REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:	FILE DIRECTLY ONLINE WITH DOB NOW HTTPS://A810-DOBNOW.NYC.GOV/PUBLISH/INDEX.HTML#!/	BUILDING DEPARTMENT:	FILE DIRECTLY ONLINE WITH DOB NOW HTTPS://A810-DOBNOW.NYC.GOV/PUBLISH/INDEX.HTML#!/	HEALTH DEPARTMENT:	NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE DIVISION OF ENVIRONMENTAL HEALTH BUREAU OF FOOD SAFETY AND COMMUNITY SANITATION (BFSCS) 253 BROADWAY, 6TH FLOOR, BOX CN-59A, NEW YORK, NY 10007 T: (212) 676-1600
FIRE DEPARTMENT:	NEW YORK CITY FIRE DEPARTMENT DEPARTMENT OF FIRE PREVENTION	WATER UTILITY:	NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION 59-17 JUNCTION BLVD. QUEENS, NY 11368 T: (718) 466-8481	SEWER UTILITY:	NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION 59-17 JUNCTION BLVD. QUEENS, NY 11368 T: (718) 466-8481
NATURAL GAS UTILITY:	N/A	ELECTRICAL UTILITY:	CON EDISON 12 GOLD STREET BROOKLYN, NY 11201 T: (800) 752-6633	TELEPHONE UTILITY:	VERIZON 1095 AVENUE OF AMERICAS NEW YORK, NY 10036 CONTACT: CUSTOMER SERVICE T: (800) 852-5700

PROJECT INFORMATION

LANDLORD:	MANAGING DIR/PARTNER 438 FIFTH AVENUE, SUITE 100 PELHAM, NY 10803 CONTACT: JOE APICELLA E: J.APICELLA@MACQUESTEN.COM T: (914) 319-5102	TENANT:	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: DANIEL RADMAN E: DRADMAN@CHIPOTLE.COM T: (203) 247-3636	ARCHITECT:	HBC ARCHITECTS P.C. 122 WEST 27TH STREET, 4TH FL NEW YORK, NEW YORK 10001 CONTACT: JOSEPH CORRIDORE E: JOSEPHC@HBCARCH.COM T: (212) 647-0011 T: (347) 821-3048
MECHANICAL ELECTRICAL PLUMBING ENGINEER:	POLARIS CONSULTING ENGINEERS 214 W MAIN STREET #208 MOORESTOWN, NJ 08057 CONTACT: STEPHEN CONNLAIN E: SCONNLAIN#POLARISCE.COM T: (856) 778-5400	SPRINKLER ENGINEER:	CCI- CODE CONSULTANTS PROFESIONAL ENGINEERS, PC 215 W 40TH STREET 10TH FLOOR NEW YORK, NY 10018 CONTACT: MATT AUSTIN E: MATTA@CODECONSULTANTS.COM T: (212) 216-9596		

UTILITY COORDINATOR

NOTE to GC:
FOR ALL WATER, SEWER, NATURAL GAS, & ELECTRICITY UTILITIES CONTACT:

EBI CONSULTING
21 B ST.
BURLINGTON, MA 01803
CONTACT: JULIO VERA
E: JVERA@EBICONSULTING.COM
T: (787) 344-1439

GRAPHIC SYMBOLS

- EXTERIOR ELEVATION MARKER (1 / A101 / 1)
- INTERIOR ELEVATION MARKER (1 / A101 / 1)
- SECTION MARKER (SIM / 1 / A101)
- SECTION / DETAIL (SIM / 1 / A101)
- VIEW LABEL (1 / A101 / View Name / View Scale)
- COLUMN GRID LABEL (0)
- ROOM NAME & NUMBER (Room name 101)
- REVISION NUMBER (1)
- DOOR NUMBER (1i)
- MISCELLANEOUS EQUIPMENT NUMBER (XX.X)
- FURNITURE NUMBER (XX.X)
- KITCHEN EQUIPMENT NUMBER (XX.X)
- WASHROOM ACCESSORIES NUMBER (X)
- WALL TAG (W1)
- LEVEL TARGET
- NORTH ARROW
- DIMENSION TARGET
- FINISH TAG (P1)

ABBREVIATIONS

℄	CENTER LINE
(E)	EXISTING CONSTRUCTION
(N)	NEW CONSTRUCTION
@	AT
Ø	DIAMETER OR ROUND
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ARCH	ARCHITECT(URAL)
ASS	ALARM SYSTEM SUPPLIER
BD	BOARD
BLDG	BUILDING
CMU	CONCRETE MASONRY UNIT
CO2	CO2 SUPPLIER
CO2AS	CO2 ALARM SUPPLIER
CS	CHEMICAL SUPPLIER
DIM	DIMENSION(S)
EA	EACH
EL	ELEVATION (VERTICAL HEIGHT)
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EQ	EQUAL
EXT	EXTERIOR
FC	FOR CONSTRUCTION
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT-TREATED
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP	GYPSUM
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	HOOD SUPPLIER
HVAC	HEATING AND VENTILATING
ICP	INITIAL COST PROJECTION
IFP	IN FOR PERMIT
INT	INTERIOR
KES	KITCHEN EQUIPMENT SUPPLIER
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MSS	MUSIC SYSTEMS SUPPLIER
N.I.C.	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
OSB	ORIENTED STRAND BOARD
POS	POINT OF SALE
PREP	PREPARATION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RADIUS
RTU	ROOF TOP UNITS
SIM	SIMILAR
SPS	SODA POP SUPPLIER
SS	SUPPORT SIGNAGE
STR	STRUCTURE
T	TENANT
TAB	TENANT'S TEST & BALANCE VENDOR
TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
THS	TENANT'S HARDWARE SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TS	TENANT'S SAFE SUPPLIER
TSS	TENANT'S SMART SAFE SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SUPPLIER
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
VAR	VARIES
VIF	VERIFY IN FIELD
W/	WITH
WA	WASHROOM ACCESSORIES
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	WATER HEATER SUPPLIER
WS	TENANT'S WINDOW SHADE SUPPLIER

STORE NUMBER: 31-4872

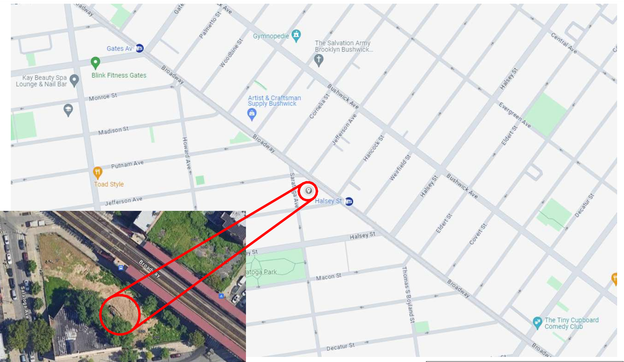
BEDFORD STUYVESANT,
1510 BROADWAY BROOKLYN, NY 11221

SCOPE OF WORK

NEW FREESTANDING BUILDING

GROUP	TENANT	USE
PROPOSED USE:	CHIPOTLE MEXICAN GRILL	A-2

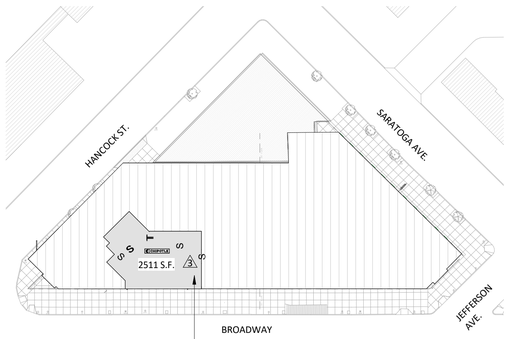
VICINITY MAP





CHIPOTLANE MEXICAN GRILL (2611 SQFT)
STORE# 31-4872
1510 BROADWAY
BEDFORD STUYVESANT, NEW YORK 11221

KEY PLAN



KEY SITE PLAN (2 / T000)
1" = 50'-0"
TRUE PLAN

DRAWING INDEX AND REVISIONS

SHEET NO.	SHEET NAME	REVISION 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COVER SHEET																
T000	COVER SHEET															
GENERAL																
G001	PROJECT DATA & LIFE SAFETY PLAN															
G002	ACCESSIBILITY REQUIREMENTS															
G010	ARCHITECTURAL SPECIFICATIONS															
G011	ARCHITECTURAL SPECIFICATIONS															
G012	ARCHITECTURAL SPECIFICATIONS															
G013	ARCHITECTURAL SPECIFICATIONS															
G014	ARCHITECTURAL SPECIFICATIONS															
G015	ARCHITECTURAL SPECIFICATIONS															
G016	ARCHITECTURAL SPECIFICATIONS															
G017	ARCHITECTURAL SPECIFICATIONS															
SITE PLAN																
ST100	ARCHITECTURAL SITE PLAN															
ARCHITECTURAL																
A101	SLAB WORK PLAN															
A110	ARCHITECTURAL FLOOR PLAN															
A111	ARCHITECTURAL FLOOR PLAN															
A120	FINISH PLAN															
A130	FF&E PLAN															
A131	EQUIPMENT SCHEDULE															
A132	EQUIP. & FURNITURE SCHEDULE															
A140	ARCHITECTURAL ROOF PLAN															
A201	REFLECTED CEILING PLAN															
A202	DIMENSIONED REFLECTED CEILING PLAN															
A203	FELT BLADE AND DUCTWORK PLAN															
A210	CEILING DETAILS															
A211	LIGHTING DETAILS															
A301	EXTERIOR ELEVATIONS															
A501	ARCHITECTURAL WALL TYPES															
A502	INTERIOR SECTIONS															
A601	DOOR & HARDWARE SCHEDULE															
A701	ELEVATIONS - INTERIOR DINING															
A702	ELEVATIONS - INTERIOR KITCHEN															
A703	ELEVATIONS - INTERIOR KITCHEN															
A710	RESTROOM DETAILS															
A801	FINISH DETAILS															
A802	TILE DETAILS															
EN101	ENERGY COMPLIANCE FORMS															
FIRE PROTECTION																
SP100	FIRE SPRINKLER PLAN - NEW WORK															
SP200	FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM															
SP201	FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS															
SP202	FEMA MAP															
SPD100	FIRE SPRINKLER PLAN - REMOVAL WORK															
FIRE ALARM																
FA100	FIRE ALARM PLAN - NEW YORK															
FA200	FIRE ALARM NYC NOTES, MISCELLANEOUS NOTES AND DETAILS															
FA201	FIRE ALARM SPECIFICATIONS															
HVAC																
M010	MECHANICAL SPECIFICATIONS, SYMBOLS & GENERAL INFORMATION															
M100	1ST FLOOR HVAC PLAN															
M101	1ST & 8TH FLOOR HVAC ROOF PLANS															
M401	CAPTIVEAIRE DRAWINGS															
M402	CAPTIVEAIRE DRAWINGS															
M403	CAPTIVEAIRE DRAWINGS															
M404	CAPTIVEAIRE DRAWINGS															
M600	HVAC SCHEDULES															
M601	HVAC SCHEDULES															
M700	HVAC DETAILS															
M701	HVAC DETAILS															
M702	HVAC DETAILS															
PLUMBING																
P010	PLUMBING SPECIFICATIONS															
P100	1ST FLOOR PLUMBING SUPPLY PLANS															
P102	1ST FLOOR PLUMBING WASTE AND VENT PLAN															
P200	PLUMBING FIXTURE SCHEDULE															
P300	1ST FLOOR RISER DIAGRAMS															
P400	PLUMBING DETAILS															
ELECTRICAL																
E010	ELECTRICAL SPECIFICATIONS															
E100	1ST FLOOR LIGHTING PLAN															
E101	LIGHTING CONTROLS															
E110	1ST FLOOR POWER PLAN															
E120	1ST FLOOR, 1ST FLOOR ROOF & 8TH FLOOR ROOF HVAC POWER PLAN															
E600	PANEL SCHEDULES															
E601	PANEL SCHEDULES															
E700	ELECTRICAL INTERIOR ELEVATIONS															
E710	ELECTRICAL DETAILS															
EN100	ENERGY COMPLIANCE FORMS															

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
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BROOKLYN, NY 11221

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Revisions:

3 08/08/2024	PER LLD COMMENTS

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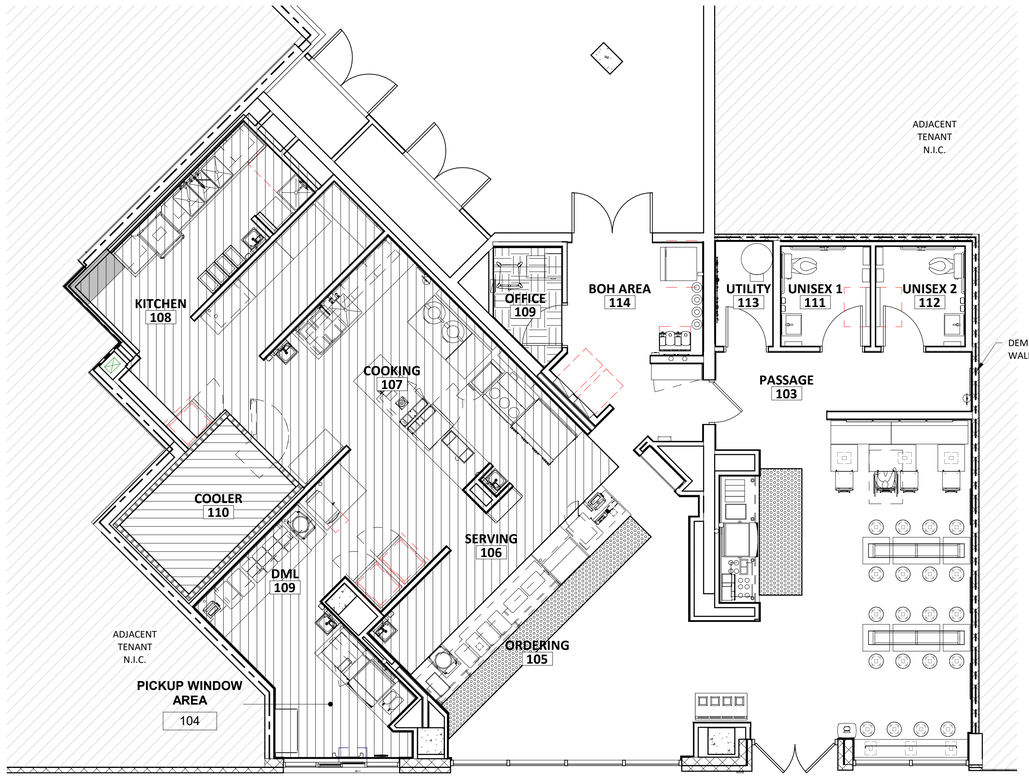
Project No. 22111

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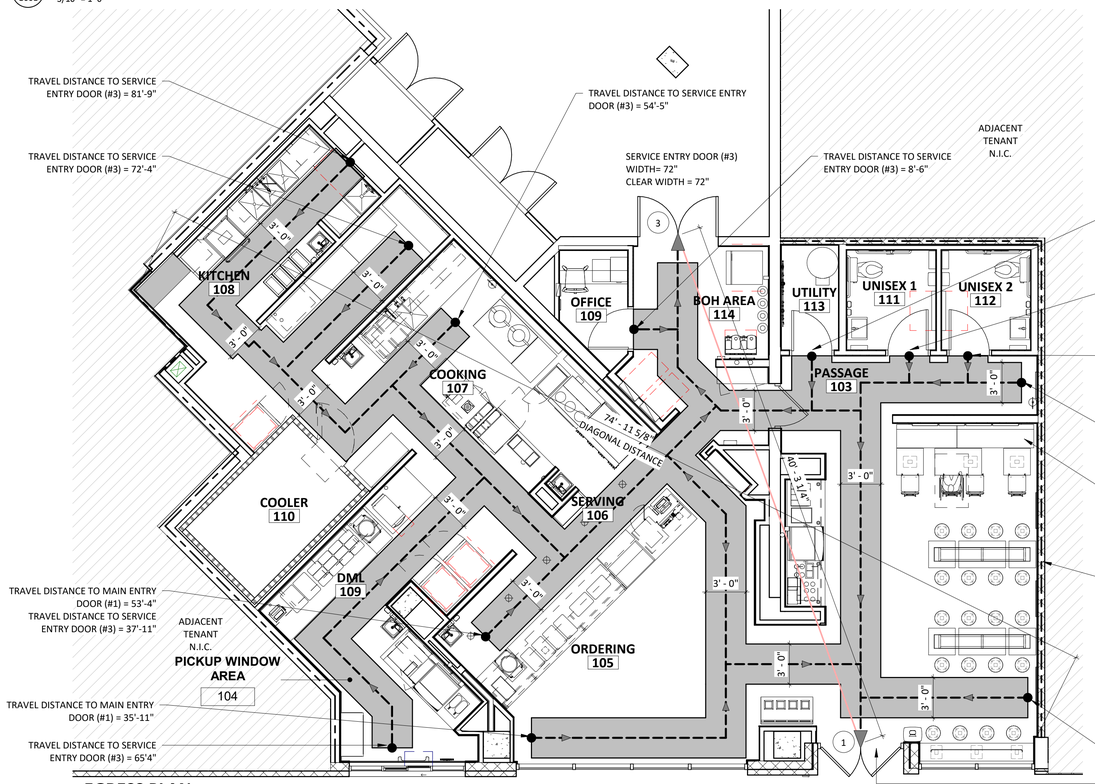
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DOB NOW JOB #: B01050687-I1



OCCUPANCY PLAN

2 G001 — 3/16" = 1'-0"



EGRESS PLAN

1 G001 — 3/16" = 1'-0"

NYC - DOB GENERAL PROJECT DESCRIPTION

1. THE FOLLOWING PROJECT IS LIMITED TO TENANT IMPROVEMENT WORK WITHIN AN EXISTING SPACE. NO CHANGE OR REDUCTION IN EGRESS CAPACITY IS PROPOSED WITHIN THE SCOPE OF WORK DESCRIBED HEREIN.

NYC - DOB GENERAL CONTRACTOR REQUIREMENTS

1. NYC-DOB SPECIAL INSPECTION REQUIREMENT; A LICENSED NEW YORK STATE INSPECTING PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WILL BE EMPLOYED BY CHIPOTLE MEXICAN GRILL FOR ALL REQUIRED NYC SPECIAL INSPECTIONS. INSPECTING ENGINEER/ARCHITECT MUST BE SCHEDULED AND COORDINATED BY GENERAL CONTRACTOR.
2. G.C. SHALL SUBMIT ALL TECHNICAL REPORT FORMS TO THE NYC-DOB AS COMPLETED AND APPROVED PRIOR TO FINAL PAYMENT OF CONSTRUCTION CONTRACT SUM.
3. G.C. SHALL OBTAIN ALL REQUIRED "EQUIPMENT USE PERMITS" PRIOR TO FINAL PAYMENT OF CONSTRUCTION CONTRACT SUM.
4. G.C. SHALL VERIFY THAT THE "SCHEDULE B" PLUMBING FORM AS SUBMITTED TO THE NYC-DOB BY THE ARCHITECT IS ACCURATE WITH AS-BUILT CONDITIONS PRIOR TO MAKING REQUEST FOR A FINAL PLUMBING INSPECTION. G.C. SHALL NOTIFY ARCHITECT A MINIMUM OF TWO WEEKS PRIOR TO FINAL PLUMBING INSPECTION IF "SCHEDULE B" PLUMBING FORM REQUIRES UPDATING. PLEASE NOTE THAT IF THIS IS NOT COORDINATED IT WILL HOLD UP, GAS SERVICE INSTALLATION AND FINAL OCCUPANCY OF SPACE BY THE TENANT.
5. THE FOLLOWING ARE A LIST OF ANTICIPATED SPECIAL INSPECTIONS THAT WILL BE NECESSARY FOR THIS PROJECT AND WILL BE DEFINED ON THE TECHNICAL REPORT FORMS.
6. GC SHALL BE RESPONSIBLE FOR FILING A TPP WITH THE NYC DOB. OWNER IS REQUIRED TO CONTACT WITH A SPECIAL INSPECTOR TO PERFORM "TENANT PROTECTION COMPLIANCE" SPECIAL INSPECTION.

CODE / SECTION	SPECIAL INSPECTIONS AND TESTS
BC 1704.16	MECHANICAL SYSTEMS
BC 1704.27	FIRE RESISTANCE PENETRATIONS AND JOINTS
BC 110.3.4	FIRE RESISTANCE RATED CONSTRUCTION
BC 110.3.5	ENERGY CODE COMPLIANCE
BC 110.5	FINAL - DIRECTIVE 14
(IB3), (IIB3) / (IB4), (IIB4)	HVAC AND SERVICE WATER HEATING EQUIP. / SYS. CONTROLS
(IB5), (IIB5)	HVAC INSULATION AND SEALING
(IC2), (IIC3)	INTERIOR LIGHTING POWER
(IIC4)	EXTERIOR LIGHTING POWER
(IIC5)	LIGHTING CONTROLS
(IIC6)	ELECTRICAL MOTORS
(ID1), (IID1)	MAINTENANCE INFORMATION

NYC - DOB APPLICATIONS TO BE FILED SEPARATELY BY OTHERS

1. EXTERIOR BUILDING SIGNAGE — BY SIGN VENDOR

ENERGY CODE STATEMENTS

ENERGY CODE COMPLIANCE STATEMENT:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH NYCECC ENERGY ANALYSIS FOR ENVELOPE.

BUILDING PERMIT APPLICATIONS TO BE FILED SEPARATELY BY OTHERS

1. EXTERIOR BUILDING SIGNAGE — BY SIGN VENDOR
4. ANSUL / FIRE SUPPRENSSION SYSTEM FILED SEPARATELY — BY CMG VENDOR

APPLICABLE BUILDING CODE

EXISTING BUILDING CODE:	2014 NEW YORK CITY BUILDING CODE
MECHANICAL CODE:	2014 NEW YORK CITY MECHANICAL CODE
PLUMBING CODE:	2014 NEW YORK CITY PLUMBING CODE
ENERGY CODE:	2064 NEW YORK CITY ENERGY CODE
FUEL GAS CODE:	2014 NEW YORK CITY FUEL GAS CODE
ELECTRICAL CODE:	2011 NEW YORK CITY ELECTRICAL CODE
FIRE CODE:	2014 NEW YORK CITY FIRE CODE
ACCESSIBLITY:	2010 ADA STANDARDS/2014 CITY OF NEW YORK BUILDING CODE AND ANSI A117.1

CONSTRUCTION TYPE & USE CLASSIFICATION

OCCUPANY GROUP:	A-2 (ASSEMBLY)
TYPE OF CONSTRUCTION:	IB NON-COMUSTIBLE
AREA:	2,511SF
NUMBER OF STORIES:	8
FIRE SPRINKLER:	SPRINKLERED

FIRE RESISTANCE RATING REQUIREMENTS

(PER 2014 NYC BUILDING CODE, TABLE 601 AND TABLE 602)

CONSTRUCTION ELEMENT:		REQUIRED	PROVIDED
PRIMARY STRUCTURAL FRAME:		0	EXISTING TO REMAIN
BEARING WALLS:	EXTERIOR	0	EXISTING TO REMAIN
	INTERIOR	0	EXISTING TO REMAIN
NON BEARING WALLS & PARTITIONS - EXTERIOR:	FIRE SEPARTION DISTANCE < 5'	1 HR	N/A
	FIRE SEPARTION DISTANCE ≥ 5', < 10'	1 HR	N/A
	FIRE SEPARTION DISTANCE ≥ 10',< 30'	0	N/A
	FIRE SEPARTION DISTANCE ≥ 30'	0	EXISTING TO REMAIN
FLOOR CONSTRUCTION		0	EXISTING TO REMAIN
ROOF CONSTRUCTION		0	EXISTING TO REMAIN
SEPARATION OF DIFFERENT OCCUPANCIES (508.4)		N/A	N/A

OCCUPANT LOAD CALCULATIONS

(PER TABLE 1004.5 & SECTION 1004.6)

SPACE	LEGEND	OCCUPANCY	SF/OCCUPANT	AREA	OCCUPANT LOAD
KITCHEN		KITCHEN	1/200 (GROSS)	881 SF	5
ORDERING		ASSEMBLY (STANDING)	1/5 (NET)	45 SF	9
UTENSIL		ASSEMBLY (STANDING)	1/5 (NET)	30 SF	6
DINING	(#)	FIXED SEATS	ACTUAL COUNT	-	24
DINING		BENCH	1/24" LENGTH		5
OFFICE		OFFICE	1/150 (GROSS)	38 SF	1
LOCKED STORAGE		LOCKED STORAGE	1/300 (GROSS)	82 SF	1
TOTAL OCCUPANCY					51 OCCUPANTS

TOTAL OCCUPANT LOAD TO BE POSTED: *51 OCC. (MAX OCCUPANCY)*
THE CALCULATED OCCUPANT LOAD IS LESS THAN THE PROPOSED POSTED OCCUPANT LOAD.
ALL LIFE SAFETY AND RESTROOM CALCULATIONS ARE BASED ON THE POSTED OCCUPANT.

SEATING CALCULATIONS

1. PER CODE: 5% OF SEATING REQUIRED TO BE ACCESSIBLE (29 X 0.05 = 1.45 =1) 1 PROVIDED
2. PER CHAPTER 11 ACCESIBILITY: TABLE 1109.2.2.1 TOTAL SEATING CAPACITY BETWEEN 26-50, THE TOTAL REQUIRED ACCESIBLE SEATS = 2 ARE PROVIDED

TOTAL INTERIOR SEATING COUNT: 29
ACCESSIBLE SEATING REQUIRED : 1
ACCESSIBLE SEATING PROVIDED : 1

TOTAL EXTERIOR SEATING COUNT: 0
ACCESSIBLE SEATING REQUIRED : 0
ACCESSIBLE SEATING PROVIDED : 0

EGRESS REQUIREMENTS

(PER TABLE 1017.2 AND SECTION 1005.3.2)

OCCUPANCY	DESIGNATION	MAX TRAVEL DISTANCE	INCHES PER OCCUPANT	WIDTH REQUIRED	WIDTH PROVIDED
ASSEMBLY	A-2	200	0.2 (PROPOSED 51 OCC.)	11" 51X0.2=10.2	DOOR (1) 72" DOOR (2) 72"

1. PER CODE: IBC SECTION 1106.2.1, COMMON PATH OF EGRESS TRAVEL IN KITCHEN SHALL NOT EXCEED 75'

PLUMBING FIXTURES

(PER IBC PLUMBING CODE TABLE 2902.1)

OCCUPANCY CLASSIFICATION B (RESTAURANTS)

1. WATER CLOSETS= 1/51 MALE 1/51 FEMALE
2. LAVATORIES = MALE/FEMALE 1/200

TOTAL OCCUPANTS = 51
51/2 = 26 (26 MALE / 26 FEMALE)

PLUMBING FIXTURES REQUIRED/PROVIDED:

	WATER CLOSETS		LAVATORIES		URINALS	
	REQ'D	PROV'D	REQ'D	PROV'D	REQ'D	PROV'D
MEN'S:	1	1	1	1	0	0
WOMEN'S:	1	1	1	1	0	0

EGRESS SEPARATION NOTE

OVERALL DISTANCE: 74' - 6 1/8"

REQUIRED SEPARATION: 24'-3" (NON-SPRINKLERED)

PROVIDED SEPARATION: 40' - 3 1/4"

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
tel: 212 - 647 - 0011
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Contents:

PROJECT DATA & LIFE SAFETY PLAN

G001.00

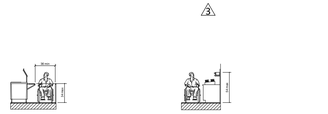
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INTERIOR ACCESSIBILITY COMPONENTS

THIS TENANT SPACE IS REQUIRED TO BE ACCESSIBLE AS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT OF 2014 NEW YORK CITY BUILDING CODE. MAINTAIN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE ACT AND ITS ACCESSIBILITY GUIDELINES (A.D.A.), (A.D.A.A.G.).

TABLEWARE AREAS

1. FOOD SERVICE LINES SHALL HAVE A MINIMUM CLEAR WIDTH OF 36" WITH TRAY SLIDES MOUNTED NO HIGHER THAN 34" ABOVE THE FLOOR. IF SELF-SERVICE SHELVES ARE PROVIDED, AT LEAST 50% OF EACH TYPE MUST BE WITHIN REACH RANGES SPECIFIED IN A.D.A.A.G. SECTIONS 4.2.5 AND 4.2.6.
2. SELF-SERVICE SHELVES AND DISPENSING DEVICES FOR DISHWARE, CONDIMENTS, FOOD AND BEVERAGES SHALL BE INSTALLED TO COMPLY WITH A.D.A.A.G. SECTION 4.2.

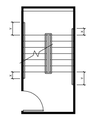


FOOD SERVICE LINES

TABLEWARE AREAS

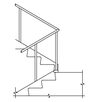
STAIRS

1. ACCESSIBLE STAIRS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.9.
2. ACCESSIBLE STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS ALONG EACH RUN.
3. THE CLEAR SPACE BETWEEN HANDRAILS AND WALL SHALL BE 1-1/2". HANDRAIL GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS. THE TOP OF HANDRAIL GRIPPING SURFACES SHALL BE INSTALLED BETWEEN 34" AND 38" ABOVE STAIR NOSINGS.



PLAN

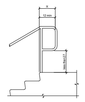
NOTE: "X" IS THE MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER. "Y" IS THE MINIMUM HANDRAIL EXTENSION OF 12 IN PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER.



ELEVATION OF CENTER HANDRAIL



EXTENSION AT BOTTOM OF RUN



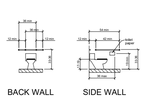
EXTENSION AT TOP OF RUN

RESTROOMS

1. ELEMENTS OF ACCESSIBLE RESTROOMS SHALL COMPLY WITH A.D.A.A.G. SECTIONS 4.15, 4.16, 4.17, 4.18, 4.19, AND 4.22.
2. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL-HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE FINISH FLOOR. URINALS SHALL HAVE A 30" x 48" CLEAR FLOOR SPACE TO ALLOW A FRONT APPROACH AND THE FLUSH CONTROLS SHALL BE HAND-OPERATED WITH THE CONTROLS INSTALLED NO HIGHER THAN 44" ABOVE FINISH FLOOR.
3. HOT WATER LINES AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
4. EXAMPLES OF ACCESSIBLE FAUCETS INCLUDE: LEVER OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED. IF SELF-CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
5. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE TO PROVIDE EQUIVALENT GRIPPING SURFACE. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2". THE GRAB BAR ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING BENDING STRESSES, SHEAR STRESSES, SHEAR FORCES, AND TENSILE FORCES OF UP TO 250 LBF.. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
6. MOUNTING HEIGHTS TO OPERATING CONTROLS FOR RESTROOM ACCESSORIES NOT SPECIFICALLY CALLED OUT IN THE A.D.A.A.G. SHALL COMPLY WITH THE REACH RANGES SPECIFIED IN A.D.A.A.G. SECTION 4.25..



CLEAR FLOOR SPACE AT WATER CLOSETS



BACK WALL

SIDE WALL

GRAB BARS AT WATER CLOSETS



STANDARD STALL

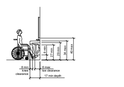


STANDARD STALL (END OF ROW)

TOILET STALLS



CLEAR FLOOR SPACE AT LAVATORIES



LAVATORY CLEARANCE



FREE-STANDING FOUNTAIN OR COOLER



BUILT-IN FOUNTAIN OR COOLER



CLEAR FLOOR SPACE



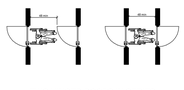
SPOUT HEIGHT AND KNEE CLEARANCE

DRINKING FOUNTAINS AND WATER COOLERS

DOORS

1. ACCESSIBLE DOORS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.13.
2. THRESHOLD AT DOORWAYS SHALL NOT EXCEED 3/4" IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2" IN HEIGHT FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
3. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.
4. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70°, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
5. ACCESSIBLE DOORS THAT ARE NOT FIRE DOORS OR EXTERIOR HINGED DOORS SHALL HAVE A MAXIMUM FORCE FOR PUSHING OR PULLING THE DOOR OPEN OF 5 LBF. THIS FORCE DOES NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD A DOOR IN A CLOSED POSITION.

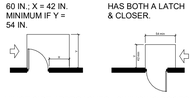
NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.



TWO HINGED DOORS IN SERIES

NOTE: X = 36 IN. MINIMUM IF Y = 60 IN.; X = 42 IN. MINIMUM IF Y = 54 IN.

NOTE: Y = 48 IN. MINIMUM IF DOOR HAS BOTH A LATCH & CLOSER.

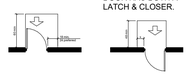


HINGE SIDE APPROACHES - SWINGING DOORS



CLEAR DOORWAY WIDTH

NOTE: X = 12 IN. IF DOOR HAS BOTH A LATCH & CLOSER.



FRONT APPROACH - SWINGING DOORS

NOTE: Y = 54 IN. MINIMUM IF DOOR HAS CLOSER.

NOTE: Y = 48 IN. MINIMUM IF DOOR HAS CLOSER.



LATCH SIDE APPROACHES - SWINGING DOORS

PATH OF TRAVEL

1. ALL WALKS, HALLS, CORRIDORS, AISLES, SKYWALKS, TUNNELS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH A.D.A.A.G. SECTION 4.3.
2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS.
3. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH 4.8. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50.



MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR



60 IN. DIAMETER SPACE



T-SHAPED SPACE FOR 180° TURNS



CHANGES IN LEVEL



CHANGES IN LEVEL



90° TURN



TURN AROUND AN OBSTRUCTION

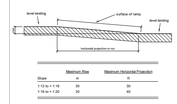
NOTE: DIMENSIONS SHOWN APPLY WHEN X < 48 IN.



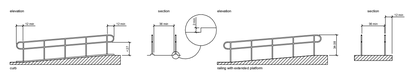
WALKING PARALLEL TO A WALL

RAMPS

1. ACCESSIBLE RAMPS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.8.
2. IF A RAMP HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72", THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ADJACENT TO ASSEMBLY SEATING AREAS. CLEAR SPACE BETWEEN A HANDRAIL AND AN ADJACENT WALL SHALL BE 1-1/2".
3. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50.



COMPONENTS OF A SINGLE RAMP RUN AND SINGLE RAMP DIMENSIONS



EXAMPLES OF EDGE PROTECTION AND HANDRAIL EXTENSIONS

CONTROLS

1. CONTROLS & OPERATING MECHANISMS SHALL COMPLY WITH A.D.A.A.G. SECTION 4.27.
2. ALL CONTROLS & OPERATING MECHANISMS WHICH ARE INTENDED FOR NORMAL USE BY BUILDING OCCUPANTS SHALL BE PROVIDED WITH A.D.A.A.G.-COMPLIANT CLEAR FLOOR SPACES & SHALL BE PLACED WITHIN 1" OF THE REQUIRED FORWARD OR SIDE APPROACH REACH RANGES (48" A.F.F. = FORWARD - 54" A.F.F. = SIDE APPROACH)

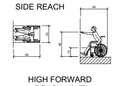


CLEAR FLOOR SPACE PARALLEL APPROACH SIDE REACH



HIGH AND LOW SIDE REACH LIMITS SIDE REACH

SIDE REACH



HIGH FORWARD REACH LIMIT FORWARD REACH

SIGNAGE

1. ACCESSIBLE SIGNAGE SHALL COMPLY WITH A.D.A.A.G. SECTION 4.30.
2. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
3. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER-CASE X. LOWER CASE CHARACTERS ARE PERMITTED. SIGNS INSTALLED OVER 80" ABOVE FINISHED FLOOR SHALL HAVE A MINIMUM CHARACTER HEIGHT OF 3".
4. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER-CASE SANS SERIF OR SIMPLE SERIF TYPE, AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.
5. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
6. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE-LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL MOUNTING HEIGHT SHALL BE 60" ABOVE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.



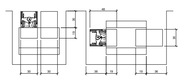
NEW SYMBOL OF ACCESSIBILITY NEW YORK STATE LAW A.8193/S.6846 EFFECTIVE NOVEMBER 25, 2014



DISPLAY OPTIONS - DYNAMIC SYMBOL OF ACCESSIBILITY

TABLE SEATING

1. WHERE FIXED TABLES (OR DINING COUNTERS WHERE FOOD IS CONSUMED BUT THERE IS NO SERVICE) ARE PROVIDED, AT LEAST 5%, BUT NOT LESS THAN ONE, OF THE FIXED TABLES (OR A PORTION OF THE DINING COUNTER) SHALL BE ACCESSIBLE AND SHALL COMPLY WITH A.D.A.A.G. SECTION 4.32.
2. IN ESTABLISHMENTS WHERE SEPARATE AREAS ARE DESIGNATED FOR SMOKING AND NON-SMOKING PATRONS, THE NUMBER OF ACCESSIBLE FIXED TABLES (OR COUNTERS) SHALL BE PROPORTIONALLY DISTRIBUTED BETWEEN THE SMOKING AND NON-SMOKING AREAS.
3. WHERE FOOD OR DRINK IS SERVED AT COUNTERS EXCEEDING 34" IN HEIGHT FOR CONSUMPTION BY CUSTOMERS SEATED ON STOOLS OR STANDING AT THE COUNTER, A PORTION OF THE MAIN COUNTER WHICH IS 60" IN LENGTH MINIMUM SHALL BE PROVIDED IN COMPLIANCE WITH A.D.A.A.G. SECTION 4.32 OR SERVICE SHALL BE AVAILABLE AT ACCESSIBLE TABLES WITHIN THE SAME AREA.
4. AT LEAST 5% OF ALL TABLE SEATING SHALL BE ACCESSIBLE PER THE REQUIREMENTS OF A.D.A.A.G. SECTION 4.32.
5. ACCESSIBLE SEATING AT TABLES AND/OR COUNTERS SHALL CONSIST OF THE FOLLOWING DIMENSIONAL CRITERIA: KNEE CLEARANCE SHALL BE 27" HIGH, 30" WIDE, AND 19" DEEP; TABLE HEIGHT SHALL BE 28" TO 34".



MINIMUM CLEARANCES FOR SEATING AND TABLES

ADDITIONAL ACCESSIBILITY COMPONENTS

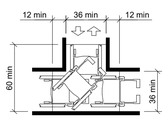
IN ADDITION TO ALL 2010 ADA STANDARD REQUIREMENTS, THIS FACILITY SHALL MEET THE REQUIREMENTS OF THE LOCAL JURISDICTION FOR ACCESSIBILITY AS LISTED BELOW AND SHALL MEET ALL REQUIREMENTS OF BARRIER FREE SUBCODE (CHAPTER 11 of IBC-2015 & ICC/ANSI A117.1-2009)

* WHERE INFORMATION LISTED/SHOWN IN THIS SECTION CONFLICTS WITH THE 2010 ADA STANDARD INTERIOR ACCESSIBILITY COMPONENTS, THE MORE RESTRICTIVE OF THE TWO REQUIREMENTS SHALL BE FOLLOWED.

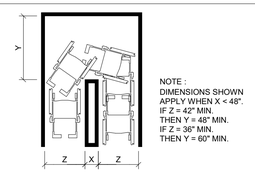
PATH OF TRAVEL

ALL WALKS, HALLS, CORRIDORS, AISLES, SKYWALKS, TUNNELS, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009

1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS.
2. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH 405. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:48.



T-SHAPED SPACE FOR 180° TURNS

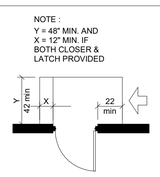


NOTE : DIMENSIONS SHOWN APPLY WHEN X < 48". IF Z = 42" MIN. THEN Y = 48" MIN. IF Z = 36" MIN. THEN Y = 60" MIN.

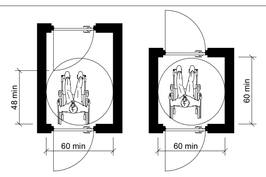
TURN AROUND AN OBSTRUCTION

DOORS

1. ACCESSIBLE DOORS SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009
2. THRESHOLD AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
3. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR AND NOT LOWER THAN 34" ABOVE FINISH FLOOR.
4. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO AN OPEN POSITION OF 12".



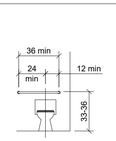
HINGE SIDE APPROACHES SWINGING DOORS



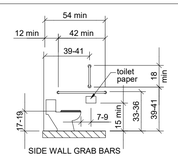
TWO HINGED DOORS IN SERIES

RESTROOMS

1. ELEMENTS OF ACCESSIBLE RESTROOMS SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009



REAR WALL GRAB BARS



SIDE WALL GRAB BARS

SIGNAGE

ACCESSIBLE SIGNAGE SHALL COMPLY WITH BARRIER FREE SUBCODE (CHAPTER 11 of IBC/2012 & NJAC 5:23-7) ICC/ANSI A117.1-2009

1. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO SUCH THAT THE WIDTH OF AN UPPERCASE 'O' SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF AN UPPERCASE 'I'.
2. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER-CASE I. LOWER CASE CHARACTERS ARE PERMITTED. SIGNS INSTALLED OVER 120" ABOVE FINISHED FLOOR SHALL HAVE A MINIMUM CHARACTER HEIGHT OF 3".
3. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE-LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISHED FLOOR TO THE BOTTOM OF HIGHEST LINE OF TEXT. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18" MINIMUM BY 18" MINIMUM CENTERED ON THE TACTILE CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSTITION AND 45 DEGREE OPEN POSITION.

Consultant:

HBC

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New York, New York 10001
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1510 BROADWAY
BROOKLYN, NY 11221

Issue Record:

04/23/2024	LLD REVIEW SET
08/20/2024	PERMIT SET
05/02/2024	BID SET
10/23/2024	CONSTRUCTION SET

Revisions:

08/08/2024	PER LLD COMMENTS

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 22111

Contents:

ACCESSIBILITY REQUIREMENTS

G002.00

DOB NOW JOB #: B01050687-I1

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

1.1 Contract Documents:

A. Contractor shall use the following Tenant provided documents in the negotiation and execution of the Work. Contact Tenant's office for copies of these documents:
   1. Chipotle Instructions to Bidders.
   2. Construction Contract for Chipotle Mexican Grill.

B. Definitions:
   1. The term "Owner" used in these documents refers to the building Owner/Landlord.
   2. The term "Tenant" used in these documents refer to the restaurant Tenant, Chipotle Mexican Grill, Inc.
   3. The term "Contractor" used in these documents refers to the entity responsible for performing the Work under Construction Contract for Chipotle Mexican Grill.

1.2 Scope of Work:

A. The Work shall include construction of the site and building facilities as shown and specified in these Specifications and Drawings.

B. When required and necessary, the Tenant will provide a subsurface exploration report as an attachment the bidding documents.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

1.1 Coordination:

A. Immediately inform the Architect of discrepancies between the information indicated in the Contract Documents and existing project conditions, and of discrepancies between information indicated on the architectural, structural, mechanical, plumbing and electrical documents.

B. Prior to fabrication and installation of new components, field verify all existing and new dimensions and installation conditions that may affect the Work. Do not scale the drawings to establish locations of items that are not located using dimensions.
   1. All dimensions are to rough face of stud or centerline of structure, unless otherwise indicated.
   2. Verify that all Subcontractors have reviewed and coordinated locations of their equipment and furnishings exposed to view with the architectural drawings. Review questions with the Architect.

C. Coordinate new work indicated on the Contract Documents with new work that may be provided by the Owner and Tenant under separate contracts.

D. Coordinate the work of Vendors, Contractors and Subcontractors providing fixtures, furniture and equipment identified as "by Tenant" in these drawings and specifications.
   1. Notify the Tenant in timely fashion if any problems develop with the performance of these Vendors, Contractors or Subcontractors.

E. Coordinate the scheduling, sequencing, and the work of all trades and Subcontractors to assure efficient and orderly sequences of installation of interdependent construction elements.

F. Verify that the utility requirement characteristics of operating equipment are compatible with the building utility services. Coordinate work of the various specification sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.

G. Coordinate the installation and physical space requirements of plumbing, mechanical and electrical work that are indicated diagrammatically on the drawings. Follow routing shown for piping, ducts and conduit as closely as practical. Install runs parallel with and perpendicular to the line of the building. Utilize spaces as efficiently as possible to maximize accessibility for other work installation and for maintenance and for repair.
   1. Conceal piping, ducts and conduit within the construction, except as otherwise indicated.
   2. Coordinate locations of registers, fixtures and outlets with finish elements.

H. Coordinate completion and cleanup work of all trades and Subcontractors in preparation for Substantial Completion.

I. To minimize disruption of Tenant's activities after Tenant occupancy of the property, coordinate access to the property with the Tenant's Construction Manager for correction of defective work and work not in accordance with the Contract Documents.

1.2 Submittals:

A. Only when indicated in the specifications or drawings submit shop drawings, product data, and/or samples to the Architect, Design Manager, and Development Analyst for review. All submittals shall be made directly to the Architect by the general contractor. Only submittals for specified products will be accepted unless prior approval has been obtained for a substitution (refer to Section 01630).

Shop drawings: Submit electronic copies of each sheet of drawings. Shop drawings are original drawings prepared by the subcontractor or vendor for the purpose of conveying information to the Architect and/or Engineer on how a building element or product will be constructed in sufficient detail for the Architect and/or Engineer to determine compliance with the design intent.

In all cases one copy of the submittal shall be returned to the General Contractor. Electronic submittals for shop drawing or product data in either PDF or DWF format are acceptable for review. All submittals, regardless of format, must bear the General Contractor's stamp indicating the submittal has been reviewed and approved. Any submittal not meeting the requirements set forth will be rejected by the Architect.

Submittals shall be made with respect to the construction schedule to allow for adequate review time: allow (5) business days for review of submittals for any structural steel, canopies and trusses and allow (3) business days for review of submittals in all other divisions. Review timeline will commence from the time the submittal with General Contractor's approval stamp is received by the Architect, Design Manager, and Development Analyst.

1.3 Requests For Information

A. In the event that the general contractor, or a subcontractor, at any tier, determines that some portion of the drawings, specifications, or other contract documents requires a clarification or interpretation by the architect, the general contractor shall submit a Request For Information in writing to the architect in an electronic copy.

Requests for Information may only be submitted by the general contractor and may only be submitted to the architect. The general contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and why a response is needed from the architect or the architect's consultants. In the Request for Information, the general contractor shall set forth an interpretation or understanding of the requirement along with an explanation of why such an understanding was reached.

B. The architect will review all Requests for Information to determine whether they are Requests for Information within the meaning of this term. If the architect determines that the document is not a request for information, it will be returned to the general contractor, un-reviewed as to content, for re-submittal in the proper form and in the proper manner.

Responses to Requests for Information shall be issued upon receipt, but no later that five (5) working days of receipt of the Request from the general contractor; unless the architect determines that a longer amount of time is necessary to provide an adequate response. If a longer amount of time is determined necessary by the architect, the architect will, within five (5) working days of receipt of the Request, notify the general contractor of the anticipated response time. If the general contractor submits a Request for Information on an activity with five (5) working days or less of float on the current project schedule the general contractor shall not be entitled to any time extension due to the time it takes the architect to respond to the Request provided that the architect responds within the parameters set forth above.

C. Responses to Requests for Information from the architect will not change any requirements of the contract documents. In the event that the general contractor believes that a response to a Request For Information will cause a change to the requirements of the contract documents, the general contractor shall immediately give written notice to the architect and the tenant stating that the general contractor considers the response to be a Change Order. Failure to give such written notice immediately shall waive the general contractor's (or any subcontractor's) right to seek additional time or cost under the Administrative Requirements of these contract documents.

SECTION 01400 - QUALITY REQUIREMENTS

1.1 Regulatory Requirements:

A. Perform all work in accordance with applicable local, state, and federal building codes, plumbing codes, mechanical codes, electrical codes, ordinances and rules and regulations governing food service establishments.

B. Comply with local, state and federal requirements governing accessibility.

C. Obtain all required demolition and erosion control permits required by authorities having jurisdiction.

1.2 Quality Control:

A. Maintain quality control over manufacturers, suppliers, products, services, site conditions and workmanship, to produce work of specified quality.

B. Comply with manufacturer's instructions and applicable trade standards.

C. Handle, install, connect, clean, condition and adjust products in strict accordance with manufacturer's instructions and complying with specified requirements.
   1. Request clarification from the Architect before proceeding, where manufacturer's instructions conflict with the Contract Documents.

D. Comply with specified standards as a minimum quality for the Work, except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.

E. Perform work by persons qualified to produce workmanship of the specified quality. Secure products in place with positive anchorage devices designed, sized and installed to withstand stress, vibration, physical distortion or disfigurement.

F. All dimensions shall be considered "hold-to" dimensions unless indicated otherwise (e.g. minimum or maximum dimensions.)

1.3 Testing:

A. Employ and pay for the services of an independent testing laboratory to perform inspections, tests and other services when required.

B. Include inspection and tests as indicated in the specification sections, drawings, and as required by authorities having jurisdiction.
   1. Test concrete in accordance with Section 03300 and drawing requirements.
   2. Test structural steel in accordance with Section 05110 and drawing requirements.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 Provide temporary facilities and controls as shown and specified:

A. Codes and Standards: Provide temporary construction facilities and controls complying with all applicable local, State and Federal local laws, regulations and codes and utility company requirements.

B. Temporary Heating, Ventilating and Cooling:
   1. Provide, pay for and maintain all temporary heating, ventilating and cooling equipment and facilities required during the progress of the work to protect materials, finished work, and equipment against damage from low and high temperatures and humidity.
   2. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to damage or affect in any way the performance or quality of material and product stored in the building, in any temporary storage area, or any material or product incorporated into the work.
   3. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to significantly slow or hamper effectiveness of workers and to provide suitable working conditions.

C. Temporary Electrical Lighting and Power:
   1. Provide, pay for and maintain all temporary electrical service for lighting and power required during the progress of the work. Include all necessary wiring, fuses, disconnect switches, safety devices, junction boxes, panels, ground fault protections, and transformer if required. Include cost for providing temporary electric generators in the Contract Sum, if temporary electric service is not available for use during progress of the work.
   2. Temporary service and lighting and power items and installations shall conform to the requirements of the NFPA National Electric Code and OSHA Occupational Safety and Health Act of 1970.

D. Water: Provide, pay for and maintain all temporary water required during the progress of the work. Include all necessary storage tanks, piping, valves, fittings, hose and hose connections during construction and testing.

E. Temporary Toilets: Provide, pay for and maintain temporary toilet facilities for use by the Contractor, Contractor's employees and all Subcontractors and Subcontractors' employees. Comply with all local requirements for installation, use and maintenance of temporary toilet facilities.

F. Barriers and Enclosures:
   1. Provide temporary construction barriers in accordance with project requirements. Exercise all necessary precautions to protect adjacent properties, outside project contact limits, during progress of the work. Take special precautions to avoid damage to existing overhead and underground utilities and services owned or operated by the Owner or by public or private utility companies.
   2. Provide temporary weather-tight enclosures at exterior openings to provide acceptable working conditions and protection of materials and to allow for temporary heating, ventilating and cooling.

G. Field Office, Telephone and Email:
   1. Provide and maintain a temporary field office at the project site during progress of the work. A designated area within the existing building will be available for use as a temporary field office. Verify area size and location with the Tenant.
   2. Maintain copies of permits, approved shop drawings, specifications, addenda and record documents at field office.
   3. Provide temporary telephone service and internet service with email and photo capabilities to field office throughout progress of the work.
   4. Provide weekly photographic documentation of project progression to Tenant.

H. Safety and Security
   1. Provide and maintain all necessary safety provisions for protection and safety of the project work, workers and general public.
   2. Provide and maintain operable fire extinguishing devices in well-marked, accessible locations throughout the project. Provide types, quantities and locations in compliance with governing codes and ordinances.
   3. Provide all necessary security barriers and enclosures to protect the work and Tenant's operations from unauthorized entry of persons, vandalism and theft. Provide doors, when required, with self-closing hardware and locks.

I. Cleaning
   1. During Construction: Provide an approved on-site container for the use of all Contractors and Subcontractors for the collection of waste materials, debris and rubbish. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations. Remove crates and cartons in which materials, equipment, or fixtures are received to on-site containers daily.
      a. Maintain the property in a clean and orderly condition. Remove waste materials, debris and rubbish from the site on a daily basis and dispose of at legal disposal areas away from the site.
   2. Dust Control:
      a. Remove debris and rubbish from pipe chases, plenums and other similar closed or remote spaces prior to covering or enclosing the space.
      b. Sweep and vacuum clean interior surfaces before start of surface finishing and painting. Continue cleaning on an as-needed basis until finishing and painting is completed.
      c. Cleaning operations shall be acceptable to the Tenant's Construction Manager.

SECTION 01630 - SUBSTITUTIONS

1.1 General:

A. Products, including materials, equipment and systems described in the Contract Documents establish the standards of required function, dimension, appearance, quality and performance of the Work. Base all bids on the "Standards" indicated.

B. Requests by the Contractor for changes in products, manufacturers, fabricators, suppliers, installers, and methods of construction required by the Contract Documents are considered requests for "substitutions:" Substitutions will be considered only under the following conditions:
   1. The indicated "Standard" cannot be provided within the Contract Time
   2. The indicated "Standard" cannot receive necessary approval by the governing authority.
   3. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit as determined by the Architect.

C. Submit each request for substitution to the Architect. Identify the product, manufacturer, fabricator, supplier, installer or the fabrication or installation method to be replaced in each request. Identify related Specification Section and Drawing numbers. Provide documentation as directed by the Architect.

D. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate written request, when requested directly by subcontractor, manufacturer, fabricator, or supplier, or when acceptance will require substantial revision of the Contract Documents.

E. Substitute products, manufacturers, fabricators, suppliers, and installers shall not be used for the Project without Tenant and Architect's written acceptance.

SECTION 01700 - EXECUTION REQUIREMENTS

1.1 Preparation:

A. Protection of existing construction: Use all necessary care and appropriate means and methods to protect and prevent damage to existing construction and property not part of the Contract Work. Repair and refinish or replace construction an property damaged during construction work, at Contractor's expense.

1.2 Selective Demolition: Provide selective demolition as shown and specified.

A. Preparation:
   1. Coordinate work of this Section with work of various Contractors and Tenant's staff.
   2. Maintain protected access at all times.
   3. Erect and maintain weatherproof closures at exterior openings.
   4. Erect and maintain dust-proof interior partitions to prevent spread of dust or fumes.
   5. Erect and maintain barricades, enclosures, bracing, shoring, lights, warning signs and guards necessary for worker and public safety and protection of property.
   6. Disconnect, remove and cap designated utility services. Identify and mark locations of disconnected and capped utilities at the project site and on Project Record Documents.
   7. Notify and coordinate with the Tenant's Construction Manager and the building Owner for any demolition occurring outside the lease limit.
   8. Coordinate hours of operation and construction access with the Tenant's Construction Manager and the building Owner.

B. Selective Demolition
   1. Remove existing construction to accommodate new construction as indicated.
   2. Perform selective demolition in an orderly, systematic and careful manner with least possible disturbance to public and adjacent property. Use of explosives is prohibited.
   3. Immediately remove from the site and legally dispose of demolished materials, except as indicated otherwise. Do not burn or bury materials on the project site.

1.3 Cleaning

A. Final Cleaning: Perform final cleaning upon completion of project work.
   1. Remove waste and surplus materials, rubbish, tools, equipment and temporary construction facilities from the site.
   2. Clean exterior grounds; remove stains, spills and foreign materials from paved areas, power wash and sweep clean. Rake clean landscaped surfaces of the grounds.
   3. Remove temporary protection and labels not required to remain.
   4. Clean all finished surfaces. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels and other foreign materials from exposed interior and exterior surfaces.
      a. Clean all plumbing, fire protection and electrical fixtures and equipment including ceiling area elevated ductwork and lighting fixtures.
      b. Clean permanent equipment filters and replace temporary disposable filters in mechanical units used during construction.
      c. Clean ducts, blowers and coils if mechanical units were operated without filters during construction.
   5. Clean interior and exterior glazing and mirrors, polish transparent and glossy surfaces and clean floors with appropriate materials and equipment.
   6. Remove waste, foreign material and debris from roofs, areaways and drainage systems.
   7. Before Tenant occupancy, conduct an inspection, with the Tenant, of exposed interior and exterior surfaces at all work areas, to verify that the entire work is clean.

1.4 Starting and Adjusting:

A. Prior to Substantial Completion, coordinate the start-up, test and balance, placement in operation and adjustment all systems, controls and equipment to verify proper operation. All systems shall be complete and operating prior to final inspection.

1.5 Contract Closeout:

A. Operation and Maintenance Data: Submit one operation and maintenance manual, bound in 8-1/2" x 11" text pages, three D side ring capacity expansion binders with durable plastic covers.
   1. Subdivide the binder contents internally with permanent dividers logically organized as described below. Provide tab titles clearly printed under reinforced laminated plastic tabs.
   2. Provide a table of contents with each product or system description identified.
   3. Provide a directory listing names, addresses, and telephone numbers of the project Architect/Engineer, Contractor, Subcontractors and major equipment suppliers.
   4. Prepare operations and maintenance instructions arranged by system and subdivided by specification section. Identify names, addresses, and telephone numbers of project Subcontractors and suppliers. For each category, identify the following:
      a. Significant design criteria.
      b. List of equipment.
      c. Parts list for each component.
      d. Operating instructions.
      e. Maintenance instructions for each equipment item and systems.
      f. Maintenance instructions for special finishes, including recommended cleaning methods and materials and special precautions for identifying detrimental agents.
   5. Submit operations and maintenance data to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

B. Record/As Built Documents:
   1. Prepare and maintain on site one set of the following record/as built documents:
      a. Contract Documents.
      b. Construction Documents.
      c. Change orders and other modifications to the Contract.
      d. Shop drawings, product data, and samples.
      e. Construction schedule.
   2. Store record/as built documents separate from documents used for construction.
   3. Record actual revisions to the Work, concurrently with construction progress.
   4. Legibly mark and record a description of actual products installed at each specification section, including the following:
      a. Manufacturer's name and product model and number.
      b. Approved product substitutions or alternates utilized.
      c. Changes made by addenda, change orders, and other modifications.
   5. Legibly mark each item to record actual construction, including the following:
      a. Measured depths of foundations in relation to finish first main floor datum.
      b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
      c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the work.
      d. Field changes of dimension and detail.
      e. Details not on original Contract Document drawings.
   6. Submit record/as built documents to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

C. Warranties and Bonds:
   1. Compile warranties and bonds required by the Contract Documents.
   2. Submit duplicate copies of warranties and bonds to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

D. Maintenance Materials and Spare Parts:
   1. Provide extra maintenance materials and spare parts in quantities indicated in the specification sections.
   2. Place in location as directed by the Tenant's Construction Manager.

DIVISION 2 - SITE CONSTRUCTION

1.1 General: Provide site construction work, including services, utilities, earthwork, paving and landscaping in accordance with the site construction work drawings and details.

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

1.1 General: Provide cast-in-place concrete work in accordance with the General Structural Notes, structural drawing and details. Follow shell building documents for specifications, joints and geotech.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 117 "Standard Tolerances for Concrete Construction and Materials."
   2. ACI 301 "Structural Concrete for Buildings."
   3. ACI 305R "Recommended Practice for Hot Weather Concreting."
   4. ACI 306R "Recommended Practice for Cold Weather Concreting."
   5. ACI 315 "Details and Detailing of Concrete Reinforcement."
   6. ACI 318 "Building Code Requirements for Reinforced Concrete."

2.1 Materials:

A. Under Slab Vapor Retarder: Stego Industries LLC, 877-464-7834, internet www.stegoindustries.com high density polyethylene Stego Wrap (10 mil) Vapor Barrier meeting or exceeding ASTM E1745 performance criteria for Class C vapor retarders.
   1. Seam Tape: High density polyethylene tape with pressure sensitive adhesive.
   2. Pipe boots: Shop or site fabricated from vapor retarder material and seam tape.

B. Concrete:
   1. Portland Cement: ASTM C150, Type I
   2. Aggregate: ASTM C33.
   3. Water: Clean and potable.
   4. Reinforcement: When required, comply with drawings reinforcement requirements.
   5. Compressive Strength: Minimum 3000 psi at 28 days.
   6. Admixtures: All admixtures shall be approved by the Tenant's Construction Manager prior to placement in the concrete mix.

C. Topping Concrete: When required to suit installation conditions, Ardex Diama-Top of Ardex Engineered Cements (888) 512-7339, internet www.ardex.com
   1. ULTRAFLOR ARDEX DIAMA-TOP, self-leveling concrete repair material.
   2. Any pinholes that need to be filled shall be filled with ARDEX DIAMA-FILL filling compound for polished concrete, concrete terrazzo and other cementitious wear surfaces applied at the appropriate time during the polishing process.
   3. The primer for areas to receive ARDEX DIAMA-TOP will be ARDEX EP 2000 Substrate Preparation Epoxy.
   4. Installation shall be performed by factory-trained professional applicators in strict accordance with manufacturer's installation instructions.

3.1 Installation

A. Vapor Retarder: Place, protect and repair vapor retarder sheets to match existing manufacturer's installation instructions. 3
   1. Provide a single layer of vapor retarder material over level compacted slab base.
   2. Lap joints and seams 6 inches and seal with seam tape.
   3. Seal all penetrations and repair damaged areas before concrete placement.

B. Reinforcement Place and inspect all reinforcing steel before concrete is placed.

C. Concrete Placement:
   1. Place cast-in-place concrete in accordance with ACI 301 and ACI 305R and 306R recommended practices for hot weather and cold weather concreting. Do not place concrete when temperature is below 40 degrees F.
   2. Wet cure concrete in accordance with ACI 301, using moist curing or moisture-retaining covers

D. Finish: Except where additional floor finish is scheduled, provide a smooth steel trowel finish.
   1. Exposed concrete used as a finish floor surface shall have a smooth finished surface, uniform in texture and appearance and free of trowel marks and other defects affecting ease of maintenance.
   2. Grind smooth surface defects as directed by the Tenant's Construction Manager.

E. Testing: When required, comply with drawings and specification sections testing requirements.

F. Topping Concrete: Prepare concrete floor slab substrate surfaces, prime substrate surfaces, mix, install and finish topping concrete in accordance with manufacturer's application instructions.

SECTION 033600 - RESINOUS FLOORING

1.1 General: Section includes: Decorative resinous flooring systems.

1.2 System Description:

A. Performance Requirements: Provide resinous flooring that has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

1.3 Quality Assurance:

A. Qualifications:
   1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
      a. Installer shall be an established company with at least 3 years experience in the installation of polymer floors.
      b. Contractor shall demonstrate the ability to undertake and complete the required work and furnish documentation regarding the successful completion of projects of similar size and complexity.
   2. Manufacturer Qualifications: Manufacturer shall be capable of providing technical support, qualified applicators, and approval of application methods.

B. Pre-installation Meetings: Conduct a pre-installation meeting to verify flooring system specifications (color, texture, etc.), substrate analysis, and manufacturer's installation instructions.

C. Pre-installation Testing: Conduct pre-installation testing as follows:
   1. Water Vapor Transmission: Calcium Chloride tests should be conducted to determine the amount of water vapor coming through the slab. The results should be compared to limitations set forth by the manufacturer.
   2. Core Sample Testing: (optional) Core samples should be taken and analyzed if the installer believes there to be a problem with the integrity of the substrate that may affect flooring system performance.

1.4 Delivery, Storage & Handling:

A. Ordering: Comply with manufacturer's ordering procedures and allow for enough lead-time for custom blends so as not to interfere with construction schedules.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials where they are protected from direct sunlight and harmful weather conditions. Meet manufacturer's condition for temperature, humidity, etc.

1.5 Project Conditions:

A. Environmental Requirements/Conditions: Substrate and ambient air temperatures shall be in accordance with manufacturer's requirements.

B. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during and after installation as recommended by manufacturer.

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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BROOKLYN, NY 11221

Issue Record:

04/23/2024	LLD REVIEW SET
08/20/2024	PERMIT SET
05/02/2024	BID SET
10/23/2024	CONSTRUCTION SET

Revisions:

3 08/08/2024	PER LLD COMMENTS

Drawn: M.T.W. Checked: J.C.C.

Project No. 22111

Contents:

ARCHITECTURAL SPECIFICATIONS

G010.00

DOB NOW JOB #: B01050687-I1

2.1 Materials:

A. Resinous Flooring: Manufacturer: aiflooring
   1. Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627

2.1 Flooring System:

A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance.
   1. TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating.
   2. TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat.
   3. TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance.

2.3 Product Substitutions:

A. Substitutions: No substitutions permitted.

2.4 Source Quality:

A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer.

3.1 Manufacturer's Instructions:

A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions.

3.2 Examination:

A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
   1. Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials.

3.3. Preparation:

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

B. Surface Preparation:
   1. Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding.
   2. Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations.
   3. Prepare and clean control joints well and fill with an appropriate elastomeric.

3.4 Installation:

A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer.
   1. Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations.
   2. Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application.
   3. Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling.

B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.5 Protection:

A. Protection: Protect installed product and finish surfaces from damage during construction.

SECTION 03395 - CONCRETE SEALING AND POLISHING

1.1 General: Provide a sealed and polished concrete floor finish as shown and specified.

A. Standards
   1. American Society for Testing and Materials:
      a. ASTM-C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
      b. ASTM G23-81, Ultraviolet Light & Water Spray
      c. ASTMC805, Impact Strength
   2. American Concrete Institute
      a. ACI 302. 1R-89, Guide for Concrete Floor and Slab Construction

B. Submittals: Provide the following:
   1. Manufacturer's product data, specifications and installation instructions. Include Material Safety Data Sheets (MSDS) and identify application requirements, curing time and safety requirements.
   2. Certified test reports, prepared by an independent testing laboratory, confirming compliance with performance criteria.
   3. Manufacturer's certification that installer is a certified applicator of special concrete floor finishes, and familiar with manufacturer's installation procedures and requirements for the specified sealed and polished concrete floor finish.
   4. Manufacturer's and installer's written acceptance of substrate surface and installation conditions.

C. Quality Assurance:
   1. Installer Qualifications:
      a. Use a certified installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
      b. The special concrete finish manufacturer shall certify the applicator.
      c. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section. Applicator shall have not less than three years successful experience installing sealed and polished floor finishes similar to those required for this project.
      d. Provide a letter of certification from special concrete finish manufacturer stating that installer is a certified applicator and is familiar with proper procedures and installation requirements required by the manufacturer.
   2. Protection: Contractor shall provide all necessary materials, means, methods and procedures acceptable to the floor finish manufacturer and required to protect the concrete floor surface and provide a suitable substrate for the installation of the specified sealed and polished concrete floor finish.

D. Project Conditions:
   1. Comply with the floor finish manufacturer's environmental limitations for substrate temperature and moisture content, ambient temperature, and humidity, ventilation and other conditions affecting the special floor finish performance.
      a. Concrete must have an average Floor Flatness rating of at least 40.
      b. Concrete must have an average Floor Levelness rating of at least 40.
      c. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of RetroPlate can begin. Wet cure of the concrete is preferred. No concrete sealer is necessary.
      d. Application of RetroPlate shall take place prior to installation of equipment, thus providing a complete, uninhibited concrete slab for application.
   2. Before general sealer/hardener application, prepare and coat a jobsite test area of size acceptable to the Architect, to verify and approve proper surface preparation, application techniques and coverage rate.
   3. Close finished floor areas to traffic during floor finish application and after application for time period directed by the floor finish manufacturer.
   4. The completed RetroPlated slab will be covered to prevent damage by the other trades during store completion.

2.1 Materials

A. Hardening/ Sealing Agent
   1. RetroPlate 99 manufactured by Advanced Floor Products Inc. (801) 812-3420 www.retroplatesystem.com
   2. RetroGuard Stain Inhibitor
   3. Joint Filler: CreteFill Pro 75. Two component 100% solids non-staining Polyurea Elastomer.
   4. Spall Repair: Multiple minor surface defects and irregularities: Crete Fill Spall Repair: High Strength hybrid urethane, two part 100% solids.
   5. Coefficient of friction for Retroguard finish shall not be lower than .40.
   6. Manufacturer's Representative: Contact Scott Maxfield at RetroPlate for a list of Certified Applicators (888)942-3144 scott.maxfield@retroplatesystem.com

3.1 Installation

A. Surface Conditions
   1. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.
   2. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above.
   3. Prior to application, verify that floor surfaces are free of construction latents.

B. Application
The following RetroPlate process will be followed as listed below:
A concrete grinding machine must be used. Please proceed accordingly. The process is as follows:
   1. Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab.
   2. Clean the floor using automatic scrubber or comparable.
   3. Grind floor using 200 grit resin diamonds.
   4. Clean the floor using automatic scrubber or comparable.
   5. Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes.
   6. Grind floor using 400 grit resin diamonds.
   7. Clean the floor using automatic scrubber or comparable.
   8. Clean and remove any excess RetroPlate. Let the floor dry overnight.
   9. Continue the polishing process using 800 grit resin diamonds.
   10. Clean the floor using automatic scrubber or comparable.
   11. Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds.
   12. Clean the floor using automatic scrubber or comparable.
   13. The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate.
   14. Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad.
   15. Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard.

C. Start any of the floor finish applications in presence of manufacturer's technical representative.

D. Sealing, Hardening and Polishing of Concrete Surface
   1. Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin.
   2. Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application.
   3. Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample.
   4. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen.
   5. Polish to a level 2 shine.

E. Workmanship and Cleaning
   1. The premises shall be kept clean and free of debris at all times.
   2. Remove spatter from adjoining surfaces, as necessary.
   3. Repair damages to surface caused by cleaning operations.
   4. Remove debris from jobsite
      a. Dispose of materials in separate, closed containers in accordance with local regulations.

DIVISION 4 - MASONRY

SECTION 04810 - UNIT MASONRY ASSEMBLIES

1.1 General: Provide unit masonry assemblies as shown and specified.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 530.1-02/ASCE 6-02/TMS 602-02 "Specifications for Masonry Structures."
   2. NCMA "TEK Bulletins."
   3. BIA "Technical Notes on Brick Construction."

2.1 Materials:

A. Concrete Masonry Units (CMU): Size and thickness as shown on drawings.
   1. ASTM C 90, load-bearing, normal weight, natural color CMU, properly cured at time of delivery, linear shrinkage not to exceed 0.065%.
   2. Provide special shapes where required.
   3. Provide exterior wall CMU containing an integral polymeric water-repellent admixture.
      a. Manufacturer: W. R. Grace "Dry-BlockR System Block Admix ".

B. Face Brick:
   1. Manufacturer:
      a. Endicott, (402) 729-3315, www.endicott.com (Iron Spot Brick), or as approved by architect
      b. Belden Brick Company, (330) 451-2031, www.beldenbrick.com (White Brick), or as approved by architect
   2. Type: "Face Brick C216" complying with ASTM C216, Grade SW, Type FBS. No efflorescence when tested in accordance with ASTM C67.
   3. Size: Modular size, laying three courses to 8" vertically.
   4. Color: "Alaska White Velour" or "Manganese Ironspot, Velour" as noted on Exterior Elevations
   5. Provide special shapes where required.

C. Mortar Materials:
   1. Portland cement: ASTM C150, Type I or III, natural color.
   2. Masonry cement: ASTM C91, Type indicated, natural color.
   3. Aggregate: ASTM C144, clean masonry sand.
   4. Water: Clean, fresh and potable.
   5. Provide all exterior wall masonry mortar containing an integral polymeric water-repellent admixture.
      a. Manufacturer W. R. Grace, "Dry-BlockR Integral Water-Repellent Mortar Admixture".

D. Unit Masonry Mortar Mixes: ASTM C270 proportions by volume.
   1. Face brick: Type N mortar.
   2. Dye:
      a. SGS #60A "White" by Solomon Grind Services (White)
      b. SM #750 "Silverstone" by Spec Mix (Iron Spot)

E. Reinforced Unit Masonry Grout Mixes
   1. Concrete fill: ASTM C94 3,000 psi concrete.

F. Joint Reinforcement, Wall Ties And Anchors: Finish, ASTM A-153 hot-dip galvanized
   1. Manufacturer: Hohman & Barnard, INC.
   2. Horizontal joint reinforcement: Welded ladder type with matching corners and Tee units.
      a. Single Wythe masonry: Standard single 9 gage side and cross rods. H&B - #220 Ladder-Mesh.
   3. Anchoring devices: Provide strap anchors, inserts, bolts and rods of type and size indicated.
      a. CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel with bent ends.
      b. CMU to structural steel: H&B - VBT - Vee Byne-Tie With Plain Steel (Tie) Used In Conjunction With H&B #359 Weld-on Ties (Anchor Rods).
   4. Masonry Veneer To Woof Framing: H&B - DW-10HS Veneer Anchor, With Adjustable 3/16" Cold-Drawn Steel Wire Tie Sections and 14 GA. Screw-On Attachment Plate.
      a. Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners for each Attachment Plate.
   5. Seismic Masonry Veneer to Wood Framing: (When Required) H&B Seismic Plate Pintle HB-213S with HB-213 (T-Lok Tie)
      a. Fasteners: Seld-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners For Each Attachment Plate.

G. Concealed Masonry Through-Wall Flashing: W. R. Grace "Perm-A-Barrier" self-adhering modified bituminous sheet, 40 mils thick.
   1. Termination Mastic: W.R. Grace "Bituthene Mastic."
   2. Primer: W.R. Grace "Bituthene P-300 Primer."
   3. Termination bars: Extruded aluminum or stainless steel, 1" wide and .098" thick pre-punched at 6" on center, secured with stainless steel drive pins.

H. Accessories
   1. Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated.
   2. Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer.
   3. Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010.
   4. Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt.
   5. Cleaning agents:
      a. Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners."
      b. ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner."
   6. Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces.

3.1 Installation

A. Preparation
   1. Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations.
   2. Lay concrete masonry units dry.
   3. Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed
   4. Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set.

B. Installation - General:
   1. Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown.
   2. Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed.
   3. Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements.

C. Laying Masonry
   1. Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations.
   2. Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work.
   3. Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs.
   4. Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths.
   5. Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths.
   6. Compress and cut joints flush for masonry walls below grade or covered by other materials.
   7. Tool joints in all exposed masonry work to a concave joint.
   8. Provide interlocking masonry bond in each course at corners and intersecting walls.
   9. As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items.
      a. Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout.
      b. Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members.
      c. Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services.
      d. Install anchors, plates and related work built into masonry work.
      e. Install reinforcing steel and concrete fill where indicated. Comply with drawing details.
   10. Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows:
      a. In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings.
      b. Lap reinforcement a full width at the corners and at intersections or use special fabricated sections.
      c. Fully embed side rods in mortar.
   11. Anchoring masonry work: Provide anchoring devices of the type indicated or required.
   12. Provide vertical expansion, control and isolation joints in masonry where indicated.
      a. When not indicated, at maximum 30'-0" on center.
      b. Locate control joints at points of natural weakness in masonry and acceptable to Architect.
      c. Joint sealant color shall match masonry materials sealed.
   13. Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar.
   14. Flashing and weeps:
      a. Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction.
      b. Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation.
      c. Flexible Membrane Flashing:
         1.) Install membrane flashing in accordance with manufacturer's installation instructions.
         2.) Fully adhere flashing to substrate.
         3.) Lap flashing joints a minimum of 6", seal and roll with a hand roller.
         4.) Trim bottom edge 1/4" back from exposed face of masonry.
         5.) Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic.
   15. Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit.
   16. Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant.

D. Masonry Veneer Walls:
   1. Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing.
   2. Space ties 16" on center vertically and horizontally.
   3. Maintain veneer wall cavity free of mortar droppings during masonry installation.

E. Parging:
   1. Dampen masonry walls prior to parging.
   2. Scarify each parging coat to ensure full bond to subsequent coat.
   3. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm).
   4. Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter).

F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:
   1. Draw ACMU from more than one pallet at a time during installation.

G. Reinforced Concrete Masonry
   1. Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.
      a. Comply with drawing details for reinforcing steel size and spacing.
   2. Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing.

H. Repair, Pointing and Cleaning
   1. In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges.
   2. Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved.
   Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense.
   3. Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.
   4. Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and dirt.
   5. Apply cleaning solutions and clean masonry in accordance with the cleaning material manufacturer's cleaning instructions.
   6. Muriatic acid cleaning of masonry not permitted.

I. Architectural Concrete Masonry:
   1. Keep ACMU walls clean during installation. Remove excess mortar on daily basis using brushes, rags or burlap squares.
   2. Clean completed walls with detergent masonry cleaner recommended by the ACMU manufacturer. Acid cleaning agents, abrasive cleaners, tools or powders and metal cleaning tools and brushes are not permitted.
   3. After final clean down and when walls are dry, apply ACMU acrylic finish coating in accordance with ACMU manufacturer's application instructions.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

1.1 General: Provide structural steel in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."
   2. AISC "Code of Standard Practice."
   3. AWS "Structural Welding Code, D1.1-Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Structural Shapes: ASTM A36/A36M, 36 ksi steel.

C. Tubular Steel: ASTM A500, 46 ksi yield strength steel, cold-formed welded and seamless.

D. Structural pipe: ASTM A53, type and grade selected by the fabricator as required for design loading, standard finish, standard weight (Schedule 40) except as otherwise indicated.

E. Grout: ASTM C1107, pre-mixed, shrinkage resistant, non-metallic, non-corrosive, non-staining grout.

F. Shop paint primer: Refer to Section 09900 - Paints and Coatings.

G. Fabrication: Fabricate structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice." Provide welded or bolted connections in accordance with the Structural Drawings connection requirements.
   1. Welding: Conform to AWS welding standards. Provide only continuous welds, spot welding is not acceptable. Grind all exposed welds smooth.
   2. Splicing: Material, if spliced, shall have maximum one splice per structural member. Perform splicing by full penetration butt-welding using AWS qualified welders and welding methods.
   3. Shop painting: Shop paint structural metal members, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded and galvanized surfaces. Refer to Section 09900 - Paints and Coatings.

3.1 Installation:

A. Erection: Erect structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice".
   1. Plumb, level and align base plates for structural members with steel shims.
   2. Grout structural steel base plates solid that bear on concrete or masonry surfaces.

B. Testing: When required, comply with drawings testing requirements.

SECTION 05400 - COLD-FORMED METAL FRAMING

1.1 General: Provide cold-formed metal framing in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISI SG02.2-01 "Design of Cold-Formed Steel Structural Members."
   2. AWS "Structural Welding Codes, D1.3-Sheet Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Load-Bearing Cold-Formed Metal Framing: ASTM A1003, Gage, Grade and Type indicated.
   1. Components: Provide sizes and shapes indicated.
   2. Finish: Galvanized complying with ASTM A653, minimum G60 coating.

C. Fabrication:
   1. Cold-formed metal framing may be prefabricated into panels before erection. Fabricate panels plumb, square, true to line and braced against racking with joints welded.
      a. Provide one-piece full-length cold-formed metal framing members. Splicing not permitted.
   2. Attach and join other components by welding or screw fasteners, as indicated. Wire tying of framing components is not permitted.
   3. Cut framing to fit squarely for attachment to perpendicular members or as required for angular fit against abutting members. Hold members securely in position until properly fastened.
   4. Saw cut field cut framing. Torch cutting not acceptable.

3.1. Installation:

A. Erection: Erect cold-formed metal framing members of gage and at spacing indicated on the Structural Drawings. Align and secure studs to top and bottom runner tracks by welding or screw fasteners at both inside and outside flanges.

B. Tolerance Acceptance: Install cold-formed metal framing member as indicated on the plans. Install to 1/16" tolerance.

SECTION 05500 - METAL FABRICATIONS

1.1 General: Provide metal fabrications as shown and specified.

A. Submit shop drawings for the following:
   1. Patio Rail systems.
      a. Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.
      b. Show true profiles, connections and relationship to adjoining work and methods of anchoring.

2.1 Materials

A. Materials compliance: When requested, submit acceptable data documenting materials compliance.

B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.

C. Stainless Steel:
   1. Wall: 18 gage, ASTM A167, AISI Type 304 stainless steel, No. 4 finish.

D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.
   1. Wall: Bright reflective finish.
   2. Floor: Mil finish.

E. Patio Railing System
   1. Submit shop drawings including the following:
      a. Show thickness, size, construction and welding, as well as assembly drawings.
      b. Show true profiles, connections of all typical joint configurations
      c. Show installation (fastening) and proposed grout (non-gypsum base)
      d. Show gate detail and gate hardware manufacturer and model number
      e. Patio railing plan, with dimensions and panel assembly locations.
   2. Fabrication
      a. Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
      b. Corner connector angles shall be 2 1/2" x 2 1/2" x 1/4" steel L angle.
      c. Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
      d. Gate stop shall have a rubber cushion stop and be affixed to the active gate.
      e. All corners and joints shall be seal welded and outside joints ground smooth.
      f. All welding spatter shall be removed before sand blasting.
   3. Finish
      a. Patio railing shall be painted PPG Durethane, color 518-6 Knight's Armor. Refer to Section 09900 - Paints and Coatings for preparation.

F. Exposed Fasteners:
   1. Diamond Plate: #8 x 1" bevel headed stainless steel screw.
   2. Patio Railing:
      a. All fasteners shall be stainless steel and powder coated to match railing sections.
      b. Spacer washers separating railing sections shall be 1 1/2" diameter and 1/2" thick they shall be one piece thick washers and not comprised of stacking washers
      c. Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.

G. Shop paint primer: Refer to Section 09900 - Paints and Coatings

Consultant:

HBC

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Contents:

ARCHITECTURAL SPECIFICATIONS

G011.00

DOB NOW JOB #: B01050687-I1

3.1 Installation: Comply with the Architectural Drawing details and the following:

A. Exposed Fasteners:
1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish.
2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.

