ABBREVIATION LEGEND

℄	CENTERLINE
(E)	EXISTING
(N)	NEW
@	AT
Ø	DIAMETER OR ROUND
ADD'L	ADDITIONAL
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ARCH	ARCHITECTUR(URAL)
AS	ART AND CHAIR SUPPLIER
ASS	ALARM SYSTEM SUPPLIER
B.O.	BOTTOM OF
BD.	BOARD
BLDG.	BUILDING
CLG	CEILING
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CS	CHEMICAL SUPPLIER
DIM	DIMENSION(S)
DM	DESIGN MANAGER
EA	EACH
EL	ELEVATION (VERTICAL HEIGHT)
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EQ	EQUAL
EXT	EXTERIOR
FRP	FIBERGLASS-REINFORCED PANEL
FRT	FIRE-RETARDANT TREATED
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP	GYPSUM
H.P.	HIGH POINT
HS	HOOD SUPPLIER
HVAC	HEATING AND VENTILATING
INT	INTERIOR
KES	KITCHEN EQUIPMENT SUPPLIER
MAX.	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN.	MINIMUM
MISC	MISCELLANEOUS
MSS	MUSIC SYSTEM SUPPLIER
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
O.C.	ON CENTER
OSB	ORIENTED STRAND BOARD
PAF	POWDER ACTUATED FASTENER
POS	POINT OF SALE
PREP	PREPARATION
PVC	POLYVINYL CHLORIDE
R	RADIUS
RTU	ROOF TOP UNITS
SG	SWEETGREEN
SIM	SIMILAR
SS	SOLID SURFACE
SSS	CCTV AND SAFE/CASHBOX
SST	STAINLESS STEEL
STR	STRUCTURE
T	TENANT
T.B.D.	TO BE DETERMINED
T.O.	TOP OF
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENUBOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGNAGE VENDOR
TYP	TYPICAL
UPS	UNINTERRUPTED POWER SUPPLY
U.N.O.	UNLESS NOTED OTHERWISE
VD	VENDOR
V.I.F.	VERIFY IN FIELD
VAR	VARIES
W/	WITH
WA	WASHROOM ACCESSORIES
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WS	TENANT'S WINDOW SHADE SUPPLIER

PROJECT CONTACTS

LANDLORD
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SENIOR VICE PRESIDENT COMMERCIAL & MIXED USE
CROSLAND SOUTHEAST
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RICK BRANHAM, PROJECT MANAGER
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93 INDUSTRY DR
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KITCHEN VENDOR
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SINGER EVI
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GLENELG, MD 21737
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T: 443.845.7627

ZONING DEPARTMENT
CITY OF CHARLOTTE
CHARLOTTE-MECKLENBURG
GOVERNMENT CENTER
600 E. FOURTH ST.
EIGHTH FLOOR
CHARLOTTE, N.C. 28202
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ARCHITECT OF RECORD
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PM: KATHRYN GROTHEER
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MECKLENBURG COUNTY CODE ENFORCEMENT
LAND USE & ENVIRONMENTAL SERVICES AGENCY
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
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T:704.336.3837

HEALTH DEPARTMENT
NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES (MONIQUE TALTON)
ENVIRONMENTAL HEALTH SECTION
5605 SIX FORKS ROAD
RALEIGH, NC 27609
T: 919.707.5863
E:NCPLANREVIEW@DHHS.NC.GOV

TENANT LICENSING
3102 WEST 36TH STREET
LOS ANGELES, CA 90018
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DEREK VAN RIPER
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3253 E. IMPERIAL HWY
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T: 714.983.0505

WATER UTILITY
CITY OF CHARLOTTE – GENERAL LINE ENGINEERING, ADMINISTRATION, AND CUSTOMER SERVICE:
5100 BROOKSHIRE BLVD.
CHARLOTTE, NC 28216
T: 704.336.7600

SEWER UTILITY
CITY OF CHARLOTTE – GENERAL LINE ENGINEERING, ADMINISTRATION, AND CUSTOMER SERVICE:
5100 BROOKSHIRE BLVD.
CHARLOTTE, NC 28216
T: 704.336.7600

GAS UTILITY
PIEDMONT NATURAL GAS
525 S TRYON ST.
CHARLOTTE, NC 28202
T: 800.752.7504, 877-279-3636

ELECTRIC UTILITY
DUKE ENERGY
P.O. BOX 70516
CHARLOTTE, NC 28272
T: 800.777.9898

TELEPHONE UTILITY
To inquire about service availability:
Spectrum (800) 892-4357
ATT (800) 288-2020

CODE AUTHORITIES

BUILDING CODE:	2018 NORTH CAROLINA BUILDING CODE
ACCESSIBILITY CODE:	2018 NORTH CAROLINA BUILDING CODE (BASED ON THE 2015 IBC) – 2009 ANSI A117.1
FIRE CODE:	2018 NORTH CAROLINA BUILDING CODE: FIRE PREVENTION CODE
MECHANICAL CODE:	2018 NORTH CAROLINA MECHANICAL CODE
PLUMBING CODE:	2018 NORTH CAROLINA PLUMBING CODE
ELECTRICAL CODE:	THE 2024 NORTH CAROLINA ELECTRICAL CODE IS BASED ON THE 2023 NEC (NFPA 70) AND INCLUDES PROPOSED NORTH CAROLINA AMENDMENTS
ENERGY CODE:	2015 IECC AND ASHRAE 90.1-2013 WITH AMENDMENTS
HEALTH CODE	15A NCAC 18A. 2600

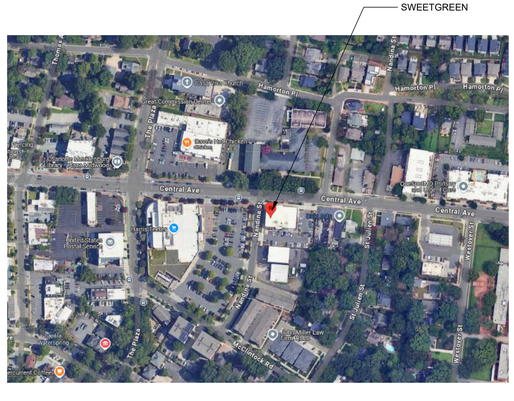
DEFERRED SUBMITTALS

- FIRE ALARM BY GENERAL CONTRACTOR
- FIRE SPRINKLER BY GENERAL CONTRACTOR
- EXTERIOR SIGNAGE BY OWNER SIGNAGE VENDOR

SYMBOL LEGEND

- LEVEL TAG (XXXX / EL. = ± XX'-X")
- BUILDING ELEVATION (XX / XXXX)
- INTERIOR ELEVATION (XX / XX XXXX XX / XX)
- SECTION MARKER (1 / XXXX)
- SECTION / DETAIL (1 / XXXX)
- LAYOUT POINT
- KEY NOTE TAG (0)
- WALL TYPE TAG (XXX-X)
- DOOR TAG (XX)
- DATA DEVICE TAG (DXXX)
- KITCHEN EQUIPMENT TAG (K XXX)
- FURNITURE TAG (F XXX)
- ART/GRAPHICS TAG (G XXX)
- WASHROOM ACCESSORIES TAG (X)
- ROOM TAG (ROOM / XXX)
- FINISH TAG (XX)
- AREA TAG (Area Name / 150 SF)
- REVISION TAG (1)
- OCCUPANT LOAD (XX)

TRUE NORTH / PLAN NORTH — XX View Title — 1/4" = 1'-0"


SWEETGREEN
Hamilton Pl
Central Ave
Broadway St
Main St
Ruth St
Stratford Rd
Dilworth Rd
Dilworth Rd E
Harding Pl
Kenilworth Ave
Queens Rd
Queens Rd W
Queens Rd E
Myrtle Ave
Providence Rd
Providence Rd W
Selwyn Ave
Selwyn Ave Ext
Elizabeth Ave
Elizabeth Ave Ext
Charlotte Country Club
Myers Park Country Club
Myers Park
Dilworth Park
Latta Park
Marshall Park
Freedom Park
Freedom Park Golf Course
Dilworth Elementary School
Myers Park Elementary School
Myers Park Baptist Church
Miller Law Firm
Starbucks
Starbucks Coffee
Starbucks Coffee
Starbucks Coffee

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS - SWEETGREEN PLAZA MIDWOOD

PROJECT INFORMATION

Name of Project: SWEETGREEN PLAZA MIDWOOD
Address: 1710 COMMONWEALTH AVE, SUITE 123, CHARLOTTE, NC — Zip Code: 28205
Owner/Authorized Agent: JONATHAN NEMAN — Phone # (213) 838 - 1668 — E-Mail: LICENSING@SWEETGREEN.COM
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☒ City: CHARLOTTE ☒ County: MECKLENBURG ☐ State

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

CONTACT

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	BERGMEYER ASSOCIATES, INC.	MATTHEW HYATT	14842	(617) 542-1025	MHYATT@BERGMEYER.COM
Civil	N/A			( )	
Electrical	WOLF ENGINEERING LLC	ERIC MICHAEL WOLF	#1016	(256) 310-7642	ERIC@WOLFENGINEERING.CO
Fire Alarm	N/A			( )	
Plumbing	WOLF ENGINEERING LLC	ERIC MICHAEL WOLF	#1016	(256) 310-7642	ERIC@WOLFENGINEERING.CO
Mechanical	WOLF ENGINEERING LLC	CTEC MICHAEL WOLF	#1016	(256) 310-7642	ERIC@WOLFENGINEERING.CO
Sprinkler Standpipe				( )	
Structural	BRANDON A JOHNSTON	KIM CARAVAJALDO	2181	(213) 596-8557	KCARAVAJALDO@JSE.COM
Retaining Walls >5' High	N/A			( )	
Other				( )	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

CODE DATA

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☐ Renovation
☒ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) 2024-2025 — **CURRENT OCCUPANCY(S)** (Ch. 3): A-2
RENOVATED: (date) — **PROPOSED OCCUPANCY(S)** (Ch. 3): A-2
RISK CATEGORY (Table 1604.5): **Current:** ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☒ I-B ☐ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ☒ Yes ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No ☒ Yes Class ☒ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes **Flood Hazard Area:** ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ.FT.)	NEW (SQ.FT.)	SUBTOTAL
LEVEL B2	40,147	N/A	
LEVEL B1	42,279	N/A	
LEVEL 1	27,302	N/A	
LEVEL 2	26,676	N/A	
LEVEL 3	27,451	N/A	
LEVEL 4	27,376	N/A	
LEVEL 5	26,644	N/A	
LEVEL 6	26,644	N/A	
LEVEL 7	8,268	N/A	
TOTAL	252,787	N/A	

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☒
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☒ S-2 Low ☐ High-piled
☒ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): A-3
Incidental Uses (Table 509): ____
Special Uses (Chapter 4 – List Code Sections): 403
Special Provisions: (Chapter 5 – List Code Sections): ____
Mixed Occupancy: ☐ No ☒ Yes Separation: 1 Hr. Exception: ____

☒ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations. In each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$\frac{\quad}{\quad} + \cdots = \quad \leq 1.00$$

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

Story No.	(A) Story Ref.	(A) Bldg Area per Story (Actual)	(B) Table 506.2* Area	(C) Area for Frontage Increase[1]	(D) Allowable Area per Story or Unlimited[2]
LEVELS B2	S-2	40,699	237,000	49,059	
LEVELS B1	S-2	38,322	237,000	49,059	
LEVEL 1	A-3	14,414	UL		
	S-2	7,377	237,000	49,059	
LEVEL 2	B	23,233	UL		
LEVEL 3	B	24,716	UL		
LEVELS 4	B	24,199	UL		
LEVELS 5	B	24,170	UL		
LEVELS 6	B	24,169	UL		
LEVEL 7/ROOF	A-3	4,446	UL		
	S-2	1,057	237,000	49,059	

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 394 (F)
b. Total Building Perimeter = 705 (P)
c. Ratio (F/P) = 0.56048 (F/P)
d. W = Minimum width of public way = 20 (W)
e. Percentage of frontage increase I = 100 (F/P - 0.25) x W/30 = 20.7% (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
* The maximum area of open parking garages must comply with Table 406.5.4.
[1] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	Allowable	Shown on Plans	Code Reference[1]
Building Height in Feet (Table 504.3)[2]	180	122'-0"	TABLE 504.3
Building Height in Stories (Table 504.4)[3]	7	7	TABLE 504.4

[1] Provide code reference if the "Shown on Plans" value exceeds the allowable value per Table 504.3 or 504.4
[2] The maximum height of air traffic control towers shall be permitted to comply with Table 412.3.1.
[3] The maximum height of open parking garages shall comply with Table 406.5.4.

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		1	1	G6.03	V600/ Y615 +Y616/ X790/ X829		
Bearing Walls						NOTE: RATED PENETRATION DETAILS LOCATED ON E0.03 AND P7.05	
Exterior							
North	10'-<'<30'	1	1	G6.03	V600/ Y615 +Y616/ X790/ X829		
East	>30'	1	1	G6.03	V600/ Y615 +Y616/ X790/ X829		
West	>30'	1	1	G6.03	V600/ Y615 +Y616/ X790/ X829		
South	10'-<'<30'	1	1	G6.03	V600/ Y615 +Y616/ X790/ X829		
Interior		1	N/A				
Nonbearing Walls and Partitions							
Exterior walls							
North	10'-<'<30'	1	1	NCBC 722.2.1	(2)		
East	>30'	0	0				
West	>30'	0	0				
South	10'-<'<30'	1	1	NCBC 722.2.1	(2)		
Interior walls and partitions		0	0				
Floor Construction Including supporting beams and joists		1	1	G6.01 G6.04	V634/ N759/ N823		
Floor Ceiling Assembly		1	1	G6.01 G6.04	V634/ N759/ N823		
Columns Supporting Floors		1	1	G6.03	V600/ Y615 +Y616/ X790/ X829		
Roof Construction, including supporting beams and joists		1	1	G6.01 G6.04	V634/ N759/ N823 ON LOWER ROOF		
Roof Ceiling Assembly		1	1	G6.01 G6.04	V634/ N759/ N823 ON LOWER ROOF		
Columns Supporting Roof		1	1	G6.03	V600/ Y615 +Y616/ X790/ X829		
Shaft Enclosures - Exit	2	2	2	G6.01 G6.02	V634/ N759/ N823 ON UPPER LEVELS; V807/ U456 ON LOWER LEVELS; NCBC TABLE 722.1.1 FOR B/1/ B2/ LVL3		
Shaft Enclosures - Other	2	2	2	G6.01 G6.02	V634/ N759/ N823 ON UPPER LEVELS; V807/ U456 ON LOWER LEVELS; NCBC TABLE 722.1.1 FOR B/1/ B2/ LVL3		
Corridor Separation		0	0				
Occupancy/Fire Barrier Separation		N/A	N/A				
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		1					

* Indicate section number permitting reduction

NOTE: SFRM AND IFRM UL ASSEMBLIES TO BE SOURCED FROM SAME MANUFACTURER. SEE SHEET G6.01 TRHOUGH G6.05

NOTE: RATED WALL INTERSECTION DETAILS ON SHEET A6.06

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
NORTH (15'-0")	UNPROTECTED, SPRINKLERED	75%	61.4% SEE LS1.20
WEST (>30'-0"/ <15'-0")	UNPROTECTED, SPRINKLERED	NO LIMIT/ 45%	44.6% SEE LS1.20
SOUTH (<20'-0"/ >30'-0")	UNPROTECTED, SPRINKLERED	75%/ NO LIMIT	49% SEE LS1.20
EAST (>30'-0")	UNPROTECTED, SPRINKLERED	NO LIMIT	N/A

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☐ No ☐ Yes ☒ Partial DUCT-MOUNTED
Carbon Monoxide Detection: ☐ No ☒ Yes

LIFE SAFETY SYSTEM REQUIREMENTS

Life Safety Plan Sheet #: G-200

☒ Fire and/or smoke rated wall locations (Chapter 7)
☒ Assumed and real property line locations (if not on the site plan)
☒ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit access travel distances (1017)
☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☒ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☒ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☒ Location of doors with panic hardware (1010.1.10) DOOR HARDWARE SCHEDULED ON A-400
☒ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☒ Location of doors with electromagnetic egress locks (1010.1.9.9)
☒ Location of doors equipped with hold-open devices
☒ Location of emergency escape windows (1030)
☒ The square footage of each fire area (202)
☒ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☒ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
				N/A			

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR WITH 5' ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED VAN SPACES WITH 8' ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED VAN SPACES WITH 5' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
TOTAL:						

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NEW	N/A	N/A	2	N/A	N/A	N/A	2	N/A	N/A	N/A
	REQ'D	N/A	N/A	2	N/A	N/A	N/A	2	N/A	N/A	N/A

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

N/A

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☒ Yes (The remainder of this section is not applicable)
Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference): ____
Climate Zone: ☒ 3A ☐ 4A ☐ 5A
Method of Compliance: Energy Code ☒ Performance ☐ Prescriptive
ASHRAE 90.1 ☒ Performance ☐ Prescriptive
(If "Other" specify source here) ____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: RIGID INSULATION OVER COVERBOARD OVER CONCRETE AND METAL DECKING
U-Value of total assembly: ____
R-Value of insulation: R-25
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)
Description of assembly: 6" METAL STUDS WITH BATT INSULATION AND EXTERIOR SHEATHING
U-Value of total assembly: ____
R-Value of insulation: R-19
Openings (windows or doors with framing)
U-Value of assembly: 0.29
Solar heat gain coefficient: 0.23
projection factor: ____
Door U-Value: ____

NOTE: CLOSED CELL SPRAY FOAM INSULATION AT UNDERSIDE OF FLOOR SLAB COMPLYING WITH NCSBC 2018 SECTION 2603.7 SPRAY EXPOSED SIDE WITH INTUMESCENT COATING COMPLYING WITH NCSBC 2018 SECTION 2603.4 AND NFPA 275

Walls below Grade (each assembly)
Description of assembly: CAST IN PLACE CONCRETE WALLS
U-Value of total assembly: ____
R-Value of insulation: ____

Floors over unconditioned space (each assembly)
Description of assembly: SPRAY INSULATION UNDER CONCRETE SLAB
U-Value of total assembly: ____
R-Value of insulation: R-17 @ LEVEL 1 SLAB & R-33 @ LEVEL 2 SLAB

Floors slab on grade
Description of assembly: ____
U-Value of total assembly: ____
R-Value of insulation: ____
Horizontal/vertical requirement: ____
slab heated: ____

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Snow (I_s) ____ Seismic (I_E) ____

Live Loads: Roof ____ psf
Mezzanine ____ psf
Floor ____ psf

Ground Snow Load: ____ psf

Wind Load: Ultimate Wind Speed ____ mph (ASCE-7)
Exposure Category ____

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☐ II ☐ III
Spectral Response Acceleration S_S: ____ %g S_1: ____ %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system ☐ Bearing Wall ☐ Dual w/Special Moment Frame
☒ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) ____ psf
Presumptive Bearing capacity ____ psf
Pile size, type, and capacity ____

EXISTING / UNDER SEPARATE PERMIT - NO CHANGES PROPOSED

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 18F
summer dry bulb: 94F

Interior design conditions
winter dry bulb: 68F
summer dry bulb: 73F
relative humidity: 45-55%

Building heating load: APPROX. 120 MBH

Building cooling load: APPROX. 150 MBH

Mechanical Spacing Conditioning System
Unitary — HEAT PUMP SPLIT SYSTEMS

	AHU-1/HP-1	AHU-2/HP-2	AHU-3/HP-3	AHU-4/HP-4
description of unit:				
heating efficiency:	8.2 HSPF2	8.5 HSPF2	8.5 HSPF2	8.5 HSPF2
cooling efficiency:	16 SEER2	16 SEER2	16 SEER2	16 SEER2
size category of unit:	2-TON	4-TON	4-TON	4-TON

Boiler
Size category. If oversized, state reason.: N/A
Chiller
Size category. If oversized, state reason.: N/A

List equipment efficiencies: SEE ABOVE.

ELECTRICAL DESIGN

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☒ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

***SEE SHEET E-300 ELECTRICAL SCHEDULE FOR LIGHTING FIXTURE SCHEDULE.

Additional Efficiency Package Options N/A
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

sg

sweetgreen
3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

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ARCHITECT OF RECORD:

Bergmeyer

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617.542.1025	380.900.8887	213.337.1090

STAMP:

07/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	MN/SL/SN
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	12.20.2022

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

APPENDIX B

G-002

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ACCESSIBILITY NOTES

ACCESSIBILITY & USABILITY FOR THE PHYSICAL HANDICAPPED SHALL BE PROVIDED IN PUBLIC AREAS. THE PROVISIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI A 117.1) 2009 AND TITLE III OF THE 2010 AMERICANS WITH DISABILITIES ACT AS REQUIRED BY THE CODE, SHOWN GRAPHICALLY ON THIS SHEET AND IN NOTES BELOW.

TENANT IS RESPONSIBLE FOR ALL SITE VERIFICATIONS.

TENANT'S LEASED PREMISES MUST COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA). COMPLIANCE WILL INCLUDE, BUT NOT BE LIMITED TO, THE DESIGN, CONSTRUCTION AND / OR ALTERATION OF THE LEASED PREMISES.

DOORS AND HARDWARE:

1. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE OF EFFORT. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
2. ALL ENTRANCES AND EXIT DOORS TO BUILDING SHALL BE MADE ACCESSIBLE TO THE DISABLED. WHERE BUILDING CODE PERMITS, PROVIDE SIGNAGE TO ACCESSIBLE ENTRY/EXIT IF ALL LOCATIONS ARE NOT ACCESSIBLE.
3. EVERY REQUIRED EXIT DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THEN 6"-8" IN HEIGHT. WHEN INSTALLED IN EXIT DOORWAYS, EXIT DOORS SHALL BE CAPABLE OF OPERATING AT LEAST 90 DEGREES AND SHALL BE MOUNTED SO THAT THE CLEAR WIDTH OF THE EXITWAY IS NOT LESS THAN 32".
4. PER ADA SECTION 404.2, MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPENERS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. DOOR CLOSERS TO BE SET TO TAKE AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 70 DEGREES TO WITHIN 3" OF THE LATCH. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFOR TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
5. THE BOTTOM 10" OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING, SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, 1" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
6. THRESHOLDS SHALL NOT EXCEED 1/2" IN HIEGHT.
7. THE FLOOR OR LANDING ON EACH SIDE OF AN EXIT DOOR SHALL BE LEVEL. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND A LENGTH OPPOSITE THE DIRECTION OF THE DOOR SWING OF 44"-48" IN LENGTH, DEPENDENT UPON DIRECTION OF APPROACH AND EXISTENCE OF LATCH AND CLOSER.
8. THE SPACE BETWEEN TWO CONSECTUIVE DOOR OPENINGS IN A VESTIBULE, SERVING OTHER THAN A REQUIRED EXIT STAIRWAY, SHALL PROVIDE A MINIMUM OF 48" OF CLEAR SPACE FROM ANY DOOR OPENING INTO SUCH VESTIBULE WHEN THE DOOR IS POSITIONED TO AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. DOORS IN A SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.

SIGNS AND IDENTIFICATIONS:

1. 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 AND1:10, UTILIZING AN UPPERCASE "I" FOR MEASUREMENT. (703.2)
2. CHARACTERS, SYMBOLS, OR PICTOGRAPHS ON TACTILE SIGNS SHALL BE RAISED 1/32" (0,8 MM) MINIMUM. RAISED LETTERS AND NUMBERS SHALL BE SANS SERIF UPPERCASE CHARACTERS. RAISED CHARACTERS OR SYMBOLS SHALL BE AT LEAST 5/8" (16 MM) HIGH, BUT NO HIGHER THAN A NOMINAL 2" (51 MM). (703.3)

AUDIBLE ALARMS:

1. AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A SOUND THAT EXCEEDS THE PREVAILING EQUIVALENT SOUND LEVEL IN THE ROOM OR SPACE BY AT LEAST 15 DECIBELS OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 30 SECONDS BY 5 DECIBELS, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 DECIBALS.

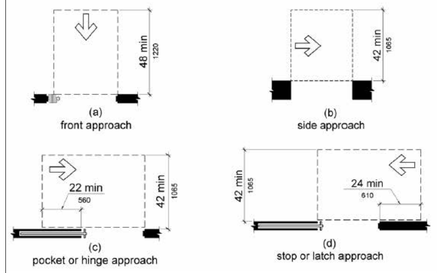
VISUAL ALARMS:

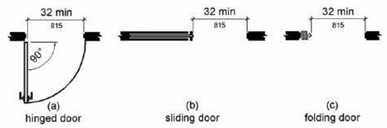
1. VISUAL ALARMS SHALL BE FLASHING LIGHTS ARRANGED TO FLASH IN CONJUNCTION WITH THE AUDIBLE EMERGENCY ALARMS. THE FLASHING FREQUENCY OF VISUAL ALARMS SHALL BE APPROXIMATELY 1 HZ. SPECIALIZED SYSTEMS USING ADVANCED TECHNOLOGY MAY BE SUBSTITUTED IF EQUIVALENT PROTECTION IS AFFORDED HANDICAPPED USERS OF THE BUILDING OR FACILITY.

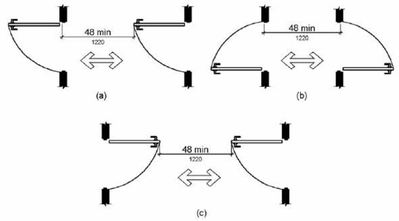
AUXILIARY ALARMS:

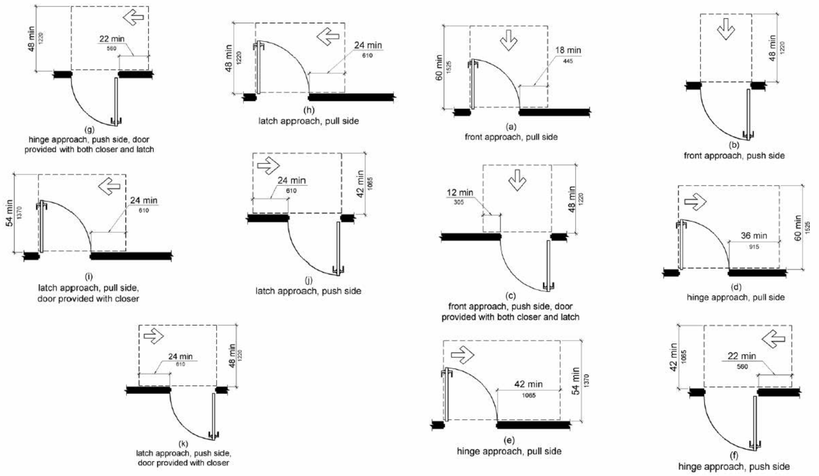
1. SENSORY ALARMS PROVIDED FOR PERSONS WITH HEARING IMPAIRMENTS SHALL BE CONNECTED TO THE BUILDING EMERGENCY SYTEM OR THERE SHALL BE A STANDARD 1100-VOLT ELECTRICAL RECEPTACLE INTO WHICH AN ALARM UNIT CAN BE CONNECTED TO BE ACTIVATED BY THE BUILDING ALARM SYSTEM. INSTRUCTIONS FOR USE OF THE AUXILIARY ALARM OR CONNECTIONS SHALL BE PROVIDED.

CLEAR FLOOR SPACE & TURNING SPACE

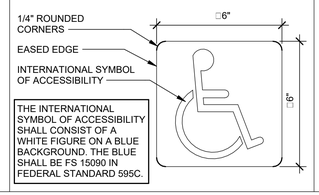






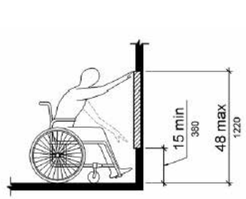


INTERNATIONAL SYMBOL OF ACCESSIBILITY

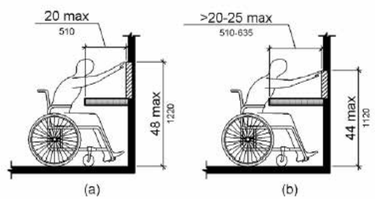


THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE FS 15090 IN FEDERAL STANDARD 595C.

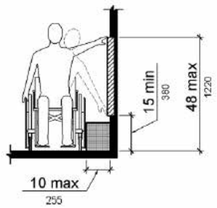
REACH RANGES:



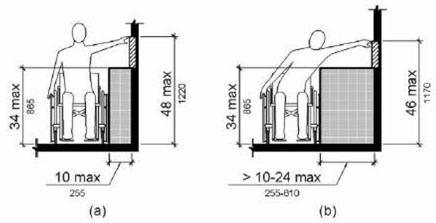
UNOBSTRUCTED FORWARD REACH



OBSTRUCTED FORWARD REACH

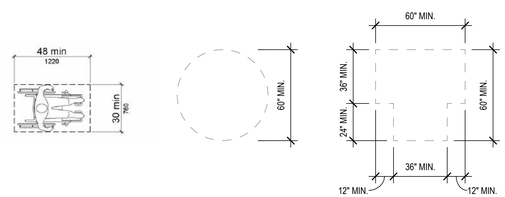


UNSTRUCTED SIDE REACH

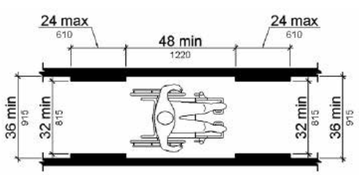


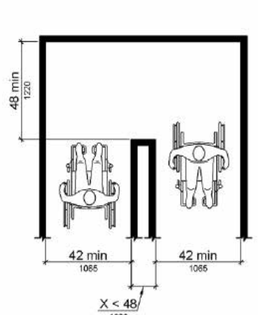
OBSTRUCTED HIGH SIDE REACH

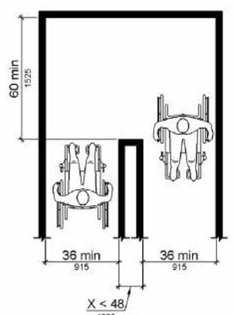
CLEAR FLOOR SPACE & TURNING SPACE



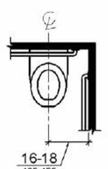
ACCESSIBILITY ROUTE REQUIREMENTS:



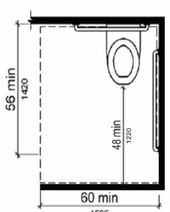




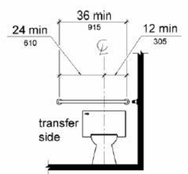
TOILET AND PLUMBING FACILITIES:



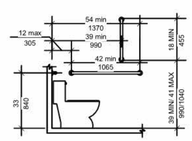
(a) wheelchair accessible water closets



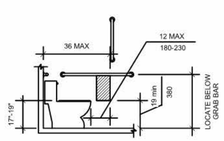
SIZE OF CLERANCE AT WATER CLOSETS



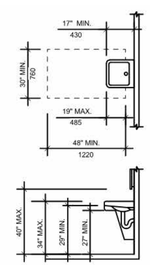
REAR WALL GRAB BAR AT WATER CLOSETS



SIDE WALL GRAB BAR AT WATER CLOSETS



TOILET TISSUE DISPENSER LOCATION



CLEARANCE REQUIREMENTS AT LAVATORY

sg

sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ARCHITECT OF RECORD:

Bergmeyer

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STAMP:

07/25/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	MN/SN/SL
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

ACCESSIBILITY

G-100

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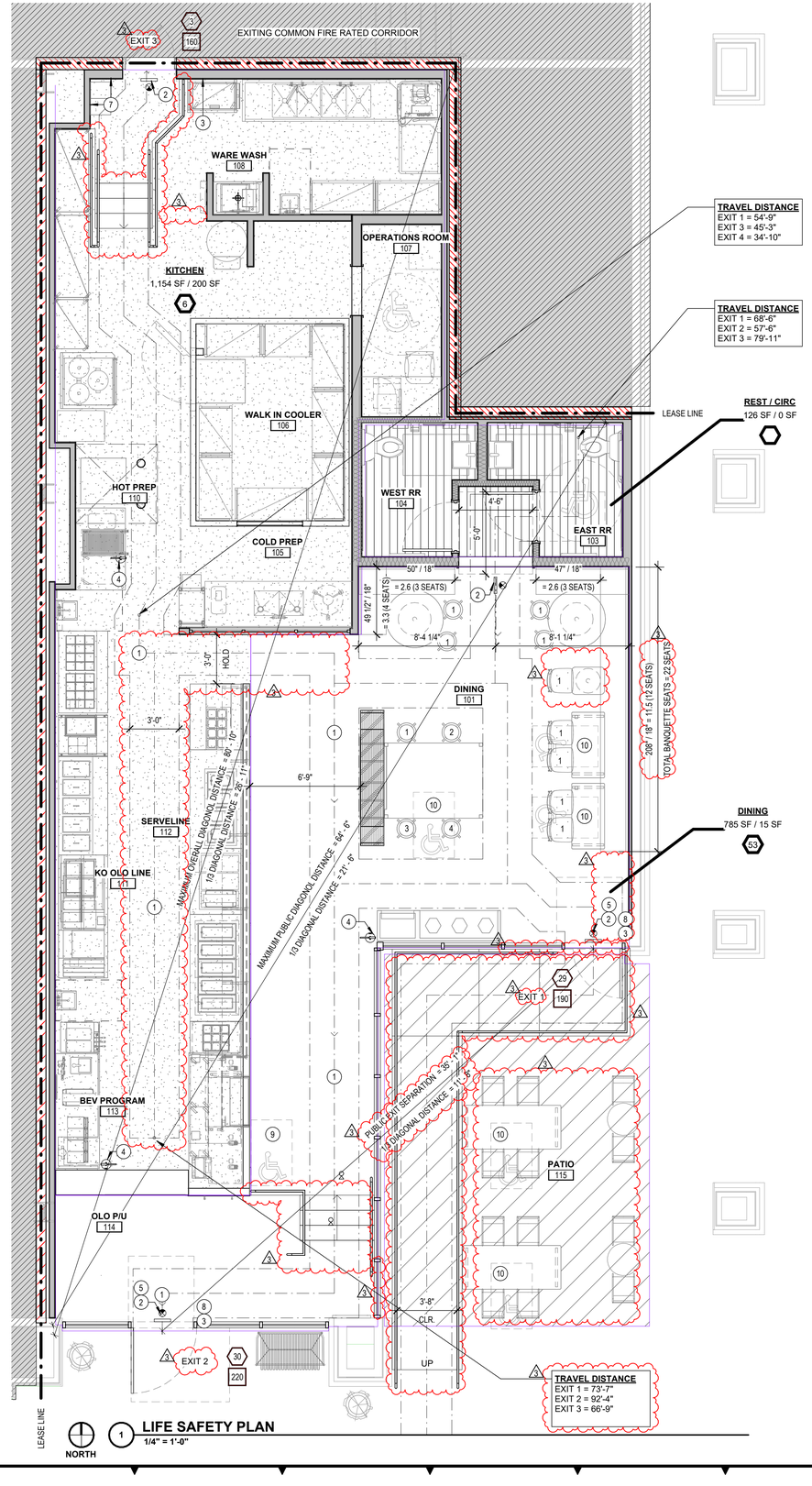

1 **LIFE SAFETY PLAN**
1/4" = 1'-0"

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GENERAL NOTES

A. REFER TO DOOR & HARDWARE SCHEDULE FOR ACCESSIBLE EGRESS DOOR AND HARDWARE REQUIREMENTS.

B. LANDLORD TO PROVIDE CONTINUATION OF ACCESSIBLE EGRESS ROUTE OF TRAVEL BEYOND LEASE LINE TO PUBLIC ACCESS / RIGHT OF WAY.

C. ACCESSIBLE ROUTE OF TRAVEL NOT TO EXCEED RUNNING SLOPE OF 1:20, MAX. CROSS SLOPE OF 1:50. NOTIFY ARCHITECT OF NON-COMPLIANCE.

D. DURING CONSTRUCTION, AT LEAST ONE FIRE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EACH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT.

E. EXITS, EXIT SIGNS, FIRE ALARM PANELS, HOSE CABINETS, FIRE EXTINGUISHER LOCATIONS, AND STANDPIPE CONNECTIONS SHALL NOT BE CONCEALED BY CURTAINS, MIRRORS, OR OTHER DECORATIVE MATERIAL.

F. ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED WITHIN ALLOWABLE REACH RANGES. LOW REACH SHALL BE MEASURED TO BE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.

G. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED WITHIN ALLOWABLE REACH RANGES. LOW REACH SHALL BE MEASURED TO BE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.

H. REFER TO ACCESSIBILITY SHEETS FOR ADDITIONAL DETAILS AND REQUIREMENTS FOR ACCESSIBLE FEATURES.

CODE REVIEW

OCCUPANCY & USE DATA:

TYPE OF OCCUPANCY:	A-2
OCCUPANCY SEPARATION:	1 HOUR
TYPE OF CONSTRUCTION:	I-B
AREA (TENANT ONLY):	2161SQ. FT.
AREA & HEIGHT MODIFICATIONS:	NONE PROPOSED

EGRESS & FIRE SAFETY REQUIREMENTS:

FIRE SPRINKLERS:	Yes
NUMBER OF EXITS REQUIRED:	2
NUMBER OF EXITS PROVIDED:	4
MINIMUM DISTANCE BETWEEN EXITS REQUIRED:	10' - 10"
DISTANCE BETWEEN EXITS PROVIDED:	35' - 1"
MAXIMUM TRAVEL DISTANCE TO EXIT ALLOWED:	250' - 0"
TRAVEL DISTANCE TO EXIT PROVIDED:	92' - 4"
MAXIMUM DEAD-END CORRIDOR ALLOWED:	20' - 0"
MAXIMUM DEAD-END CORRIDOR DESIGNED:	15' - 9"

TOTAL PLUMBING OCCUPANTS: 87

FIXTURE	MEN: (44)		WOMEN: (44)	
	REQ'D	PROVIDE	REQ'D	PROVIDE
WATER CLOSET	1	1	1	1
URINALS	0	0	N/A	N/A
LAVATORIES	1	1	1	1
DRINKING FOUNTAIN	NOT REQUIRED		NOT REQUIRED	

SEAT COUNTS/ ACCESSIBLE SEATING REQUIREMENTS:

DINING	35
PATIO	12
TOTAL SEATS PROVIDED:	47

ACCESSIBLE SEATING (5% OF TOTAL)

DINING:	2 REQUIRED	3 PROVIDED
PATIO:	1 REQUIRED	2 PROVIDED

OCCUPANT LOAD- PLUMBING

ROOM NAME	AREA SF	/	LOAD FACTOR	=	OCC. LOAD
DINING	785 SF	/	15 SF	=	53
KITCHEN	1,154 SF	/	200 SF	=	6
PATIO	365 SF	/	15 SF	=	25
REST / CIRC	126 SF	/	0 SF	=	0
	-				87

12 ACTUAL

BUILDING OCCUPANT LOAD

ROOM NAME	AREA SF	/	LOAD FACTOR	=	OCC.LOAD
DINING	785 SF	/	15 SF	=	53
KITCHEN	1,154 SF	/	200 SF	=	6
PATIO	365 SF	/		=	0
REST / CIRC	126 SF	/	0 SF	=	0
	2,430 SF				59

CODED NOTES

1 EXIT PATH OF TRAVEL, 44" MIN

2 ILLUMINATED EXIT SIGNAGE, SEE LIGHTING SCHEDULE

3 TACTILE EXIT SIGN WITH BRAILLE, SEE SIGNAGE SCHEDULE

4 FIRE EXTINGUISHER. CONFIRM FINAL LOCATIONS AND QUANTITIES WITH LOCAL FIRE JURISDICTION.

5 PROVIDE SIGN ABOVE DOOR: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"; SEE SIGNAGE SCHEDULE

7 36" CLEARANCE IN FRONT OF ELECTRICAL PANELS

8 INTERNATIONAL SYMBOL OF ACCESSIBILITY, SEE SIGNAGE SCHEDULE

9 ACCESSIBLE TRANSACTION COUNTER. MIN. 36" LENGTH AT 34" AFF. CLEAR FLOOR SPACE IN FRONT OF COUNTER TO BE MIN. 30"x 48" FOR SIDE APPROACH.

10 ACCESSIBLE SEATING

LEGEND

DINING

PATIO

KITCHEN

REST / CIRC

(X) OCCUPANCY LOAD

PATH OF TRAVEL

NEW FIRE-RATED WALL ASSEMBLY - 1 HR

EXISTING FIRE-RATED WALL ASSEMBLY - 2 HR

sg

sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

THESE DRAWINGS & SPECIFICATIONS ARE CONFIDENTIAL AND SHALL REMAIN THE SOLE PROPERTY OF SWEETGREEN CORPORATION. THEY SHALL NOT BE REPRODUCED (IN WHOLE OR IN PART), SHARED WITH THIRD PARTIES OR USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF SWEETGREEN CORPORATION. THESE DRAWINGS & SPECIFICATIONS ARE INTENDED TO EXPRESS DESIGN INTENT FOR A PROTOTYPICAL SWEETGREEN STORE (WHICH IS SUBJECT TO CHANGE AT ANY TIME) AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. NEITHER PARTY SHALL HAVE ANY OBLIGATION NOR LIABILITY TO THE OTHER (EXCEPT AS STATED ABOVE) UNTIL A WRITTEN AGREEMENT IS FULLY EXECUTED.

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STAMP:

07/25/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE.,
SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	MN/SL/SN
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

LIFE SAFETY PLAN

G-200

ITEM	LANDLORD/EXIST.	FURNISH: GENERAL CONTR.	FURNISH: SWEETGREEN	INSTALL: LANDLORD/EXIST.	INSTALL: GENERAL CONTR.	INSTALL: SWEETGREEN	REMARKS
GENERAL CONDITIONS							
ALL OTHER PERMITS		●			●		
BUILDING & HEALTH PERMITS		●			●		GC TO OBTAIN & PAY FOR ALL PERMITS; DO NOT INCLUDE THESE IN BID
DUMPSTERS/ TOILETS		●			●		
GC TO UNLOAD ALL MATERIALS PURCHASED DIRECTLY BY OWNER		●			●		
INSPECTIONS, CERTIFICATIONS AND CERTIFICATE OF OCCUPANCY		●			●		GC TO CALL-IN/ SCHEDULE ALL REQUIRED INSPECTIONS, INCLUDING HEALTH
LANDLORD SUBCONTRACTORS		●					GC TO PAY FOR ALL OTHERS
PROTECTION OF SITE WORK AND ADJACENT CONSTRUCTION		●			●		GC TO PATCH & REPAIR DAMAGED AREAS DUE TO DEMO & NEW WORK
PROJECT PROCEDURES, FIELD ENGINEERING		●			●	●	
PUNCH LIST PRIOR TO CONSTRUCTION TURNOVER		●			●	●	
REDLINED AS-BUILT PLANS		●			●		GC TO PROVIDE DIGITAL & ONE HARD COPY
TEMPORARY BARRICADES		●			●		COORDINATE CONSTRUCTION BARRICADE WITH LL
DEMOLITION							
ALL CONSTRUCTION DEBRIS REMOVAL		●			●		INCLUDING DISPOSAL OF CRATING & PACKING
ALL EXTERIOR BUILDING DEMO		●			●		SEE WORK LETTER AND DRAWINGS
ALL EXTERIOR SITE DEMO		●			●		SEE WORK LETTER AND DRAWINGS
ALL INTERIOR DEMO		●			●		SEE WORK LETTER AND DRAWINGS
ALL ROOFTOP UNITS/ CURBS/ EXHAUSTS/ OTHER ROOF EQUIPMENT		●			●		SEE WORK LETTER AND DRAWINGS
ASBESTOS, MOLD, PESTS BACTERIAL CONDITIONS		●			●		TO BE REMOVED IF ANYTHING FOUND ON SITE
OFFENSIVE SMELLS		●			●		TO BE CLEANSED AND ELIMINATED ENTIRELY
INTERIOR WORK							
ACCESSIBLE RESTROOMS		●			●		
ALL FLOOR TRANSITION STRIPS		●			●		COOLER BASE BY COOLER MANUFACTURER SEE PLAN FOR LOCATIONS
ALL METAL CORNER GUARDS AND PLATES		●			●		ALL TILED AND FRP WALLS TO HAVE OUTSIDE CORNER GUARDS
CEILING TILE		●			●		
CRACK SUPPRESSION MEMBRANE		●			●		
DEMISING WALLS FRAMING/ OTHER CONSTRUCT WALL PER CODE	●			●			SEE WORK LETTER AND DRAWINGS
FINAL CLEANING						●	KES TO REMOVE PROTECTIVE VINYL FILM FROM ALL EQUIPMENT
FLOORING AND BASE		●			●		AS SCHEDULED, REFER TO FINISH PLAN AND SCHEDULES
GYP. BOARD AT DEMISING WALL PER CODE, GYP. BOARD READY TO PAINT	●	●		●	●		EXISTING; GC TO REPAIR/REPLACE WHERE DAMAGED OR MISSING
GYP. BOARD AT PERIMETER WALLS, GYP. BOARD READY TO PAINT		●			●		
INTERIOR CONCRETE SLAB		●			●		REFER TO PLANS FOR SCOPE
INTERIOR LIGHTING AND WAYFINDING			●		●		SEE LIGHTING SCHEDULE, ELECTRICAL DRAWINGS
INTERIOR PARTITIONS FRAMING, SUBSTRATE AND BLOCKING		●			●		
LINTELS/ HM FRAMES, DOORS & HARDWARE		●			●		
NEW CONCRETE FLOOR; PATCH/ REPAIR AS REQUIRED	●	●		●	●		EXIST. PT SLAB; CUTTING, PATCHING, REPAIR AND FOR ALL UNDERGROUND NEW WORK. GC TO SCAN SLAB PRIOR TO BEGINNING WORK.
OPERATIONAL SIGNAGE			●		●		CONFIRM ALL LOCATIONS WITH DESIGN MANAGER PRIOR TO INSTALL
PAINTING		●			●		
PERIMETER WALLS FRAMING/ OTHER CONSTRUCT WALL PER CODE	●				●		EXISTING; GC TO REPLACE WHERE NEEDED
SOFFIT FRAMING AND GYP. BOARD		●			●		
SOLID SURFACE COUNTERTOPS			●			●	KES TO PROVIDE & INSTALL ALL SOLID-SURFACE COUNTERTOPS
SPECIALTY CEILINGS AND SOUNDPROOFING		●			●		UNISTRUT BY GC. GC TO PAINT CLOUDS AND RODS
SPRINKLER SYSTEM	●	●		●	●		GC TO SELECT SPK CONTRACTOR APPROVED BY LL
STAINLESS STEEL WALL FINISHES		●			●		CAULK ALL EDGES WITH STAINLESS STEEL COLORED CAULK
SUBSTRATE, INSULATION, SOUNDPROOFING, VAPOR BARRIER AT PERIMETER		●			●		GC TO EXTEND FINISHES IF EXISTING ARE NOT CONTINUOUS TO DECK
WALL FINISHES, FRP, TRIM AND SEALERS		●			●		GC TO PROVIDE 1-GAL. LABELED TOUCH-UP PAINT FOR ALL AREAS
WATERPROOFING MEMBRANE ON FLOOR AND UP WALLS		●			●		
4" STAINLESS STEEL BASE AT ALL MILLWORK		●			●		REFER TO A-121 FINISH SCHEDULE, B-2 STAINLESS STEEL WALL BASE
TEAM MEMBER BREAK AREA		●			●		
INTERIOR FURNITURE ASSEMBLE AND PLACE PER PLANS			●		●		GC TO REFER TO PLAN FOR PLACEMENT LOCATION(S)
EXTERIOR WORK							
ALL STRUCTURAL CONCRETE WORK, FOUNDATIONS	●	●		●	●		EXIST.; GC TO PATCH AND REPAIR DUE TO DEMO AND NEW WORK
ALL STRUCTURAL STEEL		●		●	●		EXIST.; GC TO PROVIDE PER PLANS
BACK DOOR AND HARDWARE		●			●		
CEM. BOARD/ EXTERIOR GRADE GYP. BOARD AT EXTERIOR WALLS/ SOFFITS	●			●			EXIST. BY LL; GC TO PROVIDE AS REQUIRED
EXTERIOR CONCRETE WORK AND FINISHES (FROST WALLS/ SIDEWALK)	●			●			
EXTERIOR LIGHTING		●	●		●		AS SCHEDULED, REFER TO LIGHTING PLAN AND SCHEDULE
EXTERIOR PATIO FOUNDATION & BASE	●			●			
EXTERIOR WALL	●	●		●	●		EXIST. BY LL. GC CUT/ REPAIR/ REPLACE AS REQUIRED
EXTERIOR WALL FINISHES	●	●		●	●		EXIST.; GC TO PROVIDE PER PLANS
FRONT DOOR AND HARDWARE		●			●		AS REQUIRED DUE TO NEW WORK
INSULATION, VAPOR BARRIER, FLASHING AT EXTERIOR DEMISING WALLS	●	●		●	●		EXISTING
LINTELS/ HM FRAMES	●			●			
MODIFIED EXTERIOR PATIO STRUCTURE		●			●		
REPAIRS TO CONC. JOINTS LOCATED AT FRONT OR SIDE ENTRY DOORS		●			●		GC TO PROVIDE AS NEEDED FOR CONCRETE SLAB
REPAIRS TO EXTERIOR WALL(S)		●			●		GC TO PROVIDE AS NEEDED FOR HOODS
ROOF LADDER	●	●			●		
SIDE DOOR AND HARDWARE		●			●		EXIST.; GC TO PROVIDE AS REQUIRED
SPANDREL GLASS	●			●			EXISTING
STOREFRONT AND GLAZING	●	●		●	●		EXIST.; GC TO PROVIDE PER PLANS
SUBSTRATE MESH OPENING			●		●		
SPEAKER PENETRATIONS TO EXTERIOR			●		●		
ROOF / GARAGE WORK							
CLOSING ALL EXISTING NON-USED PENETRATIONS		●			●		GC TO CAP & COORDINATE WORK
CURB ADAPTERS	●			●			LL TO PROVIDE EQUIPMENT PADS AND CURBS
INTERIOR ROOF HATCH AND LADDER WITH LOCK	●			●			EXISTING; LOCATED OUTSIDE OF OWNER SPACE
NEW ADDITIONAL AND ALTERATIONS TO EXISTING PENETRATIONS		●			●		BY LL'S SUB AT TENANT'S EXPENSE
NEW PENETRATIONS/ CURB CUTS		●			●		COORDINATE WITH LL REQUIRED SUBS
ROOF DECK, INSULATION, ROOFING JOINTS AND FLASHING	●	●		●	●		
ROOF DRAINS/ GUTTERS				●			EXISTING
STRUCT. DESIGN, STEEL AND CONSTRUCTION FOR ALL ROOF/GARAGE WORK	●			●			EXIST. BY LL.

ITEM	LANDLORD/EXIST.	FURNISH: GENERAL CONTR.	FURNISH: SWEETGREEN	INSTALL: LANDLORD/EXIST.	INSTALL: GENERAL CONTR.	INSTALL: SWEETGREEN	REMARKS
SPECIALTY ITEMS AND EQUIPMENT							
ALL FURNITURE							REFER TO EQUIPMENT SCHEDULE FOR RESPONSIBILITIES
ALL KITCHEN EQUIPMENT							REFER TO EQUIPMENT SCHEDULE FOR RESPONSIBILITIES
BLOCKING OR CARRIER SYSTEM FOR WALL MOUNTED RESTROOM SINK		●			●		PROVIDE & INSTALL PER SINK MFR. REQUIREMENTS
BOOTHS/ BANQUETTES			●		●		OWNER TO PROVIDE CONTROL SAMPLE OF MATERIAL
CHEMICAL DISPENSERS			●			●	OWNER VENDOR INSTALLS AND PROVIDES
CONDUIT WITH PULLSTRING FOR PHONE		●			●		
DATA WIRING IN PREMISES			●		●	●	GC TO PROVIDE AND PULL, SG VENDOR TO TERMINATE
DECOR PACKAGE/ ARTWORK			●		●		GC TO ASSEMBLE & INSTALL
DOOR CHIME W/TRANSFORMER AND PUSH BUTTON		●			●		VERIFY CHIME INSTALL LOCATION WITH OWNER
FIRE EXTINGUISHERS		●			●		GC TO VERIFY LOCATIONS & QUANTITIES PER FIRE MARSHALL
INTERIOR DIGITAL MENU BOARDS/ SUPPORTS			●		●		GC COORDINATE INSTALL W/ OWNER. VENDOR TO COMMISSION.
INTERIOR RAILINGS		●			●		
INTERIOR SIGNAGE - RESTROOM							REFER TO ART & GRAPHICS SCHEDULE FOR RESPONSIBILITIES
INTERIOR SIGNAGE - EGRESS REQUIRED							REFER TO ART & GRAPHICS SCHEDULE FOR RESPONSIBILITIES
INTERIOR SIGNAGE - DECORATIVE							REFER TO ART & GRAPHICS SCHEDULE FOR RESPONSIBILITIES
INTERIOR SIGNAGE - ILLUMINATED HANGING SIGN			●		●		ELEC. ATTACHMENT & BLOCKING BY GC
INTERNET LINES TO SPACE		●	●		●	●	GC DOES FINAL HOOK-UP
LOW-E FILM	●	●			●		FOR EXISTING GLAZING ONLY, 3M PR50
TILE MOSAICS/ ENTRY TILE MAT			●		●		REFER TO DETAILS FOR REQUIREMENTS
ORDER/ PICK-UP SIGNAGE			●		●		GC COORDINATE INSTALL W/OWNER
PATIO FURNITURE / UMBRELLAS							REFER TO PATIO FURNITURE SCHEDULE FOR RESPONSIBILITIES
PATIO RAILING & SHOP DRAWINGS			●		●		GC TO PROVIDE QUART OF TOUCH UP PAINT
POS EQUIPMENT AND CABLES			●			●	
PRIVACY FILM		●			●		
SAFE			●			●	GC TO PROVIDE POWER AS REQUIRED
SNEEZE GUARD GLASS W/FRAME			●			●	GC TO PROVIDE BLOCKING/ SHIMS AS REQUIRED
SECURITY CONDUIT AND J-BOXES AND COVER PLATES		●			●		
SECURITY WIRING AND EQUIPMENT		●	●		●	●	PROVIDED AND INSTALLED BY SSS
SOUND SYSTEM AND SPEAKERS			●			●	
SOUND SYSTEM CONDUITS - J-BOXES AND COVER PLATES		●			●		
SOUND SYSTEM WIRING			●			●	
TELEPHONE SYSTEMS - J-BOXES AND COVER PLATES		●			●		GC PROVIDE NEEDED CONDUIT
TOILET ROOM ACCESSORIES							REFER TO RESTROOM ACC SCHEDULE FOR RESPONSIBILITIES
WINDOW GRAPHICS			●			●	AT WINDOWS, PROVIDED BY OWNER SIGNAGE CO.
ELECTRICAL							
BRANCH CIRCUIT BREAKERS		●			●		
DISTRIBUTION CONDUIT AND WIRING	●			●			
ELECTRICAL SERVICE	●			●			GC TO COORDINATE LOCATION OF ALL RECEPTACLES
FIRE ALARM SYSTEM		●			●	●	GC COORD INSTALL W/ ALARM PROVIDER & LL REQ FA VENDORS
GENERAL CONDUIT, J-BOXES AND WIRING		●			●		
KITCHEN EQUIPMENT UTILITY CONNECTIONS		●			●		
LOW VOLTAGE WIRING		●		●	●		OWNER PROVIDE CABLES, GC PULLS, OWNER TO FINAL CONNX
ELECTRICAL PANELS	●	●		●	●		
SITE LIGHTING	●			●			
SERVICE CONDUIT AND WIRING	●	●		●	●		AS NOTED IN ELECTRICAL DWGS
TRANSFORMERS	●			●			LL TO PROVIDE CONDUIT & WIRING FROM MAIN PANEL TO SPACE
WIRING DEVICES, RECEPTACLES, SWITCHES, CONTACTORS AND TIMERS		●			●		
PLUMBING							
DISH TABLES			●			●	
EXTERIOR GREASE INTERCEPTOR	●			●			FIELD VERIFY EXISTING LOCATION
FAUCETS		●	●		●		PER OWNER SPECIFICATIONS LEVER TYPE, TYP
GAS LINE SIZE	●			●			FIELD VERIFY EXISTING LOCATION
GAS SERVICE TO SPACE	●			●			FIELD VERIFY EXISTING LOCATION
GREASE WASTE LINE TO SPACE	●			●			FIELD VERIFY EXISTING LOCATION & INVERT
INTERIOR GREASE TRAP	●	●		●	●		AS NOTED IN PLUMBING DWGS.
KITCHEN EQUIPMENT UTILITY CONNECTIONS		●			●		
KITCHEN SINKS			●			●	KITCHEN SINKS BY OWNER, INSTALLED BY GC
HAND SINKS			●			●	HAND SINKS FURNISHED BY OWNER, INSTALLED BY GC
MOP SINK		●			●		PER OWNER SPECIFICATIONS
PLUMBING VENT TO SPACE		●			●		
RESTROOM LAVATORIES, WATER CLOSETS AND URINALS		●			●		PER OWNER SPECIFICATIONS
SANITARY SEWER TO SPACE	●			●			FIELD VERIFY EXISTING LOCATION & INVERT
WATER FILTERS AND EQUIPMENT			●			●	FURNISHED BY KES
WATER HEATER, HEATER ALARM AND INTAKE/EXHAUST FLUE PIPE		●			●		PER OWNER SPECIFICATIONS
WATER SERVICE TO SPACE	●			●			FIELD VERIFY EXISTING LOCATION
MECHANICAL							
CAPTURE SHROUDS		●			●		
DUCTWORK AND AIR DISTRIBUTION		●			●		PER OWNER SPECIFICATIONS
EXHAUST FANS AND CURBS		●			●		
EXHAUST DUCTWORK		●			●		PER OWNER SPECIFICATIONS
KITCHEN EQUIPMENT UTILITY CONNECTIONS		●			●		PER OWNER SPECIFICATIONS
MAIN SPRINKLER SERVICE		●			●		
ROOFTOP UNITS AND CURBS	●		●	●	●		PER OWNER SPECIFICATIONS; CURBS BY LL
SPRINKLER SYSTEM DISTRIBUTION MODIFICATIONS		●			●		
TEST, BALANCE AND REPORT		●			●		PER OWNER SPECIFIED BY VENDOR
THERMOSTATS AND TEMPERATURE SENSORS		●			●		PER OWNER SPECIFICATIONS
UTILITIES TO RTU UNITS		●			●		
UNIT HEATERS							
TYPE II EXHAUST HOOD		●			●		PER OWNER SPECIFICATIONS
CURB FOR WIC CONDENSING UNIT		●			●		

GENERAL NOTES

1. GC TO DISCLOSE TO OWNER ANY DEFICIENCIES IN THE PLANS AND SPECIFICATIONS OF WHICH HE/ SHE HAS KNOWLEDGE AND WHICH WOULD PREVENT CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH ANY APPLICABLE LAWS, REGULATIONS OR CODES, OR IN A GOOD WORKMANLIKE MANNER.
2. GC SHALL PROVIDE ALL LABOR & MATERIALS FOR FINAL ELECTRICAL CONNECTION FOR SIGNAGE. ALL ROOF PENETRATIONS AND RE-ROOF WORK (IF REQUIRED FOR SIGNAGE INSTALLATION) SHALL BE BY GC. GC SHALL INSTALL AND HAVE COMPLETED AND IN PLACE ALL BLOCKING, BACKING, SUPPORTS, ELECTRICAL AND EIFS WALL FINISHES, ETC. ELEMENTS FOR ALL EXTERIOR SIGNAGE NO LATER THAN (15) CALENDAR DAYS AFTER PROJECT COMMENCEMENT AND ALL INTERIOR SIGNAGE NO LATER THAN (10) CALENDAR DAYS PRIOR TO CONSTRUCTION TURNOVER TO OWNER OPERATIONS. GC TO COORDINATE W/ OWNER SIGN COMPANY TO ACCOMMODATE SIGN INSTALLS.
3. GC RESPONSIBLE FOR ALL EQUIPMENT/ WALK-IN-COOLER/ HOODS/ FIXTURE/ SIGNAGE. FINAL CONNECTIONS ON WATER, GAS, ELECTRICAL, PHONES, CONDENSATE, FLOOR/ HUB DRAINS-FLOOR SINKS (FOR ALL FIXTURES/ EQUIPMENT AND OPENINGS), & ALL ROOFTOP EQUIPMENT (RTU'S).
4. GC SHALL INCLUDE AND PROVIDE ALL ELECTRICAL, ELECTRICAL WIRING, GAS, GAS PIPING, DEVICES, HOSES, WATER, WATER PIPING, ETC. ALL INCLUSIVE FOR ALL OWNER SUPPLIED EQUIPMENT.
5. GC TO PROVIDE ALL TEMPORARY UTILITY SERVICES DURING CONSTRUCTION. AOR TO COORDINATE W/ SPECIFICATIONS; SWEETGREEN TO VERIFY SPECIFICATIONS.
6. GC TO INCLUDE IN BID AND USE ANY LANDLORD DESIGNATED SUBCONTRACTORS.
7. GC TO CONTACT LL REGARDING LL REQUIRED SUBS.
8. ALL FLOORS, WALLS, CEILINGS AND FIXTURES IN KITCHEN OR SERVICE AREAS SHALL BE CONSTRUCTED FROM MATERIALS THAT ARE SMOOTH, DURABLE, EASILY CLEANABLE AND NON-ABSORBENT.
9. LANDLORD (LL) REFERS TO THE PROPERTY OWNER OR PROPERTY MANAGER.
10. OWNER OR TENANT REFERS TO SWEETGREEN.
11. GC REFERS TO OWNER CONTRACTED GENERAL CONTRACTOR.
12. GC SHALL CONFIRM WITH OWNER/ LANDLORD IF FIRE ALARM SYSTEM IS REQUIRED PRIOR TO START OF CONSTRUCTION. SPECIFIC QUESTIONS/ COORDINATION WITH OWNER REQUIREMENTS SHALL BE DIRECTED TO FIRE SYSTEM ENGINEER.
13. ANY ITEMS LISTED IN THE DRAWINGS BUT NOT IDENTIFIED IN THIS SCHEDULE ARE TO BE FURNISHED AND INSTALLED BY GC.

TURNOVER REQUIREMENTS

1. PRIOR TO THE STORE OPENING, THE GC SHALL PROVIDE (1) ONE (10) YARD RECYCLING CONTAINER FOR REMOVAL OF ALL PACKING MATERIALS RELATED TO TENANT FURNISHINGS. QUANTITY MAY VARY BASED ON SCOPE AND SIZE OF PROJECT, COORDINATE WITH PROJECT MANAGER.
2. THE GC SHALL COMPLETE ALL REQUIRED INSPECTIONS BY CONSTRUCTION COMPLETION DATE AND WILL FURNISH THE CONSTRUCTION MANAGER WITH THE CERTIFICATE OF OCCUPANCY. IN ADDITION, THE GC SHALL PROVIDE A LIST OF THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF ALL SUBCONTRACTORS. BOTH OF THESE ITEMS SHALL BE MOUNTED IN SEPARATE LETTER SIZED PICTURE FRAMES, WITHIN THE MANAGERS OFFICE. THE GC SHALL SEND A COPY OF BOTH OF THESE ITEMS TO THE PROJECT MANAGER.
3. THE GC SHALL TURN OVER (10) TEN COPIES OF ALL KEYS TO THE PROJECT MANAGER PRIOR TO PUNCH WALK. GC TO COORDINATE EXACT TIME TO SURRENDER POSSESSION OF PREMISES TO THE PROJECT MANAGER. EACH KEY SHALL BE CLEARLY MARKED FOR IDENTIFICATION.
4. UPON COMPLETION OF THE WORK, THE GC SHALL PROVIDE TWO (2) FINAL CLEANINGS PRIOR TO PUNCH AND TURNOVER TO BE PERFORMED BY A PROFESSIONAL CLEANING SERVICE. THE ENTIRE STORE SHALL BE THOROUGHLY CLEANED BEFORE TURNOVER. CLEANING TO INCLUDE ALL FLOORS, GLAZING, STOREFRONT, FINISHED SURFACES, KITCHEN EQUIPMENT, LIGHT FIXTURES AND MECHANICAL SUPPLY AND RETURN GRILLES. ALL DRAINS SHOULD ALSO BE FLUSHED.
5. UPON COMPLETION OF THE WORK, THE GC SHALL WATER JET AND CAMERA ALL WASTE LINES. GC TO COORDINATE AND PROVIDE RESULTS TO SG CONSTRUCTION MANAGER.
6. UPON COMPLETION OF THE WORK, THE GC SHALL PROVIDE NEW AIR FILTERS IN ALL HVAC UNITS.
7. SUPERINTENDENT MUST REMAIN ON JOB SITE THROUGH COMPLETION OF THE PUNCH LIST AND ONE (1) WEEK AFTER TURNOVER.
8. GC TO SCHEDULE, COORDINATE, AND SUPERVISE ALL SG VENDORS TO ENSURE SG VENDOR SCOPE OF WORK ARE COMPLETED PER PLAN AND SUPPORT THE CONSTRUCTION SCHEDULE. UPON COMPLETION OF THE WORK, THE GC TO COORDINATE WITH ALL SG VENDORS AND DEMONSTRATE THE OPERATION OF ALL SYSTEMS TO THE STORE AND FACILITY MANAGERS. THIS INCLUDES ELECTRICAL, MECHANICAL, PLUMBING, SOUND, AND SECURITY ITEMS.
9. ALL FLOOR FIXTURES, FURNITURE, EQUIPMENT AND HARDWARE TO BE UNBOXED AND POSITIONED PER PLANS PRIOR TO PUNCH LIST WALKTHROUGH. FIXTURES WHICH REQUIRE ASSEMBLY ARE TO BE COMPLETED BY THE GC.
10. THE SG CONSTRUCTION MANAGER SHALL COORDINATE A WALK THROUGH WITH THE LANDLORD REPRESENTATIVE AND OBTAIN A SIGNATURE INDICATING COMPLETION AND ACCEPTANCE. SIGNED DOCUMENT SHALL BE SUBMITTED AS PART OF THE PROJECT CLOSEOUT PACKAGE, IF REQUIRED BY LEASE.
11. THE SITE SUPERINTENDENT IS TO TAKE COMPREHENSIVE PHOTOS OF STORE PRIOR TO LEAVING THE JOBSITE AS INDICATED IN THE GC PROJECT MANUAL.
12. GC TO PROVIDE RED LINE AS-BUILTS IN CONFORMANCE WITH CLOSE OUT REQUIREMENTS.
13. GC TO COORDINATE 11-MONTH WARRANTY WALK.
14. GC TO PROVIDE TURNOVER BINDER AT TURNOVER DATE. ONE (1) HARDCOPY LEFT ON SITE TO OPERATIONS AND AN ELECTRONIC COPY SENT TO THE CM/ CC.

