

SCHEDULE OF RESPONSIBILITY		LANDLORD	CONTRACTOR	MARKETS	OWNER
NOTE: SEE EQUIPMENT SCHEDULE FOR DIVISION OF EQUIPMENT ORDERS, SUPPLY AND INSTALLATION RESPONSIBILITY		REPAIR	FINISH	INSTALL	INSTALL
CEILING	REMOVE SLAB FOR NEW IN-FLOOR PLUMBING		X		
	REPAIR, LEVEL AND SLOPE FOR FINISHES AND TRANSITION		X		
FLOOR	INSTALL NEW CONC. SLAB		X		
	VINYL COMPOSITION TILE		X		
WALLS	CERAMIC TILE, BASE AND GROUT		X		
	QUARRY TILE, BASE AND GROUT		X		
FRAMING	FRAMING & GYPSUM BOARD		X		
	U.L. PENETRATION CALKING AT RATED ASSEMBLIES		X		
PAINTING	INSTALL GYPSUM BOARD ON EXISTING FRAMING		X		
	ADDITIONAL PLYWOOD AND GYPSUM		X		
INTERIOR	F.R.P. PANELS, WAINSCOTS, AND TILE WALL		X		
	PAINTING AND STAINING		X		
EXTERIOR	GYPSUM BOARD CEILING AND SOFFIT		X		
	LINEN CEILING WITH SUSPENSION SYSTEM		X		
MECHANICAL	DOORS, FRAMES AND HARDWARE		X		
	MENU BOARD SOFFIT		X		
ELECTRICAL	NEW REAR DOOR, OPENING FOR WALK-IN		X		
	NEW DRIVE-THRU WINNING		X		
PLUMBING	NEW KITCHEN EXIT DOOR		X		
	MILLWORK		X		
FURNITURE	COUNTERS		X		
	FURNITURE		X		
SIGNAGE	KITCHEN EQUIPMENT		X		
	EXHAUST HOOD, FANS		X		
HVAC	OUTDOOR TABLES / CHAIRS / UMBRELLAS		X		
	EXTERIOR SIGN (SEPERATE PERMIT)		X		
MECHANICAL	MENU SIGNS		X		
	INTERIOR WALL GRAPHICS		X		
PLUMBING	NEW A.C. UNIT, SUSPENSION AND MOUNTING SYSTEM		X		
	WIRING AND CONNECTION		X		
ELECTRICAL	DUCTWORK AND DAMPERS		X		
	HVAC GRILLS		X		
PLUMBING	THERMOSTATS AND CONTROLS		X		
	CONTROL WIRE (LOW VOLTAGE)		X		
MECHANICAL	TOILET EXHAUST FAN		X		
	EXISTING WATER SERVICE TO SPACE		X		
PLUMBING	EXISTING METER NOT TO SPACE		X		
	FINAL CONNECTION		X		
ELECTRICAL	HVAC CONNECTIONS		X		
	GAS PIPING A/C		X		
PLUMBING	WATER HEATER		X		
	RESTROOM PLUMBING FIXTURES		X		
ELECTRICAL	GREASE INTERCEPTOR		X		
	MAIN ELECTRICAL PANEL TO SPACE		X		
MECHANICAL	NEW BREAKERS AS REQUIRED & NEW SUB-PANEL		X		
	EQUIPMENT ROUGH-IN AND FINISH		X		
PLUMBING	LIGHT FIXTURES, MOUNTING, ACCESSORIES, AND LAMPS		X		
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TYPICAL FIRE PENETRATION SIGNAGE:
**FIRE AND SMOKE
 BARRIER, PROTECT
 ALL OPENINGS**

GENERAL NOTES:

- EACH NEW/EXISTING FIRE WALL, FIRE BARRIER, FIRE PARTITION, SMOKE BARRIER, SMOKE PARTITION, OR ANY NEW/EXISTING WALL REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE ANY DECORATIVE CEILING AND IN ALL CONCEALED SPACES WITH THE WORDING "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS" OR SIMILAR LANGUAGE. SUCH SIGNS OR STENCILING SHALL BE PROVIDED WITH 4" IN. HIGH LETTERS, AND IN. STROKE, AND NOT MORE THAN 15' FEET ON-CENTER. SUCH SIGNS OR STENCILING SHALL BE PROVIDED WITH RED LETTERING AND PROVIDED ON BOTH SIDES OF SAID ASSEMBLIES.

KEY NOTES

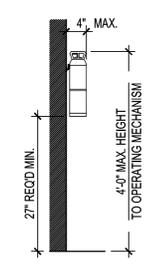
- MAXIMUM DIFFERENCE IN FLOOR ELEVATION ON BOTH SIDES OF ALL EGRESS DOORS TO REMAIN AT 1/2" MAX. IN ACCORDANCE WITH THE CODE, TYP.
- 3'-0" CLEAR AREA IN FRONT OF ELECTRICAL PANELS
- NOT USED.
- NOT USED
- WALK-IN COOLER
- FIRE EXTINGUISHERS

NOTES

PER THE 2021 INTERNATIONAL FIRE CODE (SEE G-1), SECTION 1011.3 A TACTILE SIGN STATING "EXIT AND COMPLYING WITH ICC A117.1 (RAISED LETTERING AND BRAILLE) IS TO BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY, THE EXIT DISCHARGE, AREA OF RESCUE, AND EXTERIOR AREA FOR ASSISTED RESCUE. SIGNS SHALL BE PLACED ON THE WALL, ON THE LATCH SIDE OF THE DOOR, 48 TO 60 INCHES OFF OF THE FLOOR.

FIRE EXTINGUISHER ANALYSIS

- CLASSIFICATION OF HAZARD : (N.F.P.A 10 SECTION 1-5)
 LIGHT (LOW) HAZARD
 (N.F.P.A 10 SECTION 1-5.2)
 MINIMUM RATED SINGLE EXTINGUISHER = 2A
 (N.F.P.A 10 TABLE 3-2.1)
 MAXIMUM FLOOR AREA PER UNIT OF A = 3000 SF
 (N.F.P.A 10 TABLE 3-2.1)
 MAXIMUM FLOOR AREA FOR EXTINGUISHER = 11,250 SF
 (N.F.P.A 10 TABLE 3-2.1)
 MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER = 75 FEET
 (N.F.P.A 10 TABLE 3-2.1)
- FIRE EXTINGUISHER SPECIFICATION:
 MANUFACTURER : LARSENS
 SERIES : MP-SERIES/MULTI PURPOSE DRY CHEMICAL
 MODEL NO : MP5 (UL RATING 2A-10B.C)
 BRACKET : PROVIDE RECESSED CABINET



BUILDING DATA

NAME OF PROJECT: MARCO'S PIZZA (INTERIOR ALTERATION)
 ADDRESS: 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

THIS PROJECT WAS DESIGNED UNDER:
 THE 2021 INTERNATIONAL BUILDING CODE (SEE GEN. NOTE 2 ON G-1)

PROPOSED USE: RESTAURANT (UNDER 50 OCCUPANTS)
 CODE ENFORCEMENT JURISDICTION: CITY OF THORNTON, COLORADO
 GROSS AREA TENANT SPACE: 1,340 S.F. (EXISTING)
 CONSTRUCTION TYPE: IIB SPRINKLERED
 OCCUPANCY CLASSIFICATION: B
 OCCUPANT LOAD: 11 PERSONS (SEE LIFE SAFETY PLAN ON G-2)
 EGRESS WIDTH REQUIRED: 11 PERSONS x .2' = 2.2" (MIN. 36" REQUIRED)
 EGRESS DOORS PROVIDED: 2
 (1) 3'-0" x 7'-0" STOREFRONT DOOR
 (1) 3'-0" x 7'-0" HOLLOW METAL DOOR
 PLUMBING FIXTURES REQUIRED / PROVIDED:
 PLUMBING FIXTURES REQUIRED / PROVIDED PER 2902.2 (2021 I.B.C.):
 REQUIRED: UNISEX: 1 TOILET & 1 LAV.
 PROVIDED: UNISEX: 1 TOILET & 1 LAV.

MAXIMUM TRAVEL DISTANCE: 250'-0"
 PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH N.F.P.A. 10

DEFERRED PERMITS

THE GENERAL CONTRACTOR SHALL SUBMIT PLANS AND DOCUMENTATION FOR THE FOLLOWING ITEMS TO THE BUILDING / FIRE PLAN REVIEW OFFICES FOR THE FOLLOWING ITEMS:

- HOOD FIRE SUPPRESSION SYSTEM
- EXTERIOR SIGNAGE
- FIRE SPRINKLER SYSTEM MODIFICATIONS



**GERALD P. NOE
 ARCHITECT**

COLORADO REGISTRATION NO. 401357

399 LUCERNE DRIVE
 SPARTANBURG, SC 29302
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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
SINGH CHEESE, LLC

HARMAN SINGH
 6038 LYNC CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME: **6077**

INTERIOR UP-FIT

HIGH POINTE RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:
LIFE SAFETY PLAN

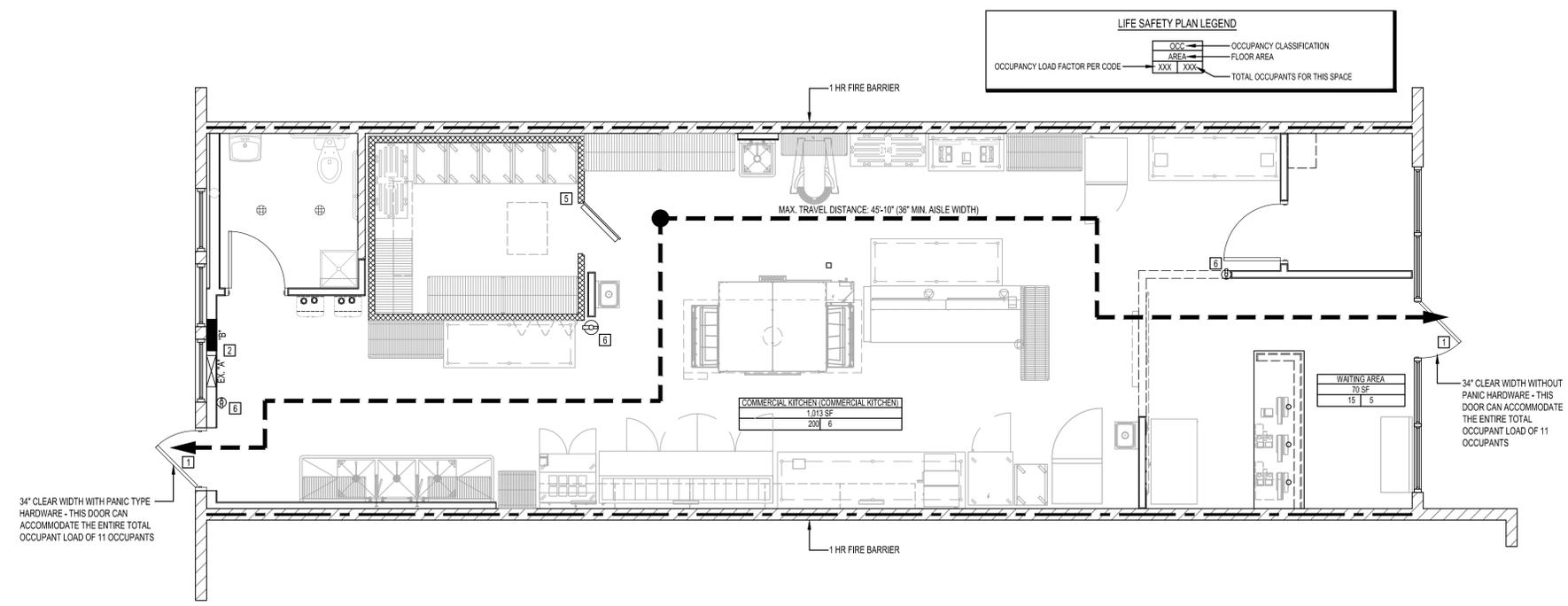
PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

G-2.0

SHEET 2 OF 4



1 LIFE SAFETY PLAN
 1/4" = 1'-0"

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1 SITE KEY PLAN
NOT TO SCALE



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NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME: **6077**
 **INTERIOR UP-FIT**
 HIGH POINTE RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:
KEY PLAN

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

G-2.1

SHEET 2 OF 4

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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

ACCESSIBILITY DETAILS

PROJECT NUMBER 24-137

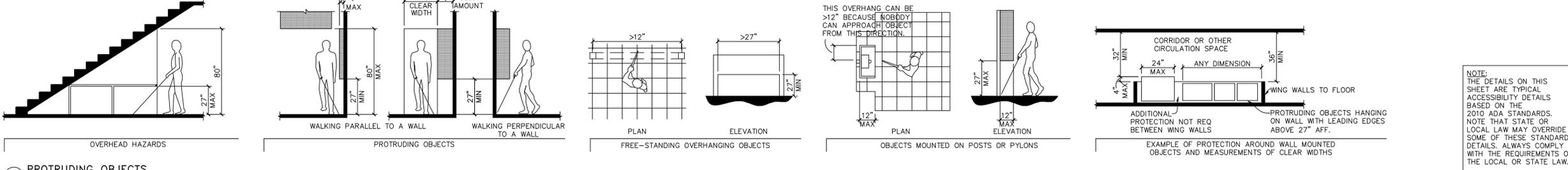
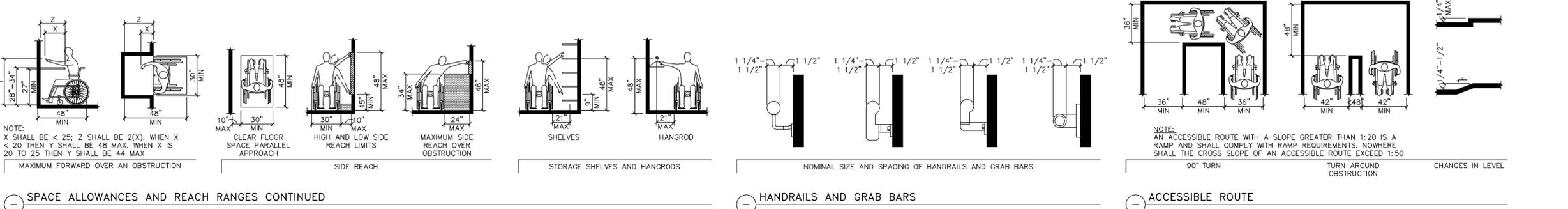
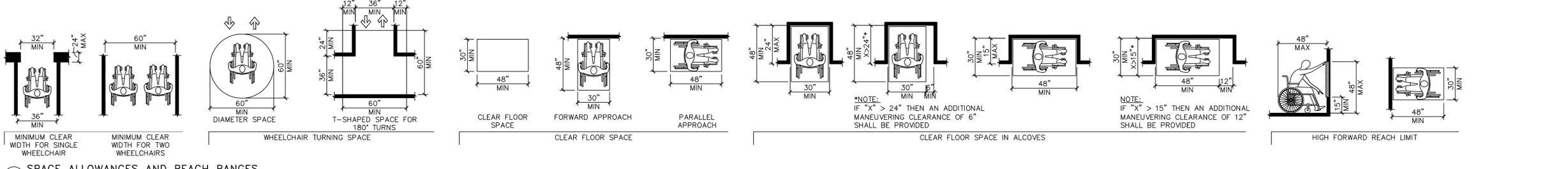
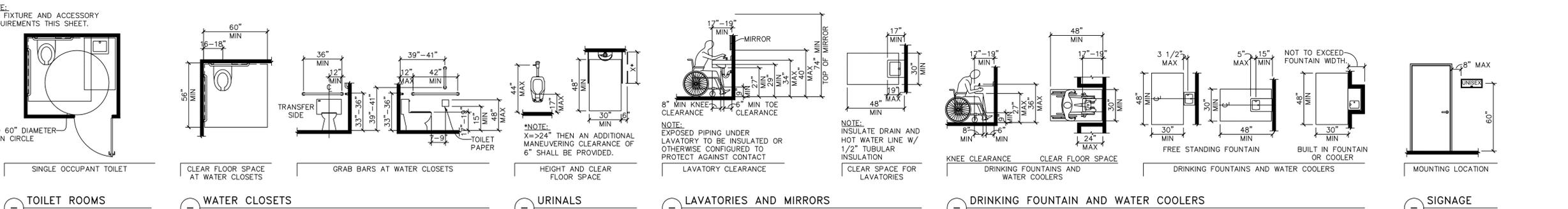
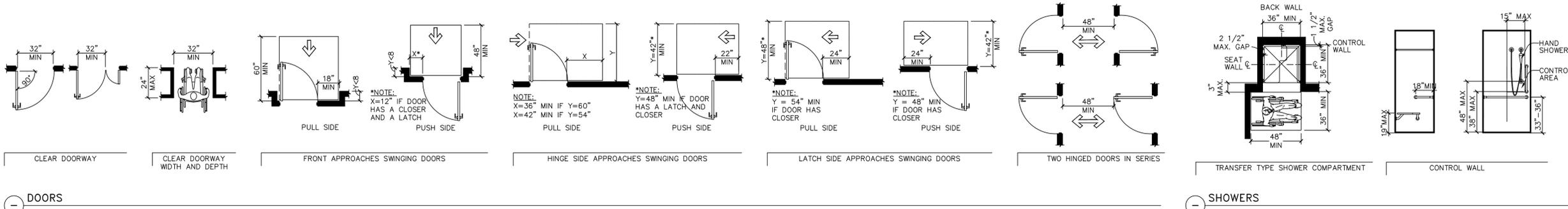
DATE 10-08-2024

SHEET NO.

G-3.0

SHEET 3 OF 4

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.



NOTE: THE DETAILS ON THIS SHEET ARE TYPICAL ACCESSIBILITY DETAILS BASED ON THE 2010 ADA STANDARDS. NOTE THAT STATE OR LOCAL LAW MAY OVERRIDE SOME OF THESE STANDARD DETAILS. ALWAYS COMPLY WITH THE REQUIREMENTS OF THE LOCAL OR STATE LAW.

System No. W-L-1243

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0	FT Rating — 0
L Rating At Ambient - 5 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient - 5 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft

SECTION A-A

- Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the Fire Resistance Directory and shall include the following construction features:
 - Studs — Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. (610 mm) OC.
 - Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft. (1.2 m) wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Designs. Max diam of opening is 3-1/2 in. (89 mm).
 The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
- Through-Penetrant — Max one flexible metal pipe or conduit installed concentrically or eccentrically within opening. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of penetrants may be used:
 - Flexible Metal Conduit+ — Nom 2 in. (51 mm) diam (or smaller) aluminum or steel flexible conduit installed either concentrically or eccentrically within the firestop system. The annular space between conduit and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Conduit to be rigidly supported on both sides of wall assembly.
 See Flexible Metal Conduit (DXL2) category in the Electrical Construction Materials Directory for names of manufacturers.
- Through Penetrating Product* — Flexible Metal Piping — The following types of steel flexible metal gas piping may be used:
 - Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. OMEGA FLEX INC
 - Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. GASTITE, DIV OF TITFLEX
 - Min 5/8 in. (16 mm) thickness of fill material applied with annulus, flush with both surfaces of the wall. At point contact location between penetrant and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the penetrant /gypsum board interface on both sides of wall. WARD MFG L L C

HILTI
Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-2098

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 2 Hr (See Item 1)
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft

SECTION A-A

- Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 4-3/8 in. (111 mm).
 The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrants — One nonmetallic pipe installed within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly. The space between pipe and periphery of opening shall be min 3/4 in. (19 mm) to max 1-1/4 in. (32 mm). Pipe to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) piping systems.
- Fill, Void or Cavity Materials* — Sealant — Installed to completely fill the annular space between the pipes and gypsum wallboard on both sides of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 26, 2015

System No. W-L-5293

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)	FT Ratings - 1 and 2 Hr (See Item 1)
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Ratings - 1 and 2 Hr (See Item 1)

SECTION A-A

- Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board* — Thickness, type, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).
 The hourly F, T, FT, FH and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrants — One Chlorinated Polyvinyl Chloride (CPVC) Pipe nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Nom 1-1/2 in. (38 mm) diam (or smaller) SDR 11 or SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems. Pipe to be rigidly supported on both sides of wall.
- Pipe Covering* — Nom 1 in. (25 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe or tubing and periphery of the opening shall be min. 1/4 in. (6 mm) to max 7/8 in. (22 mm).
- See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
- Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of sealant applied within annulus, flush with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 26, 2015

System No. W-L-1175

F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating at Ambient - Less Than 1 CFM/sq ft
L Rating at 400 F - Less Than 1 CFM/sq ft

SECTION A-A

- Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - Gypsum Board* — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 5-1/2 in. The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant — One metallic tubing or conduit installed concentrically within the firestop system. Tube or conduit to be rigidly supported on both sides of wall assembly. The annular space between the tube or conduit and periphery of the steel sleeve shall be min 0 in. (point contact) to max 1 in. The following types and sizes of metallic tube or conduit may be used:
 - Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
- Fill Void or Cavity Material* — Putty — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and wall, a 1/4 in. crown of fill material shall be applied at the conduit/wall interface on both sides of the assembly, lapping 1/4 in. on the conduit and 1/4 in. beyond the periphery of the opening. HILTI INC — CP618 Putty Slick

*Bearing the UL Classification Mark

HILTI
Hilti Firestop Systems

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GP | N

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COLORADO REGISTRATION NO. 401357

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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:
MARCO'S PIZZA 6077
INTERIOR UP-FIT

HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:
UL DESIGN DETAILS

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

G-4.0

SHEET 4 OF 4

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.



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NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

SLAB & DEMOLITION PLAN

PROJECT NUMBER 24-137

DATE 10-08-2024

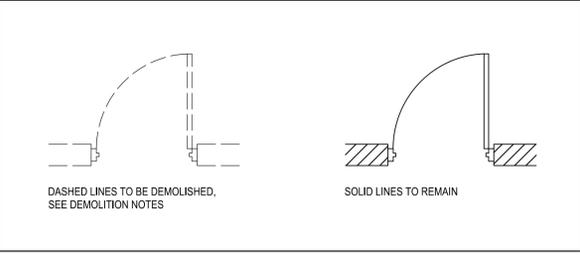
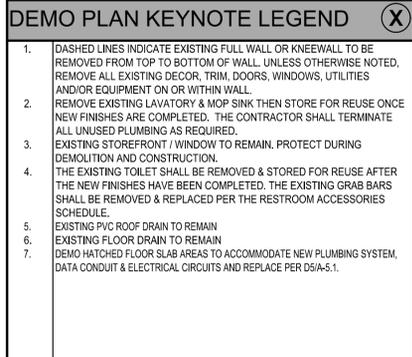
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A-0.1

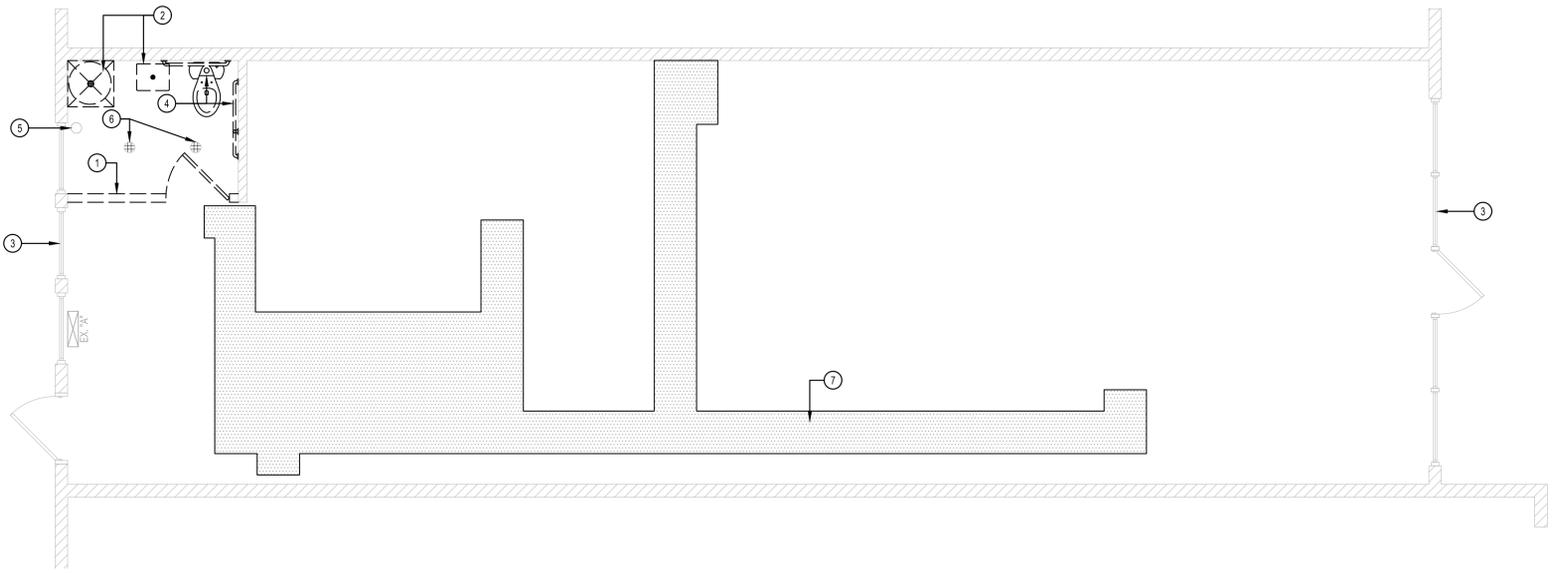
SHEET 1 OF 9

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.

- GENERAL DEMOLITION NOTES**
- COORDINATE ALL DEMOLITION WITH PJI CONSTRUCTION PROJECT MANAGER. ALL DEMOLITION WORK TO COMPLY WITH CONSTRUCTION PROCEDURE AND REGULATIONS AS SET FORTH BY LOCATION IN WHICH WORK IS BEING DONE.
 - VERIFY ALL DEMOLITION DIMENSIONS PRIOR TO DEMOLITION AND COORDINATE VERIFIED DIMENSIONS WITH NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED INCLUDING THE NEED TO RELOCATE ITEMS SUCH AS LIGHT SWITCHES, FIRE ALARMS, EXIT LIGHTS, OUTLETS, ETC. NOT SHOWN ON DRAWINGS. DISCREPANCIES SHALL BE RESOLVED PRIOR TO BEGINNING DEMOLITION WORK.
 - THE CONTRACTOR SHALL REFER TO AND COORDINATE WITH THE MEP DRAWINGS FOR RELATED DEMOLITION WORK.
 - THE PURPOSE OF THESE DEMOLITION PLANS, AS MADE PART OF THE CONTRACT DOCUMENTS, IS TO GIVE THE GENERAL CONTRACTOR A GENERAL IDEA AS TO THE SCOPE OF ARCHITECTURAL DEMOLITION WORK REQUIRED. THE CONTRACTORS SHALL VISIT THE FACILITY, THOROUGHLY EVALUATE THE EXISTING FACILITY AGAINST THE DRAWINGS AND ACTUAL SITE CONDITIONS.
 - REVIEW ALL CONTRACT DOCUMENTS AND ARRIVE AT THE SCOPE OF DEMOLITION WORK REQUIRED TO ACHIEVE THE INTENDED RESULTS AND FINISHED PRODUCT. ALL DEMOLITION WORK SHALL BE INCLUDED IN THE BASE SCOPE OF WORK.
 - NOTIFY THE APPROPRIATE UTILITY LOCATION SERVICE PRIOR TO ANY SITE EXCAVATION OR TRENCHING.
 - THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL MATERIAL AND ITEMS TO BE REMOVED. ITEMS IDENTIFIED BY THE OWNER TO BE SALVAGED AND TURNED OVER TO THE OWNER ARE TO BE REMOVED BY THE GENERAL CONTRACTOR AND DELIVERED TO A MUTUALLY AGREED UPON LOCATION ON THE JOB SITE.
 - REMOVE ITEMS IN SUCH A WAY AS TO NEITHER DAMAGE ADJACENT MATERIALS NOR COMPROMISE THE STRUCTURAL INTEGRITY OF EXISTING BUILDING. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF EXISTING CONSTRUCTION AS REQUIRED TO PERFORM THE PRESCRIBED WORK. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN ENGINEER, AT THE CONTRACTOR'S EXPENSE.
 - ALL HOLES AND OPENINGS IN FLOOR SLABS AS A RESULT OF EXISTING MECHANICAL, PLUMBING, OR ELECTRICAL UTILITY REMOVAL ARE TO BE FILLED IN. ALL DEPRESSIONS ARE TO BE LEVELLED UNLESS INDICATED OTHERWISE.
 - ALL ABANDONED, NONESSENTIAL OR OTHERWISE NOT SPECIFICALLY SHOWN TO BE REUSED, MECHANICAL, PLUMBING, OR ELECTRICAL UTILITIES THAT ARE EXPOSED AFTER THE CEILING OR WALL REMOVAL ARE TO BE REMOVED AND CAPPED AT POINT OF ORIGIN. CONSULT ARCHITECT IF QUESTIONS ARISE AS TO WHETHER A SERVICE IS TO BE ABANDONED OR IS TO REMAIN. COORDINATE WITH FIELD CONDITIONS AND PROJECT AND FACILITY MANAGERS.
 - COVER RETURN AIR DUCTS AS NECESSARY BEFORE AND DURING CONSTRUCTION. UNITS WITH COVERED RETURN GRILLS ARE TO BE TURNED OFF.
 - THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING PORTIONS OF THE BUILDING TO REMAIN. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING PORTIONS OF THE BUILDING TO REMAIN, WHICH ARE CAUSED BY THE CONTRACTOR, OR CONTRACTORS
 - THE CONTRACTOR SHALL MAINTAIN ALL EXISTING FIRE EQUIPMENT, EMERGENCY LIGHTING, EXITING, SECURITY, AND ALARMS FOR THE ENTIRE SITE. ANY VARIATIONS OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER. ALL ISSUES REGARDING PUBLIC SAFETY, AND MUST TAKE ALL NECESSARY PRECAUTIONS PRESCRIBED BY ALL LAWS, ORDINANCES, CODES, REGULATIONS AND ALL AUTHORITIES HAVING JURISDICTION TO PREVENT INJURY TO ANY PERSONS ON, ABOUT, OR ADJACENT TO THE CONSTRUCTION SITE.
 - THE CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OR SUSPICION OF OR THE PRESENCE OF ANY HAZARDOUS MATERIALS TO THE OWNER PRIOR TO PROCEEDING WITH DEMOLITION WORK.
 - THE PURPOSE OF THE DEMOLITION DRAWINGS ARE STRICTLY LIMITED TO GENERALLY INDICATING AREAS AND/OR ITEMS TO BE REMOVED. THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCE AND EXACT EXTENT OF DEMOLITION NEEDED FOR NEW CONSTRUCTION.
 - ALL FURNISHINGS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION PROCEDURES.
 - WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC.
 - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGULAR REMOVAL OF ALL WASTE MATERIAL FROM THE PROJECT SITE. ALL AREAS ADJACENT TO THE DEMOLITION ARE SHALL BE KEPT CLEAN. ALL DEMOLITION AREAS SHALL BE CLEANED AND READY FOR NEW CONSTRUCTION AT THE END OF THE DEMOLITION.
 - DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE. ALL ITEMS AND MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF AS SPECIFIED. ON SITE BURNING IS PROHIBITED.



2 SLAB REPLACEMENT DETAIL
1" = 1'-0"



1 SLAB & DEMOLITION PLAN
1/4" = 1'-0"

DOOR SCHEDULE

MARK	DOOR				FINISH	FRAME		HARDWARE		NOTES
	TYPE	WIDTH	HEIGHT	THICKNESS		TYPE	FINISH	SET		
101E	A	3'-0"	7'-0"	--	EXISTING	EXISTING	EXISTING	EXISTING	1, 4	
102E	B	3'-0"	7'-0"	--	P-1	EXISTING	P-1	EXISTING	1, 2, 3	
103	C	3'-0"	7'-0"	1 3/4"	P-1	H.M.	P-1	2	2, 3	
104	C	3'-0"	7'-0"	1 3/4"	P-1	H.M.	P-1	4	2, 3	

- NOTES:
- EXISTING DOOR TO REMAIN.
 - PAINT DOOR, REFER TO INTERIOR ELEVATIONS.
 - PAINT FRAME, REFER TO INTERIOR ELEVATIONS.
 - PROVIDE LETTERING ON DOOR GLASS ABOVE HANDLE READING "DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS".
 - 1" TAMPED INSULATED GLASS TO MATCH EXISTING & DOOR FRAME & FINISH TO MATCH EXISTING.
 - ELABSON (GCP) OR EQUAL IN GYP. HD. FRAME W/ ACRYLIC VIEW PANEL, STAINLESS STEEL FINISH & ALL HARDWARE IS PROVIDED BY MANUFACTURER.
 - HOLLOW METAL FRAME ONLY.

DOOR SPECIFICATION

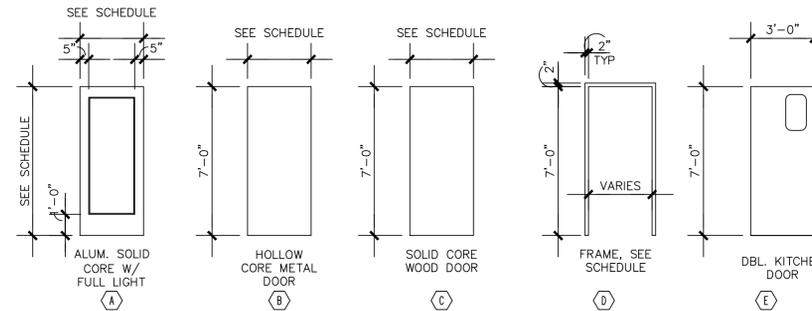
TYPE	DESCRIPTION	SPECIFICATION	FINISH
A	ALUMINUM SOLID CORE W/ FULL LIGHT	EXISTING ALUMINUM STOREFRONT	EXISTING
B	HOLLOW CORE METAL DOOR	WELDED HOLLOW METAL FRAME & INSULATED HOLLOW METAL DOOR	P-1
C	SOLID CORE WOOD DOOR	CPD-PC - PREMIUM DOOR, HARDWOOD EDGES; FLUSH PANEL; BONDED PARTICLE CORE	SEE INTERIOR ELEVATIONS

DOOR HARDWARE SCHEDULE

SET NO. 1	EXTERIOR - FRONT	SET NO. 3	EXTERIOR - DRIVER'S DOOR
3 BUTT HINGES	EXISTING	3 BUTT HINGES	STANLEY FBB179 4 1/2" x 4 1/2" x NRP
CLOSER	EXISTING	CLOSER	CORBIN RUSSWIN DC2210
THRESHOLD	EXISTING	THRESHOLD	NATIONAL GUARD PRODUCTS 424 - 36" x 1/2" x 4"
WEATHER STRIPS	EXISTING	WEATHER STRIPS	NATIONAL GUARD PRODUCTS 134N5 - 3070
DOOR SWEEP	EXISTING	DOOR SWEEP	NATIONAL GUARD PRODUCTS 198N - 36
DRIP CAP	EXISTING	DRIP CAP	NATIONAL GUARD PRODUCTS 16AD - 40
LOCKSET	EXISTING	LOCKSET	INTERIOR LEVER LATCH W/ LEVER ACTIVATED DEADBOLT
LATCH GUARD	EXISTING	LATCH GUARD	
SET NO. 2	RESTROOM	ALARM	
3 STANDARD HINGES	MCKINNY, MPB79 4-1/2"x4-1/2" US10B		
SURFACE CLOSER	DORMA 38616 AF86P FC 690		
DOOR HANDLE	FALCON B101S GRADE 2 LEVER PRIVACY SET		
DEADBOLT	--		
KICK PLATE	ROCKWOOD #K1050 12"x34"		
WALL DOOR STOP	ROCKWOOD #477 US26D		
DOOR SILENCER	ROCKWOOD #608 SILENCER		
		SET NO. 4	OFFICE
		3 STANDARD HINGES	MCKINNY, MPB79 4-1/2"x4-1/2" US10B
		SURFACE CLOSER	DORMA 38616 AF86P FC 690
		DOOR HANDLE	FALCON B101S GRADE 2 LEVER SET
		KICK PLATE	ROCKWOOD #K1050 12"x34"
		WALL DOOR STOP	ROCKWOOD #477 US26D
		DOOR SILENCER	ROCKWOOD #608 SILENCER

- NOTES:
- DOOR HARDWARE SCHEDULE FOR REFERENCE ONLY. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
 - ADJUST OPENING AND CLOSING FORCE FOR ALL CLOSERS TO MEET ADA REQUIREMENTS.
 - DOORS SHALL MEET THE ADA REQUIREMENTS FOR THRESHOLDS AND DOOR HARDWARE.
 - STANDARD FINISH FOR ALL HARDWARE TO BE 028 NICK CHROME.
 - EXTERIOR DOOR SHALL BE MASTER KEYS.
 - PROVIDE EXTRA HEAVY DUTY EXIT DEVICE & KICK PLATE AT DRIVERS EXIT DOOR.

DOOR TYPES



A SIGN CLEARLY STATING THAT SMOKING IS PROHIBITED SHALL BE CONSPICUOUSLY POSTED BY THE BUILDING OWNER, AGENT, OPERATOR, PERSON IN CHARGE OR PROPRIETOR AT EACH ENTRANCE OR IN A POSITION CLEARLY VISIBLE UPON ENTRY INTO THE BUILDING. ACCEPTABLE SIGNS SHALL DISPLAY EITHER "NO SMOKING" OR THE INTERNATIONAL "NO SMOKING SYMBOL" (CONSISTING OF A PICTORIAL REPRESENTATION OF A BURNING CIGARETTE ENCLOSED IN A RED CIRCLE WITH A RED BAR ACROSS IT).

ALL BUSINESS TRANSACTION AREAS MUST MEET THE REQUIREMENTS OF THE ACCESSIBILITY CODE WITH A PORTION OF EACH TRANSACTION COUNTER CONSTRUCTED WITH A SECTION OF THE COUNTER HAVING A MAXIMUM HEIGHT OF 34" FOR A MINIMUM LENGTH OF 36". IT IS RECOMMENDED THAT THIS ISSUE IS DISCUSSED WITH THE BUILDING INSPECTOR PRIOR TO CONSTRUCTION AND/OR INSTALLATION.

INSULATION NOTE:
CONTRACTOR SHALL INSULATE ALL FURRED OUT WALLS THAT ARE AGAINST INTERIOR AND EXTERIOR MASONRY / CONCRETE WALLS. CONTRACTOR SHALL ALSO INSULATE ALL RESTROOM WALLS AND CEILINGS.

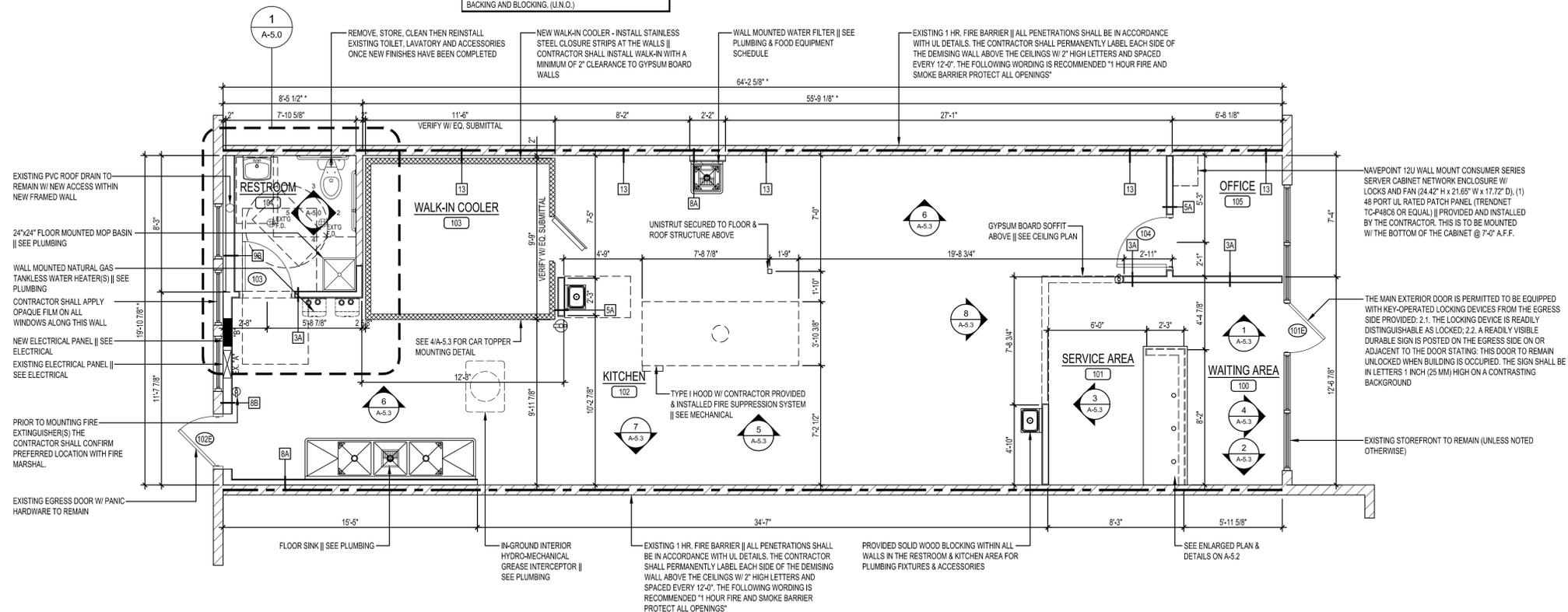
DIMENSIONAL NOTE:
- EXISTING DIMENSION TO BE FIELD VERIFIED - ALL DIMENSIONS PULLED FROM EXISTING BUILDING WALLS ARE FROM THE FACE EXISTING MATERIAL.

