PROJECT INFORMATION

Zoning:	Commercial	General Contractor:	Arrant Construction Inc
Construction Type:	II-B		info@arrantconstruction.com
Building Use:	Retail		8008951296
Building Area:	1100 (sq. ft.)		
Occupancy Type:	Group A-2		
Occupant Load:	25		
Exits Required:	1		
Exits Provided:	2		
Fire Sprinkler:	NO		

SCOPE OF WORK

The Scope of work for Ajeena Mediterranean Bakery and Coffee shop.

Demolition: Removal of existing interior non-load bearing walls, finishes, and fixtures within the 1,100 SF tenant space. No structural modifications to shell building.
New Layout: Construction of new partitions to create restroom, storage room, kitchen, bar/service area, and customer seating area.
MEP Work:
Mechanical: Installation of new HVAC ductwork, exhaust hood (as required by kitchen equipment), and ventilation per code.
Electrical: New lighting, power outlets, and dedicated circuits for kitchen equipment; modifications to existing service as needed.
Plumbing: New restroom and kitchen plumbing fixtures; relocation of drains, water supply, and grease trap as required.
Finishes: Installation of new flooring, ceiling, wall finishes, and millwork.
Life Safety / Code Compliance: Installation of exit signs, emergency lighting, and fire protection systems per City of Richardson and applicable codes.
Accessibility: Restroom and customer areas designed per 2021 IBC / 2012 TAS.

APPLICABLE CODES

- 2021 International Building Code (IBC) with local amendments
- 2021 International Existing Building Code (IEBC) with local amendments
- 2021 International Fire Code (IFC) with local amendments
- 2021 International Mechanical Code (IMC) with local amendments
- 2021 International Plumbing Code (IPC) with local amendments
- 2021 International Fuel Gas Code (IFGC) with local amendments
- 2021 International Energy Conservation Code (IECC) with local amendments
- 2020 National Electrical Codes (NEC)
- 2012 Texas Accessibility Standards (TAS)
- City of Richardson Comprehensive Zoning Ordinance (CZO)

PARKING ANALYSIS

- Project: Mediterranean Bakery & Coffee shop
- Address: Suite 109, 515 W Campbell Rd, Richardson, TX 75080, USA
- Area: 1100 sqft
- Use Classification: Parking Requirement: 1 space per 300 SF
- Required Spaces: 1,100 ÷ 300 = 3.6 → 4 spaces
- Provided Spaces: Shared retail center parking = 62 spaces

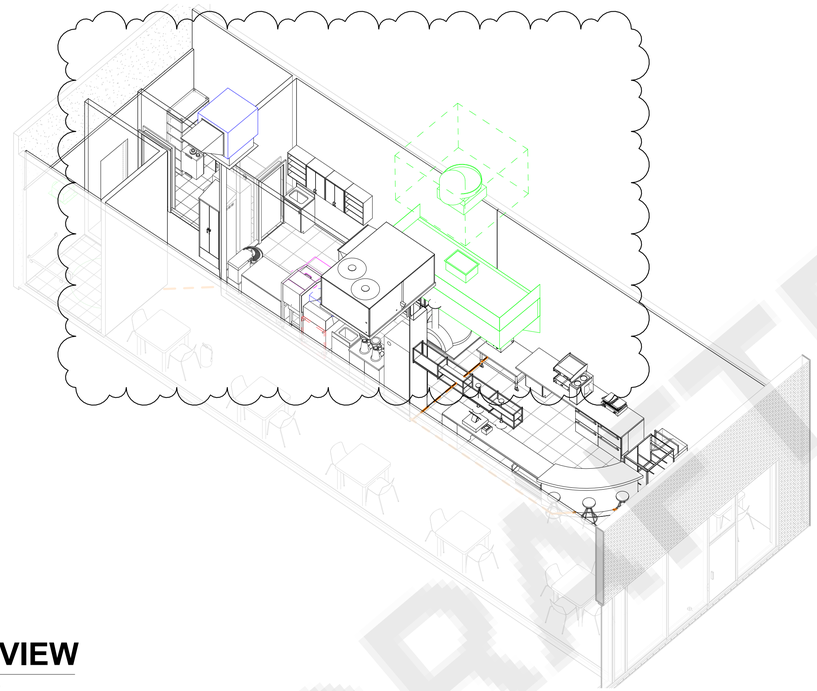
OCCUPANT LOAD CALCULATION (per IBC 2021, Table 1004.4)

Occupant Load Calculation (per IBC 2021, Table 1004.4) Fixed Seating:

• Seating Count:		= 14 per seat
• Serving/Bar Counter:	39 SF / 5	= 8
• Kitchen/Prep Area:	392 SF / 200	= 2
• Dry Storage/Office:	72 SF / 150	= 1
• Total Occupant Load = 25 persons		

Ajeena Mediterranean Bakery and Coffee Shop

515 W Campbell Rd, Richardson, TX 75080, USA



1 **3D VIEW**
Scale:

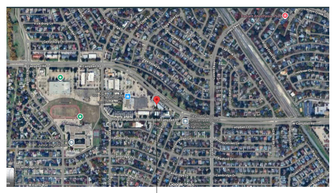
SHEET INDEX

Sheet Number	Sheet Name
A-0.0	COVER SHEET
A-0.00	Fire Safety Plan
A-0.1	ADA COMPLIANCE
A-0.2	ADA COMPLIANCE
A-0.2A	COM CHECK
A-0.2B	COM CHECK
A-0.2C	HAP REPORT
A-0.2D	HAP REPORT
A-0.3	SITE PLAN
A-0.3A	SITE PLAN & LOTS INFO
A-1.0	FLOOR PLAN
A-1.1	FOOD EQUIPMENT PLAN
A-1.2	EQUIPMENT SCHEDULE
A-1.3	EQUIPMENT SCHEDULE
A-1.4	FLOOR & CEILING FINISHES PLAN
A-2.1	BUILDING ELEVATION
A-3.1	BUILDING SECTION
A-4.1	SERVING & BAR AREA ELEVATION
A-4.2	KITCHEN AREA ELEVATIONS
A-4.3	INTERIOR ELEVATIONS
A-4.4	INTERIOR ELEVATIONS
A-4.6	INTERIOR ELEVATIONS
A-5.1	3D VIEWS
A-6.0	DOOR & WINDOW & DETAILS
E-0.1	GENERAL NOTES & PANEL SCHEDULE & SINGLE LINE DIAGRAM
E-0.2	FINISHED FLOOR LIGHTING PLAN
M-100	MECHANICAL GENERAL NOTES
M-101	MECHANICAL PLAN
M-102	CAPTIVEAIR SHOP DRAWING
M-103	CAPTIVEAIR SHOP DRAWING
M-104	CAPTIVEAIR SHOP DRAWING
M-105	CAPTIVEAIR SHOP DRAWING
M-106	CAPTIVEAIR SHOP DRAWING
M-107	CAPTIVEAIR SHOP DRAWING
M-108	CAPTIVEAIR SHOP DRAWING
M-109	CAPTIVEAIR SHOP DRAWING
M-110	CAPTIVEAIR SHOP DRAWING
M-111	CAPTIVEAIR SHOP DRAWING
M-112	CAPTIVEAIR SHOP DRAWING
P-100	PLUMBING CALCULATIONS & GENERAL NOTES
P-101	PLUMBING CALCULATIONS & GENERAL NOTES
P-101 A	GREASE INTERCEPTOR SHOP DRAWING
P-102	GAS SUPPLY PLAN
P-103	PLUMBING RISER DIAGRAM
P-104	PLUMBING DETAILS
S-100	RTU STRUCTURAL DETAILS

GENERAL NOTES

1. All work shall comply with 2021 IBC, IEBC, IFC, IPC, IMC, 2020 NEC, and City of Richardson amendments.
2. Project scope includes interior non-structural demolition and remodel of ~1,100 SF tenant space into a bakery with new restroom, kitchen, storage, and seating/bar area.
3. Scope also includes façade modifications (new storefront/glazing/finishes as shown on drawings).
4. No changes to the building's primary structural system or overall footprint are proposed.
5. Mechanical, Electrical, and Plumbing (MEP) systems to be modified as required for new layout and equipment; work to be completed by licensed trades.
6. Fire protection, life safety, and accessibility requirements shall comply with 2021 IBC, 2021 IFC, and 2012 TAS.
7. Contractor shall verify all existing conditions and dimensions on site prior to construction.
8. All new materials and assemblies shall be listed, labeled, and installed per manufacturer's specifications.
9. Deferred submittals (e.g., kitchen hood, fire suppression, signage, storefront system) shall be submitted for AHJ approval prior to installation.

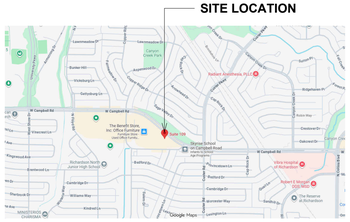
LOCATION MAP



SITE LOCATION

VICINITY MAP

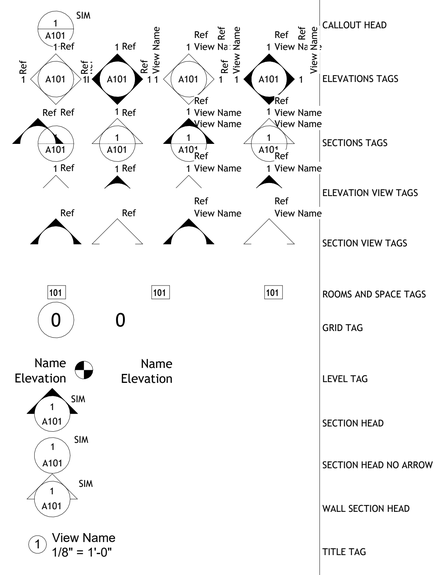
SITE LOCATION



ABBREVATIONS

#	Pound OR Number
&	And
@	At
ACT	Acoustic Ceiling Tile
AD	Area Drain
AFF	Above Finished Floor
ALUM	Aluminum
ANOD	Anodized
BSMT	Basement
BYND	Beyond
BOT	Bottom
CIP	Cast In Place
CHNL	Channel
CJ	Control Joint
CL	Center Line
CLG	Ceiling
CLR	Clear
CMU	Concrete Masonry Unit
COL	Column
COMPR	Compressible
CONC	Concrete
CONT	Continuous
CPT	Carpet
CT	Ceramic Tile
CTYD	Courtyard
DBL	Double
DEMO	Demolish or Demolition
DIA	Diameter
DIM	Dimension
DIMS	Dimensions
DN	Down
DR	Door
DWG	Drawing
EA	Each
EJ	Expansion Joint
EL	Elevation
ELEC	Electrical
ELEV	Elevator or Elevation
EPDM	Ethylene Propylene Diene M-Class (Roofing)
EQ	Equal
EXIST	Existing
EXP JT	Expansion Joint
EXT	Exterior
FD	Floor Drain or Fire Department
FEC	Fire Extinguisher Cabinet
FF	Finished Face or Finished Floor
FFL	Finished Floor Level
FIXT	Fixture
FLR	Floor
FM	Filled Metal
FO	Face Of
FND	Foundation
GA	Gauge
GALV	Galvanized
GWB	Gypsum Wall Board
HC	Hollow Core
HI	High
HM	Hollow Metal
HP	High Point
HR	Hour
HVAC	Heating, Ventilating, And Air Conditioning
IRGWB	Impact Resistant Gypsum Wall Board
ILO	In Lieu Of
INSUL	Insulated or Insulation
INT	Interior
LO	Low
MAX	Maximum
MO	Masonry Opening
MECH	Mechanical
MEMBR	Membrane
MIN	Minimum
MRGWB	Moisture-Resistant Gypsum Wall Board
MTL	Metal
NIC	Not In Contract
NO	Number
NOM	Nominal
OC	On Center
OH	Overhang or Opposite Hand
OPP	Opposite or Opposite Hand
OZ	Ounce
PCC	Pre-Cast Concrete
PLUMB	Plumbing
PLYD	Plywood
PT	Pressure Treated
PNT	Paint or Painted
PVC	Polyvinyl Chloride
RBR	Rubber
RCP	Reflected Ceiling Plan
RD	Roof Drain
REQD	Required
RM	Room
SIM	Similar
SD	Smoke Detector
SPEC	Specified OR Specification
SPK	Sprinkler or Speaker
SSTL	Stainless Steel
STC	Sound Transmission Coefficient
STL	Steel
STRUCT	Structure or Structural
T&G	Tongue And Groove
TEL, TELE	Telecommunications, Telephone
TLT	Toilet
TME	To Match Existing
TO	Top Of
TOC	Top Of Concrete
TOS	Top Of Steel
TPD	Toilet Paper Dispenser
T/D	Telephone/Data
TYP	Typical
UNO	Unless Noted Otherwise
U/S	Underside
VIF	Verify In Field
VP	Vision Panel
W/	With
WD	Wood

SYMBOLS



MAIN CONSULTANTS

GENERAL CONTRACTOR

CAD DRAFTER

Address
4024 Coleman Ave, San Diego, CA, 92110

Contact

Email: info@caddrafter.us

Phone: +1 469-638-3585

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STAMP

AJEENA MEDITERRANEAN BAKERY AND COFFEE SHOP
515 W Campbell Rd, Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/2026

ISSUE DATES

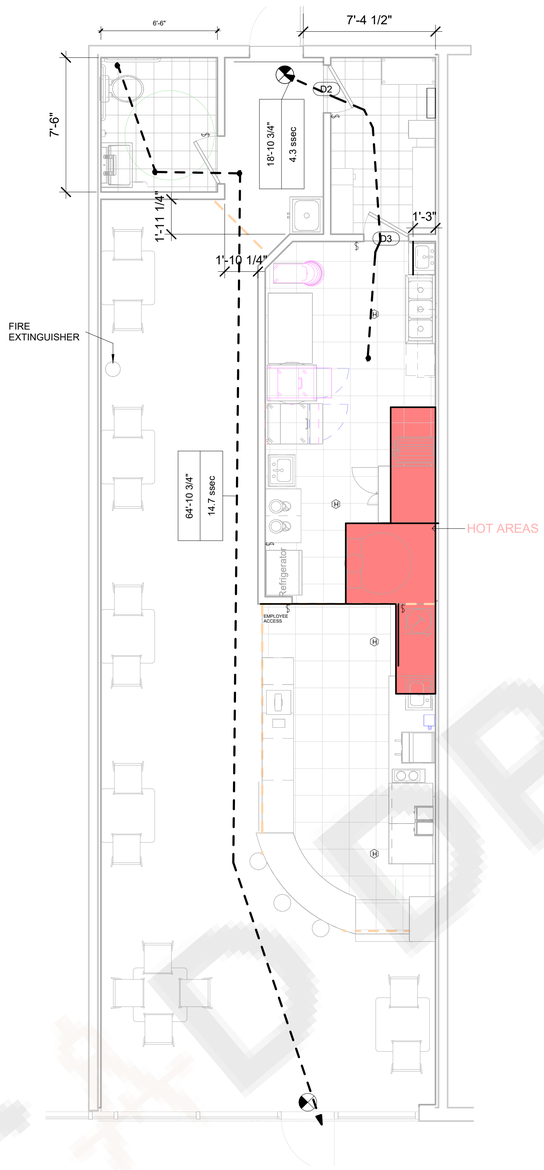
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PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AK
CHECKED BY	SA

PROJECT NUMBER:
7003-06

DATE:
13/01/2026

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
A-0.0



1 Fire Safety Plan

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

0 2' 4' 8'
0 2'
1/4" = 1'-0"

LEGEND

○	FIRE EXTINGUISHER
- - - -	EMERGENCY EXIT PATH
- - - - - - - - -	COMMON PATH OF TRAVEL
⊗	EXIT SIGN

FIRE CHECK LIST

CLASSIFICATION OF WORK PER IBC EB : ALTERATION LEVEL 2

BUILDING AREA : 1,200 SF

BLDG. USE : RESTAURANT / COFFEE SHOP

OCCUPANCY : GROUP A-2 – ASSEMBLY (RESTAURANT USE)

CONSTRUCTION TYPE : TYPE II-B (NON-SPRINKLERED)

TOTAL OCCUPANT LOAD : 25 PERSONS (DINING + STAFF)

IS SPRINKLER REQUIRED PER IBC B 903.2.1.2?
(GROUP A-2): NO (SPRINKLER SYSTEM NOT PROVIDED – NOT REQUIRED FOR OCCUPANT LOAD LESS THAN 100 AND LOCATED AT GRADE LEVEL)

EXITING REQUIREMENT:

REQUIRED NUMBER OF EXITS REQUIRED PER IBC B TABLE 1006.2.1 : 1 EXIT

NUMBER OF EXITS PROVIDED: (2 EXITS PROVIDED)

EXIT WIDTH REQUIRED PER IBC B 1005.3: 25 x 0.2" = 5.0"

EXIT WIDTH PROVIDED : (36" PROVIDED)

NUMBER OF ACCESSIBLE EXITS PROVIDED: 2 EXIT = 100% > 60% OF EXITS

INTERIOR WALL & CLG FINISH REQUIREMENTS: IBC TABLE 803.11

USE GROUP A-2 - NON-SPRINKLERED.

EXIT ENCLOSURES & EXIT PASSAGE CLASS A
CORRIDORS CLASS B
ROOMS & ENCLOSED SPACES CLASS C

INTERIOR FLOOR FINISH: IBC B804.4

MINIMUM CRITICAL RADIANT FLUX: CLASS II IN EXIT ACCESS CORRIDORS AND EXITWAYS

CORRIDOR RESISTANCE RATING: IBC TABLE 1020.1
OCCUPANCY: GROUP A-2
OCCUPANT LOAD: LESS THAN 30
SPRINKLERED: NO
→ 0.5 HR FIRE-RESISTANCE RATING REQUIRED

MINIMUM CORRIDOR WIDTH PER IBC TABLE 1020.1:

REQUIRED WIDTH: 36" (OL < 50)
PROVIDED WIDTH: 36" (COMPLIES)

FIRE NOTES

1-BUILDING IS NON-SPRINKLERED
2- CONTENTS CLASSIFIED AS ORDINARY HAZARD
3-INTERIOR FINISH ON EXIT ENCLOSURE AND PASSWAY
(B) - CORRIDORS (C) - ROOMS AND ENCLOSED SPACE (C) PER NFPA"
4-FIRE RATING ON TENANT SEPARATION WALL 1H - ADJACENT TENANT OCCUPANCY (M)MERCANTILE

MAIN CONSULTANTS

CAD DRAFTER

GENERAL CONTRACTOR

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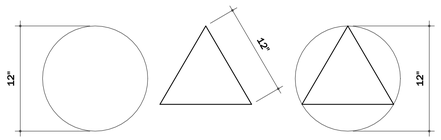
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PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
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CHECKED BY	SA

PROJECT NUMBER:
7003-06

DATE:
13/01/2026

SHEET TITLE:
Fire Safety Plan

SHEET NUMBER:
A-0.00



PLAIN GEOMETRIC IDENTIFICATION SINGS



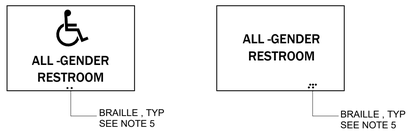
DARK COLORED DOORS

LIGHT COLORED DOORS

CAL ALL GENDER PLAN GEOMETRIC IDENTIFICATION SIGNS



INTERNATIONAL SYMBOLS OF ACCESSIBILITY

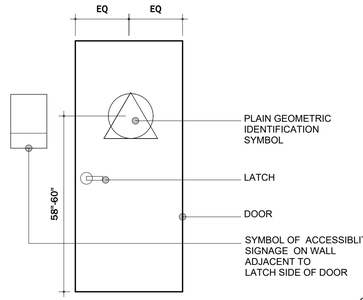


ALL -GENDER RESTROOM SIGN

NOTES:
1. PLAIN GEOMETRIC IDENTIFICATION SIGNS SHALL BE 1/4" THICK BLUE ACRYLIC PLASTIC SHAPE

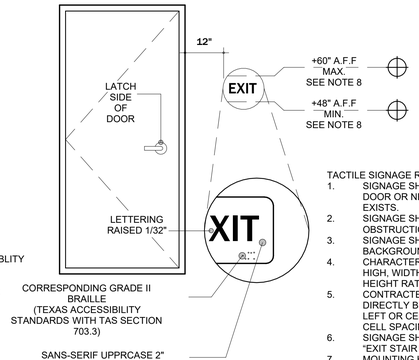
△ FOR MEN
◯ FOR WOMEN
⧋ FOR UNISEX

2. LETTERS AND NUMERALS ON TACTILE SIGNS SHALL BE RAISED A MINIMUM OF 1/32 IN (0.8 MM) ABOVE THE BACKGROUND, UPPERCASE ONLY, IN A SANS-SERIF STYLE, WITH CHARACTER HEIGHT BETWEEN 5/8 IN (16 MM) MINIMUM AND 2 IN (51 MM) MAXIMUM. CHARACTER PROPORTIONS, SPACING, AND PLACEMENT SHALL COMPLY WITH TEXAS ACCESSIBILITY STANDARDS (TAS) SECTION 703.2
3. MOUNTING LOCATIONS SHALL ALLOW A PERSON TO APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
4. BRAILLE SHALL BE CONTRACTED GRADE 2 AND PLACED DIRECTLY BELOW THE CORRESPONDING RAISED TACTILE CHARACTERS, EITHER FLUSH LEFT OR CENTERED, IN ACCORDANCE WITH TEXAS ACCESSIBILITY STANDARDS (TAS) SECTION 703.3
5. ATTACH TO SURFACE WITH TAMPER PROOF SCREWS.



MOUNTING HEIGHTS

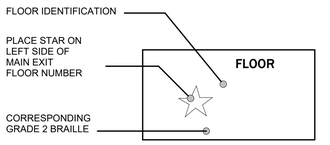
NOTE :
WHERE THERE IS NOT WALL SPACE ON THE LATCH SIDE ,
SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL ,
PREFERABLY ON THE RIGHT .



PICTOGRAM NOTE:
PICTOGRAM SYMBOLS SHALL BE ACCOMPANIED BT THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE MIN. 6" HIGH.

TACTILE SIGNAGE REQUIREMENTS (TAS):
1. SIGNAGE SHALL BE INSTALLED ON THE LATCH SIDE OF THE DOOR OR NEAREST WALL TO THE RIGHT IF NO SPACE EXISTS.
2. SIGNAGE SHALL ALLOW APPROACH WITHIN 3 IN WITHOUT OBSTRUCTION OR STANDING IN DOOR SWING.
3. SIGNAGE SHALL HAVE A NON-GLARE, HIGH-CONTRAST BACKGROUND.
4. CHARACTERS SHALL BE SANS-SERIF UPPERCASE. 5/8 –2 IN HIGH, WIDTH-TO-HEIGHT RATIO 3:5 TO 1:1, STROKE-TO-HEIGHT RATIO 1:5 TO 1:10.
5. CONTRACTED GRADE 2 BRAILLE SHALL BE PLACED DIRECTLY BELOW CORRESPONDING TACTILE TEXT, FLUSH LEFT OR CENTERED; DOT HEIGHT 1/40 IN, SPACING 1/10 IN, CELL SPACING 2/10 IN. (TAS 703.3)
6. SIGNAGE SHALL INCLUDE "EXIT" AT GROUND DOORS OR "EXIT STAIR DOWN" AT STAIRS TO GROUND EXIT.
7. MOUNTING HEIGHT: 48–60 IN ABOVE FINISH FLOOR, MEASURED FROM BASELINE OF LOWEST BRAILLE TO HIGHEST TACTILE CHARACTER.

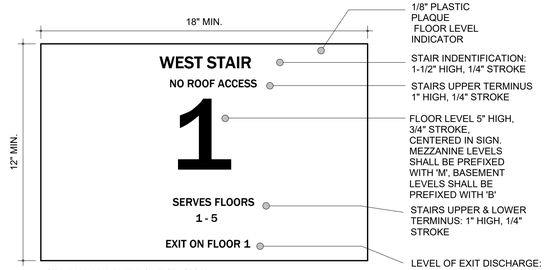
CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND AND
BOTH SHALL HAVE A NON-GLARE FINISH



FLOOR IDENTIFICATION SIGN

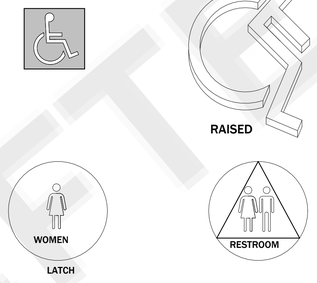
NOTE:
RAISED, VISUAL CHARACTERS & BRAILLE SHALL COMPLY WITH 703.2, 703.3, 703.4. 703.5

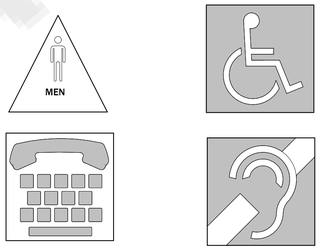
SIGN SHALL BE LOCATED ADJACENT TO THE DOOR ON THE LATCH SIDE.

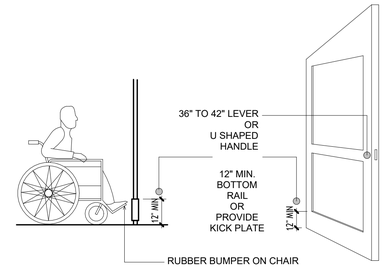


STAIRWAY IDENTIFICATION SIGN
LOCATE SIGN ABOVE FLOOR A LOCATION THAT IS READIL VISIBLE.

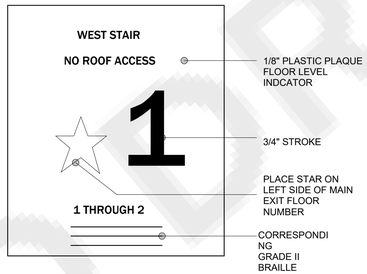
NOTE:
407.2.3.FLOOR DESIGNATIONS SHALL BE PROVIDED IN BOTH TACTILE CHARACTERS AND BRAILLE

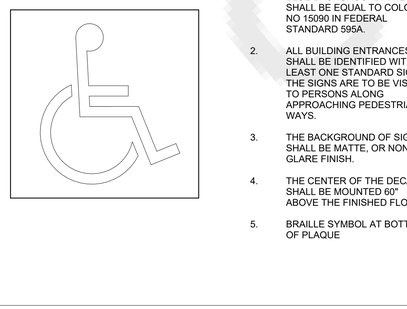




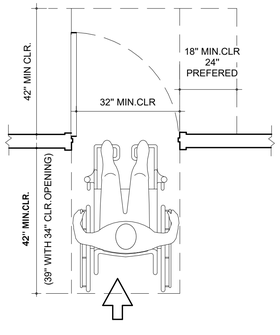


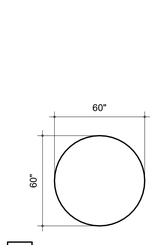
DOOR TYPE:
1 MINIMUM 10" HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL.
HARDWARE:
2.OPENABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.
3.OPENABLE BY SINGLE EFFORT LEVER-TYPE DEVICE (NOT REQUIRING GRASPING).
4.MOUNTED 36" TO 42".
5.MAXIMUM 5 LBS. EFFORT TO OPERATE EXTERIOR DOOR, 5 LBS. FOR INTERIOR.



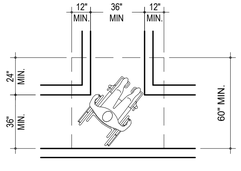


1. SYMBOL SHALL BE WHITE ON BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO 15090 IN FEDERAL STANDARD 595A.
2. ALL BUILDING ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN. THE SIGNS ARE TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
3. THE BACKGROUND OF SIGNS SHALL BE MATTE, OR NON-GLARE FINISH.
4. THE CENTER OF THE DECAL SHALL BE MOUNTED 60" ABOVE THE FINISHED FLOOR.
5. BRAILLE SYMBOL AT BOTTOM OF PLAQUE

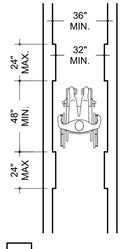




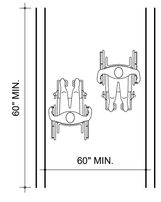
A 60 INCHES DIAMETER SPACE



B T-SHAPED SPACE FOR 180 DEG. TURN



C MINIMUM CLEAT WIDTH FOR SINGLE WHEELCHAIRS



D MINIMUM CLEAT WIDTH FOR TOW WHEELCHAIRS

VISUAL (RAISED) CHARACTERS:
1. WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN. & 110% MAX. OF THE HEIGHT OF THE UPPERCASE "I".
2. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAX. OF THE HEIGHT OF THE CHARACTER.
3. CONTRAST CHARACTERS AND SYMBOLS WITH BACKGROUND.
4. SANS SERIF CHARACTERS.

SIGNS & PICTOGRAMS:
5. PICTOGRAMS/PICTORAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION SHALL BE OF NON-GLARE CONTRASTING COLORS.
6. CHARACTERS AND BACKGROUNDS SHALL BE OF NON-GLARE CONTRASTING COLORS.
7. SIGNS/PICTOGRAMS SHALL BE INSTALLED ON THE WALL ADJACENT TO DOOR LEADING TO THE ROOM OR SPACE THEY DESCRIBE AND AT 48" MIN. A.F.F. OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE & 60" MAX. A.F.F. OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE DOOR SWING AREA.
8. VERTICAL CLEARANCE AT SUSPENDED SIGNS WITH MINIMUM HEADROOM OF 80" REQUIRE MINIMUM 3" CHARACTER HEIGHT MEASURED BY USING UPPERCASE "X". CHARACTERS AND NUMBERS SHALL BE SIZED ACCORDING TO VIEWING DISTANCE FROM WHICH READ. LOWER CASE CHARACTERS PERMITTED.

SIGN LOCATIONS:
9. ALL ACCESSIBLE ENTRANCES IDENTIFIED WITH MINIMUM OF ONE STANDARD SIGN.
10. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED.
11. BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY.

INTERNATIONAL SYMBOL OF ACCESSIBILITY:
12. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
13. WHITE FIGURE ON BLUE BACKGROUND, COLOR 15090 ON FEDERAL STANDARD 595A.
14. WHEN ENFORCING AGENCY DETERMINES, IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED.

BRAILLE:
15. POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTILINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.
16. USE CONTRASTED GRADE II BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL.
17. 0.2 INCH SPACE BETWEEN CELLS.
18. DOTS RAISED MINIMUM 0.025 INCH ABOVE BACKGROUND.