SHOP DRAWING SUBMITTAL & RESPONSIBILITY

ITEM	TO SUBMIT	TO REVIEW	TO APPROVE	NOTES
CUSTOM KITCHEN EQUIPMENT	KES	ARCH	DM	SINGER/EVI TO PROVIDE SHOP DRAWINGS FOR REVIEW
DOOR HARDWARE	GC	ARCH	ARCH	
ELECTRICAL PANELS	GC	ARCH	ENG	
EXTERIOR SIGNAGE	SIGNAGE VENDOR	DM	DM	UNDER SEPARATE PERMIT BY VENDOR
FIRE ALARM	GC	ENG	GC	GC TO SUBMIT UNDER SEPARATE PERMIT
FIRE SPRINKLER	GC	ENG	GC	GC TO SUBMIT UNDER SEPARATE PERMIT
LIGHTING PACKAGE	LIGHTING VENDOR	DM	CM	LIGHTING VENDOR TO PROVIDE SHOP DRAWINGS FOR FIXTURES AND CONTROL
MECHANICAL PACKAGE	GC	ARCH	ENG	
MILLWORK PACKAGE	MILLWORK VENDOR	ARCH	DM	OWNER MILLWORK PROVIDER TO PROVIDE SHOP DRAWINGS FOR REVIEW
PATIO RAILINGS	VENDOR	ARCH	DM	DESIGN TO BE COPIED. ARCH TO CLARIFY DESIGN INTENT WITH DESIGN IF DIFFERENT THAN CONCEPT.
PLUMBING	GC	ENG	ENG	
RAILINGS	GC	ARCH	DM	
STOREFRONT	GC	DM	ARCH	
STRUCTURAL STEEL	GC	ARCH	ARCH	
TYPE II HOOD	GC	ARCH	ENG	
WALK-IN COOLER	KES	DM, ARCH	ARCH	SINGER/EVI TO PROVIDE SHOP DRAWINGS FOR REVIEW

*GC TO SUBMIT ALL SUBMITTALS AND SHOP DRAWINGS TO THE ARCHITECT

sg

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LOS ANGELES, CALIFORNIA 90018

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07/25/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

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CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

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RESPONSIBILITY MATRIX

G-300

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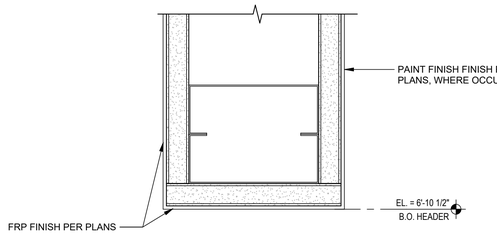
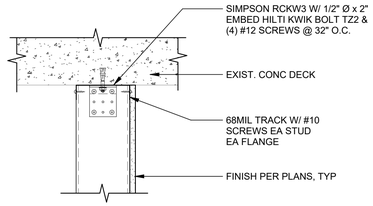
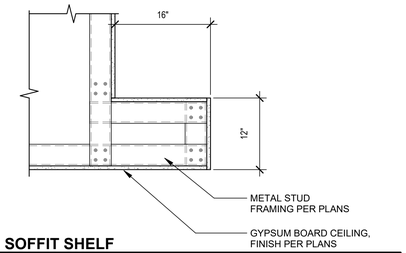


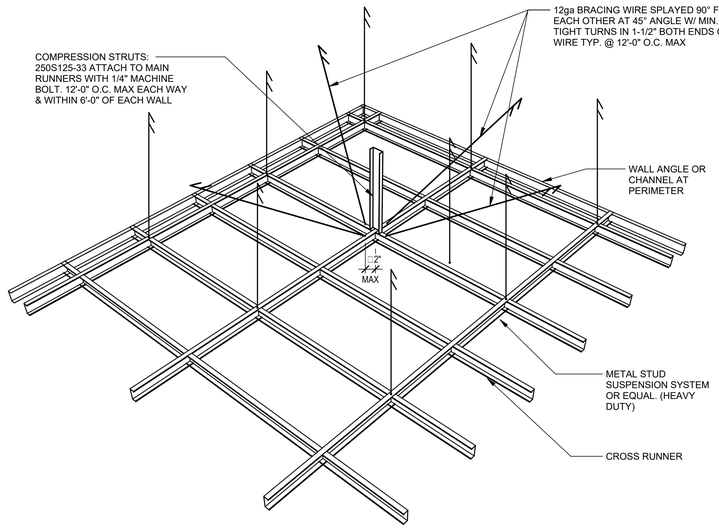
2 BULKHEAD TRIM
6" = 1'-0"



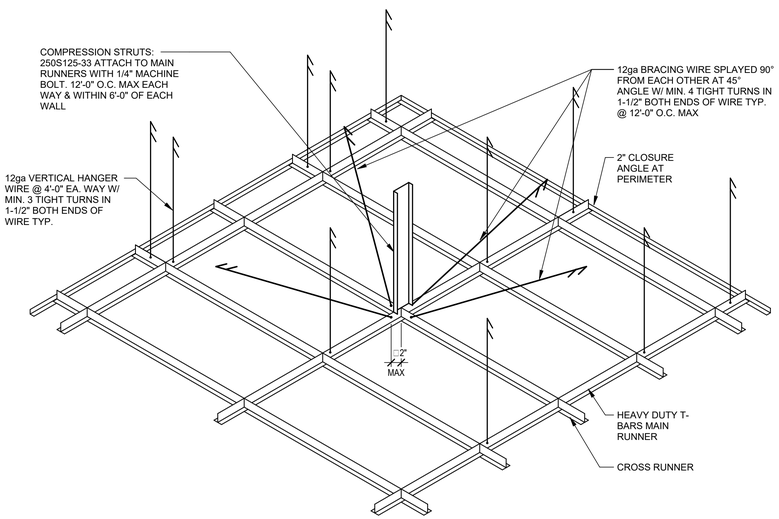
7 SECTION - SOFFIT ATTACHMENT AT DECK
1 1/2" = 1'-0"



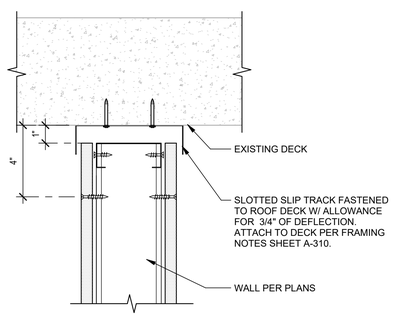
6 SOFFIT SHELF
1" = 1'-0"



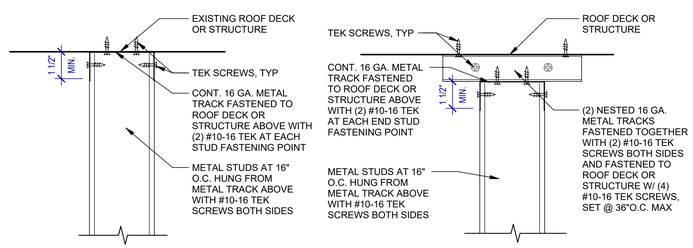
5 TYP. DRYWALL SUSPENSION SYSTEM (ALTERNATE DESIGN)
NTS



4 LAY-IN CEILING SUSPENSION SYSTEM
NTS



9 DEFLECTION TRACK AT PARTITION - CONCRETE / METAL DECK
3" = 1'-0"



1 SOFFIT ATTACHMENT AT ROOF DECK OR STRUCTURE
3" = 1'-0"

SUSPENDED SYSTEMS NOTES:

1. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB.
2. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS.
3. LATERAL FORCE-BRACING MEMBERS ARE TO BE LOCATED A MINIMUM OF 6 INCHES FROM ALL HORIZONTAL PIPING OR DUCTWORK THAT ARE NOT PROVIDED WITH BRACING FOR HORIZONTAL FORCES.
4. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND STRUCTURE AND SHALL SUPPORT A DESIGN LOAD OF THE GREATER OF 200 POUNDS OR THE ACTUAL LOAD, WITH A SAFETY FACTOR OF 2.
5. SEISMIC SUPPORTS ARE REQUIRED FOR HVAC DUCTWORK WHERE THE DUCTS ARE SUSPENDED FROM HANGERS MORE THAN 12 INCHES IN LENGTH OR IF THE DUCTS HAVE A CROSS SECTIONAL AREA OF 6 SQUARE FEET OR GREATER (ASCE 7 SEC. 13.6.7).
6. MECHANICAL AND LIGHT FIXTURES: MECHANICAL SYSTEMS LESS THAN 20 POUNDS AND LIGHT FIXTURES LESS THAN 10 POUNDS CAN BE PLACED IN THE SUSPENDED CEILING SYSTEM AND ARE TO BE CONNECTED TO TWO (2) VERTICAL 12 GAUGE WIRES ON THE FIXTURE'S DIAGONAL. IF LARGER THAN THAT, TWO #12 GAUGE WIRES MUST BE ATTACHED TO THE STRUCTURE ABOVE BUT MAY LIE WITHIN THE GRID. WIRES ARE ATTACHED TO OPPOSING CORNERS ALONG THE FIXTURE'S DIAGONAL. ALL OF THESE AFOREMENTIONED WIRES MAY BE SLACK. IF MECHANICAL UNITS ARE GREATER THAN 56 POUNDS THEY MUST BE ATTACHED SOLELY TO THE STRUCTURE ABOVE. (CISCA)
7. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2 INCH OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.
8. CHANGES IN CEILING PLAN ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING.
9. CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF CEILING.

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PLAZA MIDWOOD

PROJECT INFORMATION:
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TEMPLATE VERSION:	2401

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CEILING DETAILS

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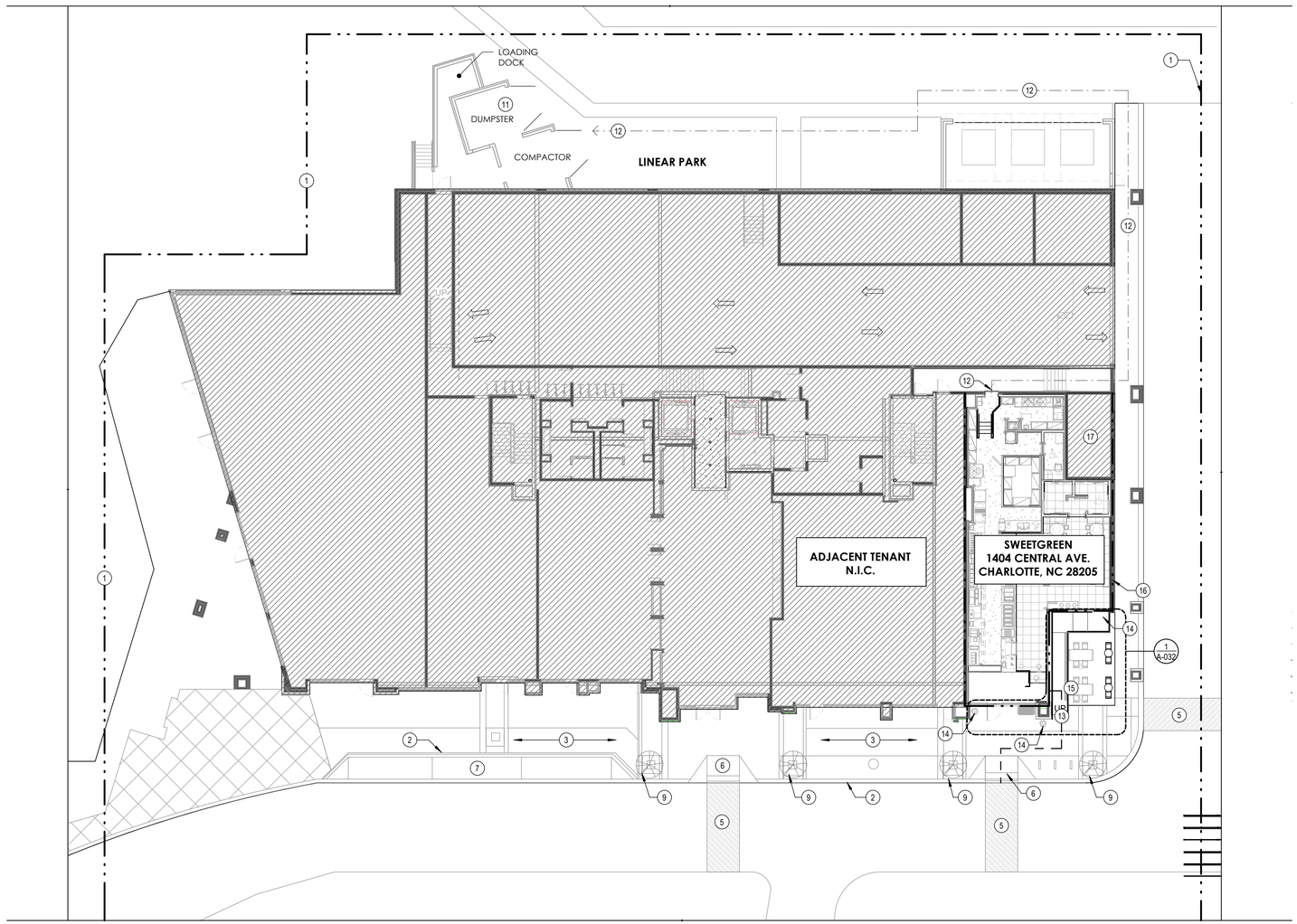

NORTH

1 **ARCHITECTURAL SITE PLAN**
1/16" = 1'-0"

GENERAL NOTES

A. ALL SITE WORK INCLUDING PAVING, CURBING, PARKING, PARKING LOT LIGHTING, SIDEWALKS, LANDSCAPING, AND DUMPSTER ENCLOSURE ARE EXISTING UNLESS NOTED OTHERWISE.

CODED NOTES

1 PROPERTY LINE
2 EXISTING CONCRETE CURB
3 EXISTING SIDEWALK
5 EXISTING CROSSWALK
6 EXISTING ACCESSIBLE RAMP
7 EXISTING PARKING STRIPING
9 EXISTING TREE
11 EXISTING DUMPSTER/ TRASH ENCLOSURE
12 PATH OF TRAVEL TO DUMPSTER AREA
13 ACCESSIBLE PATH OF TRAVEL FROM PUBLIC RIGHT OF WAY TO MAIN ENTRANCE
14 NEW PLANTER
15 PROPOSED PATIO
16 LEASE LINE
17 FIRE COMMAND RM

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SITE PLAN

A-000

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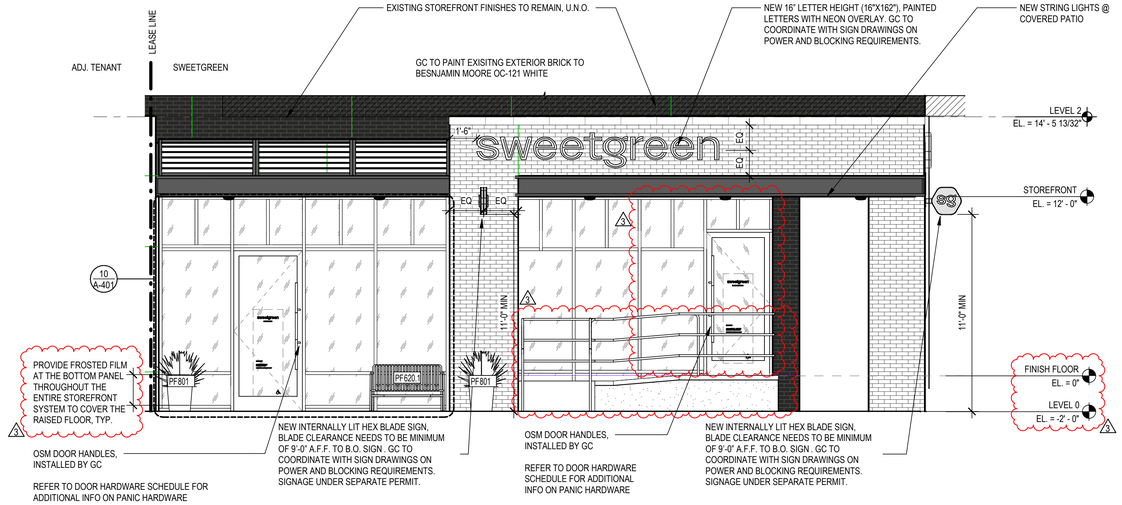
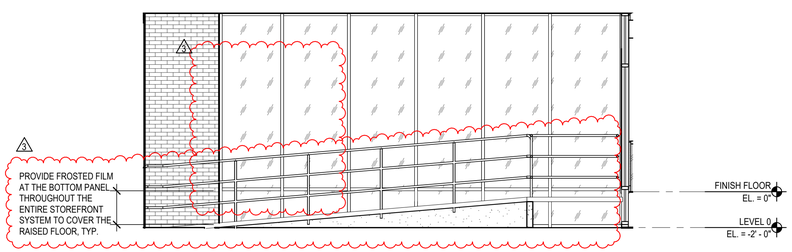
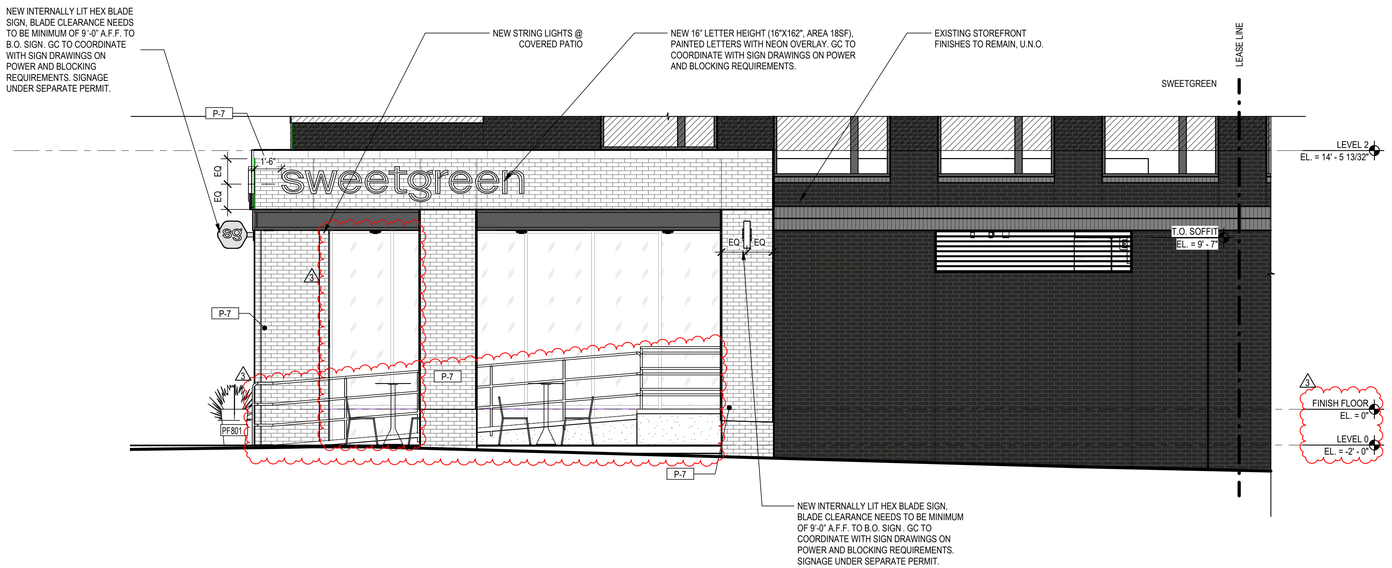


3 **PROPOSED STOREFRONT SOUTH VIEW**
1/4" = 1'-0"



2 **ELEVATION STOREFRONT EAST**
1/4" = 1'-0"



1 **ELEVATION STOREFRONT EAST - FACADE**
1/4" = 1'-0"

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sg

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REVISIONS

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A	03/17/2025	ADDENDUM A
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2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

STOREFRONT ELEVATION

A-030

GENERAL NOTES

A. REFER TO FURNITURE SCHEDULE FOR TOTAL QUANTITIES OF ALL FURNITURE ITEMS. ALL FURNITURE ITEMS MAY NOT BE SHOWN ON PLANS.

B. REFER TO ELECTRICAL PLANS FOR TOTAL QUANTITIES OF ALL EXTERIOR LIGHTS.

CODED NOTES

1 <varies>

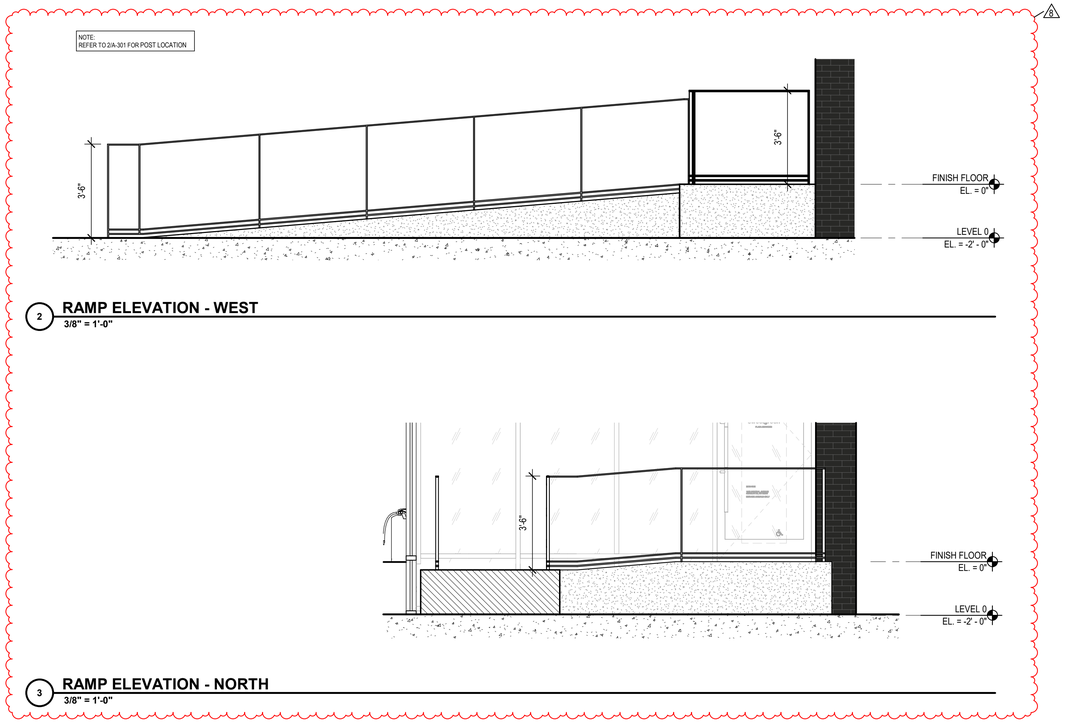
2 EXISTING FLOOR TO REMAIN

PATIO FURNITURE- "PF"

SCHEDULE NOTE:

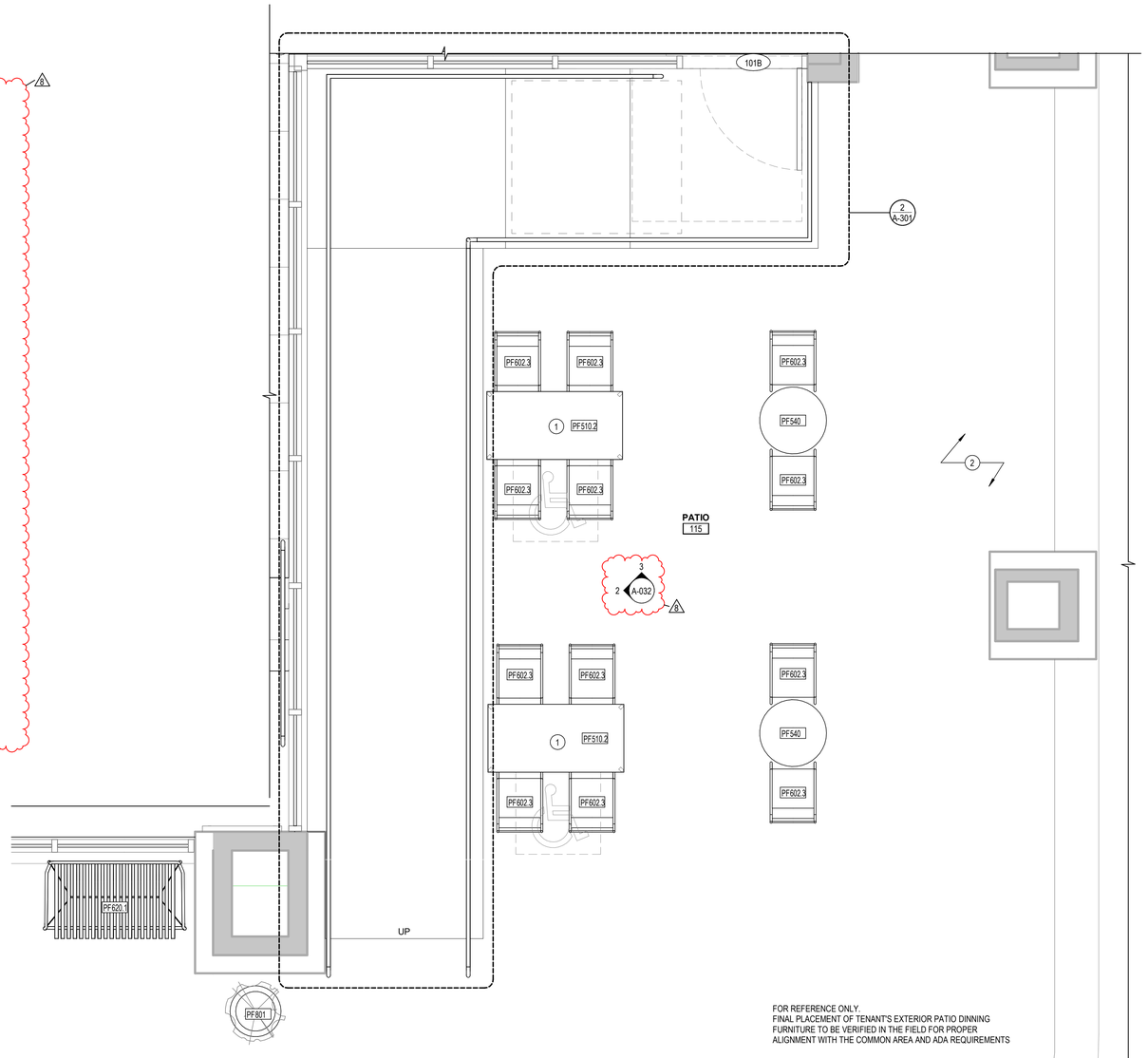
1. CONTRACTOR TO VERIFY MODEL NUMBER WITH FURNITURE SPECIFICATIONS. ANY DISCREPANCIES BETWEEN MODEL NUMBER AND DESCRIPTION ARE TO BE DISCUSSED WITH ARCHITECT.
2. SCHEDULE QUANTITIES ARE DERIVED FROM THE DRAWING SOFTWARE AND ARE NOT TO BE USED FOR ORDERING MATERIALS OR EQUIPMENT WITHOUT VERIFICATION. IT IS THE RESPONSIBILITY OF THE GC, SUB-CONTRACTORS, VENDORS AND/OR SWEETGREEN TO VERIFY QUANTITIES PRIOR TO PURCHASING OR AUTHORIZING PURCHASES FOR THE PROJECT. QUANTITIES SHOWN DO NOT TAKE INTO ACCOUNT ANY WASTE OR OVERAGE.
3. CUSTOM ELEMENTS ARE NOTED WITH AN "X" PREFIX.

TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY	INSTALL	REMARKS
500- PATIO TABLES							
PF 510.2	2	ACCESSIBLE PATIO TABLE	RAD FURNITURE	SOLID SERIES SQUARE CAFE TABLE, BLACK, 24"x48"x30"	OWNER	GC	
PF 540	10	PALISSADE CONE BASE OUTDOOR TABLE	HAY	OLIVE	OWNER	GC	
600- PATIO SEATING							
PF 602.3	24	PALISSADE DINING CHAIR	HAY	OLIVE	OWNER	GC	
PF 620.1	1	PALISSADE COLLECTION DINING BENCH - OLIVE	HAY	100129364 - OLIVE	OWNER	GC	
PF 660.1	6	PATIO DINING BENCH-TIMBER WOOD	CUSTOM DISTRICT	TIMBER WOOD BENCH, REFERENCE LA BREA TIMBER BENCHES	OWNER	GC	TX-2 FOR THE SEAT CUSHION
PF 660.2	1	PATIO DINING BENCH-TIMBER WOOD	CUSTOM DISTRICT	TIMBER WOOD BENCH, REFERENCE LA BREA TIMBER BENCHES	OWNER	GC	TX-2 FOR THE SEAT CUSHION
800- PLANTERS							
PF 801	3	GLASS FIBER REINFORCED CONCRETE PATIO PLANTER, CONCRETE GRAY COLOR	TOURNESOL SITEWORKS	UCS-1800	OWNER	GC	OWNER TO PROVIDE PLANTING



2 **RAMP ELEVATION - WEST**
3/8" = 1'-0"

3 **RAMP ELEVATION - NORTH**
3/8" = 1'-0"



NORTH

1 **ENLARGED PATIO PLAN**
1/2" = 1'-0"

FOR REFERENCE ONLY.
FINAL PLACEMENT OF TENANT'S EXTERIOR PATIO DINNING FURNITURE TO BE VERIFIED IN THE FIELD FOR PROPER ALIGNMENT WITH THE COMMON AREA AND ADA REQUIREMENTS

10/14/2025 10:34:32 PM

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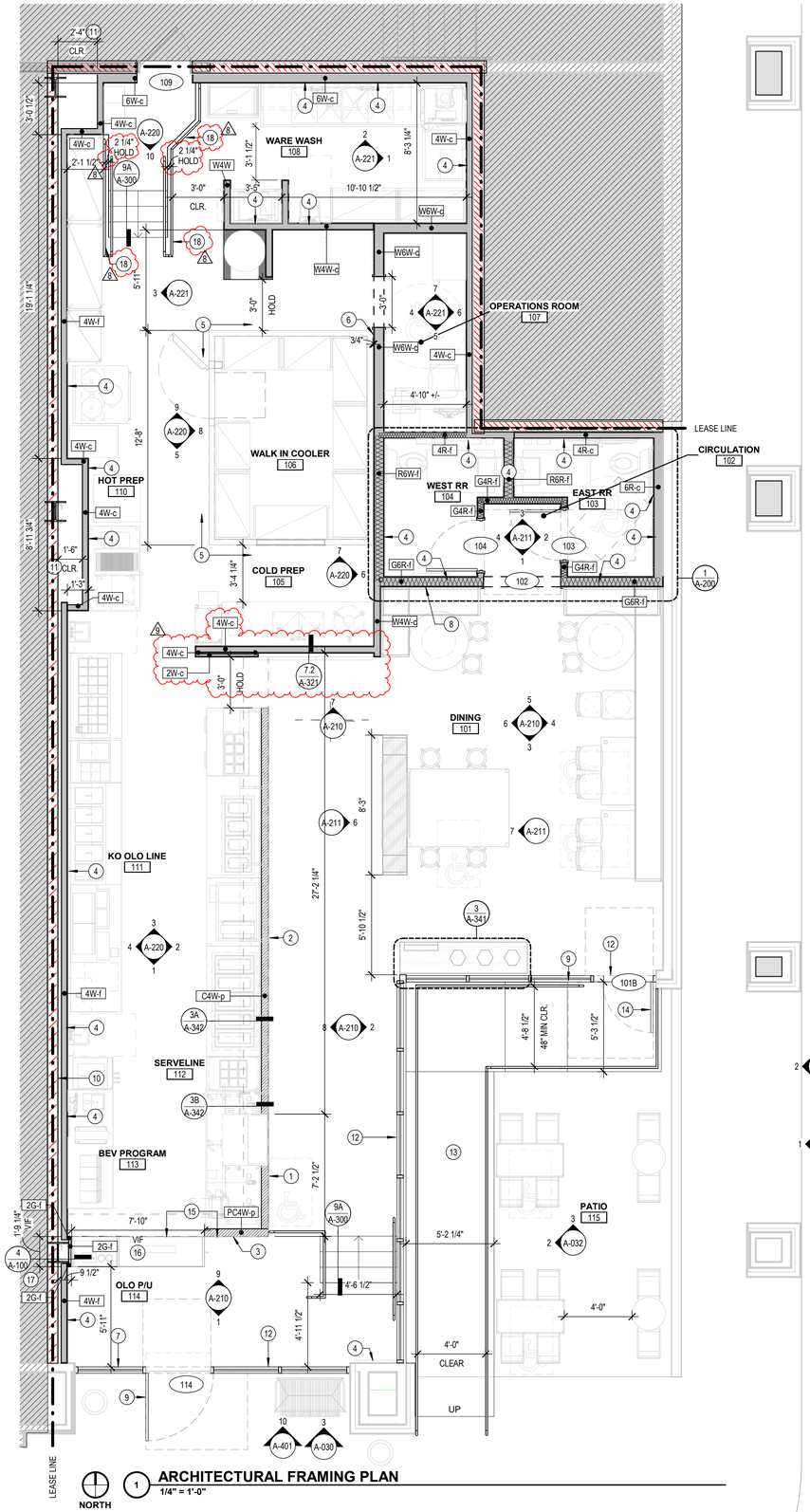
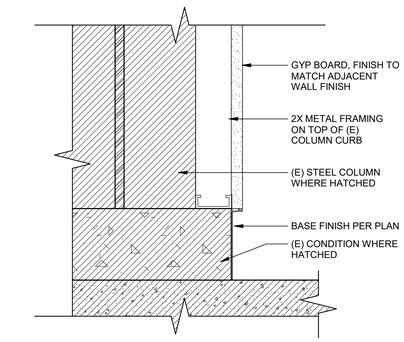
5	09/26/2025	BULLETIN 02
8	10/13/2025	RFI12

ENLARGED PATIO PLAN

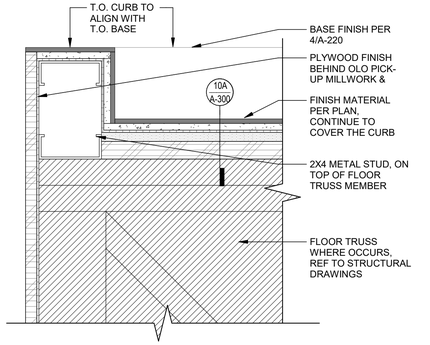
A-032



1 ARCHITECTURAL FRAMING PLAN
1/4" = 1'-0"



4 FURR WALL @ COLUMN
3" = 1'-0"



3 CURB DETAIL @ POS
3" = 1'-0"

LEGEND

SYMBOL	DESCRIPTION
	EXISTING CONSTRUCTION
	NEW WALL CONSTRUCTION
	NEW WALL CONSTRUCTION W/ SOUND BATT INSULATION
	NEW PARTIAL HEIGHT WALL
	FIRE-RATED WALL ASSEMBLY - 1 HR
	FIRE-RATED WALL ASSEMBLY - 2 HR
	EXISTING DOOR
	NEW DOOR

GENERAL NOTES

A. ALL DIMENSIONS ARE TO FACE OF FRAMING OR CENTERLINE OF STRUCTURE U.N.O.

B. WALL SUBSTRATES ARE CONTAINED WITHIN THE WALL TAG INFORMATION. REFER TO PARTITION WALL SCHEDULE. SUBSTRATE SIDE 1 IS IDENTIFIED BY THE SIDE THE WALL TAG IS LOCATED ON.

C. DASHED CIRCLE IN RESTROOMS INDICATES 5'-0" TURNING SPACE PER CODE / ADA

D. INTERIOR DOORS ARE 3" OFF OF PERPENDICULAR WALL UNLESS NOTED OTHERWISE.

E. ALL DIMENSIONS ARE TO BE HELD PER DRAWING UNLESS NOTED OTHERWISE. CONTACT ARCHITECT IF DISCREPANCY IS REQUIRED DUE TO AS-BUILT CONDITIONS.

F. REFER TO DOOR & WINDOW SHEET FOR STOREFRONT RESPONSIBILITY AND DOOR TYPES.

G. PROVIDE DEFLECTION TRACKS AT ALL WALLS THAT CONNECT TO THE UNDERSIDE OF STRUCTURE.

H. SURFACE MOUNTED PIPING IS NOT ACCEPTABLE. PIPING AND CONDUITS OF ALL TYPES MUST BE CONCEALED WITHIN WALLS, FLOORS AND CEILINGS, UNLESS OTHERWISE NOTED.

I. GC TO VERIFY ALL INTERIOR DIMENSIONS AFTER DEMO, PRIOR TO LAYOUT START. ALERT SWEETGREEN AND ARCHITECT OF ANY DISCREPANCIES.

J. FIRESTOP ALL PENETRATIONS THROUGH RATED PARTITIONS WITH APPROVED ASSEMBLIES MATCHING THE PARTITION RATING.

CODED NOTES

1 LOW WALL, REFER TO SECTION FOR HEIGHT

2 SOFFIT ABOVE, SHOWN DASHED. REFER TO REFLECTED CEILING PLAN.

3 FACE OF SOFFIT TO ALIGN WITH FACE OF WALL BELOW

4 PROVIDE BLOCKING IN WALL FOR ARTWORK AND EQUIPMENT PER PLANS, REFER TO ELEVATIONS FOR LOCATIONS

5 OUTLINE OF COOLER. GC TO CONFIRM DIMENSIONS OF WALK-IN COOLER WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.

6 2" MIN. SEPARATION BETWEEN WALK-IN COOLER WALL AND ANY ADJACENT WALL, TYP.

7 EXISTING STOREFRONT TO BE MODIFIED, REFER TO STOREFRONT ELEVATIONS

8 PROVIDE BLOCKING AT DINING AREA WALLS, FULL WALL WOOD CLADDING TO BE INSTALLED

9 GC TO REMOVE EXISTING DOOR HARDWARE AND REPLACE WITH CLIENT STANDARDS; COORDINATE W/ DOOR SCHEDULE. GC TO REPAIR ALL HOLES AS NEEDED

10 GC TO COMPLETE 1 HOUR RATED WALL ASSEMBLY AT DEMISING WALL. HOLD NEW FURRING TIGHT TO DEMISING WALL.

11 HOLD FRAMING TIGHT TO BASE BUILDING PIPES. COORDINATE WITH CLEARANCES FOR NEW EQUIPMENT AND PLUMBING/ELECTRICAL.

12 GC TO PROVIDE (1) LAYER OF SHEATHING AT EXTERIOR WALLS WHERE NOT FURRED OUT , TYP

13 RAMP DETAILS, SEE STRUCTURAL DRAWINGS

14 RELOCATE AND REUSE (E) DOOR; GC TO CONFIRM WITH TENANT

15 ALIGN BACK FACE OF OLO SHELF WITH FACE OF KNEE WALL

16 VIF FOR OLO SHELF WIDTH FOR MILLWORK DESIGN TO ALIGN WITH KNEE WALL END AT POS.

17 VIF COLUMN FURRING DIMENSIONS AND OLO SHELF DEPTH TO ALIGN MILLWORK WITH COLUMN FURRING WIDTH.

18 INT. HANDRAIL, REFER TO 7/A-301 FOR CONTINUOUS SUPPORT BLOCKING & DETAIL 8

SCHEDULE

		CONSTRUCTION		
TAG	WIDTH	SUBSTRATE SIDE 1	STUD	SUBSTRATE SIDE 2
2G	2 1/4"		1-5/8"	5/8" GYPSUM BOARD
2W	2 1/4"		1-5/8"	5/8" CEMENT BOARD AND 5/8" PLYWOOD
4R	4 1/4"		3-5/8"	5/8" CEMENT BOARD AND 5/8" GYPSUM BOARD
4W	4 1/4"		3-5/8"	5/8" CEMENT BOARD AND 5/8" PLYWOOD
6C	6 5/8"		6"	5/8" CEMENT BOARD
6G	6 5/8"		6"	5/8" GYPSUM BOARD
6R	6 5/8"		6"	5/8" CEMENT BOARD AND 5/8" GYPSUM BOARD
6W	6 5/8"		6"	5/8" CEMENT BOARD AND 5/8" PLYWOOD
C4W	4 7/8"	5/8" CEMENT BOARD	3-5/8"	5/8" CEMENT BOARD AND 5/8" PLYWOOD
G4R	4 7/8"	5/8" GYPSUM BOARD	3-5/8"	5/8" CEMENT BOARD AND 5/8" GYPSUM BOARD
G6R	7 1/4"	5/8" GYPSUM BOARD	6"	5/8" CEMENT BOARD AND 5/8" GYPSUM BOARD
PC4W	5 1/2"	5/8" CEMENT BOARD OVER 5/8" PLYWOOD	3-5/8"	5/8" CEMENT BOARD AND 5/8" PLYWOOD
R6R	7 1/4"	5/8" CEMENT BOARD AND 5/8" GYPSUM BOARD	6"	5/8" CEMENT BOARD AND 5/8" GYPSUM BOARD
R6W	7 1/4"	5/8" CEMENT BOARD AND 5/8" GYPSUM BOARD	6"	5/8" CEMENT BOARD AND 5/8" PLYWOOD
W4W	4 7/8"	5/8" CEMENT BOARD AND 5/8" PLYWOOD	3-5/8"	5/8" CEMENT BOARD AND 5/8" PLYWOOD
W6W	7 1/4"	5/8" CEMENT BOARD AND 5/8" PLYWOOD	6"	5/8" CEMENT BOARD AND 5/8" PLYWOOD

REFER TO WALL ASSEMBLY DETAILS FOR ADDITIONAL REQUIREMENTS

KEY / DIAGRAM / DESCRIPTION

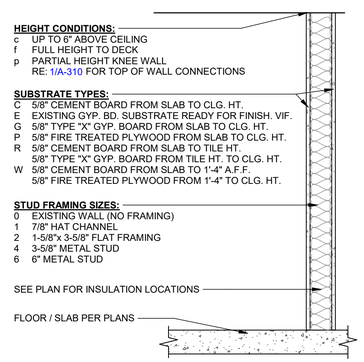
A#A-h — A) SUBSTRATE, #) STUD SIZE, A) SUBSTRATE, h) HEIGHT CONDITION

#A-h — #) STUD SIZE, A) SUBSTRATE, h) HEIGHT CONDITION

HEIGHT CONDITIONS:
c UP TO 6" ABOVE CEILING
f FULL HEIGHT TO DECK
p PARTIAL HEIGHT KNEE WALL
RE: 1/A-310 FOR TOP OF WALL CONNECTIONS

SUBSTRATE TYPES:
C 5/8" CEMENT BOARD FROM SLAB TO CLG. HT.
E EXISTING GYP. BD. SUBSTRATE READY FOR FINISH. VIF.
G 5/8" TYPE "X" GYP. BOARD FROM SLAB TO CLG. HT.
P 5/8" FIRE TREATED PLYWOOD FROM SLAB TO CLG. HT.
R 5/8" CEMENT BOARD FROM SLAB TO TILE HT. 5/8" TYPE "X" GYP. BOARD FROM TILE HT. TO CLG. HT.
W 5/8" CEMENT BOARD FROM SLAB TO 1'-4" A.F.F. 5/8" FIRE TREATED PLYWOOD FROM 1'-4" TO CLG. HT.

STUD FRAMING SIZES:
0 EXISTING WALL (NO FRAMING)
1 7/8" HAT CHANNEL
2 1-5/8"x 3-5/8" FLAT FRAMING
4 3-5/8" METAL STUD
6 6" METAL STUD



sg

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07/29/2025

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PLAZA MIDWOOD

PROJECT INFORMATION:
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CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1
5	09/26/2025	BULLETIN 02
7	09/26/2025	RFI 7
8	10/13/2025	RFI12
9	10/15/2025	RFI 13

ANNOTATION & DIMENSION FLOOR PLAN

A-100

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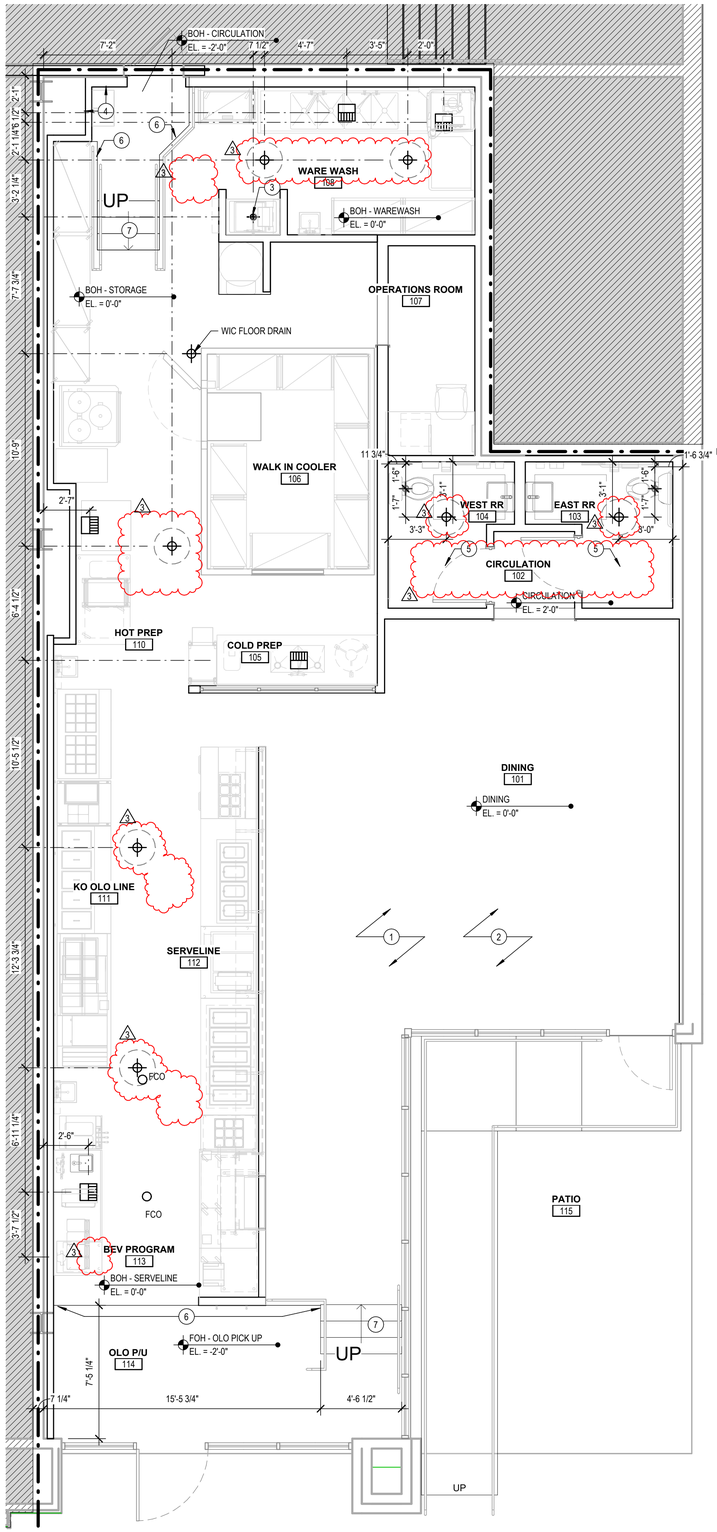

1 **ARCHITECTURAL SLAB PLAN**
1/4" = 1'-0"

GENERAL NOTES

A. ALL DIMENSIONS ARE TO THE FACE OF EXISTING WALLS, COLUMNS, OR CENTERLINE OF FIXTURES U.N.O.

B. GENERAL CONTRACTOR TO REVIEW ELECTRICAL PLANS FOR LIGHTING AND POWER STUB LOCATIONS.

C. VERIFY TYPE OF OPENINGS WITH PLUMBING PLAN, TYP.

D. FLOOR SINKS ARE TO BE FLUSH WITH FINISHED FLOOR ELEVATIONS.

E. REFER TO SPECIFICATIONS FOR TYPICAL CONTROL JOINT REQUIREMENTS IF REQUIRED.

F. JET & CAMERA ALL DRAIN LINES TO SEWER MAIN PRIOR TO STORE TURNOVER. BEFORE AND AFTER IMAGES SHALL BE SENT TO SWEETGREEN AND ARCHITECT.

G. INTERIOR EXCAVATION: GC SHALL DETERMINE TO EXTENTS POSSIBLE, INCLUDING CONTACTING LANDLORD TO RESEARCH OTHER TENANT CONSTRUCTION, THE LOCATION OF INTERIOR UNDER SLAB ELECTRIC AND PLUMBING LINES. TAKE CARE TO NOT DAMAGE DURING CONSTRUCTION. DAMAGE SHALL BE REPAIRED BY GC OR SUBCONTRACTOR.

H. SITE EXCAVATION: GC SHALL CONTACT LOCAL UTILITIES PRIOR TO ANY SITE EXCAVATION. LOCAL UTILITIES SHALL VISIT SITE TO LOCATE AND MARK UTILITY LINE LOCATIONS. GC SHALL HAVE REPRESENTATIVE PRESENT AT UTILITY MARKING SITE VISITS.

I. AVOID TRENCHING IN GUEST-VISIBLE AREAS WHERE POSSIBLE. LIMIT TRENCHING IN FOH/ DINING AREA.

J. MATCH EXISTING CONCRETE COLORS WHERE POSSIBLE.

K. GENERAL CONTRACTOR TO COORDINATE ALL ELECTRICAL AND PLUMBING LOCATIONS WITH KITCHEN EQUIPMENT PLANS AND SPECIFICATIONS.

L. GC TO PREP EXISTING FLOOR AS NEEDED TO ACCOMMODATE NEW FLOOR FINISH REQUIREMENTS.

M. EXISTING SLAB IS POST-TENSIONED CONSTRUCTION. SCAN ALL PENETRATIONS FOR APPROVAL PRIOR RO CORING.

N. FIRESTOP ALL SLAB PENETRATIONS WITH APPROVED ASSEMBLIES MATCHING THE RATING OF THE EXISTING SLAB.

CODED NOTES

1 ~~EXISTING CONCRETE FLOOR & STRUCTURE TO REMAIN~~

2 POST-TENSIONED SLAB

3 MOP SINK LOCATION

4 ELECTRICAL PANELS, REFER TO ELECTRICAL PLANS

5 LIMIT SLAB WORK BEYOND DASHED LINE

6 EDGE OF NEW RAISED FLOOR

7 PROVIDE NEW STAIRS TO ACCESS THE NEWLY RAISED FLOOR

LEGEND

SYMBOL	DESCRIPTION
-OR-	FLOOR DRAINS - REFER TO DETAIL 1/A-300
-OR-	FLOOR SINKS - REFER TO DETAIL 2/A-300 -OR- ALT 1A/A-300
1'-0" TYP, 6'-0" TYP, 1'-0" TYP	TRENCH DRAIN - REFER TO DETAIL 6/A-300
	WATER CLOSET ROUGH-IN / MOP SINK ROUGH-IN
	PLUMBING STUB-UP
	ELECTRICAL STUB-UP

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PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
B	04/11/2025	ADDENDUM B
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

SLAB WORK PLAN

A-110

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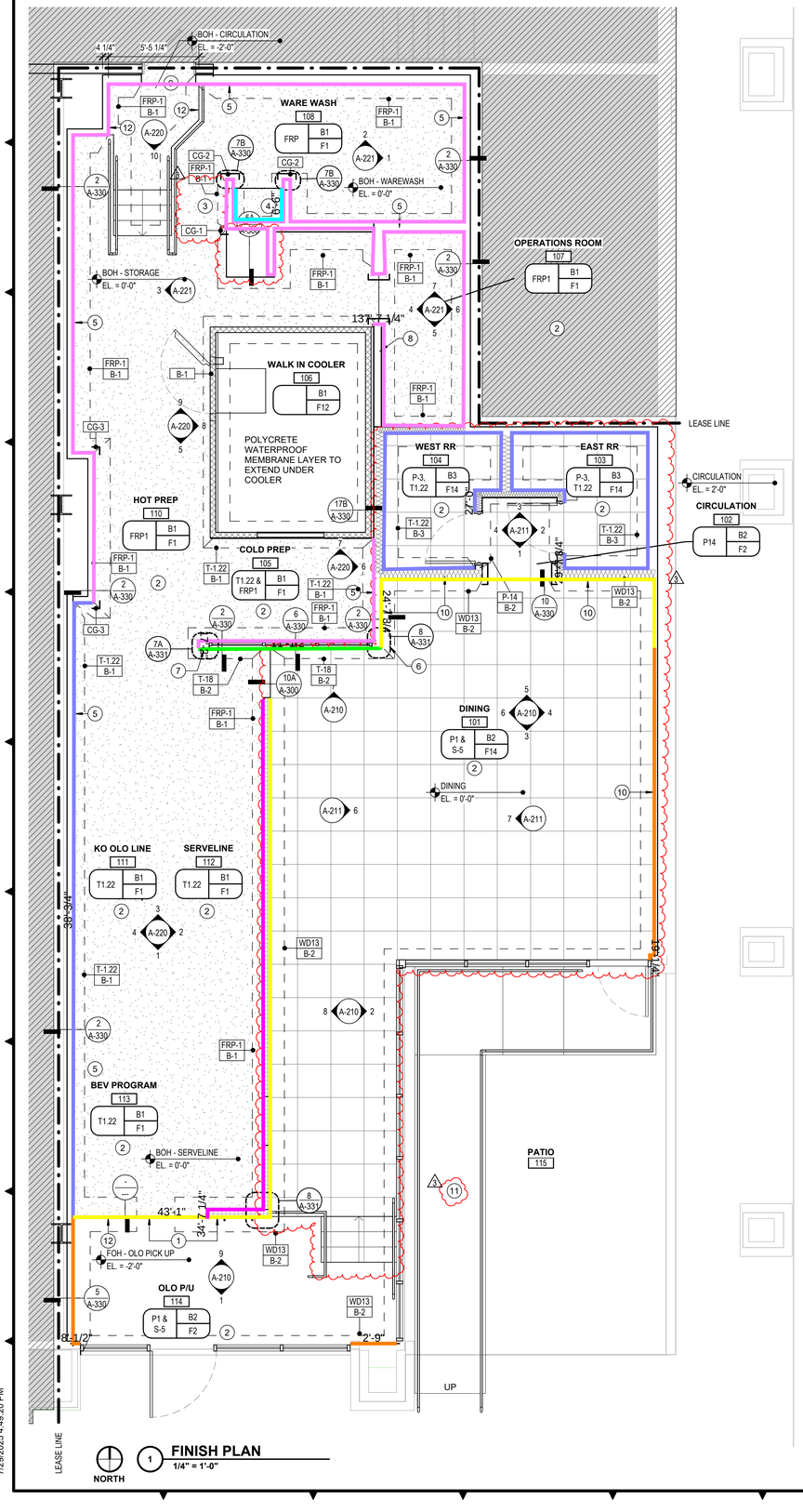

MEODED PLASTER TO 8' AFF (30 LF)

T-18 WALL TILE (105 SF)

T1.22 WALL TILE (553 SF)

MILLWORK WALL PANELS

FRP TO 8' AFF (1,240 SF)

FRP TO 3' AFF (104 SF)

STAINLESS STEEL WALL PANEL TO 2' AFF (13 SF)

GENERAL NOTES

A. WALL, FLOOR AND CEILINGS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN ***CBC/IBC*** CHAPTER 8.

B. ALL DECORATIVE WALL FINISHES & TRIM SHALL COMPLY WITH PROVISIONS OF ***CBC/IBC*** CHAPTER 8.

C. THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY WITH ***CBC/IBC*** SECTION 720.

D. INTERIOR PAINTS, USE EGGSHELL IN CUSTOMER AREAS, SEMI-GLOSS IN EMPLOYEE AREAS, BATHROOMS, AND BOTH TO MEET CLEANING/ HEALTH REQUIREMENTS.

E. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BOARD FINISHES).

F. PAINT INTERIOR HM DOORS AND DOOR FRAMES TO MATCH ADJ. WALL COLOR, UNLESS NOTED OTHERWISE.

G. COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH. COOLER WALL PANELS TO RECEIVE TILE FINISH ARE TO BE PROVIDED WITH A PAINT GRADE FINISH.

H. TILE INSTALL GUIDELINES:
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 MINIMIZE CUT TILES IN THE HORIZONTAL DIRECTION AND ELIMINATE CUT TILES IN THE VERTICAL DIRECTION ON ANY WALLS. 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. REFER TO DETAILS & ELEVATIONS FOR TILE LAYOUT.
3. THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO TILE FINISH DETAILS.
4. SCORE TILES AROUND DRAIN AREA FOR SLOPE.
5. ALIGN TILE BASE AND WALL FIELD TILE VERTICAL GROUT JOINTS WHERE POSSIBLE.
6. TILE INSTALLER TO OPEN ALL BOXES OF HANDMADE AND FEATURE TILE AND MIX BATCHES TOGETHER TO CREATE A BLEND OF VARIATIONS. DO NOT INSTALL TILE FROM A SINGLE BOX AT A TIME.

I. FINISH INDICATES ENTIRE SURFACE U.N.O.

J. ALL FINISHES IN KITCHEN AND RESTROOM AREAS ARE TO BE SMOOTH, DURABLE AND EASILY CLEANABLE.

K. REFER TO FINISH FLOOR PLAN, INTERIOR ELEVATIONS, & ENLARGED DETAILS AND DETAILS FOR VERTICAL APPLICATION OF WALL FINISHES.

L. ALL EDGES OF STAINLESS STEEL (EQUIPMENT, CORNER GUARDS, ETC.) TO BE KNOCKED DOWN TO REMOVE SHARP EDGES AND SEALED WITH SILICONE.

CODED NOTES

1 EDGE OF POLYCRETE TO ALIGN WITH FACE OF WALL

2 REFER TO BASE DETAILS ON A-330

3 CONCRETE PAD FOR EQUIPMENT WITH POLYCRETE BASE, COVE AND TOPPING

4 PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT

5 WATERPROOF MEMBRANE TO EXTEND UP WALLS 12" MIN.

6 FULL HEIGHT STAINLESS CORNER GUARD. REFER TO DETAILS.

7 FULL HEIGHT STAINLESS STEEL ENDCAP. REFER TO DETAILS

8 GALVALUME CLOSURE STRIP BETWEEN WALL AND COOLE

9 PAINT TENANT SIDE OF DOOR TO MATCH ADJACENT WALL FINISH

10 OMITBASE FINISH BEHIND BANQUETTES AS SHOWN

11 RAMP FINISH - SKIM COAT WITH COLOR MATCHING THE PATIO CONCRETE.

12 EDGE OF NEW SLAB

LEGEND

CONTINUATION OF WALL FINISH

FINISH TRANSITION

POLISHED CONCRETE FLOORING

POLYCRETE RESINOUS FLOORING

XX FINISH TAG- SINGLE

P-X SECOND VERTICAL WALL FINISH
T-X FIRST VERTICAL WALL FINISH
B-X BASE FINISH
F-X FLOOR FINISH

TRIM - REFER TO ELEVATIONS AND DETAILS FOR APPLICATION

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	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

FINISH PLAN

A-120

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FINISH SCHEDULE - BASES

SCHEDULE NOTES:

1. QUANTITIES, AREAS AND LINEAL FOOT MEASUREMENTS ARE DERIVED FROM THE DRAWING SOFTWARE AND ARE NOT TO BE USED FOR ORDERING MATERIALS OR EQUIPMENT WITHOUT VERIFICATION. IT IS THE RESPONSIBILITY OF THE GC, SUB-CONTRACTORS, VENDORS AND/OR SWEETGREEN TO VERIFY QUANTITIES PRIOR TO PURCHASING OR AUTHORIZING PURCHASES FOR THE PROJECT. QUANTITIES SHOWN DO NOT TAKE INTO ACCOUNT ANY WASTE OR OVERAGE.

TAG	MANUFACTURER	PRODUCT	DESCRIPTION	SUPPLY	INSTALL	NOTES	LF WALL BASE
BASE							
B2	BY G.C.	20 GA STAINLESS STEEL WALL BASE	4"H W/ #4 LOW GRIT POLISH	GC	GC	INSTALL W/ PREFORMED CORNERS; GENERAL FOH BASE FINISH AND ALL MILLWORK GC TO PROVIDE AND INSTALL ON MILLWORK	0'
B-1	DURAFLEX	POLYCRETE MDB W/ ELAST-O-COAT WATERPROOF MEMBRANE	1/4" CONTINUOUS TEXTURED SAND, COLOR: MATCH F-1	GC	GC	CONTINUOUS COVE WITH 3/8" RADIUS	306'
B-2	BY G.C.	20 GA STAINLESS STEEL WALL BASE	4"H W/ #4 LOW GRIT POLISH	GC	GC	INSTALL W/ PREFORMED CORNERS; GENERAL FOH BASE FINISH AND ALL MILLWORK	48'
B-3	DALTILE	COLOR WHEEL COLLECTION- CLASSIC SANITARY COVE BASE	ARCTIC WHITE 0190 S-3619TN COVE BASE SIZE: 6x6 (6"x6", 3/8" T.)	OWNER	GC	USE GROUT GR-1; RESTROOMS WITH CONCRETE FLOOR; ONLY REQUIRED BY CODE / LOCAL JURISDICTION	56'

FINISH SCHEDULE WITH TAKEOFFS

TAG	MANUFACTURER	PRODUCT	DESCRIPTION	SUPPLY	INSTALL	NOTES	AREA (SF)
CEILING							
CLG-1	BY G.C.	GYPSUM BOARD CEILING	PAINTED GYP CEILING (P-1)	GC	GC	PROVIDE MOISTURE-RESISTANT TYPE 'X' IN KITCHEN AND RESTROOMS; GENERAL DINING CEILING / ABOVE FRONTLINE / KITCHEN IN PUBLIC VIEW / ETC.	
CLG-2.1	USG	CLIMAPLUS 3260 VINYL-LAMINATE FACE GYPSUM PANELS	WHITE SIZE: (2'x2', 1/2" T.)	GC	GC	2'x2'x1/2" PANELS; BOH / WORKROOM AREAS	
FLOOR							
F-2	RETROPLATE	RETROPLATE 99	LEVEL 2 MATTE FINISH (400 GRIT); CHEMICAL ENHANCEMENT AND POLISHING LIQUID	GC	GC	PROVIDE RETROGUARD ACRYLIC SEALANT; EXISTING CONCRETE FLOOR IN GOOD CONDITION (FOH)	
F-12	ECOGRIP	HEAVY DUTY 1/4" CONTINUOUS SHEET VINYL FLOORING	THICKNESS: 1/4" COLOR: PEWTER	GC	GC	FOR USE IN RAISED COOLER FLOOR APPLICATIONS	
F-14	TILEBAR	RIZO CEREN GRAY 24"X24"	WARM GRAY + IVORY COLOR PALETTE, TERRAZZO LOOK PORCELAIN TILE, 24X24" LARGE FORMAT SQUARE	OWNER	GC	3/16" RECOMMENDED GROUT JOINT	761 SF
GROUT							
GR-1	LATICRETE	PERMACOLOR SELECT NS	#78 STERLING SILVER	GC	GC		
GR-2	LATICRETE	PERMACOLOR SELECT NS	#88 SILVER SHADOW	GC	GC		
PAINT							
P1	BENJAMIN MOORE	AURA PAINT (SEE GEN. NOTE D)	SUPER WHITE PM-1	GC	GC	GENERAL WALL & CEILING PAINT	
P14	BENJAMIN MOORE	AURA PAINT	Saybrook Sage BM	GC	GC	GENERAL WALL & CEILING PAINT. FOR RESTROOM VESTIBULE	
P-1	BENJAMIN MOORE	AURA PAINT	SUPER WHITE PM-1	GC	GC	GENERAL WALL & CEILING PAINT	
P-7	BENJAMIN MOORE	AURA EXTERIOR PAINT LOW LUSTRE	CHINA WHITE OC-141	GC	GC	EXTERIOR PAINT	
STUCCO							
S-5	ARDEX	PANDOMO W1	COLOR: PURE 10/3.2 SMOOTH FINISH	GC	GC	ARDEX PANDOMO SL (STONE OIL) SEALER; FEATURE WALL FINISH; CONTACT: BRENT HANSEN - 949.981.9593	
TEXTILE							
TX-1	FAIRFIELD TEXTILES	GOVERNMENT SPEC	COLOR: VAT OD #7 (OLIVE DRAB) #10 DUCK	OWNER	GC	BANQUETTE BACK RESTS	112 SF
TX-2	SUNBRELLA	BLISS ASPEN	PATIO BENCH CUSION TEXTILE	OWNER	GC	BANQUETTE SEAT CUSHION	142 SF
TILE							
T-1.22	DALTILE	2x2 TILE COLOR WHEEL COLLECTION- MOSAIC, SEMI-GLOSS FINISH	COLOR: ARCTIC WHITE 0190 SIZE: 2x2 (2"x2", 1/4" T.)	OWNER	GC	REGULAR STACK BOND USE GROUT GR-1 W/ 1/8" JOINT; KITCHEN TILE; RESTROOM TILE	630 SF
T-18	CLE	4x4 TILE COLLECTION: ZELLIGE GLOSS FINISH, GLAZED	COLOR: PARCHED VELLUM SIZE: 4x4 (4"x4", 3/8" T.)	OWNER	GC		102 SF
TRIM							
CG-1	BY G.C.	20 GA STAINLESS STEEL CORNERGUARD	#4 LOW GRIT POLISH	GC	GC	FULL HEIGHT FROM T.O. BASE TO CLG/SOFFIT	
CG-2	BY G.C.	20 GA STAINLESS STEEL WALL CAP	#4 LOW GRIT POLISH	GC	GC	FULL HEIGHT FROM T.O. BASE TO CLG/SOFFIT	
CG-3	MARLITE	WHITE - RIGID EXTRUDED PVC	PVC WALL CORNERGUARD	GC	GC	FULL HEIGHT FROM T.O. BASE TO CLG/SOFFIT	
WALL COVERING							
FRP-1	MARLITE	STANDARD FRP	P100 WHITE PEBBLED SURFACE	GC	GC	PROVIDE PVC TRIM PIECES NO HORIZONTAL SEAMS PERMITTED; BACK OF HOUSE	
WOOD							
WD13	CUSTOM DISTRICT MILLWORK	PLYWOOD	3/8" DOUGLAS FIR PLYWOOD	OWNER	GC	MATTE CLEAR POLYURETHANE FINISH; MILLWORK TO PROVIDE SAMPLE TO DESIGN FOR APPROVAL	1,420 SF

DATA DEVICE SCHEDULE- "D"

SCHEDULE NOTES:

1. SCHEDULE QUANTITIES ARE DERIVED FROM THE DRAWING SOFTWARE AND ARE NOT TO BE USED FOR ORDERING OF MATERIALS OR EQUIPMENT WITHOUT VERIFICATION. IT IS THE RESPONSIBILITY OF THE GC, SUB-CONTRACTORS, VENDORS AND/OR SWEETGREEN TO VERIFY QUANTITIES PRIOR TO PURCHASING OR AUTHORIZING PURCHASES FOR THE PROJECT. QUANTITIES SHOWN DO NOT TAKE INTO ACCOUNT ANY WASTE OR OVERAGE.
2. CUSTOM SCHEDULE ITEMS ARE NOTED WITH AN "X" PREFIX
3. COORDINATE ELECTRICAL & MECHANICAL IT RACK REQUIREMENTS WITH ENGINEER.

TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	DATA	SUPPLY	INSTALL	REMARKS
100- MONITORS AND COMPUTERS								
D 101	1	POS TERMINAL	BY OWNER	BY OWNER	•	OWNER	OWNER	
D 110	2	ORDER MONITOR	BY OWNER	BY OWNER	•	OWNER	OWNER	
D 121	1	THERMAL LABEL PRINTER	ZEBRA	ZD4AAD	•	OWNER	OWNER	
D 125	1	OVEN SCHEDULE IPAD	BY OWNER	BY OWNER	•	OWNER	GC	
D 130	1	DESKTOP COMPUTER	BY OWNER	BY OWNER	•	OWNER	GC	
D 141	1	SECURITY CONTROL TABLET	SOLINK / MASON	G450 TABLET WITH CASE	•	OWNER	GC	
200- PRINTERS								
D 200	1	RECEIPT PRINTER- POS	BY OWNER	BY OWNER	•	OWNER	OWNER	
D 201	3	CREDIT CARD READER - POS	BY OWNER	BY OWNER	•	OWNER	OWNER	
D 202	3	PRESENTATION SCANNER - POS	BY OWNER	BY OWNER	•	OWNER	OWNER	
D 210	2	RECEIPT PRINTER - OLO LINE	BY OWNER	BY OWNER	•	OWNER	OWNER	
D 230	1	DESKTOP PRINTER	BY OWNER	BY OWNER	•	OWNER	OWNER	
300- IT MANAGEMENT								
D 325	1	42U SMARTRACK SHALLOW-DEPTH RACK ENCLOSURE CABINET	TRIPP-LITE	SR42UBSD1032		OWNER	GC	
D 350	1	TABLET CHARGING STATION (A)	LUXOR	LLTMW8-G		OWNER	GC	
400- SYSTEM CONTROLS								
D 402	4	DIGITAL MENUBOARD SCREEN - 46"	BY OWNER	BY OWNER		OWNER	GC/OWNER	GC TO PROVIDE SUPPORTS AND INSTALL DATA/ELECTRICAL PER PLANS. OWNER VENDOR TO INSTALL MENUBOARDS AND PROVIDE FINAL CONNECTIONS. VERIFY EXACT MODEL NUMBER AND FINAL SOFFIT RECESS DIMENSIONS REQUIRED WITH OWNER VENDOR.
500- AUDIO SYSTEM								
D 571	2	INTERIOR COMPONENT SPEAKER - WHITE	JBL AUDIO	CONTROL 25-1-WH		OWNER	GC	
600- SECURITY								
D 600	15	HEMISPHERE SECURITY CAMERA	BY OWNER	BY OWNER	•	OWNER	GC	CONFIRM ALL LOCATIONS WITH OWNER PRIOR TO INSTALL

sg

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3102 WEST 36TH STREET
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PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/29/2025	PERMIT AMENDMENT
5	09/26/2025	BULLETIN 02

SCHEDULES - DATA, FINISH & LIGHTING

A-121

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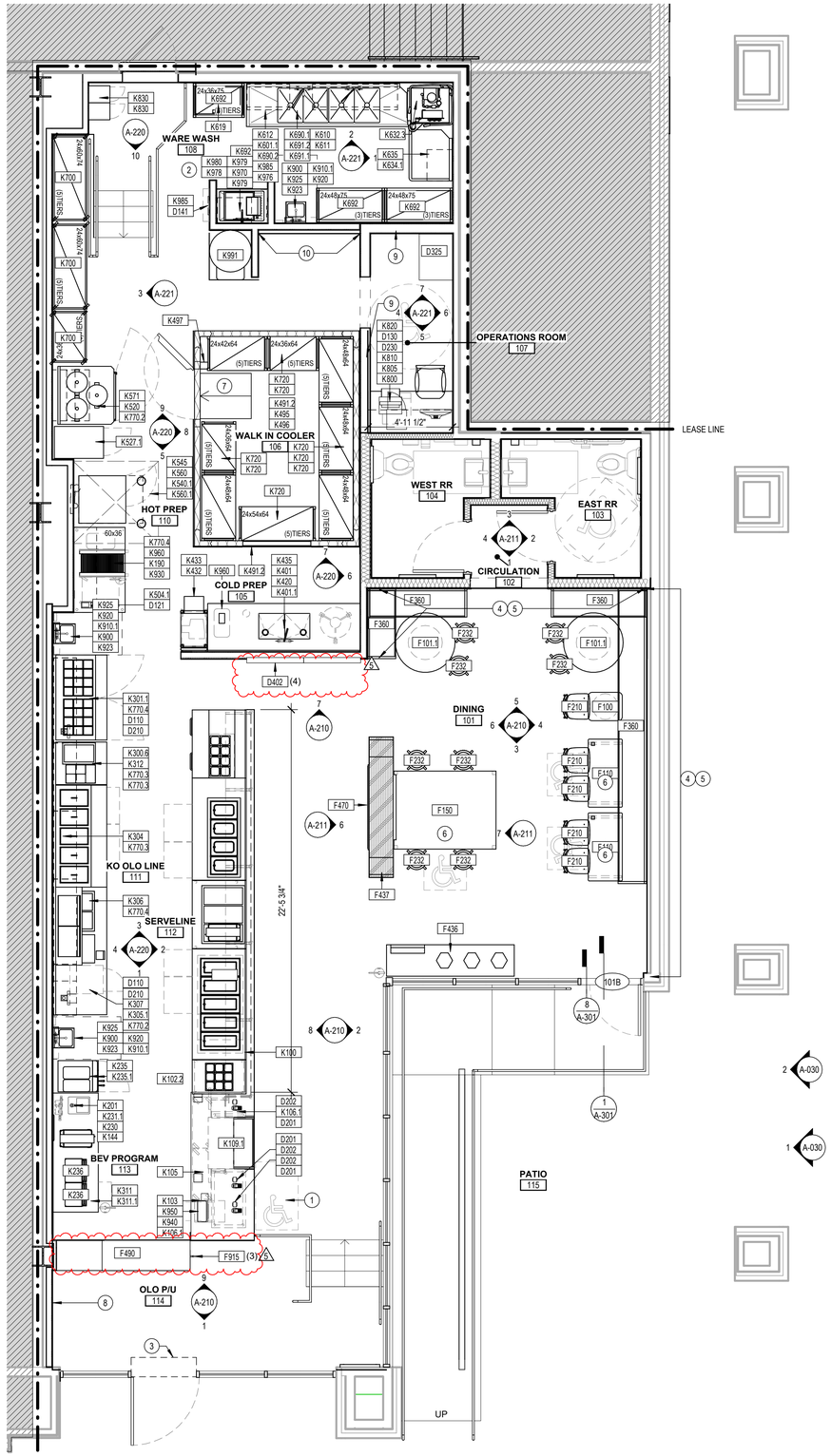

1 EQUIPMENT & FURNITURE PLAN
1/4" = 1'-0"

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GENERAL NOTES

A. GC TO COORDINATE EQUIPMENT WITH UNDERGROUND PLUMBING. GC TO NOTIFY ARCHITECT AND SWEETGREEN OF ANY DISCREPANCIES OR CONFLICTS.