TACTILE SIGNAGE:
PROVIDE EXIT TACTILE SIGNAGE IN ACCORDANCE WITH NFPA-101:7.10.1.3, INTERNATIONAL FIRE CODE AND ANSI A117.1, 2009 EDITION.

ADDITIONAL STRUCTURAL SUPPORT:
THE CONTRACTOR SHALL INCLUDE STRUCTURAL MODIFICATIONS TO THE EXISTING ROOF SYSTEM TO INCLUDE STRUCTURAL ENGINEERING, IF REQUIRED FOR THE FOLLOWING ITEMS: SEE A-7.0 FOR GENERAL DETAILS.
- ADDITIONAL HVAC UNIT(S)
- ROOF MOUNTED HOOD FAN(S)
- SUPPORT OF THE EXHAUST HOOD
- ROOF MOUNTED CONDENSING UNIT FOR THE WALK-IN COOLER

WALL BLOCKING/ BACKING NOTE:
ALL WALLS WITH SHELVING IN THE KITCHEN AREA AS WELL AS ANY WALL WITH A WALL MOUNTED T.V. AND ANY RESTROOM WALL WITH A MOUNTED FIXTURE SHALL HAVE BACKING AND BLOCKING. (U.N.O.)

CONTRACTOR SHALL LABEL ALL EXTERIOR DOORS AND ELECTRICAL DISCONNECT WITH THE SUITE NUMBER IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.



1 DIMENSIONED FLOOR PLAN
SCALE: 1/4" = 1'-0"



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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNX CREEK CIRCLE
FREDERICK, COLORADO 80516



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:
FLOOR PLAN & SCHEDULE

PROJECT NUMBER 24-137

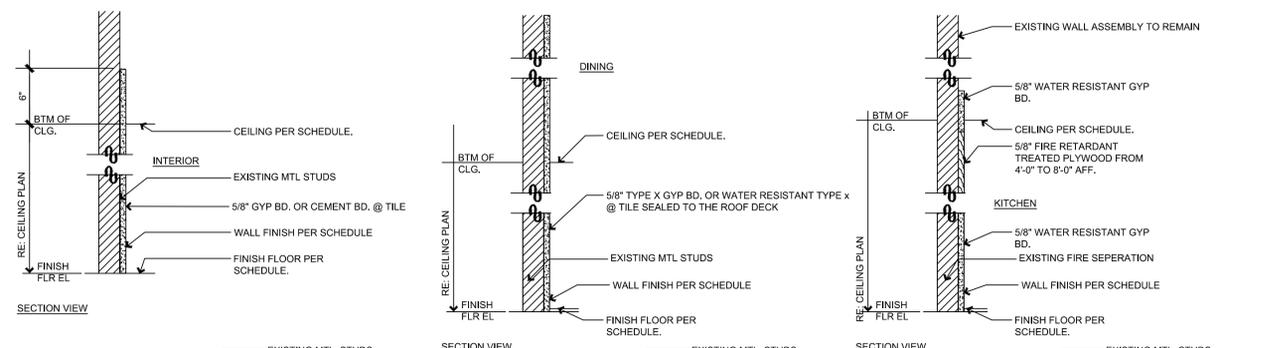
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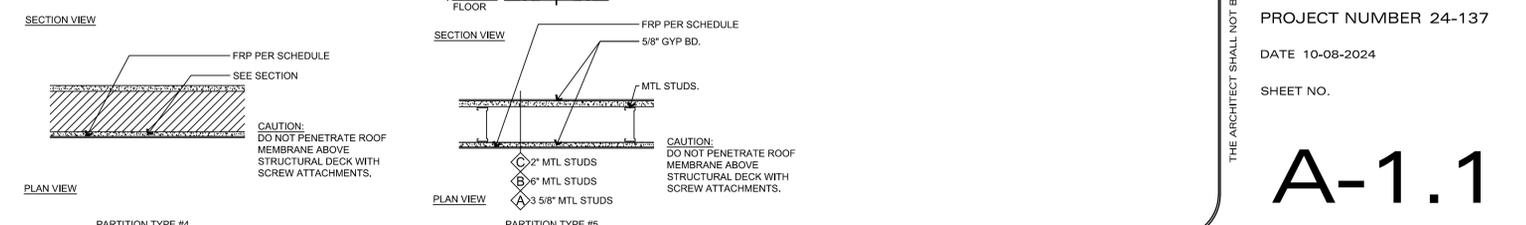
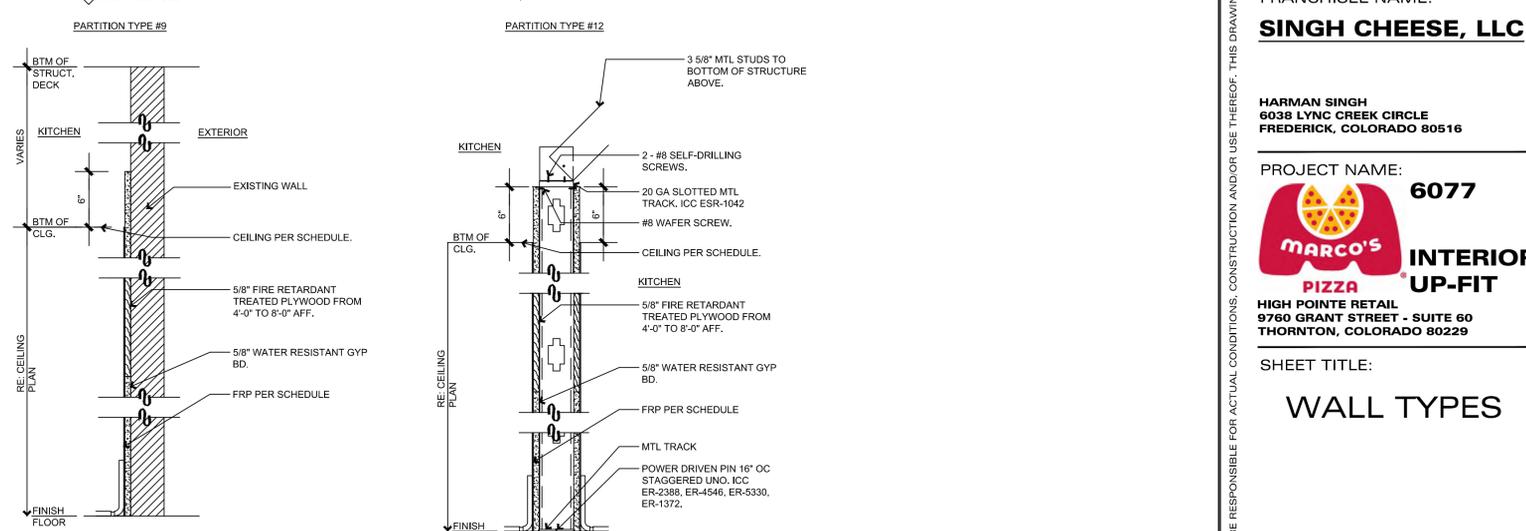
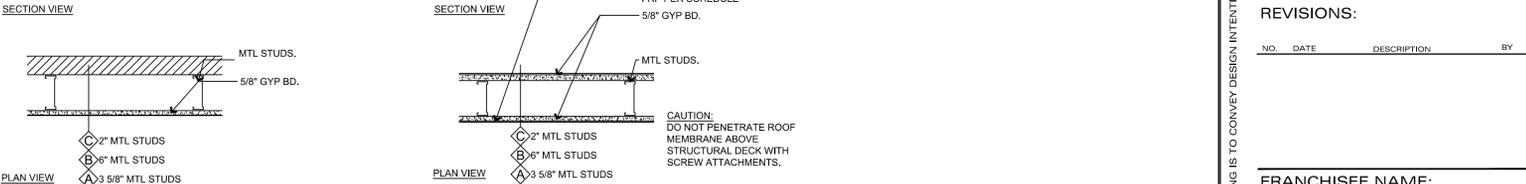
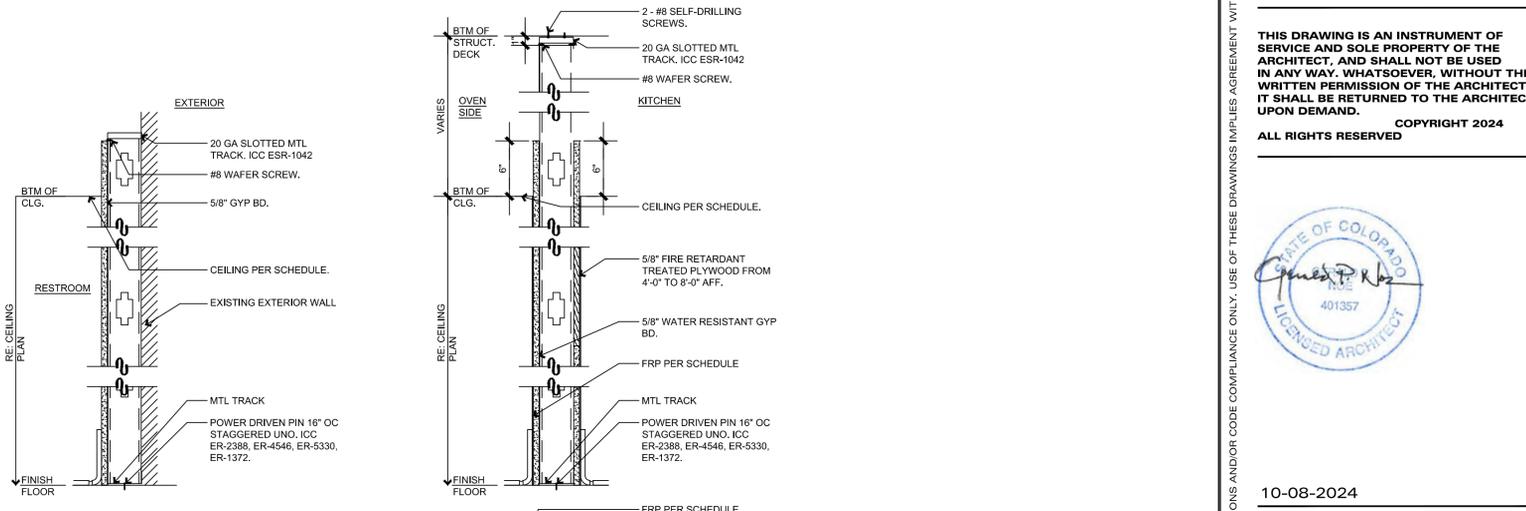
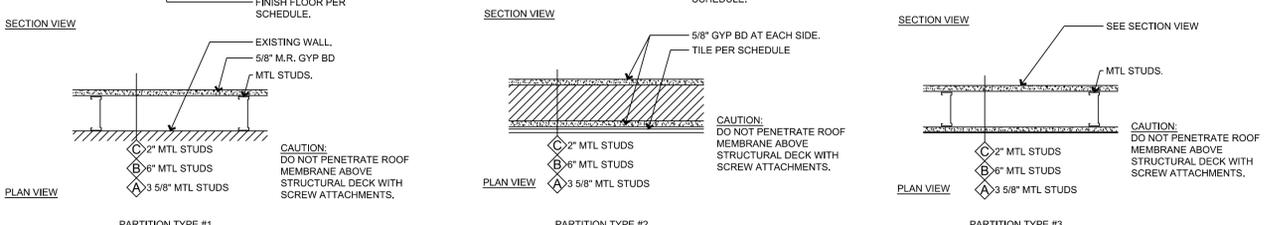
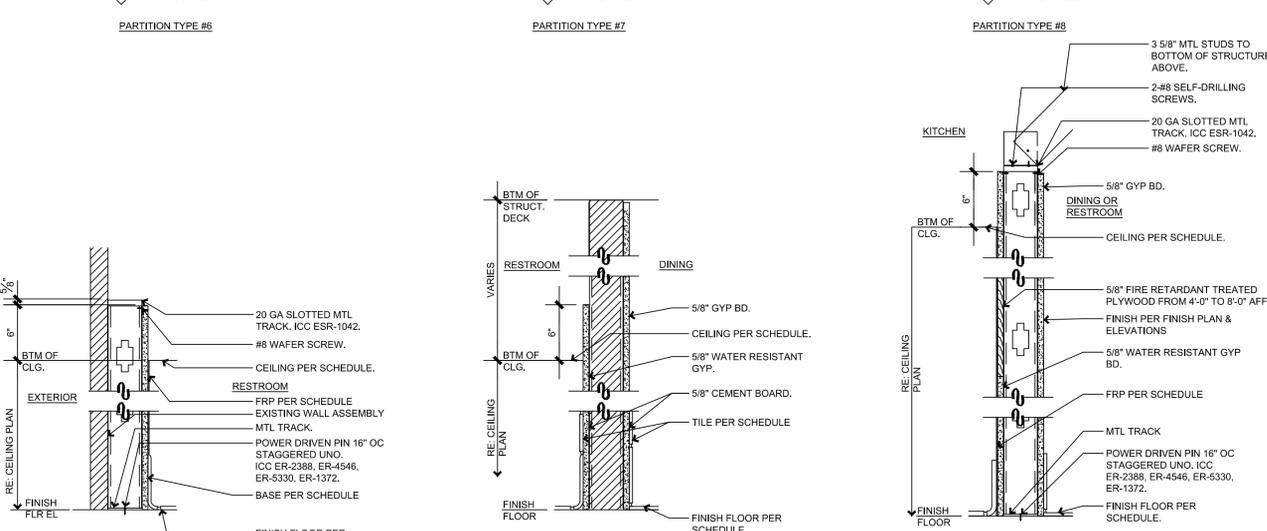
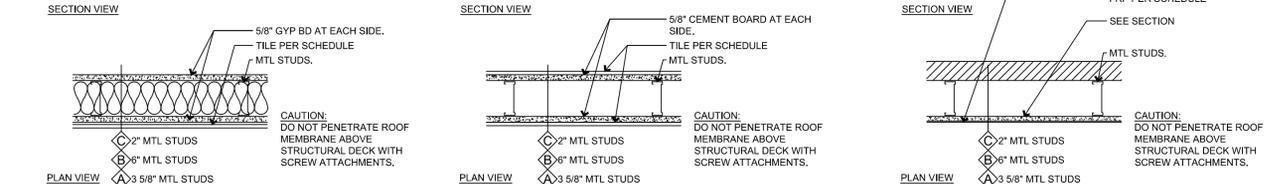
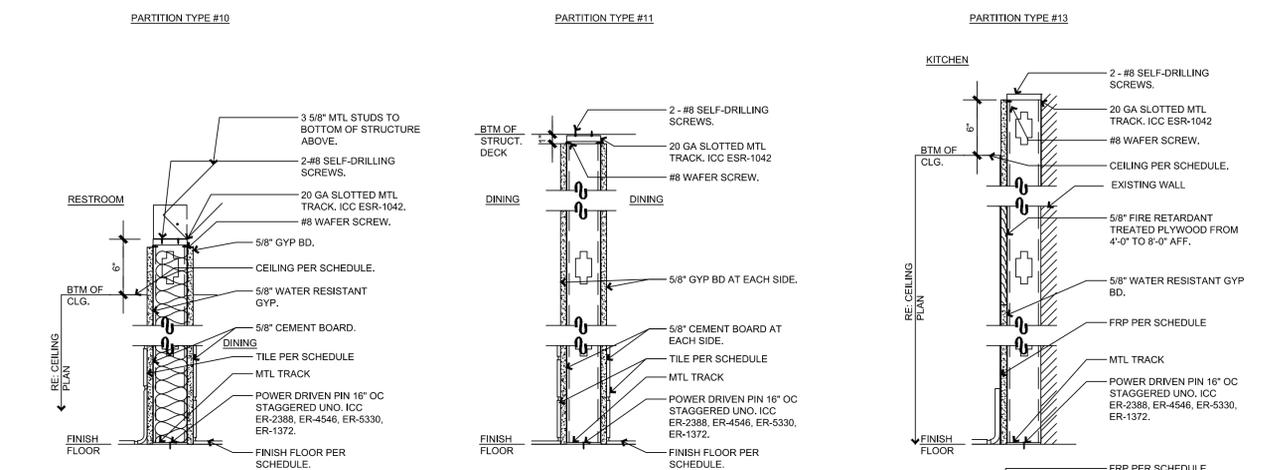
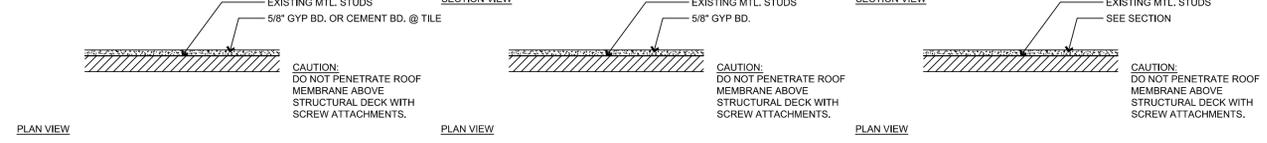
A-1.0

SHEET 2 OF 12

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GENERAL NOTES:
 1. ALL WALL TYPES ARE NOT REQUIRED FOR EVERY PROJECT.
 2. SEE A-1.0 FOR WALL TYPE DESIGNATIONS AND REQUIRED LOCATIONS.
 3. ALL STUDS AND TRACKS ARE TO BE A MINIMUM OF 33 MILS.
 4. SEE A-3.0 FOR WALLS THAT WILL ALSO REQUIRED ADDITIONAL WATERPROOFING IN DAMP / WET AREAS



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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
SINGH CHEESE, LLC

HARMAN SINGH
 6038 LYNC CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME: **6077**

HIGH POINTE RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:
WALL TYPES

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

A-1.1

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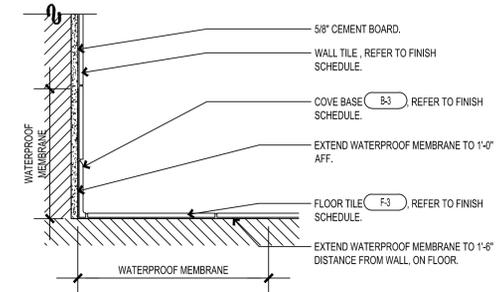
FINISH MATERIAL LEGEND (BASED ON JULY 9, 2021 - INTERIM STANDARDS)						
TAG	DESCRIPTION	MANUFACTURER	ITEM #	NAME/COLOR	SIZE TYPE	NOTES
F-1	FLOOR TILE	DALTILE	SD14836S1PR	SADDLEBROOK FARMHOUSE	6'X6"	1, 5
F-2	FLOOR TILE	DALTILE	0T03661P	ASHEN GRAY	6'X6"	2, 6
F-3	NOT USED					
B-1	FLOOR TILE	DALTILE	SD14836S1PR	SADDLEBROOK FARMHOUSE	6'X6"	1, 16
B-2	COVE TILE BASE	DALTILE		ASHEN GRAY	5'X6"	2, 13
B-3	NOT USED					
T-1	WALL TILE	DALTILE	VV10361P	VITRUVIAN WHITE GLOSSY	3'X6"	4
T-2	NOT USED					
TR-1	TRIM TILE	SCHLUTER	Q 100E	QUADEC - SS	3/8"	11
TR-2	TRIM TILE	SCHLUTER	Q 80E	QUADEC - SS	5/16"	12
TR-3	COVE BASE TRIM	SCHLUTER	AHK 1S 100 AE	DILEX-AHK	3/8"	16
P-1	PAINT	SHERWIN WILLIAMS	SW 9165	GOSSAMER VEIL	SATIN / EGGSHELL	-
P-2	PAINT	BENJAMIN MOORE	PM-11	ESSEX GREEN	SATIN / EGGSHELL	-
CT-1	CEILING TILE	--	--	USG FROST - SLB 440 - PROFILE A	2'X2'	7
CT-2	CEILING TILE	--	--	VINYL FACED GYP BOARD PANELS	2'X4'	9
SF-1	SURFACE	MSI QUARTZ	--	CALCUTTA LEON	2 CM SLAB	18
SF-1 (ALT)	SURFACE	WILSON ART	Q4008	QUARTZ, HAIDA	2 CM SLAB	--
SF-2	WOOD WALL TREATMENT	MDF BOARD	--	PRIMED	1' x 2' x 8'-0"	19
SF-3	WOOD WALL TREATMENT	MDF BOARD	--	PRIMED	1' x 3' x 8'-0"	20
SF-4	WOOD CHAIR RAIL	MDF BOARD	--	PRIMED	1' x 3' x 8'-0"	21
SF-5	NOT USED					
SF-5 (ALT)	NOT USED					
SF-6	LAMINATE	WILSONART LAMINATE	BLACK 1595	FINISH: 60 MATTE	4'x8'	--
SF-7	FRP	MARLITE	P-199	FIBRE REINFORCED PLASTIC, BRITE WHITE	PEBBLE	

- FINISH SCHEDULE KEY NOTES:
- GROUT FOR FLOOR TILE TO BE MAPEI ULTRACOLOR PLUS CACOA #79 (3/16" JOINT)
 - GROUT FOR FLOOR TILE TO BE MAPEI ULTRACOLOR PLUS CHARCOAL #47 (3/16" JOINT)
 - GROUT FOR WALL TILE TO BE MAPEI KERACOLOR IRON #107 (1/4" JOINT)
 - ORIENTATION TO BE HORIZONTAL TO THE FRONT COUNTER WITH 1/3 STAGGER
 - ORIENTATION TO BE STACKED
 - GRID TO BE PROFILE "A" AND TILE TO HAVE SLB (SHADOWLINE BEVEL) PROFILE.
 - GRID TO BE 5/16" COMMERCIAL QUALITY
 - TRIM FOR USE BETWEEN DIFFERENT ADJACENT TILES AND TILE TO GYP. BD. TRANSITIONS
 - TRIM FOR USE AT OUTSIDE CORNERS
 - INSIDE AND OUTSIDE CORNERS TO BE USED.
 - BAR TOPS TO HAVE 1/4" RADIUS TOP & BOTTOM WITH 1/4" RADIUS CORNERS. THE FINISH IS TO BE NATURAL WITH PREMIUM POLYURETHANE. ALL LEG SUPPORTS SHALL BE 2" DIA. WITH ESCUTCHEON PLATES @ TOP AND BOTTOM AND HAVE BLACK CRINKLED FINISH. THE BAR TOPS AND SUPPORTS SHALL BE PROVIDED BY THE TABLE VENDOR.
 - TR-3 AND ALL REQUIRED TRIM ACCESSORIES FOR FLOORING INSTALLATION
 - CONTACT RAFAEL BERNAL @ RAFAEL.B@MSISURFACES.COM OR 248.930.3459
 - 1x3 MDF OR SIMILAR TO BE MOUNTED TO THE WALL @ 13 1/2" O.C. SPACING VIA CONSTRUCTION ADHESIVE AND CONCEALED HARDWARE || ANY NAIL / SCREW HOLES ARE TO BE FILLED, EDGES TO BE CAULKED || TRIM & WALL TO BE PAINTED P-1 || IT IS RECOMMENDED TO SAND THE WALLS, PRIME AND THEN INSTALL THE TRIM
 - 1x3 MDF OR SIMILAR TO BE MOUNTED TO THE WALL VIA CONSTRUCTION ADHESIVE AND CONCEALED HARDWARE || ANY NAIL / SCREW HOLES ARE TO BE FILLED, EDGES TO BE CAULKED || TRIM & WALL TO BE PAINTED P-1 || IT IS RECOMMENDED TO SAND THE WALLS, PRIME AND THEN INSTALL THE TRIM

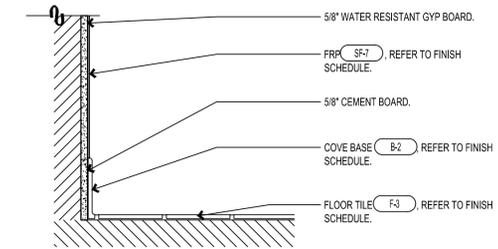
- PLAN NOTES
- REFERENCE MATERIAL RESOURCES AND SCHEDULE SHEET FOR FINISH SELECTIONS AND ADDITIONAL INFORMATION.
 - PROVIDE THRESHOLDS, TRANSITION STRIPS, EDGINGS, ETC. AT CHANGES IN FLOORING MATERIAL. USE ALUMINUM PROFILE BY SCHLUTER SYSTEMS AS DICTATED BY FIELD CONDITION.
 - PRIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL NOT BE LESS THAN CLASS N GROUPS A.
 - CONTRACTOR TO GET OWNER AND ARCHITECT APPROVAL ON MATERIAL MATCH PRIOR TO PURCHASE AND INSTALLATION. PROVIDE SAMPLES.
 - TILE EXPANSION JOINTS PER TCNA E1171. ALIGN WITH SLAB CONTROL SILICONE SEALANT AND JOINT FILLER.
 - INTERIOR FLOOR FINISHES SHALL BE DESIGNED WITH A CRACK CONTROL JOINT ALONG THE LENGTH OF EXISTING POUR STRIPS AT THE COLD JOINT WHERE THE POUR STRIPS CONNECT TO THE MAIN BUILDING SLAB.
 - WALK-IN COOLER PROVIDED WITHOUT A FLOOR. REFERENCE WALK-IN COOLER SHOP DRAWINGS.
 - FIELD VERIFY DIMENSIONS OF WALLS TO RECEIVE WALL COVERINGS, MURALS, OR WAINSCOT PRIOR TO INSTALLATION.
 - INTERIOR FINISH CLASSIFICATIONS:
FOR SPRINKLERED BUILDINGS:
INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS - CLASS B
CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS - CLASS C
ROOMS AND ENCLOSED SPACES - CLASS C
FOR NON-SPRINKLERED BUILDINGS:
INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS - CLASS A
CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS - CLASS B
ROOMS AND ENCLOSED SPACES - CLASS C
- CLASS A: = FLAME SPREAD INDEX 0-25; SMOKEDEVELOPED INDEX 0-450
CLASS B: = FLAME SPREAD INDEX 26-75; SMOKEDEVELOPED INDEX 0-450
CLASS C: = FLAME SPREAD INDEX 76-200; SMOKEDEVELOPED INDEX 0-450

ROOM FINISH SCHEDULE							
	ROOM	FLOOR	BASE	WALLS	CEILING		NOTES
					MATERIAL	HEIGHT	
100	WAITING AREA	F-1	B-1	T-1, SF-2, SF-3, SF-4, P-1, P-2	CT-1	10'-6"	2
101	SERVICE AREA	F-1	B-1	T-1, P-1, SF-7	CT-1	10'-6"	2
102	KITCHEN	F-2	B-2	SF-7	CT-2	10'-0"	
103	WALK-IN COOLER	F-2	B-2	--	--	9'-0"	
104	RESTROOM	F-2	B-2	SF-7	CT-2	8'-0"	
105	OFFICE	F-2	B-2	SF-7	CT-2	10'-6"	

- ROOM FINISH SCHEDULE KEY NOTES:
- SEE INTERIOR ELEVATIONS FOR THE HEIGHTS TO TRANSITION THE WALL COLORS AND MATERIALS.



3 TILE TO FLOOR @ WET AREAS
SCALE: 1 1/2" = 1'-0"

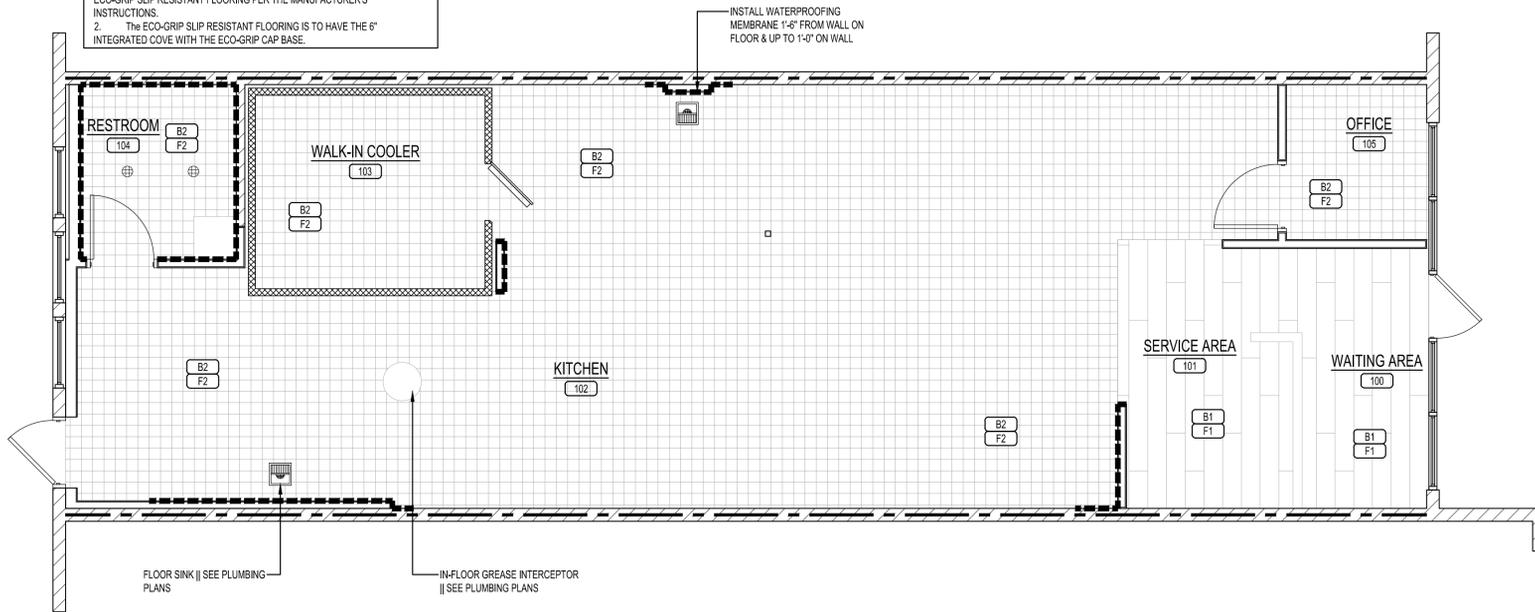


2 KITCHEN FLOOR TO WALL TILE
SCALE: 1 1/2" = 1'-0"

ALTERNATE KITCHEN FLOOR FINISH SPECIFICATION:

AS AN ALTERNATE TO F-2 THE CONTRACTOR SHALL PROVIDE THE OWNER WITH PRICING FOR ECO-GRIP "SLIP RESISTANT FLOORING" || COLOR TO BE CHARCOAL.

- THE CONTRACTOR SHALL PREP THE ENTIRE FLOOR TO RECEIVE THE ECO-GRIP SLIP RESISTANT FLOORING PER THE MANUFACTURER'S INSTRUCTIONS.
- THE ECO-GRIP SLIP RESISTANT FLOORING IS TO HAVE THE 6" INTEGRATED COVE WITH THE ECO-GRIP CAP BASE.



1 FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"



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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:

MARCO'S PIZZA 6077



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

**FLOOR FINISH
PLAN &
SCHEDULE**

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

A-3.0

SHEET 5 OF 12

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.



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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

FINISH WALL & ARTWORK PLAN

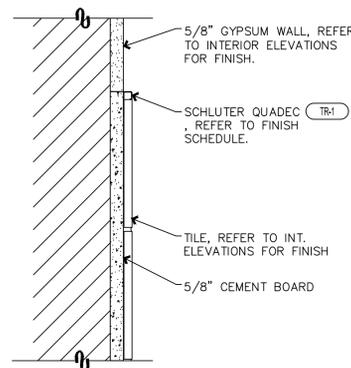
PROJECT NUMBER 24-137

DATE 10-08-2024

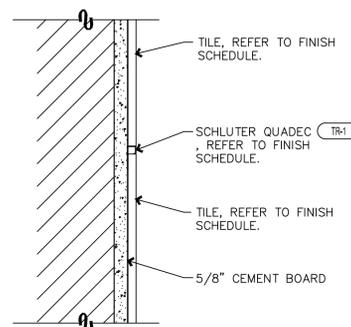
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A-4.0

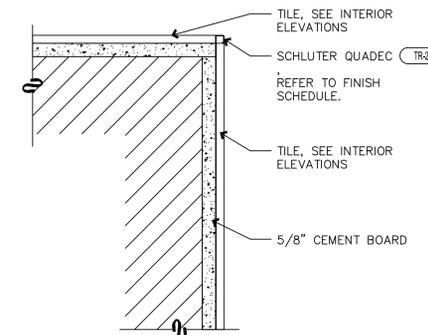
SHEET 6 OF 12



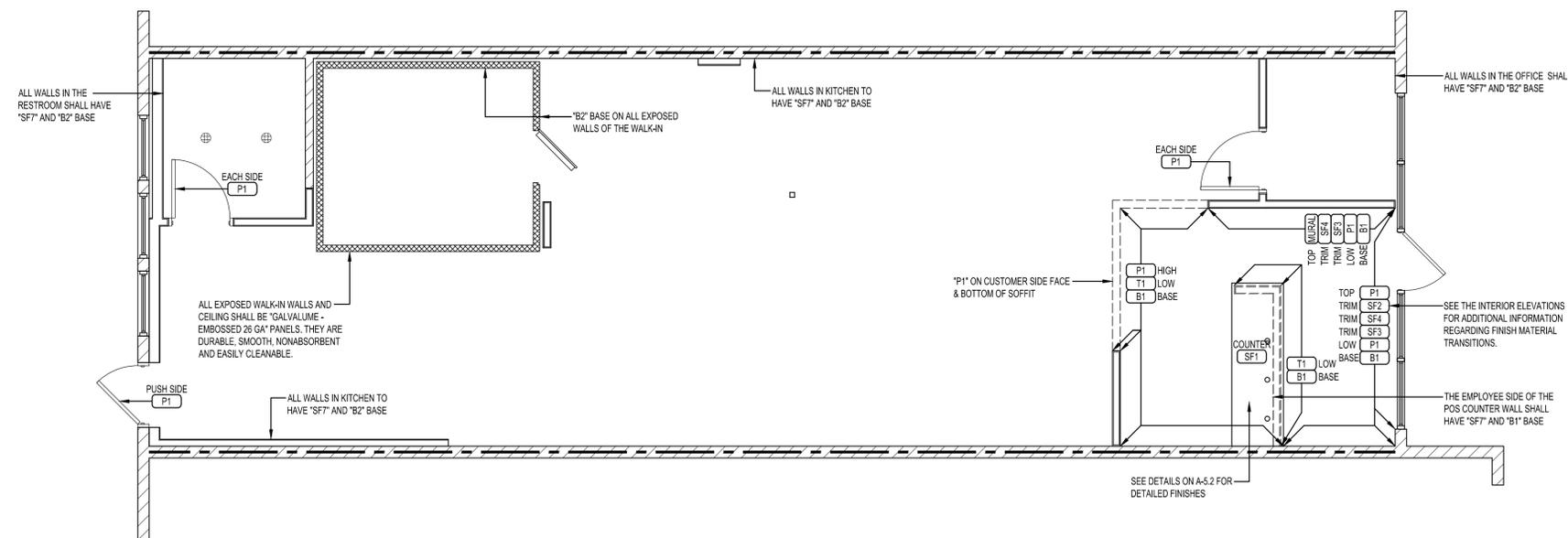
2 WALL TILE SECTION
SCALE: 3" = 1'-0"



3 WALL TILE TRANSITION
SCALE: 3" = 1'-0"



4 WALL TILE OUTSIDE CORNER
SCALE: 3" = 1'-0"



1 WALL FINISH PLAN
SCALE: 1/4" = 1'-0"

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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

**RESTROOM
PLAN &
ELEVATIONS**

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

A-5.0

SHEET 7 OF 12

RESTROOM NOTES

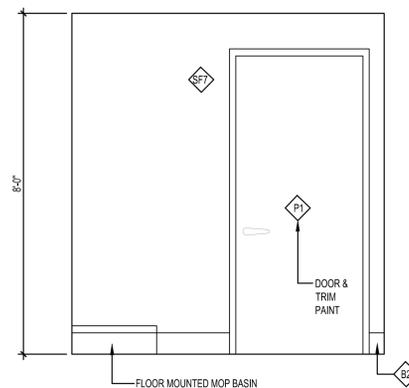
- COMPLY WITH THE REQUIREMENTS OF IBC AND ANSI A117.1.
- WATER CLOSETS AND URINAL FLUSH VALVE CONTROLS AND FAUCET AND OPERATING MECHANISM CONTROL SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING PINCHING OR TWISTING OF THE WRIST AND SHALL BE MOUNTED NO MORE THAN 44" AFF.
- THE FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS AND FAUCET AND OPERATING MECHANISM CONTROLS SHALL BE NO GREATER THAN 5 LBS.
- SELF CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- WHERE TOWEL, SANITARY NAPKINS WASTE RECEPTACLES AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS INCLUDING COIN SLOTS WITHIN 40" FROM THE FINISHED FLOOR.
- LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR AND WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER FRONT UP EXTENDING A MINIMUM OF 30" IN WIDTH AND 8" MINIMUM DEPTH AT THE TOP TOE CLEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MINIMUM OF 9" HIGH FROM THE FLOOR AND A MIN OF 17" DEEP FROM THE FRONT OF THE LAVATORY.

RESTROOM ACCESSORIES SCHEDULE

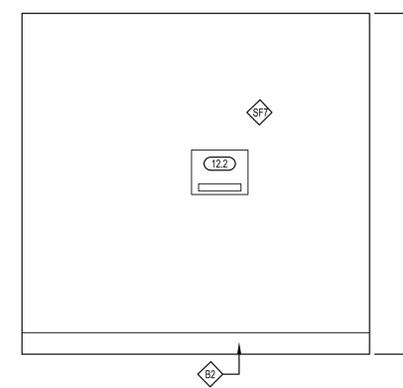
TAG:	DESCRIPTION	MFR:	MODEL
12.2	AUTOMATIC ROLL TOWEL DISPENSER	BOBRICK	B-72974
12.3	SOAP DISPENSER	BOBRICK	B-40
70	BABY CHANGING STATION	IMPACT PRODUCTS	1170
71	MIRROR	BOBRICK	B-165 1836
72	TOILET PAPER DISPENSER	BOBRICK	B-253
73	FEM. NAPKIN DISPOSAL	BOBRICK	B-27
74	TOILET	SEE PLUMBING	--
74.1	36" GRAB BAR	BOBRICK	B-5806X36
74.2	42" GRAB BAR	BOBRICK	B-5806X42
74.3	18" GRAB BAR	BOBRICK	B-8806X18
75	LAVATORY	SEE PLUMBING	--
75.1	FAUCET	SEE PLUMBING	--

GENERAL NOTE:

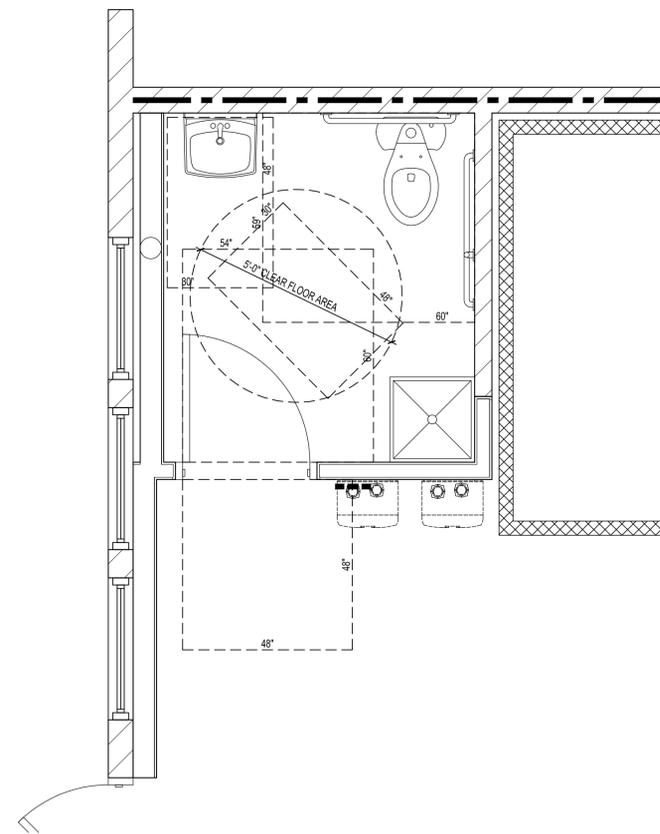
- PROVIDE DOUBLE 20 MSG GALV STEEL STUDS IN WALLS TO SUPPORT ALL WALL HUNG PLUMBING FIXTURES, TYPICAL.
- ALL TOILET ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH THE ADA HEIGHT & REACH REQUIREMENTS.