MAIN CONSULTANTS

CAD DRAFTER

GENERAL CONTRACTOR

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AJEENA MEDITERRANEAN BAKERY AND COFFEE SHOP
515 W Campbell Rd,
Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/2026

ISSUE DATES

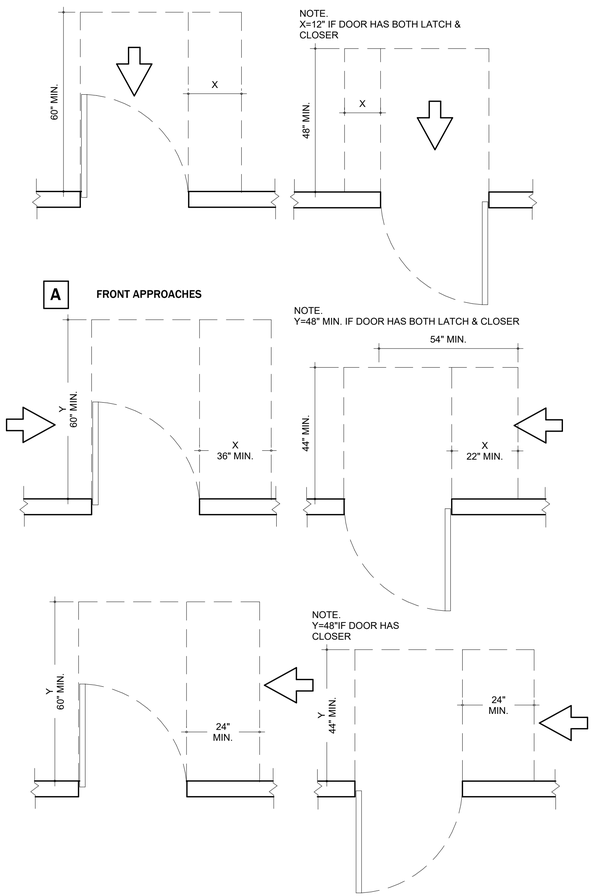
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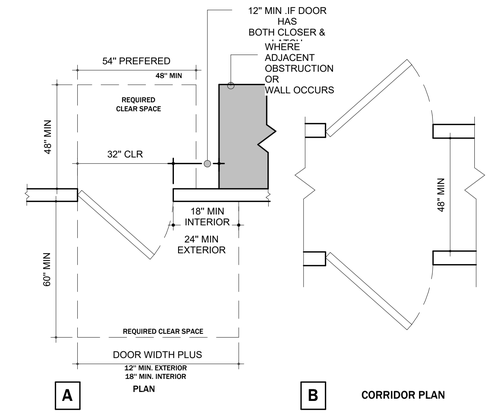
PROJECT NUMBER:
7003-06

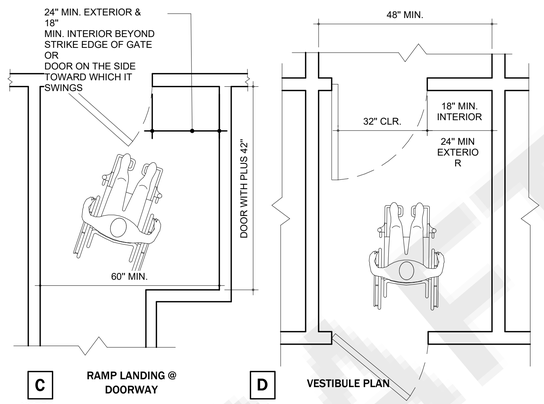
DATE:
13/01/2026

SHEET TITLE:
ADA COMPLIANCE

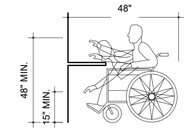
SHEET NUMBER:
A-0.1

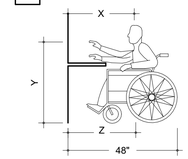






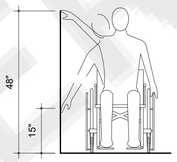
NOTES:
1. CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.
2. WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48". FOR ADDITIONAL INFORMATION, SEE APPLICABLE NOTES ON TYPICAL ACCESSIBILITY NOTES SHEET

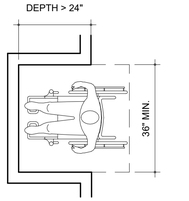


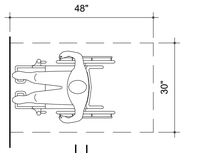


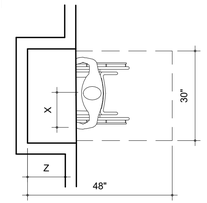
NOTES:
1.X SHALL BE < 25 INCHES; Z SHALL BE > X.
2.WHEN X <20 INCHES, THEN Y SHALL BE
48 INCHES MAXIMUM.
3.WHEN X IS 20 TO 25 INCHES,THEN Y SHALL BE 44 INCHES MAXIMUM.

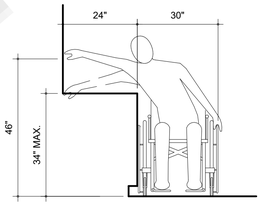
MAXIMUM FORWARD REACH OVER OBSTRUCTION

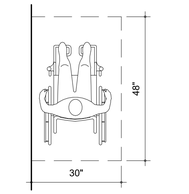












C A D D R A F T E R

MAIN CONSULTANTS

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STAMP

AJEENA MEDITERRANEAN BAKERY AND COFFEE SHOP

515 W Campbell Rd,
Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/2026

ISSUE DATES

TYPE	DATE
ONWER REVIEW SET	
PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AK
CHECKED BY	SA

PROJECT NUMBER:
7003-06

DATE:
13/01/2026

SHEET TITLE:
ADA COMPLIANCE

SHEET NUMBER:
A-0.2

COM*check* Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Ajeena Mediterranean Bakery and Coffee Shop
Location: Richardson, Texas
Climate Zone: 2a
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Building Area	Floor Area
1-Bakery and Coffee Shop (Retail) : Nonresidential	1100

Envelope Assemblies

Post-Alteration Assembly	R-Value Cavity	R-Value Cont.	Proposed U-Factor	Proposed SHGC	Max. Allowed U-Factor	Max. Allowed SHGC
NORTH Ext. Wall: Solid Concrete, 6in. Thickness,Medium Density , Furring: Metal, [Bldg. Use 1 - Bakery and Coffee Shop] Window 1: Vinyl/Fiberglass Fixed, Clear, Fixed, [Bldg. Use 1 - Bakery and Coffee Shop], Exemption: Surface-applied window film on single pane assembly	13.0	5.0	0.082	---	0.151	---
	---	---	0.950	---	0.450	0.252

Envelope PASSES

Envelope Compliance Statement

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Ajeena Mediterranean Bakery and Coffee Shop
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-SITTING AREA (Common Space Types:Dining Area - General)	547	0.43	235
2-SERVICE AREA/RECEIVING (Common Space Types:Storage)	57	0.38	22
3-KITCHEN (Common Space Types:Food Preparation)	192	1.09	209
4-BAR COUNTER (Common Space Types:Dining Area - Bar Lounge/Leisure)	167	0.86	144
5-DRY STORAGE (Common Space Types:Storage >=50 - <=1000 sq.ft.)	58	0.38	22
6-ADA TOILET (Common Space Types:Restrooms)	48	0.63	30
		Total Allowed Watts =	662

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
SITTING AREA (Common Space Types: Dining Area - General, 547 sq.ft.)				
LED; LED PAR 15W; LED PAR 15W;	1 1	8 6	15 15	120 90
SERVICE AREA/RECIEVING (Common Space Types: Storage, 57 sq.ft.)				
LED; LED Panel 33W;	1	1	24	24
KITCHEN (Common Space Types: Food Preparation, 192 sq.ft.)				
LED; LED Panel 33W;	1	6	24	144
BAR COUNTER (Common Space Types: Dining Area - Bar Lounge/Leisure, 167 sq.ft.)				
LED; LED Panel 33W; LED; LED Other Future Unit 16W;	1 1	6 4	24 15	144 60
DRY STORAGE (Common Space Types: Storage >=50 - <=1000 sq.ft., 58 sq.ft.)				
LED; LED Panel 40W;	1	1	30	30
ADA TOILET (Common Space Types: Restrooms, 48 sq.ft.)				
LED; LED Panel 33W; LED; LED A Lamp 13W;	1 1	1 1	24 13	24 13
		Total Proposed Watts =		649

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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Ajeena Mediterranean Bakery and Coffee Shop
Project Type: Alteration
Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
WALKWAY (Walkway < 10 feet wide)	38 ft of	0.5	Yes	19
			Total Tradable Watts (a) =	19
			Total Allowed Watts =	19
		Total Allowed Supplemental Watts (b) =		400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
WALKWAY (Walkway < 10 feet wide, 38 ft of walkway length): Tradable Wattage				
LED; LED PAR 15W;	1	6	15	90
			Total Tradable Proposed Watts =	90

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Ajeena Mediterranean Bakery and Coffee Shop
Location: Richardson, Texas
Climate Zone: 2a
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity	System Type & Description
1	HVAC System (Single Zone): Single Package Heat Pump Heating Mode: Capacity = 60 kBtu/h, Proposed Efficiency = 8.20 HSPF2, Required Efficiency = 6.70 HSPF2 Cooling Mode: Capacity = 60 kBtu/h,, Air Economizer Proposed Efficiency = 15.00 SEER2, Required Efficiency = 13.80 SEER2 Proposed Efficiency = 15.00 , Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Fails: FAN 1 : FAILS: Nameplate HP is unspecified Fans: FAN 1 Exhaust, Constant Volume, 100 CFM, 0.0 motor nameplate hp, 0.00 fan energy index , fan exception: fan array <= 5 total HP or <= 4.1 kW
1	HVAC System (Single Zone): Cooling: 1 each - DX DOAS w/ Heat Recovery (Dehumidification), Capacity = 64 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 6.40 IEMRE, Required Efficiency = 5.20 IEMRE Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Hood Exhaust Fan | Kitchen -- Compliance (Motor nameplate HP and fan efficiency method) : Fails: FAILS: Fan system has no supply fan Fans: FAN 2 Exhaust, Constant Volume, 2200 CFM, 1.0 motor nameplate hp, 0.85 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COM*check* 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 [PR1]†	Plans and/or specifications provide all information with sufficient clarity that it can be determined by the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR2]†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR8]†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR10]†	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR11]†	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section & Req.ID	Plan Review	Complies?	Comments/Assumptions
C402.4.2 [PR14]†	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= the minimum size as specified in tables to daylight zone in >= 1 fixture equipped with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2.1 [FO6]†	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12]†	Fenestration products rated in accordance with NFRC certified and as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.3 [FR10]†	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8]†	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1 [FR16]†	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.4 [FR18]†	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]†	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]†	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.1 [ME65]†	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.8.3 [ME117]†	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.3 [ME117]†	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.9 [ME144]†	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.13.1 [ME71]†	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3 [ME55]†	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.5.5 [ME113]†	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [ME59]†	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum ventilation rates.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.1 [ME59]†	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115]†	Enclosed parking garage ventilation has automatic contaminant detection and operates to prevent average carbon monoxide levels >50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.6 [ME141]†	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoints in accordance with sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.4 [ME57]†	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.5 [ME116]†	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood ventilating requirements and maximum exhaust rates.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.12.1 [ME60]†	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME62]†	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.2 [ME16]†	Economizer operation will not increase heating energy use during normal operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3, 3 [ME124]†	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3, 4 [ME125]†	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet is located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3, 5 [ME126]†	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1, 4 [ME63]†	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 85F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2 [ME5.5]†	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.1, C403.1.1, C403.1.3 [ME123]†	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered evaporators that comply with Sections C403.13.3.1 and refrigeration compressor systems that comply with C403.13.3.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22]†	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18]†	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces 300 sq.ft. or less that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, 2 [EL19]†	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is manually controlled or controlled to automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the minimum area detected by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, 3 [EL20]†	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces are zoned and configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft., within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) general lighting in each zone shut off lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes after all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1 [EL21]†	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23]†	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.3.1 daylight responsive control function per section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL27]†	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.7 [EL28]†	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on astronomical time switch, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL29]†	Low-voltage dry-type distribution transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27]†	Electric motors meet the minimum efficiency requirements of Tables C405.8(1) and C405.8(2). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28]†	Escalators and moving walks comply with ASME A17.1/CSA B44 and have the capability to reduce operating speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29]†	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30]†	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31]†	50% of 15/20 amp receptacles installed in enclosed offices, classrooms, conference rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.2 [IN7]†	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN5]†	Insulated above-grade wall insulation type and R-value consistent with specifications as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18]†	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.1, 1 [IN1]†	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped, or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5, 2 [FI17]†	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.3, C408.2.5, 3 [FI8]†	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C401.3 [FI58]†	A thermal envelope certificate will be supplied and posted by an approved third party.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.10 [FI26]†	Recessed luminaires in thermal envelope to limit infiltration and IC rated and labeled. Gaskets between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.1.1 [FI50]†	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3.1 [FI27]†	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1 [FI47]†	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device for each humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1, 1 [FI42]†	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1, 2 [FI38]†	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1, 3 [FI20]†	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2 [FI39]†	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2.1, C403.4.2.2 [FI40]†	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C405.5.1 [FI15]†	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.1.1 [FI57]†	Building operations and maintenance documents will be provided to the building owner including manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.1 [FI28]†	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3, 3 [FI33]†	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3, 2 [FI10]†	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3, 3 [FI32]†	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.4 [FI29]†	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI7]†	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI16]†	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5, 3 [FI43]†	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5, 2 [FI30]†	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI13]†	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

MAIN CONSULTANTS

CAD DRAFTER

GENERAL CONTRACTOR

AJEENA MEDITERRANEAN BAKERY AND COFFEE SHOP
515 W Campbell Rd,
Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/2026

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STAMP

ISSUE DATES

TYPE	DATE
ONWER REVIEW SET	
PERMIT SET	
BID SET	

Additional Comments/Assumptions:

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

Project Title: Ajeena Mediterranean Bakery and Coffee Shop
Data filename:

Report date: 01/13/26
Page : 19 of 19

CAD DRAFTER

MAIN CONSULTANTS

CAD DRAFTER

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AJEENA MEDITERRANEAN BAKERY AND COFFEE SHOP
515 W Campbell Rd,
Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/2026

ISSUE DATES

TYPE	DATE
ONWER REVIEW SET	
PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AK
CHECKED BY	SA

PROJECT NUMBER:
7003-06

DATE:
13/01/2026

SHEET TITLE:
COM CHECK

SHEET NUMBER:
A-0.2B

Space Input Data

ADA Toilet

1. **General Details:**
Floor Area ..... 48.4 ft²
Avg. Ceiling Height ..... 9.0 ft
Building Weight ..... 70.0 lb/ft²
1.1. **OA Ventilation Requirements:**
Space Usage ..... User-Defined
OA Requirement 1 ..... 0.3 CFM/person
OA Requirement 2 ..... 0.06 CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. **Internals:**
2.1. **Overhead Lighting:**
Fixture Type ..... Recessed (Unvented)
Wattage ..... 0.74 W/ft²
Ballast Multiplier 1.00
Schedule ..... **Sample Schedule**

2.2. **Task Lighting:**
Wattage ..... 0.00 W/ft²
Schedule ..... None

2.3. **Electrical Equipment:**
Wattage ..... 0.19 W/ft²
Schedule ..... **Sample Schedule**

2.4. **People:**
Occupancy ..... 1.0 Person
Activity Level ..... User defined
Sensible ..... 258.0 BTU/hr/person
Latent ..... 187.7 BTU/hr/person
Schedule ..... **Sample Schedule**

2.5. **Miscellaneous Loads:**
Sensible ..... 0 BTU/hr
Schedule ..... None
Latent ..... 0 BTU/hr
Schedule ..... None

3. **Walls, Windows, Doors:**

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
E	68.9	0	0	0

3.1. **Construction Types for Exposure E**
Wall Type ..... **Default Wall Assembly**

4. **Roofs, Skylights:**

Exp.	Roof Gross Area (ft²)	Roof Slope (deg.)	Skylight Qty.
H	48.4	0	0

4.1. **Construction Types for Exposure H**
Roof Type ..... **Default Roof Assembly**

5. **Infiltration:**
Design Cooling ..... 1.00 ACH
Design Heating ..... 0.00 CFM
Energy Analysis ..... 0.00 CFM
Infiltration occurs only when the fan is off.

6. **Floors:**
Type ..... **Slab Floor On Grade**
Floor Area ..... 48.4 ft²
Total Floor U-Value ..... 0.100 BTU/(hr·ft²·°F)
Exposed Perimeter ..... 32.6 ft
Edge Insulation R-Value ..... 0.00 (hr·ft²·°F)/BTU

7. **Partitions:**
(No partition data).

Star Counter

1. **General Details:**
Floor Area ..... 170.1 ft²
Avg. Ceiling Height ..... 9.0 ft
Building Weight ..... 70.0 lb/ft²
1.1. **OA Ventilation Requirements:**
Space Usage ..... **GENERAL: Coffee station**
OA Requirement 1 ..... 5.3 CFM/person
OA Requirement 2 ..... 0.06 CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. **Internals:**
2.1. **Overhead Lighting:**
Fixture Type ..... Recessed (Unvented)
Wattage ..... 1.39 W/ft²
Ballast Multiplier 1.00
Schedule ..... **Sample Schedule**

2.2. **Task Lighting:**
Wattage ..... 0.00 W/ft²
Schedule ..... None

2.3. **Electrical Equipment:**
Wattage ..... 1.39 W/ft²
Schedule ..... **Sample Schedule**

2.4. **People:**
Occupancy ..... 11.0 People
Activity Level ..... Sedentary Work
Sensible ..... 245.1 BTU/hr/person
Latent ..... 269.9 BTU/hr/person
Schedule ..... **Sample Schedule**

2.5. **Miscellaneous Loads:**
Sensible ..... 0 BTU/hr
Schedule ..... None
Latent ..... 0 BTU/hr
Schedule ..... None

3. **Walls, Windows, Doors:**
(No Wall, Window, Door data).

4. **Roofs, Skylights:**
(No Roof or Skylight data).

5. **Infiltration:**
Design Cooling ..... 0.00 ACH
Design Heating ..... 0.00 CFM
Energy Analysis ..... 0.00 CFM
Infiltration occurs only when the fan is off.

6. **Floors:**
Type ..... **Slab Floor On Grade**
Floor Area ..... 170.1 ft²
Total Floor U-Value ..... 0.100 BTU/(hr·ft²·°F)
Exposed Perimeter ..... 0.0 ft
Edge Insulation R-Value ..... 0.00 (hr·ft²·°F)/BTU

7. **Partitions:**
(No partition data).

Dry Storage /Office

1. **General Details:**
Floor Area ..... 99.2 ft²
Avg. Ceiling Height ..... 9.0 ft
Building Weight ..... 70.0 lb/ft²
1.1. **OA Ventilation Requirements:**
Space Usage ..... **OFFICE: Office space**
OA Requirement 1 ..... 5.3 CFM/person
OA Requirement 2 ..... 0.06 CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. **Internals:**
2.1. **Overhead Lighting:**
Fixture Type ..... Recessed (Unvented)
Wattage ..... 0.93 W/ft²
Ballast Multiplier 1.00
Schedule ..... **Sample Schedule**

2.2. **Task Lighting:**
Wattage ..... 0.00 W/ft²
Schedule ..... None

2.3. **Electrical Equipment:**
Wattage ..... 0.93 W/ft²
Schedule ..... **Sample Schedule**

2.4. **People:**
Occupancy ..... 1.0 Person
Activity Level ..... Office Work
Sensible ..... 245.0 BTU/hr/person
Latent ..... 205.0 BTU/hr/person
Schedule ..... **Sample Schedule**

2.5. **Miscellaneous Loads:**
Sensible ..... 0 BTU/hr
Schedule ..... None
Latent ..... 0 BTU/hr
Schedule ..... None

3. **Walls, Windows, Doors:**

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
E	67.8	0	0	0

3.1. **Construction Types for Exposure E**
Wall Type ..... **Default Wall Assembly**

4. **Roofs, Skylights:**
(No Roof or Skylight data).

5. **Infiltration:**
Design Cooling ..... 1.20 ACH
Design Heating ..... 0.00 CFM
Energy Analysis ..... 0.00 CFM
Infiltration occurs only when the fan is off.

6. **Floors:**
Type ..... **Slab Floor On Grade**
Floor Area ..... 99.2 ft²
Total Floor U-Value ..... 0.100 BTU/(hr·ft²·°F)
Exposed Perimeter ..... 32.6 ft
Edge Insulation R-Value ..... 0.00 (hr·ft²·°F)/BTU

7. **Partitions:**
(No partition data).

Kitchen

1. **General Details:**
Floor Area ..... 192.7 ft²
Avg. Ceiling Height ..... 9.0 ft
Building Weight ..... 70.0 lb/ft²
1.1. **OA Ventilation Requirements:**
Space Usage ..... **FOOD SERVICE: Kitchen (cooking)**
OA Requirement 1 ..... 7.5 CFM/person
OA Requirement 2 ..... 0.12 CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. **Internals:**
2.1. **Overhead Lighting:**
Fixture Type ..... Recessed (Unvented)
Wattage ..... 1.21 W/ft²
Ballast Multiplier 1.00
Schedule ..... **Sample Schedule**

2.2. **Task Lighting:**
Wattage ..... 0.00 W/ft²
Schedule ..... None

2.3. **Electrical Equipment:**
Wattage ..... 10000.0 Watts
Schedule ..... **Sample Schedule**

2.4. **People:**
Occupancy ..... 4.0 People
Activity Level ..... Heavy Work
Sensible ..... 525.1 BTU/hr/person
Latent ..... 925.8 BTU/hr/person
Schedule ..... **Sample Schedule**

2.5. **Miscellaneous Loads:**
Sensible ..... 0 BTU/hr
Schedule ..... None
Latent ..... 0 BTU/hr
Schedule ..... None

3. **Walls, Windows, Doors:**
(No Wall, Window, Door data).

4. **Roofs, Skylights:**
(No Roof or Skylight data).

5. **Infiltration:**
Design Cooling ..... 1.20 ACH
Design Heating ..... 0.00 CFM
Energy Analysis ..... 0.00 CFM
Infiltration occurs only when the fan is off.

6. **Floors:**
Type ..... **Slab Floor On Grade**
Floor Area ..... 192.7 ft²
Total Floor U-Value ..... 0.100 BTU/(hr·ft²·°F)
Exposed Perimeter ..... 0.0 ft
Edge Insulation R-Value ..... 0.00 (hr·ft²·°F)/BTU

7. **Partitions:**
(No partition data).

Service Area

1. **General Details:**
Floor Area ..... 69.2 ft²
Avg. Ceiling Height ..... 9.0 ft
Building Weight ..... 70.0 lb/ft²
1.1. **OA Ventilation Requirements:**
Space Usage ..... **OFFICE: Reception area**
OA Requirement 1 ..... 5.3 CFM/person
OA Requirement 2 ..... 0.06 CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. **Internals:**
2.1. **Overhead Lighting:**
Fixture Type ..... Recessed (Unvented)
Wattage ..... 0.93 W/ft²
Ballast Multiplier 1.00
Schedule ..... **Sample Schedule**

2.2. **Task Lighting:**
Wattage ..... 0.00 W/ft²
Schedule ..... None

2.3. **Electrical Equipment:**
Wattage ..... 0.93 W/ft²
Schedule ..... **Sample Schedule**

2.4. **People:**
Occupancy ..... 1.0 Person
Activity Level ..... Office Work
Sensible ..... 245.0 BTU/hr/person
Latent ..... 205.0 BTU/hr/person
Schedule ..... **Sample Schedule**

2.5. **Miscellaneous Loads:**
Sensible ..... 0 BTU/hr
Schedule ..... None
Latent ..... 0 BTU/hr
Schedule ..... None

3. **Walls, Windows, Doors:**

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
E	67.8	0	0	1

3.1. **Construction Types for Exposure E**
Wall Type ..... **Default Wall Assembly**
Door Type **D1**

4. **Roofs, Skylights:**
(No Roof or Skylight data).

5. **Infiltration:**
Design Cooling ..... 0.50 ACH
Design Heating ..... 0.00 CFM
Energy Analysis ..... 0.00 CFM
Infiltration occurs only when the fan is off.

6. **Floors:**
Type ..... **Slab Floor On Grade**
Floor Area ..... 69.2 ft²
Total Floor U-Value ..... 0.100 BTU/(hr·ft²·°F)
Exposed Perimeter ..... 32.6 ft
Edge Insulation R-Value ..... 0.00 (hr·ft²·°F)/BTU

7. **Partitions:**
(No partition data).

Sitting Area

1. **General Details:**
Floor Area ..... 570.5 ft²
Avg. Ceiling Height ..... 9.0 ft
Building Weight ..... 70.0 lb/ft²
1.1. **OA Ventilation Requirements:**
Space Usage ..... **FOOD SERVICE: Bar, cocktail lounge**
OA Requirement 1 ..... 7.5 CFM/person
OA Requirement 2 ..... 0.18 CFM/ft²
Space Usage Defaults .. **ASHRAE Standard 62.1-2010**

2. **Internals:**
2.1. **Overhead Lighting:**
Fixture Type ..... Recessed (Unvented)
Wattage ..... 0.93 W/ft²
Ballast Multiplier 1.00
Schedule ..... **Sample Schedule**

2.2. **Task Lighting:**
Wattage ..... 0.00 W/ft²
Schedule ..... None

2.3. **Electrical Equipment:**
Wattage ..... 0.46 W/ft²
Schedule ..... **Sample Schedule**

2.4. **People:**
Occupancy ..... 30.0 People
Activity Level ..... Sedentary Work
Sensible ..... 245.1 BTU/hr/person
Latent ..... 269.9 BTU/hr/person
Schedule ..... **Sample Schedule**

2.5. **Miscellaneous Loads:**
Sensible ..... 0 BTU/hr
Schedule ..... None
Latent ..... 0 BTU/hr
Schedule ..... None

3. **Walls, Windows, Doors:**

Exp.	Wall Gross Area (ft²)	Window 1 Qty.	Window 2 Qty.	Door 1 Qty.
W	200.2	3	0	1

3.1. **Construction Types for Exposure W**
Wall Type ..... **Default Wall Assembly**
1st Window Type ..... **WIN 2**
Door Type **D1**

4. **Roofs, Skylights:**
(No Roof or Skylight data).

5. **Infiltration:**
Design Cooling ..... 0.00 ACH
Design Heating ..... 0.00 CFM
Energy Analysis ..... 0.00 CFM
Infiltration occurs only when the fan is off.

6. **Floors:**
Type ..... **Slab Floor On Grade**
Floor Area ..... 570.5 ft²
Total Floor U-Value ..... 0.100 BTU/(hr·ft²·°F)
Exposed Perimeter ..... 0.0 ft
Edge Insulation R-Value ..... 0.00 (hr·ft²·°F)/BTU

7. **Partitions:**
(No partition data).

Air System Sizing Summary for RTU -1

Air System Information
Air System Name ..... RTU -1
Equipment Class ..... PKG ROOF
Air System Type ..... SZCAV
Number of zones 1
Floor Area ..... 1100.1 ft²
Location ..... Richardson, Texas

Sizing Calculation Information
Calculation Months ..... Jan to Dec
Sizing Data ..... Calculated
Zone CFM Sizing ..... Sum of space airflow rates
Space CFM Sizing ..... Individual peak space loads

Central Cooling Coil Sizing Data
Total coil load ..... 9.5 Tons
Total coil load ..... 114.2 MBH
Sensible coil load ..... 84.2 MBH
Coil CFM at Jul 1700 ..... 3920 CFM
Max block CFM ..... 3920 CFM
Sum of peak zone CFM ..... 3920 CFM
Sensible heat ratio 0.737
CFM/Ton 411.9
BTU/in 115.6
BTU/(hr·ft²) 103.8
Water flow @ 10.0 °F rise ..... N/A
Load occurs at ..... Jul 1700
OA DB / WB ..... 99.9 / 78.7 °F
Entering DB / WB ..... 78.8 / 67.0 °F
Leaving DB / WB ..... 58.6 / 57.6 °F
Coil ADP ..... 56.4 °F
Bypass Factor 0.100
Resulting RH ..... 67 %
Design supply temp ..... 58.0 °F
Zone T-stat Check ..... 1 of 1 OK
Max zone temperature deviation ..... 0.0 °F

Central Heating Coil Sizing Data
Max coil load ..... 27.9 MBH
Coil CFM at Des Htg ..... 3920 CFM
Max coil CFM ..... 3920 CFM
Water flow @ 20.0 °F drop ..... N/A
Load occurs at ..... Des Htg
BTU/(hr·ft²) 25.4
Ext. DB / Lvg DB ..... 64.4 / 71.1 °F

Supply Fan Sizing Data
Actual max CFM ..... 3920 CFM
Standard CFM ..... 3858 CFM
Actual max CFM/ft² ..... 3.56 CFM/ft²
Fan motor BHP ..... 0.00 BHP
Fan motor kW ..... 0.00 kW
Fan static ..... 0.00 in wg

Outdoor Ventilation Air Data
Design airflow CFM ..... 492 CFM
CFM/ft² ..... 0.45 CFM/ft²
CFM/person ..... 10.24 CFM/person

Zone Sizing Summary for RTU -1

Air System Information
Air System Name ..... RTU -1
Equipment Class ..... PKG ROOF
Air System Type ..... SZCAV
Number of zones 1
Floor Area ..... 1100.1 ft²
Location ..... Richardson, Texas

Sizing Calculation Information
Calculation Months ..... Jan to Dec
Sizing Data ..... Calculated
Zone CFM Sizing ..... Sum of space airflow rates
Space CFM Sizing ..... Individual peak space loads

Zone Terminal Sizing Data

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM/ft²	Reheat Coil Load (MBH)	Reheat Coil Water gpm @ 20.0 °F	Zone Htg Unit Coil Load (MBH)	Zone Htg Unit Water gpm @ 20.0 °F	Mixing Box Fan Airflow (CFM)
Zone 1	3920	3920	3.56	0.0	-	0.0	-	0

Zone Peak Sensible Loads

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (ft²)
Zone 1	70.7	Jul 1700	7.1	1100.1

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
ADA Toilet	1	1.6	Jul 1400	87	1.2	48.4	1.80
Bar Counter	1	5.2	Jan 2300	286	0.0	170.1	1.68
Dry Storage /Office	1	1.4	Jul 2000	75	1.0	99.2	1.35
Kitchen	1	40.7	Jan 2300	2253	0.0	192.7	11.69
Service Area	1	1.6	Jul 1600	99	1.3	69.2	1.68
Sitting Area	1	20.2	Jul 1700	1119	3.6	570.5	1.96

Ventilation Sizing Summary for RTU -1

1. Summary
Ventilation Sizing Method ..... Sum of Space OA Airflows
Design Ventilation Airflow Rate ..... 492 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM/ft²)	Required Outdoor Air (CFM)	Required Outdoor Air (% of supply)	Uncorrected Air (CFM)
Zone 1									
ADA Toilet	1	48.4	1	87	5.00	0.06	8.0	0.0	8
Bar Counter	1	170.1	11	286	5.30	0.06	9.0	0.0	46.1
Dry Storage /Office	1	99.2	1	75	5.30	0.06	6.0	0.0	11.3
Kitchen	1	192.7	4	2253	7.50	0.12	24.0	0.0	53.5
Service Area	1	69.2	1	99	5.30	0.06	9.0	0.0	9.6
Sitting Area	1	570.5	30	1119.1	5.30	0.18	113.0	0.0	342.0
Totals (Incl. Space Multipliers)				**3918.6**					**491.6**

Air System Design Load Summary for RTU -1

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 99.9 °F / 78.7 °F			HEATING OA DB / WB 26.4 °F / 24.6 °F		
	OCCUPIED T-STAT 75.0 °F			OCCUPIED T-STAT 70.0 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	70 ft²	4949		70 ft²		
Wall Transmission	296 ft²	2387		296 ft²	3112	
Roof Transmission	48 ft²	327		48 ft²	243	
Window Transmission	70 ft²	899		70 ft²	1654	
Skylight Transmission	0 ft²	0		0 ft²	0	
Door Loads	39 ft²	1204		39 ft²	935	
Floor Transmission	1100 ft²	0		1100 ft²	466	
Partitions	0 ft²	0		0 ft²	0	
Ceiling	0 ft²	0		0 ft²	0	
Overhead Lighting	1146 W	3909		0 W	0	
Task Lighting	0 W	0		0 W	0	
Electric Equipment	10621 W	36239		0 W	0	
People	46	14332		0	0	
Infiltration		0			0	
Miscellaneous		0			0	
Safety Factor	10% / 10%	6426	1536	10%	641	0
>> Total Zone Loads		**70991**	**16900**		**7051**	**0**
Zone Conditioning		71595	16900		6456	0
Plenum Wall Load	0%	0		0	0	
Plenum Roof Load	0%	0		0	0	
Plenum Lighting Load	0%	0		0	0	
Return Fan Load	3920 CFM	0		3920 CFM	0	
Ventilation Load	492 CFM	12558	13124	492 CFM	27001	0
Supply Fan Load	3920 CFM	0		3920 CFM	0	
Space Fan Coil Fans		0			0	
Duct Heat Gain / Loss	0%	0		0%	0	
>> Total System Loads		**84153**	**30024**		**27907**	**0**
Central Cooling Coil		84153	30026		0	0
Central Heating Coil		0			27907	
>> Total Conditioning		**84153**	**30026**		**27907**	**0**
Key:	**Positive values are clg loads**			**Positive values are htg loads**		
	Negative values are htg loads			**Negative values are clg loads**		

Zone Design Load Summary for RTU -1

Zone 1	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1700			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 99.9 °F / 78.7 °F			HEATING OA DB / WB 26.4 °F / 24.6 °F		
	OCCUPIED T-STAT 75.0 °F			OCCUPIED T-STAT 70.0 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	70 ft²	4949	-	70 ft²	-	-
Wall Transmission	296 ft²	2387	-	296 ft²	3112	-
Roof Transmission	48 ft²	327	-	48 ft²	243	-
Window Transmission	70 ft²	899	-	70 ft²	1654	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	39 ft²	1204	-	39 ft²	935	-
Floor Transmission	1100 ft²	0	-	1100 ft²	466	-
Partitions	0 ft²	0	-	0 ft²	0	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	1146 W	3909	-	0 W	0	-
Task Lighting	0 W	0	-	0 W	0	-
Electric Equipment	10621 W	36239	-	0 W	0	-
People	46	14332	-	0	0	-
Infiltration		0	0		0	0
Miscellaneous		0	0		0	0
Safety Factor	10% / 10%	6426	1536	10%	641	0
>> Total Zone Loads		**70991**	**16900**		**7051**	**0**

Space Design Load Summary for RTU -1

TABLE 1.1.A. Component Loads For Space "ADA Toilet" In Zone "Zone 1"