B. REFER TO KITCHEN EQUIPMENT SCHEDULE FOR EQUIPMENT SPECIFICATIONS.

C. REFER TO FURNITURE SCHEDULE FOR FINAL FURNITURE PIECE COUNTS. NOT ALL UNITS MAY BE REFLECTED ON THE DRAWING.

D. GC TO PROVIDE CAULKING AT EQUIPMENT.

E. REFER TO ENLARGED RESTROOM PLAN SHEET FOR EQUIPMENT AND ACCESSORY SCHEDULE FOR RESTROOM ITEMS.

F. KES TO INSTALL COOLER MANUFACTURER SUPPLIED AIR CURTAIN INSIDE COOLER DOOR.

G. GC TO SUPERVISE INSTALLATION OF VENDOR INSTALLED ITEMS FOR PROPER INSTALLATION PER EQUIPMENT PLAN.

H. ALL EQUIPMENT MUST BE CERTIFIED OR CLASSIFIED FOR SANITATION BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED CERTIFICATION PROGRAM OR AN NSF ACCREDITED TESTING AGENCY.

I. REFER TO PATIO PLAN AND FURNITURE FOR DETAILS.

J. REFER TO KITCHEN EQUIPMENT SCHEDULE FOR DETAILS.

K. REFER TO SIGNAGE SCHEDULE FOR DETAILS.

L. REFER TO DATA DEVICE SCHEDULE FOR DETAILS.

CODED NOTES

1 ACCESSIBLE TRANSACTION COUNTER. MIN. 36" LENGTH AT 34" AFF. CLEAR FLOOR SPACE IN FRONT OF COUNTER TO BE MIN. 30"x 48" FOR SIDE APPROACH.

2 WATER HEATER, REFER TO PLUMBING PLANS AND SCHEDULE FOR ADDITIONAL INFORMATION

3 AIR CURTAIN CENTERED ABOVE DOOR

4 BANQUETTE SEATING, REFER TO DETAILS FOR CONSTRUCTION

5 REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS AT BANQUETTES

6 ACCESSIBLE DINING TABLE

7 WALKIN COOLER TO BE PROVIDED WITH INSULATED FLOOR PANEL AND INTERIOR RAMP

8 PROVIDE BLOCKING IN WALL FOR ARTWORK AND EQUIPMENT PER PLANS, REFER TO ELEVATIONS FOR LOCATIONS

9 <varies>

10 FOR ELECTRICAL EQUIPMENT LOCATION, REFER TO ELECTRICAL DRAWINGS

SHELVING SCHEDULE

TAG	QTY.	DESCRIPTION	DIMENSIONS DEPTH	WIDTH	HEIGHT	TIERS	AREA	LINEAR FEET
K 979	2	WALL MOUNT WIRE SHELVING- EPOXY COATED	18"	24"	63"	1	6 SF	4
							26 SF	**11.5**

SHELVING SCHEDULE

TAG	QTY.	DESCRIPTION	DIMENSIONS DEPTH	WIDTH	HEIGHT	TIERS	AREA	LINEAR FEET
WET STORAGE								
K 690.1	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	14"	30"	63"	1	3 SF	0
K 690.2	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	18"	30"	63"	1	4 SF	2.5
K 691.1	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	14"	60"	63"	1	6 SF	0
K 691.2	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	18"	60"	63"	1	8 SF	5

FURNITURE SCHEDULE - "F"

FURNITURE SCHEDULE NOTES:

1. QUANTITIES SHOWN ARE DERIVED FROM THE DRAWING SOFTWARE AND ARE NOT TO BE USED FOR ORDERING MATERIALS OR EQUIPMENT SIWHTOUT VERIFICATION. IT IS THE RESPONSIBILITY OF THE GC, SUB-CONTRACTORS, VENDORS AND/OR SWEETGREEN TO VERIFY QUANTITIES PRIOR TO...

2. CONTRACTOR TO VERIFY MODEL NUMBERS WITH FURNITURE SPECIFICATIONS. ANY DISCREPANCIES BETWEEN MODEL NUMBER AND DESCRIPTION ARE TO BE DISCUSSED WITH ARCHITECT.

TAG	QTY.	MANUFACTURER	DESCRIPTION	MODEL	SUPPLY	INSTALL	REMARKS
100- TABLES							
F 100	1	MILLWORK	DINING TABLE 20"x24"x30"H WITH ROUND PEDESTAL BASE	CUSTOM	OWNER	GC	
F 101.1	2	MILLWORK	DINING TABLE ROUND 42"x30"H WITH ROUND PEDESTAL BASE	CUSTOM	OWNER	GC	
F 110	2	MILLWORK	ADA ACCESSIBLE TABLE 24"x 48"- WHITE OAK, SEMI-GLOSS CLEAR COAT	CUSTOM	OWNER	GC	
F 150	1	MILLWORK	COMMUNITY TABLE - PARSONS STYLE. WHITE OAK, SEMI-GLOSS CLEAR COAT	CUSTOM- SIZE PER PLANS	OWNER	GC	
200- SEATING							
F 210	5	HAY	DINING CHAIR, WOODEN SEAT WITH BLACK LEGS	RESULT CHAIR	OWNER	GC	GC TO ASSEMBLE AND PLACE ALL CHAIRS PER PLANS
F 232	8	EMECO	ZA SMALL STOOL - HAND BRUSHED	ZA STOOL, HEIGHT 18 3/4"- ZA18	OWNER	GC	
300- BANQUETTES							
F 360	4	MILLWORK	CUSTOM BANQUETTE, TX-1 FOR BACK RESTS	CUSTOM	OWNER	GC	GC TO ASSEMBLE AND INSTALL PER PLANS. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS
400- FABRICATION							
F 436	1	CUSTOM DISTRICT	CUSTOM BUSSING STATION	CUSTOM	OWNER	GC	GC TO ASSEMBLE AND INSTALL PER PLANS. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS
F 437	1	CUSTOM DISTRICT	CUSTOM SHELVING AT DINING	CUSTOM	OWNER	GC	GC TO ASSEMBLE AND INSTALL PER PLANS. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS
F 453	1	MILLWORK	CUSTOM OLO PICKUP SHELVING	CUSTOM	OWNER	GC	GC TO ASSEMBLE AND INSTALL PER PLANS. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS
F 470	1	OLDE GOOD THINGS	LOCAL LIST BOARD	CUSTOM, LOCAL 3'X5' PORTRAIT	OWNER	GC	GC TO PROVIDE BLOCKING
F 480	1	CUSTOM DISTRICT	CORE VALUES BOARD	CUSTOM CORE 1.5'X2' PORTRAIT, MIN 5'-0" AFF	OWNER	GC	GC TO PROVIDE BLOCKING
F 490	1	BY OWNER	OLO SIGN BOX- WOODEN	BY OWNER	OWNER	GC	
F 499	6	IDX	CUSTOM DOOR PUSH / PULL - BLACK	SGA40020	OWNER	GC	
900- MISC							
F 915	3	CUSTOM DISTRICT	BAG HOOK	CUSTOM	OWNER	GC	GC TO PROVIDE BLOCKING AS REQUIRED FOR INSTALLATION

sg

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SG CONSTR. MANAGER:	MC
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TEMPLATE VERSION:	2401

REVISIONS

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5	09/26/2025	BULLETIN 02

EQUIPMENT & FURNITURE PLAN

A-130

KITCHEN EQUIPMENT SCHEDULE- "K"

SCHEDULE NOTES:

1. SCHEDULE QUANTITIES ARE DERIVED FROM THE DRAWING SOFTWARE AND ARE NOT TO BE USED FOR ORDERING MATERIALS OR EQUIPMENT WITHOUT VERIFICATION. IT IS THE RESPONSIBILITY OF THE GC, SUB-CONTRACTORS, VENDORS AND/OR SWEETGREEEN TO VERIFY QUANTITIES PRIOR TO PURCHASING OR AUTHORIZING PURCHASES FOR THE PROJECT. QUANTITIES SHOWN DO NOT TAKE INTO ACCOUNT ANY WASTE OR OVERAGE.

TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	ELECTRICAL			PLUMBING	WASTE			RESPONSIBILITIES		REMARKS	TAG
					ELEC.	NEMA	DIRECT	GAS	WATER	DIRECT	INDIRECT	SUPPLY	INSTALL		
100- SERVELINE															
K 100	1	COUNTERTOP	FABRICATION SPECIALISTS	CUSTOM								KES	KES		K100
K 102.2	2	SNEEZEGUARD GLASS & FRAME	PMG	CUSTOM								KES	KES		K102.2
K 103	1	STAINLESS CASH CUP UNDERCOUNTER ASSEMBLY	FABRICATION SPECIALISTS	CUSTOM								KES	KES		K103
K 105	2	STAINLESS MOBILE MIXING BOWL CART	FABRICATION SPECIALISTS	37.125"Wx13"Dx33"H								KES	KES		K105
K 106.1	1	POS COUNTERTOP BASE	FABRICATION SPECIALISTS	CUSTOM	•	5-15R	•					KES	KES		K106.1
K 109.1	1	36-1/4" REFRIGERATED UNDERCOUNTER SELF SERVICE CASE	STRUCTURAL CONCEPTS	CO33R-UC	•	5-15P						KES	KES		K109.1
K 110.1	1	S/S CRUNCH TABLE, 24"x 38" WITH CUTOUT AND S/S 6-1/2" DEEP AMBIENT PAN	FABRICATION SPECIALISTS	24"Wx38"Dx34"H CUSTOM								KES	KES		K110.1
K 120.1	1	STAINLESS PROTEIN TABLE	FABRICATION SPECIALISTS	48"Wx38"Dx34"H CUSTOM								KES	KES	PROTEIN S/S TABLE W/ CUT OUT FOR HOT WELL DROP IN AND CONTROL PANEL	K120.1
K 121.1	1	HOT FOOD DROP-IN WELL	ALTO-SHAAM	300-HWI/D643	•	L5-30P						KES	KES		K121.1
K 130.1	1	5-PAN REFRIGERATED WORKTOP TABLE - SERVELINE TOPPINGS - 78" WIDE	DELFIELD	18MC78P	•	(2) 5-15P						KES	KES	78" LONG FREE STANDING UNIT	K130.1
K 141.3	1	REFRIGERATED MEGATOP - SERVELINE SALAD BASES	DELFIELD	000-20112QVD1	•	5-15P						KES	KES	72" LONG FREE STANDING UNIT	K141.3
K 143.1	1	SANDWICH / SALAD PREP REFRIGERATOR	CONTINENTAL	SW48N8	•	5-15P						KES	KES	SANDWICH UNIT 48"W, 13.4 CU FT. CAPACITY	K143.1
K 143.2	1	SS FILLER SHELF - 48"	FABRICATION SPECIALISTS	SS FILLER SHELF - 48"								KES	KES		K143.2
K 144	2	FRY WARMER	HATCO	GRFFB	•	5-15P						KES	KES		K144
K 190	1	MOBILE PREP CART 18x30	METRO	MS1830PRPR								KES	KES		K190
200- BEVERAGE															
K 200.2	1	STAINLESS BEVERAGE COUNTER	FABRICATION SPECIALISTS	CUSTOM 32"Dx36"Hx84"W STAINLESS CABINET WITH DOORS								KES	KES		K200.2
K 201	1	RECESSED DRIP PAN	CRYSALLI	RDP-1SSQ-1CL-SG							•	KES	KES		K201
K 230	1	GLASS FILLER	FISHER	12513					•		•	KES	KES		K230
K 231.1	1	HIGH CAPACITY WATER FILTER SYSTEM	CRYSALLI	CR-24FC					•			KES	KES		K231.1
K 235	1	SOFT SERVE MACHINE	STOELTING	F131-3812	•	6-20P						KES	KES	SOFT SERVE MACHINE - AIR COOLED	K235
K 235.1	1	FROYO MACHINE STAND	STOELTING	FS2								KES	KES	SOFT SERVE MACHINE EQUIPMENT STAND	K235.1
K 236	2	BEVERAGE DISPENSER DOUBLE BOWL	GRINDMASTER-CECILWARE	D25-3	•	5-15P	•				•	KES	KES		K236
300- OLO PREP															
K 300.6	1	HOT FOOD WELL UNIT, DROP-IN, ELECTRIC	ALTO-SHAAM	100-HW/D6	•	5-15P						KES	KES		K300.6
K 301.1	1	MEGA TOP SANDWICH / SALAD PREPARATION REFRIGERATOR	DELFIELD	4460NP-24M-A5	•	5-15P						KES	KES		K301.1
K 304	1	5 PAN REFRIGERATOR WITH DRAWERS - 72" WIDE	DELFIELD	000-201128TRS	•	5-15P						KES	KES		K304
K 305.1	1	CUSTOM SS OLO SERVELINE PACKING TABLE W/ HOT + COLD WELLS, CRUNCH, BAG RACK, COMP4RT	DELFIELD	000-20113RVE1	•	5-15P						KES	KES	WITH INTEGRATED DELFIELD 8148-EFNP COLD FOOD WELL	K305.1
K 306	1	WATERLESS HOT FOOD WELL	ALTO-SHAAM	200-HW/D6	•	5-15P						KES	KES		K306
K 307	1	UNDERCOUNTER REFRIGERATOR	BEVERAGE-AIR	UCR20HC	•	5-15P						KES	KES		K307
K 309.1	1	WALL-MOUNTED CUSTOM STAINLESS SHELVING	FABRICATION SPECIALISTS	16"Dx24"L WITH UPPER SUPPORT BRACKETS								KES	KES	GC TO PROVIDE BLOCKING	K309.1
K 309.2	1	WALL-MOUNTED CUSTOM STAINLESS SHELVING	FABRICATION SPECIALISTS	16"Dx60"L WITH UPPER SUPPORT BRACKETS								KES	KES		K309.2
K 311	1	NUGGET ICE MAKER W/ BIN	MANITOWOC	UNP-0200A	•	5-15P	•		•		•	KES	KES	FW FROM ITEM K311.1, WATER FILTER. GC TO INSTALL W/ WATER FILTER K311.1	K311
K 311.1	1	ICE MACHINE FILTER	PENTAIR	EVERPURE EV9324-01					•			KES	KES		K311.1
K 312	1	CUSTOM STAINLESS WORKTABLE WITH CUTOUTS FOR 1 HOT WELL AND 1 AMBIENT PAN	FABRICATION SPECIALISTS	30"Wx36"Hx36"D CUSTOM STAINLESS WORKTABLE								KES	KES		K312
400- COLD PREP															
K 401	1	CUSTOM STAINLESS COLD PREP TABLE WITH INTEGRATED 2 COMP SINK - LIL KITCH	FABRICATION SPECIALISTS	CUSTOM - SIZE PER PLANS							•	KES	KES		K401
K 401.1	1	DECK MOUNT FAUCET	T&S BRASS	B-0220-LN					•			KES	GC	INCLUDED WITH 2 COMP PREP TABLE	K401.1
K 420	1	SALAD DRYER	DELFIELD	SALD-1	•	5-15P	•					KES	KES		K420
K 432	1	STAINLESS FOOD PROCESSOR CART	ROBOT COUPE	R199								KES	KES		K432
K 433	1	FOOD PROCESSOR- BENCHTOP / COUNTERTOP	ROBOT COUPE	CL52E	•	5-15P	•					KES	KES	20 AMP DEDICATED BREAKER	K433
K 435	1	IMMERSION BLENDER	BY OWNER	BY OWNER	•							OWNER	OWNER		K435
K 491.2	1	WALKIN COOLER WITH DISPLAY WINDOWS, INSULATED FLOOR PANEL AND RAMP	KOLPAK	CUSTOM								KES	KES	GC TO PROVIDE J-BOX FOR OVERHEAD LIGHTING, DOOR LIGHT AND AIRSHIELD. GC TO SEAL ALL PENETRATIONS (SPRINKLERS, ETC). 4 " THICK NOMINAL PANEL, METAL FINISH INTERIOR AND EXTERIOR 26 GA EMBOSSED GALVALUME	K491.2
K 495	1	WALK-IN COOLER EVAPORATOR COIL	KOLPAK	CUSTOM	•		•				•	KES	KES/GC	KES TO MOUNT UNIT. GC TO CONNECT ELECTRICAL, PROVIDE DISCONNECT AT COIL FOR SERVICE. GC TO RUN DRAIN LINE OUTSIDE OF COOLER BOX TO FLOOR DRAIN. PROVIDE P-TRAP.	K495
K 496	1	WALK-IN COOLER REMOTE CONDENSER	KOLPAK	CUSTOM	•		•				•	KES	KES/GC	KES TO MOUNT UNIT. GC TO CONNECT ELECTRICAL. GC TO PROVIDE SUPPORT CURBS IF NOT ON TOP OF WALK-IN BOX.	K496
K 497	1	WALK-IN COOLER AIR CURTAIN	KOLPAK	AIRSHIELD	•		•					KES	GC/KES	GC ELECTRICIAN TO MAKE FINAL CONNECTION	K497
500- HOT PREP															
K 504.1	1	UNDER COUNTER FL3"/5 PANS MOBILE CART	CHANNEL	MOBILE WORK TABLES 432A								KES	KES		K504.1
K 520	3	RICE / GRAIN COOKER - 37 CUP CAPACITY	TOWN	57137	•	5-20P						KES	KES		K520
K 527.1	1	HEATED LOW TEMP HOLDING CABINET	ALTO-SHAAM	1000-UP	•	5-15P						KES	KES		K527.1
K 540.1	2	COMBI OVEN (ELECTRIC). ORDER WITH FACTORY RIGHT HINGE	RATIONAL	ICP 6-HALF E 208/240V 3 PH (LM100BE)	•	15-50P					•	KES	KES	GW FROM ITEM #K545. WATER FILTER. ELECTRICIAN TO PROVIDE AND INSTALL CORD & PLUG (15-50)	K540.1
K 545	2	COMBI OVEN WATER FILTRATION SYSTEM	EVERPURE	EV979740					•			KES	KES		K545
K 547	1	COMBI-DUO MOBILE W/ CASTERS	RATIONAL	STAINLESS STEEL STAND								KES	KES		K547
K 560	1	VENTLESS EXHAUST SYSTEM	RATIONAL	ULTRAVENT 60.76.177	•	5-15P						KES	KES		K560
K 560.1	1	TYPE 2 HOOD	CAPTIVEAIRE	6012 VHB	•		•					GC	GC		K560.1
K 561.5	1	BLAST CHILLER/SHOCK FREEZER, REACH-IN. FACTORY HINGE RIGHT	IRINOX USA	EASYFRESH NEXT SL	•	L6-15P						KES	KES	ELECTRICIAN TO PROVIDE AND INSTALL CORD & PLUG (L6-15).	K561.5
K 571	1	SS BLAST CHILLER TOP	FABRICATION SPECIALISTS	CUSTOM - 39-1/2"Dx41"W								KES	KES		K571
600- WAREWASHING															
K 601.1	1	4 COMP STRAIGHT SINK W DRAINBOARDS. LEFT SIDE DIRTY, RIGHT SIDE DISHWASHER	JOHN BOOS & CO	CUSTOM							•	KES	KES	IW QTY: 4	K601.1
K 610	1	SPLASH MOUNT FAUCET WITH LIVE SWIVEL SPRAY VALVE	T&S BRASS	B-0133-B					•			KES	KES		K610
K 611	1	ADD ON FAUCET, FOR PRE RINSE FAUCET	T&S BRASS	B-0156					•			KES	KES		K611
K 612	1	SPLASH MOUNT FAUCET	T&S BRASS	B-2299					•			KES	KES		K612
K 615	4	ROTARY WASTE VALVE	FISHER	22209								KES	GC		K615
K 619	1	HEATED SOAK TANK SYSTEM	FOG TANK	STANDARD 40 GAL	•	5-15P						KES	KES		K619
K 632.3	1	DISHMACHINE - CORNER VENTLESS SPEC	AUTO-CHLOR	A5 VRX	•				•		•	OWNER	KES	PROVIDE WITH VRX TECHNOLOGY	K632.3
K 634.1	1	CLEAN DISHTABLE	JOHN BOOS & CO	JDTC-20-36R								KES	KES		K634.1
K 635	1	DISHRACK SORTING SHELF	JOHN BOOS & CO	BHS1822-TS-X								KES	KES		K635
K 690.1	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	METRO	NK3 SERIES								KES	KES	14"x 30" BOTTOM TIER, 18"x 30" TOP TIER	K690.1
K 690.2	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	METRO	NK3 SERIES								KES	KES	14"x 30" BOTTOM TIER, 18"x 30" TOP TIER	K690.2
K 691.1	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	METRO	NK3 SERIES								KES	KES	14"x 60" BOTTOM TIER, 18"x 60" TOP TIER	K691.1
K 691.2	1	WALL MOUNT WIRE SHELVING- EPOXY COATED	METRO	NK3 SERIES								KES	KES	14"x 60" BOTTOM TIER, 18"x 60" TOP TIER	K691.2
K 692	3	DISH DRYING RACKS	CAMBRO	ELEMENT SERIES								KES	KES		K692
700- STORAGE SHELVING															
K 700	3	FLOOR MOUNTED WIRE SHELVING- CHROME	METRO	BR SERIES								KES	KES	74" POSTS, SIZE PER PLANS	K700
K 720	8	FLOOR MOUNT MODULAR SHELVING- PLASTIC	CAMBRO	ELEMENT SERIES								KES	KES	SIZE PER PLANS	K720
K 770.2	3	WALL-MOUNTED STAINLESS SHELVING	JOHN BOOS & CO.	EWS8-1636								KES	KES	GC TO SUPPLY BLOCKING	K770.2
K 770.3	4	WALL-MOUNTED STAINLESS SHELVING	JOHN BOOS & CO.	EWS8-1648								KES	KES	GC TO SUPPLY BLOCKING	K770.3
K 770.4	4	WALL-MOUNTED STAINLESS SHELVING	JOHN BOOS & CO.	EWS8-1660								KES	KES	GC TO SUPPLY BLOCKING	K770.4
800- OFFICE															
K 800	1	MANAGER'S DESK	CUSTOM	BY GC								GC	GC	REFER TO DETAILS FOR CONFIGURATION	K800
K 805	1	OFFICE TASK CHAIR	BY OWNER	BY OWNER								OWNER	GC		K805
K 810	1	MANAGER'S DESK SHELVING	CUSTOM	BY GC								GC	GC	REFER TO DETAILS FOR CONFIGURATION	K810
K 820	1	CASH MANAGEMENT SAFE	AMSEC	CASHWIZARD BR3120								OWNER	OWNER		K820
K 830	2	EMPLOYEE LOCKERS	CUSTOM	BY OWNER								OWNER	GC	WALL MOUNTED W/ 6" CLEARANCE MIN. FROM FLOOR	K830
900- MISC.															
K 900	3	WALL HUNG HAND SINK WITH SKIRT	GLASTENDER, INC.	WHS-14-S-LF						•		KES	KES	GC TO PROVIDE BLOCKING	K900
K 910.1	3	HANDSINK DECK MOUNT FAUCET	T&S BRASS	B-1141					•			KES	GC		K910.1
K 920	5	AUTOMATIC FOAM SOAP DISPENSER- SURFACE MOUNT	ASI	20365								GC	GC		K920
K 923	3	SURFACE MOUNT PAPER TOWEL DISPENSER	ASI	0210								GC	GC		K923
K 925	9	WALL MOUNT GLOVE DISPENSER-STAINLESS STEEL	SAN JAMAR	G0801								OWNER	GC		K925
K 930	1	STAINLESS PREP TABLE	FABRICATION SPECIALISTS	SIZE(S) PER PLANS								KES	KES		K930
K 940	1	CASH DRAWER - 13.1"x13.1"x4.3"H	VASARIO	VB320-1-AW1313-B27								OWNER	OWNER		K940
K 950	1	UNDERCOUNTER CUP DISPENSER	SAN JAMAR	C2902								KES	KES		K950
K 960	2	SLIM JIM TRASHCAN	RUBBERMAID	FG354060BEIG								OWNER	OWNER		K960
K 970	1	36"x 24" MOP SINK	ZURN	Z1996-36						•		GC	GC		K970
K 976	1	MOP HOLDER	ALL POINTS	72-1244								KES	KES	GC TO PROVIDE BLOCKING	K976
K 978	1	MOP BUCKET WITH WRINGER	LAVEX	274MOPBCKTYE								OWNER	OWNER		K978
K 979	2	WALL MOUNT WIRE SHELVING- EPOXY COATED	METRO	NK3 SERIES								KES	KES	18"x 24"	K979
K 980	1	FAUCET-SERVICE SINK	T&S BRASS	B-0665-BSTR					•			KES	GC		K980
K 985	2	FLYLIGHT	SYNERGETIC	HALO 30	•	5-15P						OWNER	GC		K985
K 991	1	GAS WATER HEATER	SEE PLUMBING SCHED.	SEE PLUMBING SCHED.	•		•	•	•		•	GC	GC		K991

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PLAZA MIDWOOD

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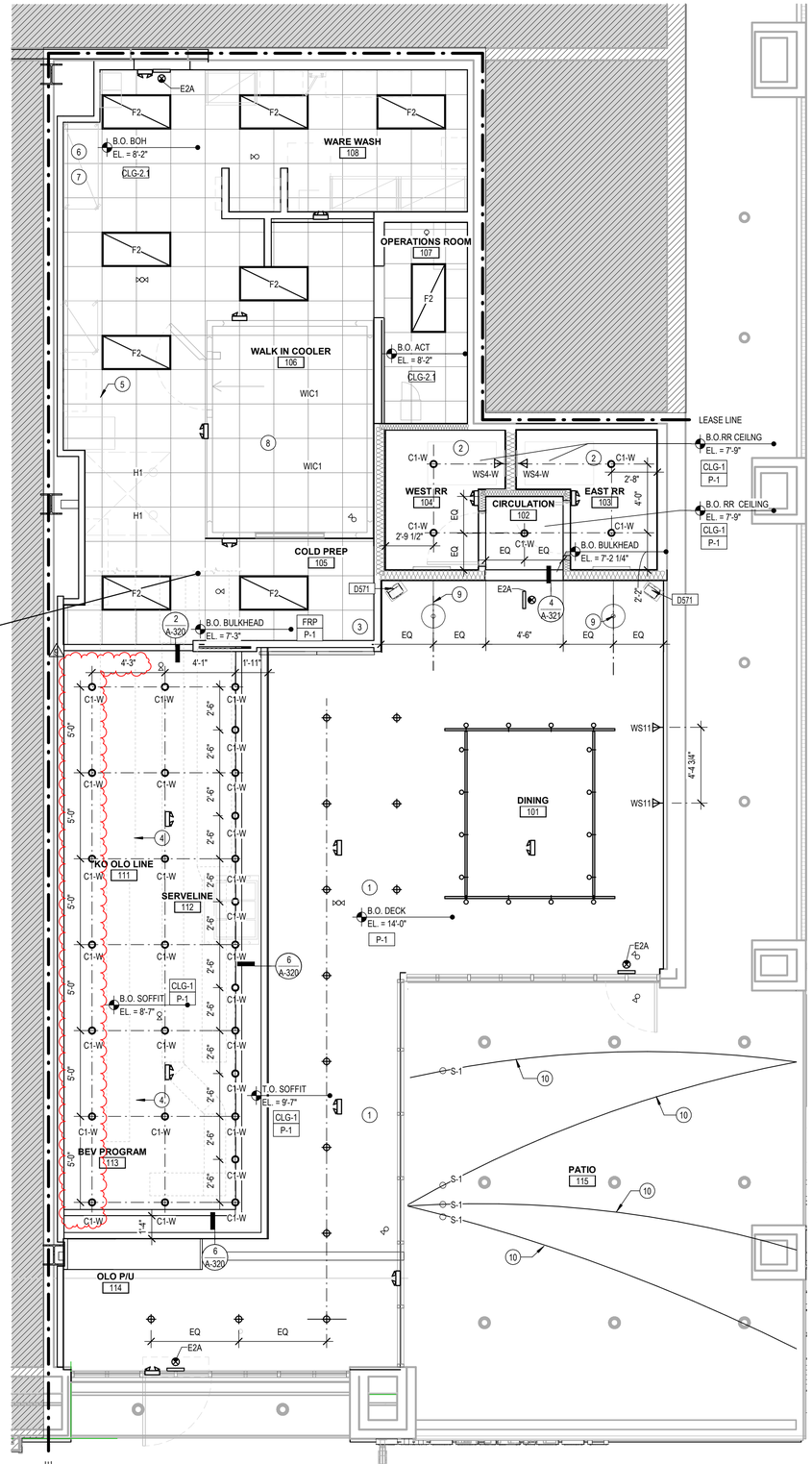
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

SCHEDULE - KITCHEN EQUIPMENT

A-131



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

GENERAL NOTES

A. CEILING HEIGHT DIMENSIONS ARE FROM DESIGNATED FINISH FLOOR SURFACES TO THE FINISHED CEILING SURFACE UNLESS NOTED OTHERWISE.

B. REFER TO FINISH LIST FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET.

C. ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND / OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.

D. ALL DIMENSIONS ARE TO FACE OF WALL, SOFFIT, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.

E. FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN.

F. SOUND BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.

G. SUB-CONTRACTOR TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS WITH ARCHITECT VIA SHOP DRAWINGS. SPRINKLER HEADS TO BE CENTERED BETWEEN LIGHTS IN ALL LOCATIONS. SPRINKLER HEADS ABOVE STORAGE SHELVING SHALL BE PROVIDED WITH PROTECTIVE CAGES.

H. ALL CEILING ACCESS PANELS LARGER THAN 12"x 12" TO BE MUD-IN STYLE INTEXFORMS APS24X24. ALL CEILING ACCESS PANELS SMALLER THAN 12"x 12" TO BE FLANGED STEEL TYPE.

I. ALL CEILING FIXTURES AND ACCESSORIES TO ALIGN WITH CENTER OF LIGHTING FIXTURES, CEILING TILES OR OTHER CEILING ELEMENTS WHERE POSSIBLE.

J. PHOTOMETRIC VALUES IN ALL AREAS TO MEET OR EXCEED LOCAL CODE REQUIREMENTS.

K. NO LIGHT TO BE LESS THAN 24" FROM FACE OF FINISHED WALL SURFACE. TO AVOID SCALLOPING.

L. SEE FINISH SCHEDULE FOR CEILING MATERIAL & FINISH.

M. SEE ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE.

N. EXISTING SLAB IS POST-TENSION CONSTRUCTION. SCAN ALL PENETRATIONS FOR APPROVAL PRIOR TO CORING.

O. FIRESTOP ALL SLAB PENETRATIONS WITH APPROVED ASSEMBLIES MATCHING THE RATING OF THE EXISTING SLAB.

CODED NOTES

1 EXISTING EXPOSED STRUCTURE ABOVE

2 NEW GYP. BOARD CEILING

3 BEGIN LAY-IN CEILING TILES AT THIS LOCATION

4 MENUBOARD. GC TO SUPPLY BLOCKING IN CEILING/ SOFFIT AND CONFIRM FINAL LOCATION WITH THE OWNER

5 CAPTURE SHROUD ABOVE COMBI OVEN

6 TRANSFORMER SUSPENDED ABOVE CEILING, REFER TO ELECTRICAL

7 TRANSFORMER SUSPENDED BELOW CEILING, REFER TO ELECTRICAL

8 COOLER LIGHTS PROVIDED BY COOLER MANUFACTURER. GC TO PROVIDE JUNCTION BOX FOR CEILING LIGHT AND DISPLAY WINDOW LIGHTS, IF APPLICABLE.

9 CENTER LIGHT FIXTURE OVER TABLE BELOW

10 STRING LIGHTS ON PATIO BY SWEETGREEN. EXISTING TO REMAIN

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY / RETURN DIFFUSERS RE: MECHANICAL PLANS		24"x 48" LAY-IN CEILING
	CEILING ACCESS PANELS RE: GENERAL NOTES FOR TYPE		GYPSUM BOARD CEILING
	SECURITY CAMERA		RECESSED CAN LIGHT
	WIRELESS ACCESS POINT		SUSPENDED PENDANT LIGHT
	RECESSED MOUNT SPEAKER- BOH		24"x 48" LED LIGHT FIXTURE
	WALL MOUNT SPEAKER- FOH		SUSPENDED LINEAR LED PENDANT LIGHT
	FIRE SPRINKLER HEAD (FOR REFEFERNCE ONLY); SEE FIRE PROTECTION PLAN		RECESSED LINEAR LED LIGHT
	WALL MOUNT SUBWOOFER - FOH		SCONCE LIGHT
	EXIT LIGHT/ SIGN		TRACK LIGHT

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5	09/26/2025	BULLETIN 02
9	10/15/2025	RFI 13

REFLECTED CEILING AND LIGHTING PLAN

A-140

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GENERAL NOTES

A. REFER TO ACCESSIBILITY SHEETS FOR TYPICAL ADA MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS AND SIGNAGE DETAILS.

B. GC TO PROVIDE PIPE CARRIERS IN WALL FOR ALL BATHROOM SINKS.

C. GC TO BLOCKING FOR ALL ACCESSORIES. PROVIDE FIRE-RETARDANT TREATED BLOCKING WHERE REQUIRED.

D. GC AND ALL VENDORS TO VERIFY QUANTITIES PRIOR TO ORDERING.

E. REFER TO PLUMBING PLAN REGARDING PLUMBING FIXTURE INSTALLATION.

F. GC TO PROVIDE CONTINUOUS SEALANT/CAULK FOR ALL ITEMS.

G. GC SHALL CAULK ALL TOILET FIXTURE AND ACCESSORIES TO FLOORS AND WALLS. (TYP)

H. GC SHALL CAULK ALL TRANSITIONS BETWEEN TILE AND WALLS.

I. GC TO INSULATE ALL PARTITION WALLS AS SHOWN. GC TO PROVIDE INSULATION ABOVE RESTROOM CEILING.

J. GC TO PROVIDE AND INSTALL ALL RESTROOM ACCESSORIES U.N.O.

K. ALL DIMENSIONS THIS SHEET ARE FROM THE FINISHED FLOOR OR FINISHED FACE OF WALLS U.N.O.

L. REFER TO SIGNAGE SCHEDULE FOR ADDITIONAL DETAILS.

M. ALIGN TILE BASE AND WALL FIELD TILE VERTICAL GROUT JOINTS.

N. INSTALL TOILETS WITH FLUSH LEVERS ON OPEN SIDE.

CODED NOTES

1 GC TO PROVIDE BLOCKING FOR ALL GRAB BARS AND RESTROOM ACCESSORIES

2 60" DIAMETER TURNING SPACE, SHOWN DASHED

3 30"x48" ACCESSIBLE MANEUVERING CLEARANCE, SHOWN DASHED

4 GC TO INSTALL SINK CARRIER IN WALL FOR ADDITIONAL SUPPORT

6 PROVIDE BLOCKING BEHIND ARTWORK / MIRROR ABOVE TILE TO PROVIDE CONTINUOUS BACKING. PROVIDE SEALANT AT EDGE OF ARTWORK / MIRROR ABOVE TILE.

7 CONTINUOUS METAL TOP TRIM

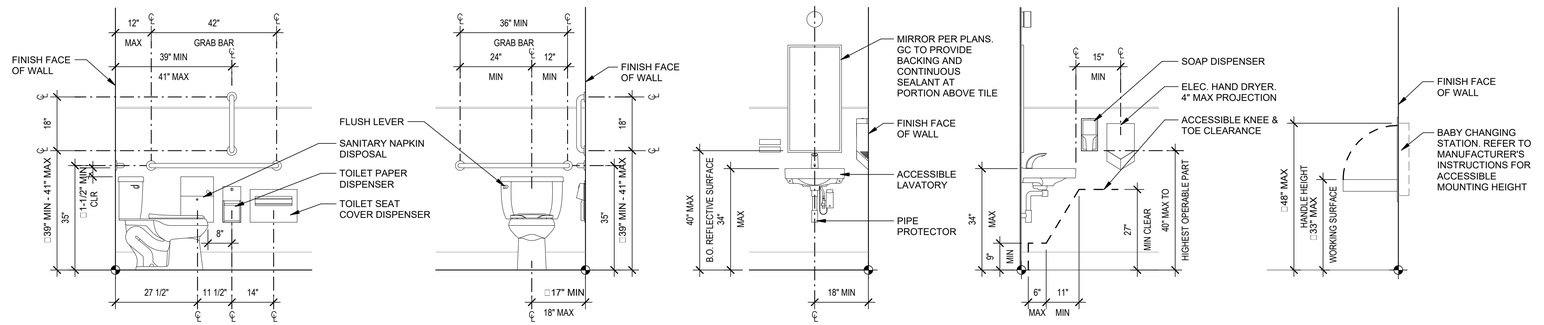
8 CENTER OF WALL SCONCE TO ALIGN WITH CENTER OF LAVATORY MIRROR. RIBS / FLUTES OF LIGHTING DIFFUSER TO BE ORIENTED HORIZONTALLY AS SHOWN

RESTROOM ACCESSORY SCHEDULE

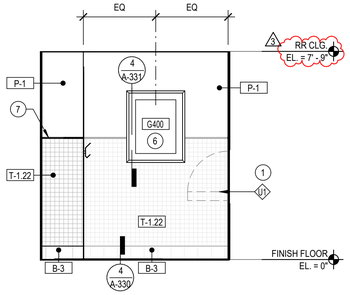
TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	UTILITIES ELEC.	UTILITIES WATER	UTILITIES WASTE	RESPONSIBILITIES SUPPLY	RESPONSIBILITIES INSTALL	REMARKS
RESTROOM ACCESSORIES										
A2	2	ACCESSIBLE TOILET	KOHLER	K-3519		•	•	GC	GC	INSTALL WITH K-4666-C TOILET SEAT. WHITE COLOR
C1	2	ACCESSIBLE LAVATORY	AMERICAN STANDARD	9024.001EC			•	GC	GC	INSTALL WITH JR SMITH 0710 LAVATORY SUPPORT
D	2	M POWER METERED FAUCET	MOEN	CA8302		•		GC	GC	
E	2	PIPE SAFETY COVERS	TRUEBRO	LAV GUARD 2				GC	GC	
F2	2	TOILET PAPER DISPENSER- SURFACE	ASI	0030				OWNER	GC	
H2	2	SANITARY NAPKIN DISPOSAL- SURFACE	ASI	0473-A				OWNER	GC	
J	2	RESTROOM MIRROR	ASI	0600-B1836				OWNER	GC	
K	2	ELECTRIC HAND DRYER	DYSON	HU02-30714-01	•			OWNER	GC	
M2	2	TOILET SEAT COVER- SURFACE	ASI	0477-SM				OWNER	GC	
N	2	COAT HOOK- SATIN STEEL	ASI	7382-S				OWNER	GC	MOUNT C.O. HOOK @ 48" AFF
Q	2	VERTICAL GRAB BAR - 18"	ASI	3801-18				OWNER	GC	
R1	3	GRAB BAR- STRAIGHT- 36"	ASI	3801-36				OWNER	GC	
R2	1	GRAB BAR- STRAIGHT- 42"	ASI	3801-42				OWNER	GC	
U1	2	HORIZONTAL BABY CHANGER - RECESSED	ASI	9018				OWNER	GC	
W4	1	RECTANGULAR RESTROOM SIGN	COMPLIANCE SIGNS	RRE-110-WHTonBHMABLU				OWNER	GC	MOUNT C.O. SIGN @ 60" AFF

TYPICAL RESTROOM ACCESSORY SCHEDULE NOTES:

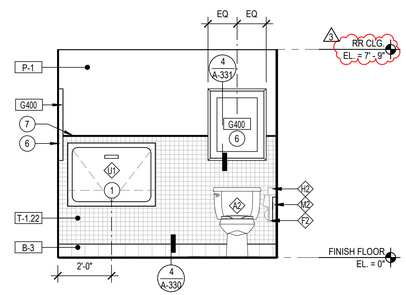
1. SCHEDULE QUANTITIES ARE DERIVED FROM THE DRAWING SOFTWARE AND ARE NOT TO BE USED FOR ORDERING MATERIALS OR EQUIPMENT WITHOUT VERIFICATION. IT IS THE RESPONSIBILITY OF THE GC, SUB-CONTRACTORS, VENDORS AND/OR SWEETGREEN TO VERIFY QUANTITIES PRIOR TO PURCHASING OR AUTHORIZING PURCHASES FOR THE PROJECT. QUANTITIES SHOWN DO NOT TAKE INTO ACCOUNT ANY WASTE OR OVERAGE.



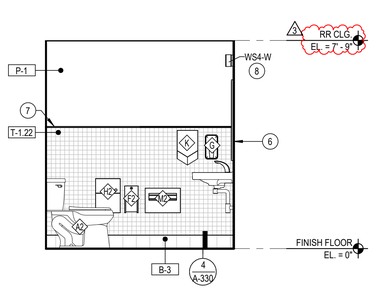
10 **RESTROOM ACCESSORY MOUNTING DETAIL**
1/2" = 1'-0"



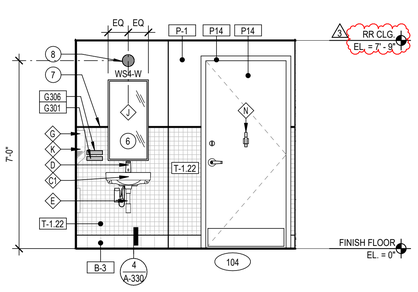
9 **WEST RR ELEVATION - SOUTH**
3/8" = 1'-0"



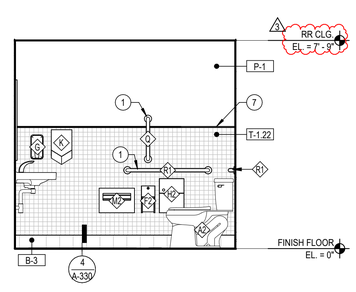
8 **WEST RR ELEVATION - WEST**
3/8" = 1'-0"



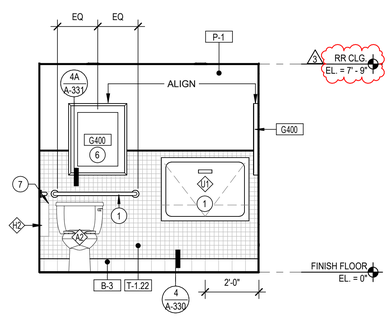
7 **WEST RR ELEVATION - NORTH**
3/8" = 1'-0"



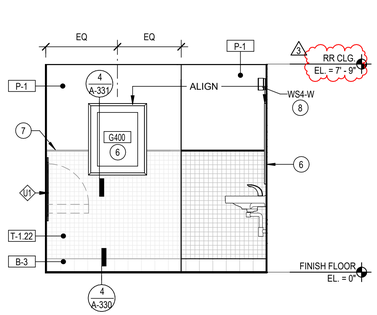
6 **WEST RR ELEVATION - EAST**
3/8" = 1'-0"



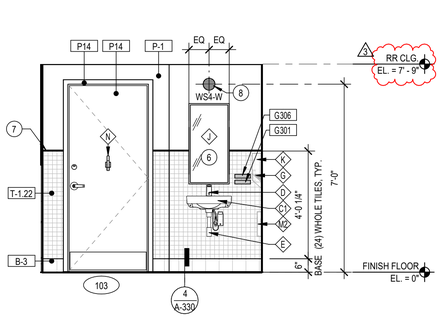
5 **EAST RR ELEVATION - NORTH**
3/8" = 1'-0"



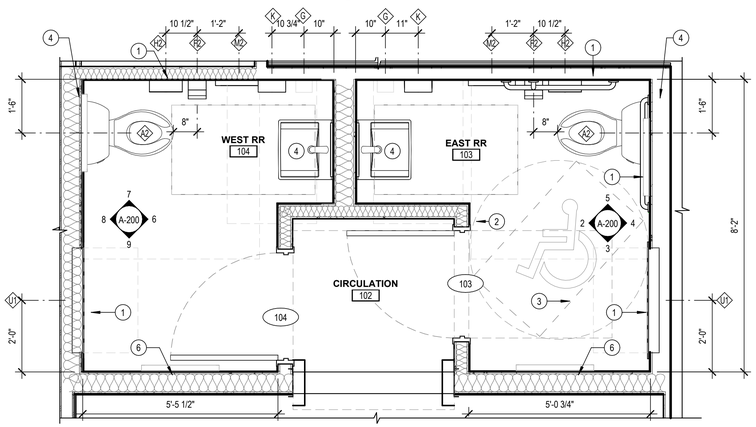
4 **EAST RR ELEVATION - EAST**
3/8" = 1'-0"



3 **EAST RR ELEVATION - SOUTH**
3/8" = 1'-0"



2 **EAST RR ELEVATION - WEST**
3/8" = 1'-0"



TRUE NORTH PLAN NORTH

1 **ENLARGED PLAN - RESTROOMS**
1/2" = 1'-0"

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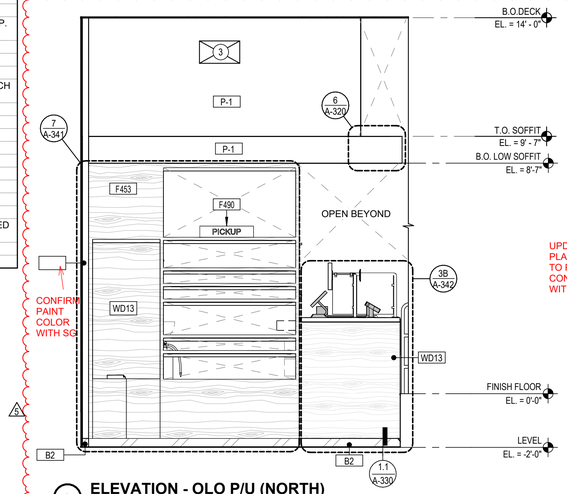
ENLARGED RESTROOM PLAN & ELEVATIONS

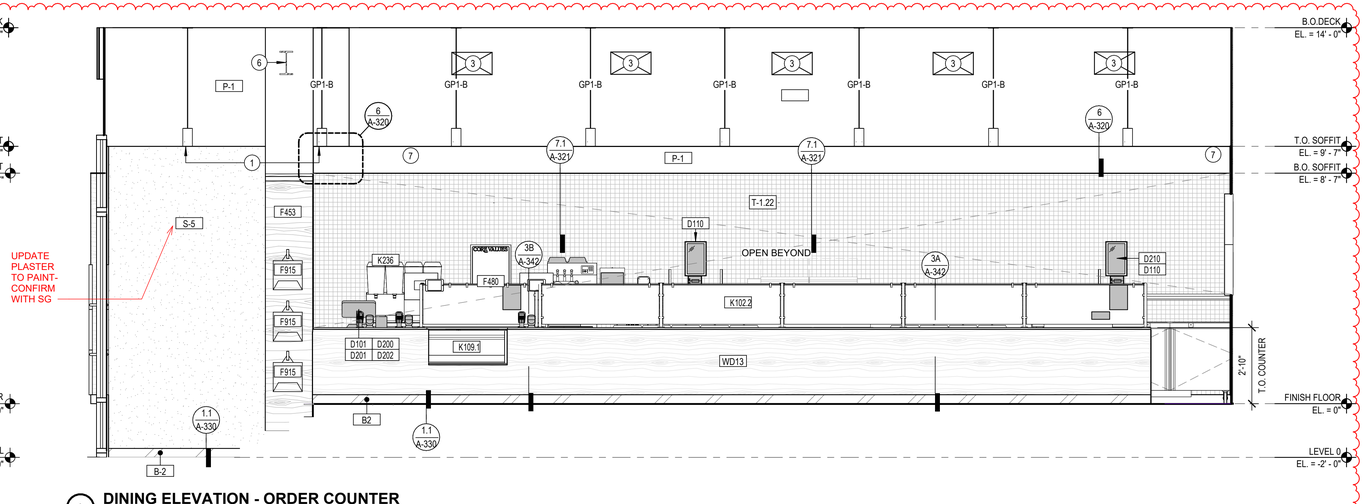
A-200

CODED NOTES

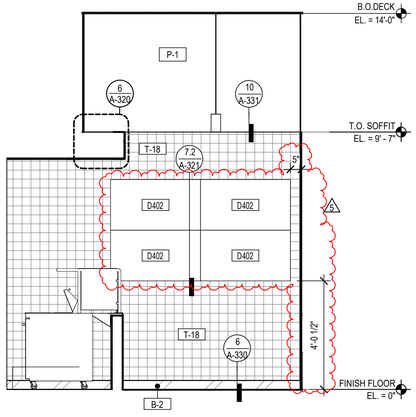
1	B.O. GENERAL LIGHTING PENDANT TO ALIGN WITH T.O. SOFFIT, TYP. THROUGHOUT
2	EXISTING LOUVER TO REMAIN AND TO BE PAINTED P-1
3	HVAC RETURN / SUPPLY GRILL TO BE PAINTED / FINISHED TO MATCH SURFACE IN WHICH THEY ARE INSTALLED, TYP.
4	BOTTOM OF PENDANT TO ALIGN WITH CENTER OF SCONCES
5	WOOD PANEL SEAMS TO ALIGN ON RETURN FACE
6	EXISTING STRUCTURE AND COLUMNS TO BE PAINTED P-1
7	REFER TO RCP FOR MORE DETAILS.
8	FROSTED FILM AT BOTTOM STOREFRONT PANEL, TO COVER RAISED FLOOR, TYP.
9	RELOCATE AND REUSE (E) DOOR; GC TO CONFIRM WITH TENANT

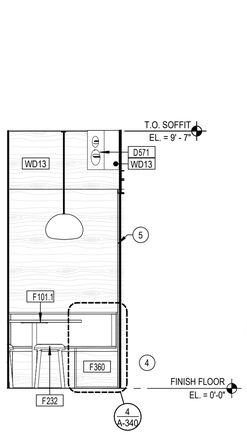


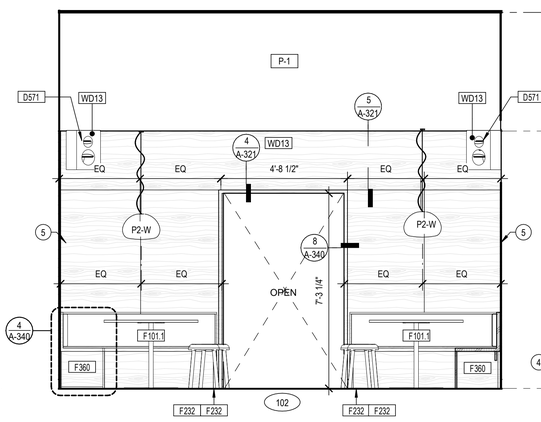
9 ELEVATION - OLO P/U (NORTH)
3/8" = 1'-0"

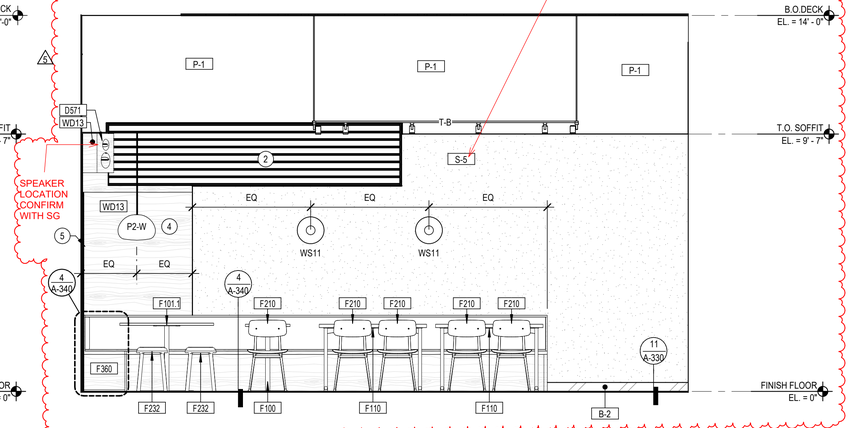


8 DINING ELEVATION - ORDER COUNTER
3/8" = 1'-0"

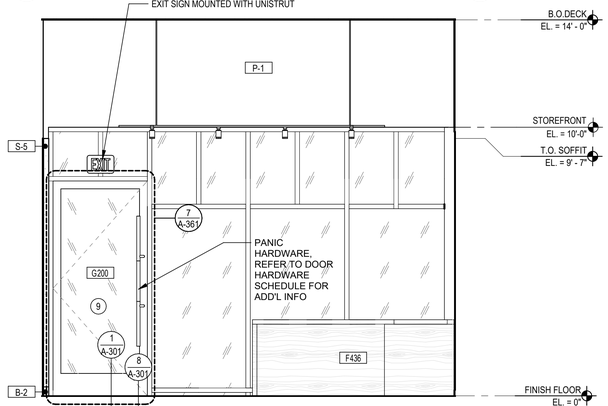




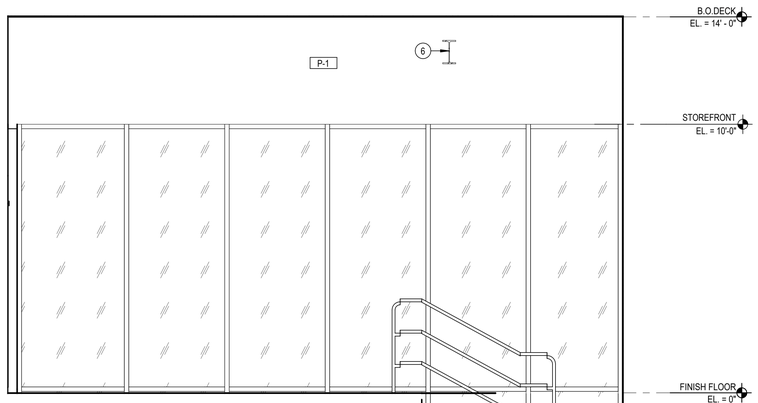




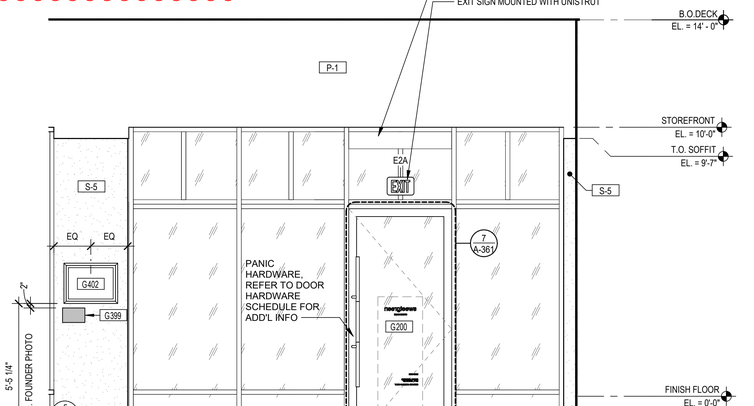
4 DINING ELEVATION - EAST
3/8" = 1'-0"



7 DINING ELEVATION - NORTH B
3/8" = 1'-0"



2 STOREFRONT ELEVATION - EAST
3/8" = 1'-0"



1 STOREFRONT ELEVATION - SOUTH A
3/8" = 1'-0"

3 STOREFRONT ELEVATION - SOUTH B
3/8" = 1'-0"

6 DINING ELEVATION - WEST
3/8" = 1'-0"

5 DINING ELEVATION - NORTH A
3/8" = 1'-0"

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07/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
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CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

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A	03/17/2025	ADDENDUM A
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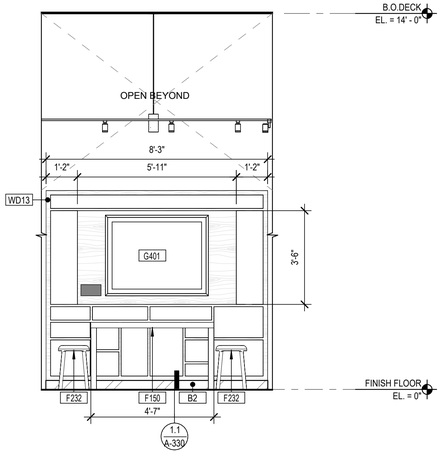
5	09/26/2025	BULLETIN 02

INTERIOR ELEVATIONS

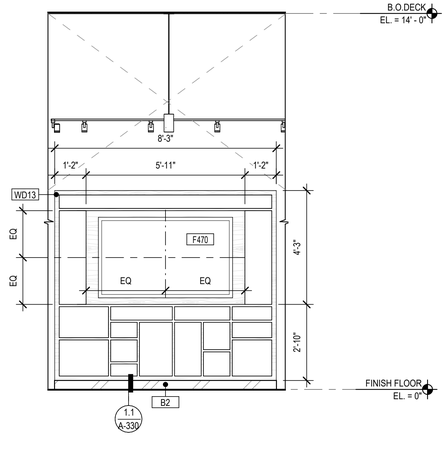
A-210

9/28/2025 6:13:13 PM

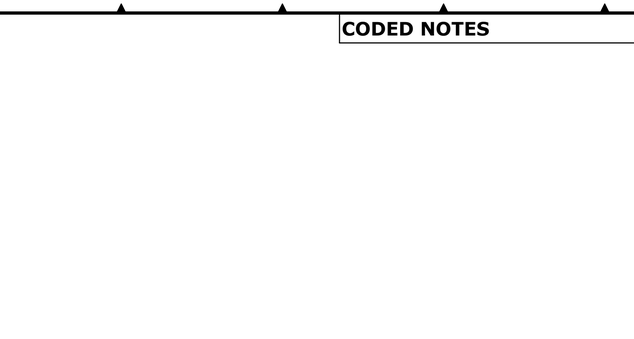
CODED NOTES



7 **DINING MILLWORK - WEST**
3/8" = 1'-0"

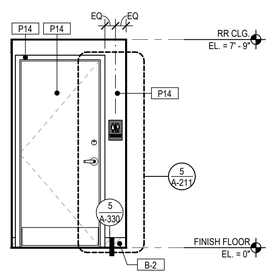


6 **DINING MILLWORK - EAST**
3/8" = 1'-0"

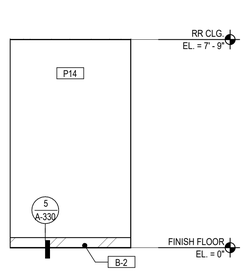


5 **TYPICAL ADA RESTROOM SIGNAGE**
NTS

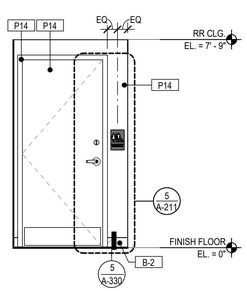
3



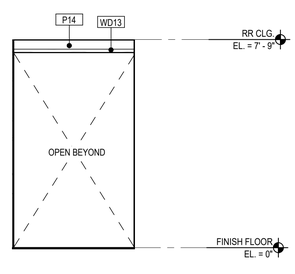
4 **CIRCULATION ELEVATION - WEST**
3/8" = 1'-0"



3 **CIRCULATION ELEVATION - NORTH**
3/8" = 1'-0"



2 **CIRCULATION ELEVATION - EAST**
3/8" = 1'-0"



1 **CIRCULATION ELEVATION - SOUTH**
3/8" = 1'-0"

7/29/2025 4:49:57 PM

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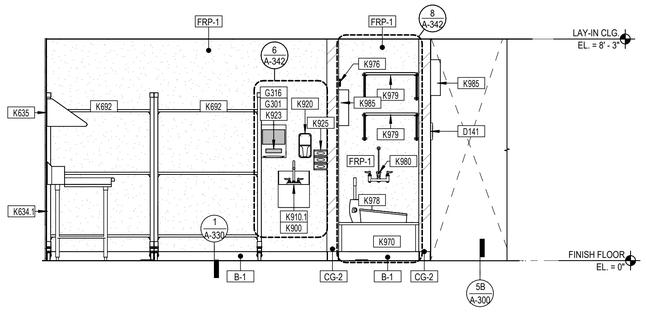
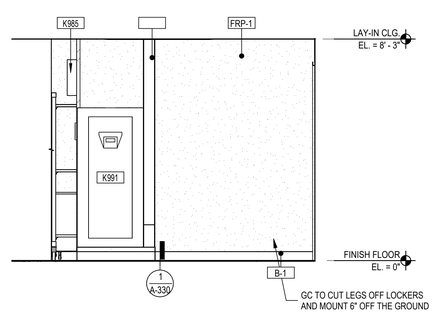
INTERIOR ELEVATIONS

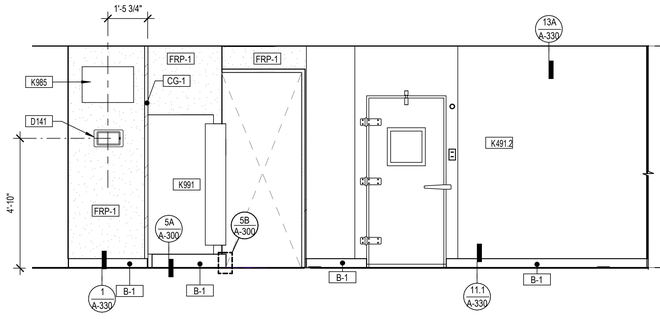
A-211



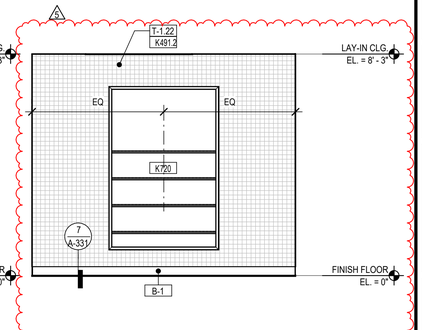
10 BOH ELEVATION - WAREWASH (SOUTH)
3/8" = 1'-0"



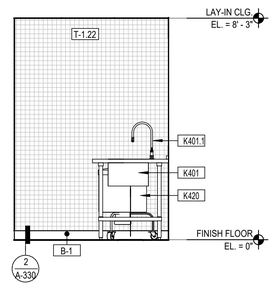
9 BOH ELEVATION - STORAGE AND LOCKERS
3/8" = 1'-0"



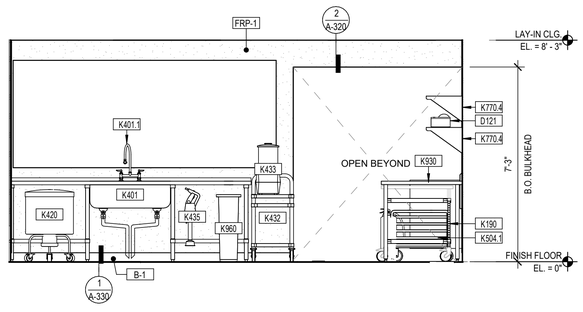
8 WIC ELEVATION - EAST
3/8" = 1'-0"



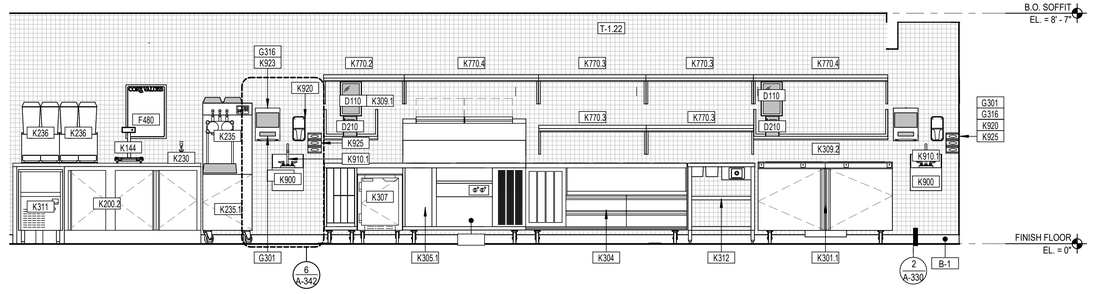
7 PREP CUBE ELEVATION - NORTH
3/8" = 1'-0"



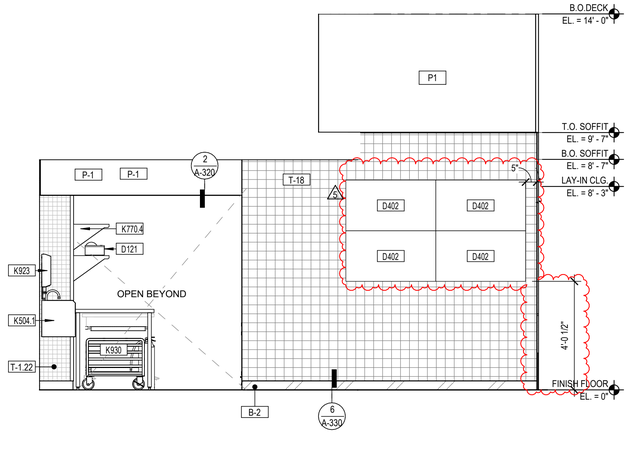
6 PREP CUBE ELEVATION - EAST
3/8" = 1'-0"



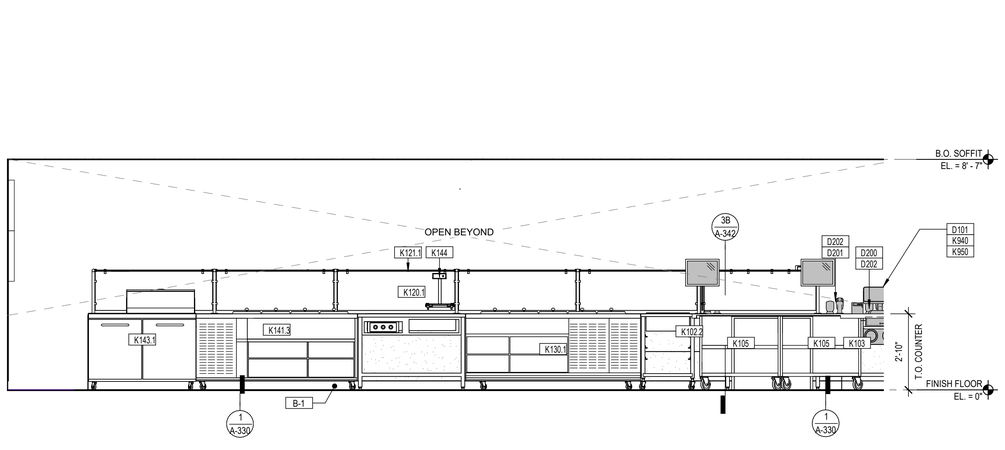
5 PREP CUBE ELEVATION - SOUTH
3/8" = 1'-0"