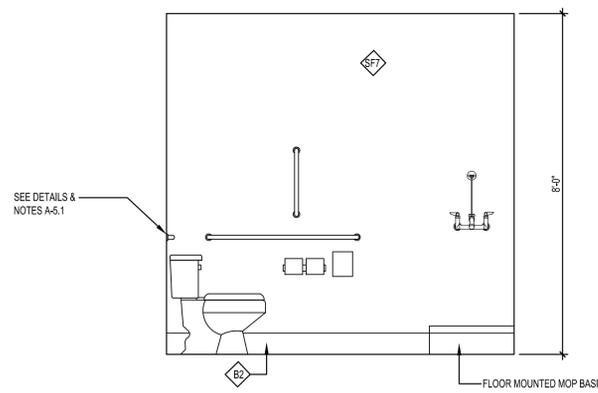
4 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



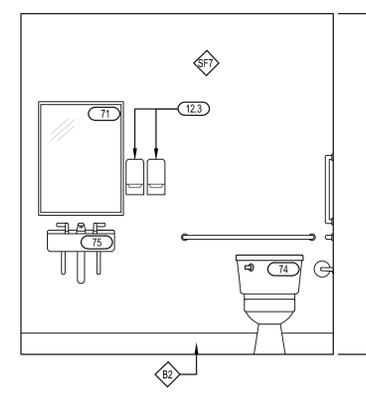
5 RR ELEVATION
SCALE: 1/2" = 1'-0"



1 ENLARGED RESTROOM PLAN
SCALE: 1/2" = 1'-0"



2 RR ELEVATION
SCALE: 1/2" = 1'-0"



3 RR ELEVATION
SCALE: 1/2" = 1'-0"



10-08-2024

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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:

6077



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

**RESTROOM
DETAILS**

PROJECT NUMBER 24-137

DATE 10-08-2024

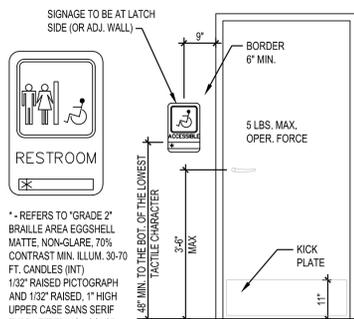
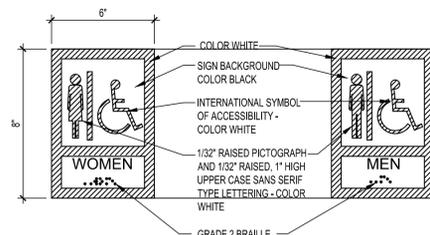
SHEET NO.

A-5.1

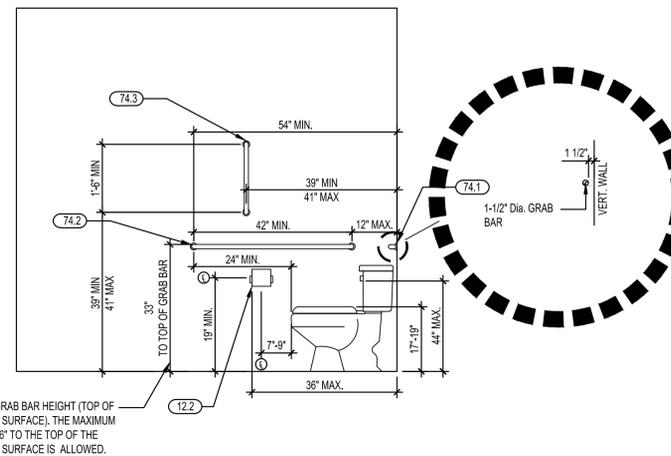
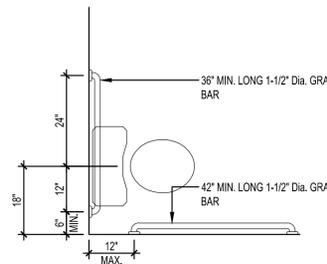
SHEET 8 OF 12

ADA SIGNAGE TYPE DETAILS AND NOTES

WALL SIGNAGE (TYP.)



1 RESTROOM SIGN & DOOR
SCALE: 1/2" = 1'-0"



NOTES:

- BENDING STRESS IN A GRAB BAR INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250 LB. POINT LOAD SHALL BE LESS THAN THE ALLOWABLE
- SHEAR STRESS INDUCED IN A GRAB BAR BY THE APPLICATION OF A 250 LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
- SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250 LB. POINT LOAD SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.
- TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250 LB. POINT LOAD, PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF A 250 LB. POINT LOAD, SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE
- GRAB BARS AND WALL OR OTHER SURFACE ADJACENT TO THEM SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8"
- GRAB BAR LENGTHS INDICATED SHALL NOT INCLUDE ANY MOUNTING CURVATURE, MINIMUM DIMENSIONS APPLY TO STRAIGHT LENGTH OF BAR.

ALL ADA SIGNS SHALL CONFORM WITH IBC ACCESSIBILITY GUIDELINES

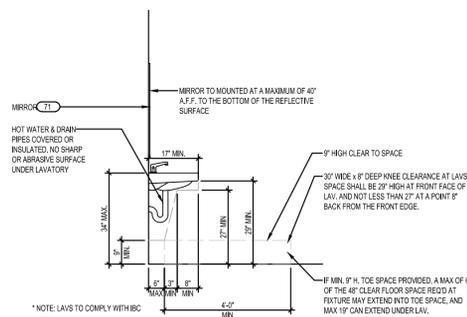
- LETTERS AND NUMBERS MUST BE RAISED 1/32" FROM SIGNAGE SURFACE.
- CHARACTER HEIGHT MUST BE AT LEAST 5/8" BUT NOT TO EXCEED 2". TYPE STYLE FOR LETTERS AND NUMBERS SHALL BE SANS SERIF OR SIMPLE SERIF.
- PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW PICTOGRAM DOOR MOUNTED ACCESSIBILITY SIGN.
- PLASTIC LAMINATE SECURED TO CENTER OF DOOR FACE CENTER LINE AT 48" A.F.F. TO THE LOWEST TACTILE CHARACTER.
- WOMEN'S SYMBOL 1/4" THICK 12" DIAMETER.
- MEN'S SYMBOL 1/4" THICK TRIANGLE 12" SIDES.
- COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM COLOR AND CONTRAS OF DOOR USE NEMA RATED SELF EXTINGUISHING ADHESIVE TO MOUNT.

DOOR MOUNTED ACCESSIBILITY SIGN

- PLASTIC LAMINATE SECURED TO CENTER OF DOOR FACE CENTER LINE AT 48" A.F.F. TO THE LOWEST TACTILE CHARACTER
- WOMEN'S SYMBOL 1/4" THICK 12" DIAMETER
- MEN'S SYMBOL 1/4" THICK TRIANGLE 12" SIDES
- COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM COLOR AND CONTRAS OF DOOR USE NEMA RATED SELF EXTINGUISHING ADHESIVE TO MOUNT

ADA MOUNTING HEIGH NOTES

- COMPLY WITH THE REQUIREMENTS OF IBC AND ANSI A117.1.
- IT IS THE INTENT OF THE DESIGN THAT ALL ITEMS SHOWN AT TYPICAL HEIGHTS BE ACCESSIBLE TO PERSONS WITH DISABILITIES.
- THE MOUNTING HEIGHTS CLEARANCES AND CONFIGURATIONS SHOWN ON THIS SHEET ARE TYPICAL AND SHALL APPLY TO ALL INSTANCES OF THE ITEM SHOWN. THE DIMENSIONS SHOWN ON THIS SHEET TAKE PRECEDENCE OVER TYPICAL DIMENSIONS SHOWN ON THE ELECTRICAL OR MECHANICAL DRAWINGS FOR THE MOUNTING OF ITEMS INSTALLED BY THE ELECTRICAL OR MECHANICAL TRADES.
- TYPICAL MOUNTING HEIGHTS FOR ITEMS NOT SHOWN ON THIS SHEET MAY BE ILLUSTRATED BY OTHER SHEETS. REFER TO "INDEX OF DRAWINGS" FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL VERIFY IN FIELD THAT EXISTING RESTROOMS FIXTURES AND ACCESSORIES TO REMAIN COMPLY WITH ADA MOUNTING HEIGHTS. IN CASE OF DISCREPANCIES GC SHALL RELOCATE FIXTURES AND PATCH IMPACTED AREAS TO MATCH ADJACENT FINISHES.
- FOR LOCATION OF ACCESSORIES REFER TO RESTROOM INTERIOR ELEVATIONS.
- FOR FIXTURES AND PLUMBING ACCESSORIES REFER TO PLUMBING SCHEDULE.



* NOTE: LAVS TO COMPLY WITH IBC
NOTES:
FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING PINCHING OR TWISTING OF THE WRIST.
FORCE REQUIRED TO OPERATE SHALL NOT EXCEED 5 LBF. LEVER OPERATED, PUSH-TYPE & ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE EXAMPLES. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS. PROVIDE INSULATED BOOT AT ALL BELOW SWIFTINGS.

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.



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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

POS DETAILS

PROJECT NUMBER 24-137

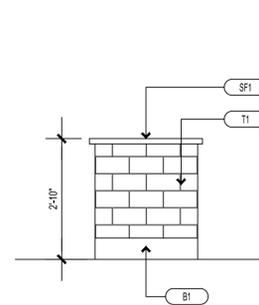
DATE 10-08-2024

SHEET NO.

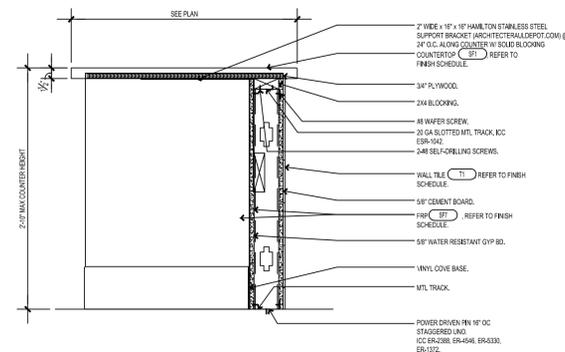
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SHEET 9 OF 12

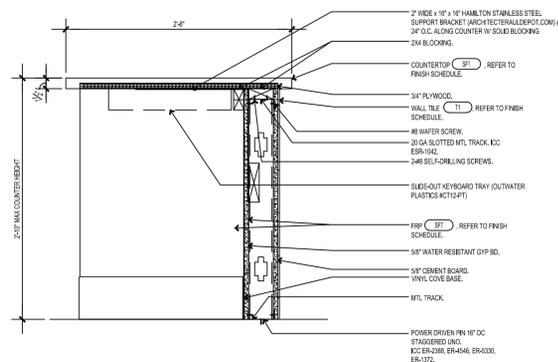
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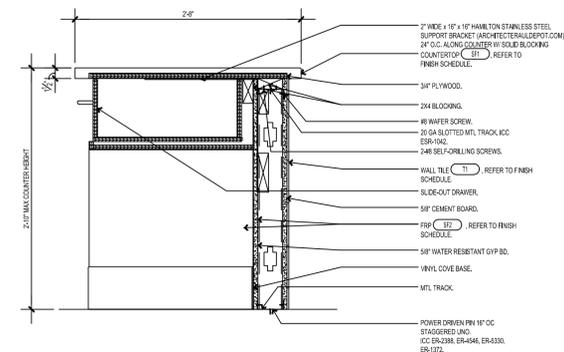
4 POS COUNTER ELEVATION (END)
SCALE: 1/2" = 1'-0"



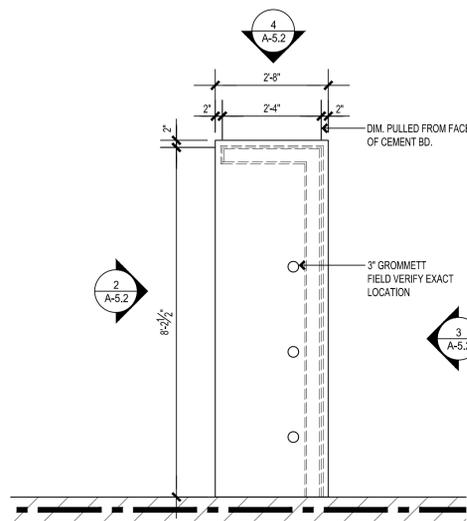
5 MILLWORK DETAIL (REGISTER COUNTER)
SCALE: 1" = 1'-0"



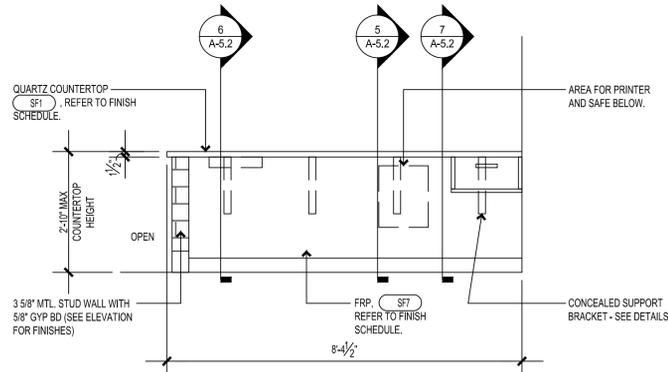
6 MILLWORK DETAIL (CASH DRAWER)
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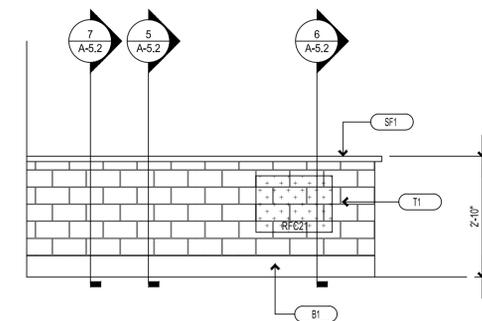
7 MILLWORK DETAIL (DRAWER)
SCALE: 1" = 1'-0"



1 POS COUNTER ENLARGED PLAN
SCALE: 1/2" = 1'-0"



2 POS COUNTER ELEVATION (EMPLOYEE SIDE)
SCALE: 1/2" = 1'-0"



3 POS COUNTER ELEVATION (CUSTOMER SIDE)
SCALE: 1/2" = 1'-0"



10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

INTERIOR ELEVATIONS

PROJECT NUMBER 24-137

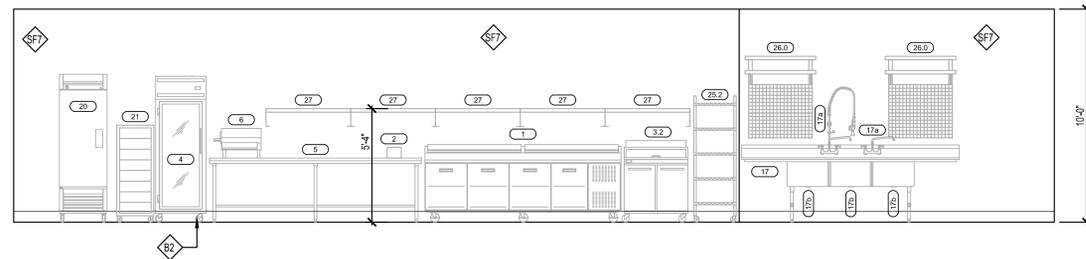
DATE 10-08-2024

SHEET NO.

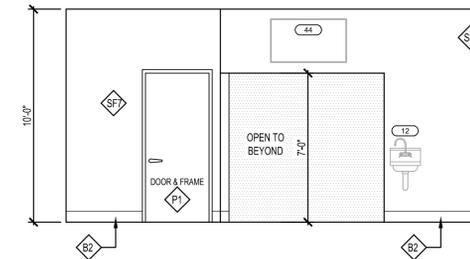
A-5.3

SHEET 10 OF 12

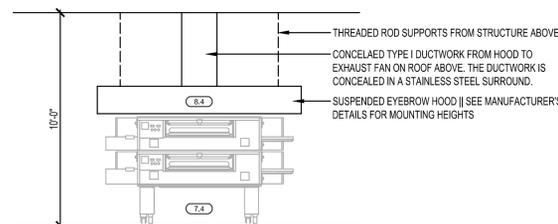
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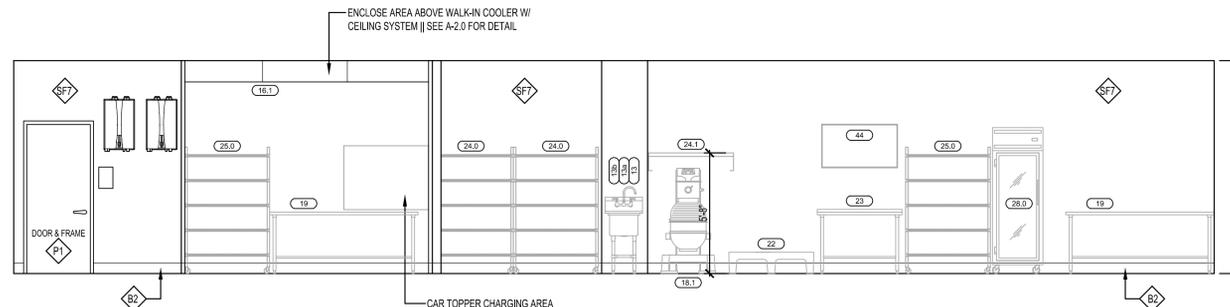
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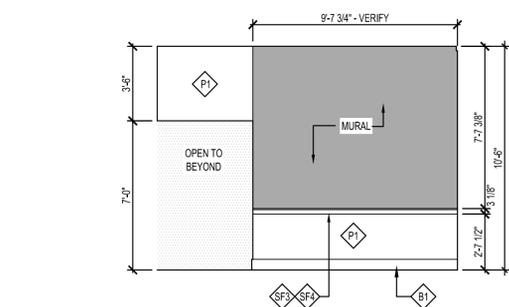
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SCALE: 1/4"=1'-0"



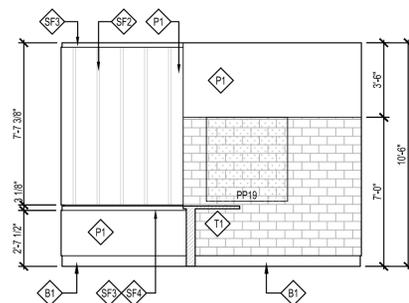
5 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



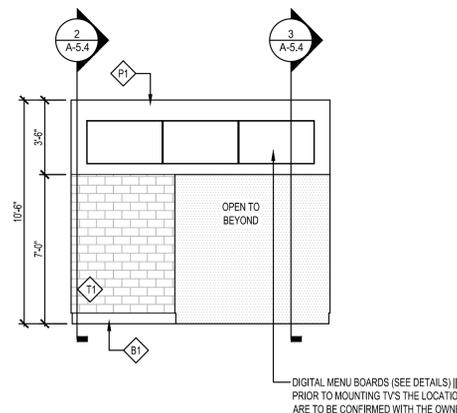
6 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



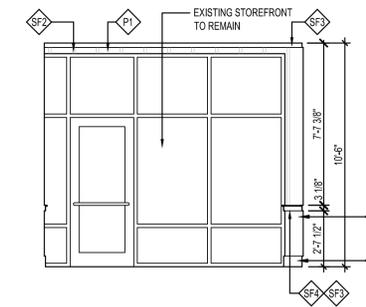
1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



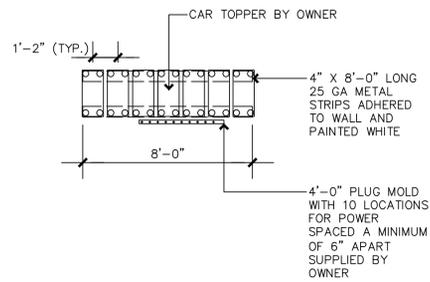
2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



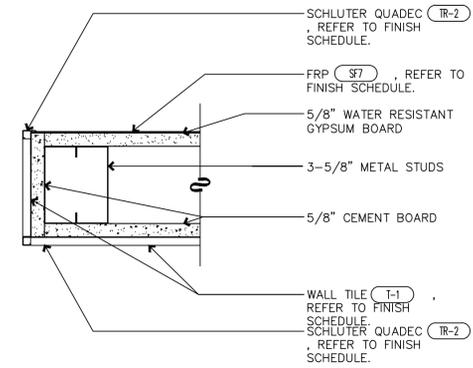
3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



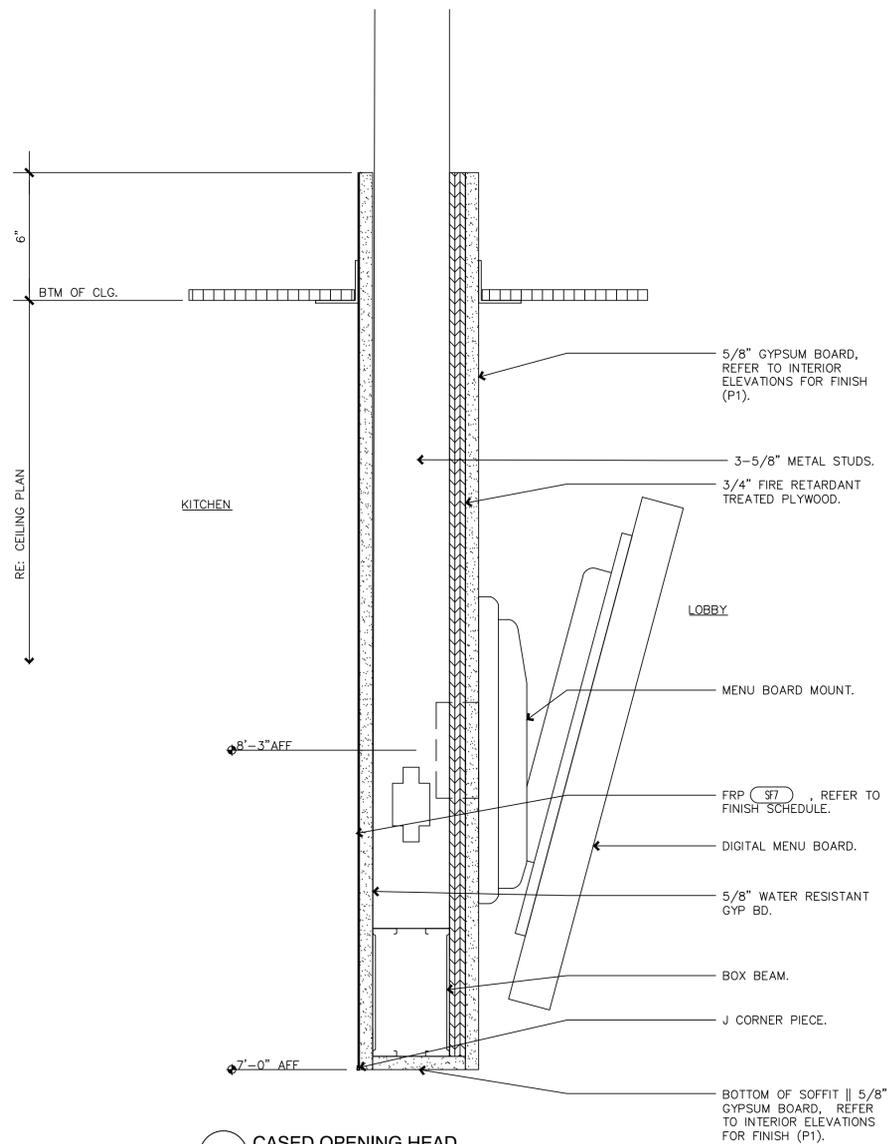
4 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



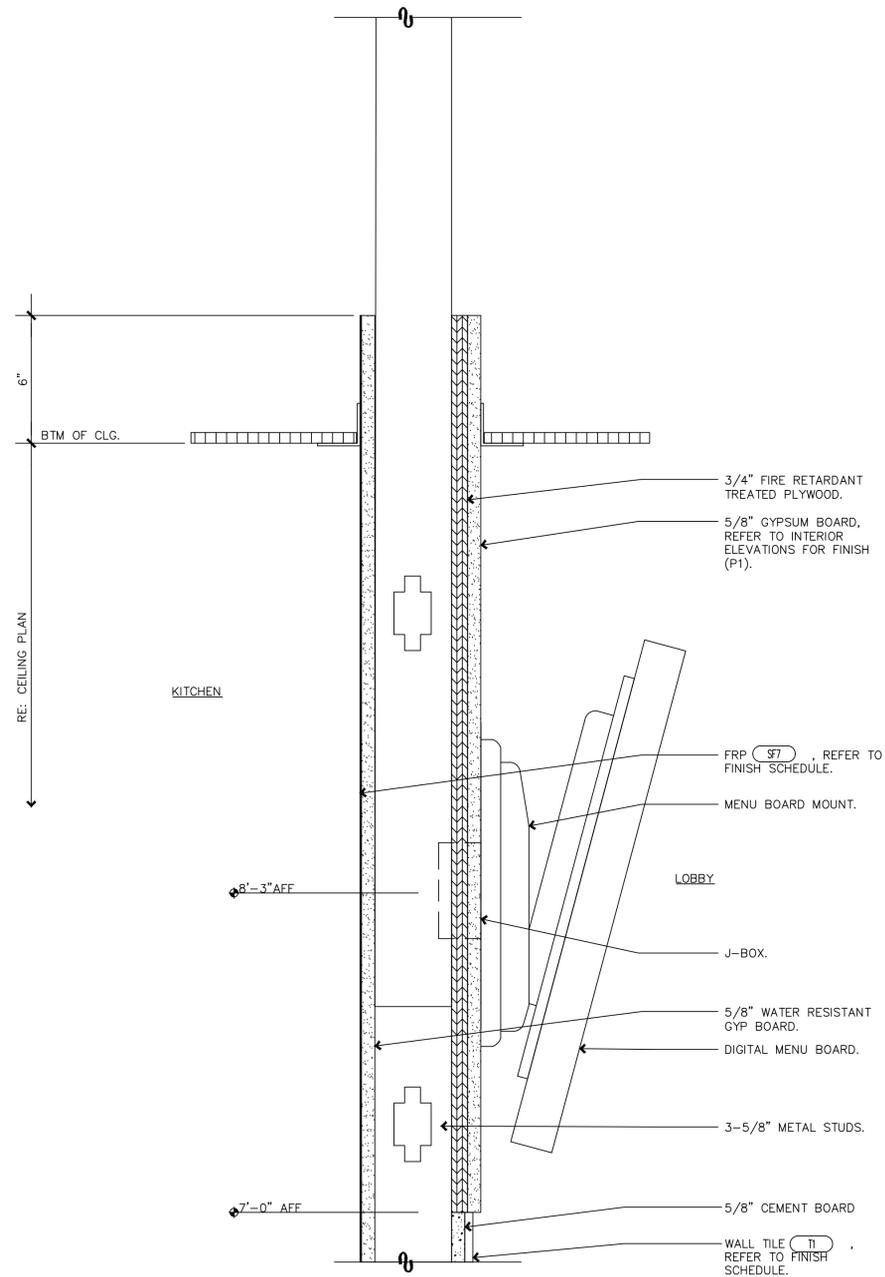
4 CAR TOPPER MOUNTING DETAIL
1/4" = 1'-0"



1 CASED OPENING JAMB
3" = 1'-0"



3 CASED OPENING HEAD
3" = 1'-0"



2 CASED OPENING WALL
3" = 1'-0"



GERALD P. NOE ARCHITECT
COLORADO REGISTRATION NO. 401357

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mail@gpnarcht.com

CHECKED BY: DKH
DRAWN BY: DKH

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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME: **6077**

HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:
MISC. DETAILS

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

A-5.4

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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY
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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
 6038 LYNC CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME: **6077**



HIGH POINTE RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:

EQUIPMENT PLAN & SCHEDULE

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

A-6.0

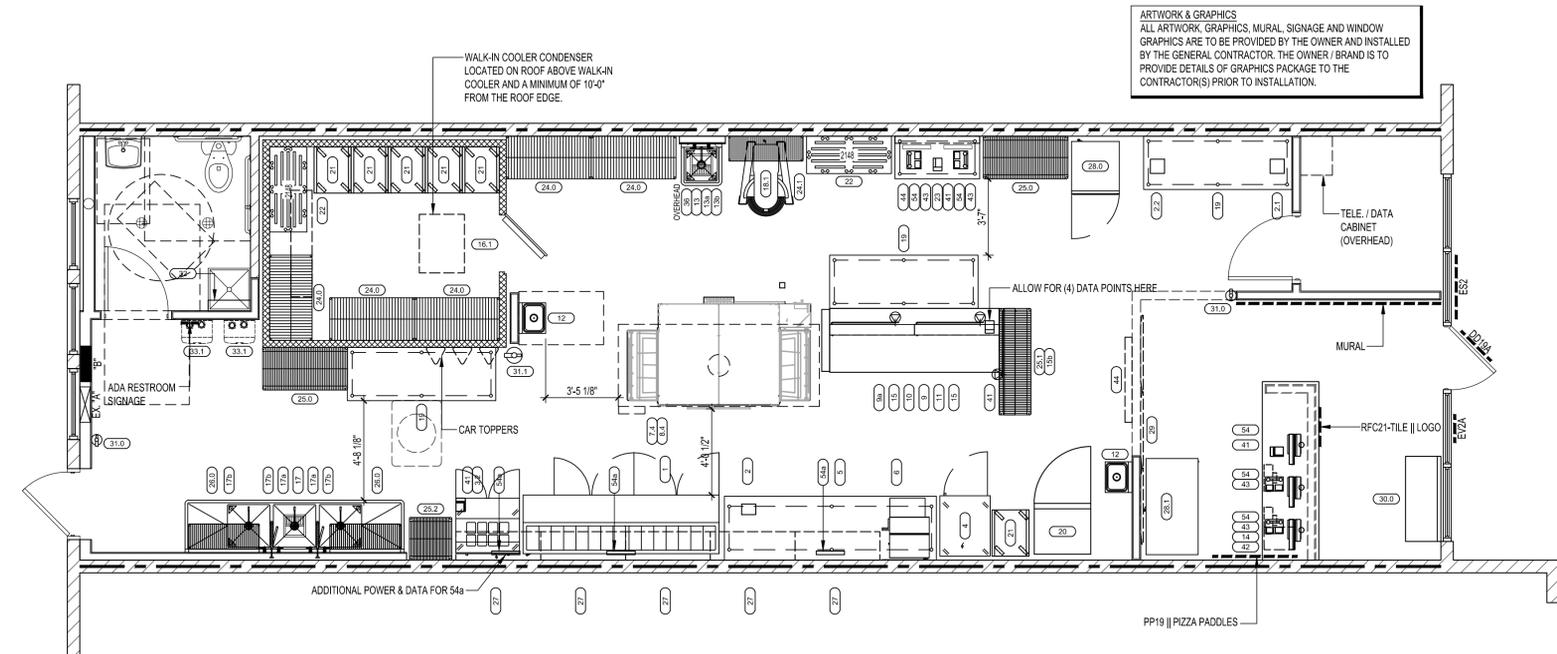
SHEET 12 OF 12

EQUIPMENT SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Amps	KW	HP	Volts	Phase	Cycle	Direct	Plug	NEMA	Electrical Aff (ft)	Electrical Rough-in	Cold Water Size (in)	Cold Water AFF (in)	Hot Water Size (in)	Hot Water AFF (in)	Flt. Water Size (in)	Flt. Water AFF (in)	Direct Drain Size (in)	Direct Drain AFF (in)	Inflr Drain Size (in)	Inflr Drain AFF (in)	Gas Size (in)	MBTUH	Gas AFF (in)		
1	1	Refrigerator, Pizza Prep	Randell	84111N	12.8		0.6	120	1	60	X		5-20P	8																
2	1	Scale, Portion, Digital	Doral Scale	7400																										
2.1	1	Easy Slicer, Manual	Nemco	NS5200AN-6																										
2.2	1	Can Opener	Etlund	#1																										
3.2	1	Refrigerator, Sandwich/Salad Prep	Continental Refrigerator	SW36N8	6.3		0.2	115	1	60	X		5-15P	7																
4	1	Display Case, Refrigerated	Continental Refrigerator	1RE-GD	6.9		0.2	120	1	60	X		5-15P	82.25																
5	1	Table, Work	Eagle Group/Metal Masters	UT36120B																										
6	1	Dough Roller	Somerset	CDR-500	6.8		0.5	115	1	60	X		5-15P																	
7.4	1	Oven, Conveyor	Edge Ovens	3870-2	9.5			120	1	60	X		L6-20P	39											1.25	185	21			
					9.5			120	1	60	X		L6-20P	57												1.25	185	41		
8.4	1	Type I Hood System	Edge	Edge EEH-23																										
9	1	Custom Pizza Table	Select Stainless Products	8MTC-36-L-CUSTOM																										
9a	1	SS Screen Catcher Box	Select Stainless Products	Custom																										
10	1	Maple Bakers Top (96" x 36")	Michigan Maple																											
11	1	Cutting Table Overshelf	Select Stainless Products	Custom																										
12	1	Sink, Hand, Wall Mount	Krowne Metal	HS-2																										
13	1	Sink, Scullery, 1 Compartment	Universal Stainless	1N18												0.5	38.5	0.5	38.5					1.5	22					
13a	1	Faucet, Wall Mount	Krowne Metal	14-801L																										
13b	1	Drain, Lever Handle	Krowne Metal	22-304																										
14	1	Safe	McGunn	QD1613P		COORD. W/ VENDOR																								
15	2	Warmer, Food Overhead	Hatco	GRA-48	6.7		0.8	120	1	60	X																			
15b	2	Warmer, Food Overhead	Hatco	GRA-60	8.8		1.0	120	1	60	X																			
16.1	1	Walk-In Cooler w/ Remote Condenser	T.B.D.	9'-9" x 11'-6" x 8'-4"(ht)																										
17	1	Sink, Scullery, 3 Compartments	Universal Stainless	3N24-2D24												0.5	38.5	0.5	38.5					1.5	22					
																0.5	38.5	0.5	38.5					1.5	22					
17a	2	Pre-Rinse Faucet, Wall Mount	Krowne Metal	17-109WL																										
17b	3	Drain, Lever Handle	Krowne Metal	22-304																										
18.1	1	Mixer, Pizza	Globe Food Equipment	SP62P	12.0		3.0	208	3	60	X		L15-20P	44																
19	3	Table, Work	Eagle Group/Metal Masters	T3084E W/ 2 Drawers																										
20	1	Freezer	Kelvinator	KFS220LH	6.2		0.2	115	1	60	X		5-15P	7																
21	6	Bun Sheet Rack	Kelmax	ARE25-182.5																										
22	2	Rack, Dunnage	Cambro	DRS480480																										
23	1	Table, Work	Eagle Group/Metal Masters	UT2448B																										
24.0	5	Wire Shelving, Epoxy Coated	Advance Tabco	EG-2448																										
24.1	1	Wire Shelving, Epoxy Coated	Advance Tabco	EG-1442																										
25.0	2	Shelving, Wire	Metro	2448NC																										
25.1	1	Shelving, Wire	Metro	1860NC																										
25.2	1	Shelving, Wire	Metro	2424NC																										
26.0	2	SmartWall, Epoxy Coated	Metro	40" SmartWall G3																										
27	5	Shelf, Wall Mount	TBD	16x48 SS Wall Shelf																										
28.0	1	Display Case, Refrigerated	True Manufacturing Co., Inc.	GDM-23-LD	5.2		0.6	0.3	115	1	60	X	5-15P																	
28.1	1	Display Case, Refrigerated	True Mfg. - General Foodservice	GDM-47-HC-LD	8.5		1.0	1/2	115	1	60	X																		
29	1	Menu Board System	Howard Co	Menu Board System		COORD. W/ VENDOR																								
30.0	1	Furniture	By Others	4'-0" Bench Seat																										
31.0	2	Wall Hung Dry Chemical Fire Extinguisher	Larsens	5 Lb.																										
31.1	1	Wall Hung Dry Chemical Fire Extinguisher Per Code	Larsens	Type K																										
32	1	Mop / Broom Rack	Rubbermade	RM1992																										
33.1	2	Tankless Water Heater	Rinnai	See Plumbing																										
36	1	Dual-Housing Water Treatment System With Drop-in Cartridges	Optipure	FX11+CR																										
41	4	Computer Equipment	By Vendor	Receipt Printer		COORD. W/ VENDOR																								
42	1	Computer Equipment	By Vendor	Report Printer		COORD. W/ VENDOR																								
43	4	Computer Equipment	By Vendor	Phone		COORD. W/ VENDOR																								
44	2	Computer Equipment	By Owner	55" TV (Wall Mounted)		COORD. W/ VENDOR																								
54	5	Computer Equipment	By Vendor	POS / Computer		COORD. W/ VENDOR																								
54a	3	Computer Equipment	By Vendor	Bump Screen		COORD. W/ VENDOR																								

GENERAL FOOD EQUIPMENT NOTES:

- PRIOR TO ANY UTILITY ROUGH-IN(S) THE G.C. AND SUB-CONTRACTORS SHALL REVIEW THE PROJECT SPECIFIC EQUIPMENT CUT SHEETS AND SUBMITTAL PROVIDED BY THE CLIENT AND FOOD EQUIPMENT COMPANY TO DETERMINE ALL UTILITY INFORMATION PROVIDED IN THE DESIGN DRAWINGS IS ACCURATE. THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE UNLOADING, STORAGE, UNCRATING, ASSEMBLING & INSTALLATION INCLUDING FINAL UTILITY CONNECTIONS OF ALL OWNER SUPPLIED FOOD EQUIPMENT.
- THE CONTRACTOR SHALL REQUEST THE MOST RECENT MANUFACTURER'S LITERATURE FOR THE OVENS AND HOOD. THEY SHALL PROVIDE & INSTALL ALL NECESSARY ITEMS TO COMPLETE THE FULL INSTALL INCLUDING BUT NOT LIMITED TO THE DUCT SHROUD ABOVE, SUSPENSION SYSTEM & THE FIRE SUPPRESSION SYSTEM.



ARTWORK & GRAPHICS
 ALL ARTWORK, GRAPHICS, MURAL, SIGNAGE AND WINDOW GRAPHICS ARE TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR. THE OWNER / BRAND IS TO PROVIDE DETAILS OF GRAPHICS PACKAGE TO THE CONTRACTOR(S) PRIOR TO INSTALLATION.

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



10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
 6038 LYNC CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME: **6077**



HIGH POINTE RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:

TYPICAL HOOD DETAILS W/ EDGE 3870 OVENS

PROJECT NUMBER 24-137

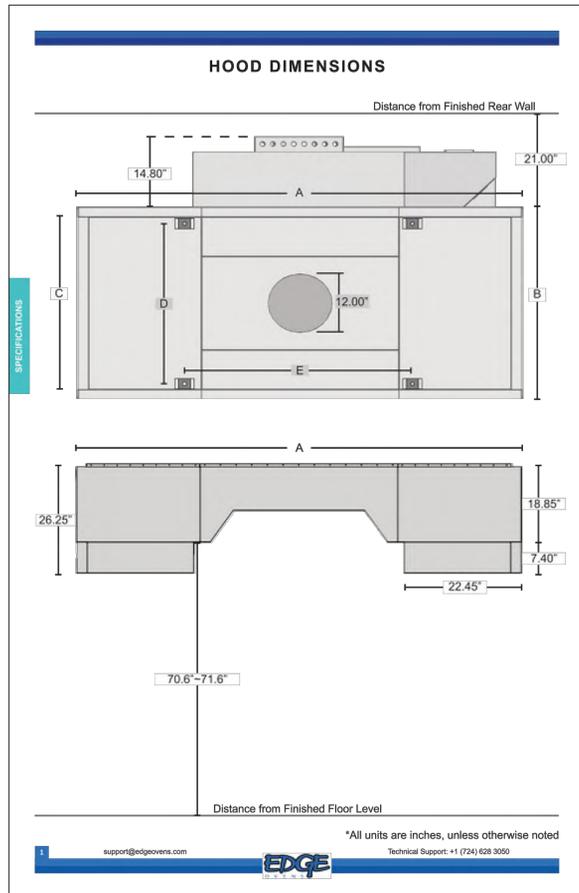
DATE 10-08-2024

SHEET NO.