B. Stainless Steel:
1. Wall:
a. Clean stainless steel panel with mineral spirits.
b. Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
c. Trim seams as indicated on the Drawings. No exposed fasteners.

C. Diamond Plate:
1. Wall: Mount over plywood substrate w/ flush exposed fasteners.
2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.
3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.

D. Patio Railing System:
1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter
2. Railing posts shall be grouted in using non gypsum quick set grout.
3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.

E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1.1 General: Provide rough carpentry work as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. NIST PS-1-95 "Construction and Industrial Plywood."
2. NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels."
3. NIST PS-20-99 "American Softwood Lumber Standard."
4. NF&PA NDS-97 "Wood Construction and Supplement."
5. AWPA "Wood Treatment Standards."

2.1 Materials:

A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated.
1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species.
a. Provide preservative treated lumber, where indicated.

B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick.
1. APA-RATED SHEATHING EXP1.
a. Provide Exterior Grade (EXT) plywood, where indicated.
b. Provide fire-retardant treated plywood, where required by Building Code.

C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick

2.2 Wood Treatment:

A. Preservative Treatment: Comply with applicable requirements of AWPA Standards C2 (Lumber).
1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
2. Treat wood blocking, nailers and similar members in connection with roofing and flashing.
3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.

B. Fire-Retardant Treatment: Comply with applicable requirements of AWPA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking.
1. Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.

C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.

3.1 Installation:

A. Lumber: Provide wood blocking, nailers and similar members where shown and where required for attachment of other work and surface applied items. Attach to substrate as required to support applied loading.
1. Use only sound, seasoned materials of longest practical lengths and sizes to minimize joints.
2. Use materials free of warp. Make tight connections between members.

SECTION 06210 - FINISH CARPENTRY AND MILLWORK

1.1 General: Provide finish carpentry and millwork as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. AWI "Architectural Woodwork Quality Standards - 1999."

B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections.

C. Submit shop drawings for designated millwork.
1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details.
2. List proposed cabinet hardware to suit indicated unit use or function.
3. Identify materials required to complete work ready for installation.
4. Obtain shop drawing approval before starting fabrication.

2.1 Materials:

A. Plywood: AWI Section 200
1. Concealed use substrates: CDX, D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8" thick. (OSB is an alternative as allowed by Chipotle CM)

2. Exposed to view finishes: Random plank matched or slip and swing matched spalted maple veneer on 3/4" Baltic birch core, with mill option sound grade hardwood backer. Spalted maple grain to run horizontally .5 sheen matte clear waterborne finish. Panels to be provided at 47" height, with widths varying from 24" to 96".

B. Millwork: Materials and construction as detailed on the Drawings.

C. Fabrication:
1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings.
2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option.
3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place.
4. Fabricate work straight, plumb, level and in true alignment; neatly and accurately fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects.
5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.

D. Finish: Sayerlack Hydroplus Waterborne Clear, 5 sheen.

3.1 Installation

A. Install finish carpentry and millwork products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops) and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.
1. Scribe and cut finish carpentry and millwork products to fit adjoining work.
2. Anchor finish carpentry and millwork items to built-in place blocking, furnished under Section 06100, or directly attach to substrate framing. Secure to grounds, blocking and nailers with countersunk, concealed fasteners and blind nailing as required for a complete installation.
3. For installation of prefinished millwork wall panels, use finish nails for exposed nailing, installed with pneumatic nailer as per the following guidelines:
a. Nailer to be set for countersunk head approximately 1/8" on the face.
b. Use 16 ga straight finish nails in 2" length
c. Provide "dab" of construction adhesive on backside of panels at regular intervals.
d. Random placement preferred, do NOT group nails together.
e. No nails closer than 2" from any edge.
f. All nails to be no greater than 16-18" apart in any direction.
4. Touch-up shop finished plywood materials marred or damaged during delivery, storage and installation with custom blended polyurethane to equal Minwax "Wipe on Poly".

B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.

C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.

SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS

1.1 General: Provide fiberglass reinforced plastic panels as shown and specified.

2.1 Materials:

A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com, Email: info@marlite.com

B. Panel System: 'P6' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Class A, pebbled matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
a. Inside Corner - M350
b. Outside Corner - M360
b. Division - M365
c. Edge - M370
2. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/2" outside corners as required to complete the installation.
3. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
4. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

C. Panel System: 'P2' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: S100G White, smooth matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation.
a. Edge - M370
2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
3. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

D. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture

3.1 Installation

A. Install the FRP system products using panel adhesive in accordance with the manufacturer's instructions and layout as shown in drawings.
1. Install panels plumb, level, true and straight with no distortion; providing a continuous bead of silicone sealant in each joint and trim groove and between trim and adjacent construction.
2. Provide corner trim, closure trim at intersections of dissimilar materials and moldings at abutting panels.

SECTION 07210 - BUILDING INSULATION

1.1 General: Provide building insulation as shown and specified.

2.1 Materials:

A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www dowbuildingmaterials.com
1. Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
2. Perimeter foundation walls: Styrofoam SE, R-value indicated.

B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com.
1. Type: Owens Corning " Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665,. Provide lengths and widths required to coordinate with spaces insulated.
2. Exterior walls: Unfaced, R-value/thickness indicated

C. Vapor barrier membrane: Polyethylene, minimum 6 mils thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perm.
1. Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets.
2. Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing.

3.1 Installation:

A. General:
1. Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids.
2. Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork.

B. Foundation perimeter walls and slabs:
1. Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls.
2. Protect insulation from displacement and damage during backfilling and slab placement

C. Exterior Walls:
1. Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members.
2. Provide galvanized wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location.

D. Vapor Barriers:
1. Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing.
2. Provide single unsplliced material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier.
3. Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.

SECTION 07240 -EXTERIOR INSULATION AND FINISH SYSTEM (PB)

1.1 General: Provide the exterior insulation and finish system (EIFS) as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. EIMA (EIFS Industry Members Association) Standards and Publications.
a. 101.01, 101.02, 101.03, 101.86, 105.01, 200.02.
b. EIMA "Guideline Specification for Expanded Polystyrene (EPS) Insulation board."

B. Quality Assurance:
1. System components:
a. Produced by a single manufacturer or by manufacturers approved by the EIFS system manufacturer.
b. Fire performance: Flame spread of 25 or less, smoke developed of 450 or less when tested in accordance with ASTM E84.
2. Installer Qualifications: Performed by the system manufacturer or an applicator trained and approved by the system manufacturer. During application, the work shall be inspected by system manufacturer's representative.

C. Environmental conditions: Comply with manufacturer's requirements. Do not install materials during wet or freezing weather.

2.1 Materials

A. Manufacturer: STO Corp., (800) 221-2397, internet www.stocorp.com

B. Exterior insulation and finish system: Sto Class PB "Essence NExt" EIFS.
1. Air/Moisture barrier: Sto Guard system.
a. Sto Gold Fill Joint compound for rough opening protection, sheathing joints and inside and outside corners.
b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh.
c. Sto Gold coat: Waterproof coating for wall sheathing.
2. Primer/adhesive and base coat: Sto Primer/Adhesive-B, one-component, polymer modified, cement -based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings.
3. Insulation board: ASTM C578 Type 1, nominal 1.0 lb/ft^3 expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board.
4. Finish coating: Sto Essence DPR, ready-mixed 100% acrylic-based, textured wall coating.
a. Medium/Fine Sand Finish.
b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color.
5. System warranty: 10 year labor and material.

C. Portland cement: ASTM C150, Type I or II, white or gray in color.

D. Water: Clean, potable and free of foreign matter.

E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating.
1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd^2 fabric.
2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd^2 ultra-high impact fabric.
3. Specialty mesh:
a. Sto Detail Mesh, nominal 4.2 oz/yd^2 flexible, symmetrical, interlaced glass fiber fabric.
b. Sto Corner Mat, nominal 7.8 oz/yd^2 pre-creased, heavy-duty, glass fiber fabric.

F. Joint sealants: Polyurethane base elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements.
1. Adhesion: Evaluated in accordance with ASTM C1382.
2. Color: Matching EIFS finish coating color, and visually acceptable to the Architect.

G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer.
1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.

3.1 Mixing

A. Mix materials in accordance with manufacturer's published instructions.
1. Mix with a clean, rust-free high speed mixer to a uniform consistency.
2. No rapid binder, anti-freeze or accelerator additives permitted.

4.1 Installation

A. Preparation:
1. Coordinate installation of roofing membrane, windows, doors and other wall penetrations to provide a continuous exterior wall air/moisture barrier.
2. Coordinate installation of windows, doors and window and door flashing to provide a continuous exterior wall air/moisture barrier.
3. Install copings and joint sealants immediately after installation of the EIFS, when EIFS coatings are dry.

B. Installation: Install Sto Guard air/moisture barrier system and exterior insulation and finish system (EIFS) in strict accordance with manufacturer's installation instructions, complying with governing regulations and industry standards applicable to the work.
1. Back wrap exposed board edges with mesh.
2. Provide double wrap or corner mat reinforcing at all inside and outside corners.
3. Provide expansion joints in accordance with manufacturer's recommendations for type of substrates and systems required, and visually acceptable to the Architect.
4. Provide drainable starter track horizontal edge trim as base of wall, above windows and doors openings and beneath windows with concealed flashing.

C. Insulation and adhesive application:
1. Install insulation board with long edge horizontal using running bond pattern. Off set insulation joints with substrate joints. Stagger joints and interlock joints at corners.
2. Apply adhesive to insulation board with a stainless steel trowel notched trowel, providing vertical uniform ribbons of adhesive when board is installed. Mount insulation board on substrate. Level, align and tamp insulation in place. Provide uniform contact and bond with joints tightly butted. Rasp edges and high areas as required to produce a level, plane surface.

D. Base coat and reinforcing mesh application:
1. Apply detail mesh at corners of windows, doors, and all penetrations through the EIFS.
2. Standard mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness, including high impact mesh where indicated. Embed standard reinforcing mesh into wet adhesive, lap edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry.
3. Ultra-High impact mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness. Fully embed ultra-high impact reinforcing mesh into wet adhesive, butt edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry. Locate at 4'-0" wide perimeter of the rear service door to 6'-0" above grade and as indicated on Architectural drawings.

E. Apply finish coating continuously in one operation to the entire wall surface Provide a uniform finished appearance. Level and texture to the specified finish texture.

F. Install joint sealants at perimeter joints and joints within the system using elastomeric joint sealants, in accordance with drawing details and sealant manufacturer's recommendations.

SECTION 07250 - WEATHER BARRIERS

1.1 Section Includes

A. Weather barrier membrane
B. Seam Tape
C. Flashing
D. Fasteners

1.2 References

A. ASTM International
1. ASTM C920; Standard Specification for Elastomeric Joint Sealants
2. ASTM C1193; Standard Guide for Use of Joint Sealants
3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting
4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics
5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
6. ASTM E96; Test Method for Water Vapor Transmission of Materials
7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls.
8. ASTM E2178; Test Method for Air Permeance of Building Materials

B. AATCC - American Association of Textile Chemists and Colorists
1. Test Method 127 Water Resistance: Hydrostatic Pressure Test

C. TAPPI
1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area)
2. Test Method T-460; Air Resistance (Gurley Hill Method)

1.3 Quality Assurance

A. Qualifications
1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions.
2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations.
3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer.

1.4 Delivery, Storage and Handling

A. Refer to Section 01400 Quality Requirements.
B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
C. Store weather barrier materials as recommended by weather barrier manufacturer.

1.5 Scheduling

A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly.
B. Schedule installation of weather barrier materials and exterior cladding within nine months of weather barrier assembly installation.

2.1 Manufacturer

A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.44TYVEK (8-9835); http://constructiontyvek.com

2.2 Materials

A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components.

B. Performance Characteristics:
1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677.
2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B.
3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127.
4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410.
5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460.
6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A.
7. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117.
8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.

2.3 Accessories

A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications.

B. Fasteners:
1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer.
2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.

C. Adhesives:
1. Provide adhesive recommended by weather barrier manufacturer.
2. Products:
a. Liquid Nails LN-109
b. Polyglaze SM 5700
c. Denso Butyl Liquid
d. 3M High Strength 90
e. SIA 665
f. Adhesives recommended by the weather barrier manufacturer.

D. Primers:
1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
2. Product:
a. 3M High Strength 90
b. Denso Butyl Spray
c. SIA 655
d. Permagrip 105
e. ITW TACC Sta' Put SPH
f. Primers recommended by the flashing manufacturer.

E. Flashing:
1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
2. DuPont Straightflash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc.
3. DuPont Straightflash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.

3.1 Examination
A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.

3.2 Installation - Weather Barrier
A. Install weather barrier per regional requirements in accordance with manufacturer recommendations.
B Install weather barrier prior to installation of windows and doors.
C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap.
D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level.
E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer.
F. Window and Door Openings: Extend weather barrier completely over openings.
G. Overlap weather barrier
1. Exterior corners: minimum 12 inches.
2. Seams: minimum 6 inches.
H. Weather barrier Attachment:
1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally.
2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier manufacturer recommended fasteners, spaced 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches on center, when coordinated on the project site.
I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.

3.3 Seaming

A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams.
B. Seal any tears or cuts as recommended by weather barrier manufacturer.

3.4 Opening Preparation (for use with non-flanged windows - all cladding types)

A. Flush cut weather barrier at edge of sheathing around full perimeter of opening.
B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.

3.5 Flashing (for use with non-flanged windows - all cladding types)

A. Cut 9-inch wide DuPont FlexWrap a minimum of 12 inches longer than width of sill rough opening. Apply primer as required by manufacturer.
B. Cover horizontal sill by aligning DuPont FlexWrap edge within side edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before a adhering up the jambs.
C. Fan DuPont FlexWrap at bottom corners onto face of wall. Firmly press into place. Mechanically fasten fanned edges.
D. Apply 9-inch wide strips of DuPont StraightFlash at jambs. Align flashing with interior edge of jamb framing. Start DuPont StraightFlash at head of opening and lap sill flashing down to the sill. Spray-apply primer to top 6 inches of jambs and exposed sheathing.
E. Install DuPont FlexWrap at opening head using same installation procedures used at sill. Overlap jamb flashing a minimum of 2 inches.
F. Coordinate flashing with window installation.
G. On exterior, install backer-rod in joint between window frame and flashed rough framing. Apply sealant at jambs and head. leaving sill unsealed. Apply sealants in accordance with sealant manufacturer's instructions and ASTM C 1193.
H. Position weather barrier head flap across head flashing. Adhere using 4-inch wide DuPont StraightFlash over the 45-degree seams.
I. Tape top of window in accordance with manufacturer recommendations.
J. On interior, install backer rod in joint between frame of window and flashed rough framing. Apply sealant around entire window to create air seal. Apply sealant in accordance with sealant manufacturer's instructions and ASTM C 1193.

3.6 Protection
A. Protect installed weather barrier from damage.

Consultant:

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Contents:

ARCHITECTURAL SPECIFICATIONS

G012.00

DOB NOW JOB #: B01050687-I1

SECTION 07512 - ROOFING SYSTEM REPAIR

1.1 General: When penetration of the existing roofing system is required to accommodate new construction, perform necessary roofing system repair.

A. Coordination: Before starting work, verify with the Tenant's Construction Manager and the Owner the following:
1. Existing roof system materials and installation methods.
2. Repair work responsibilities and warranty requirements. To maintain original warranty, where provided use original roof contractor.

B. Qualifications: Repair work shall be performed only by an experienced roofing installer approved or licensed by the existing roofing system materials manufacturer; with not less than five years of successful experience installing and repairing roofing systems similar to this projects existing roofing system.

2.1 Materials:

A. Provide and install only materials approved and recommended by the roofing manufacturer for repairing the existing roofing system.

3.1 Installation:

A. Preparation: Inspect roof surface conditions with roof manufacturer's representative to verify extent and location of any other repairs required to ensure a watertight roofing system upon completion of the repair work.

B. Make necessary repairs. Match existing roof slope, insulation materials and roofing membrane materials, except as otherwise approved by the existing roofing system manufacturer to accommodate new construction and repair work.

C. Install curb flashing furnished by mechanical and electrical trades for new roof top equipment.

NOT USED

SECTION 07530 - THERMOPLASTIC MEMBRANE (PVC) ROOFING

1.1 General: Provide the thermoplastic membrane (PVC) roofing system as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. ASTM D5036 "Application of Adhered Poly(Vinyl Chloride) Sheet Roofing."
2. FM 1-29 Loss Prevention Data Adhered or Mechanically Attached Single Ply Membrane Roof Systems."
3. NRCA "Single-Ply Roofing Membrane."
4. UL "790 - Tests for Fire Resistance of Roof Covering Materials."

B. Installer Qualifications: An experienced roofing installer approved by roofing system manufacturer and with not less than five years of successful experience installing membrane roofing systems similar to those required for this project.

C. Deliver, store and handle roof system materials in accordance with manufacturer's recommendations to avoid damage and deterioration.
1. Comply with manufacturer's recommendations for handling and protection during installation.

D. Install roofing work only when weather conditions are in compliance with manufacturer's specific environmental requirements and conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
1. Protect adjacent materials and surfaces from damage and soiling during roofing system installation.
2. Provide special protection on completed roofing work.
3. Protect paving and structure walls adjacent to hoists before starting work.
4. Do not overload the building structure with storage of materials or installation equipment on the substrate decking.

E. Warranty
1. Contractor and roof system installer shall jointly warrant roofing materials and installation for a period of two years from the date of Substantial Completion. Warranty shall include roofing membrane, flashing, roof insulation, roofing accessories and sheet metal work provided under Section 07600.
2. Manufacturer's warranty: Submit executed copy of roofing system manufacturer's 15 year total system warranty, including labor and materials for the entire roof system. Including perimeter edge metal, Section 07600 Flashing & Sheet Metal

2.1 Materials

A. Manufacturer: Duro-Last Roofing, Inc, (614) 370-5569, Mike Suman, www.duro-last.com
B. Thermoplastic single ply membrane roofing system: DL Membrane (PVC) fully adhered, smooth surface, UL Class A fire-rated single ply membrane roofing system.
1. Thermoplastic membrane: DL Membrane, thermoplastic fiber reinforced PVC membrane, not less than 40 mils (.040), complying with ASTM D4434 and membrane manufacturer's published physical properties.
C. The roof covering design must resist a wind load of 100 mph, Exposure C and shall resist impact damage based on results of tests based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or FM 4470
1. Insulation cover board: Georgia-Pacific Corp. (800) 284-5347, internet www.gp.com, "Dens-Deck" nonstructural fiberglass- faced, silicone-treated gypsum core panels, 1/2"" thickness.
2. Roof insulation: Rigid closed cell polyisocyanurate boards approved by the membrane manufacturer; complying with ASTM C1289, Type II, minimum 20 psi compressive strength, aged R-value equal 5.6 per inch of thickness.
a. Provide a double layer installation. Minimum total R-value as indicated on plans.
b. Specified perimeter edge metal shall be compliant with International Building Code ANSI / SPRI ES-1, ER2 testing requirements.
3. Flashing: Roof system manufacturer's standard sheet flashing of same material, type, and color as sheet membrane. Specified perimeter edge metal will be compliant with International Building Code ANSI / SPRI ES-1, RE2 testing requirements.
4. Membrane Bonding Adhesive: Roof system manufacturer's standard membrane bonding adhesive.
5. Insulation and Cover Board Adhesive: Dow Chemical Company, (888) 868-1183, internet www.flexibeproducts.com, "INSTA-STIK Professional Roof Insulation Adhesive", a single component, moisture cured polyurethane adhesive.
6. Fasteners: Roof system manufacturer's standard fasteners for project conditions indicated.
7. Accessories: Roof system manufacturer's recommended pourable sealers, preformed penetration flashing, preformed corner flashing, seam caulk, termination bars and other accessories required for substrate surfaces and installation conditions indicated.
8. Traffic walkways: Duro-Last Roof Track II walkway pads.3.1Installation

3.1 Installation

A. Preparation:
1. Clean substrate surfaces of debris and other substances detrimental to roofing installation.
2. Correct unsatisfactory conditions before starting roofing. Roof deck surface conditions shall comply with manufacturer's requirements and be acceptable to the roofing system installer.

B. Installation:
1. General: Provide roofing system materials and installation complying with roofing system manufacturer's instructions and governing codes and regulations.
a. Mix and apply roof insulation and cover board adhesive in strict accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at manufacturer's recommended application rate using approved dispensing equipment.
2. Roof insulation.
a. Extend insulation full thickness over entire surface to be insulated. Cut and fit around obstructions; fill all voids with insulation. Provide saddles and tapered edges as required to provide positive proper drainage.
b. Install and secure in place with insulation adhesive, a double layer of insulation units of the required thickness. Run long joints of insulation in continuous straight lines, perpendicular to roof slope, with end joints staggered between rows. Stagger joints of each layer of insulation. Butt edges to moderate contact. Limit joints between adjacent units to maximum 1/4".
3. Insulation cover board: Install and secure in place with insulation adhesive a single layer of insulation cover board on installed roof insulation. Secure cover board in accordance with membrane manufacturer's recommendations. Stagger joints with joints of roof insulation.
4. Thermoplastic membrane: Comply with membrane manufacturer's instructions and recommendations for handling and installing single ply membrane roofing.
a. Unroll and position roofing sheet membrane without stretching. Align top sheet with pr-marked lines on bottom sheet. Allow membrane to "relax" for at least 30 minutes before adhering, splicing and flashing.
b. Adhere membrane to insulation cover board with bonding adhesive. Broom bonded membrane to achieve maximum contact.
c. Join membrane seams using approved heat welding equipment. Check all splices for voids and repair voids with heat gun and roller.
d. When required, mechanically fasten membrane at roof perimeter, curb flashing and similar penetrations in accordance with manufacturer's installation instructions.
e. Flash and make weathertight all equipment curbs, pipes, conduits, drains and other penetrations or projections through sheet roofing using roofing system manufacturer's recommended flashing materials, accessories and procedures.
5. Install roof accessories and traffic walkways in accordance with manufacturer's instructions.
6. Install sheet metal work furnished under section 07600.

SECTION 07600 - FLASHING AND SHEET METAL

General:

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

1.1 Pre-manufactured perimeter edge metal and accessories

Manufacturer: Duro-Last Roofing / Exceptional Metals, Inc, (800) 248-0280, Jason Dark, www.Duro-Last.com

A. Duro-Last / Exceptional Metals Snap Coping made of 24-gauge galvalume, cover provided with Kynar architectural finish providing a 35 year finish warranty. Meets ANSI/SPRI ES-1 2003 method RE-2 testing requirements. (Color - Refer to Exterior Elevations)
B. Duro-Last / Exceptional Metals Vinyl backed scupper. Scupper profile & size indicated Fig 1-20.

1.2 General: Miscellaneous sheet metal

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

2.1 Materials:

A. Galvanized steel: ASTM A653 commercial quality sheet steel with 0.2% copper, G90 hot-dip galvanized. Gage indicated. 3
1. Scuppers: Minimum 16 gage.
2. Coping/Wall caps: Minimum 18 gage.
B. Aluminum sheet: ASTM B209 alloy 3003, temper as required for forming and performance. Thickness indicated.
1. Conductor Boxes: Minimum 0.040"thickness.
2. Downspouts: Minimum 0.025"thickness.
C. Joint sealers: One-component silicone elastomeric joint sealant complying with ASTM C920. Color matched to sheet metal finish.
D. Metal accessories: Provide sheet metal fasteners, clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material installed, non-corrosive, size and gage as required for performance and acceptable to the Architect.
E. Fabrication: Shop fabricate sheet metal work to comply with profiles and sizes indicated and to comply with standard industry standards as shown by SMACNA in the "Architectural Sheet Metal Manual."
1. Conductor boxes: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-25.
2. Scuppers: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-20.
3. Downspouts: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated. Installation Fig. 1-31 with strap hanger Fig. 1-35.
4. Formed coping/wall caps: SMACNA Chapter 3 - Copings. Design Fig 3-1. Profile and size indicated with Fig. 3-3 butt joints and concealed back-up plates. Install formed copings with continuous cleat fasteners similar to Fig 3-1 at exposed face and screw fasteners with washers space maximum 24" on center at roof side.

3.1 Installation:

A. Preparation: Coordinate sheet metal work with other work for the correct sequencing of items which make up the entire roof system of weatherproofing and rain drainage:
B. Installation: Comply with SMACNA "Architectural Sheet Metal Manual" recommendations, drawing details and approved shop drawings for installation of the work.
1. Anchor sheet metal items securely in place by methods indicated, providing for thermal expansion. Conceal fasteners and expansion provisions whenever possible. Install joint sealants where required.
2. Set units true to lines and levels indicated. Install work with sealed laps, joints and seams that will be permanently watertight and weatherproof. Bed flanges of sheet metal work in thick coat of roofing cement or sealant compatible with roofing membrane.
3. Separate sheet metal work from dissimilar metals and treated wood materials. Provide rosin-sized paper slipsheet over treated wood.
4. Fabricate, support and anchor conductor boxes and downspouts to withstand thermal expansion, stresses and full loading by ice or water without damage, deterioration or leakage.

NOT USED

SECTION 07620 SHEET METAL FLASHING

1.1 General:

A. Standards:
1. Furnish all labor, material, tools, equipment and services for all preformed fascia and wall panels as indicated, in accord with provisions of Contract Documents.
2. Completely coordinate with work of all other trades.
3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

B. Related work specified elsewhere:

1. Structural steel: Section 05100
2. Steel joists: Section 05200 or 05400
3. Flashing and sheet metal: Section 07600

1.2 Quality Assurance:

A. Applicable standards:
1. SMACNA: "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
2. AISC:"Steel Construction Manual" American Institute of Steel Construction.
3. AISI: "Cold Form Steel Design Manual: American Iron and Steel Institute.
4. ASTM A792-83-AZ50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume).

B. Manufacturer's qualifications:
1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

1.3 Product Delivery, Storage and Handling

A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.
B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.
C. Storage: Store all materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build up between each panel or trim/ flashing component.

2.1 Materials

A. Metal wall system profile:
1. Shadow Rib: 3 inch deep x 16 inch width with 1 1/2 inch deep x 5 1/4 inch wide fluting
B. Metal wall system style:
1. Fluted face
2. Concealed fasteners
C. Gauge: 24 gauge
D. Substrate: Per Plans
E. Texture: Smooth
F. Finish: Premium thermoset silicone polyester (20 year warranty)
G. Color: Polar White, to be painted per Exterior Elevations
H. Acceptable Manufacturer: MBCI Houston, Texas (281) 445-8555.

3.1 Surface Conditions

A. Examination:
1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

3.2 Installation

A. Install metal wall system system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.
B. Install metal wall system in accordance with manufacturer's instructions and shop drawings.
C. Provide concealed anchors at all panel attachment locations.
D. Install panels plumb, level and straight with seams parallel, conforming to design as indicated.

3.3 Cleaning, Protection

A. Dispose of excess materials and remove debris from site.
B. Clean work in accordance with manufacturer's recommendations.
C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
D. Touch up minor scratches and abrasions.

3.4 Field Painting

A. Refer to section 09900 on G017
B. Follow manufacturer's technical bulletin for Precoated Signature 200 MBCI wall panels.

Section 07900 – JOINT SEALERS

1.1 General: Provide joint sealers as shown and specified.

A. Standards:Comply with ASTM C 920 requirements.

B. Application: Performed by skilled, experienced joint sealer applicators.

2.1 Materials:

A. Poly urethane sealants:
1. Tremco Commercial Sealants (800) 321-7906, internet www.tremcosealants.com,
a. "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
b. "Dymeric 240 FC" Multi Component, gun grade, chemically curing, tintable fast setting polyurethane sealant.
2. Sonneborn, (724) 756-9582, internet www.sonneborn.com
a. Color pack for polyurethane multi component, gun grade chemically curing sealant.

B. Silicone Sealants:
1. General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
a. "SCS1700 Sanitary – Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
b. "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
c. "Silglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
d. "GE Paintable Silicone" one component paintable silicone.
e. "SCS1009 Silicone Sealant" one-component acetoxy silicone for general purpose sealing and bonding
2. Dow Corning Silicones, (989)496-4000, www.dowcorning.com
a. "Dow 795" – one component, medium modulus, natural cure silicone.

C. Firestopping Sealants: 3M Fire Protection Products, (800) 328-1687, internet www.3M.com/firstop
1. "3M Fire Barrier CP 25WB+ Caulk" or approved equal

D. Joint backing: Non-absorptive, non-staining compressible, non-gassing, polyethylene foam backer rod compatible with joint sealants.

3.1 Installation:

A. Preparation: Clean and prepare joints prior to installing sealers:
1. Wipe shipping oils from surfaces to be sealed. Remove protective films and/or install joint backer rod if joint is larger than ¼" in width.

B. Installation: Install joint sealant materials in strict accordance with manufacturer's installation instructions.
1. Apply sealants in a uniform, continuous bead without gaps or air pockets. Hand tool and finish all joints so that a smooth, small, lip free uniform line is created along the substrate being shot. Remove any excess materials from tooled edges and ends of joint.
2. Install joint sealants to a depth no more than ½ the width of the joint.
3. Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
4. Immediately, after sealant application, and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated to eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
5. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

4.1 Sealant Schedule:

A. Kitchen Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels
2. Base of FRP wall panels to T.O. specified base material.
3. Walk in cooler walls to FRP wall panels.
4. Stainless closure pieces at cooler walls to FRP wall panels.
5. FRP/stainless corner guards to FRP wall panels.
6. Ceiling tile pipe penetrations.
7. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
8. Mop sink stainless surround perimeter to walls.
9. FRP closure panel, at top of cooler, to cooler walls.
10. FRP wall panels to hollow metal door frames.
11. Coke line bundle to PVC cap.
12. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
13. Battery backup cover panel to FRP.
14. Faucet's to FRP wall panels.
15. FRP wall panels to quarry tile cove base.
16. FRP to aluminum plate at walk thru.
17. Menu board light bracket to ceiling.
18. Mop sink base at quarry tile.
19. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
20. Paper towel dispensers & soap dispensers to FRP/tile walls.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless closer pieces, at sides of cooler walls - to cooler walls.
2. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
3. Diamond plate panel seam joints.
4. Diamond plate perimeter to cooler walls.
5. Base of diamond plate to quarry tile cove base.
6. Stainless closure panel, at top of cooler walls, to cooler walls.
7. Top of quarry tile cove base to cooler walls at inside of cooler.
8. Cooler wall/diamond plate penetrations.
9. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
10. Stainless wrap at hollow metal door frame.
11. Stainless mop surround to stainless corners on mop sink.
12. Base of stainless corner pieces to schlutter strip at base.
13. Exit door threshold perimeters. To frame and floor, interior and exterior.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door jambs to quarry tile floor.

B. Managers Office:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels.
2. Perimeter of manager's desk to FRP wall panels.
3. Hollow metal door frame to FRP wall panels.
4. Top and ends of coat hanger bracket to FRP walls.
5. Base of FRP wall panels to quarry tile base.
6. Ceiling tile wire/pipe penetrations.
7. FRP inside corners to FRP wall panels. Both sides of corner piece.
8. Base of FRP wall panels to quarry tile.

- Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
1. Base of safe to floor.

C. Cooking Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of wall tile to sheetrock ceiling.
2. Ceiling diffusers perimeters to sheetrock ceiling.
3. Ceiling pipe penetrations.
4. Wall tile to aluminum walk thru surround.
5. Tile wall penetrations/escutcheons perimeters.
6. FRP wall panels to sheetrock ceilings.
7. FRP wall panels to aluminum end wall plates.
8. FRP inside corners to FRP wall panels. Both sides of corner piece.
9. Sink to white wall tile.
10. Paper towel dispenser/soap dispenser to white tile.
11. POS/Serving counter to wall tile.
12. Stainless shelf behind grill to wall tile.
13. Faucets to ceramic wall tile.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Joint between hood and closure skirt.
2. Joint between hood support and hood. Both sides.
3. Connection joint between stainless shelf behind grill.
4. Hood to tile walls & sheetrock ceiling.
5. Hood gusset to wall tile on both sides.
6. Sink to bronze wall tile.
7. Paper towl dispenser/soap dispenser to bronze tile.
8. DML counter to bronze tile.

- Provide a continuous bead of dark gray GE SCS2000 at the following locations:
1. Base of equipment to concrete curbs/quarry tile.

- Provide a continuous bead of bronze GE SCS2097 at the following locations:
1. Ceramic tile inside corners.
2. Ceramic tile to aluminum end wall plates.

D. Restrooms:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
2. Perimeter of toilets/urinals to floor or FRP.
3. Perimeter of mirror to FRP.
4. Sink to wall.
5. Perimeter of paper towel/garbage unit to wall.
6. Toilet paper/napkin disposals units to walls.
7. Stainless shelf to wall.
8. Wall penetrations under sink and or escutcheons to perimeters.
9. Hollow metal door frames to FRP.
10. Base of FRP wall panels to top of wall base.
11. FRP inside corners to FRP wall panels.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber wall base to floor.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door frames to floor.

E. Dining area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Wall tile to sheetrock walls.
2. Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
3. Wainscot wall panels (Stonewood or other) to painted walls.
4. Diffuser/louvers perimeters to sheetrock walls.
5. Hollow metal door frames to painted walls - if needed.
6. Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
7. Wall tile at serving line wall to POS counter.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
2. Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
3. Vertical joints of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
4. Stonewood panels at serve line.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Base of garbage surround to floor.

- Provide a continuous bead of Dow 795 silicone at the following locations:
1. Sill of aluminum storefronts to concrete or tile floor. Color to be determined per store to match storefront (Charcoal/Anodized Aluminum/Dark Bronze).

F. Utensil Counter:
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless countertop to backsplash. Horizontal & vertical joints.
2. Base of Coke machine to countertop.
3. Perimeter of tea drain tray to countertop.
4. Stainless backsplash to white tile walls/painted walls.

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Coke line bundle to PVC cap.

G. Fire Rated Walls:
- Provide a continuous bead of 3M 25WB+ at the following locations:
1. Wall/ceiling penetrations in rated walls.

H. Exterior Joints:
- Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
1. Sidewalk/concrete expansion joints.

- Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
1. Hollow metal door frames.
2. EIFS to abutting services.
3. Penetrations in EIFS.
4. Face brick or block control joints.
5. Perimeter of Aluminum Storefronts.
*Colors to be to match existing, adjacent material colors. Verify with Chipotle Construction Manager and Owner's Architect. 3

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following location:
1. CO2 fill port stainless box.
2. Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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Project No.
22111

Contents:

ARCHITECTURAL SPECIFICATIONS

G013.00

DOB NOW JOB #: B01050687-I1

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1.1 General: Tenant to provide steel doors and frames as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
2. ANSI A250.11-01 "Erection Instructions for Steel Frames."
3. SDI 122-99 " Installation for Standard Steel doors and Frames.

B. Manufacturer: A member of the Steel Door Institute (SDI).

2.1 Materials:

A. Steel Doors:
1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.

2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.

B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.
1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.
2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.

C. Door and frame fabrication:
1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.
2. Punch frames and factory install rubber door silencers.
3. Provide minimum three anchors of suitable design for each jamb.
4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.

D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.

3.1 Installation:

A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.

B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.1 General: Provide aluminum entrances and storefronts as shown and specified.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

B. Standards: Materials and construction shall conform to the following:
1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."

1.3 Summary:

A. Section Includes:
1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
a. Types of Kawneer Aluminum Storefront include:
(1.) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set
(2.) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

2. Kawneer Aluminum Entrances, glass and glazing, and components
a. Types of Kawneer Aluminum Entrances include:
(1.) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.

3. Kawneer Tube for Feature Exterior Slat Wall

4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
a. YKK
(1.) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
(2.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
b. Oldcastle
(1.) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
(2.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
c. US Aluminum
(1.) Series FT601 - 2" x 6" nominal dimension; Thermal
(2.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
d. EFCO
(1.) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
e. Wausau
(1.) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

1.4 Performance Requirements:

A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction;
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000
b. Importance Factor: (1.00)
c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000

B. Storefront System Performance Requirements:
1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.
2. Air Infiltration:
a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft. sq. at a static air pressure differential of 6.24 psf.
b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no defection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:
a. Glass to Exterior - 0.47 (low-e)
6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
a. Glass to Exterior - 70 frame and 69 glass (low-e)
7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
a. Glass to Exterior - 38 (STC) and 31 (OITC)

1.5 Submittals:

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.

C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.

1.6 Quality Assurance

A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope

B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of rest reports, and calculations.

C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7 Project Conditions:

A. Field Measurements: Verify actual dimensions of a aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 Warranty

A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

2.1 Manufacturers:

A. Match existing aluminum storefront, review with Owner's Architect. 3

2.2 Materials:

A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.

B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.

C. Aluminum Storefront Entrance Extrusions:Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.

D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.

E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.

2.3 Storefront Framing System:

A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.
1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.

C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.

D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.4 Glazing Systems:

A. Glazing: As specified in Section 08800 - Glazing.

B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.

C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.

D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:
1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.
a. Color: Black
2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.
a. Color: Matching structural sealant.

2.5 Entrance Door Systems:

A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.

2.6 Accessory Materials:

A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers

2.7 Storefront Framing Fabrication:

A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fit joints; make joints flush, hairline and weatherproof.
3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
4. Physical and thermal isolation of glazing from framing members.
5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
6. Provisions for field replacement of glazing.
7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.

D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.

E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 Storefront Entrance Door Fabrication:

A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.

B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.
2. Accurately fit and secure joints and corners. Make joints hairline in appearance.
3. Prepare components with internal reinforcement for door hardware.
4. Arrange fasteners and attachments to conceal from view.

C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.

2.9 Aluminum Finishes:

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Factory Finishing:
1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)
2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM
a. YKK "Charcoal" UC99477, Superior Painted Finishes
b. All others to be verified with samples and submittals to Arch PM

2.10 Brake Metal Trim:

A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.
1. Show actual field measurements on shop drawings.
2. Differentiate between shop and field fabrication.
3. Indicate substrates and adjacent work with which the fabrications must be coordinated.
4. Include large-scale details of anchorages and connecting elements.
5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)

2.11 Formed Metal Fabrications - General:

A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.

B. Coordinaton: Match dimensions and attachement of formed metal items to adjacent construction. Produce integrated assembles. Closely fit joints; align edges and flat surfaces unless indicated otherwise.

C. Forming: Profiles indicated. Maximize lenghts. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain seperation at bends.

D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.

E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.

F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.

G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish, and restore damaged finishes to required condition.
1. Ease exposed edges to small uniform radius.
2. Welded joints.
a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.
b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M
3. Brass/Bronze Brazed Joints:
a. Perform torch brazing in accordance with AWS C3.4M/C3.4
b. Perform induction brazing in accordance with AWS C3.5M/C3.5
c. Perform resistance brazing in accordance with AWS C3.9M/C3.9

H. Performance requirements;
1. Thermal Movements:
a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.
2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

2.12 Formed Metal Fabrications - Sheet Metal

A. Closures, Trim, and Fill Panels:
1. Form Closures from type and thickness of metal indicated.
2. Conceal fasteners when possible.
3. Drill and tap holes for securing to other surfaces.
4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.
5. Miter or cope at corners and reinforce with bent metal plate. Form tigh joints.

2.13 Materials

A. Genaral: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gauge min. thick base material.
C. Anchors, Clips, and Accessories: Use one of the following:
1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.
2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.
3. Steel complying with ASTM A36/A36M and hot-dipped galvenized to ASTM A123/A123M Coating Grade 35
4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.
5. Exterior Locations or in contact with Stainless Steel:
a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)
b. Nuts: Stainless steel; ASTM F594.
6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.
a. Type: Provide chemical or torque controled expansion anchors.
b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.
7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.
D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.
E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.

2.14 Finishes

A. Finishes, General: Comply with NAAMM AMP 500-06
1. Complete mechanical finishes befor fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.
2. Protect mechanical finishes on exposed surfaces from damage.
3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.
4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.
B. Galvanized Steel Finishes:
1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M
2. Color: As shown on the drawings.
3. Factory Prime: Apply shop primer to pepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1
4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

3.1 Examination:

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.
1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Installation:

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.

B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.

C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.

D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.

E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.

3.3 Adjusting, Cleaning, and Protection:

A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

SECTION 085619 - PASS-THRU WINDOW

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.
6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.
7. ASTM C1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
8. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.
10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.

B. Quality Assurance:
1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.
2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.

2.1 Materials:

A. Acceptable Manufacturers. Arch PM to verify required manufacturer per Tenant's assignment.
1. Quikserv; Toll Free: 1.800.388.8307; Email: sales@quikserv.com; Web: https://www.quikserv.com/
2. ReadyAccess; Toll Free: 1.800.621.5045; Email: ready@ready-access.com; Web: https://www.ready-access.com

B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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22111

Contents:

ARCHITECTURAL SPECIFICATIONS

G014.00

DOB NOW JOB #: B01050687-I1

2.2 In-Line Side Sliding Automatic Window and Air Curtain

A. Standard Custom Side Sliding Windows – Arch PM to verify manufacturer with Tenant.

• Quikserv Custom Automatic Side Sliding Window (Model: SST-4035E-CHIPOTLE): 45 -1/2"W x 41-3/4"H window with 17-3/4" tall transom and (2) sidelights at 29 1/4"W x 41-3/4"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 29-3/4"H
2. Finish: Dark Bronze Anodized
3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed and moving panel, sidelights and transom
4. 'CHIPOTLE' package includes pre-wired air curtain with relay to sync operation with window.
   a. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment. Air Curtain mounts to transom.
      i. Heated Air Curtain: Model: QSV1025EJ-040-BK
      ii. Ambient Air Curtain: Model: QSK1025AA-BK
5. Refer to interior elevations (A700s) for direction of opening for ordering.

• ReadyAccess Automatic Side Sliding Window: 47 -1/2"W x 43-1/2"H window with 16" tall transom and (2) sidelights at 28 1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 35"H
2. Finish: Dark Bronze Anodized
3. Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
4. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
   a. Heated Air Curtain: Model: AA300 (replaces transom)
   b. Ambient Air Curtain: Model: AA100 (split transom)
5. Refer to exterior elevations (A300s) for direction of opening for ordering.

B. Alternate California Code Option

1. ReadyAccess: Window 47-1/2" W x 35-3/4"H with double-split transom for air curtain and 10" and (2) sidelights at 28-1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
   a. Service Opening:15-1/4"W x 28"H, limited to meet CA code.
   b. Ambient Air Curtain, AA100, and relay switch kit included with the West Coast Window package.

2. Quikserv Model: SS-4035-E-CHIPOTLE-CALI, same as above except as noted.
   a. Service Opening: 28"W x 15-3/8"H, limited to meet CA code.
   b. 'CHIPOTLE' package includes pre-wired ambient air curtain with relay to sync operation with window Model: QSK1025AA-BK. Air curtain mounts to transom.

C. Alternate Impact-Resistant and Florida Product Approved Option, Miami Dade Horizontal Bi-Parting Impact Slider

1. Quikserv Model: BP-7241E-IP-CHIPOTLE, Complete Unit Size: 72"W x 41"H.
   a. Service Opening: 29-1/2"W x 27"H
   b. Rough Opening: 72-1/2"W x 41-1/2"H
   c. Glass: Impact Resistant Glass
   d. 'CHIPOTLE' package includes ambient air curtain
      i. Ambient Air Curtain: Model: QSK1025AA-BK, Part Number: 9345.
      ii. Do not mount directly to window, mount on wall above.
   e. Miami-Dade NOA #18-0814.02

2.3 Electrical Requirements

A. Quikserv Electrical Windows: 120V / 60 Hz, 20-amp branch circuit, single phase. Power supplied through base of window. Conforms to UL Standard 325 – Certified to CAN/CSA C22.2 NO. 247. Confirm with Electrical Drawings.

1. Heated Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE)
   a. Separate 230V circuit and Power Supply required for heated air curtain. Air curtain pre-wired through window frame with power supply routed to base of window. Confirm with Electrical Drawings.
2. Ambient Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE) and Alternate California Code Option: Model: SS-4035-E-CHIPOTLE-CALI
   a. Separate circuit not required. Window pre-wired to power and sync operation with air curtain.
3. Ambient Air Curtain for Alternate Impact-Resistant and Florida Product Approved Option (Model: BP-7241E-IP-CHIPOTLE):
   a. Connect to main control board on window to power and synchronize operation with opening and closing of window.

B. ReadyAccess Electrical Windows: 115V / 60 Hz, 15-amp dedicated circuit required. Run power to header on fixed panel side.

1. AA300 Heated Air Curtain
   a. Separate 208V /60 hz /40-amp single phase circuit required.
2. AA100 Ambient Air Curtain (Standard and CA window)
   a. Separate 120V / 60hz / 15-amp single phase circuit required. Run power to center of window above header.

3.1 Installation

A. Install in accordance with manufacturer's instructions.
B. Install pass-thru windows plumb, level, square, true to line, and without warp or rack. Maintain dimensional tolerances and alignment with adjacent Work.
C. Install thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
D. Install pass-thru window components weathertight.
E. Anchor pass-thru windows securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
F. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
G. Coordinate installation of related sheet metal flashing as specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
H. Install perimeter joint sealants as specified in Section 07 91 23 - Backer Rods.

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
2. ANSI/BHMA A156 Series Builders Hardware

B. Quality Assurance:
1. Codes and standards: Provide hardware complying with local Building Code requirements and the Tenant's standards for keying and security systems.
2. Project scheduling: Performed by an Architectural Hardware Consultant (AHC).
3. Package each item of hardware and each lockset, complete with all screws, anchors, installation instructions and templates. Identify package indexing with corresponding item number of the hardware schedule.
4. After hardware schedule acceptance, provide necessary templates or physical hardware to required trades for cutting, reinforcing, or preparing their products to receive hardware. Furnish templates to metal door manufacturer's.

2.1 Materials:

A. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

B. Review the keying system with the Tenant and provide the type required.

3.1 Installation

A. Install each hardware item in strict accordance with manufacturer's installation instructions and recommendations. Securely fasten all attached parts. Fit faces of mortised parts snug and flush. Verify operating parts move freely and smoothly without binding or sticking, without excessive clearance.

B. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as required for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

C. Mount hardware units at heights indicated in DHI "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGG guidelines for accessibility.
1. Top Butts: 5 inches; top of butt from head of frame.
2. Middle Butts: 3'-2", centerline from finish floor.
3. Bottom Butts: 5 inches; finish floor to bottom of butt.
4. Locks: centerline from finish floor per hardware schedule.
5. Knobs: 3'-2", centerline from finish floor.
6. Pulls: centerline from finish floor per hardware schedule.
7. Pushes: centerline from finish floor per hardware schedule.

SECTION 08800 - GLAZING

1.1 General: Provide glass and glazing as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. CPSC 16 CFR Part 1201 (1-91)"Safety Standard for Architectural Glazing Materials."
2. GANA "Glazing Manual - 1990."

B. Quality Assurance:
1. Codes and standards: Provide type of glass and glazing products that comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Comply with all applicable codes, standards and regulations that control safety glazing materials and installation.
2. System Performance: Provide glass and glazing that has been produced, fabricated and installed to withstand normal thermal movement, wind loading and, where applicable, impact loading, without failure including loss or breakage of glass, failure of glazing sealants or gaskets to remain watertight and airtight, deterioration of glass and glazing materials and other defects in the work.
3. Installation: Performed only by experienced glaziers.

C. Warranty:
1. Insulating glass: Five years from date of installation against defects that materially obstruct vision through the glass or affect thermal and physical integrity.

2.1 Materials:

A. Glass: 2
1. Match existing products, review with Owner's Architect.

B. Glazing Materials:
1. Glazing Sealants: Provide elastomeric glazing sealants suitable for applications indicated; compatible with one another and with other materials they will contact, complying with ASTM C920.
2. Glazing Tape: Provide preformed, non-staining and non-migrating elastomeric tape, as recommended by tape and glass manufacturers for application indicated, complying with ASTM C 1281.
3. Glazing gaskets: Provide manufacturer's standard snap-on aluminum stops and neoprene, vinyl or EPDM glazing gaskets.
4. Provide setting blocks, spacers and edge blocks of material, size, and shape complying with referenced glazing standard, and compatible with surfaces contacted in installation.

C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

A. Preparation:
1. Field verify measurements and conditions of installation.
2. Examine all details. Provide proper fitting to details indicated.
3. Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.

B. Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
1. Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).

C. Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.

D. Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattling or breakage.

E. Protect glass from breakage during remaining construction. Do not remove non-permanent labels until final acceptance.

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1.1 General: Provide gypsum board systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. GA 214-90 "Levels of Gypsum Board Finish."
2. GA-216 "Specifications for Application and Finishing of Gypsum Board."
3. USG "SA923 Drywall/Steel Framed Systems."

2.1 Materials:

A. Manufacturer: United States Gypsum Co. (USG), (800) 874-4968, internet www.usg.com.

B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.
1. Partition metal framing:
   a. Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
   b. Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.

C. Ceiling and Soffit metal framing/suspension systems:
1. Small areas: Metal stud framing of appropriate size and gage for spans indicated.
2. Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
3. Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.

D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
1. General use panels: Sheetrock Regular panels.
2. Fire rated panels: Sheetrock Firecode Core panels.
3. Water-resistant: panels: Sheetrock HUMITEK panels.

E. Cement board: USG DUROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.

F. Fasteners: USG Type "S" bugle head screws for metal framing, USG Type "W" bugle head screws for wood framing, manufacturer's recommended length for panel thickness indicated.

G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 200B casing bead metal trim, No. 093 Control Joint.

H. Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.

I. Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.

J. Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.

K. Sound attenuation insulation: USG Thermafiber unfaced 3-1/2" thick, mineral fiber insulating batts/blankets; standard lengths and widths required to coordinate with spaces insulated.

3.1 Installation

A. Install metal wall and partition framing and ceiling suspension/ support systems in accordance with USG Bulletin SA 923 and complying with ASTM C754.
1. Ceiling suspension/ support systems: Metal furring system/direct suspension or steel stud framing system.
2. Wall and partition framing:
   a. Install steel studs per schedule or at spacing indicated with bottom and top runner tracks anchored to substrates. Provide flexible ceiling runner tracks at full height partitions.
   b. Terminate partition stud system 4" above ceilings, except where indicated to be extended to structural support or roof deck above. Brace tops of partition framing to structure or roof deck at maximum 4'-0" on center spacing.
   c. Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
   d. Coordinate the installation of supplementary blocking and nailers, provided under Section 06100 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.

B. Application and Finishing: Install and finish gypsum board to comply with ASTM C 840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
1. Screw fasten all gypsum board panels.
2. Metal Trim: Install metal corner beads at external corners of gypsum board work and metal trim wherever edge of gypsum board would be exposed. Use longest practical lengths.
3. Control Joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.

C. Acoustical Treatment:
1. Where sound-attenuation insulation is indicated, seal gypsum board construction at perimeters, control joints, junction boxes, openings and penetrations with a continuous bead of acoustical sealant including a bead at both faces of partitions.
2. Install sound attenuation insulation at scheduled partitions and ceilings. Install insulation in single layer of required thickness. Extend full thickness over entire area to be insulated. Cut and fit tight around obstructions. Fill all voids.
3. At openings and cutouts, fill open spaces between edges of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.
4. Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.

D. Finishing:
1. Comply with manufacturer's instructions for mixing, handling, and application of materials. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board (electrical boxes, piping, and similar work), fastener heads, surface defects, and elsewhere as indicated. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.
2. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
3. Interior Exposed Gypsum Board Finish: Level 5 Finish.
   a. Locations: Typical for all walls and ceilings, unless otherwise indicated
   b. Finish interior gypsum board by applying the following joint compounds in four coats (not including prefill of openings in base), and sand between coats and after last coat:
   c. Embedding and First Coat: Setting-type joint or taping compound.
   d. Fill (Second) Coat: Setting-type topping compound.
   e. Fill (Third) Coat: Setting-type topping compound.
   f. Finish (Fourth) Coat: Skim coat entire surface.
4. Interior Concealed Gypsum Board: Level 3 Partial Finishing.
   a. Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.

E. Cement Board: Install cement board as a 16" high base at all kitchen and kitchen cook line wall types as indicated on drawings.

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

1.1 General: Provide Fiberglass-mat faced, moisture resistant gypsum backer board as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
2. ASTM C1002 Standard Specification for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
3. ASTM C1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel
4. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
5. ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
6. ASTM E96 Standard Test Methods for Water Vapor Transmision of Materials
7. Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current Edition.

2.1 Materials:

A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgp.com

B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
1. General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufactuer's recommendations:
1. Walls (Steel Frame): Bungle head, fine thread, sharp point rust resistant drywall screw
2. Walls (Walls Frame): Bungle head, coarse thread, sharp point rust resistant screw

D. Metal Framing, Trim, joint treatment, adhesives, acoustical sealant, and sound attenuation insulation: Refer to Section 09260 Gypsum Board Systems

3.1 Installation

A. Install DenShield at all tile walls excluding hood area as indicated on drawings.

B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
1. Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific Gypsum.
   a. Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
   b. DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
   c. For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
   d. Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
   e. In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
   f. Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
   g. Do not use all purpose joint compound or tape in wet areas.
   h. Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
   i. DensShield Tile Backer should not be used for exterior installations.
   j. DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
   k. DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.

C. Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

SECTION 09330 - QUARRY TILE

1.1 General: Provide quarry tile flooring and base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ANSI A137.1 "Ceramic Tile."
2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
1. Quarry Tile: Daltile, (877) 556-5728, internet: http://daltile.com
   a. For ordering purposes, email all orders to chipotle@daltile.com
2. Waterproofing, Setting and Grouting Materials:
   a. Setting and Grouting Materials and Tile Base Membrane: Mapei
      i. For ordering purposes, email all orders to chipotle@daltile.com
      ii. For technical questions, contact Mapei, (800) 992-6273, internet: www.mapei.com

B. Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" 0T03
1. Entire Kitchen Area: Provide non-abrasive finish quarry tile.
2. Rest Rooms: Provide non-abrasive finish quarry tile.
3. Outside Corner Cove Base (Kitchen): #QC-(L or R)-3565 5" x 6"
4. Inside Corner Cove Base: #QB-3565 1" x 5"
5. Bullnose Coveless Base: #Q-1665, 6" x 6"
6. Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6"

C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane
D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
E. Grout: Mapei, Kerapoxy IEG CQ, Color: #9, "Gray", 1/4" grout joints.
F. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

A. Preparation: Clean substrate surfaces, scheduled to receive quarry tile, thoroughly and remove all coatings that may impair bond.
1. Center tile fields both directions in each floor area. Adjust layout to minimize tile cutting. Avoid tile less than one-half size. Locate cuts to be least conspicuous.
2. Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.

B. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive quarry tile floor finish. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
1. Extend waterproofing up vertical wall surfaces minimum 10" high.
2. Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.

C. Wet Areas: Install waterproofing membrane at all quarry tile wall base. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
1. Extend waterproofing up all vertical wall surfaces receiving quarry tile base minimum 10" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces receiving quarry tile base.

D. Installation: Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
1. Floors: Latex-portland cement mortar on concrete; TCA detail F113 and ANSI A108.5, grout ANSI A108.10.
2. Base: Latex-portland cement mortar on cement board.

SECTION 09340 - CERAMIC TILE

1.1 General: Provide ceramic wall tile as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ANSI A137.1 "Ceramic Tile."
2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
1. Ceramic Tile and Accent Tile: Daltile, P: (877) 556-5728, internet: http://daltile.com
   a. For ordering purposes, email all orders to chipotle@daltile.com

B. Ceramic Tile: Series - Color Wheel Glazed Ceramic:
1. Kitchen Tile or as noted in plans
   a. Color - Arctic White 0190, Semi-Gloss, Size - 4 x 16, Pattern - Stacked Bond
2. Accent Tile
   a. Color - Chipotle Brick Metallic 1.0 #9999710686, Size - 3 x 12, Pattern - Stacked Bond
   b. Alternate Accent Tile only when approved by Arch PM and Chipotle DM
      i. Series - Remedy, Color - Alchemy RD25, Size - 2 x 9, Pattern - Stacked Bond
      ii. Series - Marrazzi, Color - Artesen AT25, Size - 2 x 4, Pattern - Brickjoint Mosaic

C. Setting Adhesive: Thinset Mortar, Mapei, Ultraflex LFT - Gray

D. Grout:
1. Kitchen Tile or as noted in plans
   a. Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
2. Accent Tile
   a. Mapei, Series - Flexcolor CQ - Truffle #115, 1/8" grout joints.

3.1 Installation

A. Preparation: Clean substrate surfaces scheduled to receive ceramic tile thoroughly and remove all coatings that may impair bond.
1. Protect surrounding work from damage.
2. Remove any curing compounds or other contaminates.
3. Vacuum clean surfaces and damp clean.
4. Install cementitious backer board or glass-mat faced gypsum backing board as indicated in drawings in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.
5. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

B. Kitchen:
1. Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
2. Lay tile in horizontal stack bond, following detail drawings for layout considerations. Horizontal rows of tile shall be full-height courses, unless noted otherwise.
3. Arrange pattern so that a full tile or joint is centered on each wall horizontally and that no tile less than 1/2 width is used at the ends of the wall. Exception: when one end of the wall is a tile-to-gypsum board transition. Do not interrupt tile pattern through openings.
4. Use specified stainless steel corner guards at tile-to-tile and tile-to-FRP outside corners.
5. Use corner bead of 100% silicone sealant, color to match grout, at inside corners where tile meets tile.
6. Use corner bead of 100% silicone sealant, white, at inside corners where tile meets paint gyp. board, tile meets FRP or tile meets aluminum.
7. Cut and fit tile to penetrations through tile, leaving sealant joint space. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, escess mortar, or excess grout.
8. Sound tile after setting. Replace hollow sounding units.
9. Keep expansion joints free of adhesive or grout. Allow tile to set for a minimum of 48 hours prior to grouting. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes. Refer to section 07900 Joint Sealers.
10. Clean tile and grout surfaces.

Consultant:

HBC

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Contents:

ARCHITECTURAL SPECIFICATIONS

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DOB NOW JOB #: B01050687-I1

SECTION 09510 - SUSPENDED CEILING SYSTEMS

1.1 General: Provide acoustical ceiling systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. CISCA "Acoustical Ceilings - Use and Practice."
2. ASTM C635.
3. ASTM C636.

B. Related Sections:
1. 09515 Cementitious Wood Fiber Acoustical Panels: Suspension system.

2.1 Materials:

A. Manufacturer:
1. USG Interiors, Inc., (800) 950-3839, www.usg.com
2. Pittcon Industries, (800) 637-7638, www.pittconindustries.com

B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".

C. Light Pocket: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
1. Light pocket can have up to 6 week lead time and should be ordered as soon as possible.
2. Light pocket endcap should only be installed when the end of the cove is not against a wall.

D. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories.
1. Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching exposed grid.
2. Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees.
3. Hanger Wire: No. 12 SWG galvanized steel wire.
4. Heavy Duty "Tee" Grid System for use with Felt Baffle Ceiling System: USG Donn Brand DX/DXL with 15/16" wide face tees, color: black

3.1 Installation

A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.

B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".

C. Install exposed Tee suspension systems with main tees nominally 12 ft long spaced 48 in O.C. and cross tees nominally 4 feet long spaced 24 in O.C.

D. Install concealed Tee suspension systems with main tees nominally 12 ft long spaced 24 inches O.C. and cross tees nominally 2 ft long spaced 48 in O.C.

E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.

F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.

G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

SECTION 09653 - RUBBER WALL BASE

1.1 General: Provide resilient rubber wall base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM D 2240 Rubber - 85 Shore A

2.1 Materials:

A. Manufacturer: Johnsonite, Inc., (800) 899-8916, internet: www.johnsonite.com
1. Basis-of-Design Product Rubber Wall Base:
a. Resilient Rubber:
1. .125" (3.17 mm) Thickness
2. "Black" color
3. Straight (toeless) or coved as specified on finish plan
4. Inside and outside corners with 4" returns.

B. Alternate Wall Base only when approved by Arch PM and Chipotle DM.
1. Vinyl Wall Base
a. .125" (3.17 mm) Thickness
b. "Black" color
c. Straight (toeless) or coved as specified on finish plan
d. Inside and outside corners with 4" returns.

C. Setting Adhesive
1. For porous surface applications: Johnsonite 960 Acrylic Cove Base Adhesive
2. For non-porous surface applications: Johnsonite 946 Contact Bond Adhesive or polymer based alternative

3.1 Installation:

A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.

B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in accordance with manufacturer's instructions.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

1.1 General: Provide Stonewood solid phenolic panels and accessories for interior walls and millwork as shown and specified.

1.2 Related Sections:

A. Section 05400 - Cold Formed Metal Framing

B. Section 06210 - Finish Carpentry and Millwork

C. Section 07900 - Joint Sealers

D. Section 09260 - Gypsum Board Systems

1.3 Standards: Materials and construction shall conform to the following:

A. ASTM D638 - 10 Standard Test Method for Tensile Properties of Plastics.

B. ASTM D790 - 10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

C. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.

D. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 Design/Performance Requirements:

A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.

B. Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

1.5 Quality Assurance:

A. Manufacturer's Qualifications:
1. Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
2. Minimum of 40 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.

B. Fabricator:
1. Fabricated by the manufacturer, and/or;
2. Contracted by the customer, minimum 5 years' experience in fabrication work for the size and complexity of the projects.

C. Installer
1. Proven professional installer with a minimum of 5 years of documented experience.
2. Approved by the manufacturer.

1.6 Delivery, Storage and Handling:

A. Refer to Section 01400 Quality Requirements.

B. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture and weight.

C. Storage:
1. Keep panels dry and stored indoors in original packaging until installation.
2. Store Stonewood panels on a smooth, dry, flat surface, making sure there are no bends or bowing in the load.
3. Do not store directly on cold concrete floors as moisture may migrate.
4. Do not store under heating units or air conditioning units.
5. Keep load stored within outer wrap until use. Remove pallet straps once load is moved to storage area.
6. Reseal plastic wrap if partial load is used.
7. Keep foam dividers in place.

D. Handling:
1. Handle materials in accordance with manufacturer's instructions.
2. Protect materials during handling to prevent damage.
3. When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. PLEASE TAKE CARE NOT TO SCRATCH THE SURFACE OF THE PANEL DURING HANDLING, MACHINING AND INSTALLATION.

1.7 Warranty:

A. Limited Warranty: Fibbers warrants Stonewood for a period of 10 years. Refer to www.stonewoodpanels.com for details.

1.8 Project Conditions:

A. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working conditions for finish work.

B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

C. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.

2.1 Manufacturer:

A. Fiberesin Industries, Inc. PO Box 808, Oconomowoc, WI 53066. Phone: (262) 567-4427, Fax: (262) 567-4814, Web Site: www.stonewoodpanels.com Email: info@fiberesin.com

B. Made in the United States from materials sourced in the USA.

2.2 Application:

A. Apply Solid Phenolic Laminate Wall Panels at walls and other surfaces as indicated on the Drawings. Phenolic Wall Panels are architectural wall panels applied over a sheathed stud wall or other solid blocking per Drawings.

2.3 Interior Stonewood:

A. Material: Solid phenolic laminate panel w/o overlay.
B. Color: Black ND
C. Finish: Matte
D. Standard Size: 48"x96", fabricator to trim height to 47"
E. Panel Thickness: 5/16", 1/2"
F. Panel Core: HR Black

2.4 Minimum Material Properties

A. NEMA Requirements:

Description	NEMA Requirements	
Dimensional Change:	3.11	
Length (Machine Direction)	0.3% Maximum	0.25%
Width (Cross Direction)	0.7% Maximum	0.50%
Density (PCF)	82	

B. Mechanical Properties:

Property	NEMA Requirements	
Flexural Strength ASTM D-790		
MD (psi)	18,000	20,000
CD (psi)	12,000	16,000
Flexural Modulus ASTM D-790		
MD (psi)	1.6x10^6	2.0 x10^6
CD (psi)	1.4x10^6	1.5x10^6
Tensile Modulus ASTM D-638		
MD (psi)	18,000	18,000
CD (psi)	12,000	13,000

C. Fire Resistance:

	Class A (0.250")	Class B (0.250")
Flame Spread Index - ASTM E-84 (BLDG):	5	30
Smoke Developed Values - ASTM E-84 (BLDG):	5	105
Fire Rating (Standard Product is Class B):	A	B

D. Manufacturing Tolerance:

Thickness (.156 to .375)	+/- .020
Thickness (above .375 to 1.000)	+/- .030
CNC Shaped Size (Length - Width)	+/- .020
Drill Diameter	+/- .003
Drill Depth	+/- .020
CNC Hole to Hole	+/- .020
CNC Hole to Edge (1 Oper)	+/- .020
CNC Hole to Edge (2 Oper)	+/- .030
Routing - (Slots Width and Length)	+/- .015
Routing - (Slots Depth)	+/- .020

2.5 Accessories (Fasteners):

A. Panel Fasteners: #10 x 1-1/4" flat phillips head black oxide wood screws to be used with wood blocking and #10 x 1-1/4" flat phillips head black oxide sheet metal screws to be used with sheet metal blocking as recommended by the manufacturer.
B. Provide exposed fasteners with heads matching color of composite wall panels by means of factory-applied coating.
C. Fasteners shall by designed to withstand effects of dead load and accommodate hydrothermal expansion/contraction of panel.
D. Wall Panel Accessories: Provide components required for a complete composite wall panel assembly including trim, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of composite wall panels unless otherwise indicated.

3.1 Manufacturer's Execution Instructions:

A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.

3.2 Examination:

A. Verify correct panels received including dimension, tolerance, color/texture.
B. Verify correct attachment system received for the specific project/job.
C. Verify all the documents including shop drawing and installation guidelines.
D. Verify installation conditions are satisfactory to receive work of this section before the commencement
E. Verify substrate installation is complete, flat, and true to plane.
F. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 Preparation:

A. Field Measurements: Verify prior to fabrication and installation of the cladding panel.
B. Protect surrounding areas and surfaces to preclude damage during work of this section.
C. Lay out work before beginning installation as necessary for true, plumb and aligned panel installations.
D. Verify locations of joints and panel lengths.

3.4 Installation:

A. Conform to manufacturer's instructions and provisions of shop drawings.
B. Install to allow hydro-thermal expansion/contraction.
C. Use appropriate techniques/tools to work with the panel.
D. Do not force to fit, do not bend, stretch/compress.
E. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean filings from adjacent surfaces.
F. Do not install damaged or questionable panels.
G. Install solid phenolic wall panels plumb and level and accurately spaced.
H. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.
I. Shim or otherwise plumb substrates receiving composite wall panels.
J. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical fasteners only.

3.5 Erection Tolerances:

A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.

3.6 Field Quality Control:

A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's /supplier's instructions and installation manual, shop drawings etc.

3.7 Adjusting:

A. Correct identified defects and irregularities.
B. Replace damaged soiled, and discolored work.

3.8 Cleaning:

A. Leave installation clean and free from residue and debris from work of this Section.
B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.

SECTION 09900 - PAINTS AND COATINGS

1.1 General: Provide paints and coatings as shown and specified.

A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items.

B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.3 Summary:

A. This section includes surface preparation and field painting of the following:
1. Exposed exterior items and surfaces.
2. Exposed interior items and surfaces.
3. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.

1.4 Quality Assurance:

A. Applicator Qualifications: Engage an experienced applicator that has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.

B. Source Limitations: Obtain block fillers, primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

C. Provide lead free prime and finish coatings. All top coatings shall be mold and mildew resistant.

1.5 Delivery, Storage and Handling:

A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
1. Product name or tile of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.

1.6 Project Conditions

A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin.

B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C).

C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or to damp or wet surfaces.
1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

2.1 Manufacturers:

A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.

B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below:
1. PPG Industries, Inc.
2. Materials - No substitutions allowed.

2.2 Paint Materials, General

A. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

B. Material Quality: Provide manufacturer's best-quality "professional" paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

Colors: Color guided selected by owner and will be strictly adhered too, unless otherwise noted.

C. Exterior Coatings:

Exterior Ferrous Metals:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from steel surface. Uniformly roughen surface with 150-grit paper. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional or HVLP (high volume low pressure)

Exterior and Interior Gas Piping:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from pipe surface. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) Coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) Coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils
Application: Conventional or HVLP (high volume low pressure)

Exterior Patio Railing:

Preparation: Remove all visible oil, grease, soil, loose paint, rust and all other soluble contaminates from steel surface. Remove all dust before solvent cleaning SSPC-SP1 by the use of stiff bristle brush. SSPC-SP3 may be required as a more aggressive preparation to remove loose mill scale, loose rust, loose paint and other loose detrimental foreign matter from the surface. Performance is better with more aggressive preparation.
Prime: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Prefinished Metal Wall Panels:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-603XI Alkali Resistant Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat XIM Primer Bond - Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Finish: (2) coats PPG; 90-1110 Series Pitt-Tech Satin DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Galvanized Metal:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-503 Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat PPG; 6-209 SpeedHide Galvanized Metal Primer (400 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Consultant:

HBC
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04/23/2024	LLD REVIEW SET
08/20/2024	PERMIT SET
05/02/2024	BID SET
10/23/2024	CONSTRUCTION SET

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Drawn: M.T.W.
Checked: J.C.C.

Project No.: 22111

Contents:

ARCHITECTURAL SPECIFICATIONS

G016.00

DOB NOW JOB #: B01050687-I1

Exterior CMU Primer:

CMU Preparation: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, re-seal and re-check adhesion.

Field Preparation: Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding.

3 Prime: (2) Coats ; Interior/Exterior Masonry to match existing, review with Owner's Architect.

Application: Finish to match existing application.

Exterior Stucco/EIFS Surfaces (including wet areas):

3 Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat ; Match existing, review with Owner's Architec.
Finish: (2) coats ; Match existing, review with Owner's Architec.

Application: Finnish to match existing application.

Exterior Wood:

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 17-921 Seal Grip Primer Sealer (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 70-501 Manor Hall Exterior Semi-Gloss or PPG Acri-Shield Semi-Gloss PP649 (50 g/L VOC): Applied at a dry film thickness of not less than 1.5 to 3.0 mils.
Application: Brush, Roll or Spray

D. Interior Coatings:

Interior Metals: (Doors, door frames, where indicated)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Repaints only require spot prime on bare metal surfaces.)
Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Metals: (Metal Deck if indicated on Finish Plan)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and allow to dry before priming.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Primer only required on unpainted decking or to spot prime bare areas in decking.)
Finish: (2) coats PPG; 90-1110 Pitt-Tech Plus Satin Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Gyp. Bd.:
Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions. Fill hairline cracks, holes and other defects with filler compatible with finish coats. Sand smooth all areas filled and/or areas to make a smooth overall finish.
Prime: (1) coat PPG; 9-900 Pure Performance Acrylic Primer (0 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils. (Spot prime required only on repaint projects.)
Finish: (2) coats PPG; Pure Performance Zero VOC Eggshell 9-500 Series, sheen as shown on finish plan: Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Wood Trim and Plywood - Clear Polyurethane Finish:
(Plywood finishes shall be shop applied in a controlled environment)

Shop Preparation: Scuff sand between coats.

Shop Finish: (2) coat, ML Campbell Krystal conversion varnish, Clear Dull Sheen
Application: Spray

Field Preparation: All cuts in field are to be sanded smooth. Scuff sand between coats.

Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen
Application: Wipe on with t-shirt rag.

Exterior Traffic Safety Marking.:
Preparation: All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion.

For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.

Owner Option 1:
Finish: (1) coat PPG; A-2886B Type II, White Zone Marking - Applied at a dry film thickness of not less than 8.6 mils.

Owner Option 2:
Finish: (1) coat PPG; A-2886B Type II, Yellow Zone Marking - Applied at a dry film thickness of not less than 8.6 mils

Application: Applying a test strip to determine dry to no- pickup time when the humidity is higher than 65%. Cone whenever necessary.
- Do not heat paint in striping system above 60 C.
- Do not apply when temperatures are below 3 C.
- Do not apply when rain is forecast.
- Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.
- Do not thin more than 5% with acetone and then use immediately.
- Do not apply if temperature is expected to fall below freezing for 6 hours after application of paint.

Application Equipment: Apply with a high quality brush, roller, or by airless spray equipment.

Airless Spray: Pressure 2000 psi, tip 0.015" - 0.021"Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coating s into the skin by airless equipment may cause serious injury.
Brush: Polyester/Nylon Brush
Roller: All-purpose nap roller cover.

E. Color Guide: Refer to Finish Plan and drawings for exact location of all colors.

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior (Roof Mounted) Gas Piping	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Yellow	Semi-Gloss	N/A
Exterior and Interior Gas Piping, Where Exposed	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Match surrounding finishes/verify with architect	Semi-Gloss	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A
Interior Doors, Door Frames, Rails and Rail Frames, Where Specified	PPG Breakthrough 50 Acrylic Satin	PPG V51-90 Black	Satin	D1
Interior Ferrous Metals, Where Specified	PPG Breakthrough 250 Acrylic Eggshell V50-410 Series	PPG 1013-5 "Victorian Pewter"	Eggshell	N/A
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Semi-Gloss	P4
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Eggshell	P3
Dining Room and Hallway Gyp. Bd. Ceiling	PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-411OXI Flat	PPG 1041-1 "Moonlit Snow"	Flat	C3
Restroom, Cooking, Kitchen and Serving Area Soffit Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-500 Series	PPG 1041-1 "Moonlit Snow"	Eggshell	C3
Interior Metal Roof Deck and Metal Columns	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1013-5 "Victorian Pewter"	Satin	C1
Patio Railing	Durethane DTM Urethane 95-3300 Series	PPG 1001-6 "Knight's Armor"	Gloss	N/A

3.1 Installation:

A. Examination:
1. Verify that site environmental conditions are appropriate for application of coatings specified.
2. Immediately prior to coating application, ensure that surfaces to receive coatings are dry.
3. Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer.
4. Immediately prior to coating application, examine surfaces to receive coatings for surface imperfections and for contaminants which could impair performance or appearance of coatings, including but not limited to, loose primer, rust, scale, oil, grease, mildew, algae, or fungus, stains or marks, cracks, indentations, or abrasions.
5. Correct the above conditions and any other conditions which could impair performance or appearance of coatings in accordance with specified surface preparation procedures before proceeding with coating application.

B. Preparation:
1. Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance.
2. Stains and Marks: Remove completely, if possible, using materials and methods recommended by coating manufacturer; seal with shellac or other coating acceptable to paint manufacturer stains and marks that might bleed through paint finishes which cannot be completely removed.
3. Remove or protect hardware, electrical plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings which are adjacent to surfaces to receive coatings.
4. Remove mildew from impervious surfaces by scrubbing with solution of disodium phosphate and bleach. Rinse with clean water and allow substrate to thoroughly dry.
5. For specific substrate preparation, see individual specifications.
6. Provide necessary staging, ladders, shield, protective coverings and drop cloths. Protect floors, walls and adjacent work and materials. Remove and properly replace temporary protection and coverings removed from any part of the work or finish. Repair damage at Contractor's expense.

C. Application:
1. General: Mix, prepare and apply paint according to manufacturer's written instructions.
   a. Use applicators and techniques best suited for substrate and type of material being applied.
   b. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
   c. Coating surface treatments, and finishes are indicated in the coating system descriptions.
   d. Provide finish coats compatible with primers used.
   e. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
2. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
   a. The number of coats and film thickness required is the same regardless of application method.
   b. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements as directed by Tenant. Paints and coatings work is subject to acceptance by the Tenant.
   c. Keep brushes and rollers clean, free from contamination and suitable for the finish required.
   d. Unless otherwise indicated, allow exterior paints to dry for 48 hours and interior paints to dry for 24 hours between coats.
   e. Sand lightly and remove dust between coats to achieve required finish.
   f. Finished surfaces shall be uniform in finish and color and free of brush marks, sagging, holidays, corduroy and other imperfections. Coverage and hide shall be complete.
   g. Edges of paint or finish adjoining other materials or colors shall be sharp and clean without overlapping. Cut paint in neatly around glass or other edges.
   h. Paints and coatings work is subject to acceptance by the Tenant. Correct unsatisfactory work not complying with these specifications as directed by the Tenant.

D. Cleaning:
1. After completing painting, clean glass and paint spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

E. Protection:
1. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect / Tenant.

2. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.

3. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces.

F. Maintenance: Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the Tenant.
1. Provide one gallon of paint and wood stain of each type and color required for maintenance purposes. Provide original, unopened, labeled containers with color samples and a list of project use.

DIVISION 10 - SPECIALTIES

SECTION 10522 - PORTABLE FIRE EXTINGUISHES

1.1 General: Provide portable fire extinguishers as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. NFPA 10 "Standard for Portable Fire Extinguishers.

2.1 Materials:

A. Provide minimum 10 lb. capacity fire extinguishers in quantity and type complying with local code and fire regulations requirements.
1. Provide new fire extinguishers fully loaded, tested, UL and FM labeled and listed and ready for use.
2. Provide manufacturer's recommended mounting brackets and hardware.

3.1 Installation:

A. Install fire extinguishers in accordance with manufacturer's installation instructions, at heights and locations acceptable to the local fire regulations enforcement authority

3

SECTION 10700 - EXTRUDED ALUMINUM CANOPY

NOT USED

1.1 General: Provide canopies as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. AWS, D1.1 - Structural Welding Code - Steel
2. AMMA, Aluminum Finishes AAMA 2604 (FGIA 2604) - Powder Coat

B. Quality Assurance
1. Shop Drawings: To be created under the guidance of a professional engineer. Site Specific stamped drawing may be required by the manufacturer based on location. Drawings must indicate size, material and finish. Include plan, elevations and sections to clearly outline the canopy locations. Include installation procedures, details of joints, attachments and clearances.
   a. Submit within 15 days after contract award.
2. Color charts showing manufacturer's full range of colors from standard line including Chipotle's custom "charcoal" color match to prototypical window mullion system.

2.1 Manufacturers:

A. Architectural Fabrication, Inc. -- Manufacturer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. P: (800) 962-8027. E: chipotle@arch-fab.com, W: www.arch-fab.com
B. Substitutions are acceptable assuming they comply with this specification, are submitted based on Quality Assurance and Division1 - Section 01100 requirements and have minimum 10 years experience, and only when approved by Arch PM and Chipotle DM.
1. Awnex, Contact: Katie Dicks, P: 770-704-7140 x151, E: katie@awnexinc.com
2. Uni-Structures, Contact: Dana Fredericks, P: 678-974-1773
3. API, Contact: Jade Moore-Esposito, P: 813-925-0144, E: jesposito@americanproducts.com

2.2 Materials:

A. Specifications are based on Architectural Fabrication, Inc. - Helios Canopy Patent #9,976,310
1. Framing: Gutter fascia, tube, angles: 6063-T6 alloy extruded aluminum. Gutter to be notched in the back to allow steel support arms to pass through.
2. Decking: Extruded aluminum 8" wide deck pan in 6063-T6 or 6063-T5 alloy (Roll form is not acceptable)
3. Steel Support Arms: 3" x 3" x .250" Steel tube support arms w/ 8" w x 5"h x 1/2" thick steel plate welded to the back. Must manufacture steel arm in manner to leave room for LED enclosure at back of canopy.
4. Hardware and Fasteners: Nuts, bolts, washers, clevis pins, screws, anchors and pipe spacers to be zinc plated or galvanized steel required to suit application and per pre-engineered canopy load requirements. Typical wall anchors are minimum ½" diameter. Touch up paint must be provided for each canopy to allow for potential repairs in the field.
5. Flashing: Shall be minimum 0.040-inch aluminum, fabricated to prevent leakage and sealed with Novaflex metal roof sealant in custom color match. Another equivalent sealant is acceptable.
6. LED Enclosure: Each canopy is to have a preformed aluminum LED enclosure along the back edge of the canopy finished in the same powder coat as the canopy. 1" nominal inside width, and a minimum aluminum sheet thickness of .063".
7. Scuppers: Drainage for canopy is (2) aluminum scuppers located at the front of the canopy per drawings. See finish below for details.
8. Finish: All aluminum shall be powder coat finish per FGIA 2604 (aka AAMA 2604). Steel shall be commercially blasted, then coated with a zinc rich primer, and finally the top coat of super polyester powder (2604 compliant) applied.

3.1 Installation:

1. Install canopies per manufacturer's written instructions and videos, and as indicated on architectural drawings
2. Locate and place canopies level, plumb and at indicated alignment with adjacent work.
3. Use concealed anchors where possible.
4. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.
5. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a coating of bituminous paint or elastomeric coating on surfaces that will be in contact with concrete, masonry or dissimilar metals.

DIVISION 11- NOT APPLICABLE

DIVISION 12- FURNISHINGS

SECTION 12495 - WINDOW SHADES

1.1 General: Provide window shades as shown and specified.

A. Standards: Shade fabric material shall meet the requirements of the following:
1. NFPA 701 Flame Test and California US Title 19 for flame retardant materials.

B. Field measure window openings and verify installation conditions prior to window shade fabrication

C. Warranty:
1. 5 years against defects in materials and workmanship.
2. 1 year for service call repairs and adjustments.

2.1 Materials:

A. Manufacturer: Insolroll Window Shading Systems, Inc. (800) 447-5534, internet www.insolroll.com

B. Window Shades: Insolroll 2000 Solar Screen Shades, manual operation.
1. Solar Screen Shade Fabric: Insolroll woven fiberglass yarn, 5% openness, Charcoal/Bronze color.
2. Provide manufacturer's recommended mounting brackets and hardware.