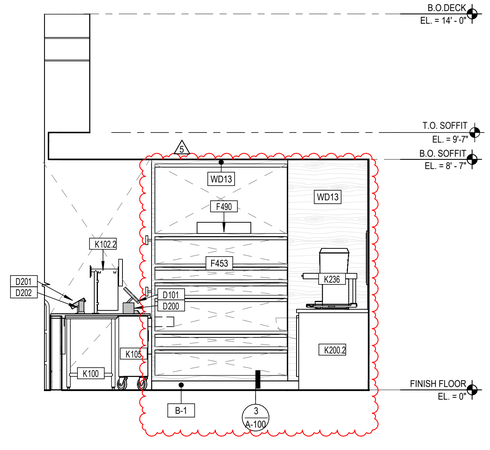
4 KITCHEN ELEVATION - BEVERAGE AND OLO LINE
3/8" = 1'-0"



3 KITCHEN ELEVATION ELEVATION - SERVING LINE NORTH
3/8" = 1'-0"



2 KITCHEN ELEVATION - SERVING LINE EAST
3/8" = 1'-0"



1 KITCHEN ELEVATION - POS SOUTH
3/8" = 1'-0"

9/28/2025 6:13:18 PM

sg

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STAMP:

07/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
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CHARLOTTE, NC 28205

DRAWN BY:	MN/SL/SN
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PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

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B	04/11/2025	ADDENDUM B
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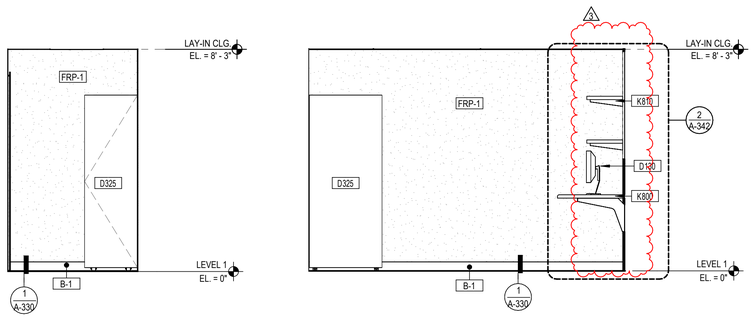
KITCHEN ELEVATIONS

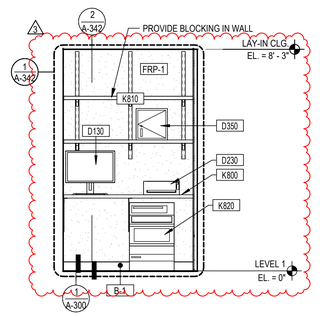
A-220

CODED NOTES

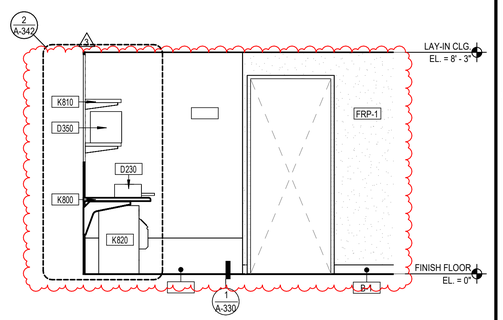


7 **BOH ELEVATION - OFFICE NORTH**
3/8" = 1'-0"

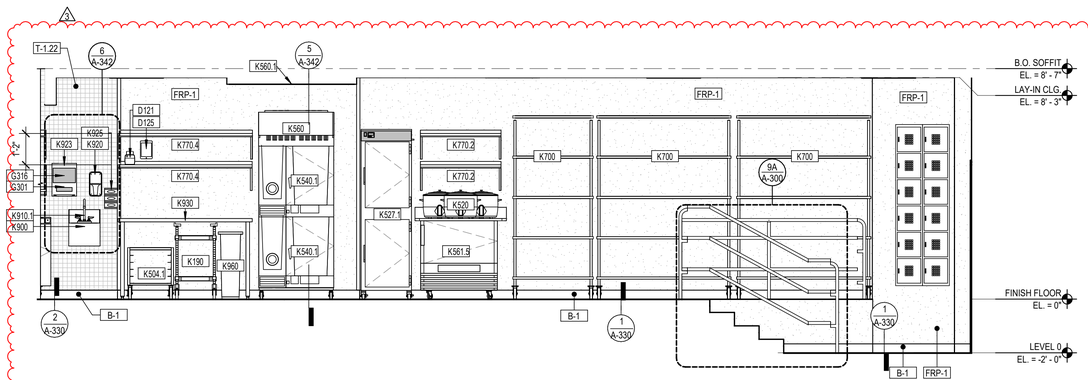
6 **BOH ELEVATION - OFFICE EAST**
3/8" = 1'-0"



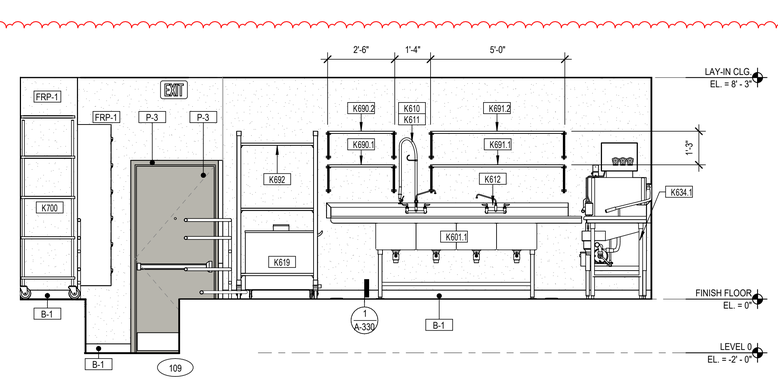
5 **BOH ELEVATION - OFFICE SOUTH**
3/8" = 1'-0"



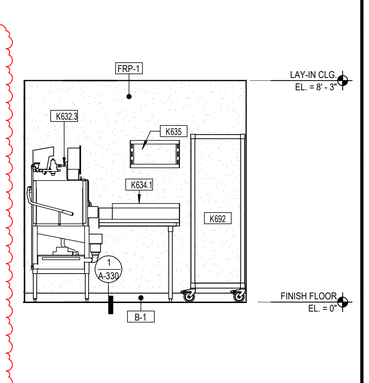
4 **BOH ELEVATION - OFFICE WEST**
3/8" = 1'-0"



3 **BOH ELEVATION - HOT PREP**
3/8" = 1'-0"



2 **BOH ELEVATION - WAREWASH NORTH**
3/8" = 1'-0"



1 **BOH ELEVATION - WAREWASH EAST**
3/8" = 1'-0"

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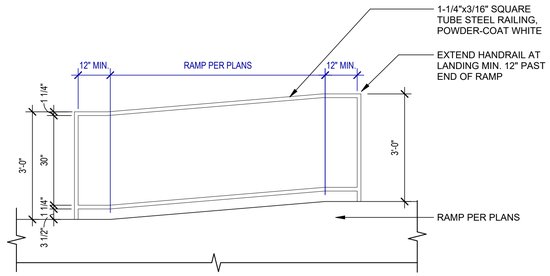
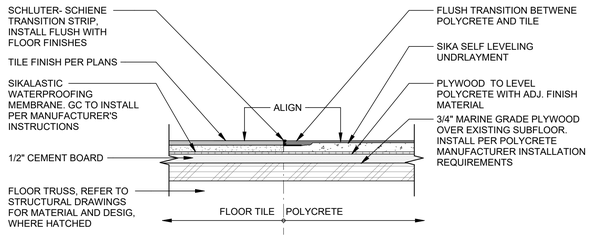
KITCHEN ELEVATIONS

A-221

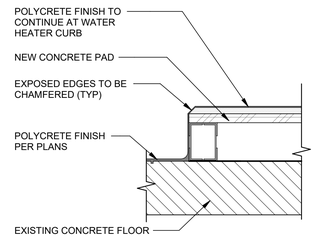
7/29/2025 4:50:07 PM



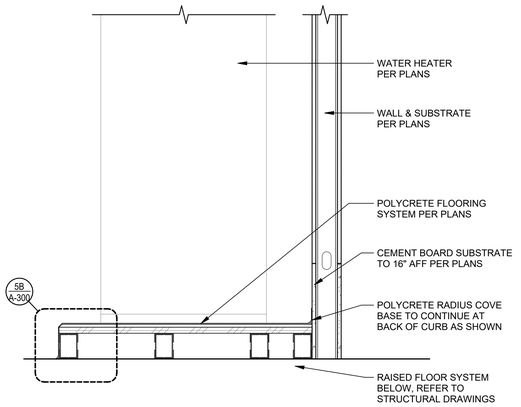
11 TYPICAL HANDRAIL ELEVATION
1/2" = 1'-0"



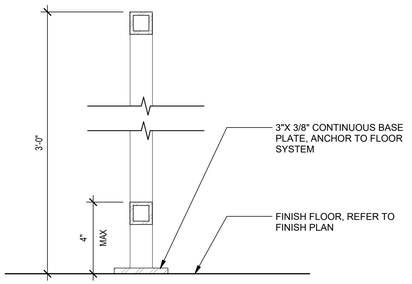
10A POLYCRETE TO TILE FLOOR TRANSITION
3" = 1'-0"



5B TYPICAL CURB EDGE
1 1/2" = 1'-0"

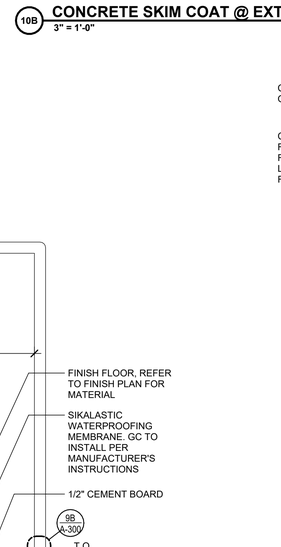


5A WATER HEATER CURB
1" = 1'-0"

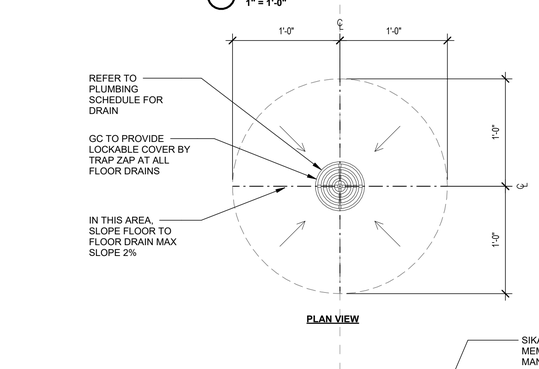


SECTION

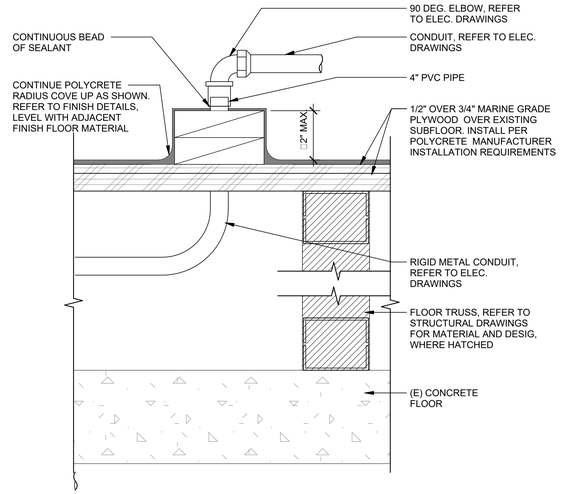
9B TYPICAL HANDRAIL PLAN AND SECTION
3" = 1'-0"



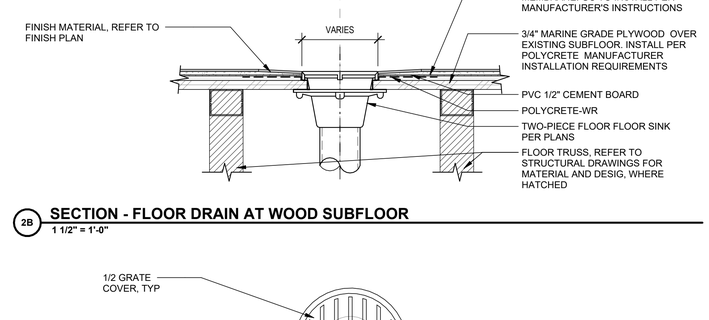
10B CONCRETE SKIM COAT @ EXTERIOR RAMP
3" = 1'-0"



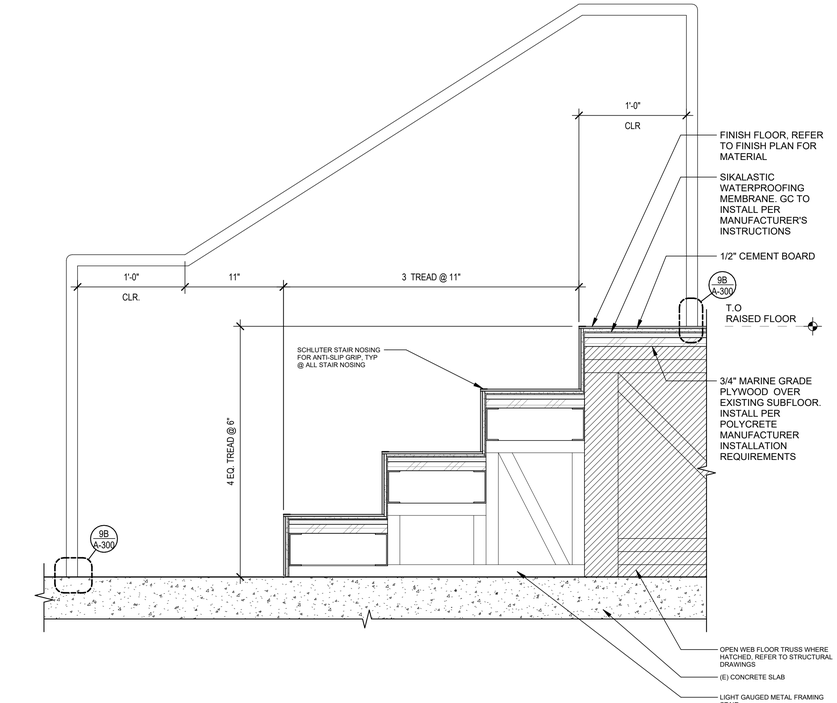
PLAN VIEW



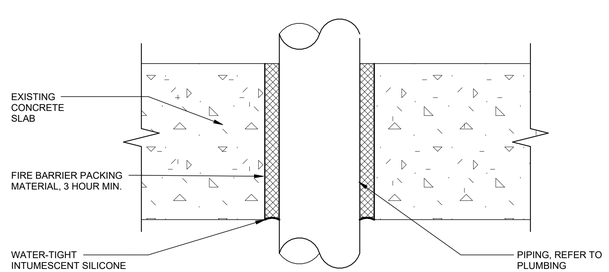
4 TYPICAL ELECTRICAL STUB
3" = 1'-0"



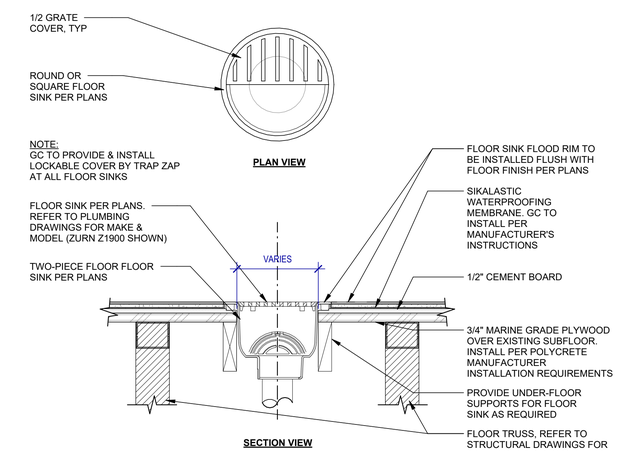
2B SECTION - FLOOR DRAIN AT WOOD SUBFLOOR
1 1/2" = 1'-0"



9A METAL FRAMING STAIR DETAIL
1 1/2" = 1'-0"



2A TYPICAL FIRE-RATED PENETRATION
3" = 1'-0"



PLAN VIEW

SECTION VIEW

1A SECTION - FLOOR SINK AT WOOD SUBFLOOR
1 1/2" = 1'-0"

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07/25/2025

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CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

SLAB DETAILS

3 A-300

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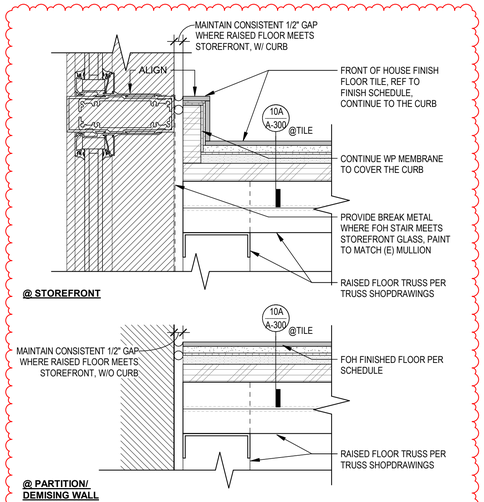
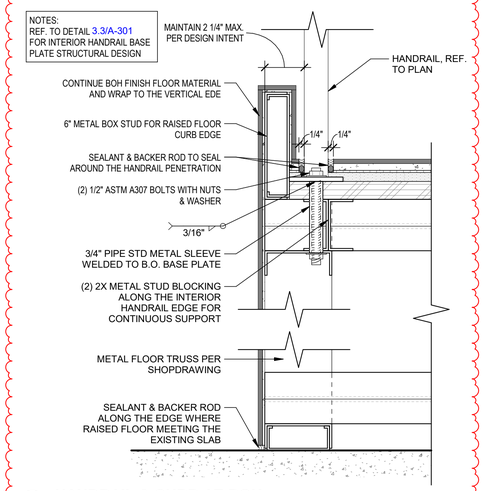
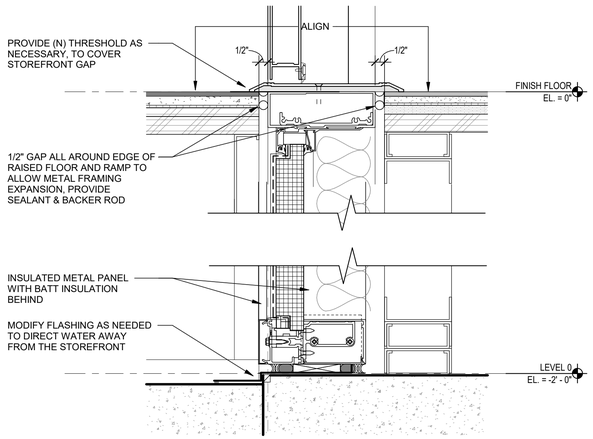


9 RAISED FLOOR EDGE @ STOREFRONT
3" = 1'-0"

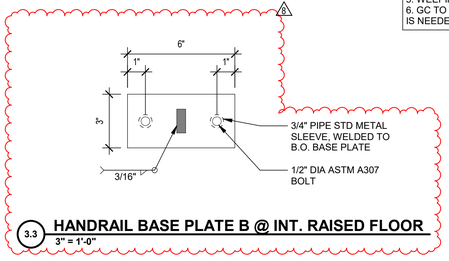


7 HANDRAIL & CURB AT BOH
3" = 1'-0"

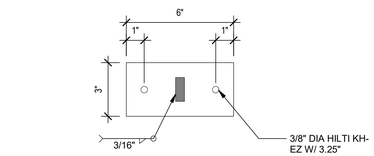


8 (E) STOREFRONT MODIFICATION
3" = 1'-0"

6 FRAMING @ BOTTOM OF RAMP
3" = 1'-0"



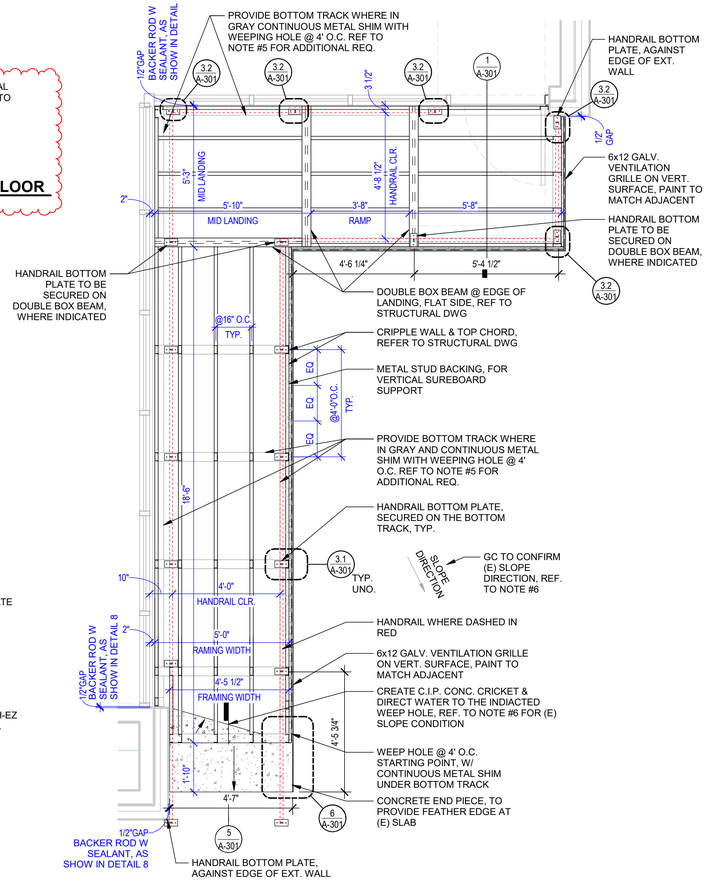
3.3 HANDRAIL BASE PLATE B @ INT. RAISED FLOOR
3" = 1'-0"



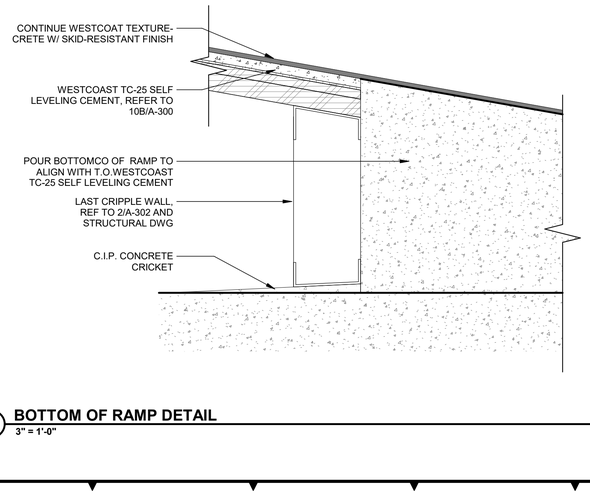
3.2 HANDRAIL BASE PLATE B @ EXT. RAMP
3" = 1'-0"

3.1 HANDRAIL BASE PLATE A @ EXT. RAMP
3" = 1'-0"

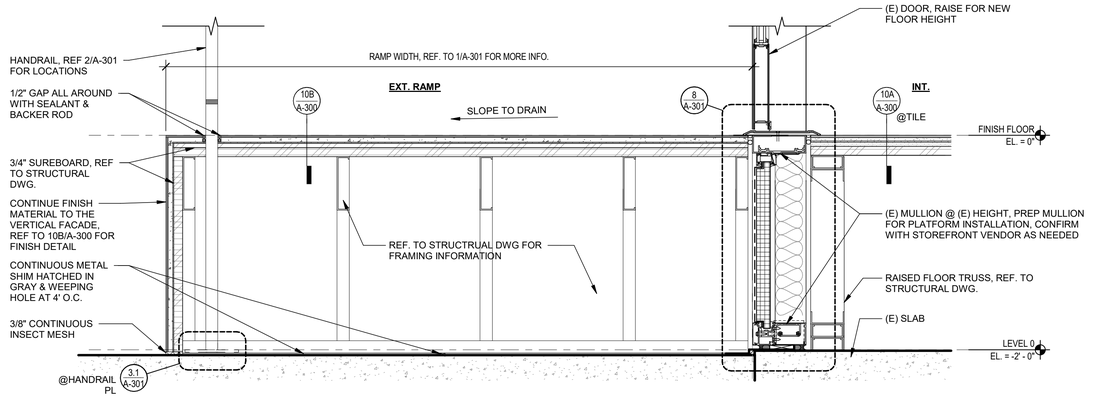
NOTES:
1. INSTALL ALL HANDRAIL BOTTOM PLATE FULLY WINTHIN BOTTOM TRACK.
2. FIELD VERIFY ALL DIM. BEFORE INSTALLATION.
3. REVIEW STRUCTURAL DWG. FOR ALL FRAMING INSTALLATION.
4. GC TO CONFIRM PT TANDON INSIDE THE SLAB PRIOR TO INSTALL HANDRAIL ANCHOR AND FRAMING FOR ANY EMBEDMENT OVER 3/4" DEEP.
5. WEEPING HOLE SHALL NOT BE PLACED WHERE CRIPPLE WALLS ARE LOCATED.
6. GC TO CONFIRM PATIO SLOPE DIRECTION, CRICKET AT THE BOTTOM OF SLOPE IS NEEDED IF THE SLOPE IS ONLY IN PLANNED NORTH-SOUTH DIRECTION



2 ENLARGED RAMP PLAN
3/8" = 1'-0"



5 BOTTOM OF RAMP DETAIL
3" = 1'-0"



1 RAMP TO RAISED FLOOR TRANSITION
1 1/2" = 1'-0"

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07/29/2025

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SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
6	09/25/2025	RFI 6
8	10/13/2025	RFI12

RAISED FLOOR DETAILS

A-301

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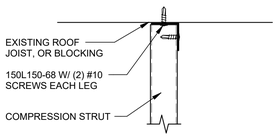
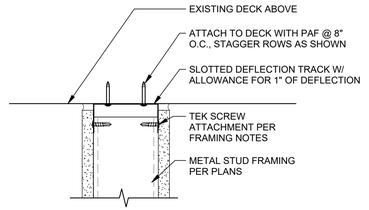
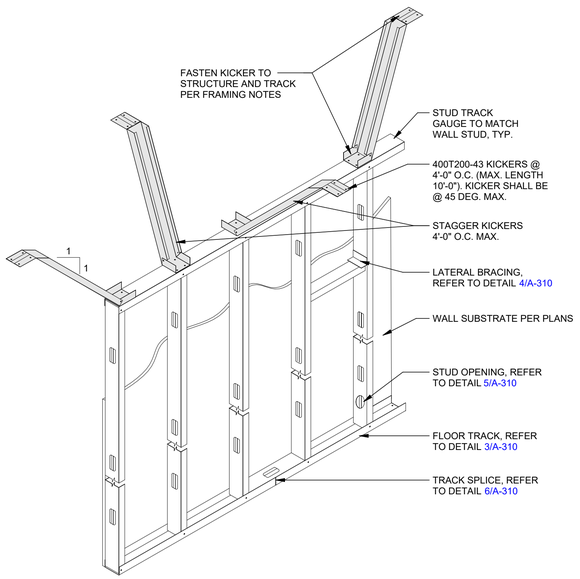


8 TYPICAL COMPRESSION STRUT ATTACHMENT
3" = 1'-0"

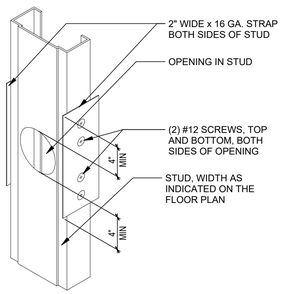


7 TYPICAL TOP OF FULL HEIGHT WALL
3" = 1'-0"

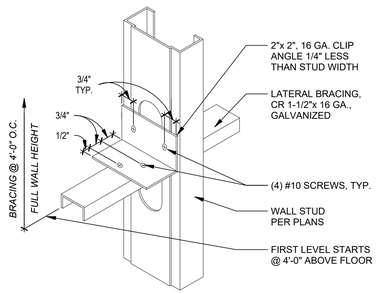
6 TRACK SPLICE DETAIL
NTS



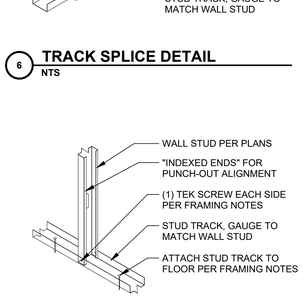
2 TYPICAL KICKER BRACING
NTS



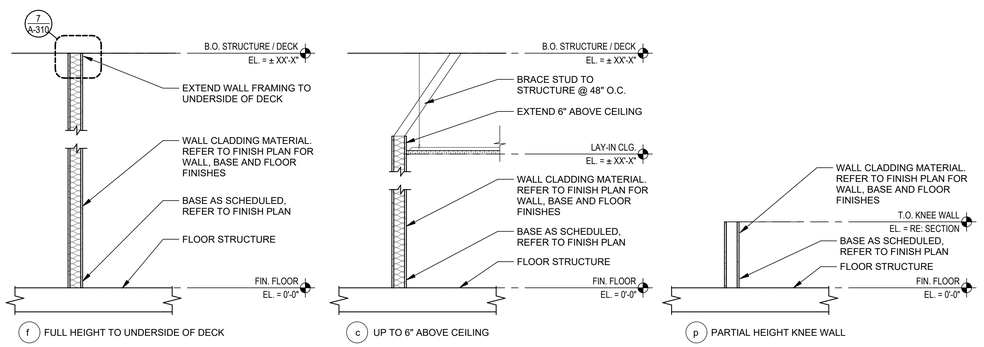
5 METAL STUD OPENING PROTECTION
NTS



4 STUD LATERAL BRACING OF PARTITION
NTS



3 STUD TRACK FLOOR SLAB CONNECTIONS
NTS



1 WALL HEIGHT CONDITIONS
NTS

GENERAL NOTES

A. ALL PARTITIONS THAT ARE TO BE BUILT TO DECK SHALL INCLUDE ANY STRUCTURE (JOISTS, BEAMS, ETC.) THAT MAY NEED TO BE FRAMED OUT IN ORDER TO PROVIDE DRYWALL TO DECK. ALL PENETRATIONS AND FLUTES IN DECK SHALL BE SEALED AS REQUIRED.

B. PROVIDE BRACING PER MANUFACTURER'S RECOMMENDATIONS IN ALL PARTITIONS THAT DO NOT EXTEND FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE.

C. PROVIDE A GALVANIZED STEEL SHEET DEEP LEG DEFLECTION TRACK (20 GA.), 'SLP-TRK' BY SLIPTRACK SYSTEMS, INC. AT ALL FRAMING THAT EXTENDS FROM THE SLAB TO THE UNDERSIDE OF THE STRUCTURE ABOVE. SECURE DEFLECTION TRACK TO STRUCTURE WITH FASTENERS AT 2'-0" O.C. MAXIMUM. DO NOT SECURE TRACK TO VERTICAL STUDS. PROVIDE MINIMUM OF 1" TO TOP OF METAL STUD.

D. ALL BOTTOM TRACK RUNNERS ARE TO BE HELD IN PLACE WITH FASTENERS AT 2'-0" O.C. MAX WITH HILTI POWER DRIVER ANCHOR ICBO #2388, .0145" DIAMETER SHANK WITH 1-1/8" MINIMUM PENETRATION.

E. PROVIDE ACOUSTICAL SEALANT AT THE INTERSECTION OF ALL GYPSUM BOARD TO DECK OR CONCRETE SLAB CONDITIONS. HOLD GYPSUM BOARD 3/8" OFF OF STRUCTURE FOR SEALANT.

F. PROVIDE HORIZONTAL BRIDGING IN ALL PARTITION FRAMING AT A MINIMUM OF 6'-0" O.C. VERTICALLY. GENERAL CONTRACTOR TO COORDINATE WITH METAL STUD MANUFACTURER TO DETERMINE IF HORIZONTAL BRIDGING IS REQUIRED FOR METAL STUD PARTITION WALLS THAT HAVE GYPSUM BOARD ON BOTH SIDES THAT EXTEND FROM FINISHED FLOOR TO UNDERSIDE OF STRUCTURE ABOVE.

G. METAL STUD NON-STRUCTURAL WALL SYSTEMS ARE TO FOLLOW ASTM C754 & ASTM C645.

H. TAPE, MUD, AND SAND GYPSUM BOARD SMOOTH READY FOR NEW FINISHES AT INTERIOR FACE OF ALL GYPSUM BOARD SURFACES. PROVIDE ASTM C840 LEVEL 4 FINISH UNLESS NOTED OTHERWISE.

I. ALL PLYWOOD BLOCKING IS TO BE FIRE RETARDANT TREATED.

J. PROVIDE COMPRESSIBLE FIRE STOPPING MATERIAL WITHIN THE DECK FLUTES AT ALL FIRE RATED PARTITIONS.

K. PROVIDE COMPRESSIBLE FIRE STOPPING MATERIAL AT THE CEILING LEVEL OF ALL PARTITIONS WITH GYPSUM BOARD NOT EXTENDING FULL HEIGHT TO THE DECK ABOVE. HOLD FIRE STOPPING IN PLACE WITH 1" WIDE (25 GA.) 1-1/2"x 1-1/2" IMPALING ANGLE ON EACH STUD TO SECURE EACH END OF THE MATERIAL.

L. PROVIDE FIRE SAFING AT ALL PARTITION/FURRING CAVITIES AT CEILING LEVELS OPEN TO CEILING PLENUMS.

M. PROVIDE 5/8" WATER RESISTANT TYPE "X" GYPSUM BOARD AT ALL WET AREAS AS INDICATED ON DRAWINGS. TAPE, SEAL AND PREP TO ACCEPT FINISH.

N. PROVIDE BLOCKING FOR ALL DOOR STOPS.

O. ALL WOOD IN CONTACT WITH CONCRETE AND AT EXTERIOR LOCATIONS MUST BE PRESSURE TREATED MOISTURE RESISTANT WOOD.

P. ALL WALL CONSTRUCTION FACING PLUMBING FIXTURE AREAS MUST UTILIZE DUROCK ALONG THE BOTTOM AND MOISTURE RESISTANT GYPSUM BOARD ALONG THE TOP UNLESS OTHERWISE NOTED.

INTERIOR METAL STUD SCHEDULE

SIZE	GA.	MAT. DESIGN THICKNESS (MILS)	ICC	MAXIMUM UNSUPPORTED HEIGHT @ 12" OC	MAXIMUM UNSUPPORTED HEIGHT @ 16" OC
1-5/8"	20	30	162S162-33	9'-3"	8'-5"
2-1/2"	20	30	250S162-33	12'-9"	11'-7"
3-5/8"	20	33	362S162-33	19'-3"	17'-6"
3-5/8"	18	43	362S162-43	21'-0"	19'-1"
6"	20	33	600S162-33	28'-7"	26'-0"
6"	18	43	600S162-43	31'-2"	28'-4"
8"	18	43	800S162-43	39'-3"	35'-8"
8"	16	54	800S162-54	42'-2"	38'-4"

FRAMING NOTES

1. USE GAUGE & TYPE OF STUD AS SCHEDULED, UNLESS NOTED OTHERWISE ON DRAWINGS.
2. BASED ON INTERIOR LIMITING WALL HEIGHT TABLES. PARTITIONS W/ ONE LAYER GYPSUM BOARD EACH SIDE (L/240 DEFLECTION - 5 PSF LOAD) PER 2012 SSMA PRODUCT TECHNICAL INFORMATION BULLETIN (ICC ESR #3064P).
3. RUNNER TRACK GAUGE TO MATCH STUD.
4. WALLS OVER 12'-0" HIGH TO BE LATERALLY BRACED VERTICAL WITH 1-1/2" (16GA) COLD-ROLLED CHANNELS CLIP ANCHORED TO METAL STUDS.
5. METAL STUD NON-STRUCTURAL WALL SYSTEMS TO FOLLOW ASTM C754 & ASTM 645.
6. MATERIAL DESIGN THICKNESS IS THE BASE METAL THICKNESS IN MILS. MINIMUM ALLOWED BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.
7. TYPICAL FASTENER (UNLESS NOTED OTHERWISE):
   A. STEEL STUDS TO STEEL STUDS OR TRACK:
      - 20 GAUGE: #8 - 18x 1/2" TEKS W/ PHILIPS PAN HEAD - MIN. 2 PER CONNECTION
      - 18/16 GAUGE: #10 - 16x 3/4" TEKS W/ PHILIPS PAN HEAD - MIN. 3 PER CONNECTION
   B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
      - #14 - 10x 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS @ 12" O.C., 2" FROM EACH END
   C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COLUMNS, BEAMS, GIRDERS, ETC.):
      - 0.145" DIA. HILTI X-U FASTENERS, 5/8" MIN. LENGTH AND MIN. (2) PER CONNECTION, OR 2 ROWS @ 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. FIELD, 12" O.C. PERIMETER
   E. GYPSUM BOARD TO STEEL STUDS:
      - #7x 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYPSUM BOARD TO 20 GAUGE STUDS
      - #6x 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-U FASTENERS, 1" MIN. LENGTH, 2 ROWS @ 16" O.C.

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PLAZA MIDWOOD

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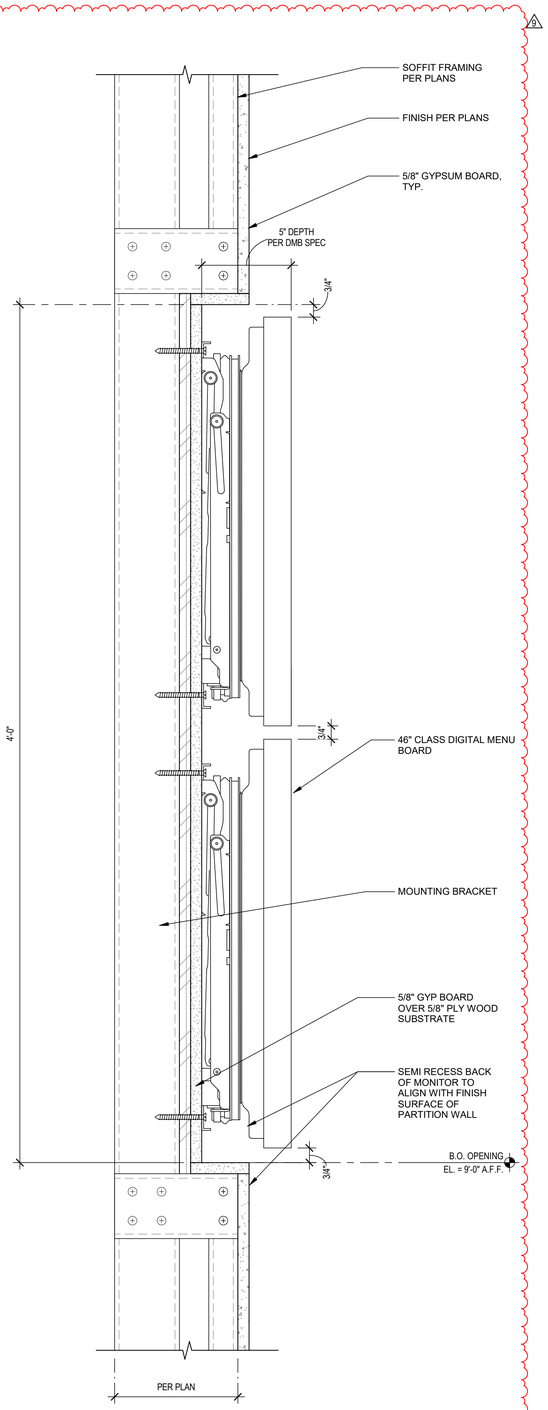
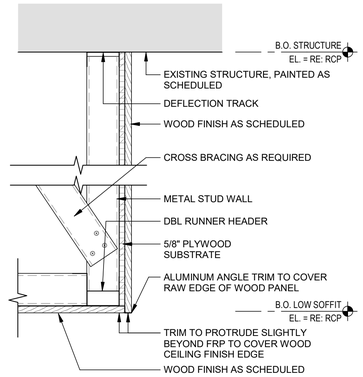
WALL DETAILS

A-310

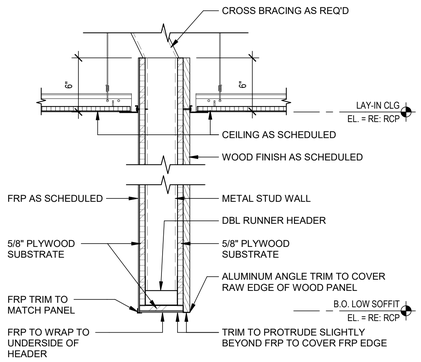
7/29/2025 4:50:12 PM



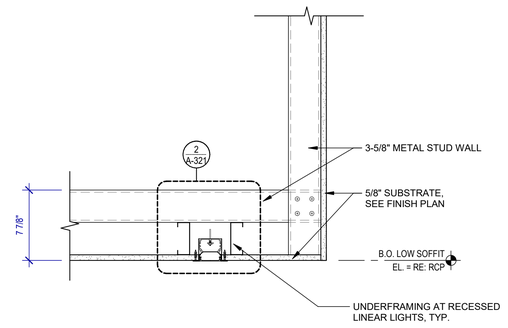
7.2 SECTION @ MENUBOARD - 46" SCREENS
3" = 1'-0"



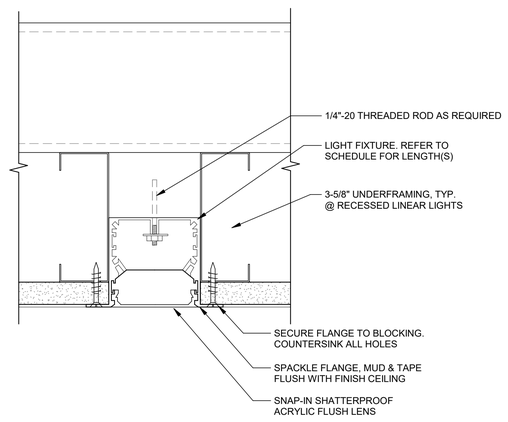
5 WOOD SOFFIT DETAIL
1 1/2" = 1'-0"



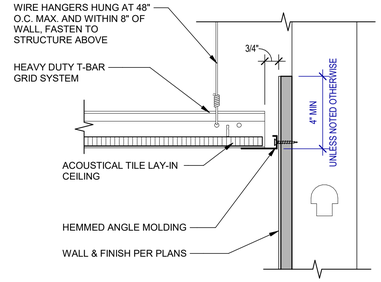
4 WOOD BULKHEAD DETAIL
1 1/2" = 1'-0"



3 FRAMING @ RECESSED LINEAR LIGHT
1 1/2" = 1'-0"



2 RECESSED LINEAR LIGHT SECTION
6" = 1'-0"



1 LAY-IN CEILING DETAIL
3" = 1'-0"

10/15/2025 10:12:03 PM

sg

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3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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07/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
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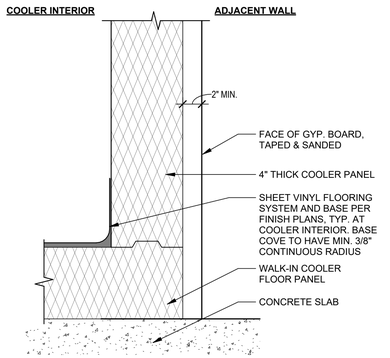
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

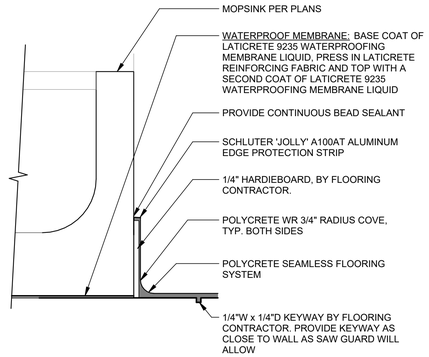
REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/29/2025	PERMIT AMENDMENT
5	09/26/2025	BULLETIN 02
9	10/15/2025	RFI 13

CEILING DETAILS

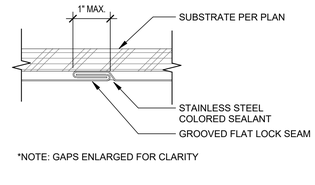
A-321



17B.1 COOLER AT ADJACENT WALL
3" = 1'-0"

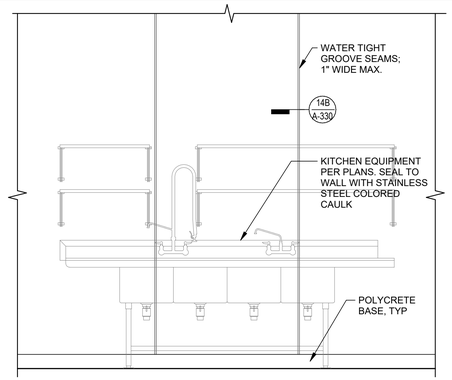


15 POLYCRETE BASE FINISH AT MOPSINK
3" = 1'-0" ; REFERENCED ON SHEET A-342

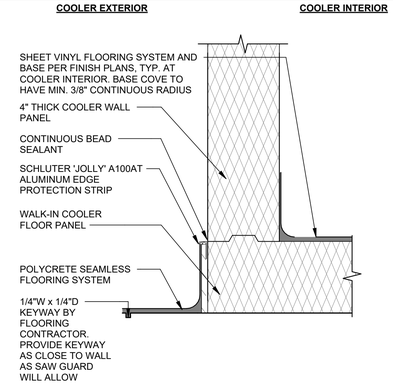


*NOTE: GAPS ENLARGED FOR CLARITY

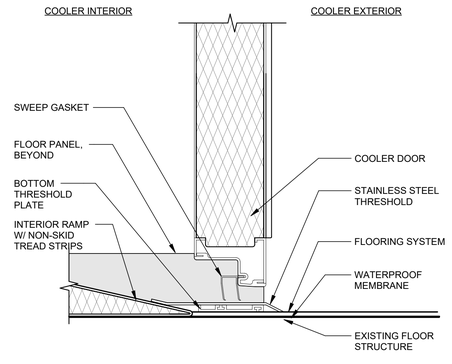
14B STAINLESS GROOVE SEAM
NTS



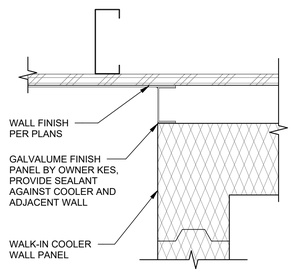
14A ELEVATION - STAINLESS STEEL WALL PANELING
1/2" = 1'-0"



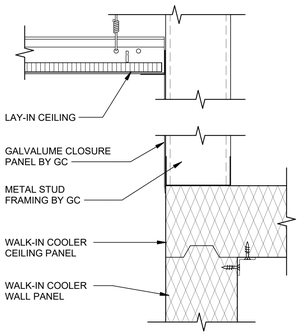
11.1 POLYCRETE BASE AT COOLER
3" = 1'-0"



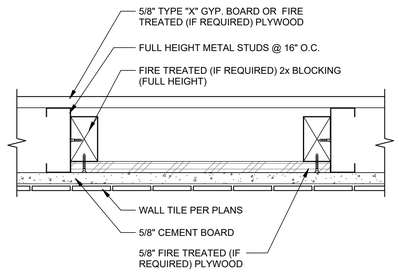
9.1 COOLER RAMP
3" = 1'-0"



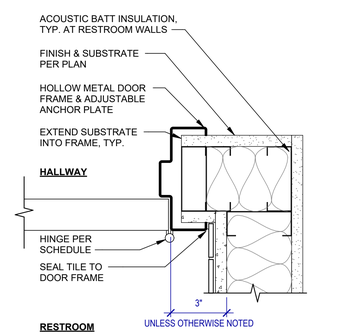
13B FINISH TRIM AT COOLER WALL
3" = 1'-0"



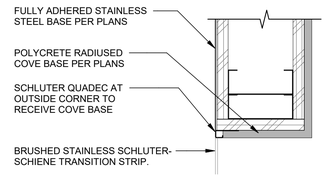
13A LAY-IN CEILING FINISH AT COOLER HEAD
3" = 1'-0" ; REFERENCED ON SHEET A-220



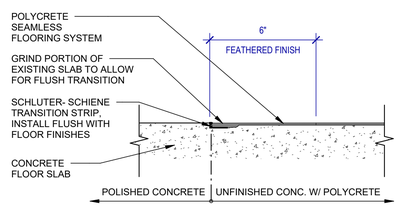
12 FULL HEIGHT WALL BLOCKING AT TILE LOCATIONS
3" = 1'-0"



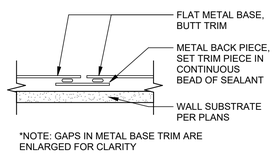
11 TYPICAL HM DOOR JAMB
3" = 1'-0"



10 POLYCRETE TO STAINLESS BASE
3" = 1'-0" ; REFERENCED ON SHEET A-120

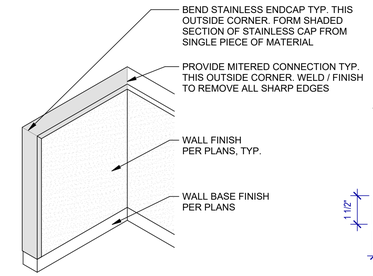


9 POLYCRETE TO RETROPLATE TRANSITION
3" = 1'-0" ; REFERENCED ON SHEET A-120

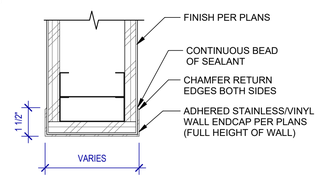


*NOTE: GAPS IN METAL BASE TRIM ARE ENLARGED FOR CLARITY

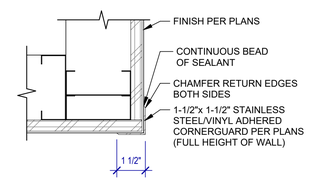
8 RUNNING SS BASE JOINT
NTS



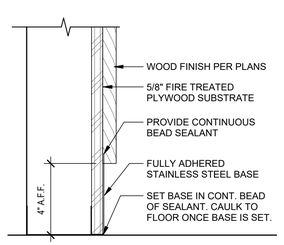
7C 3D STAINLESS WALLCAP TRIM
1/2" = 1'-0"



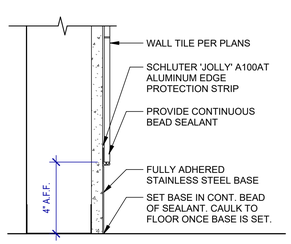
7B WALL ENDCAP TRIM
3" = 1'-0" ; REFERENCED ON SHEET A-120



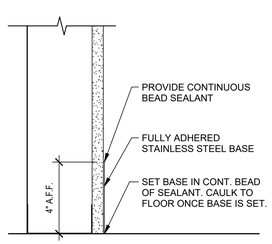
7A CORNERGUARD TRIM
3" = 1'-0"



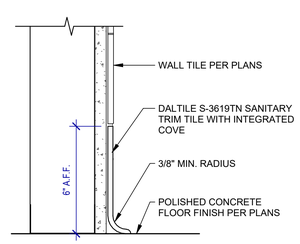
1.1 SS BASE AT WOOD
3" = 1'-0" ; REFERENCED ON SHEET A-210



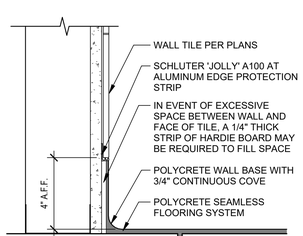
6 SS BASE AT TILE
3" = 1'-0" ; REFERENCED ON SHEET A-120



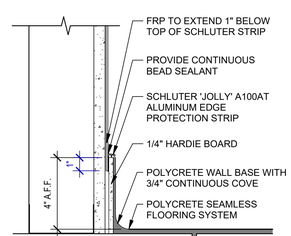
5 SS BASE AT GYP.
3" = 1'-0" ; REFERENCED ON SHEET A-120



4 TILE BASE AT RESTROOM TILE
3" = 1'-0" ; REFERENCED ON SHEET A-200



2 POLYCRETE BASE AT TILE
3" = 1'-0" ; REFERENCED ON SHEET A-120



1 POLYCRETE BASE AT FRP
3" = 1'-0" ; REFERENCED ON SHEET A-220

7/29/2025 4:50:20 PM

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3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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07/25/2025

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PLAZA MIDWOOD

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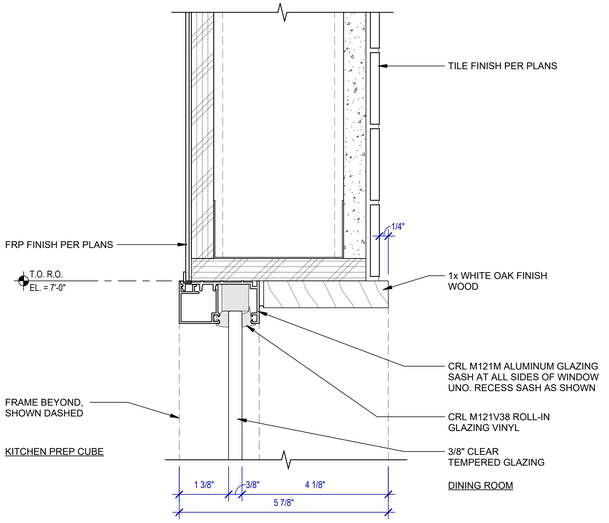
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

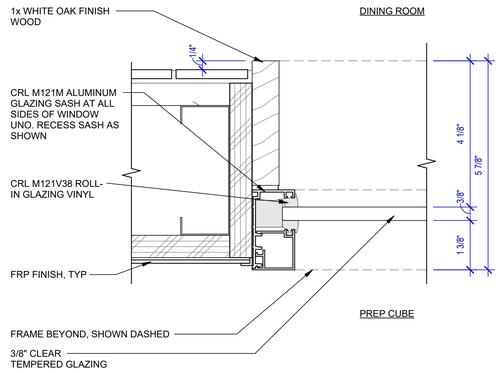
REV.	DATE	DESCRIPTION
1	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

INTERIOR DETAILS

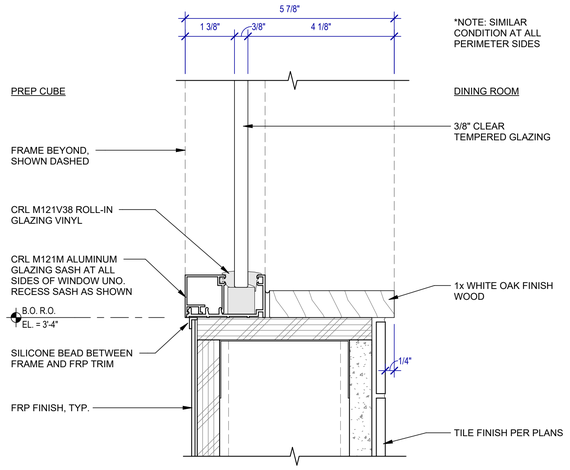
A-330



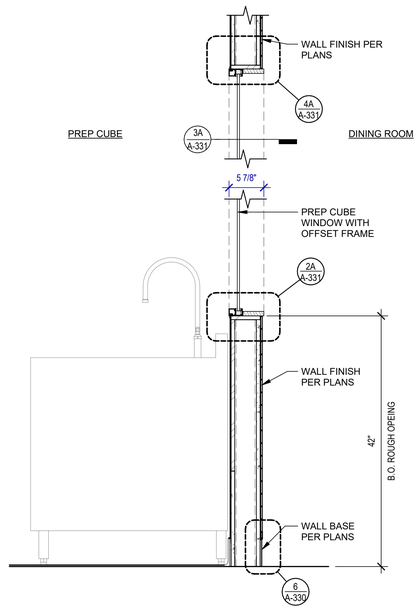
4A PREP CUBE WINDOW TRIM HEADER
6" = 1'-0"



3A PREP CUBE WINDOW TRIM JAMB
6" = 1'-0"



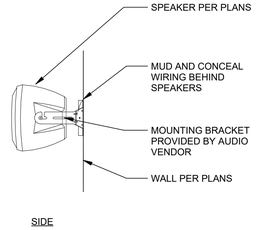
2A PREP CUBE WINDOW TRIM SILL
6" = 1'-0"



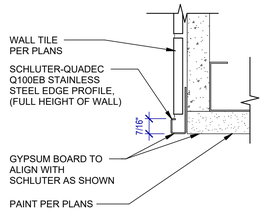
1A PREP CUBE WINDOW
1" = 1'-0"

10 TILE / WOOD DETAIL
6" = 1'-0" ; REFERENCED ON SHEET A-210

7 POLYCRETE BASE AT SS FINISH
3" = 1'-0" ; REFERENCED ON SHEET A-220

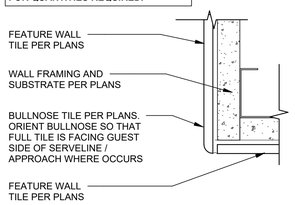


9 TYPICAL SPEAKER MOUNT
1 1/2" = 1'-0"



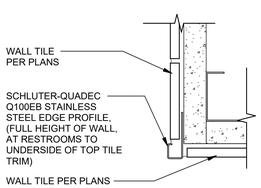
8 TYPICAL TILE/GYP. CORNER
6" = 1'-0" ; REFERENCED ON SHEET A-120

NOTE: REFER TO FINISH PLAN AND ELEVATIONS FOR LOCATION(S) OF BULLNOSE TILE TRIM. REFER TO TILE TRIM SCHEDULE ON SHEET A-121 FOR QUANTITIES REQUIRED.

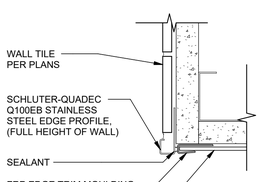


7B TILE/TILE CORNER - BULLNOSE
6" = 1'-0"

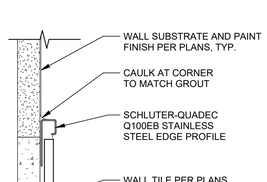
NOTE: TYPICAL TILE OUTSIDE CORNER UNLESS OTHERWISE NOTED. REFER TO FINISH PLAN FOR ADDITIONAL INFORMATION



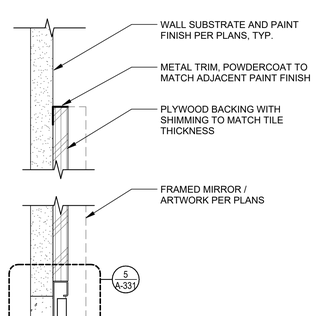
7A TILE/TILE CORNER - SCHLUTER
6" = 1'-0" ; REFERENCED ON SHEET A-120



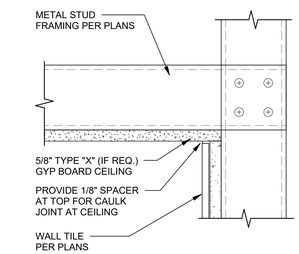
6 TYPICAL TILE/FRP CORNER
6" = 1'-0"



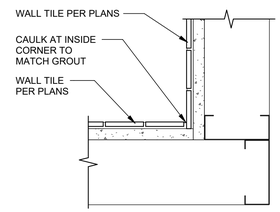
5 SECTION- RESTROOM TILE WAINSCOT
6" = 1'-0" ; REFERENCED ON SHEET A-331



4 BLOCKING BEHIND RR MIRROR / ARTWORK
6" = 1'-0" ; REFERENCED ON SHEET A-200



3 TYPICAL WALL TILE/CEILING
3" = 1'-0"



2 TYPICAL TILE/TILE INSIDE CORNER
3" = 1'-0"

7/29/2025 4:50:20 PM

sg

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3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ARCHITECT OF RECORD:

Bergmeyer

BOS	COL	LA
-	-	-
51 Sleeper St. 6th Floor Boston, MA 02210 617.542.1025	875 N High St. Suite 300 Columbus, OH 43215 380.900.8887	360 E 2nd St. Suite 300 Los Angeles, CA 90012 213.337.1090

STAMP:

07/25/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	MN/SL/SN
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

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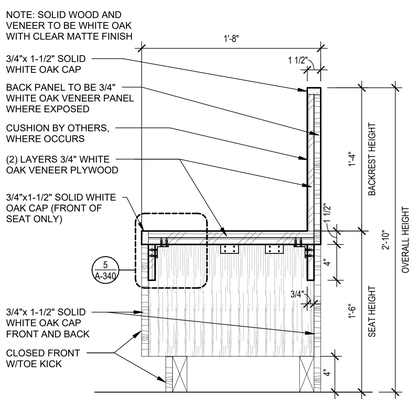
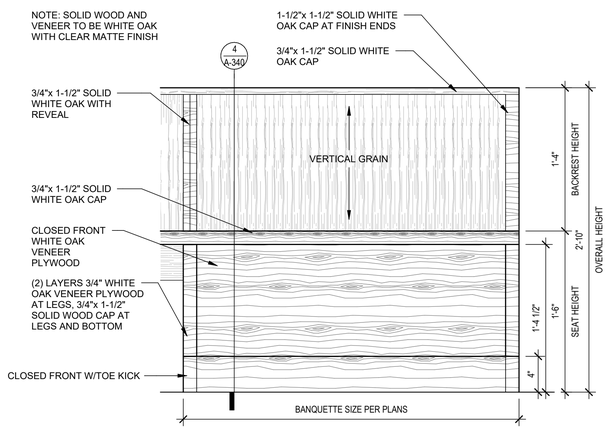
INTERIOR DETAILS

A-331

8 SECTION - CASED OPENING TRIM
3" = 1'-0"

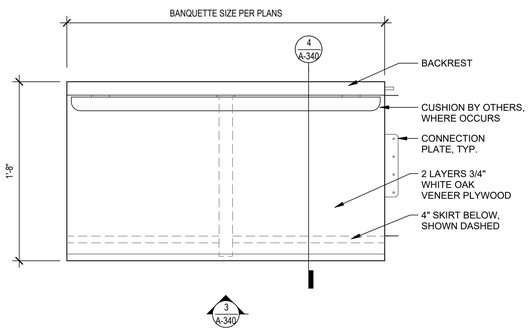


4 SECTION - BANQUETTE
1 1/2" = 1'-0"

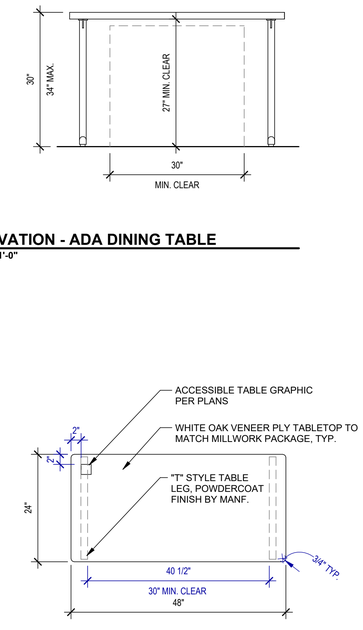


3 ELEVATION - LINEAR BANQUETTE
1 1/2" = 1'-0"

5 ENLARGED SECTION DETAIL - BANQUETTE SKIRT
3" = 1'-0"



2 PLAN - LINEAR BANQUETTE
1 1/2" = 1'-0"



9A PLAN - ADA DINING TABLE
3/4" = 1'-0"

9B ELEVATION - ADA DINING TABLE
3/4" = 1'-0"

sg

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MILLWORK DETAILS

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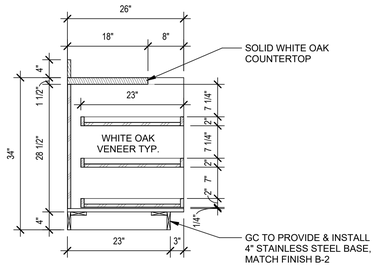
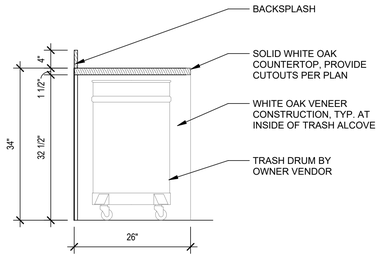
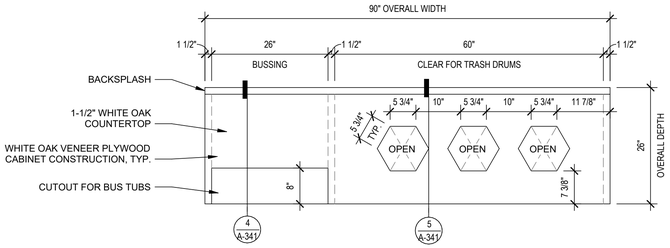


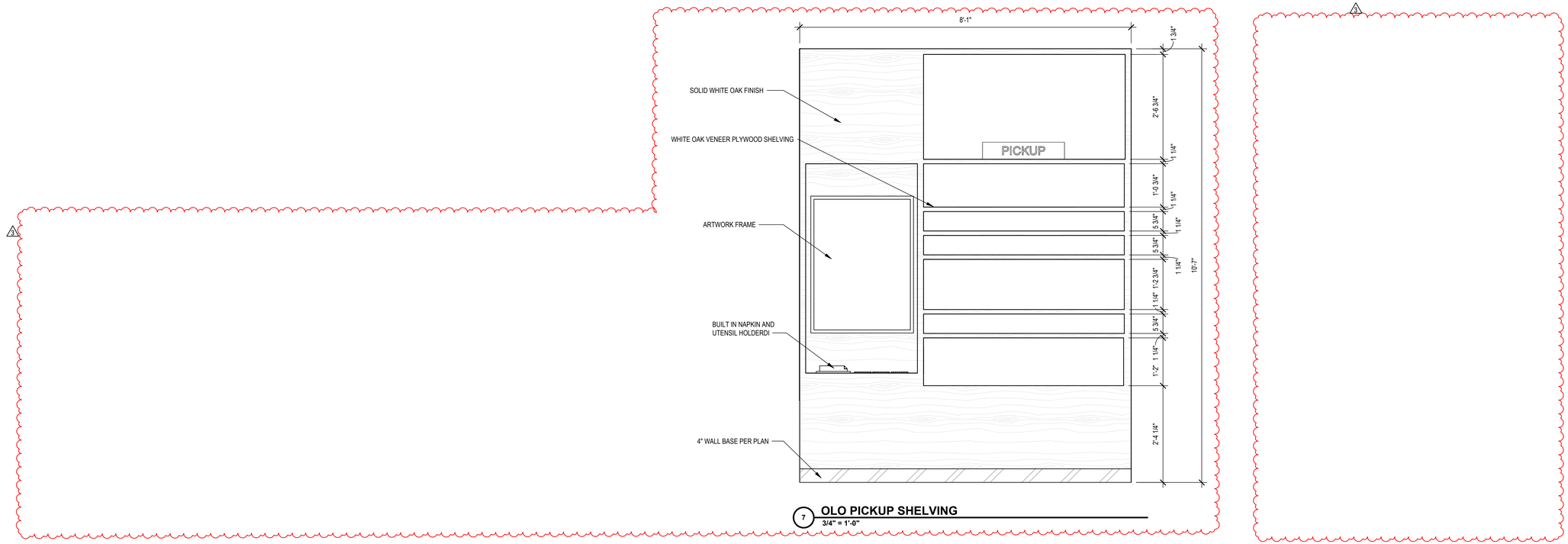
4 **SECTION - TRASH & BUSSING STATION**
3/4" = 1'-0"



5 **SECTION - TRASH & BUSSING STATION**
3/4" = 1'-0"



3 **PLAN - TRASH & BUSSING STATION**
3/4" = 1'-0"



7 **OLO PICKUP SHELVING**
3/4" = 1'-0"

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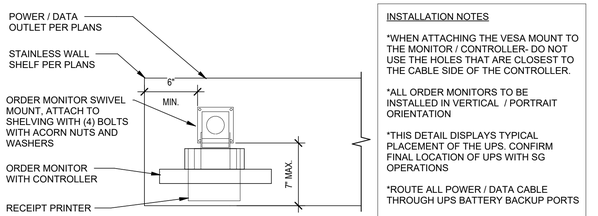
MILLWORK DETAILS

A-341



INSTALLATION NOTES

*WHEN ATTACHING THE VESA MOUNT TO THE MONITOR / CONTROLLER- DO NOT USE THE HOLES THAT ARE CLOSEST TO THE CABLE SIDE OF THE CONTROLLER.