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1400			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 101.1 °F / 79.0 °F			HEATING OA DB / WB 26.4 °F / 24.6 °F		
	OCCUPIED T-STAT 75.0 °F			OCCUPIED T-STAT 70.0 °F		
SPACE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	0 ft²	0	0 ft²	0		
Wall Transmission	69 ft²	556	69 ft²	724		
Roof Transmission	48 ft²	465	48 ft²	243		
Window Transmission	0 ft²	0	0 ft²	0		
Skylight Transmission	0 ft²	0	0 ft²	0		
Door Loads	0 ft²	0	0 ft²	0		
Floor Transmission	0 ft²	0	48 ft²	139		
Partitions	0 ft²	0	0 ft²	0		
Ceiling	0 ft²	0	0 ft²	0		
Overhead Lighting	0 W	0	0 W	0		
Task Lighting	0 W	0	0 W	0		
Electric Equipment	30 W	123	0 W	0		
People	1	296	1	0		
Infiltration		0	0	0		
Miscellaneous		0	0	0		
Safety Factor	10% / 10%	143	10%	111		
>> Total Zone Loads		**1573**	**206**	**1218**		

TABLE 1.1.B. Envelope Loads For Space "ADA Toilet" In Zone "Zone 1"

	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(ft²)	(BTU/(hr·ft²·°F))	Coeff.	(BTU/hr)	(BTU/hr)	(BTU/hr)
E EXPOSURE						
WALL	68	0.253		556		724
H EXPOSURE						
ROOF	48	0.121		465		243

Space Design Load Summary for RTU -1

TABLE 1.2.A. Component Loads For Space "Bar Counter" In Zone "Zone 1"

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 2300			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 65.3 °F / 60.5 °F			HEATING OA DB / WB 26.4 °F / 24.6 °F		
	OCCUPIED T-STAT 75.0 °F			OCCUPIED T-STAT 70.0 °F		
SPACE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	0 ft²	0	0 ft²	0		
Wall Transmission	0 ft²	0	0 ft²	0		
Roof Transmission	0 ft²	0	0 ft²	0		
Window Transmission	0 ft²	0	0 ft²	0		
Skylight Transmission	0 ft²	0	0 ft²	0		
Door Loads	0 ft²	0	0 ft²	0		
Floor Transmission	170 ft²	0	170 ft²	0		
Partitions	0 ft²	0	0 ft²	0		
Ceiling	0 ft²	0	0 ft²	0		
Overhead Lighting	237 W	809	0 W	0		
Task Lighting	0 W	0	0 W	0		
Electric Equipment	237 W	809	0 W	0		
People	11	3081	0	0		
Infiltration		0	0	0		
Miscellaneous		0	0	0		
Safety Factor	10% / 10%	470	297	10%	0	0
>> Total Zone Loads		**5169**	**3268**		**0**	**0**

TABLE 1.2.B. Envelope Loads For Space "Bar Counter" In Zone "Zone 1"

	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(ft²)	(BTU/(hr·ft²·°F))	Coeff.	(BTU/hr)	(BTU/hr)	(BTU/hr)

Space Design Load Summary for RTU -1

TABLE 1.3.A. Component Loads For Space "Dry Storage /Office" In Zone "Zone 1"

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 2300			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 65.3 °F / 60.5 °F			HEATING OA DB / WB 26.4 °F / 24.6 °F		
	OCCUPIED T-STAT 75.0 °F			OCCUPIED T-STAT 70.0 °F		
SPACE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	0 ft²	0	0 ft²	0		
Wall Transmission	68 ft²	607	68 ft²	713		
Roof Transmission	0 ft²	0	0 ft²	0		
Window Transmission	0 ft²	0	0 ft²	0		
Skylight Transmission	0 ft²	0	0 ft²	0		
Door Loads	0 ft²	0	0 ft²	0		
Floor Transmission	99 ft²	0	99 ft²	163		
Partitions	0 ft²	0	0 ft²	0		
Ceiling	0 ft²	0	0 ft²	0		
Overhead Lighting	253.99	866	0	0		
Task Lighting	0 W	0	0	0		
Electric Equipment	10000 W	34120	0	0		
People	4	2160	0	0		
Infiltration		0	0	0		
Miscellaneous		0	0	0		
Safety Factor	10% / 10%	3701	376	10%	0	0
>> Total Zone Loads		**40716**	**4570**		**0**	**0**

TABLE 1.3.B. Envelope Loads For Space "Dry Storage /Office" In Zone "Zone 1"

	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(ft²)	(BTU/(hr·ft²·°F))	Coeff.	(BTU/hr)	(BTU/hr)	(BTU/hr)
E EXPOSURE						
WALL	68	0.253		607		713

Space Design Load Summary for RTU -1

TABLE 1.4.A. Component Loads For Space "Kitchen" In Zone "Zone 1"

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jan 2300			HEATING DATA AT DES HTG		
	COOLING OA DB / WB 65.3 °F / 60.5 °F			HEATING OA DB / WB 26.4 °F / 24.6 °F		
	OCCUPIED T-STAT 75.0 °F			OCCUPIED T-STAT 70.0 °F		
SPACE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	0 ft²	0	0 ft²	0		
Wall Transmission	0 ft²	0	0 ft²	0		
Roof Transmission	0 ft²	0	0 ft²	0		
Window Transmission	0 ft²	0	0 ft²	0		
Skylight Transmission	0 ft²	0	0 ft²	0		
Door Loads	0 ft²	0	0 ft²	0		
Floor Transmission	193 ft²	0	193 ft²	0		
Partitions	0 ft²	0	0 ft²	0		
Ceiling	0 ft²	0	0 ft²	0		
Overhead Lighting	193.99	662	0	0		
Task Lighting	0 W	0	0	0		
Electric Equipment	10000 W	34120	0	0		
People	4	2160	0	0		
Infiltration		0	0	0		
Miscellaneous		0	0	0		
Safety Factor	10% / 10%	3701	376	10%	0	0
>> Total Zone Loads		**40716**	**4570**		**0**	**0**

TABLE 1.4.B. Envelope Loads For Space "Kitchen" In Zone "Zone 1"

	Area	U-Value	Shade	COOLING TRANS	COOLING SOLAR	HEATING TRANS
	(ft²)	(BTU/(hr·ft²·°F))	Coeff.	(BTU/hr)	(BTU/hr)	(BTU/hr)

Space Design

System Psychrometrics for RTU -1

Project Name: Ajeena Project
Prepared by: M AMIR
10/14/2025
02:29PM

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (°F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	31.4	0.00158	402	400	21501	0
Vent - Return Mixing	Outlet	64.4	0.00158	3920	461		
Central Cooling Coil	Outlet	64.4	0.00158	3920	461	0	0
Central Heating Coil	Outlet	71.1	0.00158	3920	461	23587	
Supply Fan	Outlet	71.1	0.00158	3920	461	0	
Cold Supply Duct	Outlet	71.1	0.00158	3920	461		
Zone Air		69.5	0.00158	3920	470	6409	0
Return Plenum	Outlet	69.5	0.00158	3920	470	0	

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080, At site altitude = 1.063 BTU/(hr·CFM·F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6, At site altitude = 4671.7 BTU/(hr·CFM)
Site Altitude = 439.6 ft

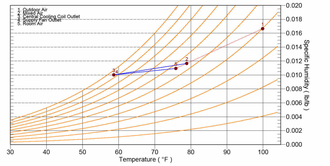
TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (°F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
Zone 1	-15013	Heating	-6406	69.5	3920	470	0	0

System Psychrometrics for RTU -1

Project Name: Ajeena Project
Prepared by: M AMIR
10/14/2025
02:29PM

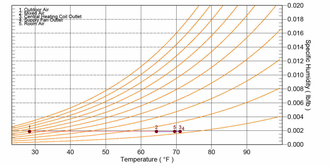
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Altitude: 439.6 ft
Data for: July DESIGN COOLING DAY, 1700



System Psychrometrics for RTU -1

Project Name: Ajeena Project
Prepared by: M AMIR
10/14/2025
02:29PM

Location: Richardson, Texas
Altitude: 439.6 ft
Data for: WINTER DESIGN HEATING



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AJEENA MEDITERRANEAN BAKERY AND COFFEE SHOP
515 W Campbell Rd,
Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/2026

ISSUE DATES

TYPE	DATE
ONWER REVIEW SET	
PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AK
CHECKED BY	SA

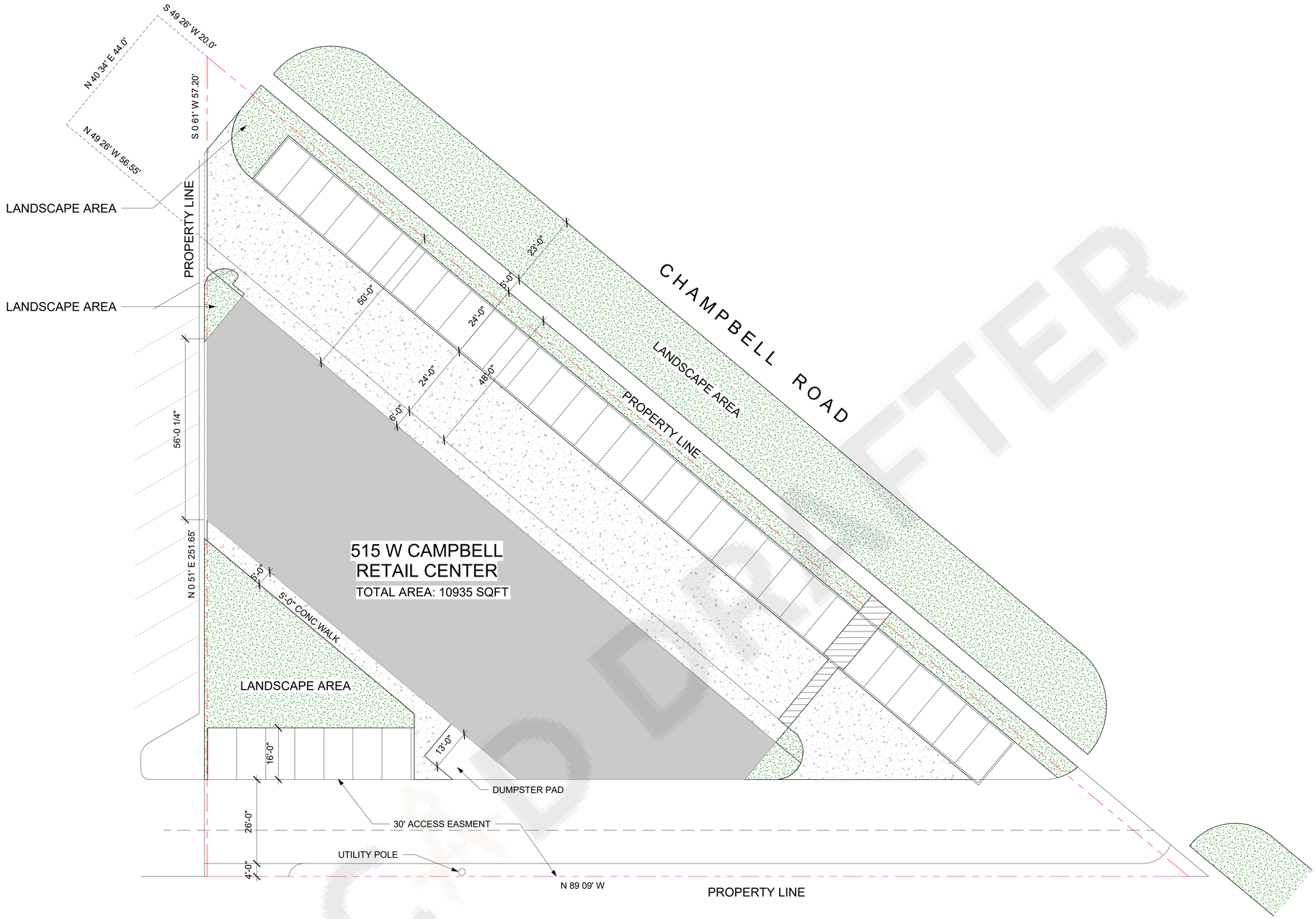
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7003-06

DATE:
13/01/2026

SHEET TITLE:
HAP REPORT

SHEET NUMBER:
A-0.2D

515 W CAMPBELL RD,
Richardson, TX 75080



1 Site Plan

Scale: 1/16" = 1'-0"

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515 W Campbell Rd,
Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/2026

ISSUE DATES

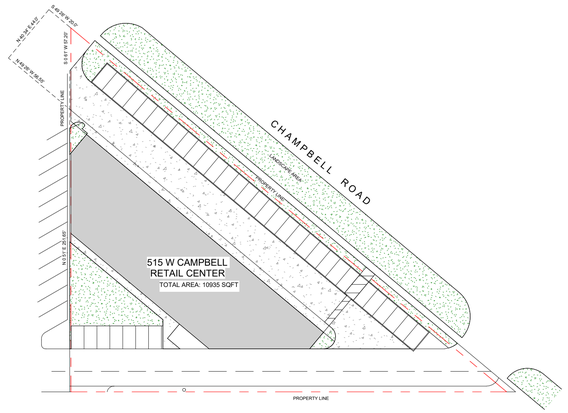
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7003-06

DATE:
13/01/2026

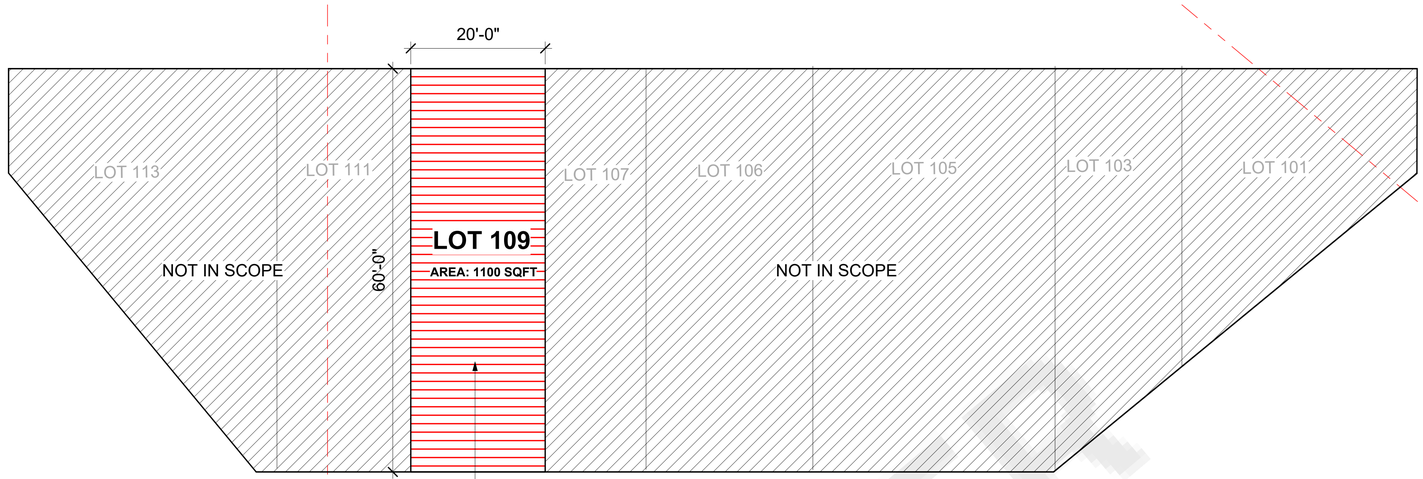
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SITE PLAN

SHEET NUMBER:
A-0.3



1 Key Site Plan

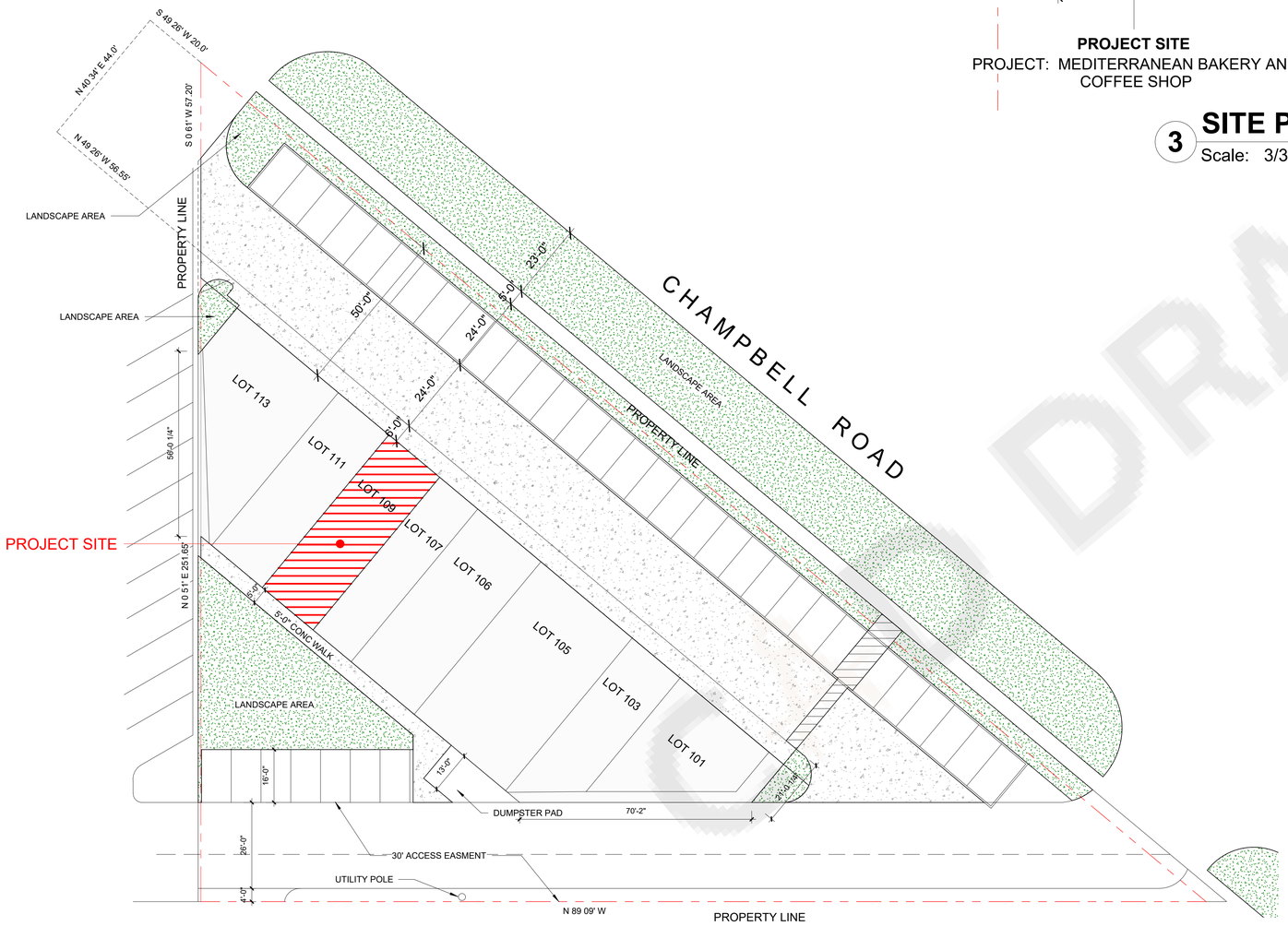
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PROJECT: MEDITERRANEAN BAKERY AND COFFEE SHOP

3 SITE PLAN- 109 LOT

Scale: 3/32" = 1'-0"



2 Site Plan-Lot Working

Scale: 1" = 20'-0"

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515 W Campbell Rd, Richardson, TX 75080

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No.	Description	Date
1	Revision 1	01/07/2026

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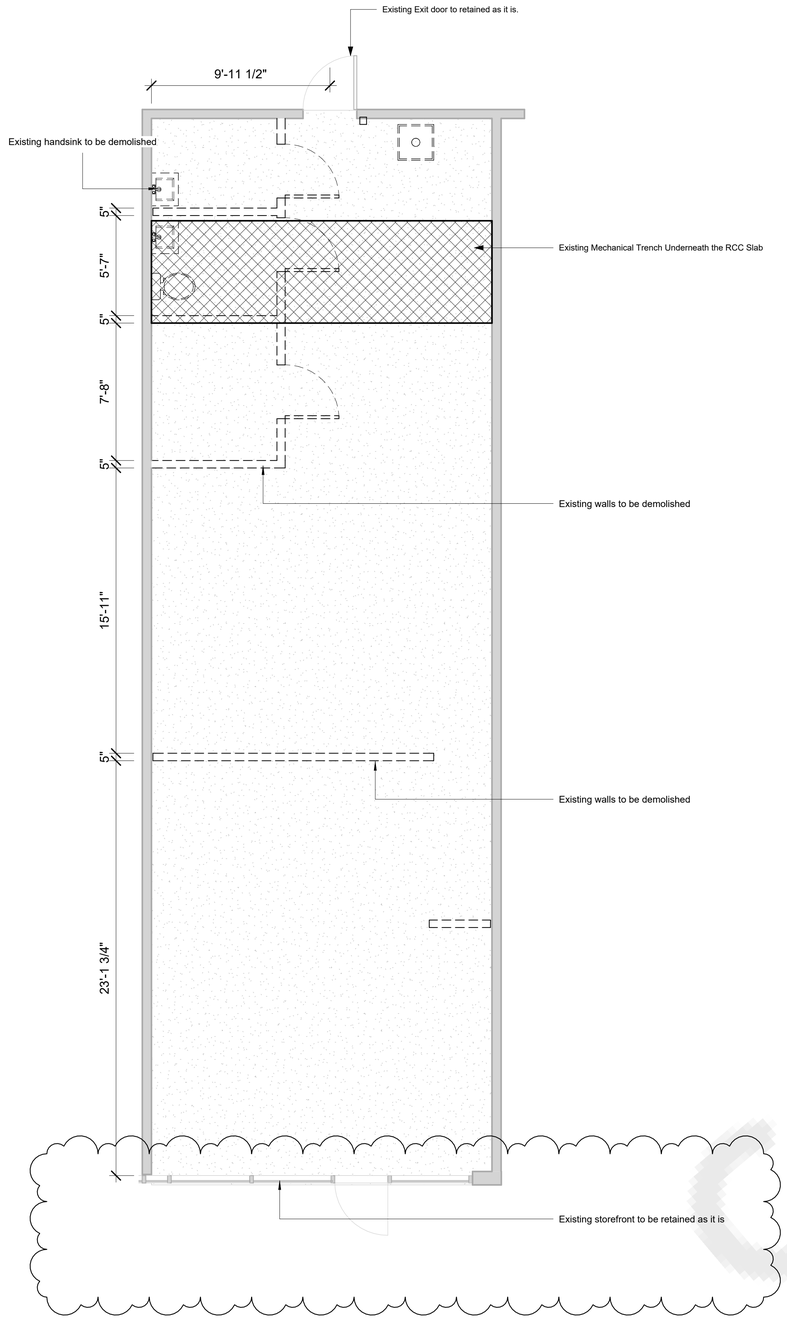
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PROJECT NUMBER: 7003-06

DATE: 13/01/2026

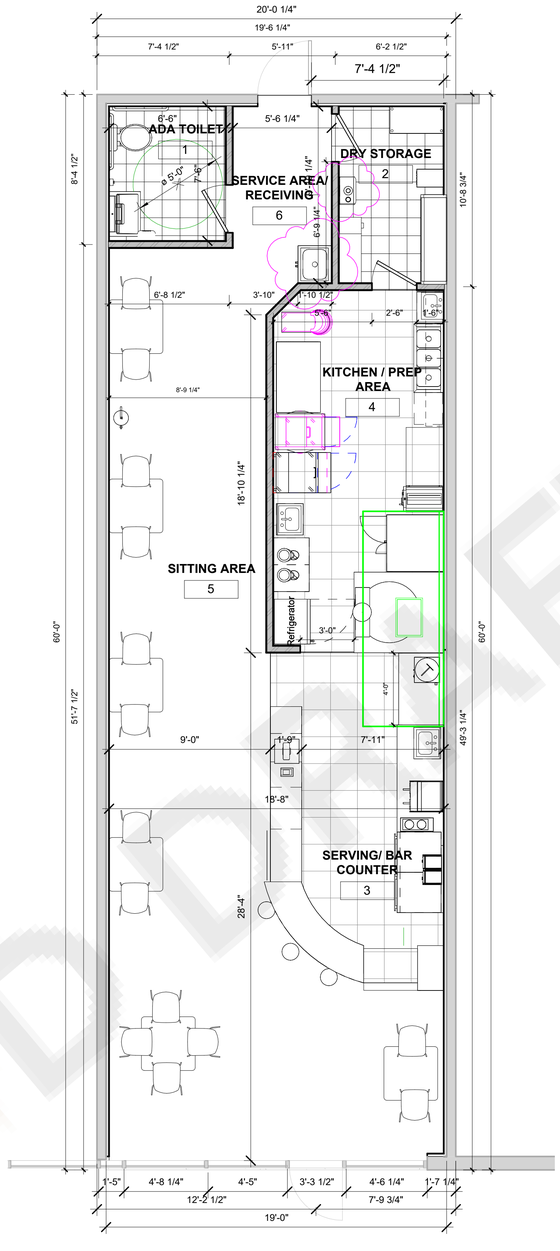
SHEET TITLE: SITE PLAN & LOTS INFO

SHEET NUMBER: A-0.3A



2 Tenant Retail Plan (Existing + Demo)

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



1 Dimension Floor Plan

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

DEMOLITION NOTES

- All demolition work is limited to the interior 1,100 SF tenant space as indicated on the drawings. Scope includes removal of non-load-bearing partitions, doors, finishes, plumbing fixtures, ceiling components, and MEP devices as shown.
- Contractor shall verify all existing conditions and dimensions on site prior to starting work. Any discrepancies between plans and field conditions shall be reported to the Architect/Engineer for direction.
- All walls scheduled for demolition have been identified as non-load-bearing. If any concealed load-bearing or structural elements are discovered during demolition, work shall immediately stop and the Architect/Engineer shall be notified.
- Protect all existing building shell components including storefront, exterior facade, exterior door assemblies, and adjacent tenant walls. Existing storefront system shall remain as-is.
- Disconnect, isolate, and cap all utilities (electrical, plumbing, mechanical, and gas) associated with removed fixtures and equipment. Work shall be performed only by licensed trades and according to NEC, IPC, IMC, and local amendments.
- Remove existing plumbing fixtures (including sinks) as noted. Cap and seal all abandoned water supply lines and waste piping watertight and airtight. Protect existing grease waste system from debris infiltration.
- Remove electrical devices, switches, outlets, lights, conduit, and wiring back to source as indicated. Where devices are removed, circuits shall be terminated safely at the panel by a licensed electrician.
- Remove existing ceiling tiles, ceiling grid, and mechanical components where shown. In designated open-ceiling areas, remove abandoned conduit, ductwork, wiring, and miscellaneous supports to create a clean exposed ceiling condition.
- Protect the existing mechanical trench below slab. No cutting, chipping, drilling, or penetration of the concrete slab is permitted without written structural approval.
- Maintain egress paths at all times. Exit doors shall not be blocked or disabled. Temporary barriers must comply with life-safety and fire-safety requirements.
- Provide dust control measures throughout demolition. Seal off adjacent areas and keep the site clean. All debris shall be removed daily and disposed of per city regulations.
- Coordinate work with property management and adjacent tenants. Noise-producing demolition must occur only during approved hours established by the building owner/manager.
- Contractor shall notify the Owner and Architect immediately if any hazardous materials or unsafe conditions are encountered.
- All demolition shall comply with City of Richardson requirements, the 2021 IBC, 2021 IEBC, 2021 IFC, 2020 NEC, 2021 IPC/IMC, and all applicable local amendments.

0 2' 4' 8'
0 2"
1/4" = 1'-0"

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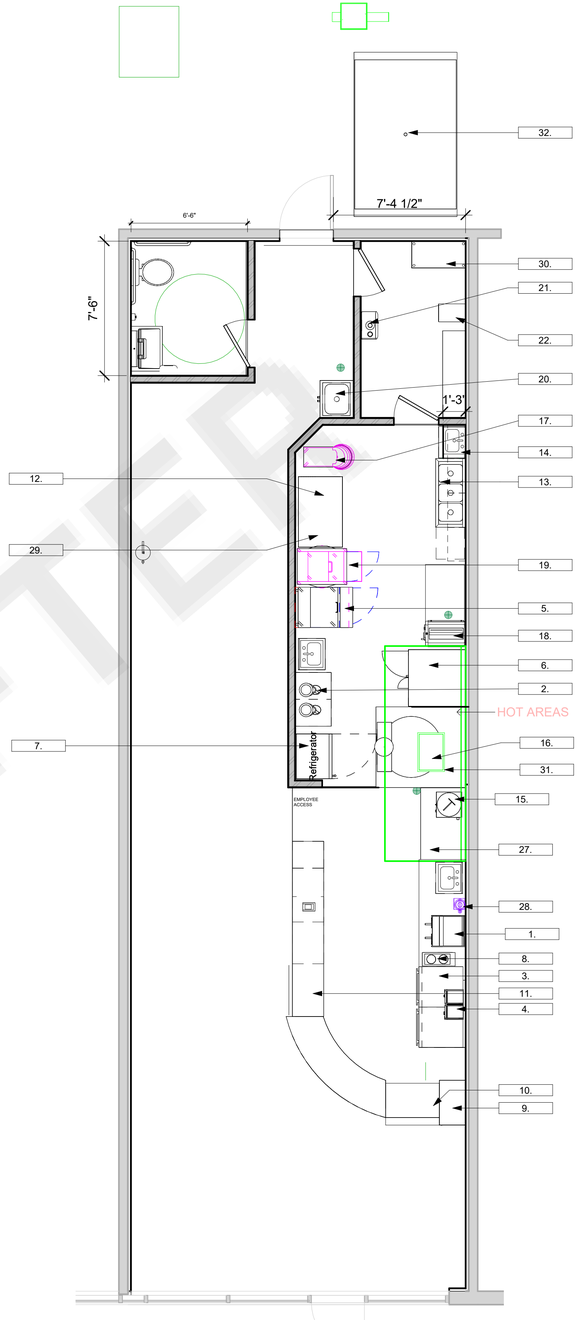
DATE:
13/01/2026

SHEET TITLE:
FLOOR PLAN

SHEET NUMBER:
A-1.0

NEW EQUIPMENT LIST

Key Value	Keynote Text
1.	Espresso Machine
2.	Espresso Grinder
3.	Under Counter small Fridge
4.	Double Commercial Sandwitch
5.	Salad and Sandwitch Prep Table
6.	Gas Convection Oven
7.	Reachin Commercial Refrigerator
8.	Coffee Brewer
9.	Ice Maker
10.	Refrigerator Display Case
11.	Hot Display Case
12.	2 Door Under counter Refrigerator
13.	3 Compartment Sink
14.	Hand Sink
15.	Bread Maker (Saj)
16.	Baking Oven
17.	Dough Mixer
18.	Semi Automatic Dough Flattener
19.	Dough Divider
20.	Mop Cabinet
21.	Gas Water Heater
22.	Employees Locker
27.	Work Table Commercial
28.	Water Filtration
29.	Prep Table
30.	Wire Shelf For Chemicals
31.	Kitchen Hood with MUA
32.	Grease Trap with Sample Well



1 Food Equipment Floor Plan
Scale: 1/4" = 1'-0"

0 1' 2' 4'
0 2"
1/2" = 1'-0"