C. Fabrication: Unless otherwise indicated, fabricate window shade units to completely fill existing window openings from jamb to jamb and from head to 42" AFF or the nearest horizontal mullion from 40"-44" AFF.
1. Adjustment system controlled by plastic bead chain on polyester cord. Multi-banded steel spring clutches keep shade in desired position.
2. Roller tube 2" extruded aluminum, sized to minimize deflection.
3. Fabric attached to roller tube using two-sided adhesive tape.
4. Fabric bottom hem RF heat sealed pocket with enclosed hem bar.

3.1 Installation:

A. Install window shades level and plumb in accordance with manufacturer's installation instructions and drawing details. Provide units securely anchored in place with recommended hardware and accessories to provide smooth operation without binding.

DIVISIONS 13 - 14 - NOT APPLICABLE

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
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fax: 212 - 647 - 0022

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STORE NO.: 31-4872
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1510 BROADWAY
BROOKLYN, NY 11221

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Revisions:

3 08/08/2024	PER LLD COMMENTS

Drawn: M.T.W. Checked: J.C.C.

Project No. 22111

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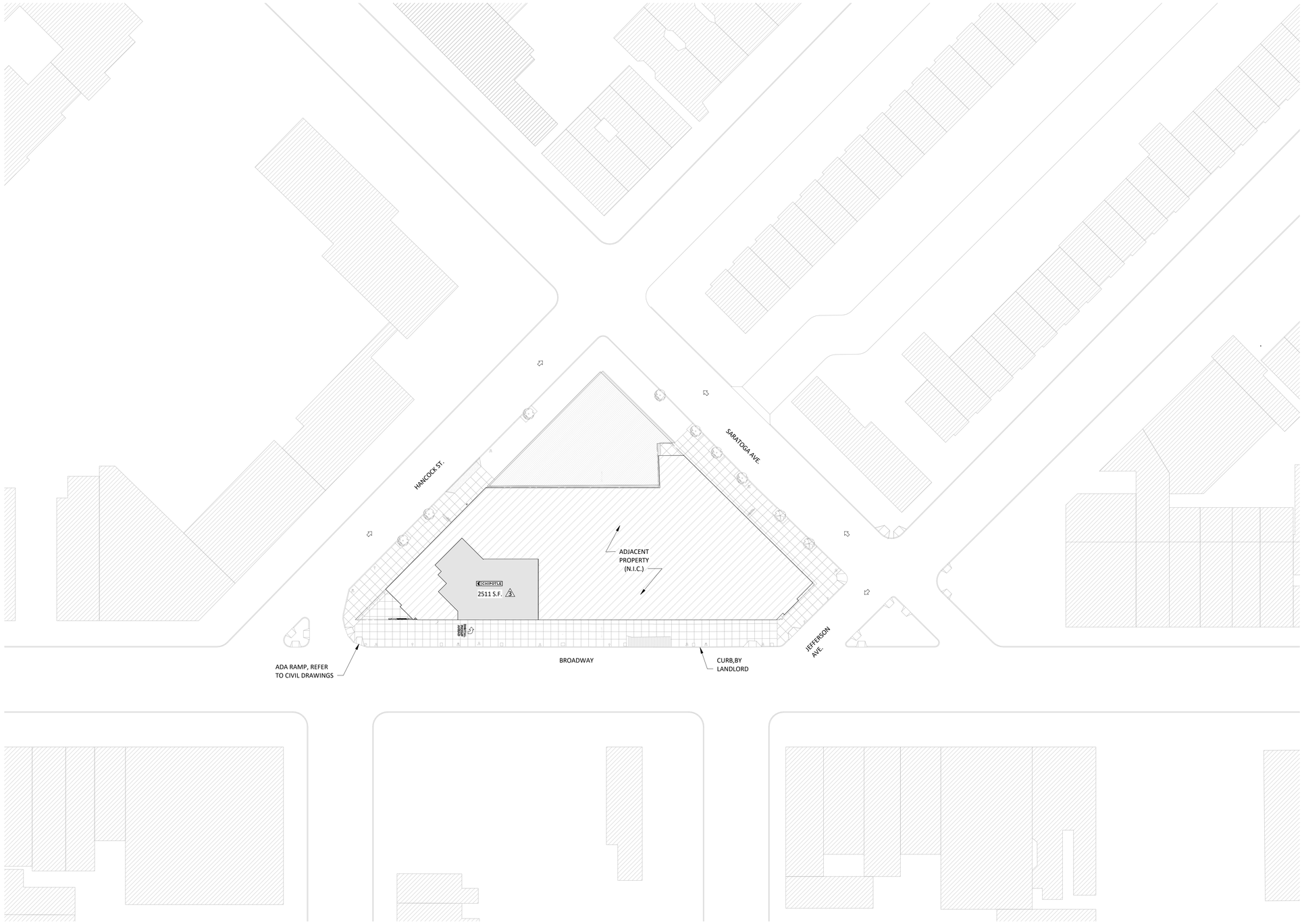
ARCHITECTURAL SPECIFICATIONS

G017.00

DOB NOW JOB #: B01050687-I1

GENERAL NOTES

1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. GC TO BUILD FROM CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN ARCHITECTURE AND CIVIL, CONTACT ARCHITECT IMMEDIATELY.
3. ALL SITE WORK INCLUDING PAVING, CURBING, PARKING, PARKING LOT LIGHTING, SIDEWALKS, LANDSCAPING AND DUMPSTER ENCLOSURE ARE EXISTING U.N.O.



1 ST100 **ARCHITECTURAL SITE PLAN**

1/32" = 1'-0"

Consultant:

HBC

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ARCHITECTURAL SITE PLAN

ST100.00

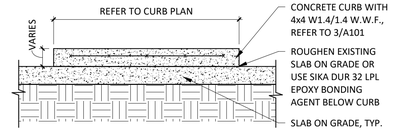
DOB NOW JOB #: B01050687-I1

PLUMBING LEGEND

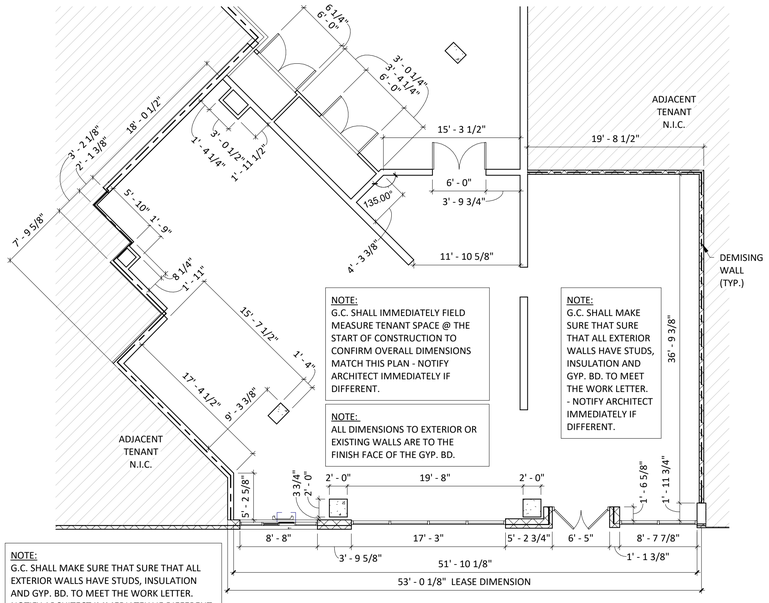
	FLOOR SINK
	FLOOR DRAIN
	TRENCH DRAIN

GENERAL NOTES

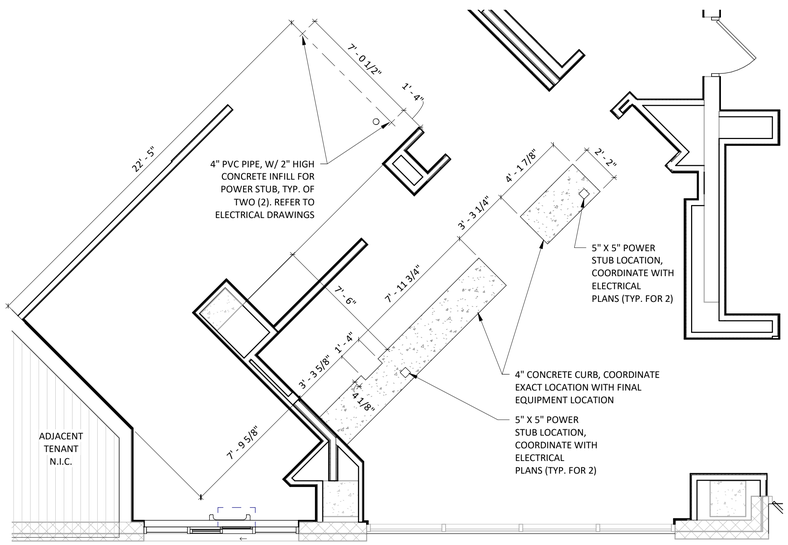
1. VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3. ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS OTHERWISE NOTED.
4. GC TO REVIEW ELECTRICAL PLANS FOR LIGHTING OR POWER STUB LOCATIONS PRIOR TO POURING SLAB.
5. REFER TO "03300 - CAST-IN-PLACE CONCRETE" IN SPECIFICATIONS FOR CONCRETE PATCHING OR INSTALLATION INFORMATION.
6. VERIFY PERIMETER FOUNDATION INSULATION IS EXISTING IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. ALL TILED FLOOR TO MAINTAIN POSITIVE SLOPE TO ALL FLOOR DRAINS OF NOT GREATER THAN 2% SLOPE FOR A 4'X4' AREA U.N.O.



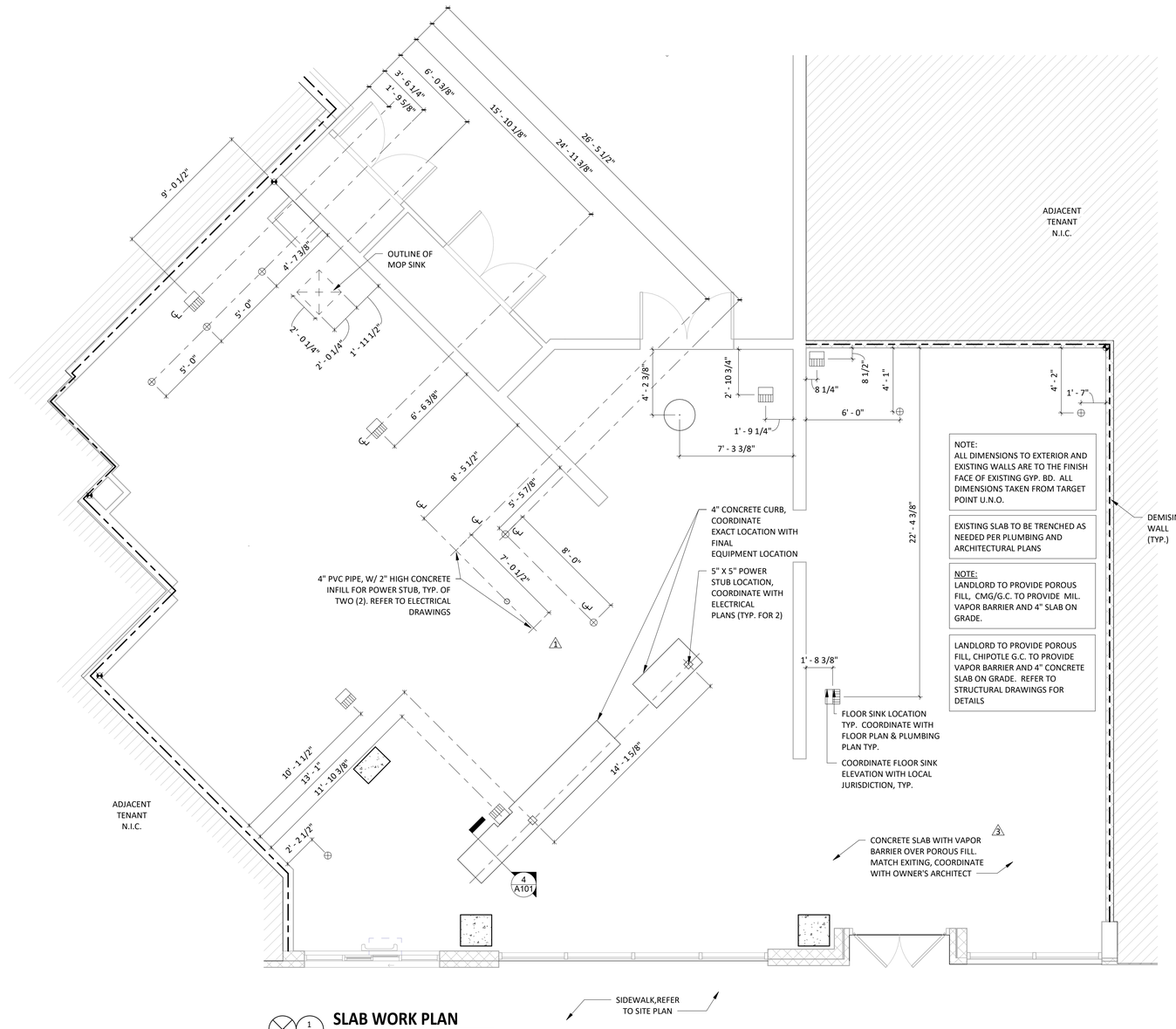
4 / A101 **CONCRETE CURB DETAIL**
3/4" = 1'-0"



3 / A101 **DEMISED PREMISES PLAN**
1/8" = 1'-0"



2 / A101 **CURB PLAN**
1/4" = 1'-0"



1 / A101 **SLAB WORK PLAN**
1/4" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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1	05/21/2024	PER TABLES RELOCATION
2	08/08/2024	PER LLD COMMENTS

Drawn: M.T.W.
Checked: J.C.C.

Project No.
22111

Contents:

SLAB WORK PLAN

A101.00

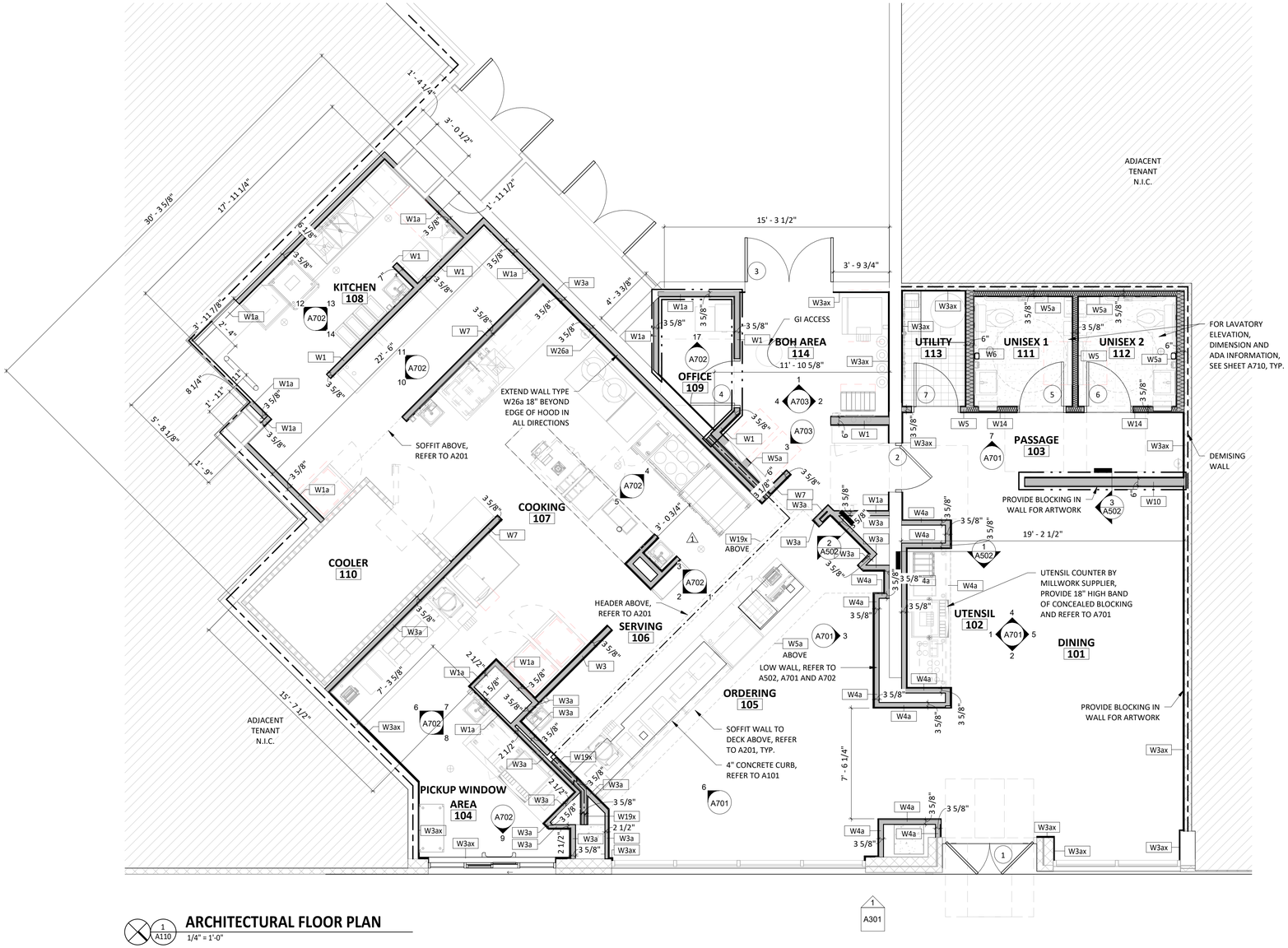
DOB NOW JOB #: B01050687-I1

WALL TYPE LEGEND

INTERIOR WALL CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.
2. DASHED CIRCLE IN RESTROOM INDICATES 5'-0" TURNING DIAMETER REQUIRED BY ADA.
3. REFER TO WALL FINISH SCHEDULE ON A120.
4. STUD SIZES AS INDICATED ON PLAN.
5. INTERIOR DOORS ARE 4" OFF OF PERPENDICULAR WALL U.N.O.
6. IN SITUATIONS WHERE TENANT'S G.C. IS TO PROVIDE TYPE 'X' GYP. BD. FOR A RATED ASSEMBLY, THE TYPE 'X' GYP. BD. IS REQUIRED TO GO BENEATH THE SHEATHING AND FINISHES.
7. SEE SHEET A801 FOR ADDITIONAL SHEATHING BEHIND CERTAIN WALL FINISHES.
8. SEE A601 FOR DOOR TYPES.
9. TENANT'S G.C. TO PERFORM LAYOUT OF ENTIRE SPACE PRIOR TO STARTING FRAMING AND REPORT ANY DESCREPANCIES IN NOTED DIMENSIONS TO ARCHITECT AND CHIPOTLE MEXICAN GRILL'S CM PRIOR TO PROCEEDING. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
10. SEE A501 FOR WALL TYPES.
11. PROVIDE DEFLECTION TRACKS AT WALLS WHICH GO TO THE UNDERSIDE OF THE DECKING, REFER TO DETAIL 3/A501
12. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
13. DENSSHIELD TILE BACKER BOARD SHALL NOT BE INSTALLED OVER VAPOR BARRIERS AT EXTERIOR WALLS.
14. MOISTURE RESISTANT GYP. BD. SHALL BE USED IN RESTROOMS.



1 A110 **ARCHITECTURAL FLOOR PLAN**
1/4" = 1'-0"

1 A301

Consultant:

HBC

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ARCHITECTURAL FLOOR PLAN

A110.00

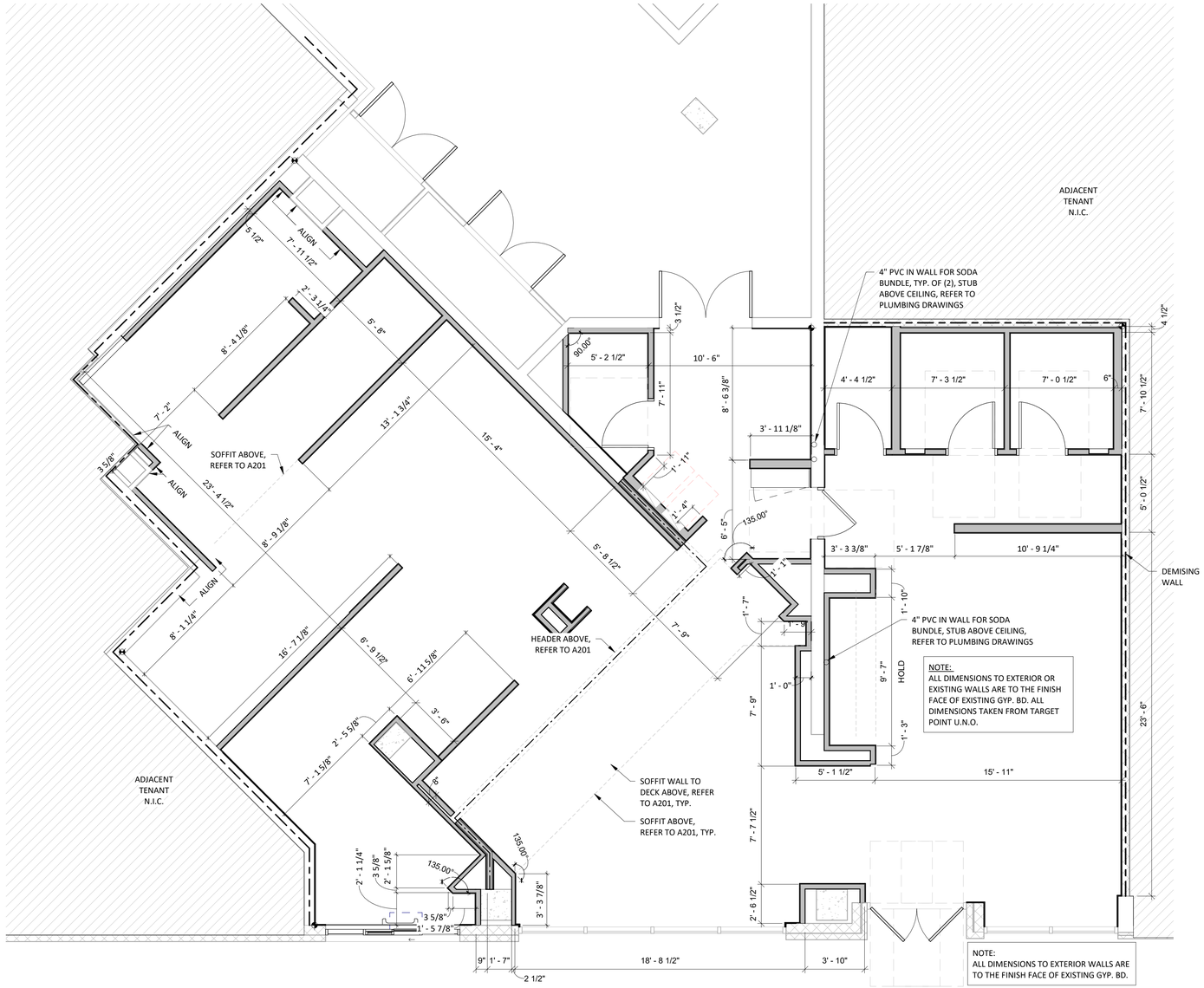
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WALL TYPE LEGEND

INTERIOR WALL CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
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DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	

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8. SEE A601 FOR DOOR TYPES.
9. TENANT'S G.C. TO PERFORM LAYOUT OF ENTIRE SPACE PRIOR TO STARTING FRAMING AND REPORT ANY DESCREPANCIES IN NOTED DIMENSIONS TO ARCHITECT AND CHIPOTLE MEXICAN GRILL'S CM PRIOR TO PROCEEDING. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
10. SEE A501 FOR WALL TYPES.
11. PROVIDE DEFLECTION TRACKS AT WALLS WHICH GO TO THE UNDERSIDE OF THE DECKING, REFER TO DETAIL 3/A501
12. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
13. DENSSHIELD TILE BACKER BOARD SHALL NOT BE INSTALLED OVER VAPOR BARRIERS AT EXTERIOR WALLS.
14. MOISTURE RESISTANT GYP. BD. SHALL BE USED IN RESTROOMS.



ARCHITECTURAL FLOOR PLAN - DIMENSIONS

1/A111 — 1/4" = 1'-0"

Consultant:

HBC

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ARCHITECTURAL FLOOR PLAN

A111.00

DOB NOW JOB #: B01050687-I1

CODED NOTES

1	1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 5'-0" AFF WITH 1-1/2" X 1-1/2" FRP CORNER TRIM ABOVE
2	SCHLUTER-QUADEC METAL CORNER, REFER TO 10&11/A802 & 11/A801.
3	ALUMINUM ENDCAPS, REFER TO 12/A802. FOR WINDOWS, REFER TO 12&13/A802
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. FLASH BOTTOM EDGE OVER MOP SINK RIM. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT, REFER TO 17/A801.
5	NOT USED
6	COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH.
7	G.C. TO PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT THE ICE MAKER.
8	PROVIDE WATERPROOFING MEMBRANE, REFER TO 4&5/A802. PROVIDE ON INTERIOR OF ALL RESTROOM WALLS, REFER TO 18/A801.
9	PROVIDE QUARRY TILE ON TOP OF CURB FOR SMART SAFE. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE, REFER TO SHEET 1/802. G.C. TO COORDINATE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION.
10	FRP CLOSURE AT COOLER AIR GAP, REFER TO 14/A801
11	NOT USED
12	OUTSIDE CORNER GUARD BY TMS, REFER TO 10/A801
13	W EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH. AT DOORS, ALIGN LOW EDGE WITH FRONT FACE OF DOOR.
14	NOT USED
15	PROVIDE TOP CORNER AT TRANSITION FROM GYP BD CEILING TO FRP WALL REFER TO 9/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF QUARRY TILE FROM KITCHEN, ALIGN TILE WITH EDGE OF DOOR THRESHOLD
19	EXTENT OF RESINOUS FLOORING FROM RESTROOM

GENERAL NOTES

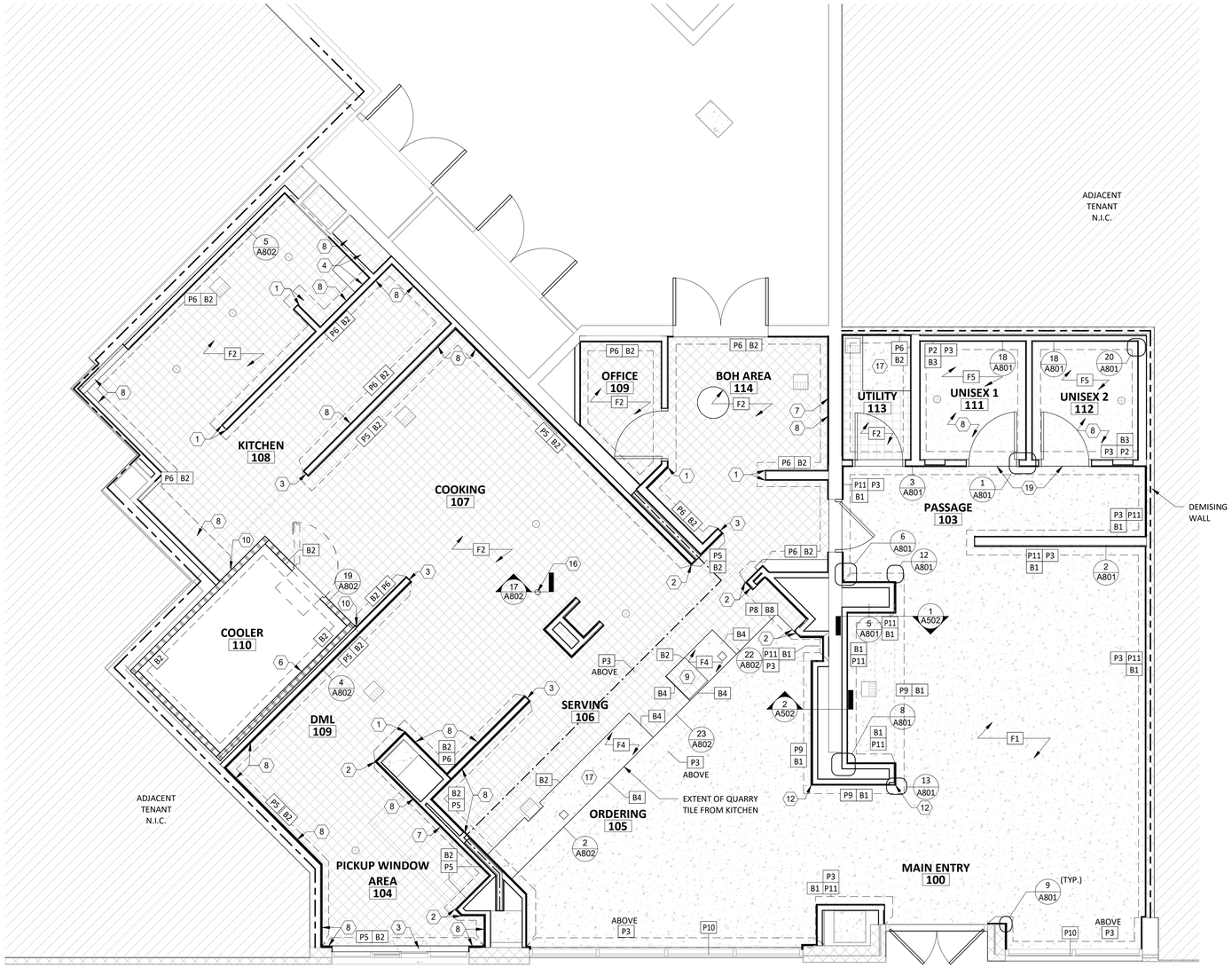
1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).

FINISH LEGEND

FLOOR FINISHES		WALL BASE FINISHES		WALL FINISHES		CEILING/DECK FINISHES		DOOR FINISHES	
LGD. #		LGD. #		LGD. #		LGD. #		LGD. #	
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	P1	PLYWOOD, VERTICAL GRAIN	C1	OPEN TO STRUCTURE, UNPAINTED	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	C2	STONEWOOD	D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL ABOVE 4'-3" AFF	C3	GYP BD; PAINT "MOONLIT SNOW"		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	GYP BD; PAINT "THIN ICE", SEMI-GLOSS BELOW 4'-3" AFF	C4	2X4 VINYL-FACED LAY-IN		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE	C5	EXISITNG SLAB UNFINISHED		
				P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)				
				P7	NOT USED				
				P8	CERAMIC TILE - ARTESEN ACCENT 2" x 4" BRICK JOINT MOSAIC PATTERN				
				P9	SPALTED MAPLE WALL PANEL, HORIZONTAL GRAIN				
				P10	STOREFRONT (EXISTING)				
				P11	STONEWOOD WALL PANEL				
				P12	STOREFRONT (NEW)				

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	REMARKS
100	MAIN ENTRY						
101	DINING	F1	B1		C3	14' 5 1/2"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F1	B1		C3	14'5 1/2"	SEE SHEET A701 AND SPECIFICATION SHEETS
104	PICKUP WINDOW AREA	F2	B2		C4	9'4"	SEE SHEET A701 AND SPECIFICATION SHEETS
105	ORDERING	F1	B4	REFER TO PLAN FOR WALL FINISHES	C3	14' 5 1/2"	SEE SHEET A701 AND SPECIFICATION SHEETS
106	SERVING	F2	B2		C3	9'0"	SEE SHEET A701 AND SPECIFICATION SHEETS
107	COOKING	F2	B2		C4	9'4"	SEE SHEET A701 AND SPECIFICATION SHEETS
108	KITCHEN	F2	B2		C4	9'4"	SEE SHEET A701 AND SPECIFICATION SHEETS
109	DML	F2	B2		C4	9'4"	SEE SHEET A701 AND SPECIFICATION SHEETS
109	OFFICE	F2	B2		C4	9'-0"	EXTEND SHEATHING TO STRUCTURE
110	COOLER	-	B2		-	-	SEE SHEET A701 AND SPECIFICATION SHEETS
111	UNISEX 1	F5	B3		C3	8'0"	SEE SHEET A701 AND SPECIFICATION SHEETS
112	UNISEX 2	F5	B3		C3	8'0"	SEE SHEET A701 AND SPECIFICATION SHEETS
113	UTILITY	F2	B2		C5	8'0"	SEE SHEET A701 AND SPECIFICATION SHEETS
114	BOH AREA	F2	B2		C4	9'0"	SEE SHEET A701 AND SPECIFICATION SHEETS



1 A120 **FINISH PLAN**
1/4" = 1'-0"

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
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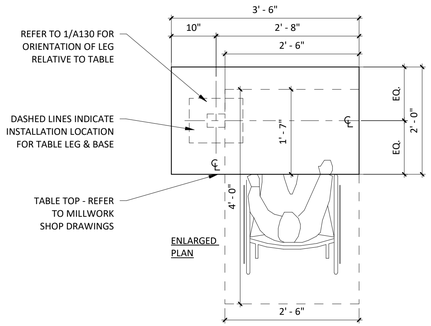
FINISH PLAN

A120.00

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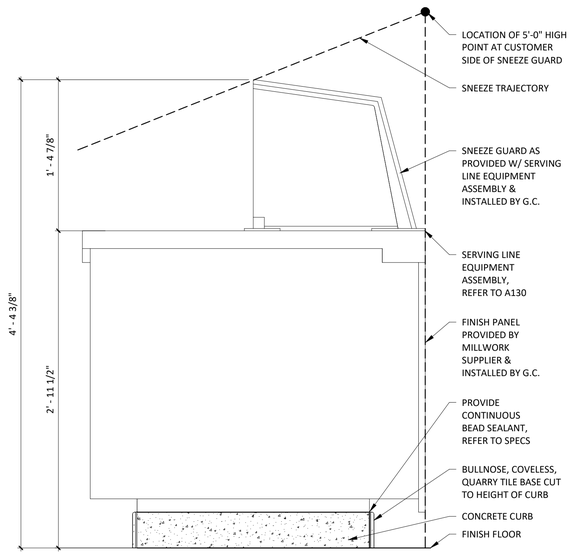
GENERAL NOTES

1.	REFER TO SHEETS A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2.	ALL DIMENSIONS ARE TO FACE OF FRAMING, EDGE OF EQUIPMENT OR CENTERLINE OF EQUIPMENT UNLESS NOTED OTHERWISE.
3.	ALL FURNITURE TO BE SQUARE/PARALLEL TO TENANT SPACE/WALLS AS SHOWN ON PLANS



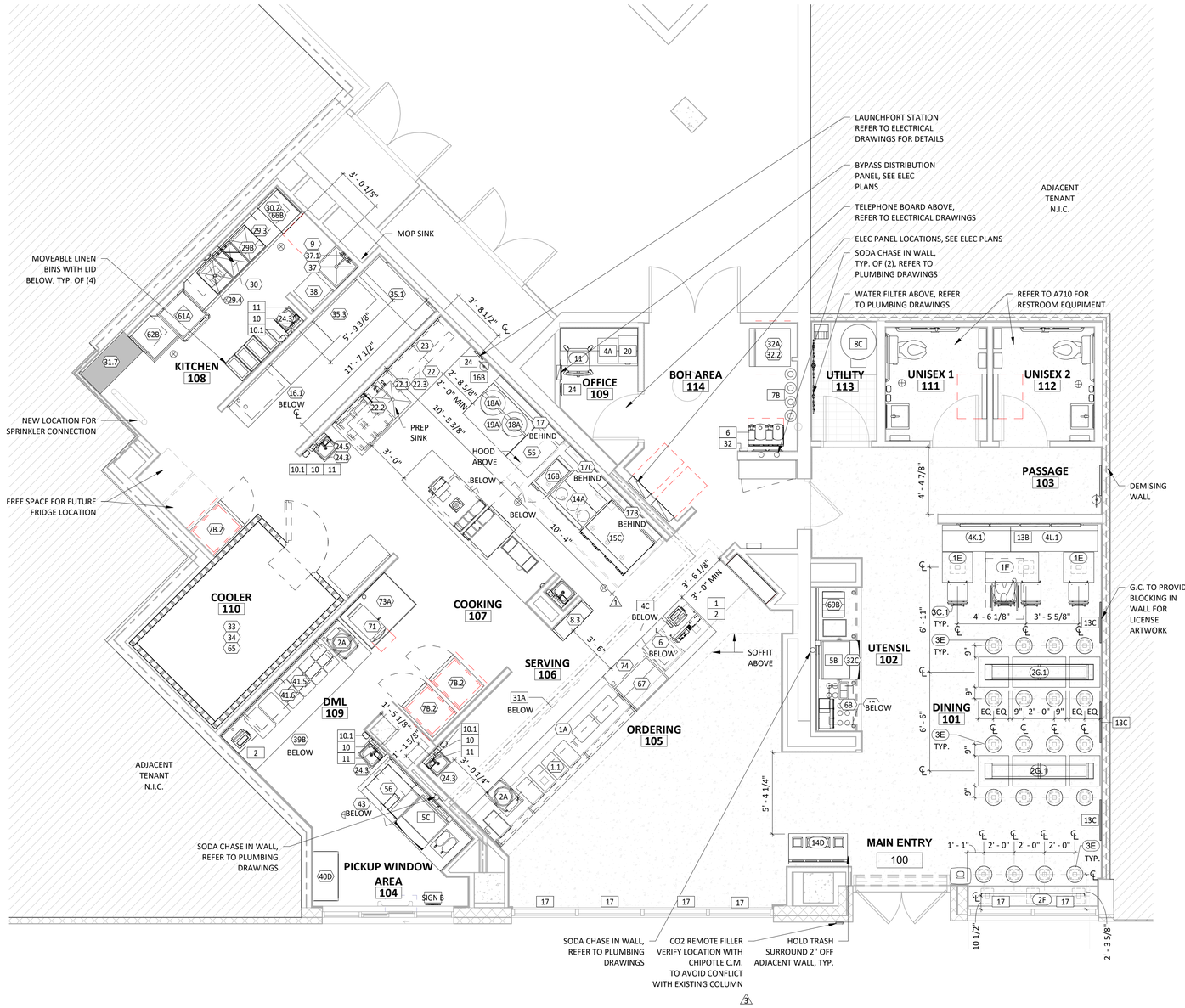
3 A130 DETAIL @ ACCESSIBLE TABLE

3/4" = 1'-0"



2 A130 DETAIL @ SERVE LINE SNEEZE GUARD

1 1/2" = 1'-0"



1 A130 FURNITURE, FIXTURE & EQUIPMENT PLAN

1/4" = 1'-0"

Consultant:

HBC

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10/23/2024	CONSTRUCTION SET

Revisions:

1 05/21/2024	PER TABLES RELOCATION
2 08/08/2024	PER LLD COMMENTS

Drawn: M.T.W.
Checked: J.C.C.

Project No.
22111

Contents:

FF&E PLAN

A130.00

DOB NOW JOB #: B01050687-I1

KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Right)	BSI	Custom-R	1	TMS	TMS/GC					
1A	Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	3	KES	KES	●				
8.3	M4.5 Chip Shelf	Trimark	Custom Width	1	KES	KES					
10	Blender	Vitamix	748	1	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
12	Undercounter Refrigerator	Varies	Varies	1	KES	KES	●				
13C	Garland Grill - 48in - Electric	Garland	ECG-48R	1	KES	KES	●				
14A	Range 6 Burner - Electric	Imperial	IR-6-E	1	KES	KES		●			
15C	Garland Grill Stand 48x31in	Garland	SCG-48SC	1	KES	KES					
16.1	Grease Caddy	American Welding	Chipotle Grease Caddy	1	KES	KES					
16B	Fryer - Electric	Imperial	IFS-40-E	1	KES	KES	●				Mounted On Legs, G.C. To Pin Front Legs To Floor
17	Cook Line Stand Off - 72x6	Nationwide Fab; Marlo Mfg	CHP-6WS-6	1	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location, Provide Blocking To Mount To Wall
17B	Cook Line Stand Off - 60x6	Nationwide Fab; Marlo Mfg	CHP-5WS-6	1	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location
17C	Retherm Line Stand Off - 42x6	Nationwide Fab; Marlo Mfg	CHP-42WS-6	1	KES	KES					Mount Top of Flat Surface at 32" AFF, Install Screws at Each Stud Location
18A	Electric Rice Cooker	Tiger	JIW-A540	2	KES	KES	●				Final Connection by GC. RE: Electrical Drawings
19A	Rice Cooker Stand - Electric	Nationwide Fab; Marlo Mfg	Custom	1	KES	KES					
22	Prep Sink - Corner - Right	Trimark	S1-122x34-US-FF-L	1	KES	GC				●	
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			●		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				●	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
23A	2 Shelves - 30in	Amco	Custom	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	5	KES	GC				●	Provided with B-0199-06-F10, 1.0 GPM Aerator, Provide Plywood Blocking To Mount To Wall
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	5	KES	GC			●		
25.1	Rice Prep Table Island w/Carving Station - 137x34in - Left	Delfield	Custom	1	KES	KES	●				
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-1220-8-8-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 23x48x85in - With Vented Aluminum Covers	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1A	Ice Maker - Remote Condenser	Hoshizaki	URC-5F	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.1B	Ice Maker - Remote Condenser	Hoshizaki	URC-9F	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.2	Ice Maker - Storage Bin	Hoshizaki	B500SF	1	KES	KES				●	
32.3	Icemaker- Filter	Cuno	Bev 190	3	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	3	KES	KES			●		
32.5	Ice Maker - Sanitizer	RGF	IMSB	3	TUV	GC	●				Refer To Installation Guide. When Installed At Utensil Counter, Mount Below Counter In Accessible Location. Refer To Plumbing Drawings.
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJ	1	KES	KES	●		●		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshisaki	KMD-530MAJ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32D	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Hoshisaki	KMD-530MRJ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x9ft 10in - Standard - Insulated Floor	Manitowoc/Norlake	CHP912SL-RS-FLOOR	1	WCS	GC	●			●	Refer To Plumbing and Mechanical Drawings; Refrigeration By Tenant; Remote Exterior Compressor Unit To Be Secured To Roof Per Code By GC
34	Walk-In Cooler Shelving System - 9x12x9	Cambro (Camshelving)	CHP912EL	1	KES	KES					
35.1	Dry Storage Racks 23x48x85in	Varies	Custom	2	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
35.3	Dry Storage Racks 23x144x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standards At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			●		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Amco	CHPCS85	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	●			●	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
40D	Holding Shelf	Trimark	TGS-39X20X80-B	1	KES	KES	●				
41.5	DML 2.0 Shelving - 130in - Top Shelf	Franke/Delfield	CH000A32	1	KES	KES					Mount Bottom Of Shelf At 74 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
41.6	DML 2.0 Shelving - 130in - Bottom Shelf	Franke/Delfield	CH000A34	1	KES	KES					Mount Bottom Of Lowest Portion Of Shelf At 54 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
42	Shelving System Under Counter Beverage Station	ISS	WST1810CLR	1	KES	KES					Mounted on (4) casters, All casters to be swivel type, Front (2) casters to have brake, Located under utensil counter
43	Beverage Cooler Backbar 36in	Glasstender	LP36X-SS(X)	1	KES	KES	●				
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
56	Beverage Table - Chipotlane	Trimark	TS-36x92.5x36	1	KES	GC	●			●	
61A	Dish Machine	Hobart	AM15SCB-8	1	KES	KES	●		●	●	
62B	Dish Table 30x30	Trimark	CDT-30X30X36.5-B	1	KES	GC					
65	Utility Cart (Not Shown)	Select Stainless	30SU-22-14-C4-TUBS-CUSTOM	1	KES	GC					Provided As Part Of The WIC Shelving
66B	Drop-Off Table - 22x30in	Trimark	TS-22x30x31-US-C	1	KES	KES					
67	Refrigerated Counter Case, Self-Serve	Structural Concepts	CO3324R-UC	1	KES	KES					
69B	M4.0 - Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16	1	KES	GC	●			●	
70	Speed Fill Faucet	T&S	B-0432 MOD	1	KES	GC			●		
71	Quesadilla Press	Turbochef	Sota Touch	1	KES	KES	●				
73A	50" TurboChef Table	Trimark	50X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

Consultant:

HBC

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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 22111

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EQUIPMENT SCHEDULE

A131.00

DOB NOW JOB #: B01050687-I1

MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Install in Office, Bolt to Office Floor Slab
4C	Smart Safe	1	TSS	TSS	●				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
5B	Soda Dispenser - With Air-Cooled Ice Maker	1	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
5C	Soda Dispenser - With Remote Air-Cooled Ice Maker	1	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf	1	SPS	SPS	●		●		
7B	CO2 Canisters	1	CO2	CO2					GC To Secure Cylinders To Wall With Grade 30 Galvanized Steel Chain At 2/3 The Height Of The Cylinder. Attach To Wall With Stainless Steel Quick Link And Screw Eye
8C	Electric Water Heater	1	WHS	GC	●		●	●	Drain Water Heater To Floor Drain, RE: Mech.
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	5	WA	GC					
10.1	Hand Sanitizer Dispenser	6	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	5	WA	GC					Provide Plywood Blocking to Mount to Wall
13B	M4.0 - Artwork Panel - Mixed Media, 2Hx4L Panels, Start Pattern At Column 1	1	TAS	GC					
13C	M4.0 - DIGITAL ART BOARD	3	TAS	TAS	●				GC TO PROVIDE BLOCKING IN WALL AS NECESSARY
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
16A	Fire Extinguisher Type ABC - B456	2	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16B	Fire Extinguisher Type K	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
17	Window Shades	6	WS	WS					See Sheet A130 For Location & Size (When Used)
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
24	iPAD Wall Station	2	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Mount At 18" AFF, Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					
SIGN B	12" INTERIOR DOUBLE FACED PICK-UP SIGN (SINGLE SIDE ILLUMINATION)	1	TSV	GC					

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	2	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	1	TMS	GC					See Detail On A130
2F	M4.0 - Stand Up Bar - Custom Length	1	TMS	GC					
2G.1	M4.0 - Bar Height Table 8-Top, With Footrest	2	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	4	TMS	GC					
3E	M4.0 - Bar Stool - Fixed	20	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4K.1	Banquette Bench (Black) - Floor Mount	1	TMS	GC					
4L.1	Banquette Bench (Black) - Floor Mount	1	TMS	GC					
6B	M4.0 - Beverage Counter - No Trash - 4" Splash - 113"	1	TMS	GC				●	Coordinate Floor Drain Installation with Utensil Counter Installation
11	Office Chair, By Tenant	1	T	T					By Tenant
14D	M4.0 - 4 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Stainless Edge Of The Shelf To Face Kitchen

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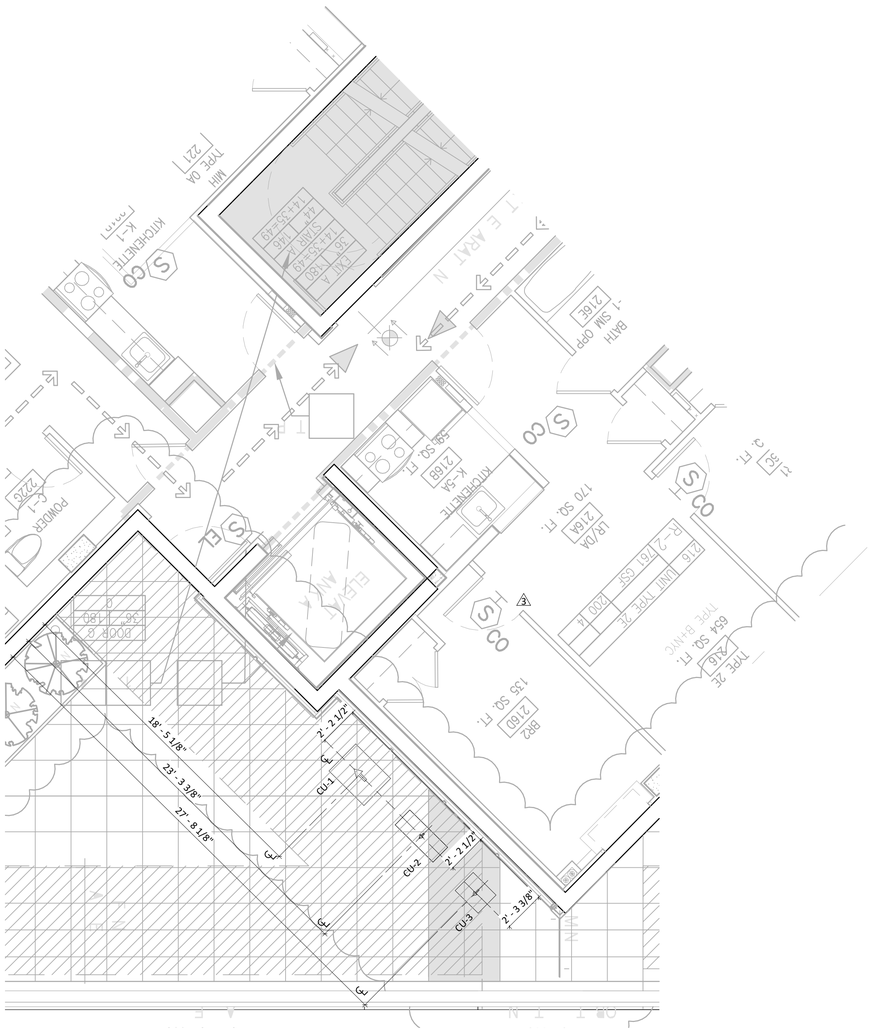
EQUIP. & FURNITURE SCHEDULE

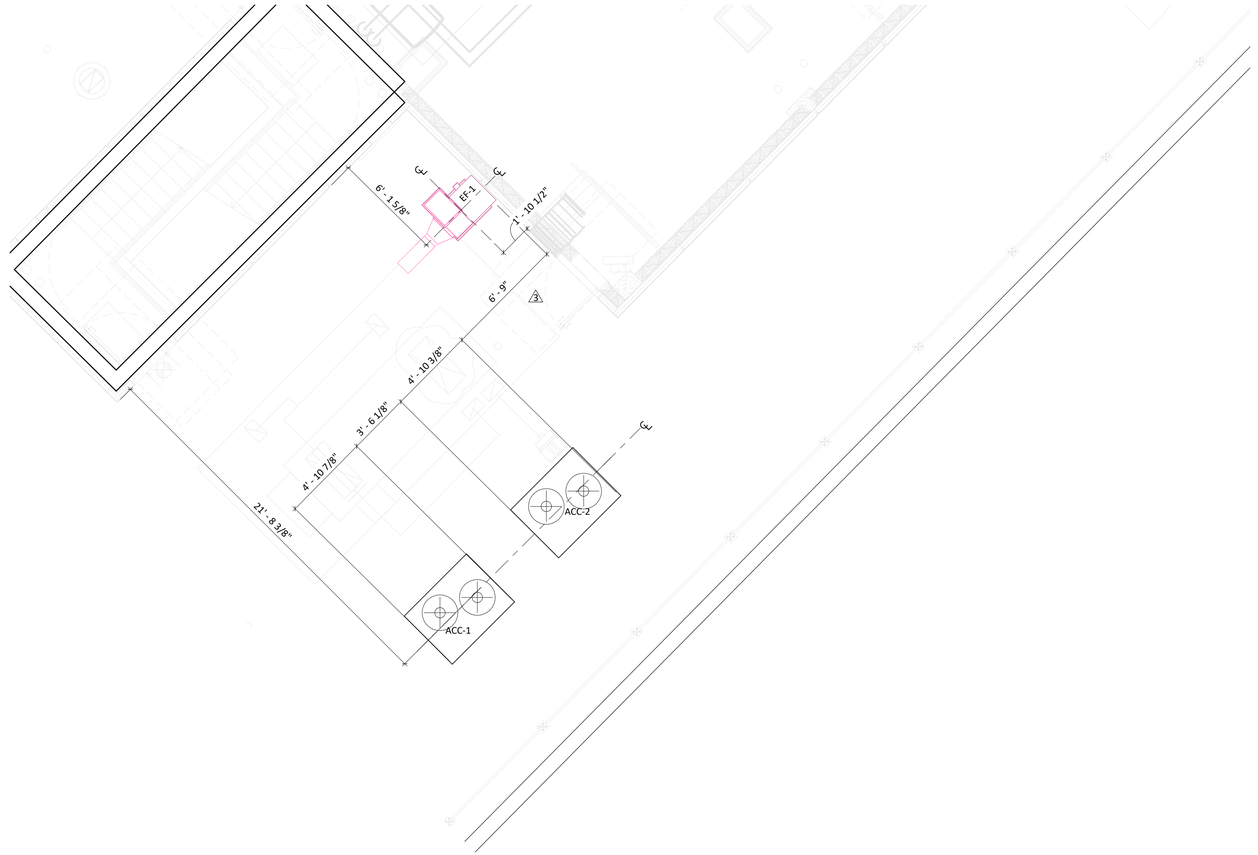
A132.00

DOB NOW JOB #: B01050687-I1

GENERAL NOTES

1.	SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
2.	SEE MECHANICAL PLANS FOR ROOF TOP EQUIPMENT.
3.	COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
4.	DIMENSIONS FOR ROOF TOP EQUIPMENT WITH CURBS IS TO THE OUTSIDE FACE OF THE CURB. DIMENSIONS FOR EQUIPMENT WITHOUT CURBS ARE TO THE CENTER OF THE UNIT. ALL DIMENSIONS ARE FOR REFERENCE ONLY. ROOFING CONTRACTOR TO ADJUST AS NECESSARY IN FIELD. CONTACT ENGINEERING CONSULTANTS FOR ANY MAJOR MODIFICATIONS TO LAYOUT.
5.	JOISTS FOR SHELL BUILDING ARE TO BE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENT EXHIBITED. IF LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY.
6.	SEE M700 FOR PENETRATION DETAILS AT RTUS AND THE EXHAUST FAN.
7.	PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
8.	PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS.
9.	LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.





SECOND FLOOR PLAN

2 / A140

1/4" = 1'-0"

ROOF AND BULKHEAD FLOOR PLAN

1 / A140

1/4" = 1'-0"

Consultant:

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Contents:

ARCHITECTURAL ROOF PLAN

A140.00

DOB NOW JOB #: B01050687-I1

GENERAL NOTES

1.	ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.
2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
3.	KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.
4.	ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.
5.	MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.
6.	PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.
7.	REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.
8.	UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
9.	ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.
10.	LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
11.	ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/ OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
12.	ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
13.	ALL WATER LINES AND EXPOSED PCV SHALL BE INSTALLED UP IN TRUSSES AND PAINTED VICTORIAN PEWTER.
14.	ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
15.	SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
16.	ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
17.	FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN, REFER TO A120.
18.	ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH THE CHIPOTLE CM SHOULD ANY CONFLICTS ARISE.
19.	BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
20.	ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 10/A210 AND PLUMBING DRAWINGS FOR DETAILS.
21.	REFER TO STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
22.	ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
23.	NOT USED
24.	ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
25.	SECURITY CAMERA LOCATIONS ARE ONLY APPROXIMATE LOCATIONS. FOR GUIDANCE ON THE SPECIFIC LOCATION/ORIENTATION OF THESE CAMERAS, REFER TO THE ENVYSION INSTALLATION GUIDE
26.	REFER TO A120 FOR FINISH SCHEDULE

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITIES ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	•				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	•				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	•				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	1	SSS	SSS	•				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	7	SSS	SSS	•				

TECTUM PANEL SCHEDULE

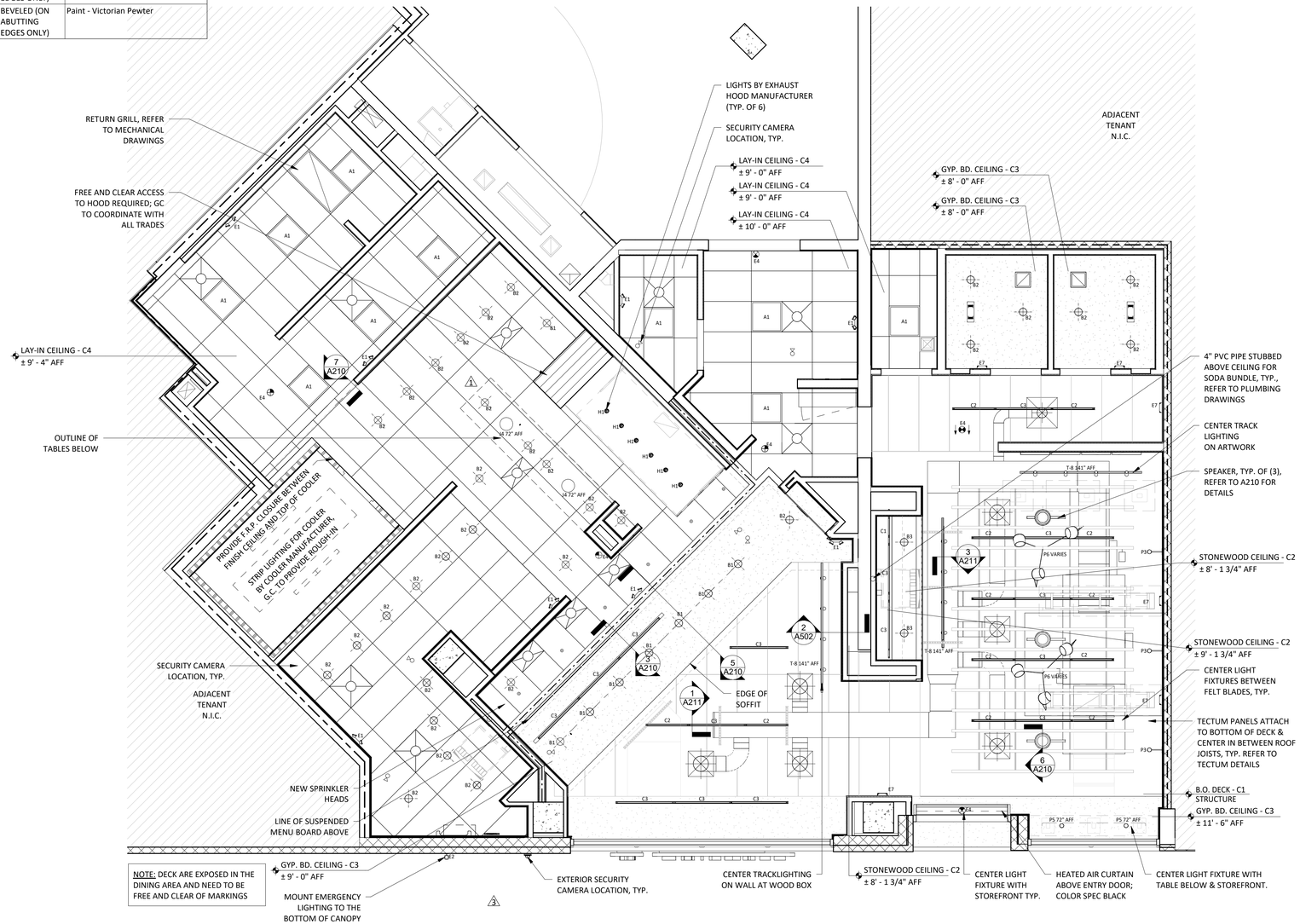
QTY.	THICKNESS	WIDTH	LENGTH	EDGE	FINISH
1	1"	13"	60"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
2	1"	24"	21"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
2	1"	24"	45"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
9	1"	24"	60"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
2	1"	24"	69"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
1	1"	24"	93"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
11	1"	24"	96"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter

CONDUIT GUIDELINES

SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	3	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS



1 A201 **REFLECTED CEILING PLAN**
1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
A1	10	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	8	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	32	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	2	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C1	1	SURFACE	LOW PROFILE LED 2FT	SEE SHEET E100
C2	12	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	15	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
E1	8	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E2	1	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	6	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	6	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
F1	1	WALL	2' LED FIXTURE	SEE SHEET E100
H1	6	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P3	3	WALL	ACCENT LIGHT - ARTWORK LIGHT FIXTURE	SEE SHEET E100
P5	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	2	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	12	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-8	3	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
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STORE NO.: 31-4872
BEDFORD STUYVESANT,
1510 BROADWAY
BROOKLYN, NY 11221

Issue Record:

04/23/2024	LLD REVIEW SET
08/20/2024	PERMIT SET
05/02/2024	BID SET
10/23/2024	CONSTRUCTION SET

Revisions:

1 05/21/2024	PER TABLES RELOCATION
3 08/08/2024	PER LLD COMMENTS

Drawn: M.T.W. Checked: J.C.C.

Project No. 22111

Contents:

REFLECTED CEILING PLAN

A201.00

DOB NOW JOB #: B01050687-I1

GENERAL NOTES

1.	ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.
2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
3.	KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.
4.	ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.
5.	MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.
6.	PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.
7.	REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.
8.	UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
9.	ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.
10.	LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
11.	ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/ OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
12.	ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
13.	ALL WATER LINES AND EXPOSED PCV SHALL BE INSTALLED UP IN TRUSSES AND PAINTED VICTORIAN PEWTER.
14.	ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
15.	SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
16.	ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
17.	FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN, REFER TO A120.
18.	ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH THE CHIPOTLE CM SHOULD ANY CONFLICTS ARISE.
19.	BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
20.	ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 10/A210 AND PLUMBING DRAWINGS FOR DETAILS.
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22.	ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
23.	NOT USED
24.	ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
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26.	REFER TO A120 FOR FINISH SCHEDULE

LIGHT FIXTURE SCHEDULE

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A1	10	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
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T-8	3	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITIES: ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	●				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	1	SSS	SSS	●				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	7	SSS	SSS	●				

TECTUM PANEL SCHEDULE

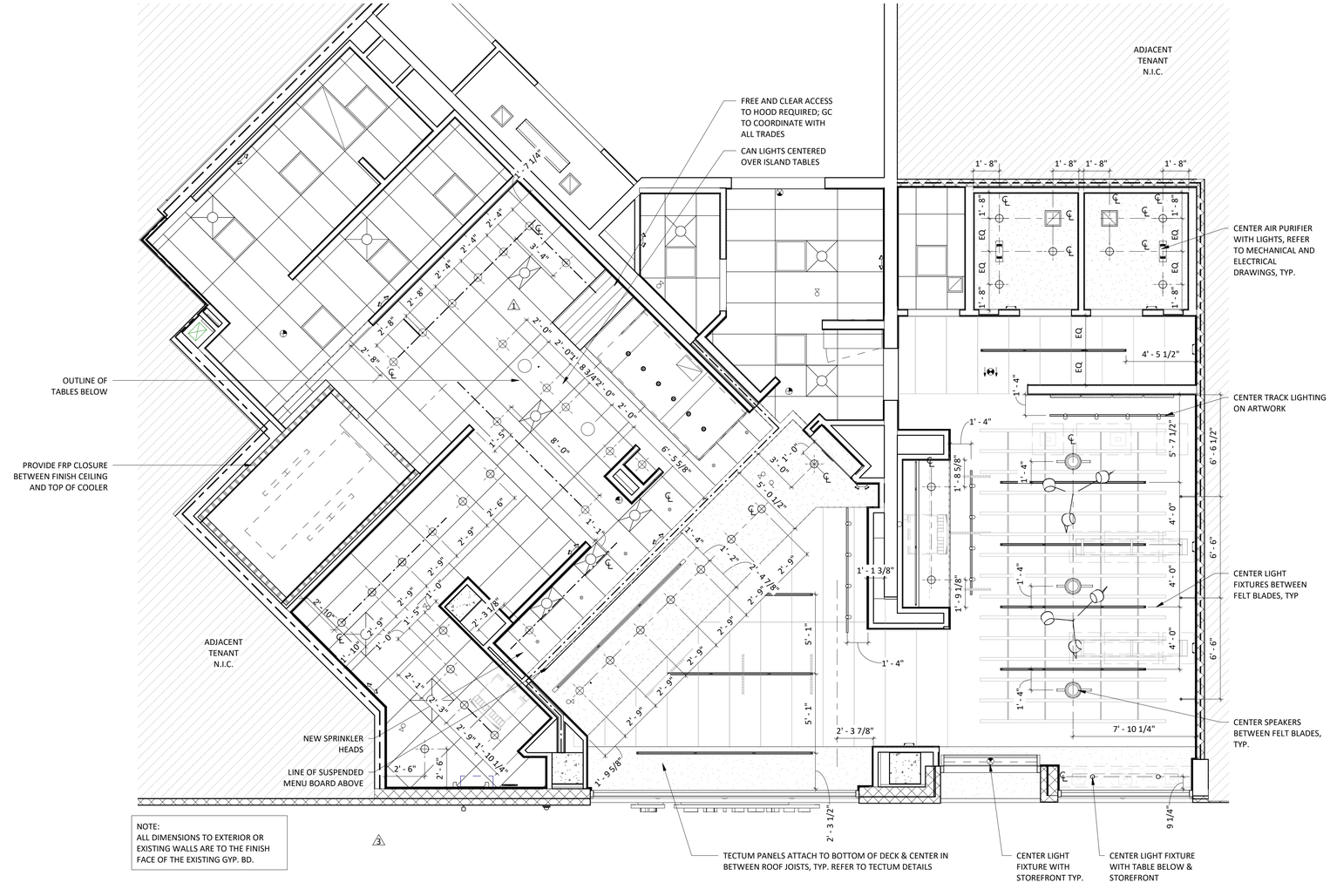
QTY.	THICKNESS	WIDTH	LENGTH	EDGE	FINISH
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2	1"	24"	21"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
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CONDUIT GUIDELINES

SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	3	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS



NOTE:
ALL DIMENSIONS TO EXTERIOR OR EXISTING WALLS ARE TO THE FINISH FACE OF THE EXISTING GYP. BD.

1 / A202 DIMENSIONED REFLECTED CEILING PLAN

1/4" = 1'-0"

Consultant:

HBC

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Drawn: M.T.W. Checked: J.C.C.

Project No. 22111

Contents:

DIMENSIONED REFLECTED CEILING PLAN

A202.00

DOB NOW JOB #: B01050687-I1

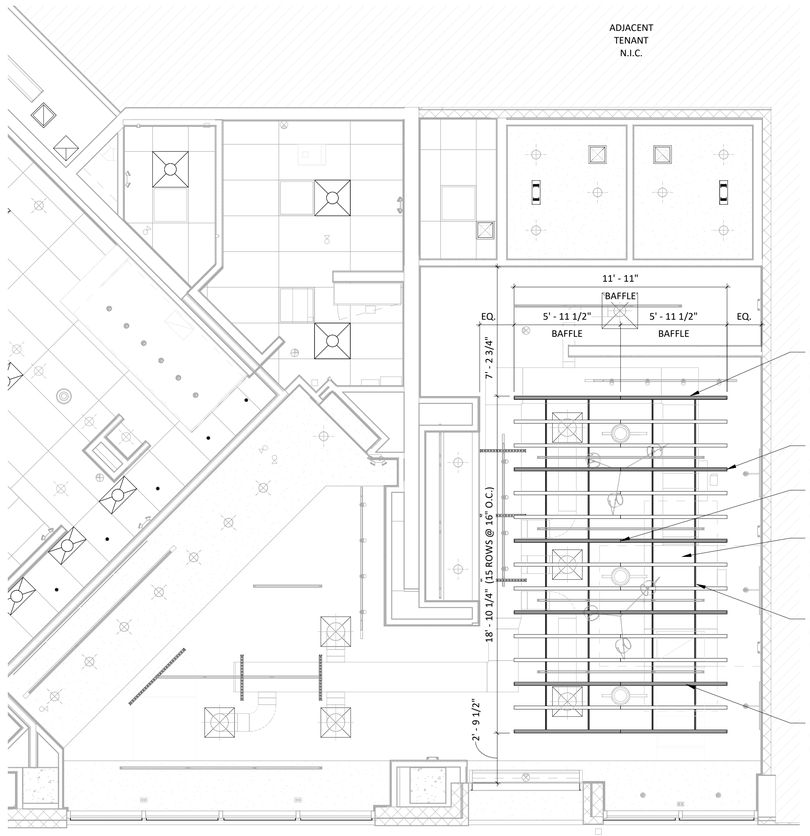
FELT BAFFLE CEILING SYSTEM SCHEDULE

*BLADES TO BE INSTALLED 1'-4" O.C. U.N.O.

QTY	DESCRIPTION	FINISH
15	2.25" x 8.75" FELT BAFFLE SECTION - 6' LONG (11' - 11")	GREY
15	BAFFLE INTERNAL SPLINE CONNECTOR	MATCH BAFFLE FINISH
30	BAFFLE END CAP	MATCH BAFFLE FINISH

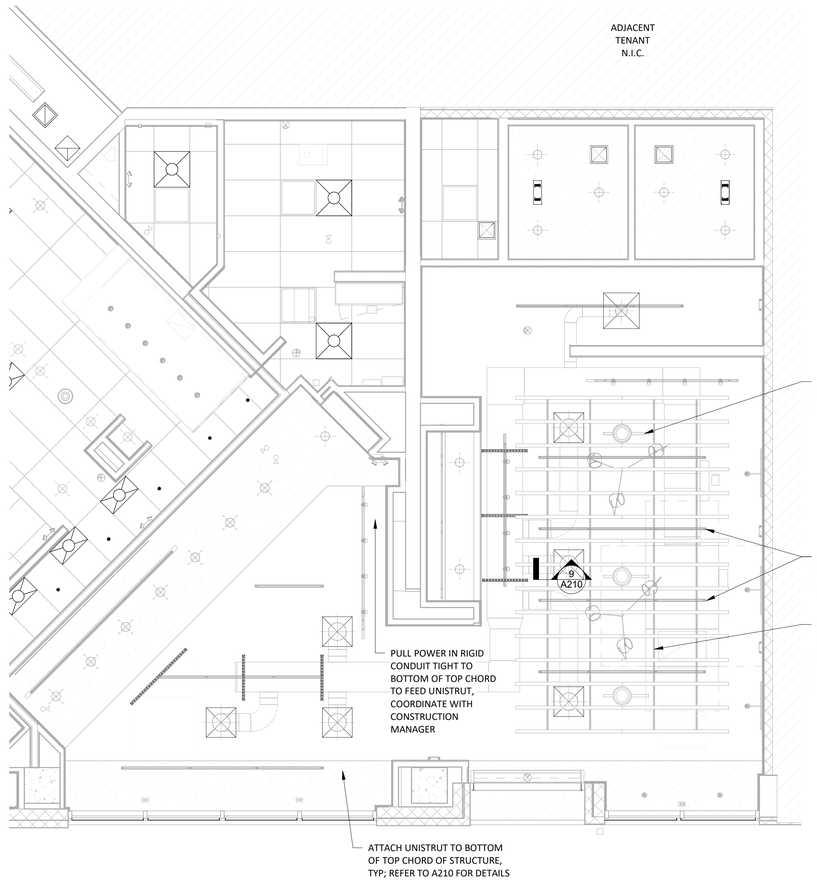
GENERAL NOTES

1. REFER TO SHEET A201 FOR GENERAL REFLECTED CEILING PLAN NOTES.



2 A203 **FELT BLADE PLAN**

1/4" = 1'-0"



1 A203 **UNISTRUT AND DUCTWORK LAYOUT**

1/4" = 1'-0"

Consultant:

HBC

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Checked: J.C.C.

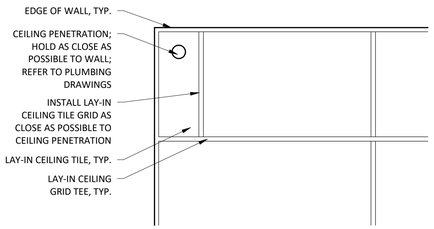
Project No.
22111

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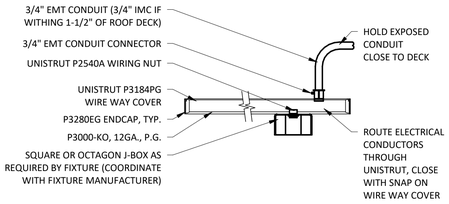
FELT BLADE AND DUCTWORK PLAN

A203.00

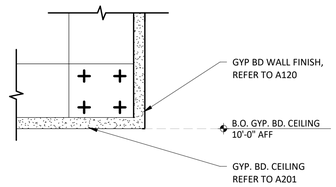
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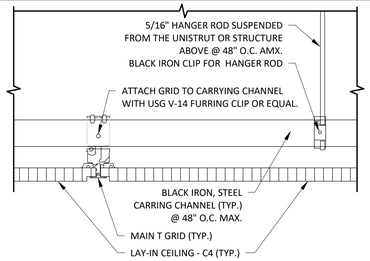
13 / A210 LAY-IN CEILING PENETRATION - PLAN DETAIL
3/4" = 1'-0"



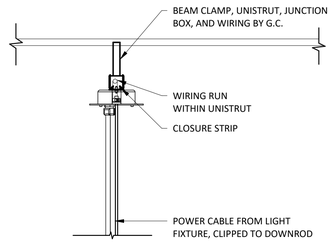
12 / A210 UNISTRUT MOUNTING DETAIL
1 1/2" = 1'-0"



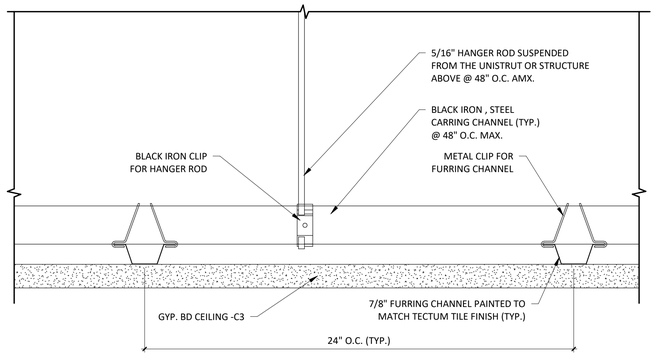
11 / A210 RESTROOM VESTIBULE DETAIL
3" = 1'-0"



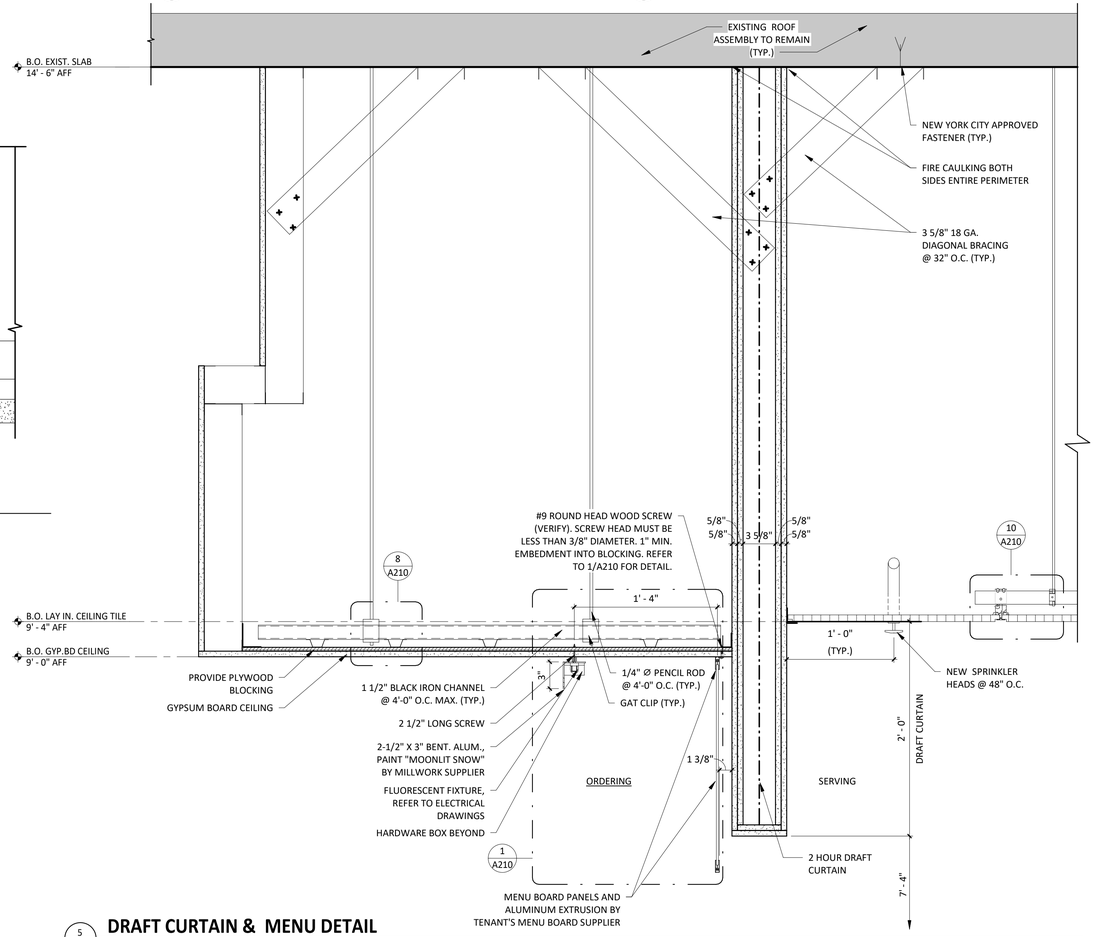
10 / A210 LAY-IN CEILING DETAIL
3" = 1'-0"



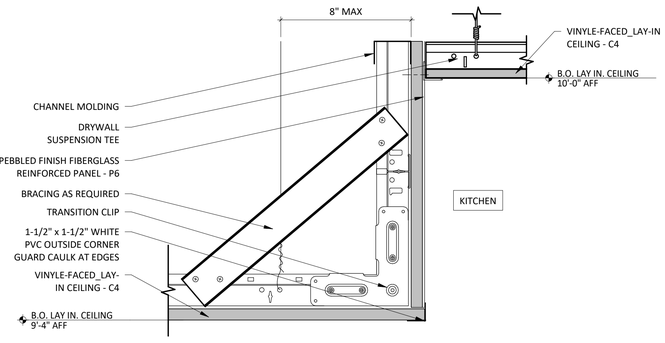
9 / A210 UNISTRUT DETAIL
1 1/2" = 1'-0"



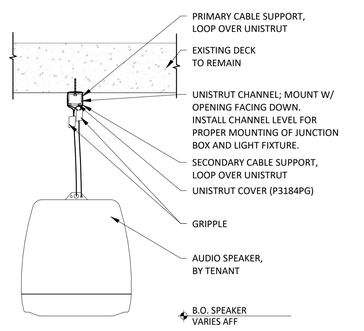
8 / A210 GYP. BD. CEILING DETAIL
3" = 1'-0"



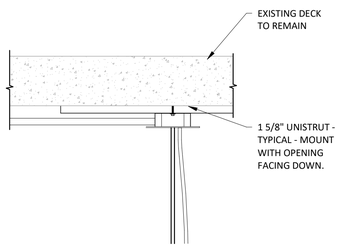
5 / A210 DRAFT CURTAIN & MENU DETAIL
1 1/2" = 1'-0"



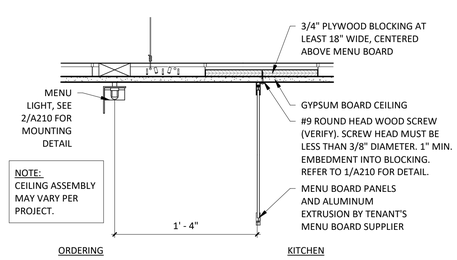
7 / A210 KITCHEN CEILING TRANSITION
3" = 1'-0"



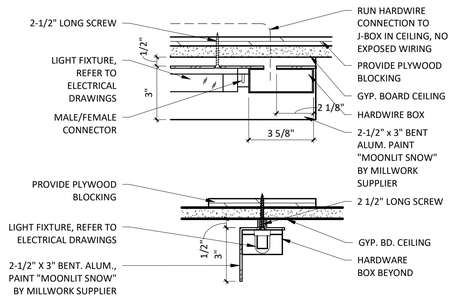
6 / A210 SPEAKER INSTALLATION
1 1/2" = 1'-0"



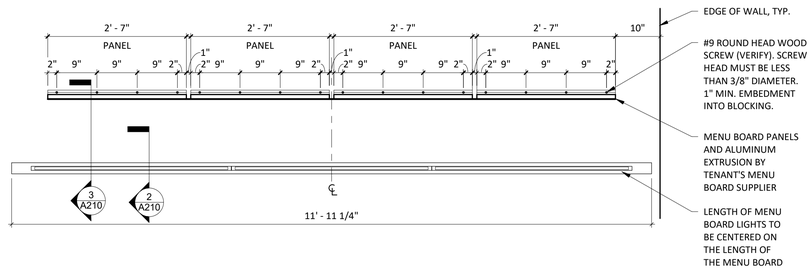
4 / A210 TYP. UNISTRUT MOUNTING DETAIL
1 1/2" = 1'-0"



3 / A210 MENU BOARD DETAIL
1 1/2" = 1'-0"



2 / A210 MENU BOARD / ACCENT LIGHT DETAILS
3" = 1'-0"



1 / A210 MENU - SCREW PATTERN PLAN
3/4" = 1'-0"

Consultant:
HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
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COLUMBUS, OH 43218-2566
TELEPHONE: (614) 318-2482
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 31-4872
BEDFORD STUYVESANT,
1510 BROADWAY
BROOKLYN, NY 11221

Issue Record:

04/23/2024	LLD REVIEW SET
08/20/2024	PERMIT SET
05/02/2024	BID SET
10/23/2024	CONSTRUCTION SET

Revisions:

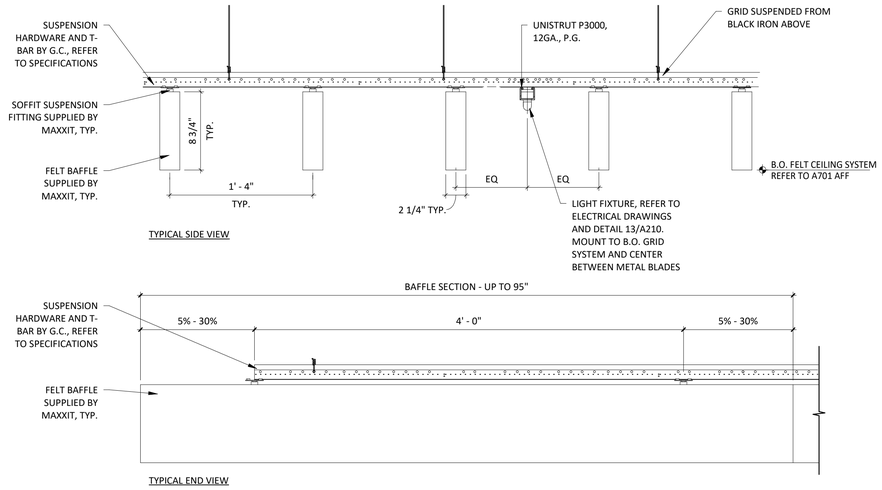
Drawn: M.T.W.
Checked: J.C.C.