*ALL ORDER MONITORS TO BE INSTALLED IN VERTICAL / PORTRAIT ORIENTATION

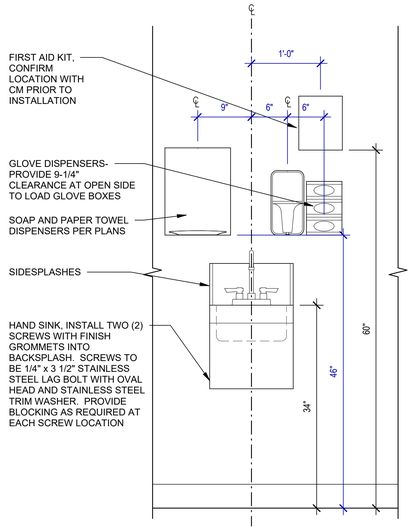
*THIS DETAIL DISPLAYS TYPICAL PLACEMENT OF THE UPS. CONFIRM FINAL LOCATION OF UPS WITH SG OPERATIONS

*ROUTE ALL POWER / DATA CABLE THROUGH UPS BATTERY BACKUP PORTS

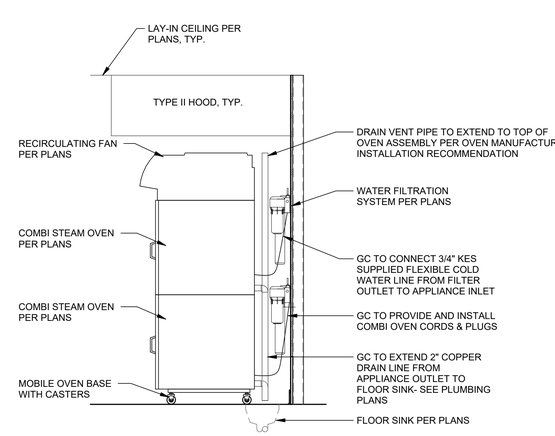
*USE SPLIT LOOM TO PROTECT ALL CABLES AS THEY PASS THROUGH STAINLESS HARDWARE OPENINGS

*AFTER INSTALL, SEND PHOTOS OF FRONT, MOUNTING AND CABLING TO SUPPORT@DOUBLELINESOLUTIONS.COM FOR VERIFICATION

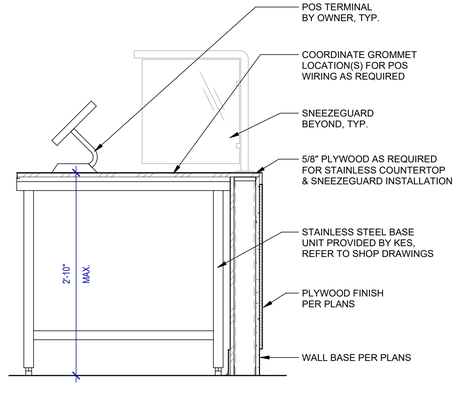
7 PLAN DETAIL @OLO ORDER MONITOR INSTALLATION
1 1/2" = 1'-0"



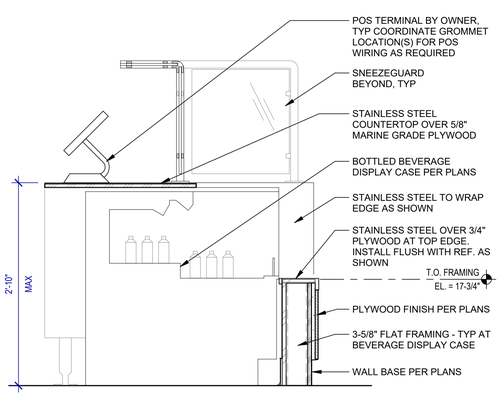
6 TYPICAL HANDSINK
1" = 1'-0"



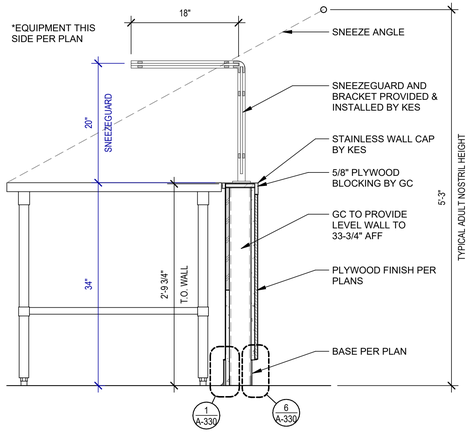
5 TYPICAL COMBI OVEN CONNECTIONS
1/2" = 1'-0"



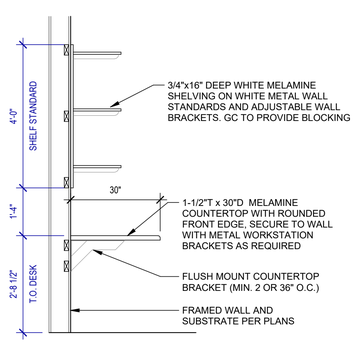
3 ADA ACCESSIBLE POS STATION
1" = 1'-0"



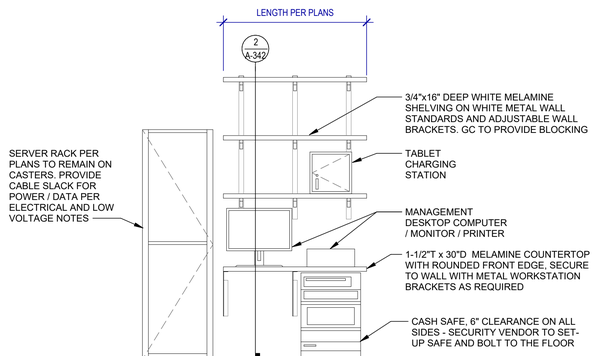
3B POS STATION WITH DISPLAY CASE
1" = 1'-0"



3A SERVELINE CLADDING
1" = 1'-0"

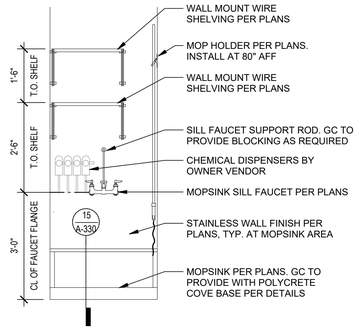


2 MANAGEMENT DESK/ SHELVING SECTION
1/2" = 1'-0"



1 MANAGEMENT DESK & SHELVING
1/2" = 1'-0"

9 CEILING MOUNT WIRELESS ACCESS POINT
1" = 1'-0"



8 ELEVATION - TYPICAL MOPSINK
1/2" = 1'-0"

sg

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LOS ANGELES, CALIFORNIA 90018

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KITCHEN DETAILS

A-342

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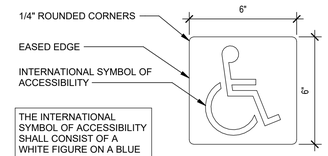
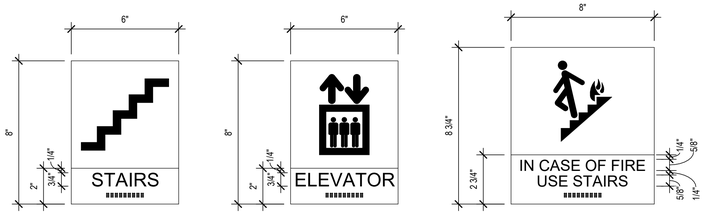


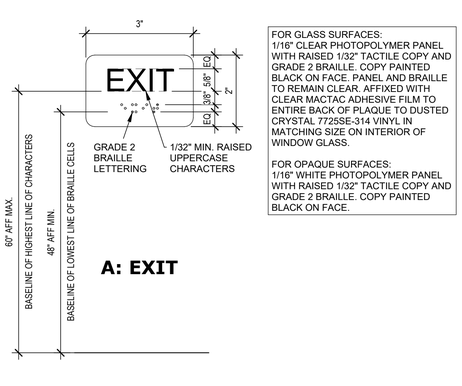
8 **ACCESSIBILITY SYMBOL 6x6**
3" = 1'-0"

6 **OCCUPANCY LOAD**
3" = 1'-0"

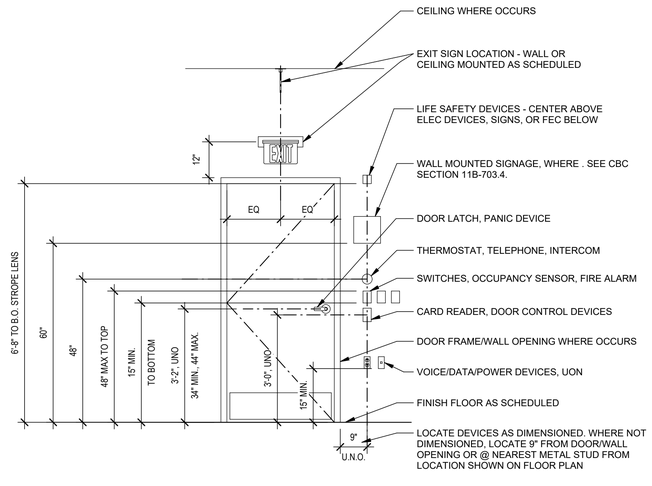
5 **ENTRY DOOR EXIT SIGNAGE**
1 1/2" = 1'-0"



4 **SIGN TYPES**
3" = 1'-0"



3 **TACTILE EGRESS SIGNAGE**
6" = 1'-0"



1 **SIGNAGE & ELEC. MOUNTING HEIGHTS**
1/2" = 1'-0"

7/29/2025 4:50:22 PM

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SAFETY AND ACCESSIBILITY GRAPHICS

A-360

GENERAL NOTES

A. ALL ARTWORK & GRAPHICS SHOWN ARE PROVIDED BY OWNER AND INSTALLED BY GC.

B. ALL SIGNAGE MUST BE INSTALLED WITH A LEVEL, AND BE APPLIED COMPLETELY STRAIGHT.

C. ALL SIGNAGE TO BE MOUNTED WITH PROVIDED DOUBLE STICK TAPE

D. ALL SIGNS ON THIS SHEET SWEETGREEN FURNISHED & GC INSTALLED, U.N.O.

ART & GRAPHICS SCHEDULE- "G"

SCHEDULE NOTES:

1. SCHEDULE QUANTITIES ARE DERIVED FROM THE DRAWING SOFTWARE AND ARE NOT TO BE USED FOR ORDERING MATERIALS OR EQUIPMENT WITHOUT VERIFICATION. IT IS THE RESPONSIBILITY OF THE SUB-CONTRACTORS, VENDORS AND/OR SWEETGREEN TO VERIFY QUANTITIES PRIOR TO PURCHASING OR AUTHORIZING PURCHASES FOR THE PROJECT. QUANTITIES SHOWN DO NOT ACCOUNT FOR WASTE OR OVERAGE. CUSTOM ELEMENTS ARE NOTED WITH AN "X" PREFIX.
2. SEE SAFETY AND ACCESSIBILITY GRAPHICS FOR ADDITIONAL REQUIREMENTS.
3. GC TO PROVIDE BLOCKING AND ANCHOR ALL FRAMED ARTWORK TO WALL WITH "T-LOCK" HARDWARE AND PROVIDE BEAD OF SILICONE SEALANT AT PERIMETER BETWEEN FRAME AND WALL.

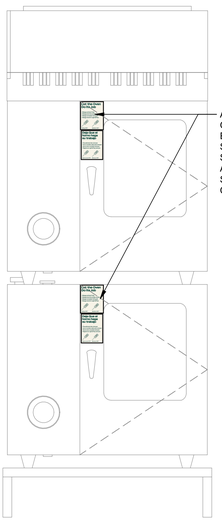
TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY	INSTALL	REMARKS
200- EXTERIOR POST OPENING GRAPHICS							
G 200	2	DOOR VINYL	SIGNAGE VENDOR	SG-1556	OWNER	GC	REFER TO DOOR DETAILS FOR APPLICATION
300- INTERIOR GRAPHICS							
G 301	5	1.75"x7" HANDWASHING SIGNAGE	BY OWNER	SG-002	OWNER	GC	REFER TO ELEVATIONS FOR MOUNTING HEIGHT LOCATION AND APPLICATION
G 306	2	1.75"x7" NO SMOKING SIGNAGE	BY OWNER	SG-226	OWNER	GC	REFER TO ELEVATIONS FOR MOUNTING HEIGHT LOCATION AND APPLICATION
G 310	2	CLIPBOARD ON SNEEZE GUARD	BY OWNER		OWNER	GC	REFER TO ELEVATIONS FOR MOUNTING HEIGHT LOCATION AND APPLICATION
G 311	1	ADA SNEEZE GUARD CLING	BY OWNER		OWNER	GC	REFER TO ELEVATIONS FOR MOUNTING HEIGHT LOCATION AND APPLICATION
G 312	2	ADA TABLE VINYL	BY OWNER		OWNER	GC	REFER TO ELEVATIONS FOR MOUNTING HEIGHT LOCATION AND APPLICATION
G 316	3	BOH HANDWASHING SIGNAGE	BY OWNER		OWNER	GC	REFER TO ELEVATIONS FOR MOUNTING HEIGHT LOCATION AND APPLICATION
G 390	2	RECTANGULAR ADA RESTROOM SIGN	COMPLIANCE SIGNS	RRE-120-WHTonBHMA BLU	OWNER	GC	MOUNT C.O. SIGN @ 60" AFF
G 399	1	SWEETGREEN STORY PLAQUE	BY OWNER		OWNER	GC	REFER TO ELEVATIONS FOR MOUNTING HEIGHT LOCATION AND APPLICATION
400- WALL ART							
G 400	4	26"x32" FRAMED WALL ART	BY OWNER	BY OWNER	OWNER	GC	GC TO PROVIDE BLOCKING
G 401	1	36"x46" FRAMED WALL ART- DREAM DINNER SERIES	BY OWNER	BY OWNER	OWNER	GC	GC TO PROVIDE BLOCKING
G 402	1	FOUNDER'S PHOTO FRAMED WALL ART	BY OWNER	BY OWNER	OWNER	GC	GC TO PROVIDE BLOCKING
500- EXTERIOR SIGNAGE							
G 507	2	SG HEX BLADE SIGN	SIGNAGE VENDOR	CUSTOM	OWNER	OWNER	
G 541	2	NEON INSET CHANNEL LETTERS- GREEN	SIGNAGE VENDOR	CUSTOM	OWNER	OWNER	GC TO PROVIDE POWER & ACCESS

ATTACH TO EVERY FRIDGE IN BOH, PLACE AT EYELINE OF TEAM MEMBERS AND ENSURE VISIBILITY

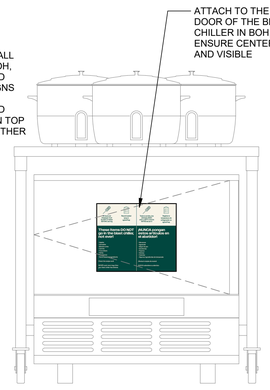
12 **FRIDGE NRO SIGNAGE**
1" = 1'-0"

ATTACH TO SURFACE ABOVE OR NEXT TO DISHPIT IN WAREWASH, SHOULD BE VISIBLE BUT IN AN AREA IT WILL NOT GET TOO WET

11 **DISHPIT NRO SIGNAGE**
1" = 1'-0"

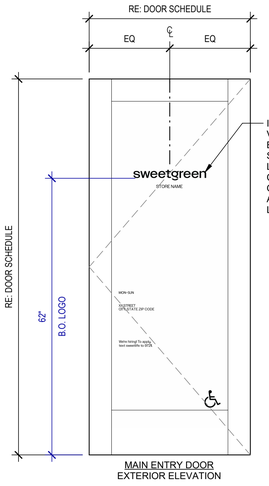


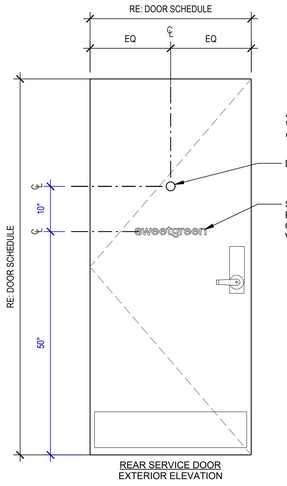
10 **OVEN NRO SIGNAGE**
1" = 1'-0"



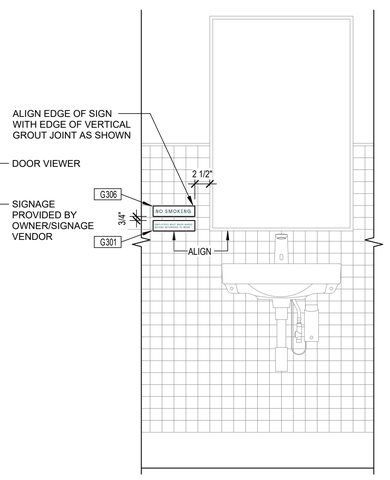
9 **BLAST CHILLER NRO SIGNAGE**
1" = 1'-0"

8 **ROBOT COUPE NRO SIGNAGE**
1" = 1'-0"

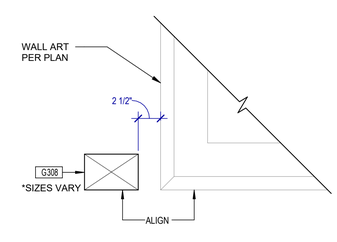




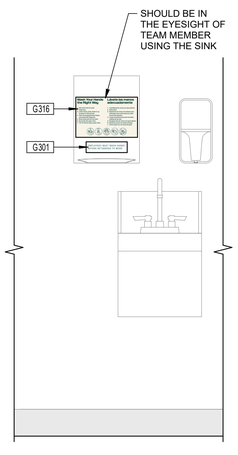
7 **DOOR SIGNAGE**
3/4" = 1'-0"



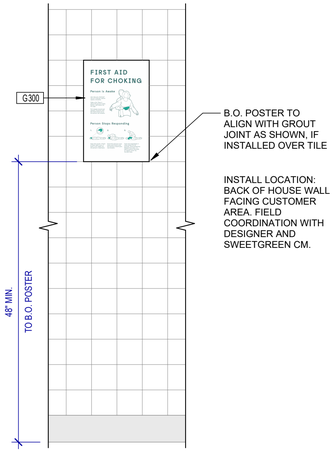
6 **RESTROOM SIGNAGE**
1" = 1'-0"



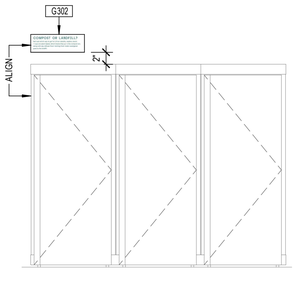
5 **ART PLAQUE SIGNAGE**
1 1/2" = 1'-0"



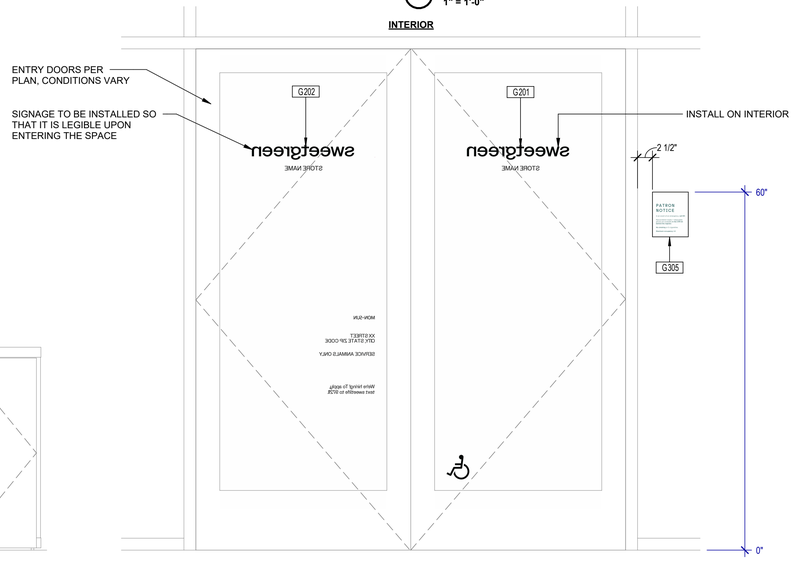
4 **BOH HANDSINK SIGNAGE**
1" = 1'-0"



3 **CHOKING POSTER SIGNAGE**
1" = 1'-0"



2 **TYPICAL COMPOST SIGNAGE**
1" = 1'-0"



1 **TYPICAL DOOR SIGNAGE - INTERIOR**
1" = 1'-0"

7/29/2025 4:50:26 PM

sg

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3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

GRAPHICS COORDINATION

A-361

DOOR, FRAME SCHEDULE

TAG	DESCRIPTION	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	FRAME TYPE	FRAME HW SET	NOTES
101B	EXISTING STOREFRONT DOOR	D3	3' - 6 5/32"	8' - 0"	1 3/4"	F2	01B	*REUSE OF THE RELOCATED(E) DOOR
102	RESTROOM CIRCULATION		4' - 6 3/32"	7' - 3 1/4"		F3		
103	EAST RESTROOM	D3	3' - 0"	7' - 0"	1 3/4"	F1	03	
104	WEST RESTROOM	D3	3' - 0"	7' - 0"	1 3/4"	F1	03	
107	OPERATIONS ROOM	D3.1	3' - 0"	7' - 3 1/4"		F3	05	
109	BOH ENTRANCE	D1	3' - 0"	7' - 0"	1 3/4"	F1	02	
114	STOREFRONT SINGLE DOOR	D4	3' - 10 1/32"	8' - 11 5/8"	1 3/4"	F2	01B	*MATCH EXISTING ADJACENT STOREFRONT FINISH

GENERAL NOTES

A. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED. "APPLIES ALSO TO EXIT GATES". THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. ***(1003.3.1.8)***
B. EXIT HARDWARE ON THE EXTERIOR EXIT DOORS OF THIS BUILDING SATISFIES THE REQUIREMENTS OF SECTION ***1003.3.1.9***
C. GC SHALL POST A SIGN ADJACENT TO THE REQUIRED MAIN EXIT DOOR WITH 1" LETTERING STATING: "THIS DOOR MUST REMAIN UNLOCKED WHEN OCCUPIED" MAIN EXIT ONLY. ***(1003.3.1.8)***
D. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
E. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN CASE OF AN EMERGENCY.
F. ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
G. 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.
H. THE BOTTOM 10 INCHES OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING, SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
I. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR, LOW-E, AND INSULATED.
J. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "T".
K. GC TO PROVIDE 10 KEYS ON TURNOVER, WITH WALL MOUNTED KEY BOX FOR OFFICE, SIZED TO HOLD ALL KEYS.
L. VINYL GRAPHICS SUPPLIED BY OWNER, INSTALLED BY GC.
M. LANDINGS AT DOORS TO HAVE A MAXIMUM SLOPE OF 1:48
N. WITH THE EXCEPTION OF THE OPERATIONS ROOM, ALL DOORS TO BE KEYED ALIKE.
O. GC TO PROVIDE LOCKBOX AT FRONT AND REAR DOORS.
P. ALL OPERABLE PORTIONS OF DOOR HARDWARE TO BE LOCATED BETWEEN 34" AND 48" AFF

DOOR HARDWARE SCHEDULES

DOOR HARDWARE SCHEDULE 01 (STOREFRONT ENTRY- PAIR EXTERIOR)

QTY.	ITEM	MANUFACTURER	MODEL NO.
2	DOOR CLOSER	LCN	CONCEALED CLOSER MODEL 2034
1	MORTISE CYLINDER	SCHLAGE	80-103, C.O. CYLINDER @ 22" FROM B.O. DOOR
1	TEMPORARY CORE	SCHLAGE	80-035, INTERCHANGEABLE CORES
2	CONTINUOUS HINGE	HAGER	780-224HD
1	DEADLOCK	ADAMS RITE	MS1850S-210-335
1	EXIT INDICATOR	ADAMS RITE	4089
4	DOOR PULL	BY OWNER	CUSTOM WOOD/METAL OFFSET PULL
2	DOOR STOP	ROCKWOOD	MODEL 462
2	DOOR SWEEP	PEMKO	MODEL SFSC-200-36 (36" DOOR)
1	SADDLE THRESHOLD	PEMKO	172
2	DOOR PANIC HARDWARE	VON DUPRIN	MODEL 8827 - TL RIM EXIT DEVICE WITH VERTICAL RODS

DOOR HARDWARE SCHEDULE 01B (NEW STOREFRONT ENTRY- SINGLE WITH PANIC HARDWARE)

QTY.	ITEM	MANUFACTURER	MODEL NO.
1	DOOR CLOSER	LCN	CONCEALED CLOSER MODEL 2034
1	CONTINUOUS HINGE	HAGER	780-224HD
1	RIM EXIT DEVICE	DORMAKABA	MODEL 8000, C.O. DEVICE @ 38" FROM B.O. DOOR
1	DOOR PULL	BY OWNER	CUSTOM WOOD/METAL OFFSET PULL
1	DOOR STOP	ROCKWOOD	MODEL 462
1	DOOR SWEEP	PEMKO	MODEL SFSC-200-36 (36" DOOR)
1	THRESHOLD	PEMKO	172
2	DOOR PANIC HARDWARE	VON DUPRIN	MODEL 8827 - TL RIM EXIT DEVICE WITH VERTICAL RODS

DOOR HARDWARE SCHEDULE 02 (SERVICE DOOR- EXISTING- FIRE RATED DOOR PER 2018 NCBN TABLE 716.5)

QTY.	ITEM	MANUFACTURER	MODEL NO.
1	DOOR CLOSER	EXISTING	EXISTING
1	LOCKSET	EXISTING	EXISTING
1	PANIC HARDWARE	EXISTING	EXISTING
3	HINGES	EXISTING	EXISTING
1	DOOR VIEWER	EXISTING	EXISTING
2	KICKPLATE	EXISTING	EXISTING
1	DOOR STOP	EXISTING	EXISTING
1	DOOR SILENCER	EXISTING	EXISTING
1	DOOR SWEEP	EXISTING	EXISTING
1	THRESHOLD	EXISTING	EXISTING
1	WIRELESS DOOR CHIME	TRINE	233 - WIRELESS PLUG-IN TYPE.

DOOR HARDWARE SCHEDULE 04 (OFFICE DOOR)

QTY.	ITEM	MANUFACTURER	MODEL NO.
1	DOOR CLOSER	DORMAKABA	7414AR
1	CLASSROOM LOCKSET	SCHLAGE	ALX70P, SATURN
3	HINGES	STANLEY	FBB179
2	KICKPLATE	HIAWATHA	KP8X34-32D
1	DOOR STOP	DON-JO	1407-630-US26D
1	DOOR SILENCER	IVES	SR64

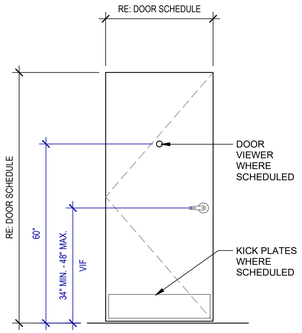
DOOR HARDWARE SCHEDULE 03 (RESTROOM)

QTY.	ITEM	MANUFACTURER	MODEL NO.
1	DOOR CLOSER	DORMAKABA	7414AR
1	PUSH/PULL PLATES	IVES	8200/8305-4X16-US26D-AM
1	OCCUPANCY INDICATOR	SCHLAGE	L9040 06A L583-363 L283-722
3	HINGES	STANLEY	FBB179
2	KICKPLATE	HIAWATHA	KP8X34-32D
1	DOOR STOP	DON-JO	1407-630-US26D
1	DOOR SILENCER	IVES	SR64

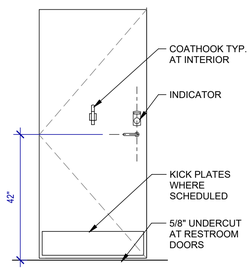
DOOR HARDWARE SCHEDULE 05 (SLIDING DOOR)

QTY.	ITEM	MANUFACTURER	MODEL NO.
1	FRAMING & TRACK SET	JOHNSON HARDWARE	1500 SERIES; POCKET DOOR FRAME FOR 2X4 WALLS
1	EDGE MOUNT PULL	RAJACK DESIGNS, LTD	FE172-US26, SATIN CHROME, 6-1/4" EDGE PULL
1	FLUSH MOUNT PULL	RAJACK DESIGNS, LTD	RJ575-5" SATIN CHROME
1	DOOR SILENCER	IVES	SR64

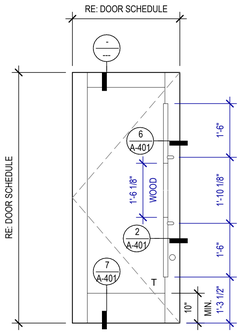
DOOR TYPES



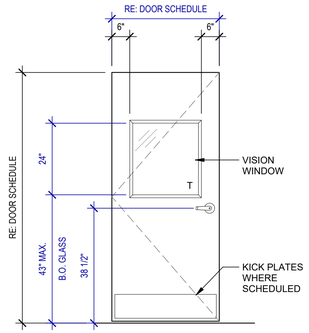
DOOR TYPE D1
HOLLOW METAL DOOR (EXISTING)



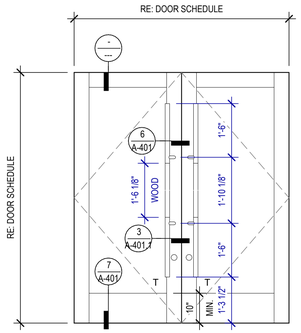
DOOR TYPE D3
HOLLOW METAL RESTROOM DOOR



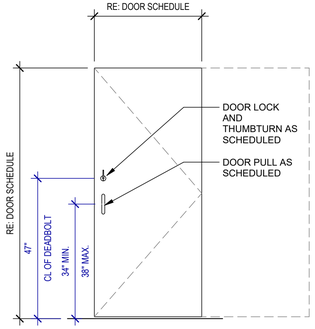
DOOR TYPE D4
STOREFRONT DOOR



DOOR TYPE D6
HOLLOW METAL DOOR WITH VISION WINDOW

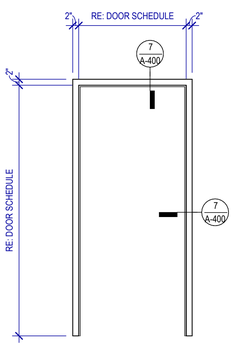


DOOR TYPE D7
DBL STOREFRONT DOOR

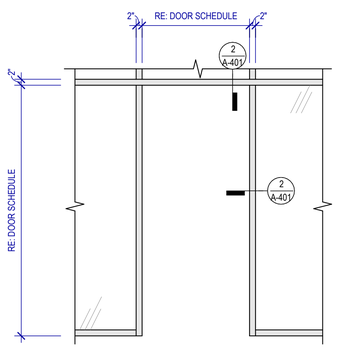


DOOR TYPE D3.1
HOLLOW METAL SLIDING DOOR

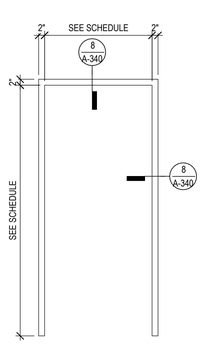
FRAME TYPES



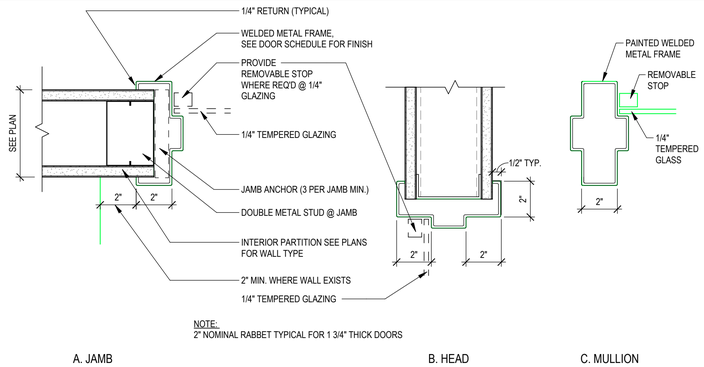
FRAME TYPE F1
HOLLOW METAL



FRAME TYPE F2
STOREFRONT



FRAME TYPE F3
WOODEN CASED OPENING



NOTE:
2" NOMINAL RABBET TYPICAL FOR 1 3/4" THICK DOORS

A. JAMB B. HEAD C. MULLION

7 **DOOR FRAME**
3" = 1'-0"

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CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

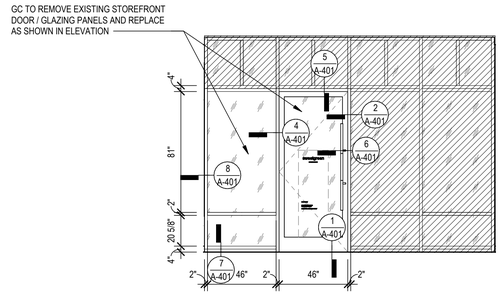
REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

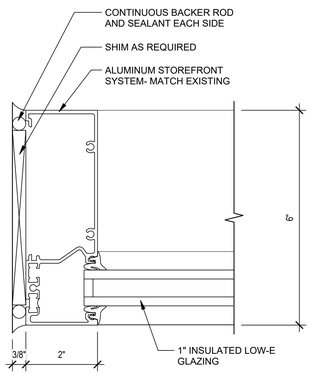
DOORS & WINDOWS

A-400

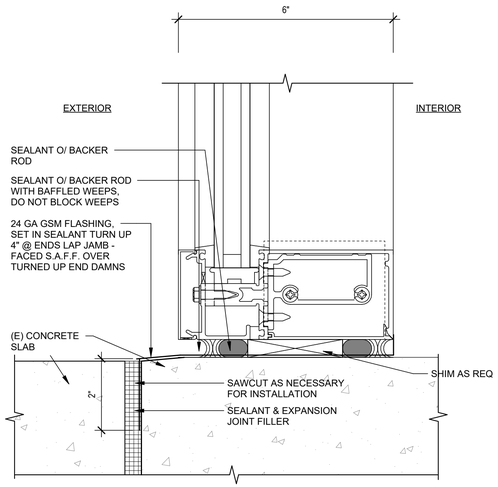
7/29/2025 4:50:30 PM



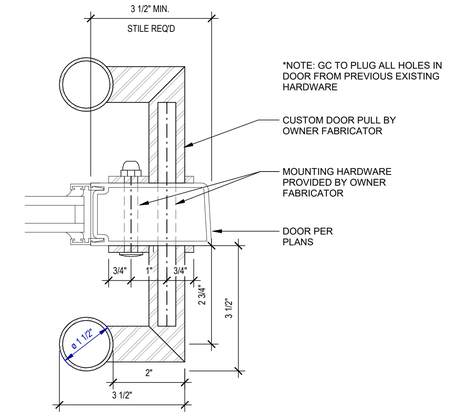
10 PROPOSED STOREFRONT SOUTH VIEW - B
1/4" = 1'-0"



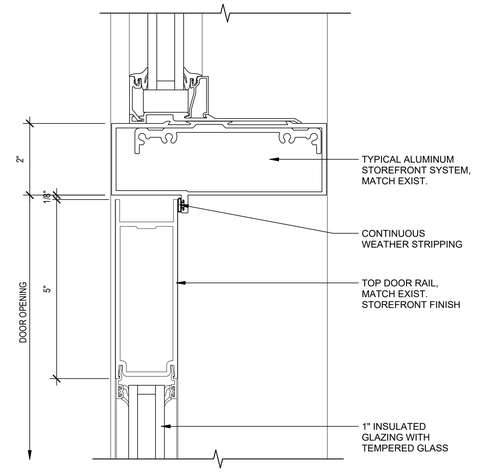
8 STOREFRONT JAMB
6" = 1'-0"



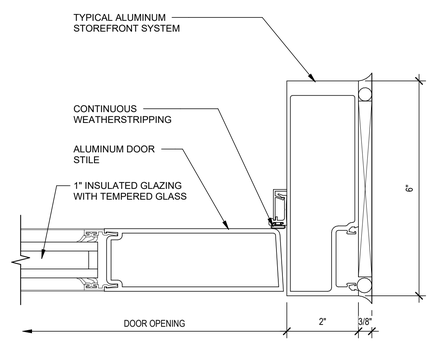
7 NEW STOREFRONT SILL
6" = 1'-0"



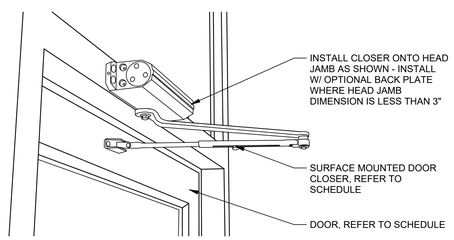
6 PLAN - CUSTOM SG DOOR PULL
6" = 1'-0"



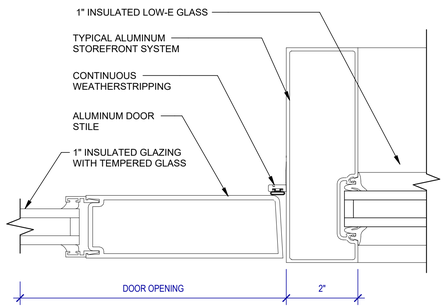
5 DOOR HEAD W/ TRANSOM
6" = 1'-0"



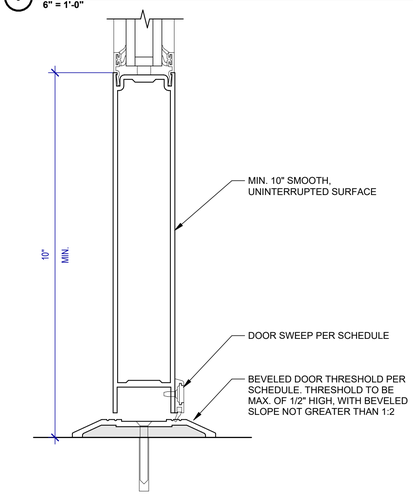
4 STOREFRONT DOOR JAMB
6" = 1'-0"



3 DOOR CLOSER
1/4" = 1'-0"



2 STOREFRONT DOOR JAMB
6" = 1'-0"



1 DOOR THRESHOLD
6" = 1'-0"

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sg

sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ARCHITECT OF RECORD:

Bergmeyer

BOS
-
51 Sleeper St.
6th Floor
Boston, MA 02210
617.542.1025

COL
-
875 N High St.
Suite 300
Columbus, OH 43215
380.900.8887

LA
-
360 E 2nd St.
Suite 300
Los Angeles, CA 90012
213.337.1090

STAMP:

07/25/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123
CHARLOTTE, NC 28205

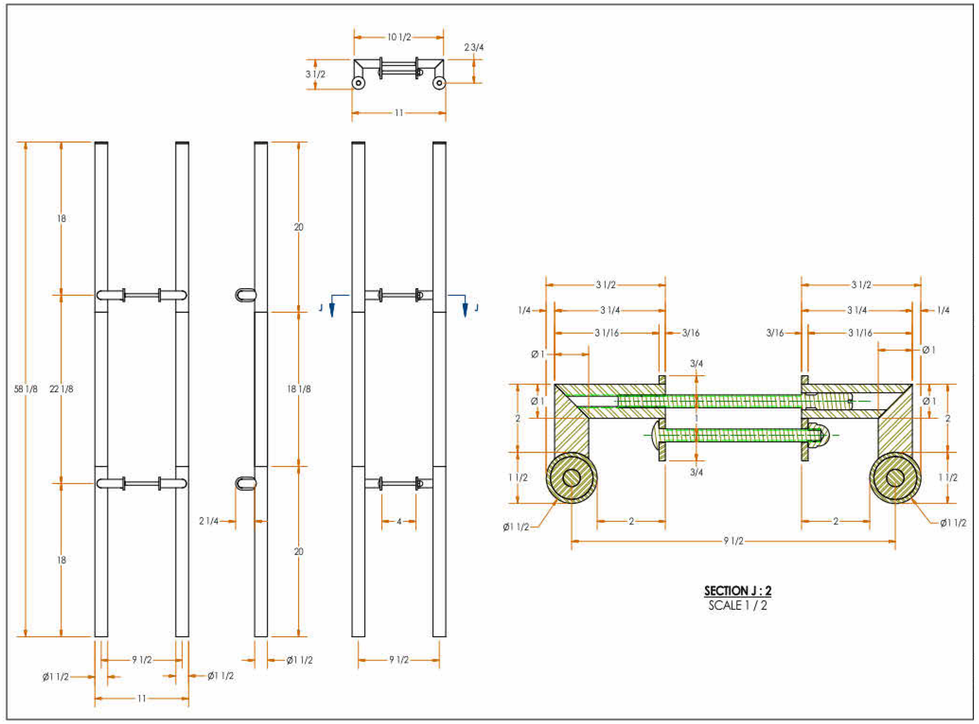
DRAWN BY:	MN/SL/SN
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

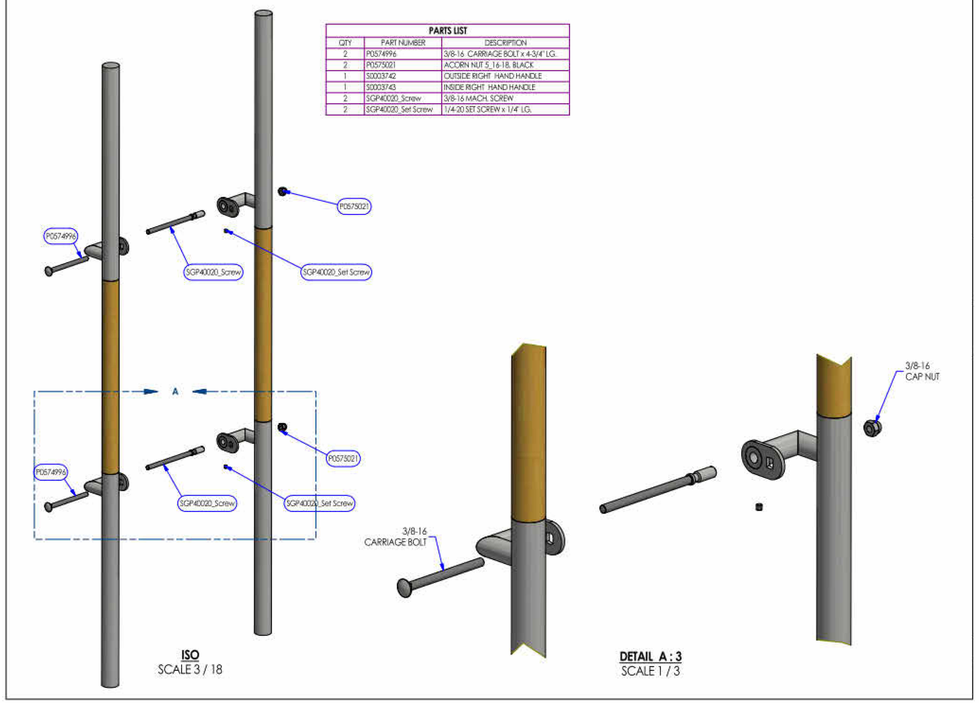
DOOR & STOREFRONT DETAILS

A-401



SECTION J : 2
SCALE 1 / 2

PARTS LIST		
QTY	PART NUMBER	DESCRIPTION
2	P0574996	3/8-16 CARRIAGE BOLT x 4-3/4" LG.
2	P0575021	ACORN NUT 5_16-18, BLACK
1	S0003742	OUTSIDE RIGHT HAND HANDLE
1	S0003743	INSIDE RIGHT HAND HANDLE
2	SGP40020_Screw	3/8-16 MACH. SCREW
2	SGP40020_Set Screw	1/4-20 SET SCREW x 1/4" LG.

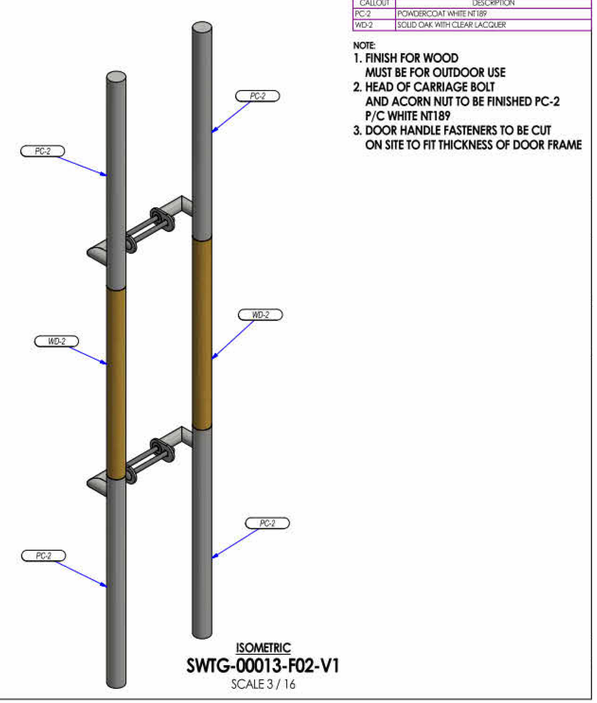


ISO
SCALE 3 / 18

DETAIL A : 3
SCALE 1 / 3

FINISH SCHEDULE	
CALLOUT	DESCRIPTION
PC-2	POWDERCOAT WHITE NT 189
WD-2	SOLID OAK WITH CLEAR LACQUER

NOTE:
1. FINISH FOR WOOD MUST BE FOR OUTDOOR USE
2. HEAD OF CARRIAGE BOLT AND ACORN NUT TO BE FINISHED PC-2 P/C WHITE NT189
3. DOOR HANDLE FASTENERS TO BE CUT ON SITE TO FIT THICKNESS OF DOOR FRAME



ISOMETRIC
SWTG-00013-F02-V1
SCALE 3 / 16

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sg

sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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SWEETGREEN DOOR HANDLE DETAILS

A-402

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

INVITATION

1.01 BID SUBMISSION

A. Bids signed, executed, and dated will be received at the office of sweetgreen Construction Manager or at the address/email provided by the sweetgreen Construction Manager.
B. Offers submitted after the above time may be returned to the bidder or disregarded.
C. Submit required Supplements To Bid Forms within 24 hours after closing time for receiving bids.
D. Amendments to the submitted offer will be permitted if received in writing prior to bid closing and if endorsed by the same party or parties who signed and sealed the offer.

1.02 CONTRACT TIME

A. Identify Contract Time in the Bid Form. The completion date in the Agreement shall be the Contract Time added to the commencement date.
B. Perform the Work in ____ calendar days.
C. sweetgreen Construction Manager requires that the work of this contract be completed as quickly as possible and consideration will be given to time of completion when reviewing the submitted bids.

BID DOCUMENTS AND CONTRACT DOCUMENTS

2.01 CONTRACT DOCUMENTS

A. **sweetgreen requests that contract documents NOT be uploaded or provided to public plan services. Distribution of plans by Bidder to sub-contractors and suppliers should be through a private portal on the internet or in paper form.**

2.02 AVAILABILITY

A. Bid Documents may be obtained at the office of sweetgreen Construction Manager .

2.03 INQUIRIES/ADDENDA

A. Direct questions to sweetgreen Construction Manager and Architect , via email; provided on cover sheet.
B. Addenda may be issued during the bidding period. All Addenda become part of Contract Documents. Include resultant costs in the Bid Amount.
C. Verbal answers are not binding on any party.
D. Clarifications requested by bidders must be in writing **not less than 7 days before date set for receipt of bids** . The reply will be in the form of an Addendum, a copy of which will be forwarded to known recipients .

2.04 PRODUCT/ASSEMBLY/SYSTEM SUBSTITUTIONS

A. Substitute products will be considered if submitted as an attachment to the Bid Form and will be approved by sweetgreen. Provide bid for specified product, substitute to be considered as a volunteered alternate. Approval to submit substitutions prior to submission of bids is not required.
B. In submission of substitutions to products specified, bidders shall include in their bid all changes required in the work and changes to Contract Time and Contract Sum to accommodate such substitutions. A later claim by the bidder for an addition to the Contract Time or Contract Sum because of changes in work necessitated by use of substitutions shall not be considered.
C. The submission shall provide sufficient information to determine acceptability of such products.
D. Provide complete information on required revisions to other work to accommodate each proposed substitution.
E. Provide products as specified unless substitutions are submitted in this manner and accepted.

BID SUBMISSION

3.01 SUBMISSION PROCEDURE

A. Submit one copy of the executed offer on the Bid Forms provided, signed and sealed in a closed opaque envelope, clearly identified with bidder's name, project name and sweetgreen Construction Manager's name on the outside. Electronic submittal is approved with paper copy forwarded by US Postal Service or via Express Delivery methods.

3.02 BID INELIGIBILITY

A. Bids are by invitation, only from selected bidders. Bids from unsolicited bidders will be returned.

BID ENCLOSURES/REQUIREMENTS

4.01 BID FORM SIGNATURE

A. The Bid Form shall be signed by the bidder:

4.02 SELECTION AND AWARD OF ALTERNATES

A. Indicate variation of bid price for Alternates listed on the Bid Form. Unless otherwise indicated, indicate Alternates as a difference in bid price by adding to or deducting from the base bid price.
B. **Bids will be evaluated on the base bid price.** After determination of a successful bidder, consideration will be given to Alternates and bid price adjustments.

OFFER ACCEPTANCE/REJECTION

5.01 DURATION OF OFFER

A. Bids shall remain open to acceptance and shall be irrevocable for a period of thirty (30) days after the bid closing date.

5.02 ACCEPTANCE OF OFFER

A. sweetgreen Construction Manager reserves the right to accept or reject any or all offers.
B. After acceptance by sweetgreen Construction Manager the successful bidder will be notified via a written Bid Acceptance.

SECTION 00 3100
AVAILABLE PROJECT INFORMATION

PART 1 GENERAL

1.01 EXISTING CONDITIONS

A. Certain information relating to existing conditions and structures is available to bidders but will not be part of Contract Documents, as follows:
   1. Existing or "as-built" drawings of the building and/or previous tenant improvements
B. Site Report: As prepared by JSD Professional Services and the Architect of Record. The reports contains information about the Authority(s) Having Jurisdiction and observations made during an evaluation of the project.
C. Copies of information from the Landlord will be made available as required in the lease and as directed to the General Contractor
   1. Construction Requirements as directed by the Landlord
   2. List of Required Sub-Contractors and Vendors
   3. Work Letter
D. Asbestos or Hazardous Material Survey: When required for building permit or due to the age and condition of the building.

1.02 PERMITS

A. sweetgreen Construction Manager has obtained the following permits and/or approvals, that are required to be secured prior to commencement of construction work on this project:
   1. Planning commission approvals (where and when required).
   2. Historic Preservation commission approvals (where and when required).
   3. Demolition Permit.
   4. Building Permit including Mechanical, Plumbing, and Electrical. All other trade permits are the responsibility of the General Contractor and/or other trades..
   5. Specialty permits and/or approvals are the responsibility of the trade whether part of the General Construction Contract or provided by the Owner. .
      a. **Examples of permits not covered by the Building Permit would include signage, low voltage wiring, sound, walk-in cooler, water heater, fire sprinkler and alarm, patio permits, and waste management.**

PART 2 PRODUCTS (NOT USED)
PART 3 EXECUTION (NOT USED)

3.01 OBTAINMENT OF PERMITS

A. Building Permit Procedures of the General Contractor: When required to obtain this permit:
   1. Complete and file permit application(s) with appropriate agency for any submittal requirements of the General Contractor and their Sub-Contractors. This would include but not be limited to License(s), Insurance/Bond, Workman's Compensation, etc.
   2. Pay required fees.

END OF SECTION
SECTION 00 4100
BID FORM

THE PROJECT AND THE PARTIES

1.01 TO:

A. sweetgreen Construction Manager
   1. 3102 West 36th Street
      Los Angeles, CA 90018

1.02 FOR:

A. sweetgreen Tenant Improvements
B. Project Location _____
   _____

1.03 DATE: _____ (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

A. Bidder's Full Name _____
   1. Address _____
   2. City, State, Zip_____

1.05 OFFER

A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by Architect of Record for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
B. _____ dollars ($_____), in lawful money of the United States of America.
C. All applicable city, state, and federal taxes are included and taxes are included in the Bid Sum.

1.06 ACCEPTANCE

A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.
B. If this bid is accepted by sweetgreen Construction Manager and sweetgreen within the time period stated above, we will:
   1. Execute the Agreement within seven days of receipt of Notice of Award.

1.07 CONTRACT TIME

A. If this Bid is accepted, we will:
B. Complete the Work in _____ calendar weeks from Notice to Proceed. (Bidder to enter number of weeks.)

1.08 CHANGES TO THE WORK

A. When Architect establishes that the method of valuation for Changes in the Work will be net cost plus a percentage fee in accordance with General Conditions, our percentage fee will be:
   1. _____ percent overhead and profit on the net cost of our own Work;
   2. _____ percent on the cost of work done by any Subcontractor.
B. On work deleted from the Contract, our credit to sweetgreen shall be sweetgreen construction manager-approved net cost plus one hundred percent of the overhead and profit percentage noted above.

1.09 ADDENDA

A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
   1. Addendum # _____ Dated _____.
   2. Addendum # _____ Dated _____.

1.10 BID FORM SIGNATURE(S)

A. _____
B. (Bidder - print the full name of your firm)
C. _____
D. (Authorized signing officer, Title)
E. _____
F. (Authorized signing officer, Title)

END OF SECTION

SECTION 00 7100
CONTRACTING DEFINITIONS

PART 1 GENERAL

1.01 APPLICABILITY: THESE DEFINITIONS ARE INTEGRAL TO THE AGREEMENT.

1.02 DEFINITIONS

A. Construction Documents: The work we want performed is clearly indicated on the plans and specifications. The Architect, who has had plenty of college, has spent a lot of time drawing up these plans and specifications, but nobody can think of everything. Once your bid is submitted to the Owner, the Contractor is obliged to the following rule: anything wanted by the Architect, the Owner, or any of his friends, or anybody else except the Contractor shall be considered as shown, specified, intended, or implied, and shall be provided by the Contractor without any expense to anyone except the Contractor.
B. If the work is done without extra expense to the Contractor, then the work will be taken down and done over again until the extra expense to the Contractor is satisfactory to the Architect.
C. The contract drawings are intended to be correct. If drawn wrong it should be discovered by the Contractor, corrected, and done right at his own expense. It won't cut any ice with the Owner or the Architect if the Contractor points out the mistakes which the Architect has drawn on the plans.
D. The Contractor is not supposed to make fun of the Architect, his plans, or specifications. If he does, then the same consequence shall apply as stated in Paragraph C above.
E. Any Contractor walking around the job site with a smile on his face will be subject to a review of his bid.
F. If the Contractor doesn't find all the Architect's mistakes prior to making his bid on this job, or if he doesn't have enough sense to know that the Architect is going to think up a bunch of new stuff that has to be done before the job can be deemed complete, then the Contractor shall provide any such items without extra expense to the Tenant or Architect..
G. Any evidence of satisfaction on the part of the Contractor shall be considered as just cause for withholding final payment.
H. You can **DISREGARD** the above provisions of Contracting Definitions 00-7100 as they were placed in the specifications to determine if the Bidders actually read the specifications for content. All other specification sections are valid and will become a part of the contract documents.

PART 2 PRODUCTS - NOT USED
PART 3 EXECUTION - NOT USED

END OF SECTION

DIVISION 01 0000
GENERAL REQUIREMENTS

PART 1 - GENERAL

1.01 GENERAL

A. General requirements of this contract are as per the AIA contracts forms provided by sweetgreen as part of the Construction Documents by reference and will have the same force and effect as though the General Conditions were bound within.
   1. a. A104-2017 Standard Form of Agreement Between Owner and Contractor
   2. b. G701 - 2017 Change Order
   3. c. G702 and G703 - 2017 Application and Certificate of Payment and Continuation Sheet
   4. d. G704 - 2017 Certificate of Substantial Completion
   5. e. G716 - 2004 Request for Information
B. Contractors are presumed to be familiar with the AIA documents. A copy may be obtained from the owner's Construction Manager/Project Manager (PM).
C. All persons intending to provide goods and services in connection with this project's work are advised to read and understand the reference documents prior to proceeding.
D. Supplementary General Conditions: Insurance: Contractor's liability insurance shall include the Architect and their consultants as additional insured.

1.02 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. Landlord Conditions of Construction or Rules and Regulations of the Owner.
   2. sweetgreen instructions to Bidders.
B. Definitions:
   1. The term "Landlord or LL" used in these documents refers to the building Owner/Landlord.
   2. The term "Tenant or Owner" used in these documents refer to the restaurant Tenant, sweetgreen.
   3. The term "Project Manager (PM) or Construction Manager (CM)" used in these documents refers to the Tenant's representative responsible for coordindation of the work on behalf of the Tenant.
   4. The term "Design Manager (DM)" used in these documents refers to the Tenants' representative responsible for design decisions for the work on behalf of the Tenant.
   5. The term "Contractor or General Contractor (GC)" used in these documents refers to the entity responsible for performing the Work under Construction Contract for sweetgreen.
   6. The term "Architect or AOR" refers to the Architect of Record
   7. The term "Engineer or EOR" refers to the Engineers of Record (Mechanical, Electrical, and Structural)
   8. The term "AHJ or Authority Having Jurisdiction" refers to the governing agency that regulates, inspects, and/or permits the construction of the restaurant.

1.03 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 to the bidding documents.

1.04 SPECIAL CONDITIONS

A. Tenant General Contractor (GC) shall visit the job site prior to submitting bid. The bid shall be based upon the work indicated in the construction documents and upon the Contractor's knowledge of and familiarity with Tenant's project design requirements and project site existing conditions. Any discrepancies between information indicated in these drawings and Contractor's understanding of the Tenants's requirements shall be brought to the attention of the Tenant and the Architect for resolution, or GC shall be responsible for any additional cost incurred.
B. The GC shall meet with an authorized representative of the Landlord and shall review Landlord construction requirements. GC shall coordinate its work with the Landlord with regard to temporary utilities, allowable material, traffic routes, storage of tools and materials, use of toilet facilities, hours in which work is allowed, noise and dust control, cleanup and other matters requiring adherence to Landlord requirements when applicable.
C. GC shall review with the Landlord's representative the manner in which all connections to structure will be made, any penetrations in the building envelope or structure shall be reviewed with the Landlord and approved in writing. If the Landlord requires that portions of work be performed by it's own contractor, GC shall not incur all costs associated with that portion of the work unless stated otherwise in writing by the Owner.
D. All existing conditions and dimensions are based upon information furnished by the Landlord and/or as observed by Tenant and the Architect. An discrepancies are to be submitted to the Tenant in writing no later than **five (5) working days prior to the bid due date** . Discrepancy during bidding will be handled by addendum during the Architect's visit to the site. Any discrepancy found on the drawings shall be brought to the attention of the Architect
   a. Due to limitations of accessibility of job site conditions and components, not all existing conditions have been documented in these drawings. It may be necessary for the GC to perform partial or exploratory demolition to ascertain any existing conditions that might preclude the project from being built as shown. Insofar as possible the items in question will be indicated on the demolition plan. It is incumbent upon the GC to research and verify these conditions as soon as possible and report the findings to the Owner, Tenant, and Architect for resolution.
   b. GC to submit to the Architect sketches with notes and dimensions or annotated copies of the construction drawing in part or in whole to assist in clarifying issues to be resolved.
E. Discrepancies or unforeseen circumstances found during construction are to be immediately brought to the attention of the Tenant and Architect in writing. GC is responsible for all problems not accurately reflected. Discrepancies during construction will be handled by change orders. GC to submit to the Architect sketches with notes and dimensions or annotated copies of the construction drawing in part or in whole to assist in clarifying issues to be resolved.
F. GC will be responsible for all costs incurred for noncompliance with these contract documents. GC will not be allowed change orders for problems arising from GC's neglect of the provisions included in these conditions.
G. GC shall accomplish all work in accordance with local codes and ordinances, authorities having jurisdiction and in compliance with the restrictions and requirements of the landlord.
H. GC shall remove all construction rubbish, scaffolding, equipment, temporary protection, temporary field structures, and anything else that was required in connection with the construction, but not a permanent part thereof.
I. GC shall maintain orderly housekeeping during the process of construction, and upon completion shall thoroughly clean all areas. Final cleanup shall include the following: sweep, damp mop, and wax resilient flooring (see spec); dust, dirt, paint drippings, oil, grease, and other blemishes shall be cleaned and removed from all surfaces, including piping and equipment; windows, glass units, glass doors and mirrors shall be removed of paint overruns and putty smears; hardware shall be rubbed clean with a flannel cloth as applicable and shall be performed per manufacturer's recommendations
J. GC shall be responsible to the Landlord for any damage occurred to any of the Landlord's facility before, during or after construction; damage caused by the Contractor, his employees or his subcontractors. GC shall repair to the satisfaction of Landlord.
K. Manufacturers on specified items are noted for quality and design. GC may substitute "equal" products subject to approval by the Tenant and Architect in writing unless noted as "no substitutions allowed". GC is encouraged to submit alternative "equal" products for consideration of the Tenant and Architect in an effort to reduce the construction costs. All reasonable requests will be reviewed by the Tenant and Architect for compliance with the intent of the products originally specified.
L. All product and materials shall be installed in strict conformance with the manufacturer's published recommendations. GC shall provide a copy of manufacturer's installation recommendations to the Tenant.
M. Applicable standards of the construction industry have some force and effect on performance of the work as if copied directly into contract documents or bound and published therewith. Comply with standards in effect as of the date of contract documents, unless otherwise indicated.
N. All scaffolding shall be built in accordance with requirements of all federal, state, and local laws. All temporary shoring required for the removal of existing work for the installation of new work shall be included in the contract. Contractor shall be responsible for this work and shall make good any damage caused by improper support or failure of shoring in any respect.
O. GC shall provide and maintain full insurance as required by the general conditions and the Landlord. Evidence of insurance shall be provided to the Tenant before payments shall commence to the Contractor.
P. Upon completion of the work, GC shall compile and deliver to the Tenant a complete set of record documents. This set of documents shall consist of record specifications and record drawings showing the reported location of the work, including, but not limited to name, address & phone numbers of all contractors and all balance reports.
Q. While this information is believed to be reliable, the Architect cannot assure its accuracy, and thus is not responsible for the accuracy of this record drawing or for any errors and omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.
R. During performance of work, GC is responsible for provision and maintenance of warning signs, light signal devices, guard lights, barricades, guard rails, fences and other devices as appropriately located on and around the job site which will give proper and understandable warning to all persons with regard to hazardous conditions, equipment and operation being performed in conjunction with the GC's work. All warning devices shall comply with O.S.H.A. and other applicable governmental regulations as required for the construction procedures and conditions encountered.
S. Insofar as job site safety is concerned, the Architect is responsible solely for his own and his employees' activities on the job site, but this shall not be construed to relieve the Owner, Tenant, or any construction contractors from their responsibilities for maintaining a safe job site. Neither the professional activities of the Architect, nor the presence of the Architect or his employees and subconsultants, shall be construed to imply the Architect has any responsibility for methods of work performance, superintendent, sequencing of construction, or safety in, on, or about the job site. The Owner and Tenant agrees that the GC is solely responsible for job site safety and warrants that the Architect shall be made an additional insured under the GC's general liability insurance policy.
T. The Tenant's representative shall review shop drawings submissions solely for their conformance with the Architect's design intent and conformance with information given in the construction documents. The Tenant's representative shall not be responsible for any aspects of a shop drawing submission that affect or are affected by the means, methods, techniques, sequences and operations of the construction, safety precautions and programs incidental thereto, all of which are the Contractor's responsibility. The Tenant warrants that the Contractor shall be made aware of his responsibilities to review shop drawings in these respects before submitting them to the Tenant's representative.

1.05 SPECIAL PROJECT PROCEDURES

E. Administration of Contract:
   The Tenant's "Construction Manager" will act as Tenant's representative for purposes of administration of the contract.
B. Tenant-furnished items:
   1. Many items indicated are Furnished by Tenant, Installed by Contractor (FOIC); Furnished by Contractor Installed by Contractor (FCIC), or furnished by Tenant and installed by Tenant (FOIO). See responsibility matrix for a complete list.
   2. Contact Tenant's Construction Manager for additional information and to coordinate resolution of any problems concerning FOIC items.
C. Building Codes and Standards:
   1. All work to conform to all applicable local, state, and national codes and ordinances.
   2. Conform to Landlord requirements, as stated in their Tenant Criteria, regarding type, location, and loading of all items under this contract that are attached to structure.
   3. Obtain and acknowledge receipt of the **Tenant Criteria** and become familiar with all construction rules and procedures as set forth by the Landlord and Authorities Having Jurisdiction (AHJ) prior to commencing work.
C. Insurance Purchase and maintain, per article 11 of AIA General Conditions A201, the following insurance:
   Worker's compensation and employer's liability insurance as required by any employee benefit act or the statutes applicable where the work is to be performed, as will protect Contractor from any and all liability under the aforementioned acts, but not less than $2,000,000.
   Comprehensive general liability insurance (including Owner and Contractor for future liability insurance) with the following limits of liability

Bodily injury liability, each occurrence -	$2,000,000
Bodily injury liability, aggregate -	$2,000,000
Property damage liability, each occurrence -	$ 500,000
Property damage liability, aggregate -	$ 500,000
Personal injury liability, aggregate -	$2,000,000

   Damage to property of others, arising from its operations under the contract, whether such operations are performed by Contractor or by anyone directly or indirectly employed by the Contractor. Such insurance shall provide for explosion and collapse coverage and contractual liability coverage, and shall insure Contractor against any and all claims for personal injury, including death resulting therefrom and

   Comprehensive automobile liability insurance including the ownership, maintenance and operation of any automotive equipment owned, hired, and not owned in the following minimum amounts:

Bodily injury liability, each person -	$ 500,000
Bodily injury liability, aggregate -	$1,000,000
Property damage liability, each occurrence -	$ 500,000

   Whether such operations are performed by Contractor or by anyone directly or indirectly employed by the Contractor. Such insurance shall insure Contractor against any and all claims for bodily injury, including death resulting therefrom and damage to the property of others arising from its operations under its contract with Owner,
   Builders' risk completed value form affording "all risks of physical loss or damage" on its work in the premises as it relates to the building in which the premises are located, naming the interests of General Contractor and all subcontractors as their respective interests may appear, within a radius of 100 feet of the premises. Amount of insurance shall equal one hundred percent (100%) of the replacement cost.

   General Contractor to provide Owner with "Certificate of Insurance" prior to start of construction.
   All such insurance policies required shall include Owner, Landlord, Architect, subcontractors, as additional insured; except worker's compensation insurance, which shall contain an endorsement waiving all rights of subrogation against the Landlord, iArchitect, iGeneral Contractor, and subcontractors. (Certificates shall not be canceled or allowed to expire without at least thirty (30) days prior written notice to Landlord, Architect and Owner.) Additional insurance as required by the Landlord as indicated in the Tenant Criteria.

END OF SECTION

SECTION 01 1950
PERFORATED PASTRY UNITS
PART 1 GENERAL

1.01 DESCRIPTION:

A. Contractor shall provide perforated pastry units for each construction meeting that occurs during the construction period.
B. The words 'perforated pastry unit,' 'perforated pastry product,' 'doughnut,' and 'donut' are used interchangeably.

MINIMUM REQUIREMENTS:

A. Consumption and Quality: Minimum requirements are established in this specification by the Architect/Engineer, who is the sole judge of compliance, unless mediation is required.
B. Regulatory requirements:
   1. American Council on Jelly and Cream Fillings
   2. Amalgamated Millers of America
C. It is the intent of this Specification to call for finished perforated pastry units, complete and ready for consumption. Any incidental accessories necessary to make the perforated pastry units more palatable or to enhance their appearance shall be provided without additional expense to the Owner. Should there appear to be questionable intent in these Specifications, the Architect/Engineer shall be consulted for clarification no later than two (2) hours prior to each construction meeting.
D. Contractor's attention is called to the fact that the long tradition of perforated pastry products as a construction meeting comestible, and the recognized value to any construction process.
   1. Owner, Architect/Engineer, and Contractor eating together in an environment of harmony and goodwill, leads to the inevitable conclusion that the perforated pastry products assume an importance far out of proportion to their expense to the Contractor. Contractor is urged to ensure quality of product and presentation, to respect the hallowed process, and to take a conservative and time-tested approach to the selection of the perforated pastry products so that no alarmingly modern or boutique products are offered to the table.
E. The manufacturer shall regularly and presently produce perforated pastry units.
F. "Manufactured' is defined as:
   1. A privately- or publicly-held corporation specializing in the manufacture of perforated pastry units; for example, a bakery or franchise store.
G. OWNERSHIP AND CONSUMPTION:
   1. All pastry units are the property of the Contractor until the breaking of the packaging seal, when the units and accessories become the property of the Architect/Engineer and/or Tenant. Such transfer of ownership does not void or limit the Contractor's responsibilities specified under the WARRANTY.
   2. Consumption of the perforated pastry units is initially restricted to the Architect/Engineer and Tenant ("First Dibs"). The Architect/Engineer shall indicate when consumption may become general.
   3. Warranty: Fully guarantee all units under this section for a period of one (1) construction meeting, against imperfect workmanship or failure of materials due to faulty workmanship.
   4. Out-of-specification or rejected products shall immediately become the property of the Subcontractors.

