLOYED DISCLAIM RESPONSIBILITY FOR ANY PORTIONS OF THE WORK ON WHICH THEIR SEAL DOES NOT APPEAR.



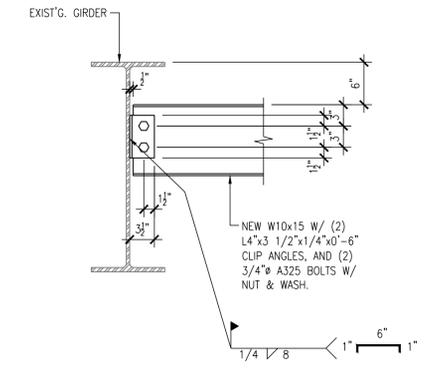
**2 ROOF PENETRATION**  
1/2" = 1'-0"



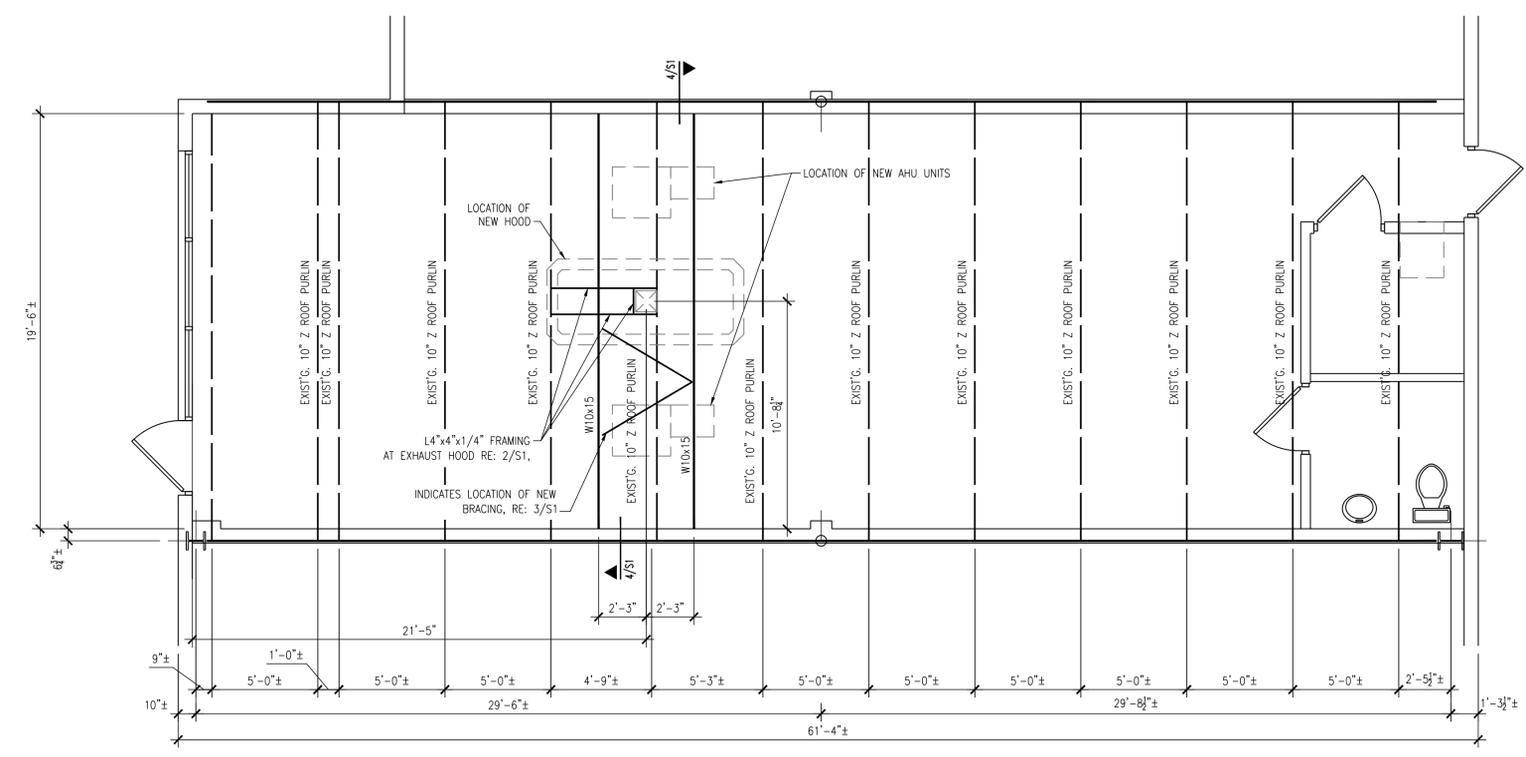
**3 BRACING CONNECTION TO FLANGE OF BEAM**  
1" = 1'-0"



**4 NEW BEAM TO EXISTING GIRDER CONNECTION**  
1" = 1'-0"



**4 OPTIONAL BEAM TO GIRDER CONNECTION**  
1" = 1'-0"



**1 AIR HANDLING UNIT PLAN**  
1/4" = 1'-0"



DOMINO'S PIZZA BAKERY STORE  
NEW AIR HANDLING UNITS  
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REVISIONS:

S1