Project No.
22111

Contents:
CEILING DETAILS

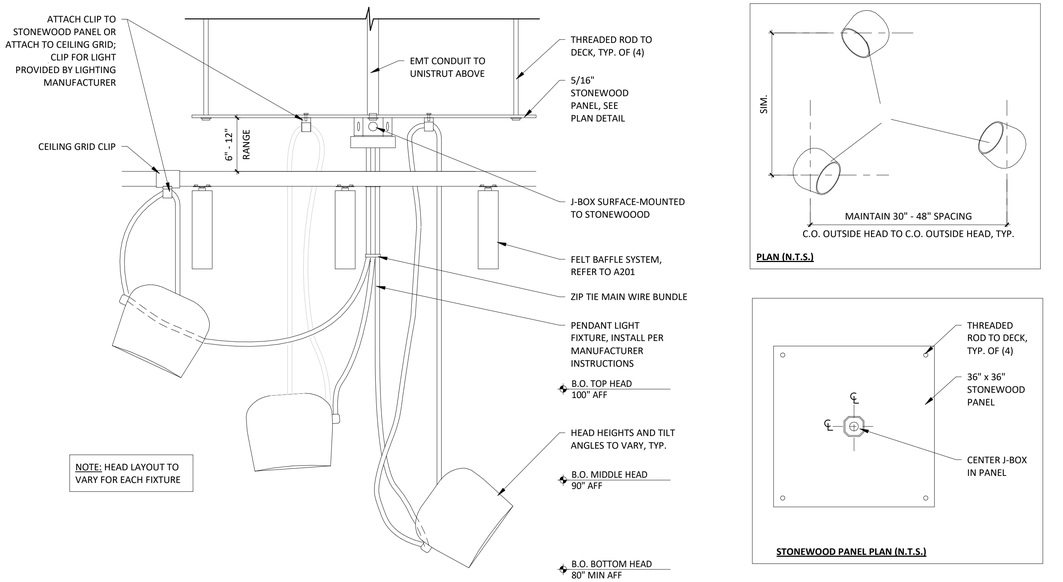
A210.00

DOB NOW JOB #: B01050687-I1



6 A211 FELT BLADE LAYOUT

1 1/2" = 1'-0"

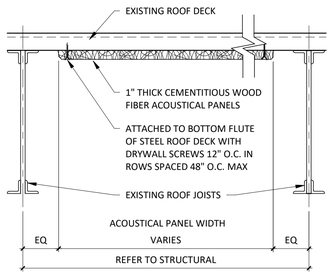


5 A211 SUSPENDED LIGHT FIXTURE

1 1/2" = 1'-0"

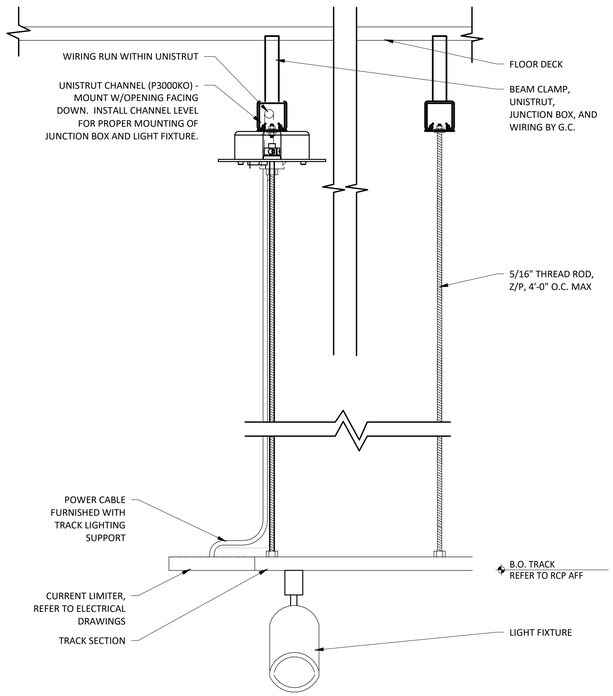
PLAN (N.T.S.)

STONEWOOD PANEL PLAN (N.T.S.)



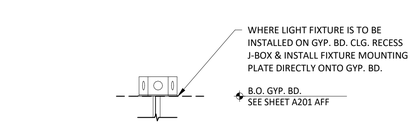
4 A211 TECTUM DETAIL

1 1/2" = 1'-0"

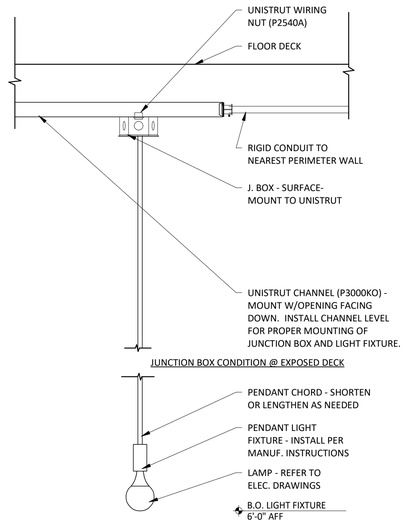


3 A211 SUSPENDED TRACK LIGHT CONNECTION DETAIL

3" = 1'-0"



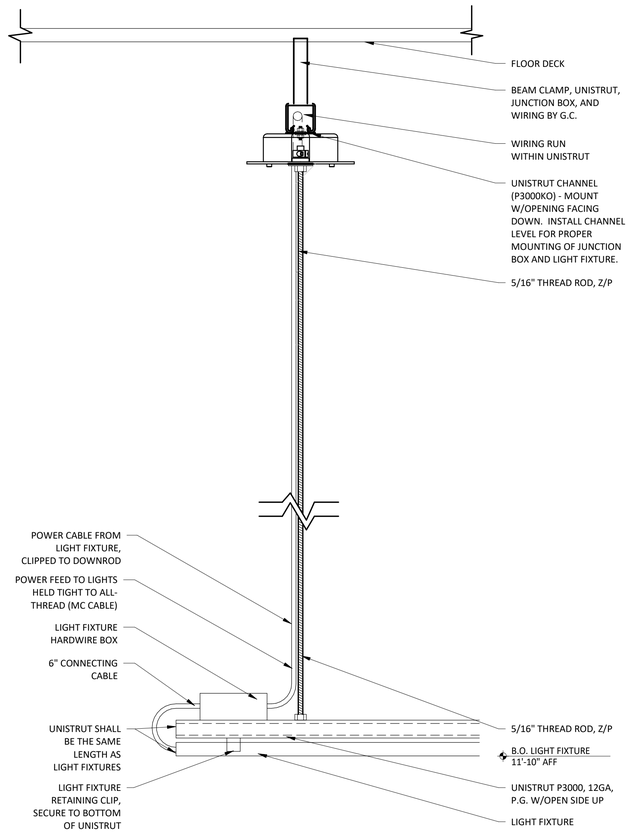
JUNCTION BOX CONDITION @ GYP. BD. CEILING



JUNCTION BOX CONDITION @ EXPOSED DECK

2 A211 PENDANT LIGHT FIXTURE

1 1/2" = 1'-0"



1 A211 SUSPENDED STRIP LIGHT CONNECTION DETAIL

3" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
tel: 212 - 647 - 0011
fax: 212 - 647 - 0022

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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 22111

Contents:

LIGHTING DETAILS

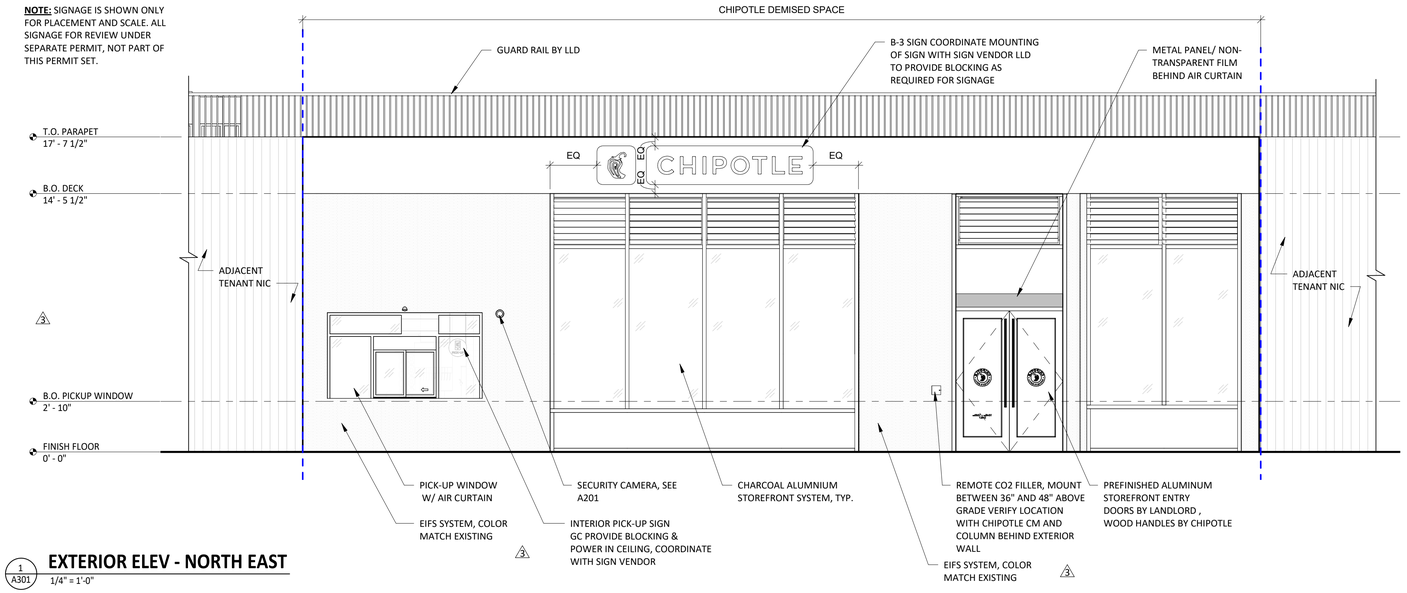
A211.00

DOB NOW JOB #: B01050687-I1

GENERAL NOTES

1.	REFER TO EXTERIOR ELEVATIONS THIS SHEET FOR EXTERIOR SIGNAGE LOCATIONS, SIZES & DESCRIPTIONS.
2.	EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.

NOTE: SIGNAGE IS SHOWN ONLY FOR PLACEMENT AND SCALE. ALL SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT, NOT PART OF THIS PERMIT SET.



1 / A301 **EXTERIOR ELEV - NORTH EAST**

1/4" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
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Revisions:

3 08/08/2024	PER LLD COMMENTS

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 22111

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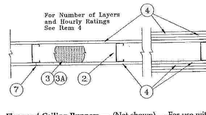
EXTERIOR ELEVATIONS

A301.00

DOB NOW JOB #: B01050687-I1

Design No. U419

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)



1. **Floor and Ceiling Runners —** (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling, with fasteners 24 in. OC max.

1A. **Floor and Ceiling Runners*** — Not shown – In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. wide with 1 in. long legs, fabricated from min. 0.0150 in. (0.0146 in., min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
DIETRICH INDUSTRIES INC —UltraSTEEL®.

1B. **Floor and Ceiling Runners —** (Not shown – In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-9/16 in. wide with 1-3/16 in. wide flanges, fabricated from min. 0.0150 in. galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max.
DIETRICH INDUSTRIES INC —UltraSTEEL®.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced at 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

A. **Steel Studs*** — In lieu of Item 2 - Proprietary channel shaped studs, min. width as indicated under Item 4, min. 1-1/4 in. long legs and 1/4 in. long folded back return flange legs, fabricated from min. 0.0155 in. (0.0149 in., min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only.
DIETRICH INDUSTRIES INC —UltraSTEEL®.

3. **Batts and Blankets*** — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Min Stud Depth, Item 2	Min Stud Depth, Item 2A	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
2-1/2	2-3/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IP-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE
USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE
When Item 6B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 3) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 5. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 5.

4A. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5.
CANADIAN GYPSUM COMPANY —Type SHX.
UNITED STATES GYPSUM CO —Type FRX-G, SHX.
USG MEXICO S A DE C V —Type SHX.

5. **Fasteners —** (Not shown) — For use with Item 2 - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layers- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

5A. **Fasteners —** (Not shown) —For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8-1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems applied vertically:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Two layer systems applied horizontally:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

6. **Furring Channels —** (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.

6A. **Steel Framing Members (Not Shown)* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 6, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A.
b. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to studs (Item 2). Clips spaced max. 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC —Type RSIC-1.

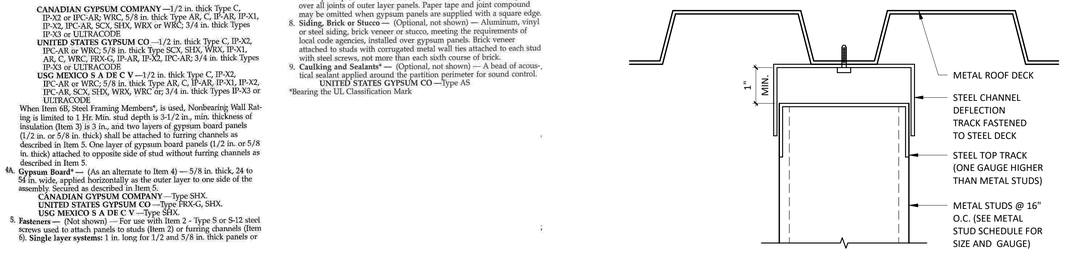
6B. **Steel Framing Members (Optional, Not Shown)* —** As an alternate to Item 6, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 4. Two layers of gypsum board attached to furring channels as described in Item 4. Not for use with Item 4A.
b. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

960 FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

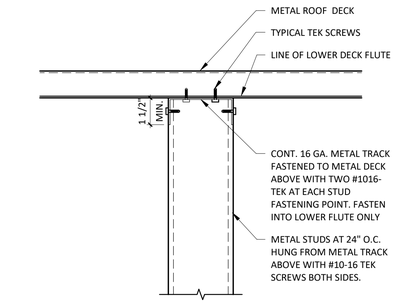
KINETICS NOISE CONTROL INC — Type Isomax

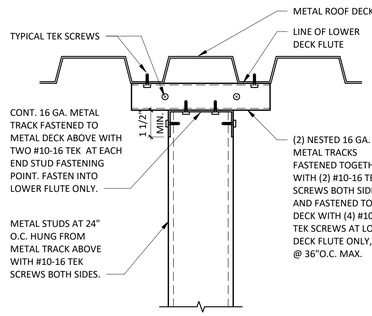
7. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
8. **Siding, Brick or Stucco —** (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
9. **Caulking and Sealants* —** (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO —Type AS

*Bearing the UL Classification Mark

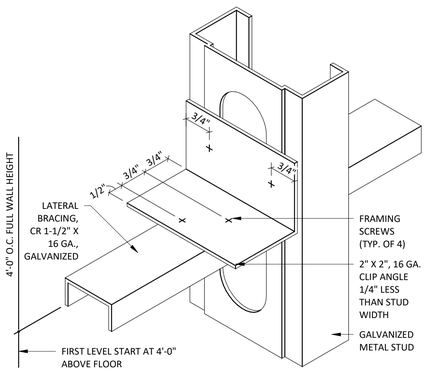


4 A501 — **U419**
12" = 1'-0"





3 A501 — **SOFFIT HANGING DETAIL**
3" = 1'-0"



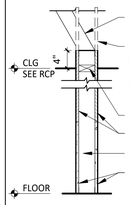
1 A501 — **LATERAL BRACING DETAIL @ PARTITION**
6" = 1'-0"

2 A501 — **DEFLECTION TRACK DETAIL @ PARTITION**
6" = 1'-0"

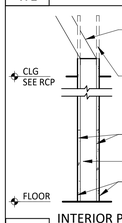
WALL TYPES

1. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED
2. REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES
3. REFER TO A120 FOR ALL WALL FINISHES

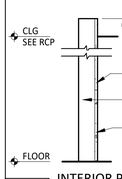
NOTE: ALL CONCEALED WOOD TO BE FRT RATED



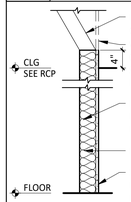
W1 — INTERIOR PARTITION



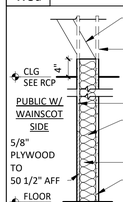
W3 — INTERIOR PARTITION



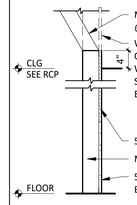
W3ax — INTERIOR PARTITION



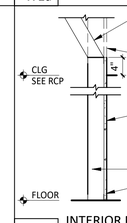
W5a — INTERIOR PARTITION



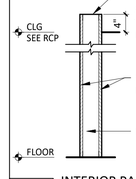
W14 — INTERIOR PARTITION



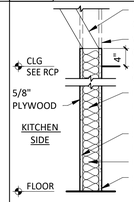
W1a — INTERIOR PARTITION



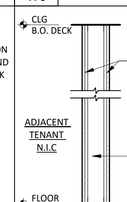
W3a — INTERIOR PARTITION



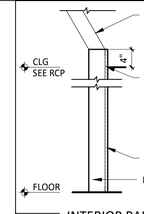
W4 — INTERIOR PARTITION



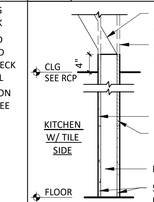
W6 — INTERIOR PARTITION



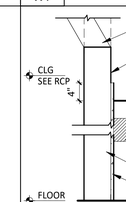
W19x — INTERIOR PARTITION



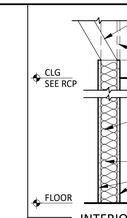
W4a — INTERIOR PARTITION



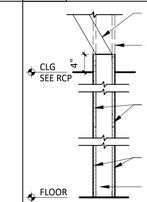
W7 — INTERIOR PARTITION



W26a — INTERIOR PARTITION



W5 — INTERIOR PARTITION



W10 — INTERIOR PARTITION

GENERAL NOTES

REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A110 FOR METAL STUD SIZE.

STUD SCHEDULE & NOTES

SIZE/TYPE	W/O HUNG SHELVING	W/ HUNG SHELVING
362S125-18	UP TO 12'-0"	
362S137-33	UP TO 16'-0"	UP TO 12'-0"
600S137-33	UP TO 22'-0"	UP TO 16'-0"
600S162-43	UP TO 26'-0"	UP TO 22'-0"

1. ALL HEIGHTS REFER TO UN-BRACED HEIGHTS.
2. ALL HEIGHTS BASED ON 16" O.C. SPACING.
3. BOTTOM TRACK TO BE SAME GAUGE AS STUD.
4. TOP TRACK TO BE ONE GAUGE HIGHER.

PARTITION NOTES

1. ALL METAL STUDS TO CONFORM TO LOCAL BUILDING CODES.
2. ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS UNLESS SPECIFICALLY DETAILED OTHERWISE.
3. ALL SUSPENDED WALLS SHALL HAVE GYP. BOARD WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
4. FIRE RETARDANT PLYWOOD MAY SUBSTITUTE FOR GYP. BOARD WHERE SO DIRECTED BY THE ARCHITECT.
5. ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAXIMUM ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER SCREWS OR WELDS. REFER TO DETAILS THIS SHEET.
6. ALL STUDS SHALL BE "CEE" STUDS WITH FLANGE STIFFENERS.
7. THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER'S RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
8. TYPICAL FASTENER:

A. STEEL STUDS TO STEEL STUDS OR TRACKS:
- 20 GAUGE - #8 - 18 X 1/2" TEKS WITH PHILIPS PAN HEAD - MIN. 2 PER CONNECTION
- 18/16 GAUGE - #10 - 16 X 3/4" TEKS WITH PHILIPS PAN HEAD - MIN. 3 PER CONNECTION

B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
- #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END

C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.)
- 0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN, LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C. FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.N.O.

D. PLYWOOD TO STEEL STUDS:
- #10 - 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD - 24" O.C. FILED, 12" O.C. PERIMETER

E. GYPSUM BOARD TO STEEL STUDS:
- #7 X 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 25 GAUGE OR 20 GAUGE STUDS
- #6 X 1-1/4" TYPE S-12 BUGLE HEAD SCREWS FOR 3/8" TO 5/8" TO 18 GAUGE OR 16 GAUGE STUDS OR TRACKS
- FIELD - 12" O.C. CEILINGS, 24" O.C. WALLS
- BUTT JOINTS 12" O.C.

F. STEEL STUDS OR TRACKS TO CONCRETE:
- 0.145" DIA. HILTI X-DNI FASTENER, 1" MIN. LENGTH, 2 ROWS AT 16" O.C.

Consultant:

HBC
HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
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fax: 212 - 647 - 0022

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STORE NO.: 31-4872
BEDFORD STUYVESANT,
1510 BROADWAY
BROOKLYN, NY 11221

Issue Record:

04/23/2024	LLD REVIEW SET
08/20/2024	PERMIT SET
05/02/2024	BID SET
10/23/2024	CONSTRUCTION SET

Revisions:

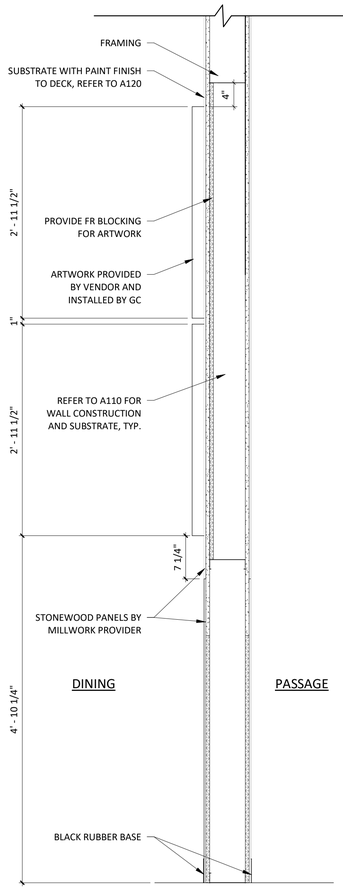
Drawn: M.T.W.
Checked: J.C.C.

Project No. 22111

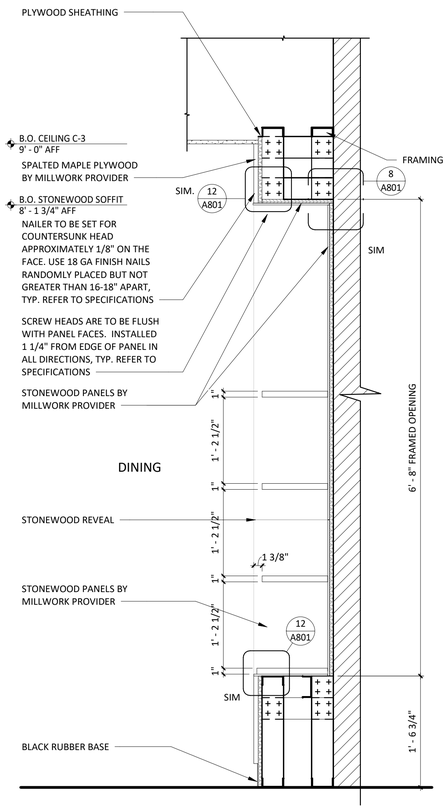
Contents: ARCHITECTURAL WALL TYPES

A501.00

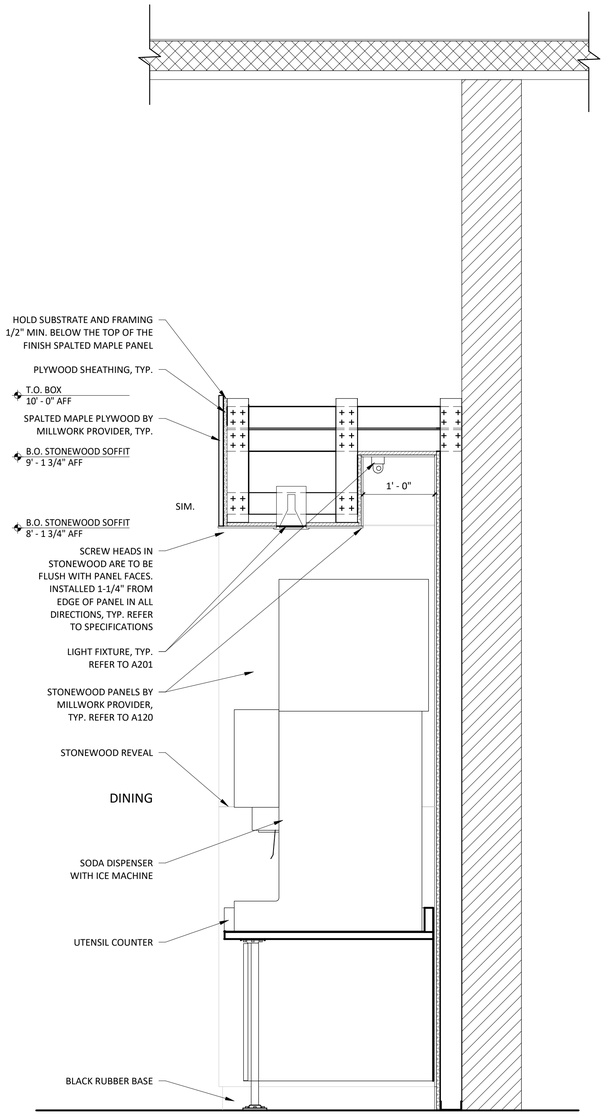
DOB NOW JOB #: B01050687-I1



3 A502 **ARTWORK SECTION @ STONEWOOD WAINSCOT**
1" = 1'-0"



2 A502 **MOPUS SECTION - PASS THRU**
1" = 1'-0"



1 A502 **UTENSIL SECTION**
1" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.: 22111

Contents:

INTERIOR SECTIONS

A502.00

DOB NOW JOB #: B01050687-I1

DOOR SCHEDULE

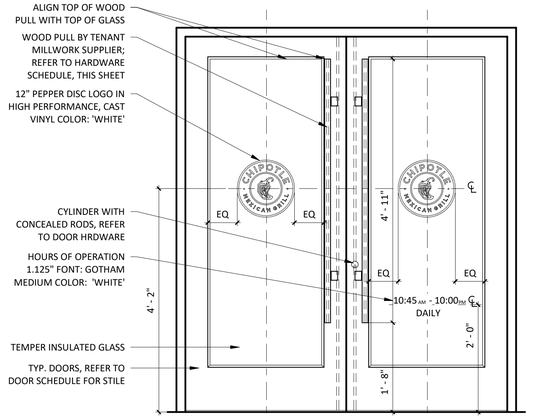
TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	New Construction	EXISTING	DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 0"	7' - 11"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1			1,2,4,5
2	PASSAGE	New Construction	NEW	HM REAR KITCHEN (STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3			1,4,6
3	BOH AREA	New Construction	EXISTING	HM REAR KITCHEN (STANDARD)	6' - 0"	6' - 10"	0' - 2"	D	D1/D2 (SEE A120)	2	H.M.	-	3			1,4,6
4	OFFICE	New Construction	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4			
5	UNISEX 1	New Construction	NEW	UNISEX 1 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	6			
6	UNISEX 2	New Construction	NEW	UNISEX 2 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	5			
7	UTILITY	New Construction	NEW	UTILITY ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	7			

REMARK NOTES

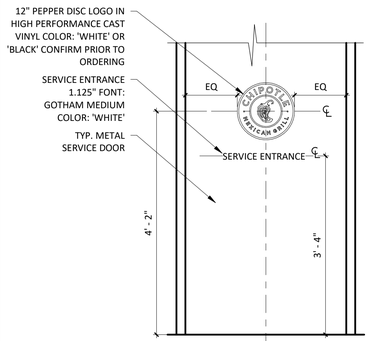
1. DOORS WITH REMARK #1 TO BE KEYED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS.
3. THERE IS TO BE NO EXTERIOR HOLE OR CYLINDER
4. USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD
5. BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT
6. REAR KITCHEN DOOR TO BE PAINTED 'BLACK' ON INTERIOR AND 'KNIGHT'S ARMOR' ON EXTERIOR U.N.O.

*IF STATUS IS "EXISTING" G.C TO DETERMINE CONDITION OF EXISTING HADWARE. IF HARDWARE IS IN POOR CONDITION, PROVIDE HARDWARE IN HARDWARE SCHEDULE. CONFIRM REPLACEMENT WITH CHIPOTLE CM.

TYPICAL EXTERIOR DOOR TYPES



MAIN/SINGLE ENTRY DOOR



SERVICE DOOR

HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH

(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH HARDWARE	1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(2)	PULL HARDWARE	1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-1B
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-72 (SIZE 72")
(2)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

SET 3 - REAR EXIT - SINGLE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUNM
(1)	THRESHOLD	REESE, MODEL S239A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL UG98B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	EXIT ALARM	TRINE, MODEL 206-3
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 240
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 4 - MANAGER'S OFFICE

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	LOCKSET	SCHLAGE, MODEL L9453L-06A-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	DOOR STOP	DON-JO, MODEL 1407-630, STAINLESS STEEL
(3)	DOOR SILENCERS	IVES, MODEL SR64
(1)	SECURITY WINDOW	AIR LOUVERS, MODEL VSL1212TEMPPAK SLIMLINE 12" X 12" X 1/4" LITE KIT (10" X 10" GLASS VISIBLE)

SET 5 - UNISEX 2 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

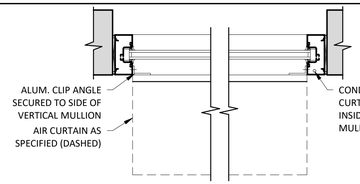
SET 6 - UNISEX 1 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

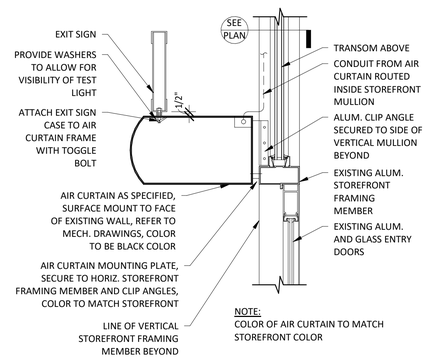
SET 7 - MAINTENANCE/UTILITY

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26D (06-8438)
(1)	LOCKSET	SCHLAGE, MODEL AL80BD SAT 626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	DOOR STOP	DON-JO, 1407-630
(1)	KICKPLATE	KP834-US32D
(1)	DOORSTOP	DON-JO, 1407-630

AIR CURTAIN DETAIL



TRANSOM PLAN DETAIL

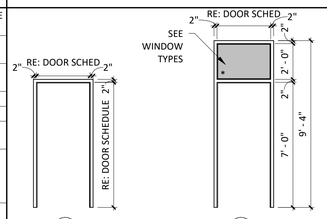


NOTE:
COLOR OF AIR CURTAIN TO MATCH STOREFRONT COLOR

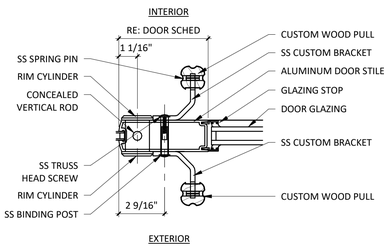
DOOR NOTES

1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN CASE OF AN EMERGENCY.
4. ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
5. SEE THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFO.
6. MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.
7. ALL FRAMES, DOORS AND HARDWARE TO BE FURNISHED BY TENANT HARDWARE SUPPLIER AND INSTALLED BY TENANT G.C. CALL PETE KLIMEK WITH TWIN CITY HARDWARE AT 763-535-4660 TO ARRANGE DELIVERY. STOREFRONT DOORS ARE TO BE PROVIDED BY G.C., STOREFRONT HARDWARE PROVIDED BY TENANT HARDWARE SUPPLIER.
8. THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9. ALL SUPPORT SIGNAGE PROVIDED BY TENANT'S SUPPORT SIGNAGE SUPPLIER.
10. ALL SUPPORT SIGNAGE INSTALLED BY G.C.
11. ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING

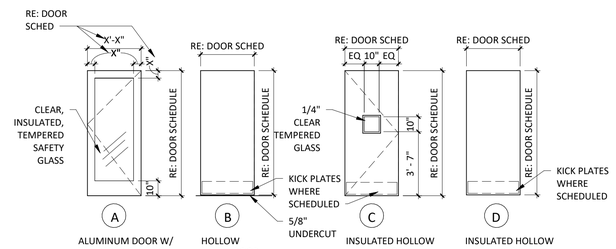
DOOR FRAMES



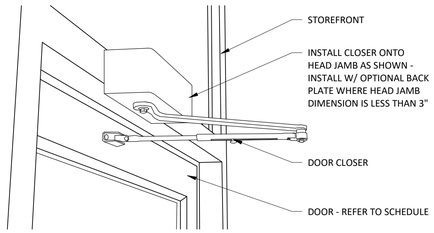
CUSTOM WOOD PULL



DOOR TYPES



DOOR CLOSER



TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.
22111

Contents:

DOOR & HARDWARE SCHEDULE

A601.00

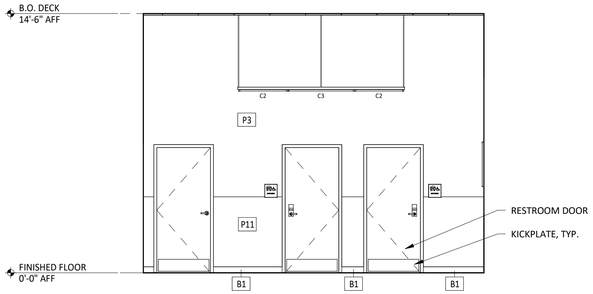
DOB NOW JOB #: B01050687-I1

ELEVATION LEGEND

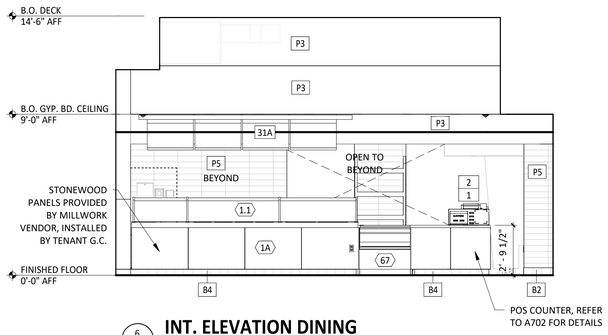
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

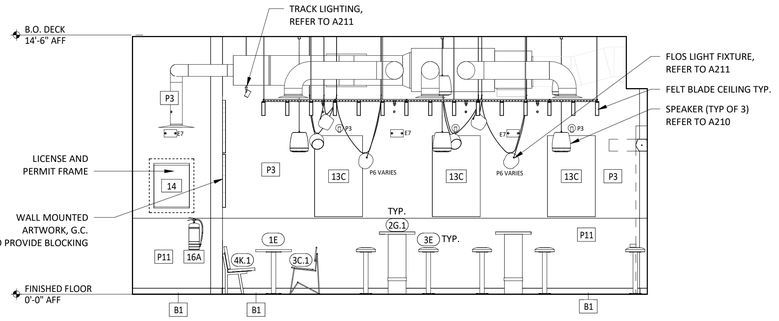
1. REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. REFER TO A120 FOR FINISH SCHEDULE.
3. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



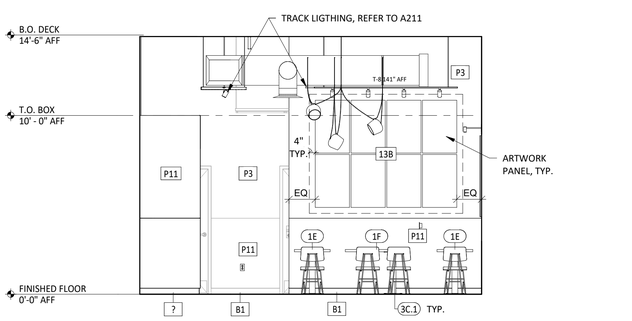
7 A701 **INT. ELEVATION DINING**
1/4" = 1'-0"



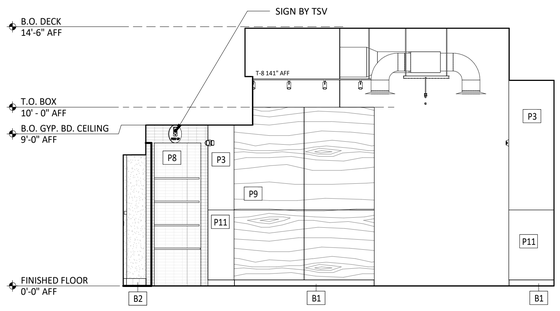
6 A701 **INT. ELEVATION DINING**
1/4" = 1'-0"



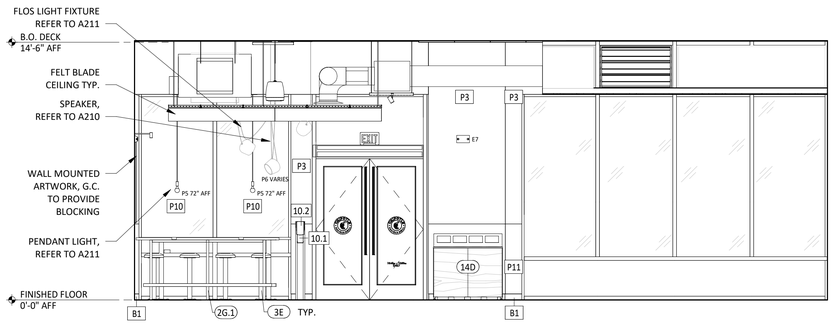
5 A701 **INT. ELEVATION DINING**
1/4" = 1'-0"



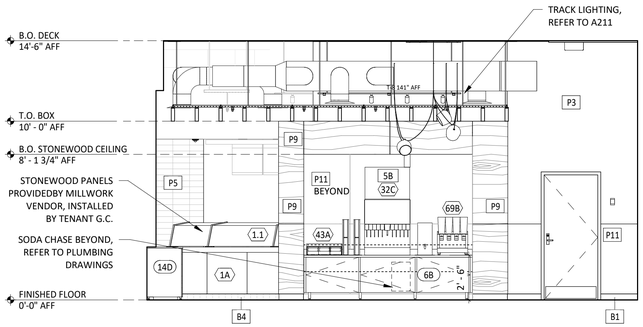
4 A701 **INT. ELEVATION DINING**
1/4" = 1'-0"



3 A701 **INT. ELEVATION DINING**
1/4" = 1'-0"



2 A701 **INT. ELEVATION DINING**
1/4" = 1'-0"



1 A701 **INT. ELEVATION DINING**
1/4" = 1'-0"

Consultant:

HBC

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Checked: J.C.C.

Project No.
22111

Contents:

ELEVATIONS - INTERIOR DINING

A701.00

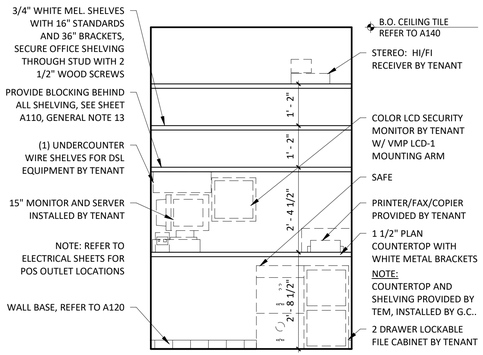
DOB NOW JOB #: B01050687-I1

ELEVATION LEGEND

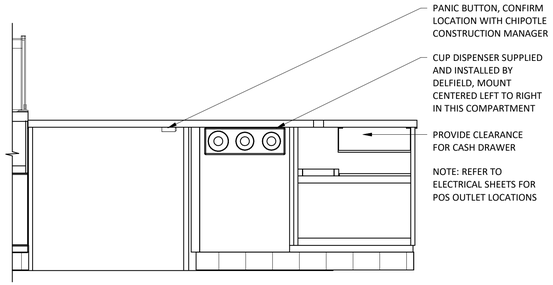
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

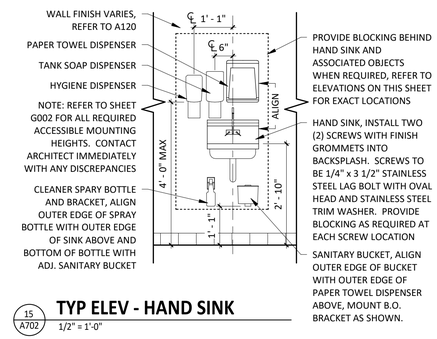


12/A702 **TYP ELEV - OFFICE SHELVING**
1/2" = 1'-0"

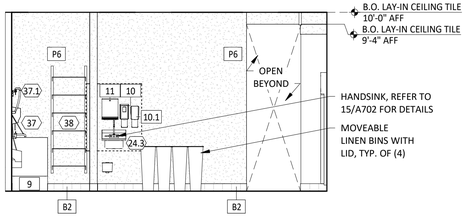


16/A702 **TYP. ELEV - POS**
3/4" = 1'-0"

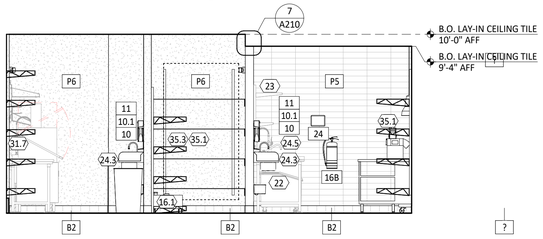
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



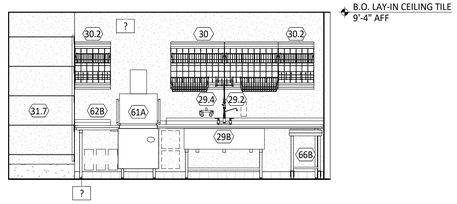
15/A702 **TYP ELEV - HAND SINK**
1/2" = 1'-0"



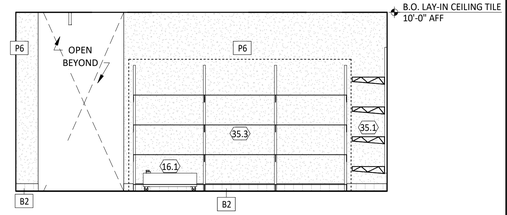
14/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



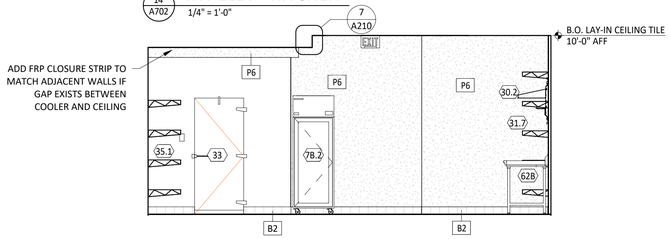
13/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



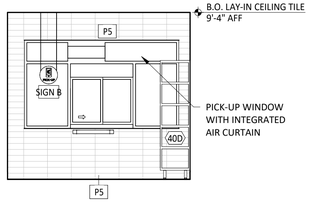
12/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



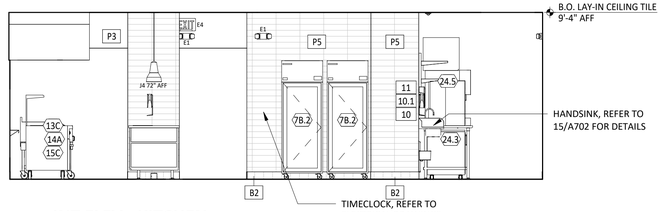
11/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



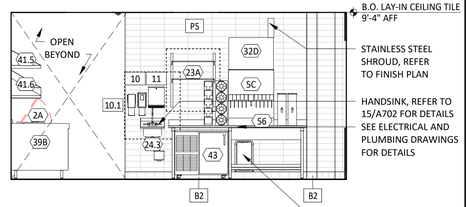
10/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



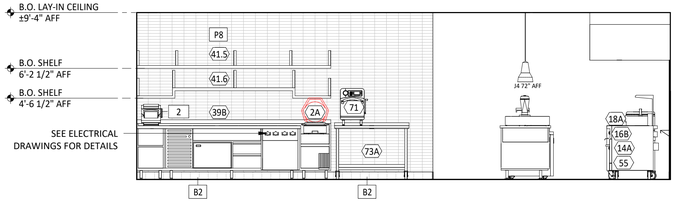
9/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



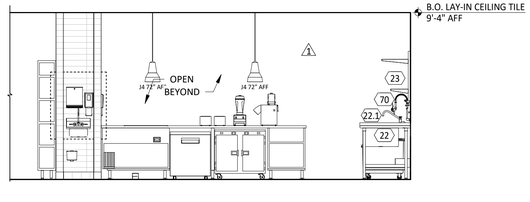
8/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



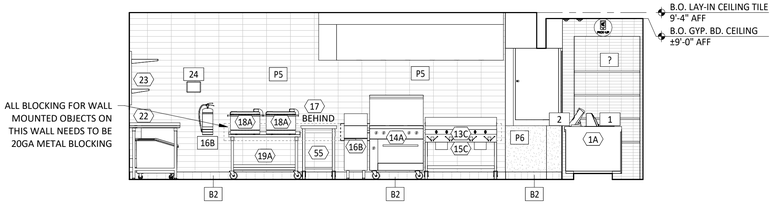
7/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



6/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



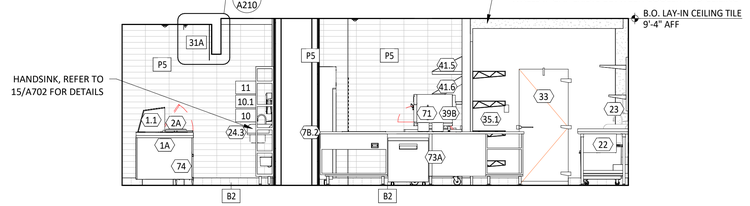
5/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



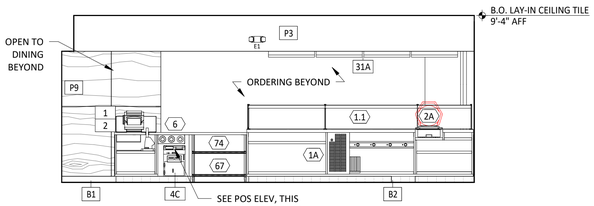
4/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



3/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



2/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



1/A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"

Consultant:

HBC

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Revisions:

1 05/21/2024	PER TABLES RELOCATION

Drawn: M.T.W.
Checked: J.C.C.

Project No.
22111

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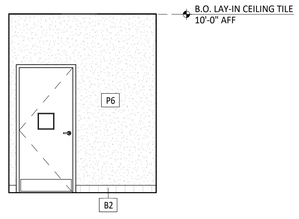
ELEVATIONS - INTERIOR KITCHEN

A702.00

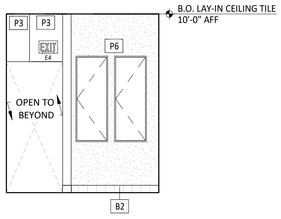
DOB NOW JOB #: B01050687-I1

GENERAL NOTES

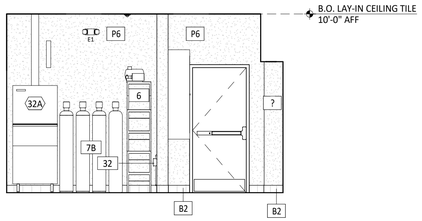
1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



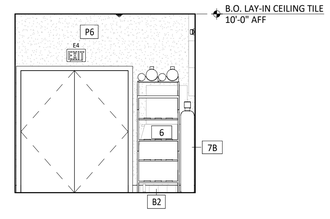
4 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



3 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



2 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



1 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"

Consultant:

HBC

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Project No.
22111

Contents:

ELEVATIONS - INTERIOR KITCHEN

A703.00

DOB NOW JOB #: B01050687-I1

RESTROOM ACCESSORY SCHEDULE

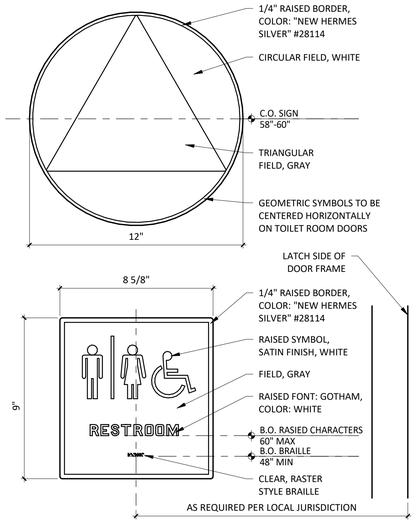
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC					40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
1D	Grab Bar - 48in	ASI	3501-48	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
3	Mirror	ASI	0600B 18x36	2	WA	GC					Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
4	Hand Dryer	Xlerator	XL-SB 110/120	2	WA	GC	•					Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC					50 1/4" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	0031	2	WA	GC					29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF
8	Utility Shelf	ASI	0692	2	WA	GC					46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC					Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	0473	2	WA	GC					Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
14	Restroom Hand Sink	Kohler	K-2084	2	GC	GC				•	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC			•			To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.
15	Hand Sanitizer Dispenser	Purell	ES8	2	WA	GC					Align T.O. Unit With T.O. Soap Dispenser	
16a	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB200-05	2	WA	GC					Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

GENERAL NOTES

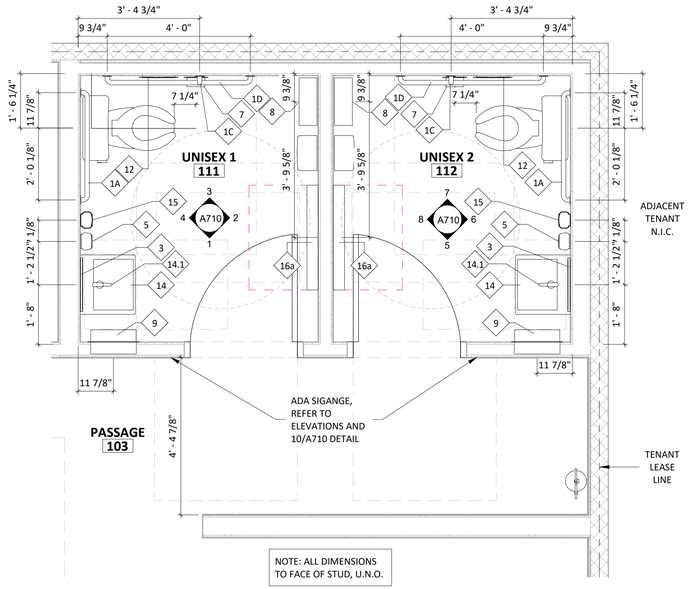
1.	ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
2.	REFER TO A802 FOR TILE NOTES.
3.	ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
4.	REFER TO A120 FOR FINISH SCHEDULE.
5	REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

ELEVATION LEGEND

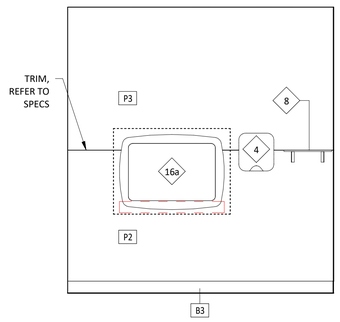
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



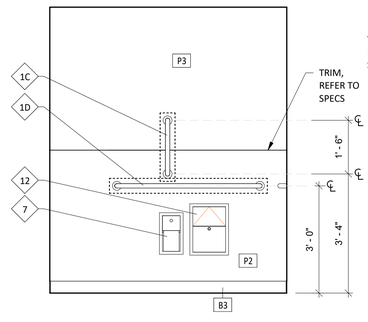
10 / A710 **TYP WASHROOM SIGN**
3" = 1'-0"



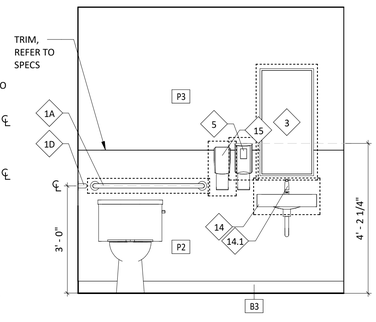
9 / A710 **ENLARGED PLAN - RESTROOM**
1/2" = 1'-0"



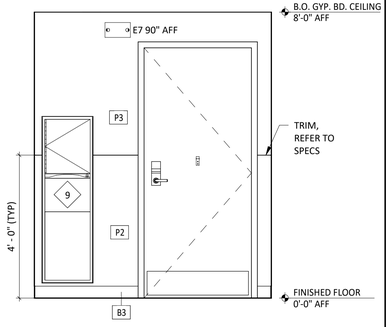
8 / A710 **UNISEX 2 RESTROOM - ELEV**
1/2" = 1'-0"



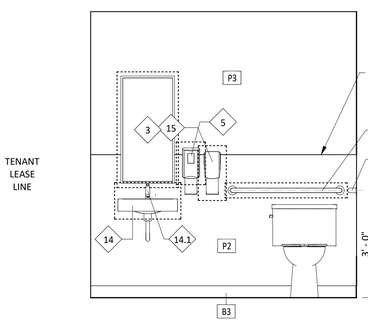
7 / A710 **UNISEX 2 RESTROOM - ELEV**
1/2" = 1'-0"



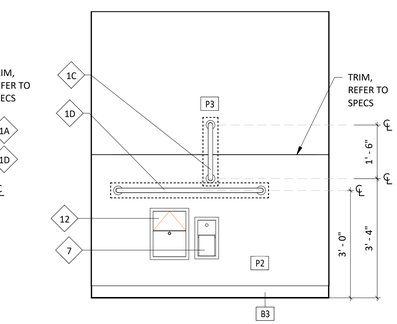
6 / A710 **UNISEX 2 RESTROOM - ELEV**
1/2" = 1'-0"



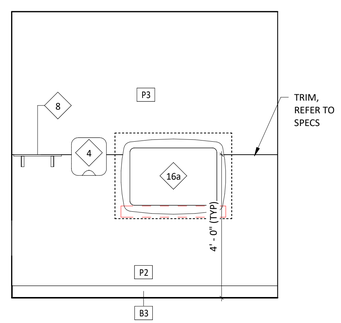
5 / A710 **UNISEX 2 RESTROOM - ELEV**
1/2" = 1'-0"



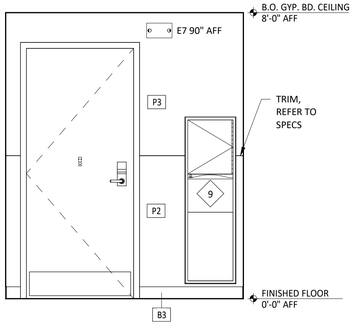
4 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"



3 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"



2 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"



1 / A710 **UNISEX 1 RESTROOM - ELEV**
1/2" = 1'-0"

Consultant:

HBC

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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

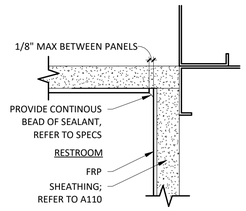
Project No.
22111

Contents:
RESTROOM DETAILS

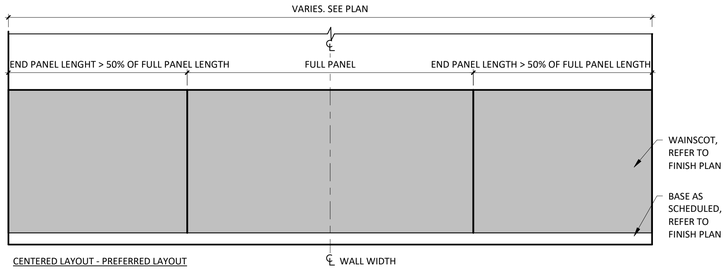
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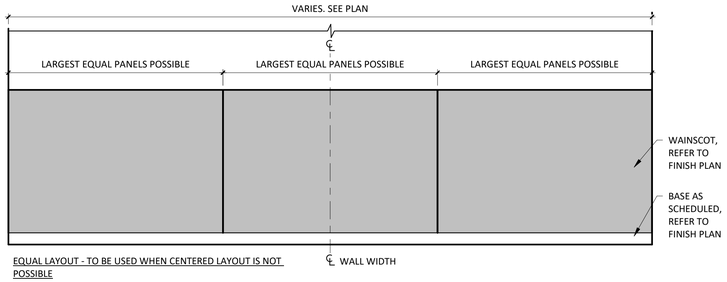
DOB NOW JOB #: B01050687-I1

NOTE: ALL CONCEALED WOOD TO BE FRT RATED



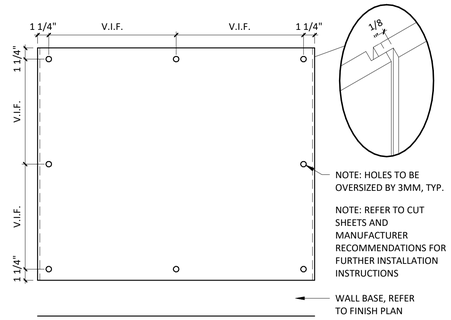
20 A801 **PLAN - RR FRP INSIDE CORNER**
6" = 1'-0"



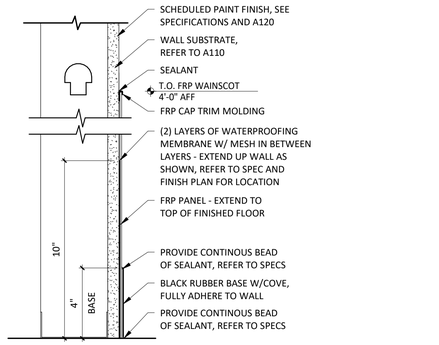


16 A801 **WAINSCOT LAYOUT**
1/2" = 1'-0"

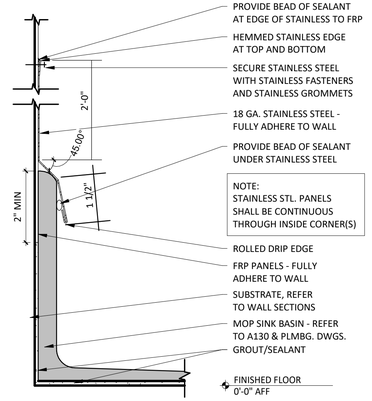
15 A801 **NOT USED**
N.T.S.



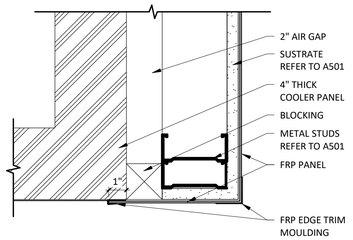
19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"



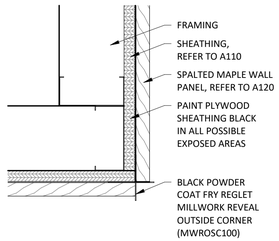
18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
3" = 1'-0"



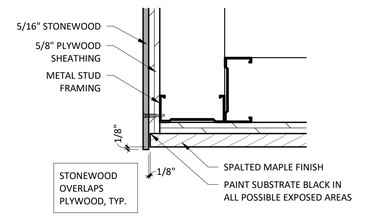
17 A801 **SECTION @ MOP SINK**
6" = 1'-0"



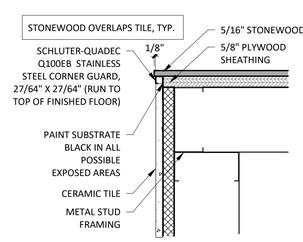
14 A801 **PLAN - FRP CLOSER @ COOLER**
3" = 1'-0"



13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"

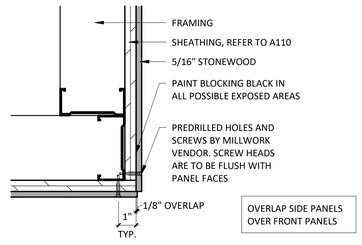


12 A801 **PLAN - WOOD TO STONEWOOD CORNER**
3" = 1'-0"

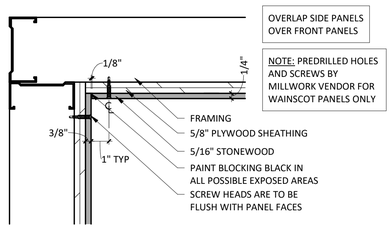


11 A801 **PLAN - STONEWOOD TO TILE CORNER**
3" = 1'-0"

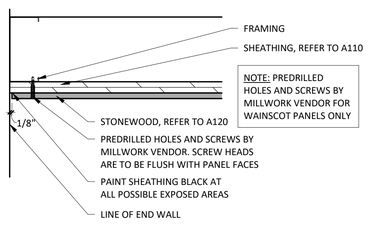
10 A801 **NOT USED**
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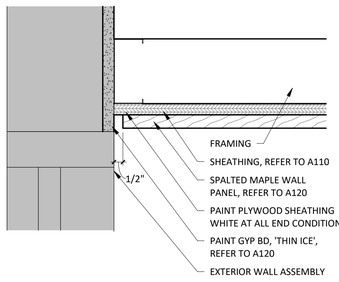
9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
3" = 1'-0"



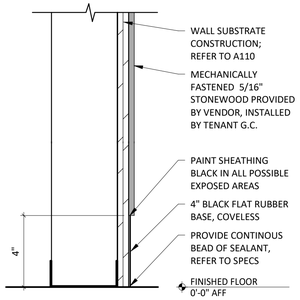
8 A801 **PLAN - STONEWOOD INSIDE CORNER**
3" = 1'-0"



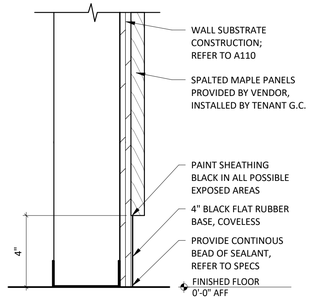
7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"



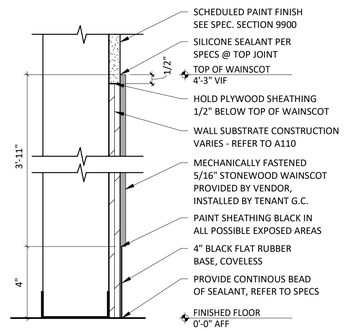
6 A801 **PLAN - WOOD END CONDITION**
3" = 1'-0"



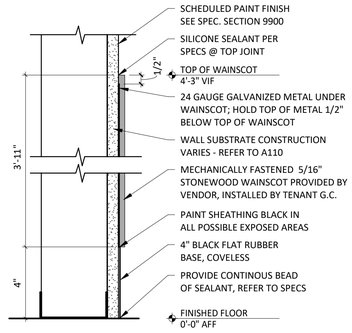
5 A801 **SECTION @ STONEWOOD**
3" = 1'-0"



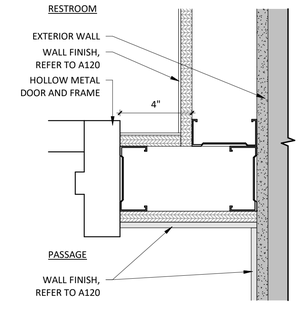
4 A801 **SECTION @ SPALTED MAPLE**
3" = 1'-0"



3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



2 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



1 A801 **PLAN - DOOR JAMB**
3" = 1'-0"

Consultant:

HBC

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Checked: J.C.C.

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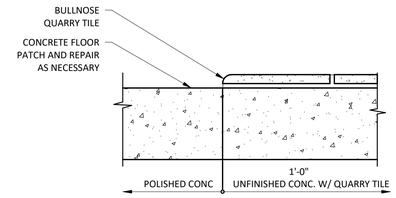
FINISH DETAILS

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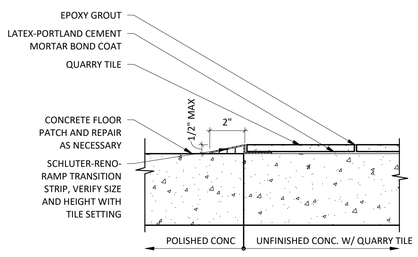
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GENERAL NOTES

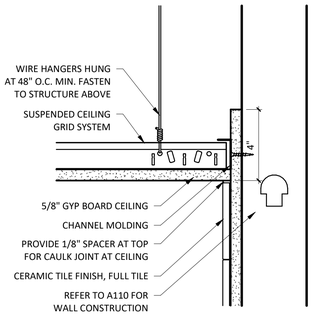
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
2.	IF REQUIRED TO CUT TILES, CONTRACTOR TO MEASURE OVERALL WALL WIDTH AND DETERMINE WHICH SOLUTION WILL ALLOW FOR THE GREATER THAN 25% TILE WIDTH AT WALL TERMINATIONS.
3.	UNLESS OTHERWISE NOTED, ALL WALL TILES SHOULD BE CENTERED ON THE WIDTH OF THE WALL PER DETAIL 1 OR 2.
4.	THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO A120 AND A201.



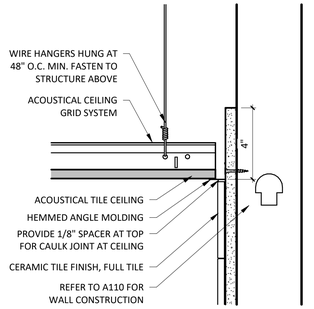
23 A802 **FLOOR TRANSITION @ READY TO DRINK**
3" = 1'-0"



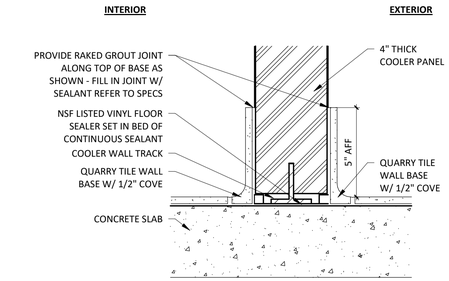
22 A802 **FLOOR TRANSITION W/ RAMP**
3" = 1'-0"



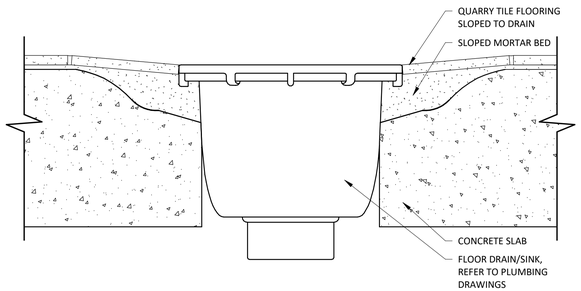
21 A802 **TILE DETAIL @ GYP BD CEILING**
3" = 1'-0"



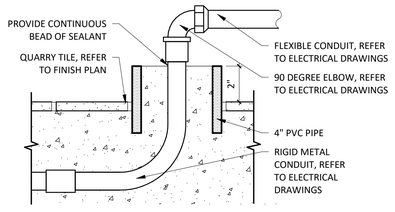
20 A802 **TILE DETAIL @ SUSPENDED CEILING**
3" = 1'-0"



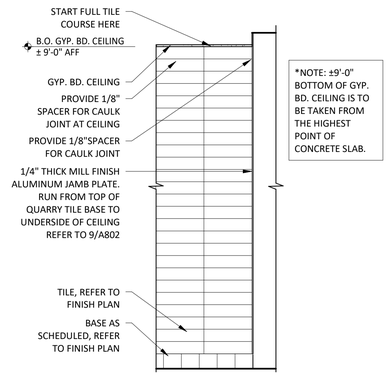
19 A802 **COOLER WALL @ QT**
3" = 1'-0"



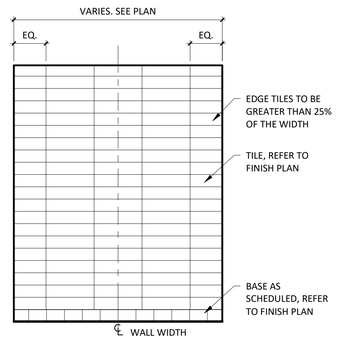
18 A802 **TYPICAL QT FLOOR DRAIN/SINK DETAIL**
3" = 1'-0"



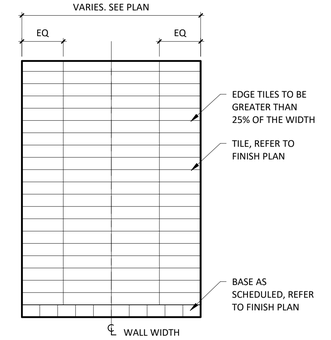
17 A802 **STUB SECTION DETAIL UNDER TABLES**
3" = 1'-0"



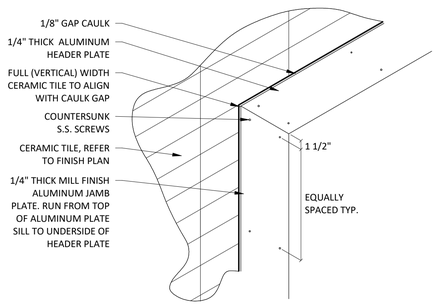
16 A802 **KITCHEN WALL ENDCAP TILE LAYOUT**
1/2" = 1'-0"



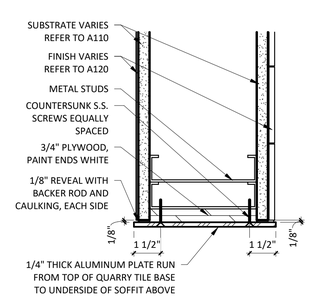
15 A802 **TILE CENTERED LAYOUT**
1/2" = 1'-0"



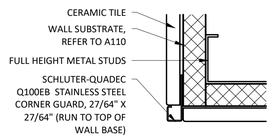
14 A802 **JOINT CENTERED LAYOUT**
1/2" = 1'-0"



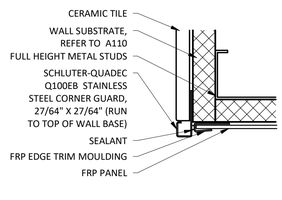
13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



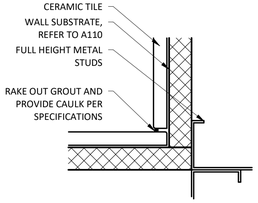
12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
3" = 1'-0"



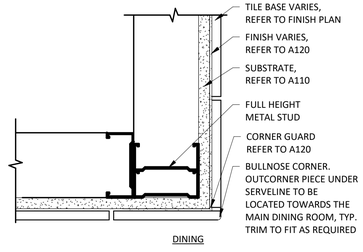
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"



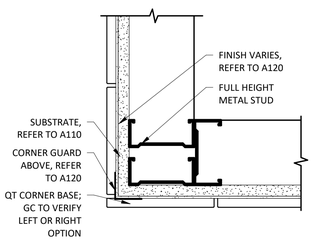
10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"



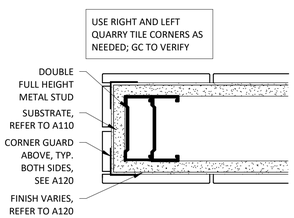
9 A802 **TILE TO TILE INSIDE CORNER**
6" = 1'-0"



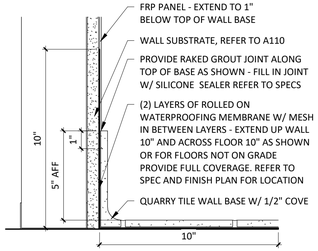
8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"



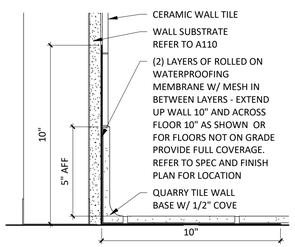
7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
3" = 1'-0"



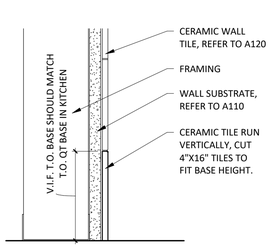
6 A802 **QT BASE - ENDCAP**
3" = 1'-0"



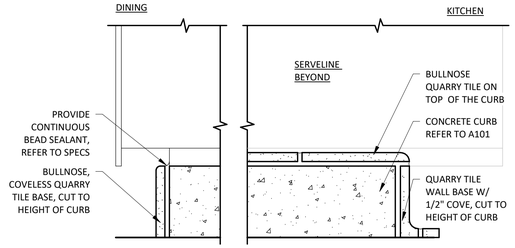
5 A802 **QT BASE @ FRP**
3" = 1'-0"



4 A802 **QT BASE @ CERAMIC TILE**
3" = 1'-0"



3 A802 **CERAMIC TILE BASE**
3" = 1'-0"



2 A802 **QT @ CURB**
3" = 1'-0"

1 A802 **QT @ CURB**
3" = 1'-0"

Consultant:

HBC

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BROOKLYN, NY 11221

Issue Record:

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08/20/2024	PERMIT SET
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Revisions:

Drawn: M.T.W.
Checked: J.C.C.

Project No.
22111

Contents:

TILE DETAILS

A802.00

DOB NOW JOB #: B01050687-I1

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2020 New York City Energy Conservation Code
Project Title: 22151_Chipotle_Broadway, Bedstuy_NY
Project Type: New Construction

Construction Site:
1510 BROADWAY
BROOKLYN, New York 11221

Owner/Agent:
New Jersey

Designer/Contractor:
MICHAEL WILSON
POLARIS CONSULTING ENGINEERS
214 WEST MAIN STREET
MOORESTOWN, New Jersey 08057
856-778-5400

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Entire space (Dining: Cafeteria/Fast Food)	2611	0.66	1723
		Total Allowed Watts =	1723

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Entire space (Dining: Cafeteria/Fast Food)				
LED: A1: 2x2: Other:	1	10	30	300
LED: B1: RECESSED CAN: Other:	1	8	17	136
LED: B2: RECESSED CAN: Other:	1	32	17	544
LED: B3: RECESSED CAN: Other:	1	2	12	24
LED: C1: 2' LINEAR: Other:	1	1	9	9
LED: C2: 3' LINEAR: Other:	1	12	12	144
LED: C3: 4' LINEAR: Other:	1	15	15	225
LED: H1: HOOD LIGHT: Other: Exemption:Lighting integral to equipment	1	6	15	Exempt
LED: J4: DECORATIVE PENDANT: Other:	1	2	9	18
LED: P3: SPOT LIGHT: Other:	1	3	20	60
LED: P5: PENDANT: Other:	1	2	5	10
LED: P6: DECORATIVE DINING PENDANT: Other:	1	2	30	60
LED: W1: WIC LIGHT: Other: Exemption:Lighting integral to equipment	1	4	29	Exempt
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
			Total Proposed Watts =	1710

Interior Lighting PASSES: Design 1% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 New York City Energy Conservation Code requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

ENERGY COMPLIANCE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH CHAPTER C4 OF THE 2020 NYCECC

Consultant:

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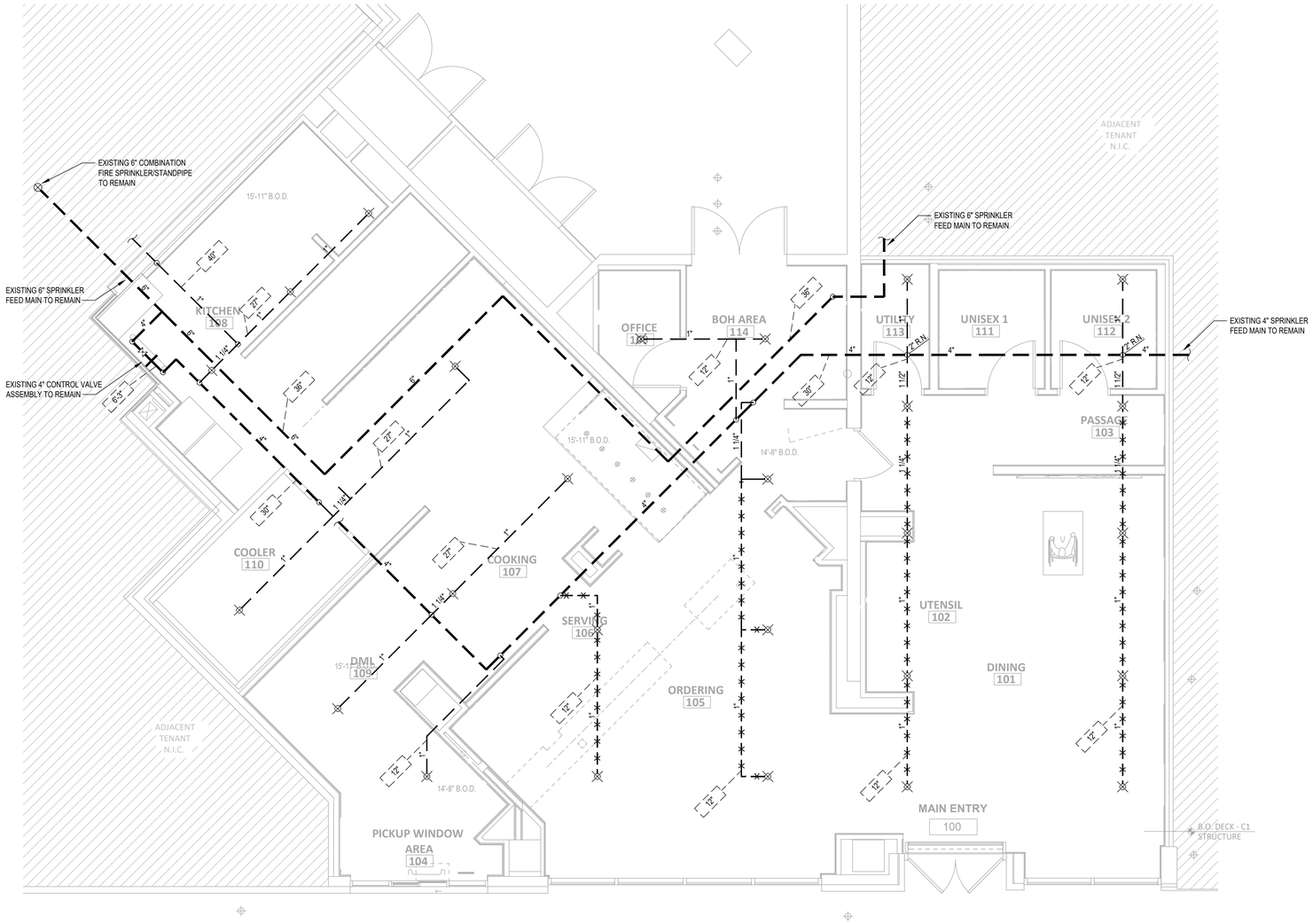
Project No.
22111

Contents:

ENERGY COMPLIANCE FORMS

EN101.00

DOB NOW JOB #: B01050687-I1



FIRE SPRINKLER PLAN - REMOVAL WORK

SCALE: 1/4" = 1'-0" FIN. FLOOR ELEV. = 100'-0"

DOB NOW APPLICATION # B01050687-S3

FIRE SPRINKLER COUNT

REMOVED FIRE SPRINKLERS - 28
NEW FIRE SPRINKLERS - 41

DOB/ FDNY PERMIT APPLICATION PROCESS NOTE

1. OWNER SHALL NOTIFY FDNY OF SPRINKLER DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

CONSTRUCTION NOTES

1. DURING CONSTRUCTION, FIRE SPRINKLER CONTRACTOR SHALL KEEP FIRE SPRINKLER SYSTEMS OUT OF CONSTRUCTION AREA FULLY CHARGED AND OPERATIONAL DURING BUSINESS HOURS.
2. COORDINATE REQUIRED SHUT-DOWNS OF THE EXISTING SYSTEMS WITH THE OWNER, INSURANCE UNDERWRITER, AND FIRE DEPARTMENT.
3. PROVIDE TEMPORARY VALVES, PIPING AND FITTINGS AS REQUIRED TO MAINTAIN SERVICE TO ADJACENT TENANT'S FIRE SPRINKLER SYSTEM DURING CONSTRUCTION.

SYMBOL KEY

	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	NEW PIPING
	CONNECT TO EXISTING PIPE AND/OR FITTING
	EXISTING SPRINKLER AND ARM-OVER TO BE REMOVED BACK TO OUTLET ON BRANCH LINE UNLESS SHOWN OTHERWISE
	EXISTING BRASS UPRIGHT TO REMAIN — ORD/5.6/QR
	NEW BRASS UPRIGHT — ORD/5.6/QR
	NEW CONCEALED WITH WHITE COVERPLATE — ORD/5.6/QR
	NEW CHROME RECESSED — INT/5.6/QR
	NEW DRY CHROME PENDENT ON 2-PIECE TELESCOPING ESCUTCHEON WITH FREEZER BOOT — INT/5.6/QR
	CENTER LINE OF SPRINKLER: ALIGN WITH LIGHTS AND/OR OTHER SPRINKLERS: COORDINATE WITH OTHER TRADES.
10'-5"	APPROXIMATE CENTER LINE ELEVATION OF EXISTING PIPE BELOW THE DECK
10'-6"	APPROXIMATE CENTER LINE ELEVATION OF NEW PIPE BELOW UNDERSIDE OF THE DECK
	RISE FROM LEFT TO RIGHT AND DROP FROM RIGHT TO LEFT
	NOT IN SCOPE

ALL ARM-OVERS TO SPRINKLERS ARE 1" DIAMETER

SHEET LIST

SPD-100.00 FIRE SPRINKLER PLAN - REMOVAL WORK
SP-100.00 FIRE SPRINKLER PLAN - NEW WORK
SP-200.00 FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM
SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS
SP-300.00 FEMA MAP

FIRE SPRINKLER REMOVAL NOTES

1. FIRE SPRINKLER CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE:
   - SHUT DOWN AND DRAINING OF EXISTING SYSTEM.
   - REMOVAL OF EXISTING PIPING, HANGERS, ETC. WHERE INDICATED ON THE PLANS.
2. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PIPE OR FITTINGS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THEIR WORK AT NO COST TO THE OWNER.