PART 2 PRODUCTS

3.01 MANUFACTURED UNITS:

A. The manufacturer(s) specified are to establish design intent and level of quality. Equal units of other manufacturers may be submitted for prior approval.
B. Approved equal: manufacturers who are believed by the Contractor to meet the requirement of these specifications, and whose merits can be established by thorough sampling by the Architect/Engineer, will be considered. Submit to the Architect/Engineer for approval minimum one week prior to the scheduled construction meeting.
   1. Pre-packaged products are prohibited,

3.02 FRESHNESS:

A. All perforated pastry units shall have been made no earlier than 3 AM local time on the day of each construction meeting.

PERFORATED PASTRY UNIT SCHEDULE:

YEAST-RAISED	CAKE	OTHER
TRADITIONAL	TRADITIONAL	STRUDEL
TWIST	OLD-FASHIONED	DANISH
FILLED	CRULLER	CINNAMON ROLLS
ÉCLAIR	DEVIL'S FOOD	COFFEE CAKE
BEARCLAW		TURNOVERS
GLAZING SCHEDULE		
POWDER	GRANULAR	ICING
SUGAR	SUGAR	WHITE
CINNAMON	CANDY SPRINKLES	CHOCOLATE
	CHOCOLATE SPRINKLES	MAPLE
	CHOPPED NUTS	STRAWBERRY

FILL SCHEDULE:

CREME	FRUIT
CUSTARD	LEMON
BAVARIAN	STRAWBERRY
DULCE DE LECHE	BLUEBERRY

QUANTITY AND DIVERSITY:

4.01 TWO PACKAGES OF TWELVE (12) PERFORATED PASTRY UNITS EACH.

A. THE DIVERSITY FACTOR OF EACH PACKAGE OF (12) UNITS SHALL NOT BE LESS THAN 1/6; I.E. EACH PACKAGE SHALL CONTAIN MINIMUM SIX UNIQUE PERFORATED PASTRY PRODUCT CHOICES. THIS RATIO SHALL BE MAINTAINED FOR THE ENTIRE DELIVERY QUANTITY; IF MORE THAN ONE PACKAGE IS PROCURED, IT IS PREFERABLE THAT SIMILAR UNITS BE COMMONLY PACKAGED TO REDUCE THE RISK OF CO-MINGLING INCOMPATIBLE GLAZING MATERIALS.

5.01 ACCESSORIES:

A. A Coffee: Site-brewed from ground coffee, immediately before each scheduled construction meeting.
   1. Water may be offered, but only in addition to coffee.
   2. Napkins: White, high-absorbent, embossed-border, twice-folded, minimum 4" square. Roll towels are prohibited. Holiday colors are permitted two weeks prior and one day after each holiday.

PART 3 EXECUTION

PERFORATED PASTRY UNITS, COFFEE, AND SPECIFIED ACCESSORIES AND CUPS SHALL BE PLACED WITHIN ARM'S REACH OF THE ARCHITECT/ENGINEER ON A TABLE LARGE ENOUGH TO ACCOMMODATE CONSTRUCTION MEETING MATERIALS WITHOUT CROWDING OR RISK OF SPILL.

END OF SECTION

SECTION 01 2000
PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SCHEDULE OF VALUES

A. Use Schedule of Values Form: AIA G703, edition stipulated in the Agreement.

1.02 APPLICATIONS FOR PROGRESS PAYMENTS

A. Payment Period: Submit at intervals stipulated in the Agreement.
B. Use Form AIA G702 and Form AIA G703, edition stipulated in the Agreement.
C. Execute certification by signature of authorized officer.
D. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed .
E. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of work.
F. Submit one electronic and one hard-copies of each Application for Payment.

1.03 MODIFICATION PROCEDURES

A. For minor changes not involving an adjustment to the Contract Sum or Contract Time, Architect will issue instructions directly to General Contractor.
B. For other required changes, Architect will issue a document signed by sweetgreen Construction Manager instructing General Contractor to proceed with the change, for subsequent inclusion in a Change Order.

1.04 APPLICATION FOR FINAL PAYMENT

A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.

END OF SECTION

SECTION 01 2500
SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 DEFINITIONS

A. Substitutions: Changes from Contract Documents requirements proposed by General Contractor to materials, products, assemblies, and equipment.
   1. Substitutions for Cause: Proposed due to changed Project circumstances beyond General Contractor's control.
      a. Unavailability.
      b. Regulatory changes.
   2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project.
      a. Substitution requests offering advantages solely to the General Contractor will not be considered.

PART 2 PRODUCTS - NOT USED
PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
   1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
   2. Agrees to provide the same warranty for the substitution as for the specified product.
   3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
   4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to sweetgreen Construction Manager.
   5. Waives claims for additional costs or time extension that may subsequently become apparent.
   6. Agrees to reimburse sweetgreen Construction Manager and Architect for review or redesign services associated with re-approval by authorities.
B. A Substitution Request for specified installer constitutes a representation that the submitter:
   1. Has acted in good faith to obtain services of specified installer, but was unable to come to commercial, or other terms.
C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
D. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
E. Limit each request to a single proposed substitution item.

3.02 RESOLUTION

A. sweetgreen may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.
B. sweetgreen will notify General Contractor in writing of decision to accept or reject request.
   1. Architect's decision following review of proposed substitution will be noted on the submitted form.

3.03 ACCEPTANCE

A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

END OF SECTION

SECTION 01 3000
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL - NOT USED
PART 2 PRODUCTS - NOT USED
PART 3 EXECUTION

3.01 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the work at maximum weekly intervals.
B. Make arrangements for meetings, **prepare agenda with copies for participants** , preside at meetings.
C. Attendance Required:
   1. General Contractor Project Manager
   2. sweetgreen Construction Manager Construction Manager
   3. Architect. (When approriate to the project schedule and status)
   4. General Contractor's superintendent.
   5. Major subcontractors identified by AOR or sweetgreen necessary to facilitate the current schedule and trade.
D. Record minutes and distribute copies within two days after meeting to participants, with one copies to Architect, sweetgreen Construction Manager, participants, and those affected by decisions made.

3.02 CONSTRUCTION PROGRESS SCHEDULE - SEE SECTION 01 3216

A. Within 3 days after joint review, submit complete schedule.

3.03 WEEKLY CONSTRUCTION REPORTS

A. Include only factual information. Do not include personal remarks or opinions regarding operations and/or personnel.
B. In addition to transmitting electronically a copy to sweetgreen Construction Manager and Architect, submit two printed copies at weekly interval.
C. Prepare a weekly construction report recording the following information concerning events at Project site and project progress:
   1. Date.
   2. High and low temperatures, and general weather conditions.
   3. Safety, environmental, or industrial relations incidents.
   4. Meetings and significant decisions.
   5. Stoppages, delays, shortages, and losses. Include comparison between scheduled work activities (in General Contractor's most recently updated and published schedule) and actual activities. Explain differences, if any. Note days or periods when no work was in progress and explain the reasons why.
   6. Testing and/or inspections performed.
   7. Signature of General Contractor's authorized representative.

3.04 PROGRESS PHOTOGRAPHS

A. Submit new photographs with weekly progress reports, , with

3.05 REQUESTS FOR INTERPRETATION (RFI)

A. Definition: A request seeking one of the following:
   1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space (interference); or when an item of work is described differently at more than one place in Contract Documents.
   2. A resolution to an issue which has arisen due to field conditions and affects design intent.
B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.
C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
   1. Prepare a separate RFI for each specific item.
      a. Do not forward requests which solely require internal coordination between subcontractors.
D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
E. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
   1. Official Project name and number, and any additional required identifiers established in Contract Documents.
   2. sweetgreen Construction Manager's, Architect's, and General Contractor's names.
   3. Issue date, and requested reply date.
   4. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
   5. General Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.
F. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.
G. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
   1. Indicate current status of every RFI. Update log promptly and on a regular bassis.
   2. Note dates of when each request is made, and when a response is received.
H. Review Time: Architect will respond and return RFIs to General Contractor within a time frame appropriate to the reqeust. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
   1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.
I. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in General Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to sweetgreen Construction Manager.
   1. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.

3.06 SUBMITTAL SCHEDULE

A. **Submit to Architect for review a schedule for submittals in tabular format.**
   1. Coordinate with General Contractor's construction schedule and schedule of values.
   2. Format schedule to allow tracking of status of submittals throughout duration of construction.
   3. Arrange information to include scheduled date for initial submittal, submittal category (for review or for information), and description of item of work covered.

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sg
sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ARCHITECT OF RECORD:

Bergmeyer

BOS	COL	LA
1 51 Sleeper St. 6th Floor Boston, MA 02210 617.542.1025	1 875 N High St. Suite 300 Columbus, OH 43215 380.900.8887	1 360 E

SECTION 01 3000 CONTINUED

3.07 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
1. Shop drawings. Only submit those shop drawings requested in the specifications and/or on the plans.
2. Samples for verification to be submitted to sweetgreen Construction Manager. The CM will forward to the sweetgreen Design Manager for review and approval.

B. Submit to sweetgreen and Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.

C. Samples will be reviewed for aesthetic, color, or finish selection.

3.08 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
1. Sustainability design submittals and reports or MSDS sheets for record and closeout book.
2. Test reports.
3. Inspection reports.
4. Other types indicated.

B. Submit for Architect's knowledge as contract administrator or for sweetgreen Construction Manager.

3.09 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 7800 - Closeout Submittals:
1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Redline copy of the project documents indicating location of utilities and any modifications to the drawings .
6. Other types as indicated on the drawings, in the specifications or listed in the Construction Agreement.

D. Submit for sweetgreen Construction Manager's benefit during and after project completion.

3.10 NUMBER OF COPIES OF SUBMITTALS

A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Samples: Submit the number specified in individual specification sections; one of which will be retained by sweetgreen.
1. After review, produce duplicates.
2. Retained samples will not be returned to General Contractor unless specifically so stated.

3.11 SUBMITTAL PROCEDURES

A. General Requirements:

B. Shop Drawing Procedures
1. Prepare accurate, drawn- to-scale, original shop drawing documentation by interpreting the Contract Documents and coordinating related Work.

C. **Apply General Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents. This is to be completed PRIOR to submitting to the AOR or EOR for review.**

D. Schedule submittals to expedite the Project, and coordinate submission of related items.

E. Provide space for General Contractor and Architect Review stamps.

F. When revised for resubmission, identify all changes made since previous submission.

G. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

H. **Submittals not requested will not be recognized or processed** .

3.12 SUBMITTAL REVIEW

A. Submittals for Review: Architect will review each submittal and take appropriate action.

B. Submittals for Information: Architect will not acknowledge receipt, and take no other action. .

C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
1. Notations may be made directly on submitted items and/or listed on appended Submittal Review cover sheet.

D. Architect's and consultants' actions on items submitted for review:
1. Authorizing purchasing, fabrication, delivery, and installation:
a. "Reviewed", or language with same legal meaning.
b. "Reviewed as noted, resubmittal not required.", or language with same legal meaning.
c. "Reviewed as noted, resubmittal for record", or language with same legal meaning.
2. Not Authorizing fabrication, delivery, and installation:
a. "Revise and Resubmit".
1. Resubmit revised item, with review notations acknowledged and incorporated.
1. "Rejected".
1. Submit item complying with requirements of Contract Documents.

1. Architect's and consultants' actions on items submitted for information:
a. Items for which no action was taken:
1. "Received" - to notify the General Contractor that the submittal has been received for record only.
b. Items for which action was taken:
1. "Reviewed" - no further action is required from General Contractor.

END OF SECTION

SECTION 01 3216
CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1.01 SUBMITTALS

A. Within 3 days after date of Agreement, submit preliminary schedule defining planned operations for the Work,.

PART 3 EXECUTION

2.01 CONTENT

A. Prepare schedule in the form of a horizontal bar chart.

2.02 CONTENT

A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.

B. Identify each item by trade or specification number.

C. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the fist day of each month.

D. Provide legend for symbols and abbreviations used.

2.03 BAR CHARTS

A. Include a separate bar for each major portion of Work or operation.

B. Identify the first work day of each week.

2.04 REVIEW AND EVALUATION OF SCHEDULE

A. Participate in joint review and evaluation of schedule with sweetgreen at each submittal or weekly meeting.

B. Evaluate project status to determine work behind schedule and work ahead of schedule.

C. After review, revise as necessary as result of review, and resubmit with 2 days.

2.05 UPDATING SCHEDULE

A. Maintain schedules to record actual start and finish dates of completed activities.

B. Indicate progress of each activity to date of revision, with projected completion of each activity.

2.06 DISTRIBUTION OF SCHEDULE

A. Distribute copies of updated schedules to General Contractor's project site file, to Subcontractors, suppliers, Architect, sweetgreen, and other concerned parties.

B. Instruct recipients to promptly report, in writing, problems anticipated by projections shown in schedules.

END OF SECTION

SECTION 01 3553
SECURITY MEASURES

PART 1 GENERAL

1.01 SECURITY

A. Protect Work, existing premises and sweetgreen's operations from theft, vandalism, and unauthorized entry.

B. Maintain throughout construction period until sweetgreen occupancy.

1.02 ENTRY CONTROL

A. Restrict entrance of persons into Project site and existing facilities.

B. **Allow entrance only to authorized persons** with proper identification.

C. Maintain log of workers and visitors, make available to sweetgreen on request.

END OF SECTION

SECTION 01 4000
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Test Reports: After each test/inspection, promptly submit copies of report to Architect, sweetgreen, and to General Contractor.
1. Test report submittals are for Architect's knowledge for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for sweetgreen Construction Manager's information.

B. Certificates: When specified in individual specification sections, submit certification by the manufacturer and General Contractor or installation/application subcontractor to sweetgreen and Architect, in quantities specified for Product Data.
1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

C. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for sweetgreen Construction Manager's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

1.02 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.

C. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.

D. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

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

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

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

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not complying with specified requirements.

B. If, in the opinion of sweetgreen Construction Manager, it is not practical to remove and replace the work, sweetgreen Construction Manager will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 01 4216
DEFINITIONS

PART 1 GENERAL

1.01 DEFINITIONS

A. Furnish: To supply, deliver, unload, and inspect for damage.

B. Install: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use.

C. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.

D. Provide: To furnish and install.

E. Supply: Same as Furnish.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 4523
TESTING & INSPECTIONS SERVICES – GPR SCANNING
PART 1 GENERAL

1.01 CODES, STANDARDS & DEFINITIONS

A. Occupational Safety and Health Administration Safety and Health Standards Digest Construction Industry (OSHA) - 3149/1996)

B. American Society for Nondestructive Testing, (ASNT). The ASNT is the world's largest technical society for nondestructive testing (NDT) professionals. The society provides a forum for exchange of NDT technical information; NDT educational materials and programs; as well as standards and services for the qualification and certification of NDT personnel.

C. Recommended Practice No. SNT-TC-1A Personnel Qualification and Certification in Nondestructive Testing. This Recommended Practice establishes the general framework for a qualification and certification program. In addition, the document provides the educational experience and training recommendations for different test methods including use and application of ground penetrating RADAR. This recommended practice is not intended to be used as a strict specification. It is recognized, however, that contracts require programs which meet the intent of this document. For such contracts, purchaser and supplier must agree upon acceptability of an employer 's program.

D. Federal Communications Division, (FCC). The Federal Communications Commission (FCC) is an independent United States government agency. The FCC was established by the Communications Act of 1934 and is charged with regulating interstate and international communications by radio, television, wire, satellite and cable. The concrete scanning contractor shall adhere to all applicable safety guidelines in accordance with federal, state, and local ordinances.

1.02 DEFINITIONS

A. Subsurface Investigation Methodology, (SIM) – Set of methods, field motoring, and necessary equipment required for a complete subsurface investigation of a concrete structure resulting in an on-slab mark out of critical targets, examples being: PVC conduits, structural steel reinforcement, post tension cables, and other embedment 's.

B. Owner – Legal owner of the structure to be scanned.

C. Contracting agency – The contractor hired directly or indirectly by the owner who is sub-letting the scanning requirements to a scanning contractor.

D. Scanning contractor – The contractor hired to perform the scanning operation.

E. Embedments / Targets – Objects within the area to be scanned that could be damaged during a coring or cutting operation within that area. Example of embedments are reinforcing rod, cable and utilities such as electrical power and communication lines.

F. Ground Penetrating Radar (GPR) – A geophysical method that uses pulses of electromagnetic wave energy to image the subsurface. Ground penetrating radar transmits energy in the microwave band of the of the electromagnetic spectrum

G. Frequency – The frequency describes the number of waveforms transmitted from a GPR antenna per second. Frequency is measured in cycles per second, or Hertz (Hz).

H. Suspended Concrete Slab – Suspended slabs are above-ground slabs which are not directly in contact with the earth. They are commonly used to create floors for the upper stories of buildings.

I. Concrete Slab on Grade – A concrete slab is placed (placed) directly on the grade (ground) with that is to serve as the foundation for the structure is formed from a mold set into the ground. The concrete is then placed into the mold, leaving no space between the ground and the structure.

J. Structural metal decking – Metal decking, pan decking or form decking can be any floor or roof deck product used as a concrete form. It typically is connected to a structural metal frame through welding or metal fasteners. Steel reinforcement will be installed on the decking surface to accommodate concrete specifications.

K. Line Scan – Collection of one straight line of GPR data resulting in the display of a cross-sectional depth representation of the RADAR signal moving through the material scanned.

L. Electromagnetic locator (EM) – Also known as a pipe and cable locator, is used for tracing utility lines, metallic pipes and clearing excavation and drilling locations. These utility locators consist of two main parts, a transmitter and a receiver.

1.03 SIM PREREQUISITE QUALIFICATIONS

A. Scanning contractor shall submit certification of experienced-based training that meets or exceeds the guidelines detailed in ASNT document 'Recommended Practice SNT-TC-1A, *Personnel Qualification and Certification in Nondestructive Testing Level I* '. The ASNT document recommends 8 hours as a minimum for training and a minimum of 60 hours practicing GPR in order to be a certified NDT Level I in Ground Penetrating Radar.

B. Scanning contractor shall utilize detailed methods, Subsurface Investigation Methodology, SIM requirement for competent field personnel:

a. Field mentoring, 4 weeks of application training from mentor.
b. 80 hours of classroom curriculum, GPR theory, test slab training, SIM investigative method training.
c. Post classroom training mentoring, 4-week practical application of testing equipment and investigative methods.
A. Field technicians shall maintain minimum OSHA 10 safety training certificate.
B. Scan contractor insurance requirements, commercial liability insurance $1,000,000 limit with $5,000,000 umbrella (includes auto and worker comp), professional liability $2,000,000 limit.
C. GPR equipment provided by scanning contractor:
d. Ground penetrating radar system, to include:
e. Radar Data Acquisition System/Controller with integrated display.
f. Applicable RADAR antennas, utility and concrete. Concrete antennas shall be capable of cross-polarizing for embedded PVC conduit investigation.
g. Miscellaneous hardware, cables, hand cart, marking tape, and power supply.
h. Electromagnetic Locating Equipment, "Pipe Locator":
A. Capable of receiving electromagnetic and communication line frequencies passively or induced from potentially imbedded power or communication lines.

PART 2 PRODUCTS – NOT USED
PART 3 EXECUTION

3.01 INVESTIGATION SCOPE

A. Scanning contractor will utilize available as-builts and prints/plans and previously detailed equipment to locate and mark out steel reinforcement, conduits, and other anomalies within slab.
B. This mark out may include depth estimates of targets.
C. If the scan area includes a slab on grade and the post scan work requires trenching, a lower frequency antenna may be used to locate targets in the backfill material under the slab.
D. Review of equipment capabilities and potential job-site performance impedances.

3.02 SIM PRE-SCAN INVESTIGATION

A. SIM Pre-investigation Steps:
a. Job Hazard Analysis, form review, or equal site safety review documentation. Review and sign site safety plan if applicable.
b. Site walk and project scope meeting, review scan locations. Note: look for visible clues such as electrical rooms, PT grout pockets, visible conduits, etc.
c. Site contact interview, slab construction, thickness, age, anticipated critical targets.
d. Request to view the slab underneath if a suspended slab.
e. Determine whether GPR data samples be required for reporting.
f. Type of markings (permanent vs. temporary)
g. Client deliverable requirements, report format/documentation
h. Coordinate with General Contractor and Landlord on scheduling and layout of anticipated scanning locations prior to scanning.
i. Prior to scanning, ensure the General Contractor has marked the anticipated scanning locations such as floor drains, floor sinks, plumbing pipe stubs and utility locations on the concrete slabs and/or concrete ceiling structures.

3.03 SIM SCANNING PROCEDURES

A. Quality of scan data
a. It is recommended that the scanning contractor calibrate the GPR system to the concrete. This calibration may be estimated or a test performed to determine the correct dielectric of the concrete. This may be an automated function of the equipment.
b. Perform several line scans in the scan area to determine a rough understanding of how the structural reinforcement travels in the concrete and the potential for other targets.
c. Note the ability to see the bottom of the concrete slab. If it is not apparent, determine possible reasons for its not being seen.

3.04 Review the clarity of the scan data. Adjustments in gain and other settings may be necessary.SIM METHODS FOR COMPLETE INVESTIGATION

A. Follow and document the SIM methods applied. Confirm information slab specification as detailed by site contact or available prints.
a. Basic structure of slab reinforcement.
b. Thickness of slab.
c. Slab on grade.
d. Suspended slab construction.
B. Scan and mark targets in the scan area.
a. Collect line scan data perpendicular to steel reinforcement targets.
b. Mark out one target at a time in one direction at a time.
c. Mark a minimum of 3 points per item.
d. Draw all lines using a straight edge.
e. Draw each target 1" wide or greater depending on the type of target and the situation.
f. Use continuation arrows at the end of each line if the item continue beyond the scan area.
g. Check findings using angled scans with at least 2 scans at each 45-degree angle.
h. Check findings using cross polarized scans with at least 2 scans at each 90- degree angle.
i. Check accuracy of all markings by inserting a reference dash at the center of each marking while scanning forward.
j. Use electromagnetic receiver and transmitter to connect to exposed utilities if possible.
k. Perform a passive sweep of each area with electromagnetic receiver using both Power and Radio modes.
l. Mark the scan boundaries for each scan location.
m. Document findings with photos and additional reporting if required.
n. In report, indicate the location of each scanned image on the most recent floor plan drawing provided by the general Contractor
o. If Revit is used by the scanning contractor as an option to relay report information, contact Architect to see if this can be used for coordination purposes.

3.05 SIM POST INVESTIGATION HAND OFF

A. If possible, a recap and review of findings with site contact.
B. Explain scan findings, where did the technologies work well and where results were inconclusive due to interference and or site conditions.
C. Explain markings and depth estimates.
D. Review original scope to confirm expectations were met/exceeded.

END OF SECTION

SECTION 01 4524
TESTING & INSPECTIONS SERVICES – XRAY SCANNING OF CONCRETE
PART 1 GENERAL

1.01 **CODES, STANDARDS, CERTIFICATIONS**

A. American Society for Nondestructive Testing, (ASNT).
B. Occupational Safety and Health Administration Safety and Health Standards Digest Construction Industry (OSHA) - 3149/1996
C. Federal Communications Division, (FCC). The concrete scanning contractor shall adhere to all applicable safety guidelines in accordance with federal, state, and local ordinances.

1.02 **DEFINITIONS**

A. Landlord (LL): Legal owner of the building structure to be scanned.
B. General Contractor (GC): The contractor hired directly or indirectly by the owner who is sub-letting the scanning requirements to a scanning contractor.
C. Owner: Tenant that is moving into the tenant space.
D. Scanning contractor (SC): The contractor hired to perform the scanning operation.
E. Embedments / Targets: Objects within the area to be scanned that could be damaged during a coring or cutting operation within that area. Example of embedments are reinforcing rod, cable and utilities such as electrical power and communication lines.

PART 2 PRODUCTS – NOT USED
PART 3 EXECUTION

1.01 COORDINATION PHASE

A. Scanning Contractor (SC) to coordinate with the General Contractor (GC) and Landlord (LL) on the following:
B. Scheduling
C. Required access to space(s) above and below the suspended slab, access to parking garage, basement, other tenant spaces, corridors if applicable
D. Safety measures:
E. As-Built drawings: GC and LL to provide to SC
F. New Tenant plans: GC and LL to provide most updated plans to SC
G. Site walk and site investigation: SC, GC and LL to be present. Meeting notes to be recorded and sent to all parties and Architect.

1.02 SCANNING PHASE

A. Put in place the required safety precautions and procedures to protect everyone in close proximity prior to and during scanning.
B. Post signage in areas indicating scanning is in process
C. Scanning contractor to utilize available as-builts and prints/plans and previously detailed equipment to locate and mark out steel reinforcement, conduits, and other anomalies within slab.
D. SC to indicate the location of each scanned image on paper copy of the most recent floor plan drawing provided by the General Contractor.

1.03 POST-SCANNING PHASE

A. Distribute Report: Send copies to Architect, General Contractor and Landlord.
B. GC to schedule conference call for SC to report findings and go over report with Architect, GC and LL 's rep**.**

END OF SECTION

SECTION 01 4533
CODE-REQUIRED SPECIAL INSPECTIONS AND PROCEDURES

PART 1 GENERAL

1.01 ABBREVIATIONS AND ACRONYMS

A. AHJ: Authority having jurisdiction.

1.02 DEFINITIONS

A. Code or Building Code: ICC (IBC). International Building Code, Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements and specifically, Chapter 17 - Special Inspections and Tests.
B. Authority Having Jurisdiction (AHJ): Agency or individual officially empowered to enforce the building, fire and life safety code requirements of the permitting jurisdiction in which the Project is located.
C. Special Inspection:
1. Special inspections are inspections and testing of materials, installation, fabrication, erection or placement of components and connections mandated by the AHJ that also require special expertise to ensure compliance with the approved Contract Documents and the referenced standards.
2. Special inspections are separate from and independent of tests and inspections conducted by sweetgreen Construction Manager or General Contractor for the purposes of quality assurance and contract administration.

1.03 SUBMITTALS

A. Special Inspection Agency Qualifications: Prior to the start of work, the Special Inspection Agency is required to:
1. Submit agency name, address, and telephone number, names of full time specialist and responsible officer.
2. Submit certification that Special Inspection Agency is acceptable to AHJ.
B. Special Inspection Reports: After each special inspection, Special Inspector shall promptly submit three copies of report; to sweetgreen, Architect and one to the AHJ.

1.04 SPECIAL INSPECTION AGENCY

A. **sweetgreen will employ services of a Special Inspection Agency to perform inspections and associated testing and sampling in accordance with ASTM E329 and required by the building code.**
B. Employment of agency in no way relieves General Contractor of obligation to perform work in accordance with requirements of Contract Documents.

1.05 TESTING AND INSPECTION AGENCIES

A. sweetgreen Construction Manager may employ services of an independent testing agency to perform additional testing and sampling associated with special inspections but not required by the building code.
B. Employment of agency in no way relieves General Contractor of obligation to perform work in accordance with requirements of Contract Documents.

PART 2 PRODUCTS - NOT USED
PART 3 EXECUTION

3.01 SCHEDULE OF SPECIAL INSPECTIONS, GENERAL

A. Frequency of Special Inspections: Special Inspections are indicated as continuous or periodic.
1. Periodic Special Inspection: Special Inspection Agency shall be present in the area where work is being performed and observe the work part-time or intermittently (if required) and/or at the completion of the work.

3.02 SPECIAL INSPECTION AGENCY DUTIES AND RESPONSIBILITIES

A. Special Inspection Agency shall:
1. Provide qualified personnel at site. Cooperate with Architect and General Contractor in performance of services.
2. Perform specified sampling and testing of products in accordance with specified reference standards.
3. Ascertain compliance of materials and products with requirements of Contract Documents.
4. Promptly notify Architect and General Contractor of observed irregularities or non-compliance of work or products.
5. Perform additional tests and inspections required by Architect.
6. Submit reports of all tests or inspections specified.

END OF SECTION

SECTION 01 5000
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 TEMPORARY UTILITIES

A. General Contractor will provide the following:
1. Electrical power, consisting of connection to existing facilities.
2. Water supply, consisting of connection to existing facilities.
B. Provide and pay for all lighting and ventilation required for construction purposes.

1.02 TELECOMMUNICATIONS SERVICES

A. Provide, maintain, and pay for telecommunications services to field (office) at time of project mobilization.

1.03 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
B. Maintain daily in clean and sanitary condition.

1.04 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition. Verify the barrier design requirements with sweetgreen and the landlord.

1.05 FENCING

A. Construction: General Contractor's option.
B. Provide 6 foot high fence around construction site; equip with vehicular and pedestrian gates with locks where required and coordinated with Landlord and sweetgreen.

1.06 EXTERIOR ENCLOSURES

A. Provide temporary insulated weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

1.07 SECURITY

A. Provide security and facilities to protect Work, existing facilities, and sweetgreen Construction Manager's operations from unauthorized entry, vandalism, or theft.

1.08 VEHICULAR ACCESS AND PARKING

A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
B. Coordinate access and haul routes with governing authorities, landlord, and sweetgreen Construction Manager.
C. Provide and maintain access to fire hydrants, free of obstructions.

1.09 WASTE REMOVAL

A. See Section 01 7419 - Construction Waste Management and Disposal, for additional requirements.
B. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
C. Provide containers with lids. Remove trash from site periodically.

END OF SECTION

SECTION 01 6000
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents and/or sweetgreen.
B. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the sweetgreen Construction Manager, or otherwise indicated as to remain the property of the sweetgreen Construction Manager, become the property of the General Contractor; remove from site.

2.02 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by Contract Documents.

2.03 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

A. See Section 01 2500 - Substitution Procedures.

END OF SECTION

SECTION 01 7000
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
B. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
1. Structural integrity of any element of Project.
2. Integrity of weather exposed or moisture resistant element.
3. Efficiency, maintenance, or safety of any operational element.
C. Project Record Documents: Accurately record actual locations of capped and active utilities.

1.02 PROJECT CONDITIONS

A. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
B. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
C. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
D. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
E. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

PART 3 EXECUTION

3.01 LAYING OUT THE WORK

A. Verify locations of control points prior to starting work.
B. **Promptly notify Architect and sweetgreen of any discrepancies discovered on the drawing provided in the contract dcouments**
C. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means as required:

3.02 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.03 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.
B. Perform whatever cutting and patching is necessary to:
1. Complete the work.
2. Fit products together to integrate with other work.
3. Provide openings for penetration of mechanical, electrical, and other services.
4. Match work that has been cut to adjacent work.
5. Repair areas adjacent to cuts to required condition.
6. Repair new work damaged by subsequent work.
7. Remove and replace defective and non-complying work.
C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
D. Patching:
1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.

3.04 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

3.05 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.
B. Provide special protection where specified in individual specification sections.
C. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.06 FINAL CLEANING

A. Execute final cleaning prior to final project assessment.
B. Use cleaning materials that are nonhazardous.
C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces.
D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

3.07 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.
B. Notify Architect and sweetgreen when work is considered ready for Architect's Substantial Completion inspection.
C. Submit written certification containing General Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.
D. Notify sweetgreen when work is considered finally complete and ready for Architect's Substantial Completion final inspection.
E. Complete items of work determined by Architect and sweetgreen listed in executed Certificate of Substantial Completion.

END OF SECTION

SECTION 01-7100
CUTTING AND PATCHING PERFORMANCE REQUIREMENTS

PART 1 - GENERAL
1.01 CUTTING AND PATCHING
A. Employ skilled workmen to perform cutting and patching work. Proceed with cutting and patching at the earliest feasible time and complete Work without delay.
PART 2 - EXECUTION
2.01 CUTTING AND PATCHING CRITERIA
A. Cut the Work using methods that are least likely to damage Work to be retained or adjoining Work. Where feasible review proposed procedures with the original installer; comply with original installers recommendations.
B. In general where cutting is required use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut through concrete and masonry using a cutting machine such as a carborundum saw or core drill to insure a neat hole. Cut holes and slots neatly to size required with minimum disturbance of adjacent Work. Cut or drill from the exposed or finished side into concealed surfaces. Temporarily cover openings when not in use.
C. By-pass utility services such as pipe and conduit before cutting. Where such utility services are shown or required to be removed, relocated or abandoned. Cut-off conduit and pipe in walls or partitions to be removed. After by-pass and cutting, cap valve or plug and seal tight remaining portion of pipe and conduit to prevent entrance of moisture or other foreign matter.
D. Patching: Patch with seams which are durable and as invisible as possible. Comply with specified tolerances for the Work.
E. Restore exposed finishes of patched areas and where necessary extend finish restoration into retained adjoining Work in a manner which will eliminate evidence of patching and refinishing.
F. When removing walls or partitions, extend one finished area into another finished area, patch and repair floor and wall surfaces in the new space to provide an even surface of uniform color and appearance if necessary to achieve uniform color and appearance, remove existing floor and wall coverings and replace with new materials.
G. Where patching occurs in a smooth painted surface, extend final paint coat over entire unbroken surface containing patch, after patched area has received prime and base coat.
H. Thoroughly clean areas and spaces where Work is performed or used as access to Work. Remove completely paint, mortar, oils, putty, and items of similar nature. Thoroughly clean piping, conduit and similar features before paint or other finish is applied. Restore damaged pipe covering to its original condition.

END OF SECTION

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sg
sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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07/25/2025

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SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
0	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

SPECIFICATIONS

A-701

SECTION 01 7419
CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
PART 1 GENERAL
1.01 WASTE MANAGEMENT REQUIREMENTS
A. sweetgreen Construction Manager requires that this project generate the least amount of trash and waste possible.
B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.
PART 3 EXECUTION
2.01 WASTE MANAGEMENT PLAN IMPLEMENTATION
A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.
B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor and sweetgreen Construction Manager.
C. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
D. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.
E. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.
F. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.
G. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.
END OF SECTION

SECTION 01 7800
CLOSEOUT SUBMITTALS
PART 1 GENERAL
1.01 SUBMITTALS
A. Project Record Documents: **Submit documents to sweetgreen with claim for final Application for Payment .**
B. Operation and Maintenance Data:
C. Warranties and Bonds:
1. For equipment or component parts of equipment put into service during construction with sweetgreen Construction Manager's permission, submit documents within 10 days after acceptance.
PART 3 EXECUTION
2.01 PROJECT RECORD DOCUMENTS
A. Maintain on site one set of the following record documents; record actual revisions to the Work:
1. Permit Drawings.
2. Utility plan that shows the location of the meters for gas, water, and electricity. In addition, the plan to include location of the main disconnect for each.
3. Addenda.
4. Change Orders and other modifications to the Contract.
5. Reviewed shop drawings, product data, and samples.
6. Manufacturer's instruction for assembly, installation, and adjusting.
7. List of all subcontractors and suppliers with contact name, address, and phone number(s).
2.02 OPERATION AND MAINTENANCE DATA
A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
2.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES
A. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.
2.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS
A. For Each Item of Equipment and Each System:
1. Description of unit or system, and component parts.
B. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.
C. Training: General Contractor to conduct a session with sweetgreen management on the operation of the equipment including HVAC equipment, water heaters, plumbing fixtures, etc. In addition point out to the management where shut-offs for water, gas, and electricity.
D. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
2.05 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS
A. Assemble operation and maintenance data into durable manuals for sweetgreen Construction Manager's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.
B. Where systems involve more than one specification section, provide separate tabbed divider for each system.
C. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.
D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
2.06 WARRANTIES AND BONDS
A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with sweetgreen Construction Manager's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.
END OF SECTION

SECTION 01 9113
GENERAL COMMISSIONING REQUIREMENTS
PART 1 GENERAL
1.01 SUMMARY
A. Commissioning is intended to achieve the following specific objectives; this section specifies the General Contractor's responsibilities for commissioning:
1. Verify that the work is installed in accordance with Contract Documents and the manufacturer 's recommendations and instructions, and that it receives adequate operational checkout prior to startup: Startup reports and Prefunctional Checklists executed by General Contractor are utilized to achieve this.
2. Verify and document that functional performance is in accordance with Contract Documents: Functional Tests executed by General Contractor and witnessed by the Commissioning Authority are utilized to achieve this.
3. Verify that operation and maintenance manuals submitted to sweetgreen Construction Manager are complete: Detailed operation and maintenance (O&M) data submittals by General Contractor are utilized to achieve this.
4. Verify that the sweetgreen Construction Manager's operating personnel are adequately trained: Formal training conducted by General Contractor is utilized to achieve this.
B. Commissioning, including Functional Tests, O&M documentation review, and training, is to occur after startup and initial checkout and be completed before Substantial Completion.
C. The Commissioning Authority directs and coordinates all commissioning activities; this section describes some but not all of the Commissioning Authority's responsibilities.
D. The Commissioning Authority is employed by sweetgreen Construction Manager.
1.02 SCOPE OF COMMISSIONING
A. Fire Protection Systems.
B. Plumbing Systems:
1. Water heaters.
2. Booster pumps.
C. HVAC System, including:
1. Major and minor equipment items.
2. Control system.
D. Special Ventilation:
1. Fume hoods.
E. Electrical Systems:
1. Lighting controls other than manual switches.
F. Electronic Safety and Security:
1. Security system.
2. Fire and smoke alarms.
G. Other equipment and systems explicitly identified elsewhere in Contract Documents as requiring commissioning.
1.03 SUBMITTALS
A. Product Data: If submittals to Architect do not include the following, submit copies as soon as possible:
B. Manufacturers' Instructions: Submit copies of all manufacturer-provided instructions that are shipped with the equipment as soon as the equipment is delivered.
C. Startup Plans and Reports.
D. Completed Prefunctional Checklists.
PART 2 PRODUCTS
2.01 TEST EQUIPMENT
A. Provide all standard testing equipment required to perform startup and initial checkout and required Functional Testing; unless otherwise noted such testing equipment will NOT become the property of sweetgreen Construction Manager.
B. Calibration Tolerances: Provide testing equipment of sufficient quality and accuracy to test and/or measure system performance with the tolerances specified. If not otherwise noted, the following minimum requirements apply:
1. Temperature Sensors and Digital Thermometers: Certified calibration within past year to accuracy of 0.5 degree F and resolution of plus/minus 0.1 degree F.
2. Pressure Sensors: Accuracy of plus/minus 2.0 percent of the value range being measured (not full range of meter), calibrated within the last year.
3. Calibration: According to the manufacturer's recommended intervals and when dropped or damaged; affix calibration tags or keep certificates readily available for inspection.
C. Equipment-Specific Tools: Where special testing equipment, tools and instruments are specific to a piece of equipment, are only available from the vendor, and are required in order to accomplish startup or Functional Testing, provide such equipment, tools, and instruments as part of the work at no extra cost to sweetgreen Construction Manager; such equipment, tools, and instruments are to become the property of sweetgreen Construction Manager.
D. Dataloggers: Independent equipment and software for monitoring flows, currents, status, pressures, etc. of equipment.
1. Dataloggers required to for Functional Tests will be provided by the Commissioning Authority and will not become the property of sweetgreen Construction Manager.
PART 3 EXECUTION
3.01 STARTUP PLANS AND REPORTS
A. Startup Plans: For each item of equipment and system for which the manufacturer provides a startup plan, submit the plan not less than 8 weeks prior to startup.
B. Startup Reports: For each item of equipment and system for which the manufacturer provides a startup checklist (or startup plan or field checkout sheet), document compliance by submitting the completed startup checklist prior to startup, signed and dated by responsible entity.
3.02 FUNCTIONAL TESTS
A. A Functional Test is required for each item of equipment, system, or other assembly specified to be commissioned, unless sampling of multiple identical or near-identical units is allowed by the final test procedures.
B. General Contractor is responsible for execution of required Functional Tests, after completion of Prefunctional Checklist and before closeout.
C. Commissioning Authority is responsible for witnessing and reporting results of Functional Tests, including preparation and completion of forms for that purpose.
D. General Contractor is responsible for correction of deficiencies and re-testing at no extra cost to sweetgreen Construction Manager; if a deficiency is not corrected and re-tested immediately, the Commissioning Authority will document the deficiency and the General Contractor's stated intentions regarding correction.
E. Functional Test Procedures:
1. Some test procedures are included in Contract Documents; where Functional Test procedures are not included in Contract Documents, test procedures will be determined by the Commissioning Authority with input by and coordination with General Contractor.
F. Deferred Functional Tests: Some tests may need to be performed later, after substantial completion, due to partial occupancy, equipment, seasonal requirements, design or other site conditions; performance of these tests remains the General Contractor's responsibility regardless of timing.
3.03 SENSOR AND ACTUATOR CALIBRATION
A. Calibrate all field-installed temperature, relative humidity, carbon monoxide, carbon dioxide, and pressure sensors and gauges, and all actuators (dampers and valves) on this piece of equipment shall be calibrated. Sensors installed in the unit at the factory with calibration certification provided need not be field calibrated.
3.04 TEST PROCEDURES - GENERAL
A. Provide skilled technicians to execute starting of equipment and to execute the Functional Tests. Ensure that they are available and present during the agreed upon schedules and for sufficient duration to complete the necessary tests, adjustments and problem-solving.
B. Provide all necessary materials and system modifications required to produce the flows, pressures, temperatures, and conditions necessary to execute the test according to the specified conditions. At completion of the test, return all affected equipment and systems to their pre-test condition.
C. Manual Testing: Use hand-held instruments, immediate control system readouts, or direct observation to verify performance (contrasted to analyzing monitored data taken over time to make the "observation").
D. Simulating Conditions: Artificially create the necessary condition for the purpose of testing the response of a system; for example apply hot air to a space sensor using a hair dryer to see the response in a VAV box.
E. Simulating Signals: Disconnect the sensor and use a signal generator to send an amperage, resistance or pressure to the transducer and control system to simulate the sensor value.
F. Over-Writing Values: Change the sensor value known to the control system in the control system to see the response of the system; for example, change the outside air temperature value from 50 degrees F to 75 degrees F to verify economizer operation.
G. Indirect Indicators: Remote indicators of a response or condition, such as a reading from a control system screen reporting a damper to be 100 percent closed, are considered indirect indicators.
H. Monitoring: Record parameters (flow, current, status, pressure, etc.) of equipment operation using dataloggers or the trending capabilities of the relevant control systems; where monitoring of specific points is called for in Functional Test Procedures:
1. All points that are monitored by the relevant control system shall be trended by General Contractor; at the Commissioning Authority 's request, General Contractor shall trend up to 20 percent more points than specified at no extra charge.
2. Other points will be monitored by the Commissioning Authority using dataloggers.
3.05 OPERATION AND MAINTENANCE MANUALS
A. Add design intent documentation furnished by Architect to manuals prior to submission to sweetgreen Construction Manager.
B. Submit manuals related to items that were commissioned to Commissioning Authority for review; make changes recommended by Commissioning Authority.
END OF SECTION

SECTION 02 4100
DEMOLITION
PART 1 GENERAL
1.01 SUBMITTALS
A. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.
PART 1 EXECUTION
2.01 GENERAL PROCEDURES AND PROJECT CONDITIONS
A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
1. Obtain required permits.
2. Comply with applicable requirements of NFPA 241.
3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
4. Provide, erect, and maintain temporary barriers and security devices.
B. Do not begin removal until built elements to be salvaged or relocated have been removed.
C. Minimize production of dust due to demolition operations.
D. If hazardous materials are discovered during removal operations, stop work and notify Architect and sweetgreen Construction Manager; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.
2.02 EXISTING UTILITIES
A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
B. Protect existing utilities to remain from damage.
2.03 SELECTIVE DEMOLITION FOR ALTERATIONS
A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only. Coordinate actual location(s) with drawings and Architect.
B. Remove existing work as indicated and as required to accomplish new work.
C. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove existing systems and equipment as indicated and per Tenant Criteria as provided by the Landlord.
D. Protect existing work to remain.
2.04 DEBRIS AND WASTE REMOVAL
A. Remove debris, junk, and trash from site.
END OF SECTION

SECTION 03 3000
CAST-IN-PLACE CONCRETE
PART 1 GENERAL
1.01 SUBMITTALS
A. Test Reports: Submit report for each test or series of tests specified.
1.02 QUALITY ASSURANCE
A. Perform work of this section in accordance with ACI 301R and ACI 308.1.
B. Follow recommendations of ACI 305R when concreting during hot weather
C. Follow recommendations of ACI 306R when concreting during cold weather
1.03 WARRANTY
A. Slabs with Moisture Vapor Reducing Admixture (MVRA): Provide warranty to cover cost of flooring failures due to moisture migration from slabs for ten years.
B. Termite-Resistant Vapor Barrier Sheet: Provide five year manufacturer's limited warranty.
PART 2 PRODUCTS
2.01 FORMWORK
A. Form design and Construction: Comply with guidelines of ACI 347 to provide formwork that will produce concrete complying with tolerances of ACI 117.
B. Form Materials: General Contractor's choice of standard products with sufficient strength to withstand hydrostatic head without distortion in excess of permitted tolerances.
1. Form Facing for Exposed Finish Concrete: Steel.
2. Form Coating: Release agent that will not adversely affect concrete or interfere with application of coatings.
2.02 REINFORCEMENT
A. Reinforcing Steel: ASTM A615/A615M, Grade 60 - 60,000 psi.
1. Type: Deformed billet-steel bars.
2. Finish: Epoxy coated in accordance with ASTM A775/A775M, unless otherwise indicated.
B. Steel Welded Wire Reinforcement (WWR): Galvanized, plain type, ASTM A1064/A1064M.
1. WWR Style: As indicated on drawings.
a. Form: Flat Sheets .
b. WWR Style: As indicated on drawings.
C. Reinforcement Accessories:
1. Tie Wire: Annealed, minimum 16 gauge, 0.0508 inch.
2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.
2.03 CONCRETE MATERIALS
A. Cement: ASTM C150, Type III - High Early Strength Portland type.
B. Fine and Coarse Aggregates: ASTM C 33.
C. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete.
2.04 ADMIXTURES
A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
B. Air Entrainment Admixture: ASTM C260/C260M.
2.05 ACCESSORY MATERIALS
A. Underslab Vapor Retarder: Multi-layer, fabric-, cord-, grid-, or aluminum-reinforced polyethylene or equivalent, complying with ASTM E1745, Class A; stated by manufacturer as suitable for installation in contact with soil or granular fill under concrete slabs. The use of single ply polyethylene is prohibited.
1. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, prefabricated boots, etc., for sealing seams and penetrations in vapor retarder.
B. Non-Shrink Cementitious Grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
2.06 BONDING AND JOINTING PRODUCTS
A. Latex Bonding Agent: Non-redispersable acrylic latex, complying with ASTM C1059/C1059M, Type II.
2.07 CURING MATERIALS
A. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound; complying with ASTM C309.
2.08 CONCRETE MIX DESIGN
A. Normal Weight Concrete:
1. Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: 4,000 pounds per square inch.
2. Water-Cement Ratio: Maximum 40 percent by weight
3. Total Air Content: 4 percent, determined in accordance with ASTM C173/C173M .
4. Maximum Slump: 4 inches
5. Maximum Aggregate Size: 5/8 inch. Provider to use an aggregate that has a mix of black, white, and gray aggregate. Provide sample for "salt and pepper" appearance.
PART 3 EXECUTION
3.01 PREPARATION
A. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning with steel brush and applying bonding agent in accordance with manufacturer's instructions.
3.02 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS
A. Fabricate and handle epoxy-coated reinforcing in accordance with ASTM D3963/D3963M.
B. Comply with requirements of ACI 301 . Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.
C. Install welded wire reinforcement in maximum possible lengths, and offset end laps in both directions. Splice laps with tie wire.
3.03 PLACING CONCRETE
A. Place concrete for floor slabs in accordance with ACI 302.1 R.
B. Finish Floors level and flat, unless otherwise indicated. within the tolerances specified below.
3.04 FLOOR FLATNESS AND LEVELNESS TOLERANCES
A. Maximum Variation of Surface Flatness:
1. **Exposed Concrete Floors: 1/8 inch in 10 ft** .
B. Correct the slab surface if tolerances are less than specified.
C. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified.
D. Correct the slab surface if tolerances are less than specified.
3.05 CONCRETE FINISHING
A. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows:
1. Decorative Exposed Surfaces; "Steel Trowel" as described in ACI302.1R; use steel-reinforced plastic trowel blades instead of steel blades to avoid black-burnish marks; decorative exposed surfaces include surfaces to be polished and all other slab surfaces.
a. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI 302.1R; thin floor coverings include carpeting, resilient flooring, seamless flooring, resinous matrix terrazzo, thin set quarry tile, and thin set ceramic tile.
b. Decorative Exposed Surfaces: Trowel as described in ACI 302.1R; take measures necessary to avoid black-burnish marks; decorative exposed surfaces include surfaces to be stained or dyed, pigmented concrete, surfaces to receive liquid hardeners, surfaces to receive dry-shake hardeners, surfaces to be polished, and all other exposed slab surfaces.
3.06 CURING AND PROTECTION
A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
END OF SECTION

Section 03 3543
POLISHED CONCRETE FINISHING

PART 1 – GENERAL
1.1 SUMMARY
A. Section includes: This section specifies polished concrete
B. Related Sections:
1. Section 07-9200 "Joint Sealants" for sealants in concrete floor surfaces
1.2 REFERENCES
A. American Concrete Institute (ACI)
1. ACI 302.1R – Guide for Concrete Floor and Slab Construction
2. ACI 308.1 – Specification for Curing Concrete
B. ASTM International
1. ASTM C309 – Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete
2. ASTM C171 – Standard Specification for Sheet Materials for Curing Concrete
3. ASTM C779 – Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces
4. ASTM C805 – Standard Test Method for Rebound Number of Hardened Concrete
5. ASTM E 1155 – Standard Test Method for Determining Floor Flatness and Levelness Using the F number system
6. Constructions (RILEM) RILEM Test Method 11.4 Standard Measurement of Reduction of Moisture Penetration through Horizontal Concrete Surfaces
1.3 PERFORMANCE REQUIREMENTS
A. Performance Requirements: Provide polished flooring that has been selected, manufactured and installed to achieve the following
1 . Abrasion Resistance: ASTM C779, Up to 400% increase in abrasion resistance
2. Waterproof Properties: RILEM Test Method 11.4, 70% or greater reduction in absorption
3. Impact Strength: ASTM C805, Up to 21% increased impact strength
4. Must meet or exceed ADA/OSHA suggested 0.5 standard value for the Static Co-efficient of Friction
B. Design Requirements
1. Hardened Concrete Properties
a. Minimum Concrete Compressive Strength: 4000 psi
b. Normal Weight Concrete, No light weight aggregates
c. Non-air entrained concrete
d. Fly ash discouraged, if required, no more than 20%
2. Placement Properties for New Concrete
a. Natural concrete slump of 4 1/2 inches – 5 inches, Admixtures may be used
b. Flatness Requirements
1. Overall FF 50
2. Local FL 35
3. General Contractor to provide testing service to obtain floor flatness measurements
3. Hard-Steel Troweled (3 passes) Concrete
a. No burn marks. Finish to ACI 302.1R, Class 5 floor
1.4 PRE POLISH/INSTALLATION MEETINGS
A. Pre installation Conference: Conduct conference at project site as directed by SSI
1.5 ACTION SUBMITTALS
A. Product Data: For each type of product indicated
B. LEED Submittals
1. Product Data for Credit IEQ 4.2; For liquid applied flooring components, documentation including printed statement of VOC content by third party testing agency
1.6. INFORMATIONAL SUBMITTALS
A. Test Reports: Certified test reports, from an Independent Testing Laboratory, showing compliance with specified performance criteria and physical properties as cited in "Performance Requirements"
B. Certificates:
1. Product and installer certificates signed by the manufacturer certifying materials meet specified performance characteristics and criteria and physical requirements
2. Current installation contractor's certificate signed by manufacturer declaring contractor as a certified installer of polishing system, prior to bidding of project.
1.7 CLOSEOUT SUBMITTALS:
A. Warranty: Submit warranty documents specified
B. Maintenance Data: For polished concrete finishing to include in maintenance manuals. Also include the following
1. Manufacturer's instructions on maintenance renewal of applied treatments
2. Protocols and product specifications for joint filling, crack repair and/or surface repair.
1.8 QUALITY ASSURANCE
A. Manufacturers Qualifications:
1. Manufacturer has a minimum of five (5) years experience in manufacturing components similar to or exceeding requirements of project.
2. Manufacturer must be able to provide technically trained field representative during construction and approving application method
B. Installer Qualifications
1. Installer experienced in performing work of this section who has specialized in installation work similar to that required for this project
2. Installer trained and having current certification for RetroPlate Concrete Polishing System. For approved contractors contact Curecrete Distribution – RetroPlate System: Scott Maxfield, P O Box 80533, Provo, UT 84605, Telephone: (800)998-5664, Scott.Maxfield@curecrete.com
C. Sequence With Other Work:
1. Comply with Manufacturer's written recommendations for sequencing construction operations
1.9 DELIVERY, STORAGE & HANDLING
A. Ordering:
1. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays
B. Delivery:
Delivery: Deliver materials in manufacturer's original packaging with identification labels and seals intact
C. Storage and Protection:
1. Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer
2. Protect Concrete Slab
1. Protect from petroleum stains during construction
2. Diaper all hydraulic lifts and power equipment
3. Restrict vehicular parking, drop cloths will be placed under vehicles parked on slab
4. No pipe cutting machinery will be used on interior floor slab
5. Steel will not be placed on interior floor slab to avoid rust staining
6. No acids or acidic detergents will come into contact with slab
7. Floor shall be covered with visqueen or other protective product prior to any work overhead
1.10 PROJECT CONDITIONS / ENVIORNMENT
A. Environmental limitations: Do not install work until ambient temperature and humidity conditions are maintained at levels indicated in reference standards
B. The Polishing contractor will be provided complete access to 30% of the entire area to be polished for three (3) consecutive days, 24-hour availability, without any other trades working in this area. It should be free of any stored or installed products or fixtures. The entire polished area shall be divided at the mid-point, in either direction, to provide two contiguous rectangular work areas. This will continue in 30% increments until the floor is complete.
C. General Contractor is responsible for an onsite water source.
D. General Contractor is responsible for providing a lighting level of minimum 30 foot-candles at 8 feet above the floor surface over each 20-foot square area of floor being finished.
E. All necessary electrical supply to be provided by the General Contractor within 100 feet of the work area for all polishing equipment, including three-phase 480-volt service as needed. Electrical supplied by generator may be necessary.
F. General Contractor will supply one (1) twenty (20) yard open head dumpsters. (Slurry remediation)
G. The use of any marking chalk, other than white, is strictly prohibited
H. Applicator's need access to docks to unload equipment
1.11 PREPOLISH MEETING
A meeting with General Contractor, RetroPlate Management Service Representative, and Applicator will be held 7-10 day before polishing is set to begin to review the condition of the floor, assess construction joint depth, review FF/FL reports, location of dumpsters/slurry remediation, create/ review phase plan for polish scope of work (break down of how the floor will progress). Confirm schedule
1.12 TURN OVER
A. General Contractor will be responsible for pre-polish patching and repairs to match surrounding concrete color (Anchor bolt, and nail holes due to tilt-up Construction, damage from other trades).
B. General Contractor will be responsible for the cost of materials and labor for all miss-cut saw joints.
C. Curing compound that has been over applied requiring additional grinding passes to remove will be charged directly to the General Contractor
D. General Contractor is responsible for removing and mitigating any moisture from roof leaks, paint spills, paint overspray, acid spills or any other damage from other subcontractors to the floor. The floor shall be cleaned of any debris, machinery dry fall or paint, broom swept and scrubbed via a cleaning machine before the polishing contractor arrives to the site. Pictures of the condition of floor shall be taken for documentation and loaded into Floor and Decor's project management software on the date of arrival by the polishing contractor. If upon arrival, the floor is dirty or equipment and materials are positioned as to limit the progress of the polishing contractor causing delays in progress, the General Contractor and Floor and Décor Project Manager will be notified via email. If materials are not removed within 2 hours, a "delay of progress" fee of $1,000.00 per incident will be assessed.
1.13 WARRANTY
A. Project Warranty: Refer to Contract Conditions for project warranty provisions.
B. Manufacturer's Warranty: Submit for owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to and does not limit, other rights Owner may have under Contract Documents
PART 2 – Products
2.1 PRODUCTS, GENERAL
A. Ensure concrete finishing components and materials are from single source, from single manufacturer
2.2 CURING OPTIONS
a. Curing Agent
1. E-Cure; SpecChem
2. Med-Cure; WR Meadows
3. Ashford Formula; Curecrete Distribution
b. Moisture Retaining Cure Cover (required for Florida and Wyoming)
1. UltraCure; Sika Corporation
2. ReliableCure SOG; Reliable Concrete Accessories
3. Substitutions: Not Permitted
c. Tilt-up Cure & Bond Breaker (tilt-wall construction only)
1. Water based concrete cure and bond breaker material as specified in Section 04 47 00 Tilt-UP Concrete Construction, and compliant with ASTM C 309.
d. Moisture-Retaining Sheet: ASTM C171 (concrete to receive coatings or floor coverings only)
1. Polyethylene film, clear or opaque, minimum nominal thickness of 0.0040 in.
2.2 POLISHED CONCRETE FINISHING PRODUCTS
A. Basis of Design Product: Curecrete Distribution, RetroPlate Systems
B. Contact: Scott Maxfield, P O Box 80533, Provo, UT 84605, Telephone: (800)998-5664, Scott.Maxfield@curecrete.com
C. Proprietary Products/Systems:
1. Hardener, Sealer, Densifier: RetroPlate 99 – penetrating, water based, odorless liquid, VOC compliant, environmentally safe chemical, will leave no film on surface
2. Concrete Clarity Enhancer: KickStart – Accelerated, enhanced clarity in fewer grinding/polishing steps
3. Joint Filler: CretеFill 85 Moisture Insensitive, Semi-rigid, 2 component, self-leveling, 100%solids, rapid curing, polyurea control joint and crack filler. Depending on project needs
4. Spall Repair: CretеFill Spall Repair, Rapid setting, high strength hybrid urethane repair material.
5. Cleaning Solution: CreteClean Plus
6. Stain Protector: RetroGuard
D. No Substitutions Allowed
PART 3 – Execution
3.1 MANUFACTURERS INSTRUCTIONS
A. Compliance: Comply with manufacturer's written data, including product technical bulletins, product catalog installation instructions, product carton installations and Advanced Floor products Spec-Data sheets.
3.2 EXAMINATION
A. Site Verification of Conditions
1. Verify that concrete substrate conditions, which have been previously installed under other sections or contracts, are acceptable for product installation in accordance with manufacturer's instructions prior to installation of finishing materials
2. Notify the Architect and CM immediately if the existing concrete slab consists of a topping slab on top of the concrete slab. If unsure, confirm with a coring test. Coring test may also determine if the type of topping slab is either bonded or non-bonded.
a. Bonded
b. Non-Bonded:
1. Verify concrete is cured to 28 days or 3700 psi strength
3.3 PREPARATION
A. Ensure surfaces are clean and free of dirt and other foreign matter harmful to performance of Concrete finishing materials
B. Examine surface to determine soundness of concrete for polishing
3.4 INSTALLATION
A. Floor Surface Polishing and Treatment
1. Provide polished concrete floor treatment in entirety of slab indicated by drawings. Provide Consistent finish in all contiguous areas
1. Apply floor finish prior to installation of fixtures and accessories
2. Diamond polish concrete floor surfaces with proper grinding equipment, recommended by Polishing system representative
a. Comply with manufacturer's recommended polishing grits for each sequence to achieve desired finish level. Level of shine shall match that of approved mock-up.
b. Expose aggregate in concrete surface only as determined by approved mock-up
c. All concrete surfaces shall be as uniform in appearance as possible
4. Apply RetroPlate 99, Hardener, Densifier as follows;
a. Apply RetroPlate 99 at 200 sq. ft. per gallon, according to manufacturer´s directions, with a one (1) hour dwell time.
1. Remove defects and re-polish defective areas
2. Finish edges of floor finish adjoining other materials in a clean and sharp manner
3. Floor should read a DOI reading of 40-69
3.6 FINAL CLEANING
A. Mechanically scrub treated floors as needed or every two (2) to three (3) days with soft to medium pads using approved cleaning solution (Crete Clean Plus)
B. Upon completion, general contractor must remove surplus and excess materials, rubbish, tools and equipment
3.7 PROTECTION
A. Protect installed product (Polished floors) from damage during construction
End of Section

SECTION 04 2000
UNIT MASONRY
PART 1 GENERAL
1.01 QUALITY ASSURANCE
A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.
PART 2 PRODUCTS
2.01 CONCRETE MASONRY UNITS
A. Concrete Block: Comply with referenced standards and as follows:
1. Size: Standard units with nominal face dimensions of 16 by 8 inches and nominal depth of 8 inches.
2. Special Shapes: Provide non-standard blocks configured for corners, lintels, headers, and other detailed conditions.
a. Provide bullnose units for outside corners.
3. Load-Bearing Units: ASTM C90, normal weight.
a. Both hollow and solid block, as indicated.
b. Exposed Faces: Manufacturer's standard color and texture where indicated.
2.02 BRICK UNITS
A. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
1. Nominal size: As indicated on drawings.
2.03 CLAY BLOCK UNITS
A. Non-Structural Clay Non-Load-Bearing Block (Terracotta "Breeze Block"):
1. Nominal size: As indicated on drawings.
2.04 MORTAR MATERIALS
A. Packaged Dry Material for Mortar for Unit Masonry: Premixed masonry cement and mason's sand; complying with ASTM C1714/C1714M and capable of producing mortar of the specified strength in accordance with ASTM C270 with the addition of water only.
1. Type: Type N.
2. Color: Standard gray or as noted on drawings.
2.05 REINFORCEMENT AND ANCHORAGE
A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi), deformed billet bars; galvanized.
B. Single Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss or ladder.
2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
3. Size: 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not less than 5/8 inch of mortar coverage on each exposure.
C. Multiple Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss.
2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
3. Size: 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not less than 5/8 inch of mortar coverage on each exposure.
D. Strap Anchors: Bent steel shapes, 1-1/2 inch width, 0.105 inch thick, 24 inch length, with 1-1/2 inch long, 90 degree bend at each end to form a U or Z shape or with cross pins, hot dip galvanized to ASTM A153/A153M Class B.
2.06 FLASHINGS
A. Metal Flashing Materials:
1. Stainless Steel Flashing: ASTM A666, Type 304, soft temper; 26 gauge, 0.0187 inch thick; finish 2B to 2D.
B. Membrane Asphaltic Flashing Materials:
1. Rubberized Asphalt Flashing: Self-adhering polymer modified asphalt sheet; 40 mils (0.040 inch) minimum total thickness; 8 mil cross-laminated polyethylene bonded to adhesive rubberized asphalt, with a removable release liner.
C. Flashing Sealant/Adhesives: Silicone, polyurethane, or silyl-terminated polyether/polyurethane or other type required or recommended by flashing manufacturer; type capable of adhering to type of flashing used.
2.07 ACCESSORIES
A. Preformed Control Joints: Neoprene material. Provide with corner and tee accessories, fused joints.
B. Joint Filler: Closed cell polyvinyl chloride; oversized 50 percent to joint width; self expanding; in maximum lengths available.
C. Building Paper: ASTM D226/D226M, Type I ("No.15") asphalt felt.
D. Weeps:
1. Type: Molded PVC grilles, insect resistant.
2.08 LINTELS
A. Prefabricated Steel Lintels:

sg
sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

THESE DRAWINGS & SPECIFICATIONS ARE CONFIDENTIAL AND SHALL REMAIN THE SOLE PROPERTY OF SWEETGREEN CORPORATION. THEY SHALL NOT BE REPRODUCED (IN WHOLE OR IN PART), SHARED WITH THIRD PARTIES OR USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF SWEETGREEN CORPORATION. THESE DRAWINGS & SPECIFICATIONS ARE INTENDED TO EXPRESS DESIGN INTENT FOR A PROTOTYPICAL SWEETGREEN STORE (WHICH IS SUBJECT TO CHANGE AT ANY TIME) AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. NEITHER PARTY SHALL HAVE ANY OBLIGATION NOR LIABILITY TO THE OTHER (EXCEPT AS STATED ABOVE) UNTIL A WRITTEN AGREEMENT IS FULLY EXECUTED.

ARCHITECT OF RECORD:
Bergmeyer

BOS	COL	LA
1	875 N High St.	360 E 2nd St.
51 Sleeper St.	Suite 300	Suite 300
6th Floor	Columbus, OH 43215	Los Angeles, CA 90012
Boston, MA 02210	380.900.8887	213.337.1090
617.542.1025		

STAMP:

07/25/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	MN/SL/SN
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

| REV. | DATE | DESC

SECTION 04 2000 CONTINUED

PART 3 EXECUTION

3.01 COLD AND HOT WEATHER REQUIREMENTS

A. Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.

3.02 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.
B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
C. Concrete Masonry Units:
1. Bond: Running or as noted on drawings.
2. Mortar Joints: Concave.
D. Brick Units:
1. Bond: Running.
2. Coursing: Three units and three mortar joints to equal 8 inches.
3. Mortar Joints: Concave.
E. Terracott Units:
1. Bond: Stacked.
2. Mortar Joints: Concave.

3.03 PLACING AND BONDING

A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
B. Lay hollow masonry units with face shell bedding on head and bed joints.

3.04 WEEPS/CAVITY VENTS

A. Install weeps in veneer and cavity walls at 32 inches on center horizontally on top of through-wall flashing above shelf angles and lintels and at bottom of walls.

3.05 CAVITY MORTAR CONTROL

A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.

3.06 REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, AND CAVITY WALL MASONRY

A. Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches on center.
B. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 36 inches horizontally and 24 inches vertically.
C. Embed ties and anchors in mortar joint and extend into masonry unit a minimum of 1-1/2 inches with at least 5/8 inch mortar cover to the outside face of the anchor.

3.07 MASONRY FLASHINGS

A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
B. Install flashing in accordance with manufacturer's instructions and BIA Technical Notes No. 7.
C. Extend metal flashings through exterior face of masonry and terminate in an angled drip with hemmed edge. Install joint sealer below drip edge to prevent moisture migration under flashing.

3.08 LINTELS

A. Install loose steel lintels over openings.
B. Install reinforced unit masonry lintels over openings where steel or precast concrete lintels are not scheduled.

3.09 GROUTED COMPONENTS

A. Place and consolidate grout fill without displacing reinforcing.
B. At bearing locations, fill masonry cores with grout for a minimum 12 inches either side of opening.

END OF SECTION

SECTION 05 4000
COLD-FORMED METAL FRAMING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on standard framing members; describe materials and finish, product criteria, limitations .

PART 2 PRODUCTS

2.01 FRAMING SYSTEM

A. Provide primary and secondary framing members, bridging, bracing, plates, gussets, clips, fittings, reinforcement, and fastenings as required to provide a complete framing system.

2.02 FRAMING MATERIALS

A. Studs and Track: ASTM C955; studs formed to channel, C- or Sigma-shaped with punched web; U-shaped track in matching nominal width and compatible height.
1. Gauge and Depth: As indicated on drawings.
2. Galvanized in accordance with ASTM A653/A653M, G90/Z275 coating.
B. Jamb Studs: Engineered, C-shaped with wide flanges, designed to replace conventional double-stud framing at openings.
C. Header: Engineered one-member or two-member assembly, with wide flanges, designed to replace conventional box or nested header framing at openings.
1. Jamb Mounting Clips: Manufacturer's standard.

2.03 FASTENERS

A. Self-Drilling, Self-Tapping Screws, Bolts, Nuts and Washers: Hot dip galvanized per ASTM A153/A153M.
B. Anchorage Devices: Powder actuated and Drilled expansion bolts.

2.04 WALL SHEATHING

A. Plywood; PS 1, Grade C-D, Exposure I.
B. Gypsum board; complying with requirements of ASTM C1396/C1396M for gypsum sheathing, V-shaped long edges, 5/8 inch thick, Type X - Fire Resistant

PART 3 EXECUTION

3.01 INSTALLATION OF STUDS

A. Install components in accordance with ASTM C1007 requirements and ASTM C1007 requirements.
B. Place studs at 16 inches on center; not more than 2 inches from abutting walls and at each side of openings. Connect studs to tracks using fastener method.

3.02 INSTALLATION OF WALL SHEATHING

A. Install wall sheathing with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using self-tapping screws.

END OF SECTION

SECTION 05 5000
METAL FABRICATIONS

PART 1 GENERAL

1.01 SUBMITTALS

A. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.

PART 2 PRODUCTS

2.01 MATERIALS - STEEL

A. Steel Tubing: ASTM A500/A500M, Grade B cold-formed structural tubing.
B. Plates: ASTM A283.
C. Pipe: ASTM A53/A53M, Grade B Schedule 40, hot-dip galvanized finish.
D. Bolts, Nuts, and Washers: ASTM A325 (ASTM A325M), Type 1, plain.
E. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.
F. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

2.02 MATERIALS - ALUMINUM

A. Extruded Aluminum: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper.
B. Bolts, Nuts, and Washers: Stainless steel.