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PROJECT NUMBER: 7003-06

DATE: 13/01/2026

SHEET TITLE: FOOD EQUIPMENT PLAN

SHEET NUMBER: A-1.1

FOOD SERVICE EQUIPMENT SCHEDULE

ITEM NO:	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS	SUPPLIED BY	INSTALLED BY	VOLTS	PHASE	AMPS (CIRCUIT SIZE)	NSF	UL	IMAGE		
1	1	ESPRESSO MACHINE	ESPRESSO PARTS	SKU: LM_LINEA2GR_AV	La Marzocco Linea Classic S 2 Group AV (Automatic) Espresso Machine			220 V	1	30	Certified (NSF 4)	Certified (UL 197)			
2	2	ESPRESSO GRINDER	MAJESTY COFFEE		Nuova Simonelli MDXS			110 V	1	20	Certified (NSF 8)	Certified (UL 763)			
3	2	UNDER COUNTER SMALL FRIDGE	AVANTCO REFRIGERATOR	178au27rhc	Avantco AU-27R-HC 27" Undercounter Refrigerator			120 V	1	20	Certified (NSF 7)	Certified (UL 471)			
4	1	DOUBLE COMMERCIAL SANDWITCH	KATOM		Winco ESG-2 Double Commercial Sandwich Press w/ Cast Iron Smooth Plates, 120v			120 V	1	20	Certified	Certified (120V)			
5	1	SALAD AND SANDWITCH PREP TABLE	Kutano		Kutano 27" Sandwitch Prep Table			115 V	1	20	Certified (NSF 7)	Certified (115V)			
6		Gas Convection Oven						110 V	1	20					
7	1	REACHIN COMMERCIAL REFRIGERATOR	KATOM	451-SUMG200NG	Garland SUMG-200 Summit Double Full Size Natural Gas Convection Oven - 106,000 BTU			120 V	1	20	Certified	CSA Gas Certified			
8	1	COFFEE BREWER	KATOM	Curtis DS00GT	Curtis DS00GT12A000 1 3/5 gal Airpot Coffee Brewer w/ Digital Programming, 120v			120 V	1	20	Certified	Certified (120V)			
9	1	ICE MAKER	EUHOMY	IM-02	EUHOMY Commercial Ice Maker Machine, 100lbs/24H Stainless Steel Under Counter ice Machine with 33lbs Ice Storage Capacity, Freestanding Ice Maker			120 V	1	20	Certified	ETL/UL Certified			
10	1	REFRIGERATOR DISPLAY CASE	DXBaoxue		Refrigerated Display Case 14Cu.Ft/396L, Commercial Bakery Display Refrigerator 4 Shelves, Glass Door Standing Pastry Display Case with LED Lighting, Sliding Rear Door, Frost-Free Air-Cooling			120 V	1	20	Certified (NSF 7)	Certified			
11	1	HOT DISLPLAY CASE	KATOM	612-HFDC00005	SandenVendo 35 1/3" Dual Service Countertop Heated Display Case - (3) Shelves, 115v (HFDC00005)			115 V	1	20	Certified	UL Listed (115V)			
12	1	2 DOOR UNDER COUNTER REFRIGERATOR	AVANTCO REFRIGERATOR	Item #: 178au48rhc	Avantco AU-48R-HC 48" Undercounter Refrigerator			120 V	1	20	Certified (NSF 7)	ETL/UL Certified			
13	1	3 COMPARTMENR SINK													
14		HAND SINK													
15	1	BREAD MAKER (SAJ)	BAKRICO	Model M.GS	GAS SAJ			110 V	1	20	Complaint	Complaint			
16	1	BAKING OVEN	BAKRICO	Model M.MGO	Manual Gas Oven						Complaint	Caomplaint			
17	1	DOUGH MIXER	BAKRICO	Model M.SDM	DOUGH MIXER			220 V	1	20	Certified/Compliant	Certified/Compliant			
18	1	SEMI AUTOMATIC DOUGH FLATTENER	BAKRICO	Model M.SDF	SEMI AUTOMATIC DOUGH FLATTENER			220 V	1	20	Certified/Compliant	Certified/Compliant			

DRAFT

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7003-06

DATE:
13/01/2026

SHEET TITLE:
EQUIPMENT SCHEDULE

SHEET NUMBER:
A-1.2

19	1	DOUGH DIVIDER	BAKRICO	Model M.SDD	SEMI-AUTOMATIC DOUGH DIVIDER			220 V	1	20	Certified/Compliant	Certified/Compliant			
20		MOP CABINET	QF Eagle F1916 VSCS	F1916-VSCS	Stainless Steel, Floor Mounted, No Electrical Required										
21	1	GAS WATER HEATER	Rinnai America Corporation		WiFi-capable control; recirculation kit optional; isolation valves & service access required.			120V	1	20					
27	1	WORK TABLE COMMERCIAL	QF Eagle Worktable Rolled Cat	WT-3048-RE (30" × 48")	Commercial Work Table, Rolled Edge, Stainless Steel Top, Undershelf										
28	1	WATER FILTERATION	BIG BLUE	BIG BLUE 20" × 4.5" FILTER HOUSING	High-flow whole house/commercial water filter housing, suitable for sediment or			120 V	1	20	Certified NSF				
29	1	Glass Door Fridge	Premium LEVELLA	PRF65DX	PRF65DX Single Glass Door Merchandiser Refrigerator -Beverage Display Cooler-6.5 cu ft-Silver			120 V	1	20	NSF 7 / ETL	Certified (115V)			
30		Light Fixtures						120 V	1	20					
31		Kitchen HOOD with MUA													
32		Grease Trap With Sample Well	Park	GT 1250											

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SHEET TITLE: EQUIPMENT SCHEDULE

SHEET NUMBER: A-1.3

General Notes – Floor Finishes

1. All floor finishes shall be installed as per manufacturer's specifications.
2. Substrate shall be leveled, clean, and dry before applying finishes.
3. Provide appropriate transitions between different flooring materials.
4. Slip-resistant finishes shall be used in wet areas (toilets, kitchen, service areas).
5. Expansion joints to be maintained where required.
6. Floor finishes to comply with IBC 2021 and ADA standards where applicable.
7. Contractor to verify finish materials, colors, and patterns with owner before installation.
8. Any discrepancies between the drawings and existing site conditions shall be reported immediately to the Owner

General Notes – Ceilings

1. All ceiling systems shall be installed per manufacturer's recommendations.
2. Acoustical ceiling tiles (ACT) shall be 2' x 2' grid system, unless otherwise noted.
3. Ceiling heights shown are finished ceiling elevations from finished floor.
4. Coordinate ceiling layout with lighting, HVAC and other MEP services.
5. Provide access panels where required for maintenance of utilities above ceiling.
6. Open ceiling areas shall be painted black unless otherwise directed by Owner.
7. All materials shall comply with IBC 2021 fire-resistance and acoustical requirements.
8. Contractor shall verify ceiling heights and conditions on site prior to installation.

FINISHES SCHEDULE

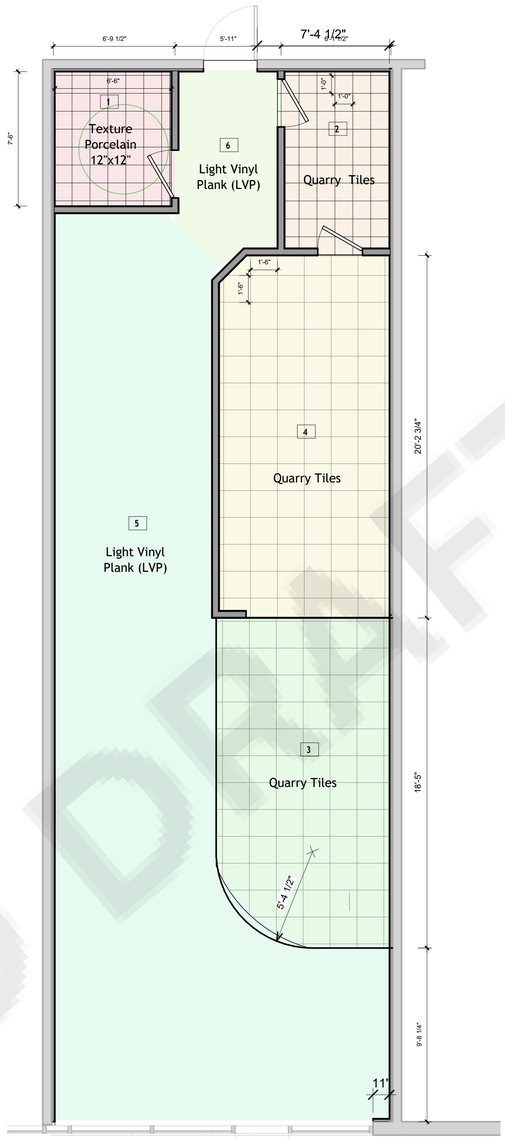
Room Number	Room Name	Base Finish	Floor Finish	Wall Finish	Ceiling Finish	Ceiling Height	Area
1	ADA TOILET	Concrete	Porcelien Tiles on Floor	FRP/1 upto 4ft - Paint till ceiling	Gypsum Board Painted (Sherwin William)	10'-0"	49 SF
2	DRY STORAGE	Concrete	Quarry Tiles with 6" CoveBase	Paint (Semi-Gloss)	2' x 4' ACT System _ Armstrong Commercial Ceiling _ 1911 HRC Ultima Beveled Tegular 2x2x 3/4	10'-0"	58 SF
3	SERVING/ BAR COUNTER	Concrete	Quarry Tiles with 6" CoveBase	Paint (Semi-Gloss)	Rockfon® Planar® and Planar ® Plus Linear Ceiling System _ Metalwood Wood-Look _ 650R Maple	9'-0"	167 SF
4	KITCHEN / PREP AREA	Concrete	Quarry Tiles with 6" CoveBase	FRP/1	2' x 4' ACT System _ Armstrong Commercial Ceiling _ 1911 HRC Ultima Beveled Tegular 2x2x 3/4	10'-0"	190 SF
5	SITTING AREA	Concrete	Alamo Oak Waterproof Rigid Core Luxury Vinyl Plank - Foam Pad 4" vinyl base	Paint (Semi-Gloss)	Exposed concrete or slab sealed with washable clear sealer	10'-6"	549 SF
6	SERVICE AREA/ RECEIVING	Concrete	Alamo Oak Waterproof Rigid Core Luxury Vinyl Plank - Foam Pad 4" vinyl base	Paint (Semi-Gloss)	-	10'-6"	55 SF

CEILING SCHEDULE

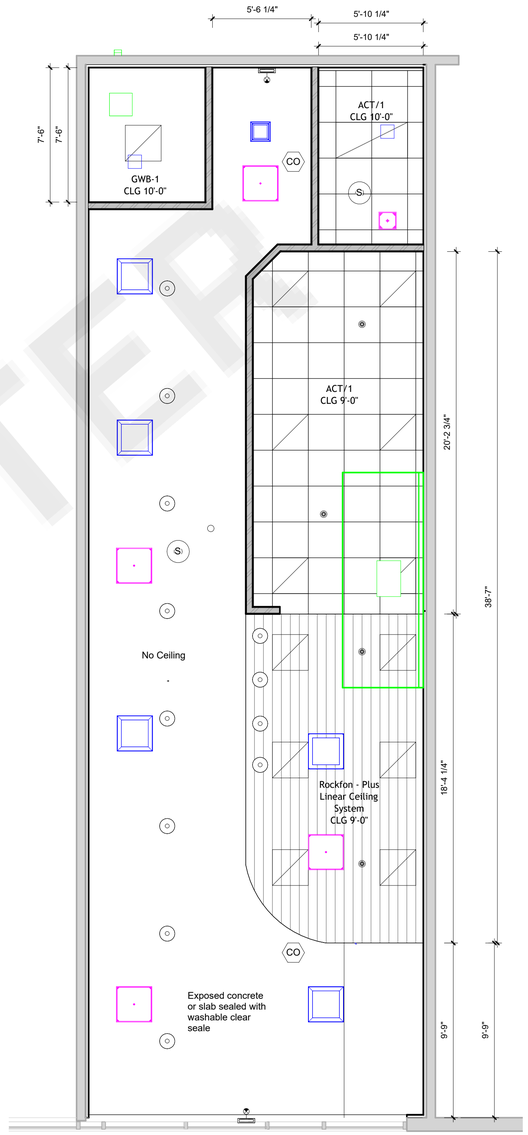
TAG	ROOM LOCATION	Area	Height Offset From Level	REMARKS
GWB-1	ADA Toilet	50 SF	10'-0"	Sherwin Williams _ Harmony - Eggshell, Base - B9W951 _ SW7004 Snowbound Painted 5/8" GWB on Metal Stud
ACT/1	Dry Storage/ Office	58 SF	10'-0"	2' x 4' ACT System _ Armstrong Commercial Ceiling _ 1911 HRC Ultima Beveled Tegular 2x2x 3/4
ACT/1	Kitchen/ Prep Area	194 SF	9'-0"	2' x 4' ACT System _ Armstrong Commercial Ceiling _ 1911 HRC Ultima Beveled Tegular 2x2x 3/4
Rockfon - Plus Linear Ceiling System	Serving Bar	176 SF	9'-0"	Rockfon® Planar® and Planar ® Plus Linear Ceiling System _ Metalwood Wood-Look _ 650R Maple
No Ceiling	Receiving / Dining Area	595 SF	-	Painted White

Rooms Floor Finishies Schedule

Room Number	Room Name	Floor Finish	AREAS
1	ADA TOILET	Porcelien Tiles on Floor	48 SQFT
2	DRY STORAGE	Quarry Tiles with 6" CoveBase	59SQFT
3	SERVING/ BAR COUNTER	Quarry Tiles with 6" CoveBase	170SQFT
4	KITCHEN / PREP AREA	Quarry Tiles with 6" CoveBase	193 SQFT
5	SITTING AREA	Alamo Oak Waterproof Rigid Core Luxury Vinyl Plank - Foam Pad 4" vinyl base	574 SQFT
6	SERVICE AREA/ RECEIVING	Alamo Oak Waterproof Rigid Core Luxury Vinyl Plank - Foam Pad 4" vinyl base	58 SQFT



1 **Flooring Plan**
Scale: 1/4" = 1'-0"



2 **Ceiling Plan**
Scale: 1/4" = 1'-0"

0 2' 4' 8'
0 2'
1/4" = 1'-0"

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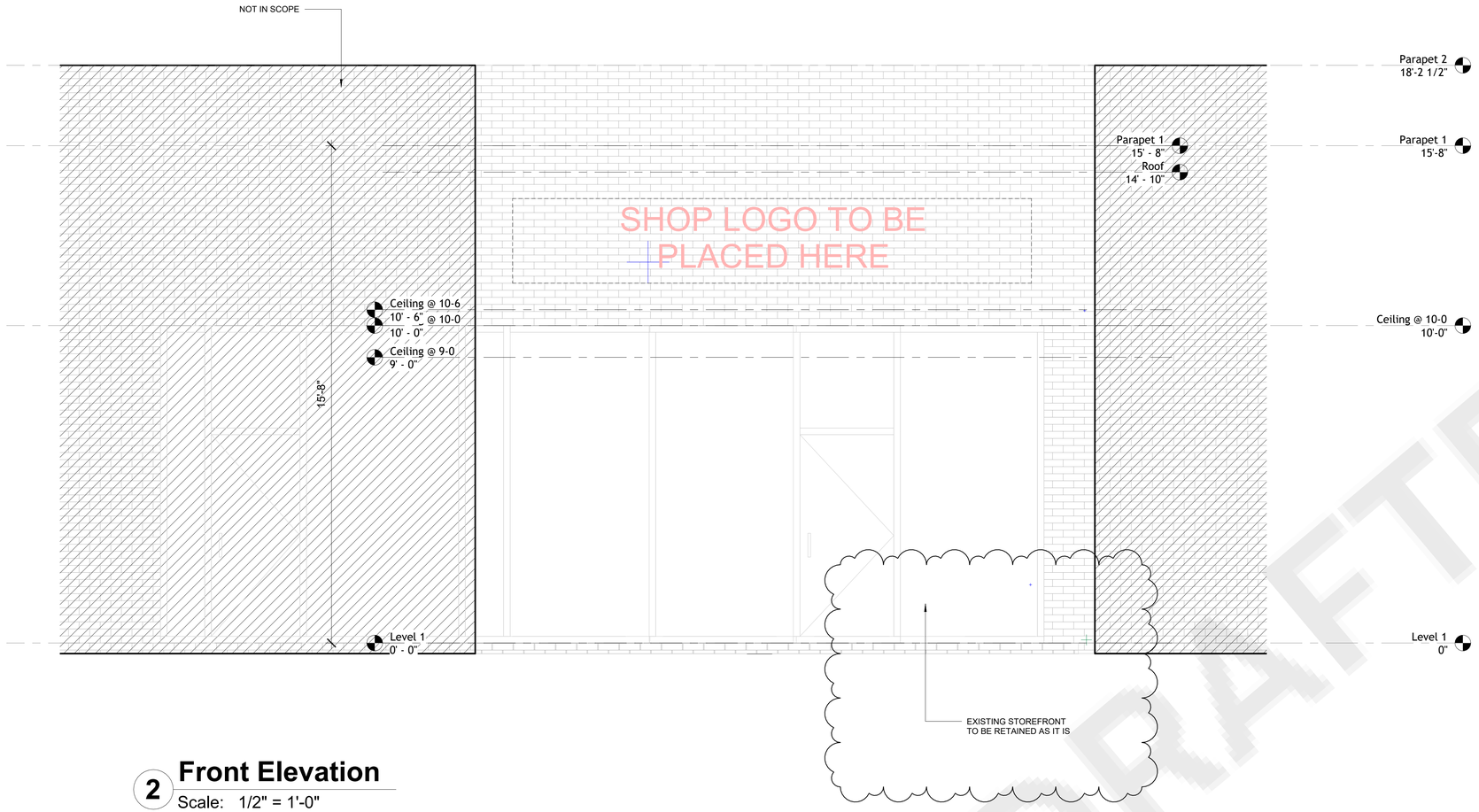
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PROJECT NUMBER: 7003-06

DATE: 13/01/2026

SHEET TITLE: FLOOR & CEILING FINISHES PLAN

SHEET NUMBER: A-1.4



2 Front Elevation

Scale: 1/2" = 1'-0"

Energy Compliance:

- Project shall comply with the City of Richardson adopted International Energy Conservation Code (IECC), Climate Zone 3A.
- Roof insulation minimum R-30. Exterior walls shall provide minimum R-13 cavity + R-3.8 continuous insulation or equivalent performance demonstrated in COMcheck.
- Fenestration shall have a maximum U-Factor of 0.40 and maximum SHGC of 0.25

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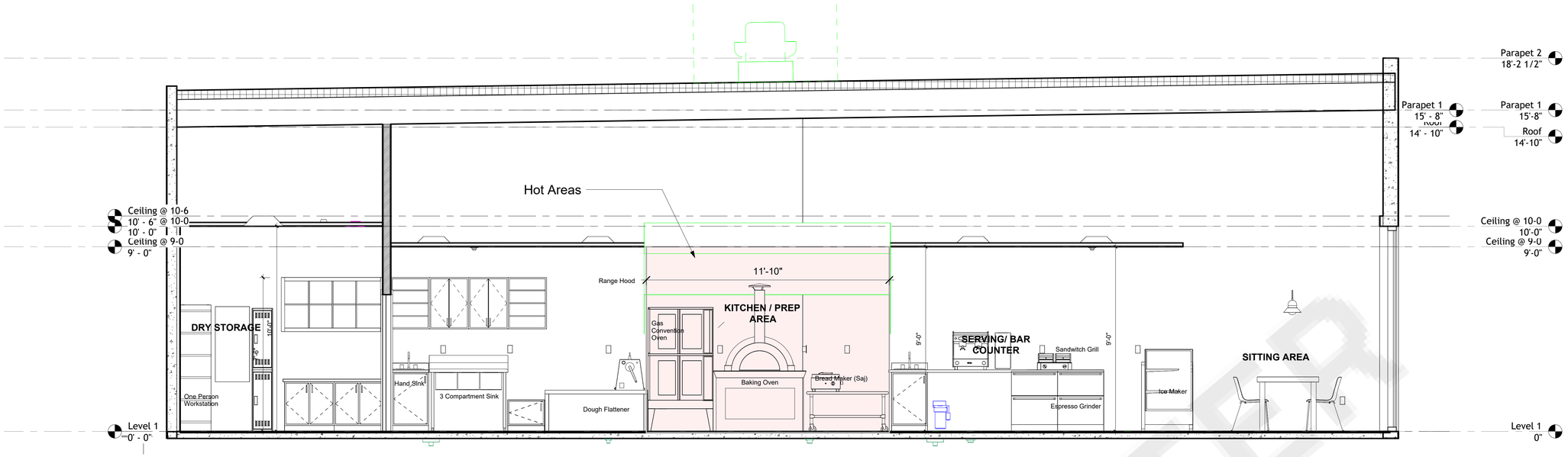
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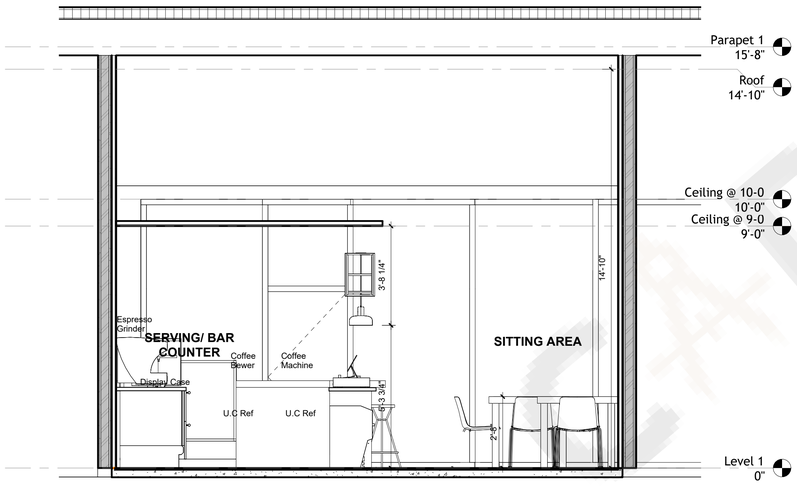
SHEET TITLE:
BUILDING ELEVATION

SHEET NUMBER:
A-2.1



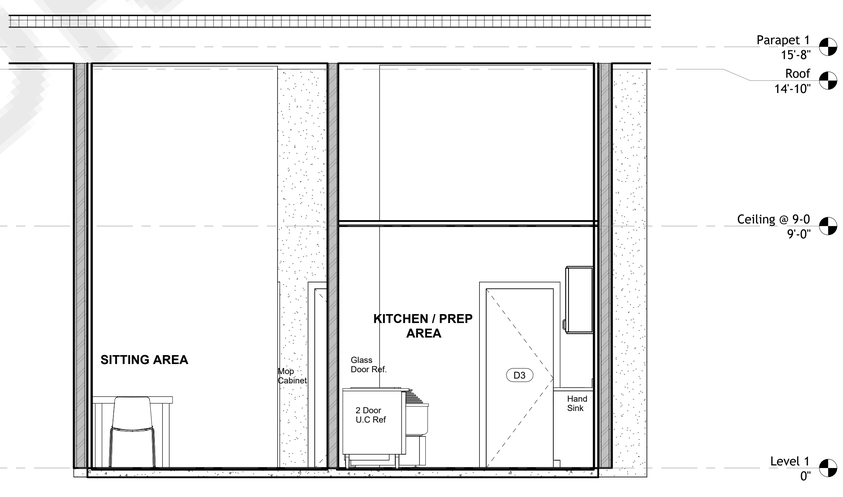
1 **Section 1**

Scale: 3/8" = 1'-0"



2 **Section 2**

Scale: 3/8" = 1'-0"



3 **Section 3**

Scale: 3/8" = 1'-0"

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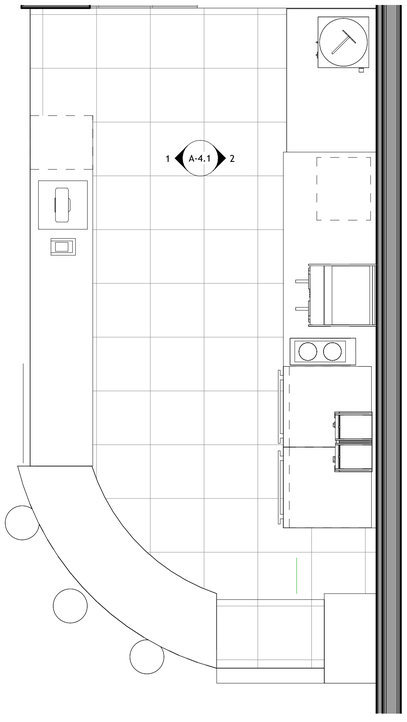
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SHEET TITLE:

BUILDING SECTION

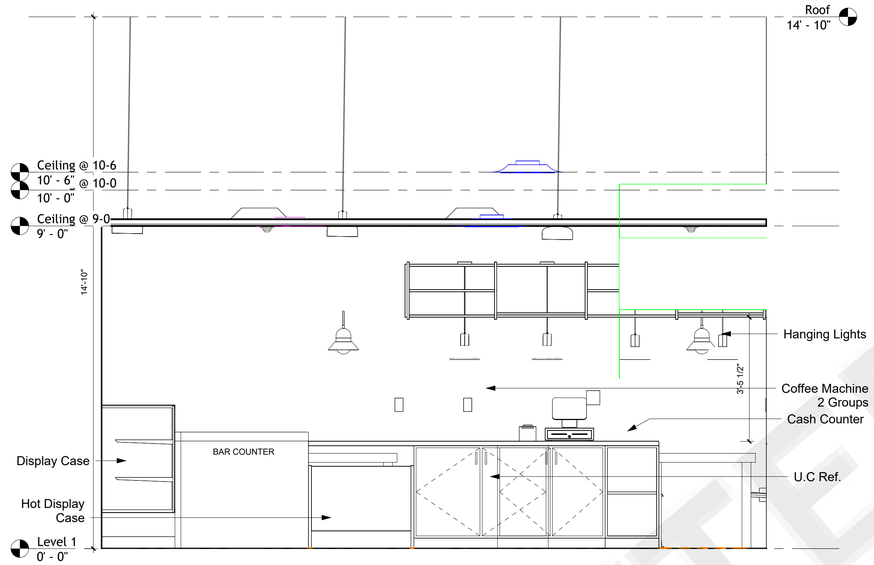
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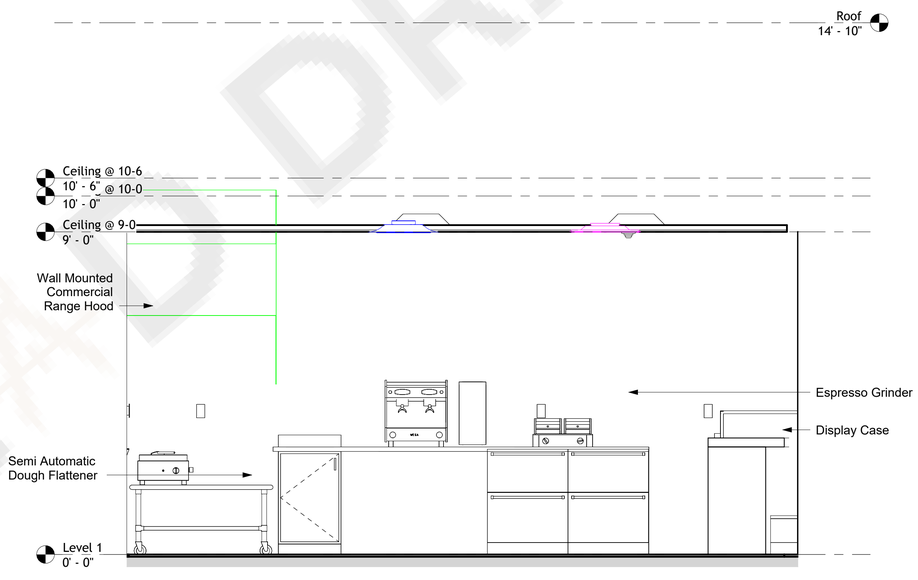
3 Serving / Bar Area Call-Out

Scale: 1/2" = 1'-0"



1 Elevation-2A

Scale: 1/2" = 1'-0"



2 Elevation-2B

Scale: 1/2" = 1'-0"

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1	Revision 1	01/07/2026

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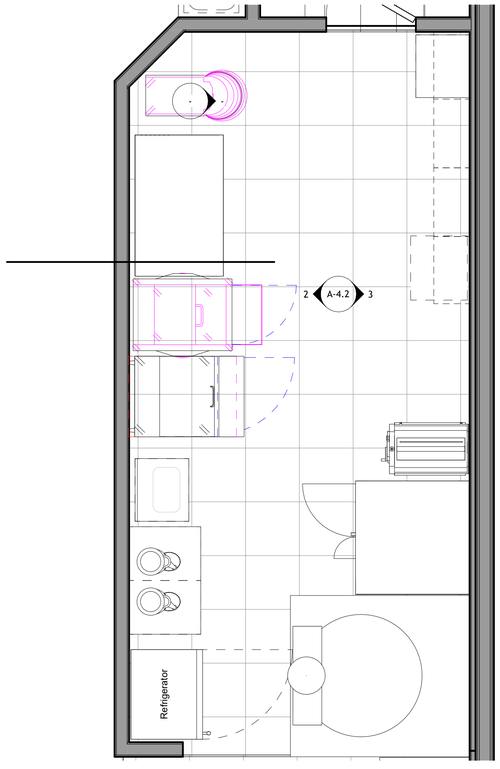
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7003-06

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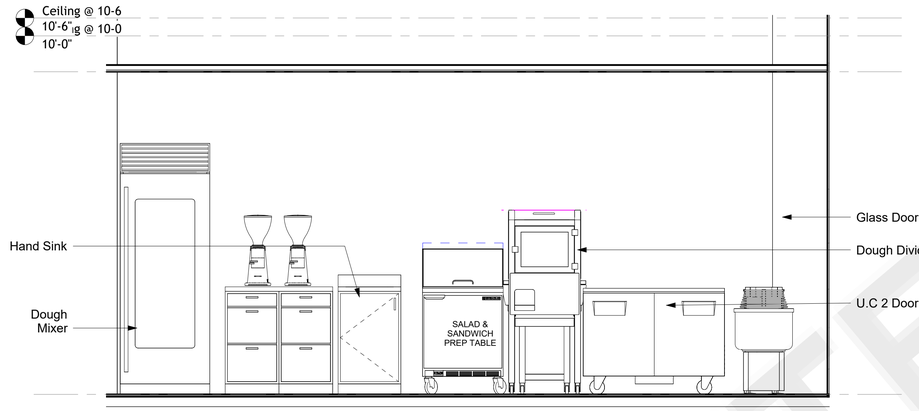
SHEET TITLE:
SERVING & BAR AREA ELEVATION

SHEET NUMBER:
A-4.1



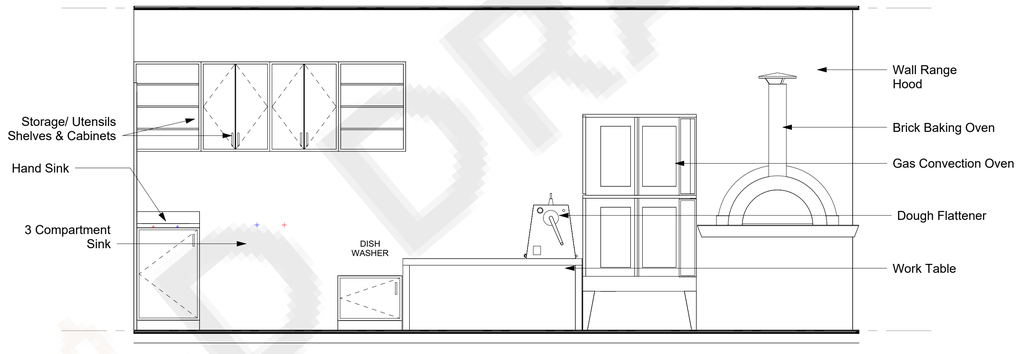
1 Kitchen Call-Out

Scale: 1/2" = 1'-0"



2 Elevation-1B

Scale: 1/2" = 1'-0"



3 Elevation-1A

Scale: 1/2" = 1'-0"

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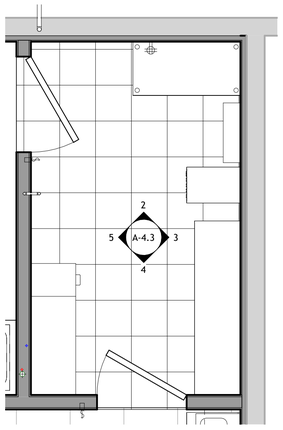
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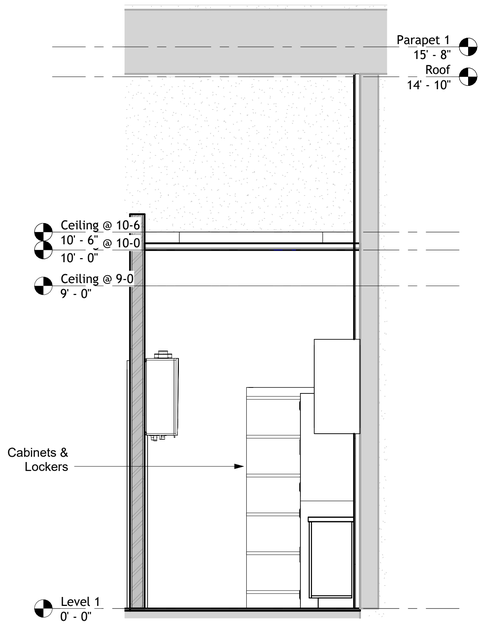
DATE: 13/01/2026