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215 WEST 40TH STREET, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-216-9596
www.codeconsultants.com

ENGINEER OF RECORD:
WILLIAM B. SMITH, PE
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PROFESSIONAL ENGINEERS, PC
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NEW YORK, NY 10018
PHONE: 212-216-9596
CORPORATE CERTIFICATE OF AUTHORITY NO. 41955

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10-29-2024

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Revisions:

Drawn: DCS
Checked: WMA

Project No.
22111

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SPD-100.00

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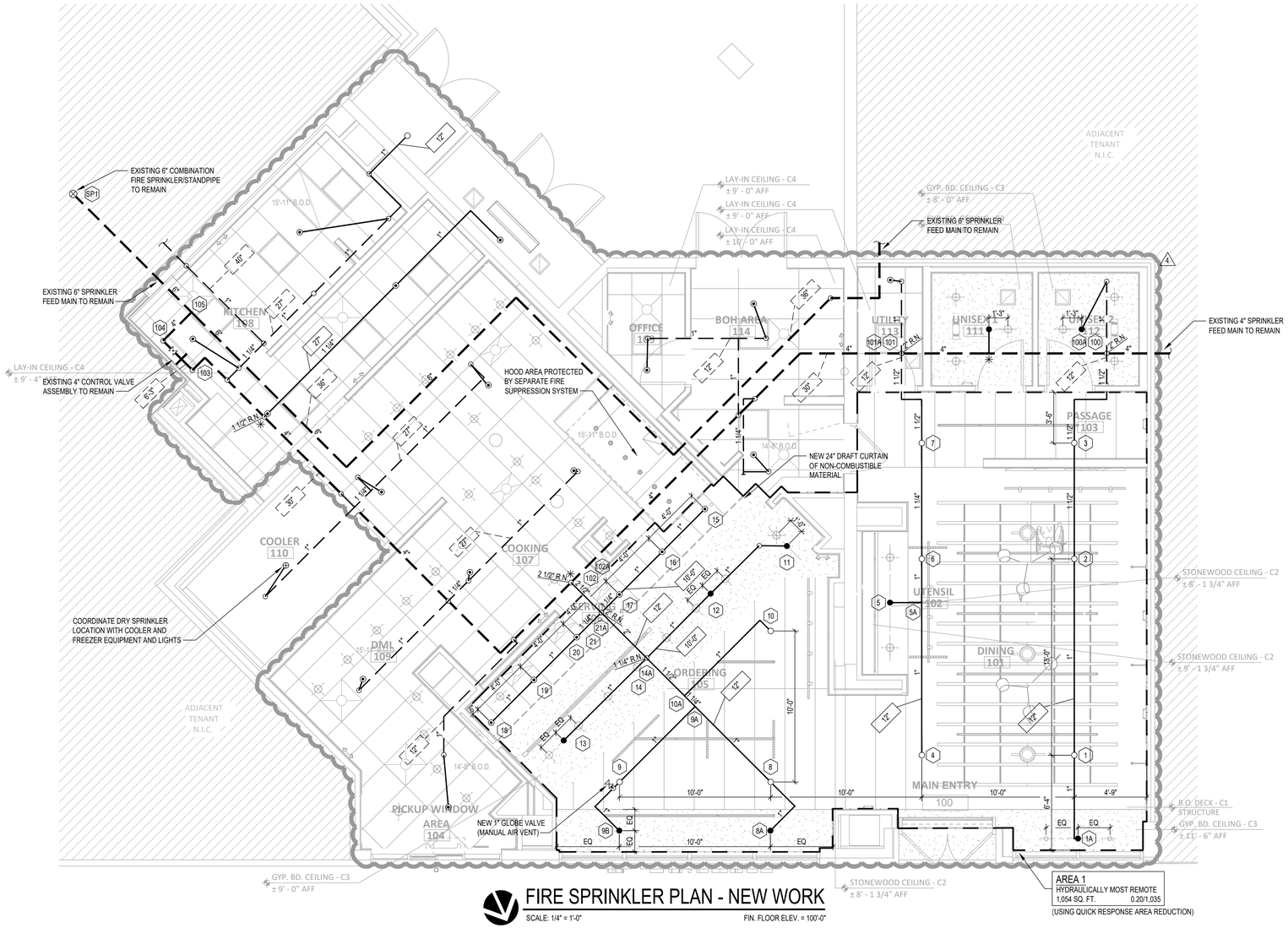
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SCALE: 1/4" = 1'-0" FIN. FLOOR ELEV. = 100'-0"

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10-29-2024
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Checked: WMA
Project No. 22111

Contents:
FIRE SPRINKLER PLAN - NEW WORK

SP-100.00

FIRE SPRINKLER SPECIFICATION

SECTION 15300 - FIRE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

A. RELATED DOCUMENTS: CONDITIONS OF THE CONTRACT, DIVISION 1 - GENERAL REQUIREMENTS AND DRAWINGS APPLY TO THE WORK OF THIS SECTION.

1.02 DESCRIPTION OF WORK

A. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, TESTING AND SERVICES NECESSARY FOR A COMPLETE AND OPERATIONAL REMODELED FIRE PROTECTION SYSTEM FOR THE PROPOSED CHIPOTLE SPACE. AS HEREINAFTER DESCRIBED AND AS SHOWN ON THE ENGINEERING DRAWINGS.

B. WORK SHALL BEGIN AT THE EXISTING FIRE SPRINKLER SYSTEM AND SHALL INCLUDE THE FOLLOWING:

1. REMODELED WET PIPE FIRE SPRINKLER SYSTEM FOR PROPOSED CHIPOTLE.
2. COORDINATION OF WORK AND SCHEDULES WITH OTHER TRADES.

C. INTERIOR WORK - PROVIDE THE FOLLOWING:

1. OVERHEAD PIPE, FITTINGS, HANGERS AND SPRINKLERS.
2. AIR VENT.

D. IT IS INTENDED THAT THE ENGINEERING DRAWINGS AND SPECIFICATION SHALL DESCRIBE AND PROVIDE FOR A WORKING INSTALLATION COMPLETE IN EVERY DETAIL AND ALL ITEMS NECESSARY FOR SUCH COMPLETE INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE ENGINEERING DRAWINGS.

1.03 REFERENCES

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS:

1. NEW YORK CITY BUILDING CODE - 2022 EDITION
2. NEW YORK CITY FIRE CODE - 2022 EDITION
3. NFPA 13, SPRINKLER SYSTEMS - 2016 EDITION

1.04 SYSTEM DESCRIPTION

A. REMODELED FIRE SPRINKLER SYSTEM DESIGN CRITERIA SHALL BE STRICTLY PER THIS SPECIFICATION.

B. REMODELED FIRE SPRINKLER SYSTEM TO PROVIDE FIRE PROTECTION FOR THE AREAS INDICATED ON THE ENGINEERING DRAWINGS.

C. INTERFACE REMODELED FIRE SPRINKLER SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEMS.

D. WATER CURTAIN (ORDINARY HAZARD GROUP 2 WET PIPE FIRE SPRINKLER SYSTEM):

- TEMPERATURE CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - ORD / 5.6 / SR

E. MAINTAIN THE EXISTING PIPE SCHEDULE FOR ALL NEW PIPE.

F. WATER SUPPLY:

FIRE PROTECTION WATER SUPPLY HAS BEEN OBTAINED FROM A HYDRANT FLOW TEST PERFORMED ON 8/16/2022 AT 3:21 PM EST BY NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE WATER SUPPLY SHALL BE CONSIDERED EFFECTIVE AT THE POINT OF CONNECTION TO THE PUBLIC WATER SUPPLY. THE APPROXIMATE WATER SUPPLY ELEVATION IS EVEN WITH THE FINISH FLOOR. NO SUBSTITUTIONS OF WATER SUPPLY DATA OR ITS EFFECTIVE POINT WILL BE ALLOWED.

ACTUAL STATIC: 49 PSI
ACTUAL RESIDUAL: 48 PSI
ACTUAL FLOW: 500 GPM

G. SPRINKLER SPACING SHALL BE AS SHOWN ON THE ENGINEERING DRAWINGS.

H. EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.

I. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN MAIN OR BRANCH LINE PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS WHETHER OR NOT SHOWN ON THE ENGINEERING DRAWINGS.

J. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.

K. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE ENGINEERING DRAWINGS WILL BE USED.

1.05 QUALITY ASSURANCE

A. INSTALLER QUALIFICATIONS:

1. INSTALLER'S RESPONSIBILITIES INCLUDE PREPARING SHOP DRAWING SUBMITTAL, FABRICATING AND INSTALLING SPRINKLER SYSTEMS. BASE CALCULATIONS ON WATER SUPPLY COORDINATES PROVIDED HEREIN.

B. INSTALLER SHALL BE STATE AND LOCALLY LICENSED.

C. EQUIPMENT AND COMPONENTS NOT SPECIFICALLY SPECIFIED SHALL BE LISTED BY UNDERWRITERS LABORATORIES INC. FOR FIRE PROTECTION SYSTEMS INSTALLATION.

D. ALL FIRE SPRINKLER SYSTEM COMPONENTS SHALL BE INSTALLED FREE OF ANY RUST, CORROSION OR VISIBLE DAMAGE. ALL ITEMS NOT COMPLYING WITH THIS REQUIREMENT SHALL BE REPLACED WITHOUT COST TO THE OWNER.

1.06 PROJECT CONDITIONS

A. INTERRUPTION OF EXISTING SPRINKLER SERVICE: DO NOT INTERRUPT SPRINKLER SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY SPRINKLER SERVICE ACCORDING TO REQUIREMENTS INDICATED:

1. NOTIFY CONSTRUCTION MANAGER IN ADVANCE OF PROPOSED INTERRUPTION OF SPRINKLER SERVICE.
2. DO NOT PROCEED WITH INTERRUPTION OF SPRINKLER SERVICE WITHOUT CONSTRUCTION MANAGER'S WRITTEN PERMISSION.
3. PROVIDE TEMPORARY PIPING, FITTINGS AND VALVES AS REQUIRED TO MAINTAIN SPRINKLER SERVICE.

1.07 REGULATORY REQUIREMENTS

A. ALL WORK SHALL MEET THE REQUIREMENTS OF SECTION 1.03.

FIRE SPRINKLER SPECIFICATION (CONT.)

B. THE FIRE SPRINKLER CONTRACTOR SHALL NOT PURSUE ANY APPROVALS OR INTERPRETATIONS OF CCI'S CONSTRUCTION DOCUMENTS EXCEPT THROUGH CCI.

C. SPRINKLER PIPING SHALL NOT BE CONCEALED WHERE IT IS INACCESSIBLE UNLESS IT IS FIRST INSPECTED AND ACCEPTED BY A REPRESENTATIVE OF THE AUTHORITY HAVING JURISDICTION.

D. ANY WORK PERFORMED PRIOR TO THE SATISFACTORY REVIEW BY CCI AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION AND THE INSURANCE UNDERWRITER WILL BE SOLELY AT THE FIRE SPRINKLER CONTRACTOR'S RISK.

E. THE SYSTEM WILL NOT BE ACCEPTABLE UNTIL FINAL TESTING AND RECEIPT OF THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE HAS BEEN OBTAINED.

1.08 SUBMITTALS

A. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE ENGINEERING DRAWINGS ARE 100% CAD. THE HYDRAULIC CALCULATIONS WERE PREPARED USING HASS. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY. UTILIZATION OF THESE DOCUMENTS FOR THE DEVELOPMENT OF SHOP DRAWINGS AND SUBMITTALS DOES NOT RELIEVE THE FIRE SPRINKLER CONTRACTOR FROM ANY OF HIS RESPONSIBILITIES REQUIRED HEREIN.

B. SUBMIT THE FOLLOWING:

1. SHOP DRAWINGS. SUBMIT IN .PDF FORMAT OR TWO (2) HARD COPIES OF EACH DRAWING. DRAWINGS WILL BE RETURNED IN THE SAME FORMAT RECEIVED. SUBMITTAL MUST BE COMPREHENSIVE OF ENTIRE PROJECT, COMPLETE IN ALL DETAIL AND THE SAME SCALE AS THE ENGINEERING DRAWINGS.
2. MANUFACTURER'S LITERATURE ON ALL SYSTEM EQUIPMENT. SUBMIT IN .PDF FORMAT OR TWO (2) HARD COPIES OF THE LITERATURE. LITERATURE WILL BE RETURN IN THE SAME FORMAT AS RECEIVED. LITERATURE SHALL CLEARLY IDENTIFY EXACTLY WHAT COMPONENTS ARE BEING PROVIDED WHICH SHALL INCLUDE: FINISH, SIZE, TYPE, OPTIONS, ETC. LITERATURE WHICH IS NOT CLEARLY IDENTIFIED WILL BE REJECTED.

C. CCI WILL REVIEW THIS SUBMITTAL FOR CONSISTENCY WITH CCI'S CONSTRUCTION DOCUMENTS.

D. AFTER THE SATISFACTORY REVIEW BY CCI, PROVIDE SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION AND THE INSURANCE UNDERWRITER FOR APPROVAL.

E. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING, IN WRITING, TO ANY COMMENTS FROM THE AUTHORITY HAVING JURISDICTION OR THE INSURANCE UNDERWRITER WITHIN TEN (10) WORKING DAYS AFTER THE RECEIPT OF THEIR COMMENTS. COPIES OF THE RESPONSE SHALL BE SENT TO THE GENERAL CONTRACTOR AND CCI.

1.09 AS-BUILT DRAWINGS

A. PROVIDE AS-BUILT DRAWINGS IN ACCORDANCE WITH REQUIREMENTS OF THE GENERAL CONDITIONS OF THE CONTRACT AND NFPA 13.

1.10 OPERATION AND MAINTENANCE DATA

A. PROVIDE OPERATING AND MAINTENANCE INSTRUCTIONS TO THE OWNER IN ACCORDANCE WITH REQUIREMENTS OF THE GENERAL CONDITIONS OF THE CONTRACT AND NFPA 13.

1.11 WARRANTY

A. REPAIR ALL DEFECTIVE WORKMANSHIP OR REPLACE ALL DEFECTIVE MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. WORKMANSHIP OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE REPLACED WITHOUT COST TO THE OWNER.

PART 2 - PRODUCTS

2.01 PIPING

A. UNDERGROUND PIPING: NONE.

B. OVERHEAD PIPE: PER LOCAL REQUIREMENTS AND NFPA 13. ALL PIPE SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) EQUAL TO OR GREATER THAN 1.00. REFER TO THE CURRENT UL FIRE PROTECTION EQUIPMENT DIRECTORY - STEEL SPRINKLER PIPE FOR ACCEPTABLE MANUFACTURERS, SIZES, AND JOINING METHODS.

C. ALL NEW BRANCH LINES SHALL HAVE HYDRAULIC CHARACTERISTICS EQUAL TO OR GREATER THAN SCHEDULE 40 PIPE.

2.02 JOINING OF PIPE AND FITTINGS

A. ALL PIPE SHALL BE JOINED IN ACCORDANCE WITH NFPA 13 AND MANUFACTURER'S RECOMMENDATIONS.

B. FITTINGS SHALL BE 175 PSI SCREWED OR FLANGED BLACK CAST IRON OR APPROVED EQUAL SUCH AS MECHANICAL, GROOVED, PLAIN END OR WELDED CONNECTIONS. WHERE GROOVED FITTINGS AND COUPLINGS ARE USED TOGETHER, THEY SHALL BE OF THE SAME MANUFACTURER.

C. BUSHINGS SHALL NOT BE USED.

D. FLEXIBLE COUPLINGS SHALL BE IDENTIFIED ON THE SHOP DRAWINGS.

2.03 HANGERS AND SLEEVES

A. SLEEVES SHALL BE SET FOR ALL PIPES PASSING THROUGH CONCRETE FLOORS, FOUNDATIONS AND MASONRY WALLS.

B. PROVIDE PRIMED ESCUTCHEON PLATES AT ALL WALL PENETRATIONS WHERE THE HOLE WOULD OTHERWISE BE EXPOSED TO VIEW.

C. ALL HANGERS TO BE OF APPROVED MATERIALS AND SPACED IN ACCORDANCE WITH NFPA 13 AND THE PIPING MANUFACTURER'S SPECIFICATIONS.

2.04 SPRINKLERS

A. TYPES:

1. CHROME RECESSED - GLASS BULB QUICK RESPONSE RECESSED SPRINKLER WITH POLISHED CHROME 2-PIECE ESCUTCHEON.
2. WHITE CONCEALED PENDENT - GLASS BULB QUICK RESPONSE CONCEALED SPRINKLER WITH WHITE ESCUTCHEON

FIRE SPRINKLER SPECIFICATION (CONT.)

3. BRASS UPRIGHT - GLASS BULB QUICK RESPONSE UPRIGHT SPRINKLER.
4. CHROME DRY PENDENT - GLASS BULB QUICK RESPONSE DRY PENDENT SPRINKLER WITH POLISHED CHROME 2-PIECE TELESCOPING ESCUTCHEON WITH FREEZER BOOT.

B. ACCEPTABLE MANUFACTURERS: GLOBE, RELIABLE, TYCO, VICTAULIC AND VIKING.

C. ONLY SPRINKLERS MANUFACTURED AFTER JANUARY 1, 2024 WILL BE ACCEPTED FOR USE.

D. ONLY SPRINKLERS MANUFACTURED UTILIZING BELLEVILLE SPRING SEALS WILL BE ACCEPTABLE FOR USE.

E. PROVIDE AT THE FIRE SPRINKLER ROOM SIX (6) HEADS IN THE SPARE SPRINKLER CABINET STOCKED WITH SPRINKLERS AND ESCUTCHEON ASSEMBLIES PROPORTIONATE TO THOSE PROVIDED IN THE BUILDING AND ALL NECESSARY SPRINKLER WRENCHES.

F. IF FLEXHEAD, OR A SIMILAR PRODUCT, IS USED, HYDRAULIC CALCULATIONS SHALL BE REVISED TO INCLUDE THE ADDITIONAL FRICTION LOSS, AND PIPE SIZES ADJUSTED IF REQUIRED AT NO ADDITIONAL COST.

2.05 SIGNS

A. APPROVED ENAMELED METAL SIGNS SHALL BE SECURELY ATTACHED AT MAIN DRAIN, AUXILIARY DRAIN ALARM TEST CONNECTION AND CONTROL VALVES.

B. PROVIDE A PERMANENTLY ATTACHED PLACARD INDICATING HYDRAULIC DESIGN INFORMATION IN ACCORDANCE WITH NFPA 13 AND PLACE IN THE FIRE SPRINKLER ROOM. A MOCK-UP OF PLACARD SHALL BE INCLUDED WITH EQUIPMENT LITERATURE.

C. PROVIDE A PERMANENTLY ATTACHED PLACARD INDICATING GENERAL INFORMATION IN ACCORDANCE WITH NFPA 13 AND PLACED IN THE FIRE SPRINKLER ROOM. A MOCK-UP OF PLACARD SHALL BE INCLUDED WITH EQUIPMENT LITERATURE.

PART 3 - EXECUTION

3.01 COORDINATION WITH OTHER TRADES

A. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCE.

3.02 PAINTING AND PATCHING

A. PAINTING OF SPRINKLER PIPING IS NOT INCLUDED IN THIS CONTRACT.

B. HOLES IN WALLS OR FLOORS CUT DURING THE PERFORMANCE OF THIS WORK SHALL BE PATCHED IF THE HOLES CANNOT BE COVERED BY STANDARD ESCUTCHEON PLATES SO AS TO COMPLETELY CONCEAL THE CUTS WHERE THEY WOULD OTHERWISE BE EXPOSED TO VIEW.

C. FIRE STOP ALL PENETRATIONS OF FIRE RATED ASSEMBLIES.

3.03 SYSTEM TESTS

A. HYDROSTATICALLY TEST ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13.

B. TEST SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION AND OWNER'S AUTHORIZED AGENT.

C. PRELIMINARY TESTING PROCEDURES SHALL BE CONDUCTED AS MENTIONED ABOVE TO ASSURE PROPER OPERATION WHEN THE FINAL TESTING IS PERFORMED.

D. THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES AS SHOWN IN NFPA 13 MUST BE COMPLETED AND SUBMITTED TO THE ENGINEER BEFORE FINAL ACCEPTANCE MAY BE GIVEN.

E. WHEN THE SYSTEMS ARE INITIALLY COMMISSIONED (FILLED WITH WATER), USE THE MANUAL AIR VENT AND HOSE END ADAPTER AT THE END OF THE SYSTEM, ATTACH A HOSE TO THE EXTERIOR AND OPEN THE VALVE UNTIL WATER IS DISCHARGED THROUGH THE HOSE.

END OF SECTION

SHEET LIST

SPD-100.00 FIRE SPRINKLER PLAN - REMOVAL WORK
SP-100.00 FIRE SPRINKLER PLAN - NEW WORK
SP-200.00 FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM
SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS
SP-300.00 FEMA MAP

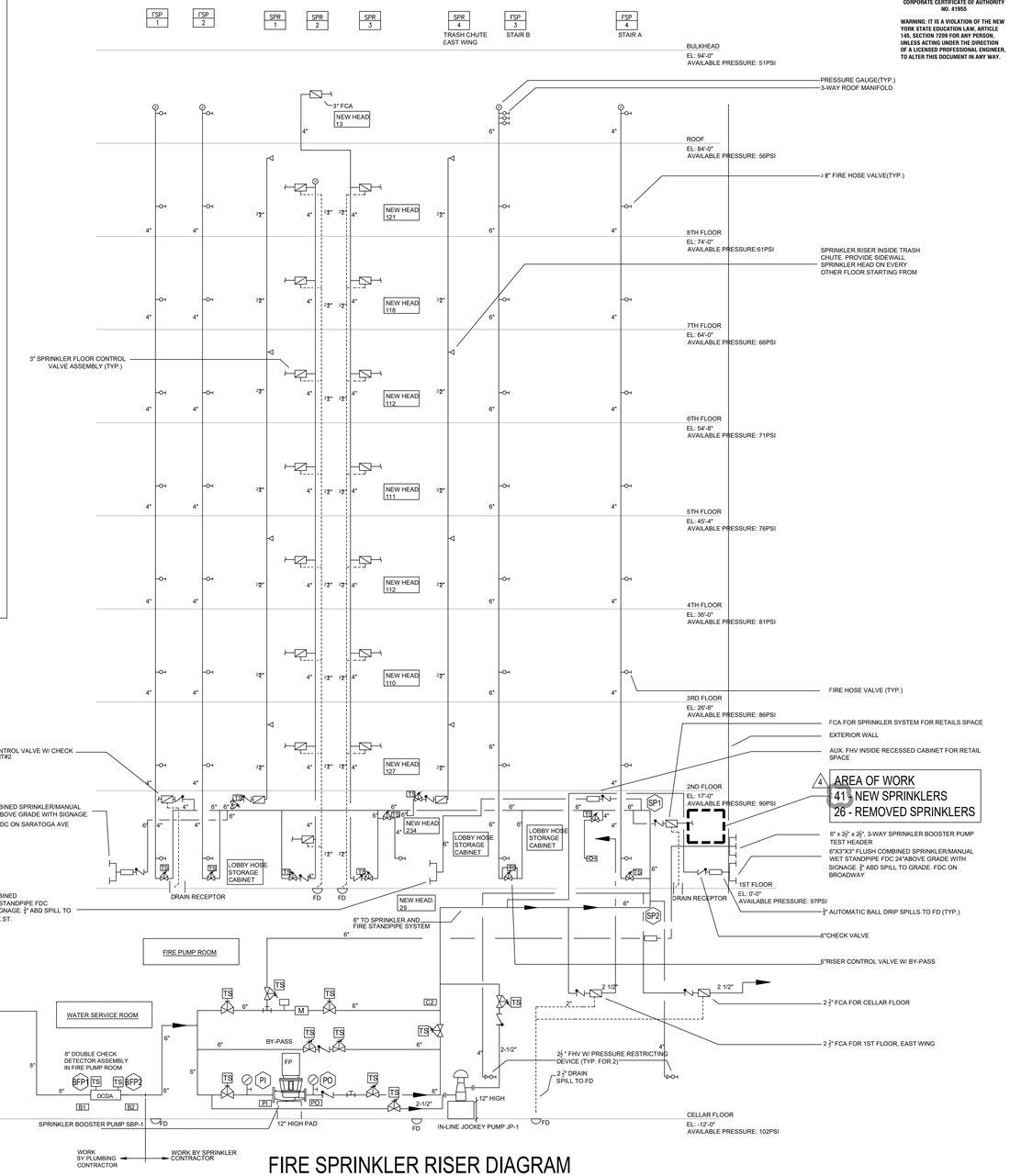
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FIRE SPRINKLER RISER DIAGRAM

NOT TO SCALE (FOR REFERENCE ONLY)

DOB NOW APPLICATION # B01050687-S3

Consultant:
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10-29-2024

STATE OF NEW YORK · WILLIAM B. SMITH · 086187 · LICENSED PROFESSIONAL ENGINEER

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Issue Record:

4/4/2024	COORDINATION SET
4/19/2024	LLD REVIEW/PERMIT SET
5/02/2024	BID SET
8/02/2024	ISSUE FOR CONSTRUCTION
4 10/23/2024	CONSTRUCTION SET

Revisions:

Drawn: DCS
Checked: WMA

Project No.
22111

Contents:
FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM

SP-200.00

N.Y.C. DEPARTMENT OF BUILDINGS SPRINKLER NOTES

1. AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903 &APPENDIX Q OF NYC BUILDING CODE & NFPA 13-2007.
2. CONSTRUCTION DOCUMENTS FOR STANDPIPE SYSTEM SHALL CONTAIN PLANS THAT INCLUDE THE INFORMATION AND DATA LISTED IN SEC. 903.1.2 OF NYC BUILDING CODE.
3. APPROVED AUTOMATIC SPRINKLER SYSTEM IN NEW BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SEC. 903.2 OF NYC BUILDING CODE.
4. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SEC. 903.3.1 THROUGH 903.3.7 OF NYC BUILDING CODE.
5. WHERE THE PROVISIONS OF NYC BUILDING CODE REQUIRE THAT A BUILDING OR PORTION THERE OF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SEC. 903.3.1.1, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 AS MODIFIED IN APPENDIX Q EXCEPT AS PROVIDED IN SEC. 903.3.1.1.1 OF NEW YORK CITY BUILDING CODE.
6. AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE ROOMS OR AREAS WHICH ARE LISTED IN 903.3.1.1.1 OF NYC BUILDING CODE AS LONG AS AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SEC. 907.2 AND AN ALTERNATIVE EXTINGUISHING SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 904.
7. SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL EQUIPMENT. AS PER SECTION 903.1.1.1 OF NEW YORK CITY BUILDING CODE.
8. WHERE ALLOWED IN BUILDINGS OF GROUP R, UP TO & INCLUDING SIX STORIES IN HEIGHT, AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 RAS MODIFIED IN APPENDIX Q 903.3.1.2 OF N.Y.C. BUILDING CODE.
9. WHERE AUTOMATIC SPRINKLER SYSTEM IS REQUIRED BY NYC BUILDING CODE, QUICK-RESPONSE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN THE AREAS LISTED SEC. 903.3.2 OF NYC BUILDING CODE.
10. AUTOMATIC SPRINKLERS SHALL BE INSTALLED WITH DUE REGARD TO OBSTRUCTIONS THAT WILL DELAY ACTIVATION OR OBSTRUCT THE WATER DISTRIBUTION PATTERN. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTH, CONCESSION STANDS, OR EQUIPMENT THAT EXCEEDS 4 FEET IN WIDTH. NOT LESS THAN 3 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN AUTOMATIC SPRINKLERS &TOP OF FILES OF COMBUSTIBLE FIBERS SEC. 903.3.3 OF NYC BUILDING CODE.
11. WATER SUPPLIES FOR AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903.3.5 OF NYC BUILDING CODE AND SEC. 903.3.1 THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACK FLOW IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 903.3.5 THE NYC PLUMBING CODE, AND RULES OF THE NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION.
12. A SECONDARY ON-SITE WATER SUPPLY EQUAL TO THE HYDRAULICALLY CALCULATED SPRINKLER DEMAND, INCLUDING THE HOSE STREAM REQUIREMENT, SHALL BE PROVIDED FOR HIGH-RISE BUILDINGS IN SEISMIC DESIGN CATEGORY "C" OR "D" AS DETERMINED BY THIS CODE, AND IN ANY HIGH-RISE BUILDING GREATER THAN 300 FEET IN HEIGHT. THE SECONDARY WATER SUPPLY SHALL HAVE A DURATION NOT LESS THAN 30 MINUTES AS DETERMINED BY THE OCCUPANCY HAZARD CLASSIFICATION IN ACCORDANCE WITH NFPA 13-2007. AS PER SECTION 903.3.5.2 OF N.Y.C. BUILDING CODE.
13. FIRE HOSE THREADS USED IN CONNECTION WITH AUTOMATIC SPRINKLER SYSTEMS SHALL BE APPROVED AND COMPATIBLE WITH FIRE DEPARTMENT HOSE THREADS. AS PER SECTION 903.3.6 OF N.Y.C. BUILDING CODE.
14. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEM, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEM SHALL BE ELECTRICALLY SUPERVISED BY THE FIRE ALARM SYSTEM AS PER SECTION 903.4 OF N.Y.C. BUILDING CODE.
15. APPROVED SUPERVISED INDICATING CONTROL VALVES SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE RISER ON EACH FLOOR IN HIGH-RISE BUILDINGS. AS PER SECTION 903.4.3 OF N.Y.C. BUILDING CODE.
16. THE DOCUMENTS OR PORTIONS THERE OF LISTED IN CHAPTER 2 OF NFPA 13-2007 ARE REFERENCED WITHIN NFPA-13 AND SHALL BE CONSIDERED PART OF THE REQUIREMENTS OF THIS DOCUMENT.
17. OCCUPANCY CLASSIFICATION SHALL COMPLY WITH CHAPTER 5 OF NFPA 13-2007.
18. PROTECTION REQUIREMENTS FOR MIXED COMMODITIES SHALL BE IN ACCORDANCE WITH SEC. 5.6.1.2 OF NFPA 13-2007.
19. REQUIREMENTS FOR CORRECT USE OF SPRINKLER SYSTEM COMPONENTS SHALL COMPLY WITH CHAPTER 6 OF NFPA 13-2007.
20. THE K-FACTOR, RELATIVE DISCHARGE, AND MARKING IDENTIFICATION FOR SPRINKLERS HAVING DIFFERENT ORIFICE SIZES SHALL BE IN ACCORDANCE WITH TABLE 6.2.3.1 OF NFPA 13-2007.
21. LARGE DROP & ESFR SPRINKLERS SHALL HAVE A MINIMUM NOMINAL K-FACTOR OF 11.2. PER SECTION 6.2.3.5 OF NFPA 13-2007.
22. AUTOMATIC SPRINKLERS SHALL HAVE THEIR FRAME ARMS, DEFLECTOR, COATING MATERIAL, OR LIQUID BULB COLORED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 6.2.5.1 OF NFPA 13-2007.
23. LISTED CORROSION RESISTANT SPRINKLER SHALL BE INSTALLED IN LOCATIONS WHERE CHEMICALS, MOISTURE, OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES EXIST WITH SECTION 6.2.6.1 OF NFPA 13-2007.
24. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS. SEC. 6.7.4.1 OF NFPA 13-2007.
25. FIRE DEPARTMENT CONNECTIONS SHALL BE EQUIPPED WITH LISTED PLUGS OR CAPS, PROPERLY SECURED AND ARRANGED FOR EASY REMOVAL BY THE FIRE DEPARTMENT. SEC. 6.8.4 OF NFPA 13-2007.
26. REQUIREMENTS OF DRY PIPE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7.2 OF NFPA 13-2007.
27. REQUIREMENTS OF PREACTION &DELUGE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7.3 OF NFPA 13-2007.

N.Y.C. DEPARTMENT OF BUILDINGS SPRINKLER NOTES (CONT.)

28. OUTSIDE SPRINKLERS FOR PROTECTION AGAINST EXPOSURE FIRE SHALL COMPLY WITH SEC. 7.7 OF NFPA 13-2007.
29. THE MAXIMUM FLOOR AREA OR ANY ONE FLOOR TO BE PROTECTED BY A SINGLE RISER FROM A CONTROL VALVE AND ALARM DEVICE SHALL COMPLY WITH SEC. 8.2.1 OF NFPA 13-2007.
30. WHERE CIRCUMSTANCES REQUIRE THE USE OF OTHER THAN ORDINARY TEMPERATURE-RATED SPRINKLERS, STANDARD RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE USED SEC. 8.3.3 OF NFPA 13-2007.
31. WHEN EXISTING LIGHT HAZARD SYSTEMS ARE CONVERTED TO USE QUICK-RESPONSE OR RESIDENTIAL SPRINKLERS ALL SPRINKLERS IN A COMPARTMENTED SPACE SHALL BE CHANGED. SEC. 8.3.3.4 OF NFPA 13-2007.
32. SPRINKLERS OF INTERMEDIATE AND HIGH TEMPERATURE RATINGS SHALL BE INSTALLED IN SPECIFIC LOCATIONS AS REQUIRED BY SEC. 8.3.2 OF NFPA 13-2007.
33. SPRINKLERS SHALL BE LOCATED, SPACED AND POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 8.5 OF NFPA 13-2007.
34. PROTECTION AREAS AND MAXIMUM SPACING FOR EACH HAZARD SHALL COMPLY WITH TABLE 8.6.2.2.1 (a) (b) (c) (d) OF NFPA 13-2007.
35. REQUIREMENTS OF DWELLING UNITS PROTECTION SHALL COMPLY WITH SEC. 8.14.8 OF NFPA 13-2007.
36. REQUIREMENTS OF STAGES AREA PROTECTION SHALL COMPLY WITH SEC. 8.14.15 OF NFPA 13-2007.
37. DRAIN CONNECTIONS FOR SYSTEMS SUPPLY RISERS AND MAINS SHALL BE SIZED AS SHOWN IN TABLE 8.15.2.4.2 OF APPENDIX Q-NYC BUILDING CODE.
38. TYPES OF HANGERS SHALL BE ACCORDANCE WITH THE REQUIREMENT OF SEC. 9.1 OF NFPA 13-2007.
39. MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE COMPLY WITH TABLE 9.2.2.1 OF NFPA 13-2007.
40. HOSE STREAM DEMAND AND WATER SUPPLY DURATION REQUIREMENT SHALL COMPLY WITH TABLE 11.2.3.1.1 OF NFPA 13-2007
41. THE WATER SUPPLY FOR SPRINKLERS SHALL BE DETERMINED BY DENSITY/AREA CURVE, FIGURE 11.2.3.1.5 OF NFPA 13-2007.
42. HYDRAULIC DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS SHALL COMPLY WITH FIGURE 11.2.3.2.3.1 OF NFPA 13-2007.
43. CALCULATIONS FOR DRY SYSTEM WATER DELIVERY SHALL BE BASED ON THE HAZARD SHOWN IN TABLE 11.2.3.9.1 OF NFPA 13-2007.
44. DESIGN CRITERIA OF WATER CURTAIN SHALL COMPLY WITH SEC. 12.1.13 OF NFPA 13-2007.
45. TYPE OF SPRINKLER HEAD IN GENERAL STORAGE SHALL COMPLY WITH SEC. 11.2.3.8 OF NFPA 13-2007.

MAXIMUM HANGER SPACING

1" - 1 1/4" BLACK STEEL PIPE - 12 FT MAXIMUM HANGER SPACING

1 1/2" - 8" BLACK STEEL PIPE - 15 FT MAXIMUM HANGER SPACING

SPRINKLER NOTES

1. ALL SPRINKLERS ARE 5.6 K-FACTOR.
2. SPRINKLER SPACING IN ORDINARY HAZARD AREAS - MAXIMUM 130 SQ FT PER SPRINKLER AND MAXIMUM 15 FT BETWEEN SPRINKLERS.

OCCUPANCY CLASSIFICATION

1. BUILDING CODE: BUSINESS
2. NFPA 13: LIGHT AND ORDINARY HAZARD GROUP I

PIPE PAINTING NOTE

1. DEDICATED FIRE SPRINKLER PIPE SHALL BE PAINTED IN ACCORDANCE WITH LOCAL LAW 58 OF 2009.

INSPECTION AND TEST NOTES FOR SPRINKLER SYSTEM

1. AS PER NYC BUILDING CODE, NFPA 13-2007 CHAPTER 24, SYSTEM SHALL BE TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS.

SPECIAL INSPECTIONS

SPECIAL INSPECTOR'S ARE REQUIRED FOR THE FOLLOWING:

1. SPRINKLER SYSTEMS (PER NYCBC 1704.23)
2. FINAL - SPRINKLER (PER NYCBC 109.5/ DIR 14)

NFPA REFERENCED STANDARDS

1. NFPA 13 - 2007 EDITION

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

DOB/ FDNY PERMIT APPLICATION PROCESS NOTE

1. OWNER SHALL NOTIFY FDNY OF SPRINKLER DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.

FIRE SPRINKLER HAZARD CLASSIFICATION

1. ORDINARY HAZARD GROUP 2: WATER CURTAIN

CONSTRUCTION NOTES

1. DURING CONSTRUCTION, FIRE SPRINKLER CONTRACTOR SHALL KEEP FIRE SPRINKLER SYSTEMS OUT OF CONSTRUCTION AREA FULLY CHARGED AND OPERATIONAL DURING BUSINESS HOURS.
2. COORDINATE REQUIRED SHUT-DOWNS OF THE EXISTING SYSTEMS WITH THE OWNER, INSURANCE UNDERWRITER, AND FIRE DEPARTMENT.
3. PROVIDE TEMPORARY VALVES, PIPING AND FITTINGS AS REQUIRED TO MAINTAIN SERVICE TO ADJACENT TENANT'S FIRE SPRINKLER SYSTEM DURING CONSTRUCTION.

HANGER NOTE

1. COORDINATE ALL HANGER TYPES AND LOCATIONS WITH THE STRUCTURAL ENGINEER OF RECORD.

SPRINKLER BELOW DUCT NOTE

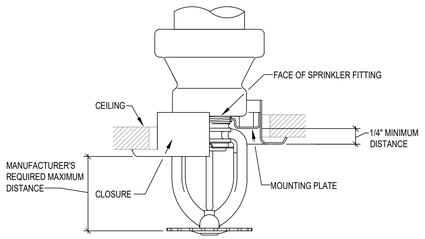
PROVIDE SPRINKLER PROTECTION BELOW DUCTS IN EXPOSED STRUCTURE AREAS PER NFPA 13.

GENERAL NOTES

1. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS WHETHER OR NOT SHOWN ON THE DRAWINGS.
2. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.
3. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADES' WORK.
4. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE DRAWINGS ARE 100% CAD. THE HYDRAULIC CALCULATIONS WERE PREPARED USING HASS. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY.
5. SUPPLY ONLY ONE (1) SPRINKLER FROM A SINGLE BRANCH LINE OUTLET. PROVIDE NEW BRANCH LINES AS REQUIRED.
6. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE BID DOCUMENTS WILL BE USED.
7. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY EXISTING PIPING OR FITTINGS DAMAGED AS A RESULT OF HIS WORK AT NO COST TO THE OWNER.
8. ALL UNUSED OUTLETS ON EXISTING BRANCH LINES SHALL BE PLUGGED.

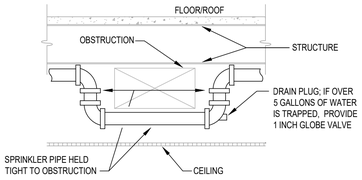
ALL ARM-OVERS TO SPRINKLERS ARE 1" DIAMETER

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS EXEMPT FROM THE NYCECC. THE SCOPE OF WORK DOES NOT AFFECT THE ENERGY USE OF THE BUILDING.



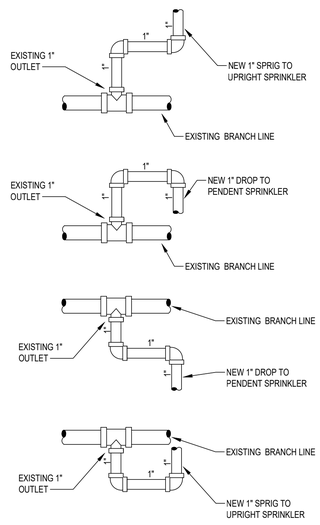
VERTICAL TOLERANCE FOR RECESSED SPRINKLERS

NOT TO SCALE



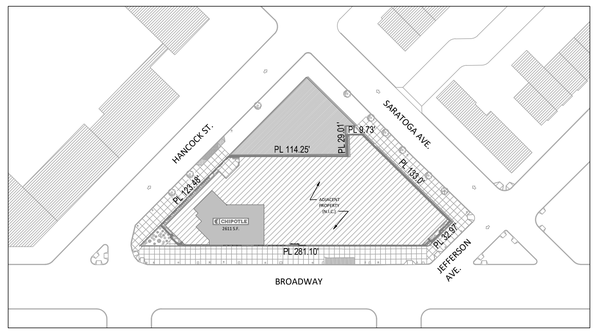
TYPICAL OFFSET AT OBSTRUCTION

NOT TO SCALE



TYPICAL BRANCH LINE OUTLET DETAIL

NOT TO SCALE



PLOT PLAN

NOT TO SCALE

CCI
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ENGINEER OF RECORD:
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NYC Environmental Protection

5/2/2022

Rohit T. Aggarwala
Commissioner

Anastasios Georgelis, P.E.
Deputy Commissioner
Bureau of Water and Sewer Operations
59-17 Junction Blvd.
Flushing, NY 11373
Tel. (718) 595-7668
TasosG@dep.nyc.gov

Loring Consulting Engineers, Inc.
Maggie Lei
360 West 31st Street
New York, NY 10001

To Whom It May Concern:

The hydrant flow test you requested in the vicinity of 1510 Broadway , Brooklyn was performed on 4/29/2022 at 10:17:00 AM with the following results:

The static pressure taken on a 12 inch water main which is fed from two direction on the north side of HANCOCK ST 1st hydrant east of SARATOGA AVE was 49 pounds per square inch. The residual pressure at this point was 48 pounds per square inch when 500 gallons of water per minute were flowing from the north side of HANCOCK ST 1st hydrant west of BROADWAY.

The theoretical minimum and maximum pressure at the static hydrant is 38.5 psi and 49.4 psi respectively. The equivalent gradients in NAVD88 datum are 135 feet and 160 feet.

This Department cannot guarantee that this pressure will be maintained in the future because a change may be needed in conformity with good engineering practices.

If you have any questions regarding engineering, and application status, please call (718) 595-7135.

Very truly yours,

Urszula Krajewski
Water Distribution Engineer
City Wide Hydraulic Testing Unit

File: FT2022-0578

SHEET LIST
SPD-100.00 FIRE SPRINKLER PLAN - REMOVAL WORK
SP-100.00 FIRE SPRINKLER PLAN - NEW WORK
SP-200.00 FIRE SPRINKLER SPECIFICATION AND RISER DIAGRAM
SP-201.00 FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS
SP-300.00 FEMA MAP

DOB NOW APPLICATION # B01050687-S3

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
tel: 212 - 647 - 0011
fax: 212 - 647 - 0022

10-29-2024

STATE OF NEW YORK · WILLIAM B. SMITH · 086187 · LICENSED PROFESSIONAL ENGINEER

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STORE NO.: 3114872
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1510 BROADWAY BROOKLYN, NY 11221

Issue Record:

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4/19/2024	LLD REVIEW/PERMIT SET
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Revisions:

Drawn:	Checked:
DCS	WMA

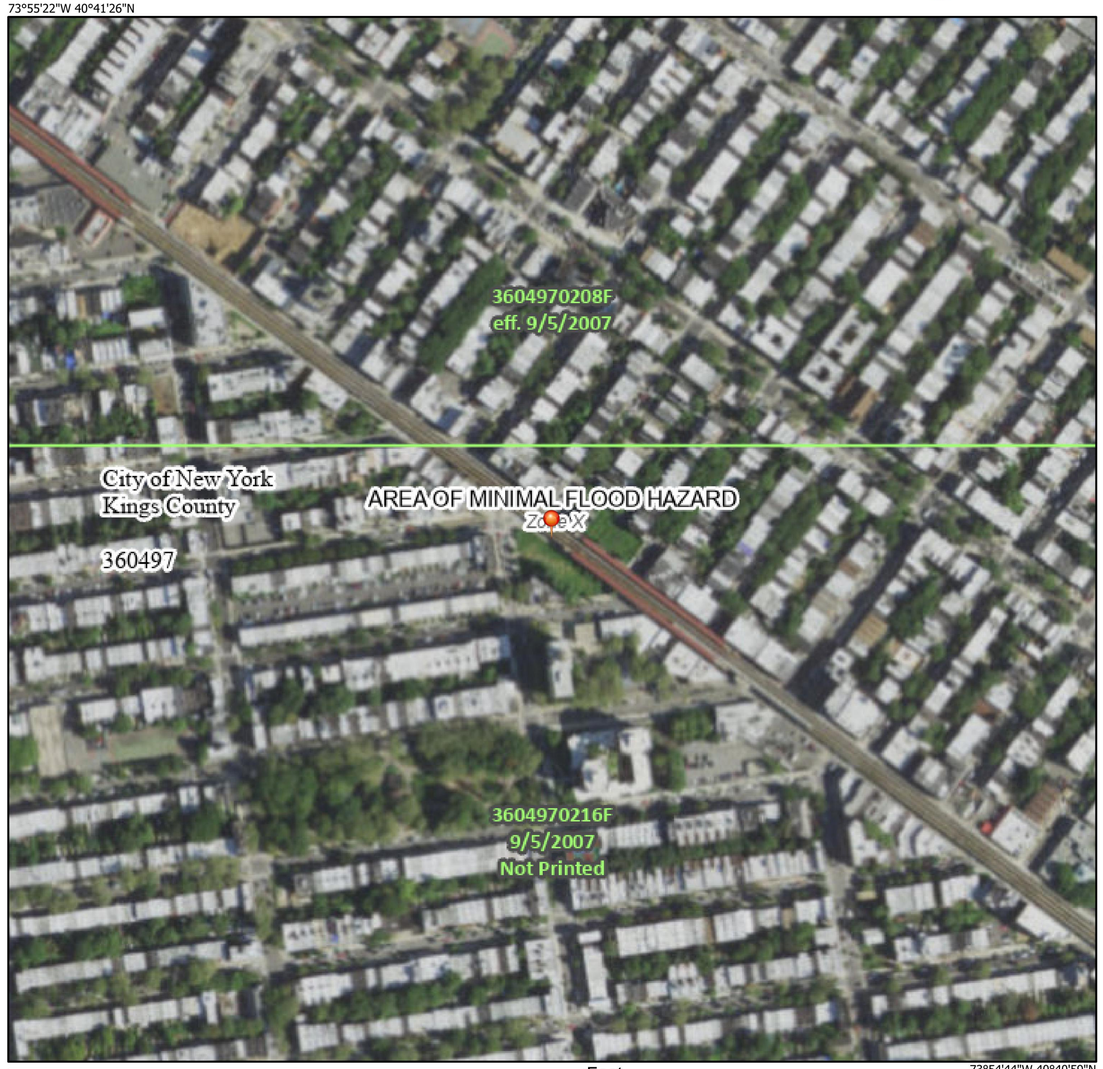
Project No.
22111

Contents:
FIRE SPRINKLER NYC NOTES, PLOT PLAN, MISC. NOTES AND DETAILS

SP-201.00

National Flood Hazard Layer FIRMette

73°55'22"W 40°41'26"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

73°54'44"W 40°40'59"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/12/2024 at 7:55 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

FEMA MAP

NOT TO SCALE

SHEET LIST

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10-29-2024

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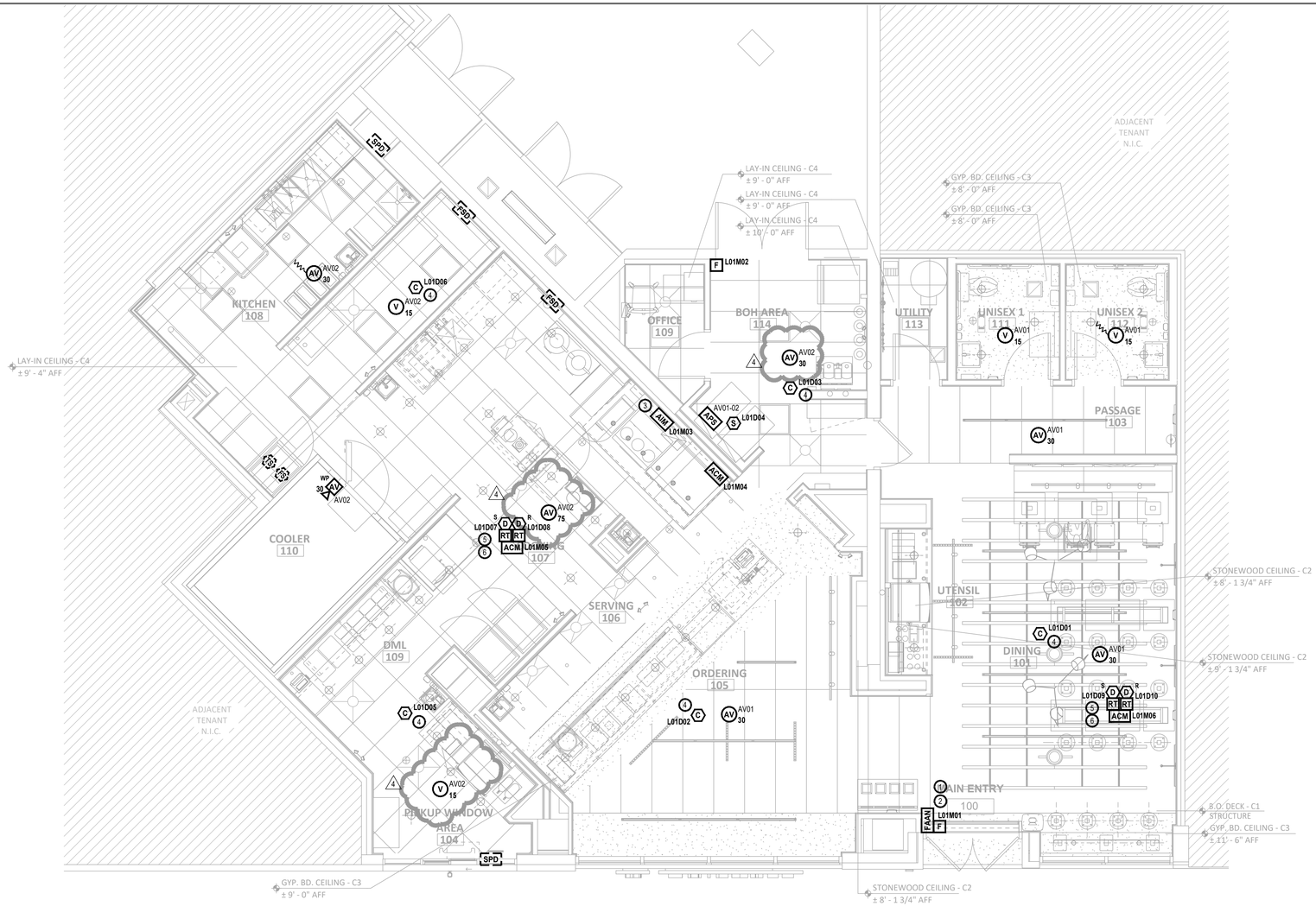
Drawn: DCS

Checked: WMA

Project No. 22111

Contents: FEMA MAP

SP-300.00



FIRE ALARM PLAN - NEW WORK

SCALE: 1/4" = 1'-0" FIN. FLOOR ELEV. = 100'-0"

FIRE ALARM SYMBOL KEY

FS	EXISTING FIRE SPRINKLER WATERFLOW SWITCH TO REMAIN
TS	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO REMAIN
FSD	EXISTING FIRE SMOKE DAMPER TO REMAIN
SPD	EXISTING POST-FIRE SMOKE PURGE DAMPER TO REMAIN
FAAN	REMOTE FIRE ALARM ANNUNCIATOR
APS	NEW AUXILIARY POWER SUPPLY (COMPATIBLE WITH EXISTING FACP)
AIM	NEW ADDRESSABLE INPUT MODULE (COMPATIBLE WITH EXISTING FACP)
ACM	NEW ADDRESSABLE CONTROL MODULE (COMPATIBLE WITH EXISTING FACP)
AV XX	NEW WALL MOUNTED RED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (COMPATIBLE WITH EXISTING FACP) (WP = WEATHERPROOF)
F	MANUAL PULL STATION
AV XX	CEILING MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING)
V XX	CEILING MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING)
S	NEW ADDRESSABLE SMOKE DETECTOR (COMPATIBLE WITH EXISTING FACP)
C	NEW ADDRESSABLE CARBON MONOXIDE DETECTOR WITH T-4 SOUNDER BASE (COMPATIBLE WITH EXISTING FACP)
D S/R	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (INTELLIGENT) (R = RETURN SIDE, S = SUPPLY SIDE)
RT	REMOTE TEST STATION
	END OF LINE RESISTOR
	FIRE ALARM CONDUCTORS
E	EXISTING FIRE ALARM CONDUCTORS TO REMAIN

FIRE ALARM KEYED NOTES (DENOTED AS #)

1. THE EXISTING BASE BUILDING FIRE ALARM CONTROL PANEL AND ASSOCIATED FIRE ALARM EQUIPMENT LOCATED WITH IN THE ELECTRICAL SERVICE ROOM OUTSIDE OF TENANT SPACE SHALL REMAIN AS CURRENTLY CONFIGURED. ALL NEW FIRE ALARM DEVICES WITHIN THE CHIPOTLE SPACE SHALL BE CONNECTED DIRECTLY TO THE BASE BUILDING FIRE ALARM CONTROL PANEL. THE FIRE ALARM CONTROL PANEL SHALL TRANSMIT FIRE ALARM, SUPERVISORY, AND TROUBLE SIGNALS OFF-SITE AS CURRENTLY CONFIGURED.
2. THE INSTALLING FIRE ALARM CONTRACTOR SHALL FIELD VERIFY EXISTING FIRE ALARM CONTROL PANEL (FACP) HAS SUFFICIENT STANDBY SECONDARY BATTERY CAPACITY TO ACCOMMODATE THE NEW FIRE ALARM EQUIPMENT. IF ADEQUATE SECONDARY BATTERY CAPACITY IS NOT PROVIDED, CONTRACTOR WILL PROVIDE LARGER BATTERIES WITHOUT EXCEEDING EXISTING FACP MANUFACTURERS CHARGING CAPABILITIES. BATTERY CABINET WILL BE PROVIDED IF REQUIRED.
3. PROVIDE AN ADDRESSABLE INPUT MODULE (AIM) FOR MONITORING OF THE ANSUL SYSTEM. PROVIDE CONNECTIONS TO THE ALARM AND TROUBLE CONTACTS TO INITIATE ALARM WITHOUT BEING AFFECTED BY THE STATUS OF THE TROUBLE CONTACTS.
4. PROVIDE ADDRESSABLE CARBON MONOXIDE DETECTORS, AS OUTLINED IN THE DRAWINGS AND SPECIFICATIONS. THE CARBON MONOXIDE SOUNDER BASE SHALL ACTIVATE AND SOUND A TEMPORAL 4 PATTERN, AS REQUIRED BY NFPA 720 AND THE NEW YORK CITY BUILDING CODE. MOUNT CARBON MONOXIDE DETECTOR ON THE BOTTOM OF THE DECK OR CEILING (NOT ON THE BOTTOM OF STRUCTURAL MEMBERS) AND LOCATED MORE THAN THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AS INDICATED IN NFPA 720. THE CARBON MONOXIDE DETECTOR AND FIRE ALARM CABLING SHALL BE INSTALLED AND SUPPORTED A MINIMUM 1-1/2 INCHES FROM THE LOWEST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
5. PROVIDE ADDRESSABLE DUCT SMOKE DETECTION ON THE SUPPLY AND RETURN SIDE OF ALL AIR HANDLING UNITS (AHU) WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM. DUCT SMOKE DETECTORS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE CABLING AND WIRING CONNECTIONS TO HVAC CONTROLS AND DUCT DETECTOR POWER. FINAL TERMINATIONS TO HVAC CONTROLS AND DUCT DETECTOR POWER ARE BY MECHANICAL OR CONTROLS CONTRACTOR. COORDINATE ALL EQUIPMENT INSTALLATION, POWER, AND INTERFACE CONNECTIONS WITH THE ELECTRICAL, MECHANICAL, AND TEMPERATURE CONTROLS CONTRACTORS. UTILIZE THE DUCT SMOKE DETECTOR INTERNAL RELAY TO BE INTERCONNECTED TO THE SHUTDOWN CIRCUIT IN THE RTU CONTROLLER. COORDINATE FINAL TERMINATIONS FOR RTU SHUTDOWN WITH MECHANICAL CONTRACTOR.
6. PROVIDE A REMOTE TEST STATION/ANNUNCIATOR FOR EACH DUCT SMOKE DETECTOR. PROVIDE ANY REQUIRED POWER CABLING CONNECTIONS TO DETECTORS AND REMOTE TEST STATION/ANNUNCIATOR. MOUNT THE REMOTE TEST STATION/ANNUNCIATOR ON THE SUSPENDED CEILING DIRECTLY BELOW THE AHU. COORDINATE EXACT MOUNTING LOCATIONS WITH THE GENERAL CONTRACTOR, OWNER, AND THE AHJ PRIOR TO INSTALLATION.

PROJECT INFORMATION

PROJECT NAME:	CHIPOTLE - BEDFORD STUYVESANT
LOCATION:	1510 BROADWAY BROOKLYN, NY 11221
FIRE PROTECTION:	SPRINKLERED
OCCUPANCY:	MERCANTILE (EXISTING)

SHEET LIST

FA-100.00 FIRE ALARM PLAN - NEW WORK

FA-200.00 FIRE ALARM NYC NOTES, MISCELLANEOUS NOTES AND DETAILS

FA-201.00 FIRE ALARM SPECIFICATIONS

WIRING LEGEND

CONDUCTOR TYPE:	CIRCUIT DESIGNATION:
E = 18/2 TP FPLP NYC CERT.	AN = ANNUNCIATOR CIRCUIT
F = 14/2 TP FPLP NYC CERT.	AV = AUDIBLE/VISUAL NOTIFICATION CIRCUIT
G = AS REQ'D BY MANF.	L = INITIATION DATA CIRCUIT

F(AV##)
- CONDUCTOR TYPE
- CIRCUIT DESIGNATION
- CIRCUIT NUMBER

SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE A DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.

APPLICABLE CODES

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

2022 NEW YORK CITY BUILDING CODE

2022 NEW YORK CITY FIRE CODE

2022 NEW YORK CITY MECHANICAL CODE

2011 NEW YORK CITY ELECTRICAL CODE

2016 EDITION NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

2015 EDITION NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE (CO)DETECTION AND WARNING EQUIPMENT

CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF ENGINEER OF RECORD (CCI) FOR RESOLUTION.

SCOPE OF WORK

1. THE FIRE ALARM SYSTEM WITHIN THE FUTURE CHIPOTLE WILL CONNECT ALL NEW FIRE ALARM DEVICES TO THE EXISTING FIRE ALARM CONTROL PANEL AS NEEDED.
2. THE EXISTING FIRE ALARM CONTROL PANEL SHALL CONTINUE REPORTING ALL ALARM, SUPERVISORY, AND TROUBLE SIGNALS OFF-SITE AS CURRENTLY CONFIGURED.
3. THE NEW SCOPE OF WORK ON THE EXISTING FIRE ALARM SYSTEM SHALL CONSIST OF THE FOLLOWING:
   - PROVIDE NEW OCCUPANT NOTIFICATION APPLIANCES SHALL BE PROVIDED TO MEET REQUIREMENTS SPECIFIED BY LOCAL AUTHORITIES.
   - PROVIDE NEW INITIATING DEVICES TO PROVIDE COVERAGE TO MEET REQUIREMENTS SPECIFIED BY LOCAL AUTHORITIES.
   - POWER-LIMITED FIRE ALARM CABLING FOR OCCUPANT NOTIFICATION APPLIANCES AND INITIATING DEVICES.
   - NEW CARBON MONOXIDE DETECTION SHALL BE PROVIDED .
   - DUCT SMOKE DETECTORS IN AHU OVER 2000 CFM.
   - MONITORING OF THE ANSUL SYSTEM.

CCI

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10-29

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Revisions:

Drawn: SG Checked: CRO

Project No.

Contents:

FIRE ALARM PLAN - NEW WORK

FA-100.00

GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL UTILIZE THE EXISTING FIRE ALARM CONTROL PANEL. ALL NEW FIRE ALARM DEVICES WITHIN THE CHIPOTLE SPACE SHALL BE CONNECTED DIRECTLY TO THE EXISTING FIRE ALARM CONTROL PANEL. THE FIRE ALARM CONTROL PANEL SHALL TRANSMIT FIRE ALARM, SUPERVISORY, AND TROUBLE SIGNALS OFF-SITE AS PREVIOUSLY CONFIGURED.
2. EXISTING FIRE ALARM CIRCUITS SHALL REMAIN AS CURRENTLY CONFIGURED. NEW FIRE ALARM CIRCUITS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS.
   - SUPERVISORY CIRCUITS - CLASS B
   - SIGNALING LINE CIRCUITS (SLC) - CLASS B
   - AUXILIARY CIRCUITS - CLASS B
   - NOTIFICATION APPLIANCE CIRCUITS (NAC) - CLASS B
3. THE INSTALLING FIRE ALARM CONTRACTOR SHALL FIELD VERIFY EXISTING FIRE ALARM CONTROL PANEL (FACP) HAS SUFFICIENT STANDBY SECONDARY BATTERY CAPACITY TO ACCOMMODATE THE NEW FIRE ALARM EQUIPMENT. IF ADEQUATE SECONDARY BATTERY CAPACITY IS NOT PROVIDED, CONTRACTOR SHALL PROVIDE LARGER BATTERIES WITHOUT EXCEEDING EXISTING FACP MANUFACTURERS CHARGING CAPABILITIES. BATTERY CABINET SHALL BE PROVIDED AS NEEDED.
4. UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO SECONDARY POWER WITHIN TEN (10) SECONDS, AND WITHOUT LOSS OF SIGNALS. THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY-FOUR (24) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES AT MAXIMUM CONNECTED LOAD.
5. COORDINATE INSTALLATION OF A GROUND ROD OR ACCEPTABLE BUILDING GROUND FOR PROPER GROUNDING OF THE APS WITH THE ELECTRICAL CONTRACTOR.
6. DEVICES AND APPLIANCE LOCATIONS AS SHOWN ON THE FIRE ALARM PLANS ARE NOT DIMENSIONED FOR EXACT INSTALLATION. COORDINATE EXACT PLACEMENT OF ALL DEVICES AND APPLIANCES WITH THE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.
7. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADES' WORK.
8. MOUNT SMOKE/CARBON MONOXIDE DETECTORS AT THE CEILING/DECK, AND NOT ON THE BOTTOM OF BEAMS OR JOISTS. LOCATE ALL SMOKE AND CARBON MONOXIDE DETECTORS A MINIMUM OF THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AND AS REQUIRED BY NFPA 72/720. COORDINATE SMOKE/CARBON MONOXIDE DETECTOR LOCATIONS WITH LIGHTING, MECHANICAL. SPRINKLER AND BACKGROUND MUSIC EQUIPMENT.
9. SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL.
10. ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
11. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR SERVICE. PROVIDE ANY REQUIRED ACCESS PANELS.
12. ALL AUDIBLE APPLIANCES SHALL BE SET TO THE HIGH DBA SETTING AND SHALL SOUND A THREE-PULSE TEMPORAL PATTERN EVACUATION SIGNAL.
13. PROVIDE SYNCHRONIZATION OF ALL AUDIBLE AND VISUAL NOTIFICATION APPLIANCE CIRCUITS THROUGHOUT THE CHIPOTLE. PROVIDE ALL REQUIRED SYNCHRONIZATION MODULES. PROVIDE MULTI-SYNC MODE SLAVE CONNECTIONS TO ALL AUXILIARY POWER SUPPLIES.
14. ALL SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 72.
15. PROVIDE ANY REQUIRED SEISMIC BRACING FOR ALL FIRE ALARM SYSTEM DEVICES, CONDUIT AND BACKBOXES.
16. PROVIDE A PRINTED LABEL FOR EACH NOTIFICATION APPLIANCE INDICATING THE SPECIFIC CIRCUIT NUMBER FOR THAT APPLIANCE. THE LABEL SHALL INCLUDE END OF LINE RESISTOR LOCATION, CIRCUIT NUMBER AND APPLIANCE NUMBER. THE LABEL SHALL BE LOCATED ON THE BASE OF ALL NOTIFICATION APPLIANCES.
17. PROVIDE A PRINTED LABEL FOR EACH INITIATING DEVICE INDICATING THE SPECIFIC ADDRESS FOR THAT DEVICE. THE LABEL SHALL INCLUDE THE PROGRAMMING ADDRESS AND DEVICE NUMBER. THE LABEL SHALL BE LOCATED ON THE BASE OF ALL DETECTORS AND THE COVER PLATES OF EACH ADDRESSABLE DEVICE.
18. THE BASE BUILDING FIRE ALARM CONTROL PANEL SHALL CONTINUE TO TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN OFF-SITE MONITORING STATION AS CURRENTLY CONFIGURED.
19. PROVIDE A RISER DIAGRAM AND OPERATING INSTRUCTIONS, FRAMED AND LOCATED ADJACENT TO THE FACP.
20. PRIOR TO INSPECTION, PROVIDE 11x17 ASBUILT THAT INCLUDES THE RISER DIAGRAM, DEVICE LEGEND, INPUT/OUTPUT MATRIX, AND FUNCTIONALITY STATEMENT SIGNED BY THE APPROPRIATE PARTIES.
21. UPON COMPLETION OF THE INSTALLATION, THIS FIRE ALARM SYSTEM SHALL BE 100% PRE-TESTED BY THE FIRE ALARM VENDOR AND THE LICENSED ELECTRICAL CONTRACTOR, PRIOR TO THE FDNY INSPECTION. DETAILED RECORDS OF SUCH PRE-TESTING SHALL BE KEPT ON-SITE.

FIRESTOP NOTES

1. ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
2. FIRE-RATED GYPSUM BOARD WALLS CONSTRUCTED AS DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGNS IN THE U.L. FIRE RESISTANCE DIRECTORY (GENERALLY DOUBLE THICKNESS WALLBOARD) SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.
3. ALL REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOORS OR WALLS, AND ALL U.L. CLASSIFIED CONCRETE BLOCK WALLS SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.

INSTALLATION NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND ALL LOCAL ADOPTED CODES.
2. ALL CABLING SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM GRID, TILES OR SUPPORT WIRES. EXPOSED CABLING SHALL BE SUPPORTED BY BUILDING STRUCTURE AT NO MORE THAN FIVE (5) FOOT INTERVALS USING APPROVED "O" RINGS AND "J" HOOKS.
3. ALL WIRING CONDUCTORS ENTERING FIRE ALARM PANEL(S) SHALL BE IN CONDUIT AND ENTER FROM THE SIDE OF THE FIRE ALARM PANEL(S).
4. ALL CONDUIT LOCATED IN DRYWALL SHALL BE TERMINATED NO LESS THAN SIX (6) INCHES ABOVE THE CEILING TILE.
5. FOR DRYWALL APPLICATIONS, ALL CONDUIT AND BACKBOXES SHALL BE RECESSED INSIDE THE WALL.
6. ALL FIRE ALARM CABLING RISERS SHALL BE INSTALLED IN EMT CONDUIT.
7. ALL CABLING IN ELECTRICAL/MECHANICAL ROOMS, AND AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE INSTALLED IN EMT CONDUIT.
8. ALL FIRE ALARM DEVICES SHALL BE INSTALLED IN OR ON A PROPER BACKBOX. NO DEVICES SHALL BE INSTALLED WITHOUT A BACKBOX.
9. ALL WORK SHALL BE IN ACCORDANCE WITH 2022 NYC CODES, APPENDIX Q NYC FIRE ALARM RULES, AND THE 2016 NFPA 72.
10. ALL FIRE ALARM EQUIPMENT SHALL BE NYC APPROVED (MEA, BSA OR COA APPROVED).
11. ALL FIRE ALARM CABLING SHALL BE NYC CERTIFIED FPLP AS REQUIRED BY THE ELECTRICAL CODE. SEE WIRING LEGEND FOR CABLE TYPES AND SIZES

GENERAL PROGRAMMING NOTES

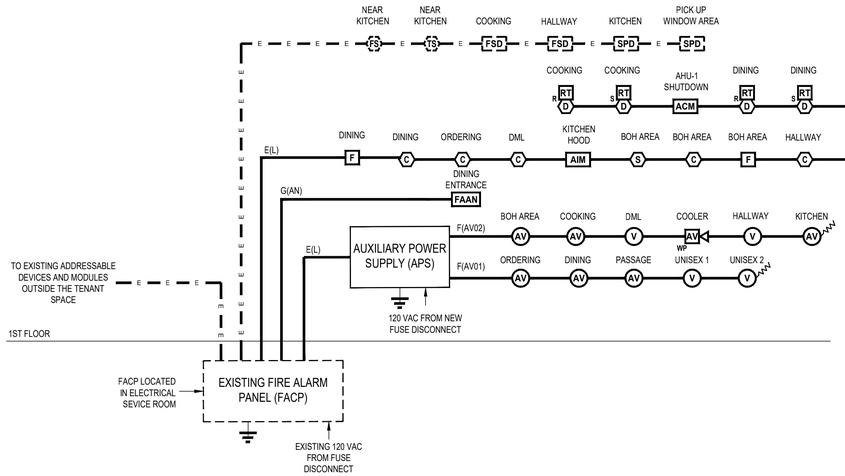
1. CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN SHOP DRAWING SUBMITTAL.
2. COORDINATE SPECIFIC ALPHANUMERIC DESCRIPTIONS WITH THE OWNER PRIOR TO SYSTEM PROGRAMMING.

FIRE ALARM MATRIX

	ACTIVATES OUTPUT FUNCTIONS AS CURRENTLY CONFIGURED	ACTUATES ALARM CONDITION AT THE EXISTING FIRE ALARM CONTROL PANEL AS CURRENTLY CONFIGURED	ACTIVATES ALARM CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR/KEYPAD	TRANSMITS ALARM SIGNAL TO AN APPROVED MONITORING STATION AS CURRENTLY CONFIGURED	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	ACTUATES TROUBLE CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR/KEYPAD	TRANSMITS TROUBLE SIGNAL TO AN APPROVED MONITORING STATION AS CURRENTLY CONFIGURED	ACTUATES CARBON MONOXIDE CONDITION AT FIRE ALARM CONTROL PANEL	ACTUATES CARBON MONOXIDE CONDITION AT A REMOTE FIRE ALARM ANNUNCIATOR/ KEYPAD	TRANSMITS CARBON MONOXIDE CONDITION AT REMOTE FIRE ALARM MONITORING STATION AS CURRENTLY CONFIGURED	ACTIVATES CARBON MONOXIDE SIGNAL TO AN APPROVED MONITORING STATION	ACTIVATES INTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCES (TEMPORAL-3)	ACTIVATES TEMPORAL-4 PATTERN THROUGH-OUT SOUNDER BASE	SHUTS DOWN ALL HVAC UNITS
EXISTING INITIATING DEVICES	●													
MANUAL PULL STATIONS			●	●	●						●			
SMOKE DETECTOR														
- SPOT TYPE			●	●	●						●			
- AIR HANDLING UNIT - SUPPLY / RETURN			●	●	●						●		●	
ANSUL SYSTEM MONITORING			●	●	●						●			
CARBON MONOXIDE DETECTION DEVICES														
- SPOT TYPE								●	●	●		●		
LOSS OF PRIMARY POWER AT THE FACP OR CC						●	●	●						
ABNORMAL CIRCUIT (OPEN, GROUND FAULT, SHORT) OR DEVICE						●	●	●						

NOTE:

1. THIS MATRIX ONLY INCLUDES THE ITEMS WITHIN THIS SCOPE OF WORK.
2. ALL EXISTING INITIATION DEVICES SHALL REMAIN AS CURRENTLY CONFIGURED.
3. ALL EXISTING OUTPUT FUNCTIONS SHALL REMAIN AS CURRENTLY CONFIGURED. THE NEW OUTPUT FUNCTIONS DESCRIBED ABOVE IN THE FIRE ALARM MATRIX ARE FOR THE NEW FIRE ALARM EQUIPMENT LOCATED IN THE CHIPOTLE SPACE.



NOTES:

1. ENSURE SUFFICIENT BATTERY BACKUP IS PROVIDED TO THE DQP TO ACCEPT THE NEW FIRE ALARM EQUIPMENT.
2. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCES AND CIRCUITS THROUGHOUT THE SPACE.
3. PROVIDE ALL REQUIRED CIRCUITS, MODULES, AND CONNECTIONS TO CONTROL AUDIBLE AND VISUAL NOTIFICATION APPLIANCES.
4. PROVIDE A SUFFICIENT QUANTITY OF AUXILIARY POWER SUPPLIES, MODULES, AND NAC CIRCUITS TO SATISFY THE DRAWING AND SPECIFICATION REQUIREMENTS. PROVIDE POWER AND VOLTAGE DROP CALCULATIONS ON ALL CIRCUITS.

FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE

NOTIFICATION CIRCUIT VOLTAGE DROP CALCULATIONS

SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE			VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	"CIRCUIT LENGTH (FEET)"	"12 AWG (VOLTS)"	"V-DROP (12 AWG)"	"14 AWG (VOLTS)"	"V-DROP (14 AWG)"
APS	FIRE RISER/CLOSET								
AV01	FRONT OF HOUSE	0.352	3,238	2,036	100	20.26	0.14	20.18	0.22
AV02	BACK OF HOUSE	0.479	2,380	1,496	100	20.22	0.18	20.11	0.29

CONTROL-BY-EVENT PROGRAMMING MATRIX

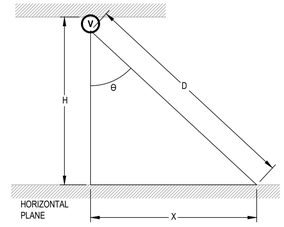
ADDRESS	TYPE I.D.	ACTUATED ZONES	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	Z01, Z05	MAIN ENTRANCE
L01M02	MONITOR	Z01, Z05	BOH AREA
L01M03	MONITOR	Z01, Z05	KITCHEN HOOD
L01M04	RELAY		GAS SHUTOFF
L01M05	RELAY		AHU-2 SHUTDOWN
L01M06	RELAY		AHU-1 SHUTDOWN

CONTROL-BY-EVENT PROGRAMMING MATRIX

ADDRESS	TYPE I.D.	ACTUATED ZONES	ALPHANUMERIC LABEL OF DEVICE
L01D01	CO	Z04, Z06	DINING 100
L01D02	CO	Z04, Z06	ORDERING 101
L01D03	CO	Z04, Z06	BOH AREA 112
L01D04	SMOKE	Z01, Z05	BOH AREA 112 - ABOVE APS
L01D05	CO	Z04, Z06	PICKUP WINDOW 107
L01D06	CO	Z04, Z06	HALLWAY
L01D07	DUCT	Z01, Z05	COOKING 106 - SUPPLY
L01D08	DUCT	Z01, Z05	COOKING 106 - RETURN
L01D09	DUCT	Z01, Z05	DINING 100 - SUPPLY
L01D10	DUCT	Z01, Z05	DINING 100 - RETURN

CONTROL-BY-EVENT PROGRAMMING ZONE LIST

ZONE NUMBER	ACTUATED DEVICES AND MODULES	ALPHANUMERIC LABEL OF ZONE
Z01	FACP	ALARM CONDITION AT FACP AND OFF-SITE MONITORING FACILITY
Z02	FACP	SUPERVISORY CONDITION AT FACP AND OFF-SITE MONITORING FACILITY
Z03	FACP	TROUBLE CONDITION AT FACP AND OFF-SITE MONITORING FACILITY
Z04	FACP	CARBON MONOXIDE CONDITION AT FACP AND OFF-SITE MONITORING FACILITY
Z05	FACP	INTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCE ACTIVATION
Z06	FACP	ACTIVATE CO SOUNDER BASE TEMPORAL 4 ALARM



SYMBOL LEGEND:

C = LIGHT OUTPUT (CANDELA) AT UL 1971 ANGLE
θ = ANGLE OFF THE AXIS FROM UL 1971
D = DISTANCE FROM SOURCE (FEET)
L = LIGHT INTENSITY (MINIMUM 0.0375 LUMENS/SQUARE FOOT) (NFPA 72, 2002 2013 SECTION 7.4.6.3 18.4.8.3 AND SECTION 7.5.4.3 18.5.5 PERFORMANCE-BASED ALTERNATIVE)
X = HORIZONTAL DISTANCE OFF THE AXIS (FEET)
H = VERTICAL DISTANCE OF LIGHT SOURCE FROM FLOOR (FEET)

EQUATIONS:

$\theta = \tan^{-1}\left(\frac{X}{H}\right)$

$X = \sqrt{D^2 - H^2}$

$L = \frac{C}{D^2} \geq 0.0375$

DISTANCE CHART

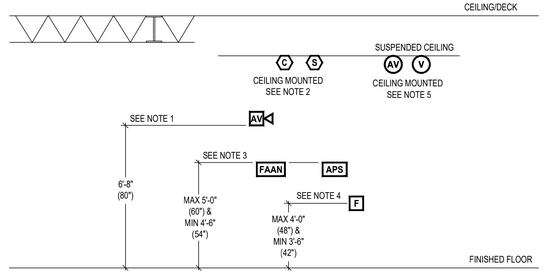
H (FEET)	X (FEET)					
	15 CD	30 CD	75 CD	95 CD	115 CD	177 CD
8	8.7	14.7	25.2	26.4	29.3	36.8
9	8.9	15.5	24.9	28.4	29.0	36.5
10	7.7	14.8	24.5	28.0	31.2	36.3
11	7.7	15.5	24.1	27.7	30.9	36.0
12	6.0	14.7	23.6	27.3	30.5	38.8
13	7.1	16.5	23.0	26.8	30.1	38.5
14	4.9	15.6	24.6	26.3	29.6	38.2
15	-	14.7	24.0	28.1	29.1	37.8
16	-	13.6	23.3	27.5	31.2	37.4
17	-	17.6	24.7	26.9	30.6	36.9
18	-	16.6	24.0	26.3	30.0	36.4
19	-	15.5	23.2	27.9	29.4	35.9
20	-	14.1	22.4	27.2	31.3	38.6
21	-	12.6	25.7	26.4	30.6	38.0
22	-	10.8	24.8	25.6	29.9	37.5
23	-	8.4	23.9	29.4	29.2	36.9
24	-	12.0	22.9	28.6	28.4	39.3
25	-	9.7	21.8	27.7	32.6	38.7
26	-	6.6	20.6	26.8	31.8	38.1
27	-	-	27.8	25.8	30.9	37.3
28	-	-	26.8	24.7	30.0	36.6
29	-	-	25.7	23.5	29.1	35.8
30	-	-	24.5	31.6	28.0	35.0

UL TABLE FOR CANDELA OUTPUT

ANGLE	UL %	C (CANDELA)					
		15 CD	30 CD	75 CD	95 CD	115 CD	177 CD
0	100%	15.0	30.0	75.0	95.0	115.0	177.0
5	90%	13.5	27.0	67.5	85.5	103.5	159.3
10	90%	13.5	27.0	67.5	85.5	103.5	159.3
15	90%	13.5	27.0	67.5	85.5	103.5	159.3
20	90%	13.5	27.0	67.5	85.5	103.5	159.3
25	90%	13.5	27.0	67.5	85.5	103.5	159.3
30	75%	11.3	22.5	56.3	71.3	86.3	132.8
35	75%	11.3	22.5	56.3	71.3	86.3	132.8
40	75%	11.3	22.5	56.3	71.3	86.3	132.8
45	75%	11.3	22.5	56.3	71.3	86.3	132.8
50	55%	8.3	16.5	41.3	52.3	63.3	97.4
55	45%	6.8	13.5	33.8	42.8	51.8	79.7
60	40%	6.0	12.0	30.0	38.0	46.0	70.8
65	35%	5.3	10.5	26.3	33.3	40.3	62.0
70	35%	5.3	10.5	26.3	33.3	40.3	62.0
75	30%	4.5	9.0	22.5	28.5	34.5	53.1
80	30%	4.5	9.0	22.5	28.5	34.5	53.1
85	25%	3.8	7.5	18.8	23.8	28.8	44.3
90	25%	3.8	7.5	18.8	23.8	28.8	44.3

CEILING MOUNTED FIRE ALARM STROBE DISTANCE CALCULATIONS

NOT TO SCALE



NOTES:

1. MEASURED TO THE BOTTOM OF THE LENS.
2. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED SMOKE/CARBON MONOXIDE DETECTORS ON THE BOTTOM OF THE DECK/SUSPENDED CEILING (NOT ON BOTTOM OF STRUCTURAL MEMBERS), AND AS INDICATED IN NFPA 72/720. CONFIRM WITH MANUFACTURER INSTALLATION GUIDE PRIOR TO INSTALLING.
3. COORDINATE EXACT MOUNTING HEIGHT OF FIRE ALARM ANNUNICATOR AND AUXILIARY POWER SUPPLY, WITH THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION.
4. MEASURED TO THE OPERABLE PART OF THE PULL STATION.
5. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED NOTIFICATION APPLIANCES FLUSH WITH THE SUSPENDED CEILING; ALIGNED WITH LIGHTING, SPRINKLERS, AND OTHER ARCHITECTURAL FIXTURES; WITH CLEAR LINE OF SITE IN ALL DIRECTIONS; NO GREATER THAN THIRTY (30) FEET ABOVE THE FINISHED FLOOR; AND AS INDICATED IN NFPA 72.