A-6.1

SHEET 12 OF 12

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HOOD CONTROL ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	EEC-23-A	EEC-23-B
EXTRACTION SYSTEM SUPPLY		
VOLTAGE	120V	
PHASE	1 (SINGLE)	
HERTZ	60Hz	
MAX AMPERES	12A	
MAXIMUM WIRE SIZE	12 AWG Cu	
MAXIMUM TIGHTENING TORQUE	7 lb-in	
EXTRACTION FAN CONTROL SIGNAL		
VOLTAGE	120V	
PHASE	1 (SINGLE)	
HERTZ	60Hz	
MAX AMPERES	12A	
MAKE-UP AIR SUPPLY		
VOLTAGE	0 ~ 120	
MAX AMPERES	12A	
MAXIMUM WIRE SIZE	12 AWG Cu	
MAXIMUM TIGHTENING TORQUE	7 lb-in	
MAKE-UP AIR CONTROL SIGNAL		
VOLTAGE	0 ~ 10V DC	
MAXIMUM WIRE SIZE	12 AWG Cu	
RECOMMENDED WIRE SIZE (UL 13444, SHIELDED)	(2C)18 AWG	
MAXIMUM TIGHTENING TORQUE	7 lb-in	
FIRE SYSTEM INTERFACE CONTROL SIGNAL		
SIGNAL TYPE (FROM CONTROL)	24V DC	120 VAC
LANDING TYPE	N. O. DRY CONTACT (SIGNALLING ONLY)	
MAXIMUM WIRE SIZE	(2C) 18 AWG, UL 131444, SHIELDED	
LANDING TYPE	7 lb-in	
OVEN RECEPTACLES		
VOLTAGE	0 ~ 120	
PHASE	1 (SINGLE)	
HERTZ	60Hz	
MAX AMPERES	12A	
MAXIMUM WIRE SIZE	12 AWG Cu	
MAXIMUM TIGHTENING TORQUE	7 lb-in	

support@edgeovens.com Technical Support: +1 (724) 628 3050

HOOD DIMENSIONS (CONTINUED)

Oven Model	Hood Length	Hood Depth	Hood Capture Width	Mounting Distance (Front to Back)	Mounting Distance (Left to Right)
	A	B	C	D	E
EDGE-EEH-23-1830	75.57"	26.33"	22.00"	20.92"	24.75"
EDGE-EEH-23-2440	85.32"	32.33"	28.00"	26.00"	34.50"
EDGE-EEH-23-2460	103.82"	32.33"	28.00"	26.00"	53.00"
EDGE-EEH-23-3260	103.82"	40.33"	36.00"	34.00"	53.00"
EDGE-EEH-23-3860	103.82"	46.33"	42.00"	40.00"	53.00"
EDGE-EEH-23-4460	103.82"	52.33"	48.00"	46.00"	53.00"
EDGE-EEH-23-3270	113.83"	40.33"	36.00"	34.00"	63.00"
EDGE-EEH-23-3870	113.83"	46.33"	42.00"	40.00"	63.00"

HOOD EXTRACTION SPECIFICATIONS

Hood Model	Capture (Linear Ft)	Minimum FPM (Linear Ft)			Minimum CFM (Cubic Ft)		
		Single	Double	Triple	Single	Double	Triple
EDGE-EEH-23-1830	3.67	50	100	120	184	367	440
EDGE-EEH-23-2440	4.67	50	100	120	234	467	560
EDGE-EEH-23-2460	6.00	50	100	120	300	600	720
EDGE-EEH-23-2460	4.67	50	100	120	234	467	560
EDGE-EEH-23-3260	6.00	50	100	120	300	600	720
EDGE-EEH-23-3860	7.00	50	100	120	350	700	840
EDGE-EEH-23-4460	8.00	50	100	120	400	800	960
EDGE-EEH-23-3270	6.00	50	100	120	300	600	720
EDGE-EEH-23-3870	7.00	50	100	120	350	700	840

FILTER SPECIFICATIONS

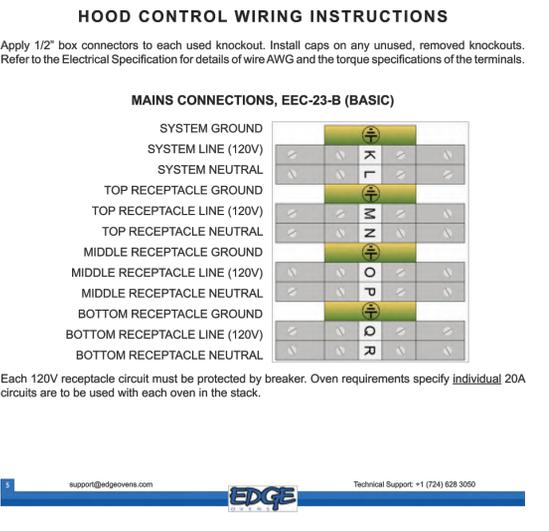
Filter	EEH-23-1830		EEH-23-2440		EEH-23-2460		EEH-23-3260		EEH-23-3860		EEH-23-4460		EEH-23-3270		EEH-23-3870	
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FILTER - 12" x 16"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FILTER - 12" x 20"	2	2	2	2	2	2	4	X	2	4						
BLANK - 2"	2	X	X	X	X	X	2	X	X	2						
BLANK - 8"	X	2	X	2	X	X	X	X	X	X						

Filters are provided as standard with your hood system according to the above specification.

Filter Manufacturer: Kason
 Filter Series: "Trapper" 7001 or 7002

support@edgeovens.com Technical Support: +1 (724) 628 3050

- ### HOOD INSTALLATION INSTRUCTIONS
- #### RECEIVING & UNCRATING
- Upon delivery of the hood, conduct a thorough inspection of the crating for any signs of damage. If any damage is observed, cease the uncrating process immediately. Contact the freight carrier promptly to report the damage.
 - Position the hood in a designated workspace near the intended installation location.
 - Remove the hood from the protective crating material.
- #### LIFTING & HANGING
- Lift the hood using two (2) Genie Lifts or equivalent lifting tools and carefully place it into position.
 - To ensure proper positioning, maintain a distance of approximately 21-inches between the back edge of the hood and any rear wall or structure. This measurement accounts for the oven itself and the additional 6-inch clearance required for the rear of the oven.
 - Support the hood using 1/2" all thread (not provided) and mount to the affixed hood hanging brackets. Refer to the "Rough-In" dimension provided on page 2. The hood should be hung at 70.6" ~ 71.6".
 - Once happy with the hood position proceed with making the necessary duct work connections.



HOOD CONTROLS GENERAL DESCRIPTION

The EEC-23 hood extraction controls has been designed specifically for the EEH-23 EDGE Hood product family.

The EEC-23-B (Basic) control is a single extraction speed control unit which meets the basic needs of most kitchen installations. This control unit provides power switching of the Extraction Fan unit, switching of the MUA or HVAC Fan control voltage, and may be configured to provide local control of the Extraction Fan speed. The control provides Fire Suppression electrical connections which allow the Extraction Fan to be activated in the event of a fire. Additionally, (3) NEMA-5-20R are incorporated which may be connected to independently protected circuits for providing oven power.

The EEC-23-A (Advanced) control includes all the features of the EEC-23-B and much more. Automatic, responsive extraction and MUA are available by means of control signal outputs. MUA may also be controlled by means of (3) cascading damper control relays (1, 1+2, 1+2+3). As the connected ovens are brought on-line, the EEC-23-A responds with the configured 0-10v control signal for the Extraction and MUA unit, while also engaging any connected MUA damper. Air Switch proofing may also be incorporated to ensure Extraction and/or MUA are functioning prior to energizing the connected ovens.

With all EEC-23 controls, when a fire protection system is installed, EDGE recommends that the MUA primary control be wired through (series) the dry contacts of the protection system. The EEC-23 control is not intended to replace any part of the fire protection system.

HOOD CONTROL SELECTION

Use the following feature list to determine which control system meets your minimum requirements.

FEATURES	EEC-23-A	EEC-23-B
EXTRACTION INTERFACE		
SINGLE SPEED CONTROL	✓	✓
MULTI SPEED CONTROL	✓	⊗
ON-OFF CONTROL	✓	✓
AIR SWITCH INTERCONNECTION	✓	⊗
0-10v REMOTE SPEED ADJUSTMENT	✓	✓
AUTOMATIC SPEED ADJUSTMENT	✓	⊗
RECEPTACLE MONITORING (AUTO-SPEED)	✓	⊗
WAKE-UP AIR INTERFACE		
SINGLE DAMPER ON-OFF	✓	✓
MULTI DAMPER ON-OFF	✓	⊗
AIR SWITCH INTERCONNECTION	✓	⊗
0-10v REMOTE ADJUSTMENT	✓	⊗
RECEPTACLE MONITORING (AUTO-SPEED)	✓	⊗
FIRE SYSTEM INTERFACE		
RESPONSIVE EXTRACTION	✓	✓
RESPONSIVE MUA	✓	⊗
RESPONSIVE RECEPTACLES	✓	⊗

support@edgeovens.com Technical Support: +1 (724) 628 3050

GENERAL NOTE

- WHEN THIS DRAWING REFERENCES "BY OTHERS", IT IS REFERENCING THIS IS NOT PROVIDED AS PART OF THE EQUIPMENT. THESE ITEMS ARE REQUIRED TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR AS PART OF THEIR BASE BID.
- ANSUL SYSTEM IS GC SUPPLIED & INSTALLED
- GC IS TO INSTALL QUICK DISCONNECT COUPLERS FOR ANSUL & GAS CONNECTIONS AS REQUIRED FOR ROUTINE OVEN MAINTENANCE.
- THE GC IS TO REQUEST THE MOST RECENT HOOD AND OVEN INSTALLATION DETAILS FROM THE MANUFACTURER / SUPPLIER PRIOR TO ANY CONSTRUCTION TAKING PLACE.
- ALL DETAILS ARE TO BE COORDINATED BETWEEN THE MANUFACTURER'S DETAILS & THE ENTIRE PLAN SET.

DISCLAIMER

ALL KITCHEN EQUIPMENT (HALTON / VENT TECH) DRAWINGS WERE DESIGNED AND PROVIDED BY A THIRD PARTY AND ARE SHOWN ON THESE PLANS FOR INFORMATIONAL PURPOSES ONLY. GPN / GERALD P. NOE, ARCHITECT OR OUR CONSULTANTS ACCEPTS NO RESPONSIBILITY FOR DESIGN AND DESIGN INTENT OF THE KITCHEN HOODS AND ASSOCIATED EQUIPMENT. INSTALLATION OF ALL KITCHEN EQUIPMENT SHALL BE COORDINATED WITH KITCHEN EQUIPMENT DESIGNER AND KITCHEN EQUIPMENT CONTRACTOR PRIOR TO BEGINNING ANY WORK.



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10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY
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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

**TYPICAL HOOD
DETAILS W/
EDGE 3870
OVENS**

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

A-6.2

SHEET 12 OF 12

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.

CLEANING (CONT.)

while the ovens are in operation or the hood system is hot. Please exercise caution and wait until the system has cooled down before performing any cleaning or maintenance tasks.

SYSTEM BALANCING

Make Up Air is important! Hood system which are not balance with adequate MUA will not perform properly. As air is removed from the kitchen, an imbalance of air pressure will result. The MUA corrects this condition. When doors are difficult to open or are pulled open by drafts, when stiff drafts are noticed through open windows, or when water perks in drainage traps, these are potential symptoms of an imbalanced extraction systems.

The correct balance of extraction and make-up air will result in a static pressure within the kitchen of no more than -0.2 inwc.

MUA vents which diffuse a full 360° should be at least 10 feet from the oven stack. MUA may be positioned to within 2 feet of the hood, provided that the diffused air in open away from the oven stack. MUA and uncontrolled drafts which blow towards the oven stack will disrupt extraction, will reduce oven efficiency and will create imbalance of the bake chambers.

EXTRACTION BALANCING, EEC-23-B

Power on the exhaust system and, if installed, the Make Up Air (MUA) system.

Balance the extraction and MUA according to the minimum extraction requirements outlined on the hood rating tag or within this manual. Please note that this is merely a minimum starting point. Minimum extraction rates are measured and achieved in laboratory test conditions. The primary goal of any Type 1 extraction hood is to remove the gaseous byproducts for the equipment and baking process from the kitchen. Your extraction rates may be higher, but are never to be lower than the rating of the hood.

*The baseline information below may not be suitable for your installation. This information is provided as an example of AN installation:

- (1) CaptiveAire Ventilator extraction systems
- (1) EDGE EEH-23-4460 Hood
- (3) EDGE-4460 stacked EDGE ovens
- 960CFM has been achieved at 41% extraction fan speed
- 800CFM has been achieved at 33% extraction fan speed
- 400CFM has been achieved at 20% extraction fan speed

Your actual extraction rates may be higher.

Adjust the extraction as necessary to achieve the level of extraction required to capture escaping gaseous byproducts.

TO ADJUST THE EXTRACTION FAN SPEED REMOTELY:

Adjust the speed dial located in the hood control panel. Steps are in 1% increments.

- 00 OFF
- 99 = MAX

Please note: CaptiveAire Ventilator controls have a defined minimum set-point of 20%. Please consult the CaptiveAire Installation and Operation manual for additional information.

TO ADJUST THE EXTRACTION FAN SPEED LOCALLY (at the motor):

Use the UP/DOWN buttons on the local Extraction motor control.

OPERATION

EEC-23-B

The EEC-23-B control system is designed to be manually turned ON and OFF via the MAIN POWER switch located on the hood control box. Ovens fitted beneath the extraction hood are intended to be powered by the receptacles supplied on the control box.

STARTUP: TURN ON MAIN POWER SWITCH PRIOR TO OPERATING ANY OVENS UNDER THE EXTRACTION HOOD

SHUTDOWN: TURN OFF OVENS PRIOR TO TURNING OFF MAIN POWER SWITCH

The illumination of the MAIN POWER switch will indicate the state of the switch. The control system will operate the extraction fan and MUA for 30 minutes after turning the power switch to OFF AND after the hood temperature switch opens, this is normal system operation. Additionally, if the temperature switch closes at any point, the 30 minute timer will be again activated and the system will begin or continue to operate.

In the event the connected Fire Suppression system is activated, the extraction fan / MUA relay will be held in the ON state until the Fire System system is reset or power is removed. It is critical that the connected MUA system utilizes a Fire System micro-switch!



EEC-23-A

The EEC-23-A control system is designed to be manually turned ON and OFF via the MODE button located on the hood control box. Ovens fitted beneath the extraction hood are intended to be powered by the receptacles supplied on the control box.

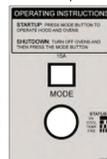
STARTUP: PRESS MODE BUTTON TO OPERATE HOOD AND OVENS

SHUTDOWN: TURN OFF OVENS AND THEN PRESS THE MODE BUTTON

During the STARTUP process, the hood control will activate the extraction fan and MUA systems according to the LOW speed ("TOP") set-point. As ovens are turned on, the hood control will respond to the changing state of the stack and direct the extraction and MUA units accordingly. When the SHUTDOWN process is initiated, the hood and MUA system will continue to operate in COOL mode until all ovens are off and the temperature switch has opened.

The mode (or STATUS) is indicated by the illuminated button: Steady ON = ON, Slow flashing = COOL, Fast flashing = TEMP (temperature switch is closed), Rapid flash = FIRE mode has been triggered.

During FIRE mode, the extraction fan will operate at the HIGH (BOTTOM) setting, MUA will not be engaged.



CLEANING

The cleaning of the hood should adhere to the guidelines set forth in NFPA-96 sec.11.6.2 or comply with local regulations governing hood maintenance.

Filters can be cleaned by hand washing, steaming, or using other appropriate methods. Take care to avoid causing any damage to the filters during the cleaning process.

Avoid using abrasive or harsh, caustic cleaners on the hood or any of its components. These types of cleaners can potentially cause damage.

Under no circumstances should the hood, hood skirting, or belt skirting be disassembled or cleaned



OPERATION



10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

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HARMAN SINGH
 6038 LYNC CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME:

6077



HIGH POINTE RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:

MISC. EQUIP. & UTILITY REFERENCE PHOTOS

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

A-6.3

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.

	Plumbing: Copper drain pipe (or PVC equivalent) is to be installed underneath condenser unit in walk-in cooler. Drain pipe into nearest floor sink. P-trap and silicone required by health department. Run pipe immediately to nearest wall and surface-mount around all walls if necessary in order to reduce pipe exposure. Run bead of silicone on top of surface-mounted pipe as required by health department.
	Electrical: In many cases, we need a minimum of 4 junction boxes, each with 4 outlets (quad), installed at the top of the exposed side of the walk-in cooler for the purposes of powering our car-topper signs. In some cases the location may be on a nearby wall. Confirm placement with owner before installing.

	Do not position left side of left shelves or right side of right shelves past the left or right side of the 3-comp sink respectively. Confirm placement of wall shelving with owner.
	For 10' sinks: Confirm with owner placement of gooseneck spray nozzle (right side of 3-comp vs left side). Owner-supplied faucets installed on both sides.
	For 7' sinks: Confirm with owner placement of gooseneck spray nozzle (right side of 3-comp vs left side). Note: a separate company will come install the soap dispensing system once plumbing is complete.
	Mixer shelf (owner-supplied): • Chrome finish • 14"x48" with 14" brackets • Install top of shelf at 68" AFF • Confirm placement with owner
	Caulk/silicone above splash guard of 3-compartment sink Anchor 3-compartment sink into plywood-backed wall or into wall studs. Very important. Note: Caulked/silicone above 3-Compartment sink, prep sink, and hand washing sinks. If applicable, install stainless steel flashing around frame of pick-up window.

	Stainless Steel Makeline Shelves (owner-supplied): 14"x48"; comes with brackets Install top of shelf at 64" above finished floor (AFF) Most stores will have a shelf above the stainless steel stretch table. And the rest of the shelves will be above the makeline unit. Confirm placement with owner.
	Ticket holder (owner-supplied) Install: 1 - Above sub station 1 - Above stretch table 2 - On cut table Confirm placement with owner.
	Stainless steel driver table (owner-supplied): 24"x48" At least one shelf (bottom) will always be provided. Install at 6" AFF. If additional shelves are included then their heights should be: 6", 16", 26" AFF
	Stainless steel drawer (owner-supplied): Install underneath prep-table Prep Table: final height must match height of makeline (approx. 36" AFF with casters). Install legs and casters and measure table height. Cut legs to ensure height matches makeline (approx. 36" AFF) height of table.
	Owner-supplied 14"x48" green epoxy shelving and 14" shelving brackets are to be installed above the owner-supplied 3-compartment sink. Must be plywood backing behind wall to ensure secure anchoring. Use standard wood screws. Bottom Shelf Height: 81" AFF (at top of shelf) Top Shelf Height: 62" AFF (at top of shelf) Spacing: Approx. 16"-20" spacing between shelves to allow space for gooseneck spray nozzle.

	Carryout Shelving (Owner-Provided): To be located at the end of the cut-table. • 18"x48" Chrome finish • 75" posts • No casters • 5-Tier Shelving: 6", 29", 45", 60", 75" • Two Hatco warmers (owner-provided) must be installed underneath the top two shelves.
	Dry Goods Shelves (Owner-Provided): Note: Most stores will have between two and four dry goods shelving units. Located at various locations. • 24"x48" Chrome finish • 86" posts • 6" Casters • 5-Tier Shelving: 0", 25", 46", 64", 82" (not including casters) Casters add 6". Place bottom shelf just above the caster (i.e. 0").
	Dish Drying Shelves (Owner-Provided): Note: Most stores will have between one and two dish drying shelving units. Located near 3-comp sink. • 24"x48" Epoxy-coated (usually green) finish • 86" posts • 6" Casters • 5-Tier Shelving heights AFF (with casters): 6", 30", 50", 70", 82"
	Walk-in Cooler Shelves (Owner-Provided): Three (3) total sets of shelves. Located in walk-in. • 24"x48" Epoxy-coated (usually green) • No casters • Shelf posts: o Two sets - 86" posts o One set - 76" posts (cut 10" off top of the 86" posts; place shelf under condenser) • 5-Tier Shelving heights AFF: Two Sets: 6", 32", 50", 66", 84" One Set: 6", 32", 50", 66", 76"

	Install owner-provided safe under front counter. Procedure: open door, mark floor holes onto finished tile, drill as per instructions, mount safe to floor with appropriate masonry anchors. Confirm placement with owner. Safe code is printed on paper found in safe. Protect safe code and provide to owner.
	Plumbing: Use metal struts and brackets to secure sink (PVC) pipes to the floor. This protects them from damage when staff mop the floor.
	Equipment: Remove all protective plastic from all equipment, including hood, oven, refrigeration equipment, etc.

	Prep sink 1. Caulk/silicone above sink 2. Securely anchor sink to plywood-backed wall or into studs. Use butterfly anchors if necessary. Very important.
	Space between wall and walk-in cooler must be covered with 90 degree piece of aluminum or stainless steel. Adhere to wall and walk-in cooler with silicone and self-taping screws. Required by health department.
	Supply and install three TV mounting brackets with minimum 15 degree tilting feature. Evenly space and level brackets. Owner will supply TVs. Confirm with owner the size of TV to determine bracket size and placement. Very important that the TVs are installed evenly and level. Center middle bracket and evenly space right and left bracket. Space between TVs should not exceed 1".
	Electrical & Low Voltage: Install 50 cable "whip" from ceiling with an 8' slack. Quad receptacle junction box at the end of the whip. Install data jack near 50 cable. Both 50 cable and data jack should be placed directly above the carryout rack placed at the end of the cut table. Confirm placement with owner before installing.

	Steel Plates: Provide and install 6"x6" stainless steel plates (approx. .11 gauge) underneath each of the four oven legs to help distribute oven weight. Maximum 12 gauge.
	See plans for plumbing installation of owner-provided water filter. To be position above prep sink as seen here.
	Weld owner-provided splash guard onto prep sink if required by owner. Confirm with owner which side before welding. Knife magnet installed approx. 12"-16" above splash guard of prep sink. Owner-supplied with smallwares package.



10-08-2024

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

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HARMAN SINGH
6038 LYNC CREEK CIRCLE
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PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

**MISCELLANEOUS
DETAILS**

PROJECT NUMBER 24-137

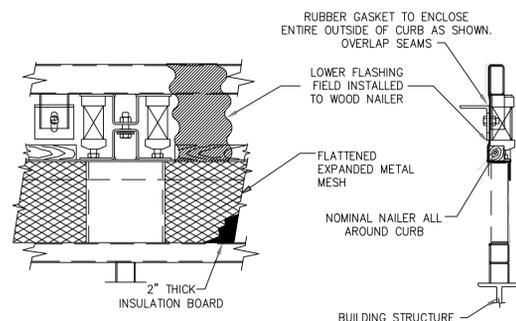
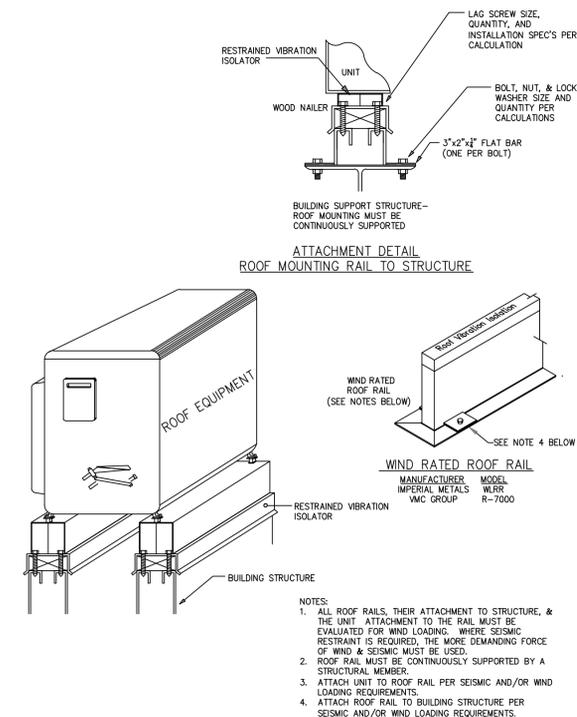
DATE 10-08-2024

SHEET NO.

A-7.0

SHEET 12 OF 12

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.

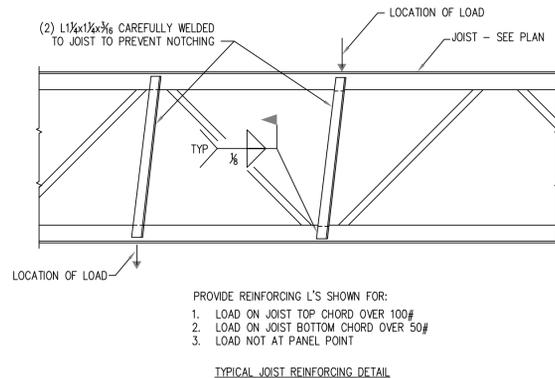


- NOTES:
- ALL ROOF CURBS, THEIR ATTACHMENT TO STRUCTURE & THE UNIT ATTACHMENT TO THE CURB MUST BE EVALUATED FOR WIND LOADING. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND & SEISMIC MUST BE USED.
 - WIND LOAD ACCOMMODATION MAY REQUIRE USE OF STEEL CABLES & CLAMPS. EQUIPMENT MANUFACTURER TO PROVIDE CALCULATIONS TO DETERMINE EXACT REQUIREMENTS, CONTRACTOR TO INCLUDE CABLES AND CLAMPS IN BASE BID ON ALL ROOF CURBS.

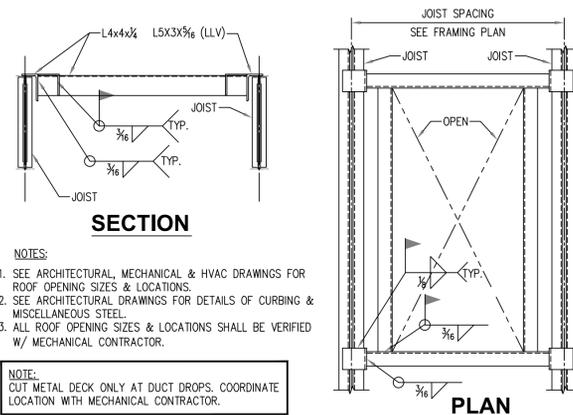
3 WIND RATED VIBRATION ISOLATION ROOF CURB
NOT TO SCALE

4 NOT USED
NOT TO SCALE

5 WALK-IN CONDENSER SEISMIC / WIND BRACING DETAIL
NOT TO SCALE



1 TYPICAL RTU SUPPORT DETAIL
NOT TO SCALE



- NOTES:
- SEE ARCHITECTURAL, MECHANICAL & HVAC DRAWINGS FOR ROOF OPENING SIZES & LOCATIONS.
 - SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CURBING & MISCELLANEOUS STEEL.
 - ALL ROOF OPENING SIZES & LOCATIONS SHALL BE VERIFIED W/ MECHANICAL CONTRACTOR.

NOTE:
CUT METAL DECK ONLY AT DUCT DROPS. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

TYP. RTU SUPPORT & ROOF OPN'G FRAMING

NOTE: PROVIDE SUPPORT FRAMING FOR ROOF OPENINGS 12'x12' AND LARGER

2 TYPICAL RTU SUPPORT DETAIL
NOT TO SCALE

DRAWING NOTES:

A) DETAILS PROVIDED FOR REFERENCE ONLY AND ARE GENERAL IN NATURE. COORDINATE WITH EQUIPMENT MANUFACTURERS FOR PROJECT SPECIFIC INSTALLATION DETAILS. REFER TO SPECIFICATIONS AND LOCAL AHJ REQUIREMENTS FOR EXACT WORK INVOLVED. COORDINATE ALL REQUIREMENTS WITH SEISMIC AND WIND BRACING RESTRAINTS PRIOR TO BIDDING PROJECT, NO EXCEPTIONS. CONTRACTOR SHALL NOT BE EXCUSED FROM HIS/HER WORK BECAUSE HE/SHE DID NOT INCLUDE ALL LOCAL AHJ REQUIRED SEISMIC AND/OR WIND RESTRAINTS IN BASE BID.

PLUMBING SPECIFICATIONS

01 GENERAL CONDITIONS

GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS IN THAT THEY ARE APPLICABLE TO THE WORK UNDER THIS DIVISION UNLESS OTHERWISE NOTED.

PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.

PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, BOND PROPERTY ASSESSMENTS AND FACILITIES CHARGE ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT.

WARRANTY: PROVIDE ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.

THE CONTRACTOR SHALL TIE INTO CIVIL PROVIDED TAP AS INDICATED ON PLANS. ALL COSTS FOR THIS SERVICE SHALL BE PART OF HIS BID CONTRACT PRICE.

PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED.

PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES.

MAKE SURE PROVISIONS ARE INSTALLED IN ALL PIPING SO NO STRAIN OR BREAKAGE RESULTS FROM EXPANSION OR CONTRACTION.

INSTALL WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.

PITCH ALL WATER PIPES SO THAT ALL PARTS MAY BE DRAINED. THE FORMATION OF SAGS AND TRAPS SHALL BE AVOIDED.

PROVIDE SHOCK ARRESTORS WHERE SHOWN ON PLANS FOR THE COMPLETE ELIMINATION OF WATER HAMMER.

STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.

SANITARY PIPING 2.5" OR LESS SHALL BE SLOPED AT 1/4" PER FOOT. SANITARY PIPING 3" OR LARGER SHALL BE SLOPED AT 1/8" PER FOOT, UNLESS OTHERWISE REQUIRED BY CODE OR NOTED.

WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, WITH MATCHING STOPS AND ESCUTCHEONS.

PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEAN-OUT PLUG FOR ALL LAVATORIES. INSTALL CLEAN-OUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.

INSTALL CLEAN-OUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.

02 MATERIALS AND EQUIPMENT

ALL NEW WORK SHALL BE OF MATERIALS LISTED BELOW OR SHALL MATCH EXISTING. IF A CONFLICT EXISTS BETWEEN MATERIALS AND/OR EQUIPMENT, THE MORE STRINGENT SHALL APPLY AS ADJUDGED BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL FIELD VERIFY MATERIAL TYPE AND EQUIPMENT.

A. SANITARY SEWER PIPE AND FITTINGS - BELOW GRADE:
SCHEDULE 40 PVC DWV PIPE, (ASTM D1784 - D2665), PVC SOCKET FITTINGS AND SOLVENT CEMENTED FITTINGS. (ASTM D2665)

B. SANITARY SEWER/VENT PIPE AND FITTINGS - ABOVE GRADE:
SCHEDULE 40 PVC DWV PIPE, (ASTM D1784 - D2665), PVC SOCKET FITTINGS AND SOLVENT CEMENTED FITTINGS. (ASTM D2665)

C. DOMESTIC WATER PIPING BELOW GRADE:
SOFT ANNEALED SEAMLESS COPPER TUBING, TYPE 'K' WITH NO JOINTS BELOW GRADE (ASTM B 88).

D. DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE:
3" AND BELOW:
CROSSLINKED POLYETHYLENE (PEX A) BY WIRSB0 AQUAPEX (ASTM F876 AND ASTM F877) WITH PEX-A COLD EXPANSION FITTINGS, PROPEX INSERT WITH CORRESPONDING PROPEX RING. (ASTM F1960)
MINIMUM BEND RADIUS (COLD BENDING): NO LESS THAN SIX TIMES THE OUTSIDE DIAMETER. USE A BEND SUPPORT AS SUPPLIED BY THE PEX TUBING MANUFACTURER FOR TUBING WITH A BEND RADIUS LESS THAN STATED.
MANIFOLDS: UPONOR PROPEX 1 OR UPONOR ENGINEERED PLASTIC (EP) MANIFOLDS. ALL MANIFOLDS MANUFACTURED WITH THE APPROPRIATE SIZED PROPEX FITTINGS.
PROVIDE RED PEX PIPE FOR HOT WATER, BLUE PEX PIPE FOR COLD WATER SYSTEMS.

E. NATURAL GAS PIPE AND FITTINGS ABOVE GRADE:
PIPING 3" AND BELOW:
HARD DRAWN SEAMLESS COPPER TUBING, TYPE 'L' (ASTM B 88) WITH WROUGHT-COPPER FITTINGS BRAZED JOINTS (ASME B16.50) OR PRESSURE SEALED JOINTS WITH EPDM-RUBBER, O-RING SEAL (PROGRESS-G OR EQUAL) (ANSI LC-4).
SCHEDULE 40, STEEL PIPE (ASME A 53) WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS (ASME B16.3) OR PRESSURE SEALED JOINTS WITH EPDM-RUBBER, O-RING SEAL (PROGRESS-G OR EQUAL) (ANSI LC-4).

INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH PREFORMED FIBERGLASS OR ENGINEERED POLYMER FOAM INSULATION. FOLLOW THIS SCHEDULE:

SERVICE	PIPE SIZE	THICKNESS			
			ALL	1"	1/2"
DOMESTIC HOT WATER (105 - 140 F)					
DOMESTIC HOT WATER RETURN					
DOMESTIC COLD WATER					

03 INSULATION

INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH PREFORMED FIBERGLASS OR ENGINEERED POLYMER FOAM INSULATION. FOLLOW THIS SCHEDULE:

PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY (ASTM E84/NFPA 255) METHOD.
INSULATE HORIZONTAL STORM DRAIN PIPING ABOVE GRADE AND ROOF DRAIN BODIES WITH 1.5" PREFORMED FIBERGLASS OR ENGINEERED POLYMER FOAM INSULATION.

04 VALVES

SHUT OFF VALVES: BRASS/BRONZE, BALL TYPE, FULL PORT, TWO-PIECE, 125 PSI WORKING PRESSURE, NSF 61 APPROVED.
CHECK VALVES: BRASS/BRONZE, SWING TYPE, 125 PSI WORKING PRESSURE, NSF 61 APPROVED.
INSTALL IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED.

05 TESTS

ALL SOIL, WASTE, VENT AND WATER PIPING SHALL BE TESTED BY THE CONTRACTOR IN THE PRESENCE OF THE PLUMBING INSPECTOR AND SHALL BE APPROVED BY THE ENGINEER BEFORE ACCEPTANCE. ALL PIPING LOCATED UNDERGROUND OR CONCEALED IN BUILDING CONSTRUCTION SHALL BE TESTED BEFORE BACKFILLING OR CONCEALING PIPE. ALL TESTS REQUIRED FOR EQUIPMENT SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER.

06 SEISMIC REQUIREMENTS

PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

07 GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM AGAINST DEFECTS DUE TO FAULTY MATERIALS, WORKMANSHIP OR FAILURE DUE TO NEGLIGENCE OF THE CONTRACTOR. THIS GUARANTEE SHALL EXTEND 12 MONTHS FROM DATE OF FINAL ACCEPTANCE. ALL SERVICE CALLS DURING THIS PERIOD SHALL BE PROVIDED BY THE CONTRACTOR.

PLUMBING LEGEND

NEW WORK

---	DOMESTIC COLD WATER
---	DOMESTIC EXISTING COLD WATER
140	DOMESTIC 140" WATER
140HWR	DOMESTIC 140" WATER RETURN
F	FILTERED WATER
---	SANITARY
---	VENT
RL	STORM DRAIN (ABOVE SLAB)
SD	STORM DRAIN (BELOW SLAB OR GRADE)
CD	CONDENSATE
GW	GREASE WASTE
D	DRAIN
P	SUMP PUMP DISCHARGE
o	PIPE TURNING DOWN
o	PIPE TURNING UP
o	PIPE CAP
o	FIXTURE SUPPLY WITH SHUT-OFF
o	SHUT-OFF VALVE
o	CHECK VALVE
o	EXPANSION VALVE
o	BALANCING VALVE
o	PRESSURE REDUCING/REGULATING VALVE
o	STRAINER
o	UNION
o	GAS COCK
o	GAS REGULATOR
o	SAFETY OR RELIEF VALVE
o	SOLENOID VALVE
o	OS&Y VALVE
o	FLOOR DRAIN
o	HUB DRAIN
o	FLOOR SINK
o	TRENCH DRAIN
o	ROOF DRAIN
o	FLOOR CLEANOUT
o	END-OF-LINE CLEANOUT
o	WALL CLEANOUT
o	PRESSURE GAGE
o	THERMOMETER

o	BACKFLOW PREVENTER (REDUCED PRESSURE)
o	BACKFLOW PREVENTER (DOUBLE CHECK)
o	METER (GAS OR WATER)
o	PUMP
o	CHECK ARRESTOR (SUPERIOR INDICATES PDI SIZE)
o	FREEZE PROOF WALL HYDRANT BOX
o	HOSE BIB
o	TRAP PRIMER
o	FLOW SWITCH - FS#1
o	DIRECTION OF FLOW
o	EXPANSION JOINT
o	PIPE ANCHOR
o	PIPE SLEEVE
o	FLEXIBLE CONNECTION

REVISION NOTES

o	POINT OF CONNECTION NEW TO EXISTING
o	DOMESTIC WATER RISER DESIGNATION
o	WASTE RISER DESIGNATION
o	SECTION OR DETAIL NO.
o	SECTION OR DETAIL LOCATED ON THIS SHT.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AC	ABOVE CEILING
ADB	AUXILIARY DRAIN BOX
AFF	ABOVE FINISH FLOOR
BF	BELOW FLOOR
BF-1	BACKFLOW PREVENTER
BFF	BELOW FINISH FLOOR
BTUH	BRITISH THERMAL UNIT/HOUR
BS-1	BREAK ROOM SINK
BV	BALANCING VALVE
C	CENTER LINE
C-1	WATER COOLER/FOUNTAIN
CB-1	CATCH BASIN
CO	CLEANOUT
CV	CHECK VALVE
CW	COLD WATER
DC	DOWNSPOUT COVER
DN	DOWN
DW	DISHWASHER
EC	ELECTRICAL CONTRACTOR
ECO	EXISTING CLEANOUT
ES	EMERGENCY SHOWER/EYEWASH
ET-1	THERMAL EXPANSION TANK
EW	EMERGENCY EYEWASH
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FFH	FREEZE PROOF HYDRANT
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
G	GREASE INTERCEPTOR
GW	GREASE WASTE SANITARY
HB	HOSE BIBB
HCP	HANDICAP
HW	HOT WATER
HWR	HOT WATER RETURN
INV	INVERT ELEVATION
IMB	ICE MAKER BOX
KW	KITCHEN WASTE
L-1	LAVATORY
M	MILLION BTU
MB	MECHANICAL CONTRACTOR
MS-1	MOP SINK
NOT IN CONTRACT	NOT IN CONTRACT
PC	PLUMBING CONTRACTOR
OD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW ROOF LEADER
OW	OIL WASTE SANITARY
OWS	OIL WASTE SEPARATOR
RCP-1	RECIRCULATION PUMP
RD	ROOF DRAIN
RL	ROOF LEADER
S-1	SINK
SA	SHOCK ARRESTOR
SS	SANITARY
SH-1	SHOWER
SD	STORM DRAIN
TD-1	TRENCH DRAIN
TP	TRAP PRIMER
T&P	TEMPERATURE AND PRESSURE
TW	TEMPERED WATER
TYP	TYPICAL
U-1	URINAL
V	VENT
VB	VACUUM BREAKER
VLV	VALVE
VS	VENT STACK
VP	VENT PIPE
VTR	VENT THRU ROOF
W-1	WATER CLOSET
WCO	WALL CLEANOUT
WH-1	WATER HEATER
WP	WASTE PIPE
WS	WASTE STACK

FOOD SERVICE PLUMBING SCHEDULE

TAG	DESCRIPTION	WASTE		VENT	C.W.	H.W.		GAS CONN.	GAS MBH	NOTES/OPTIONS
		DIRECT	INDIRECT			110"	140"			
7	CONVEYOR OVEN, DOUBLE DECK	-	-	-	-	-	-	-	185	2 UNITS
12	HAND SINK	2"	-	1-1/2"	1/2"	1/2"	-	-	-	2 UNITS, PROVIDE MIXING VALVE MV-1
13	1 COMPARTMENT VEGGIE SINK	-	FS	-	1/2"	-	1/2"	-	-	FILTERED WATER, WATER FILTER WF-1 (OPTIPURE FX11+CR) PROVIDED BY OWNER
17	3 COMPARTMENT SINK	-	FS	-	1/2"	-	1/2"	-	-	-

PLUMBING EQUIPMENT NOTES:

- IT SHALL BE THE PLUMBING CONTRACTORS RESPONSIBILITY TO MAKE ALL FINAL CONNECTIONS FROM KITCHEN/BAR EQUIPMENT TO THE PLUMBING MAINS SHOWN ON THIS PLAN.
- THE PLUMBING CONNECTION SCHEDULE ON THIS PLAN RELATES REQUIRED CONNECTIONS TO INDIVIDUAL EQUIPMENT ONLY.
- PLUMBING CONTRACTOR SHALL REFER TO "KITCHEN EQUIPMENT COMPANY" CUT SHEETS FOR ALL ROUTING OF FINAL CONNECTIONS TO EQUIPMENT AND EXACT ROUGH-IN LOCATIONS.
- PLUMBING CONTRACTOR SHALL MOUNT ALL FLOOR SINKS FLUSH WITH FINISHED FLOOR ELEVATION.
- ALL FLOOR DRAINS ARE WASHED BY HOSE BIBBS LOCATED IN BATHROOMS AND KITCHEN.

GAS PIPING NOTES

- GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2021 INTERNATIONAL FUEL GAS CODE AND NFPA STANDARD NO. 54 WHICH APPLY.
- GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA NO 54. ANY OTHER TEST AS REQUIRED BY THE LOCAL GAS INSPECTION DEPARTMENT OR GAS COMPANY SHALL ALSO BE PERFORMED.
- MINIMUM GAS PIPING SIZING SHALL BE 3/4".
- GAS PIPING COLOR/LABELS:
EXTERIOR:
A. LABEL ALL GAS PIPING "GAS/PRESSURE" ON PIPE AT 5'-0" CENTERS.
B. COLOR: ON ROOF PAINT WITH TWO COATS OF YELLOW ENAMEL, ON VERTICAL WALLS PAINT TO MATCH WALL COLOR.
INTERIOR:
A. LABEL ALL GAS PIPING "GAS/PRESSURE", SPACING AND COLOR PER ANSI/ASME A13.1 CODE REQUIREMENTS.
- GAS PIPING SUPPORTS:
EXTERIOR:
A. PIPING ROUTED ON ROOF SHALL BE STRAPPED TO MANUFACTURED SUPPORTS "QUICK-BLOCK" OR EQUAL. GAS SUPPORTS SPACED PER NFPA 54 7.2.5.2.
INTERIOR:
A. PIPING TO BE SUPPORTED BY CLEVIS HANGERS W/ THREADED ROD OR UNI-STRTUT SYSTEM. GAS SUPPORTS SPACED PER NFPA 54 7.2.5.2.
- GAS VALVES SHALL BE ANSI/CSA APPROVED, 125 PSI RATED, 2 PIECE, FULL PORT, BALL VALVES W/BRASS BODY AND BALL. PROVIDE W/ LEVER HANDLE.
- PROVIDE UNIONS, FLANGES OR COUPLINGS AT CONNECTION TO ALL VALVES AND EQUIPMENT. DO NOT USE DIRECT WELDED OR THREADED CONNECTIONS TO VALVES, EQUIPMENT OR OTHER APPARATUS.
- PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
- PROVIDE DIRT LEG, GAS VALVE AND GAS REGULATOR AT EACH PIECE OF EQUIPMENT INSTALLED IN ACCESSIBLE LOCATION WITH-IN 36" OF EQUIPMENT. USE VENT-LESS REGULATORS INDOORS WHEN POSSIBLE. ROUTE VENTED REGULATOR VENTS TO EXTERIOR.