SHEET TITLE: KITCHEN AREA ELEVATIONS

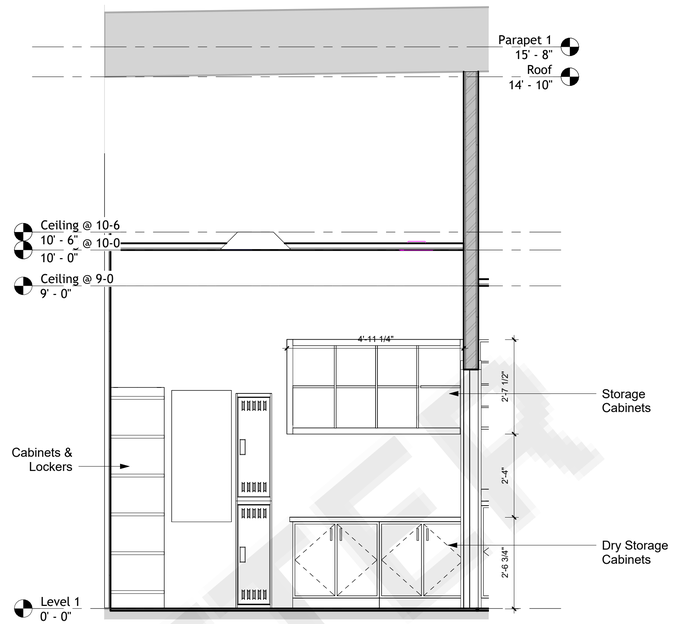
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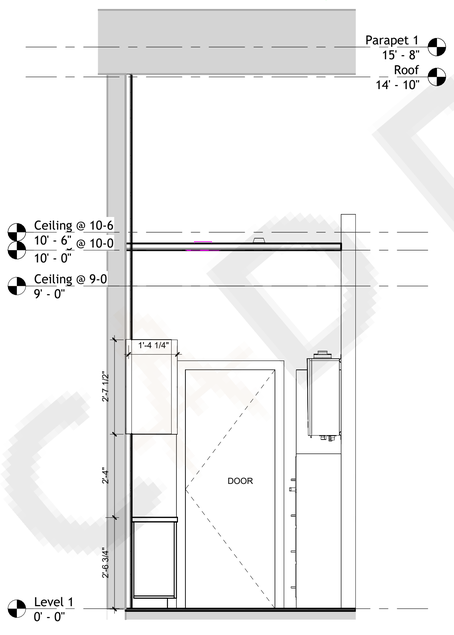
1 STORE ROOM PLAN
Scale: 1/2" = 1'-0"



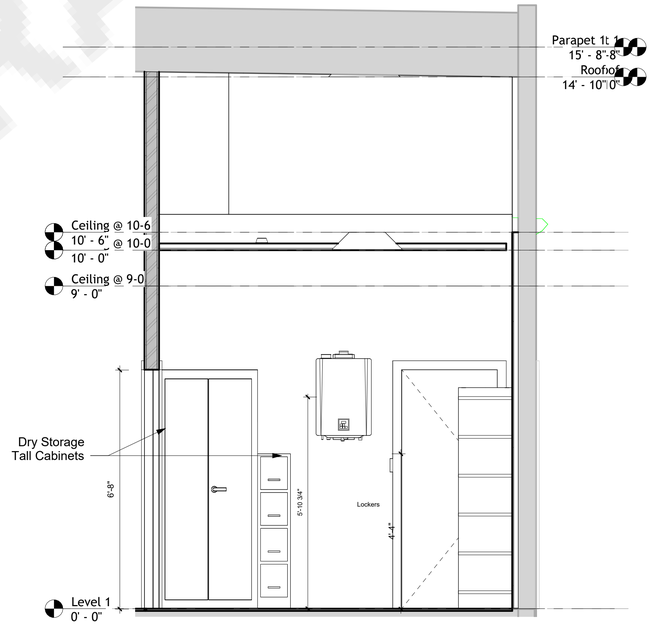
2 Elevation- 3A
Scale: 1/2" = 1'-0"



3 Elevation- 3B
Scale: 1/2" = 1'-0"



4 Elevation- 3C
Scale: 1/2" = 1'-0"



5 Elevation- 3D
Scale: 1/2" = 1'-0"

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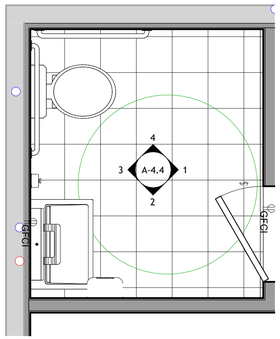
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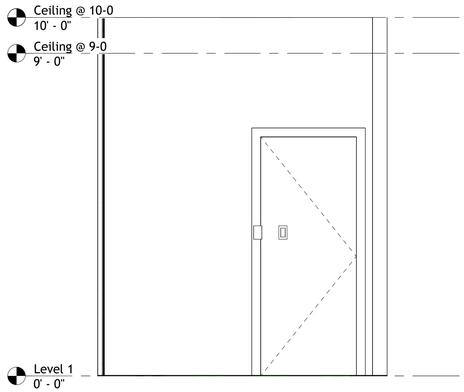
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INTERIOR ELEVATIONS

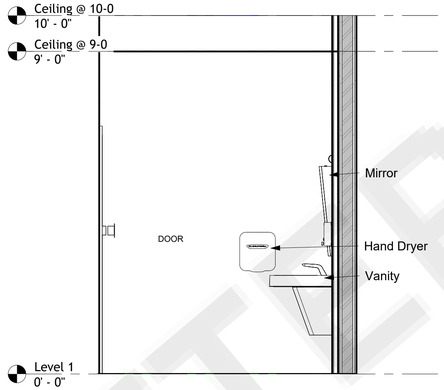
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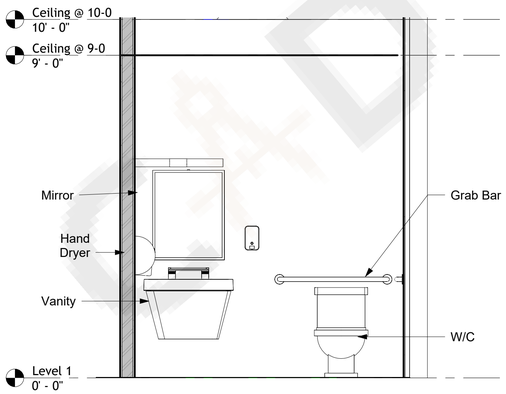
5 ADA Toilet-Call-Out
Scale: 1/2" = 1'-0"



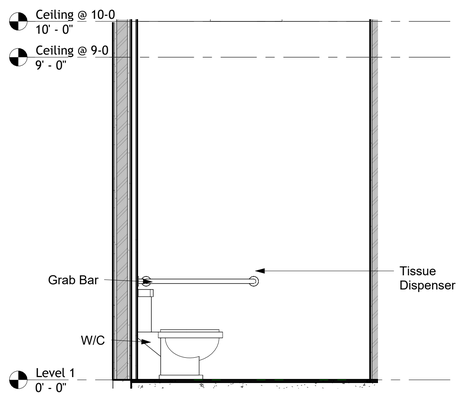
1 Elevation-4A
Scale: 1/2" = 1'-0"



2 Elevation-4B
Scale: 1/2" = 1'-0"



3 Elevation-4C
Scale: 1/2" = 1'-0"



4 Elevation-4D
Scale: 1/2" = 1'-0"

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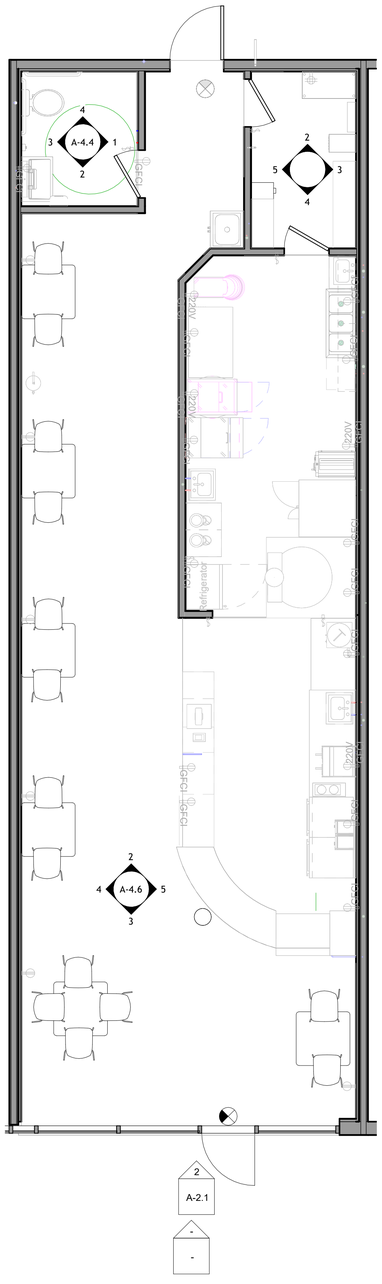
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13/01/2026

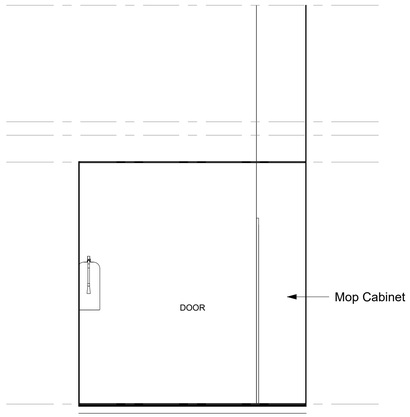
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INTERIOR ELEVATIONS

SHEET NUMBER:
A-4.4



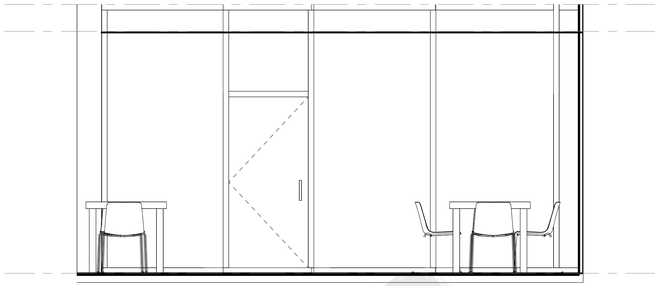
1 Furniture Layout Plan

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



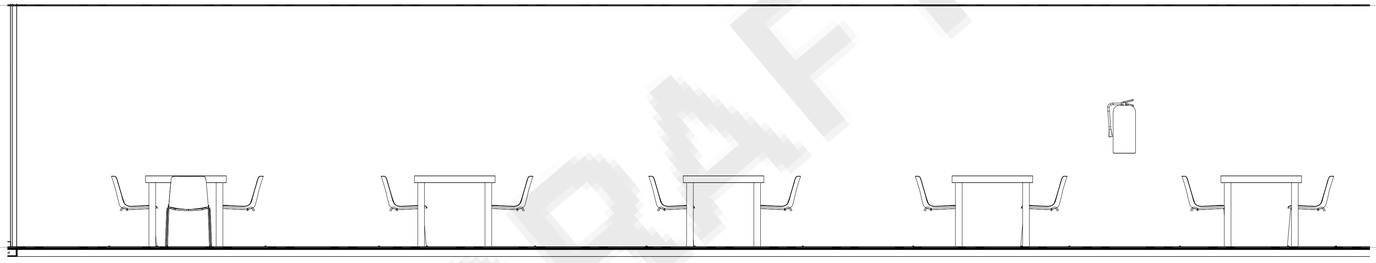
2 Elevation-5A

Scale: 3/8" = 1'-0"



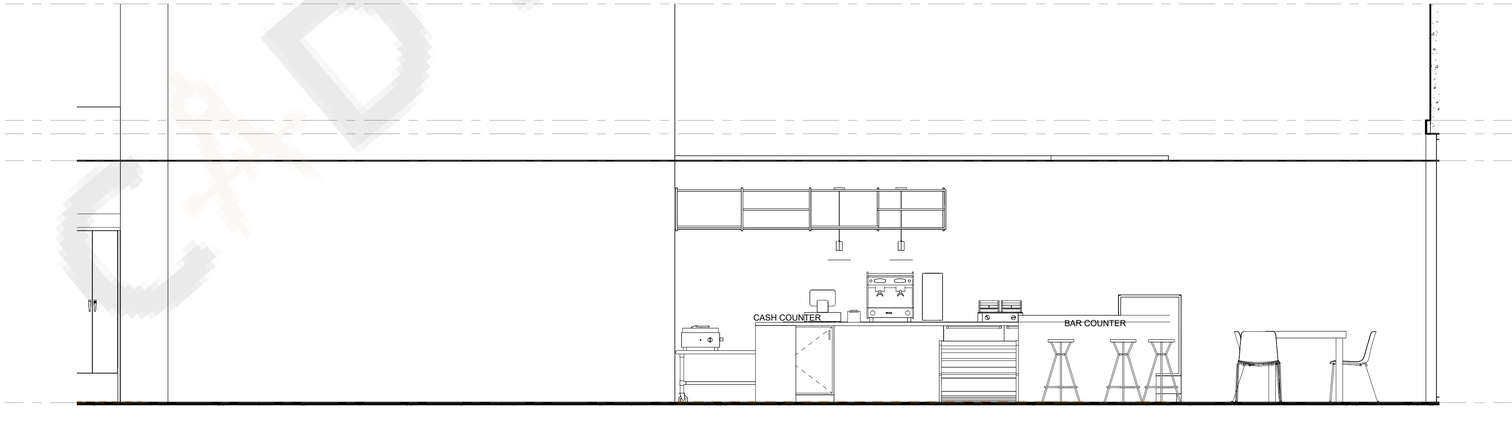
3 Elevation-5B

Scale: 3/8" = 1'-0"



4 Elevation-5C

Scale: 3/8" = 1'-0"



5 Elevation-5D

Scale: 3/8" = 1'-0"

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SHEET TITLE: INTERIOR ELEVATIONS

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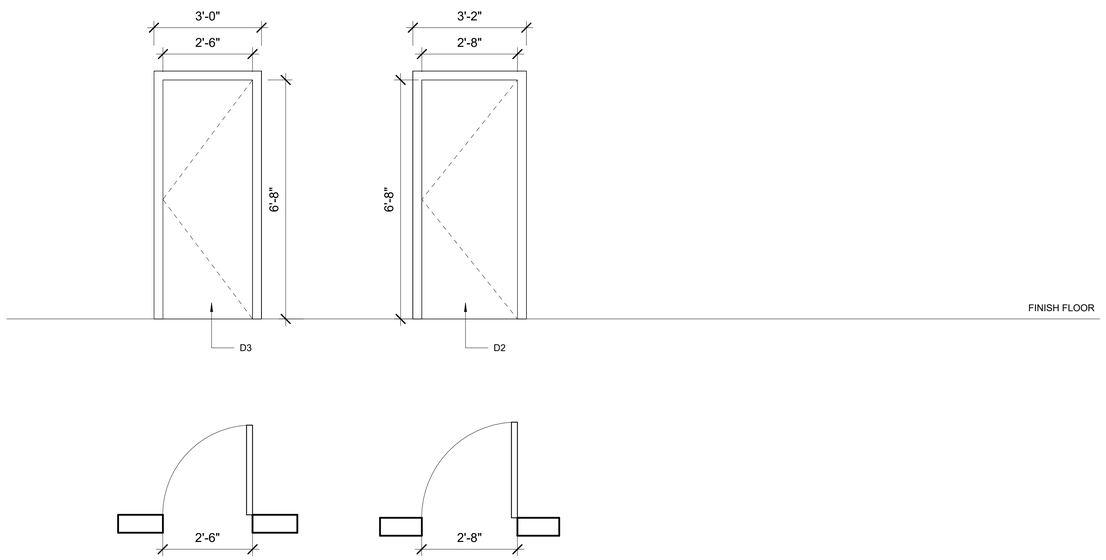
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DATE:
13/01/2026

SHEET TITLE:
3D VIEWS

SHEET NUMBER:
A-5.1



DOOR & WINDOWS

Scale: 1/2" = 1'-0"

Door Schedule

Type Mark	Door		Head Height	Material	Hardware	Count
	Width	Height				
D2	2'-8"	6'-8"	6'-8"	Single Panel Wood Flush Door W/ Hollow Metal Frame	Door Hinges / Lock Set	2
D3	2'-6"	6'-8"	6'-8"	Single Panel Wood Flush Door W/ Hollow Metal Frame	Door Hinges / Lock Set	1

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CONSTRUCTION SET	
AS BUILT SET	
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CHECKED BY	SA

PROJECT NUMBER:
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DATE:
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SHEET TITLE:
DOOR & WINDOW & DETAILS

SHEET NUMBER:
A-6.0

Arc-Fault Circuit-Interrupter (AFCI) Protection

Arc-Fault Circuit-Interrupter (AFCI) Protection shall be provided as required by NEC Article 210.12, 2023 Edition.

All 120-volt, single-phase, 15- and 20-ampere branch circuits supplying outlets or devices in dwelling unit kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed combination-type AFCI device.

For commercial occupancies such as coffee shops, all receptacle outlets serving public or seating areas, offices, break rooms, and similar spaces shall be provided with AFCI protection where required by NEC 210.12(A) for similar occupancies.

AFCI protection shall be provided by one of the following methods:

• A listed combination-type AFCI circuit breaker installed at the origin of the branch circuit; or
• A listed outlet branch-circuit (OBC) AFCI receptacle installed as the first outlet of the branch circuit, with the circuit wired in a continuous path.

The AFCI devices shall be readily accessible and installed per the manufacturer 's listing and labeling instructions.

When modifications or extensions are made to existing branch circuits in areas requiring AFCI protection, the newly added wiring shall be AFCI-protected as required by NEC 210.12(D).

All panel directories shall clearly indicate which circuits are AFCI-protected.

CARBON MONOXIDE (CO) ALARM NOTES

1. Carbon Monoxide (CO) alarms and detectors shall be installed in accordance with NEC Article 760, NFPA 720, and NFPA 72 – National Fire Alarm and Signaling Code.

2. CO alarms shall be provided in all areas containing or adjacent to fuel-burning appliances, boiler rooms, kitchens with gas equipment, and any room with potential CO accumulation.

3. CO alarms shall be listed and approved per UL 2034 (Residential) or UL 2075 (Commercial CO detection systems), as applicable.

4. Each CO alarm shall be hardwired to the building's power supply and provided with a secondary power source (battery backup) in accordance with NEC 210.12.

5. Location and Mounting:

o Install outside each separate sleeping area and within the vicinity of fuel-burning equipment.
o Mount on the wall or ceiling per manufacturer's instructions and NFPA 720 Section 5.5.

6. Interconnection:

o All CO alarms shall be interconnected so that activation of one alarm shall activate all interconnected CO alarms and any associated notification devices.

o Interconnection may be wired or wireless, provided the system is listed for interconnection and tested for reliability.

7. Combination Smoke/CO alarms shall be listed for both functions and installed where permitted by the authority having jurisdiction (AHJ).

8. All CO detection devices shall be connected to the Fire Alarm Control Panel (FACP), when provided, and shall activate both audible and visual notifications.

9. Testing and Maintenance:

o Perform system testing after installation and verify activation of all interconnected devices.
o Testing shall comply with NFPA 72 Section 14.4.

10. All devices and circuits shall be properly labeled on the electrical drawings and panel schedule as "Carbon Monoxide Detection System."

SMOKE ALARM INTERCONNECTION NOTES

1. All smoke alarms and detectors shall be interconnected so that the activation of one alarm shall cause all connected alarms to sound an audible alarm throughout the protected area, as required by NFPA 72, Section 29.5.1.8.

2. Interconnection shall be achieved using hard-wired signal conductors or an approved wireless interconnection system listed for the purpose.

3. When interconnecting smoke alarms using wiring, the interconnect conductor shall be permanently connected, not switched, and run with the branch-circuit conductors per NEC 210.12 and 760.41.

4. All smoke alarms shall be supplied by a single branch circuit, dedicated to lighting or power in the area, and not protected by a GFCI or AFCI device that could disable the alarms unintentionally unless permitted by local code.

5. When fire alarm control panels (FACP) are provided, all smoke detectors shall be interfaced with the FACP, ensuring that activation of any device initiates both audible and visual notification devices in the building.

6. Wireless interconnection systems shall be listed and approved per UL 217 and NFPA 72, Chapter 29, and shall be capable of reliable communication between all interconnected devices.

7. All interconnected smoke alarms shall be of the same manufacturer and compatible models to ensure reliable signaling and operation.

8. After installation, perform a system-wide functional test to confirm that activation of any one alarm initiates all connected alarms and notification devices.

9. The circuit used for interconnection shall be clearly identified on electrical drawings and in the panel directory as "Smoke Alarm Interconnect Circuit."

SMOKE ALARM NOTES

1. Smoke alarms and detection devices shall be installed in accordance with NEC 760, NEC 210.12, and NFPA 72 – National Fire Alarm and Signaling Code.

2. Smoke detectors shall be listed and approved for commercial use and installed per manufacturer's instructions and local fire authority requirements.

3. Smoke detection devices shall be installed in:

o Each public area accessible to occupants.

o Storage rooms, electrical rooms, and mechanical rooms as required by the local fire marshal.

o Ceiling or high wall locations, minimum 4 inches from the wall and not more than 12 inches below the ceiling.

4. Power Supply: Smoke alarms shall be permanently connected to the building's power supply and have battery backup where required.

5. Wiring: Smoke alarm wiring shall be Class A or Class B circuits in accordance with NEC Article 760.

6. All smoke detectors shall be connected to the fire alarm control panel (FACP) and shall initiate both audible and visual notification devices upon activation.

7. Combination-type detectors (smoke + heat) shall be provided where required by the authority having jurisdiction (AHJ).

8. Installation height, spacing, and location shall follow NFPA 72, Section 17.7.3.

9. All smoke alarm circuits shall be tested after installation and verified to be operational prior to final inspection.

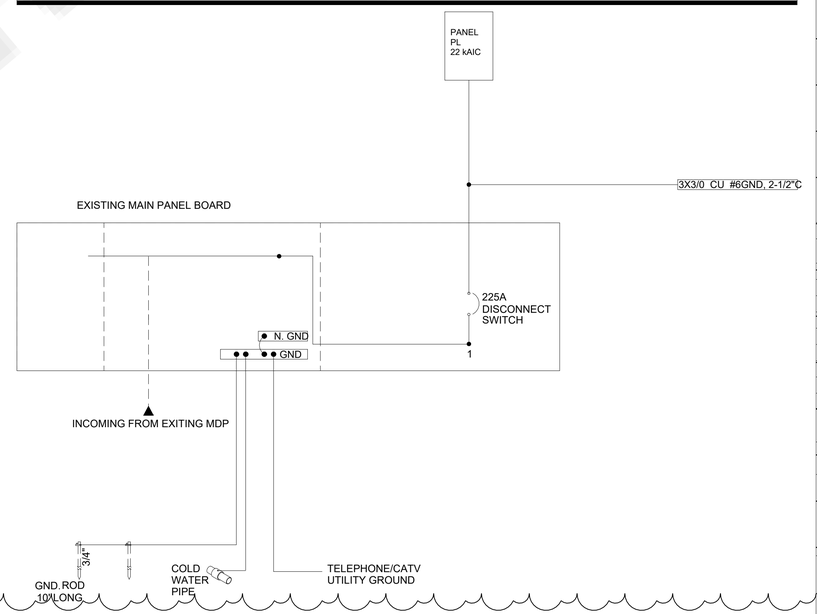
10. Label all smoke detectors on the electrical drawings and provide corresponding circuit identification at the electrical panel.

Panel Schedule			Panel Model#:	Voltage/Phase:		Wire	Poles	Buss	Service			
Panel - PL				120-208/3		4	42	250	Ground Floor			MCCB-225A
	Amp	Pole	Service	Load	A	B	C	Load	Service	Pole	Amp	
1	20	1	Lighting Circuit Sitting Area	100	130			30	Lighting Circuit Sitting Area	1	20	2
3	20	1	Lighting Circuit Bar Counter	120		240		120	Lighting Circuit Bar Counter	1	20	4
5	20	1	Lighting Circuit Kitchen	120			240	120	Lighting Circuit Kitchen	1	20	6
7	20	1	Lighting Circuit receiveing area	40	80			40	Lighting Circuit toilet	1	20	8
9	20	1	Lighting Circuit Storage	45		145		100	Lighting Circuit Bar Counter	1	20	10
11	20	1	Lighting Circuit Sitting Area	120			660	120	Lighting Circuit Sitting Area	1	20	12
13	20	1	Receptacle Circuit Sitting Area	540	1080			540	Receptacle Circuit Sitting Area	1	20	14
15	20	1	Receptacle Circuit Bar Counter/Kitchen	540		1440		900	Receptacle Circuit Kitchen	1	20	16
17	20	1	Receptacle Circuit Kitchen	360			1020	660	Receptacle Circuit Storage/Toilet	1	20	18
19	20	1	Exhaust Fan	150	810			660	Receptacle Circuit Bar Counter/Kitchen	1	20	20
21	20	1	Receptacle Circuit Bar Counter/Kitchen	720		3220		2500	RTU-1	2	40	22
23	20	3	MUA-1	3000			5500	2500				24
25				3000	4500			1500	Dough Mixer	2	20	26
27				3000		4500		1500				28
29	30	2	Espresso Machine	2500			4000	1500	Semi Automatic Dough Divider	2	20	30
31				2500	4000			1500				32
33	20	2	Semi Automatic Dough Flatenner	1500		3000		1500	Convection Oven	1	20	34
35				1500			1500					36
37			Spare		0				Spare			38
39			Spare			0			Spare			40
41			Spare				0		Spare			42
* Provide AFCI breaker.				Total / Leg	10600	12545	12920	VA				
				Total Connected		36065		VA	*Demand*		100 A	

LIGHTING SCHEDULE

SR	SYMBOL	DESCRIPTION	WATT	MAKE	MODEL
1		PENDENT LIGHT	15	LAMPS PLUS	STYLE # 5Y001
2		WALL LAMP BRACKET	15	LAMPS PLUS	STYLE # 1G818
3		2' X 4' RECESSED PANEL LIGHT	30	LAMPS PLUS	STYLE # 0258F
4		2' X 2' RECESSED PANEL LIGHT	24	LAMPS PLUS	STYLE # 9019E
5		VANITY LIGHT	10	LAMPS PLUS	STYLE # 2168D
6		EXIT LIGHT		LITHONIA	

SINGLE LINE DIAGRAM



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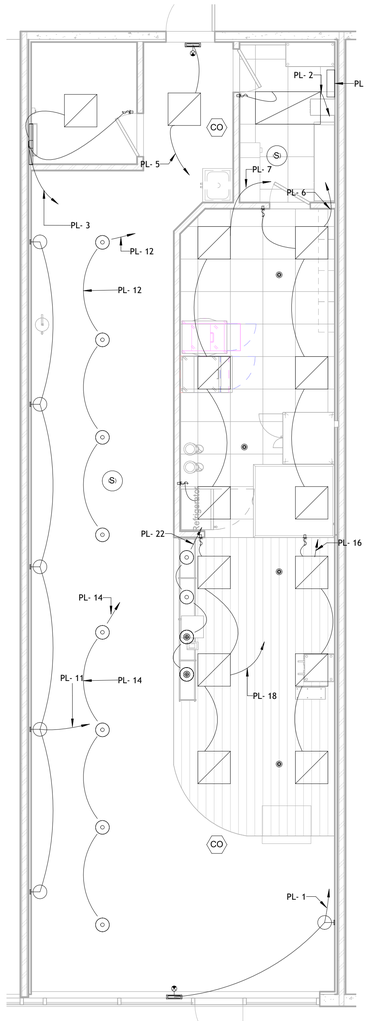
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DATE: 01/13/2026

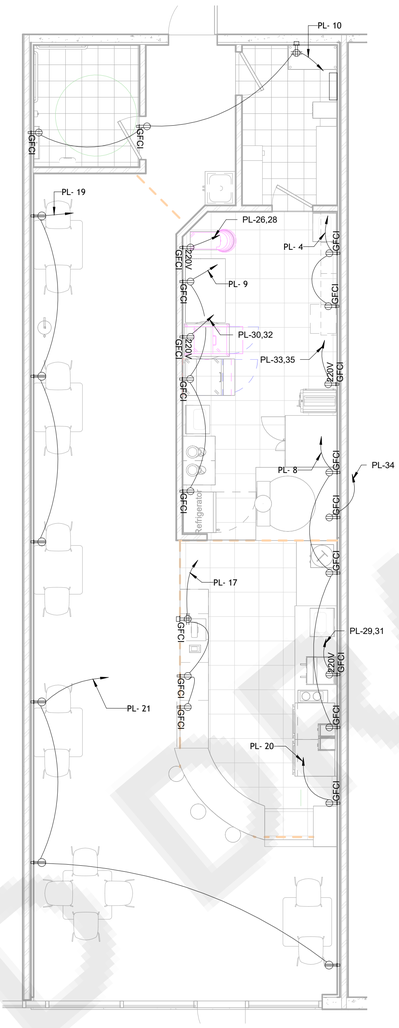
SHEET TITLE: GENERAL NOTES & PANEL SCHEDULE & SINGLE LINE DIAGRAM

SHEET NUMBER: E-0.1



1 Finished Floor Lighting plan

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



2 Finished Floor Power Plan

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

LEGEND

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	TOP SWITCHED RECEPTACLE
	QUADRUPLEX RECEPTACLE PLAIN
	TRACK LIGHT PARAMETRIC
	PLAIN RECESSED LIGHT
	PLAIN RECESSED LIGHT
	BROWNLEE LIGHT
	WALL LAMP BRACKET
	PENDANT LIGHT
S	SMOKE DETECTOR
CO	CARBON OXIDE DETECTOR
	HEAT DETECTOR
	EMERGENCY LIGHT EXIT

LIGHTING AND POWER NOTES

1. All electrical work shall comply with the latest edition of the National Electrical Code (NEC 2023), local building codes, and authority having jurisdiction (AHJ) requirements.
2. Lighting and power circuits shall be installed with copper conductors, THHN/THWN insulation, and EMT conduit unless otherwise noted.
3. Voltage drop on feeders and branch circuits shall not exceed 3%, and the combined voltage drop shall not exceed 5%, as required by NEC 210.19(A)(1) and 215.2(A)(1).
4. All lighting fixtures shall be UL listed, energy-efficient, and comply with IECC and local energy code requirements.
5. Exit and emergency lighting shall be provided per NEC 700, NEC 701, and NFPA 101 (Life Safety Code). Emergency and exit lights shall be connected to unswitched circuits and provided with battery backup.
6. Switching devices shall control only the intended lighting circuits and be located per ADA and NEC 404.8(A) accessibility requirements.
7. Receptacles shall be tamper-resistant, grounded, and installed per NEC 210.52. All receptacles in kitchen, restroom, outdoor, and utility areas shall be provided with GFCI protection per NEC 210.8(B).
8. AFCI protection shall be provided for all 120V, single-phase, 15A and 20A branch circuits supplying outlets in public areas, seating zones, and office spaces per NEC 210.12.
9. Dedicated circuits shall be provided for equipment such as coffee machines, ovens, refrigerators, and HVAC units as indicated on the power plan.
10. Lighting controls shall include occupancy sensors, dimming, or daylight-responsive devices as required by the energy code and local lighting control standards.
11. Circuit directories shall be typed, permanently affixed inside each panelboard, and accurately describe the areas and equipment served.
12. All grounding and bonding shall comply with NEC Article 250. Equipment grounding conductors shall be installed with all branch circuits and feeders.
13. Coordinate all electrical device locations with architectural, mechanical, and equipment drawings prior to installation.
14. Contractor shall verify all electrical loads, circuiting, and panel schedules prior to rough-in.
15. All work shall be performed by licensed electricians and subject to inspection and approval by the local building department and fire marshal.