TYPICAL MOUNTING HEIGHT DETAIL

NOT TO SCALE

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STATE OF NEW YORK · COURTNEY R. OGLE · 099322 · LICENSED PROFESSIONAL ENGINEER

DATE: 10-29

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Project No.

Contents:
FIRE ALARM NYC NOTES, MISCELLANEOUS NOTES AND DETAILS

FA-200.00

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April 4, 2024
FIRE ALARM SYSTEMS 16720Z083111 - 25Project NameStatus - Date
PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. CONDITIONS OF THE CONTRACT, DRAWINGS, GENERAL REQUIREMENTS CONDITIONS AND DIVISION 1 SPECIFICATION APPLY TO THE WORK OF THIS SECTION.

1.02 SUMMARY

A. PROVIDE ALL REQUIRED LABOR, WARRANTY LABOR, MATERIALS, EQUIPMENT, SYSTEM PROGRAMMING, TESTING, SUBMITTALS AND SERVICES NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM AS HEREINAFTER DESCRIBED, AND AS SHOWN ON THE ENGINEERING DRAWINGS.

B. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. CONNECTIONS TO EXISTING FACP
2. DATA CIRCUITS
3. INITIATION CIRCUITS
4. NOTIFICATION CIRCUITS
5. DETECTION DEVICES
6. AUDIBLE/VISUAL APPLIANCES
7. HVAC SHUTDOWN

C. PROVIDE A MINIMUM OF ONE (1) HOUR TRAINING, FOR STAFF PERSONNEL, IN THE OPERATION AND USE OF THE SYSTEM.

D. IT IS INTENDED THAT THE ENGINEERING DRAWINGS AND SPECIFICATIONS SHALL DESCRIBE AND PROVIDE FOR A WORKING INSTALLATION COMPLETE IN EVERY DETAIL AND ALL ITEMS NECESSARY FOR SUCH COMPLETE INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE ENGINEERING DRAWINGS.

1.03 DEFINITIONS

A. DEFINITIONS REFERENCED IN THESE SPECIFICATIONS ARE AS FOLLOWS:

1. AHJ: AUTHORITY HAVING JURISDICTION
2. FACP: FIRE ALARM CONTROL PANEL
3. UL: UNDERWRITERS LABORATORIES, INC.
4. LED: LIGHT-EMITTING DIODE
5. NICET: NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES
6. NFPA: NATIONAL FIRE PROTECTION ASSOCIATION
7. FAEM: FIRE ALARM EQUIPMENT MANUFACTURER
8. NRTL: NATIONALLY RECOGNIZED TESTING LABORATORY

1.04 REFERENCES

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

B. IF THERE IS A CONFLICT BETWEEN THE APPLICABLE CODES, REFERENCED DESIGN STANDARDS, OR LOCAL AMENDMENTS AND THIS SPECIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY BRING THE CONFLICT TO THE ENGINEER FOR RESOLUTION.

1.05 SYSTEM DESCRIPTION

A. THE SYSTEM SHALL CONTINUE TO OPERATE AS A LOW VOLTAGE FIRE ALARM SYSTEM AND SUPERVISED FIRE ALARM SYSTEM AS HEREINAFTER SPECIFIED. THE EXISTING FIRE ALARM CONTROL PANEL AND DEVICES SHALL REMAIN AND BE REUSED AS CURRENTLY CONFIGURED. NEW INITIATING DEVICE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B. NEW NOTIFICATION APPLIANCE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B. NEW SIGNALING LINE CIRCUITS SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS B. CIRCUITS FOR RELAY COIL OPERATION SHALL BE 24 VOLT MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DIODE.

B. UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO WITHIN TEN (10) SECONDS, AND WITHOUT LOSS OF SIGNALS. THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY-FOUR (24) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES.

C. SYSTEM OPERATION SHALL BE AS FOLLOWS:

1. ABNORMAL CIRCUIT CONDITIONS OR DEVICES, AS REQUIRED FOR THE CLASS OF THE CIRCUIT, SHALL INITIATE A "TROUBLE" CONDITION AT THE CONTROL PANEL FOR THAT SPECIFIC CIRCUIT OR DEVICE. THE "TROUBLE" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION ON THE AFFECTED CIRCUIT OR DEVICE. THE FIRE ALARM SYSTEM SHALL TRANSMIT A "TROUBLE" CONDITION OFF-SITE AS CURRENTLY.
2. ACTIVATION OF ANY SUPERVISORY DEVICE AS INDICATED ON THE ENGINEERING DRAWINGS SHALL INITIATE A "SUPERVISORY" CONDITION AT THE CONTROL FOR THAT SPECIFIC DEVICE.

   THE "SUPERVISORY" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION AND SPECIFIC ADDRESS AND ALPHANUMERIC DESCRIPTION OF THE DEVICE AFFECTED. THE FIRE ALARM SYSTEM SHALL TRANSMIT A "SUPERVISORY" CONDITION OFF-SITE AS CURRENTLY.
3. ACTIVATION OF ANY ALARM DEVICE AS INDICATED ON THE ENGINEERING DRAWINGS SHALL INITIATE AN "ALARM" CONDITION AT THE CONTROL PANEL FOR THAT SPECIFIC DEVICE. THE "ALARM" INDICATION SHALL DESCRIBE THE NATURE OF THE CONDITION AND SPECIFIC ADDRESS AND ALPHANUMERIC DESCRIPTION OF THE DEVICE AFFECTED. THE FIRE ALARM SYSTEM SHALL TRANSMIT AN "ALARM" CONDITION OFF-SITE AS CURRENTLY CONFIGURED.
4. INITIATION OF AN "ALARM" CONDITION SHALL RESULT IN THE FOLLOWING FUNCTIONS TO BE PERFORMED BY THE SYSTEM:
   a. INITIATE AN ALARM INDICATION ON THE CONTROL PANEL BY TONE AND ILLUMINATE THE CORRESPONDING DEVICE SPECIFIC ALPHANUMERIC LCD DESCRIPTION. MANUALLY ACTIVATING THE "ALARM SILENCE" SHALL SILENCE THE TONE AT THE PANEL. THE ALARM ALPHANUMERIC DISPLAY SHALL REMAIN "ON" AT THE CONTROL PANEL UNTIL THE CONDITION CAUSING THE ALARM HAS BEEN CLEARED AND RESET. AN ADDITIONAL ALARM REPORTED TO THE PANEL SUBSEQUENT TO ACTIVATING THE "ALARM SILENCE" SHALL REACTIVATE THE CONTROL PANEL TONE.
   b. ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE SPACE.
   c. THE EXISTING FIRE ALARM CONTROL PANEL SHALL TRANSMIT AN "ALARM" SIGNAL OFF-SITE AS CURRENTLY CONFIGURED.
5. ACTUATION OF ALARM NOTIFICATION APPLIANCES, FIRE SAFETY FUNCTIONS, AND ANNUNCIATION OF THE PROTECTED PREMISES SHALL OCCUR WITHIN TEN (10) SECONDS AFTER THE ACTIVATION OF AN INITIATING DEVICE.

1.06 QUALITY ASSURANCE

A. ALL WORK SHALL MEET THE REQUIREMENTS OF THE OWNER, ARCHITECT, ENGINEER AND AUTHORITY HAVING JURISDICTION (AHJ).

B. ALL EQUIPMENT AND COMPONENTS SHALL BE UL LISTED, FOR THE ACTUAL INTENDED USE, UNLESS HEREINAFTER SPECIFICALLY EXCLUDED FROM SUCH A LISTING.

C. INSTALLATION AND SUPERVISION OF INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE REGULATIONS, LICENSES, AND PERMITS FOR FIRE ALARM SYSTEM INSTALLERS IN THIS JURISDICTION.

D. INSTALLER MUST HAVE BEEN ACTIVELY ENGAGED IN THE BUSINESS OF SELLING, INSTALLING, AND SERVICING FIRE ALARM SYSTEMS FOR AT LEAST FIVE (5) YEARS.

E. INSTALLER MUST BE AN AUTHORIZED REPRESENTATIVE OF THE FIRE ALARM EQUIPMENT MANUFACTURER (FAEM) AND HAVE TECHNICAL FACTORY TRAINING SPECIFICALLY FOR THE SYSTEM PROPOSED.

F. THE FAEM SHALL HAVE A REPRESENTATIVE SUPERVISE THE FINAL CONNECTION OF DEVICES, WIRING, AND PROGRAMMING OF THE CONTROL PANELS. THE FAEM REPRESENTATIVE SHALL BE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) CERTIFIED AS LEVEL II OR HIGHER FIRE ALARM PROTECTION / FIRE ALARM SYSTEMS ENGINEERING TECHNICIAN.

1.07 REGULATORY REQUIREMENTS

A. ALL WORK SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

B. NO APPROVALS OR INTERPRETATIONS OF THE DESIGN DOCUMENTS SHALL BE PURSUED EXCEPT THROUGH THE ENGINEER.

C. ANY WORK PERFORMED PRIOR TO THE SATISFACTORY REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER, APPROVAL BY THE AHJ, AND DETERMINED TO BE NONCOMPLIANT WITH THE CONTRACT DOCUMENTS OR APPLICABLE CODES BY THE OWNER OR AHJ WILL BE REPLACED AT THE CONTRACTORS' EXPENSE.

D. THE SYSTEM WILL NOT BE ACCEPTABLE UNTIL FINAL TESTING AND RECEIPT OF THE INSPECTION AND TESTING FORM HAS BEEN OBTAINED.

1.08 SUBMITTALS

A. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THESE DOCUMENTS WILL BE MADE AVAILABLE EITHER IN ELECTRONIC OR HARD COPY FORM. UTILIZATION OF THESE DOCUMENTS FOR THE DEVELOPMENT OF SHOP DRAWINGS AND SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITIES REQUIRED HEREIN.

B. IN THE SUBMITTALS, THE CONTRACTOR MUST CLEARLY IDENTIFY ALL AREAS AND SECTIONS OF THIS SPECIFICATION TO WHICH THEY TAKE EXCEPTION OR ARE NOT CAPABLE OF PROVIDING.

C. SUBMITTALS WILL BE DISAPPROVED UNLESS REQUIRED EQUIPMENT LITERATURE, CALCULATIONS, AND COMPLETE SHOP DRAWINGS ARE SUBMITTED TOGETHER AS ONE PACKAGE FOR REVIEW.

D. THE ENGINEER SHALL REVIEW THE CONTRACTOR'S SUBMITTALS TO VERIFY CONFORMANCE TO THE PROJECT SPECIFICATIONS AND DESIGN CONCEPTS EXPRESSED IN THE CONTRACT DOCUMENTS.

E. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF SUCH SUBMITTALS IS NOT CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF DETAILS AND DIMENSIONS, OR SUBSTANTIATING INSTALLATION OR PERFORMANCE OF EQUIPMENT AND SYSTEMS DESIGNED BY THE CONTRACTOR, ALL OF WHICH REMAIN THE CONTRACTOR'S RESPONSIBILITY TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS.

F. THE ENGINEER'S REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OF CONSTRUCTION, MEANS, METHODS, TECHNIQUES, SEQUENCES OF PROCEDURES, OR APPROVAL OF A SPECIFIC ASSEMBLY.

G. PRIOR TO RELEASE OF EQUIPMENT FOR SHIPMENT OR INSTALLATION, SUBMIT TO THE ENGINEER THE FOLLOWING:

1. SHOP DRAWINGS. THE SPECIFIC QUANTITY TO BE SUBMITTED SHALL BE CONFIRMED WITH THE GENERAL CONTRACTOR AND OWNER. ELECTRONIC SUBMITTALS ARE ACCEPTABLE. SUBMITTAL MUST BE COMPREHENSIVE OF THE ENTIRE PROJECT, COMPLETE IN ALL DETAIL, AND INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   a. FLOOR PLANS SHOWING EQUIPMENT PLACEMENT, POINT TO POINT WIRING, WIRING TYPES AND SIZES, CONDUIT TYPES AND SIZES, WIRING AND RACEWAY ROUTES, AND PROPOSED MOUNTING METHODS FOR CONDUIT AND BACKBOXES. FLOOR PLANS SHALL BE AUTOCAD GENERATED.
   b. SEQUENCE OF OPERATIONS IN MATRIX FORM TO INCLUDE A DETAILED DESCRIPTION OF THE OPERATION OF EACH SYSTEM FUNCTION FOR ALL POSSIBLE CONDITIONS.
   c. RISER DIAGRAM SHOWING TYPICAL WIRING CONNECTIONS FOR EACH TYPE OF DEVICE AND MODULE.
   d. SUPERVISORY AND ALARM CURRENT CALCULATIONS FOR PRIMARY POWER AND EMERGENCY BATTERY SIZING OF ALL CONTROL PANELS AND AUXILIARY POWER SUPPLIES.
      1) BATTERY CALCULATIONS SHALL LIST THE TYPE OF DEVICES AND MODULES, QUANTITIES, AMPERAGE DRAW FOR STANDBY AND ALARM CONDITIONS FOR EACH DEVICE, THE TOTAL AMPERAGE DRAW FOR EACH PANEL, AND EACH PANEL'S BATTERY AMP/HOUR RATING.
      2) THE CALCULATED LOAD SHALL BE THE DESIGN LOAD, INCLUDING ALL REQUIRED SPARE CAPACITY.
      3) THE BATTERY CAPACITY USED TO MEET THE CALCULATED LOAD SHALL BE A MAXIMUM OF EIGHTY (80) PERCENT OF THE AMP/HOUR LISTED BY THE MANUFACTURER.
   e. A COMPLETE LIST OF ALL PROPOSED DEVICES AND THEIR ASSOCIATED ZONES AND CIRCUIT NUMBER.
   f. VOLTAGE DROP CALCULATIONS FOR ALL NOTIFICATION APPLIANCE CIRCUITS.
      1) CALCULATIONS SHALL FOLLOW THE VOLTAGE DROP CALCULATION CRITERIA AS OUTLINED IN NFPA 72 AND UL 864.
      2) CALCULATIONS SHALL USE THE WORST-CASE OPERATING VOLTAGE OF EACH CONTROL PANEL OR POWER SUPPLY AS A STARTING VOLTAGE. THE STARTING VOLTAGE SHALL BE 20.4 VDC UNLESS WRITTEN DOCUMENTATION IS PROVIDED CONFIRMING THAT THE SPECIFIC CONTROL PANEL OR POWER SUPPLY IS CAPABLE OF MAINTAINING A VOLTAGE HIGHER THAN 20.4 VDC.
      3) CALCULATIONS SHALL USE THE LOWEST OPERATING VOLTAGE OF THE NOTIFICATION APPLIANCES AND THE ASSOCIATED INCREASED CURRENT DRAW. THE LOWEST OPERATING VOLTAGE SHALL BE THE UL STANDARD OPERATING VOLTAGE OF 16 VDC, UNLESS APPROVED OTHERWISE BY THE ENGINEER.
2. MANUFACTURER'S LITERATURE ON ALL SYSTEM EQUIPMENT. THE SPECIFIC QUANTITY TO BE SUBMITTED SHALL BE CONFIRMED WITH THE GENERAL CONTRACTOR AND OWNER. ELECTRONIC SUBMITTALS ARE ACCEPTABLE. LITERATURE WHICH IS NOT CLEARLY IDENTIFIED WILL BE REJECTED.
   a. LITERATURE SHALL INCLUDE SPECIFICATION AND DESCRIPTION OF RECOMMENDED SUPPORTING METHODS, ENCLOSURES OR BOXES, AND WIRING CONNECTIONS.
   b. THE EXACT COMPONENTS TO BE UTILIZED ON THIS SPECIFIC PROJECT SHALL BE INDICATED, BY HIGHLIGHTING OR ARROWS, ON EACH DATA SHEET OF THE EQUIPMENT LITERATURE.
3. QUALIFICATIONS AND AUTHORIZATION OF THE REPRESENTATIVE OF THE FAEM.

H. THE ENGINEER SHALL REVIEW FOR ACCURACY ALL SUBMITTALS REQUIRED TO BE RECEIVED BY THE ENGINEER PRIOR TO EQUIPMENT RELEASE OR INSTALLATION. THE OWNER, OWNER'S REPRESENTATIVE, OR DESIGN FIRMS RETAINED BY THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM REPLACEMENT OF EQUIPMENT OR MATERIALS NOT REVIEWED PRIOR TO INSTALLATION.

I. AFTER SATISFACTORY REVIEW OF THE SUBMITTALS BY THE ENGINEER, THE CONTRACTOR SHALL SUBMIT ALL REQUIRED DRAWINGS, MANUFACTURERS' LITERATURE, CALCULATIONS AND ANY OTHER MATERIALS REQUIRED BY THE AHJ TO OBTAIN A PERMIT TO THE APPROPRIATE PARTY FOR REVIEW.

J. FORWARD TO THE ENGINEER A COPY OF THE TRANSMITTAL OF THE PERMIT APPLICATION.

K. FORWARD TO THE ENGINEER, IN WRITING, ANY COMMENTS FROM THE AHJ OR THE INSURANCE UNDERWRITER WITHIN FIVE (5) WORKING DAYS AFTER THE RECEIPT OF THEIR COMMENTS.

1.09 PROJECT RECORD DOCUMENTS

A. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON SITE AN UP-TO-DATE RECORD SET OF SATISFACTORY SHOP DRAWINGS WHICH SHALL BE MARKED TO SHOW EACH, AND EVERY CHANGE MADE TO THE FIRE ALARM SYSTEM FROM THE ORIGINAL APPROVED SHOP DRAWINGS. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION TO DEVIATE FROM OR MAKE CHANGES TO THE SHOP DRAWINGS REVIEWED BY THE ENGINEER WITHOUT WRITTEN INSTRUCTIONS FROM THE ENGINEER IN EACH CASE. THIS SET OF DRAWINGS SHALL BE ISSUED ONLY AS A RECORD SET. THESE DRAWINGS SHALL BE MADE AVAILABLE TO THE OWNER, OR THE OWNER'S REPRESENTATIVE, UPON REQUEST.

B. THE CONTRACTOR SHALL CONTINUALLY DOCUMENT SOFTWARE AND PROGRAMMING CHANGES. THIS DOCUMENTATION SHALL INCLUDE:

1. A COMPLETE PRINTOUT OF THE SYSTEM PRIOR TO THE CHANGE.
2. A COMPLETE PRINTOUT OF THE SYSTEM PROGRAM SUBSEQUENT TO THE CHANGE, WITH ALL MODIFICATIONS HIGHLIGHTED.
3. A LETTER PREPARED AND SIGNED BY THE INDIVIDUAL WHO MADE THE CHANGES, DESCRIBING EACH CHANGE MADE AND THE REASON FOR THE CHANGE. THIS LETTER SHALL CERTIFY THAT THE PROGRAMMER HAS PERSONALLY REVIEWED AND COMPARED THE BEFORE AND AFTER PROGRAM PRINTOUT AND VERIFIED THE CORRECTNESS OF THE MODIFICATION(S).
4. AN EQUIVALENT MEANS PERFORMED AUTOMATICALLY IN COMPUTER SOFTWARE, WHICH VERIFIED THE RESULTS OF CHANGES MADE IS ACCEPTABLE.

C. ONCE THE FIRE ALARM SYSTEM IS PUT INTO SERVICE, IN WHOLE OR IN PART, AND THE ASSOCIATED BUILDING(S) ARE PARTIALLY OR WHOLLY OCCUPIED, NO SOFTWARE CHANGES SHALL BE PERFORMED WITHOUT PRIOR WRITTEN PERMISSION OF THE OWNER, OR OWNER'S REPRESENTATIVE.

D. ONLY A CERTIFIED MANUFACTURER'S REPRESENTATIVE TRAINED IN THE SPECIFIC PROGRAMMING SOFTWARE SHALL MAKE CHANGES TO THE FIRE ALARM SYSTEM SOFTWARE ONCE THE SYSTEM IS IN SERVICE.

E. EACH REVISION TO THE SOFTWARE SHALL BE IDENTIFIED BY A UNIQUE VERSION NUMBER AND DATE.

F. PRIOR TO FINAL PAYMENT FOR THE FIRE ALARM SYSTEM AND THE BEGINNING OF THE WARRANTY PERIOD, SUBMIT A CD ROM AND TWO (2) SETS (OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE) OF THE FOLLOWING COMPLETED PROJECT RECORD DOCUMENTS TO THE OWNER'S REPRESENTATIVE:

1. COPIES OF ALL TEST AND INSPECTION REPORTS AS REQUIRED BY THE AHJ AND NFPA 72:
   a. THE RECORD OF COMPLETION FORM SHALL BE IN THE FORMAT AS OUTLINED IN NFPA 72.
   b. THE INSPECTION AND TESTING FORM SHALL BE IN THE FORMAT AS OUTLINED IN NFPA 72.
2. ALL PERMITS AND LICENSES REQUIRED TO BE IN THE POSSESSION OF THE OWNER BY THE AHJ.
3. ACCURATE RECORD (AS-BUILT) DRAWINGS OF THE COMPLETE INSTALLATION TO INCLUDE, BUT NOT BE LIMITED TO, THE INFORMATION REQUIRED FOR THE SHOP DRAWINGS. RECORD DRAWINGS OF THE FLOOR PLANS SHALL BE AUTOCAD GENERATED.
4. ORIGINAL WARRANTY DOCUMENTS INCLUDING, BUT NOT LIMITED TO, THOSE OF THE FAEM. WARRANTY DOCUMENTS SHALL REFERENCE AND BE BINDING TO THE WARRANTY PROVISIONS SPECIFIED IN THE WARRANT PORTION OF THIS SPECIFICATION.
5. SUBMIT TO THE ENGINEER A COPY OF THE TRANSMITTAL TO THE OWNER'S REPRESENTATIVE FOR ALL FINAL COMPLETE PROJECT RECORD DOCUMENTS.

G. UPON COMPLETION OF CONSTRUCTION, SUBMIT TWO (2) SETS AND A CD ROM OF EQUIPMENT WARRANTIES AND TWO (2) SETS AND A CD ROM OF INSTALLATION, OPERATIONS AND MAINTENANCE INSTRUCTIONS TO THE OWNER'S REPRESENTATIVE. THIS MANUAL SHALL REFLECT THE COMPLETED INSTALLATION AND INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING INFORMATION:

1. A DETAILED NARRATIVE DESCRIPTION OF THE SYSTEMS ARCHITECTURE, INPUTS, EVACUATION SIGNALING, AUXILIARY FUNCTIONS, ANNUNCIATION, SEQUENCE OF OPERATION, EXPANSION CAPABILITY, APPLICATION CONSIDERATIONS AND LIMITATIONS.
2. A DETAILED DESCRIPTION OF ROUTINE MAINTENANCE REQUIRED OR RECOMMENDED, OR AS WOULD BE PROVIDED UNDER A MAINTENANCE CONTRACT, INCLUDING A TESTING SCHEDULE AND DETAILED MAINTENANCE INSTRUCTIONS FOR EACH TYPE OF DEVICE INSTALLED.
3. DETAILED TROUBLESHOOTING INSTRUCTIONS FOR EACH POSSIBLE TROUBLE CONDITION.
4. AN EQUIPMENT LIST/SCHEDULE DETAILING ALL EQUIPMENT AND QUANTITIES INSTALLED. THE MANUFACTURER'S PRODUCT MODEL/IDENTIFICATION NUMBER SHALL BE SHOWN NEXT TO EACH PIECE OF EQUIPMENT ON THE LIST.
5. UPDATED MANUFACTURER'S DATA SHEETS AND INSTALLATION MANUALS/INSTRUCTIONS FOR ALL EQUIPMENT INSTALLED.
6. UPDATED LIST OF SPARE PARTS AND ACCESSORIES RECOMMENDED BY THE MANUFACTURER SHALL BE STOCKED FOR MAINTENANCE OF THE SYSTEM.
7. A DETAILED DESCRIPTION OF THE OPERATION OF THE SYSTEMS, INCLUDING OPERATOR RESPONSES. COPIES OF THE APPROVED SEQUENCE OF OPERATION SHALL BE PLACED IN, OR ADJACENT TO THE CONTROL PANEL.

H. A COPY OF ALL SOFTWARE DOCUMENTATION REQUIRED BY THIS SECTION SHALL BE MAINTAINED ON-SITE BY THE CONTRACTOR, IN A BINDER, ARRANGED IN CHRONOLOGICAL ORDER. THIS BINDER SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT THE COMPLETION OF THE PROJECT.

1.10 WARRANTY

A. REPAIR ALL DEFECTIVE WORKMANSHIP OR REPLACE ALL DEFECTIVE MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. WORKMANSHIP OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

B. THE WARRANTY OR ANY PART OF THE WARRANTY SHALL NOT BE MADE VOID BY ANY REQUIRED OPERATION OR INSPECTION OF THE SYSTEM AFTER ACCEPTANCE DURING THE WARRANTY PERIOD. THE OWNER MAY SELECT QUALIFIED FIRMS OTHER THAN WARRANTOR TO PROVIDE REQUIRED TESTS AND INSPECTIONS. SYSTEM TESTING AND INSPECTIONS WILL BE CONDUCTED ONLY BY A DULY LICENSED COMPANY UNDER CONTRACT WITH THE OWNER TO PERFORM SCHEDULED TESTING AND INSPECTIONS AS REQUIRED BY THE AHJ. THE OWNER MAY ELECT TO HAVE A REPRESENTATIVE PRESENT AT THE SCHEDULED TESTING DURING THE WARRANTY PERIOD.

PART 2 - PRODUCTS

2.01 CONTROL PANELS

A. THE FIRE ALARM CONTROL PANEL SERVICING THE TENANT SPACE IS EXISTING TO REMAIN.

2.02 AUXILIARY POWER SUPPLIES

A. PROVIDE EACH AUXILIARY POWER SUPPLY (APS) IN AN INDIVIDUAL, SINGLE, SELF-CONTAINED, LOCKABLE CABINET.
B. INPUT SHALL BE 120 VOLT AC NOMINAL WITH AN OUTPUT OF REGULATED 24 VOLT DC. THE APS SHALL OPERATE FROM A DEDICATED 120 VOLT AC SOURCE WITH A LISTED SECONDARY POWER SOURCE CONFORMING TO THE SAME ALARM AND STANDBY TIME REQUIREMENTS AS THE FACP.
C. EACH APS SHALL BE CAPABLE OF ACTUATION FROM EITHER THE CONTROL PANEL NOTIFICATION CIRCUIT, OR PROGRAMMED DRY CONTACTS.
D. EACH APS SHALL PROVIDE "TROUBLE" INDICATION TO THE CONTROL PANEL UPON LOSS OF AC POWER, LOW BATTERY OR ABNORMAL CONDITIONS ON INDIVIDUAL OUTPUT CIRCUITS.
E. EACH APS SHALL HAVE A MINIMUM OF FOUR (4) CLASS B SUPERVISED OUTPUT NOTIFICATION CIRCUITS RATED INDIVIDUALLY AT A MINIMUM OF TWO (2.0) AMPERES AVAILABLE PER CIRCUIT, WITH A TOTAL OUTPUT OF EIGHT (8.0) AMPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REDESIGN, CIRCUITING, AND ADDITIONAL EQUIPMENT COSTS TO PROVIDE THE NECESSARY OUTPUT AMPERAGE.
F. EACH APS SHALL HAVE A MINIMUM OF TWENTY (20) PERCENT SPARE CAPACITY ON EACH CIRCUIT. THE TWENTY (20) PERCENT SPARE CAPACITY SHALL BE APPLIED ASSUMING THE TOTAL AVAILABLE CURRENT IS DIVIDED EQUALLY BETWEEN ALL AVAILABLE CIRCUITS.

2.03 REMOTE LCD ANNUNCIATOR PANEL

A. PROVIDE A REMOTE ANNUNCIATOR WITH A MINIMUM FORTY (40) CHARACTER LIQUID CRYSTAL DISPLAY (LCD) WHICH MIMICS THE FIRE ALARM CONTROL PANEL DISPLAY. THE REMOTE ANNUNCIATOR SHALL HAVE AN ENABLE KEY FOR OPERATION OF INTEGRAL ACKNOWLEDGE, RESET AND SILENCE SWITCHES. THE REMOTE ANNUNCIATOR SHALL DERIVE ALL OPERATIONAL POWER FROM THE FIRE ALARM CONTROL PANEL.

2.04 ADDRESSABLE MONITOR MODULES

A. PROVIDE ADDRESSABLE MONITOR MODULES WHERE REQUIRED TO INTERFACE WITH CONTACT ALARM DEVICES, OR TO CONNECT A SUPERVISED ZONE OF CONVENTIONAL INITIATING DEVICES (ANY NORMALLY OPEN DRY CONTACT DEVICE) TO AN INTELLIGENT SLC LOOP.

B. PROVIDE ADDRESS-SETTING MEANS AND STORE AN INTERNAL IDENTIFICATION CODE WHICH THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE. FLASH STATUS/POWER LED UNDER NORMAL CONDITIONS, INDICATING THAT THE MONITOR MODULE IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL.

C. THE LED MAY BE PLACED INTO STEADY ILLUMINATION BY THE CONTROL PANEL, INDICATING THAT AN ALARM CONDITION HAS BEEN DETECTED. WHERE STATUS LED IS PROVIDED, MANUFACTURER PROVIDED COVER PLATE WITH VIEWING HOLE SHALL BE PROVIDED.

D. PROVIDE AN AUTOMATIC TEST FEATURE TO PERMIT FUNCTIONAL TESTING OF THE DEVICE FROM THE MAIN CONTROL PANEL. INDICATE RESULTS OF THE TEST ON THE LCD DISPLAY AT THE CONTROL PANEL.

E. MONITOR MODULES WITH MULTIPLE INPUT CONTACT CONNECTIONS ARE ACCEPTABLE IF EACH INPUT IS CAPABLE OF INDEPENDENT PROGRAMMING AND FUNCTIONAL OPERATION.

F. COMPATIBLE WITH THE EXISTING FIRE ALARM CONTROL PANEL.

2.04 CONTROL/RELAY MODULES

A. PROVIDE ADDRESSABLE CONTROL/RELAY MODULES WHERE REQUIRED TO INTERFACE WITH A DRY CONTACT (FORM C) RELAY. PROVIDE POWER FOR THE RELAY ACTUATION FROM THE INTELLIGENT SLC LOOP.

B. MINIMUM RATING OF FORM C CONTACTS SHALL BE TWO (2.0) AMPERES AT 24 VOLTS AND ONE HALF (0.5) AMPERES AT 120 VOLTS AC.

C. PROVIDE ADDRESS-SETTING MEANS AND STORE AN INTERNAL IDENTIFICATION CODE WHICH THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE. FLASH STATUS LED UNDER NORMAL CONDITIONS, INDICATING THAT THE CONTROL MODULE IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL. THE LED MAY BE PLACED INTO STEADY ILLUMINATION BY THE CONTROL PANEL, INDICATING THAT AN ALARM CONDITION HAS BEEN DETECTED. WHERE STATUS LED IS PROVIDED, MANUFACTURER PROVIDED COVER PLATE WITH VIEWING HOLE SHALL BE PROVIDED.

D. CONTROL/RELAY MODULES WITH MULTIPLE OUTPUT CONTACT CONNECTIONS ARE ACCEPTABLE IF EACH OUTPUT IS CAPABLE OF INDEPENDENT PROGRAMMING AND FUNCTIONAL OPERATION.

E. COMPATIBLE WITH THE EXISTING FIRE ALARM CONTROL PANEL.

2.05 INTELLIGENT PHOTOELECTRIC SMOKE DETECTORS

A. PROVIDE ANALOG PHOTOELECTRIC TYPE SMOKE DETECTORS WITH THE CAPABILITY TO SEND DATA, ON COMMAND, TO THE CONTROL PANEL REPRESENTING THE ANALOG LEVEL OF SMOKE DENSITY.

B. PROVIDE A "MAINTENANCE ALERT" FEATURE WHEREBY THE DETECTOR INITIATES A TROUBLE CONDITION SHOULD THE UNITS' SENSITIVITY APPROACH THE OUTSIDE LIMITS OF THE NORMAL SENSITIVITY WINDOW.

1. PROVIDE ADDRESS-SETTING MEANS AND STORE AN INTERNAL IDENTIFICATION CODE FOR EACH DETECTOR WHICH THE CONTROL PANEL CAN USE TO IDENTIFY THE TYPE AND PRECISE LOCATION OF THE DETECTOR.

C. PROVIDE DUAL ALARM AND POWER/STATUS LED'S. FLASH STATUS LED'S UNDER NORMAL CONDITIONS, INDICATING THAT THE DETECTOR IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL. BOTH LED'S MAY BE PLACED INTO STEADY ILLUMINATION BY THE CONTROL PANEL, INDICATING THAT AN ALARM CONDITION HAS BEEN DETECTED AND VERIFIED.

D. PROVIDE A LOW-PROFILE DESIGN MODULAR DETECTOR HEAD WITH TWIST-LOCK BASE.

E. COMPATIBLE WITH THE EXISTING FIRE ALARM CONTROL PANEL.

2.06 MANUAL PULL STATIONS

A. ADDRESSABLE MANUAL PULL STATIONS
1. PROVIDE DUAL ACTION TYPE MANUAL PULL STATIONS. MANUAL PULL STATIONS SHALL BE DESIGNED THAT UPON ACTIVATION, SHALL INITIATE A CHANGE OF STATUS AT THE CONTROL PANEL. THE MANUAL PULL STATIONS SHALL NOT BE AUTOMATICALLY RESETTABLE AND SHALL INCLUDE A VISIBLE INDICATION OF THE MANUAL PULL STATION BEING ACTIVATED.
2. PROVIDE ADDRESS-SETTING MEANS AND STORE AN INTERNAL IDENTIFICATION CODE WHICH THE CONTROL PANEL CAN USE TO IDENTIFY THE TYPE OF DEVICE.
3. CONSTRUCT OF HI-IMPACT RED MOLDED LEXAN WITH INSTRUCTIONS FOR STATION OPERATION IN RAISED WHITE LETTERS.
4. PROVIDE FLUSH MOUNTING OF PULL STATIONS. WHERE FLUSH MOUNTING IS NOT POSSIBLE, BRING TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD FOR RESOLUTION.
5. PROVIDE MOUNTING ON BACKBOXES UL LISTED FOR USE WITH THE PULL STATION.

2.07 NOTIFICATION APPLIANCES

A. VISUAL NOTIFICATION APPLIANCES - CEILING MOUNTED

1. PROVIDE VISUAL NOTIFICATION APPLIANCES OPERABLE AT 24-VOLT DC AND POLARIZED SUPERVISION. THE APPLIANCES SHALL UTILIZE A HIGH INTENSITY SOLID STATE XENON STROBE TUBE WITH ASSOCIATED LENS/REFLECTOR SYSTEM. THE APPLIANCES SHALL BE CONSTRUCTED OF HIGH IMPACT RED THERMOPLASTIC, SHALL INDICATE "FIR

HVAC ABBREVIATIONS

ACC	AIR COOLED CONDENSING UNIT (HVAC)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
CD	CEILING DIFFUSER
CU	CONDENSING UNIT (COOLER)
EF	EXHAUST FAN
ER	EXHAUST REGISTER
(E)/EXT'G	EXISTING
HD	HOOD
MAU	MAKEUP AIR UNIT
OBD	BLADE DAMPER
RG	RETURN GRILL
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL

SUPPLIER/VENDOR ABBREVIATIONS

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT SEALING MASTIC
	EXPOSED GEN. EXHAUST	RECTANGULAR, NO EXPOSED DUCT SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, GEN. EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 12 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)

HVAC SYMBOLS

- CEILING DIFFUSER
- CEILING-MOUNTED RETURN REGISTER
- CEILING-MOUNTED EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- W'xH' — DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH x HEIGHT)
- RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR
- M — MOTOR-OPERATED DAMPER
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- T — GRIDPOINT THERMOSTAT
- S — GRIDPOINT ZONE SENSOR MODULE
- S — GRIDPOINT SUPPLY PROBE
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- XXX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-600 FOR EQUIPMENT INFORMATION
- A/V — AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
- M — MOTORIZED DAMPER
- FD/AD — FIRE DAMPER W/ ACCESS DOOR
- CD-1 / 12" ROUND / 550 CFM — GRILL, REGISTER, OR DIFFUSER TAG / NECK SIZE / AIRFLOW

HVAC GENERAL NOTES

A. GENERAL NOTES APPLY TO HVAC SHEETS.

B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE SHEET G-001 FOR THE PREVAILING CODES.

C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I. UNLESS NOTED OTHERWISE, RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.

J. REPLACE AIR FILTERS WITH NEW, CLEAN, MERV 7 AIR FILTERS AT TURNOVER.

K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

L. PROVIDE LABELING CALLED FOR IN THE HVAC PLANS USING ENGRAVED PHENOLIC PLATES.

M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNITRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCETABLE.

HVAC SPECIFICATIONS

SECTION 15738 - SPLIT SYSTEM AIR CONDITIONING UNITS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product data, including rated capacities accounting for outside air and including weights.
B. EER: Greater than or equal to values prescribed in 2020 NYCECC.
C. Comply with ASHRAE 15.

PART 2- PRODUCTS
2.1 EVAPORATOR CASING
A. Heavy gauge galvanized steel
B. Removable access panels for servicing
C. Completely insulated with foil faced, cleanable, fire retardant odorless glass fiber material.

2.2 EVAPORATOR COIL
A. Copper tubing mechanical bonded to aluminum fins
B. Draw through airflow
C. Double-sloped, removable, cleanable composite drain pan

2.3 INDOOR FAN
A. Adjustable belt drive
B. Forward curved, centrifugal fan
C. Permanently lubricated bearings

2.4 CONDENSING UNIT
A. Hermetic scroll compressor(s)
B. Crankcase heater
C. Evaporator defrost control

PART 3 - EXECUTION
3.1 INSTALLATION
A. Install air handling units and condensing units, and duct furnaces level and plumb.
B. Install air handling unit and duct furnace components using manufacturer's standard mounting devices securely fastened to the building structure.
C. Connect gas piping to duct furnace. Provide pipe unions and shut off valves and sufficient clearance for burner service and removal.
D. Connect refrigerant piping to and between air handling units and condensing units to allow service and maintenance.
E. Ground all equipment.
END OF SECTION 15738

SECTION 15810 - DUCTS AND ACCESSORIES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data for fire and smoke dampers.
B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," Chapter 3, "Duct System," for range hood ducts, except single family residential usage, unless otherwise indicated.
E. Comply with UL 181 and UL 181A for ducts and closures.
F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified.
PART 2 - PRODUCTS
2.1 DUCTS
A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 6.3.
1. Adhesive: ASTM C 916, Type I.
2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
D. Joint and Seam Tape: Comply with UL 181A.
E. Joint and Seam Sealant: Comply with UL 181A.
F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.
2.2 ACCESSORIES
A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
C. Avoid passing through electrical equipment spaces and enclosures.
D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
F. Install liner on all supply and return duct.
G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
I. Install fusible links in fire dampers.
J. Provide saddle taps at tees for exposed ductwork.
3.2 TESTING, ADJUSTING, AND BALANCING
A. The owner will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
B. The general contactor is to have trained staffed available during the balancing to correct issues noted by the balance agent.
C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
D. The balance agent is to supply a copy of the balance report to the owner, engineer and general contractor for review.
END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 OUTLETS AND INLETS
A. Diffusers:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As scheduled.
5. Mounting: As scheduled.
B. Wall and Ceiling Registers:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As Scheduled.
5. Mounting: Countersunk screw.
C. Wall and Ceiling Grilles:
6. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
7. Manufacturer: As scheduled (NO SUBSTITUTIONS)
8. Material: As scheduled.
9. Finish: As Scheduled.
10. Mounting: Countersunk screw or lay in depending location.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
B. Locate ceiling diffusers, registers, and grilles, as indicated on general construction "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.
END OF SECTION 15855

SECTION 15900 - HVAC INSTRUMENTATION AND CONTROLS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Electric/electronic control sequences for HVAC systems and equipment.
B. Submittals: Shop Drawings detailing operating control sequences of each item of HVAC equipment and system and Product Data for controllers, sensors, operators, control panels, thermostats, humidistats, actuators, control valves and dampers.
C. System Description: Control systems consists of sensors, indicators, actuators, final control elements, interface equipment, and other apparatus, accessories, required to operate mechanical systems according to sequences of operation indicated and specified.
D. Operation Sequence:
1. Unoccupied Cycle: During unoccupied hours, as set by the Energy Management System, the outside air dampers for the indoor HVAC unit close,the return air dampers move to pull open, the exhaust fans are de-energized, and the thermostat set point resets to 65° F (user adjustable). Upon a call for heating, the indoor HVAC unit supply fan and the supplemental electric duct heater shall be energized to maintain set point.
2. Occupied Cycle: During occupied hours, as set by the Energy Management System, the outside air and return dampers open to a minimum set point. The indoor HVAC unit supply fan and exhaust fans run continuously. Upon a call for heating, the supplemental electric duct heater shall be energized to maintain set point. Upon a call for cooling, the outdoor HVAC unit (compressor) shall be energized to maintain set point.
A. Economizer: When outdoor conditions allow as determined by the indoor HVAC unit's outdoor air enthalpy sensor, the unit shall utilize economizer mode to de-energize the compressor and provide free cooling using 100% outside air.

PART 2 - PRODUCTS (Not Applicable)
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install control wiring concealed, except in mechanical rooms, and according to requirements specified in Division 16 Sections.
END OF SECTION 15900

Consultant:

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DRAWN BY: PCE
CHECKED BY: AJS

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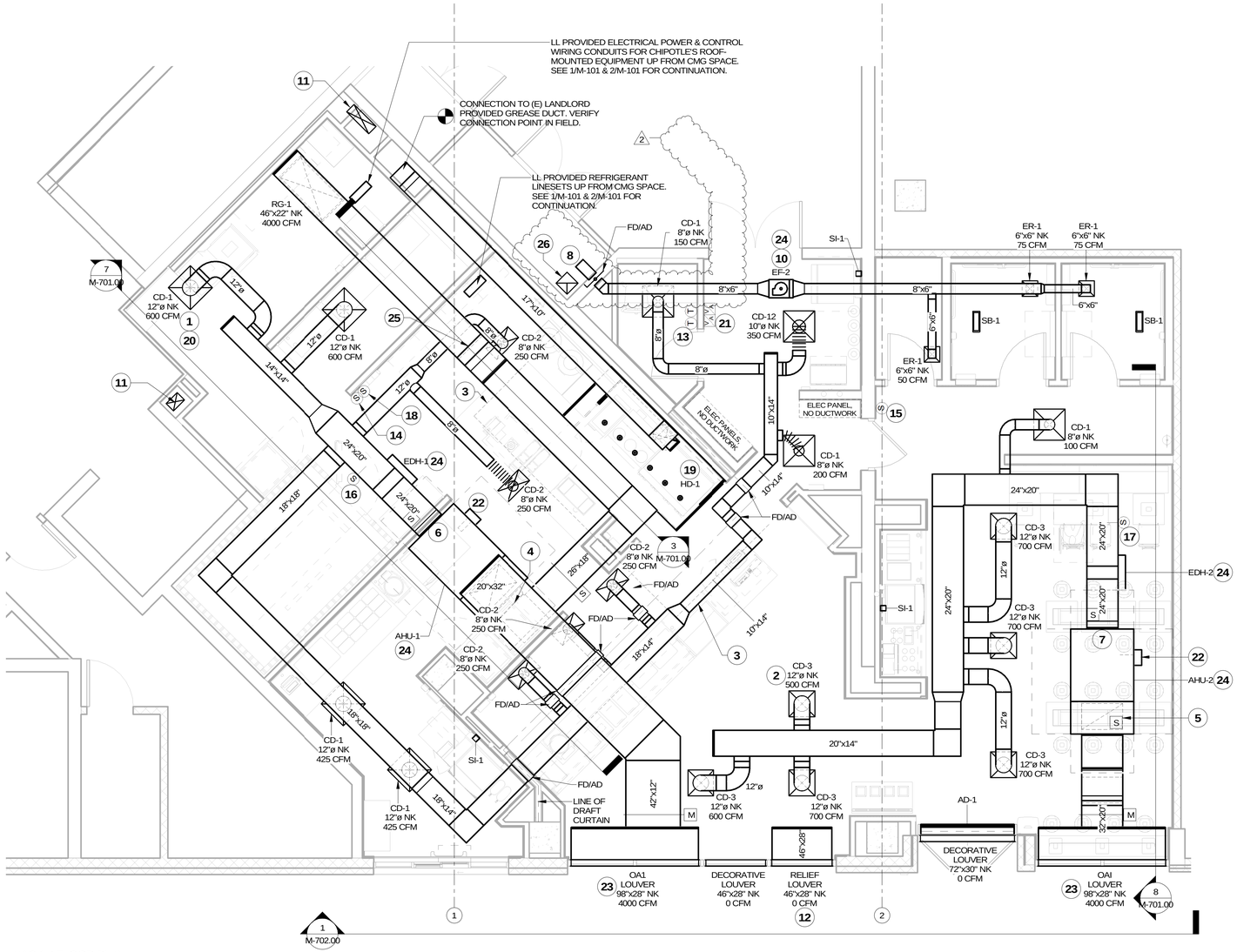
SHEET TITLE:
MECHANICAL SPECIFICATIONS, SYMBOLS, & GENERAL INFORMATION

SHEET NUMBER:
M-010.00
1 OF 12

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2024-DB#2/P#1-4

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2	PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3	NO SUPPLY DIFFUSERS SHOULD BE LOCATED CLOSER THAN 4' FROM THE HOOD AND SHOULD BE PERFORATED CEILING DIFFUSERS WITH THE DEFLECTORS REMOVED SO THAT AIR DROPS STRAIGHT DOWN, RATHER THAN POTENTIALLY AFFECTING THE HOOD CAPTURE. THESE CEILING DIFFUSERS SHOULD NOT BE PLACED OVER EQUIPMENT OR PREP SURFACES. TYPICAL.
4	26/18 DUCT TO TRANSITION TO AHU-1 RETURN CONNECTION ON REAR OF ECONOMIZER MIXING BOX. AHU-1 SHALL HAVE A FIELD SUPPLIED, FIELD INSTALLED SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM, PRIOR TO THE MIXING OF ANY AIR. INTERLOCK SMOKE DETECTOR TO AHU-1 OPERATION.
5	32/20 DUCT FULL-SIZE OF AHU-2 RETURN CONNECTION ON BOTTOM OF ECONOMIZER MIXING BOX. AHU-2 SHALL HAVE A FIELD SUPPLIED, FIELD INSTALLED SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM, PRIOR TO THE MIXING OF ANY AIR. INTERLOCK SMOKE DETECTOR TO AHU-2 OPERATION. 32/20 R.A. OPENING ON BOTTOM OF MIXING BOX TO TERMINATE ABOVE SLATTED CEILING SYSTEM WITH 80% FREE AREA METAL MESH SCREENING.
6	24/20 DUCT TO TRANSITION TO AHU-1 SUPPLY CONNECTION. AHU-1 SHALL HAVE A FIELD SUPPLIED, FIELD INSTALLED SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM, PRIOR TO THE 1ST BRANCH DUCT. INTERLOCK SMOKE DETECTOR TO AHU-1 OPERATION.
7	24/20 DUCT TO TRANSITION TO AHU-2 SUPPLY CONNECTION. AHU-2 SHALL HAVE A FIELD SUPPLIED, FIELD INSTALLED SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM, PRIOR TO THE 1ST BRANCH DUCT. INTERLOCK SMOKE DETECTOR TO AHU-2 OPERATION.
8	CONNECT TO LANDLORD PROVIDED INLINE EXHAUST FAN 'GX-6' IN THIS LOCATION. VERIFY EXISTING CONDITIONS & TIE-IN LOCATION IN FIELD. PROVIDE BACKDRAFT DAMPER AT CONNECTION TO LANDLORD DUCTWORK.
9	17/10 DUCT UP FROM HOOD TO CONNECT TO (E) LANDLORD PROVIDED GREASE DUCT FROM 8TH FLOOR ROOF, STUBBED INTO SPACE THROUGH SLAB ABOVE. VERIFY CONNECTION POINT IN FIELD. ALL NEW GREASE DUCT SHALL BE COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT. PROVIDE DUCT CLEANOUT ACCESS DOOR AT ALL CHANGES IN DIRECTION AND AT LINEAR INTERVALS PER LOCAL CODE.
10	8/6 INLET AND OUTLET DUCTS TO TRANSITION TO EF-2 DUCT CONNECTION. SEE DETAIL 6/M-701.
11	(E) BASE BUILDING DUCTWORK RISER TO REMAIN, V.I.F..
12	PROVIDE RELIEF LOUVER, SIZED AS SHOWN, AND 24" DEEP INSULATED, GALVANIZED STEEL, PLENUM BOX ON REAR OF LOUVER. VERIFY EXISTING LOUVER BAND DIMENSIONS IN FIELD. PLENUM BOX TO BE OPEN ENDED INSIDE SPACE WITH BAROMETRIC RELIEF DAMPER IN DUCTWORK.
13	INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR AHU-1 AND AHU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL THERMOSTAT WITH CORRESPONDING UNIT.
14	INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR AHU-1 AT THIS LOCATION AT 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL SENSOR WITH CORRESPONDING UNIT.
15	INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION AT 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. LABEL SENSOR WITH CORRESPONDING UNIT.
16	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR AHU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17	INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR AHU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18	INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION AT 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL. LABEL SENSOR "HD-1".
19	INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST FAN IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 4/M-700, 2/M-701, AND 3/M-701. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20	PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 6/M-700. TYPICAL.
21	CONTRACTOR TO FURNISH & INSTALL AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. LABEL ANNUNCIATOR WITH CORRESPONDING UNIT. TYPICAL OF (4).
22	INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN AHU (OR SUPPLY DUCTWORK) PER DETAIL 5/M-700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY AHU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
23	PROVIDE INTAKE LOUVER, SIZED AS SHOWN. PROVIDE 24" DEEP INSULATED, GALVANIZED STEEL, PLENUM BOX ON REAR OF LOUVER AND MOTORIZED DAMPER ON DUCT CONNECTION PER 3/M-702. VERIFY EXISTING LOUVER BAND DIMENSIONS IN FIELD.
24	INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
25	OFFSET DUCTWORK US AS REQUIRED TO CROSS R.A. AND S.A. DUCT IN THIS AREA & MAKE CONNECTION TO RG-1 IN B.O.H..
26	VERIFY (E) EXHAUST DUCT STUB AND / OR EXHAUST AIR GRILLE IN TRASH ROOM. CONNECTED TO BASE BUILDING 'GX-5' EXHAUST FAN TO BE PROVIDED BY LANDLORD UNDER SEPARATE CONTRACT. NOTIFY CHIPOTLE GC & CM IF NOT PRESENT.



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

2024-DB#2/P#1-4

Consultant:

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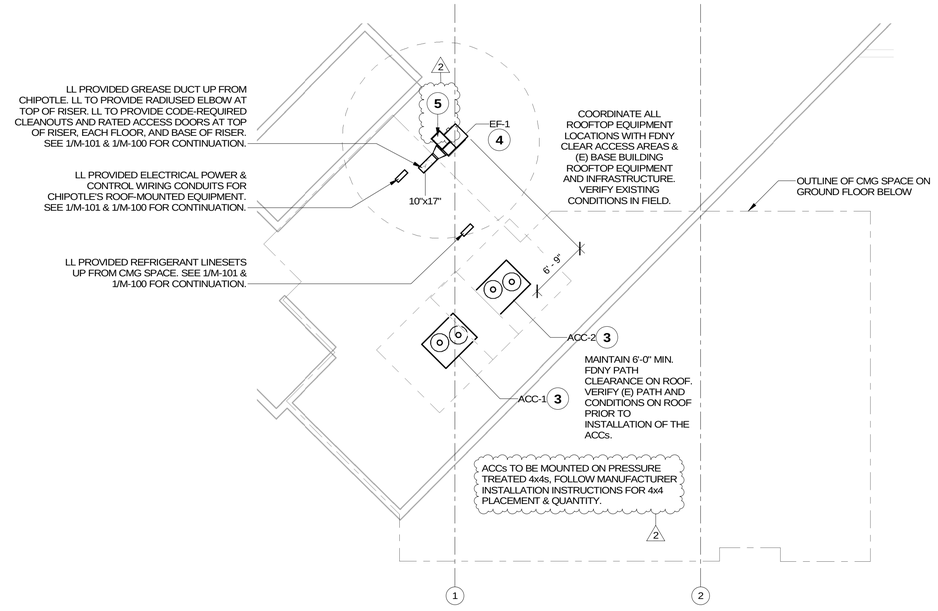
PROJECT NUMBER:
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SHEET TITLE:
1st FLOOR HVAC PLAN

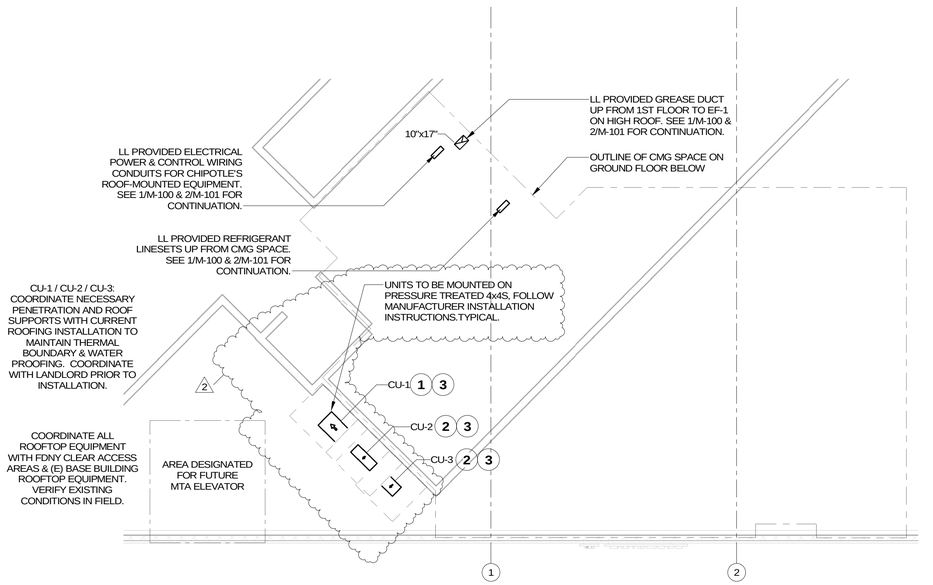
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M-100.00
2 OF 12

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KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON WALL AT 1ST FLOOR ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3'-0" OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
2	INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3'-0" OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MACHINE IS EXPOSED TO PUBLIC VIEW, CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
3	INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4	INSTALL EXHAUST FAN EF-1 PER DETAIL 8/M-700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL MANUFACTURER PROVIDED GREASE COLLECTION CUP ON DRAIN OF EF-1.
5	PROVIDE DUCT EXTENSION ON EF-1 OUTLET. OFFSET EXTENSION AT 45 DEG. TO ACHIEVE MAXIMUM CLEARANCE FROM ROOF OF BOILER ROOM 901. EXTENSION SHALL BE A MINIMUM OF 12" ABOVE ADJACENT BOILER ROOM 901 ROOF HEIGHT. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO DUCTWORK EXTENSION FABRICATION.



2 HVAC 8th FLOOR ROOF PLAN
1/8" = 1'-0"



1 HVAC 1st FLOOR ROOF PLAN
1/8" = 1'-0"

2024-DB#2/P#1-4

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
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SHEET TITLE:
1st & 8th FLOOR HVAC ROOF PLANS

SHEET NUMBER:
M-101.00
3 OF 12

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HOOD SHOP DRAWING PRODUCED BY MANUFACTURER - FOR REFERENCE ONLY

FOR QUESTIONS, CALL THE
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REGION 40
PHONE: (919) 875 - 0420
EMAIL: reg40@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION – JOB#6701220

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1		5424 ND-2	CAPTIVEAIRE	9' 4"	600 DEG	I	HEAVY	204	1900	10"	18"	4"		1900	1520	-0.818"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM-PIPING	HOOD HANGING WEIGHT
										FIRE SYSTEM		ELECTRICAL	SWITCHES		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY		
1		CAPTRATE SOLO FILTER	7	16"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	983 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		NYC CONSTRUCTION.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FULL DIMENSION HANGING BRACKET - FRONT.

FIRE SYSTEM INFORMATION – JOB#6701220

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET LEFT	LEFT, HOOD 1

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTRE FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

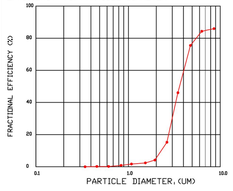
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

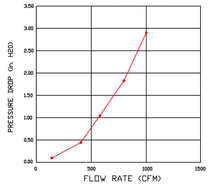
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER

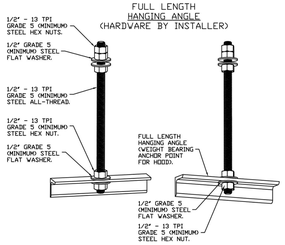


PRESSURE DROP VS. FLOW RATE



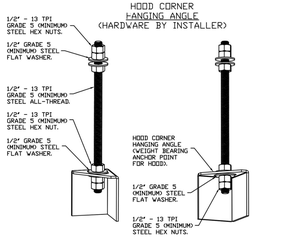
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.





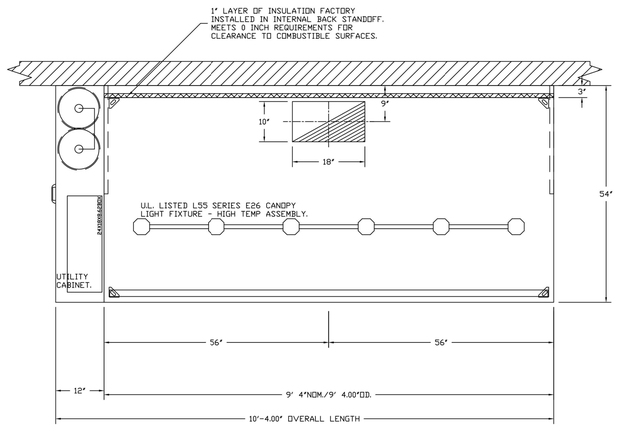
ASSEMBLY INSTRUCTIONS

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

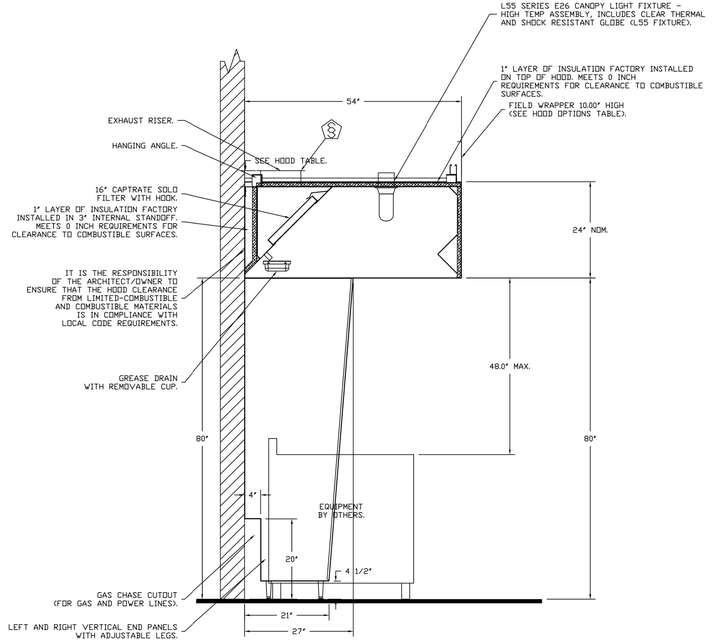


ASSEMBLY INSTRUCTIONS

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



PLAN VIEW – HOOD #1
9' 4.00" LONG 5424ND-2



SECTION VIEW – MODEL 5424ND-2
HOOD – #1

Consultant:
Polaris Consulting Engineers, PC
214 W. Main Street, Suite 208
Moorestown, NJ 08057
(856) 778-5400

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CHIPOTLE #4872 BROOKLYN, NY
1510 Broadway,
Brooklyn, NY, 11221

DATE: 3/26/2024

DWG.#: 6701220

DRAWN BY: ZDH

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

MASTER DRAWING

SHEET NO. 1

STORE NO.: 31-4872
'BEDFORD STUYVESANT'
1510 BROADWAY
BROOKLYN, NY 11221

REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER: 22151

SHEET TITLE:
CAPTIVEAIRE DRAWINGS

SHEET NUMBER:
M-401.00
4 OF 12

DOB NOW Filing #: B01050687-S1

2024-DB#2/P#1-4

HOOD SHOP DRAWING PRODUCED BY MANUFACTURER - FOR REFERENCE ONLY

EXHAUST FAN INFORMATION – JOB#6701220

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	USBI15DD-RM	CAPTIVEAIRE	1900	2.000	1695	ODP,PREMIUM	2.000	1.0880	3	208	6.1	1321 FPM	294	20
2	EF-2	1	CFA 250CA	CAPTIVEAIRE	200	0.500	752	GENERAL,PURPOSE	0.222	0.1640	1	115	2.1		30	N/A

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	BI15 – INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 16" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	BI15 – 24" DISCHARGE EXTENSION
		1	BI – DISCHARGE ORIENTATION VERTICAL UPPER LEFT – CW INLET SIDE
		1	BI15 – INLET CONNECTION STANDARD 16" FLANGED GREASE DUCT
		1	UTILITY SET – SPRING VIBRATION ISOLATORS – BI11 THRU BI15 / EQUIVALENT SIZED UTILITY SET – INDOOR/OUTDOOR USE
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	STRAIGHT THROUGH DISCHARGE – ASSEMBLY – CFA INLINE
		1	FAN CONTROL – 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS
		1	CEILING VIBRATION HANGERS
		1	RDI– RADIATION DAMPER
		1	2 YEAR PARTS WARRANTY

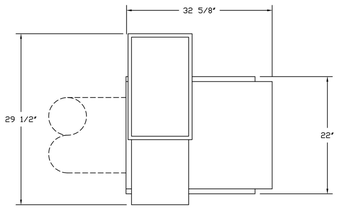
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2							

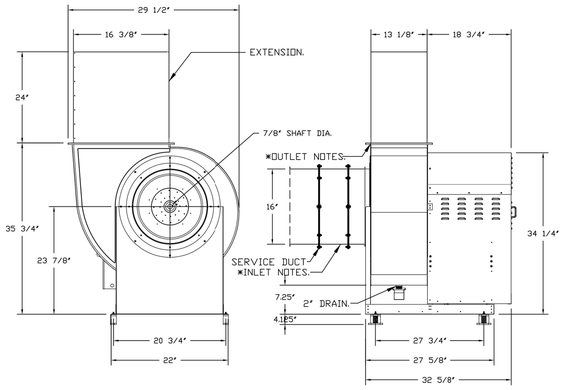
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	38 LBS	RAIL	4.000"W X 36.000"L X 20.000"H COMES AS A SET OF 2.

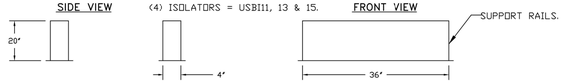
FAN #1 USBI15DD-RM – EXHAUST FAN (EF-1)



TOP VIEW

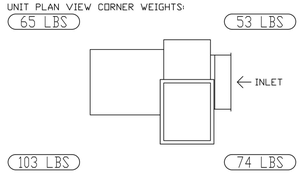


SIDE VIEW (4) ISOLATORS = USBI11, 13 & 15. FRONT VIEW



* INLET/OUTLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

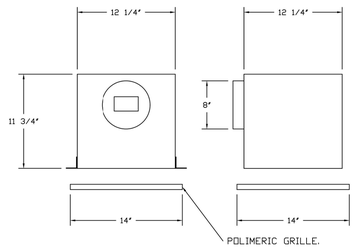
UNIT PLAN VIEW CORNER WEIGHTS:



CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

NORMAL TEMPERATURE TEST DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

FAN #2 CFA 250CA – EXHAUST FAN (EF-2)



FEATURES:
- 1/2" ACOUSTIC HOUSING INSULATION.
- 20 GA. GALVANIZED STEEL HOUSING.
- PLUG TYPE DISCONNECT.
- BUILD IN AUTOMATIC BACKDRAFT DAMPER.
- AMCA SOUND & AIR CERTIFIED.
- UL LISTED.
- CAN BE INSTALLED IN CEILING OR WALL.
- 8 POSITION MOUNTING BRACKETS.

OPTIONS
- STRAIGHT THROUGH DISCHARGE – ASSEMBLY – CFA INLINE.
- FAN CONTROL – 3 AMP FAN MOUNTED SPEED CONTROL FOR CFA CEILING FANS.
- CEILING VIBRATION HANGERS.
- RDI– RADIATION DAMPER.
- 2 YEAR PARTS WARRANTY.

FEATURES:
- ROOF MOUNTED FANS.
- UL703.
- UL762 AND ULC-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DOOR.
- FLANGE 1 1/4".

OPTIONS
- BI15 – INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 16" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET GREASE CUP.
- BI15 – 24" DISCHARGE EXTENSION.
- BI – DISCHARGE ORIENTATION VERTICAL UPPER LEFT – CW INLET SIDE.
- BI15 – INLET CONNECTION STANDARD 16" FLANGED GREASE DUCT.
- UTILITY SET – SPRING VIBRATION ISOLATORS – BI11 THRU BI15 / EQUIVALENT SIZED UTILITY SET – INDOOR/OUTDOOR USE.
- 2 YEAR PARTS WARRANTY.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
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CHIPOTLE #4872 BROOKLYN, NY
1510 Broadway,
Brooklyn, NY, 11221

DATE: 3/26/2024

DWG.#: 6701220

DRAWN BY: ZDH

SCALE: 3/4" = 1'–0"

MASTER DRAWING

SHEET NO. 2

Consultant:

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M-402.00
5 OF 12

DOB NOW Filing #: B01050687-S1

2024-DB#2/P#1-4

HOOD SHOP DRAWING PRODUCED BY MANUFACTURER - FOR REFERENCE ONLY

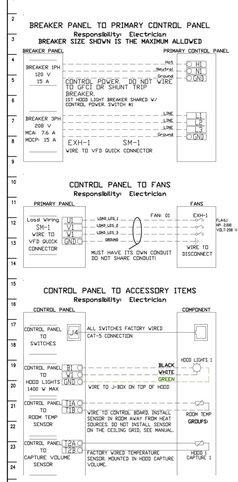
ELECTRICAL PACKAGE – JOB#6701220

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-310110MA	UTILITY CABINET LEFT	UTILITY CABINET LEFT HOOD # 1	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	2.000	208	6.1

JOB NO 6701220 | MODEL NUMBER SC-310110MA | JOB NAME CHIPOTLE #4872 BROOKLYN, NY | DRAWN BY | DATE 3/26/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan, Exhaust on In Fire, Lights out In Fire, Relay On/Off with Supply Fan Contol
Fire Alarm Interface, Remote Firestat, Temperature sensor shipped loose for field Installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD

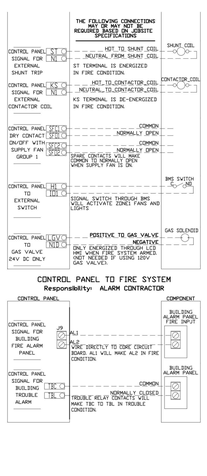
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



CONTROL PANEL TO FANS
Responsibility: Electrician

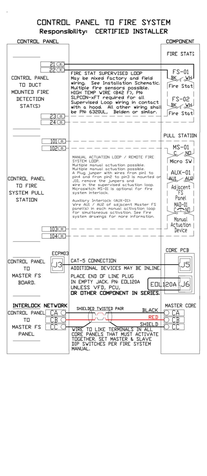
CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician

THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE SPECIFICATIONS



CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



JOB NO 6701220 | MODEL NUMBER SC-310110MA | JOB NAME CHIPOTLE #4872 BROOKLYN, NY | DRAWN BY | DATE 3/26/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 42/46.

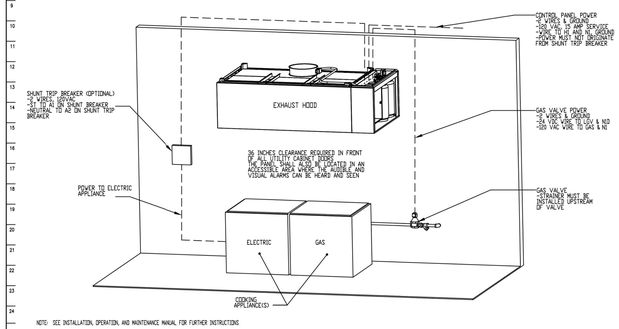
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

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

FS-1: MASTER

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (N1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANGUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANGUL ELECTRIC AUTOMAN, ANGUL SOLENOID TO NEUTRAL



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

JOB NO 6701220 | MODEL NUMBER SC-310110MA | JOB NAME CHIPOTLE #4872 BROOKLYN, NY | DRAWN BY | DATE 3/26/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 42/46.

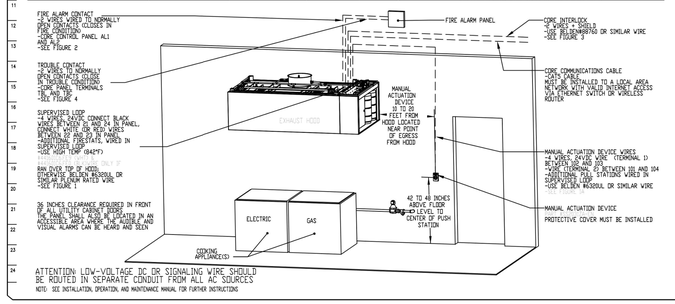
TANK PROTECTION LOW-VOLTAGE DETAIL

10/01/2023 Rev. 3

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. WIRE CORE COMMUNICATIONS SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

FS-1: MASTER

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 103 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 101 AND 104 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 103 AND 104 JUMPER 101 TO 104 AND 103 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF MECHANICAL PROTECTION COVER EXISTS, IT NEEDS TO BE REMOVED
REMOTE FIRESTAT SENSOR(S)	S1 AND S4 S3 AND S3	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS S2 AND S4 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS S3 AND S4 HIGH TEMP SAFETY MANUFACTURING UNITS 1 WATERPROOF TEMPERATURE SENSOR (P/N: SPSHC-P) 3' SUS OR HOOD INTAKE/EXHAUST DUCTWORK MINIMUM OR SIMILAR RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	ALI, ALI	VARIES	30V MAX DC/AC	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (2) CA, TO CORE SYSTEM (2) CA CORE SYSTEM (1) CB, TO CORE SYSTEM (2) CB CORE SYSTEM (2) CC, TO CORE SYSTEM (2) CC. USE BELDEN 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TCK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION: CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



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

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

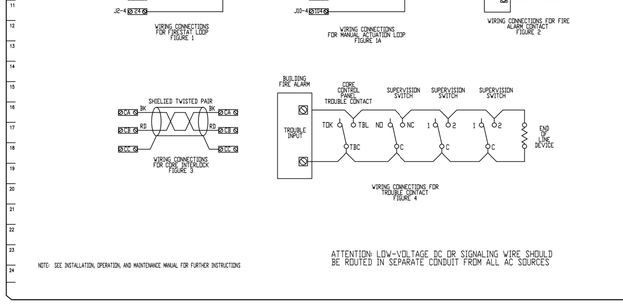
JOB NO 6701220 | MODEL NUMBER SC-310110MA | JOB NAME CHIPOTLE #4872 BROOKLYN, NY | DRAWN BY | DATE 3/26/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-4

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 42/46.

TANK PROTECTION LOW-VOLTAGE FIGURES

10/01/2023 Rev. 17

FS-1: MASTER



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

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DATE: 3/26/2024

DWG.#: 6701220

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

MASTER DRAWING

SHEET NO. 3

Consultant:

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NY License #073765-1

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER: 22151

SHEET TITLE: CAPTIVEAIRE DRAWINGS

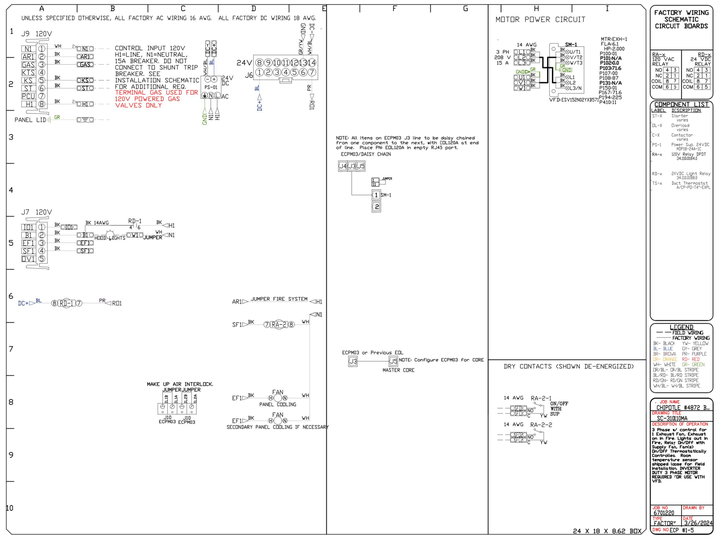
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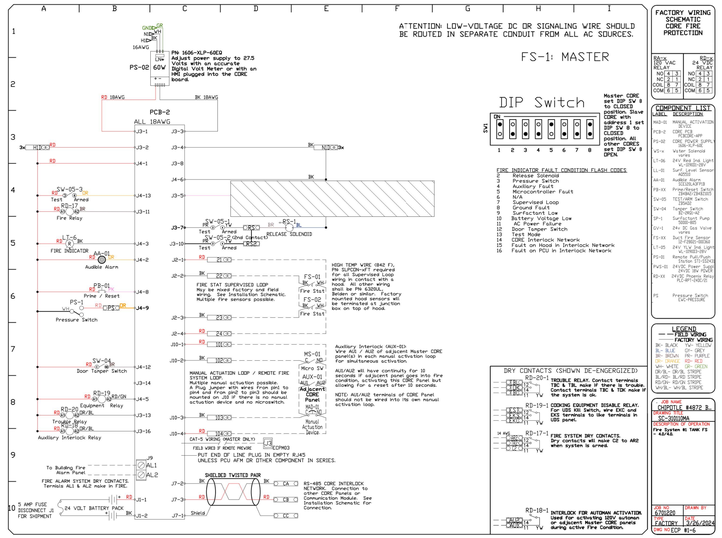
6 OF 12

DOB NOW Filing #: B01050687-S1

2024-DB#2/P#1-4

HOOD SHOP DRAWING PRODUCED BY MANUFACTURER - FOR REFERENCE ONLY





FACTORY WIRING SCHEMATIC CIRCUIT BOARDS

RS-A	RS-B
120 VAC	24 VDC
RELAY	RELAY
NO [4 3] NC	NO [4 3] NC
NC [2 1] NO	NC [2 1] NO
COIL [8 5]	COIL [8 5]
COM [6 7]	COM [6 7]

COMPONENT LIST

LABEL	DESCRIPTION
ST-01	Starter
CR-1	Control relay
CR-2	Control relay
CR-3	Control relay
C-1	Contactor
C-2	Contactor
PS-1	Power Sup. 24 VDC 40W (SV-05-3)
BX-1	120V Relay 2P2T (M38897)
RD-1	24VDC Light Relay (A1020B)
TS-1	Duct Thermostat (L475P-1070-CAN)

LEGEND — FIELD WIRING ····· FACTORY WIRING

BK= BLACK	YW= YELLOW	BL= BLUE	GY= GREY
BR= BROWN	OR= ORANGE	GN= GREEN	RD= RED
WH= WHITE	VI= VIOLET	DBL= DK BLUE	DGN= DK GREEN
BLG= BL/GRN STRIPE		RD/GN= RD/GN STRIPE	
WH/BL= WH/BL STRIPE			

JOB NAME: CHIPOTLE #4872 B.. SC-3001364 SCHEDULE OF REVISIONS: 3 Power w/ control for Fire System Relay, as well as 4 Fire Lights not in the Fire System Relay. Fans, Panel Cooling, On/Off Thermostatically Controlled by temperature sensor shipped loose for field installation. Sensor to be Duct 3 Probe METER REQUIRED FOR USE WITH VFD.

DRAWN BY: AJS FACTORY: 3/26/2024 DWG NO: ECP #1-5

FACTORY WIRING SCHEMATIC CORE FIRE PROTECTION

RS-A	RS-B
120 VAC	24 VDC
RELAY	RELAY
NO [4 3] NC	NO [4 3] NC
NC [2 1] NO	NC [2 1] NO
COIL [8 5]	COIL [8 5]
COM [6 7]	COM [6 7]

COMPONENT LIST

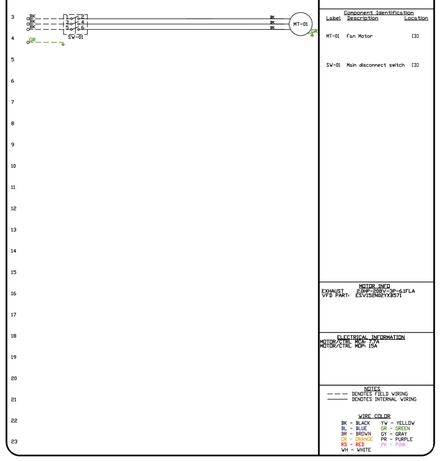
LABEL	DESCRIPTION
MAD-01	Make Up Activation Device
PCB-2	CORE FIRE PROTECTION
PS-02	CORE POWER SUPPLY 60W (SV-05-2)
VAT-1	Vortex Solenoid Valve
LT-06	24V Fire Ind. Light w/ GRND/BY
LL-01	Surf Level Sensor (SV-05-3)
AA-01	Audible Alarm (S2224JST)
PB-XX	Pressure Switch (SV-05-2) (SV-05-3)
SV-05	TEST/ARM Switch
SV-04	Tamper Switch (S1-060-N)
SP-1	Surface Sensor (S2221-SST)
GV-1	24v DC Gas Valve (SV-05-2)
TS-XX	Duct Fire Sensor (S1-F060-1800)
LT-05	24VDC Fire Ind. Light w/ GRND/BY
PS-01	Remote Pull/Push Station (S1-F020)
PCT-01	24VDC Power Supply (SV-05-2) (SV-05-3)
RD-XX	24VDC Phoenix Relay PLC-RPT-24DC/21
PS	Pressure Switch (UC-PRESSURE)

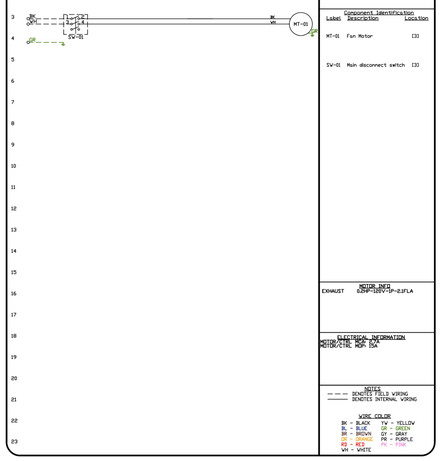
LEGEND — FIELD WIRING ····· FACTORY WIRING

BK= BLACK	YW= YELLOW	BL= BLUE	GY= GREY
BR= BROWN	OR= ORANGE	GN= GREEN	RD= RED
WH= WHITE	VI= VIOLET	DBL= DK BLUE	DGN= DK GREEN
BLG= BL/GRN STRIPE		RD/GN= RD/GN STRIPE	
WH/BL= WH/BL STRIPE			

JOB NAME: CHIPOTLE #4872 B.. SC-3001364 SCHEDULE OF REVISIONS: 1 TO TAKE F3 = 46/48.

DRAWN BY: AJS FACTORY: 3/26/2024 DWG NO: ECP #1-6





2024-DB#2/P#1-4

REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVEAIRE
Highwoods Group
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 9198750577 EMAIL: regd0@captiveaire.com
www.captiveaire.com

CHIPOTLE #4872 BROOKLYN, NY
1510 Broadway,
Brooklyn, NY, 11221

DATE: 3/26/2024

DWG.#: 6701220

DRAWN BY: ZDH

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

MASTER DRAWING

SHEET NO. 4

Consultant:

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REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER: 22151

SHEET TITLE: CAPTIVEAIRE DRAWINGS

SHEET NUMBER: M-404.00

7 OF 12

DOB NOW Filing #: B01050687-S1

EXHAUST FAN SCHEDULE

Tag	Manufacturer	Model	Type	Drive	CFM	E.S.P.	Motor					Sone	Weight	Furnished	Installed	Comments
						IN. W.C.	H.P.	Volts	PH.	Hz.	RPM	Level	lbs.	By	By	
EF-1	Captive-Aire	USBI15DD	Utility	Direct	1900	2.0	2	208	3	60	1695	20.0	294	HS	GC	See Captive-Aire drawings for options & accessories.
EF-2	Captive-Aire	CFA 250CA	Inline	Direct	200	0.5	.222	115	1	60	752	-	30	HS	GC	See Captive-Aire drawings for options & accessories.