GAS LOAD REQUIREMENTS

TAG	DESCRIPTION	QTY	INPUT MBH	TOTAL MBH
WH-1	WATER HEATER	2	199.9	400
-	PIZZA OVEN	2	185	370
RTU-1	EXISTING ROOFTOP UNIT	1	125	125
RTU-2	ROOFTOP UNIT	1	120	120
TOTAL BUILDING LOAD MBH				1,015

GAS PIPE SIZING

- TABLE: 2021 INTERNATIONAL FUEL GAS CODE TABLE 402.4(2)
- TOTAL GAS INPUT: 1,015 MBH
- INLET PRESSURE: LESS THAN 2.0 PSI
- PRESSURE DROP: 0.5 PSI
- LENGTH: 80 LN/FT
- FITTINGS FACTOR: 20%
- TOTAL EQUIVALENT LENGTH: 96 LN/FT

PIPE SIZE (INCHES)	CAPACITY (MBH)
3/4	104
1	195
1-1/4	400
1-1/2	600
2	1,160

DESIGNER NOTE:

CONTRACTOR TO VERIFY THAT LOCAL WATER HARDNESS IS LESS THAN 3 GRAINS PER GALLON. IF WATER HARDNESS IS GREATER THAN 3 GRAINS PER GALLON, PROVIDE WATER SOFTNER FOR DISHWASHER.

PLUMBING DRAWING SCHEDULE

DRAWING NUMBER	DESCRIPTION
P0.1	SPECIFICATIONS, LEGENDS, & GENERAL NOTES
P0.2	PLUMBING SCHEDULES & DETAILS
P1.1	FLOOR PLANS - PLUMBING

PLUMBING NOTES

- ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2021 INTERNATIONAL PLUMBING CODE AND THE NATIONAL FIRE CODES WHICH APPLY.
- ALL PLUMBING PIPING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL SYSTEM, MECHANICAL SYSTEM AND ELECTRICAL SYSTEM TO INSURE PROPER COMPLIANCE WITH CODES AND INSURE THAT ALL TRADES WILL NOT CONFLICT WITH EACH OTHER.
- IF ANY SUBSTITUTED EQUIPMENT IS SUBMITTED AND APPROVED WITH PLUMBING CONNECTIONS OTHER THAN THAT SHOWN ON THE DRAWINGS AND SCHEDULES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROPER PLUMBING CONNECTIONS TO THIS EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
- ALL CLEANOUTS SHALL HAVE TOPS ESPECIALLY DESIGNED FOR SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC. UNLESS OTHERWISE SPECIFIED.
- ALL FLOOR CLEANOUT, FLOOR DRAIN AND CATCH BASIN TOPS SHALL BE COVERED DURING CONSTRUCTION TO PREVENT DAMAGE.
- VENTS WILL BE COLLECTED ABOVE THE CEILING AND EXTENDED THROUGH THE ROOF AT AS FEW POINTS AS POSSIBLE. VENT PENETRATIONS SHALL AVOID MECHANICAL EQUIPMENT INTAKE AIR LOCATIONS PER CODE REQUIREMENTS.
- EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS OTHERWISE NOTED, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
- PROVIDE ACCESS PANELS AS REQUIRED AT VALVE LOCATIONS TO PROVIDE ACCESS TO CONTROL VALVES. COORDINATE TYPE AND LOCATION WITH GENERAL CONTRACTOR.
- PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT.
- P.C. SHALL PROVIDE A PRESSURE REDUCING VALVE WHERE WATER MAIN ENTERS BUILDING IF PRESSURE EXCEEDS 80 PSI. SET PRV @ 75 PSI.

PIPE LABEL LEGEND

PLAN DESIGNATION	PIPE LABEL
CW	DOMESTIC WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
SS	SANITARY SEWER
G	GAS/PRESSURE

NOTES:

- ALL PIPING WITH THE DESIGNATIONS ABOVE WILL BE LABELED PER ANSI/ASME A13.1 NON-POTABLE SYSTEMS WILL BE LABELED PER IPC SECTION 608.8

SHOCK ARRESTOR TABLE

TAG	PDI WH201 DESIGNATION	FIXTURE UNITS	SELECTION BASED ON		REMARKS
			MANUFACTURER	MODEL NUMBER	
SA#1	AA	1-3	SIoux CHIEF	660	NOTE 1
SA#2	A	4-11	SIoux CHIEF	652-A	NOTE 1
SA#3	B	12-32	SIoux CHIEF	653-B	NOTE 1
SA#4	C	33-60	SIoux CHIEF	654-C	NOTE 1
SA#5	D	61-113	SIoux CHIEF	655-D	NOTE 1

NOTES:
1. INSTALL ARRESTORS PER PDI WH201 AND MANUFACTURERS REQUIREMENTS.



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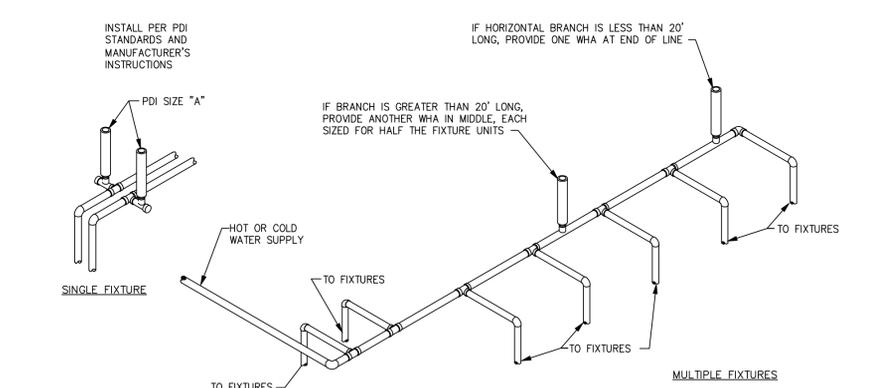
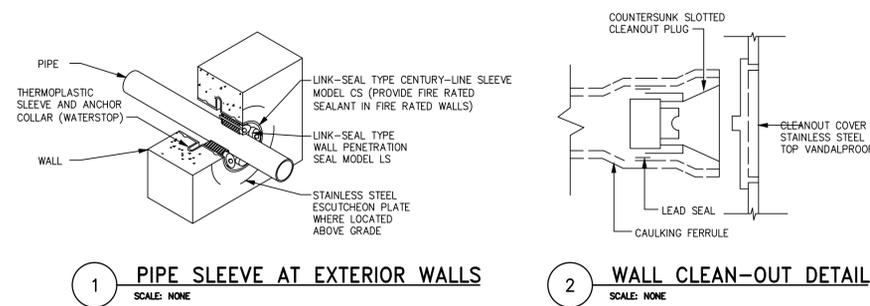
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REVISIONS:

NO.	DATE	DESCRIPTION	BY
-----	------	-------------	----

FRANCHISEE NAME:

PLUMBING FIXTURE SCHEDULE							
TAG	FIXTURE TYPE	DESCRIPTION	SERVICE CONNECTIONS				REMARKS
			SAN	VENT	HW	CW	
W-1	BARRIER-FREE WATER CLOSET TANK-TYPE	WATER CLOSET SHALL BE EQUAL TO AMERICAN STANDARD MODEL #2467.100, WHITE, VITREOUS CHINA, ELONGATED BOWL, TANK TYPE, 1.1 GPF, FLOOR MOUNTED, BOTTOM OUTLET, 12" ROUGH-IN. SEAT SHALL BE EQUAL TO CHURCH MODEL #9500SSCT, ELONGATED WHITE OPEN FRONT SEAT LESS COVER. WATER CLOSET SHALL BE PROVIDED WITH CHROME PLATED SUPPLY WITH LOOSE KEY STOP EQUAL TO MCGUIRE #172.	3"	2"	-	1/2"	FIXTURE RIM TO FINISHED FLOOR MOUNTING HEIGHT SHALL BE 17". LOCATE FLUSH LEVER ON WIDE SIDE OF STALL.
L-1	BARRIER-FREE LAVATORY WALL HUNG	LAVATORY SHALL BE EQUAL TO AMERICAN STANDARD "LUCERNE" MODEL #355.012.020, VITREOUS CHINA, WALL HUNG, THREE HOLE PUNCH, 4" CENTERS, CONCEALED WALL HANGER, PROVIDE FAUCET EQUAL TO AMERICAN STANDARD MODEL #2275.503 CENTERSET FAUCET WITH LEVER HANDLES, 0.5 GPM AERATOR. PROVIDE LAVATORY COMPLETE WITH GRID DRAIN, PREWRAPPED INSULATED, CAST BRASS, OFFSET TAILPIECE AND P-TRAP WITH CLEANOUT (EQUAL TO MCGUIRE #PW2150WC) AND CHROME PLATED SUPPLIES (EQUAL TO MCGUIRE #175).	2"	1 1/2"	1/2"	1/2"	
MS-1	MOP SINK	SINK SHALL BE EQUAL TO FLORESTONE MODEL #90, 36"x36"x12", PRECAST TERRAZZO WITH 6" DROP FRONT, PROVIDE FAUCET EQUAL TO DELTA MODEL #2879, INTEGRAL STOPS, VACUUM BREAKER, PAUL HOOK, THREADED SPOUT, AND LEVER HANDLES. PROVIDE SINK COMPLETE WITH MOP HANGER, HOSE WITH BRACKET, AND P-TRAP.	3"	1 1/2"	3/4"	3/4"	PROVIDE CHECK VALVE STOPS ON HW & CW SUPPLIES WITH ACCESS DOOR ABOVE FAUCET.
AAV	AIR ADMITTANCE VALVE	AIR ADMITTANCE VALVE SHALL BE EQUAL TO STUDDOR VENT MODEL #MAXI-VENT OR EQUAL.	SEE DWGS.	-	-	-	
HD	HUB DRAIN	HUB DRAIN SHALL BE EQUAL TO ZURN MODEL #ZN-415 WITH TYPE "Y" STRAINER.	SEE DWGS.	-	-	-	
FD	FLOOR DRAIN	FLOOR DRAIN SHALL BE EQUAL TO ZURN MODEL #ZS-415 TYPE "B" 6" SQUARE POLISHED BRONZE STRAINER, SEDIMENT BUCKET, VANDAL PROOF & TRAP PRIMER CONNECTION, DEEP SEAL P-TRAP.	SEE DWGS.	-	-	-	PROVIDE TRAP GUARD CONNECTION AS REQUIRED.
FS	FLOOR SINK	FLOOR SINK SHALL BE EQUAL TO ZURN MODEL #D2376-T, 3/4 GRATE, PROVIDE FLOOR SINK WITH P-TRAP.	SEE DWGS.	-	-	-	PROVIDE TRAP PRIMER CONNECTION AS REQUIRED.
FCO	FLOOR CLEANOUT	FLOOR CLEANOUT SHALL BE EQUAL TO ZURN MODEL #ZS-1400-VP. CLEANOUT.	SEE DWGS.	-	-	-	GAS/WATER TIGHT ABS PLUG
TP	TRAP PRIMER	TRAP PRIMER SHALL BE EQUAL TO ZURN MODEL #Z1021 WATER SAVER, P-TRAP PRIMER.	SEE DWGS.	-	-	-	
WCO	WALL CLEANOUT	WALL CLEANOUT SHALL BE EQUAL TO ZURN MODEL #ZS-1468, ACCESS COVER AND PLUG.	SEE DWGS.	-	-	-	GAS/WATER TIGHT ABS PLUG
CCO	CLEANOUT TO GRADE	CLEANOUT TO GRADE SHALL BE EQUAL TO ZURN MODEL #ZS-1400. PROVIDE CLEANOUT IN 18"x18"x6" CONCRETE PAD.	SEE DWGS.	-	-	-	GAS/WATER TIGHT ABS PLUG



PLUMBING CONTRACTOR SHALL PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

GAS WATER HEATER SCHEDULE												
TAG	DESCRIPTION	GAS BURNER DATA					UNIT TOTAL	RECOVERY GPM TOTAL	FLUE SIZE TYPE	SELECTION BASED ON		REMARKS/OPTIONS
		GAS TYPE	INLET PRESSURE	GALLONS STORAGE	MBH INPUT	RECOVERY GPM/RISE				MANUFACTURER	MODEL NUMBER	
WH-1	BUILDING	X	7" WC	0	199	2	8.4	3" PVC	RINNAI	CU199N	NOTE 1, B,C,D,F	

OPTIONS (ALL UNITS)

- CODE APPROVED VACUUM BREAKER, TEMPERATURE/PRESSURE RELIEF VALVE AND INTERNAL OR FIELD SUPPLIED HEAT TRAPS.
- THERMAL EXPANSION TANK ON CW MAKE-UP. SEE TANK SCHEDULE.
- SERVICE BALL VALVES ON HW/CW MAINS

ADDITIONAL OPTIONS (UNITS AS NOTED)

- A: CONCENTRIC VENT KIT FOR EACH HEATER. INSTALL PER MANUFACTURER'S REQUIREMENTS.
- B: WATER HEATER ASSEMBLIES ARE MANIFOLDED TOGETHER - PROVIDE PIPING MANIFOLDS.
- C: PROVIDE CONDENSATE NEUTRALIZATION KIT ON CONDENSATE DISCHARGE LINE.
- D: WATER HEATERS SUPPLYING KITCHENS SHALL BE N.S.F. APPROVED.
- E: ELECTRONIC IGNITION CONTROLS (120V/16/60). COORDINATE WITH E.C
- F: POWERED EXHAUST/ELECTRONIC IGNITION (120V/16/60) COORDINATE WITH E.C.

NOTES:

- INSTALL WATER HEATER PER MANUFACTURERS REQUIREMENTS. COORDINATE ALL CONNECTION POINTS IN THE FIELD.

EXPANSION TANK SCHEDULE							
TAG	DESCRIPTION	VOLUME (GALLONS)	DIAMETER (INCHES)	HEIGHT (INCHES)	SELECTION BASED ON		REMARKS
					MANUFACTURER	MODEL NUMBER	
ET-1	BLADDER TYPE	2.0	8"	12 1/2"	AMTROL	ST-5	NOTE 1

NOTES:

- INSTALL EXPANSION TANK ON IN-COMING COLD WATER PER MANUFACTURERS REQUIREMENTS.

PUMP SCHEDULE											
TAG	DESCRIPTION	TYPE	CAPACITY			ELECTRICAL DATA			SELECTION BASED ON		REMARKS/OPTIONS
			GPM	HEAD (FT.)	HP	V	PH	HZ	MANUFACTURER	MODEL NUMBER	
RCP-1	HOT WATER RECIRC. PUMP	IN-LINE	2.0	17	1/12	120	1	60	BELL & GOSSETT	PL-30-B	NOTE 1,2

OPTIONS (ALL RCP UNITS)

- AQUA-STAT & NIGHT TIMER
- FLANGED PUMP
- BALANCING VALVE & CHECK VALVE
- MAINTENANCE BALL VALVES ON BOTH SIDES OF PUMP

ADDITIONAL OPTIONS (UNITS AS NOTED)

- 30"x30"x30" BASIN BY G.C.
- DISCHARGE CHECK VALVE
- DISCHARGE BALL VALVE
-

NOTES:

- SET AQUA-STAT WITH SET POINT 10 DEGREES BELOW SYSTEM SUPPLY TEMP.
- INSTALL RECIRCULATION PUMP PER MANUFACTURERS REQUIREMENTS.

MIXING VALVE SCHEDULE							
TAG	DESCRIPTION	MAXIMUM GPM	MINIMUM GPM	PRESSURE LOSS	SELECTION BASED ON		REMARKS/OPTIONS
					MANUFACTURER	MODEL NUMBER	
MV-1	THERMOSTATIC MIXING VALVE	3.5	.25	5	LEONARD	270-LF	NOTE 1, A

OPTIONS (ALL UNITS)

- LEAD FREE NSF APPROVED
- PROVIDE T'STAT ON TEMPERED LINE

ADDITIONAL OPTIONS (UNITS AS NOTED)

- ASSE 1070 APPROVED, SET @ 100° F. 1/2" INLETS / 1/2" OUTLET, MOUNT BELOW FIXTURE

NOTES:

- INSTALL MIXING VALVE PER MANUFACTURERS REQUIREMENTS. PROVIDE ALL PIPING AND VALVES PER O&M MANUAL.

INTERCEPTOR SCHEDULE										
TAG	DESCRIPTION	INLET/OUTLET SIZE (INCHES)	FLOW RATE (GPM)	CAPACITY				SELECTION BASED ON		REMARKS/OPTIONS
				WATER (GAL)	GREASE (LBS)	SOLIDS (CU/FT)	OIL (GAL)	MANUFACTURER	MODEL NUMBER	
GI-1	GREASE INTERCEPTOR	4	50	65	439.5	13	-	SCHIER	GB-50	NOTE 1

OPTIONS (ALL UNITS)

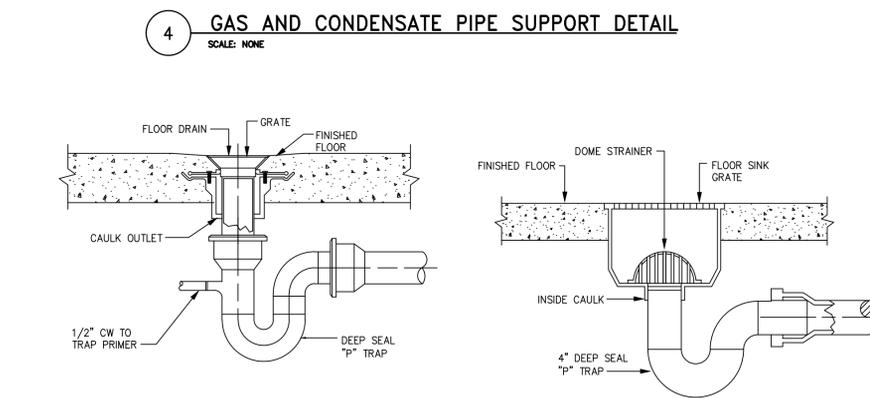
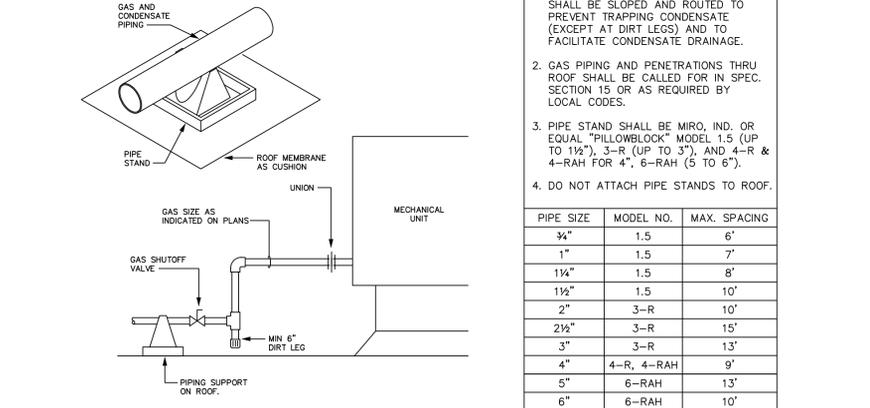
- DISCHARGE BACKWATER VALVE IN SEPARATE VALVE BOX
-

ADDITIONAL OPTIONS (UNITS AS NOTED)

- A: NEMA 4X ALARM PANEL, SEE NOTE #2. SINGLE POINT ELECTRICAL CONNECTION
- B: PROVIDE H-20 TRAFFIC RATED RELIEVING SLAB PER MANUFACTURERS REQUIREMENTS.
- C: PROVIDE EXTERNAL, VENTED FLOW CONTROL @ SCHEDULED FLOW RATE.
- D: MOUNT ON FLOOR, TERMINATE WASTE LINE TO FLOOR SINK W/ AIR GAP.

NOTES:

- INSTALL INTERCEPTOR PER MANUFACTURERS REQUIREMENTS. COORDINATE ALL CONNECTION POINTS IN THE FIELD.
- PROVIDE SCHIER MODEL S.V10 GREASE WASTE SAMPLING PORT.



SPECIFICATION AND SUBMITTAL

GB-50

50 GPM Great Basin™ Indoor/Outdoor Grease Interceptor

Standard

Location: indoor/outdoor
 Installation: Above/below grade
 Flow Rate / Grease Capacity: 50 GPM (3.2 l/s) / 439.5 lbs (199 kg), 60 gal (227 l)
 Removal Efficiency at the Inlet: 95%
 Solids Capacity: 13 gal (49 l)
 Liquid Capacity: 65 gal (246 l)
 Weight: 155 lbs (69 kg)
 Connections: 4" FPT with 4" plain end adaptors, single inlet and trap-out
 Covers: Cast iron cover, pickable 24" gas/water tight, 120V/16/60 rated, proof tested to 40,000 lbs.
 Access Restrictor: Safety Star™ (450 lb. rating) built into cover adaptor

Options

- 4" FPT with 3" plain end adaptors, single inlet and triple outlet
- FO (fixed outlet)
- C242 Composite cover, bolted 24" gas/water tight, traffic load rated for 8,000 lbs.

Accessories

- FR2 1/4" - 3/4" field out riser
- FR2 (L) 3/4" - 64" field out risers
- FR2 (L) 1/4" - 64" field out risers
- CAZ Adaptor for 3/4" corrugated pipe riser
- PP8 Pumpout port
- AK3 High water anchor kit
- ATD Cover adaptor (up-down fit)
- PLAIN-EA-24 2" plain end fitting
- FPT-EA-34 4" x 3" FPT fitting
- FPT-EA-23 3" x 2" FPT fitting
- C22 integral membrane clamping collar kit

Submittal

Adaptable cover adaptors provide up to 4' of additional height.
 This unit is certified to ASSE A134.3 (Type D) and CSA B481.1. This unit does not require flow control.

Approval

Signature: _____ Date: _____ Company: _____
 Specifying Engineer: _____ Engineering Firm: _____

SCHIER MODEL: GB-50 DESCRIPTION: 50 GPM Polyethylene Grease Interceptor
 PART # 4025-050-01 DWG BY: S. Kerner DATE: 8/28/2020 REV: 1 ECD
 1901 Woodland Road | Independence, KS 67311 | 913-941-2000 | info@schier.com © Copyright 2020 Schier Products Company page 1 of 4

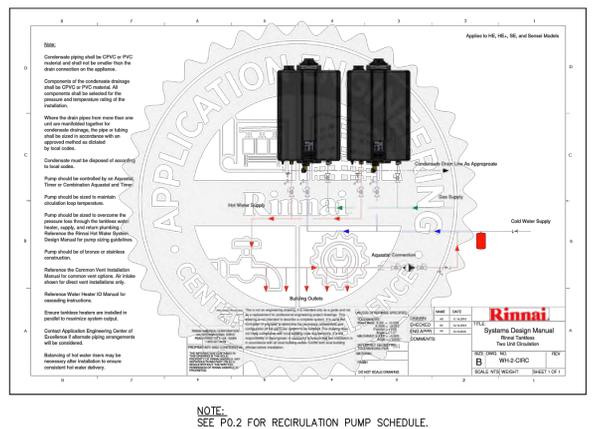
GREASE INTERCEPTOR CALCULATIONS Quote: 2X1FDBC
 Reference No. 73625 Project Name: Marco's Pizza- Thornton, CO (6077)

Step 1: Flow rate to grease interceptor
 Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
3 Comp	3 Compartment Sink	16" x 20" x 12" (3)	1	11,520	18.7 GPM
Floor Drain	Floor Drain	N/A	2	N/A	0 GPM
Hand Sink	Hand Sink	10" x 14" x 6"	2	1,680	2.72 GPM
Mop Sink	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
Prep Sink	Pre-Rinse Sink One Bowl	16" x 18" x 12"	1	3,456	5.61 GPM
Total					36.39 GPM

Step 2: Grease Production
 Servings per day x Grease production value x Days between pump-outs = Grease output
 Servings per day: 350
 Grease production value: 0.005 lbs per serving (Pizza Carryout: Low / No flatware)
 Days between pump-outs: 90 days
 350 x 0.005 x 90 = 157.5 lbs of FOG

SCHIER MODEL GB-50 Description: GREASE INTERCEPTOR 50 GPM / 75 GPM, 4" PLAIN/FPT CONNECTIONS, H-20 RATED PICKABLE CAST IRON COVER
 Dimensions: Length: 37", Width: 32.25", Height: 28.5"
 Flow Rate/Grease Capacity: 50 GPM / 439 lbs
 Liquid Capacity: 65 gal



GERALD P. NOE ARCHITECT
 COLORADO REGISTRATION NO. 401357

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10/8/24

REVISIONS:

NO.	DATE	DESCRIPTION	BY
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FRANCHISEE NAME:
 SINGH CHEESE, LLC

HARMAN SINGH
 6038 LYNX CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME:
 6077



HIGH POINT RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:

PLUMBING SCHEDULES & DETAILS

PROJECT NUMBER 24102

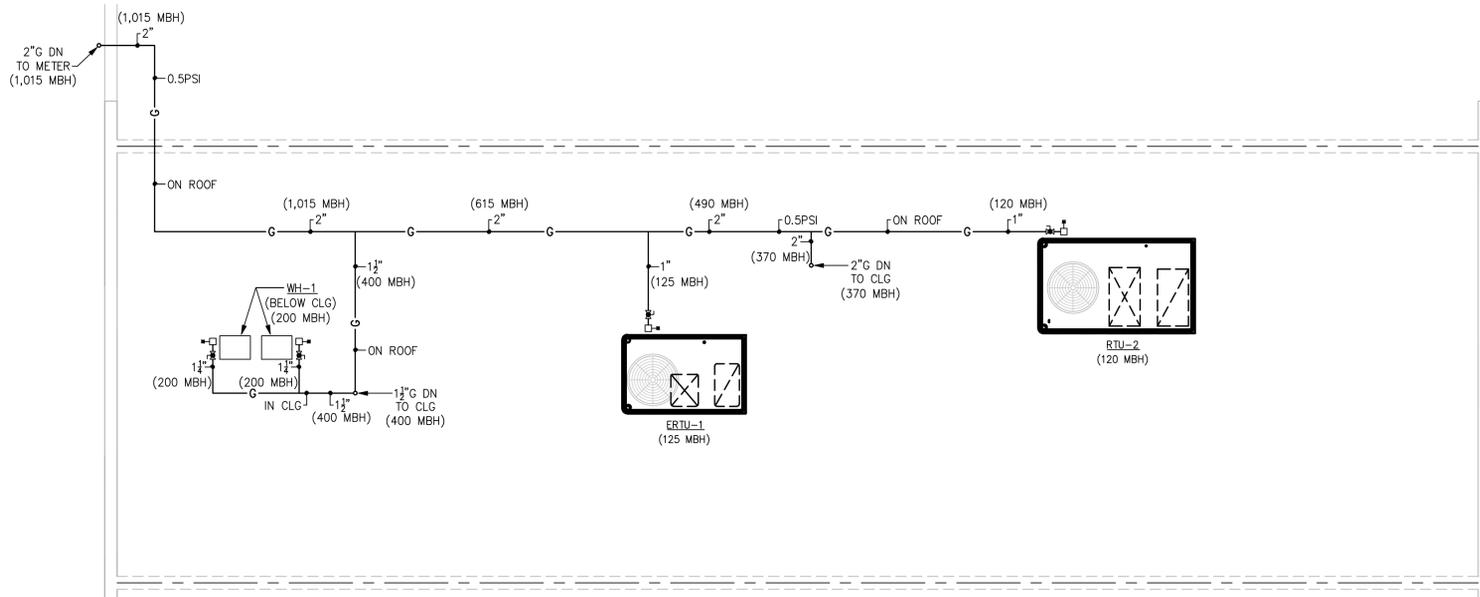
DATE 10-08-2024

SHEET NO.

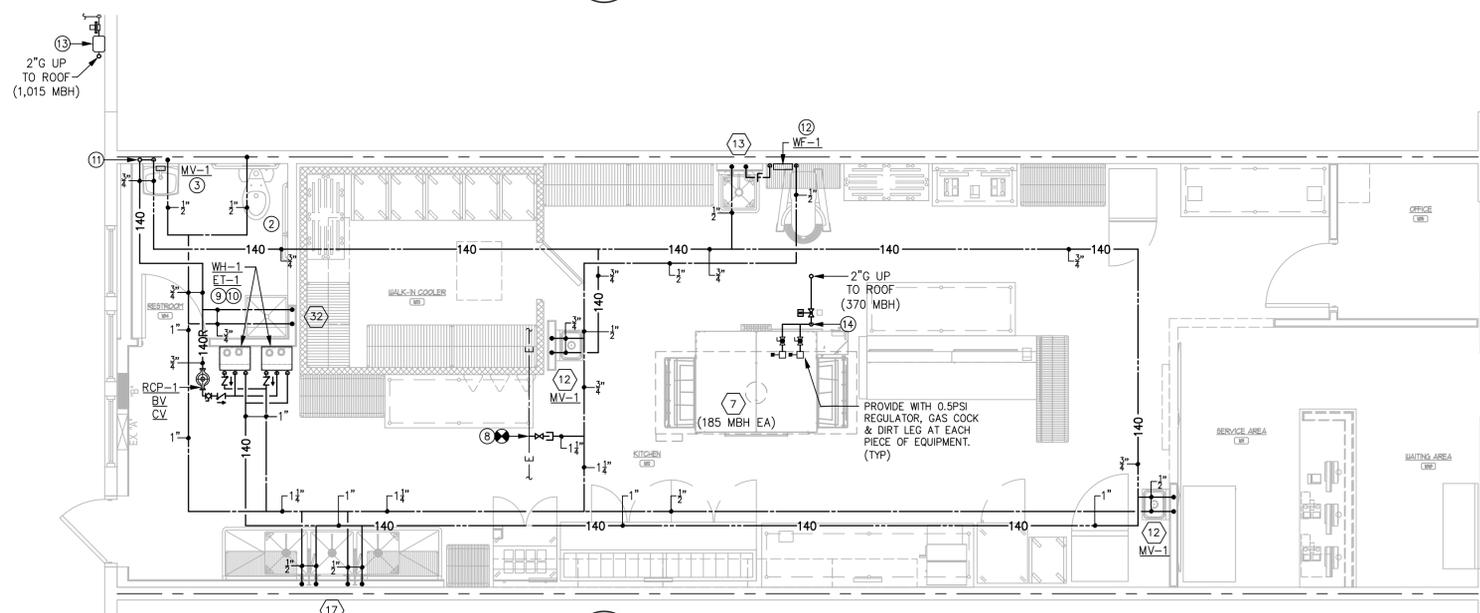
P.0.2

SHEET 2 OF 3

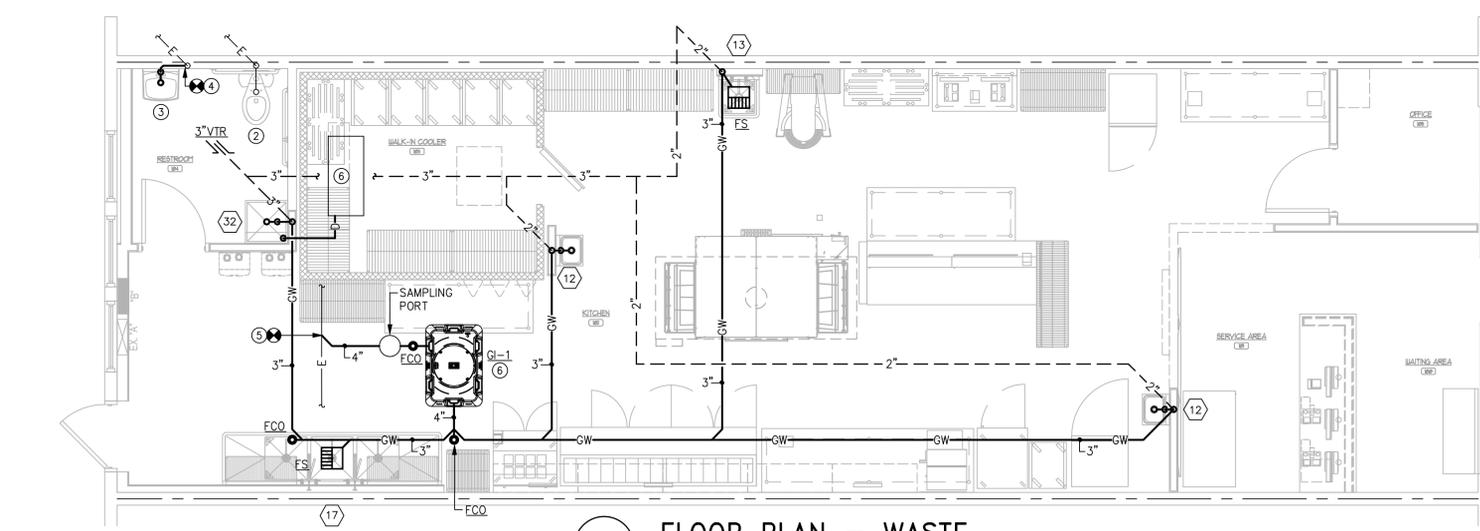
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3 ROOF PLAN - GAS
1/4" = 1'-0"



2 FLOOR PLAN - WATER
1/4" = 1'-0"



1 FLOOR PLAN - WASTE
1/4" = 1'-0"

NOTES THIS SHEET

- ① SEE SHEETS P0.1 - P0.2 FOR SCHEDULES, DETAILS AND SPECIFICATIONS.
- ② EXISTING PLUMBING FIXTURES TO REMAIN. PROVIDE OWNER WITH LIST OF REPAIRS OR REPLACEMENTS REQUIRED TO BRING FIXTURES UP TO PROPER OPERATION.
- ③ EXISTING PLUMBING FIXTURES TO BE RELOCATED. PROVIDE OWNER WITH LIST OF REPAIRS OR REPLACEMENTS REQUIRED TO BRING FIXTURES UP TO PROPER OPERATION.
- ④ THE NEW SANITARY SEWER LINE INTO EXISTING SANITARY SEWER RISER AT FORMER LAVATORY. FIELD VERIFY EXACT LOCATION, INVERT ELEVATION AND FLOW DIRECTION PRIOR TO CONSTRUCTION. ADJUST THE NEW WASTE LINE AS REQUIRED TO ALLOW FOR CONNECTION TO THE EXISTING SANITARY SEWER SYSTEM. MAINTAIN CODE MINIMUM PIPE SLOPES.
- ⑤ THE NEW SANITARY SEWER LINE INTO EXISTING SANITARY SEWER LINE OF EQUAL OR LARGER SIZE. FIELD VERIFY EXACT LOCATION, INVERT ELEVATION AND FLOW DIRECTION PRIOR TO CONSTRUCTION. ADJUST THE NEW WASTE LINE AS REQUIRED TO ALLOW FOR CONNECTION TO THE EXISTING SANITARY SEWER SYSTEM. MAINTAIN CODE MINIMUM PIPE SLOPES.
- ⑥ INSTALL GREASE INTERCEPTOR GI-1 AND SAMPLING PORT. CONTRACTOR TO INSTALL PER ALL APPLICABLE CODES AND REGULATIONS. PROVIDE SEALED WATER TIGHT MANHOLE COVER.
- ⑦ ROUTE CONDENSATE FROM EQUIPMENT TO MOP SINK WITH A CODE APPROVED AIR GAP. CONNECT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL THE PIPING AS HIGH AS POSSIBLE AND COORDINATE ROUTING WITH OTHER TRADES. CONDENSATE SHALL NOT BE RUN OVER ELECTRICAL EQUIPMENT.
- ⑧ THE NEW 1/2" DOMESTIC WATER LINE INTO EXISTING DOMESTIC WATER OF EQUAL OR LARGER SIZE. FIELD VERIFY EXACT LOCATION, INVERT ELEVATION AND FLOW DIRECTION PRIOR TO CONSTRUCTION. ADJUST THE NEW DOMESTIC WATER LINE AS REQUIRED TO ALLOW FOR CONNECTION TO THE EXISTING DOMESTIC WATER SYSTEM.
- ⑨ INSTALL TANKLESS WATER HEATER ON WALL AS INDICATED ON THE PLANS. REFER TO ARCHITECTURAL PLANS FOR EXACT WATER HEATER LOCATION. PIPE WATER HEATER CONDENSATE TO THE MOP SINK BELOW THE WATER HEATER IN ACCORDANCE WITH LOCAL REQUIREMENTS. PROVIDE A CODE APPROVED AIR GAP ON THE CONDENSATE DISCHARGE.
- ⑩ INSTALL CONCENTRIC VENT TO THE ROOF. INSTALL VENT TERMINAL AND MESH WIRE SCREEN ON CONCENTRIC VENT. THE TERMINATIONS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.
- ⑪ ROUTE HW LINE DN IN WALL TO 18" AFF. ROUTE BEHIND LAVATORY AND TURN BACK UP TO ABOVE CEILING.
- ⑫ COORDINATE MOUNTING HEIGHT OF WF-1 WITH OWNER PRIOR TO ROUGH-IN. LOCATE WATER FILTER OVER 1-COMPARTMENT SINK.
- ⑬ EXISTING GAS METER BY UTILITY COMPANY. THE NEW GAS LINE INTO EXISTING GAS METER. SEE SHEET P0.1 FOR TOTAL GAS DEMAND. PLUMBING CONTRACTOR SHALL COORDINATE METER LOCATION AND PRESSURE WITH THE LOCAL UTILITY PRIOR TO CONSTRUCTION. IF THE DELIVERY PRESSURE INDICATED IS NOT AVAILABLE, THE PLUMBING CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- ⑭ INSTALL GAS SOLENOID VALVE (NO) ABOVE CEILING. TIE VALVE INTO HOOD FIRE SUPPRESSION SYSTEM. VALVE SHALL CLOSE UPON HOOD SUPPRESSION ACTIVATION. PROVIDE MANUAL RESET.



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10/8/24

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NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
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HARMAN SINGH
6038 LYNX CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:
6077



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

FLOOR PLANS -
PLUMBING

PROJECT NUMBER 24102

DATE 10-08-2024

SHEET NO.

P1.1

SHEET 3 OF 3

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.



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10/9/24

REVISIONS:

NO.	DATE	DESCRIPTION	BY

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FREDERICK, COLORADO 80516

PROJECT NAME: 6077



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

MECHANICAL SPECIFICATIONS

PROJECT NUMBER 24102

DATE 10-08-2024

SHEET NO.

MO.1

SHEET 1 OF 4

MECHANICAL SPECIFICATIONS

HVAC GENERAL
REFER TO ALL OTHER DRAWINGS AND SPECIFICATIONS, AND BE RESPONSIBLE FOR ALL APPLICABLE PROVISIONS THEREIN. FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, NFPA 90A, AND THE BUILDING REGULATIONS. ATTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES. EQUIPMENT AND MATERIALS SHALL BE NEW UNLESS OTHERWISE SPECIFIED. MECHANICAL CONTRACTOR SHALL BE LICENSED TO HANDLE CFC REFRIGERANTS.

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY FITTING, OFFSET, DROP AND RISE OF RUNS, AND DETAIL. INSTALL DUCTS, EQUIPMENT, AND CONTROLS IN A NEAT, WORKMANLIKE MANNER AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE, WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK; MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. DRAWINGS INDICATE LOCATIONS OF FIXTURES, APPARATUS, DUCTWORK, AND PIPING; WHILE THESE ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS NECESSARY TO CHANGE THE LOCATION OF SOME TO ACCOMMODATE BUILDING CONDITIONS, MAKE CHANGES WITHOUT ADDITIONAL COST TO THE OWNER AND AS APPROVED BY THE ARCHITECT. PROVIDE ADEQUATE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE, OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM. DO NOT RUN PIPING OR DUCTWORK, OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS) WITHIN 42 INCHES IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36 INCHES HORIZONTALLY OF SAME SPACE.

EXISTING CONDITIONS
CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE JOB CONDITIONS BEFORE SUBMITTING HIS PROPOSAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITIES SERVICES PRIOR TO SUBMITTING HIS PROPOSAL. NO CONSIDERATION WILL BE GIVEN TO CLAIMS FOR EXTRA COST ARISING FROM CONTRACTOR'S FAILURE TO BE FULLY COGNIZANT OF JOB OR SITE CONDITIONS EXISTING AT TIME OF ACCEPTANCE OF BID.

IF, DURING THIS INSPECTION, THE CONTRACTOR FINDS ANY OBSTRUCTION OR INTERFERENCE THAT MAY PROHIBIT THE PROPER INSTALLATION OF HIS WORK, HE IS TO MAKE IT KNOWN TO THE BUILDING MANAGEMENT AND/OR OWNER AND TENANT BEFORE AND AT THE TIME OF SUBMITTING HIS PROPOSAL.

BY SUBMISSION OF THE BID, IT IS UNDERSTOOD THAT SUCH INSPECTION HAS BEEN MADE AND INCLUDES ALL THE MATERIALS AND REQUIRED RELOCATION FOR ALL WORK.

ACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, OR SUPPORT EXISTING ACTIVE SEWERS, GAS, AND OTHER SERVICES REQUIRED FOR PROPER EXECUTION OF WORK. IF EXISTING ACTIVE SERVICES ARE ENCOUNTERED THAT REQUIRE RELOCATION, RELOCATE AS APPROVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN.

INACTIVE SERVICES: WHEN ENCOUNTERED IN WORK, REMOVE, CAP, OR PLUG INACTIVE SERVICES, AS INDICATED. OPENINGS IN THE DUCTWORK SHALL BE PATCHED WITH SHEET METAL, SEALED AIRTIGHT WITH DUCT SEALANT, AND RE-INSULATED.