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CAD DRAFTER

GENERAL CONTRACTOR

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AJEENA MEDITERRANEAN BAKERY AND COFFEE SHOP
515 W Campbell Rd, Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/26

ISSUE DATES

TYPE	DATE
ONWER REVIEW SET	
PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AF
CHECKED BY	AM

PROJECT NUMBER: 7003-06

DATE: 01/13/2026

SHEET TITLE: FINISHED FLOOR LIGHTING PLAN

SHEET NUMBER: E-O.2

MECHANICAL (HVAC) GENERAL NOTES

1. All HVAC installations shall comply with the International Mechanical Code (IMC 2021), International Energy Conservation Code (IECC 2021), ASHRAE 90.1, NFPA 90A/90B, and local building department Regulations.
2. Contractor shall verify all field conditions, dimensions, and equipment locations before starting installation. Any conflicts or discrepancies shall be reported to the engineer or designer.
3. All mechanical equipment shall be listed and labeled per IMC Section 301.7 and installed in accordance with the manufacturer's installation instructions.
4. Equipment access and service space shall comply with IMC Section 306.Maintain required clearances for maintenance, inspection, and replacement.
5. Condensate drainage systems shall comply with IMC Section 307. Provide traps, secondary drains, or shutoff float switches where units are above finished spaces.
6. Refrigeration systems shall be installed per IMC Chapter 11 and ASHRAE Standard 15, including proper piping supports, leak testing, and insulation on suction lines.
7. Duct systems shall comply with IMC Chapter 6 and SMACNA standards.
   - o Ducts shall be sealed, supported, and insulated per IMC Sections 603–604.
   - o Flexible ducts shall not exceed lengths allowed by IMC 603.6.2 and must be listed per UL 181.
8. Ventilation and outdoor air shall be provided per IMC Chapter 4 and ASHRAE 62.1, ensuring required minimum ventilation rates for occupant health.
9. Combustion air for fuel-burning appliances shall comply with IMC Chapter 7 and shall be provided through permanent openings or ducts per design.
10. Exhaust systems shall comply with IMC Chapter 5.
    - o Toilet and restroom exhaust shall discharge to the outdoors, not to attics or concealed spaces.
    - o Grease-laden vapors from kitchen equipment shall be exhausted through Type I hoods per IMC Section 507 and NFPA 96.
11. Insulation on ducts and piping shall meet IECC 2021 requirements for thermal resistance and condensation control.
12. Vibration isolation and flexible connections shall be installed at all fan and mechanical equipment connections per IMC Section603.5.5.
13. Penetrations of fire-rated assemblies shall be protected with listed firestop systems per IMC Section 607.5 and NFPA 90A.
14. Air balance testing shall be performed after installation to verify airflow and pressure settings per IMC Section 603.7.
15. Thermostats and controls shall be installed per IECC 2021 Section C403.4.1, and located per IMC Section 301.15 for accessibility.
16. Outdoor equipment (RTUs, condensing units, etc.) shall be weatherproof, mounted on structural curbs or pads, and provided with service disconnect within sight per IMC 306.5 and NEC 440.14.
17. Combustion and ventilation air intakes shall be located to prevent contamination per IMC Section 401.4 and 401.5.
18. Testing and inspection of all HVAC systems shall be performed in accordance with IMC Chapter 11 and manufacturer 's requirements before final approval.
19. All equipment and components shall be tagged and labeled for identification per IMC 306.1.1, and shown accurately on as-built drawings.
20. Contractor shall coordinate all penetrations, sleeves, and supports with architectural, structural, electrical, and plumbing trades prior to installation.

DUCT SMOKE DETECTOR NOTES

1. DUCT SMOKE DETECTOR NOTES

1. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN RETURN OR SUPPLY AIR DUCTS OF AHUS OVER 2,000 CFM SERVING MULTIPLE SPACES PER IMC 606 AND NFPA 90A.
2. DETECTORS SHALL BE LISTED FOR DUCT APPLICATION AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND NFPA 72 SECTION 17.7.5.5.
3. ACTIVATION OF ANY DUCT SMOKE DETECTOR SHALL INITIATE ASSOCIATED AHU SHUTDOWN AND REPORT A SUPERVISORY SIGNAL TO THE FIRE ALARM CONTROL PANEL.
4. PROVIDE REMOTE TEST AND RESET STATIONS FOR ALL DUCT DETECTORS NOT EASILY ACCESSIBLE.
5. DUCT SMOKE DETECTORS SHALL NOT SUBSTITUTE FOR AREA SMOKE DETECTION.
6. FIRE ALARM AND HVAC CONTRACTORS SHALL COORDINATE WIRING, LABELING, AND SHUTDOWN VERIFICATION.
7. INTEGRATION BETWEEN FIRE ALARM AND HVAC SYSTEMS SHALL BE THROUGH LISTED RELAYS OR APPROVED INTERFACE MODULES.
8. FINAL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 72 CHAPTER 14 AND WITNESSED BY THE AHJ.

EXHAUST FAN SCHEDULE

Mark	Manufacturer	Model	Type	Exhaust Air Volume
EF-1	Greenheck	SP SERIES	EF-1	100 CFM

AIR DEVICES

MARK	TYPE	SIZE	MANF./MODEL	REMARKS
S1	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES
S2	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES
S3	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES
S4	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES
S5	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES
R1	SQUARE CEILING DIFFUSER	24"x24"	TITUS	REF. NOTES
S2	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES
R2	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES
E1	SQUARE CEILING DIFFUSER	24"x24"	TITUS	REF. NOTES
R2	SQUARE CEILING DIFFUSER	12"X12"	TITUS	REF. NOTES

CAPTIVE AIR TYPE I HOOD PERFORMANCE DETAILS

AVG. COOKING SURFACE TEMP F	CONFIGURATION	MIN. EXHAUST CFM/FT
450 F	Single Wall Hood	150
	2 wall hoods back to back	300
600 F	Single Wall Hood	200
	2 wall hoods back to back	400
700 F	Single Wall Hood	250
	2 wall hoods back to back	500

KITCHEN HOOD SCHEDULE

Mark	Manufacturer	Model	Temp F	Type	EXHAUST AIR VOLUME	Exhaust CFM /FT	hood length ft	Configuration
Hood Captive Aire	CaptiveAire	ND-2 SERIES	600 F	Hood-CaptiveAire-ND-2-2r	2200 CFM	200	11 ft	Single Wall Hood

MAKE UP AIR / DOAS SCHEDULE

MARK	LOCATION	CAPACITY	AIR FLOW (CFM)	POWER	BLOWER	IEER	ISMRE2	WEIGHT	MAKE / MODEL
MUA-1	ROOF	63.9MBH	1760	208 / 3-ph / 60 Hz, 1.5 HP motor	15P-1	17.9	6.4	1150LBS	CAPTIVEAIRE CAS-HVAC1-I.125-15-5T-MPU

RTU SCHEDULE

Mark	Location	Unit Description	Nominal cooling Capacity	Air Flow (CFM)	ELECTRICAL			Refrigerant	Heating Capacity (Btuh)		SEER	HSPF	Model & Make
					V	PH	Hz		AT 47 F	AT 17 F			
RTU-1	ROOF	Carrier 5 Ton, 15.0 SEER WeatherMaster Package RTU Heat Pump, 208/1	5 Ton	2000	208 / 230	1	60	R-410A	55000	28600	15.0	8.20	Carrier 50HCQA06A0A30A0A0

CAD DRAFTER

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ISSUE DATES

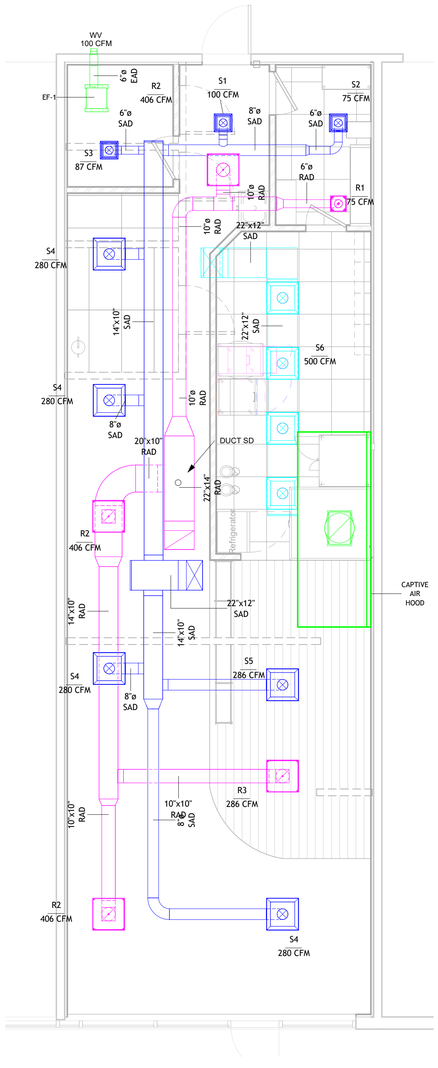
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ONWER REVIEW SET	
PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AF
CHECKED BY	AM

PROJECT NUMBER: 7003-06

DATE: 01/13/2026

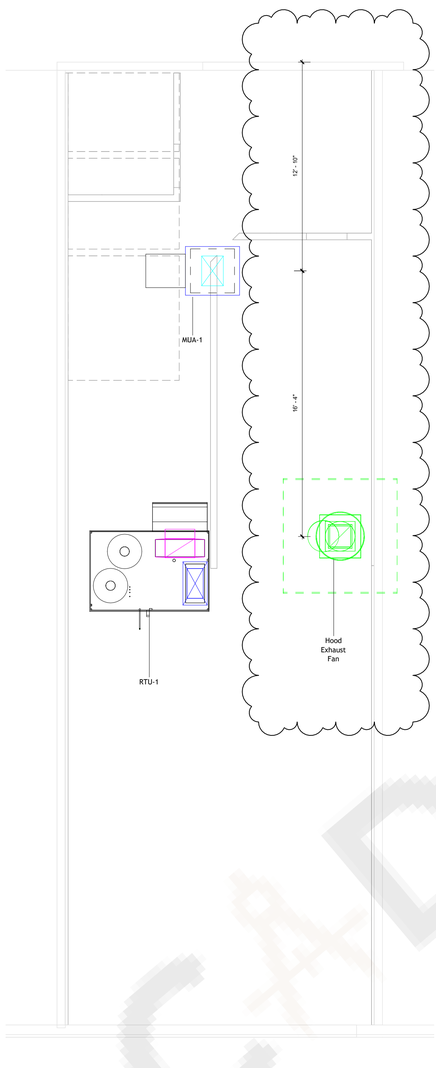
SHEET TITLE: MECHANICAL GENERAL NOTES

SHEET NUMBER: M-100



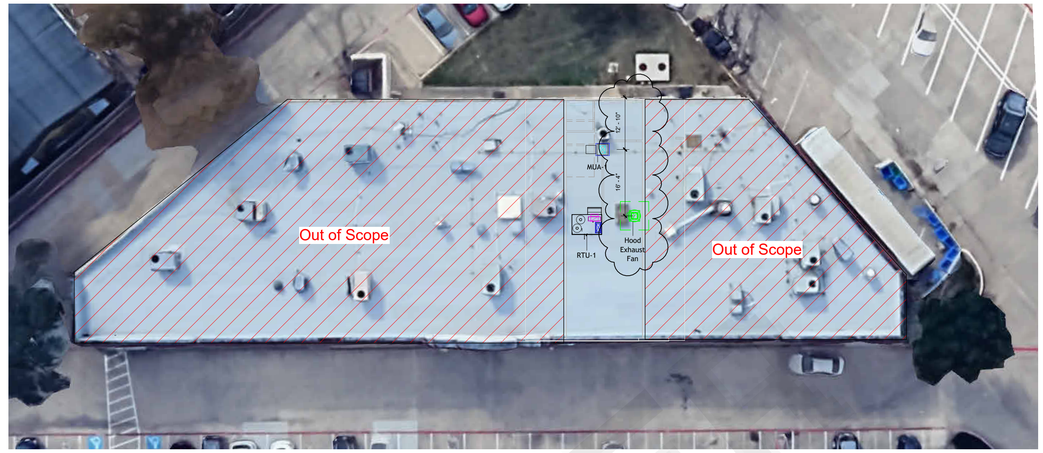
1 Mechanical Floor Plan

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



2 Roof Plan

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



3 Roof Top View

Scale: 1/16" = 1'-0"

MECHANICAL LEGED		
SYM	TAG	DESCRIPTION
	WV	WALL VENT
	EF	EXHAUST FAN
	S	SUPPLY AIR DIFFUSER
	R	RETURN AIR DIFFUSER
		RETURN AIR DUCT
		SUPPLY AIR DUCT
		MAKE UP AIR DUCT

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CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AF
CHECKED BY	AM

PROJECT NUMBER: 7003-06

DATE: 01/13/2026

SHEET TITLE: MECHANICAL PLAN

SHEET NUMBER: M-101

HOOD INFORMATION – JOB#8307355

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		6624 ND-2-PSP-F	CAPTIVEAIRE	11' 0"	450 DEG	I	MEDIUM	200	2200			4"	16"	2200	1576	-0.689"	1760	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x66"x24"	TANK FS	4.0/4.0	SC-E011011MA	1 LIGHT 1 FAN	YES	1006 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 144.00" LONG 430 SS VERTICAL.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.

PERFORATED SUPPLY PLENUM(S)

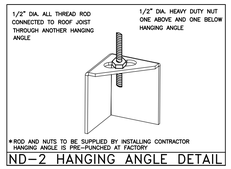
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	144"	14"	6"	MUA	12"	28"		877	0.227"
						MUA	12"	28"		877	0.227"

FOR QUESTIONS, CALL
CAPTIVEAIRE HOUSTON MECHANICAL OFFICE
reg126@captiveaire.com

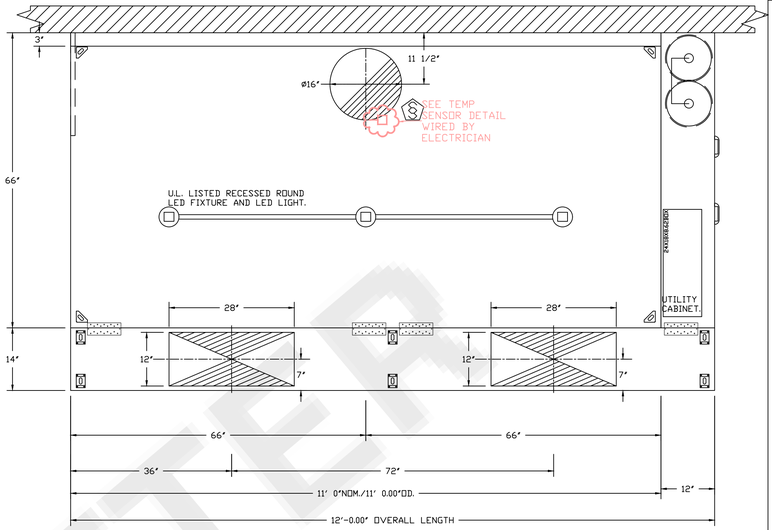
PHONE: (346) 330-2007 FAX: 919-516-8746

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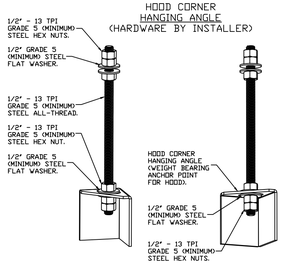
THE CAPTIVE AIRE MODEL ND HAS BEEN E.T.L TESTED, LISTED, AND APPROVED TO EXHAUST A MINIMUM OF 150/200/250 CFM PER LINEAR FOOT OVER 450/600/700 DEGREE COOKING EQUIPMENT



ND-2 HANGING ANGLE DETAIL



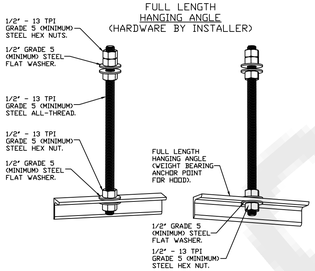
PLAN VIEW – HOOD #1
11' 0.00" LONG 6624ND-2-PSP-F



HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)

ASSEMBLY INSTRUCTIONS

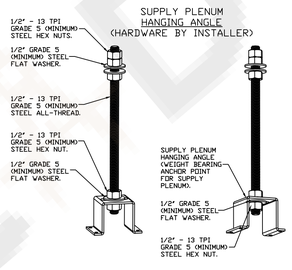
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND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



FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)

ASSEMBLY INSTRUCTIONS

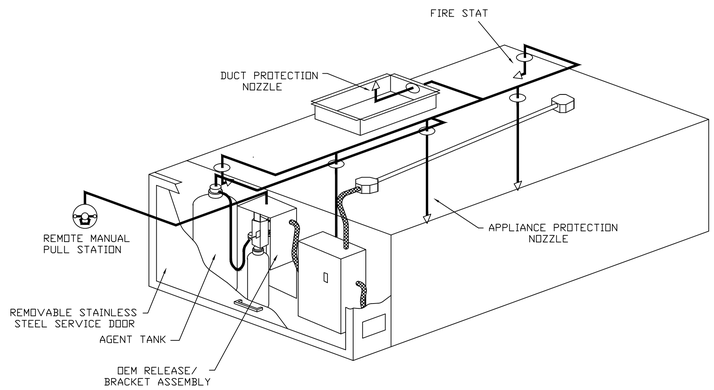
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE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



SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)

ASSEMBLY INSTRUCTIONS

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



ELECTRICAL WET CHEMICAL SYSTEM

SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH AN ELECTRICAL DETECTION SYSTEM. THE ELECTRICAL DETECTION SYSTEM SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM.

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVEAIRE
www.captiveaire.com
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3302 Canal St. Suite 53. Houston, TX. 77003 PHONE: (346) 330 - 2007 FAX: 919516746 EMAIL: reg126@captiveaire.com

Ajeena Mediterranean Cafe & Bakery
RICHARDSON, TX, 75080

DATE: 10/24/2025

DWG.#: 8307355

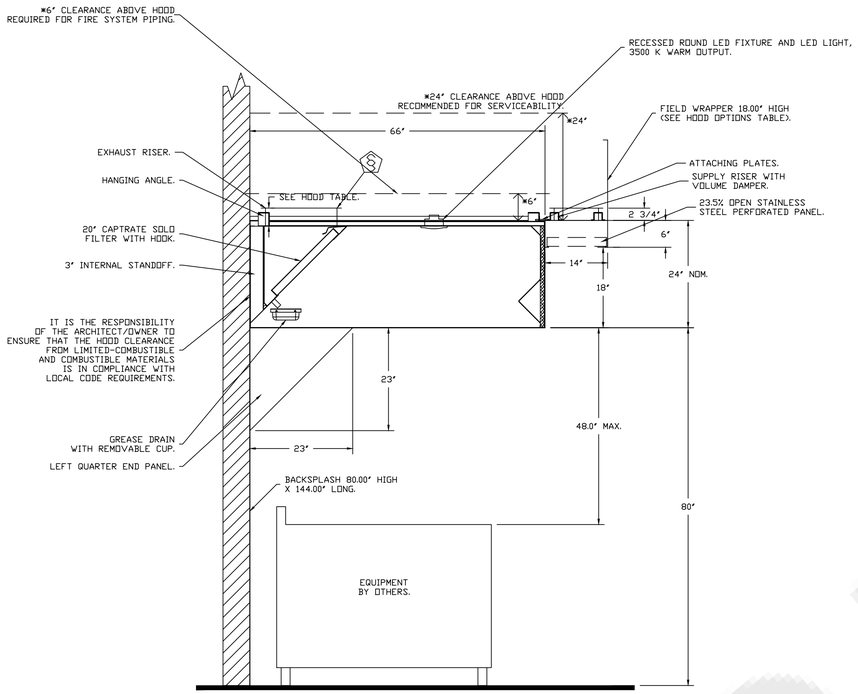
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SCALE: 3/4" = 1'-0"

MASTER DRAWING

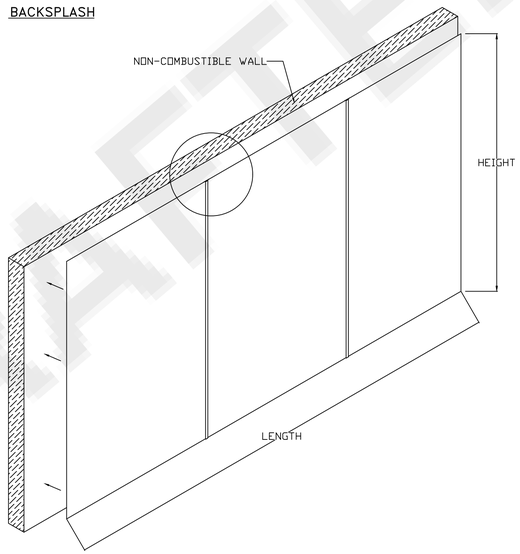
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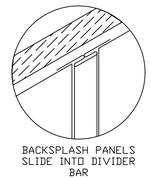
NOT RELEASED FOR CONSTRUCTION



SECTION VIEW – MODEL 6624ND-2-PSP-F HOOD – #1

BACKSPLASH





BACKSPLASH PANELS SLIDE INTO DIVIDER BAR

- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

CAD DRAWING

REVISIONS

	DESCRIPTION	DATE:
1		
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3302 Canal St. Suite 53. Houston, TX. 77003 PHONE: (346) 330 - 2007 FAX: 9195168746 EMAIL: reg126@captiveaire.com

Ajeena Mediterranean Cafe & Bakery
RICHARDSON, TX, 75080

DATE: 10/24/2025

DWG.#: 8307355

DRAWN BY: FJ

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. M-103

EXHAUST FAN INFORMATION – JOB#8307355

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU85HFA	CAPTIVEAIRE	2200	1.000	1567	TEAO-ECM	1.000	0.8340	1	115	11.6	696 FPM	94	17.1

DOAS/RTU FAN SCHEDULE – JOB#8307355

FAN INFORMATION										ELECTRICAL INFORMATION					COOLING INFORMATION										GAS HEAT INFORMATION					A2L MINIMUM ROOM VOLUME			
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	TOTAL CFM	MAX OUTSIDE AIR CFM	RETURN AIR CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR			CAPACITY		IEER	ISMRE2	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES
																DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.										
2		1	CAS-HVAC1-1.125-15-ST-MPU	CAPTIVEAIRE	15P-1	1760	1760	0	1156	0.500	1.50	3	208	26.8A	30A	92.9°F	78.9°F	92.9°F	78.9°F	70.2°F	70.2°F	70.2°F	63.9 MBH	43.6 MBH	17.9	6.4	NATURAL	114156	92466	46°F	7 IN. W.C. – 14 IN. W.C.	183.6	330	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
12. 15 DEGREE LOW AMBIENT OPERATION
13. HAIL GUARD FOR CONDENSING COIL
14. 1" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-4.3 INSULATION-MINIMUM 24GA EXTERIOR W/ 18GA BASE
15. DOWN DISCHARGE/NO RETURN
16. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.
17. SCCR RATING OF 10kAMP

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						

CURB ASSEMBLIES

NO	ON FAN	R-VALUE	WEIGHT	ITEM	SIZE
1	# 1		36 LBS	CURB	23.000"W X 23.000"L X 20.000"H VENTED HINGED.
2	# 2	4.3	83 LBS	CURB	41.000"W X 71.000"L X 14.000"H INSULATED.

1" R4.3 FOIL FACED FIBERGLASS INSULATION. COMPLIES WITH UL/ULC,ASTM, & ASHRAE STANDARDS.

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	COOLING OVERRIDE
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	RTU BLOWER DOOR SWITCH
		1	2" MERV 8 FILTERS FOR RTU1 (QTY. 4)
		1	TOTAL CFM MONITORING
		1	BLOWER STOP DELAY. ALLOWS RESIDUAL HEAT TO BE TRANSFERRED INTO THE SUPPLY AIR AFTER HEATING HAS STOPPED. FACTORY SET AT: 90 SECS FOR IBT, 30 SECS FOR DF
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	RTU1 DOWN DISCHARGE
		1	5 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, DL ECM CONDENSING FAN
		1	LOW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT
		1	R454B LEAK DETECTOR OPTION FOR RTUS
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	INTAKE FIRESTAT SET TO 135°F
		1	RTU1 NO RETURN - 100% OA - MPU
		1	2" METAL MESH FILTERS FOR RTU1 OUTDOOR INTAKE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	RTU1 CURB DUCT HANGER
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	NO REHEAT
		1	RTU1 HAIL GUARD
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

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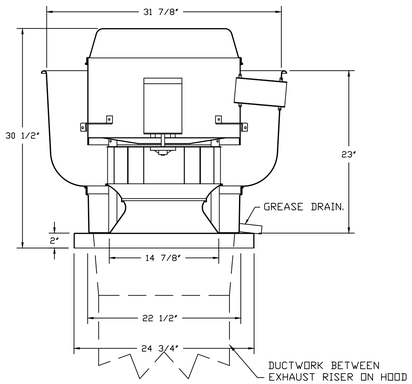
DRAWN BY: FJ

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. M-104

FAN #1 DU8SHFA - EXHAUST FAN



FEATURES:

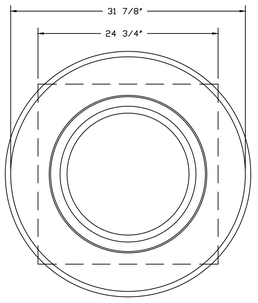
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

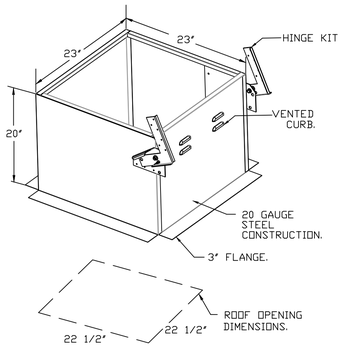
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR8SHFA
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



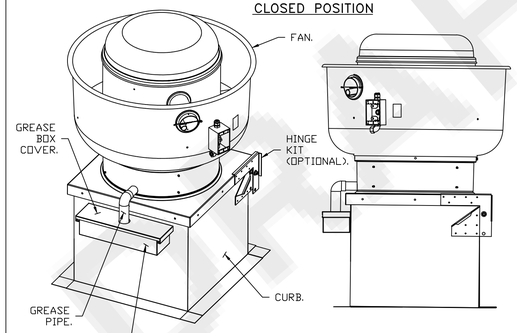
TOP VIEW



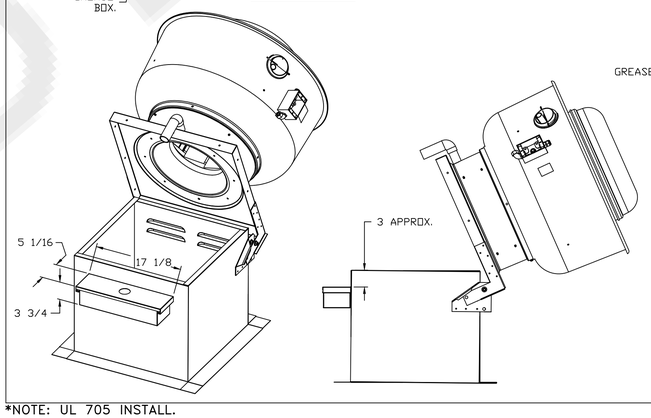
GREASEBOX
REV.#2 08/19/02

GREASE BOX INSTALLATION

CLOSED POSITION



OPEN POSITION



*NOTE: UL 705 INSTALL.

PARTS INCLUDED

GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

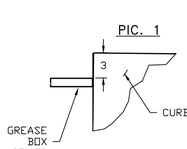
SHEET METAL SCREWS 3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

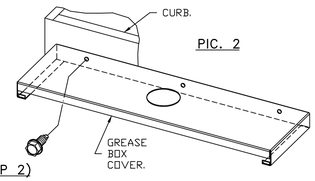
STEP 1)

ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.

PIC. 1



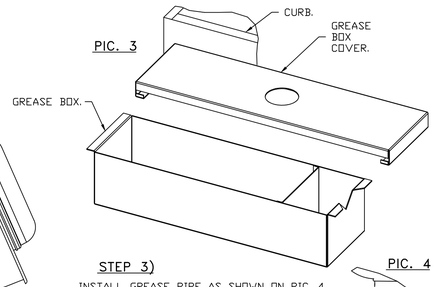
PIC. 2



STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.

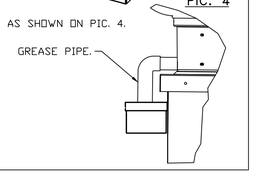
PIC. 3



STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

PIC. 4



CAD DRAWING

REVISIONS

	DESCRIPTION	DATE:
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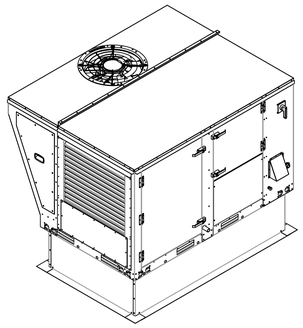
MASTER DRAWING

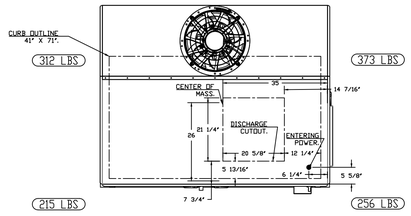
SHEET NO. M-105

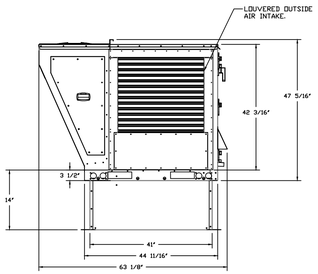
FAN #2 CAS-HVAC1-I.125-15-5T-MPU - HEATER

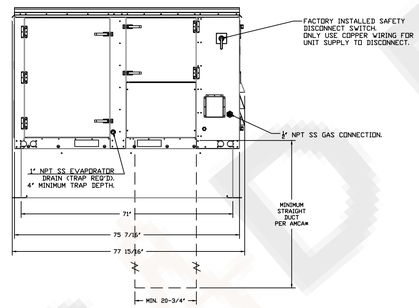
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

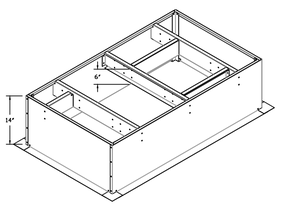
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED SUPPLY STRAIGHT DUCT SIZE IS 20-3/4" x 21-1/2".

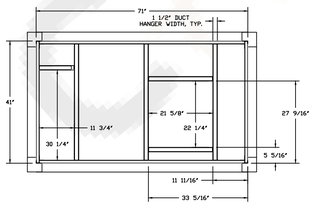


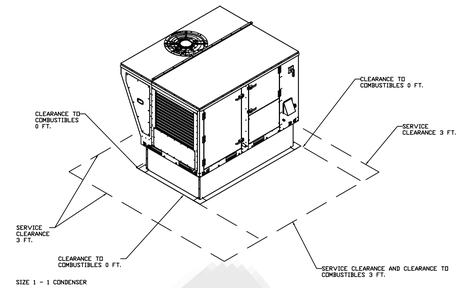




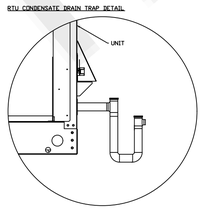


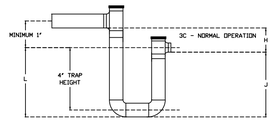






SIZE 1 - 1 CONDENSER

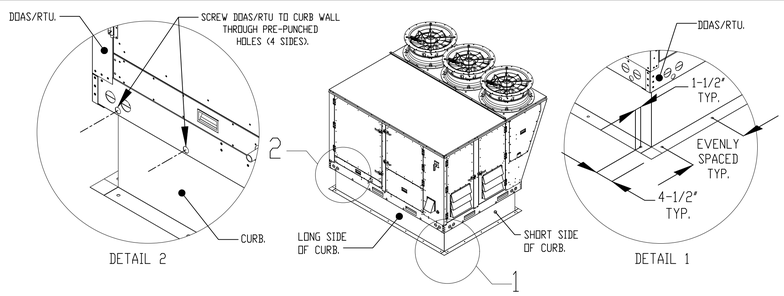




TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.