Notes that apply to all fans:

1. Static pressure indicated above is the external static pressure which excludes any pressure drops within the fan.
2. Perform testing and balancing and submit reports to the engineer in accordance with specification.
3. Refer to framing plan for exact location of fans.
4. Mechanical subcontractor shall affix unit designation decal on unit (see General Notes for further information).

Accessories, Features & Options:

1. Grease box.
2. Fan base ceramic seal for grease ducts.
3. Roof curb.
4. Disconnect.
5. Bird screen.

AIR BALANCE CALCULATIONS

System	Supply Air CFM	Return Air CFM	Outdoor Air CFM	Exhaust Air CFM	Pressure CFM
AHU-1	4000	2900	1100		1100
AHU-2	4000	2900	1100		1100
EF-1				1900	-1900
EF-2				200	-200
Total	8000	5800	2200	2100	100

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.

B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.

C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

OUTDOOR AIR COOLED CONDENSING UNIT SCHEDULE

Unit ID	Nominal Cooling Capacity (Tons)	Manuf.	Model	Description	Refrig. Type	Refrig. Charge	Unit Electrical Data					Unit Installed Weight lbs.	Furnished By	Installed By	Comments
							Voltage	Phase	Hz.	FLA	MOCP				
CU-1	-	Manitowoc (Harford)	PCL99MOP-3	Walk-in Cooler Remote CU	R-404A	-	208	3	60	6.5	15	200	WCS	GC	Furnished with walk-in cooler
CU-2	-	-	-	Ice Maker Remote CU	R-404A	11 lbs. 7.4 oz.	120	1	60	-	-	100	KES	GC	Furnished with ice maker
CU-3	-	-	-	PUW Ice Maker Remote CU	R-404A	11 lbs. 7.4 oz.	120	1	60	-	-	100	KES	GC	Furnished with ice maker

AIR DOOR SCHEDULE

ID	Manufacturer	Model	Airflow			Electrical				Furnished By	Installed By	Remarks
			Max FPM	Avg FPM	CFM	KW	V/P/H	MCA	MOCP			
AD-1	Berner	AI081072E	2149	1582	1780	11.2	208/3/60	32.8	45.0	GC	GC	

VENTILATION SCHEDULE

Space Served		Calculation of Minimum Outside Air (OA) Per NYC MC 2022												OA CFM	Ventilation		Comments
Name	Area (SQ.FT.)	Classification	Based on Occupancy					Based on CFM / SQ.FT.		Based on Exhaust				Required	Provided	System	
			Persons Per 1000 SQ.FT.	Estimated Max. Occupant Load	Design Occupant Load	CFM Per Person	Total OA CFM	CFM Per SQ.FT.	Total OA CFM	Fixture Quantity	CFM Per Fixture	CFM Per SQ.FT.	Total Exhaust CFM				
101-Dining	683	Food and beverage service: Cafeteria, fast food	100	68	30	7.5	225	0.18	123					348	942	AHU-2	See Note 1
102-Ordering	53	Food and beverage service: Cafeteria, fast food	100	5	5	7.5	39.75	0.18	10					49	133	AHU-2	See Note 1
103-Utensil	48	Public spaces, Corridors and utilities						0.06	3					3	8	AHU-2	
104-Passage	102	Public spaces, Corridors and utilities						0.06	6					6	17	AHU-2	
105-Unisex 1	49	Public spaces: Toilet rooms - public							0	1	70		70	0	0	EF-2	
106-Unisex 2	49	Public spaces: Toilet rooms - public							0	1	70		70	0	0	EF-2	
Totals:	984				35									406	1100	AHU-2	
107-Serving	103	Food and beverage service: Cafeteria, fast food	100	10	4	7.5	30	0.18	19					49	228	AHU-1	See Note 1
108-DML	109	Food and beverage service: Cafeteria, fast food	100	11	2	7.5	15	0.18	20					35	162	AHU-1	See Note 1
109-Cooking	356	Food and beverage service: Kitchens (cooking)	20	7	2	7.5	15	0.12	43			0.7	249	58	271	EF-1	
110-Kitchen	256	Food and beverage service: Cafeteria, fast food	100	26	4	7.5	30	0.18	46					76	357	AHU-1	See Note 1
111-Office	38	Offices: Office spaces	5	0	1	5	5	0.06	2					7	34	AHU-1	
BOH Area	136	Public spaces, Corridors and utilities						0.06	8					8	38	AHU-1	
Utility	34	Public spaces, Corridors and utilities						0.06	2					2	10	AHU-1	Via EF-2
Totals:	1032				13									234	1100	AHU-1	

Notes:

1. Classification of "Food and beverage service, Cafeteria, fast food" results in an estimated quantity of people on a square footage basis that is unrealistic with regard to the actual use of the space. The calculated number of people has been noted in the above calculation, but an alternative, reasonably conservative actual maximum occupancy (which is supported by the Owner's historical data) is utilized in the calculation for the Total Outside Air CFM required for the respective Zones. The code-mandated value of 7.5 cfm/person for "Food and beverage service, Cafeteria, fast food" is used in the calculation.

SPLIT SYSTEM AIR HANDLER & CONDENSER UNIT SCHEDULE (AHU & ACC)

Tag	Manuf.	AHU model #	Orientation	ACC model #	Tonnage	Supply Fan				DX Cooling					Heating Performance	Electric-AHU			Electric-ACC			AHU Installed weight LBS	ACC Installed weight LBS	Accessories & Options												
						Design airflow CFM	Outdoor airflow CFM	ESP in H2O	Fan HP	Cooling LDB F	Total capacity MBH	Sensible capacity MBH	EER	IEER		V/Ph/Hz	MCA	MOCP	V/Ph/Hz	MCA	MOCP			1	2	3	4	5	6	7	8	9	10	11	12	13
AHU / ACC-1	Carrier	40RFAA12A2A5-UA1A0	Horizontal	38AUZN12A0P5-0A1C0	10	4000	1100	0.8	2.4	58.6	117.2	87.6	11.2	15.5	See Electric Duct Heater Schedule for Heating Performance Data	208/3/60	8	15	208/3/60	45	60	610	490	X	X		X	X	X	X	X	X	X	X	X	X
AHU / ACC-2	Carrier	40RFAA12A2A5-UA1A0	Horizontal	38AUZN12A0P5-0A1C0	10	4000	1100	0.8	2.4	58.6	117.2	87.6	11.2	15.5		208/3/60	8	15	208/3/60	45	60	610	490	X	X		X	X	X	X	X	X	X	X	X	X

Notes that apply to all units:

1. Maximum air velocity through cooling coil shall not exceed 500 feet per min.
2. Contractor to ensure that outdoor air intakes are a minimum of 10'-0" away from any exhaust fan discharge, plumbing vent or other contaminant source.
3. Mechanical subcontractor shall affix unit designation decal on unit.
4. Perform testing and balancing and submit reports to the engineer in accordance with specification.
5. Indoor and outdoor units shall be by the same manufacturer.
6. Refrigerant piping to be sized and installed per manufacturer's specifications.

Accessories & Options:

1. MERV 8 Filters
2. Hail guards (ACC)
3. Mixing box (AHU)
4. Condensate drain pan (AHU)
5. Manufacturer's electrical disconnect (ACC) & field provided electrical disconnect (AHU)
6. Provide Little Giant VCC-20 Series or equal (if AHU cannot drain via gravity)
7. Factory provided non-powered service outlet GFCI type (ACC) & field provided non-powered service outlet GFCI type (AHU)
8. Field provided R.A. & S.A. smoke detectors with paired remote annunciator / rest (paired with each duct smoke detector)
9. Factory installed economizer (IAQ ready) with differential enthalpy control and hood.
10. Low ambient controls
11. Factory coastal coating
12. Overhead suspension accessory
13. MED-static fan

ELECTRIC DUCT HEATER SCHEDULE

Unit ID	Manuf.	Model	Matched Indoor Unit	Discharge Temp. °F D.B.	Duct Dimensions (Inches) Width X Height	Unit Electrical Data				Control Circuit Voltage	Accessories, Features & Options				Comments
						KW	Voltage	Phase	Hz.		1	2	3	4	
EDH-1	Indeeco	QUZ	AC-1	96.3	24 x 20	48	208	3	60	24	X	X	X	X	
EDH-2	Indeeco	QUZ	AC-2	96.3	24 x 20	48	208	3	60	24	X	X	X	X	

Accessories, Features & Options:

1. Provide manuf. disconnect.
2. Duct thermostat to maintain discharge temp.
3. Provide airflow proving switch.
4. Automatic reset thermal cutout.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

Tag	Description	Face Size / Neck Size	Material	Finish	Mounting	Furnished By	Installed By	Manufacturer	Model	Notes
CD-1	Perforated ceiling diffuser	Face: 24"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBD
CD-2	Perforated ceiling diffuser	Face: 24"x12" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBP Remove 4-way deflectors
CD-3	Perforated ceiling diffuser	Face: 20"x20" Neck: Varies	Aluminum	White	Duct / Exposed	GC	GC	Nailor	4320A Type L	Provide with integral OBP
ER-1	Perforated ceiling exhaust	Face: 12"x12" Neck: Varies	Aluminum	White	Surface mount	GC	GC	Nailor	4330R Type S	Provide with integral OBD
RG-1	Perforated ceiling return	Face: 48"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4330R Type L	

2024-DB#2/P#1-4

Consultant:

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REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
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1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

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PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M-600.00
8 OF 12

DOB NOW Filing #: B01050687-S1

NYCECC 2020 - TABLE C403.2.10: MINIMUM PIPE INSULATION THICKNESS

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (in.)				
	CONDUCTIVITY Btu-in / (hr-ft2-°F)	MEAN RATING TEMPERATURE (°F)	< 1.0	1.0 < 1.5	1.5 < 4.0	4.0 to < 8.0	8.0 and up
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 5/M-700 FOR INSTALLATION INFORMATION
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION

DUCT INSULATION

PER SECTION C403.11.1 OF THE 2020 NYC ENERGY CONSERVATION CODE, ALL SUPPLY & RETURN DUCTS & PLENUMS SHALL BE INSULATED IN THE FOLLOWING MANNER:

- LOCATED IN UNCONDITIONED SPACES: MINIMUM OF R-6 INSULATION
- LOCATED OUTSIDE THE BUILDING: MINIMUM OF R-8 INSULATION (CLIMATE ZONES 1-4) AND R-12 INSULATION (CLIMATE ZONES 5-8)
- LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY: SEPARATED FROM THE BUILDING EXTERIOR, UNCONDITIONED, OR EXEMPT SPACE BY A MINIMUM OF R-8 INSULATION (CLIMATE ZONES 1-4) AND R-12 INSULATION (CLIMATE ZONES 5-8)

DUCTWORK INSULATION SPEC

6. DUCTWORK INSULATION

a. ALL NEW AND EXISTING CONCEALED SHEET METAL SUPPLY DUCTWORK (AND RETURN DUCTWORK IN UNCONDITIONED SPACES) SHALL BE INSULATED WITH 2" THICK FLEXIBLE DUCT INSULATION, WITH A MINIMUM R VALUE OF 6, WITH REINFORCED FOIL FACED, FLAME RESISTANT, ALUMINUM FOIL VAPOR BARRIER SIMILAR TO KNAUF FRIENDLY FEEL DUCT WRAP WITH ECOSE. THE DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS. THE SHEET METAL SIZE SHALL BE INCREASED TO ACCOMMODATE THE LINER INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. ALL INSULATION SHALL BE SECURED WITH DUCT ADHESIVE AND SEEMS SEALED BY TWO-INCH SEALING LIP WITH ADHESIVE AND FASTENED WITH 16 GAUGE RUST RESISTANT WIRE OR FIBERGLASS CORD ON 12" CENTERS. ON DUCTS OVER 24" WIDE, WELDED PINS AND CLIPS SHALL BE USED ON THE UNDERSIDE FOR FASTENING INSULATION.

b. FRESH AIR INTAKE, MIXED AIR DUCTWORK AND LOUVER BLANK-OFF PANELS SHALL BE INSULATED WITH RIGID DUCT INSULATION 2" THICK WITH A MINIMUM R VALUE OF 8, WITH WHITE VINYL FOIL BARRIER FACING SIMILAR TO KNAUF ECLIPSE DUCTBOARD WITH ECOSE. INSULATION AND FACING WILL HAVE A COMBINED FLAME SPREAD RATING NO GREATER THAN 25 AND SMOKE DEVELOPED RATING NOT EXCEEDING 50. INSULATION SHALL BE IMPALED OVER WELDED PINS WITH CLIPS FIRMLY EMBEDDED INTO INSULATION. ALL JOINTS AND CLIPS SHALL BE SEALED WITH MATCHING STRIPS OF VINYL COATED VAPOR BARRIER LAMINATE SIMILAR TO OWENS CORNING 24 ASJ FOR DUCTS.

c. ALL SEALING TAPE SHALL CONFORM TO UL181A OR UL181B WHEN USED AS PRIMARY SEALANT.

ENERGY ANALYSIS (DUCTWORK INSULATION) CLIMATE ZONE 4A

ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIBED VALUE
ALL SUPPLY & RETURN DUCTWORK INSIDE BUILDING	R-VALUE > 6	R-VALUE > 6
FRESH AIR INTAKE DUCTWORK	R-VALUE > 8	R-VALUE > 8

NOTES: ALL SEALING TAPE SHALL CONFORM TO UL-181A OR UL-181B WHEN USED AS A PRIMARY SEALANT.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE.

REQUIRED INSPECTIONS

SPECIAL INSPECTIONS SHALL BE MADE BY A "SPECIAL INSPECTOR", AN ENGINEER, OR ARCHITECT LICENSED IN NEW YORK STATE WORKING FOR AN APPROVED SPECIAL INSPECTION AGENCY. THE SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS REQUIREMENTS AS DEFINED BY THE NYC BUILDING CODE AND ALL RELEVANT MEMORANDA AND DIRECTIVES THAT APPLY TO THIS WORK. ALL INSPECTIONS SHALL BE MADE IN ACCORDANCE WITH CHAPTER 17 OF THE 2022 NYC BUILDING CODE AND THE DEPARTMENT'S SPECIAL INSPECTIONS RULE.

THE SELECTED CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR AND PERFORMING THE REQUIRED NEW YORK CITY DEPARTMENT OF BUILDINGS SPECIAL INSPECTIONS WITH THE SELECTED EXPEDITOR OF RECORD.

SPECIAL INSPECTIONS ARE REQUIRED FOR:
a) MECHANICAL SYSTEMS (BC 1704.16)
b) FINAL INSPECTION UNDER DIRECTIVE 14
c) ENERGY CODE INSPECTIONS (NYC AND 1RCNY5000)
d) HVAC-R AND SERVICE HEATING EQUIPMENT
e) HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS
f) HVAC-R AND SERVICE WATER PIPING DESIGN & INSULATION

BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE NOVEMBER 7, 2022 AND ALL AMENDMENTS TO DATE, MATERIALS AND EQUIPMENT SUBJECT TO CONTROLLED INSPECTION.

2. MECHANICAL VENTILATION AIR CONDITIONING AND REFRIGERATION. INSPECTION AND TESTS OF THE REQUIRED VENTILATION SYSTEMS AND NOISE CONTROL AS CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE AND CHAPTER 1 OF THE NEW YORK CITY MECHANICAL CODE.

3. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC., SHALL COMPLY WITH THE FOLLOWING CODE REFERENCE.
   3.1. DUCT CONSTRUCTION AND SUPPLY INTAKES, EXHAUST AND RELIEF FILTERS AS PER CHAPTER 6 OF THE 2022 NEW YORK CITY MECHANICAL CODE.
   3.2. NOISE CRITERIA LEVELS AND TEST PROCEDURE FOR SOUND POWER LEVELS AS PER CHAPTER 9, SECTION 928 OF THE 2022 NEW YORK CITY MECHANICAL CODE.
   3.3. ELECTRIC WIRING EQUIPMENT, FIRE CONTROL AND CONTROLS MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON AS PER NEC.
   3.4. 70 DEGREE F WHEN 5 DEGREE OUTSIDE (WITH 15 MPH WIND) AS PER ASHRAE.

4. REFER TO ARCHITECTURAL DRAWING FOR FIRE RATED WALL LOCATIONS AND RATED CONSTRUCTION.

5. THE VENTILATION REQUIREMENTS FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS OF CHAPTER 4 (VENTILATION) OF THE NEW YORK CITY MECHANICAL CODE. THE VENTILATION REQUIREMENTS ARE MADE WITHOUT TAKING ANY CREDIT FOR EXTERIOR WINDOWS AND/OR OPENING IN AIR CONDITIONED AREAS.

6. UPON COMPLETION OF THIS VENTILATION SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR HAVING NOT LESS THAN FIVE (5) YEARS OF EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS. THE TEST SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED. THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. HE SHALL ALSO FILE WITH THE CERTIFICATION, A REPORT OF THE TEST, THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE STRUCTURE AS PROVIDED IN THE APPLICABLE SECTIONS OF THE CODE. BASE BUILDING PLANS ARE FILED FOR SINGLE TENANT OCCUPANCY. ALL TENANT PLANS WILL BE FILED UNDER SEPARATE APPLICATIONS.

7. DETAIL OF DUCT SUPPORTS SHALL BE IN ACCORDANCE WITH THE 2022 NEW YORK CITY MECHANICAL CODE. UNLESS OTHERWISE NOTED, ALL DUCTS SHALL BE CONSTRUCTED OF GALVANIZED IRON. SEE DETAIL FOR METHOD USED FOR HANGING DUCT.

8. ALL VENTILATING AND HANGING DUCTWORK, BOTH HIGH AND LOW VELOCITY, TO BE CONSTRUCTED IN ACCORDANCE WITH THE DUCT MANUALS OF SMACNA, LATEST EDITION.

9. ALL FIRE DAMPERS SHALL BE APPROVED BY THE NEW YORK CITY BOARD OF STANDARDS AND APPEALS AND SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFU PAMPHLETS 90A AND 90B). FIRE DAMPERS SHALL BE AIR BALANCE AND TESTING CO., B.S.A. CATALOG NO. 100-6-SM OR IF DIFFERENT MANUFACTURED, NUMBER SHALL BE FILED AT THE COMPLETION OF THE INSTALLATION.

10. THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

11. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE.

Consultant:

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REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
HVAC SCHEDULES

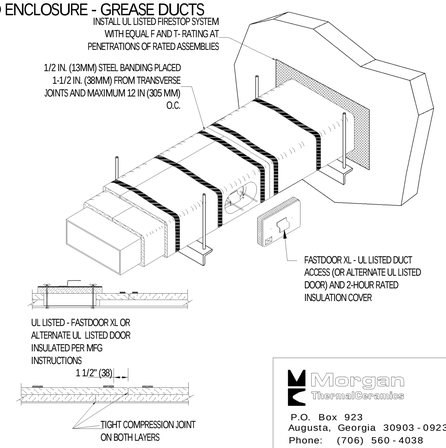
SHEET NUMBER:
M-601.00
9 OF 12

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2024-DB#2/P#1-4

FIRE RATED ENCLOSURE - GREASE DUCTS

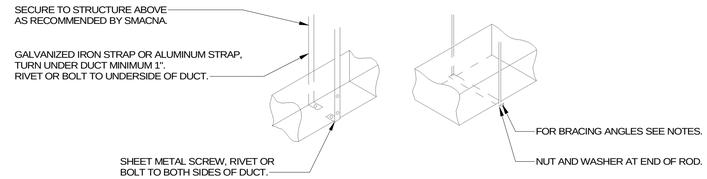
1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2- HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   - NFPA 96
   - INTERNATIONAL MECHANICAL CODES
   - UNIFORM MECHANICAL CODE
   - CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 12 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



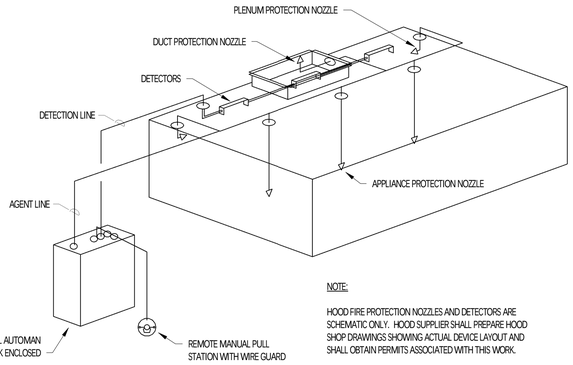
Morgan Thermal Ceramics
P.O. Box 923
Augusta, Georgia 30903 - 0923
Phone: (706) 560 - 4038

1 FIREMASTER DUCT WRAP - UL HNKT-G18
NOT TO SCALE

RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)								
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2<30'	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	10 GA. (0.135")	1"X22 GA.	12 GA. (0.106")	1"X22 GA.	12 GA. (0.106")
P/2<72"	1"X18 GA.	3/8"	1"X20 GA.	1/4"	1"X22 GA.	1/4"	1"X22 GA.	1/4"
P/2<96"	1"X16 GA.	3/8"	1"X18 GA.	3/8"	1"X20 GA.	3/8"	1"X22 GA.	1/4"
P/2<120"	1-1/2"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X18 GA.	3/8"	1"X20 GA.	1/4"
P/2<168"	1-1/2"X16 GA.	1/2"	1"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X18 GA.	3/8"
P/2<192"	-	1/2"	1-1/2"X16 GA.	1/2"	1"X16 GA.	3/8"	1"X16 GA.	3/8"



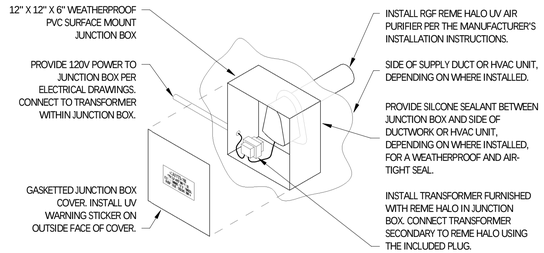
3 HVAC - DUCT HANGER DETAILS
NOT TO SCALE



NOTE:

HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

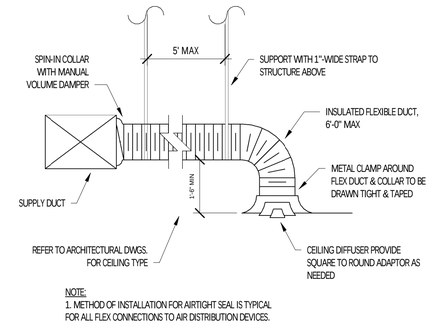
4 HVAC - FIRE SUPPRESSION SYSTEM SCHEMATIC
NOT TO SCALE



INSTALLATION LOCATION

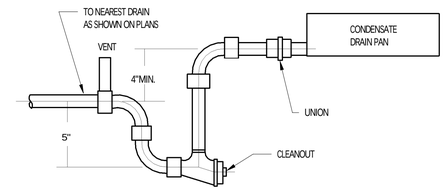
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF SUPPLY DUCTWORK, OR AIR HANDLING UNIT, AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE DUCTWORK OR HVAC UNIT. VERIFY PREFERRED INSTALLATION METHOD WITH HVAC UNIT MANUFACTURER AND REME HALO MANUFACTURER. LOCATE REME HALO, MAKING SURE DEVICE IS ACCESSIBLE AND INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF INSTALLING IN HVAC UNIT, FIELD VERIFY EXACT INSTALLATION LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY HVAC UNIT INTERIOR COMPONENTS. OBTAIN INSTALLATION INSTRUCTIONS FROM CHIPOTLE CM.

5 UV AIR PURIFIER INSTALLATION
NOT TO SCALE

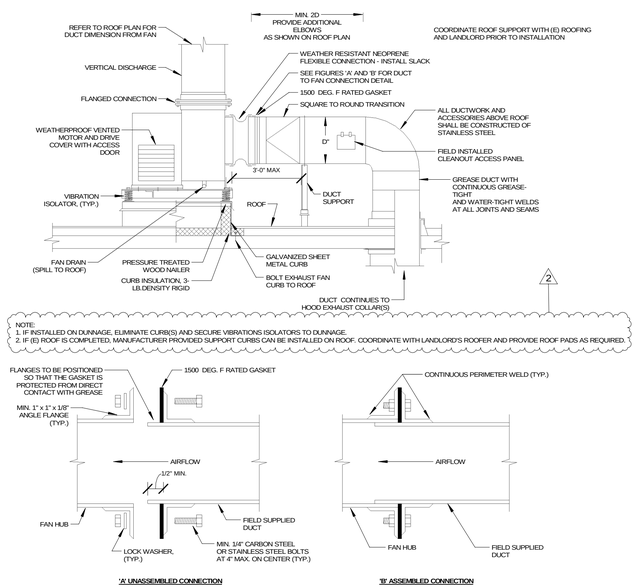


NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

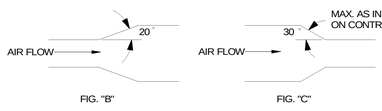
6 HVAC - DIFFUSER CONNECTION
NOT TO SCALE

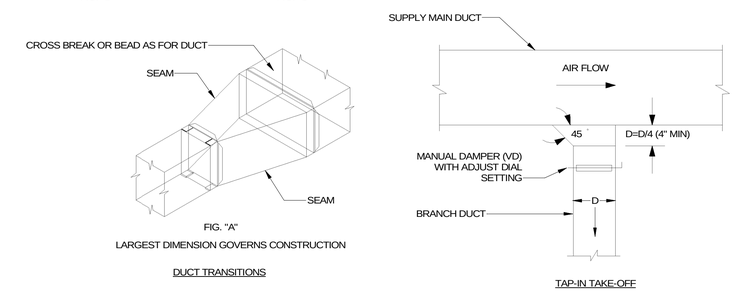


7 HVAC - CONDENSATE COOLING COIL DRAIN PAN
NOT TO SCALE



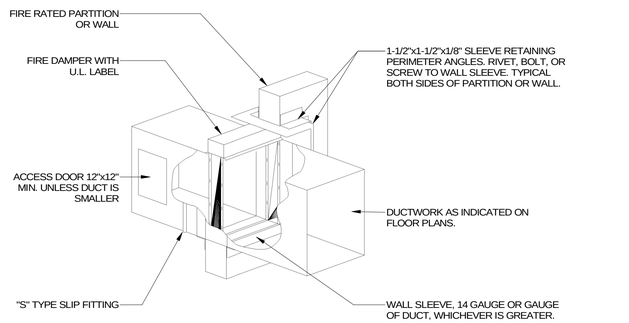
8 HVAC - UTILITY SET GREASE EXHAUST FAN DETAIL
NOT TO SCALE





NOTE:
1. DUCT TRANSITIONS TYPICAL AFTER EACH TAKE-OFF(S) WHERE CHANGE IN DUCT SIZE IS INDICATED.

9 HVAC - DUCT TRANSITION DETAILS
NOT TO SCALE



NOTES:
1. FIRE DAMPER INSTALLATION FOR VERTICAL AIRFLOW SHALL BE SIMILAR WITH S.S. NEGATOR SPRINGS FOR CLOSURE.

10 HVAC - FIRE DAMPER DETAIL
NOT TO SCALE

2024-DB#2/P#1-4

Consultant:

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REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	08.16.2024	LL COMMENTS
2	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

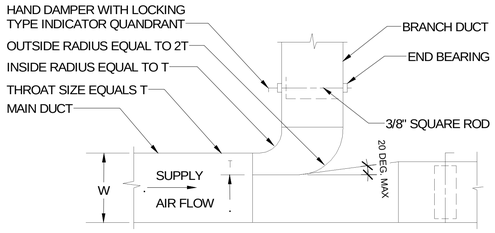
PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
HVAC DETAILS

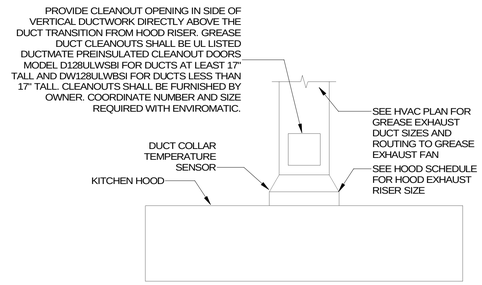
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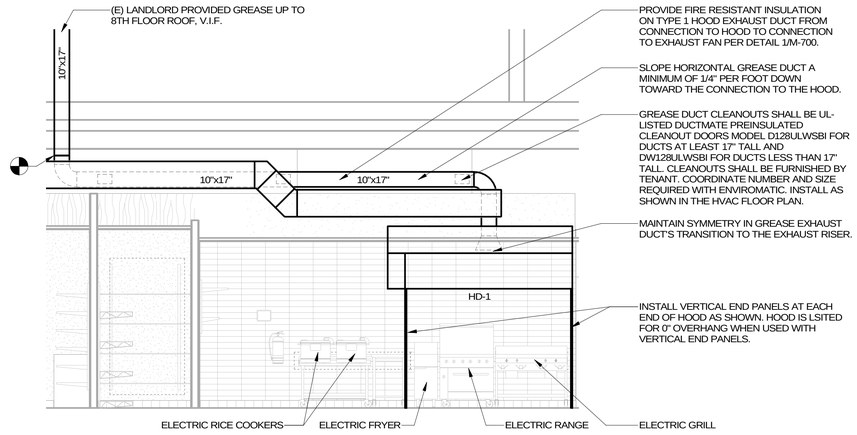


NOTES:
1. FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH MORE THAN 200 CFM.
2. MUST BE USED WHEN W IS GREATER THAN, OR EQUAL TO 36".
3. MINIMUM T = 4".

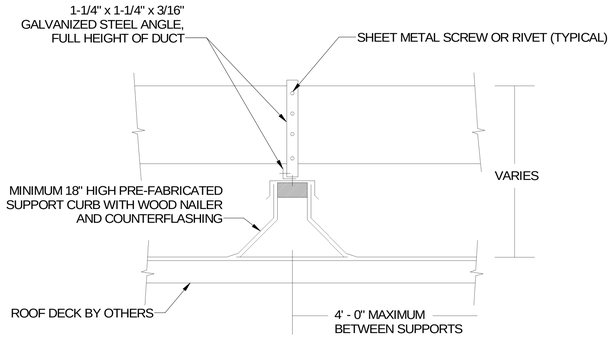
1 HVAC - RECTANGULAR DUCT BRANCH
NOT TO SCALE



2 HVAC - GREASE EXHAUST DUCT AT HOOD
NOT TO SCALE

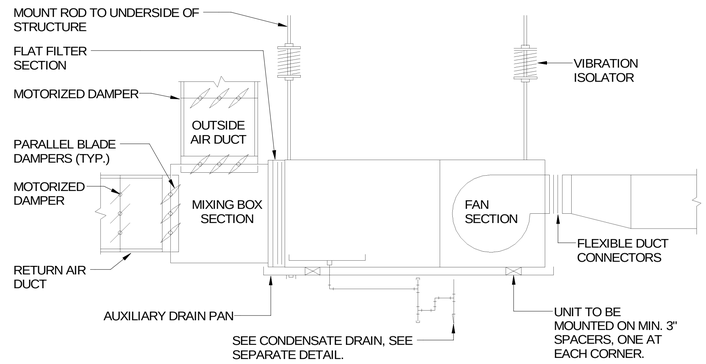


3 HVAC - HOOD DUCTWORK SECTION
1/4" = 1'-0"



NOTES:
HVAC CONTRACTOR SHALL BE RESPONSIBLETO REMOVE EXISTING ROOFING WHERE NEW EQUIPMENT AND DUCT CURBS ARE TO BE SET AND WHERE NEW DUCT PENETRATIONS THROUGH THE ROOF OCCUR. HVAC CONTRACTOR SHALL BE RESPONSIBLE TO CUT NEW ROOF OPENINGS FOR NEW DUCTWORK, PIPING, ETC. AFTER SETTTING OF THE DUCT AND EQUIPMENT CURBS, PROVIDE NEW ROOF FLASHING AND COUNTER FLASHING. IF THE ROOF HAS BEEN INSTALLED WITHIN THE PAST 5 YEARS THE HVAC CONTRACTOR SHALL HIRE THE SERVICES OF THAT ROOFING CONTRACTOR TO INSTALL ALL CURBS AND DUCT PENETRATIONS SO NOT VOID ROOF GUARANTIES. COORDINATE THE ABOVE WITH THE OWNER AND THE ARCHITECT.

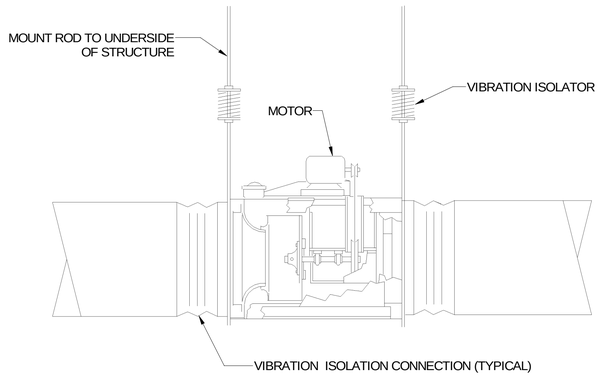
4 HVAC - ROOFTOP DUCT SUPPORT CURB DETAIL
NOT TO SCALE



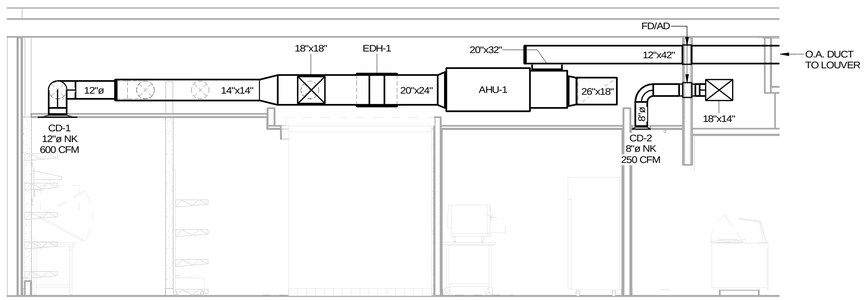
NOTE: ORIENTATION SHOWN IS FOR AHU-1. SEE 8/M-701 FOR AHU-2 CONNECTIONS.

NOTE: FOR REFRIGERANT PIPING CONNECTIONS, SEE MANUFACTURER'S LITERATURE.

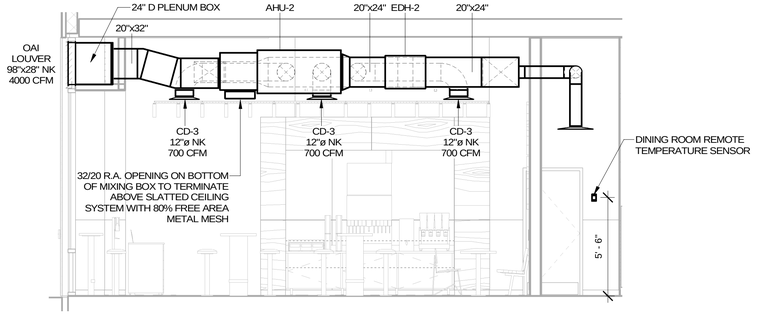
5 HVAC - AHU ABOVE CEILING
1/8" = 1'-0"



6 HVAC - INLINE EXHAUST FAN
NOT TO SCALE



7 HVAC - AHU-1 SECTION
1/4" = 1'-0"



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

2024-DB#2/P#1-4

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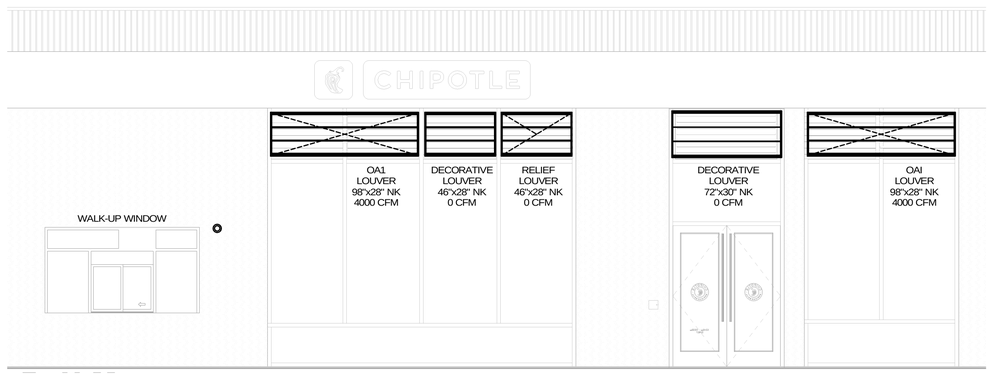
PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

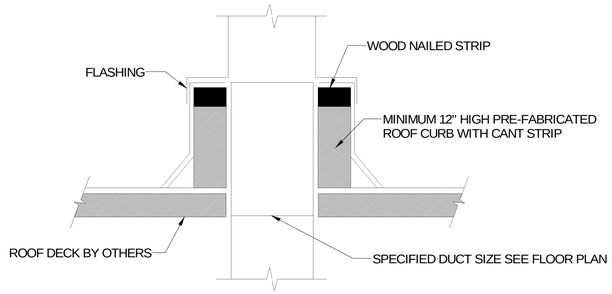
SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:
M-701.00
11 OF 12

DOB NOW Filing #: B01050687-S1



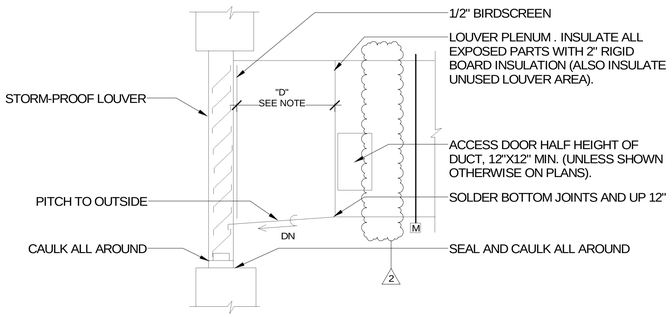
1 HVAC - FRONT FACADE ELEVATION
1/4" = 1'-0"



NOTES:

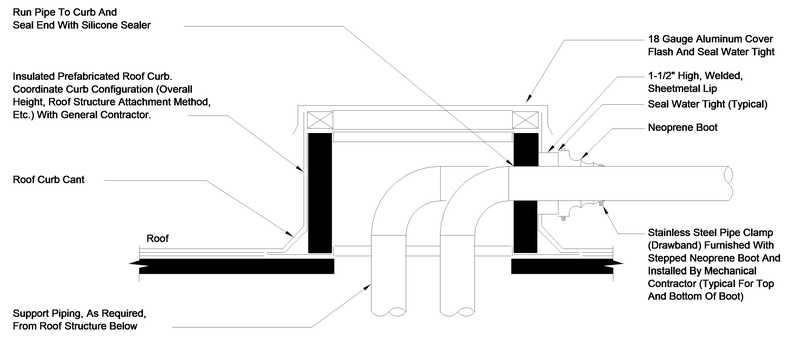
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2 HVAC - DUCTWORK ROOF PENETRATION DETAIL
1/8" = 1'-0"



NOTE: WHEN "D" IS OVER 24" PROVIDE 3/4" DRAIN AT 5'-0" CENTERS 6" FROM LOUVER WITH TRAP.

3 HVAC - MOTORIZED WALL LOUVER
NOT TO SCALE



CURB SECTION VIEW

NOTES:

1. Contractor Shall Coordinate All Roof Penetrations With Existing Conditions.
2. HVAC Contractor Shall Be Responsible To Remove Existing Roofing Where New Pipe Curbs Are To Be Set And Where Penetrations Through The Roof Occur. HVAC Contractor Shall Be Responsible To Cut New Roof Openings For New Piping. After Setting Of The Pipe Curbs, Provide New Roof Flashing And Counter Flashing. If The Roof Has Been Installed Within The Past 5 Years The HVAC Contractor Shall Hire The Services Of That Roofing Contractor To Install All Pipe Curbs So Not To Void Roof Guaranties. Coordinate The Above With The Owner And The Architect. The Final Height Of Piping Above The Finished Floor Shall Be Determined By The Architect. The Piping Shall Be Installed To Provide Adequate Clearance Below Piping For Future Re-Roofing Operations.

4 HVAC - PIPE THRU ROOF CURB DETAIL
1/8" = 1'-0"

2024-DB#2/P#1-4

Consultant:
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"BEDFORD STUYVESANT"
1510 BROADWAY
BROOKLYN, NY 11221

REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	08.16.2024	LL COMMENTS
2	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:
M-702.00
12 OF 12

DOB NOW Filing #: B01050687-S1

PLUMBING SPECIFICATIONS

NYC BUILDING CODE NOTES:

1. ALL PLUMBING SYSTEMS (SANITARY, WASTE, VENT AND WATER DISTRIBUTION PIPING SYSTEMS) AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 N.Y. CITY PLUMBING CODE (NYCPC).

2. INSTALLATION OF UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 702.2.

3. PROTECTION OF PIPING PASSING UNDER OR THROUGH FOUNDATION WALLS AS PER SECTION PC 305.

4. TRENCHING, EXCAVATION AND BACKFILL AS PER SECTION PC 306.

5. RAT PROOFING AS PER PC 304.

6. MATERIALS USED IN PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 303, PC 605, PC 702, PC 902,PC 1102.

7. EQUIPMENT CONNECTIONS AND JOINING OF PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTERS 4, 5, 6, 7 AND 9.

8. DEEP SEAL TRAPS FOR FLOOR DRAINS SHALL BE PROVIDED AS PER PC 1002, & CLEAN-OUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 708.

9. BUILDING HOUSE TRAPS SHALL BE PROVIDED AS PER SECTION PC 1002.

10. DRAINAGE PIPE CLEANOUTS AS PER SECTION PC 708.

11. VERTICAL AND HORIZONTAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC 308.

12. WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 SECTION PC 601-603, 604, 606, 607, 608, 610.

13. THE SANITARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 7 SECTION PC 701, 704, 705, 706, 707, 708. 711.

14. VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 9 SECTIONS PS 901 THROUGH PC 912 THROUGH PC 917.

15. THE STORM DRAINAGE PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 11 SECTION PC 1101 THROUGH 1113.

16. INSPECTION AND TESTING OF PLUMBING PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION PC 107, 312.

17. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER SECTION PC311.

NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH NEW YORK CITY CODE SECTION RS15 AND DIRECTIVE LOCAL LAW 58/87.

2. ALL PLUMBING WORK SHALL COMPLY WITH THE WATER CONSERVATION LOCAL LAW 29/89.

3. PRIOR TO DISCONNECTING AND CONNECTING NEW WORK TO EXISTING SYSTEMS, THE PLUMBING CONTRACTOR SHALL NOTIFY THE PROPERTY MANAGER, AND OFFER A SCHEDULE OF WORK. SHUT DOWNS AND DRAIN DOWNS MAY BE PERFORMED BY THE PLUMBING CONTRACTOR ONLY AFTER RECEIVING AUTHORIZATION.

4. CONNECTION TO EXISTING SYSTEMS MAY HAVE TO BE MADE AFTER REGULAR WORKING HOURS.

5. ALL WORK SHALL CONFORM TO THE BUILDING STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET WITH BUILDING CONSTRUCTION MANAGER IN ORDER TO BECOME TOTALLY FAMILIAR WITH BUILDING CONSTRUCTION RULES. THERE SHALL BE NO DEVIATION FROM THE BUILDING STANDARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONSTRUCTION MANAGER.

PIPING INSULATION SCHEDULE

DOMESTIC COLD WATER INSULATION SCHEDULE		DOMESTIC HOT WATER INSULATION SCHEDULE			
PIPE SIZE	MIN. THICKNESS	PIPE SIZE	MIN. THICKNESS	PIPE SIZE	MIN. THICKNESS
LESS THAN 1-1/2"	1/2"	LESS THAN 1-1/2"	1"	ALL SIZES	1"
1-1/2" AND LARGER	1"	1-1/2" AND LARGER	1-1/2"		
BASED ON INSULATION HAVING A CONDUCTIVITY (R) NOT EXCEEDING 0.27 BTU PER INCH/H FT2 °F		BASED ON INSULATION HAVING A CONDUCTIVITY (R) NOT EXCEEDING 0.27 BTU PER INCH/H FT2 °F		BASED ON INSULATION HAVING A CONDUCTIVITY (R) NOT EXCEEDING 0.27 BTU PER INCH/H FT2 °F	

NOTE:
ALL PLUMBING INSULATION MUST MEET THE REQUIREMENTS OF THE 2020 NYC ENERGY CONSERVATION CONSTRUCTION CODE.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE

SECTION 15055 - COMMON PIPING REQUIREMENTS
PART 1 - GENERAL
A. SECTION REQUIREMENTS
1. Comply with the requirements of the Building Code and the local authority having jurisdiction.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
B. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install piping free of sags and bends.
B. Install fittings for changes in direction and branch connections.
C. Install sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.
D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for wall sleeves.
E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
F. Install unions adjacent to each valve and at final connection to each piece of equipment.
G. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
H. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
I. Provide full ring escutcheons at plumbing penetrations through walls or ceilings. Tightly seal escutcheons to the adjacent surface.
3.2 HANGERS AND SUPPORTS
A. Install building attachments within concrete or to structural steel. Install additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and at changes in direction of piping.
B. Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
C. Install mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
D. Support fire protection system piping independent of other piping.
E. Load Distribution: Install hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 15055

SECTION 15080 - MECHANICAL INSULATION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.
PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
B. Insulate fittings, valves, and specialties.
C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
D. Cool glass fiber pipe insulation ends with vapor barrier coating.
E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing.
F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
K. Interior Piping System Applications: Insulate the following piping systems:
1. Domestic hot and cold water.
2. Exposed sanitary drains of fixtures for the disabled.
3. Refrigerant piping.
L. Do not apply insulation to the following systems, materials, and equipment:
1. Flexible connectors.
2. Fire protection piping systems.
3. Sanitary drainage and vent piping.
4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.
M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
1. Domestic Hot and Cold Water: 1/2-inch preformed glass fiber pipe insulation.
2. Sanitary Drains: 1/2-inch polyolefin pipe insulation.
END OF SECTION 15080

SECTION 15110 - VALVES
PART 1 - GENERAL (Not Applicable)
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder-joint connections shall comply with ANSI B16.18.
B. Ball Valves: Rated for 150 psig saturated steam pressure, 400 psig WOG pressure; 2 piece construction; with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TFE" seats and seals, blowout proof stem, and vinyl covered steel handle.
C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded ends.
D. Swing Check Valves: Class 125, cast bronze body and cap; with horizontal swing, Y-pattern, and bronze disc.
E. Valves for Copper Tube: Solder ends, except provide threaded ends for heating hot water and low pressure steam service.
F. Valves for Steel Pipe: Threaded ends.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Use gate and ball valves for shutoff duty and ball for throttling duty.
B. Locate valves for easy access and provide separate support where necessary.
C. Install valves for each fixture and item of equipment.
D. Install valves in horizontal piping with stem at or above center of pipe.
E. Install valves in a position to allow full stem movement.
F. Install check valves for proper direction of flow in horizontal position with hinge pin level.
END OF SECTION 15110

SECTION 15140 - DOMESTIC WATER PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping are as follows:
1. Service Entrance Piping: 100 psig.
2. Domestic Water Piping: 80 psig.
B. Comply with NSF 61 "Drinking Water System Components -- Health Effects."

PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.

2.2 FITTINGS
A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.
B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
C. Bronze Flanges: ASME B 16.24, Classes 150 and 300.
D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal seating surfaces, and solder joint, threaded, or solder joint and threaded ends. Threads complying with ASME B 1.20.1.

2.3 JOINING MATERIALS
A. Solder Filler Metal: ASTM B 32, lead free.
B. Brazing Filler Metals: AWS A5.8, alloys to suit system requirements.

PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.
B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having stops on supplies, and elsewhere as indicated.
C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
D. Install swing check valve on discharge side of each pump and elsewhere as indicated.
E. Install ball valves in each hot water circulating loop and discharge side of each pump.
3.2 PIPING INSTALLATIONS
A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturer.
B. Support vertical piping at each floor.
3.3 INSPECTING AND CLEANING
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.
END OF SECTION 15140

SECTION 15150 - SANITARY WASTE AND VENT PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head.

PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. Cast Iron Pipe: ASTM A 74, service weight, hub and spigot, hubless.
2.2 FITTINGS
A. Cast Iron: Shall conform to CISPI 301 and ASTM A 888. Gaskets shall conform to ASTM C564. Couplings shall conform to CISPI 310.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.
B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
3.2 INSPECTION
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 15150

SECTION 15410 - PLUMBING FIXTURES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water consumption of plumbing fixtures.
C. Comply with applicable standards below:
1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
2. National Sanitation Foundation Construction: NFS2.
3. Porcelain Enameled Fixtures: ASME A112.19.4M.
4. Slip Resistant Bathing Surfaces: ASTM F 462.
5. Stainless Steel Fixtures: ASME A112.19.3M.
6. Vitreous China Fixtures: ASME A112.19.2M.
PART 2 - PRODUCTS
2.1 Refer to the fixture schedule on drawing P200
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install fitting insulation kits on fixtures for the disabled.
B. Install fixtures with flanges and gasket seals.
C. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for the disabled to reach.
D. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
E. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.
F. Fasten wall mounted fittings to reinforcement built into walls.
G. Fasten counter mounted plumbing fixtures to casework.
H. Secure supplies to supports or substrate within pipe space behind fixture.
I. Set shower receptors and mop basins in leveling bed of cement grout.
J. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
K. Install water supply stop valves in accessible locations.
L. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated.
M. Install escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
N. Seal joints between fixtures and walls, floors, and counters using sanitary type, one part, mildew resistant, silicone sealant. Match sealant color to fixture color.
O. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.
P. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.
END OF SECTION 15410

SECTION 15425 - PLUMBING SPECIALTIES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Minimum Working Pressure Rating for Products:
1. Water Distribution Piping: 80 psig.
B. Submittals: Product Data.
PART 2 - PRODUCTS
2.1 Refer to fixture schedule on drawing P200.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install backflow preventers at each water-supply connection to mechanical equipment and where required by authorities having jurisdiction.
B. Install hose bibbs with integral or field-installed vacuum breaker.
C. Install floor drains at low points of surface areas and where indicated. Set tops of drains flush with finished floor.
1. Trap drains connected to sanitary building drain.
2. Install drain flashing collar or flange so no leakage occurs between drain and adjoining flooring. Maintain integrity of waterproof membranes.
END OF SECTION 15425

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(E)/EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GCO	GRADE CLEANOUT

SUPPLIER/VENDOR ABBREVIATIONS

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

2024-DB#2/P#1-4

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SHEET TITLE:
PLUMBING SPECIFICATIONS

SHEET NUMBER:
P-010.00
1 OF 6

DOB NOW Filing #: B01050687-S2

GENERAL NOTES:

A. THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

B. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE INCIDENTAL DEMOLITION WORK PRIOR TO BIDDING AND COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL EXISTING EQUIPMENT AS REQUIRED FOR THE INSTALLATION/CONSTRUCTION OF NEW WORK.

C. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE HEALTH, GOVERNMENTAL AND LOCAL CODE REQUIREMENTS. SEE SHEET G-001 FOR THE PREVAILING CODES.

D. PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC. LOCATED ABOVE INACCESSIBLE CEILINGS AND WALL CAVITIES. COORDINATE LOCATIONS WITH ARCHITECT.

E. COORDINATE ALL SLAB PENETRATIONS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.

F. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.

G. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.

H. NOT USED.

I. ALL PUBLIC USE LAVATORY FAUCETS SHALL HAVE AN AUTOMATIC SAFETY WATER MIXING DEVICE IN ACCORDANCE WITH ANSI/ASSE 1016 OR 1017.

J. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY LOCAL BARRIER FREE CODE REQUIREMENTS.

K. THE PLUMBING CONTRACTOR SHALL PROVIDE HEAT TRACING TAPE AND INSULATION AS REQUIRED FOR ALL PIPING INSTALLED WITHIN WALK-IN FREEZERS TO PREVENT PIPING FROM FREEZING. THE HEAT TRACING SHALL BE THERMON 10-FLX-1 OR EQUAL. COORDINATE THE INSTALLATION OF THE HEAT TRACING WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

L. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL EQUIPMENT NOT REUSED AS PART OF THE NEW WORK. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS ON ALL MATERIALS AND EQUIPMENT.

M. THE EQUIPMENT LOCATIONS INDICATED ON THIS DRAWING ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE FINAL INTENDED LOCATION OF ALL FLOOR MOUNTED EQUIPMENT WITH THE OWNER PRIOR TO ROUGH-IN.

N. PROVIDE STOP VALVES AT FIXTURES. IN ADDITION, PROVIDE SHUT OFF VALVES FOR ISOLATION OF FIXTURE GROUPS

O. INSULATE THE HOT AND COLD WATER AND CONDENSATE DRAINAGE PER THE SPECIFICATIONS AND DETAIL 2/P-400.

P. NOT USED.

Q. CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON WARM SIDE OF INSULATION.

R. WHERE THE WATER SUPPLY LINE SIZE SHOWN IN THE PLUMBING DRAWINGS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE SHOWN TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.

S. ALL WATER PIPING SHALL BE COPPER. NO PVC ALLOWED.

T. PERFORM FLOW TEST ON THE INCOMING WATER PRESSURE ON THE DOMESTIC WATER SYSTEM AT POSSESSION. IF WATER PRESSURE IS OVER 80 PSI THEN COORDINATE WITH CHIPOTLE CONSTRUCTION MANAGER TO PROVIDE A PRESSURE REGULATOR (WATTS LFU5B-Z3 OR EQUAL). PROVIDE RESULTS OF FLOW TEST TO THE ENGINEER FOR CONFIRMATION OF ADEQUATE CAPACITY.

U. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.

V. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

W. INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILINGS IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAY-IN CEILINGS.

PLUMBING SYMBOLS

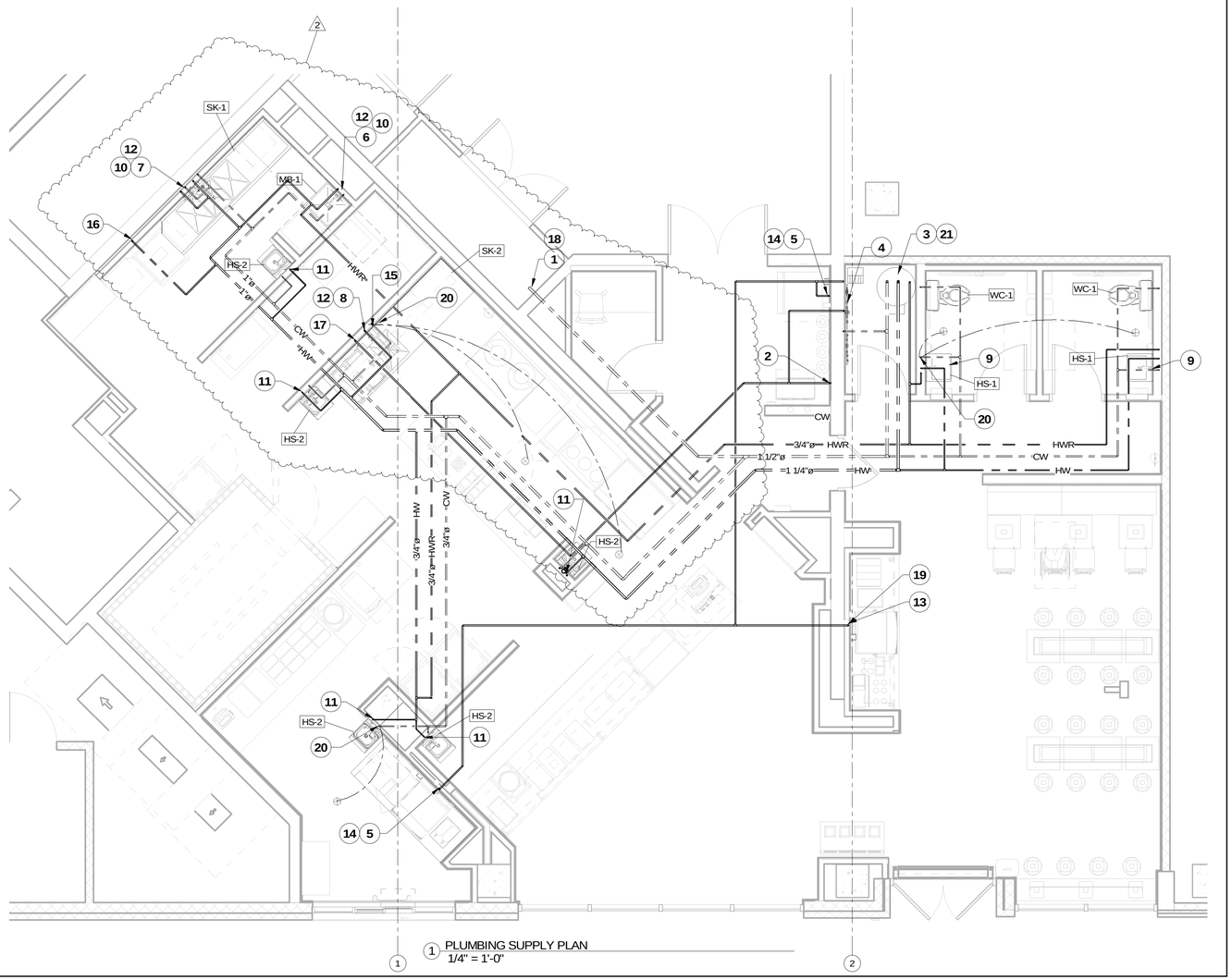
- ELBOW UP
- ELBOW DOWN
- DOMESTIC COLD WATER
- F — DOMESTIC FILTERED COLD WATER
- S — DOMESTIC SOFTENED COLD WATER
- DOMESTIC HOT WATER (110 DEGREES)
- DOMESTIC HOT WATER RECIRC.

- X — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- RPZ — REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- WM — WATER METER
- XX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P200 FOR EQUIPMENT INFORMATION
- VALVE
- WALL HYDRANT/ROOF HYDRANT
- CHECK VALVE
- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
- FLOOR DRAIN
- FLOOR SINK
- CLEANOUT

MATERIAL SCHEDULE		
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
WATER SUPPLY PIPE	ABOVE GRADE	TYPE L COPPER TUBE

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	CONNECT TO EXISTING SUB-METERED 1-1/2" DOMESTIC WATER SERVICE PROVIDED BY LANDLORD. VERIFY LOCATION IN FIELD, LOCATION SHOWN MAY NOT BE ACCURATE.
2	PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
3	PROVIDE WATER HEATER PER DETAIL 5/P-200.
4	PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 3/P400. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
5	PROVIDE 1/2" FILTERED WATER TO ICE MAKER AT 56" AFF. PROVIDE 6'-0" LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
6	PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
7	PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
8	PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
9	PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 4/P-200.
10	CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 11/P-400.
11	PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
12	PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
13	PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24"AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
14	INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
15	PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN. MAKE FINAL CONNECTION TO PREP SINK USING 3/4" BRAIDED STAINLESS STEEL WATER HEATER CONNECTOR HOSE.
16	PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING A 3/4" COPPER PIPE ONCE DISH MACHINE IS IN ITS FINAL LOCATION (FLEXIBLE CONNECTION IS NOT ACCEPTABLE). PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSIBLE SHUTOFF VALVE AND UNION BELOW THE DISH MACHINE AND INSTALL THE STRAINER FURNISHED WITH THE DISH MACHINE IN AN ACCESSIBLE LOCATION AT THE CONNECTION TO THE UNIT.
17	PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40"AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
18	PROVIDE AN ACCESSIBLE MAIN DOMESTIC WATER SHUTOFF VALVE ABOVE LAY-IN CEILING. VALVE SHALL BE 12" ABOVE THE TOP OF THE LAY-IN CEILING. PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE CEILING GRID BELOW THE VALVE.
19	INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV BELOW UTENSIL COUNTER PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
20	PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S).
21	WATER HEATER TO BE LOCATED ON CONCRETE CURB WITH DRAIN PAN. PIPE DRAIN PAN TO ADJACENT FLOOR SINK.



1 PLUMBING SUPPLY PLAN
1/4" = 1'-0"

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REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	08.16.2024	LL COMMENTS
2	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
1st FLOOR PLUMBING SUPPLY PLANS

SHEET NUMBER:
P-100.00
2 OF 6

DOB NOW Filing #: B01050687-S2

2024-DB#2/P#1-4

GENERAL NOTES:

A. THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

B. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE INCIDENTAL DEMOLITION WORK PRIOR TO BIDDING AND COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL EXISTING EQUIPMENT AS REQUIRED FOR THE INSTALLATION/CONSTRUCTION OF NEW WORK.

C. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE HEALTH, GOVERNMENTAL AND LOCAL CODE REQUIREMENTS. SEE SHEET G-001 FOR THE PREVAILING CODES.

D. PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC. LOCATED ABOVE INACCESSIBLE CEILINGS AND WALL CAVITIES. COORDINATE LOCATIONS WITH ARCHITECT.

E. ALL SANITARY LINES AND PLUMBING FIXTURES ON THE PROJECT SHALL HAVE AN APPROVED MEANS OF SEWAGE BACKFLOW PREVENTION. FIXTURE SPECIFIC BACKFLOW PREVENTION INCLUDING AIR GAPS AND VACUUM BREAKERS ARE AN ACCEPTABLE MEANS OF BACKFLOW PREVENTION.

F. COORDINATE ALL SLAB PENETRATIONS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.

G. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.

H. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.

I. THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL PRIOR TO BIDDING. THE TENANT CRITERIA MANUAL REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD REQUIREMENTS AT NO ADDITIONAL EXPENSE TO THE PROJECT.

J. PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG WADS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM BY SNAKING, RODING, OR JETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURNOVER TO THE OWNER.

K. ALL BELOW GRADE SANITARY LINES SHALL BE A MINIMUM OF 2" OR IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

L. SANITARY TEE FITTINGS SHALL NOT BE INSTALLED IN DRAIN, WASTE, AND VENT (DWV) SYSTEMS.

M. INSTALL SANITARY PIPING 2" OR SMALLER AT A SLOPE OF 1/4" PER FOOT AND SANITARY PIPING LARGER THAN 2" AT A SLOPE OF 1/8" PER FOOT.

N. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY LOCAL BARRIER FREE REQUIREMENTS.

O. THE PLUMBING CONTRACTOR SHALL PROVIDE HEAT TRACING TAPE AND INSULATION AS REQUIRED FOR ALL PIPING INSTALLED WITHIN WALK-IN FREEZERS TO PREVENT PIPING FROM FREEZING. THE HEAT TRACING SHALL BE THERMON 10-FLX-1 OR EQUAL. COORDINATE THE INSTALLATION OF THE HEAT TRACING WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

P. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL EQUIPMENT NOT REUSED AS PART OF THE NEW WORK. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS ON ALL MATERIALS AND EQUIPMENT.

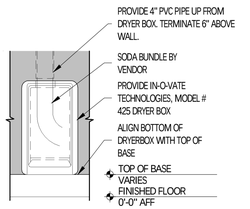
Q. THE EQUIPMENT LOCATIONS INDICATED ON THIS DRAWING ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE FINAL INTENDED LOCATION OF ALL FLOOR MOUNTED EQUIPMENT WITH THE OWNER PRIOR TO ROUGH-IN.

R. PRIOR TO TURNOVER, PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.

S. PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.

T. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.

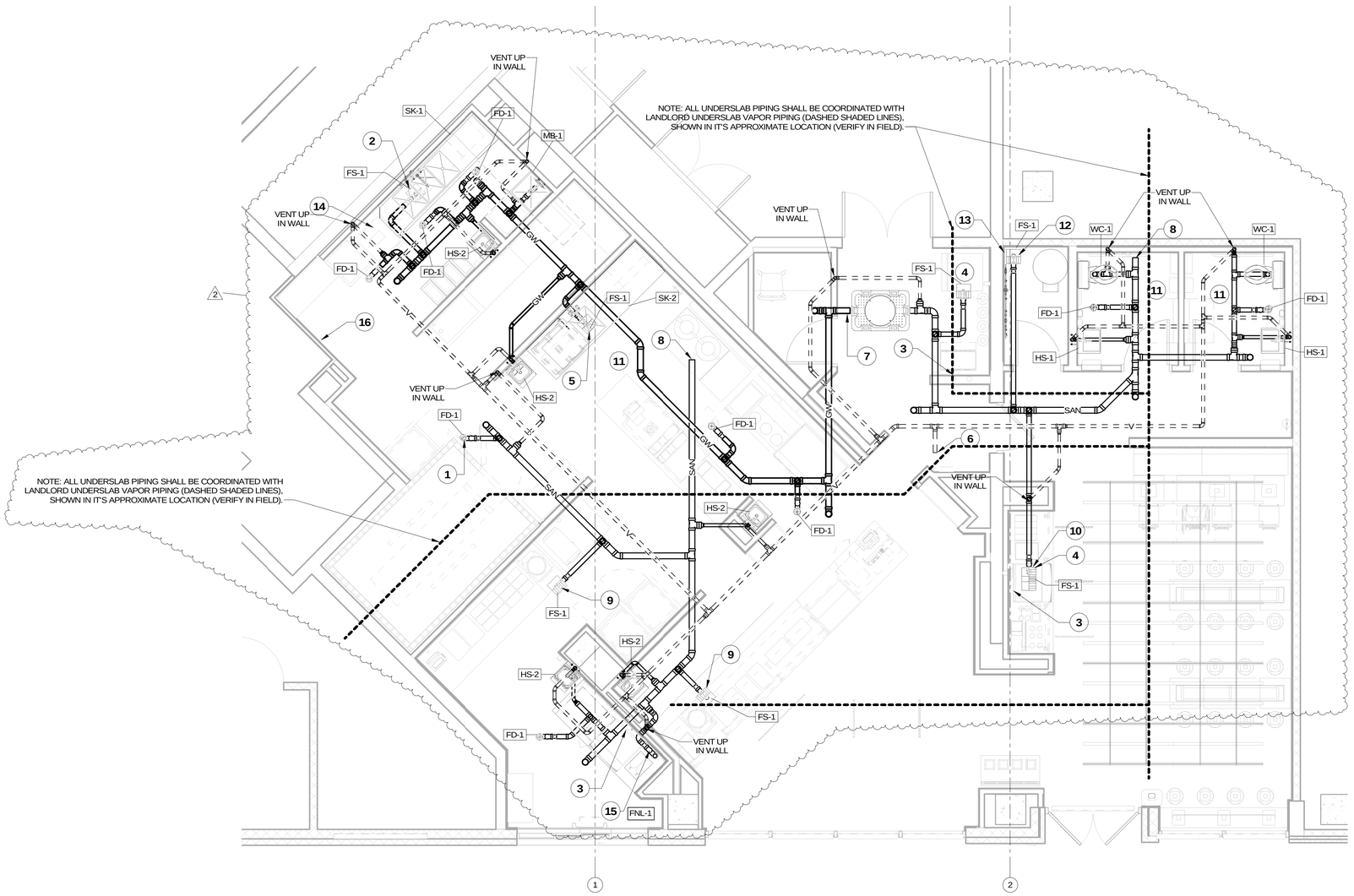
U. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.



3 SODA TERMINATION DETAIL
NOT TO SCALE

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR DRAIN AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AND DROP TO FLOOR DRAIN WITH AIR GAP.
2	PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 4/P-400.
3	COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL THIS SHEET.
4	PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.
5	PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
6	CONNECT TO EXISTING VENT MAIN PROVIDED BY LANDLORD. VERIFY LOCATION IN FIELD.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
7	PROVIDE NEW GREASE WASTE LINE CONNECTED TO NEW GREASE INTERCEPTOR. INTERCEPTOR TO BE INSTALLED SO ACCESS COVER IS FLUSH-IN-FLOOR. GREASE INTERCEPTOR TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
8	CONNECT TO EXISTING SANITARY SEWER BELOW SLAB. COORDINATE NEW BELOW SLAB PIPING WITH EXISTING FOOTINGS. VERIFY LOCATION IN FIELD PRIOR TO ROUGH-IN OF ANY PIPING.
9	PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
10	PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.
11	DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACES COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
12	PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 6/P-400.
13	PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR SINK, CONCEALED IN WALL AS SHOWN IN DETAIL 6/P-400.
14	INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.
15	SEE DETAIL 5/P-400 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.
16	COORDINATE WITH SPRINKLER CONTRACTOR FOR EXTENSION OF EXISTING SPRINKLER HUB DRAIN. PIPE HUB DRAIN FROM NEW LOCATION TO PREVIOUS LOCATION, ABOVE GROUND, AND RECONNECT.



1 PLUMBING WASTE & VENT PLAN
1/4" = 1'-0"

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
SANITARY WASTE AND VENT PIPE	ABOVE GROUND, CONCEALED	CAST IRON PIPE AND FITTINGS
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	COPPER PIPE AND FITTINGS
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW GROUND	CAST IRON PIPE AND FITTINGS

2024-DB#2/P#1-4

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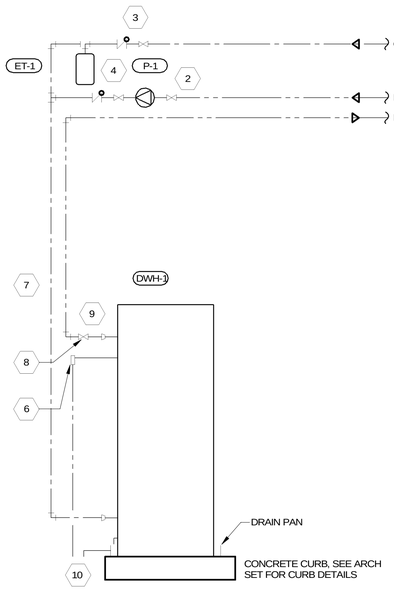
PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
1st FLOOR PLUMBING WASTE AND VENT PLAN

SHEET NUMBER:
P-102.00
3 OF 6

DOB NOW Filing #: B01050687-S2



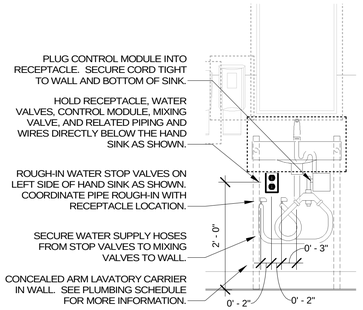
WATER HEATER DETAIL NOTES

1. NOT USED.
2. PROVIDE RECIRCULATION PUMP HWRP-1 AS SHOWN. SUPPORT PUMP FROM WALL OR STRUCTURE ABOVE. THE PUMP SHALL BE CONTROLLED BY A TIME CLOCK SET FOR THE OCCUPIED HOURS OF THE STORE AND AN AQUASTAT INSTALLED ON THE RECIRC. PIPE UPSTREAM FROM THE PUMP.
3. PROVIDE LINE-SIZE CHECK VALVES IN COLD AND RECIRCULATION WATER PIPES AS SHOWN.
4. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
5. NOT USED.
6. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIFE VALVE TO FLOOR DRAIN.
7. INSULATE EXPOSED AND CONCEALED HOT AND COLD WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
8. PROVIDE LINE-SIZE BALL VALVES IN COLD AND HOT WATER PIPES AS SHOWN.
9. IF THE COLD OR HOT LINE SIZE AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTION SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER. PROVIDE HEAT TRAP ON HOT WATER OUTLET PIPE
10. DRAINS TO FLOOR SINK, VIA AIR GAP

WATER HEATER INSTALLATION NOTES

A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE OWNER.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 130° F.
E. ROTATE WATER HEATER SO THAT ACCESS PANELS, FLUE DRAIN TRAP, AND CONTROL PANEL ARE READILY ACCESSIBLE FOR MAINTENANCE.

5 WATER HEATER HOOK-UP
NOT TO SCALE



4 RESTROOM HAND SINK DETAIL
NOT TO SCALE

PLUMBING FIXTURE / EQUIPMENT SCHEDULE

TAG	FIXTURE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	CONNECTION SIZES			FIXTURE UNITS (EACH)		
					HW	CW	WASTE	CW	HW	SAN
WC-1	WATER CLOSET	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.1 GPF, 17-1/8"-HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD RA TO THE MODEL # FOR RIGHT HAND TRIP LEVER).	--	1/2"	3"	10	--	6
HS-1A	RESTROOM HAND SINK	AMERICAN STANDARD	9024.001EC	ADA-ACCESSIBLE, WALL-MOUNTED PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK TO BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. PROVIDE TRUEBRO 103 E-Z PIPE INSULATION, PROVIDE OFFSET GRID DRAIN. APPROVED ALTERNATE: KOHLER K-2084	1/2"	1/2"	1 1/4"	1.5	1.5	1
HS-1B	RESTROOM HAND SINK FAUCET	FURNISHED BY KES	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME-OUT DELAY.	1/2"	1/2"	0"	1.5	1.5	0
HS-2	KITCHEN HAND SINK	FURNISHED BY KES	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET, T&S BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK.	1/2"	1/2"	1 1/2"	3.0	3.0	2
MB-1	MOP BASIN	FIAT	MSB2424	PROVIDE 24" X 24" X 10" MOLDED STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	--	--	3"	--	--	5
MB-1A	MOP BASIN FAUCET	KES	--	INSTALL SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACE FURNISHED BY KES.	1/2"	1/2"	--	2.25	2.25	0
FD-1	FLOOR DRAIN	SIOUX CHIEF	842-2-PNR	ADJUSTABLE CAST IRON FLOOR DRAIN WITH DECK FLANGE, ROUND POLISHED METAL RING AND STRAINER TRAP PRIMER CONNECTION	--	--	SEE PLANS	--	--	5
FS-1	FLOOR SINK	SIOUX CHIEF	861-23-D	HEAVY DUTY CAST IRON FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF CAST IRON GRATE	--	--	SEE PLANS	--	--	5
SK-1	THREE COMPARTMENT SINK	FURNISHED BY KES	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD ON FAUCET.	1/2"	1/2"	TO FS	1.5	1.5	--
SK-2	PREP SINK	FURNISHED BY KES	--	STAINLESS STEEL CHEF'S TABLE WITH INTEGRAL PREP SINK. FAUCET T&S MODEL #B-0293 WITH B-0199-01 AERATOR AT 2.2 GPM.	3/4"	3/4"	TO FS	1.5	1.5	--
ET-1	EXPANSION TANK	AMTROL	ST-5	2 GALLON CAPACITY	--	1/2"	--	--	--	--
P-1	RECIRCULATING PUMP	TACO	003-BC4-PNP	DOMESTIC HOT WATER CARTRIDGE-TYPE CIRCULATOR WITH INTEGRAL TIMER. PROVIDE WITH AQUASTAT 115 VOLTS, 1 PH, 60 HZ, 1 GPM SET AT 100°F.	1/2"	--	--	--	--	--
HB-1	HOSE BIBB	FURNISHED BY KES	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT WITH AN INTEGRAL VACUUM BREAKER. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	3/4"	3/4"	--	1.87	1.87	--
HB-2	HOSE BIBB	FURNISHED BY KES	--	SILL FAUCET WITH 1/2"NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET		1/2"	--	1.5	1.5	--
WCO	WALL CLEANOUT	ZURN	Z1446	WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ROUND, SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW. MOUTING HEIGHT SET AT 24" A.F.F.	--	--	--	--	--	--
FCO	FLOOR CLEANOUT	SIOUX CHIEF	852-3PNR (3") 852-4PNR (4")	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	--	--	--	--	--	
WH1	FREEZE PROOF WALL HYDRANT	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER.		3/4"				
RH1	FREEZE PROOF ROOF HYDRANT	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. HOEPTNER PRODUCTS 408-847-7615.		3/4"				
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	--	1/2"	--	--	--	--
FNL-1	FUNNEL DRAIN	J.R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET			2"			
TP-1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	--	1/2"	--	--	--	--
GI	GREASE INTERCEPTOR	SCHIER	GB-75	75 GPM, 861 LBS GREASE RETENTION 1			4"			
PF-1	POT FILLER	FURNISHED BY KES	--	WALL-MOUNTED POT FILLER WITH SELF CLOSING FILLER VALVE AND 3/8" NPT FEMAILE INLET	--	1/2"	--	1.5	--	--

WATER HEATER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER AND MODEL NO.	INPUT KW	DELIVERY
DWH-1	ELECTRIC STORAGE TANK WATER HEATER	A.O. SMITH DRE-120 119 GALLONS 24KW, 208V-3 PHASE	24	109 GPH @ 90° RISE

VALVE SCHEDULE

TYPE	MANUFACTURER	THREADED/FLANGED PIPING		SOLDERED/BRAZED PIPING
		2" AND SMALLER	2-1/2" AND LARGER	3" AND SMALLER
BALL	JENKINS	901A	---	902A
	MILWAUKEE	BA100	---	BA150
	STOCKHAM	S-216-BR1-R-T	---	S-216-BR1-R-S
CHECK	JENKINS	4092	624-C	4093
	MILWAUKEE	509	F2974	1509
	STOCKHAM	B-319	G-931	B-309
AUTOMATIC BALANCING	HAYS	43-45-2510-0.50-P/T	N.A.	N.A.

NOTES:
1. VALVES MATERIAL (BODIES, DISC, GASKETS, LININGS, PACKINGS, ETC.) SHALL BE APPROVED FOR THE SERVICE IN WHICH THEY ARE INSTALLED.
2. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE INDICATED.
3. VALVES SHALL BE EQUIPPED WITH ACCESSORIES AS REQUIRED.

2024-DB#2/P#1-4

Consultant:

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1510 BROADWAY
BROOKLYN, NY 11221

REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

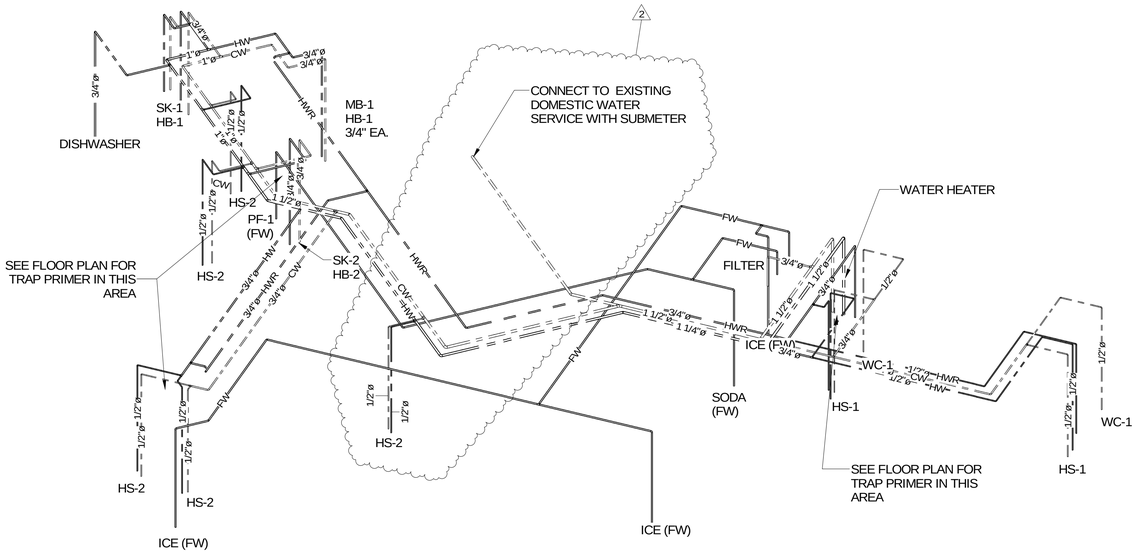
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PROJECT NUMBER:
22151

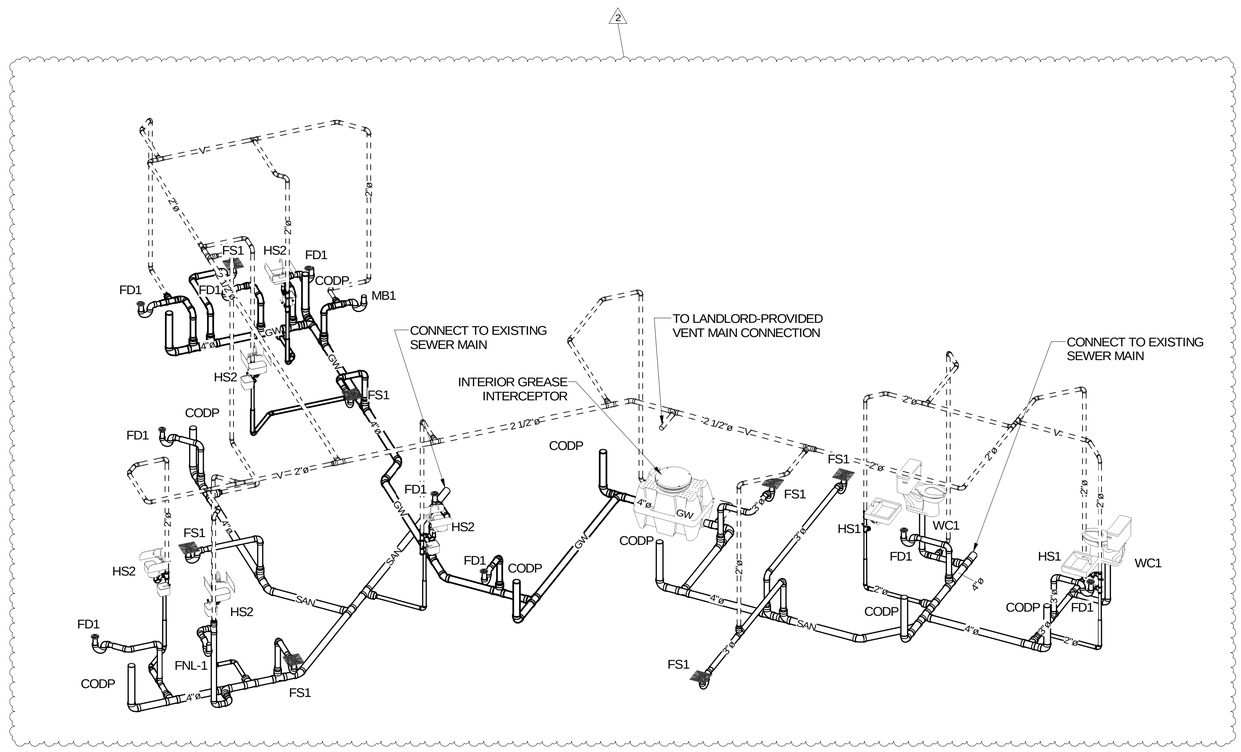
SHEET TITLE:
PLUMBING FIXTURE SCHEDULE

SHEET NUMBER:
P-200.00
4 OF 6

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2 3D View Water



1 3D View Sanitary

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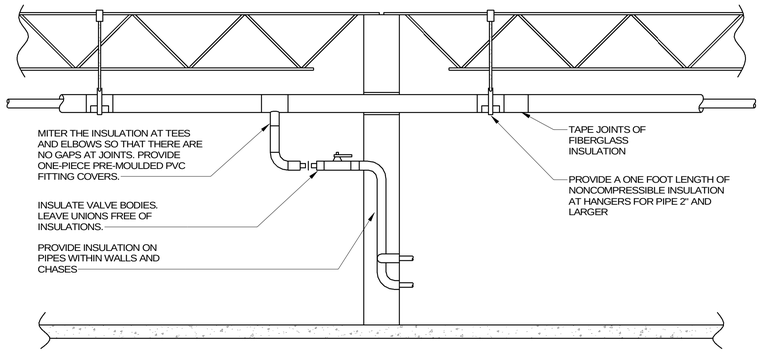
PROJECT NUMBER:
22151

SHEET TITLE:
1st FLOOR RISER DIAGRAMS

SHEET NUMBER:
P-300.00
5 OF 6

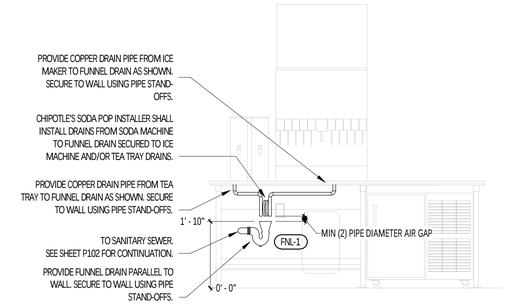
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PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. UNLESS NOTED OTHERWISE PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.