INTERRUPTION OF SERVICES: WHERE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT, OR AT SUCH TIMES AS APPROVED BY OWNER AND THE BUILDING MANAGEMENT WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE WORK TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTION TO EXISTING WORK.

WHERE EXISTING WALLS, CEILING, FLOORS, ETC., ARE CUT OR OTHERWISE DAMAGED DURING CONSTRUCTION, REPAIR ALL SURFACES TO THEIR ORIGINAL CONDITION.

COORDINATION
COORDINATE ALL WORK UNDER THIS DIVISION WITH THE WORK UNDER OTHER DIVISIONS. PROVIDE ADJUSTMENTS AS NECESSARY. EQUIPMENT, APPARATUS, DUCTWORK, PIPING, ETC., INSTALLED WITHOUT REGARD FOR THE SPEC REQUIREMENTS OR OTHER TRADES WILL BE REWORKED AT THE EXPENSE OF THE INSTALLING SUBCONTRACTOR IF IT CREATES AN UNNECESSARY HINDERANCE TO THE INSTALLATION OF ANOTHER TRADE'S WORK. ALL ITEMS MOUNTED OR BELOW THE CEILING, AND ANY ITEM PENETRATING THE CEILING, SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

PROTECTION OF WORK DURING CONSTRUCTION
PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DEGRADATION DURING CONSTRUCTION. PROTECT EXPOSED COILS WITH PLYWOOD OR OTHER SUITABLE RIGID COVERS TO AVOID DAMAGE TO FINS.

CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING OR CONTROL TUBING FOR ADJACENT TENANTS. ANY DAMAGE SHALL BE REPAIRED WITH THE SAME MATERIALS AS THE CONTRACTOR'S COST.

PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE. ANY DAMAGE SHALL BE REPAIRED USING THE SAME MATERIALS AS THE CONTRACTOR'S COST.

TEST AND BALANCE
TEST AND BALANCE HVAC AIR SYSTEMS TO WITHIN +10%, -5% OF DESIGN FLOW.

CHECK ALL FANS, INSTRUMENTATION DEVICES, CONTROL DEVICES, DAMPERS, ETC., FOR PROPER OPERATION AND CALIBRATION. REPORT DEFICIENCIES THAT CANNOT BE CORRECTED, MARK AND LOCK DAMPER AT THEIR PROPER POSITION. ADJUST FANS FOR THE CFM SHOWN ON THE FLOOR PLAN.

ADJUST, TEST AND CONFIRM DESIGN AIR FLOW RATES, PRESSURES, TEMPERATURES, AIR QUANTITIES, EQUIPMENT SPEED, AND MOTOR AMPERAGES FOR EACH SEGMENT BRANCH AND COMPONENT OF EACH SYSTEM.

VERIFY THAT DIFFUSER DISCHARGE PATTERNS HAVE BEEN PROPERLY SET. AIR FLOWS SHALL BE BALANCED WITH THE VOLUME DAMPERS INSTALLED IN BRANCH DUCTWORK. OPPOSED BLADE DAMPERS (OBD) IN THE DIFFUSERS SHALL BE SET IN THE FULLY OPEN POSITION DURING BALANCING. AFTER THE MAIN SYSTEM IS BALANCED WITHIN LIMITS SPECIFIED ABOVE, OBD CAN BE USED FOR MINOR ADJUSTMENT.

SET MAXIMUM AND MINIMUM CFM. SET POINTS ON ALL NEW AND EXISTING VAV BOXES AND POWER INDUCTION UNITS (PIU) PER DESIGN CFM NOTED ON PLANS.

DETERMINE REQUIRED MINIMUM STATIC PRESSURE SET POINT OF BASE BUILDING AIR HANDLING UNIT(S) TO ENSURE THAT DESIGN ARE ATTAINED. INFORM BUILDING OPERATOR OF THIS REQUIRED SETTING.

ADJUSTMENTS AND TESTS SHALL BE MADE UNDER SIMULATED MAXIMUM LOAD CONDITIONS.

THE MECHANICAL CONTRACTOR SHALL PERFORM THE TEST AND PROVIDE REPORT(S) FOR REVIEW TO THE ARCHITECT/ENGINEER AT THE COMPLETION OF THE JOB. WORK SHALL BE PERFORMED AND FORM SUBMITTED IN ACCORDANCE WITH THE GUIDELINES ON ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).

THE MECHANICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, PERSONNEL, AND A COPY OF THE TEST AND BALANCE REPORT AT THE ENGINEER'S FINAL INSPECTION FOR SPOT-CHECKING. ANY SYSTEM FOUND IMPROPERLY BALANCED OR NOT IN AGREEMENT WITH THE REPORT SHALL BE RE-BALANCED AND A REVISED REPORT SHALL BE SUBMITTED.

THE MECHANICAL CONTRACTOR SHALL PERFORM A "COMFORT" BALANCE 45 DAYS AFTER TENANT MOVES IN.

RECORD DRAWINGS
UPON COMPLETION OF PROJECT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF REPRODUCIBLE DRAWINGS REFLECTING THE "AS BUILT" CONDITION OF THE MECHANICAL SYSTEMS.

OPERATING AND MAINTENANCE MANUALS
MECHANICAL CONTRACTOR SHALL SUBMIT OPERATING AND MAINTENANCE MANUALS UPON COMPLETION OF THE PROJECT. MANUALS TO BE IN ACCORDANCE WITH SECTION 503.2.9.2 OF THE CURRENT LOCALLY ADOPTED ENERGY CONSERVATION CODE.

GUARANTEE
MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR ONE YEAR. PROVIDE ADDITIONAL FOUR-YEAR WARRANTY ON ALL COMPRESSORS.

SLEEVES
SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH WALLS, FLOORS, AND ROOFS; IRON PIPES PASSING THROUGH MASONRY WALL MAY BE BUILT INTO THE WALL. SLEEVES SHALL BE STANDARD WEIGHT STEEL PIPE, EXCEPT SLEEVES FOR CONCEALED PIPING THROUGH FLOORS NOT IN STRUCTURAL MEMBERS; THEY MAY BE 25 GAUGE GALVANIZED SHEET METAL. FLOOR SLEEVES FOR PIPING SHALL EXTEND FROM THE BOTTOM OF THE SLAB TO 2 INCHES ABOVE THE FINISHED FLOOR. WALL SLEEVES SHALL BE FULL THICKNESS OF WALLS. SEAL BETWEEN PIPING AND SLEEVE WITH FIRE-RATED CAULK AT ALL PENETRATIONS OF FIRE-RATED WALLS, PARTITIONS OR FLOORS. MAKE SLEEVES THROUGH OUTSIDE WALLS WATERIGHT. CAULK BETWEEN UN-INSULATED PIPE AND SLEEVE. SIZE SLEEVES FOR INSULATED PIPES TO ALLOW FULL THICKNESS INSULATION.

ELECTRICAL WORK
ALL ELECTRICAL WORK AND INSTALLATION PROVIDED UNDER THIS DIVISION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND THE REQUIREMENTS OF DIVISION 16. ALL POWER WIRING AND FINAL POWER CONNECTIONS TO THE SYSTEM SHALL BE PROVIDED UNDER DIVISION 16. CONTROL WIRING (120V AND LESS) SHALL BE PROVIDED UNDER DIVISION 15 AND EXTENDED FROM THE 120V POWER CIRCUITS INDICATED ON THE ELECTRICAL DRAWINGS. ALL WIRING FOR VOLTAGES HIGHER THAN 30 VOLTS SHALL BE DONE BY A LICENSED ELECTRICIAN. ALL ELECTRICAL CHARACTERISTICS SHALL BE TAKEN FROM THE ELECTRICAL DRAWINGS AND SPECIFICATIONS AND COORDINATED BEFORE EQUIPMENT IS ORDERED OR SUBMITTED. ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM-RATED CABLE OR IN CONDUIT.

MOTORS AND STARTERS
PROVIDE MOTORS, STARTERS, PUSH BUTTONS, THERMAL OVERLOAD SWITCHES, AND CONTACTORS FOR EQUIPMENT COVERED HEREIN, UNLESS OTHERWISE SPECIFIED. INSTALLATION OF STARTERS, PUSH BUTTONS, THERMAL OVERLOAD SWITCHES, AND CONTACTORS (NOT FACTORY-INSTALLED) IS SPECIFIED UNDER ANOTHER DIVISION.

UNLESS OTHERWISE SPECIFIED, PROVIDE EACH MOTOR 1/2 HP AND LARGER WITH A MAGNETIC STARTER PROVIDING OVERLOAD AND LOW VOLTAGE PROTECTION. PROVIDE A CONTROL VOLTAGE TRANSFORMER IN EACH STARTER.

A HAND-OFF-AUTO SWITCH WITH PILOT LIGHT SHALL BE MOUNTED ON THE FACE OF EACH STARTER.

EQUIPMENT IDENTIFICATION
PROVIDE LABELS FOR EACH EQUIPMENT, STARTER, AND CONTROL SWITCH. LABELS TO BE ENGRAVED, LAMINATED, BAKELITE NAMEPLATES WITH 1/2 INCH HIGH WHITE OUT LETTERS; SECURE TO STARTER OR SWITCH.

EQUIPMENT, MATERIALS AND BID BASIS
SPECIFIED MANUFACTURER'S NAMES AND MODEL NUMBERS ARE FOR THE PURPOSE OF DESCRIBING TYPE, CAPACITY, FUNCTION, AND QUALITY OF EQUIPMENT AND MATERIALS TO BE USED. UNLESS "OR EQUAL" OR SPECIFICALLY STATED, BIDS SHALL BE BASED ON EQUIPMENT NAMES, CAPACITIES INDICATED TAKE PRECEDENCE OVER MODEL NUMBERS.

EQUIPMENT SUPPORT
SUPPORT ALL CEILING-MOUNTED EQUIPMENT, DUCTWORK, AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS AND EQUIPMENT, PROVIDE ADDITIONAL STEEL FRAMING. THIS CONTRACTOR SHALL COORDINATE SUPPORTS WITH THE BUILDING MANAGEMENT AND SUBMIT THE METHOD OF SUPPORT FOR REVIEW TO THE BUILDING MANAGEMENT.

OPENINGS THROUGH ROOF
PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOF INTEGRITY OF THIS BUILDING AS REQUIRED BY THE REMOVAL AND/OR INSTALLATION OF PIPES, DUCTS, CONDUITS, AND EQUIPMENT. SUBMIT FOR REVIEW TO THE BUILDING MANAGEMENT.

VIBRATION ISOLATORS
VIBRATION ISOLATORS FOR FANS SHALL BE THE HANGER TYPE AND SHALL CONTAIN A STEEL SPRING AND 0.3" DEFLECTION NEOPRENE ELEMENT IN SERIES. THE NEOPRENE ELEMENT SHALL BE MOLDED WITH A ROD ISOLATION BUSHING THAT PASSES THROUGH THE HANGER BOX.

SPRING DIAMETERS AND HANGER BOX LOWER HOLE SIZES SHALL BE LARGE ENOUGH TO PERMIT THE HANGER ROD TO SWING THROUGH A 15 DEGREE ARC BEFORE CONTACTING THE HOLE AND SHORT CIRCUITING THE SPRING. SPRINGS SHALL HAVE A MINIMUM ADDITIONAL TRAVEL TO SOLID HEIGHT EQUAL TO 50% OF THE RATED DEFLECTION.

SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION HANGERS WHICH SHALL BE FURNISHED WITH THE UNIT, AND ISOLATOR SHALL BE MATCHED TO EQUIPMENT WEIGHT AND SUPPORT LOCATIONS. ISOLATION HANGERS SHALL BE COMBINATION STEEL SPRING AND NEOPRENE-IN-SHEAR WITH STEEL HOUSING. ISOLATORS SHALL HAVE A MINIMUM OPERATING DEFLECTION OF 1 1/2". SPRINGS SHALL HAVE A MINIMUM ADDITIONAL TRAVEL FOR 50% BETWEEN THE DESIGN HEIGHT AND THE SOLID HEIGHT.

HVAC INSULATION
QUALITY ASSURANCE- SPECIFIED COMPONENTS OF THIS INSULATION SYSTEM, INCLUDING FACINGS, MASTICS AND ADHESIVES, SHALL HAVE A FIRE HAZARD RATING NOT TO EXCEED 25 FOR FUME SPREAD AND 50 FOR SMOKE DEVELOPED RATING, AS PER TESTS CONDUCTED IN ACCORDANCE WITH ASTM E84 (NFPA 255) METHODS.

PIPE INSULATION:
TYPE P1 ASTM C547, CLASS I (-20 DEGREES F TO 500 DEGREES F); FIBERGLASS, MINIMUM 4 POUNDS PER CUBIC FOOT (P.C.F.) DENSITY, K FACTOR 0.23 MAXIMUM AT 75 DEGREES F MEAN, WITH FACTORY-APPLIED ALL-SERVICE-JACKET (ASJ) COMPOSED OF REINFORCED KRAFT AND ALUMINUM FOL LAMINATE. JACKET SHALL HAVE SELF-SEALING LAP TO FACILITATE CLOSING LONGITUDINAL AND END JOINTS.

APPROVED PRODUCTS:
CERTAINE 500 DEGREE SNAP-ON ASJ/SSL
MANVILLE MICRO-LOK AP-T
OWENS/CORNING FIBERGLASS 25 ASJ/SSL
KNAUF PIPE INSULATION ASJ/SSL

TYPE P2 ASTM C534 (-40 DEGREES F TO 220 DEGREES F.)
FLEXIBLE, CLOSED-CELL ELASTOMERIC, NOMINAL 6 PCF DENSITY, K FACTOR 0.27 MAXIMUM AT 75 DEGREES F MEAN.

APPROVED PRODUCTS:
ARMSTRONG AP ARMAFLEX
MANVILLE AEROTUBE II
NOMACO THERMA-CEL
RUBATEX R-180-F5

DUCT INSULATION:

TYPE D1 ASTM C553 TYPE 1, CLASS B3;
FIBERGLASS, NOMINAL 1 P.C.F. DENSITY BLANKET, K FACTOR 0.31 MAXIMUM AT 75 DEGREES F MEAN, WITH FACTORY APPLIED FSK (FOL-SCRIM-KRAFT) VAPOR BARRIER JACKET, FOR TEMPERATURES TO TEMPERATURES 250 DEGREES F.

APPROVED PRODUCTS:
CERTAINE "STANDARD DUCT WRAP"
MANVILLE "MICROLITE"
OWENS/CORNING FIBERGLASS RFK-75
KNAUF "DUCTWRAP"

TYPE D3:

FIBERGLASS, NOMINAL 2.0 P.C.F. DENSITY LINER, K FACTOR 0.26 MAXIMUM AT 75 DEGREES F MEAN, BLACK COATING, FOR TEMPERATURES TO 250 DEGREES F.

APPROVED PRODUCTS:
CERTAINE ULTRALITE DUCT LINER 200
MANVILLE LINAOCUSTIC
KNAUF DUCT LINER M

INSTALLATION OF PIPE INSULATION:
INSTALL INSULATION ON PIPE SYSTEMS SUBSEQUENT TO TESTING AND ACCEPTANCE OF TEST.

MAINTAIN INTEGRITY OF VAPOR-BARRIER JACKETS ON PIPE INSULATION, AND PROTECT TO PREVENT PUNCTURE OR OTHER DAMAGE. SEAL OPEN ENDS OF INSULATION WITH MASTIC. SECTIONALLY SEAL ALL BUTT ENDS OF ALL COLD WATER PIPING INSULATION AT FITTINGS WITH WHITE VAPOR BARRIER COATING.

COVER VALVES, FLANGES, FITTINGS, AND SIMILAR ITEMS IN EACH PIPING SYSTEM WITH EQUIVALENT THICKNESS AND COMPOSITION OF INSULATION AS APPLIED TO ADJOINING PIPE RUN. INSTALL FACTORY MOLDED, PRECUT OR JOB FABRICATED UNITS (AT INSTALLER'S OPTION). FINISH COLD PIPE FITTINGS WITH WHITE VAPOR BARRIER COATING AND HOT PIPING WITH WHITE VINYL ACRYLIC MASTIC, BOTH REINFORCED WITH GLASS CLOTH.

EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED.

INSTALL PROTECTIVE METAL SHIELDS AND FOAM GLASS INSERTS WHERE PIPE HANGERS BEAR ON OUTSIDE ON INSULATION.

INSTALLATION OF DUCTWORK INSULATION:
MAINTAIN INTEGRITY OF VAPOR-BARRIER ON DUCTWORK INSULATION, AND PROTECT IT TO PREVENT PUNCTURE AND OTHER DAMAGE. TAPE ALL PUNCTURES. SECURE ALL DUCTWORK WITH GALVANIZED WIRE 12" O.C. SECURE DUCTWORK WITH OUTWARD CLINCHING STAPLES. SEAL ALL LONGITUDINAL AND CIRCUMFERENTIAL JOINTS WITH FSK TAPE.

EXTEND DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR DUCTWORK PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED.

EXCEPT AS OTHERWISE INDICATED, OMIT INSULATION ON DUCTWORK WHERE INTERNAL INSULATION OR SOUND ABSORBING LININGS HAVE BEEN INSTALLED.

ALL INTERNAL INSULATION SHALL BE ADHERED TO THE DUCT WITH 100% COVERAGE OF APPROVED FIRE RETARDANT MASTIC. ALL EDGES SHALL BE SEALED. ANY ABRASIONS OR TEARS REPAIRED WITH MASTIC. INCREASE INDICATED DUCT SIZES TO COMPENSATE FOR LINER THICKNESS.

INSULATION REQUIREMENTS:

LOCATION	INSULATION SCHEDULE				LINER LOCATION	LINER TYPE	LINER R-VAL
	WRAP	WRAP SIZE (IN.)	WRAP TYPE	WRAP R-VAL			
INDOOR CONCEALED SA/RA	<input checked="" type="checkbox"/>	2"	D1	6.0	<input checked="" type="checkbox"/>	1"	FIRST 10' FROM UNIT. SEE SINGLE & DUAL WALL SPEC THIS SHEET
INDOOR EXPOSED SA/RA	<input type="checkbox"/>	-	-	-	<input checked="" type="checkbox"/>	1"	CONTINUOUS
OUTDOOR CONCEALED SA/RA	<input checked="" type="checkbox"/>	2"	D1	8.0	<input checked="" type="checkbox"/>	2"	CONTINUOUS D3 8.0
OUTDOOR EXPOSED SA/RA	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	-	-
INDOOR CONCEALED OA	<input checked="" type="checkbox"/>	2"	D1	6.0	<input type="checkbox"/>	-	-
INDOOR EXPOSED OA	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	-	-
INDOOR EA	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	-	-
INDOOR TRANSFER	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	1"	CONTINUOUS D3 4.2
TYPE I KITCHEN EA	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	-	-
REFRIGERANT PIPING	<input checked="" type="checkbox"/>	1/2"	P1	CODE MIN.	<input type="checkbox"/>	-	-
CONDENSATE PIPING	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	-	-

MAINTENANCE AND SERVICE
THIS CONTRACTOR SHALL INCLUDE AND ASSUME COMPLETE RESPONSIBILITY FOR START-UP, 24 HOURS A DAY SERVICE WITH A RESPONSE TIME NOT TO EXCEED FOUR (4) HOURS.

MAINTENANCE ON A QUARTERLY BASIS (FOUR MAINTENANCE INSPECTIONS A YEAR) FOR A PERIOD OF ONE YEAR FOR ALL HVAC EQUIPMENT, INCLUDING PRE PURCHASED EQUIPMENT AS IS SAID PRE PURCHASED EQUIPMENT WERE PURCHASED BY THIS CONTRACTOR, AND INCLUDING EXISTING EQUIPMENT WITHIN TENANT SPACE. PROVIDE COST TO PERFORM PREVENTATIVE MAINTENANCE FOR THE FIRST YEAR ONLY.

THIS ONE-YEAR MAINTENANCE CONTRACT SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING WORK:
CHECK LINES FOR LEAKAGE OF REFRIGERANT/WATER
REFILL LINES IF NECESSARY
LUBRICATE MOTORS
CHECK OPERATION OF THERMOSTATS
REPLACE RETURN AIR FILTERS
CLEAN CONDENSER COILS
CHECK AND TIGHTEN ELECTRICAL CONNECTIONS
CHECK CONTROLS
CHECK FOR NOISE AND VIBRATION
CHECK REFRIGERANT PRESSURE DURING OPERATION
CHECK CURRENT (AMPERAGE) DRAW OF ALL MOTORS
CHECK OPERATION OF CONDENSATE DRAIN SYSTEM
CHECK AND ADJUST BLOWER FAN BELT TENSION

SHEET METAL WORK
EXCEPT AS OTHERWISE NOTED, ALL DUCTWORK AND OTHER SHEET METAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION, INC. (SMACNA), HVAC CONSTRUCTION STANDARDS MANUAL. DUCTWORK SHALL BE GALVANIZED SHEET METAL.

MINIMUM DUCTWORK STATIC PRESSURE CONSTRUCTION SHALL BE 2" W.G. DUCTWORK STATIC PRESSURE CONSTRUCTION SHALL BE 4" W.G. FOR OPERATING PRESSURES ABOVE 2" W.G. AND UP TO 4" W.G. ALL DUCTS SHALL BE SEAL CLASS "A".

LOW PRESSURE FLEXIBLE DUCT SHALL BE SIMILAR TO FLEX MASTER TYPE 5, OR APPROVED EQUAL, WITH 1" THICK INSULATION AND SHALL CONFORM TO U.L. 181 AND NFPA BULLETIN 90A.

MEDIUM PRESSURE FLEXIBLE DUCT TAKE-OFFS TO VARIABLE VOLUME TERMINAL UNITS TO BE THERMAFLEX 11 TYPE 5T-1 OR APPROVED EQUAL.

FIRE DAMPERS: FIRE DAMPERS SHALL BE DYNAMIC TYPE SIMILAR TO RUSKIN CURTAIN TYPE DIEBZ, WITH BLADES OUTSIDE AIR STREAM, GALVANIZED STEEL CONSTRUCTION, EQUIPPED WITH FUSIBLE LINK, U.L. LISTED AND INSTALLED IN CONFORMANCE WITH U.L. AND NFPA STANDARD 90A, AND APPROVED FOR USE BY AUTHORITIES HAVING JURISDICTION. PROVIDE ACCESS DOOR IN DUCTWORK FOR EACH FIRE DAMPER.

VOLUME DAMPERS: SAME MATERIAL AS DUCT, PER SMACNA, EXCEPT BEARING AT ONE END OF DAMPER ROD AND QUADRANT WITH LEVER AND LOCK SCREW AT OTHER END. FOR INSULATED DUCTS, QUADRANTS MOUNTED ON COLLAR SHALL CLEAR INSULATION; INSTALL WITH LEVERS ACCESSIBLE OUTSIDE INSULATION. BALANCING DAMPERS SHALL BE THE OPPOSED BLADE TYPE.

PROVIDE AND INSTALL INSULATED HINGED ACCESS PANELS FOR ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS.

FLEXIBLE CONNECTIONS: NEOPRENE-COATED GLASS FABRIC, 30 OZ. PER SQUARE YARD WITH SEWED AND CEMENTED SEAMS, SIMILAR TO LEVER SWITCHES, PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL EQUIPMENT AND RIGID DUCTWORK. FABRIC CONNECTIONS SHALL BE AT LEAST FOUR (4) INCHES LONG AND HAVE METAL COLLAR AT EACH END; ALLOW AT LEAST 1" SLACK TO ELIMINATE VIBRATION TRANSMISSION.

TURNING VANES: GALVANIZED STEEL, SINGLE THICKNESS VANES WITH MINIMUM TWO (2) INCHES INSIDE RADIUS. ALL SHOARV ELBOWS SHALL HAVE TURNING VANES.

ACCESS TILE IDENTIFICATIONS: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF ALL CONCEALED VALVES, DAMPERS, AND EQUIPMENT. SUBMIT TO ARCHITECT FOR APPROVAL.

DUCT SIZES SHOWN ARE OUTSIDE SHEET METAL DIMENSIONS. LINED DUCT HAS BEEN INCREASED FOR 1" THICK, CLOSED CELL ELASTOMERIC FOAM INSULATION. WRAPPED DUCT (WR) SHALL BE WRAPPED WITH 2" FIBERGLASS DUCT WRAP WITH A VAPOR BARRIER.

PORTIONS OF DUCTWORK VISIBLE THROUGH SUPPLY AND RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK.

TRANSITION RECTANGULAR DUCTWORK ON THE BOTTOM AND SIDES. MAINTAIN DUCTWORK LEVEL AND AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.

FLEXIBLE DUCT RUNOUTS TO ALL PIUS, VAVS, AND DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE INLET OF THE PIU, VAV AND DIFFUSERS SERVED. FLEXIBLE DUCT SHALL NOT BE ANY LONGER THAN 6 FEET.

ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.

ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH 1/2" x 1/2" x 1/8" GALVANIZED STEEL ANGLES BOLTED OR RIVETED 6" ON CENTER ALL AROUND THE EXTERIOR PERIMETER OF THE DUCT.

ALL SUPPLY DUCTWORK BETWEEN AIR HANDLING UNITS AND VAVS AND PIUS TO BE CONSIDERED AS HIGH VELOCITY, MEDIUM PRESSURE DUCTWORK.

FOR ROUND DUCT TAKE-OFFS FROM METAL DUCTS, USE GENFLEX MODEL NUMBER SM-10EL "SPIN-IN" FITTING.

DUCTBOARD
GENERAL: DUCTBOARD SHALL BE ACCEPTABLE. DUCTBOARD SHALL BE INSTALLED IN STRICT ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS. JOINTS SHALL BE TAPED CONTINUOUSLY. DUCTBOARD SHALL BE EQUAL TO JOHNS-MANVILLE MICRO-AIR DUCT BOARD. DUCTBOARD R-VALUES SHALL MEET THE ENERGY CODE REQUIREMENTS FOR THE INTENDED LOCATION OF THE DUCT. THE MECHANICAL CONTRACTOR SHALL PROVIDE PRICING FOR THE DUCTBOARD SYSTEM AS WELL AS A SHEET METAL DUCT SYSTEM AND PRESENT BOTH NUMBERS TO THE OWNER FOR REVIEW AND SELECTION OF THE DUCT SYSTEM.

PIPING
GENERAL: PIPING SHALL BE COMPLETE WITH PIPE FITTINGS, VALVES, COUPLING, STRAINERS, HANGER RODS, HANGERS, SUPPORTS, GUIDES, SLEEVES, AND ACCESSORIES IN CONFORMANCE WITH THE LATEST CODES AND ASME, ANSI, ASTM AND MSS STANDARDS.

NO PIPING SHALL BE LESS THAN 3/4", UNLESS OTHERWISE NOTED.

FOR PIPE SIZES NOT INDICATED ON PLANS, SEE MANUFACTURER'S EQUIPMENT CONNECTION DETAILS.

PROVIDE FITTINGS FOR CHANGE IN PIPE SIZE AND FOR FINAL CONNECTION AT EQUIPMENT, AS REQUIRED.

AVOID ENTRY OF FOREIGN MATTER INTO PIPING DURING CONSTRUCTION.

PROVIDE MINIMUM PITCH TO INSURE ADEQUATE VENTING AND DRAINAGE.

PIPING SUPPORTS:

HORIZONTAL PIPING AND PIPING HANGERS SHALL BE ADJUSTABLE CLEVIS TYPE "CARPENTER AND PATTERSON" FIGURE NUMBER 100 OR 100SH, OR APPROVAL EQUAL. HANGER RODS SHALL BE AS ON THE FOLLOWING DIAGRAM:

PIPE SIZE: 1/4" & BELOW; ROD DIAMETER: 3/8"; MAX SPACING: 6'
PIPE SIZE: 1/2" & 2"; ROD DIAMETER: 3/8"; MAX SPACING: 8'

PROVIDE ADDITIONAL SUPPORTS AT CHANGE OF DIRECTION, RUNOUTS, AND CONCENTRATED LOADS DUE TO VALVES, ETC.

PIPING MATERIAL:

REFRIGERANT PIPING SHALL BE COPPER ASTM #B280, FACTORY CLEANED, NITROGEN CHARGED, AND CAPPED.

CONDENSATE DISCHARGE P



10/8/24

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 L'YNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

MECHANICAL LEGENDS & DETAILS

PROJECT NUMBER 24102

DATE 10-08-2024

SHEET NO.

MO.3

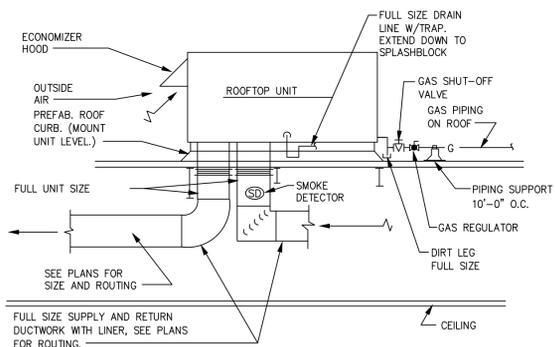
SHEET 3 OF 4

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.

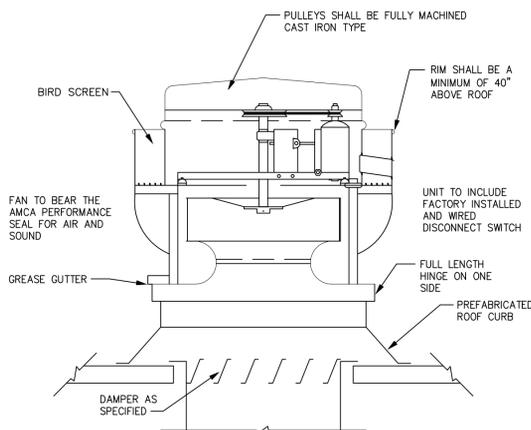
MECHANICAL LEGEND

SYMBOLS (NOT ALL SYMBOLS SHOWN ARE USED)		SYMBOLS (NOT ALL SYMBOLS SHOWN ARE USED)		ABBREVIATIONS (NOT ALL ABBREVIATIONS SHOWN ARE USED)	
	SUPPLY AIR DUCT		SUPPLY AIR DIFFUSER	AHU	AIR HANDLING UNIT
	RETURN AIR DUCT		RETURN AIR DIFFUSER	AD	ACCESS DOOR
	EXHAUST AIR DUCT		1\"/>	AFD	AIR PRESSURE DROP
	SUPPLY DUCT TURNING UP		WALL MOUNTED THERMOSTAT	ATC	AUTOMATIC TEMPERATURE CONTROLS
	RETURN/EXHAUST DUCT TURNING UP		DUCT MOUNTED SMOKE DETECTOR	BC	BRANCH CONTROL BOX
	SUPPLY DUCT TURNING DOWN		CEILING EXHAUST FAN (GENERAL EXHAUST)	BE	BOTTOM ELEVATION
	RETURN/EXHAUST DUCT TURNING DOWN		WALK-IN COOLER CONDENSING UNIT	BHP	BRAKE HORSE POWER
	RISE IN DUCT		ROOF MOUNTED EXHAUST FAN	BTUH	BRITISH THERMAL UNITS PER HOUR
	DROP IN DUCT		PACKAGED ROOFTOP UNIT	CUH	CABINET UNIT HEATER
	TRANSITION IN DUCT, SQUARE TO SQUARE			CC	COOLING COIL
	DUCT ROUTED UP/DOWN			CD	CONDENSATE DRAIN LINE
	TRANSITION IN DUCT, SQUARE TO ROUND			CL	CENTERLINE
	DUCT CAPPED AND SEALED			CFM	CUBIC FEET PER MINUTE
	DUCTWORK WITH INTERNAL LINER (X' LINED)			CO	CEILING GRILLE
	DUCTWORK TRANSITION FROM HARD ROUND TO FLEXIBLE			CHWS/R	CHILLED WATER SUPPLY/RETURN
	SQUARE THROAT DUCT ELBOW WITH TURNING VANES			CW	CITY WATER (DOMESTIC)
	SQUARE THROAT DUCT ELBOW WITHOUT TURNING VANES			CP	CONDENSATE PUMP
	FULL RADIUS ELBOW			D	DRAIN
	FLEXIBLE DUCT CONNECTION			DB	DRY BULB TEMPERATURE
	45 DEGREE TAP			DIA, Ø	DIAMETER
	CONICAL TAP			DDC	DIRECT DIGITAL CONTROLS
	SPIN-IN FITTING W/ VOLUME DAMPER & FLEXIBLE DUCT			DN	DOWN DOUBLE WALL SPIRAL DUCTWORK
	ROUND FLEXIBLE DUCT			DWS	DOUBLE WALL SPIRAL DUCTWORK
	VOLUME BALANCING DAMPER			DWG	DRAWING
	BOTTOM REGISTER			EA	EXHAUST AIR
	SQUARE-TO-ROUND BRANCH DUCT TAKE-OFF			EAD	EXHAUST AIR DAMPER
	TRANSITION			EDP	EMERGENCY DRIP PAN
	TEE WITH TURNING VANES AND SPLITTER DAMPER			(E)	EXISTING
	SQUARE ELBOW WITH TURNING VANES			(ER)	EXISTING RELOCATED
	SEE AIR DISTRIBUTION SCHEDULE			(ERR)	EXISTING REMOVED AND RELOCATED
	SEE AIR QUANTITY REQUIRED			ESP	EXTERNAL STATIC PRESSURE
	PIPE UP			EF	EXHAUST FAN
	PIPE DOWN			FCU	FAN COIL UNIT
	VALVE IN VERTICAL			F	FAN
	GAS PIPING ON ROOF, SIZED PER PLANS			FC	FLEXIBLE CONNECTION
	GAS PIPING BELOW ROOF, SIZED PER PLANS			G	GRILLE
	CONDENSATE DRAIN PIPING			GF	GAS FURNACE
	REFRIGERANT SUCTION LINE			GL	GLYCOL PIPING (BY OTHERS)
	REFRIGERANT LIQUID LINE			HC	HEATING COIL
	REFRIGERANT HOT GAS LINE			HG	HOT GAS PIPING
				HP	HORSEPOWER
				HWS/R	HEATING HOT WATER SUPPLY/RETURN
				KEF	KITCHEN EXHAUST FAN
				(L)	LINED DUCTWORK
				LPS	LOW PRESSURE STEAM
				MJA	MAKE UP AIR
				MAX	MAXIMUM
				MA	MIXED AIR
				MBH	ONE THOUSAND BTUH
				MD	MOTORIZED DAMPER
				MTD	MOUNTED
				NC	NOT IN CONTRACT
				NO	NORMALLY OPEN
				NTS	NOT TO SCALE
				OA	OUTSIDE AIR
				OAD	OUTSIDE AIR DAMPER
				OC	ON CENTER
				OSD	OPEN SITE DRAIN
				PC	PUMPED CONDENSATE
				PCR	PUMPED CONDENSATE RETURN
				PD	PRESSURE DROP
				PH	PHASE
				PMU	PAD MOUNTED UNIT
				RA	RETURN AIR
				RAD	RETURN AIR DAMPER
				RAG	RETURN AIR GRILLE
				(R)	REMOVE
				R	RETURN FAN
				RS/RL	REFRIGERANT SUCTION/LIQUID LINES
				RTU	ROOFTOP UNIT
				SA	SUPPLY AIR
				SD	SPLITTER DAMPER
				SENS	SENSIBLE
				TD	TRANSFER DUCT
				TYP	TYPICAL
				TOS	TOP OF SLAB
				UH	UNIT HEATER
				VAV	VARIABLE AIR VOLUME
				VFD	VARIABLE FREQUENCY DRIVE
				VF	VENTILATION FAN
				VVV	VARIABLE REFRIG. VOLUME
				V	VOLTS
				VD	VOLUME DAMPER
				VF	VERIFY IN FIELD
				W/J	WITH
				WMS	WIRE MESH SCREEN
				(WO)	WALL OPENING
				(WR)	WRAPPED DUCTWORK

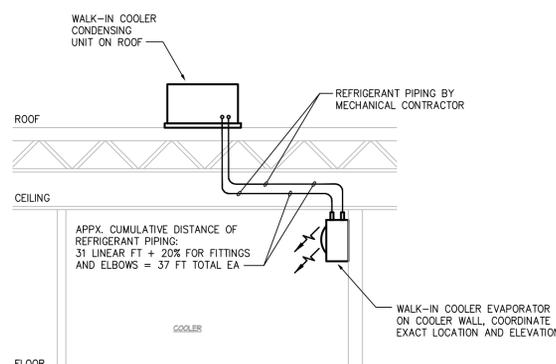
- NOTES:
1. PROVIDE OPENING IN ROOF SIZED FOR SUPPLY AND RETURN DUCTS. ALL OTHER AREAS UNDER UNIT SHALL HAVE ANGLES AND SHEET METAL ACROSS UNDER UNIT WITH BATT INSULATION FILLING VOID.
 2. ROOF CURBS SHALL MATCH SLOPE OF ROOF.
 3. SMOKE DETECTORS SHALL BE IONIZATION TYPE WIRED TO SHUT DOWN THE UNIT UPON ACTIVATION. SMOKE DETECTORS SHALL BE PROVIDED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED IN THE DUCT BY THE MECHANICAL CONTRACTOR.



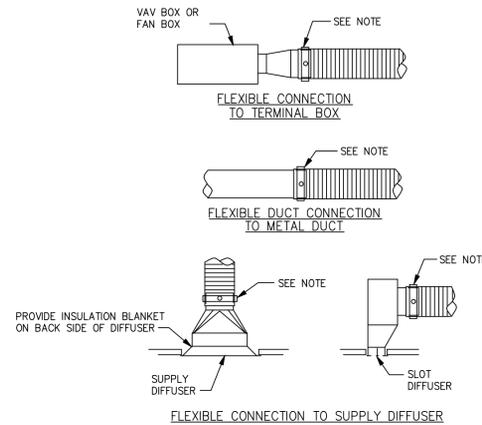
5 GAS-FIRED ROOFTOP UNIT DETAIL
SCALE: NONE



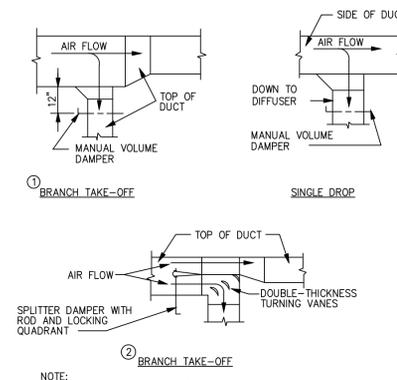
6 CENTRIFUGAL UPBLAST ROOF EXHAUST FAN
SCALE: NONE



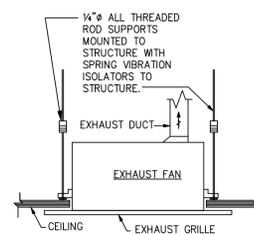
7 WALK-IN COOLER REFRIGERANT PIPING SCHEMATIC
NO SCALE



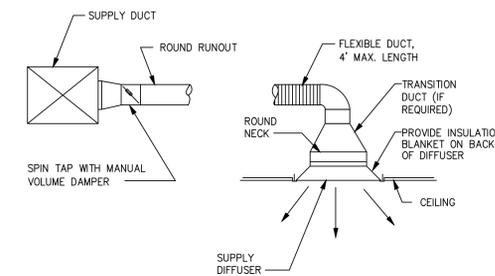
1 TYPICAL FLEX. CONNECTION DETAILS
SCALE: NONE



2 DUCTWORK DETAIL
SCALE: NONE



3 CEILING MOUNTED FAN DETAIL
SCALE: NONE



4 SPIN TAP TO ROUND NECK DIFFUSER
SCALE: NONE

REFRIGERATION CALCULATIONS

1. REFRIGERANT TYPE:	R448A
2. REFRIGERATION CLASSIFICATION TABLE 1103.1 SCMC:	A1
3. REFRIGERANT SYSTEM CLASSIFICATION. 1103.2/1103.3:	DIRECT SYSTEM, HIGH PROBABILITY
4. MAXIMUM REFRIGERANT QUANTITY (TABLE 1103.1):	27 LBS/1000 CU FT
5. SYSTEM APPLICATION/VOLUME CALCULATIONS/FREEZER VOLUME:	8.3'x12.3'x7.9' = 821 CU FT
6. MAXIMUM ALLOWABLE REFRIGERANT IN THE SYSTEM:	19.7 LBSx1.963 = 38.7 LBS OF REFRIGERANT

NOTE: CALCULATIONS DERIVED FROM CHAPTER 11 OF THE CURRENT LOCALLY ADOPTED MECHANICAL CODE...

7 WALK-IN COOLER REFRIGERANT PIPING SCHEMATIC
NO SCALE



10/8/24

REVISIONS:

NO.	DATE	DESCRIPTION	BY
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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNX CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

FLOOR PLAN - MECHANICAL

PROJECT NUMBER 24102

DATE 10-08-2024

SHEET NO.