2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



FOR PERMIT ONLY
NOT FOR CONSTRUCTION

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SHEET NO. M-106

MUA WIRING DIAGRAM

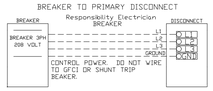
RTU Installation Wiring	JOB	Ajeena Mediterranean Cafe & Bakery
DRAWING NUMBER INST8307355-2	SHIP DATE 10/24/2025	MODEL CAS-HVAC1-1.125-15-5T-MPU



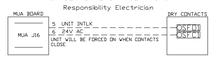
HMI SCHEDULE

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

BREAKER TO PRIMARY DISCONNECT
Responsibility Electrician



MUA BOARD TO DRY CONTACTS
Responsibility Electrician



UNIT BOARD TO SMOKE DETECTOR
Responsibility Electrician



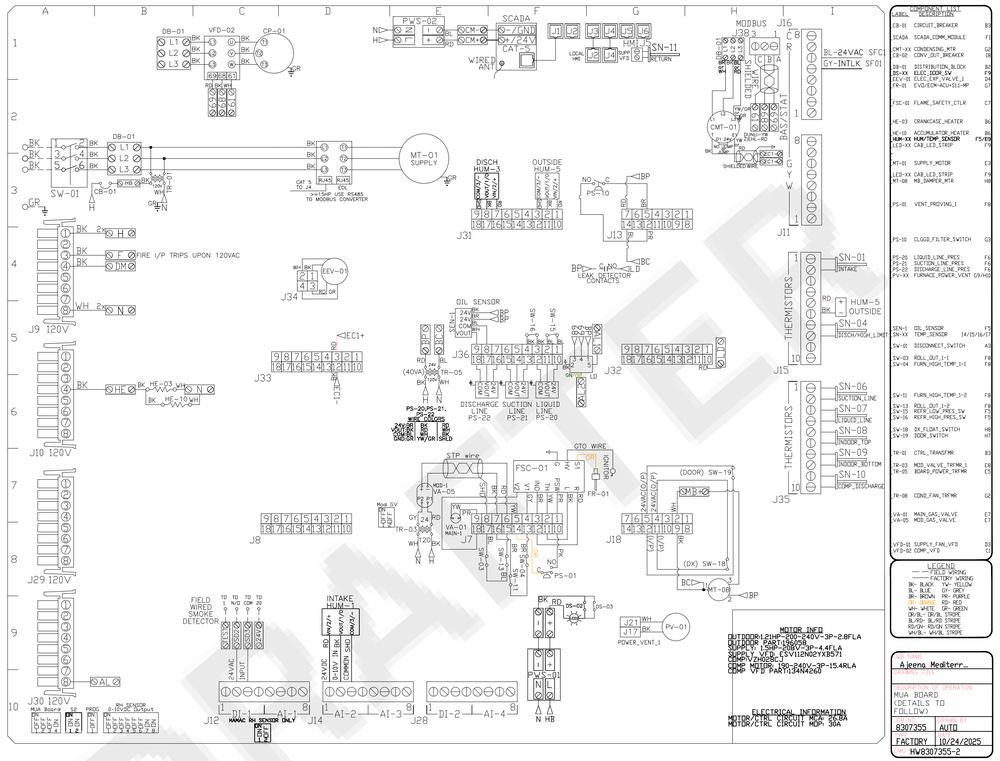
Installed Options

NOTES

— — — —Field Wiring

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	



COMPONENT LIST

LABEL	DESCRIPTION	
CB-01	CIRCUIT_BREAKER	BR
SCADA	SCADA_COMM_MODULE	FS
CMT-XX	CONDENSING_MTR	CO
CB-02	120V_OUT_BREAKER	BR
DB-01	DISTRIBUTION_BLOCK	BO
EV-XX	ELEC_DOOR_SV	FR
EV-01	ELEC_EXP_VALVE_1	SA
FR-01	EVD/EEM-A(D+E)10-MP	CT
FSC-01	FLAME_SAFETY_CTLR	CT
HE-03	CRANKCASE_HEATER	BE
HE-05	ACCUMULATOR_HEATER	BE
HUM-XX	HUM/TEMP_SENSOR	FS/FR
LED-XX	CAB_LED_STRIP	FR
MT-01	SUPPLY_MOTOR	EX
LED-XX	CAB_LED_STRIP	FR
RT-08	RB_DAMPER_MTR	MO
PS-01	VENT_PROVING_1	FR
PS-10	CLOGG_FILTER_SWITCH	GA
PS-20	LIQUID_LINE_PRES	FA
PS-21	SUCTION_LINE_PRES	FA
PS-22	DISCHARGE_LINE_PRES	FA
PV-XX	FURNACE_POWER_VENT (9/HS)	
SEN-1	OIL_SENSOR	CH
SN-XX	TEMP_SENSOR	14/15/16/17
SW-01	DISCONNECT_SWITCH	AS
SW-03	ROLL_OUT_1-1	FR
SW-04	FURN_HIGH_TEMP_1-1	FR
SW-11	FURN_HIGH_TEMP_1-2	FR
SW-13	ROLL_OUT_1-2	FR
SW-15	REFR_LOW_PRES_SV	FR
SW-16	REFR_HIGH_PRES_SV	FR
SW-18	DX_FLOAT_SWITCH	HR
SW-19	DOOR_SWITCH	HT
TR-01	CTRL_TRANSFMR	BR
TR-03	MOD_VALVE_TRFMR_1	FR
TR-05	BOARD_POWER_TRFMR	EL
TR-08	COND_FAN_TRFMR	GE
VA-01	MAIN_GAS_VALVE	ET
VA-05	MOD_GAS_VALVE	ET
VFD-01	SUPPLY_FAN_VFD	SO
VFD-02	COMP_VFD	

LEGEND
— — — FIELD WIRING
——— FACTORY WIRING
BK- BLACK YW- YELLOW
BL- BLUE GY- GREY
BR- BROWN PR- PURPLE
OR- ORANGE RD- RED
WH- WHITE GR- GREEN
BK/BL- BK/BL STRIPE
BL/RD- BL/RD STRIPE
RD/GN- RD/GN STRIPE
WH/BL- WH/BL STRIPE

Ajeena Mediterr...
MUA BOARD
<DETAILS TO FOLLOW>

DRAWING NUMBER	DRAWN BY
8307355	AUTO
FACTORY	10/24/2025
HV8307355-2	

CAD DRAWING

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REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

Ajeena Mediterranean Cafe & Bakery
RICHARDSON, TX, 75080

DATE: 10/24/2025

DWG.#: 8307355

DRAWN BY: FJ

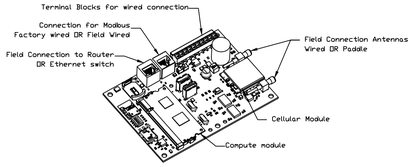
SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
M-107

ELECTRICAL PACKAGE – JOB#8307355

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1		SC-E011011MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EXHAUST	1	1.000	115	11.6
				HOOD # 1	1 FAN		SUPPLY	3	1.500	208	4.4



CASlink Monitor and Control

- *Hood control panel to support communications to cloud-based Building Management System.*
- *Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.*
- *Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.*
- *Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.*

MONITORING AND CONTROL POINTS LIST

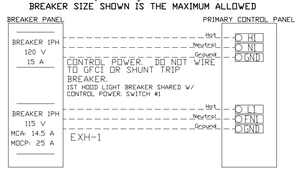
DCV Packages	*Function*
Room Temperature	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Fan Speed	*MONITOR*
Fan Amperage	*MONITOR*
Fan Power	*MONITOR*
VFD Faults	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Prep Time Button	*MONITOR & CONTROL*
Fans Button	*MONITOR & CONTROL*
Lights Button	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

SC Packages	*Function*
Room Temperature(s)	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Fans Button(s)	*MONITOR & CONTROL*
Lights Button(s)	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

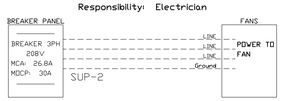
JOB NO 8307355 | MODEL NUMBER SC-E011011MA | JOB NAME Ajeena Mediterranean Cafe & B... | DRAWN BY | DATE 10/24/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
Mixed Voltage w/ control for 1 3Ph. Supply Fan, 1 120V 1Ph. Exhaust Fan, Exhaust on in Fire, Lights out in Fire, Relay On/OFF with Supply Fan, Fanlet On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

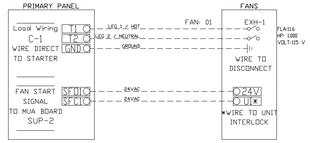
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



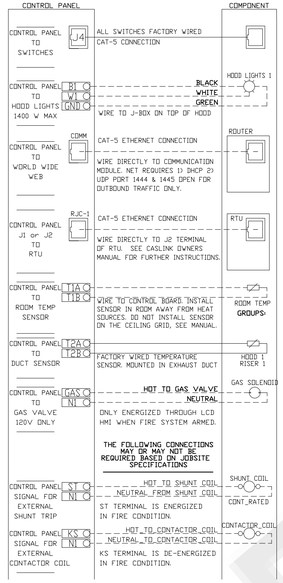
BREAKER PANEL TO FANS
Responsibility: Electrician

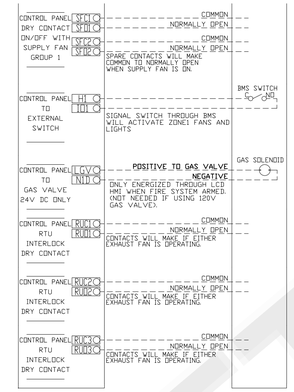


CONTROL PANEL TO FANS
Responsibility: Electrician

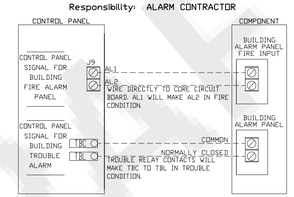


CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician

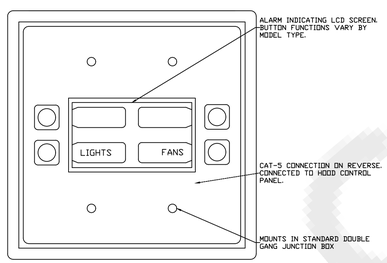




CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR

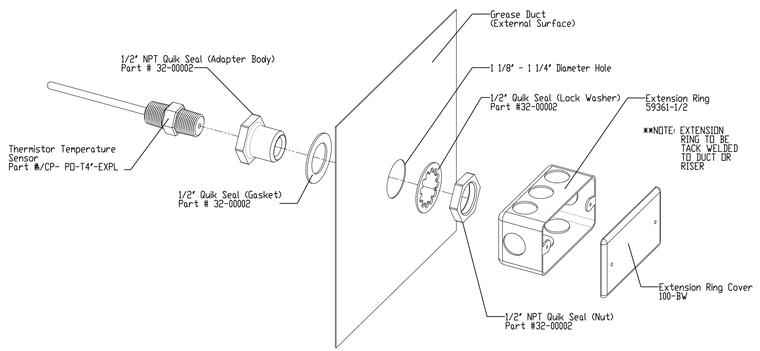


ELECTRICAL PACKAGE INTERFACE



DUCT THERMISTOR SENSOR INSTALLATION

NOTE: Thermistor has 2 wires that connect to control cabinet



CAD DRAWING

REVISIONS

DESCRIPTION	DATE:

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Ajeena Mediterranean Cafe & Bakery
RICHARDSON, TX, 75080

DATE: 10/24/2025

DWG.#: 8307355

DRAWN BY: FJ

SCALE: 3/4" = 1'-0"

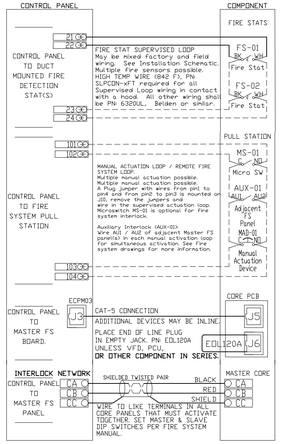
MASTER DRAWING

SHEET NO. M-108

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
8307355	SC-E011011MA		INSTALL	Mixed Voltage w/ control for 1 3Ph. Supply fan, 1 120V 1Ph. Exhaust Fan, Exhaust on in Fire, Lights out in Fire, Relay 24VDC with Supply Fan Tracks On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRES FOR USE WITH VFD.
JOB NAME: Ajeena Mediterranean Cafe & B...		DATE: 10/24/2025	DWG NO: ECP #1-2	

CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER



JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
8307355	SC-E011011MA		INSTALL	Fire System #1 TANK FS - 40/40. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood pressure panel.
JOB NAME: Ajeena Mediterranean Cafe & B...		DATE: 10/24/2025	DWG NO: ECP #1-3	

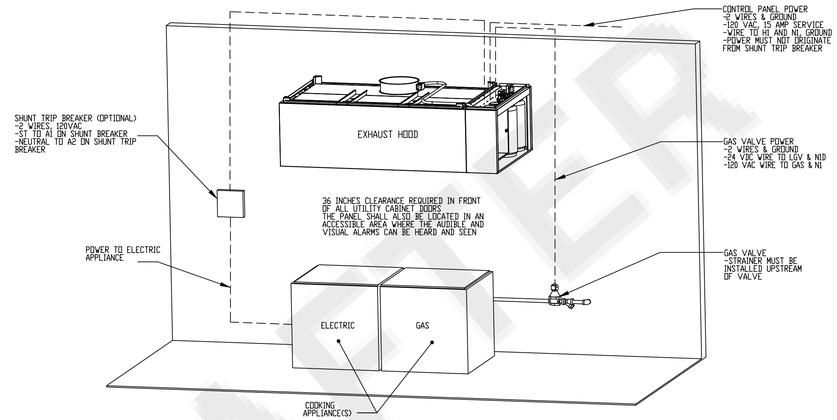
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

FS-1: MASTER

ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

CAD DRAWING

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Ajeena Mediterranean Cafe & Bakery
RICHARDSON, TX, 75080

DATE: 10/24/2025

DWG.#: 8307355

DRAWN BY: FJ

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. M-109

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
8307355	SC-E011011MA		INSTALL	Fire System #1 TANK FS - 40/40 Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood preamp panel.
	JOB NAME: Ajeena Mediterranean Cafe & B...	DATE: 10/24/2025	DWG no: ECP #1-4	

TANK PROTECTION LOW-VOLTAGE DETAIL

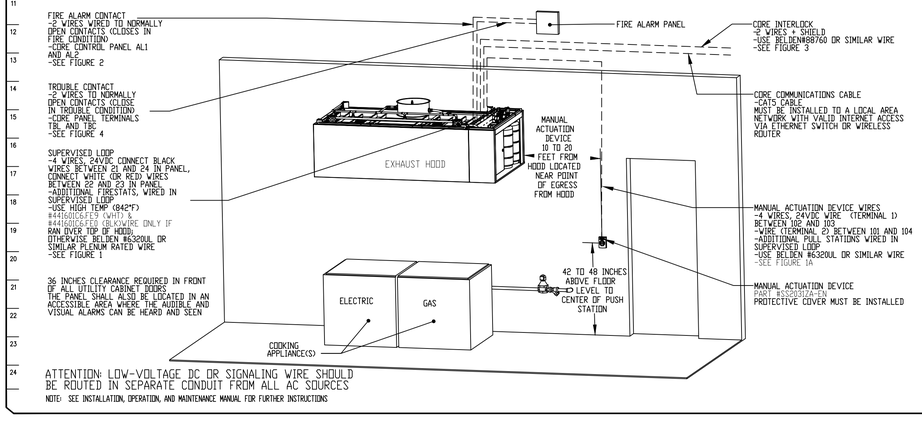
10/01/2023 Rev. 3

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), *REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST
*REMOTE FIRESTAT(S) MAYBE BE REQUIRED DEPENDING ON THE DUCT LAYOUT AND HOOD TEMPERATURE RATING. REFERENCE MANUAL FOR LOCATION AND GUIDELINES.

FS-1: MASTER

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER EXTENSION STI-6550IB
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842°F) #441601C6FE9 (WHT) & #441601C6FE10 (BLK)WIRE ONLY IF RAN OF HOOD, OTHERWISE BELDEN #6320UL OR SIMILAR PLENUM RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) CA, TO CORE SYSTEM (2) CA. CORE SYSTEM (1) CB, TO CORE SYSTEM (2) CB. CORE SYSTEM (1) CC, TO CORE SYSTEM (2) CC. USE BELDEN# 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

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Ajeena Mediterranean Cafe & Bakery
RICHARDSON, TX, 75080

DATE: 10/24/2025

DWG.#: 8307355

DRAWN BY: FJ

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. M-110

DUCTWORK #1 PARTS – JOB#8307355

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1647LT	2200				-0.0152	24.89	1576	1	SINGLE WALL DUCT 16" DIAMETER, 47" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P2	DW1645ASY	2200				-0.0631	7.22	1576	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P3	DW1611LT	2200				-0.0036	6.16	1576	1	SINGLE WALL DUCT 16" DIAMETER, 11" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P4	DW1624AJDKIT	2200				-0.0043	16.63	1576	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 23.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P5	DW16SUBRASY						3.18		1	DUCT SUPPORT BRACKET KIT, 16" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P6	DW1645ASY	2200				-0.1315	7.22	1576	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P7	DW1635LT	2200				-0.0113	18.67	1576	1	SINGLE WALL DUCT 16" DIAMETER, 35" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P8 ASSEMBLED W/P9	DW1648AJDKIT	2200				-0.0081	30.39	1576	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 47.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P9 ASSEMBLED W/P8 D=B	DW2316TPDBEX	2200					8.00	1576	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 16" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE OD IS 23.5" DESIGNED FOR USE WITH EXHAUST FAN.
SYSTEM AT P9						-0.9256	0.00			
	3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	735602000						52.00		5	DUCT - DUCT INSULATION FOR ZERO CLEARANCE TO COMBUSTIBLES - 300" X 24" X 1-1/2" ROLL. UNIFRAX FYREWRAP ELITE 1.5.
	BANDING.5						5.00		2	DUCT - FIRE BARRIER WRAP STAINLESS STEEL BANDING .5" WIDTH - 200 FT PER ROLL.
	DW16CLASY						1.18		7	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
	SEAL.50-50						0.50		2	DUCT - FIRE BARRIER WRAP STAINLESS STEEL BANDING SEAL .5" WIDTH. QUANTITY OF 50.
	TAPEALUM						0.25		1	DUCT - FIRE BARRIER WRAP ALUMINUM FOIL TAPE - 3" X 150' ROLL.
TOTAL WEIGHT							403.47			
TOTAL PRESSURE						-1.1627				

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT)
5"	10'	10'	24'
6"	10'	10'	24'
7"	10'	10'	24'
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'
26"	10'	10'	24'
28"	10'	10'	24'
30"	10'	10'	24'
32"	10'	10'	24'
34"	10'	10'	24'
36"	10'	10'	24'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____ _____

REVISIONS

	DESCRIPTION	DATE:
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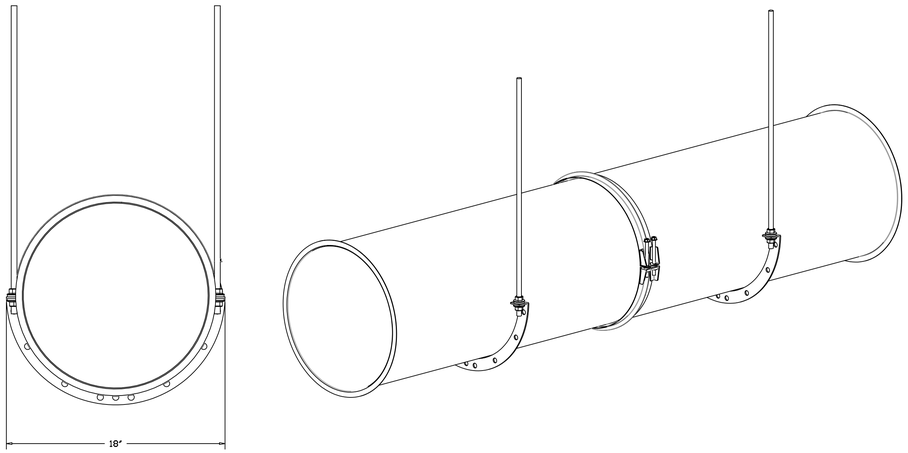
DATE: 10/24/2025
DWG.#: 8307355
DRAWN BY: FJ
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
M-111

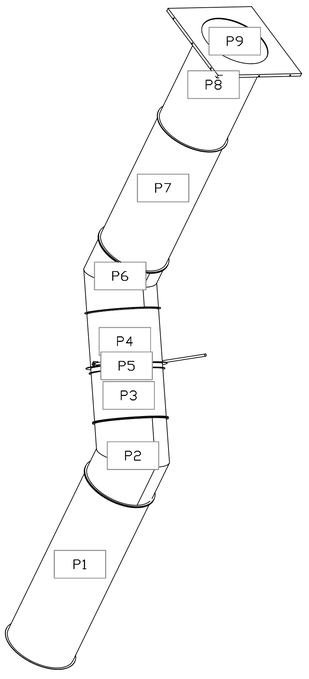
CAPTIVEAIRE

SUPPORT SYSTEM DETAILS #1

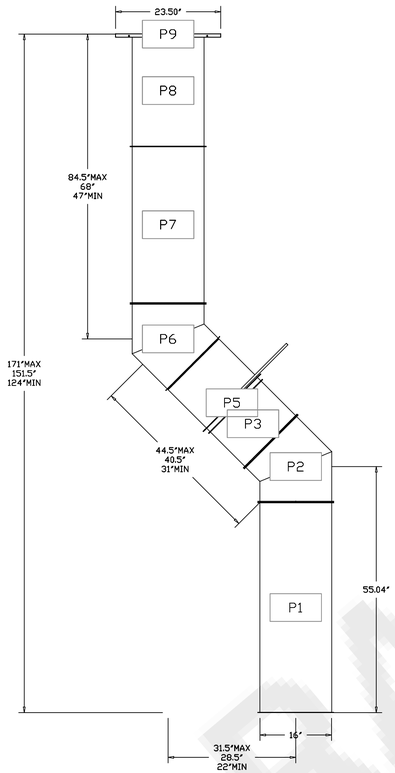
DW16SUBRASY - HORIZONTAL SUPPORT



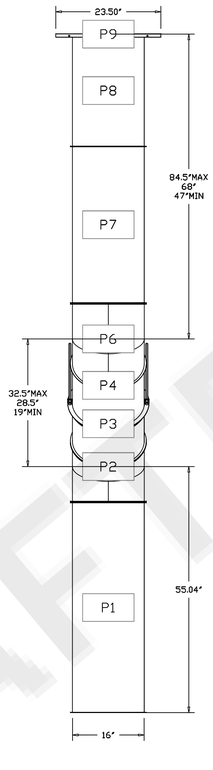
DUCTWORK #1 SE VIEW



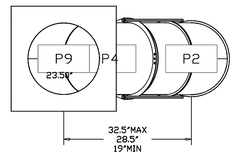
DUCTWORK #1 FRONT VIEW



DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW



CAD DRAFTER

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVE AIRE
www.captiveaire.com
Houston Mechanical
3302 Canal St, Suite 53, Houston, TX, 77003 PHONE: (346) 330 - 2007 FAX: 9195186746 EMAIL: reg128@captiveaire.com

Ajeena Mediterranean Cafe & Bakery
RICHARDSON, TX, 75080

DATE: 10/24/2025

DWG.#: 8307355

DRAWN BY: FJ

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. M-112

PLUMBING GENERAL NOTES

1. All plumbing work shall conform to the International Plumbing Code (IPC 2021), International Energy Conservation Code (IECC 2021), NFPA, and all local plumbing ordinances and requirements of the Authority Having Jurisdiction (AHJ).
2. Contractor shall verify all dimensions, locations, and field conditions prior to installation. Any discrepancies between drawings and actual site conditions shall be reported to the engineer before proceeding.
3. All materials, fixtures, and equipment shall be new, listed, and labeled by an approved agency in accordance with IPC Section 303 and installed per manufacturer's instructions.
4. Water supply systems shall comply with IPC Chapter 6:
   - o Minimum water pressure and pipe sizing per Tables 604.3 and 604.5.
   - o Provide shutoff valves at each fixture and branch line per IPC 606.
   - o Thermal expansion control devices shall be installed per IPC 607.3 when required.
5. Hot water systems shall be designed per IPC 607:
   - o Hot water temperature at fixtures shall not exceed 120°F (49°C) in public areas.
   - o Water heaters shall have temperature and pressure relief valves per IPC 504.6.
   - o Insulate hot water piping per IECC 2021 requirements.
6. Drainage and vent systems shall comply with IPC Chapters 7–9:
   - o Slope horizontal drainage piping per IPC 704.1.
   - o All fixtures shall be trapped and vented per IPC 901.2.
   - o Use approved cleanouts at changes of direction per IPC 708.
7. Sanitary piping shall be PVC Schedule 40, cast iron, or approved equivalent. No stormwater shall discharge into the sanitary system.
8. Grease waste from food service equipment shall discharge through an approved grease interceptor per IPC 1003.3.4 and local health department requirements.
9. Backflow prevention devices shall be installed per IPC 608 and ASSE standards to protect potable water systems from contamination.
10. Plumbing fixtures shall comply with IPC Chapter 4 and WaterSense/DOE flow rate requirements.
    - o Public lavatories: max. 0.5 GPM.
    - o Kitchen sinks: max. 2.2 GPM.
    - o Water closets: max. 1.28 GPF.
11. Floor drains shall be provided in restrooms, janitor closets, and mechanical rooms as required by IPC 412.4.
12. Condensate drains from HVAC equipment shall be installed per IPC 314 and connected to an approved indirect waste receptor.
13. Venting shall be installed per IPC Chapter 9, ensuring no traps are vented in series except where allowed for combination waste and vent systems.
14. Storm drainage systems shall comply with IPC Chapter 11. Verify all roof drain sizes and slopes per Table 1106.2 based on design rainfall rates.
15. Insulate cold and hot water lines to prevent condensation and heat loss per IECC 2021 and ASHRAE 90.1.
16. All pipe supports and hangers shall comply with IPC 308 and manufacturer's specifications.
17. All penetrations through fire-rated assemblies shall be sealed using approved firestop systems per IPC 305.5 and NFPA 221.
18. Testing:
    - • Water piping shall be hydrostatically tested per IPC 312.5.
    - • Drainage and vent systems shall be tested with water or air per IPC 312.2.
    - • Gas piping (if applicable) shall be tested per IFGC 406.
19. Label all piping systems per ANSI/ASME A13.1 to identify service type and direction of flow.
20. Contractor shall coordinate with architectural, structural, and mechanical drawings to ensure proper routing, clearance, and ceiling height before installation

PLUMBING CALCULATIONS

Fixture	Count	Cold_WSFU	Hot_WSFU	Total_WSFU	DFU	Total_Cold_WSFU	Total_Hot_WSFU	Total_WSFU_calc	Total_DFU_calc	Cold_gpm_est	Hot_gpm_est
Commercial WC (flush-tank)	1	2.5	0	2.5	3	2.5	0	2.5	3	2.095	0
Lavatory (vanity)	1	1	1	2	1	1	1	2	1	0.838	0.838
Hand Sink (kitchen/bar/toilet)	3	0.5	0.5	3	1	1.5	1.5	3	3	1.257	1.257
3-Compartment Sink	1	1.5	1.5	3	1	1.5	1.5	3	2	1.257	1.257
floor sink	1	0	0	0	2	0	0	0	2	0	0
Ice Maker	1	1	0	1	2	1	0	1	0.5	0.838	0
Coffee / Espresso Equipment	1	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.419	0.419
Mop Sink	1	1	0	1	0.5	1	0	1	2	0.838	0
Floor Drain	2	0	0	0	2	0	0	0	4	0	0
Under-counter fridge/display condensate	3	0	0	0	0.5	0	0	0	1.5	0	0

DOMESTIC WATER SUPPLY CACULATIONS

Fixture Type	Qty	Cold WSFU	Hot WSFU	Total Cold WSFU	Total Hot WSFU	Total WSFU	Notes
Lavatory	1	1.5	1.5	1.5	1.5	3	IPC Appendix E, Table E103.3(2) for Load Values per fixtures
Water Closet (tank)	1	5	0	5	0	5	IPC Appendix E, Table E103.3(2) for Load Values per fixtures
Hand Sink	3	2	2	6	6	12	UPC 2021, Table 610.3
Mop Cabinet	1	1.5	1.5	1.5	1.5	3	UPC 2021, Table 610.3
3 Compartment Sink	1	3	3	3	3	6	
Total Fixture	8			17	13.4	29	

SO the total WSFU are 29 and we will consider the WSFU 30 to remain in safer side of calculations. SO on 30 WSFU the Total water demand is 24.9 GPM

Grease Interceptor Sizing

Fixture Type	Trap Arm Size	Fixture Units FU	Quantity	Extended
3-Compartment Sink	2"	4	1	4
Prep Sink	2"	4	1	4
MOP Sink	3"	6	1	6
Hand Sink	1-1/4"	2	3	6
Floor Drain	3"	6	3	18
Floor Sink	3"	6	2	12
		Total Fixture Units		**50**
Grease Trap	Grease Interceptor GT1250		AS SHOWN IN PLAN	
GREASE INTERCEPTOR INGROUND WITH SAMPLE WELL				

GREASE INTERCEPTOR SCHEDULE

Mark	Equipment type	Capacity USGal	Grease Capacity (lbs)	Empty Weight (lbs)	Material	Dimensions (L x W x H)	Inlet/Out let Size	Trap Type
GT-1250	Grease Interceptor GT-1250	1250	2900	14650.0	Precast Concrete	9'2" x 5'8" x 6'	6"	Internal Trap

SAMPLE WELL SCHEDULE

Mark	Manufacturer	Well Type	Basin Diameter (in)	Inlet Pipe Size (in)	Outlet Pipe Size (in)	Material	Frame & Cover	Concrete Base	Installation	Remarks
SWBP-156	ParkUSA (Northwest Pipe Co.)	Sample Well Basin (After Grease Interceptor)	18	6	6	HDPE Ribbed Riser	Cast Iron, ASTM A48 Class 30, H-20 Rated	4500 PSI Monolithic Cast-in-Place	Below Grade, Inline	Sampling point between grease interceptor and sanitary sewer

WATER HEATER SCHEDULE

Mark	Manufacturer	Type	Input Range	UEF / Efficiency	Max Flow	Water Connection	Vent & Installation	Dimensions (WxHxD)	Weight	Remark
WH-1	Rinnai America Corporation	CX199iN	15,000 – 199,000 BTU/hr	UEF 0.98, Thermal Efficiency ~97%	~11.0 GPM (≈42 L/min)	¾" NPT (Cold & Hot)	Venting: 2" or 3" PVC/CPVC or concentric. Indoor or outdoor installation.	18.5" × 30.11" × 11.4" (470 mm × 762 mm × 291 mm)	~55 lb (24.5 kg)	WiFi-capable control; recirculation kit optional; isolation valves & service access required.