2 PIPE INSULATION DETAIL
NOT TO SCALE



5 PUW FUNNEL DRAIN DETAIL
1/2" = 1'-0"

4 WARE-WASHING SINK DETAIL
NOT TO SCALE

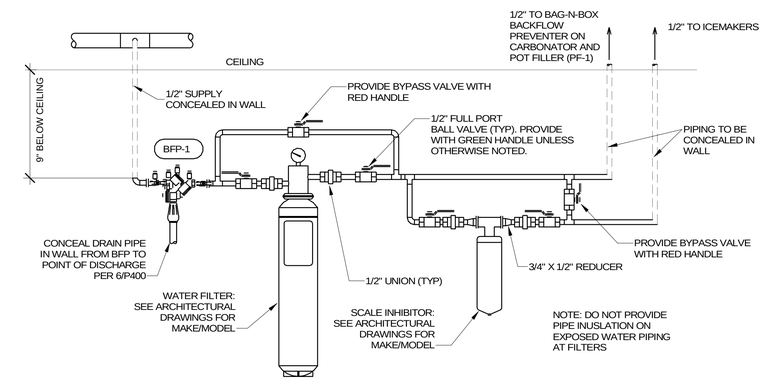
PROVIDE FLOOR CLEANOUTS WHERE SHOWN ON PLANS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. PROVIDE ROUND SECURED ADJUSTABLE TOP WITH "CO" ON COVER THAT IS SUITABLE FOR THE FLOOR FINISH (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS).

9 FLOOR CLEANOUT DETAIL
NOT TO SCALE

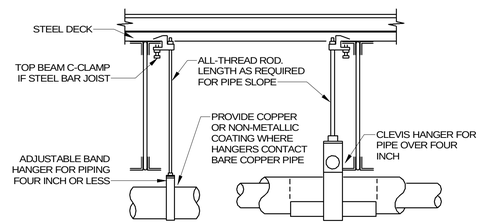
6 INDIRECT WASTE PIPING DETAIL
NOT TO SCALE

NOTE:
DETAIL FOR THROUGH PENETRATION OF A GYPSUM WALL WITH A FIRE RATING OF1, 2, 3, OR 4 HOURS BY METAL PIPE OR CONDUIT WITH SIZES OF 12" OR LESS FOR STEEL PIPE, 12" OR LESS FOR CAST IRON SOIL PIPE, 12" OR LESS FOR DUCTILE IRON PRESSURE PIPE, 6" OR LESS FOR STEEL CONDUIT, 4" OR LESS FOR STEEL ELECTRICAL METALLIC TUBING, 6" OR LESS FOR COPPER TUBING AND 1" OR LESS FOR FLEXIBLE STEEL CONDUIT.

7 THROUGH PENETRATION DETAIL W-L-1001
NOT TO SCALE

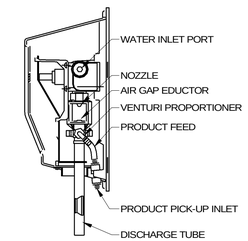


3 WATER FILTRATION
NOT TO SCALE



PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

10 PIPE INSULATION/HANGER DETAIL
NOT TO SCALE



11 CHEMICAL DISPENSER DETAIL
NOT TO SCALE

2024-DB#2/P#1-4

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1	08.16.2024	LL COMMENTS
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PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P-400.00
6 OF 6

DOB NOW Filing #: B01050687-S2

ELECTRICAL SPECIFICATIONS

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE
PART 1 GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
1.2 SUMMARY
A. This section includes temporary lighting and power with luminaries, panelboards, circuit breakers. and enclosures.
B. Related sections include the following:
1. Division 16 Section "Grounding",
2. Division 16 Section "Wiring Devices"
3. Division 16 Section "Circuit Breakers"
4. Division 16 Section "Panel boards"
1.3 DEFINITIONS
A. GFCI: Ground fault current interrupter.
B. RMS: Root Mean Square
C. SPDT: Single Pole, Double Throw
1.4 USE CHARGES
A. General: Cost or use charges for temporary facilities are not chargeable to Owner, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:
1. Owner's construction forces.
2. Occupants of Project.
3. Architect.
4. Engineer.
5. Testing agencies.
6. Personnel of authorities having jurisdiction.
B. Permanent Service: Coordinate with building owner and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.
1.5 NOTIFICATION
A. Coordinate with owner to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.
1.6 QUALITY ASSURANCE
A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
2. Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
3. Comply with OSHA standards and regulations.
PART 2 PRODUCTS
2.1 MATERIALS
A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
C. Main panelboard with disconnect.
D. Temporary lighting.
E. 120 volt receptacles with overcurrent protection.
F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.
1. Outdoor Locations: NEMA 250, Type 3R.
PART 3 EXECUTION
3.1 INSTALLATION
A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
3. Provide metal conduit enclosures or boxes for wiring devices.
4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
2. Provide one 100-W incandescent lamp every 50 feet (15 m) in traffic areas.
3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.
4. Install lighting for Project identification sign.
END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.
1.2 QUALITY ASSURANCE
A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
1. Comply with UL 467.
PART 2 - PRODUCTS
2.1 GROUNDING CONDUCTORS
A. For insulated conductors, comply with Division 16 Section "Wiring Methods."
B. Material: Copper.
C. Equipment Grounding Conductors: Insulated with green-colored insulation.
D. Grounding Electrode Conductors: Stranded cable.
E. Bare Copper Conductors: Comply with the following:
1. Solid Conductors: ASTM B 3.
2. Assembly of Stranded Conductors: ASTM B 8.
2.2 CONNECTOR PRODUCTS
A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.
PART 3 - EXECUTION
3.1 APPLICATION
A. Use only copper conductors.
B. In raceways, use insulated equipment grounding conductors.
C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.
3.2 EQUIPMENT GROUNDING CONDUCTORS
A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.
3.3 INSTALLATION
A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
3.4 CONNECTIONS
A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
END OF SECTION 16060

SECTION 16100 - WIRING METHODS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.
PART 2 - PRODUCTS
2.1 WIRES AND CABLES
A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.
2.2 RACEWAYS
A. Wireways: Screwed cover type, with manufacturers standard finish.
B. Outlet and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior damp locations.
C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.
2.3 ENCLOSURES
A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install wires and cables according to the NECA's "Standard of Installation.
B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
K. Stub-up Connections for Equipment: Extend conductors to equipment with intermediate metal conduit; flexible metal conduit may be used 6 inches above the floor.
L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.
3.2 IDENTIFICATION MATERIALS AND DEVICES
A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
C. Identify raceways and cables with color banding as follows:
1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
3. Colors: As follows:
a. Telecommunication System: Green and yellow.
D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:

120/208V

1. Phase A: Black
2. Phase B: Red
3. Phase C: Blue
4. Neutral: White
5. Ground: Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NEMA WD 1.
C. Comply with NFPA 70.
PART 2 - PRODUCTS
2.1 DEVICES
A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
B. Color: Per Material Schedule on sheet E010.
C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
E. Isolated-Ground Receptacles: to the green grounding screw isolation from mounting strap. Equipment grounding contacts connected only terminal of the device with inherent electrical
F. Snap Switches: Heavy-duty, quiet type.
G. Wall Plate: Per Material Schedule on sheet E010.
H. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install devices and assemblies plumb and secure.
B. Mount devices flush, with long dimension vertical, of receptacles on top unless otherwise indicated. under single, multigang wall plates.
C. Protect devices and assemblies during painting.
D. Install wall plates when painting is complete.
END OF SECTION 16140

SECTION 16410 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS
PART 1 GENERAL (Not Applicable)
PART 2 PRODUCTS
2.1 SWITCHES
A. Enclosed, Nonfusible Switch: NEMA KS 1, Type HD, with lockable handle.
2.2 CIRCUIT BREAKERS
B. Enclosed, Molded-Case Circuit Breaker: NEMA AB 1, with thermal-magnetic trip unless otherwise indicated.
1. Characteristics: Frame size, trip rating, number of poles, and auxiliary devices as indicated.
2. Interrupting Rating: PER DRAWINGS
3. Thermal-Magnetic Circuit Breakers, 225 A and Larger: Trip units fixed
4. Current-Limiting Trips: Let-through ratings less than NEMA FU 1, Class RK-5.
5. Enclosure: NEMA AB 1, Type 1, unless otherwise specified or required to meet environmental conditions of installed location.
PART 3 - EXECUTION
3.1 TESTING
C. Perform visual and mechanical inspections and electrical tests stated in NETA ATS.
END OF SECTION 16410

SECTION 16442 - PANELBOARDS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NFPA 70.
C. Comply with NEMA PB 1.
PART 2 - PRODUCTS
2.1 PANELBOARDS AND LOAD CENTERS
A. A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
a. Square D Co.
b. Eaton Corp.; Cutler-Hammer Products.
c. General Electric Co.; Electrical Distribution & Control Div.
d. Siemens Energy & Automation.
B. Recessed, NEMA PB 1, Type 1.
1. Load Center Capacity: as shown on drawings.
2. Front: Secured to box with concealed trim clamps.
3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
4. Bus: Hard drawn copper of 98 percent conductivity.
C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
D. Contactors: NEMA ICS 2, Class A combination contactors.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install panelboards and accessory items according to NEMA PB 1.1. Indicate installed circuit loads in English and Spanish on a typed circuit directory after balancing panelboard loads. Install labeling called for in the electrical drawings using engraved phenolic plates on wall immediately above receptacles.
B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
F. Perform visual and mechanical inspections and electrical tests stated In NETA ATS.

END OF SECTION 16442

SECTION 16500 - LIGHTING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals:
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted In ceiling space and on ceiling.
PART 2 - PRODUCTS
2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL
A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to prevent warping and sagging.
B. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.
C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Set units level, plumb, and square with ceiling and walls, and secure.
B. Support for Recessed and Semirecessed Grid-Type Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.
END OF SECTION 16500

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
(E)/EXT'G	EXISTING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

SUPPLIER/VENDOR ABBREVIATIONS

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEM SUPPLIER
TAB	TENANT'S TEST & BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- A-6 — HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- X/Y/Z — DISCONNECT SWITCH: X = SWITCH RATING; Y = FUSE SIZE (NF = NON-FUSED); Z = NUMBER OF POLES
- J — JUNCTION BOX
- ELECTRIC PANELBOARD
- $ — GENERAL PURPOSE 1-POLE SWITCH
- $ M — MANUAL STARTER WITH PILOT LIGHT
- $ WP — WEATHER-PROOF SWITCH
- $ D — WALL MOUNTED DIMMER SWITCH
- $ OC — OCCUPANCY SENSOR ACTIVATED WALL SWITCH
- NEMA 5-20R 1-PLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
- IG/GFI — NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL#2095IGTRGRY(GRAY)
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUITS WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- KP — SECURITY SYSTEM KEYPAD: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION
- CO — CARBON MONOXIDE DETECTOR

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIALS
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	FIELD-MADE CORD (EXPOSED INDOOR LOCATIONS)	TYPE SO OR SJO SERVICE CORD WITH CU CONDUCTORS
CONDUIT	OUTDOOR, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT, EXPOSED WET OR DAMP LOCATIONS	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	CONNECTION TO VIBRATING EQUIPMENT, (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	LOW VOLTAGE, INDOOR ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (PVC SCH.40)
WIRING DEVICES	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACE	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON RICHLITE, HOT ROLLED STEEL, OR OTHER BLACK FINISHES	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE
	IG OR IG/GFCI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE

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REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

SHEET NUMBER:
E-010.00
1 OF 9

2024-DB#2/P#1-4

GENERAL LIGHTING NOTES:

A. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH 2011 NEW YORK CITY ELECTRICAL CODE (NYCEC) WITH LOCAL AMENDMENT AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET G-001 FOR THE PREVAILING CODES.

B. WIRING SHALL BE TWO #12, #12 GROUND IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

C. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.

D. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.

E. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.

F. ALL EXPOSED CONDUITS SHALL BE INSTALLED 1/2" FROM THE WALL.

G. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

H. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE PLANS, AND FAMILIARIZE HIMSELF WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK.

I. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.

J. RECESSED BOXES AND CONDUITS CONCEALED WITHIN WALLS OR FLOORS THAT ARE TO REMAIN ARE PERMITTED TO BE ABANDONED IN PLACE ONLY IF THE OPENINGS ARE PATCHED AND THE CONDUCTORS ARE REMOVED.

K. THE OWNER SHALL HAVE FIRST SALVAGE RIGHT ON ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS THE OWNER REJECTS.

L. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.

M. SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.

N. LUMINAIRES MARKED "EX" ARE EXISTING LUMINAIRES THAT ARE TO REMAIN IN PLACE. ALL EXISTING LUMINAIRES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED TO A LIKE-NEW CONDITION, THOROUGHLY CLEANED, AND RELAMPED. ANY EXISTING LUMINAIRES THAT ARE DAMAGED BEYOND REPAIR SHALL BE REPLACED WITH AN IDENTICAL LUMINAIRE.

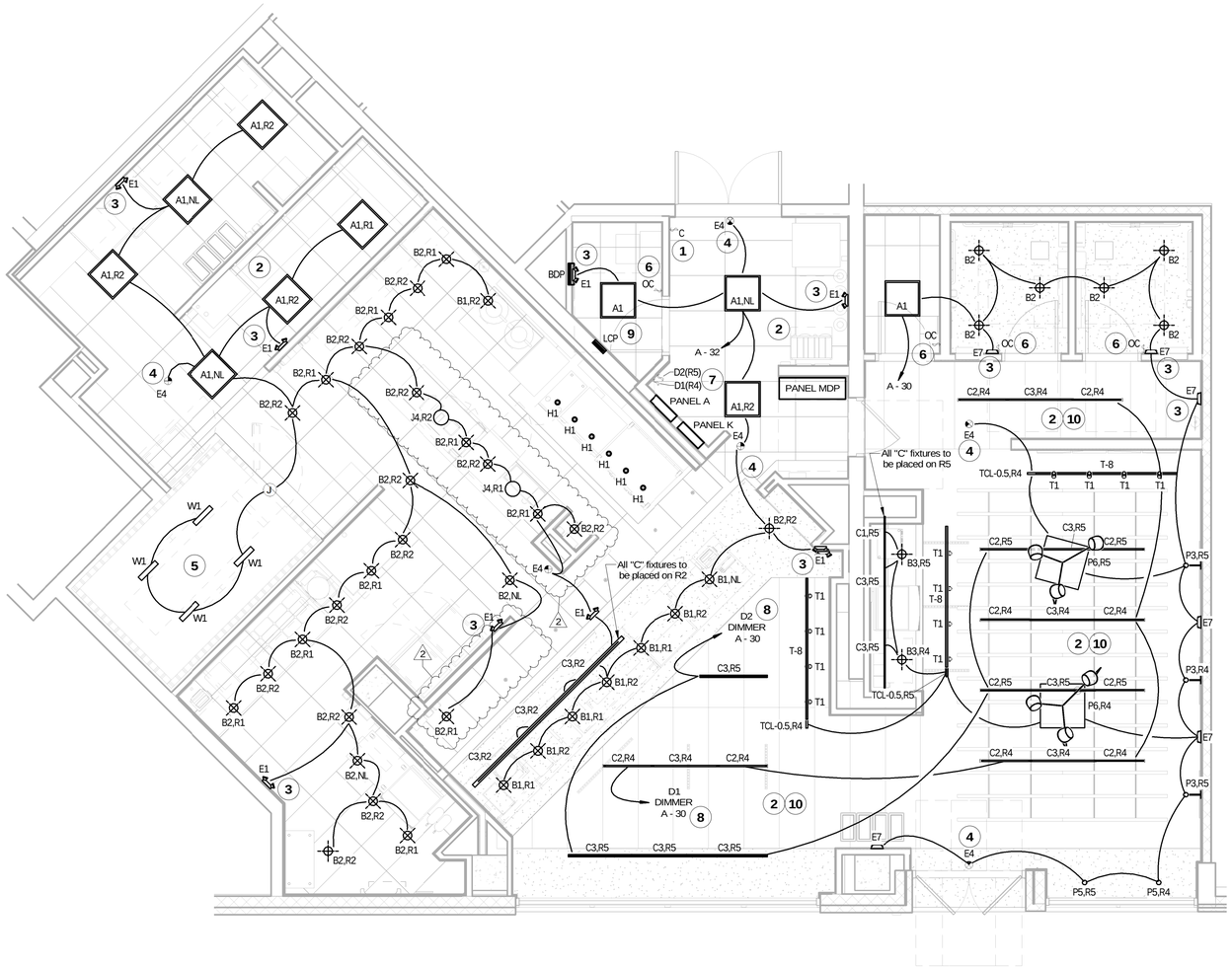
O. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL PLANS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES (WHITE WITH BLACK LETTERING).

P. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

Q. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS AND NIGHTLIGHTS AHEAD OF LOCAL SWITCHES.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	INSTALL WALL MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP. SEE SHEET E-101.
2	CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
3	WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE.
4	VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
5	INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
6	INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42"AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIME OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
7	INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED AND PENDANT LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
8	CONNECT DINING ROOM (RELAY CIRCUITS R4 & R5) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
9	INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 1/E-101.
10	PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.


A1,R2
A1,NL
A1,R1
A1,R2
A1,NL
A1,R2
A1,NL
A1,R2
PANEL MDP
PANEL A
PANEL K
LCP
BDP
A1
A - 30
A - 32
D2(R5)
D1(R4)
D2 DIMMER A - 30
D1 DIMMER A - 30
All "C" fixtures to be placed on R2
All "C" fixtures to be placed on R5
TCL-0.5,R4
TCL-0.5,R5
T-8
B3,R5
B3,R4
P6,R5
P6,R4
P3,R5
P3,R4
P5,R5
P5,R4
B2,NL
B1,NL
B1,R2
B1,R1
B2,R1
B2,R2
B1,R1
B1,R2
J4,R2
J4,R1
B2,NL
B2,R1
B2,R2
B2,R1
B2,R2
B2,R1
B2,R2

LIGHTING FIXTURE SCHEDULE

TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	BASIS FOR DESIGN			REMARKS
						MANUFACTURER	MODEL	LAMP	
A1	10	2x2 LED LENSED TROFFER	LAY-IN	120 V	30 W	NORA LIGHTING	NPDBL-E22/334 W	INTEGRAL 3000K LED	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	8	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	NORA LIGHTING	NHIC-6G24ATFL W/ NTM-57W/M1 TRIM	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27K-25 D LED (25°-2700K) W/ GU 24 BASE	
B2	32	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	120 V	17 W	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	2	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	120 V	12 W	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C1	1	LOW PROFILE LED - 2 FT	SURFACE	120 V	9 W	HERA LIGHTING	EL/LED/22/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	12	LOW PROFILE LED - 3 FT	SURFACE	120 V	12 W	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	15	LOW PROFILE LED - 4 FT	SURFACE	120 V	15 W	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	8	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	120 V	2 W	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E4	6	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD RED LETTERS	VARIOUS	120 V	2 W	EXITRONIX	CLED-U-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	6	EMERGENCY LIGHT	VARIOUS	120 V	2 W	EXITRONIX	EV2	INTEGRAL LED	90 MINUTE BATTERY BACKUP
H1	6	VAPOR PROOF HOOD LIGHT	SURFACE	120 V	15 W	FURNISHED W/ HOOD	FURNISHED W/ HOOD	(1) TCP L16A19N1527K	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	PENDANT	120 V	9 W	BARNLIGHT	BLE-C-CPT10-ASH-100-SBK-100-CAW	GREEN CREATIVE 9A19DIM/827/GU24/R	WITH BLACK LAMPSHADE, BLACK CORD, AND OAK LAMPHOLDER
P3	3	PENDANT	PENDANT	120 V	20 W	HI-LITE	H-CW2700-B	TCP FG25D4027CCQ	ACCENT LIGHT - ARTWORK LIGHT FIXTURE
P5	2	PENDANT	PENDANT	120 V	5 W	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	2	DECORATIVE DINING ROOM PENDANT	PENDANT	120 V	30 W	BARNLIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	HARDWIRED SET OF (3) AIM BLACK WITH MULTIPCANOPY AND 9M CABLES
T1	12	TRACK HEAD	TRACK	120 V	10 W	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-8	3	TRACK (8 FT)	SURFACE	120 V	0 W	JUNO	T 8FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
TCL-0.5	3	TRACK CURRENT LIMITER (60W)	SURFACE	120 V	0 W	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
W1	4	WIC LED LIGHT	SURFACE	120 V	29 W	FURNISHED W/ WIC	FURNISHED W/ WIC	INTEGRAL LED	WET-RATED COOLER FIXTURE

LIGHTING FIXTURE SCHEDULE GENERAL NOTES

A. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT FIXTURE LOCATIONS.
B. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR LIGHT FIXTURE CONSTRUCTION DETAILS.

LIGHTING CONTROL PANEL SCHEDULE: LCP

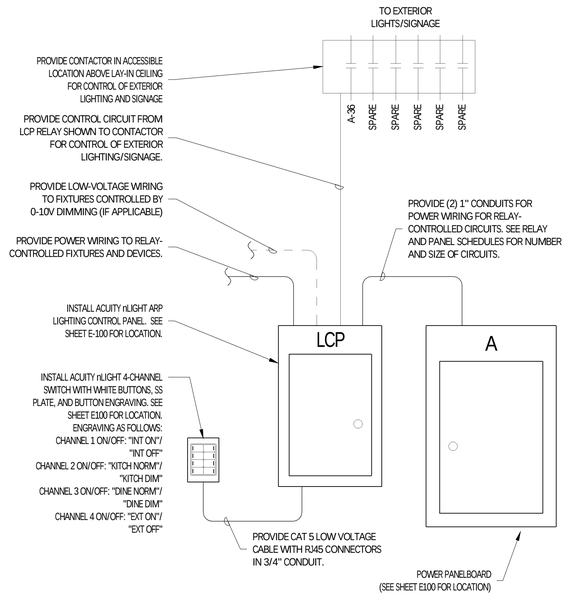
RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE	TIMECLOCK			N/A	SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6			SPARE	TIMECLOCK			N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8			EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL PANEL SCHEDULE NOTES

A. DUPLICATE PANEL SCHEDULE AND PERMANENTLY INSTALL WITHIN THE LIGHTING CONTROL PANEL.

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 NLT 8RCR MVOLT HLK FM DTC CPTLE1	8 RELAY PANEL FOR ON/OFF CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$C	WALL-MOUNTED OVERRIDE SWITCH	1	TLS	GC	ACUITY	nPODMA 4P	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
$OC	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	4	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING



1 ELEC-LIGHTING CONTROL DIAGRAM
NOT TO SCALE

SEQUENCE OF OPERATIONS

A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, & R7) SHALL BE ENERGIZED FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS (R4 & R5) SHALL BE ENERGIZED FROM 10:00 AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
E. EXTERIOR LIGHTING/SIGNAGE RELAY (R8) SHALL BE ENERGIZED FROM ONE HOUR BEFORE SUNSET UNTIL ONE HOUR AFTER CLOSING AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
F. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITON. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
G. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS R1, R2, R3, R4, R5, & R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAYS R1 & R2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
I. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 3) RELAY R4 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
J. EXTERIOR (CHANNEL 4): WHEN THE EXTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 4) RELAY R5 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
K. VERIFY THAT TIME, TIME ZONE AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.

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REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	08.16.2024	LL COMMENTS
2	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
LIGHTING CONTROLS

SHEET NUMBER:
E-101.00
3 OF 9

2024-DB#2/P#1-4

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AS SHOWN ON THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E-700.
2	ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
3	PANEL 'K' SUB PANEL FED FROM A 200A-3POLE SHUNT TRIP CIRCUIT BREAKER IN PANEL 'MDP'. THE SHUNT TRIP SHALL BE CONNECTED TO THE HOOD CONTROL PANEL TO DE-ENERGIZE THE COOK LINE EQUIPMENT UPON ACTIVATION OF THE HOOD ANSUL SYSTEM.
4	JUNCTION BOX FOR EXTERIOR SIGN LIGHTING, COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 1/E101.
5	PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING & TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER & THE FIRE MARSHALL PRIOR TO ROUGH-IN.
6	HOOD CONTROL PANEL & KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE & OPERATIONAL SYSTEM. THE TANK FIRE SYSTEM USES ELECTRONIC DETECTION & HAS WIRING CONNECTIONS THAT NEED TO BE MADE BY BOTH THE ELECTRICAL AND LOW VOLTAGE/ALARM CONTRACTOR. SEE WIRING DIAGRAM ON THE CAPTIVE AIRE M-400 SERIES SHEETS.
7	PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
8	COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.
9	PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED AND INSTALL LAUNCHPORT FURNISHED BY CHIPOTLE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.
10	LOCATION OF (2) LANDLORD INSTALLED EMPTY 2" CONDUITS WITH PULL STRINGS FROM THE LANDLORD'S TELEPHONE & DATA SERVICE ENTRANCE LOCATIONS TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.
11	AFTER THE DML, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE DML, POS, AND OFFICE.
12	INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAILS 1 AND 2/E-710.
13	ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
14	ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
15	PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE HUBBELL TAYMAC MX6200. NO SUBSTITUTIONS SHALL BE ACCEPTED.
16	LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP".
17	LABEL MAIN DISCONNECT SWITCH "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
18	PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND SINGLE NEMA 5-20R RECEPTACLE IN OFFICE AT 102"AFF FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.
19	INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN AND TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.
20	PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 3/E-710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO (2) J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.
21	PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2 ALARM VENDOR AS SHOWN IN DETAIL 3/E-700.
22	PROVIDE J-BOX AND INSTALL C02 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2 ALARM VENDOR AS SHOWN IN DETAILS 3/E-700 AND 8/E-700.
23	INSTALL WALK-IN COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.

KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
24	PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 4/P-200.
25	PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.
26	SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
27	PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.
28	PROVIDE (2) 10"X10"X4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL LEVEL WITH TOP OF PANEL MDP AND MOUNTED ADJACENT TO MDP. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.
29	PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.
30	INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
31	CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
32	PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE AS SHOWN PER DETAIL 7/E-710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
33	PROVIDE RECEPTACLE FOR 1-DOOR REFRIGERATOR OR FUTURE REFRIGERATOR WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.
34	PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
35	LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".
36	LABEL RECEPTACLE "UV INSECT TRAP".
37	PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 3/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.
38	IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
39	PROVIDE SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.
40	MOUNT BOTTOM OF JUNCTION BOX AT 50" AFF FOR HARD WIRED CONNECTION TO ELECTRIC HAND DRYER. CONTRACTOR SHALL CONFIRM HAND DRYER ELECTRICAL SPECIFICATIONS WITH THE CHIPOTLE CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
41	PROVIDE POWER AND CIRCUITING FOR 208V-3PH, 24 KW, ELECTRIC WATER HEATER.
42	CONTRACTOR SHALL FURNISH & INSTALL (2) NEMA 15-50 RECEPTACLES ON THE WALL BEHIND THE GRIDDLE (PLANCHA) FOR FUTURE PLANCHAS INCLUDING CONDUCTORS & CIRCUIT BREAKER IN PANEL K.
43	PROVIDE A RECESSED J-BOX AT 48" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 3/4" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA. TERMINATE CONDUIT WITH A CONDUIT BUSHING.
44	MAKE FINAL CONNECTION TO PICK UP WINDOW THROUGH CIRCUIT SHOWN.
45	PROVIDE IG/GFCI RECEPTACLE FOR SECURITY MONITOR IN WALL ABOVE PICK-UP WINDOW. LABEL "SECURITY MONITOR ONLY".
46	FURNISH AND INSTALL GFCI BLOCKS FOR PANEL K (STACKED). SEE PANEL SCHEDULE K FOR FURTHER INFORMATION.
47	FURNISH AND INSTALL CHIME FOR WALK-UP WINDOW. SEE DETAIL 9/E-700 FOR MORE INFORMATION.
48	PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.
49	LABEL PANEL 'A' "WARNING: BATTERY-PROTECTED RECEPTACLES IN USES. DISCONNECT AT PANEL 'BDP'".

GENERAL POWER AND SYSTEMS NOTES:

A. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST NEW YORK CITY ELECTRICAL CODE (NYCEC) WITH LOCAL AMENDMENTS AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET G-001 FOR THE PREVAILING CODES.

B. WIRING SHALL BE TWO #12, #12 GROUND IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

C. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.

D. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.

E. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.

F. ALL EXPOSED CONDUITS SHALL BE INSTALLED 1/2" FROM THE WALL.

G. COORDINATE ALL KITCHEN EQUIPMENT REQUIREMENTS AND DEVICE LOCATIONS WITH THE FOODSERVICE CONTRACTOR PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT. THE ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY CORD-AND-PLUG CONNECTED EQUIPMENT THAT IS NOT EQUIPPED WITH AN INTEGRAL CORD AND PLUG.

H. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

I. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE PLANS, AND FAMILIARIZE HIMSELF WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK.

J. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.

K. RECESSED BOXES AND CONDUITS CONCEALED WITHIN WALLS OR FLOORS THAT ARE TO REMAIN ARE PERMITTED TO BE ABANDONED IN PLACE ONLY IF THE OPENINGS ARE PATCHED AND THE CONDUCTORS ARE REMOVED.

L. THE OWNER SHALL HAVE FIRST SALVAGE RIGHT ON ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED EQUIPMENT, DEVICES, LUMINAIRES, AND MATERIALS THE OWNER REJECTS.

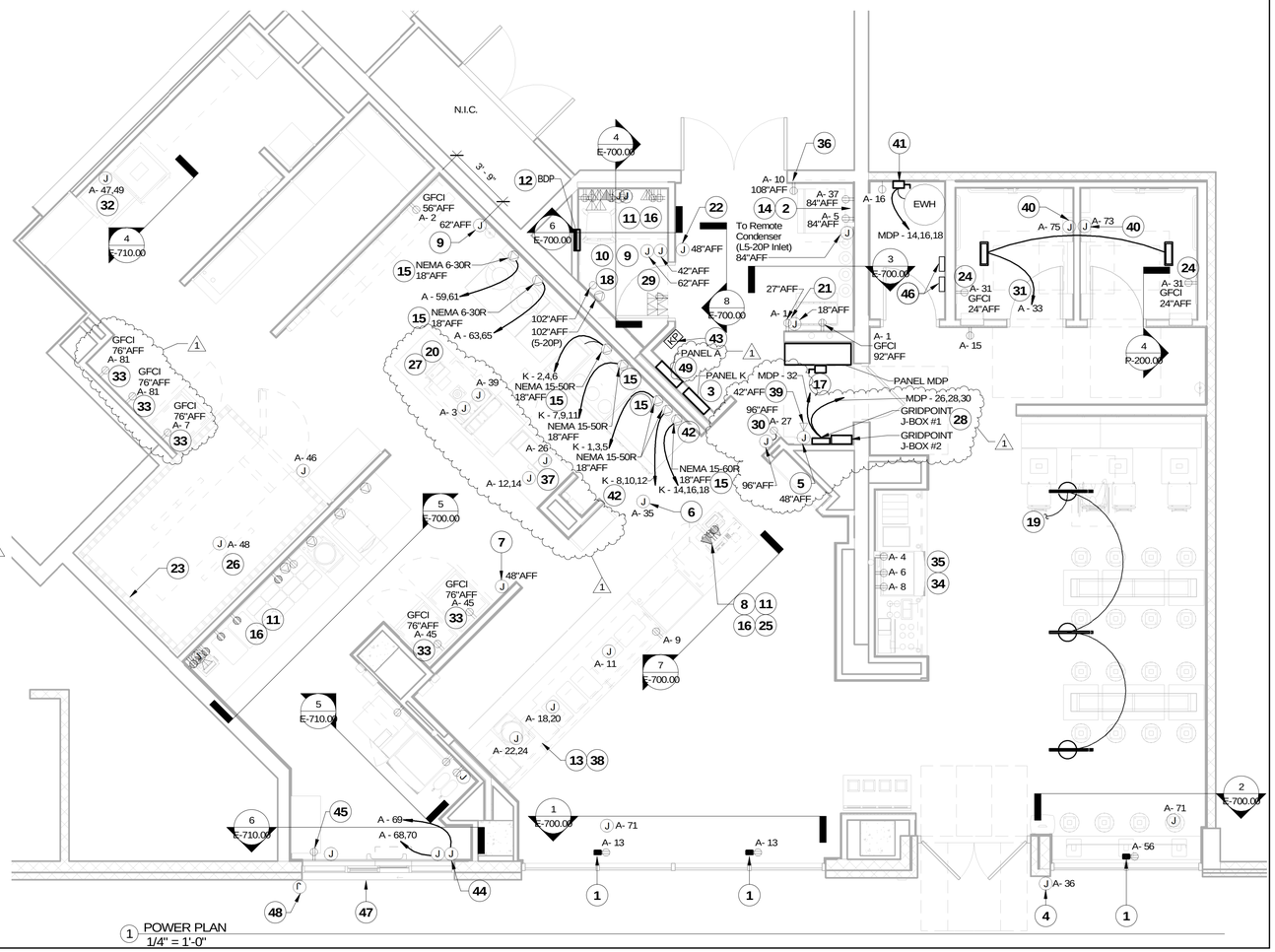
M. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.

N. SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.

O. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL PLANS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES (WHITE WITH BLACK LETTERING).

P. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

Q. PROVIDE 1" CONDUIT WITH PULLSTRING FROM EACH JUNCTION BOX FOR TELEPHONE OR DATA JACK TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE ON E-010 FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE ABOVE OFFICE CEILING WITH CONDUIT BUSHING.



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

Consultant:

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NY License #073765-1

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DRAWN BY: PCE
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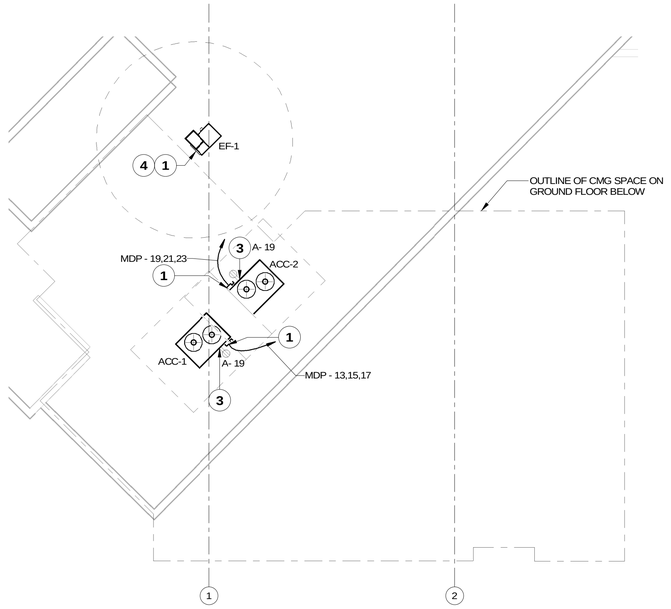
PROJECT NUMBER:
22151

SHEET TITLE:
1st FLOOR POWER PLAN

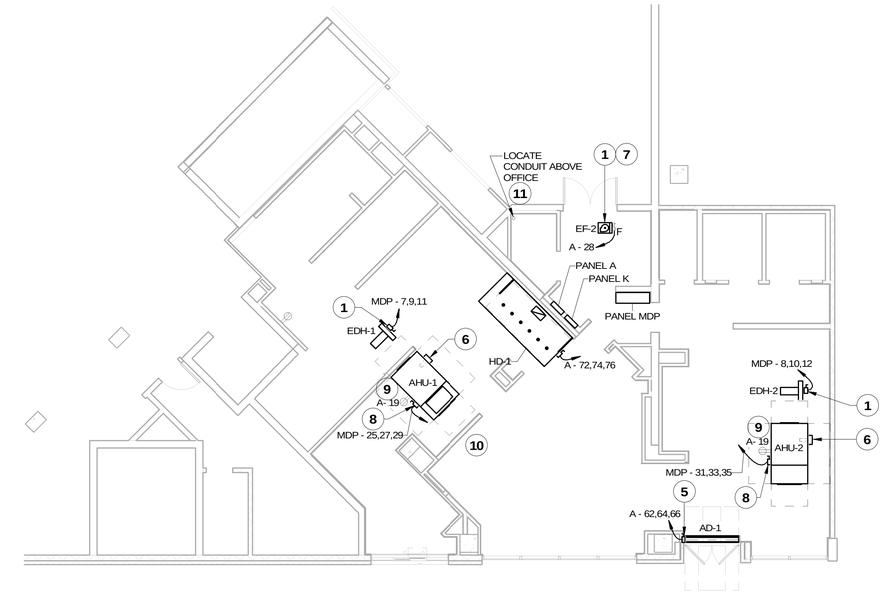
SHEET NUMBER:
E-110.00
4 OF 9

2024-DB#2/P#1-4

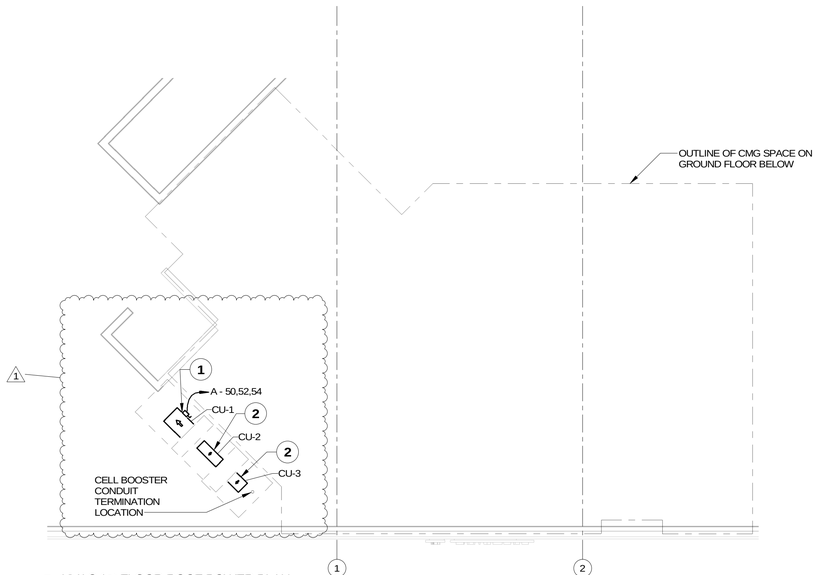
KEYNOTES FOR THIS SHEET 1 , 2 ETC.	
1	UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
2	PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSER.
3	HVAC UNIT SHALL HAVE INTEGRAL UNIT MOUNTED GFCI RECEPTACLE.
4	CIRCUIT EF-1 THROUGH HOOD CONTROL PANEL AND SEE CAPTIVE AIRE DRAWINGS IN M-SET. PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.
5	PROVIDE POWER TO HEATED AIR CURTAIN OVER DOOR, AND WIRING FOR CONTROLS. CONCEAL DISCONNECT(S) ON SIDE OF AIR CURTAIN. COORDINATE WITH CHIPOTLE CONSTRUCTION MANAGER FOR EXACT LOCATION.
6	INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 5/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT THE REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.
7	PROVIDE POWER TO RESTROOM EXHAUST FAN WITH LOCAL DISCONNECT SWITCH. VERIFY LOCATION IN FIELD. CONNECT EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP) IN THE OFFICE.
8	DISCONNECT SWITCHES ARE NOT FURNISHED WITH HVAC UNIT. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 60A-3P DISCONNECT SWITCH WITH 60A FUSES.
9	MAINTENANCE RECEPTACLE IS NOT FURNISHED WITH HVAC UNIT. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A WATERPROOF/GFCI RECEPTACLE AT THE UNIT.
10	LANDLORD PROVIDED ELECTRICAL POWER AND LOW VOLTAGE CONTROL WIRE CONDUITS IN THIS AREA TO CHIPOTLES SPACE FOR CHIPOTLES EXCLUSIVE USE. VERIFY WITH LANDLORD'S DRAWINGS EXACT LOCATION.
11	PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH 1ST FLOOR ROOF. SEE 2/E-120 FOR TERMINATION LOCATION. TERMINATE WITH WEATHERHEAD 12" ABOVE ROOF FOR FUTURE CELL BOOSTER.



3 HVAC 8th FLOOR ROOF POWER PLAN
1/8" = 1'-0"



1 1st FLOOR HVAC POWER PLAN
1/8" = 1'-0"



2 HVAC 1st FLOOR ROOF POWER PLAN
1/8" = 1'-0"

Consultant:

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DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
1st FLOOR, 1st FLOOR ROOF & 8th FLOOR ROOF HVAC POWER PLANS

SHEET NUMBER:
E-120.00
5 OF 9

2024-DB#2/P#1-4

Branch Panel: A

Location:
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 Series Rated
Mains Type:
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Carbonator / CO2 Alarm #6 GFCI Sistema de carbonatacion y alarma de CO2	20 A	1	1308 VA	1356 VA					1	20 A	Food Prep Table Receptaculo	2
3	Food Prep Table (Island) GFCI Mesa para la preparacion de alimentos (isla)	20 A	1			1356 VA	1128 VA			1	20 A	Soda System Dispenser GFCI Dispensador para el sistema de refrescos	4
5	Ice Maker Sanitizer GFCI Desinfectante de la maquina para hacer hielo	20 A	1					1440 VA	1380 VA	1	20 A	Ice Maker - Utensil Counter GFCI Maquina para hacer hielo	6
7	Upright Beverage Cooler GFCI (HACR) Refrigerador vertical	20 A	1	575 VA	1020 VA					1	20 A	Bubbler GFCI	8
9	Ready to Drink Refrigerator GFCI (2)	20 A	1			1056 VA	180 VA			1	20 A	UV Insect Light Trap GFCI	10
11	Cold Top (Serve Line) #1 GFCI Refrigerador	20 A	1					1440 VA	1080 VA	2	20 A	Carving Station #11 GFCI (2#10,#10G,3/4"C) Estacion para cortar carnes	12
13	Receptacles - Storefront Receptaculos - Frente del restaurante	20 A	1	360 VA	1080 VA					--	--	--	14
15	Receptacle - Dining Receptaculo - Comedor	20 A	1			180 VA	200 VA			1	20 A	Recirculating Pump	16
17	Panel BDP	20 A	1					2196 VA	2080 VA	2	30 A	Hot Food Server (ServeLine) GFCI (2#10,#10 N, #10G,3/4"C) Servidor Caliente del Alimento	18
19	Receptacles - HVAC Equipment Receptaculos - Techo	20 A	1	720 VA	2080 VA					--	--	--	20
21	Receptacles - POS General Receptaculos - Cajero general	20 A	1			720 VA	1350 VA			2	20 A	Tortilla Press (Serve Line) #2 GFCI Calentador de tortillas (2#10,#10 N,#10G,3/4"C)	22
23	Security/Audio Sistema de la Seguridad	20 A	1					360 VA	1350 VA	--	--	--	24
25	Undercounter Cooler (Pick-up Window) GFCI	20 A	1	200 VA	300 VA					1	20 A	Refrigerator (Cook Line) #12 GFCI Refrigerador (Linea Para Cocinar)	26
27	Receptacles Office/Door Buzzer GFCI Receptaculos - Oficina	20 A	1			900 VA	242 VA			1	20 A	Restroom Exhaust EF-2 (HACR)	28
29	Receptacles - DML GFCI Receptaculos - Fax	20 A	1					720 VA	635 VA	1	20 A	Lighting - Dining Room Illuminacion - Comedor	30
31	Receptacles - Restrooms Receptaculos - Banos	20 A	1	360 VA	1181 VA					1	20 A	Lighting - Front of Kitchen Illuminacion - Cocina de en frente	32
33	Bathroom Sanitizer Sanitizante de bano	20 A	1			22 VA	1200 VA			1	20 A	Cold Top (DML) #39 GFCI Tabla fria (linea de fax)	34
35	HD-1 (Control & Lights) Control y Luces	20 A	1					500 VA	1200 VA	1	20 A	Signage - Front Illuminacion para letreros	36
37	Ice Maker (BOH) GFCI Maquina para hacerhielo	20 A	1	1840 VA	0 VA					1	20 A	Spare	38
39	Food Warmer (Rice Table) #26 GFCI Calentador de alimentos (mesa para el arroz)	20 A	1			180 VA	1150 VA			1	20 A	Soda Machine (Pick-up Window) GFCI	40
41	Tortilla Press (DML) GFCI (2#10,#10G,3/4"C) Calentador de tortillas	20 A	2					250 VA	48 VA	1	20 A	Lighting Control Panel	42
43	--	--	--	250 VA	1200 VA					1	20 A	Foodwarmer (DML) GFCI Calentador de alimentos (linea de fax)	44
45	Upright Beverage Coolers GFCI (HACR) Refrigerador vertical	20 A	1			1150 VA	200 VA			1	20 A	Walk-in Cooler - Door Section	46
47	Dish Machine (2#10,#10G,3/4"C) Lavavajillas	30 A	2					2600 VA	200 VA	1	20 A	Walk-in Cooler - Evaporator (HACR)	48
49	--	--	--	2600 VA	781 VA					3	15 A	Walk-in Condensing Unit (CU-1)(3#12,#12G,3/4"C) (HACR)	50
51	Quesadilla Maker GFCI (2#10,#10G,3/4"C)	30 A	2			3000 VA	781 VA			--	--	--	52
53	--	--	--					3000 VA	781 VA	--	--	--	54
55	Quesadilla Maker GFCI (2#10,#10G,3/4"C)	30 A	2	3000 VA	180 VA					1	20 A	Show Window Receptacles Receptaculo	56
57	--	--	--			3000 VA	2100 VA			2	30 A	Hot Food Srvr (DML) GFCI (2#10,#10 N, #10G,3/4"C) Servidor de alimentos calientes	58
59	Electric Rice Cooker GFCI (2#10,#10G,3/4"C) Olla arrocera electrica	30 A	2					2288 VA	2100 VA	--	--	--	60
61	--	--	--	2288 VA	3939 VA					3	45 A	AD-1 (HACR) (3#8, #10G, 1"C)	62
63	Electric Rice Cooker GFCI (2#10,#10G,3/4"C) Olla arrocera electrica	30 A	2			2288 VA	3939 VA			--	--	--	64
65	--	--	--					2288 VA	3939 VA	--	--	--	66
67	Ice Maker - Pick-Up Window GFCI	20 A	1	1500 VA	2100 VA					2	25 A	PUW Air Curtain (2#10,#10G,3/4"C) (HACR)	68
69	Pick-Up Window Power	20 A	1			200 VA	2100 VA			--	--	--	70
71	Motorized Dampers	20 A	1					100 VA	913 VA	3	15 A	EF-1 (Hood Exhaust) (HACR)	72
73	Unisex 2 Hand Dryer (Lock-on Device)	20 A	1	1500 VA	913 VA					--	--	--	74
75	Unisex 1 Hand Dryer (Lock-on Device)	20 A	1			1500 VA	913 VA			--	--	--	76
77	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	78
79	Space (2)	--	1	--	0 VA					1	20 A	Spare	80
81	Future Upright Beverage Coolers GFCI (HACR)	20 A	1			1150 VA	0 VA			1	20 A	Spare	82
83	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	84
				Total Load:		32631 VA		32185 VA				32888 VA	
				Total Amps:		272 A		268 A				275 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Other	242 VA	100.00%	242 VA	**Total Conn. Load:**	97704 VA
Power	39528 VA	100.00%	39528 VA	**Total Est. Demand:**	87765 VA
Non-Continuous	20116 VA	100.00%	20116 VA	**Total Conn. Current:**	271 A
Kitchen Equip	15292 VA	65.00%	9940 VA	**Total Est. Demand Current:**	244 A
E	22 VA	100.00%	22 VA		
G	2020 VA	100.00%	2020 VA		

Notes:

Branch Panel: K

Location:
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 Series Rated
Mains Type: LUGS
Mains Rating: 225 A MLO

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Electric Plancha (Griddle) (3#6#10G,1-1/4"C) Plancha electrica	60 A	3	5404 VA	4673 VA					3	50 A	Electric Fryer (3#8,#10G,1"C) Freidora electrica	2
3	--	--	--			5404 VA	4673 VA			--	--	--	4
5	--	--	--					5404 VA	4673 VA	--	--	--	6
7	Electric Range (3#8,#10G,1"C) Rango electrico	50 A	3	4563 VA	4203 VA					3	50 A	Future Plancha (Griddle) (3#8,#10G,1"C)	8
9	--	--	--			4563 VA	4203 VA			--	--	--	10
11	--	--	--					4563 VA	4203 VA	--	--	--	12
13	Space	--	1	--	4203 VA					3	50 A	Future Plancha (Griddle) (3#8,#10G,1"C)	14
15	Space	--	1			--	4203 VA			--	--	--	16
17	Space	--	1					--	4203 VA	--	--	--	18
19	Space	--	1	--	--					1	--	Space	20
21	Space	--	1			--	--			1	--	Space	22
23	Space	--	1					--	--	1	--	Space	24
25	Space	--	1	--	--					1	--	Space	26
27	Space	--	1			--	--			1	--	Space	28
29	Space	--	1					--	--	1	--	Space	30
				Total Load:	23046 VA		23046 VA		23046 VA				
				Total Amps:	192 A		192 A		192 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	69138 VA
				Total Est. Demand:	48397 VA
				Total Conn. Current:	192 A
				Total Est. Demand Current:	134 A

Notes:

THE REQUIRED 3-POLE BRANCH BREAKERS FOR THE EQUIPMENT UNDER THE HOOD ARE NOT AVAILABLE WITH INTEGRAL GFCI PROTECTION SO THE PANEL K WILL COME WITH EXTERNAL EXTERIOR CLASS A GFCI DEVICES. INSTALL IN AN ACCESSIBLE LOCATION ADJACENT TO PANEL K.

(5) SHOCK BLOCK CLASS A GFCI 208V 60A, SB5060-021-0 GFCI PROTECTION FOR (1) 60A-3P & (4) 50A-3P CIRCUIT BREAKERS IN PANEL K.

SEE SHEET E-601.00 FOR PANEL 'MDP' AND COMMERCIAL LOAD SUMMARY

Panel Name: BDP
Mounting: Recessed
Enclosure: Type 1

Voltage: 120
Phases: 1
Wires: 2

Mains: Lugs
Amperage: 20

CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLES	LOAD
1	POS	15A	1	0.2kVA
2	DML POS	15A	1	0.2kVA
3	DML ORDERING SYSTEM	15A	1	0.7kVA
4	OFFICE - SECURITY SYSTEM	15A	1	0.2kVA
5	OFFICE - COMPUTER	15A	1	0.4kVA
6	OFFICE - DVR/ISP	15A	1	0.5kVA
			Total Load:	2.2kVA
			Total Amps:	18.3A

PANEL SCHEDULE GENERAL NOTES

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3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NYC ELECTRICAL CODE (NYCEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.
4. INSTALL NO MORE THAN THE EQUIVALENT OF (4) 90-DEGREE BENDS IN ANY CONDUIT RUN BETWEEN JUNCTION BOX OR PULL POINTS.
5. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND.
6. TANDEM AND HALF SPACE CIRCUIT BREAKERS WILL NOT BE ACCEPTED.
7. ALL MATERIALS SHALL BE UL LABELED.

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1510 BROADWAY
BROOKLYN, NY 11221

REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	08.16.2024	LL COMMENTS
2	10.23.2024	CONSTRUCTION SET

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Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
PANEL SCHEDULES

SHEET NUMBER:
E-600.00
6 OF 9

2024-DB#2/P#1-4

Branch Panel: MDP

Location: BOH AREA 112
Supply From: Landlord/Base Building Switchgear
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 Series Rated
Mains Type:
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	Panel A	400 A	3	32631 VA	23046 VA		3	200 A	Panel K - 200A Shunt Trip Breaker	2
3	--	--	--		32185 VA	23046 VA	--	--	--	4
5	--	--	--			32888 VA	23046 VA	--	--	--	6
7	EDH-1 (HACR) (3#2/0,#6G,2"C)	175 A	3	15996 VA	15996 VA		3	175 A	EDH-2 (HACR) (3#2/0,#6G,2"C)	8
9	--	--	--		15996 VA	15996 VA	--	--	--	10
11	--	--	--			15996 VA	15996 VA	--	--	--	12
13	ACC-1 (HACR) (3#6,#10G,1-1/4"C)	60 A	3	5404 VA	8000 VA		3	90 A	Electric Water Heater (3#3,#8G,1-1/2"C)	14
15	--	--	--		5404 VA	8000 VA	--	--	--	16
17	--	--	--			5404 VA	8000 VA	--	--	--	18
19	ACC-2 (HACR) (3#6,#10G,1-1/4"C)	60 A	3	5404 VA	0 VA		3	60 A	TVSS (4#6,#10G,1-1/4"C)	20
21	--	--	--		5404 VA	0 VA	--	--	--	22
23	--	--	--			5404 VA	0 VA	--	--	--	24
25	AHU-1 (HACR)	15 A	3	961 VA	0 VA		3	20 A	Gridpoint 3 Phase Meter (4-#12,#12G,3/4"C)	26
27	--	--	--		961 VA	0 VA	--	--	--	28
29	--	--	--			961 VA	0 VA	--	--	--	30
31	AHU-2 (HACR)	15 A	3	961 VA	180 VA		1	20 A	Gridpoint Transformer	32
33	--	--	--		961 VA	0 VA	3	20 A	Spare	34
35	--	--	--			961 VA	0 VA	--	--	--	36
37	Space	--	1	--	0 VA		--	--	--	38
39	Space	--	1		--	--	1	--	Space	40
41	Space	--	1			--	--	1	--	Space	42
		Total Load:		108579 VA	107953 VA	108656 VA				
		Total Amps:		906 A	900 A	906 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Other	242 VA	100.00%	242 VA	**Total Conn. Load:**	325188 VA
Power	197694 VA	100.00%	197694 VA	**Total Est. Demand:**	291050 VA
Non-Continuous	20116 VA	100.00%	20116 VA	**Total Conn. Current:**	903 A
Kitchen Equip	15292 VA	65.00%	9940 VA	**Total Est. Demand Current:**	808 A
E	22 VA	100.00%	22 VA		
G	2200 VA	100.00%	2200 VA		

Notes:

COMMERCIAL LOAD SUMMARY - PANEL MDP

BLDG Area: 2050 Sq. Ft. 208 VAC 3 Phase

Load Description	(VA)		Demand Factor		Demand Load	
General Lighting Load (Actual)	3021					
Interior	1821	x	100%	=		VA
Exterior	0	x	125%	=	0	VA
Signage	1200	x	100%	=	1200	VA
Minimum Lighting Load (T220.3A)	4100	x	125%	=	5125	VA
Receptacle Load	4320					
1st 10 kVA	4320	x	100%	=	4320	VA
Over 10 kVA	0	x	50%	=	0	VA
Minimum Recept Load (220.14K)	0	x	100%	=		VA
General Power Load	32146			=		
Continuous	180	x	125%	=	225	VA
Non-continuous	31966	x	100%	=	31966	VA
Motors	0	x	100%	=	0	VA
Largest Motor HP:	0	x	25%	=	0	VA
Electric Space Heating	100175	x	100%	=	100175	VA
Kitchen Equipment	124403					
1	0	x	100%	=	0	0
2	0	x	100%	=	0	0
3	0	x	90%	=	0	0
4	0	x	80%	=	0	0
5	0	x	70%	=	0	0
6 and over	124403	x	65%	=	80862	0
Non-coincident Loads	32424	x	0%	=	0	VA
HVAC Equipment	28022	x	100%	=	28022	VA
Largest HVAC Load	11817	x	25%	=	2954	VA
				Sub-Total :	254849	VA
				Total Demand Load :	255	kVA
				Minimum Service Size :	707	Amps

PANEL SCHEDULE GENERAL NOTES

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Consultant:

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BROOKLYN, NY 11221

REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

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NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
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CHECKED BY: AJS

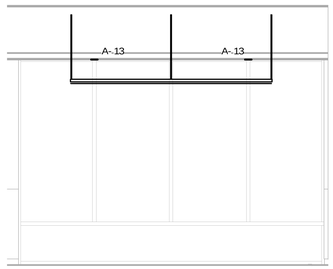
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SHEET TITLE:
PANEL SCHEDULES

SHEET NUMBER:
E-601.00
7 OF 9

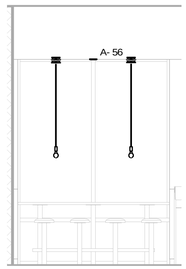
2024-DB#2/P#1-4

NOTE: SHOW WINDOW RECEPTACLES TO BE MOUNTED TO SOFFIT CEILING ABOVE WINDOW, INLINE WITH MULLIONS.

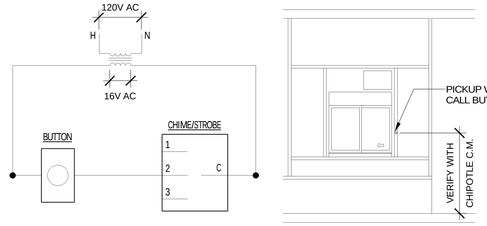


1 DINING ROOM ELECTRICAL ELEVATION
1/4" = 1'-0"

NOTE: SHOW WINDOW RECEPTACLES TO BE MOUNTED TO SOFFIT CEILING ABOVE WINDOW, INLINE WITH MULLIONS.

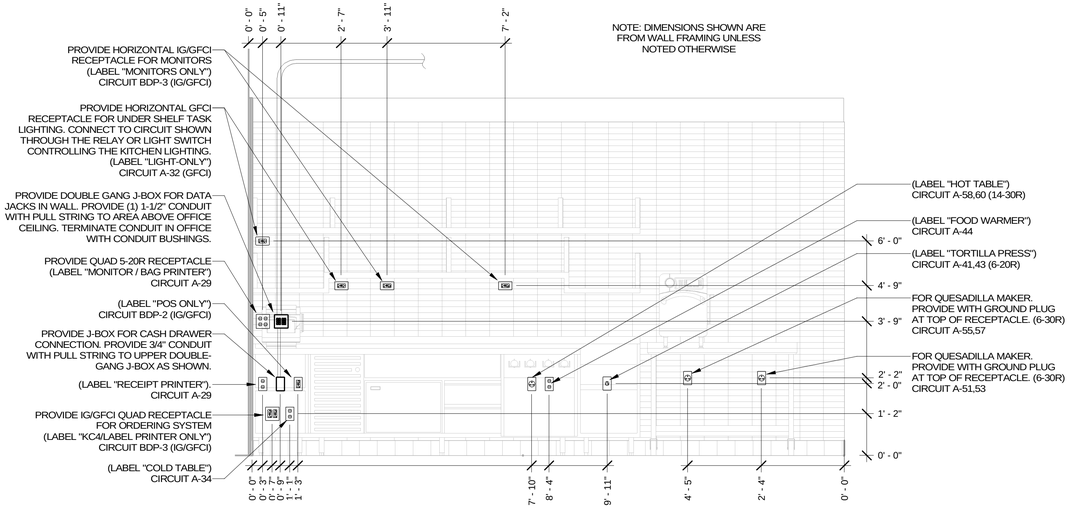


2 DINING ROOM ELECTRICAL ELEVATION 2
1/4" = 1'-0"

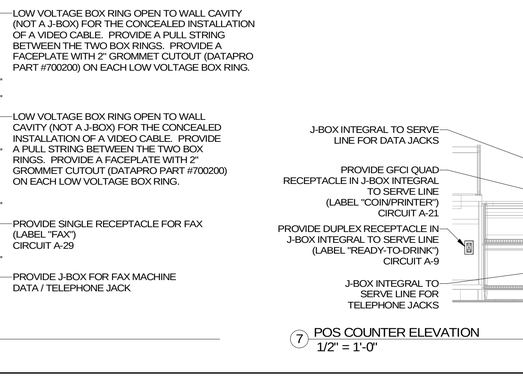


NOTES:
A. VERIFY PIN DESIGNATIONS WITH EQUIPMENT PRIOR TO WIRING.
B. PROVIDE COMMERCIAL DOORBELL BUTTON COMPATIBLE WITH MOUNTING LOCATION. PREFERRED LOCATION IS MOUNTED ON THE EXTERIOR SIDE OF THE FRAME OF THE PICK-UP WINDOW, ON THE SIDE THAT SLIDES OPEN. CONFIRM WITH CHIPOTLE C.M..
C. PROVIDE ONE (1) 30VA 16VAC TRANSFORMER.
D. PROVIDE POWER FROM THE SAME CIRCUIT AS THE PICKUP WINDOW CIRCUIT.
E. PROVIDE ONE (1) BLUE CHIME/STROBE WITH WALL-MOUNT BASE (FEDERAL SIGNAL SLM500B WITH SLMBW-012-024) LOCATED ON INTERIOR SIDE OF PICKUP WINDOW WALL. COORDINATE LOCATION WITH OTHER WALL-MOUNTED DEVICES SHOWN IN DETAIL 6/E-710 AND VERIFY WITH CHIPOTLE C.M..
F. INSTALL THE TRANSFORMER IN AN ACCESSIBLE LOCATION CONCEALED FROM VIEW ABOVE THE CEILING. INSTALL BUTTON OUTSIDE PICKUP WINDOW AS SHOWN ON PLAN. CONNECT TRANSFORMER TO BUTTON AND CHIME/STROBE AS SHOWN.
G. ONCE INSTALLATION IS COMPLETE PROGRAM THE CHIME/STROBE AS SHOWN BELOW.
   a. SWITCH A: CHIME 1 REPEATING (10111)
   b. SWITCH B: CHIME 2 REPEATING (10111)

9 ELEC - WALK UP PICK-UP WINDOW NOTIFICATION DETAIL
1/4" = 1'-0"

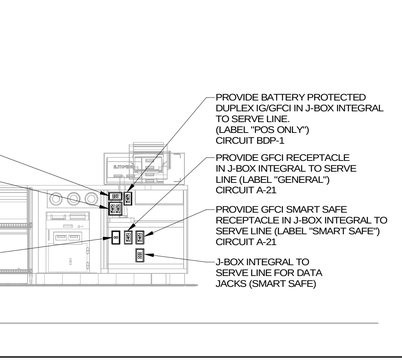


5 DML ELEVATION
1/2" = 1'-0"



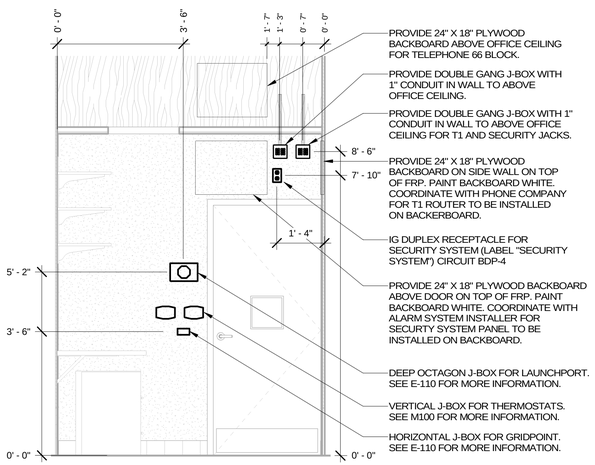
CO2 ALARM OPTIONS	
X	CO2 DETECTOR
X	CO2 REMOTE DISPLAY UNIT
X	REMOTE STROBE
	RELAY

3 CO2 AREA ALARM DETAIL
1/2" = 1'-0"



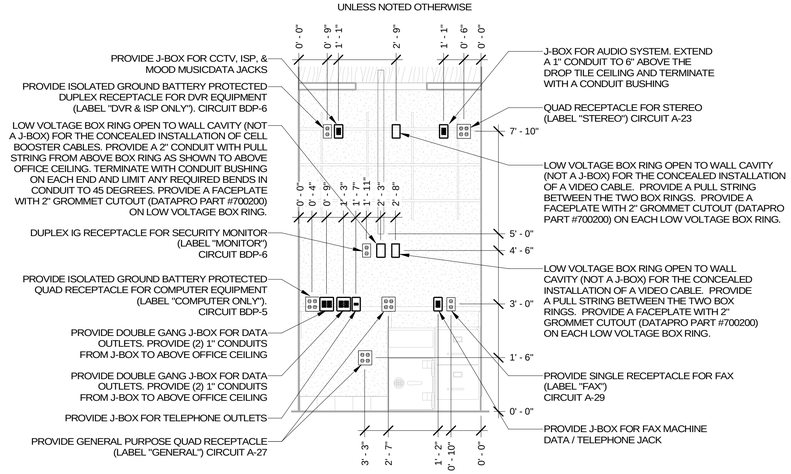
8 CO2 REMOTE DISPLAY DETAIL
1/2" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE FROM WALL FRAMING UNLESS NOTED OTHERWISE



4 OFFICE DOOR ELEVATION
1/2" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE FROM WALL FRAMING UNLESS NOTED OTHERWISE



6 OFFICE DESK ELEVATION
1/2" = 1'-0"

7 POS COUNTER ELEVATION
1/2" = 1'-0"

2024-DB#2/P#1-4

Consultant:

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"BEDFORD STUYVESANT"
1510 BROADWAY
BROOKLYN, NY 11221

REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

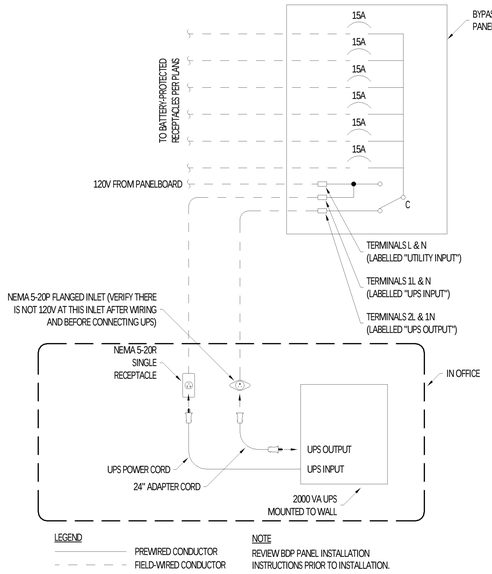
Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

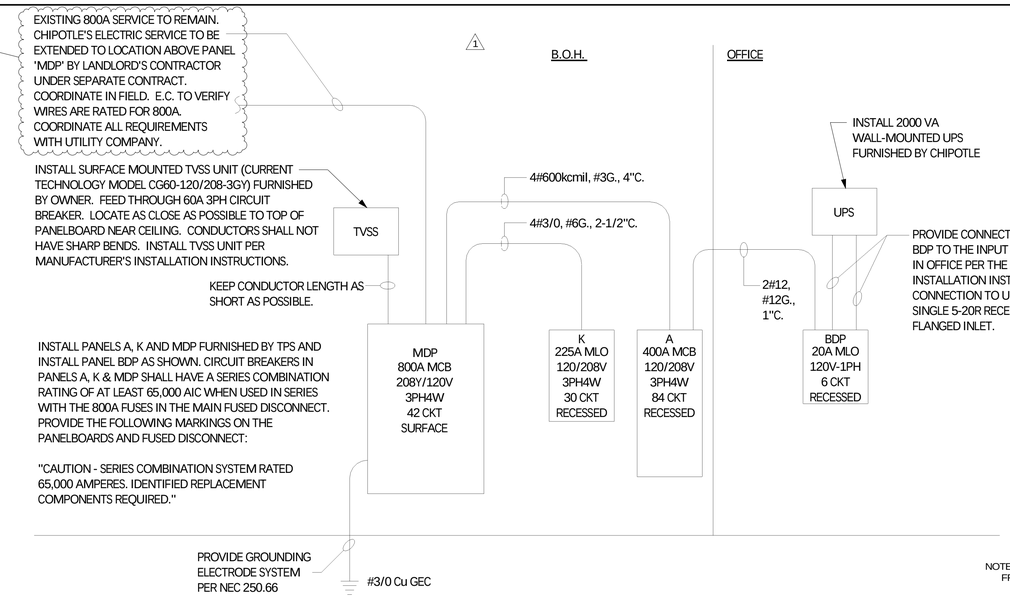
PROJECT NUMBER:
22151

SHEET TITLE:
ELECTRICAL INTERIOR ELEVATIONS

SHEET NUMBER:
E-700.00
8 OF 9



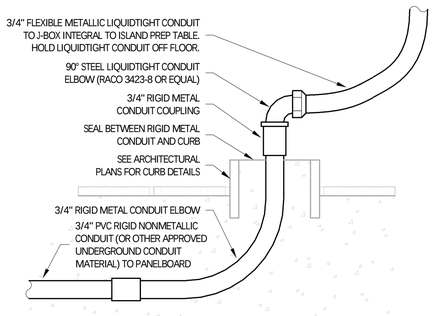
1 BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
NOT TO SCALE



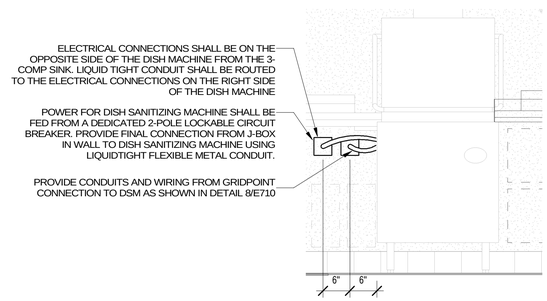
2 MAIN DISTRIBUTION DIAGRAM
NOT TO SCALE

MAIN DISTRIBUTION DIAGRAM GENERAL NOTES

1. GROUNDING IS CRITICAL AND MUST BE IN STRICT ACCORDANCE WITH THESE DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS. DO NOT DEVIATE WITHOUT WRITTEN AUTHORIZATION.
2. ALL EQUIPMENT AND EQUIPMENT ENCLOSURES SHALL BE PROPERLY BONDED AND GROUNDED PER NYCEC ARTICLE 250.
3. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NYC ELECTRICAL CODE (NYCEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.
4. ALL CIRCUITS TO BE RUN WITH COPPER WIRE. ALUMINUM OR COPPER CLAD WIRE WILL NOT BE ACCEPTED. CONDUIT IS NOT ACCEPTABLE AS A GROUND.
5. ALL MATERIALS SHALL BE UL LABELED.

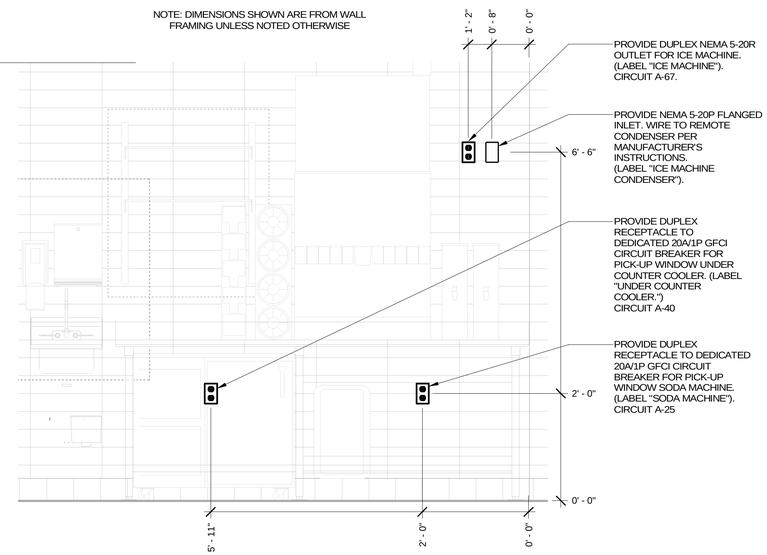


3 PEDESTAL OUTLET DETAIL
NOT TO SCALE

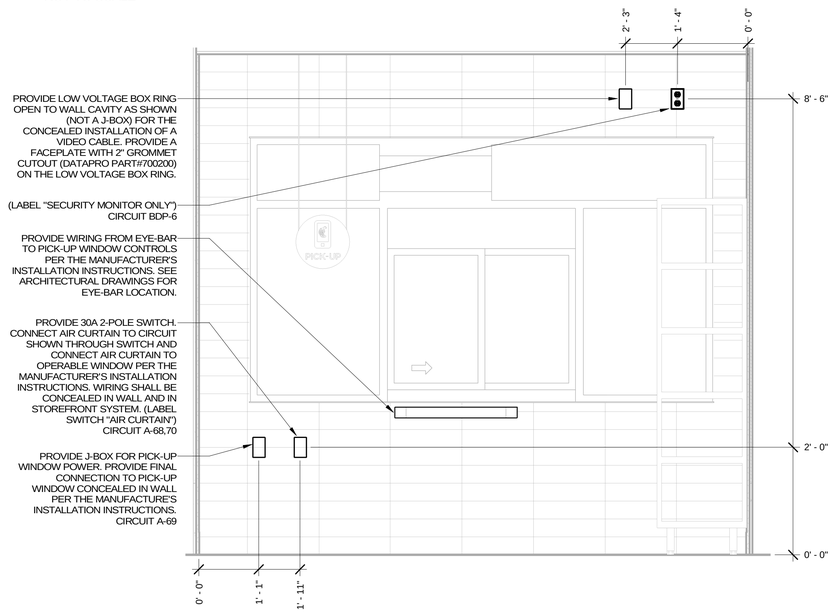


4 DISH SANITIZING MACHINE ELECTRICAL DETAIL
3/4" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE FROM WALL FRAMING UNLESS NOTED OTHERWISE



5 COLD SML ELECTRICAL ELEVATION
3/4" = 1'-0"

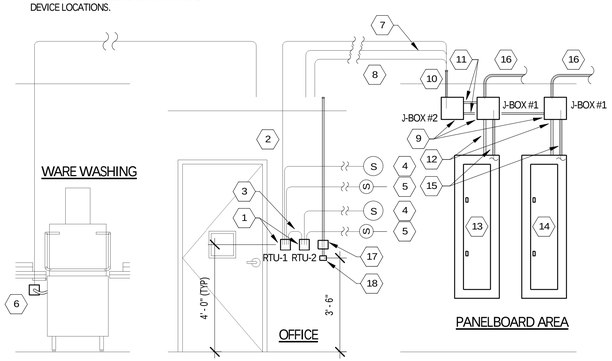


6 PICK-UP WINDOW ELEVATION
3/4" = 1'-0"

GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CAT5E CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CAT5E CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CAT5 CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

NOTE:
ARRANGEMENT SHOWN IS DIAGRAMMATIC - SEE PLANS FOR ACTUAL DEVICE LOCATIONS.



8 ELEC-GRIDPOINT WIRING DIAGRAM
NOT TO SCALE

2024-DB#2/P#1-4

Consultant:
Polaris Consulting Engineers, PC
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Moorestown, NJ 08057
(856) 778-5400

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"BEDFORD STUYVESANT"
1510 BROADWAY
BROOKLYN, NY 11221

REV.	DATE	DESCRIPTION
	2024.04.23	LLD REVIEW SET
	04.29.2024	PERMIT SET
	05.02.2024	BID SET
1	05.07.2024	ADDENDUM 1
2	10.23.2024	CONSTRUCTION SET

PROFESSIONAL SEAL

Michael L. Wilson, P.E.
NY License #073765-1

PROFESSIONAL IN CHARGE: Michael L. Wilson, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
22151

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E-710.00
9 OF 9

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2020 New York City Energy Conservation Code
Project Title: 22151_Chipotle_Broadway, Bedstuy_NY
Project Type: New Construction

Construction Site:
1510 BROADWAY
BROOKLYN, New York 11221

Owner/Agent:
New Jersey

Designer/Contractor:
MICHAEL WILSON
POLARIS CONSULTING ENGINEERS
214 WEST MAIN STREET
MOORESTOWN, New Jersey 08057
856-778-5400

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Entire space (Dining: Cafeteria/Fast Food)	2611	0.66	1723
		Total Allowed Watts =	1723

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Entire space (Dining: Cafeteria/Fast Food)				
LED: A1: 2x2: Other:	1	10	30	300
LED: B1: RECESSED CAN: Other:	1	8	17	136
LED: B2: RECESSED CAN: Other:	1	32	17	544
LED: B3: RECESSED CAN: Other:	1	2	12	24
LED: C1: 2' LINEAR: Other:	1	1	9	9
LED: C2: 3' LINEAR: Other:	1	12	12	144
LED: C3: 4' LINEAR: Other:	1	15	15	225
LED: H1: HOOD LIGHT: Other: Exemption:Lighting integral to equipment	1	6	15	Exempt
LED: J4: DECORATIVE PENDANT: Other:	1	2	9	18
LED: P3: SPOT LIGHT: Other:	1	3	20	60
LED: P5: PENDANT: Other:	1	2	5	10
LED: P6: DECORATIVE DINING PENDANT: Other:	1	2	30	60
LED: W1: WIC LIGHT: Other: Exemption:Lighting integral to equipment	1	4	29	Exempt
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
Track Lighting: Wattage based on current limiting device capacity	0	0	60	60
			Total Proposed Watts =	1710

Interior Lighting PASSES: Design 1% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 New York City Energy Conservation Code requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2020 New York City Energy Conservation Code
Project Title: 22151_Chipotle_Broadway, Bedstuy_NY
Location: New York, New York
Climate Zone: 4a
Project Type: New Construction

Construction Site:
1510 BROADWAY
BROOKLYN, New York 11221

Owner/Agent:
New Jersey

Designer/Contractor:
MICHAEL WILSON
POLARIS CONSULTING ENGINEERS
214 WEST MAIN STREET
MOORESTOWN, New Jersey 08057
856-778-5400

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

1 AHU / ACC-1 (Unknown):
Cooling: 1 each - Split System, Capacity = 117 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.20 EER, Required Efficiency = 11.20 EER
Proposed Part Load Efficiency = 15.50 IEER, Required Part Load Efficiency = 12.90 IEER

1 AHU / ACC-2 (Unknown):
Cooling: 1 each - Split System, Capacity = 117 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.20 EER, Required Efficiency = 11.20 EER
Proposed Part Load Efficiency = 15.50 IEER, Required Part Load Efficiency = 12.90 IEER

1 EDH-1 (Unknown):
Heating: 1 each - Duct Furnace, Electric, Capacity = 163 kBtu/h
No minimum efficiency requirement applies

1 EDH-2 (Unknown):
Heating: 1 each - Duct Furnace, Electric, Capacity = 163 kBtu/h
No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2020 New York City Energy Conservation Code requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

ENERGY COMPLIANCE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH CHAPTER C4 OF THE 2020 NYCECC

Consultant:
Polaris Consulting Engineers, PC
214 W. Main Street, Suite 208
Moorestown, NJ 08057
(856) 778-5400

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1	08.16.2024	LL COMMENTS
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ENERGY COMPLIANCE FORMS

SHEET NUMBER:
EN-100.00
1 OF 1

DOB NOW Filing #: B01050687-S1

2024-DB#2/P#1-4