M1.1

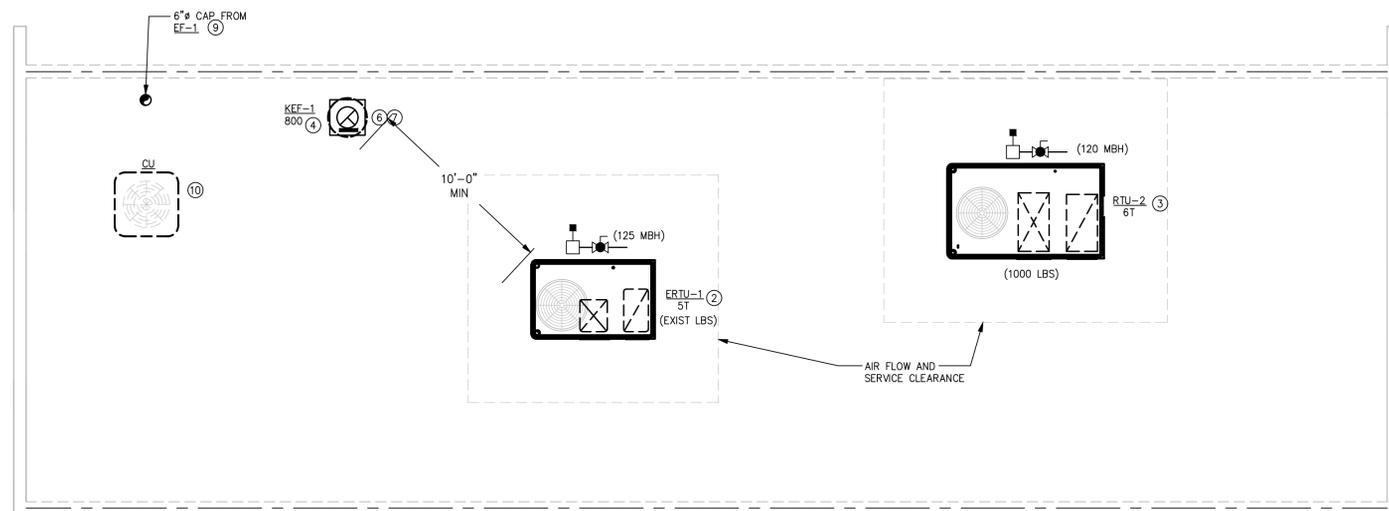
NOTES THIS SHEET

- SEE SHEET M0.1, M0.2 & M0.3 FOR SPECIFICATIONS, LEGENDS, DETAILS AND SCHEDULES.
- EXISTING ROOFTOP UNIT (ERTU-1) ON ROOF CURB, FIELD VERIFY EXACT LOCATION. UNIT SHALL BE REFURBISHED INCLUDING NEW BELTS (IF APPLICABLE), FILTERS, REFRIGERANT CHARGE CHECKED, CONTROLS RECALIBRATED AND ALL DAMPERS/CONTROLLERS CHECKED FOR PROPER OPERATION.
- NEW ROOFTOP UNITS (RTU-1) TO BE INSTALLED ON NEW 14" ROOF CURB. COORDINATE EXACT LOCATION OF NEW UNIT WITH STRUCTURAL PRIOR TO BEGINNING ANY WORK TO ENSURE NEW UNIT IS LOCATED WITHIN EXISTING "LOADING ZONES" FROM ORIGINAL CONSTRUCTION. ROUTE NEW CONDENSATE DRAIN LINE TO NEAREST ROOF DRAIN AND SPILL.
- NEW KITCHEN HOOD EXHAUST FAN, KEF-1, ON ROOF CURB, FIELD VERIFY EXACT LOCATION. KITCHEN EXHAUST FAN PROVIDED BY HOOD SUPPLIER, INSTALLED BY MECHANICAL CONTRACTOR. FIELD VERIFY EXACT LOCATION TO MAINTAIN 10 FEET CLEARANCE BETWEEN FAN AND ANY OUTSIDE AIR INTAKES. SEE ATTACHED KITCHEN HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- NEW PIZZA HOOD BY OTHERS. SEE KITCHEN HOOD AND ASSOCIATED EQUIPMENT DRAWINGS FOR HOOD SIZE, EXHAUST RATES, ETC. HOOD AND KITCHEN EXHAUST FAN ARE FURNISHED BY MARCO'S PIZZA DISTRIBUTING. HOOD SIZED AT 700 CFM EXHAUST RATE PER OWNER/EQUIPMENT REQUIREMENTS. MAKE-UP AIR FOR HOOD EXHAUST PROVIDED VIA ROOFTOP UNITS, ERTU-1 & RTU-2. SEE SHEET M0.2 FOR RTU INFORMATION. SEE HOOD SUBMITTAL INFORMATION PROVIDED BY MARCO'S PIZZA DISTRIBUTING.
- PROVIDE 12" GREASE EXHAUST AIR DUCT UP TO KEF-1 ON ROOF. GREASE DUCT SHALL BE CAPTIVE/ARE DOUBLE WALL WELDLESS DUCTING FOR ZERO CLEARANCE ALONG EXHAUST DUCT PATH. PROVIDE ALL TRANSITIONS, FITTINGS, EXTENSIONS AND SUPPORTS AS REQUIRED. SUBSTITUTION OF FIELD FABRICATED DUCTWORK SHALL REQUIRE APPROVAL OF PROJECT MANAGER, OWNER, ARCHITECT AND ENGINEER PRIOR TO BIDDING.
- PROVIDE GREASE CLEANOUTS IN ALL ELBOWS IN KITCHEN GREASE LADEN EXHAUST DUCT AS REQUIRED BY MECHANICAL CODE.
- MECHANICAL CONTRACTOR SHALL PROVIDE EMERGENCY HOOD SHUT-OFF SWITCH AT THIS LOCATION, FIELD VERIFY EXACT LOCATION. BUTTON SHALL SHUT HOOD SYSTEM DOWN UPON ACTIVATION. BUTTON SHALL BE LOCATED BETWEEN 10 AND 20 FEET FROM HOOD NEAR EXIT DOOR.
- NEW RESTROOM EXHAUST FAN, EF-1, AS SCHEDULED ON SHEET M0.2. ROUTE NEW EXHAUST DUCT AS INDICATED UP THRU ROOF TO ROOF CAP TO MAINTAIN 10 FEET CLEARANCE FROM ANY OA INTAKE. FIELD VERIFY EXACT LOCATION OF TERMINATION POINT.
- WALK-IN COOLER CONDENSING UNIT TO BE INSTALLED ON ROOF OVER WALK-IN COOLER. COOLER PROVIDED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR.
- COORDINATE THERMOSTAT LOCATION WITH OWNER PRIOR TO ROUGHING IN OR RELOCATING. DO NOT INSTALL NEAR AND HEAT EMITTING EQUIPMENT. TYPICAL.
- WHERE INDICATED, PROVIDE AND INSTALL NEW DUCT-MOUNTED SMOKE DETECTOR IN RA DUCTWORK IF THERE IS NONE EXISTING. PROVIDE AND INSTALL REMOTE ANNUNCIATING DEVICE WITH KEYS/OVERRIDE. REMOTE ANNUNCIATING DEVICE SHALL BE LOCATED IN ROUTINELY OCCUPIED AREA AND SHALL IDENTIFY ASSOCIATED EQUIPMENT.
- NEW GAS FIRED, DIRECT VENT, TANKLESS WATER HEATERS, MOUNTED ON WALL BY PLUMBING CONTRACTOR. NO COMBUSTION/VENTILATION DUCTS REQUIRED.

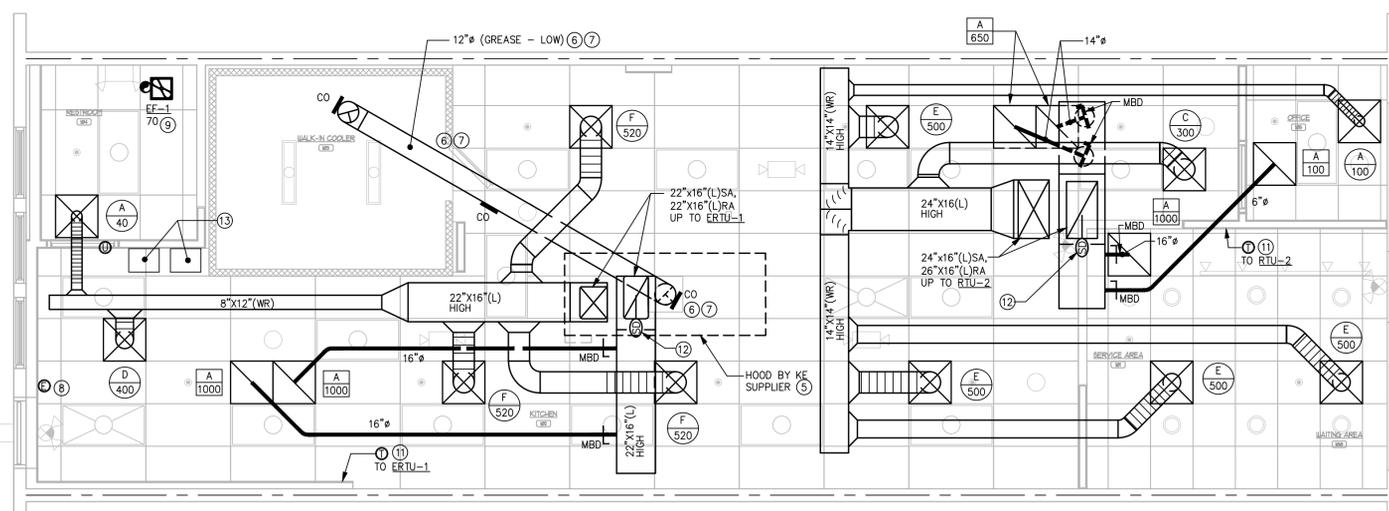
MECHANICAL CONTRACTOR SHALL FIELD COORDINATE THE EXACT LOCATION(S) OF ALL NEW DUCTWORK WITH ALL EXISTING STRUCTURAL CONDITIONS. ALL NEW DUCTWORK SHALL BE ROUTED IN TRUSS CAVITIES, WHERE POSSIBLE, AND AS TIGHT TO STRUCTURE ELSEWHERE.

MECHANICAL CONTRACTOR SHALL FIELD COORDINATE THE EXACT LOCATION(S) OF ALL NEW ROOF EQUIPMENT AND PENETRATIONS WITH STRUCTURAL TO AVOID CONFLICTS AND TO ENSURE THAT UNIT PLACEMENT LOCATIONS SHOWN ON THESE PLANS ARE LOCATED WITHIN A STRUCTURAL ZONE CAPABLE OF ACCOMMODATING NEW EQUIPMENT.

CONTRACTOR NOTE:
MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL NEW ROOFTOP MOUNTED EQUIPMENT IS INSTALLED WITHIN ANY EXISTING REINFORCED STRUCTURAL AREAS OR ZONES THAT ARE DESIGNATED FOR FUTURE MECHANICAL EQUIPMENT. COORDINATE WITH ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO BEGINNING ANY WORK. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY NEW OR ADDITIONAL STRUCTURAL BRACING REQUIRED FOR ANY NEW ROOFTOP MOUNTED MECHANICAL EQUIPMENT. COST OF ADDING ANY NEW OR ADDITIONAL ROOF SUPPORT(S) SHALL BE INCLUDED IN CONTRACTOR'S BASE BID.



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



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

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.

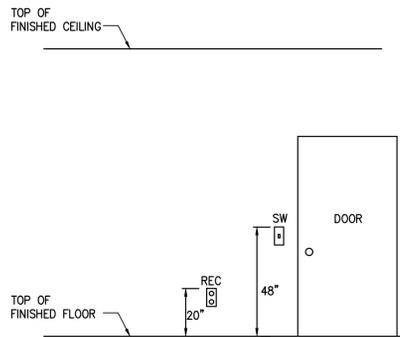
GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE 2020 VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES, LAWS, AND ORDINANCES. WHERE ONE CODE DIFFERS FROM ANOTHER, THE STRICTER OF THE THREE SHALL APPLY.
- IT IS THE DUTY OF THE ELECTRICAL CONTRACTOR TO BE FAMILIAR WITH THE CONSTRUCTION DETAILS OF THE BUILDING. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SYSTEM WITH ALL OTHER TRADES AND SHALL COMPLETE THE ELECTRICAL INSTALLATION AS SOON AS CONDITIONS WILL ALLOW.
- ALL WORK SHALL BE DONE IN A NEAT, QUALITY MANNER WITH ALL WIRING AND RACEWAYS CONCEALED.
- ALL ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES WORKING ON THE PREMISES.
- WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS WILL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS AND THE FOLLOWING LIMITATIONS:
 - SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING CIRCUITS AND THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS)

	#12	#10	#8	#6
120V., 20A.	85'	110'	165'	270'
277V., 20A.	160'	250'	390'	600'
- THIS PROJECT TO MEET NFPA 72 AND ADA REQUIREMENTS REGARDING MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
- RECESSED LIGHTING FIXTURES MUST HAVE 1/2" CLEARANCE FROM COMBUSTIBLE MATERIALS AND 3" CLEARANCE FROM INSTALLATION OR BE IC RATED PER ARTICLE 410.116 (A) 1 AND 2 AND 410.66 (B) OF THE 2020 NEC.
- IN ACCORDANCE WITH SPECIFICATIONS, DURING CONSTRUCTION OPERATIONS, THE ELECTRICAL CONTRACTOR SHALL MAKE A RECORD OF ALL APPROVED CHANGES FROM THE CONTRACT DRAWINGS, INCLUDING ACCURATE DIMENSIONS WHERE APPLICABLE, AND SHALL ALSO RECORD ACCURATE DIMENSIONS LOCATING ALL BELOW-GRADE OUTSIDE ELECTRICAL UTILITIES (WHETHER CHANGED OR NOT) WITH REFERENCE TO PERMANENT ABOVE-GRADE OBJECTS. AT THE COMPLETION OF THE WORK ALL SUCH CHANGES SHALL BE RECORDED NEATLY IN RED INK BY THE ELECTRICAL CONTRACTOR ON AN UNUSED SET OF THE ELECTRICAL CONTRACT DRAWINGS SUPPLIED BY THE ARCHITECT. THE RED LINE CHANGES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE COMPLETED RECORD PRINTS RETURNED TO THE ARCHITECT.
- MINIMUM SIZE CONDUIT FOR 20A CIRCUITS IS 3/4" FOR METALLIC AND PVC CONDUIT.
- ALL PRE-WIRED EQUIPMENT MUST BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY PER ARTICLE 110.3 (A AND B) OF THE 2020 NEC.
- THE TERMINATION PROVISIONS OF EQUIPMENT MUST BE USED IN DETERMINING THE AMPLITUDES OF CONDUCTORS BASED ON TABLE 310.16 REGARDLESS OF THE INSTALLATION RATING OF THE CONDUCTORS PER ARTICLE 110.14 (C) 1 AND 2 OF THE 2020 NEC.
- FLASH PROTECTION WARNING LABELS REQUIRED ON SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS PER ARTICLE 110.16 OF THE 2020 NEC.
- SPACES ABOUT ELECTRICAL EQUIPMENT MUST MEET 110.26 (A THROUGH F) ARTICLE 2020 NEC.
- RACEWAYS AND CABLES INSTALLED ABOVE SUSPENDED CEILING REQUIRED TO HAVE INDEPENDENT SUPPORT WIRES CEILING GRID WIRES CANNOT BE USED TO SUPPORT RACEWAY AND CABLES UNLESS CEILING GRID IS RATED FOR SUPPORT PER ARTICLE 300.11 OF THE 2020 NEC.
- TYPE NM, NMC, AND NMS CABLES CANNOT BE USED ABOVE SUSPENDED CEILING PER ARTICLE 334.12 IF THE 2020 NEC.
- FLEXIBLE CORDS CANNOT BE USED AS A SUBSTITUTED FOR FIXED WIRE OR CONCEALED ABOVE SUSPENDED CEILING PER ARTICLE 400.8 (1) AND (5) PER 2020 NEC.
- INDIVIDUAL UNIT EQUIPMENT USED FOR EXIT SIGNS AND EMERGENCY LIGHTS THAT USES A RECHARGEABLE BATTERY MUST BE SUPPLIED BY THE CIRCUIT THAT SUPPLIES THE NORMAL LIGHTING FOR THAT AREA PER ARTICLE 700.12 (F) AND 700.17 OF THE 2020 NEC.
- LAY IN FIXTURES INSTALLED IN SUSPENDED CEILING SHALL BE FASTENED TO GRID BY SCREWS OR LISTED CLIPS PER ARTICLE 410.36 OF THE 2020 NEC.

POWER LEGEND

- 20A, 125V, 2P, NEMA 5-20R DUPLEX RECEPTACLE
- POWER OUTLET, 208V, SIZED AS NOTED.
- QUADRAPLEX OUTLET, 2 DUPLEX OUTLETS IN 2 GANG BOX WITH 2 GANG COVER PLATE
- 20A, 125V, 2P, 3W, NEMA 5-20R DUPLEX RECEPTACLE MOUNT 6" ABOVE COUNTER TO BOTTOM OF OUTLET BOX.
- FED-SPEC GRADE USB CHARGER WITH TAMPER-RESISTANT DUPLEX RECEPTACLE WIREMOLD #TRS262USB-IVORY OR APPROVED EQUAL.
- ADJACENT TO RECEPTACLE DENOTES GROUND FAULT INTERRUPTER OUTLET, (FEED THRU TYPE).
- ADJACENT TO RECEPTACLE INDICATES WEATHERPROOF IN-USE TYPE COVER.
- ADJACENT TO RECEPTACLE INDICATES WEATHER RESISTANT TYPE RECEPTACLE.
- TYPICAL DATA/COMM OUTLET DOUBLE GANG OUTLET BOX WITH SINGLE GANG MUD RING. ROUTE 3/4 INCH CONDUIT TO ABOVE CEILING SPACE. PROVIDE PULL STRING. COMMUNICATIONS CONTRACTOR TO PROVIDE FACE PLATE, WIRING, AND FINAL CONNECTIONS.
- JUNCTION BOX
- LIGHTING OR RECEPTACLE PANEL BOARD.
- DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- DISCONNECT FURNISHED WITH EQUIPMENT
- MOTOR RATED SWITCH, CONTINUOUS CURRENT RATED, QUANTITY OF POLES AS REQUIRED
- EXHAUST FAN.
- SEE MECHANICAL DWGS. FOR FAN SPECIFICATIONS. MOTOR, HORSEPOWER AS SHOWN.
- "HOME-RUN" TO PANEL BOARD.



TYPICAL DEVICE MOUNTING HEIGHT
SCALE: NONE

FIRE ALARM NOTE

CONTRACTOR SHALL PROVIDE AND INSTALL FIRE ALARM DEVICES AS REQUIRED. THIS SHALL BE COMPLETED AND PERMITTED SEPARATE FROM THIS SUBMITTAL AND THE DESIGN SHALL BE COMPLETE BY A LICENSED FIRE ALARM CONTRACTOR AND DESIGN PROFESSIONAL. THE FIRE ALARM SHALL BE IN COMPLIANT WITH ALL APPLICABLE CODES. THE FIRE ALARM SYSTEM SHALL BE IN COMPLETE ACCORDANCE WITH THE INTERNATIONAL FIRE CODE AND NFPA 72 LATEST ENFORCED EDITIONS, AS WELL AS THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	MANUFACTURER PART #	KELVIN	VOLTAGE	WATTAGE	MOUNTING	COMMENTS
EM1	EMERGENCY DUAL-HEAD FIXTURE WITH BATTERY BACK UP	LED	MAXILUME LIGHTING CATALOG #ELM-LED-803-FINISH		120	3	UNIVERSAL MOUNT TO WALL OR CEILING	
ER	2-LAMP WEATHERPROOF REMOTE HEAD POWERED BY EXIT SIGN "EX" BELOW	LED	MAXILUME LIGHTING CATALOG #ELM-LED-882-OT		6	2	SURFACE MOUNT PER MANUFACTURER	
EX	THERMOPLASTIC LED EXIT SIGN COMBO WITH HEADS, AND HIGH OUTPUT BATTERY TO FEED EXIT DISCHARGE LIGHT "ER" ABOVE	LED	MAXILUME LIGHTING CATALOG #ELX-713-R-FINISH		120	4	SURFACE MOUNT PER MANUFACTURER	
L15A-#FT	LINE VOLTAGE TRACK WITH LED HEADS AND (1) 1A SINGLE CIRCUIT END FEED CURRENT LIMITING DEVICE. ONE CURRENT LIMITING DEVICE FOR ALL TRACK SECTIONS	LED	TRACK: CONTECH LIGHTING CATALOG #LT-LENGTH-B CURRENT LIMITER: CONTECH LIGHTING CATALOG #LA-23-RN-B-REG1-B TRACK HEAD: LF ILLUMINATION LIGHTING CATALOG #TXAD1-A-J-06C-9230-M-D1-1-BB	3000	120	6W/HEAD	CEILING MOUNTED	
L17	2X4 LED FIXTURE (4,950 LUMENS)	LED	CREE LIGHTING CATALOG #C-TR-C-FP24-50L-35K-WH	3500	120	41	RECESSED MOUNTED	
L18	6" RECESSED LED DOWNLIGHT	LED	HOUSING: ELITE LIGHTING CATALOG #B9C-AT-W-WH FIXTURE: TCP LIGHTING CATALOG #LED14DR5630K95	3000	120	12	RECESSED MOUNTED	

NOTES:

- COORDINATE LED COLOR TEMPERATURE WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.
- COORDINATE FINISHES WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.
- COORDINATE MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.
- LIGHTING FIXTURES MANUFACTURER SHALL BE PROVIDED AS SPECIFIED, UNLESS PRE-APPROVED DURING BIDDING BY THE ARCHITECT/ENGINEER.
- BATTERY PACKS FOR ALL EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CAPABLE OF PROVIDING EMERGENCY POWER TO THE FIXTURES FOR A MINIMUM OF 90 MINUTES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORY PARTS FOR THE TRACK LIGHTING SYSTEM TO MAKE A COMPLETE WORKING TRACK SYSTEM. THIS INCLUDES BUT NOT LIMITED TO TRACK, 120V ADAPTERS, END PIECES, CORNER PIECES, PENDANT MOUNTED ADAPTERS, HANGERS, ETC.

LIGHTING FIXTURE ORDERING NOTES

ELECTRICAL CONTRACTOR IS REQUIRED TO PURCHASE FIXTURE SCHEDULE ABOVE. NO SUBSTITUTIONS OR ALTERNATES SHALL BE ACCEPTED.

CONTACT BETH RIBE, PROJECT MANAGER:
Beth.Ribe@capitolight.com
(860) 449-4502

ALL LIGHTING FIXTURES SHALL BE ORDERED EIGHT (8) TO TEN (10) WEEKS PRIOR TO WHEN THEY ARE NEEDED ON SITE TO MEET THE CONSTRUCTION SCHEDULE. SEND TO THE ARCHITECT ALL LIGHTING SHOP DRAWING SUBMITTALS TWO WEEKS PRIOR TO THE ORDERING DATE.



GERALD P. NOE
ARCHITECT

COLORADO REGISTRATION NO. 401357

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REVISIONS:

NO.	DATE	DESCRIPTION	BY
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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME: 6077



HIGH POINT RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

GENERAL NOTES,
LEGENDS,
FIXTURE
SCHEDULE

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

E-1.0

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.



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REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:
SINGH CHEESE, LLC

HARMAN SINGH
 6038 LINC CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME:
MARCO'S PIZZA UP-FIT 6077



SHEET TITLE:

PANEL SCHEDULES & RISER DIAGRAM

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

E-2.0

SHEET 2 OF 7

EXISTING PANEL A

208/120 VOLT, 200 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
 SQUARE D LOAD CENTER CATALOG #QOC42US, 10 KAIC

CONN LOAD	CIRCUIT USE	S N	200A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	EXTERIOR SIGNAGE	1		2	EXISTING RTU-1	3363	4231		
868	LIT-BEHIND-COUNTER SERVICE AREA, WAITING AREA, KITCHEN, & OFFICE	3		4		3363		4363	
300	TIMECLOCK	5		6		3363			3663
1325	KEF-1	7		8	REC-REFRIGERATOR PIZZA PREP (1)	1536	2861		
300	ANSUL SYSTEM DRY CONTACT	9		10	REC-REFRIGERATOR (3.2)	756		1056	
500	HOOD CONTROL BOX	11		12	REC-DISPLAY CASE (4)	828			1328
500	OVEN CONTROL BOX	13		14	REC-DOUGH ROLLER (6)	816	1316		
	SHUNT TRIP SPACE	15		16	REC-FREEZER (20)	744		744	
1140	OVEN, CONVEYER (7.4a)	17		18	REC-DISPLAY CASE (28.0)	624			1764
1140	OVEN, CONVEYER (7.4b)	19		20	REC-DISPLAY CASE (28.1)	1020	2160		
100	LIT-WALK-IN COOLER	21		22	REC-TELEPHONE BOARD	500		600	
1200	MIXER (18.1)	23		24	REC-BUMP SCHEDULE (S4.1, S4.2, S4.3), S4.4, S4.5, S4.6, S4.7, S4.8, S4.9, S4.10, S4.11, S4.12, S4.13, S4.14, S4.15, S4.16, S4.17, S4.18, S4.19, S4.20, S4.21, S4.22, S4.23, S4.24, S4.25, S4.26, S4.27, S4.28, S4.29, S4.30, S4.31, S4.32, S4.33, S4.34, S4.35, S4.36, S4.37, S4.38, S4.39, S4.40, S4.41, S4.42, S4.43, S4.44, S4.45, S4.46, S4.47, S4.48, S4.49, S4.50, S4.51, S4.52, S4.53, S4.54, S4.55, S4.56, S4.57, S4.58, S4.59, S4.60, S4.61, S4.62, S4.63, S4.64, S4.65, S4.66, S4.67, S4.68, S4.69, S4.70, S4.71, S4.72, S4.73, S4.74, S4.75, S4.76, S4.77, S4.78, S4.79, S4.80, S4.81, S4.82, S4.83, S4.84, S4.85, S4.86, S4.87, S4.88, S4.89, S4.90, S4.91, S4.92, S4.93, S4.94, S4.95, S4.96, S4.97, S4.98, S4.99, S4.100	500			1700
1200		25		26	REC-POS (S4.2) & (S4.3), PHONE (43.2), RECEIPT PRINTER (41.1)	500	1700		
1200		27		28	REC-POS (S4.2) & (S4.3), PHONE (43.2), RECEIPT PRINTER (41.1)	500		1700	
1200	REC-WAITING AREA & OFFICE (CEILING)	29		30	REC-POS (S4.4) & (S4.5), PHONE (43.3) & (43.4)	500			1700
360	REC-WAITING AREA & KITCHEN	31		32	REC-MENU BOARD (20), TV (44.1), RECEIPT PRINTER (41.2)	500	860		
1440	REC-OFFICE	33		34	REC-RECEIPT PRINTER (41.2) & TV (44.2)	360		1800	
900	REC-KITCHEN & RESTROOM	35		36	HOOD SUPPRESSION SYSTEM	300			1200
	EXISTING PREPARED SPACE	37		38	NEW PANEL "B"	7077	7077		
	EXISTING PREPARED SPACE	39		40		5615		5615	
	EXISTING PREPARED SPACE	41		42		5773			5773

NOTES:

- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
- PROVIDE UPDATED TYPED PANEL SCHEDULE.
- ALL CIRCUIT BREAKERS NOTED AS SPARE TO BE IN THE OFF POSITION.

S/T DENOTES SHUNT TRIP BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.

GFI DENOTES GFCI TYPE BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.

* DENOTES NEW CIRCUIT BREAKER PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.

PHASE A	20205		
PHASE B		15878	
PHASE C			17128
TOTAL VA	53211		
CONNECTED AMPERAGE	148 AMPERES		

NEW PANEL B

208/120 VOLT, 100 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
 COPPER PLATED BUS, FULLY RATED, 10 KAIC

CONN LOAD	CIRCUIT USE	S N	100A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
500	REC-WIREMOLD (CAR TOPPER)	1		2	WARMER OVERHEAD (15.1)	804		1304	
500		3		4	WARMER OVERHEAD (15.2)	804			1304
566	COOLER CONDENSER	5		6	WARMER OVERHEAD (15b.1)	1056			1622
566		7		8	WARMER OVERHEAD (15b.2)	1056			1622
300	CIRCULATION PUMP	9		10	HVAC MAINTENANCE RECEPTACLE	360			660
500	WATER HEATER WH-1	11		12	RTU-2	3651			4151
500	WATER HEATER WH-2	13		14		3651			4151
	SPARE 20A BREAKER	15		16		3651			3651
	SPARE 20A BREAKER	17		18	SPARE 20A BREAKER				
	SPARE 20A BREAKER	19		20	SPARE 20A BREAKER				
	SPARE 20A BREAKER	21		22	SPARE 20A BREAKER				
	PREPARED SPACE	23		24	PREPARED SPACE				
	PREPARED SPACE	25		26	PREPARED SPACE				
	PREPARED SPACE	27		28	PREPARED SPACE				
	PREPARED SPACE	29		30	PREPARED SPACE				
	PREPARED SPACE	31		32	PREPARED SPACE				
	PREPARED SPACE	33		34	PREPARED SPACE				
	PREPARED SPACE	35		36	PREPARED SPACE				
	PREPARED SPACE	37		38	PREPARED SPACE				
	PREPARED SPACE	39		40	PREPARED SPACE				
	PREPARED SPACE	41		42	PREPARED SPACE				

NOTES:

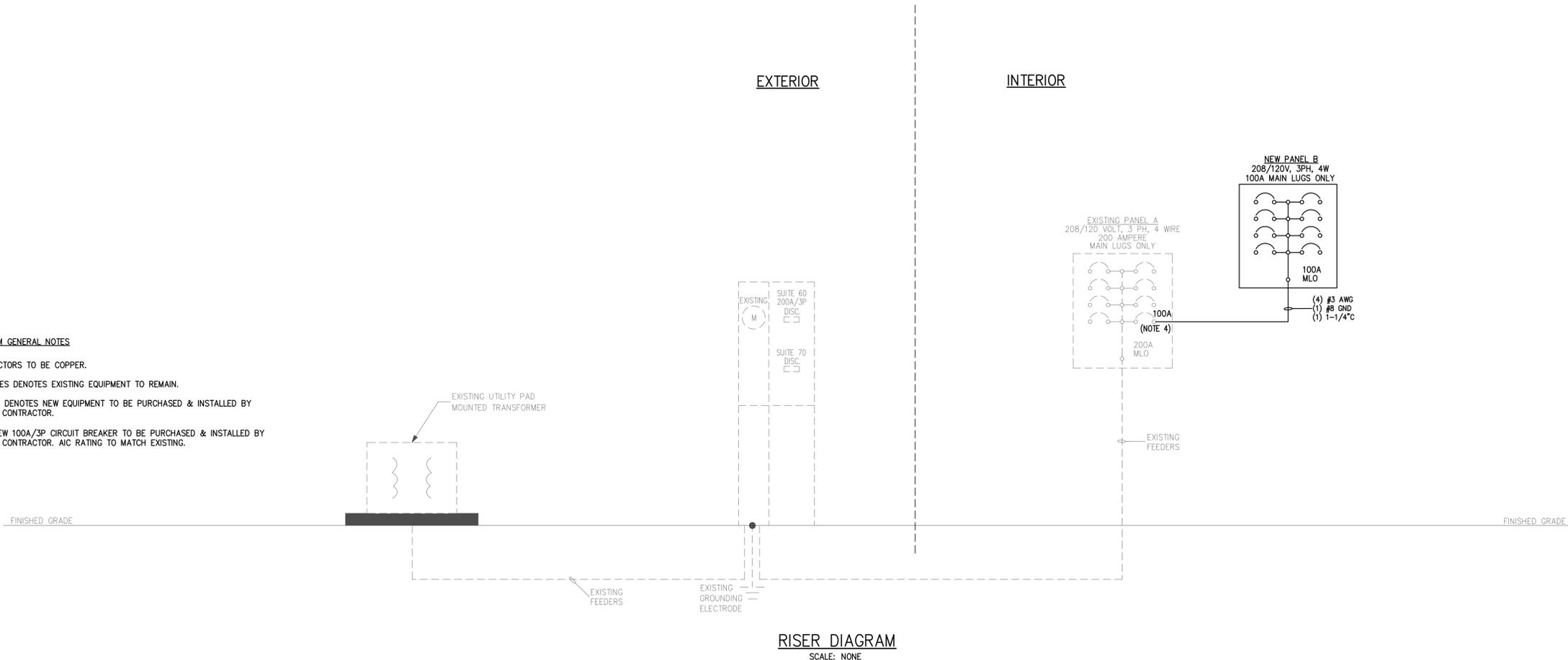
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
- PROVIDE TYPED PANEL SCHEDULE.
- ALL CIRCUIT BREAKERS NOTED AS SPARE TO BE IN THE OFF POSITION.

GFI DENOTES GFCI TYPE BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.

PHASE A	7077		
PHASE B		5615	
PHASE C			5773
TOTAL VA	18465		
CONNECTED AMPERAGE	52 AMPERES		

EXTERIOR

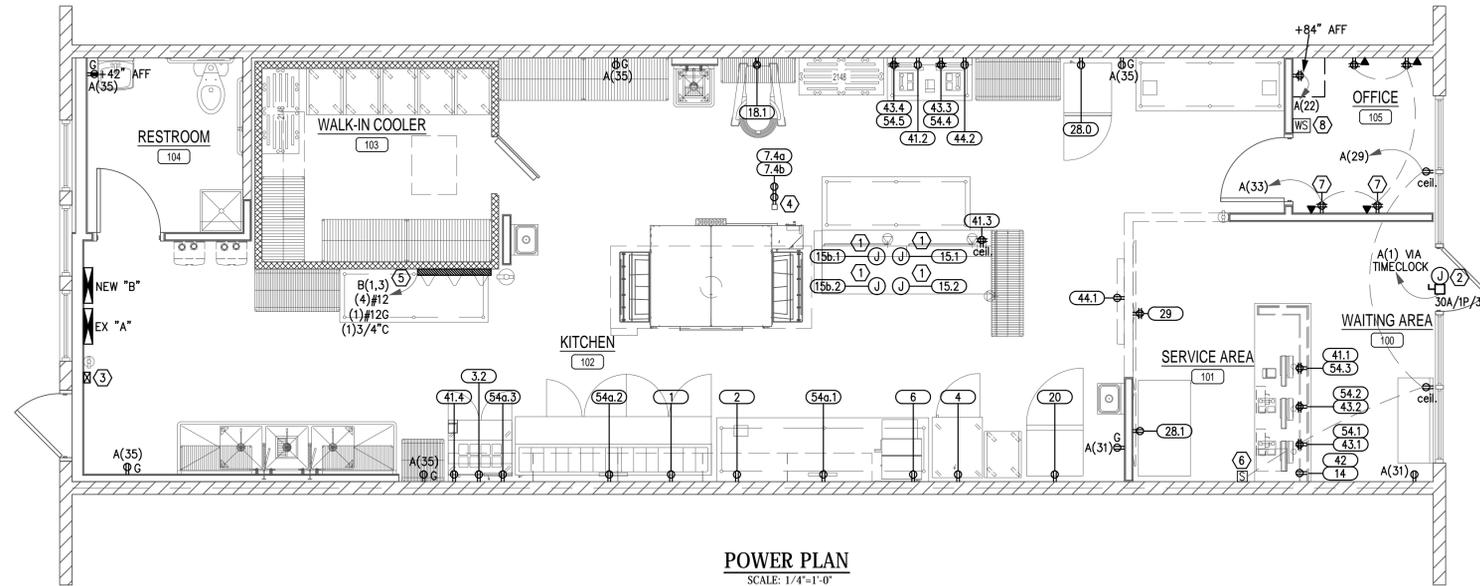
INTERIOR



RISER DIAGRAM
 SCALE: NONE

RISER DIAGRAM GENERAL NOTES

- ALL CONDUCTORS TO BE COPPER.
- DASHED LINES DENOTES EXISTING EQUIPMENT TO REMAIN.
- SOLID LINES DENOTES NEW EQUIPMENT TO BE PURCHASED & INSTALLED BY ELECTRICAL CONTRACTOR.
- DENOTES NEW 100A/3P CIRCUIT BREAKER TO BE PURCHASED & INSTALLED BY ELECTRICAL CONTRACTOR. AIC RATING TO MATCH EXISTING.



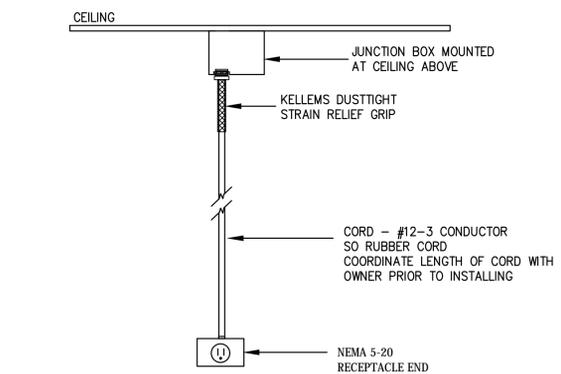
POWER PLAN
SCALE: 1/4"=1'-0"

GENERAL POWER PLAN NOTES:

- COORDINATE ALL KITCHEN EQUIPMENT JUNCTION BOXES, RECEPTACLES, AND DATA DEVICE BOX MOUNTING HEIGHTS WITH THE KITCHEN EQUIPMENT VENDOR AND DRAWINGS.
- ALL 120V, 1P 15 & 20 AMP RECEPTACLES IN THE KITCHEN AREA SHALL BE GFCI TYPE AND MOUNTED IN A READILY ACCESSIBLE LOCATION. READILY ACCESSIBLE IS DEFINED AS NOT HAVING TO MOVE ANY EQUIPMENT IN ORDER TO RESET OR TEST THE GFCI RECEPTACLE.
- VERIFY ALL PLUG CONFIGURATIONS AND MOUNTING HEIGHTS OF ALL KITCHEN EQUIPMENT OUTLET BOXES WITH FOOD SERVICE EQUIPMENT CONTRACTOR BEFORE INSTALLATION OF CONDUIT AND WIRING.
- ELECTRICAL CONTRACTOR TO INSTALL STAINLESS STEEL BLACK FINISH DEVICE PLATES FOR ALL DEVICES IN KITCHEN.
- ELECTRICAL CONTRACTOR TO VERIFY ELECTRICAL REQUIREMENTS OF WALK-IN COOLER/FREEZER BEFORE PURCHASING BREAKER, CONDUIT, AND WIRING.
- ELECTRICAL CONTRACTOR SHALL NOT PENETRATE ROOF OF WALK-IN COOLER/FREEZER.
- WHERE PORTIONS OF A RACEWAY ARE SUBJECT TO DIFFERENT TEMPERATURES, AND WHERE CONDENSATION IS KNOWN TO BE A PROBLEM, AS IN COOLER AND FREEZER APPLICATIONS OR WHERE PASSING FROM WARM TO COLD AREAS, ELECTRICAL CONTRACTOR TO FILL THE RACEWAY WITH AN APPROVED MATERIAL TO PREVENT CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH OWNER REGARDING EXTERIOR SIGNAGE VOLTAGE/AMPACITY REQUIREMENTS BEFORE PURCHASING AND INSTALLING CONDUIT, WIRE AND CIRCUIT BREAKERS. COORDINATE CONTROL OF SIGNAGE WITH OWNER/TENANT.
- ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN/FOOD PREP AREA SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER THE REQUIREMENTS OF NEC ARTICLE 210.8(B). FOR EACH CIRCUIT SHOWING "GFCI" THE ELECTRICAL CONTRACTOR SHALL PROVIDE EITHER GFCI CIRCUIT BREAKERS OR RECEPTACLES THAT WILL MEET THE "READILY ACCESSIBLE" REQUIREMENT.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, RECEPTACLES, CONCEALED WIRING, ETC. TO KITCHEN EQUIPMENT AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL CORDS, FITTINGS, BOXES, CORD GRIPS, PLUGS, CABLES, ETC. ON EQUIPMENT REQUIRING SUCH ITEMS.

KEYED POWER PLAN NOTES:

- 1 DENOTES NEW 5-20 RECEPTACLE WRED FROM ABOVE TO PROVIDE POWER TO OVERHEAD FOOD WARMERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO INSTALLING. PROVIDE 8" SLACK OF CABLE. SEE POWER DROP DETAIL BELOW FOR MORE DETAILS.
- 2 DENOTES JUNCTION BOX INTEGRAL TO SIGN WITH EXTERNAL DISCONNECT SWITCH. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO INSTALLING. EXTERIOR SIGNAGE TO BE WIRED THRU INTERMATIC TIMER.
- 3 DENOTES NEW TIME CLOCK TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE POWER FROM PANEL A CIRCUIT (5) WITH (2)#12, #12G IN 3/4" CONDUIT. TIME CLOCK TO BE INTERMATIC CATALOG #GM40AV OR APPROVED EQUAL.
- 4 ELECTRICAL CONTRACTOR TO PROVIDE A VERTICALLY-MOUNTED UNISTRUT "POLE" FOR ELECTRICAL COMPONENTS NECESSARY FOR THE OVEN. CONNECT HOMERUN CIRCUIT VIA CONTACTOR OR RELAY. CONTACTOR/RELAY TYPE SHALL BE IN NORMALLY CLOSED STATE, CONNECT TRIGGER CIRCUIT TO DRY CONTACT OF SUPPRESSION SYSTEM. WHEN THE SUPPRESSION SYSTEM IS ACTIVATED, DRY CONTACTS SHALL ENERGIZE THE COIL OF CONTACTOR/RELAY TO SHUT OFF POWER TO THE OVEN RECEPTACLES. PRIOR TO ORDERING/ROUGHING MATERIAL, COORDINATE WITH HOOD SUPPRESSION INSTALLER FOR EXACT REQUIREMENTS.
- 5 DENOTES 5"-0" PLUGMOLD WITH RECEPTACLES MOUNTED 6" O.C.. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/GENERAL CONTRACTOR PRIOR TO INSTALLING. ELECTRICAL CONTRACTOR TO PROVIDE WIREMOLD FINISH-20GBA506 (OR EQUAL).
- 6 ELECTRICAL CONTRACTOR TO ADD A NOTE TO SWITCHBANK NEAR THE LIGHTING SWITCHES AND LABEL THE FACE PLATE "STORE FRONT SIGNS."
- 7 DENOTES SPLIT-WIRED QUADRAPLEX. WIRE RECEPTACLE THROUGH WALL MOUNTED OCCUPANCY SENSOR AS INDICATED.
- 8 ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL WALL MOUNTED OCCUPANCY SENSOR TO CONTROL SPLIT WIRED RECEPTACLES. COORDINATE EXACT PLACEMENT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.