GRAVITY GREASE INTERCEPTOR SIZING

DRAINAGE FIXTURE UNITS (DFUs)	INTERCEPTOR VOLUME (gallons)
8	500
21	750
35	1000
90	1250
172	1500
216	2000
307	2500
342	3000
428	4000
576	5000
720	7500
2112	10000
2640	15000

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REVISION DATE

No.	Description	Date
1	Revision 1	01/07/26

ISSUE DATES

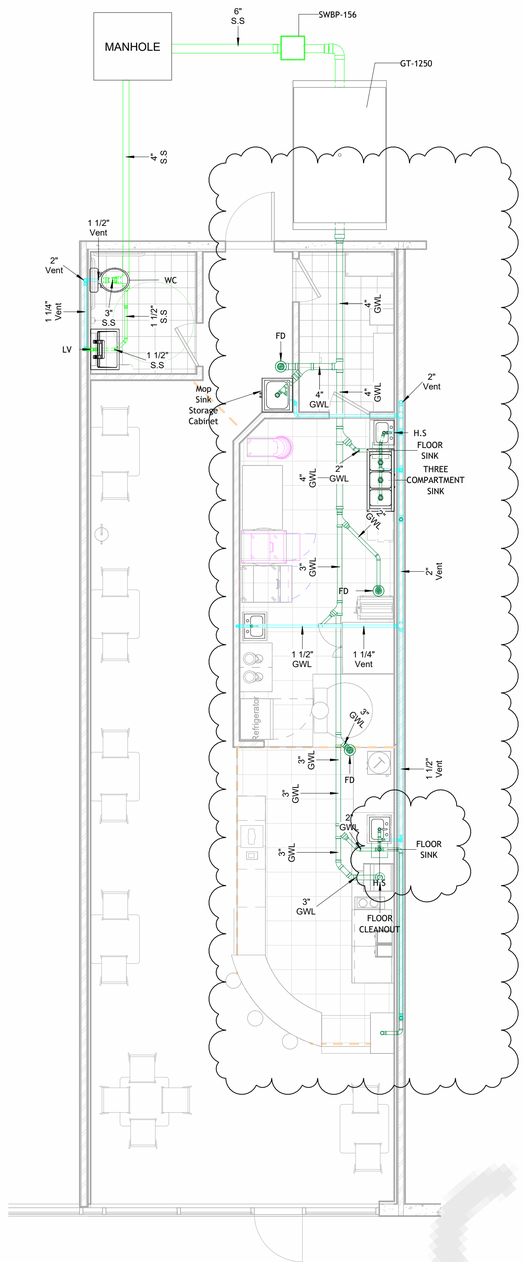
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DATE: 01/13/2026

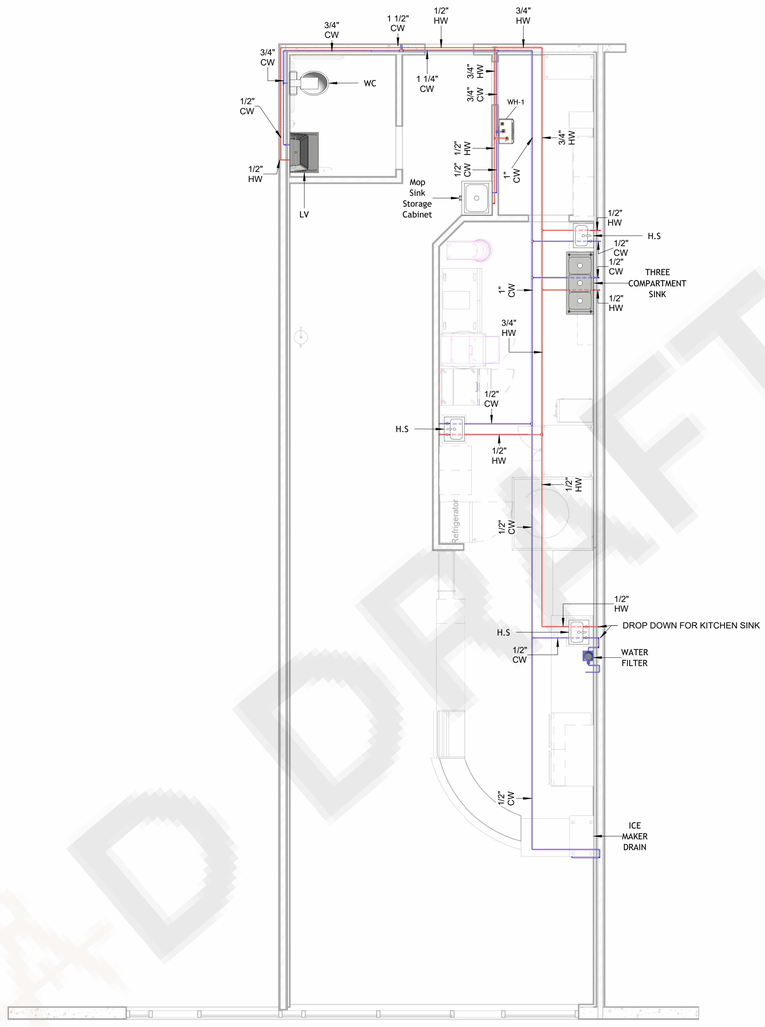
SHEET TITLE: PLUMBING CALCULATIONS & GENERAL NOTES

SHEET NUMBER: P-100



1 FIRST FLOOR SANITARY PLAN

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



2 FIRST FLOOR WATER SUPPLY PLAN

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

ABREVATION

WC	Water Closet	**FD**	Floor Drain	**WP**	Water Pipe
LAV	Lavatory	**TD**	Trench Drain	**WM**	Water Meter
UR	Urinal	**CO**	Cleanout	**PRV**	Pressure Reducing...
KS	Kitchen Sink	**IC**	Inspection Chamber	**BFP / RPZ**	Backflow Preventer
S	Sink	**MH**	Manhole	**GV**	Gate Valve
DS	Dishwasher	**GW**	Grease Waste	**BV**	Ball Valve
WM	Washing Machine	**GI**	Grease Interceptor	**CV**	Check Valve
HB	Hose Bibb	**ST**	Septic Tank	**FV**	Float Valve
SH	Shower	**PL**	Plumbing	**HS**	Hand Sink
BT	Bathtub	**CWS**	Cold Water Supply		
FD	Floor Drain	**HWS**	Hot Water Supply		
SS	Sanitary Sewer	**HWR**	Hot Water Return		
SD	Storm Drain	**DW**	Drinking Water		

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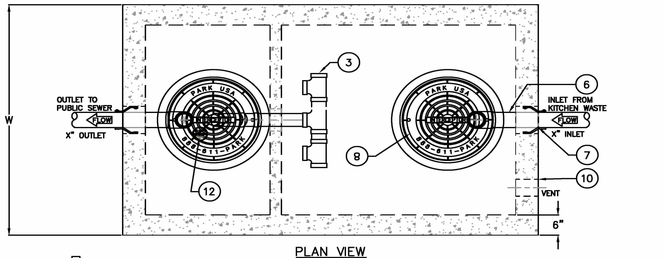
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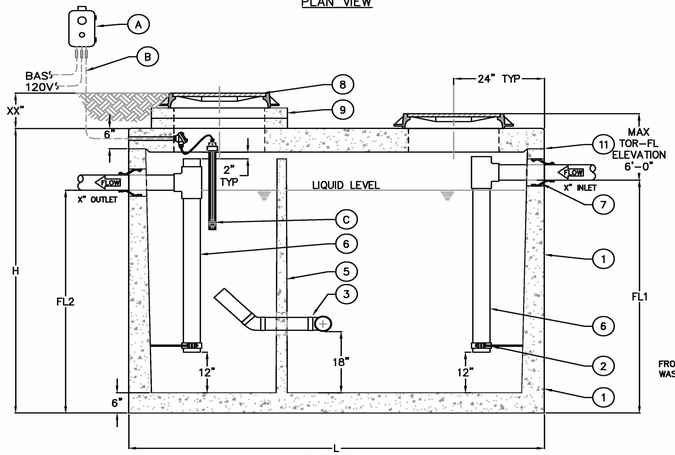
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SHEET NUMBER: P-101

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PLAN VIEW



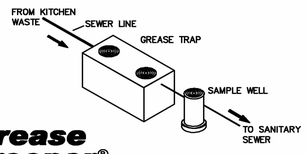
ELEVATION

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	PRECAST CONCRETE GREASE INTERCEPTOR
2	2	GALVANIZED RISER SUPPORT
3	1	6" PVC DOUBLE TEE MANIFOLD
4	–	TAPERED WALL
5	1	MONOLITHIC BAFFLE
6	2	SCH 40 PVC PIPING
7	2	RESILIENT RUBBER BOOT
8	2	24" CAST IRON FRAME & COVER
9	–	CONCRETE EXTENSION RINGS AS REQ'D
10	1	4" VENT COUPLING
11	1	JOINT SEALED w/ PLASTIC FLEXIBLE GASKET (RAMNEK)
12	1	NAMEPLATE INDICATING: MFG: ParkUSA.COM 888-611-PARK MODEL: GT-02 DATE MANUFACTURED

CONTROL NOTES		
MARK	QTY	DESCRIPTION
A	1	SERVICE ALERT PANEL, NOTIFIES OF GREASE MAXIMUM CAPACITY w/ AUDIBLE & VISUAL ALARM (NEMA 4X)
B	–	CABLE & CONDUIT ROUTED TO ALARM (BY OTHERS)
C	1	GREASE SENSOR (NEMA 7)



NAMEPLATE



GREASE INTERCEPTOR SCHEDULE								
MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT–1000	1,000	2,300	13,350	8'–8"	5'–0"	6'–0"	4'–9"	4'–6"
GT–1250	1,250	2,900	14,650	9'–2"	5'–8"	6'–0"	4'–9"	4'–6"
GT–1500	1,500	3,500	16,050	9'–2"	5'–8"	7'–0"	5'–9"	5'–6"
GT–2000	2,000	4,600	21,250	9'–0"	6'–0"	8'–0"	6'–9"	6'–6"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

Grease Trooper®

TYPICAL APPLICATIONS INCLUDE COMMERCIAL AND INDUSTRAIL FOOD SERVICE KITCHENS WHERE EXCESSIVE GREASE MAY INTERFERE WITH THE PROPER DRAINAGE OF THE SEWER SYSTEM. THE GREASE INTERCEPTOR IS GENERALLY BURIED BELOW GRADE FOR GRAVITY FLOW SEWER SYSTEMS. A SAMPLE WELL IS UTILIZED ON THE OUTLET SIDE FOR SAMPLING BY THE LOCAL WATER AUTHORITY.

SPECIFICATIONS

CONCRETE: CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH. (MONOLITHIC BAFFLE REQUIRED, SLIDE–IN TYPE NOT ACCEPTABLE).

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ATSM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48–76 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

ASPE Member

NPCA CERTIFIED PLANT

UPC® Uniform Plumbing Code Listed

Engineering Data

THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO UPC/IPC AND REGIONAL PLUMBING CODES RECOMMENDED IN MOST CITIES. CONSULT WITH LOCAL AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL & BUOYANCY CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER UPON REQUEST.

CONSULT PARKUSA FOR EXACT EXCAVATION DIMENSIONS & SHIPPING INFORMATION.

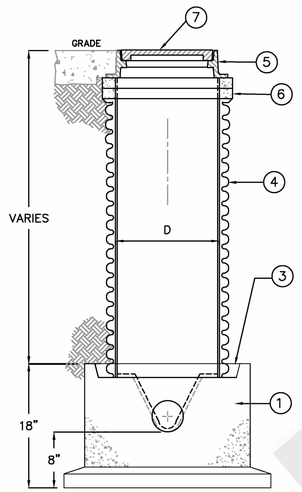
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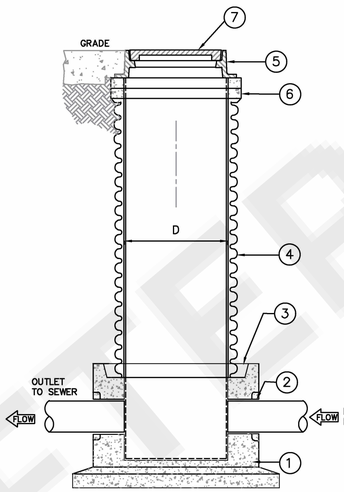
GREASE INTERCEPTOR SERIES GT
MODELS 1,000 THRU 2,000 GALLON CAPACITY

PM	PC	DRN	ENG	DWG. NO.	REV.
.	.	.	.	GT–02–WA	A
DATE 4/24					

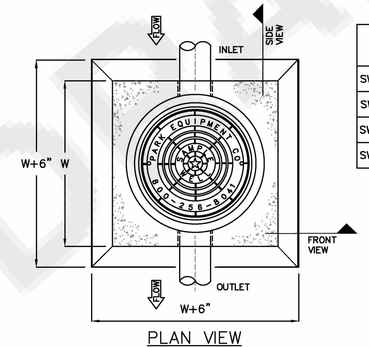
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FRONT VIEW

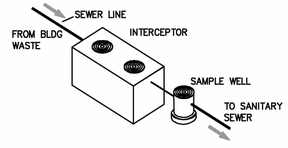


SIDE VIEW



PLAN VIEW

MODEL	DIAMETER "D"	IN & OUT PIPE SIZE	WIDTH "W"
SWBP–154	18"	4"	28"
SWBP–156	18"	6"	28"
SWBP–244	24"	4"	34"
SWBP–246	24"	6"	34"



SAMPLE APPLICATION

KEY NOTES		
MARK	QTY	DESCRIPTION
1	1	CONCRETE BASE W/ HDPE INTERIOR LINER
2	2	SCH 40 PVC SLEEVE (TYP)
3	–	JOINT SEALED w/ NON–SHRINK GROUT
4	1	RISER SECTION HDPE PIPE
5	1	CAST IRON RING & COVER
6	–	CONCRETE EXTENSION RINGS AS REQUIRED
7	1	NAMEPLATE INDICATING: MFG: PARKUSA.COM 888–611–PARK MODEL: SWBP–1 DATE: MANUFACTURED

SPECIFICATIONS

CONCRETE: DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

C.I. CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48–76 CLASS 30, HEAVY–DUTY AASHTO H–20

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PARK USA A Northwest Pipe Company

SAMPLE WELL BASIN
MODEL SWBP

PM	PC	DRN	ENG	DWG. NO.	REV.
.	.	.	.	SWBP–1–WA	A
DATE 4/24					

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Richardson, TX 75080

REVISION DATE

No.	Description	Date
1	Revision 1	01/07/26

ISSUE DATES

TYPE	DATE
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PERMIT SET	
BID SET	
CONSTRUCTION SET	
AS BUILT SET	
DRAWN BY	AF
CHECKED BY	AM

PROJECT NUMBER: 7003-06

DATE: 01/13/2026

SHEET TITLE: GREASE INTERCEPTOR SHOP DRAWING

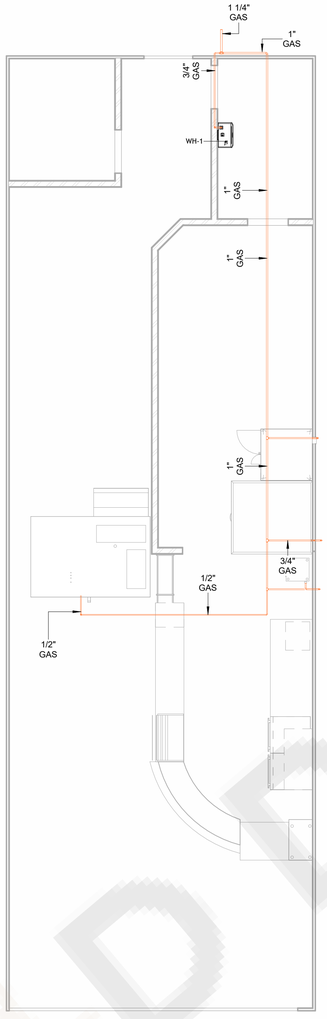
SHEET NUMBER: P-101 A

GAS PIPING NOTES

TYPICAL GAS PIPING NOTES

1. GAS PIPING DESIGN AND INSTALLATION SHALL COMPLY WITH IPC 2024 / IFGC 2024 AND LOCAL AUTHORITY REQUIREMENTS.
2. SYSTEM SIZED FOR NATURAL GAS, SPECIFIC GRAVITY 0.60, HEATING VALUE 1,000 BTU/FT³, PRESSURE DROP 0.5 IN. W.C.
3. GAS PIPING MATERIAL SHALL BE BLACK STEEL, SCHEDULE 40. USE APPROVED FITTINGS AND JOINTS.
4. PIPE SIZES BASED ON LONGEST RUN METHOD PER IFGC APPENDIX A (0.5 IN. W.C. DROP).
5. EQUIPMENT INPUT RATES IN BTU/HR. CONVERTED USING 1 CF = 1,000 BTU FOR SIZING.
6. PROVIDE MANUAL SHUTOFF VALVE AT EACH APPLIANCE AND BRANCH CONNECTION.
7. INSTALL SEDIMENT TRAP AT EACH APPLIANCE INLET PER IFGC 409.
8. PRESSURE TEST GAS PIPING TO 10 PSI AIR FOR 15 MINUTES WITH NO PRESSURE DROP BEFORE CONCEALMENT.
9. REGULATORS AND VENTS TO BE INSTALLED AND TERMINATED AS PER IFGC 410 REQUIREMENTS.
10. INCLUDE EQUIVALENT LENGTH OF FITTINGS AND VALVES IN PIPE SIZING CALCULATIONS.
11. PROVIDE CORROSION PROTECTION FOR BURIED OR EXPOSED OUTDOOR PIPING.
12. PROVIDE SLEEVES WHERE PIPING PASSES THROUGH WALLS OR FOUNDATIONS.
13. IDENTIFY ALL EXPOSED GAS PIPING WITH YELLOW LABELS AND FLOW DIRECTION ARROWS.
14. MAINTAIN CLEARANCES FROM ELECTRICAL CONDUITS AND AIR DUCTS AS PER CODE.
15. GAS PRESSURE DOWNSTREAM OF METER TO BE LOW PRESSURE (≤ 14 IN. W.C.) UNLESS NOTED OTHERWISE.
16. USE LISTED FLEXIBLE GAS CONNECTORS FOR APPLIANCES WHERE PERMITTED (MAX 6 FT LENGTH).
17. VERIFY FINAL EQUIPMENT BTU RATINGS AND INLET PRESSURES WITH MANUFACTURER BEFORE INSTALLATION.
18. PROVIDE ADEQUATE COMBUSTION AIR AND VENTILATION PER IFGC CHAPTER 3.
19. ALL WORK TO BE INSPECTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION BEFORE SERVICE.

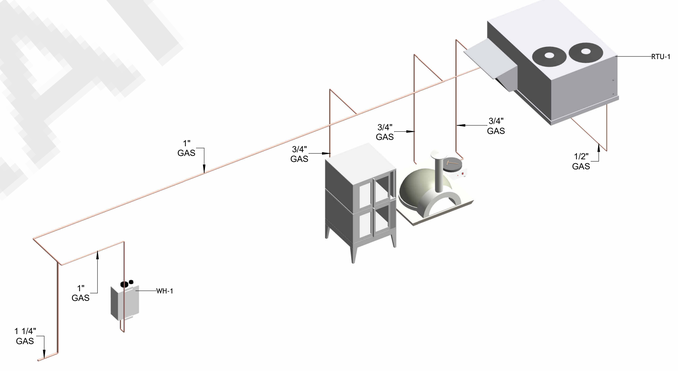
ABREVATION					
WC	Water Closet	**FD**	Floor Drain	**WP**	Water Pipe
LAV	Lavatory	**TD**	Trench Drain	**WM**	Water Meter
UR	Urinal	**CO**	Cleanout	**PRV**	Pressure Reducing...
KS	Kitchen Sink	**IC**	Inspection Chamber	**BFP / RPZ**	Backflow Preventer
S	Sink	**MH**	Manhole	**GV**	Gate Valve
DS	Dishwasher	**GW**	Grease Waste	**BV**	Ball Valve
WM	Washing Machine	**GI**	Grease Interceptor	**CV**	Check Valve
HB	Hose Bibb	**ST**	Septic Tank	**FV**	Float Valve
SH	Shower	**PL**	Plumbing	**HS**	Hand Sink
BT	Bathtub	**CWS**	Cold Water Supply		
FD	Floor Drain	**HWS**	Hot Water Supply		
SS	Sanitary Sewer	**HWR**	Hot Water Return		
SD	Storm Drain	**DW**	Drinking Water		



1 GAS SUPPLY PLAN

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

GAS PIPING CALCULATIONS				
KEY VALUE	**EQUIPMENT NAME**	**INPUT BTU/hr**	**CFH**	**BRANCH PIPE SIZE**
6	GAS CONVECTION OVEN	100000	100	3/4"
16	BREAD MAKER (SAJ)	60000	60	3/4"
17	BAKING OVEN	200000	200	3/4"
22	WATER HEATER	190000	190	3/4"
	TOTAL	**550000**	**550**	**1-1/4"**



2 GAS RISER DIAGRAM

Scale:

C⚠D DRAFTER

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REVISION DATE

No.	Description	Date
1	Revision 1	01/07/26

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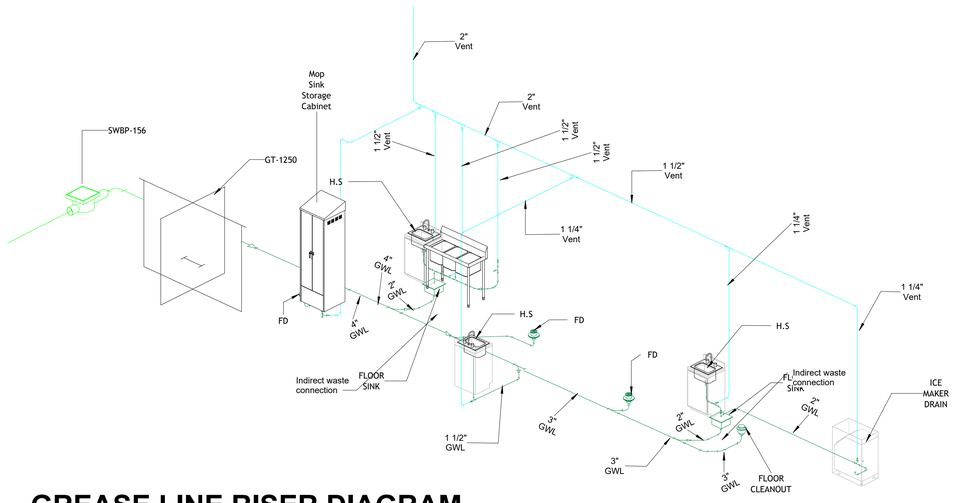
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DATE: 01/13/2026

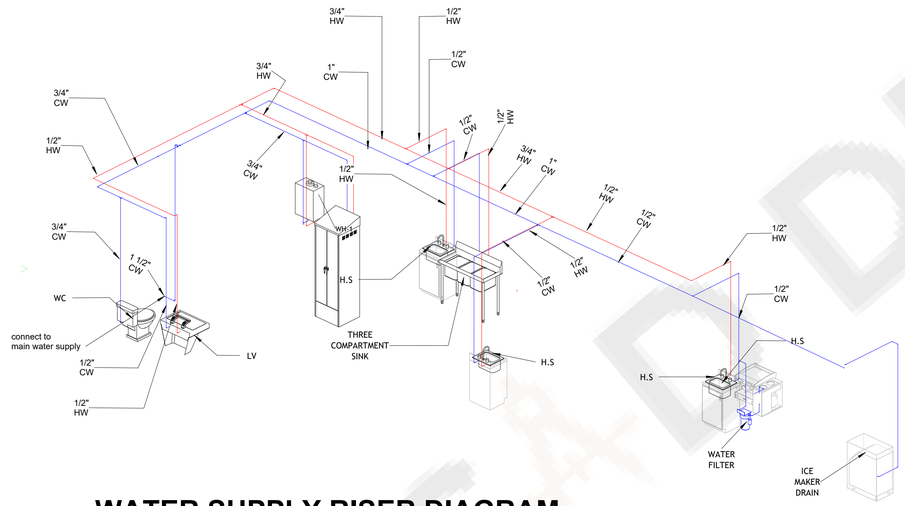
SHEET TITLE: GAS SUPPLY PLAN

SHEET NUMBER: P-102



1 GREASE LINE RISER DIAGRAM

Scale:

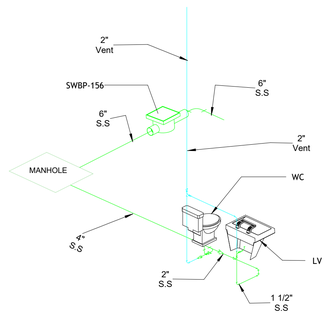


2 WATER SUPPLY RISER DIAGRAM

Scale:

LEGEND	
	Grease Line
	Sewer Pipe
	Vent Pipe
	Cold Water Supply
	Hot Water Supply

ABREVATION					
WC	Water Closet	**FD**	Floor Drain	**WP**	Water Pipe
LAV	Lavatory	**TD**	Trench Drain	**WM**	Water Meter
UR	Urinal	**CO**	Cleanout	**PRV**	Pressure Reducing...
KS	Kitchen Sink	**IC**	Inspection Chamber	**BFP / RPZ**	Backflow Preventer
S	Sink	**MH**	Manhole	**GV**	Gate Valve
DS	Dishwasher	**GW**	Grease Waste	**BV**	Ball Valve
WM	Washing Machine	**GI**	Grease Interceptor	**CV**	Check Valve
HB	Hose Bibb	**ST**	Septic Tank	**FV**	Float Valve
SH	Shower	**PL**	Plumbing	**HS**	Hand Sink
BT	Bathtub	**CWS**	Cold Water Supply		
FD	Floor Drain	**HWS**	Hot Water Supply		
SS	Sanitary Sewer	**HWR**	Hot Water Return		
SD	Storm Drain	**DW**	Drinking Water		



3 SANITARY RISER DIAGRAM

Scale:

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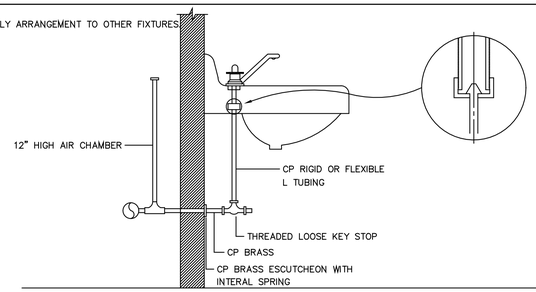
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CHECKED BY	AM

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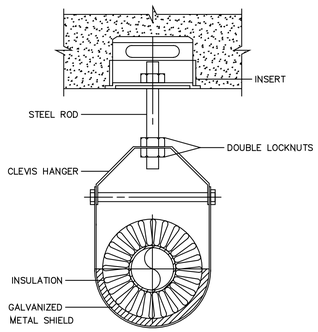
DATE: 01/13/2026

SHEET TITLE: PLUMBING RISER DIAGRAM

SHEET NUMBER: P-103



LAVATORY SUPPLY CONNECTION 9

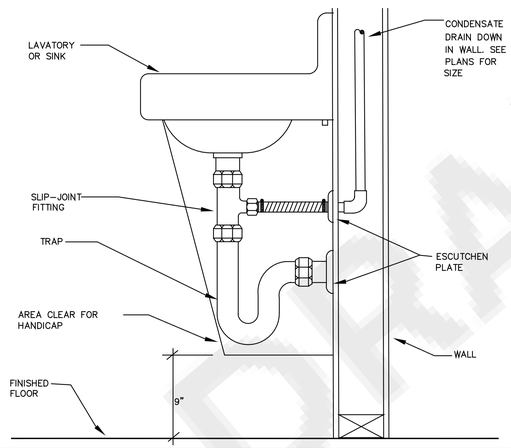


WITH INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	6"	18
4" UP TO 6"	8"	16
8" AND LARGER	12"	16

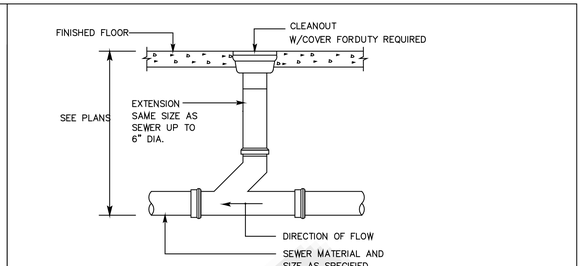
WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	12"	18
UP TO 4"	15"	16
UP TO 5"	18"	16
UP TO 6"	21"	16
8" AND LARGER	24"	14

NOTE:
HANGER, ROD AND INSERT SHALL BE DIPPED IN RED OXIDE PRIMER PRIOR TO INSTALLATION.

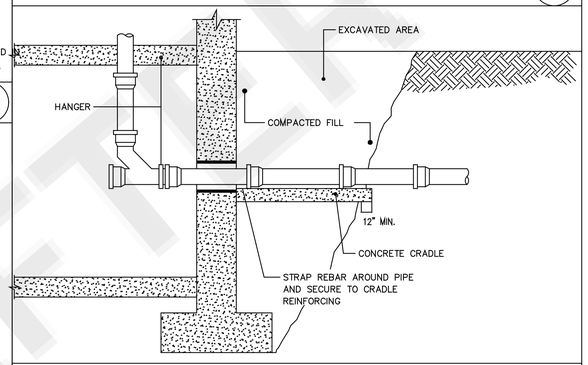
INSULATED PIPE SUPPORT 5



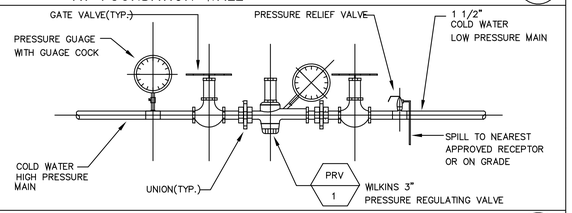
CONDENSATE TO TAILPIECE DETAIL 6



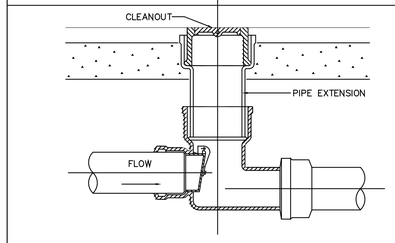
FLOOR MOUNTED CLEANOUT DETAIL 1



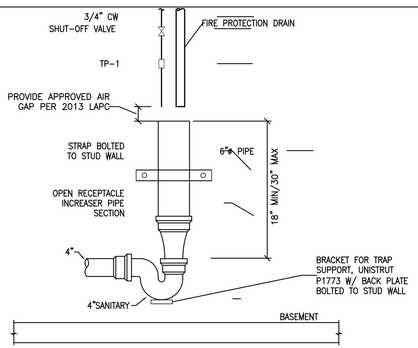
UNDERGROUND SUPPORT FOR PIPING AT FOUNDATION WALL 2



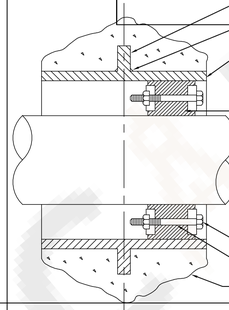
PRESSURE REDUCING VALVE 3



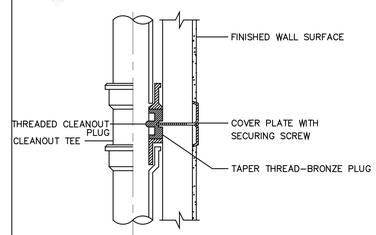
BACKWATER VALVE DETAIL 4



HUB DRAIN 11



WALL SLEEVE THROUGH CONCRETE DETAIL 10



CLEANOUT FOR SEWER LINE PIPING CONCEALED BEHIND WALLS 7

DRAFT

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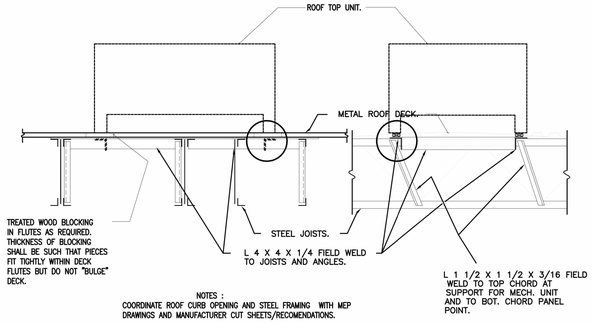
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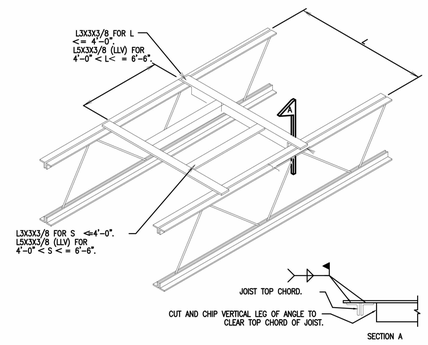
SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P-104

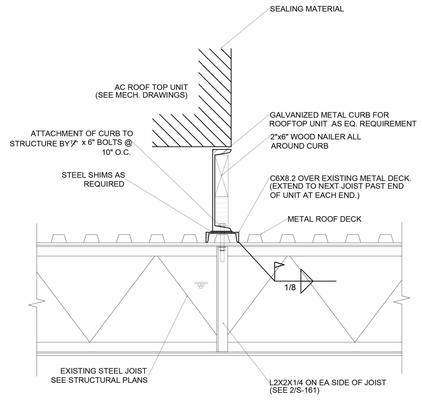


4 ROOF TOP UNIT DETAIL

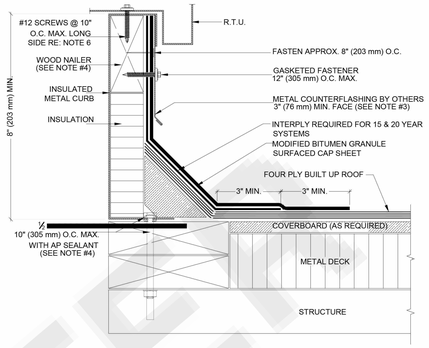
SPAN	ANGLE SIZE
UP TO 4'-0"	L3X3X3/16
4'-1" TO 6'-0"	L4X3X1/4 (LLV)
6'-1" TO 8'-0"	L5X3X1/4 (LLV)
8'-1" TO 10'-0"	L6X4X5/16 (LLV)



5 TYPICAL ROOF OPENING SUPPORT FRAMING



6 TYPICAL ANCHORING ROOF EQUIPMENT



NOTES:
1. ATTACH NAILER TO DECK WITH SUITABLE FASTENER.
2. ALL SHEET METAL TO BE INSTALLED PER SMACNA GUIDELINES.
3. GRANULES MUST BE EMBEDDED WHEN USING TORCH APPLIED GRANULE SURFACED CAP SHEETS PRIOR TO COMPLETING SIDE LAPS. FLASHING LAPS MUST BE OFFSET FROM FIELD SHEET LAPS A MIN. 12".
4. THE CURBS, TOP WOOD NAILER, AND SEAL STRIP MANUFACTURER.
5. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.
6. ROOFTOP ATTACHMENT AS INDICATED ASCE 7-05 FOR BUILDING CATEGORY II

7 PREFABRICATED METAL CURB DETAIL

7 TRUSS–BEAM FLANGE BRACE DETAIL (TYP)

NOTES:
1. PROVIDE SIMILAR FRAMING AT ROOF DRAINS.
2. WELD/CONNECT DECK TO ALL FRAMING AT 6" OC MAXIMUM SPACING. COORDINATE WITH ENGINEER FOR SPECIAL DETAILS REQUIRED TO CONNECT ANGLES TO EXISTING DECK IN AN INSTALLATION OF NEW UNIT ON EXISTING ROOF FRAMING.
3. WHEN JOIST BRIDGING CONFLICTS WITH ROOF OPENING FRAMES, STOP BRIDGING AT EACH SIDE OF OPENING, PROVIDE CROSS BRIDGING AT LAST BRIDGING SPACE EACH SIDE OF OPENING AND CONNECT ENDS OF BRIDGING TO OPENING FRAMING. ADD ADDITIONAL BRIDGING AND CROSS BRIDGING ON EACH SIDE OF OPENING ON EACH SIDE OF CUT BRIDGING AREA WITH BRIDGING EXTENDED ONE BAY BEYOND EACH SIDE OF OPENING.
4. ANCHOR EQUIPMENT AND CURB TO MISCELLANEOUS FRAMING SHOWN AS REQUIRED FOR WINDAND/OR SEISMIC FORCES. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER (CONNECTION DESIGN NOT BY PES STRUCTURAL ENGINEERS).

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SHEET TITLE: RTU STRUCTURAL DETAILS

SHEET NUMBER: S-100