2.03 FABRICATION

A. Fit and shop assemble items in largest practical sections, for delivery to site.
B. Fabricate items with joints tightly fitted and secured.
C. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

2.04 FINISHES - STEEL

A. Prime paint all steel items.
1. Exception: Galvanize items to be embedded in concrete.
B. Prime Painting - Onecoat

2.05 FINISHES - ALUMINUM

A. Exterior Aluminum Surfaces: Class I color anodized. Match existing conditions or as specified.
B. Interior Aluminum Surfaces: Class I natural anodized.
C. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils thick.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install items plumb and level, accurately fitted, free from distortion or defects.
B. Field weld components as indicated on drawings.

END OF SECTION

SECTION 05 7500
FORMED METAL FABRICATIONS

PART 1 GENERAL

1.01 SUBMITTALS

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.

PART 2 PRODUCTS

2.01 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. Coordination: Match dimensions and attachment of formed metal items to adjacent construction. Produce integrated assemblies. Closely fit joints; align edges and flat surfaces unless indicated otherwise.
C. Forming: Profiles indicated. Maximize lengths. Fold exposed edges to form hem indicated or ease edges to radius indicated with concealed stiffener. Provide flat, flush surfaces without cracking or grain separation 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.

2.02 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 tight joints.
B. Metal Base: Form metal base from type and thickness of metal indicated. Provide integral cove, reveals and other features shown on drawings.
C. Mullion Cladding: Form mullion cladding from type and thickness of metal indicated. Fit tightly to adjacent constructions.

2.03 MATERIALS

A. General: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
B. Aluminum Sheet: ASTM B209 or ASTM B209M, 5005-H32 minimum; alloy and temper recommended by aluminum producer and finisher for use and finish indicated.
C. Stainless Steel Sheet: ASTM A666, Type 304; stretcher-leveled.
D. Anchors, Clips and Accessories: Use one of the following:
1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666 .
E. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.
F. Bituminous Coating: Cold-applied asphalt mastic, noncorrosive compound free of asbestos, sulfur, and other deleterious impurities; 15 mil dry film thickness per coat.

2.04 FINISHES

A. Finishes, General: Comply with NAAMM AMP 500-06.
1. Complete mechanical finishes before 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 otherwise indicated.
4. Appearance: Limit variations in appearance of adjacent pieces to one-half of range represented in approved samples. Noticeable variations in same piece are not acceptable. Install components within 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. Factory Prime: Apply shop primer to prepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA 1.
C. Stainless Steel Finishes:
1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
2. Polished Finishes: Comply with NAAMM AMP 500-06; grind and polish surfaces to uniform finish free of cross scratches. Run grain of directional finishes with long dimension of each item.
3. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

PART 3 EXECUTION

3.01 INSTALLATION - SHEET METAL AND PLATE FABRICATIONS

A. Locate and place formed sheet metal items level and plumb; align with adjacent construction. Cut, drill and fit as required to install.

END OF SECTION

SECTION 06 0573
WOOD TREATMENT

PART 2 PRODUCTS

1.01 SITE APPLIED WOOD TREATMENT

A. Site Applied Termiticide for Wood, Steel and Concrete: Borate mineral salt based, spray applied termiticide formulated for use on wood, steel, concrete and other building materials.
1. Active Ingredient: 40% minimum disodium octaborate tetrahydrate (DOT).
B. Surface-Applied Fire-Retardant:

PART 3 EXECUTION

2.01 PREPARATION

A. Remove dust, dirt and other contaminants from treatment surfaces. Remove tarpaulins, dropcloths, strippable protective films, etc., from areas to be treated Move equipment and stored materials that block or prevent product application.

2.02 INSTALLATION - GENERAL

A. Provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

2.03 SITE APPLIED WOOD TREATMENT

A. Comply with manufacturers written mixing and installation instructions.
B. Termiticide: Apply to foundations, structure and other items as listed.
END OF SECTION

SECTION 06 1000
ROUGH CARPENTRY

PART 2 PRODUCTS

1.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
1. Species: Douglas Fir-Larch, unless otherwise indicated.
B. Lumber fabricated from old growth timber is not permitted.

1.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Sizes: Nominal sizes as indicated on drawings, S4S.
B. Moisture Content: S-dry or MC19.
C. Grading Agency: .
1. Grading Agency: Western Wood Products Association; WWPA G-5.
2. Sizes: Nominal sizes as indicated on drawings, S4S.
3. Moisture Content: S-dry or MC19.
4. Stud Framing (2 by 2 through 2 by 6):
a. Species: Any allowed under referenced grading rules.
b. Species: Douglas Fir-Larch.
c. Grade: No. 2.
D. Joist, Rafter, and Small Beam Framing (2 by 6 through 4 by 16):
E. Machine stress-rated (MSR) as follows:
1. Fb-single (minimum extreme fiber stress in bending): 1350 psi.
2. E (minimum modulus of elasticity): 1,300,000 psi.
3. Grade: No. 1 and Better.
F. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No. 2 or Standard Grade.
2. Boards: Standard or No. 3.

1.03 EXPOSED DIMENSION LUMBER

A. Grading Agency: Western Wood Products Association; WWPA G-5.
B. Sizes: Nominal sizes as indicated on drawings.
C. Surfacing: S4S.
D. Moisture Content: S-dry or MC19.
E. Stud Framing (2 by 2 through 2 by 6):
1. Species: Western Cedar.
2. Grade: Appearance (hand selected).
F. Joist, Rafter, and Small Beam Framing (2 by 2 through 2 x 6):
1. Species: Western Cedar.
2. Grade: Appearance (hand selected).

1.04 STRUCTURAL COMPOSITE LUMBER

A. Structural Composite Lumber: Factory fabricated beams, headers, and columns, of sizes and types indicated on drawings; structural capacity as published by manufacturer.
1. Beams: Use laminated veneer lumber, laminated strand lumber, or parallel strand lumber with manufacturer's published E (modulus of elasticity): 1,800,000 psi, minimum.

1.05 EXPOSED BOARDS

A. Moisture Content: Kiln-dry (15 percent maximum).
B. Surfacing: S4S.
C. Species: Western Cedar.
D. Grade: Clear.

1.06 CONSTRUCTION PANELS

A. Subfloor/Underlayment Combination: Any PS 2 type, rated Single Floor.
1. Bond Classification: Exposure 1.
2. Span Rating: 48.
3. Performance Category: 1-1/8 PERF CAT.
4. Edges: Tongue and groove.
B. Underlayment Combination: Oriented strand board wood structural panel; PS 2 , rated .
1. Bond Classification: Exterior.
2. Span Rating: 20.
3. Edges: Tongue and groove.
4. Wall Sheathing: For interior walls for attachment of equipment Any PS 2 type.
a. Bond Classification: Exterior.
b. Grade: Structural I Sheathing.
c. Span Rating: 24.
d. Performance Category: 5/8 PERF CAT.
e. Edge Profile: Tongue and groove..
5. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

1.07 ACCESSORIES

A. Fasteners and Anchors:
1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
B. Sill Gasket on Top of Foundation Wall: 1/4 inch thick, plate width, closed cell plastic foam from continuous rolls.
C. Subfloor Glue: Waterproof, water base, air cure type, cartridge dispensed.
1. Drywall Screws: Bugle head, hardened steel, power driven type, length three times thickness of sheathing.
2. Anchors: Toggle bolt type for anchorage to hollow masonry.
D. Joist Hangers: Hot dipped galvanized steel, sized to suit framing conditions.
1. For contact with preservative treated wood in exposed locations, provide minimum G185 galvanizing complying with ASTM A653/A653M.
E. Building Paper: Water resistant Kraft paper.

1.08 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

PART 3 EXECUTION

2.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.
B. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

2.02 FRAMING INSTALLATION

A. Set structural members level, plumb, and true to line. Discard pieces with defects that would lower required strength or result in unacceptable appearance of exposed members.
B. Install structural members full length without splices unless otherwise specifically detailed.
C. Install horizontal spanning members with crown edge up and not less than 1-1/2 inches of bearing at each end.

2.03 INSTALLATION OF CONSTRUCTION PANELS

A. Subflooring: Glue and Screw to framing; staples are not permitted.
B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using screws.

END OF SECTION

SECTION 06 2000
FINISH CARPENTRY

PART 1 GENERAL

1.01 SUBMITTALS

A. Samples: Submit two samples of wood trim 8 inch long.

PART 2 PRODUCTS

2.01 FINISH CARPENTRY ITEMS

A. Quality Standard: Premium Grade, in accordance with AWI/AWMAC/WI (AWS), unless noted otherwise.
B. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by applicable code.
C. Wood fabricated from old growth timber is not permitted.

2.02 LUMBER MATERIALS

A. Hardwood Lumber: white oak species, rift sawn, maximum moisture content of 6 percent , of quality suitable for transparent finish .
1. Grading: In accordance with NHLA G-101 Grading Rules; www.nhla.org.

2.03 SHEET MATERIALS

A. Hardwood Plywood: Face species as indicated, rift cut, book matched, veneer core; HPVA HP-1 Front Face Grade AA Back Face Grade 1, glue type as recommended for application.

2.04 HARDWARE

A. Hardware: Comply with BHMA A156.9.

2.05 WOOD TREATMENT

A. Factory-Treated Lumber: Comply with requirements of AWPA U1 - Use Category System for pressure impregnated wood treatments determined by use categories, expected service conditions, and specific applications.

2.06 FABRICATION

A. Shop assemble work for delivery to site, permitting passage through building openings.

2.07 SHOP FINISHING

A. Sand work smooth and set exposed nails.
B. Apply wood filler in exposed nail and screw indentations.
C. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:

PART 3 EXECUTION

3.01 INSTALLATION

A. Install custom fabrications in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
B. Install factory-fabricated units in accordance with manufacturer's printed installation instructions.
C. Set and secure materials and components in place, plumb and level.
D. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

END OF SECTION

SECTION 06 4100
ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.01 SUBMITTALS

A. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.

1.02 QUALITY ASSURANCE

A. Quality Certification:
1. Replace, repair, or rework all work for which certification is refused.

PART 2 PRODUCTS

2.01 CABINETS

A. Quality Standard: Premium Grade, in accordance with AWI/AWMAC/WI (AWS), unless noted otherwise.
B. Wood Veneer Faced Cabinet:
1. Exposed Surfaces: HPVA HP-1 Grade A, white oak, rift cut and comb grain, book-matched.
2. Concealed Surfaces: Melamine surfaces.
C. Cabinets:
1. Finish - Exposed Exterior Surfaces: Wood.
2. Finish - Exposed Interior Surfaces: Solid phenolic.
3. Finish - Semi-Exposed Surfaces: Wood
4. Door and Drawer Front Edge Profiles: Square edge with thick applied band.
5. Casework Construction Type: Type A - Frameless.
6. Interface Style for Cabinet and Door: Style 1 - Overlay; .
7. Grained Face Layout for Cabinet and Door Fronts: Flush panel.
a. Premium Grade:
1. Provide vertical run and match for doors, drawer fronts and false fronts within each cabinet unit.
a. Cabinet Design Series: As indicated on drawings.
b. Adjustable Shelf Loading: 50 lbs. per sq. ft.
c. Cabinet Style: Flush overlay.
d. Cabinet Doors and Drawer Fronts: Flush style.
1. **WOOD-BASED COMPONENTS**
1. Wood fabricated from old growth timber is not permitted.
2. **COUNTERTOPS**
1. Countertops are as shown on plans.
3. **ACCESSORIES**
1. Adhesive: Type recommended by fabricator to suit application.
2. Grommets: Standard painted metal grommets for cut-outs, in color to match adjacent surface.
4. **HARDWARE**
1. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
2. Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch spacing adjustments.
3. Drawer and Door Pulls: Extruded aluminum pull, full width of drawer, satin finish.
4. Hinges: European style concealed self-closing type, steel with satin finish.
5. **FABRICATION**
1. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
6. **SHOP FINISHING**
1. Sand work smooth and set exposed nails and screws.
2. On items to receive transparent finishes, use wood filler matching or blending with surrounding surfaces and of types recommended for applied finishes.
3. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
a. Transparent:
1. System - 2, Lacquer, Precatalyzed.
2. Sheen: Satin.

A. PART 3 EXECUTION

1. INSTALLATION

1. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
2. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
3. Use concealed joint fasteners to align and secure adjoining cabinet units.

END OF SECTION

SECTION 06 8316
FIBERGLASS REINFORCED PANELING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

PART 2 PRODUCTS

2.01 PANEL SYSTEMS

A. Wall Panels:
1. Panel Size: 4 by 10 feet.
2. Panel Thickness: 0.10 inch.
3. Surface Design: Embossed.
4. Color: White.
5. Attachment Method: Adhesive only with trim and sealant in joints.

2.02 MATERIALS

A. Panels: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.
1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in accordance with ASTM E84.
2. Class 1 fire rated when tested in accordance with FM 4880.
B. Trim: Vinyl; color coordinating with panel.
C. Adhesive: Type recommended by panel manufacturer.
D. Sealant: Type recommended by panel manufacturer; white.

PART 3 EXECUTION

3.01 INSTALLATION - WALLS

A. Install panels in accordance with manufacturer's instructions.
B. Seal gaps at floor, ceiling, and between panels with applicable sealant to prevent moisture intrusion.

END OF SECTION

SECTION 07 2100
BOARD AND BATT INSULATION

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on performance criteria and product limitations.

PART 2 PRODUCTS

2.01 APPLICATIONS

A. Insulation Over Metal Stud Framed Walls, Continuous: Extruded polystyrene (XPS) board.
B. Insulation in Metal Framed Walls: Batt insulation with integral vapor retarder.
C. Insulation in Wood Framed Walls: Batt insulation with separate vapor retarder.
D. Insulation in Wood Framed Ceiling Structure: Batt insulation with no vapor retarder.
E. Insulation Above Gypsum Board Ceilings (Restrooms and Offices): Batt insulation with no vapor retarder.

2.02 FOAM BOARD INSULATION MATERIALS

A. Extruded Polystyrene Board Insulation: Extruded polystyrene board ; ASTM C578; with natural skin surfaces, and the following characteristics:
1. Type and Compressive Resistance: Type IV, 25 psi (173 kPa), minimum.
2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
a. Type and Thermal Resistance, R-value: Type IV, 5.0 (0.88) per 1 inch thickness at 75 degrees F mean temperature.
b. Complies with fire resistance requirements specified as part of an exterior non-load-bearing exterior wall assembly when tested in accordance with NFPA 285.
c. Board Edges: Shiplap.
B. Polyisocyanurate (ISO) Board Insulation: Rigid cellular foam, complying with ASTM C1289.
1. Classifications:
a. Type I: Faced with aluminum foil on both major surfaces of the core foam.
1. Class 1 - Non-reinforced core foam.
2. Compressive Strength: 16 psi, minimum.
3. Thermal Resistance, R-value: At 1-1/2 inch thick; 9.0 at 75 degrees F.
a. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
b. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
c. Complies with fire resistance requirements indicated on drawings as part of an exterior non-load-bearing exterior wall assembly when tested in accordance with NFPA 285.
d. Board Size: 48 inch by 96 inch.
e. Board Thickness: 1.5 inch.
f. Board Edges: Square.

1. BATT INSULATION MATERIALS

1. Where batt insulation is indicated, either glass fiber or mineral fiber batt insulation may be used, at General Contractor's option.
2. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
a. Flame Spread Index: 75 or less, when tested in accordance with ASTM E84.
b. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
c. Combustibility: Non-combustible, when tested in accordance with ASTM E136.
3. Mineral Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit; unfaced flame spread index of 0 (zero) when tested in accordance with ASTM E84.
a. Smoke Developed Index: 0 (zero), when tested in accordance with ASTM E84.
b. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.

2. ACCESSORIES

1. Tape joints of rigid insulation in accordance with roofing and insulation manufacturers' instructions.
a. Interior Vapor Retarder: Modified polyethylene/polyacrylate (PE/PA) film reinforced with polyethylene terephthalate (PET) fibers, 12 mils, 0.012 inch thick.
b. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
1. Application: Sealing of interior circular penetrations, such as pipes or cables.

A. PART 3 EXECUTION

1. BOARD INSTALLATION AT EXTERIOR WALLS

1. Adhere 6 inches wide strip of polyethylene sheet over expansion joints with double beads of adhesive each side of joint.

2. BATT INSTALLATION

1. Install insulation in accordance with manufacturer's instructions.
2. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.

END OF SECTION

SECTION 07 8400
FIRESTOPPING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on product characteristics, performance ratings, and limitations.

1.02 FIELD CONDITIONS

A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation; maintain minimum temperature before, during, and for three days after installation of materials.

PART 2 PRODUCTS

2.01 FIRESTOPPING SYSTEMS

A. Firestopping at Uninsulated Metallic Pipe and Conduit Penetrations, of diameter 4 inches or less: Caulk or putty.
B. Firestopping at Combustible Pipe and Conduit Penetrations, of diameter 4 inches or less: Any material meeting requirements.
C. Firestopping at Control Joints (without Penetrations): Any material meeting requirements.
D. Firestopping Between Top of Partition Wall and Roof Slab: Fiber firestopping with smoke seal coating; UL Design No. per details and schedules on plans., F Rating 1 hour, provide at locations as indicated on drawings.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.
B. Do not cover installed firestopping until inspected by authorities having jurisdiction.

END OF SECTION

SECTION 07 9200
JOINT SEALERS
PART 1 GENERAL

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.
PART 2 PRODUCTS
2.1 Materials:
A. Polyurethane 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. "SCS1000 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/firestop
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 w/ sealants.
PART 3 EXECUTION
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 1/4 " in width.
C. Installation: Install joint sealant materials in strict accordance with manufacturer 's installation instructions.
2. 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.
3. Install joint sealants to a depth no more than ½ the width of the joint.
4. 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;
5. 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.
6. 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:
1. Provide a continuous bead of white GE SCS1702 silicone at the following locations:
a. Ceiling grid to FRP wall panels
b. Base of FRP wall panels to T.O. specified base material.
c. Walk in cooler walls to FRP wall panels.
d. Stainless closure pieces at cooler walls to FRP wall panels.
e. FRP/stainless corner guards to FRP wall panels.
f. Ceiling tile pipe penetrations.
g. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
h. Mop sink stainless surround perimeter to walls.
i. FRP closure panel, at top of cooler, to cooler walls.
j. FRP wall panels to hollow metal door frames.
k. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
l. Battery backup cover panel to FRP.
m. Faucet's to FRP wall panels.
n. Mop sink base at quarry tile.
o. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
p. Paper towel dispensers & soap dispensers to FRP/tile walls.

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sg
sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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07/25/2025

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PLAZA MIDWOOD

PROJECT INFORMATION:
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SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

SPECIFICATIONS

A-703

SECTION 07 9200 CONTINUED

2. Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
   a. Stainless closer pieces, at sides of cooler walls - to cooler walls.
   b. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
   c. Diamond plate panel seam joints.
   d. Diamond plate perimeter to cooler walls.
   e. Base of diamond plate to quarry tile cove base.
   f. Stainless closure panel, at top of cooler walls, to cooler walls.
   g. Top of quarry tile cove base to cooler walls at inside of cooler.
   h. Cooler wall/diamond plate penetrations.
   i. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
   j. Stainless wrap at hollow metal door frame.
   k. Stainless mop surround to stainless corners on mop sink.
   l. Base of stainless corner pieces to Schlutter strip at base.
   m. Exit door threshold perimeters. To frame and floor, interior and exterior.
3. Provide a continuous bead of dark gray GE SCS2010 silicone at the following locations:
   a. Base of hollow metal door jambs to quarry tile floor.

B. Managers Office:
1. Provide a continuous bead of white GE SCS1702 silicone at the following locations:
   a. Ceiling grid to FRP wall panels.
   b. Perimeter of manager's desk to FRP wall panels.
   c. Hollow metal door frame to FRP wall panels.
   d. Top and ends of coat hanger bracket to FRP walls.
   e. Base of FRP wall panels to quarry tile base.
   f. Ceiling tile wire/pipe penetrations.
   g. FRP inside corners to FRP wall panels. Both sides of corner piece.
   h. Base of FRP wall panels to quarry tile.
2. Provide a continuous bead of black GE SCS2003 or light bronze GE SCS2096 (match safe) silicone at the following locations:
   a. Base of safe to floor.

C. Cooking Area:
1. Provide a continuous bead of white GE SCS1702 silicone at the following locations:
   a. Top of wall tile to ceiling.
   b. Ceiling diffusers perimeters to sheetrock ceiling.
   c. Ceiling pipe penetrations.
   d. Wall tile to aluminum walk thru surround.
   e. Tile wall penetrations/escutcheons perimeters.
   f. FRP wall panels to sheetrock ceilings.
   g. FRP wall panels to aluminum end wall plates.
   h. FRP inside corners to FRP wall panels. Both sides of corner piece.
   i. Sink to white tile.
   j. Paper towel dispenser/soap dispenser to white tile.
   k. POS/Serving counter to wall tile.
   l. Stainless shelf behind grill to wall tile.
   m. Faucets to ceramic wall tile.
   n. Second make line counter to walls.
2. Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
   a. Joint between hood and closure skirt.
   b. Joint between hood support and hood. Both sides.
   c. Connection joint between stainless shelf behind grill.
   d. Hood to tile walls & sheetrock ceiling.
   e. Hood gusset to wall tile on both sides.
   f. Sink to bronze wall tile.
   g. Paper towel dispenser/soap dispenser to bronze tile.
   h. Fax line counter to bronze tile.
3. Provide a continuous bead of dark gray GE SCS2010 at the following locations:
   a. Base of equipment to concrete curbs/quarry tile.
4. Provide a continuous bead of regular bronze GE SCS2097 at the following locations:
   a. Ceramic tile inside corners.
   b. Ceramic tile to aluminum end wall plates.

D. Restrooms:
1. Provide a continuous bead of white GE SCS1702 silicone at the following locations:
   a. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
   b. Perimeter of toilets/urinals to floor or FRP.
   c. Perimeter of mirror to FRP.
   d. Sink to wall.
   e. Perimeter of paper towel/garbage unit to wall.
   f. Toilet paper/napkin disposals units to walls.
   g. Stainless shelf to wall.
   h. Wall penetrations under sink and or escutcheons to perimeters.
   i. Hollow metal door frames to FRP.
   j. Base of FRP wall panels to top of wall base.
   k. FRP inside corners to FRP wall panels.
2. Provide a continuous bead of black GE SCS2003 silicone at the following locations:
   a. Base of black rubber wall base to floor.
3. Provide a continuous bead of dark gray GE SCS2010 silicone at the following locations:
   a. Base of hollow metal door frames to floor.

END OF SECTION

SECTION 08 1113
METAL DOORS AND FRAMES
PART 1 GENERAL
1.01 SUBMITTALS
A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced standards/guidelines.
PART 2 PRODUCTS
2.01 PERFORMANCE REQUIREMENTS
A. Requirements for Hollow Metal Doors and Frames:
1. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
2. Accessibility: Comply with ICC A117.1, ADA Standards, and applicable building code requirements as they pertain to this location..
3. Exterior Door Top Closures: Flush end closure channel, with top and door faces aligned.
4. Door Edge Profile: Manufacturers standard for application indicated.
5. Typical Door Face Sheets: Flush.
6. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Security.
7. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

B. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.02 HOLLOW METAL DOORS
A. Door Finish: Factory primed and field finished.
B. Exterior Doors: Thermally insulated.
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
   a. Level 3 - Extra Heavy-duty.
   b. Physical Performance Level A, 1,000,000 cycles; in accordance with ANSI/SDI A250.4.
   c. Model 1 - Full Flush.
   d. Door Face Metal Thickness: 16 gauge, 0.053 inch, minimum.
2. Door Core Material: Manufacturers standard core material/construction and in compliance with requirements.
3. Door Thickness: 1-3/4 inches, nominal.
4. Weatherstripping: refer to door schedule on drawings.
5. Door Finish: Factory primed and field finished.

C. Interior Doors, Non-Fire-Rated:
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
   a. Level 2 - Heavy-duty.
   b. Physical Performance Level C, 250,000 cycles; in accordance with ANSI/SDI A250.4.
   c. Model 1 - Full Flush.
   d. Door Face Metal Thickness: 20 gauge, 0.032 inch, minimum.
2. Door Core Material: Manufacturers standard core material/construction and in compliance with requirements.
3. Door Thickness: 1-3/4 inches, nominal.
4. Door Finish: Factory primed and field finished.

D. Fire-Rated Doors:
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
   a. Level 2 - Heavy-duty.
   b. Physical Performance Level C, 250,000 cycles; in accordance with ANSI/SDI A250.4.
   c. Model 1 - Full Flush.
   d. Door Face Metal Thickness: 20 gauge, 0.032 inch, minimum.
2. Fire Rating: As indicated on Door Schedule, tested in accordance with UL 10C and NFPA 252 ("positive pressure fire tests").
   a. Provide units listed and labeled by UL (DIR).
   b. Attach fire rating label to each fire rated unit.
3. Door Core Material: Manufacturers standard core material/construction in compliance with requirements.
4. Door Thickness: 1-3/4 inches, nominal.
5. Door Finish: Factory primed and field finished.

2.03 HOLLOW METAL FRAMES
A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.
B. Frame Finish: Factory primed and field finished.
C. Exterior Door Frames: Full profile/continuously welded type.
1. Frame Metal Thickness: 18 gauge, 0.042 inch, minimum.
2. Weatherstripping: Separate, see Section 08 7100.
D. Interior Door Frames, Non-Fire Rated: Face welded type.
1. Frame Metal Thickness: 18 gauge, 0.042 inch, minimum.
E. Door Frames, Fire-Rated: Full profile/continuously welded type.
1. Fire Rating: Same as door, labeled.
2. Frame Metal Thickness: 18 gauge, 0.042 inch, minimum.
F. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.
G. Frames in Masonry Walls: Size to suit masonry coursing with head member 4 inches high to fill opening without cutting masonry units.

2.04 FINISHES
A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

2.05 ACCESSORIES
A. Door Window Frames: Door window frames with glazing securely fastened within door opening.
1. Size: As indicated on drawings.
2. Frame Material: 18 gauge, 0.0478 inch, galvanized steel.
3. Glazing: 1/4 inch thick, tempered glass, in compliance with requirements of authorities having jurisdiction.
B. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions .
C. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

PART 3 EXECUTION
3.01 INSTALLATION
A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.
B. Install fire rated units in accordance with NFPA 80.
C. Coordinate frame anchor placement with wall construction.

END OF SECTION

SECTION 08 3100
ACCESS DOORS AND PANELS
PART 1 GENERAL
1.01 SUBMITTALS
A. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and details of adjoining work.
PART 2 PRODUCTS
2.01 ACCESS DOORS AND PANELS ASSEMBLIES
A. Wall-Mounted Units:
1. Location: as required or as shown on drawings or as required to meet code requirements.
2. Panel Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated.
3. Size: 12 by 12 inches.
4. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.
5. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
B. Wall-Mounted Units in Wet Areas:
1. Location: As indicated on drawings are as needed to gain access to concealed functions..
2. Panel Material: Steel, hot-dipped zinc, or zinc-aluminum-alloy coated.
3. Size: 12 by 12 inches.
4. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.
5. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
6. Gypsum Board Mounting Criteria: Provide drywall bead frame with door surface flush with wall surface.
C. Fire-Rated Wall-Mounted Units:
1. Location: As indicated on drawings.
2. Wall Fire-Rating: As indicated on drawings.
3. Panel Material: Steel.
4. Size: 12 by 12 inches.
5. Door/Panel: Insulated double-surface panel, with tool-operated spring or cam lock and no handle.
D. Ceiling-Mounted Units:
1. Location: As indicated on drawings or as required by code or for access to concealed functions.
2. Panel Material: Steel, hot-dipped zinc, or zinc-aluminum-alloy coated.
3. Size - Lay-In Grid Ceilings: To match module of ceiling grid.
4. Size - Other Ceilings: 24" by 24" inches or as need in chase or as needed for access.
5. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.

2.02 WALL AND CEILING MOUNTED ACCESS UNITS
A. Wall and Ceiling Mounted Units: Factory fabricated door and frame, fully assembled units with corner joints welded, filled and ground flush; square and without rack or warp; coordinate requirements with type of installation assembly being used for each unit.
1. Style: Exposed frame with door surface flush with frame surface.
   a. Gypsum Board Mounting Criteria: Use drywall bead type frame.
2. Door Style: Single thickness with rolled or turned in edges.
3. Frames: 16 gauge, 0.0598 inch, minimum thickness.
4. Heavy Duty Frames: 14 gauge, 0.0747 inch, minimum thickness.
5. Units in Fire-Rated Assemblies: Fire rating as required by applicable code for fire-rated assembly that access doors are being installed.
6. Steel Finish: Primed.
7. Door/Panel Size: As indicated on the drawings.
8. Hardware:
   a. Hardware for Fire-Rated Units: As required for listing.
   b. Hinges for Non-Fire-Rated Units: Concealed, constant force closure spring type.
   c. Latch/Lock: Screw driver slot for quarter turn cam latch.

PART 3 EXECUTION
3.01 INSTALLATION
A. Install units in accordance with manufacturer's instructions.
B. Install frames plumb and level in openings, and secure units rigidly in place.

END OF SECTION

SECTION 08 4313
ALUMINUM-FRAMED STOREFRONTS
PART 1 GENERAL
1.01 GENERAL
A. Provide aluminum entrances and storefronts as shown and specified or to match existing storefront design.
1.02 WARRANTY
A. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.
1. WARRANTY
   a. Correct defective Work within a five year period after Date of Substantial Completion.
   b. Provide five year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units.

PART 2 PRODUCTS
2.01 ACCESSORY MATERIALS
A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in Section 07 9200 - JOINT SEALERS.
2.02 ALUMINUM FINISHES
A. Extruded Aluminum: ASTM B221 (ASTM B221M).
1. Sheet Aluminum: ASTM B209 (ASTM B209M).
2. Color, extrusions, size, etc. to match existing.
3. Fasteners: Stainless steel.
4. Exposed Flashings: Aluminum sheet, 20 gauge, 0.032 inch minimum thickness; finish to match framing members.

2.03 HARDWARE
A. For each door, include weatherstripping, sill sweep strip, and threshold.
B. Other Door Hardware: Storefront manufacturer's standard type to suit application.
1. Finish on Hand-Contacted Items: as noted on drawings. .
2. For each door, include butt hinges, pivots, push handle, pull handle, exit device, narrow stile handle latch, and closer.

PART 3 EXECUTION
3.01 INSTALLATION
A. Install wall system in accordance with manufacturer's instructions.
B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
C. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

END OF SECTION

SECTION 08 7100
DOOR HARDWARE
PART 1 GENERAL
1.01 SUBMITTALS
A. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
PART 2 PRODUCTS
2.01 DESIGN AND PERFORMANCE CRITERIA
A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
B. Provide door hardware products that comply with the following requirements:
1. Applicable provisions of federal, state, and local codes.
2. Fire-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
3. Hardware on Fire-Rated Doors: Listed and classified by UL (DIR) or testing firm acceptable to authorities having jurisdiction as suitable for application indicated.

2.02 HINGES
A. Hinges: Comply with BHMA A156.1, Grade 1.
1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
2. Continuous Hinges: Comply with BHMA A156.26.
3. Provide hinges on every swinging door.
4. Provide ball-bearing hinges at each door with closer.
5. Provide non-removable pins on exterior outswinging doors.
6. Provide following quantity of butt hinges for each door:
   a. Doors From 60 inches High up to 90 inches High: Three hinges.
   b. Doors 90 inches High up to 120 inches High: Four hinges.
   c. Dutch Doors: Two hinges each leaf.

2.03 FLUSH BOLTS
A. Flush Bolts: Comply with BHMA A156.16, Grade 1.
1. Flush Bolt Throw: 3/4 inch, minimum.
2. Provides extension bolts in leading edge of door, one bolt into floor, one bolt into top of frame.
   a. Pairs of Swing Doors: At inactive leaves, provide flush bolts of type as required to comply with code.

2.04 EXIT DEVICES
A. Exit Devices: Comply with BHMA A156.3, Grade 1.
1. Lever design to match lockset trim.
2. Provide cylinder with cylinder dogging or locking trim.
3. Provide exit devices properly sized for door width and height.
4. Provide strike as recommended by manufacturer for application indicated.
5. Provide UL (DIR) listed exit device assemblies for fire-rated doors and panic device assemblies for non-fire-rated doors.

2.05 MORTISE LOCKS
A. Mortise Locks: Comply with BHMA A156.13, Grade 1, Security, 1000 Series.
1. Latchbolt Throw: 3/4 inch, minimum.
2. Deadbolt Throw: 1 inch, minimum.
3. Backset: 2-3/4 inch unless otherwise indicated.
4. Strikes: Provide manufacturer's standard strike for each latchset or lockset with strike box and curved lip extending to protect frame in compliance with indicated requirements.
   a. Finish: To match lock or latch.

2.06 DOOR PULLS AND PUSH PLATES
A. Door Pulls and Push Plates: Comply with BHMA A156.6.
1. Pull Type: Straight, unless otherwise indicated.
2. Push Plate Type: Flat, with rounded corners, unless otherwise indicated.
   a. Edges: Beveled, unless otherwise indicated.
3. Material: Aluminum, unless otherwise indicated.
4. Provide door pulls and push plates on doors without a lockset, latchset, exit device, or auxiliary lock unless otherwise indicated.
5. On solid doors, provide matching door pull and push plate on opposite faces.

2.07 CLOSERS
A. Closers: Comply with BHMA A156.4, Grade 1.
1. Type: As indicated in door hardware sets.
2. Provide door closer on each exterior door.
3. Provide door closer on each fire-rated.

2.08 KICK AND MOP PLATES
A. Kick and Mop Plates: Provide along bottom edge of push side of every door with closer, except aluminum storefront and glass entry doors, unless otherwise indicated.
1. Size: 12 inch high by 2 inch less door width (LDW) on push side of door.

2.09 DOOR HOLDERS
A. Door Holders: Comply with BHMA A156.16, Grade 1.
1. Type: Lever, or kick down stop, with rubber bumper at bottom end.
2. Material: Aluminum.

2.10 FLOOR STOPS
A. Floor Stops: Comply with BHMA A156.16, Grade 1 and Resilient Material Retention Test as described in this standard.
1. Type: Manual hold-open, with pencil floor stop.
2. Material: Aluminum housing with rubber insert.

2.11 WALL STOPS
A. Wall Stops: Comply with BHMA A156.16, Grade 1 and Resilient Material Retention Test as described in this standard.
1. Type: Bumper, concave, wall stop.
2. Material: Aluminum housing with rubber insert.

2.12 THRESHOLDS
A. Thresholds: Comply with BHMA A156.21.
1. Provide threshold at each exterior door, unless otherwise indicated.
2. Type: Flat surface.
3. Material: Aluminum.
4. Threshold Surface: Fluted horizontal grooves across full width.
5. Field cut threshold to profile of frame and width of door sill for tight fit.

2.13 WEATHERSTRIPPING AND GASKETING
A. Weatherstripping and Gasketing: Comply with BHMA A156.22.
1. Head and Jamb Type: Adjustable.
2. Door Sweep Type: Encased in retainer.
3. Material: Aluminum, with brush weatherstripping.
4. Provide weatherstripping on each exterior door at head, jambs, and meeting stiles of door pairs, unless otherwise indicated; .
5. Provide door bottom sweep on each exterior door, unless otherwise indicated.

2.14 COAT HOOKS
A. Coat Hooks: Provide on room side of door, screw fastened.
1. Material: Brass.

2.15 LATCH PROTECTOR
A. Latch Protector: Provide on door to protect latch from being tampered with while in locked position.
1. Type: Standard latch protector.
2. Material: Stainless steel.

2.16 SILENCERS
A. Silencers: Provide at equal locations on door frame to mute sound of door's impact upon closing.
1. Single Door: Provide three on strike jamb of frame.
2. Pair of Doors: Provide two on head of frame, one for each door at latch side.
3. Material: Rubber, gray color.

2.17 VIEWER
A. Viewer: Provide at inside of door at eye level to see who is on outside of door .
1. Material: Brass.

2.18 FIRE DEPARTMENT LOCK BOX
A. Fire Department Lock Box: Manufacturer Know Rapid Access System "KnoxBox"
1. Heavy-duty, surface mounted, solid stainless-steel box with hinged door and interior gasket seal; single drill resistant lock with dust covers and tamper alarm.
2. Capacity: Holds 2 keys.
3. Finish: Manufacturer's standard dark bronze.

2.19 FINISHES
A. Finishes: Provide door hardware of same finish, unless otherwise indicated.
1. Primary Finish: 625; bright chromium plated over nickel, with brass or bronze base material (former US equivalent US26); BHMA A156.18.

PART 3 EXECUTION
3.01 INSTALLATION
A. Install hardware in accordance with manufacturer's instructions and applicable codes.
B. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.
C. Use templates provided by hardware item manufacturer.
D. Do not install surface mounted items until application of finishes to substrate are fully completed.

3.02 ADJUSTING
A. Adjust hardware for smooth operation.

END OF SECTION

SECTION 08 8000
GLAZING
PART 1 GENERAL
1.01 GENERAL
1.02 QUALITY ASSURANCE
1.03 WARRANTY
A. Sealed Insulating Glass Units: Provide a five (5) year warranty to include coverage for seal failure, interpane dusting or misting, including replacement of failed units.
PART 2 MATERIALS
2.01 MATERIALS
A. INSULATING GLASS UNITS
1. Type IG-1 - Sealed Insulating Glass Units: Vision glass, double glazed.
   a. Application: All exterior glazing unless otherwise indicated.
   b. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
      1. Tint: Clear.
      2. Coating: Self-cleaning type, on #1 surface.
      3. Coating: Low-E (passive type), on #2 surface.
   c. Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
      1. Tint: Clear.
      2. Coating: to match existing glass. , on #3 surface.
   d. Glazing Method: Gasket glazing.

A. PART 3 EXECUTION
1. INSTALLATION
1. INSTALLATION - EXTERIOR/INTERIOR DRY METHOD (GASKET GLAZING)
   a. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
   b. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
   c. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

END OF SECTION

SECTION 08 8723
SUN CONTROL FILM
PART 1 GENERAL
1.01 SUBMITTALS
A. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Record of product certification for safety requirements.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods.

1.02 WARRANTY
A. Provide 15 year manufacturer's replacement warranty to cover film against peeling, cracking, discoloration, and deterioration.
PART 2 PRODUCTS
2.01 SUN CONTROL FILM
A. Retrofit existing glazing assemblies to provide infrared rejection energy savings.
1. Surface applied film.
2. Requiring no supplemental anchoring devices.

2.02 MATERIALS
A. Glazing Film: 3M Sun Control Window Film Prestige Series 70 transparent film for permanent bonding to glass.
1. Color: Clear.
2. Light Transmission of Film Applied on 1/4 inch Thick Clear Annealed Glass:
   a. Visible Light Transmittance: 37 percent.
   b. Ultra Violet Light Transmittance: 1 percent, maximum.
   c. Solar Energy:
      1. Clear 44 percent reflected.
      2. Tinted 59 percent reflected.

A. PART 3 EXECUTION
1. INSTALLATION
1. Do not apply glazing film when surface temperature is less than 55 degrees F or if precipitation is imminent.
2. Install in accordance with manufacturer's instructions, without air bubbles, wrinkles, streaks, bands, thin spots, pinholes, or gaps, as required to achieve specified performance.
3. Accurately cut film with straight edges to required sizes allowing 1/16 inch to 1/8 inch gap at perimeter of glazed panel.

END OF SECTION

SECTION 09 2116
GYPSUM BOARD ASSEMBLIES
PART 1 GENERAL
1.01 SUBMITTALS
A. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.
PART 2 PRODUCTS
2.01 GYPSUM BOARD ASSEMBLIES
A. Provide completed assemblies complying with ASTM C840 and GA-216.
B. Shaft Walls at HVAC Shafts: Provide completed assemblies with the following characteristics:
1. Air Pressure Within Shaft: Sustained loads of 5 lbf/sq ft with maximum mid-span deflection of L/240.
2. Acoustic Attenuation: STC of 50-54 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.
C. Fire Rated Assemblies: Provide completed assemblies with the following characteristics:
1. Fire-Resistance-Rated Partitions: UL listed assembly No. per drawings.
2. Fire-Resistance-Rated Ceilings and Soffits: One (1) hour fire rating, or as required by drawings.
3. UL Assembly Numbers: Provide construction equivalent to that listed for the particular assembly in the current UL (FRD).

2.02 METAL FRAMING MATERIALS
A. Non-Loadbearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf.
1. Studs: "C" shaped with flat or formed webs with knurled faces.
B. Partition Head To Structure Connections: Provide track sized to structure with legs of sufficient length to accommodate deflection, for friction fit of studs cut short and fastened as indicated on drawings.
1. Runners: U shaped, sized to match studs.
2. Ceiling Channels: C-shaped.
3. Resilient Furring Channels: 3/4 inch depth, for attachment to substrate through both legs; both legs expanded metal mesh.
C. Shaft Wall Studs and Accessories: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 and specified performance requirements.

2.03 BOARD MATERIALS
A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
   a. Mold-resistant board is required whenever board is being installed before the building is enclosed and conditioned.
   b. Mold resistant board is required at all locations.
3. Thickness:
   a. Vertical Surfaces: 5/8 inch.
   b. Ceilings: 5/8 inch.
   c. Multi-Layer Assemblies: Thicknesses as indicated on drawings.

B. Backing Board For Wet Areas:
1. Application: Surfaces behind tile in wet areas including kitchen, restrooms and serving line.
2. ASTM Cement-Based Board: Non-gypsum-based, cementitious board complying with ASTM C1288.

C. Ceiling Board: Special sag-resistant gypsum ceiling board as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Ceilings, unless otherwise indicated.
2. Thickness: 5/8 inch.
3. Edges: Tapered.

2.04 ACCESSORIES
A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Thickness: 3-5/8" inch.
B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
C. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.
1. Corner Beads: Low profile, for 90 degree outside corners.
2. Architectural Reveal Beads:
   a. Reveal Depth: 1/2 inch.
   b. Reveal Width: 1/2 inch.

D. Joint Materials: ASTM C475 and as recommended by gypsum board manufacturer for project conditions.
1. Fiberglass Tape: 2 inch wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
2. Joint Compound: Drying type, vinyl-based, ready-mixed.

E. High Build Drywall Surfacer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.
F. Screws for Attachment to Steel Members From 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws for application of gypsum board to loadbearing steel studs.

PART 3 EXECUTION
3.01 SHAFT WALL INSTALLATION
A. Shaft Wall Framing: Install in accordance with manufacturer's installation instructions.
B. Shaft Wall Liner: Cut panels to accurate dimensions and install sequentially between special friction studs.

3.02 FRAMING INSTALLATION
A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.

3.03 ACOUSTIC ACCESSORIES INSTALLATION
A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

3.04 BOARD INSTALLATION
A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
B. Single-Layer Nonrated: Install gypsum board perpendicular to framing, with ends and edges occurring over firm bearing.
C. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

3.05 JOINT TREATMENT
A. Paper Faced Gypsum Board: Use paper joint tape, embed with drying type joint compound and finish with drying type joint compound.
B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
3. Level 3: Walls to receive textured wall finish.
4. Level 2: In utility areas, behind cabinetry, and on backing board to FRP finish.
5. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

3.06 TEXTURE FINISH
A. Apply finish texture coating by means of trowel in accordance with manufacturer's instructions and to match approved sample.

END OF SECTION

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LOS ANGELES, CALIFORNIA 90018

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07/25/2025

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PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

SPECIFICATIONS

A-704

SECTION 09 3000
TILE

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.

PART 2 PRODUCTS

2.01 TILE

A. Manufacturers: per the finish schedule on the drawings..

B. Ceramic Mosaic Tile: ANSI A137.1 standard grade.
1. Color(s): As indicated on drawings.
2. Trim Units: Matching bead, cove, and surface bullnose shapes in sizes coordinated with field tile.

C. Glazed Wall Tile: ANSI A137.1, standard grade.
a. Size: Per drawings and finish schedule inch
1. Surface Finish: as scheduled.
2. Color(s): As scheduled.
3. Pattern: per plans and elevations.
4. Trim Units: Matching bead, bullnose, cove, and base shapes in sizes coordinated with field tile.

2.02 TRIM AND ACCESSORIES

A. Trim: Matching bullnose, double bullnose, cove base, and cove ceramic shapes in sizes coordinated with field tile.

B. Non-Ceramic Trim: Satin natural anodized extruded aluminum, style and dimensions as indicated on drawings, for setting using tile mortar or adhesive.

2.03 SETTING MATERIALS

A. Provide setting and grout materials from same manufacturer.

B. Latex-Portland Cement Mortar Bond Coat: ANSI A118.4.

C. Organic Adhesive: ANSI A136.1, thinset mastic type.
1. Use Type I in areas subject to prolonged moisture exposure.

D. Mortar Bed Materials: Pre-packaged mix of Portland cement, sand, latex additive, and water.

2.04 GROUTS

A. Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
2. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.

B. Epoxy Grout: ANSI A118.3 chemical resistant and water-cleanable epoxy grout.
1. Applications: Where indicated Provide at "walk off" mat at entrance..

2.05 MAINTENANCE MATERIALS

A. Tile Sealant: Gunnable, silicone, siliconized acrylic, or urethane sealant; moisture and mildew resistant type.
1. Applications: Between tile and plumbing fixtures.

B. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout.
1. Composition: Water-based colorless silicone.

2.06 ACCESSORY MATERIALS

A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.
1. Crack Resistance: No failure at 1/8 inch gap, minimum.
2. Peel-and-Stick Sheet Type:
a. Material: Rubberized membrane laminated to reinforcing fabric.
3. Thickness: 20 mils, maximum.
4. Crack Resistance: No failure at 1/16 inch gap, minimum.

B. Waterproofing Membrane at Floors: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
1. Trowel Applied Type:
a. Material: Synthetic rubber
b. Thickness: 25 mils, minimum, dry film thickness.

C. Cleavage Membrane Under Thick Mortar Bed:
1. No. 15 asphalt saturated felt.

D. Membrane at Walls:
1. Material: No. 15 asphalt saturated felt.

E. Backer Board: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 5/8 inch thick; 2 inch wide coated glass fiber tape for joints and corners.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Install tile and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.19 , manufacturer's instructions, and TCNA (HB) recommendations.

3.02 INSTALLATION - FLOORS - THIN-SET METHODS

A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.

3.03 INSTALLATION - WALL TILE

A. Over cementitious backer units install in accordance with TCNA (HB) Method W223, organic adhesive.

END OF SECTION

SECTION 09 5100
ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on suspension system components and acoustical units.

PART 2 PRODUCTS

2.01 ACOUSTICAL UNITS

A. Vinyl Faced Lay-in Ceiling Panels
1. Size 24 x 48 inches or 24 x 24 as shown on plans.
2. Surface Texture: Smooth
3. Panel Edge: Square
4. Color: White
5. Suspension System: Exposed grid

2.02 SUSPENSION SYSTEM(S)

A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.

B. Materials:
1. Steel Grid: ASTM A653/A653M, G30 coating, unless otherwise indicated.

2.03 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.

C. Hold-Down Clips: Manufacturer's standard clips to suit application.

D. Seismic Clips: Manufacturer's standard clips for seismic conditions and to suit application.

E. Perimeter Moldings: Same metal and finish as grid.
1. At Exposed Grid: Provide L-shaped molding for mounting at same elevation as face of grid.

F. Acoustical Sealant For Perimeter Moldings: Non-hardening, non-skinning, for use in conjunction with suspended ceiling system.

PART 3 EXECUTION

3.01 PREPARATION

A. Install after major above-ceiling work is complete.

B. Coordinate the location of hangers with other work.

C. Provide hanger clips during steel deck erection. Provide additional hangers and inserts as required.

3.02 INSTALLATION - SUSPENSION SYSTEM

A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, ASTM C636/C636M, ASTM E580/E580M, ASTM C636/C636M, and ASTM E580/E580M and as supplemented in this section.

B. Lay out system to a balanced grid design with edge units no less than 50 percent of acoustical unit size.

3.03 INSTALLATION - ACOUSTICAL UNITS

A. Install acoustical units in accordance with manufacturer's instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Lay directional patterned units per plans..

END OF SECTION

SECTION 09-6724
RESINOUS FLOORING
POLY-CRETE MDB AND ACCELERA TOPCOAT with ELAST-O-COAT MEMBRANE

PART 1 – GENERAL

1.1 General: Provide labor and material for a ¼ inch thick seamless cementitious urethane flooring system, including cove base, surface preparation and finish texture.

A. Related section:
1. Concrete-Division 3.

B. Accepted manufacturer installers:
1. Contact Dylan Channel, Territory Sales Manager for Dur-A-Flex Inc. at 860.528.9838 or 913.277.7458, dylanc@dur-a-flex.com for a list of approved installation contractors for either new or renovated projects.
2. The installer shall have been approved by the flooring system manufacturer in all phases of surface preparation and application of the product specified. The specific contractor will be formally accredited as a "Tier One Strategic Account- Restaurant Installer". A letter stating these credentials shall be provided by the installation contractor.

C. Delivery, Storage and Handling:
1. Deliver material to job in clean, clearly labeled containers and inspect prior to start of job.
2. Store material in a dry enclosed area, out of direct sunlight protected by the elements. Keep temperature of storage area between 60F and 85F, in accordance with the Manufacturer's recommendations and relevant health and safety regulations.

D. Environmental Requirements:
1. Refer to Technical Department for application of Elast-O-Coat / Poly-Crete MDB before 28 days of new concrete installation.
2. Verify that substrate is properly equipped with vapor barrier and perimeter drains.
3. Verify supply of adequate utilities including electric, water, heat, air conditioning (between 60 F and 85 F) and lighting of no less than 80 ft. candles measured at floor surface.
4. Free area of other trades during and for a period of 24 hours after floor installation.
5. Protect finished floor from damage by subsequent trades.

E. Warranty:
1. Submit a one-year warranty against defects in material and workmanship upon substantial completion of installation.
2. Flood test: Elast-O-Coat membrane is warranted to comply with a 1 " deep X 24 hour flood test providing that the installation procedures have been followed and the prerequisite 24 hour cure time (@70 F) has been given to the Elast-O-Coat membrane prior to the start of the flood test.
3. Seismic activity may result in cracking of the concrete floor and subsequent layers of Poly-Crete kitchen material. If the concrete movement exceeds the 150% flexural strength of the Elast-O-Coat membrane a perforation or crack in the membrane may occur. Any seismic activity within a reasonable area of the flooring installation should always be followed up with a test to ensure continued integrity of the flooring system.

2.1 Products

System Materials:
a. Membrane: 20 mils minimum, Dur-A-Flex, Inc, Elast-O-Coat resin and hardener.
b. Bond coat: 8 mils minimum, Dur-A-Flex, Inc, Elast-O-Coat resin and hardener.
c. Broadcast: F60 sand aggregate shall be broadcast (to excess) into the surface of wet membrane. Allow a minimum of 24 hours to cure
d. Base coat of Poly-Crete MD at 3/16 " thick
e. Broadcast: F60 sand aggregate to excess
f. Topcoat: Dur-A-Flex, Inc. Accelera, resin, and hardener.

A. Product Description

1. Membrane
a.) The membrane shall consist of a liquid resin and hardener that is mixed at the ratio of 2 parts resin to 1 part hardener per the manufacturer's instructions.
b.) The membrane shall be applied by 3/16 " notched squeegee and back rolled at the rate of 80 SF/gal to yield a dry film thickness of 20 mils.
c.) The broadcast coat shall be applied by 1/8" notched squeegee and back rolled at the rate of 200 SF/gal to yield a dry film thickness of 8 mils. A broadcast of F60 size clean, dry aggregate is broadcast to excess into the 8 mils of wet Elast-O-Coat. Allow to dry, then sweep and vacuum any excess F60 sand from the surface of the Elast-O-Coat. Allow to cure for 24 hours (@ 70 F) before proceeding with base layer of Poly-Crete MDB.
d.) Poly-Crete MDB multiple component, self-leveling system with Accelera topcoat as manufactured as supplied by Dur-A-Flex, Inc. Tel: 1-800-253-3539.

2. Cove Base * For applications below 80 degrees slab temperature * Use Poly-Crete WR to form and design cove bases. Poly-Crete WR will set up quickly if working temperature reach top end of application temperature limits. ** For applications above 80 degrees slab temperature – switch from Poly-Crete WR to an epoxy cove system using F60 aggregate and Glaze 4 Cove Rez with Water Clear Hardener. Surface of cove base to receive topcoat of Accelera as manufactured and supplied by Dur-A-Flex, Inc. 1-800-253-3539 (First coat is considered a grout coat, Second coat will be applied in such a way to provide a smooth, easy to clean cove base)

Product Requirements	
Membrane	Elast-O-Coat
1. Percent Solids	100 %
2. VOC	4.34 g/L
3. Elongation, ASTMD 412	150 %
4. Tensile Strength, ASTM D 412	2,400 psi
Base Coat	Poly-Crete MDB:
1. Percent Reactive	100 %
2. VOC	0 g/L
3. Bond Strength to Concrete ASTM D 4541	400 psi, substrates fails
4. Compressive Strength, ASTM C 579	7,400 psi
5. Tensile Strength, ASTM D 638	1,800 psi
6. Impact Resistance @ 125 mils, MIL D-3134, No visible damage or deterioration	>160 inch lbs
Primer, Broadcasts and Topcoat	ACCELERA
1. Percent Solids	100 %
2. VOC	0 g/L
3. Bond Strength to Concrete ASTM D 4541	400 psi, substrates fails
4. Hardness, Shore D ASTM D2240	70
5. Compressive Strength, ASTM C579	18,000 psi
6. Tensile Strength, ASTM D638	2,600 psi
7. Abrasion Resistance, ASTM D4060 C-17 Wheel, 1,000 gm load, 1,000 cycles	27 mg loss
8. Potlife @ 70 F	7 – 10 minutes
9. Gloss (ASTM D523) 60°	90
10. Coefficient of Friction (ASTM D2047)	>0.6

Product Mixing:
1. Mix on site with manufacturer supplied pre-measure kits and approved mixing equipment to ensure a timely, accurate mix ratio and minimize waste.

3.1 Execution

A. Preparation:
1. Perform anhydrous calcium chloride test ASTM F 1869-98. Application will proceed only when the vapor/moisture emission rates from the slab is less than and not higher than 3 lbs/1,000 sf/24hrs. Or perform relative humidity test using is situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.
2. Create a surface profile having a minimum profile of CSP 3-4 as described by the International Concrete Repair Institute with a steel shot blast machine, scarifier or dust-free diamond grinders.
3. Verify that the surface is dry and perfectly clean, free of all, dust, preparation debris, oil, grease, detergent film, sealer and/or curing compounds.

B. Installation:
1. Application may proceed only while air, material and substrate temperatures are between 60 F and 85 F providing the substrate temperature is above the dew point.
2. Wherever a free edge will occur, including doorways, wall perimeters, expansion joints, columns, doorways, drains and equipment pads, a ¼ inch deep by 1/4 inch wide keyways shall be cut in.
3. Cracks and joints (non-moving) greater than 1/4 inch wide are to be chiseled or chipped-out and repaired per manufacturer 's recommendations.
4. Shallow Fill and Patching: Use Dur-A-Flex, Inc. Elast-O-Coat with No-Sag 1 (up to ¼ inch).
5. Deep Fill and Sloping Material (over ¼ inch): Use Dur-A-Flex, Inc. Dur-A-Crete.
6. Stripe Coat a 8" wide area over the length of all repaired expansion joints and control joints with mixed Elast-O-Coat. Embed a strip (6 inch wide X length of the joint) of fiberglass in the stripe coat of Elast-O-Coat material. Apply a second coat of Elast-O-Coat to the surface of the fiberglass to allow it to saturate the woven fiberglass. Follow a similar procedure at the base of the walls with a stripe coat of Elast-O-Coat that extends 4 inches up the wall and 4 inches onto the floor (from the base of the wall) Cut a strip of Fiberglass (6 " wide X length of the wall) then fold the fiberglass lengthwise and embed the fiberglass strip into the wet Elast-O-Coat at the base of the wall. Note: The fiberglass will now extend 3" up the wall and 3" onto the floor and extend the length of the wall. Follow this procedure around the perimeter of the room.
7. Apply a flood coat of mixed Elast-O-Coat to the entire floor area at a spread rate of 80 SF/gal (20 mils thick). Use a flat squeegee to spread the Elast-O-Coat. Follow with a backroll using a 3/8 " nap roller to level the Elast-O-Coat material. Allow to cure 12 hours (@70 F)
8. Apply a second coat of mixed Elast-O-Coat to the entire floor area at a spread rate of 200 SF/gal (8 mils thick). Use a flat squeegee to spread the Elast-O-Coat. Follow with a backroll using a 3/8 " nap roller to level the Elast-O-Coat material. Allow to cure 12 hours (@70 F)
9. Wearing spikes shoes, apply a broadcast of F60 sand to excess to the wet surface. Allow to cure for 24 hours. Sweep and vacuum any loose F60 sand.
10. Prime lower wall area to accept cove base with Dur-A-Flex Glaze 4 Cove-Rez mixed with Glaze 4 Water-Clear hardener. Extend primer material to floor at least 2 inches out from the base of wall.
11. Install a 4 or 6 inch high integral cove base at perimeter wall prior to installing the flooring system.
12. Cove base to be created using Poly-Crete WR or Dur-A-Flex Cove Rez mixed with water clear hardener and Dur-A-Flex F60 aggregate. (Epoxy cove bases should only be considered when temperature is above 80 degrees F.
13. Install flooring system with F60 aggregate broadcast into the Poly-Crete MD at an approx. rate of 1 lb. per square foot. Aggregate should be broadcast to rejection. (Note: F60 should always be broadcast in a upwards motion to allow the sand to land softly on the surface of the wet Poly-Crete MD)
14. Allow floor to cure for at least 8 hours. Sweep and vacuum all loose F60 aggregate.
15. Using the edge of a steel trowel or a rub stone, remove any surface defects that may have been caused by broadcasting the F60 aggregate in a lateral direction.
16. Clean and vacuum floor a second time prior to the application of the Accelera top-coat.
17. Seal floor and coves with Accelera Topcoat at recommended spread rate.
18. Surface of cove base and floor to cove transition points must remain smooth and provide a resulting easy to clean surface. Maintain an average ¼" diameter cove base transition radius. Provide careful attention to details to prevent top-coat puddles or surface irregularities that could snag a cleaning mop or collect dirt/debris.

END OF SECTION

SECTION 09 7200
WALL COVERINGS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide data on wall covering and adhesive.

1.02 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the adhesive or wall covering product manufacturer.

B. Maintain these conditions 24 hours before, during, and after installation of adhesive and wall covering.

PART 2 PRODUCTS

2.01 WALL COVERINGS

A. General Requirements:
1. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84.

B. Wall Covering: As listed on drawings finish schedule..

C. Adhesive: Type recommended by wall covering manufacturer to suit application to substrate.

D. Substrate Primer and Sealer: Alkyd enamel type.

PART 3 EXECUTION

3.01 INSTALLATION

A. Apply adhesive and wall covering in accordance with manufacturer's instructions.

B. Use wall covering in roll number sequence.

C. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface.

D. Butt edges tightly.

E. Overlap adjacent panels as recommended by manufacturer.

F. Horizontal seams are not acceptable.

G. Remove excess adhesive while wet from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.

END OF SECTION

SECTION 09 9113
EXTERIOR PAINTING
BENJAMIN MOORE & CO.

PART 1 GENERAL

2.01 SECTION INCLUDES

A. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
2. Exposed surfaces of steel lintels and ledge angles.
3. Mechanical and Electrical:
a. On the roof and outdoors, paint equipment that is exposed to weather or to view, including factory-finished materials.

B. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Non-metallic roofing and flashing.
6. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.
7. Marble, granite, slate, and other natural stones.
8. Glass.
9. Concealed pipes, ducts, and conduits.

C. SUBMITTALS
1. Product Data: Provide complete list of products to be used, with the following information for each:
a. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
b. MPI product number (e.g. MPI #47).
c. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
2. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
a. Where sheen is specified, submit samples in only that sheen.
b. Where sheen is not specified, submit each color in each sheen available.

PART 2 PRODUCTS

3.01 MANUFACTURERS

A. Benjamin Moore & Co. NO SUBSTITUTIONS

3.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.

B. Volatile Organic Compound (VOC) Content:
1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

C. Colors: As indicated on drawings.

3.03 PAINT SYSTEMS - EXTERIOR

A. Paint E-OP - Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete, concrete masonry units, brick, primed wood, and primed metal.
1. Two topcoats and one coat primer.
a. Topcoat(s): Exterior Latex; MPI #10, 11, 15, 119, or 214. Benjamin Moore Regal Select Exterior High Build Flat 400, or Soft Gloss 403, or Low-Lustre 401
b. Primer: As recommended by topcoat manufacturer for specific substrate.

B. Paint WE-OP-3A - Wood, Opaque, Alkyd, 3 Coat:
1. One coat of alkyd primer sealer. Benjamin Moore Fresh Start Exterior Alkyd Primer 94
2. Semi-gloss: Two coats of Benjamin Moore Regal Select Exterior High Build Low-Lustre 401

C. Paint CE-OP-3A - Concrete/Masonry, Opaque, Alkyd, 3 Coat:
1. One coat of block filler. Benjamin Moore Ultra Spec Masonry High Build Block Filler 571
2. Flat: Two coats of Benjamin Moore Regal Select Exterior High Build Low-Lustre 401

D. Paint ME-OP-3A - Ferrous Metals, Unprimed, Alkyd, 3 Coat:
1. One coat of alkyd primer. Benjamin Moore Super Spec HP Alkyd Metal Primer OP06
2. Semi-gloss: Two coats of alkyd enamel. Benjamin Moore Super Spec HP Urethane Alkyd Enamel Gloss OP22

E. Paint MgE-OP-3A - Galvanized Metals, Alkyd, 3 Coat:
1. One coat galvanize primer. Benjamin Moore Ultra Spec HP D.T.M. Acrylic Primer HP04
2. Semi-gloss: Two coats of Benjamin Moore Ultra Spec HP D.T.M. Acrylic Enamel Low Lustre HP25

3.04 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by manufacturer of topcoats.
1. Anti-Corrosive Alkyd Primer for Metal; MPI #79. Benjamin Moore Super Spec HP Alkyd Metal Primer OP06
2. Alkyd Primer for Galvanized Metal. Benjamin Moore Ultra Spec HP D.T.M. Acrylic Primer HP04

PART 3 EXECUTION

4.01 INSTALLATION

A. EXAMINATION
1. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
a. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
b. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.

4.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. APPLICATION
1. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
2. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

END OF SECTION

SECTION 09 9123
INTERIOR PAINTING
BENJAMIN MOORE & CO.

PART 1 GENERAL

2.01 SECTION INCLUDES

A. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
2. Prime surfaces to receive wall coverings.
3. Mechanical and Electrical:
a. In finished areas, paint conduit, boxes, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
b. In finished areas, paint shop-primed items.
c. Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.
d. Paint dampers exposed behind louvers, grilles, and convector and baseboard cabinets to match face panels.

B. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
5. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, and lead items.
6. Floors, unless specifically indicated.
7. Glass.
8. Acoustical materials, unless specifically indicated.
9. Concealed pipes, ducts, and conduits.

C. SUBMITTALS
1. Product Data: Provide complete list of products to be used, with the following information for each:
a. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
b. MPI product number (e.g. MPI #47).
c. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
2. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
a. Where sheen is specified, submit samples in only that sheen.
b. Where sheen is not specified, submit each color in each sheen available.

PART 2 PRODUCTS

3.01 MANUFACTURERS

1. Benjamin Moore & Co. NO SUBSTITUTIONS
2. PAINTS AND FINISHES - GENERAL
a. Paints and Finishes: Ready mixed, unless intended to be a field-catalyzed paint.
1) Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2) Provide 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.
3) For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
4) Supply each paint material in quantity required to complete entire project's work from a single production run.
5) Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
1) Volatile Organic Compound (VOC) Content:
1) Provide paints and finishes that comply with the most stringent requirements specified in the following:
a) 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
b) Ozone Transport Commission (OTC) Model Rule, Architectural, Industrial, and Maintenance Coatings; www.otcair.org; specifically:
(1) Opaque, Flat: 50 g/L, maximum.
(2) Opaque, Nonflat: 150 g/L, maximum.
(3) Opaque, High Gloss: 250 g/L, maximum.
2) Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
c. Colors: As indicated on drawings.
1) Extend colors to surface edges; colors may change at any edge as directed by Architect.
2) In finished areas, finish pipes, conduit, and equipment the same color as the wall/ceiling they are mounted on/under.
3. PAINT SYSTEMS - INTERIOR
a. Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry units, brick, wood, plaster, uncoated steel, shop primed steel, galvanized steel, aluminum, and acoustical ceilings.
1) Two topcoats and one coat primer.
2) Topcoat(s): High Performance Architectural Interior Latex; MPI #138, 139, 140, or 141. Benjamin Moore Regal Select Waterborne Interior Eggshell 549, or Regal Select Waterborne Interior Pearl Finish 550, Regal Select Waterborne Interior Semi-Gloss 551
3) Topcoat Sheen:
(a) Eggshell: MPI gloss level 3; use this sheen at locations as noted on drawings.
(b) Satin: MPI gloss level 4; use this sheen for items subject to frequent touching by occupants, including door frames and railings.
(c) Semi-Gloss: MPI gloss level 5; use this sheen at locations as noted on drawings.
4) Primer: As recommended by topcoat manufacturer for specific substrate.
b. Paint I-OP-MD-DT - Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:
1) Two topcoats and one coat primer.
2) Topcoat(s): High Performance Architectural Interior Latex; MPI #138, 139, 140, or 141. Benjamin Moore Regal Select Waterborne Interior Eggshell 549, or Regal Select Waterborne Interior Pearl Finish 550, Regal Select Waterborne Interior Semi-Gloss 551
3) Topcoat Sheen:
(a) Eggshell: MPI gloss level 3; use this sheen at all locations. Benjamin Moore Regal Select Waterborne Interior Eggshell 549
4) Primer: As recommended by topcoat manufacturer for specific substrate. Benjamin Moore Fresh Start High-Hiding All Purpose Primer 46
c. Paint I-OP-DF - Dry Fall: Metals; exposed structure and overhead-mounted services , including shop primed steel deck, structural steel, metal fabrications, galvanized conduit, and galvanized piping.
1) One top coat.
2) Topcoat: Latex Dry Fall; MPI #118, 155, or 226. Benjamin Moore Dry Fall Flat 395, Eggshell 396, Semi-Gloss 397
3) Topcoat Sheen:
(a) Flat: MPI gloss level 1; use this sheen at all locations unless noted otherwise. Benjamin Moore Regal Select Waterborne Interior Flat 547
4) Primer: As recommended by topcoat manufacturer for specific substrate.
d. Paint WI-OP-3A - Wood, Opaque, Alkyd, 3 Coat:
1) One coat alkyd primer sealer. Benjamin Moore Fresh Start Undercoater Primer 32
2) Eggshell: Two coats of Benjamin Moore Regal Select Waterborne Interior Eggshell 549
e. Paint WI-OP-3L - Wood, Opaque, Latex, 3 Coat:
1) One coat of latex primer sealer. Benjamin Moore Fresh Start High Hiding All-Purpose Primer 046
2) Eggshell: Two coats of latex enamel. Benjamin Moore Regal Select Waterborne Interior Eggshell 549
f. Paint MI-OP-3A - Ferrous Metals, Unprimed, Alkyd, 3 Coat:
1) One coat of alkyd primer. Benjamin Moore Super Spec HP Alkyd Metal Primer OP06
2) Semi-gloss: Two coats of alkyd enamel. Benjamin Moore Super Spec HP Urethane Alkyd Gloss OP-22
g. Paint Mgl-OP-3A - Galvanized Metals, Alkyd, 3 Coat:
1) One coat galvanize primer. Benjamin Moore Ultra Spec HP D.T.M. Acrylic Primer HP04
2) Semi-gloss: Two coats of Benjamin Moore Ultra Spec HP D.T.M. Acrylic Enamel Semi-Gloss HP 29

PART 3 EXECUTION

4.01 INSTALLATION

1. EXAMINATION

B. EXAMINATION
1. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
a. Gypsum Wallboard: 12 percent.
b. Plaster and Stucco: 12 percent.
c. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
d. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

C. PREPARATION
1. Clean surfaces thoroughly and correct defects prior to application.
2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

D. APPLICATION
1. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
2. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

END OF SECTION

SECTION 10 1400
SIGNAGE

PART 2 PRODUCTS

1.01 SIGNAGE APPLICATIONS

A. Accessibility Compliance: Signs are required to comply with ADA Standards, ICC A117.1or local jurisdiction, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.

B. Room and Door Signs: Provide a sign for restrooms
1. Sign Type: Flat signs with applied character panel media as specified.
2. Provide "tactile" signage, with letters raised minimum 1/32 inch and Grade II braille.
3. Character Height: 1-1/2 inch.
4. Sign Height: 4 inches, unless otherwise indicated.
5. Rest Rooms: Identify with pictograms, the names "MEN" and "WOMEN",or "UNISEX" per plans and braille.