POWER DROP DETAIL (KEYED NOTE 1)
NO SCALE

ITEM	DESCRIPTION	PANEL-KT#	CB/#POLES	VOLTAGE/PH	WIRE-CONDUIT	ELECTRICAL CONNECTION	NOTES
1	REFRIGERATOR, PIZZA PREP	A(8)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R EATON TR780W RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 44" AFF TO CENTER OF BOX.
2	SCALE, PORTION, DIGITAL	A(24)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 44" AFF TO CENTER OF BOX.
3.2	REFRIGERATOR, SANDWICH/SALAD PREP.	A(10)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R EATON TR780W RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 50" AFF TO CENTER OF BOX.
4	DISPLAY CASE, REFRIGERATED	A(12)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 82-1/4" AFF TO CENTER OF BOX.
6	DOUGH ROLLER	A(14)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 44" AFF TO CENTER OF BOX.
7.4a	OVEN, CONVEYOR	A(17)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-20R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 25" AFF TO CENTER OF BOX.
7.4b	OVEN, CONVEYOR	A(19)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-20R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 44" AFF TO CENTER OF BOX.
14	SAFE	A(26)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
15.1	WARMER, FOOD OVERHEAD	B(2)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	SEE KEYED NOTE 1 AND DETAIL BELOW	SEE KEYED NOTE 1 AND DETAIL BELOW
15.2	WARMER, FOOD OVERHEAD	B(4)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	SEE KEYED NOTE 1 AND DETAIL BELOW	SEE KEYED NOTE 1 AND DETAIL BELOW
15b.1	WARMER, FOOD OVERHEAD	B(6)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	SEE KEYED NOTE 1 AND DETAIL BELOW	SEE KEYED NOTE 1 AND DETAIL BELOW
15b.2	WARMER, FOOD OVERHEAD	B(8)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	SEE KEYED NOTE 1 AND DETAIL BELOW	SEE KEYED NOTE 1 AND DETAIL BELOW
18.1	MIXER, FLOOR	A(23,25,27)	20A/3P	208V/3PH	(3)#12,#12G-3/4"C	PROVIDE NEMA L15-20R RECEPTACLE, PLUG, AND CORD.	MOUNT RECEPTACLE 36" AFF TO CENTER OF BOX.
20	FREEZER	A(16)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
28.0	DISPLAY CASE, REFRIGERATED	A(18)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
28.1	DISPLAY CASE, REFRIGERATED	A(20)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
29	MENU BOARD SYSTEM	A(32)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 99" AFF TO CENTER OF BOX.
41.1	RECEIPT PRINTER	A(28)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
41.2	RECEIPT PRINTER	A(34)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
41.3	RECEIPT PRINTER	A(32)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	CEILING MOUNTED.
41.4	RECEIPT PRINTER	A(24)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 50" AFF TO CENTER OF BOX.
42	REPORT PRINTER	A(26)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
43.1	PHONE	A(26)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
43.2	PHONE	A(28)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
43.3	PHONE	A(30)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
43.4	PHONE	A(30)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
44.1	TV - WALL MOUNTED	A(32)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 96" AFF TO CENTER OF BOX.
44.2	TV - WALL MOUNTED	A(34)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 96" AFF TO CENTER OF BOX.
54.1	POS / COMPUTER	A(26)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
54.2	POS / COMPUTER	A(28)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
54.3	POS / COMPUTER	A(28)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
54.4	POS / COMPUTER	A(30)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
54.5	POS / COMPUTER	A(30)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
54a.1	BUMP SCREEN	A(24)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 96" AFF TO CENTER OF BOX.
54a.2	BUMP SCREEN	A(24)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 96" AFF TO CENTER OF BOX.
54a.3	BUMP SCREEN	A(24)	20A/1P	120V/1PH	(2)#12,#12G-3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 96" AFF TO CENTER OF BOX.

NOTE: COORDINATE ALL MOUNTING HEIGHTS WITH OWNER PRIOR TO INSTALL.



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REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

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PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

POWER PLAN

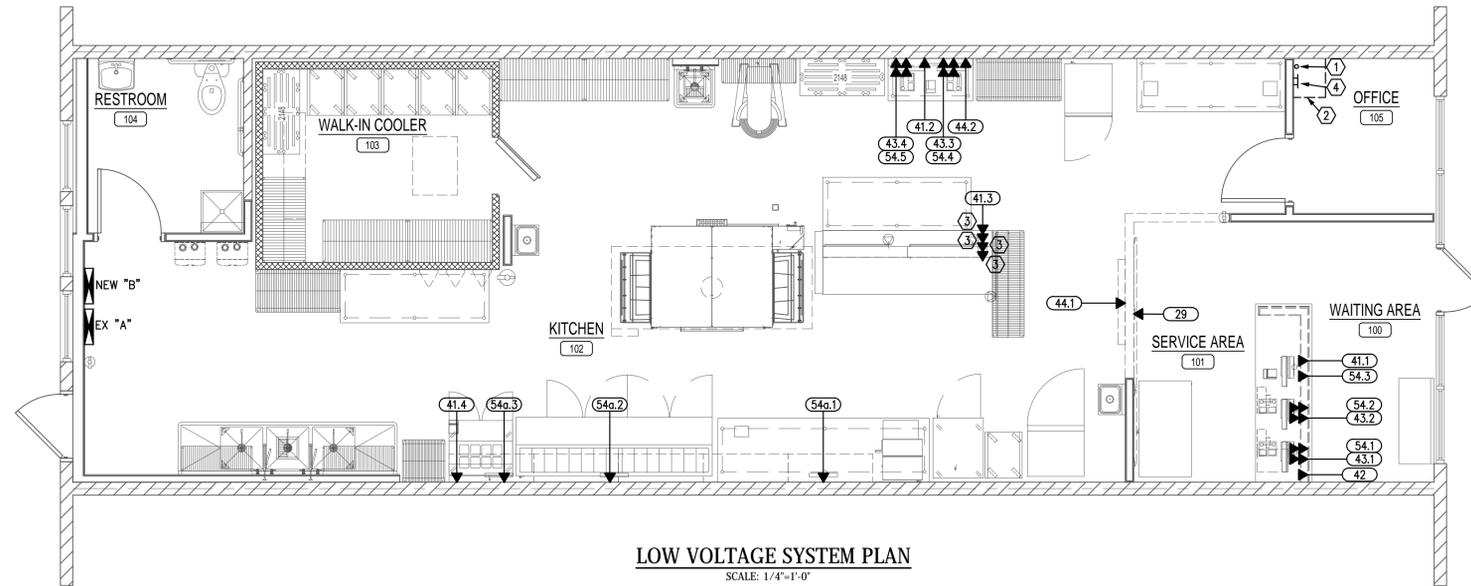
PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

E-3.0

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LOW VOLTAGE SYSTEM PLAN
 SCALE: 1/4"=1'-0"

DATA WIRING SCHEDULE		
ITEM	DESCRIPTION	MOUNTING HEIGHT
29	MENU BOARD AND ILLUMINATED LOGO	+99" AFF
41.1	RECEIPT PRINTER	+24" AFF
41.2	RECEIPT PRINTER	+48" AFF
41.3	RECEIPT PRINTER	CEILING MOUNTED.
41.4	RECEIPT PRINTER	+50" AFF
42	REPORT PRINTER	+24" AFF
43.1	PHONE	+24" AFF
43.2	PHONE	+24" AFF
43.3	PHONE	+48" AFF
43.4	PHONE	+48" AFF
44.1	TV - WALL MOUNTED	+96" AFF
44.2	TV - WALL MOUNTED	+96" AFF
54.1	POS / COMPUTER	+24" AFF
54.2	POS / COMPUTER	+24" AFF
54.3	POS / COMPUTER	+24" AFF
54.4	POS / COMPUTER	+48" AFF
54.5	POS / COMPUTER	+48" AFF
54a.1	BUMP SCREEN	+96" AFF
54a.2	BUMP SCREEN	+96" AFF
54a.3	BUMP SCREEN	+96" AFF

CABLE SPECIFICATIONS

- 6 CABLE RUNS PER POS STATION (POS, EMV, PHONE, PRINTER, 2 EXTRA FOR REDUNDANCY)
 4 STATIONS MIN 24 CABLES
- CABLES FOR CAMERA SYSTEM - MIN 4 CABLES
- CABLES FOR BUMPS/KITCHEN MONITORS - MIN 3 CABLES (2 EXTRA CABLES CAN BE ADDED FOR REDUNDANCY)
- CABLES FOR MENU BOARDS - MIN 3 CABLES (1 EXTRA CABLE CAN BE ADDED FOR REDUNDANCY)
- CABLES FOR KITCHEN PRINTERS (SALAD, CUT, DRIVER STATION) - MIN 3 CABLES (1 EXTRA CABLE CAN BE ADDED FOR REDUNDANCY)
- (OPTIONAL) ALARM SYSTEM AND OTHER MEDIA (4)

GENERAL LOW VOLTAGE SYSTEM PLAN NOTES:

1. TELEPHONE AND DATA WIRING TERMINATIONS ARE TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
2. ALL DATA CABLING SHALL BE PLENUM RATED CAT6.
3. SUPPORT ALL CABLES WHETHER THEY ARE BUNDLED OR INDIVIDUAL.
4. THERE SHALL BE NO CABLING LYING ON THE CEILING, CEILING GRID, CONDUIT, WATER PIPES, OR DUCT WORK. NO CABLES TIED TO OR SUPPORTED FROM CEILING GRID SUPPORTS ELECTRICAL CONDUIT, WATER PIPES, OR DUCT WORK.
5. ALL DATA LINES TO USE CAT6 RJ-45 CONNECTORS COMPATIBLE WITH 568B WIRING AND MUST BE LABELED ON BOTH ENDS. USE SINGLE 48 PORT PATCH PANEL, OR (2) 24 PORT PATCH PANELS. COORDINATE LABELING WITH MARCOS VENDOR.
6. ALL CABLES SHOULD BE TERMINATED AT THE PATCH PANEL ON THE NETWORK CABINET/RACK AND WHEREVER EACH EQUIPMENT IS LOCATED THROUGHOUT THE STORE.
7. PATCH CABLES TO BE NEATLY INSTALLED IN NETWORK CABINET USING LENGTH APPROPRIATE CABLES AND WIRE MINDERS WHEN NEEDED.

KEYED LOW VOLTAGE SYSTEM PLAN NOTES:

- ① PROVIDE (1) 2" CONDUIT WITH PULL STRING FOR PHONE/FIBER SERVICE. ROUTE CONDUIT TO LANDLORDS PHONE/FIBER DISTRIBUTION LOCATION. COORDINATE LOCATION WITH UTILITY COMPANY/LANDLORD PRIOR TO INSTALLING.
- ② DENOTES NAVEPOINT 12U WALL MOUNT SERVER CABINET NETWORK RACK ENCLOSURE WITH AT LEAST ONE COOLING FAN, LOCKING GLASS DOOR AND ONE 48 PORT PATCH PANEL. TRENDNET #TC-P4806 OR COMPARABLE UL RATED PATCH PANEL. MOUNT ENCLOSURE TO 2'X2' PLYWOOD. COAT ALL SIX SIDES WITH FIRE RETARDANT PAINT.
- ③ DENOTES CEILING MOUNTED DATA OUTLET. COORDINATE FINAL LOCATION OF OUTLET AFTER CUT TABLE IS IN PLACE.
- ④ PROVIDE TELEPHONE GROUNDING BUS IN OFFICE. GROUND BAR TO BE 1/4"X4"X1/8" 98% CONDUCTIVE COPPER INSTALLED ON 600 VOLT PORCELAIN INSULATOR MOUNTED AT 84" AFF. CONNECT TO BUILDING GROUNDING SYSTEM.

REVISIONS:

NO.	DATE	DESCRIPTION	BY
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FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
 6038 LYNC CREEK CIRCLE
 FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
 9760 GRANT STREET - SUITE 60
 THORNTON, COLORADO 80229

SHEET TITLE:

LOW VOLTAGE SYSTEM PLAN

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

E-3.1

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PROJECT NAME:



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SHEET TITLE:

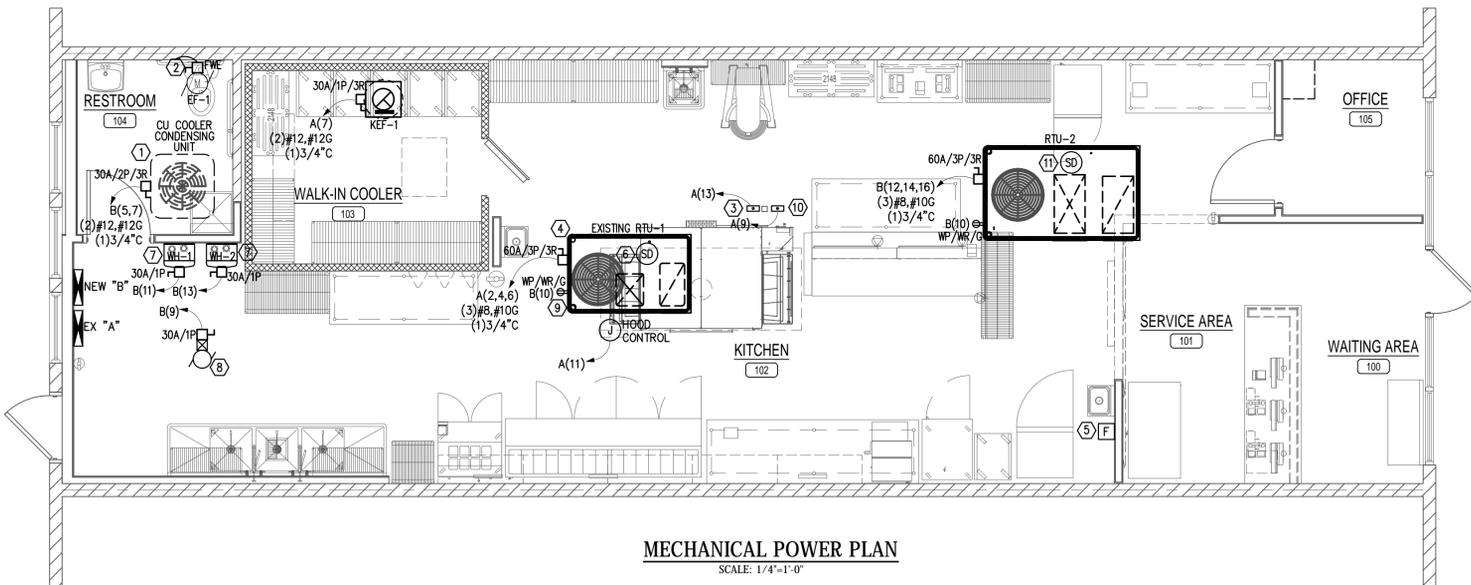
MECHANICAL
 POWER PLAN

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

E-4.0



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

GENERAL MECHANICAL POWER PLAN NOTES:

- ELECTRICAL CONTRACTOR TO VERIFY ELECTRICAL REQUIREMENTS OF WALK-IN COOLER BEFORE PURCHASING BREAKER, CONDUIT, AND WIRING.
- ELECTRICAL CONTRACTOR SHALL NOT PENETRATE ROOF OF WALK-IN COOLER/FREEZER.
- WHERE PORTIONS OF A RACEWAY ARE SUBJECT TO DIFFERENT TEMPERATURES, AND WHERE CONDENSATION IS KNOWN TO BE A PROBLEM, AS IN COOLER AND FREEZER APPLICATIONS OR WHERE PASSING FROM WARM TO COLD AREAS, ELECTRICAL CONTRACTOR TO FILL THE RACEWAY WITH AN APPROVED MATERIAL TO PREVENT CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY.
- "FWE" ADJACENT TO DEVICE DENOTES FURNISHED WITH EQUIPMENT.
- ELECTRICAL CONTRACTOR TO VERIFY EXACT ELECTRICAL REQUIREMENTS WITH NAMEPLATE DATA ON UNIT PRIOR TO PURCHASING & INSTALLING WIRING AND CONDUIT.
- "ex" ADJACENT TO DEVICE DENOTES EXISTING DEVICE TO REMAIN.

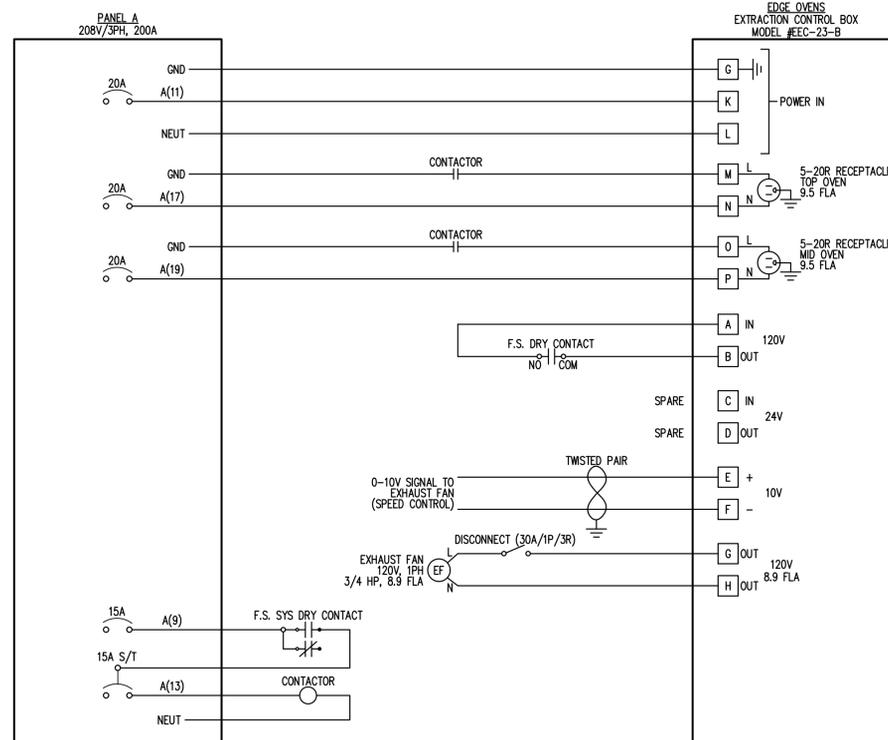
KEYED MECHANICAL POWER PLAN NOTES:

- WALK-IN COOLER CONDENSING UNIT TO BE ROOF MOUNTED. COOLER PROVIDED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR, AND POWERED BY ELECTRICAL CONTRACTOR.
- EXHAUST FAN TO BE INTERLOCKED WITH LIGHTING CIRCUIT IN RESTROOMS. SEE SHEET E-5.0 FOR CIRCUIT DESIGNATION.
- DENOTES HOOD CONTACTOR SHUT-DOWN. COORDINATE WITH OWNER AND EQUIPMENT PROVIDER FOR LOCATION PRIOR TO INSTALLING.
- DENOTES EXISTING ROOFTOP UNIT RTU-1 WITH EXISTING DISCONNECT SWITCH TO REMAIN AND BE REWIRED AS INDICATED.
- DENOTES MANUAL ACTUATION DEVICE FOR HOOD FIRE SUPPRESSION SYSTEM. SEE SHEET E-6.0 FOR DETAIL.
- FIRE ALARM CONTRACTOR TO VERIFY THAT EXISTING UNIT HAS EXISTING DUCT SMOKE DETECTION DEVICE. IF DEVICE IS PRESENT, REPROGRAM FIRE ALARM CONTROL PANEL AS REQUIRED. IF DEVICE IS NOT PRESENT, FIRE ALARM CONTRACTOR TO PROVIDE AND WIRE DUCT SMOKE DETECTOR DEVICE AS INDICATED. DEVICE TO BE INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE UNIT SHUTDOWN WITH MECHANICAL CONTROLS CONTRACTOR. THIS SCOPE OF WORK TO BE HANDLED UNDER A SEPARATE CONTRACT WITH THE OWNER, SHOWN FOR REFERENCE ONLY.
- DENOTES TANKLESS WATER HEATER MOUNTED ON INTERIOR WALL AS SHOWN. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR PRIOR TO INSTALLING.
- ELECTRICAL CONTRACTOR TO VERIFY CONTROL OF CIRCULATION PUMP WITH PLUMBING CONTRACTOR. IF NECESSARY, ELECTRICAL CONTRACTOR TO PURCHASE & INSTALL DISCONNECT SWITCH & DEFINITE PURPOSE CONTACTOR FOR CIRCULATION PUMP. COORDINATE COIL VOLTAGE WITH MECHANICAL CONTROLS CONTRACTOR. POWER WIRING BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTROLS CONTRACTOR.
- ELECTRICAL CONTRACTOR TO VERIFY THAT EXISTING MAINTENANCE RECEPTACLE IS INSTALLED ON EXISTING ROOFTOP UNIT. IF RECEPTACLE IS PRESENT, ELECTRICAL CONTRACTOR TO REWIRE AS INDICATED. IF DEVICE IS NOT PRESENT, ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL NEW HVAC MAINTENANCE RECEPTACLE AND WIRE AS INDICATED.
- DENOTES ANSUL SYSTEM FIRE PROTECTION SYSTEM CONTROLLER. COORDINATE WITH OWNER AND EQUIPMENT PROVIDER FOR LOCATION PRIOR TO INSTALLING.
- DENOTES NEW DUCT SMOKE DETECTOR PROVIDED BY FIRE ALARM CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY FIRE ALARM CONTRACTOR. COORDINATE UNIT SHUT DOWN WITH MECHANICAL CONTROLS CONTRACTOR. THIS SCOPE OF WORK TO BE HANDLED UNDER A SEPARATE CONTRACT WITH THE OWNER, SHOWN FOR REFERENCE ONLY.

OVEN/HOOD WIRING DETAIL NOTES:

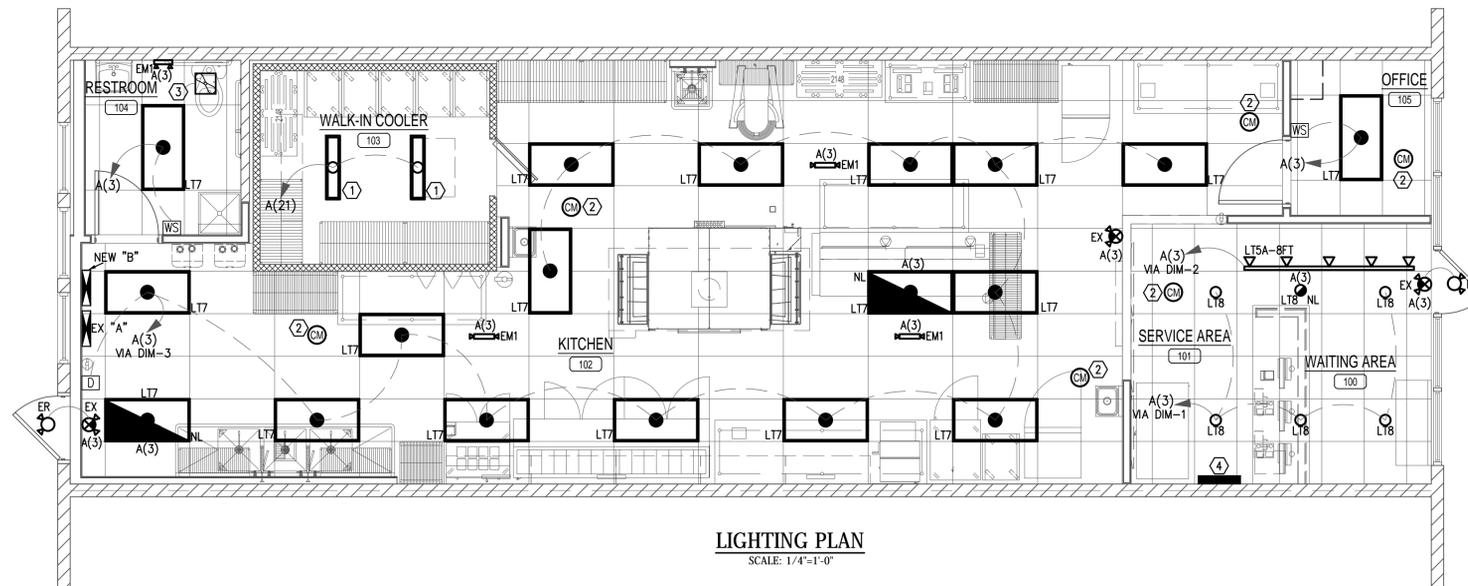
- THIS WIRING DETAIL IS TO BE UTILIZED IN CONJUNCTION WITH THE EDGE OVEN MODEL EEH-23-3870 OVEN & HOOD CONTROL BOX MODEL EEL-23-B.
- ELECTRICAL CONTRACTOR TO COORDINATE AND VERIFY ALL ELECTRICAL INSTALLATION REQUIREMENTS WITH THE OVEN & HOOD INSTALLATION CONTRACTOR.
- ELECTRICAL CONTRACTOR TO WIRE ALL OVEN & HOOD COMPONENTS & INTERCONNECTION WIRING AS REQUIRED TO MAKE A COMPLETE AND WORKING CODE COMPLIANT HOOD SYSTEMS.
- OVENS SHALL DE-ENERGIZE IN THE EVENT THE FIRE SUPPRESSION SYSTEM IS ACTIVATED. HOOD EXHAUST FAN SHALL REMAIN ENERGIZED. PROVIDE A SIGNAL TO THE FIRE ALARM HORN/STROBE.
- ALL CIRCUITS TO BE WIRED WITH (2)#12,#12G UNLESS NOTED OTHERWISE.

"FS" - DENOTES FIRE SUPPRESSION SYSTEM
 "FWE" - DENOTES DEVICE FURNISHED WITH EQUIPMENT



OVEN/HOOD WIRING DETAIL
 NO SCALE

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

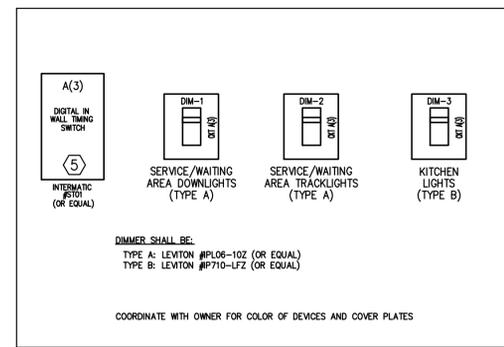
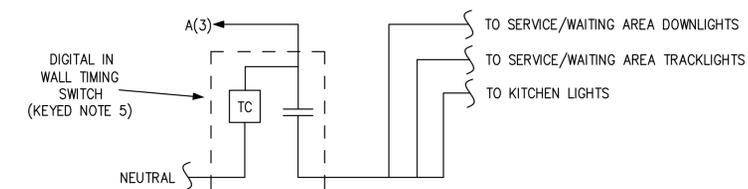


GENERAL LIGHTING PLAN NOTES:

- ALL LIGHT FIXTURES SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7.
- ALL LAY-IN LIGHT FIXTURES (RECESSED IN CEILING) SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON TWO DIAGONAL CORNERS ATTACHED TO THE BUILDING STRUCTURE OR HURRICANE CLIPS FOR SEISMIC RESTRAINT.
- ALL CIRCUITS WIRED WITH #12 AWG SIZE WIRE UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL WIRE ALL EMERGENCY EGRESS FIXTURES AND EXIT SIGNS UN-SWITCHED TO LIGHTING CIRCUIT IN ROOM WHERE EGRESS FIXTURE IS LOCATED.
- PROVIDE ALL REQUIRED INSTALLATION ACCESSORIES FOR THE FIXTURES AS REQUIRED FOR THE SPECIFIED LOCATION. SUCH ACCESSORIES SHALL INCLUDE, IN GENERAL, RINGS AND FLANGES, CANOPIES, STEM HANGERS, SUSPENSION, STRAPS, AND PLASTER FRAMES.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL LOW VOLTAGE WIRING TO MAKE A COMPLETE WORKING DIMMING SYSTEM.
- HALF SHADED LIGHT FIXTURES WITH AN "NL" BESIDE THEM DENOTES NIGHT LIGHT. WIRE FIXTURE "HOT" (UNSWITCHED).

KEYED LIGHTING PLAN NOTES:

- DENOTES LIGHTING FOR WALK-IN COOLER TO BE PURCHASED BY MANUFACTURER. ELECTRICAL CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO LIGHTING IN WALK-IN COOLER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ANY ROUGH-IN WORK.
- DENOTES CAMERAS TO BE PURCHASED BY SECURITY CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE ALL MOUNTING LOCATIONS AND REQUIREMENTS WITH SECURITY CONTRACTOR/TENANT PRIOR TO ANY ROUGH-IN WORK.
- ELECTRICAL CONTRACTOR TO INTERLOCK OPERATION OF EXHAUST FAN WITH CONTROLS OF LIGHTS IN RESTROOM.
- PROVIDED LIGHTING CONTROL SWITCHBANK, SEE SWITCHBANK DETAIL ON RIGHT. ELECTRICAL CONTRACTOR TO VERIFY SWITCHBANK WILL FIT WITHIN SPECIFIED AREA AND STACK MULTIPLE SWITCHBANKS AT THIS LOCATION IF A SINGLE SWITCHBANK WILL NOT FIT WITHIN THE SPECIFIED REGION.
- PROVIDE DIGITAL IN-WALL TIMER SWITCH, PROGRAMMABLE 7 DAY CONTROL LITHIUM BATTERY BACKUP FOR TIMEKEEPING. MANUAL OVERRIDE CONTROL FOR MAXIMUM 2 HOURS. EQUAL TO INTERMATIC ST01 SERIES. ADJUST TO ON/OFF SCHEDULE DIRECTED BY AUTHORIZED REPRESENTATIVE FOR TENANT.



LIGHT FIXTURE SWITCHING STATION DETAIL (SWITCHBANK)
NOT TO SCALE

REVISIONS:

NO.	DATE	DESCRIPTION	BY

FRANCHISEE NAME:

SINGH CHEESE, LLC

HARMAN SINGH
6038 LYNC CREEK CIRCLE
FREDERICK, COLORADO 80516

PROJECT NAME:



HIGH POINTE RETAIL
9760 GRANT STREET - SUITE 60
THORNTON, COLORADO 80229

SHEET TITLE:

LIGHTING PLAN

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

E-5.0

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTUAL CONDITIONS, CONSTRUCTION AND/OR USE THEREOF. THIS DRAWING IS TO CONVEY DESIGN INTENTIONS AND/OR CODE COMPLIANCE ONLY. USE OF THESE DRAWINGS IMPLIES AGREEMENT WITH THESE CONDITIONS. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS.

ELECTRICAL SPECIFICATIONS

General Provisions

- All Electrical work shall be executed in accordance with the 2020 version of the National Electrical Code and all other local codes, laws, and ordinances. Where one code differs from another, the stricter of the two shall apply.
- It is the duty of the Electrical contractor to be familiar with the construction details of the building. The contractor shall coordinate the installation of the electrical system with all other trades and shall complete the electrical installation as soon as conditions will allow.
- Payment of all fees, permits, and licenses required to complete the electrical installation shall be the responsibility of the electrical contractor.
- All work shall be done in a neat, quality manner with all wiring and raceways concealed.
- All electrical work shall be warranted by the electrical contractor for one (1) year from the date of acceptance by the owner or his designated representative.
- All electrical drawings are generally diagrammatic in nature. The electrical contractor shall closely coordinate all electrical work with all other trades working on the premises.
- Electrical contractor shall submit five (5) sets of catalog cuts, brochures, or other technical data for all equipment furnished under this contract to the architect for his review.
- All requests for prior approval shall be submitted to the engineer no later than ten (10) days prior to the bid date unless noted as "approved equal" in a written addendum. All manufacturers shall be specified herein or as shown on the contract documents.
- See general notes, schedules, and legends on the electrical drawing set for any additional requirements to the contract.
- Electrical contractor is to contact the architect after installation of all switch, receptacle, telephone, television, and lighting boxes for an on-site review before any wiring is installed or wall surfaces are complete. The architect may, at this point, make adjustments to the box locations as desired.
- All electrical panelboards and lighting equipment shall be restrained per seismic requirements of the appropriate building code in effect.

Electrical Raceways

- All cutting and patching required for and resulting from the electrical installation work shall be patched and repaired to restore the original surface finish. This repair work is the responsibility of the electrical contractor.
- Contractor shall install sleeves for conduits that pass through grade beams, foundations, walls, and slabs before concrete is poured. Contractor shall do all necessary cutting and sealing afterwards in an approved manner.
- All penetrations through fire-rated walls shall be patched with a UL approved fire sealant equal to at least the rating of the wall.
- Wiring system is to be concealed above the suspended ceiling or in walls where possible. Conduit is to be installed parallel to building lines and clear of all openings, depressions, pipes, ducts, structure, etc.
- Conduit is to be installed between cabinets and boxes with no more than four (4) 90 degree bends. Conduit is to be securely fastened in place with straps, hangers and steel supports as required. Conduit is not to be fastened or supported from the ceiling grid or supporting wires. Conduit ends shall be reamed and conduit shall be thoroughly cleaned before installation. Openings in conduit shall be plugged or properly covered.
- Terminals on switches and outlets shall not be used to "feed through" to the next switch or outlet. The removal of a receptacle or fixture or any other device fed from a box shall not interfere with conductor continuity.
- Conduit shall be furnished as shown on the electrical drawings. Approved types are heavy wall rigid steel hot dipped galvanized or EMT with compression type fittings and connections. All runs shall be continuous with all joints and connections pulled tight. Conduit shall be required in and under all slabs and in masonry walls. PVC conduit may be used underground or under slabs. Minimum conduit size shall be 3/4".
- Contractor shall install a nylon pull wire in each empty conduit.
- Contractor to include an equipment grounding conductor in each conduit. Conductor size to be determined by National Electrical Code requirements.

Conductors

- Conductors shall be soft-annealed 98% copper. All conductors larger than #8 AWG shall be stranded. Minimum size conductor shall be #12 AWG unless otherwise specified. No aluminum conductors will be permitted. Type THHN shall not be used underground, outside, at service entrances or in wet locations. All insulation shall be rated at 600 volts.

The following insulation types are permitted:

#10 AWG and smaller THW, THWN, THW
 #8 AWG to #4/0 AWG THW, THHN
 Over 4/0 AWG THW
 Service Entrance USE, RHW
 Wire through fluorescent fixture or within 3' of heating equipment THHN

Conductors shall be color coded as follows:

	208/120 Volt Y	480/277 Volt Y
Phase A	Black	Brown
Phase B	Red	Orange
Phase C	Blue	Yellow
Neutral	White	White
Ground	Green	Green

Distribution

- Electrical power service voltage shall be as noted on the drawings. Size of the electrical service conductors shall be as shown on the riser diagram. All service connections and grounding detail shall be per the National Electrical Code article 250 and shall be inspected before covering.
- Contractor shall comply with the 2020 National Electrical Code and all laws that apply to electrical installations.
- All material used on the project shall be new and conform to Underwriters Laboratories (UL) standards.
- Contractor to verify voltage drops and A.I.C. ratings for all equipment connected and verify the size of all electrical system breakers, conduit, wire size, etc.

Grounding

- All metallic conduit, supports, cabinets, panelboards, and other electrical system components shall be permanently grounded per the National Electrical Code. All grounding devices and clamps shall be of the type approved specifically for grounding use. All circuits shall include a grounding conductor sized per National Electrical Code requirements.

Panelboards

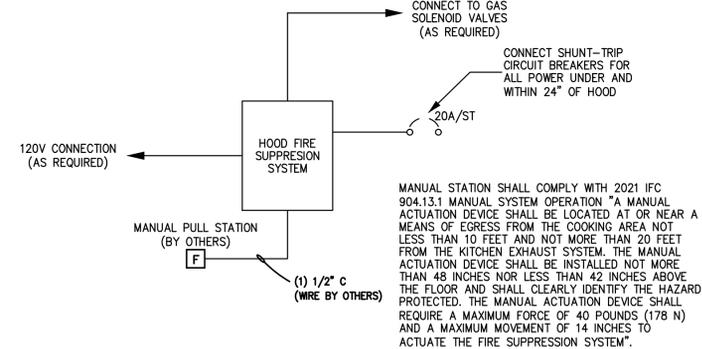
- Receptacle and lighting panels shall be safety dead-front type. Bussing and breakers shall be as shown on panelboard drawing. Panels shall be supplied with copper plated bus. Cabinets shall be NEMA type 1. Contractor to supply nameplates and type-written panel schedules. Panel shall be manufactured by Square D General Electric, Cutler Hammer or approved equal.
- All circuit breakers must show positive indication of tripped breaker.
- Switches shall be heavy-duty type fusible or non-fusible as specified on drawing. Operating mechanism shall be designed to provide quick-make and quick-break operation. Construction shall consist of silver-plated operating parts with safety interlock on door to prevent entry when in "on" position. Indoor enclosures shall be NEMA type 1. Outdoor enclosures shall be type NEMA 3R. Fuse clips shall be for type RK-1 fuses. Disconnect switches shall be manufactured by Square D, General Electric, Cutler Hammer or approved equal.
- All electrical equipment, panels, switches, etc., shall be tagged with white plastic nameplates with 1/4"H black letters. Nameplate shall show equipment designation and operating voltage.

Lighting Equipment

- Lighting fixtures shall be of the type shown in the lighting fixture schedule.
- Exit lamps shall be provided at all exterior doors. All emergency and exit lights shall have self-contained battery back-up systems, or be of the type for use with emergency generator system if specified.

Devices and Boxes

- All outlet, lighting, and switch boxes shall be pressed steel where used in overhead and concealed areas. Receptacles and switches in exposed areas shall be installed in ferrous alloy or cast aluminum boxes with appropriate sheet steel covers.
- Local switches shall be quiet toggle type, Hubbell #1221 or approved equal (single pole) or Hubbell #1223 or approved equal (3-way) and shall be rated for 120/277 Volts. Duplex receptacles shall be Hubbell #5352 or approved equal, three wire grounding type with ground installed.
- All wall switches shall be 20 Ampere, silent type with cover plate.
- Duplex receptacles shall be 20 Ampere with cover plate.
- Unless otherwise indicated, all lighting switches shall be flush mounted 44" above finished floor or 7" above finished countertop.
- All receptacles shall be flush mounted 18" above finished floor or 7" above finished countertop unless otherwise indicated. Receptacles above countertops shall be mounted horizontally unless otherwise noted. Notify architect for configuration of location after boxes are set, but before wire is pulled or walls are constructed. Contractor shall certify that all receptacles are tested for proper polarity prior to final inspection.
- All telephone outlets shall be flush mounted 18" above finished floor unless otherwise indicated.
- Toilet exhaust fans shall be supplied and installed by the mechanical contractor. Wiring shall be done by the Electrical contractor.
- All low voltage wiring for HVAC controls shall be done by the mechanical contractor. All line voltage HVAC wiring shall be done by the electrical contractor. Electrical contractor shall review HVAC specifications and plans and coordinate with HVAC contractor to provide all requirements.
- All switch and receptacle cover plates to be brushed stainless steel unless otherwise specified by architect. Consult with architect before purchasing cover plates.



HOOD FIRE SUPPRESSION SYSTEM DETAIL
 SCALE: NONE

System No. W-L-1054

ANSI/UL 1479 (ASTM E814)	CANULC S115
F Ratings—1 and 2 Hr (See Items 1 and 3)	F Ratings—1 and 2 Hr (See Items 1 and 3)
T Rating—0 Hr	FT Rating—0 Hr
L Rating (Without Movement) at Ambient—Less Than 1 CFM/ft ²	PH Ratings—1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F—Less Than 1 CFM/ft ²	FTH Rating—0 Hr
M Rating (Movement)—See Table 1	FTH Rating—0 Hr
	L Rating at Ambient—Less Than 5.1 L/ft ²
	L Rating at 204°C—Less Than 5.1 L/ft ²

1. Wall Assembly—The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
 B. Gypsum Board—5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

Hilti Firestop Systems
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 Page: 1 of 2

System No. W-L-1054

- Through-Penetrants—One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 A. Steel Pipe—Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Iron Pipe—Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 C. Conduit—Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
 D. Copper Tubing—Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 E. Copper Pipe—Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
 F. Fill Void or Cavity Material—Sealant—Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.
 G. In the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC.—FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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 Page: 2 of 2



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REVISIONS:

NO.	DATE	DESCRIPTION	BY
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FRANCHISEE NAME:
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HARMAN SINGH
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 FREDERICK, COLORADO 80516

PROJECT NAME:
6077

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 THORNTON, COLORADO 80229

SHEET TITLE:

ELECTRICAL SPECIFICATIONS

PROJECT NUMBER 24-137

DATE 10-08-2024

SHEET NO.

E-6.0

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