C. Emergency Evacuation Maps:
1. Allow for one map to be located at the main entrance/exit.
2. Map content to be provided by sweetgreen Construction Manager/Architect.

D. Other Dimensional Letter Signs: Wall-mounted.
1. Exterior: Allow for numbers and/or letters, 6 inches high, vinyl. Provide contrasting color of white or black. Letter placement per the Architect's drawings or as directed by Fire Marshal.

1.02 SIGN TYPES

A. Flat Signs: Signage media without frame.
1. Edges: Bevelled.
2. Corners: Radiused.
3. Wall Mounting of One-Sided Signs: Concealed screws.

B. Color and Font: Unless otherwise indicated:
1. Character Font Helvetica..
2. Character Case: Upper case only.
3. Background Color: As Scheduled.
4. Character Color: Contrasting color.

1.03 ACCESSORIES

A. Concealed Screws: Stainless steel, galvanized steel, chrome plated, or other non-corroding metal.

PART 3 EXECUTION

2.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install neatly, with horizontal edges level and per code/ADA requirements.

END OF SECTION

SECTION 10 2113.13
METAL TOILET COMPARTMENTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall, floor, and ceiling supports, door swings.

B. Product Data: Provide data on panel construction, hardware, and accessories.

PART 2 PRODUCTS

2.01 MATERIALS

A. Stainless Steel Sheet: ASTM A666, Type 304.

2.02 COMPONENTS

A. Doors, Panels, and Pilasters: Sheet steel faces, pressure bonded to sound deadening core, formed and closed edges; corners made with corner clips or mitered, welded, and ground smooth.

B. Door and Panel Dimensions:
1. Thickness: 1 inch.
2. Door Width: 24 inch.
3. Door Width for Handicapped Use: 36 inch .
4. Height: 58 inch.

C. Pilasters: 1-1/4 inch thick, of sizes required to suit compartment width and spacing.

D. Urinal Screens: Wall mounted with two panel brackets, and floor-to-ceiling vertical upright consisting of pilaster anchored to floor and ceiling.

2.03 ACCESSORIES

A. Pilaster Shoes: Formed chromed steel with polished finish, 3 inch high, concealing floor fastenings.

B. Head Rails: Hollow chrome-plated steel tube, 1 by 1-5/8 inch size, with anti-grip strips and cast socket wall brackets.

C. Brackets: Polished chrome-plated non-ferrous cast metal.

D. Attachments, Screws, and Bolts: Stainless steel , tamper proof type.

E. Hardware: Polished chrome plated non-ferrous cast metal:
1. Pivot hinges, gravity type, adjustable for door close positioning; two per door.
2. Thumb turn or sliding door latch with exterior emergency access feature.
3. Door strike and keeper with rubber bumper; mounted on pilaster in alignment with door latch.
4. Coat hook with rubber bumper; one per compartment, mounted on door.

2.04 FINISHING

A. Stainless Steel Compartments: No. 4 finish.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install partitions secure, rigid, plumb, and level in accordance with manufacturer's instructions.

B. Maintain 3/8 to 1/2 inch space between wall and panels and between wall and end pilasters.

3.02 TOLERANCES

A. Maximum Variation From True Position: 1/4 inch.

B. Maximum Variation From Plumb: 1/8 inch.

END OF SECTION

SECTION 10 2601
WALL AND CORNER GUARDS

PART 2 PRODUCTS

1.01 COMPONENTS

A. Corner Guards - Surface Mounted: Extruded one-piece unit without splices, installed with adhesive.
1. Material: Type 304 stainless steel, No. 4 finish.
2. Thickness: 18 gage, 0.05 inch.
3. Width of Wings: 1-1/2 inches.
4. Styles: Provide 90 degree corners and wall end protectors.

PART 3 EXECUTION

2.01 INSTALLATION

A. Install components in accordance with manufacturer's instructions, level and plumb, secured rigidly in position to wall framing members only.

B. Position corner guard above base material and run full height to ceiling or as shown on drawings.

END OF SECTION

sg
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LOS ANGELES, CALIFORNIA 90018

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SECTION 10 2800
TOILET ACCESSORIES
PART 2 PRODUCTS
1.01 MANUFACTURERS
A. Provide products of each category type by single manufacturer.
1.02 MATERIALS
A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
B. Keys: Provide 2 keys for each accessory to sweetgreen Construction Manager.
C. Stainless Steel Sheet: ASTM A666, Type 304.
D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.
E. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.
1.03 FINISHES
A. Stainless Steel: Satin finish, unless otherwise noted.
1.04 COMMERCIAL TOILET ACCESSORIES
A. Toilet Paper Dispenser: Single roll, recessed, stainless steel unit with pivot hinge, tumbler lock.
B. Soap Dispenser: Soap lather dispenser, wall-mounted, surface, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and window gauge refill indicator, tumbler lock.
C. Mirrors: Stainless steel framed, 1/4 inch thick annealed float glass; ASTM C1036.
1. Annealed Float Glass: Silvering, protective and physical characteristics in compliance with ASTM C1503.
2. Size: As indicated on drawings..
D. Seat Cover Dispenser: Stainless steel, surface-mounted, reloading by concealed opening at base, tumbler lock.
E. Grab Bars: Stainless steel, textured surface.
1. Standard Duty Grab Bars:
a. Push/Pull Point Load: 250 pound-force, minimum.
b. Dimensions: 1-1/4 inch outside diameter, minimum 0.05 inch wall thickness, exposed flange mounting, 1-1/2 inch clearance between wall and inside of grab bar.
c. Finish: Satin.
d. Length and Configuration: As indicated on drawings.
F. Sanitary Napkin Disposal Unit: Stainless steel, recessed, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle.
1.05 UNDER-LAVATORY PIPE AND SUPPLY COVERS
A. Under-Lavatory Pipe and Supply Covers:
1. Insulate exposed drainage piping, including hot, cold, and tempered water supplies under lavatories or sinks to comply with ADA Standards.
2. Exterior Surfaces: Smooth non-absorbent, non-abrasive surfaces.
3. Construction: 1/8 inch flexible PVC.
4. Color: White.
5. Fasteners: Reusable, snap-locking fasteners with no sharp or abrasive external surfaces.
1.06 ELECTRIC HAND/HAIR DRYERS
A. Electric Dryers: Traditional fan-in-case type, with blade style..
1. Operation: Automatic, sensor-operated on and off.
2. Mounting: Surface mounted.
3. Cover: Stainless steel with brushed finish.
a. Tamper-resistant screw attachment of cover to mounting plate.
1.07 DIAPER CHANGING STATIONS
A. Diaper Changing Station: Wall-mounted folding diaper changing station for use in commercial toilet facilities, meeting or exceeding ASTM F2285.
1. Material: Stainless steel.
2. Mounting: Recessed.
1.08 UTILITY ROOM ACCESSORIES
A. Mop and Broom Holder: 0.05 inch thick stainless steel, Type 304, hat-shaped channel.
1. Holders: Three spring-loaded rubber cam holders.
2. Length: 24 inches.
PART 3 EXECUTION
2.01 INSTALLATION
A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
B. Install plumb and level, securely and rigidly anchored to substrate.
C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
END OF SECTION

SECTION 10 4400
FIRE PROTECTION SPECIALTIES
PART 1 GENERAL
1.01 SUBMITTALS
A. Product Data: Provide extinguisher operational features and extinguisher ratings and classifications.
PART 2 PRODUCTS
2.01 FIRE EXTINGUISHERS
A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated.
B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
1. Cartridge Operated: Spun shell.
2. Class: A:B:C type.
3. Size: 10 pound.
4. Finish: Polished chrome.
5. Temperature range: Minus 65 degrees F to 120 degrees F.
2.02 ACCESSORIES
A. Extinguisher Brackets: Formed steel, chrome-plated.
PART 3 EXECUTION
3.01 INSTALLATION
A. Install in accordance with manufacturer's instructions and as directed by the Fire Marshal..
B. Secure rigidly in place.
END OF SECTION

SECTION 11 4001
CUSTOM FABRICATED FOODSERVICE EQUIPMENT
PART 1 GENERAL
1.01 SUBMITTALS
A. Shop Drawings: Submit floor plans, elevations, cross-sections, and construction details for fabricated units specified, including:
1. Layout and anchorage of equipment and accessories, including clearances for maintenance and operation and required electrical or plumbing connections.
2. Size, type, and location of equipment drain lines and floor drains.
1.02 WARRANTY
A. Correct defective Work within a one year period after Date of Substantial Completion.
PART 2 PRODUCTS
2.01 CUSTOM FABRICATED UNITS - GENERAL REQUIREMENTS
A. See drawings for dimensions and configurations; ensure proper fit by taking field measurements prior to fabrication.
B. Provide fully shop assembled units complying with SMACNA (KVS) and NSF 2, unless specifically indicated otherwise; all components of stainless steel unless otherwise indicated.
C. Counter, Table, and Sink Edges: Provide finished edge on all open sides; close open ends down to bottom edge of turn down; if not otherwise indicated provide bullnose edges.
1. Bullnose Edges: SMACNA Figure 2-3 Detail A; 2 inch turn down at 5/8 inch radius, returned at 60 degree angle to not closer than 3/4 inch to face of cabinet or case.
D. Back and End Splashes: Provide wherever tops abut walls or other vertical surfaces; close open ends from top to bottom of turned down top edge.
1. Two-45-Degree Back and End Splashes: 6 inches high, coved at 5/8 inch radius, turned back 1 inch at the top at 45 degree angle with 1 inch (25 mm) flat surface, turned down 1 inch.
E. Shelves: Stainless steel.
F. Casework Not Otherwise Specified: Stainless steel, 20 gage, 0.0359 inch thick.
G. Sneeze Guards: Fully tempered float glass mounted in stainless steel channel frames.
2.02 SERVING COUNTERS
A. Serving Counter Height:
1. Non-Self-Service: 34 inch.
2.03 FOOD PREPARATION
A. Vegetable Preparation Counter: Integral sinks and drainboards.
B. Preparation and Work Tables:
2.04 DISH AND TRAY WASHING
A. Design dishware washing units to accommodate trays and dish racks of standard dimensions:
B. Soiled Dish Table: Stainless steel table on legs; raised roll front edge.
1. Depth: 30 inches.
2. Height to Top: 36 inches.
3. Drainboard: One integral drainboard.
C. Clean Dish Table: One-piece seamless stainless steel with rolled edges.
1. Length: As indicated on drawings.
2. Depth: 30 inches.
3. Height to Top: 36 inches.
2.05 FABRICATION
A. Welding: Make all welded joints smooth, ductile, and watertight, without gaps, holes, or discoloration or marring of surface adjacent to welds.
1. Use welding processes and filler metal compatible with material being welded. Do not use carbon arc welding on surfaces that will be exposed to view in finished work.
2. Grind exposed welds flush with adjacent material; finish and polish to match adjacent surface. Avoid excessive heating of metal and metal discoloration. In grinding, use iron-free abrasives, wheels, and belts that have not been used on carbon-steel. Remove pits, runs, sputter, cracks, low spots, voids, buckles, and all other imperfections. Remove grain of rough grinding by several successively finer polishing until specified finish is attained.
PART 3 EXECUTION
3.01 ADJUSTING
A. Adjust new and existing equipment to ensure proper operation.
END OF SECTION

7/29/2025 4:50:56 PM

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-
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STAMP:

07/25/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE.,
SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	MN/SL/SN
CHECKED BY:	KG
PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	02/25/2025	BID SET
1	05/16/2025	IFC SET
2	05/27/2025	BULLETIN 01
3	07/25/2025	PERMIT AMENDMENT

SPECIFICATIONS

A-706

ELECTRICAL ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CT	CURRENT TRANSFORMER
CU	COPPER
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ELU	EMERGENCY LIGHTING UNIT
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
HOA	HANDS-OFF-AUTOMATIC SWITCH
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
PH	PHASE
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
RCPT	RECEPTACLE
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SS	STAINLESS STEEL
SWBD	SWITCHBOARD
TYP	TYPICAL
UC	UNDER COUNTER
V	VOLT
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

∠	ANGLE
@	AT
▲	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
C	CENTER LINE
P	PLATE

ELECTRICAL SYMBOL LEGEND

LIGHTING SYMBOLS

LIGHTING FIXTURES, TYPICAL,
(VARIOUS SYMBOLS)
FILLED CIRCLES INDICATE RECESSED.
OPEN CIRCLES INDICATE SURFACE-MOUNTED.
DIAGONAL LINE INDICATES LENSED.
OUTER DOTS INDICATE SUSPENDED.

LIGHTING FIXTURES, TYPICAL, ROUND
(VARIOUS SYMBOLS)
CENTER DOT INDICATES PENDANT.
DIAGONAL LINE INDICATES LENSED.
CHEVRON INDICATES WALL WASH.

WALL-MOUNTED FIXTURES, TYPICAL
(VARIOUS SYMBOLS)

STRIP FIXTURE

DIRECTIONAL LIGHT, TRACK LIGHT, FLOOD LIGHT

LINEAR LIGHT, TAPE LIGHT

EMERGENCY LIGHTING UNIT, WALL-MOUNTED,
INTEGRAL BATTERY

EXIT LIGHT, CEILING-MOUNTED. SHADING AND ARROWS
INDICATE FACES AND DIRECTIONAL CHEVRONS.

EXIT LIGHT, WALL-MOUNTED. SHADING AND ARROWS
INDICATE FACES AND DIRECTIONAL CHEVRONS.

EXIT/ELU COMBO

POLE/AREA LIGHTS

POST-TOP AREA LIGHT

BOLLARD LIGHT

DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL
CIRCUIT.

SOLID HATCH INDICATES LIGHT ON AN EMERGENCY
OR LIFE SAFETY CIRCUIT.

$ SINGLE-POLE SWITCH
$ TWO-POLE SWITCH
$ THREE-POLE SWITCH
SWITCH MODIFIERS:

3: 3-WAY	OS: OCCUPANCY SENSOR
4: 4-WAY	VS: VACANCY SENSOR
K: KEYED	AC: ABOVE-COUNTER
D: DIMMING	LV: LOW-VOLTAGE
T: TIMER	M: MOTOR-RATED

LIGHTING CONTRACTOR
LC LIGHTING CONTROL PANEL
OS OCCUPANCY SENSOR
DL DAYLIGHT HARVESTING SENSOR
PHOTO CELL

LIGHTING TAGS

B1 / a / P-42 — TOP VALUE: FIXTURE TYPE ID (UNDERLINED)
BOTTOM VALUE, LOWERCASE LETTER: SWITCH ID
BOTTOM VALUE, NUMBER(S): CIRCUIT NUMBER
BOTTOM VALUE, UPPERCASE LETTER(S): PANEL ID

ABSENCE OF A SWITCH DESIGNATION ON A LIGHTING FIXTURE INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. AN "X" IN PLACE OF THE SWITCH DESIGNATION INDICATES UNSWITCHED.

$ a SWITCH ID INDICATED BY A LOWERCASE LETTER. SWITCH IDS ARE UNIQUE PER SPACE. A SWITCH WITH AN ID "A" CONTROLS ALL DEVICES WITHIN THE SPACE IN WHICH IT IS LOCATED
OS aTAGGED WITH "A". A SWITCH WITHOUT A TAGGED ID CONTROLS ALL LIGHTING FIXTURES WITHIN A SPACE. ID TAGS MAY BE USED ON CONTROL DEVICES OTHER THAN SWITCHES, SUCH AS OCCUPANCY SENSORS OR CONTRACTORS.
a

SECURITY SYMBOLS

SECURITY CAMERA
PTZ: PAN/TILT/ZOOM
CR CARD READER
CR CARD READER WITH KEYPAD
CC CCTV CLOSED CIRCUIT TV OUTLET
DC DOOR CONTACT
ES ELECTRIC STRIKE
IC INTERCOM
ML MAGNETIC LOCK
RX REQUEST TO EXIT BUTTON
REX REQUEST TO EXIT SENSOR
MD MOTION DETECTOR
AVC SECURITY CONTROL UNIT
SCP: SECURITY CONTROL PANEL
SPS: SECURITY POWER SUPPLY UNIT

GROUNDING AND LIGHTNING PROTECTION SYMBOLS

GROUND ROD
GROUND ROD WITH TEST WELL
STATIC GROUND RECEPTACLE
LIGHTNING PROTECTION AIR TERMINAL
LIGHTNING PROTECTION
CONDUCTOR SPLICE

POWER SYMBOLS

WALL / CEILING / FLOOR

SIMPLEX RECEPTACLE
DUPLEX RECEPTACLE
QUADRUPLEX RECEPTACLE
SPECIAL RECEPTACLE, TYPE AS INDICATED
RECEPTACLE MODIFIERS:
##': HEIGHT AFF OC
AC: ABOVE COUNTER
GFI: GROUND-FAULT CIRCUIT INTERRUPTER
WP: WEATHERPROOF IN-USE COVER

HALF SHADING INDICATES SPLIT (TYPICALLY SWITCHED)

OUTSIDE SHADING INDICATES EMERGENCY CIRCUIT

CENTER SHADING INDICATES ISOLATED GROUND

$ SINGLE-POLE SWITCH
$ TWO-POLE SWITCH
$ THREE-POLE SWITCH
SWITCH MODIFIERS:
K: KEYED
T: TIMER
AC: ABOVE-COUNTER
M: MOTOR-RATED

MULTI-OUTLET ASSEMBLY; FILLED SQUARES INDICATE 120V OUTLET OPEN SQUARES INDICATE WITH USB

CORD REEL, DEVICE VARIES

DROP CORD, DEVICE VARIES

J JUNCTION BOX
J FLOOR BOX, SEE SCHEDULE FOR TYPE

EMERGENCY POWER OFF
DO DOOR OPENER PUSH PLATE
M POWER METER
SAFETY SWITCH, FUSED
SAFETY SWITCH, UNFUSED
MOTOR STARTER
COMBINATION STARTER/DISCONNECT
CONTRACTOR

POWER DEVICE AND EQUIPMENT TAGS

ELECTRICAL DEVICE TAGS: UPPERCASE LETTER(S) INDICATES PANEL ID AND CIRCUIT NUMBER. LOWERCASE LETTER INDICATES DESIGNATION OF CONTROLLING SWITCH (WHERE APPLICABLE).

EQUIPMENT TAGS: EQUIPMENT ID IS INDICATED BY AN UNDERLINED TAG ADJACENT TO THE EQUIPMENT. SEE THE EQUIPMENT CONNECTION SCHEDULE FOR DESCRIPTION, ELECTRICAL REQUIREMENTS, AND PANEL AND CIRCUIT NUMBER. SYMBOLS/GRAPHIC APPEARANCE OF EQUIPMENT VARIES.

TELECOM SYMBOLS

WALL / CEILING / FLOOR

DATA OUTLET
TELEPHONE OUTLET
DATA/TELEPHONE OUTLET
OUTLET MODIFIERS:
##': HEIGHT AFF OC
AC: ABOVE COUNTER
WIRELESS ACCESS POINT
TV TV OUTLET

POWER DISTRIBUTION EQUIPMENT

SB1(S)
MDP(A)
HP1A(B)
LP1A(C)

HATCHED FILL INDICATES DISTRIBUTION PANEL OR SWITCHBOARD.
SOLID FILL INDICATES BRANCH PANEL OR LOAD CENTER.
DASHED BOX INDICATES CODE-REQUIRED CLEARANCE (WIDTH AND DEPTH).
DOOR INDICATES FRONT OF RECESSED PANEL.

T1 TRANSFORMER: TYPICALLY TRANSFORMER NAMES BEGIN WITH OR CONTAIN THE LETTER "T". SEE SINGLE-LINE DIAGRAM FOR DESCRIPTION AND REQUIREMENTS.

GENERAL PLAN SYMBOLS

\# PLAN REVISION NUMBER

/ E# — DETAIL NUMBER ON SHEET; SHEET NUMBER WHERE DETAIL IS PLACED

(#) KEYNOTE SYMBOL

CONTINUATION SYMBOL

POINT WHERE NEW CONNECTS TO EXISTING

ROOM / 001 — ROOM NAME / NUMBER

AREA BEING DEMOLISHED

AREA NOT IN CONTRACT

ELECTRICAL GENERAL NOTES

A. PROJECT DESIGN BASED ON 2020 NEC.

B. REFER TO THE APPROPRIATE DOCUMENTS FOR THE EXACT LOCATION AND REQUIREMENTS OF EQUIPMENT INSTALLED BY OTHERS REQUIRING ELECTRICAL CONNECTIONS.

C. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL & INTERIOR DESIGN ELEVATIONS AND DETAILS. THESE DOCUMENTS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.

D. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

E. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
   A. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
   B. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
   C. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
      - WHERE OUTLETS ARE INSTALLED WITHIN 1 OR 2 HOUR RATED GYPSUM WALL ASSEMBLIES WITH WOOD OR METAL STUDS, ON OPPOSITE SIDES OF A WALL LESS THAN 24" APART, OR WHERE MORE THAN (5) OUTLET BOXES ARE INSTALLED PER 100 SQUARE FEET OF A WALL SURFACE ON THE SAME SIDE (BOXES SHALL NOT BE INSTALLED BACK TO BACK) A FIRESTOPPING PUTTY PACK MAY BE USED. HILTI CP 617 OR APPROVED EQUAL

F. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.

G. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

H. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INCLUDED IN ALL RACEWAYS.

I. WALL SWITCHES CONTROLLING LIGHTING SHALL CONTAIN A NEUTRAL IN ADDITION TO AN EQUIPMENT GROUNDING CONDUCTOR.

J. ALL FACEPLATES FOR OUTLETS AND SWITCHES SHALL MATCH WALL COLOR. COORDINATE WITH ARCHITECT FOR EXACT COLOR SPECIFICATION.

K. A SEPARATE NEUTRAL CONDUCTOR SHALL BE ROUTED FOR ALL CIRCUITS WITH AFCI PROTECTION. THESE CIRCUITS SHALL NOT SHARE A NEUTRAL CONDUCTOR.

L. ADDITIONAL OWNER DEVICE MOUNTING REQUIREMENTS.
   A. THERMOSTAT: 48" MAX A.F.F. TO HIGHEST OPERABLE PART.
   B. INTERCOM: 48" MAX A.F.F. TO HIGHEST OPERABLE PART.
   C. LIGHT SWITCHES: 48" MAX A.F.F. TO HIGHEST OPERABLE PART IN 'ON' POSITION.
   D. WALL RECEPTACLES:
      - 15" MIN A.F.F. TO CENTERLINE OF LOWEST RECEPTACLE (OR 18" MIN TO CENTERLINE OF BOX).
      - 48" MAX A.F.F. TO CENTERLINE OF HIGHEST RECEPTACLE.
   E. BATHROOM RECEPTACLES (MARKED WITH AN 'AC'):
      - 44" MAX A.F.F. TO CENTERLINE OF HIGHEST RECEPTACLE.
      - 10" MAX FROM LEADING EDGE OF VANITY COUNTER IF LOCATED ON SIDE WALL.
   F. KITCHEN COUNTER RECEPTACLES (MARKED WITH AN 'AC'):
      - 46" MAX A.F.F. TO CENTERLINE OF HIGHEST RECEPTACLE.
      - 12" MIN FROM ANY OBSTRUCTION (INCLUDING REFRIGERATOR).
      - 36" MIN FROM CORNERS.
      - 46" MAX A.F.F. TO 'ON' POSITION OF REDUNDANT CONTROLS FOR RANGE HOOD.
      - 24" MAX DEPTH BETWEEN LEADING EDGE OF COUNTERTOP AND RECEPTACLES/SWITCHES LOCATED IN KITCHEN BACKSPLASH WALL IN COMMON AREA KITCHENETTES.
      - AT ISLANDS, MOUNT RECEPTACLES HORIZONTALLY AT 36" AFF TO CENTER OF DEVICE TO FIT IN THE 4" BACKSPLASH.

LOW VOLTAGE GENERAL NOTES

A. LOW VOLTAGE SYSTEM DESIGNED AND SPECIFIED BY OTHERS. REFER TO LOW VOLTAGE DOCUMENTS, OR REFER TO LOW VOLTAGE CONTRACTOR FOR ADDITIONAL INFORMATION.

ELECTRICAL SHEET INDEX

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E-500	ELECTRICAL LOW VOLTAGE PLAN

sg

sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

THESE DRAWINGS & SPECIFICATIONS ARE CONFIDENTIAL AND SHALL REMAIN THE SOLE PROPERTY OF SWEETGREEN CORPORATION. THEY SHALL NOT BE REPRODUCED (IN WHOLE OR IN PART), SHARED WITH THIRD PARTIES OR USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF SWEETGREEN CORPORATION. THESE DRAWINGS & SPECIFICATIONS ARE INTENDED TO EXPRESS DESIGN INTENT FOR A PROTOTYPICAL SWEETGREEN STORE (WHICH IS SUBJECT TO CHANGE AT ANY TIME) AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. NEITHER PARTY SHALL HAVE ANY OBLIGATION NOR LIABILITY TO THE OTHER (EXCEPT AS STATED ABOVE) UNTIL A WRITTEN AGREEMENT IS FULLY EXECUTED.

ENGINEER OF RECORD:
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P.O. BOX 38 | DALTON, GA 30722

STAMP:
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 41016 MICHAEL CHRISTOPHER
COA:P-2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE.,
SUITE 123
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DRAWN BY:	HA
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

ELECTRICAL LEGEND, SYMBOLS, AND ABBREVIATIONS

E-001

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PART 1 GENERAL INSTRUCTIONS

1.1 GENERAL REQUIREMENTS
A. ALL REQUIREMENTS IN THE ARCHITECTURAL SPECIFICATIONS, ARCHITECTURAL GENERAL NOTES AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS APPLY TO THIS SECTION AND DIVISION. WHERE THE REQUIREMENTS OF THIS SECTION AND DIVISION EXCEED THOSE OF THE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL GENERAL NOTES, THIS SECTION AND DIVISION TAKE PRECEDENCE. BECOME THOROUGHLY FAMILIAR WITH ALL REQUIREMENTS THAT AFFECT THIS DIVISION, SECTION OR BOTH. WORK REQUIRED UNDER THIS DIVISION INCLUDES ALL MATERIAL, EQUIPMENT, APPLIANCES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE ELECTRICAL SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS, OR REASONABLY INFERRED TO BE NECESSARY TO FACILITATE OUR SYSTEM'S FUNCTIONALITY AS IMPLIED BY THE DESIGN AND THE EQUIPMENT SPECIFIED.
B. THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED. DRAWINGS ARE GRAPHIC REPRESENTATIONS OF THE WORK UPON WHICH THE CONTRACT IS BASED. THEY SHOW THE MATERIALS AND THEIR RELATIONSHIP TO ONE ANOTHER, INCLUDING SIZES, SHAPES, LOCATIONS, AND CONNECTIONS. THEY ALSO CONVEY THE SCOPE OF WORK, INDICATING THE INTENDED GENERAL ARRANGEMENT OF THE EQUIPMENT, FIXTURES, OUTLETS AND CIRCUITS WITHOUT SHOWING ALL OF THE EXACT DETAILS AS TO ELEVATIONS, OFFSETS, CONTROL LINES, AND OTHER INSTALLATION REQUIREMENTS. USE THE DRAWINGS AS A GUIDE WHEN LAYING OUT THE WORK AND TO VERIFY THAT MATERIALS AND EQUIPMENT WILL FIT INTO THE DESIGNATED SPACES AND WHICH, WHEN INSTALLED PER MANUFACTURERS' REQUIREMENTS, WILL ENSURE A COMPLETE, COORDINATED, SATISFACTORY AND PROPERLY OPERATING SYSTEM.
1. DRAWINGS ARE SCHEMATIC IN NATURE, SHOW THE VARIOUS COMPONENTS OF THE SYSTEMS APPROXIMATELY TO SCALE AND ATTEMPT TO INDICATE HOW THEY SHALL BE INTEGRATED WITH OTHER PARTS OF THE WORK. FIGURED DIMENSIONS TAKE PRECEDENCE TO SCALED DIMENSIONS. DETERMINE EXACT LOCATIONS BY JOB MEASUREMENTS, BY CHECKING THE REQUIREMENTS OF OTHER TRADES, AND BY REVIEWING ALL CONTRACT DOCUMENTS. CORRECT ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION, AT NO ADDITIONAL COST.
2. SPECIFICATIONS DEFINE THE QUALITATIVE REQUIREMENTS FOR PRODUCTS, MATERIALS, AND WORKMANSHIP UPON WHICH THE CONTRACT IS BASED.

1.2 DEFINITIONS
A. FURNISH: TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLING, INSTALLING, AND SIMILAR OPERATIONS.
B. INSTALL: TO PERFORM ALL OPERATIONS AT THE PROJECT SITE, INCLUDORN, BUT NOT LIMITED TO, AND AS REQUIRED: UNLOADING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, TESTING, COMMISSIONING, STARTING UP AND SIMILAR OPERATIONS, COMPLETE, AND READY FOR THE INTENDED USE.
C. PROVIDE: TO FURNISH AND INSTALL COMPLETE, AND READY FOR THE INTENDED USE.
D. FURNISHED BY OWNER (OR OWNER-FURNISHED) OR FURNISHED BY OTHERS: AN ITEM FURNISHED BY THE OWNER OR UNDER OTHER DIVISIONS OR CONTRACTS, AND INSTALLED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE, AND READY FOR THE INTENDED USE, INCLUDING ALL ITEMS AND SERVICES INCIDENTAL TO THE WORK NECESSARY FOR PROPER INSTALLATION AND OPERATION. INCLUDE THE INSTALLATION UNDER THE REQUIREMENTS OF THIS DIVISION.
E. ENGINEER: WHERE REFERENCED IN THIS DIVISION, "ENGINEER" IS THE ENGINEER OF RECORD AND THE DESIGN PROFESSIONAL FOR THE WORK UNDER THIS DIVISION, AND IS A CONSULTANT TO, AND AN AUTHORIZED REPRESENTATIVE OF, THE ARCHITECT, AS DEFINED IN THE GENERAL AND SUPPLEMENTARY CONDITIONS. WHEN USED IN THIS DIVISION, IT MEANS INCREASED INVOLVEMENT BY, AND OBLIGATIONS TO, THE ENGINEER, IN ADDITION TO INVOLVEMENT BY, AND OBLIGATIONS TO, THE "ARCHITECT".
F. AHJ: THE LOCAL CODE AND/OR INSPECTION AGENCY, AUTHORITY HAVING JURISDICTION OVER THE WORK.
G. NRTL: NATIONALLY RECOGNIZED TESTING LABORATORY, AS DEFINED AND LISTED BY OSHA IN 29 CFR 1910.7 (E.G., UL, ETL, CSA), AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.
H. THE TERMS "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED". "EQUIVALENT" OR "EQUAL" PRODUCTS SHALL BE LABELED, LISTED, CERTIFIED, OR ALL THREE, BY AN NRTL, AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

1.3 PRE-BID SITE VISIT
A. PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED OF CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

1.4 MATERIAL AND WORKMANSHIP
A. PROVIDE ALL MATERIAL AND EQUIPMENT NEW AND IN FIRST CLASS CONDITION. PROVIDE MARKINGS OR A NAMEPLATE FOR ALL MATERIAL AND EQUIPMENT IDENTIFYING THE MANUFACTURER AND PROVIDING SUFFICIENT REFERENCE TO ESTABLISH QUALITY, SIZE AND CAPACITY. ALL WORKMANSHIP SHALL BE OF THE FINEST POSSIBLE BY EXPERIENCED MECHANICS OF THE PROPER TRADE. IN GENERAL, PROVIDE THE FOLLOWING QUALITY GRADE(S) FOR ALL MATERIALS AND EQUIPMENT (LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTABLE).
B. COMMERCIAL SPECIFICATION GRADE.
C. PROVIDE ALL HOISTS, SCAFFOLDS, STAGING, RUNWAYS, TOOLS, MACHINERY AND EQUIPMENT REQUIRED FOR THE INSTALLATION AND PERFORMANCE OF THE ELECTRICAL WORK. STORE AND MAINTAIN MATERIAL AND EQUIPMENT IN CLEAN CONDITION, AND PROTECTED FROM WEATHER, MOISTURE, AND PHYSICAL DAMAGE.
D. FURNISH ONLY MATERIAL AND EQUIPMENT THAT ARE LISTED, LABELED, CERTIFIED, OR ALL THREE, BY A NATIONALLY RECOGNIZED TESTING LABORATORY, WHENEVER ANY LISTING OR LABELING EXISTS FOR THE TYPES OF MATERIAL AND EQUIPMENT SPECIFIED. AT A MINIMUM, GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 (LATEST EDITION), "STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION".

1.5 MANUFACTURERS
A. IN OTHER ARTICLES WHERE LISTS OF MANUFACTURERS ARE INTRODUCED, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE MANUFACTURERS SPECIFIED.
B. WHERE MANUFACTURERS ARE NOT LISTED, PROVIDE PRODUCTS SUBJECT TO COMPLIANCE WITH REQUIREMENTS FROM MANUFACTURERS THAT HAVE BEEN ACTIVELY INVOLVED IN MANUFACTURING THE SPECIFIED PRODUCT FOR NO LESS THAN 5 YEARS.

1.6 COORDINATION
A. COORDINATE ALL WORK WITH OTHER DIVISIONS AND TRADES SO THAT VARIOUS COMPONENTS OF THE ELECTRICAL SYSTEMS ARE INSTALLED AT THE PROPER TIME, FIT THE AVAILABLE SPACE, AND ALLOW PROPER SERVICE ACCESS TO ALL EQUIPMENT. REFER TO ALL DRAWINGS, INCLUDING, BUT NOT LIMITED TO, CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND PLUMBING, AND TO RELEVANT EQUIPMENT SUBMITTALS AND SHOP DRAWINGS TO DETERMINE THE EXTENT OF CLEAR SPACES. MAKE ALL OFFSETS REQUIRED TO CLEAR EQUIPMENT, BEAMS AND OTHER STRUCTURAL MEMBERS, AND TO FACILITATE CONCEALING RACEWAYS IN THE MANNER ANTICIPATED IN THE DESIGN. PROVIDE MATERIALS WITH TRIM THAT WILL FIT PROPERLY THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED.

1.7 ORDINANCE, CODES, AND CLIENT STANDARDS
A. COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, STATE AND LOCAL BUILDING CODES, AND ALL OTHER APPLICABLE CODES AND ORDINANCES FOR PERFORMANCE, WORKMANSHIP, EQUIPMENT, AND MATERIALS. ADDITIONALLY, COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTION OF SERVICES.
B. WHERE CONFLICTS BETWEEN VARIOUS CODES, ORDINANCES, RULES, AND REGULATIONS EXIST, COMPLY WITH THE MOST STRINGENT. WHEREVER REQUIREMENTS OF THESE SPECIFICATIONS, DRAWINGS, OR BOTH, EXCEED THOSE OF THE ABOVE ITEMS, THE REQUIREMENTS OF THESE SPECIFICATIONS, DRAWINGS, OR BOTH, SHALL GOVERN. CODE COMPLIANCE, AT A MINIMUM, IS MANDATORY. CONSTRUE NOTHING IN THESE CONSTRUCTION DOCUMENTS AS PERMITTING WORK NOT IN COMPLIANCE, AT A MINIMUM, WITH THESE CODES.
C. BRING ALL CONFLICTS OBSERVED BETWEEN CODES, ORDINANCES, RULES, REGULATIONS, REFERENCED STANDARDS, AND THESE DOCUMENTS TO THE ENGINEER'S ATTENTION FOR FINAL RESOLUTION. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE LAW
D. PROVIDE AND MAINTAIN ALL NECESSARY SIGNAL LIGHTS AND GUARDS FOR THE SAFETY OF THE PUBLIC. OBTAIN AND PAY FOR ALL PERMITS FOR WORK IN THIS DIVISION.

1.8 PROTECTION OF EQUIPMENT AND MATERIALS
A. STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE, IN ACCORDANCE WITH MANUFACTURERS' A. RECOMMENDATIONS. FOR MATERIALS AND EQUIPMENT SUSCEPTIBLE TO CHANGING WEATHER CONDITIONS, DAMPNESS, OR TEMPERATURE VARIATIONS, STORE INSIDE IN PROPERLY CONDITIONED SPACES. FOR MATERIALS AND EQUIPMENT NOT SUSCEPTIBLE TO THESE CONDITIONS, COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, AND CONTRACTOR SHALL FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND.
B. PLUG OR CAP OPEN ENDS OF CONDUITS WHILE STORED AND INSTALLED DURING CONSTRUCTION WHEN NOT IN USE, TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS.
C. RE-ESTABLISH SERVICE TO EXISTING EQUIPMENT THAT MAY HAVE BEEN INTERRUPTED DUE TO REMODELING.

1.9 SUBSTITUTIONS
A. INCLUDE IN THE BASE BID THE PRODUCTS SPECIFICALLY NAMED IN THESE SPECIFICATIONS OR ON THE DRAWINGS. SUBMIT, IN THE FORM OF A ALTERNATES, WITH THE BID, PRODUCTS OF ANY OTHER MANUFACTURERS FOR SIMILAR USE, PROVIDED THE DIFFERENCES IN COST, IF ANY, ARE INCLUDED FOR EACH PROPOSED ALTERNATE. PRIOR TO THE BID DATE, SUBSTITUTIONS WILL NOT BE CONSIDERED UNLESS SUBMITTED TO THE ARCHITECT, FOR ENGINEER'S REVIEW, AT LEAST TEN CALENDAR DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. INCLUDE THE NAME OF THE MATERIAL OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED AND A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE INCLUDING CUTSHEETS, PHOTOMETRIC DATA, AND ALL OTHER INFORMATION NECESSARY FOR AN EVALUATION FOR EACH SUCH REQUEST. PROVIDE FACTORY GENERATED POINT-BY-POINT CALCULATIONS FOR ALL EXTERIOR LIGHT FIXTURES (PHOTOMETRIC FILES SUPPLIED SO THE ENGINEER CAN GENERATE A POINT-BY-POINT DO NOT SUFFICE FOR THE POINT-BY-POINT CALCULATIONS). PROVIDE INTERIOR POINT-BY-POINT CALCULATIONS AT THE DISCRETION OF THE ENGINEER. SUBMIT A $100.00 REVIEW FEE TO THE ENGINEER WITH EACH SUCH POINT-BY-POINT CALCULATION FOR USE OF ELECTRONIC BASE FILES.
B. THE ENGINEER WILL HAVE THE FINAL AUTHORITY AS TO WHETHER THE PRODUCT IS AN ACCEPTABLE REPLACEMENT TO THE SPECIFIED ITEM. THE PROPOSED SUBSTITUTION MAY ALSO BE REJECTED BY THE ARCHITECT FOR AESTHETIC REASONS IF FELT NECESSARY OR DESIRABLE. IN B. THE EVENT THE PROPOSED SUBSTITUTIONS HEREIN DESCRIBED ARE REJECTED, FURNISH THE SPECIFIED ITEM.

1.10 SUBMITTALS
A. ASSEMBLE AND SUBMIT TO THE ARCHITECT, FOR ENGINEER'S REVIEW, MANUFACTURERS' PRODUCT LITERATURE FOR ALL MATERIAL AND ALL EQUIPMENT TO BE FURNISHED, INSTALLED, OR BOTH, UNDER THIS DIVISION, INCLUDING SHOP DRAWINGS, MANUFACTURERS' PRODUCT DATA AND PERFORMANCE SHEETS, SAMPLES, AND OTHER SUBMITTALS REQUIRED BY THIS DIVISION. PROVIDE THE NUMBER OF SUBMITTALS REQUIRED BY THE ARCHITECTURAL SPECIFICATIONS; HOWEVER, AT A MINIMUM, SUBMIT SIX (6) SETS, OR SUBMIT ELECTRONIC PDF'S, BEFORE SUBMITTING, VERIFY THAT ALL MATERIALS AND EQUIPMENT SUBMITTED ARE MUTUALLY COMPATIBLE AND SUITABLE FOR THE INTENDED USE, FIT THE AVAILABLE SPACES, AND ALLOW AMPLE AND CODE-COMPLIANT ROOM FOR ACCESS AND MAINTENANCE. SUBMITTALS SHALL CONTAIN THE FOLLOWING INFORMATION. SUBMITTALS NOT SO IDENTIFIED WILL BE RETURNED TO THE CONTRACTOR WITHOUT ACTION:
1. THE PROJECT NAME AND LOCATION (STREET ADDRESS, FLOOR/SUITE NUMBER, CITY AND STATE).
2. THE APPLICABLE SPECIFICATION SECTION AND PARAGRAPH.
3. THE SUBMITTAL DATE.
4. THE CONTRACTOR'S STAMP, WHICH SHALL CERTIFY THAT THE STAMPED DRAWINGS HAVE BEEN CHECKED BY THE CONTRACTOR, COMPLY WITH THE DRAWINGS AND SPECIFICATIONS, AND HAVE BEEN COORDINATED WITH OTHER TRADES.
5. BLANK PAGE FOR PLACEMENT OF ENGINEER'S REVIEW STAMP
6. TRANSMIT SUBMITTALS AS EARLY AS REQUIRED TO SUPPORT THE PROJECT SCHEDULE. ALLOW TWO WEEKS FOR ENGINEER REVIEW TIME, PLUS MAILING TIME, ALLOW AN ADDITIONAL TWO WEEKS FOR RE-SUBMITTALS, IF REQUIRED. TRANSMIT SUBMITTALS AS SOON AS POSSIBLE AFTER NOTICE TO PROCEED AND BEFORE CONSTRUCTION STARTS. THE ENGINEER'S SUBMITTAL REVIEWS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES; OR FOR OMITTING COMPONENTS OR FITTINGS; OR FOR NOT COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS.

1.11 ELECTRONIC DRAWINGS FILES
A. IN PREPARATION OF SHOP DRAWINGS, CONTRACTOR MAY, AT HIS OPTION, OBTAIN ELECTRONIC DRAWING FILES IN AUTOCAD DWG OR DXF FORMAT FROM THE ENGINEER FOR A NON-REFUNDABLE SHIPPING AND HANDLING FEE OF $200 FOR A DRAWING SET UP TO 12 SHEETS AND $15 PER SHEET FOR A DRAWING SET OF MORE THAN 12 SHEETS. CONTRACTOR SHALL CONTACT THE ENGINEER FOR THE WRITTEN AUTHORIZATION. CONTRACTOR SHALL INDICATE ON THE FORM THE DESIRED SHIPPING METHOD AND DRAWING FORMAT CONTRACTOR SHALL INCLUDE PAYMENT WITH THE SIGNED AUTHORIZATION FORM. THE SIGNED AUTHORIZATION FORM AND PAYMENT MUST BE RECEIVED BY THE ENGINEER BEFORE ANY ELECTRONIC FILES WILL BE SENT.

1.12 TRAINING
A. AT A TIME MUTUALLY AGREED UPON BETWEEN THE OWNER AND CONTRACTOR, TRAIN OWNER'S DESIGNATED PERSONNEL ON THE OPERATION AND MAINTENANCE OF THE EQUIPMENT PROVIDED FOR THIS PROJECT.
B. PROVIDE TRAINING TO INCLUDE BUT NOT BE LIMITED TO AN OVERVIEW OF THE SYSTEM AND/OR EQUIPMENT AS IT RELATES TO THE FACILITY AS A WHOLE; OPERATION AND MAINTENANCE PROCEDURES AND SCHEDULES RELATED TO STARTUP AND SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE AND APPROPRIATE OPERATOR INTERVENTION; AND REVIEW OF DATA INCLUDED IN THE OPERATION AND MAINTENANCE INSTRUCTIONS.
C. SCHEDULE TRAINING WITH OWNER WITH AT LEAST 30 DAYS IN ADVANCE NOTICE.

1.13 WARRANTIES
A. WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, INSTALLATION, PRODUCT DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.
B. ALSO WARRANT THE FOLLOWING ADDITIONAL ITEMS;
1. ALL RACEWAYS ARE FREE FROM OBSTRUCTIONS, HOLES, CRUSHING, OR BREAKS OF ANY NATURE.
2. ALL RACEWAY SEALS ARE EFFECTIVE.
3. THE ENTIRE ELECTRICAL SYSTEM IS FREE FROM ALL SHORT CIRCUITS AND UNWANTED OPEN CIRCUITS AND GROUNDS.
C. THE ABOVE WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.
D. PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.
E. AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING E. TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

1.14 MISCELLANEOUS REMODELING WORK
A. PROVIDE ALL DEMOLITION OF EXISTING ELECTRICAL SYSTEMS AND NEW ELECTRICAL SYSTEM MODIFICATIONS REQUIRED BECAUSE OF BUILDING REMODELING, AS NOTED ON THE DRAWINGS, OR NECESSARY FOR PROPER OPERATION AND NEW CONSTRUCTION. REMOVE ALL ABANDONED CABLES AND WIRING ABOVE ACCESSIBLE CEILINGS AND VENTILATION SHAFTS.
B. EXERCISE EXTREME CAUTION IN THE INSTALLATION OF THIS WORK TO AVOID AN ELECTRICAL SHOCK ACCIDENT. THE FACILITY IS EXISTING AND MAY REMAIN IN OPERATION DURING THIS WORK. COORDINATE ALL WORK SCHEDULES WITH THE BUILDING MANAGEMENT PRIOR TO DE-ENERGIZING ANY ELECTRICAL CIRCUITS TO AVOID CONFLICTS WITH ANY OTHER TENANT'S OPERATION. ALLOW 3 DAYS PRIOR CONFIRMED NOTIFICATION.
C. VERIFY THAT NEW AND EXISTING TO REMAIN INSTALLATIONS ARE CODE COMPLIANT, AND MAKE CORRECTIONS AS REQUIRED.
D. DEVELOP AND MAINTAIN A SET OF "RED-LINE AS-BUILT" DRAWINGS. THESE DRAWINGS SHALL BE MAINTAINED AT THE PROJECT CONSTRUCTION SITE AND AVAILABLE TO THE ENGINEER UPON REQUEST. THEY SHALL BE CURRENT AND SHALL REFLECT ALL ACTUAL ASPECTS OF THE ELECTRICAL INSTALLATION WHICH DEVIATED FROM THE PRESENT ELECTRICAL DESIGN DRAWINGS. THESE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 10 DAYS OF SUBSTANTIAL COMPLETION OF THE WORK AND MUST INCLUDE ALL PUNCH LIST ITEMS.
E. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY THE REMODELING. DO NOT LOAD CIRCUITS TO MORE THAN 80% OF ITS RATING.
F. PROVIDE UPDATED, TYPED DIRECTORY FOR EACH PANELBOARD BEING USED OR MODIFIED UNDER THIS CONTRACT. DESIGNATE NEW CIRCUITS AND SUITE BEING SERVED.
G. NO BX CABLE SHALL BE INSTALLED FOR THIS PROJECT.
H. FLEXIBLE STEEL CONDUIT SHALL BE USED TO WIRE ALL LIGHT FIXTURES AND EQUIPMENT CONNECTIONS REQUIRED FOR VIBRATION OR EASE OF MAINTENANCE IN LENGTHS FROM 18 INCHES TO 72 INCHES ONLY.
I. CONDUIT AND CABLE ABOVE CEILING SHALL BE SUPPORTED BY A UNISTRUT AND ALL-THREAD ROD TRAPEZE. EACH PIECE OF CONDUIT SHALL BE SECURED TO THE TRAPEZE WITH A CONDUIT STRAP. THE TRAPEZE SUPPORTS SHALL BE INSTALLED PER CODE PLUS A MINIMUM OF 12" ABOVE THE CEILING.
J. PRIOR TO BID, THE EXISTING LIGHTING INSTALLATION SHALL BE INSPECTED TO VERIFY COMPATIBILITY WITH EXPANSION AND DUAL SWITCHING. NO CHANGE ORDER SHALL BE ISSUED DURING CONSTRUCTION FOR CHANGES DUE TO INCOMPATIBILITY.
K. NO CHANGES SHALL BE MADE TO THE CIRCUITING SHOWN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD. CIRCUIT NUMBERS SHALL BE INDICATED ON EACH JUNCTION BOX.
L. AT THE TIME OF FINAL PUNCH LIST, (3) ELECTRICIANS SHALL BE PRESENT TO ASSIST IN THE REMOVAL OF PANEL COVERS, JUNCTION BOX COVERS, RECEPTACLES, SWITCHES, AND OTHER ELECTRICAL DEVICES.

(END OF PART 1)

PART 2 ELECTRICAL WORK

2.1 BUILDING OPERATION
A. COMPLY WITH THE SCHEDULE OF OPERATIONS AS OUTLINED IN THE ARCHITECTURAL SPECIFICATIONS OF THIS SPECIFICATION. BUILDING FACILITY SHALL BE MAINTAINED IN CONTINUOUS OPERATION. ACCOMPLISH WORK THAT REQUIRES INTERRUPTION OF BUILDING AND BUILDING TENANT OPERATIONS AT A TIME WHEN THE BUILDING IS NOT IN OPERATION, AND ONLY WITH WRITTEN APPROVAL OF BUILDING OWNER AND/OR AFFECTED TENANT(S). COORDINATE INTERRUPTION OF BUILDING OPERATION WITH THE OWNER AND/OR TENANT(S) A MINIMUM OF DAYS IN ADVANCE OF WORK

2.2 COINCIDENTAL DAMAGE
A. REPAIR ALL STREETS, SIDEWALKS, DRIVES, PAVING, WALLS, FLOORING, FINISHES, AND OTHER FACILITIES DAMAGED IN THE COURSE OF THIS WORK. REPAIR MATERIALS SHALL MATCH EXISTING CONSTRUCTION. ALL BACKFILLING AND REPAIRING SHALL MEET ALL REQUIREMENTS OF THE OWNER, CITY AND OTHERS HAVING JURISDICTION. REPAIR WORK SHALL BE FIRST CLASS UTILIZING THE BEST MATERIALS AND TRADESMEN TO PERFORM ALL NECESSARY REPAIR WORK. CONFORM TO ALL REQUIREMENTS OF DIVISION 2 OF THESE SPECIFICATIONS.

2.3 CUTTING AND PATCHING
A. FOLLOWING THE REQUIREMENTS IN DIVISION 1, CUT WALLS, FLOORS, CEILINGS, AND OTHER PORTIONS OF THE FACILITY AS REQUIRED TO PERFORM WORK UNDER THIS DIVISION. OBTAIN PERMISSION OF THE ARCHITECT, OWNER, AND OWNER'S DESIGNATED STRUCTURAL ENGINEER BEFORE DOING ANY CUTTING. CUT ALL HOLES AS SMALL AS POSSIBLE. PATCH WALLS, FLOORS, AND OTHER PORTIONS OF THE FACILITY AS REQUIRED BY WORK UNDER THIS DIVISION. ALL PATCHING SHALL BE FIRST CLASS AND SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION, INCLUDING FIRE RATINGS IF APPLICABLE. DO NOT CUT OR PENETRATE STRUCTURAL ELEMENTS.
B. BEFORE ANY NEW FLOOR CORES ARE MADE, PROVIDE A LETTER FROM THE BUILDING OWNERS STRUCTURAL ENGINEER APPROVING THE LOCATION OF EACH NEW FLOOR CORE. THE LETTER SHALL ADDRESS CORES FOR FOR CONDUIT AND POKE-THRUS. WHERE A LETTER IS NOT SUPPLIED TO THE ENGINEER AND ARCHITECT OF RECORD BEFORE ANY FLOOR CORES ARE MADE, THE CONTRACTOR ASSUMES ALL LIABILITY FOR ANY AND ALL ISSUES THAT MAY OR COULD ARISE FROM CORING THE FLOOR.

2.4 ROUGH-IN
A. COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH OTHER DIVISIONS. CONCEAL ALL RACEWAYS EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE INDICATED ON THE DRAWINGS.

2.5 SUPPORT SYSTEMS
A. STEEL SLOTTED SUPPORT SYSTEMS (SLOTTED CHANNEL): COMPLY WITH MFMA-3, FACTORY-FABRICATED COMPONENTS FOR FIELD ASSEMBLY; 12-GAUGE, 1-5/8-INCH BY 1-5/8-INCH; COOPER B-LINE, ERICO INTERNATIONAL CORPORATION, POWER-STRUT, THOMAS & BETTS CORPORATION, UNISTRUT.
B. FINISHES:
1. METALLIC COATINGS: HOT-DIP GALVANIZED AFTER FABRICATION AND APPLIED ACCORDING TO MFMA-3
2. NONMETALLIC COATINGS: MANUFACTURER'S STANDARD PVC, POLYURETHANE, OR POLYESTER COATING APPLIED ACCORDING TO MFMA-3.
3. PAINTED COATINGS: MANUFACTURER'S STANDARD PAINTED COATING APPLIED ACCORDING TO MFMA-3.
4. STAINLESS STEEL: TYPE 304, PER ASTM A240.
5. ALUMINUM (EXTRUDED): TYPE 6063-T6, PER ASTM B221.
C. FIELD FABRICATION:
1. WHERE FIELD CUTTING OF STANDARD LENGTHS OF CHANNEL ARE REQUIRED, MAKE CUTS STRAIGHT AND PERPENDICULAR TO MANUFACTURED SURFACES.
2. FOR FIELD-CUT OR DAMAGED SURFACES OF COATED CHANNELS, DRESS CUT ENDS, DAMAGED SURFACES, OR BOTH, WITH AN ABRASIVE MATERIAL (E.G., FILE, GRINDING STONE, OR SIMILAR) AND CLEANSER TO REMOVE OILS, RUST, SHARP EDGES AND SHARDS.
3. FOR CHANNEL WITH A FACTORY-APPLIED COATING, RE-FINISH CUT EDGES WITH A COATING COMPATIBLE WITH THE FACTORY FINISH AND AS RECOMMENDED BY THE MANUFACTURER (E.G., MANUFACTURER'S TOUCH-UP PAINT OR ZINC-RICH COLD-GALVANIZING COMPOUND, AS APPLICABLE).

2.6 PENETRATIONS
A. COORDINATE SLEEVE SELECTION AND APPLICATION WITH SELECTION AND APPLICATION OF FIRE-STOPPING MATERIALS. MAINTAIN FIRE AND UL RATING OF WALL AND FLOOR TYPE.
B. WALLS AND FLOORS:
1. SLEEVES FOR RACEWAYS AND CABLES:
2. STEEL PIPE SLEEVES: ASTM A 53/A 53M, TYPE E, GRADE B, SCHEDULE 40, GALVANIZED STEEL, PLAIN ENDS AND DRIP RINGS.
3. CAST-IRON PIPE SLEEVES: CAST OR FABRICATED "WALL PIPE," EQUIVALENT TO DUCTILE-IRON PRESSURE PIPE, WITH PLAIN ENDS AND INTEGRAL WATERSTOP, UNLESS OTHERWISE INDICATED.
4. SLEEVES FOR RECTANGULAR OPENINGS: GALVANIZED SHEET STEEL WITH MINIMUM 0.052-INCH THICKNESS AS INDICATED AND OF LENGTH TO SUIT APPLICATION.

2.7 FIRE STOPPING FLOOR AND WALL PENETRATIONS
A. FIRE RESISTANT PENETRATION SEALANTS: TWO PART, FOAMED IN PLACE, SILICONE SEALANT FORMULATED FOR USE IN THROUGH PENETRATION FIRE STOPPING AROUND CABLES, RACEWAYS, AND CABLE TRAY PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS. SEALANTS AND ACCESSORIES SHALL HAVE FIRE RESISTANCE RATINGS INDICATED, AS ESTABLISHED BY TESTING IDENTICAL ASSEMBLIES IN ACCORDANCE WITH ASTM E 814, BY UNDERWRITERS' LABORATORIES, INC., OR OTHER NRTL ACCEPTABLE TO AHJ.
B. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. "3M FIRE STOP FOAM #2001," 3M CORP.
2. "METACAULK 835+," RECTORSEAL.
3. "SPECSEAL PENSIL 200 SILICONE FOAM," SPECIFY TECHNOLOGY INC.
4. "FIRE STOP SYSTEM," UNITED STATES GYPSUM COMPANY.

2.8 ACCESS DOORS
A. PROVIDE ACCESS DOORS IN CEILINGS AND WALLS, WHERE INDICATED OR REQUIRED FOR ACCESS OR MAINTENANCE TO CONCEALED EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, AND ANCHOR STRAPS. MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION AND COLOR BEFORE ORDERING.

2.9 EQUIPMENT FURNISHED BY OTHERS
A. PROVIDE NECESSARY EQUIPMENT AND ACCESSORIES THAT ARE NOT PROVIDED BY THE EQUIPMENT SUPPLIER OR OWNER TO COMPLETE INSTALLATION OF EQUIPMENT FURNISHED BY OTHERS, IN LOCATIONS AS INDICATED ON THE DRAWINGS, SPECIFIED HEREIN, OR BOTH. EQUIPMENT AND ACCESSORIES NOT PROVIDED BY THE EQUIPMENT SUPPLIER MAY INCLUDE SUCH ITEMS AS FLEXIBLE CORDS AND PLUGS, AS REQUIRED FOR PROPER OPERATION OF THE COMPLETE SYSTEM, IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
B. MAINTAIN ALL CORRECT ROUGH-IN DIMENSIONS, AND VERIFY THEM WITH ARCHITECT, OWNER'S REPRESENTATI

H. INSTALL RACEWAYS TO REQUIREMENTS OF STRUCTURE AND TO REQUIREMENTS OF ALL OTHER WORK ON THE PROJECT. INSTALL RACEWAY TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, REINFORCING STEEL, AND OTHER IMMOVABLE OBSTACLES. INSTALL RACEWAYS SET IN FORMS FOR CONCRETE STRUCTURE IN SUCH A MANNER THAT INSTALLATION WILL NOT AFFECT THE STRENGTH OF THE STRUCTURE. EXCEPT WHERE APPROVED IN WRITING BY THE ENGINEER, INSTALL NO RACEWAY IN A SLAB-ON-GRADE. LOCATE RACEWAY IN GRANULAR FILL BELOW SLABS-ON-GRADE.

I. INSTALL RACEWAYS CONTINUOUS BETWEEN CONNECTIONS TO OUTLETS, BOXES AND CABINETS WITH A MINIMUM POSSIBLE NUMBER OF BENDS AND NOT MORE THAN THE EQUIVALENT OF FOUR 90-DEGREE BENDS BETWEEN CONNECTIONS. USE MANUFACTURED ELBOWS FOR ALL 45-DEGREE AND 90-DEGREE BENDS, UNLESS APPROVED BY THE ENGINEER IN ADVANCE. MAKE OTHER BENDS SMOOTH AND EVEN AND WITHOUT FLATTENING RACEWAY OR FLAKING GALVANIZING OR ENAMEL. RADII OF BENDS SHALL BE AS LONG AS POSSIBLE AND NEVER SHORTER THAN THE CORRESPONDING TRADE ELBOW. USE LONG RADIUS ELBOWS WHERE NECESSARY, INDICATED, OR BOTH.

J. SECURELY FASTEN RACEWAYS IN PLACE WITH APPROVED STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. ATTACH RACEWAY SUPPORTS TO THE BUILDING STRUCTURE. SUPPORT RACEWAYS FOR FEEDERS WITH TRAPEZE SUPPORTS MADE OF ALL THREAD ROD AND UNISTRUT, SPACED NOT OVER 10 FEET APART. SECURELY CLAMP VERTICAL FEEDER RACEWAYS TO STRUCTURAL STEEL MEMBERS ATTACHED TO STRUCTURE. INSTALL CABLE CLAMPS FOR SUPPORT OF VERTICAL FEEDERS WHERE REQUIRED. ADD RACEWAY SUPPORTS WITHIN 12 INCHES OF ALL BENDS, ON BOTH SIDES OF THE BENDS. DO NOT SUPPORT RACEWAYS FROM SUSPENDED CEILING COMPONENTS.

K. REAM RACEWAY ENDS, THOROUGHLY CLEAN RACEWAYS BEFORE INSTALLATION, AND KEEP CLEAN AFTER INSTALLATION. PLUG OR COVER OPENINGS AND BOXES AS REQUIRED TO KEEP RACEWAYS CLEAN DURING CONSTRUCTION AND FISH ALL RACEWAYS CLEAR OF OBSTRUCTIONS BEFORE PULLING CONDUCTORS WIRES. PROVIDE RACEWAYS OF AMPLE SIZE FOR PULLING OF WIRE AND NOT SMALLER THAN CODE REQUIREMENTS AND NOT LESS THAN 3/4-INCH IN SIZE, UNLESS OTHERWISE INDICATED ON DRAWINGS.

L. EMT UP TO 2", IMC OR RIGID GALVANIZED STEEL GREATER THAN 2". ONLY STEEL COMPRESSION FITTINGS SHALL BE USED. SET SCREW FITTINGS ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES. DO NOT RUN MORE THAN 6 CURRENT-CARRYING CONDUCTORS IN ANY ONE CONDUIT, UNLESS OTHERWISE NOTED. ALL CONDUITS SHALL CONTAIN A SEPARATE EQUIPMENT GROUND WIRE.

M. PROTECT ALL RACEWAY INSTALLATIONS AGAINST DAMAGE DURING CONSTRUCTION. REPAIR ALL RACEWAYS DAMAGED OR MOVED OUT OF LINE AFTER ROUGHING-IN TO MEET ENGINEER'S APPROVAL WITHOUT ADDITIONAL COST TO THE OWNER.

N. ALIGN AND INSTALL TRUE AND PLUMB ALL RACEWAY TERMINATION'S AT PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL EQUIPMENT AND JUNCTION BOXES.

O. INSTALL APPROVED EXPANSION/DEFLECTION FITTINGS WHERE RACEWAYS PASS THROUGH (IF EMBEDDED) OR ACROSS (IF EXPOSED) EXPANSION JOINTS.

P. INSTALL A PULL WIRE IN EACH EMPTY RACEWAY THAT IS LEFT FOR INSTALLATION OF CONDUCTORS OR CABLES UNDER OTHER DIVISIONS OR CONTRACTS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 24 INCHES OF SLACK AT EACH END OF PULL WIRE. INSTALL A PULL WIRE IN ALL RACEWAYS 1" OR GREATER IN SIZE THAT HAVE ROOM FOR ADDITIONAL WIRE TO BE ADDED.

Q. EFFECTIVELY SEAL RACEWAYS, BY INSTALLING A CONDUIT FITTING AT THE BOUNDARY OF THE TWO SPACES, AND FILLING IT WITH AN APPROVED PUABLE MATERIAL, AFTER CONDUCTORS OR CABLES HAVE BEEN INSTALLED AND TESTED, WHERE:
1. RACEWAYS PASS FROM NON-COOLED TO COOLED SPACES.
2. RACEWAYS TRANSITION FROM OUTSIDE A FACILITY OR ENCLOSURE TO INSIDE, WHETHER BURIED OR EXPOSED.

4.1.3 BUSHINGS AND LOCKNUTS

A. RIGIDLY TERMINATE CONDUITS ENTERING SHEET METAL ENCLOSURES TO THE ENCLOSURE WITH A PLASTIC BUSHING AND LOCKNUT ON THE INSIDE AND A LOCKNUT OR AN APPROVED HUB ON THE OUTSIDE. CONDUIT SHALL ENTER THE ENCLOSURE SQUARELY.

B. PROVIDE BUSHINGS AND LOCKNUTS MADE OF GALVANIZED MALLEABLE IRON WITH SHARP, CLEAN-CUT THREADS.

C. WHERE EMT ENTERS A BOX, PROVIDE APPROVED EMT COMPRESSION CONNECTORS. SET SCREW CONNECTORS ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES.

D. USE INSULATED, GROUNDING, OR COMBINATION, BUSHINGS WHEREVER CONNECTION IS SUBJECT TO VIBRATION OR MOISTURE, WHEN REQUIRED BY NFPA 70, OR BOTH. INSTALL PLASTIC BUSHINGS ON ALL EXISTING CONDUITS CONNECTORS.

4.1.4 CONDUCTORS AND CABLES

A. CONDUCTOR MATERIAL:
1. ANNEALED (SOFT) COPPER COMPLYING WITH ICEA S-95-658/NEMA WC70; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER; CONCENTRIC, COMPRESSED STRANDED FOR NO. 8 AWG AND LARGER.
2. CONDUCTOR INSULATION TYPES: 90-DEGREE C-RATED, TYPE THHN/THWN-2 OR XHHW-2 COMPLYING WITH ICEA S-95-658/NEMA WC70.
3. SIZES OF CONDUCTORS AND CABLES INDICATED OR SPECIFIED ARE IN AMERICAN WIRE GAGE (AWG - BROWN AND SHARPE).
4. UNLESS INDICATED OTHERWISE, SPECIAL PURPOSE CONDUCTORS AND CABLES, SUCH AS LOW VOLTAGE CONTROL AND SHIELDED INSTRUMENT WIRING, SHALL BE AS RECOMMENDED BY THE SYSTEM EQUIPMENT MANUFACTURER.

B. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS NO. 12 AWG AND LARGER: STRANDED, TYPE THHN-2 OR XHHW-2 INSULATION.

C. ALL BRANCH CIRCUIT WIRING: NOT SMALLER THAN NO. 12 AWG. IF NO CONDUCTOR SIZE IS INDICATED ON THE DRAWINGS FOR A BRANCH CIRCUIT, PROVIDE CONDUCTORS AND CONDUIT SIZED PER NFPA 70 AND BASED ON THE INDICATED BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE (OCPD) RATING AND NUMBER OF POLES. WHERE NO CIRCUIT SIZE (I.E., CONDUCTORS AND OCPD) IS INDICATED ON THE DRAWINGS FOR A BRANCH CIRCUIT, PROVIDE THREE NO. 12 AWG CONDUCTORS, IN 3/4-INCH RACEWAY, AND A 20A CIRCUIT BREAKER.

D. CONDUCTORS FIELD-INSTALLED WITHIN FLUORESCENT LIGHT FIXTURE CHANNELS: TYPE THHN.

E. CONTROL WIRING: STRANDED COPPER CONDUCTORS, 600V INSULATION, OF THE PROPER TYPE, SIZE AND NUMBER AS REQUIRED TO ACCOMPLISH SPECIFIED FUNCTION. MINIMUM SIZE: NO. 14 AWG, UNLESS NOTED OTHERWISE.

4.1.5 INSTALLATION OF CONDUCTORS AND CABLES

A. INSTALL ALL WIRING IN APPROVED RACEWAY AND ENCLOSURES, EXCEPT WHERE SPECIFIED OR INDICATED.

B. MC CABLE MAY BE INSTALLED FOR THIS PROJECT AS LONG AS ALL OF THE FOLLOWING INSTALLATION METHODS ARE ADHERED TO:
1. ALL MC CABLE ROUTED ABOVE CEILINGS ARE INSTALLED A MINIMUM OF 12" ABOVE THE CEILING.
2. MC CABLE MUST BE SUPPORTED PER THE NEC WITH SUPPORTS INDEPENDENT OF THE CEILING GRID OR CEILING TILES.
3. MAXIMUM SAG OF THE MC CABLE BETWEEN SUPPORTS IS 6".
4. NO MC CABLE MAY BE DIRECTLY CONNECTED TO ANY PANELBOARDS.
5. EACH WIRE IN AN MC CABLE THAT IS SPLICED INTO ANOTHER WIRE IN A JUNCTION BOX MUST BE LABELED WITH WIRE NUMBER MARKER TAPE THAT INDICATES THE CIRCUIT THE WIRES ARE CONNECTED TO.

C. SUPPORT ALL CONDUCTORS AND CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA 70, BY INSTALLING CABLE SUPPORTS OR PLUG-TYPE CONDUIT RISER SUPPORTS, OR WIRE-MESH SAFETY GRIPS.

D. INSTALL ALL CONDUCTORS AND CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR SPLICES. SPLICE OR TAP ONLY IN APPROVED BOXES AND ENCLOSURES WITH APPROVED SOLDERLESS CONNECTORS, OR CRIMP CONNECTORS AND TERMINAL BLOCKS FOR CONTROL WIRING, AND KEEP TO THE MINIMUM REQUIRED. INSULATE ALL SPLICES, TAPS, AND JOINTS AS REQUIRED BY CODES.

E. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS: DESIGNED FOR, PROPERLY SIZED FOR, AND UL LISTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS INVOLVED, AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.

F. WHERE WIRING IS INDICATED AS INSTALLED, BUT THE CONNECTION IS INDICATED "FUTURE" OR "BY OTHER DIVISION, TRADES, OR CONTRACTS", LEAVE A MINIMUM 3-FOOT "PIGTAIL" AT THE BOX, TAPE THE ENDS OF THE CONDUCTORS, AND COVER THE BOX. THE NUMBER OF CONDUCTORS IN A SPECIFIC RACEWAY "HOME RUN" IS INDICATED WITH CROSS LINES (TICK MARKS) ON EACH "CIRCUIT RUN" ON THE DRAWINGS. IN GENERAL, THE DIRECTION OF BRANCH CIRCUIT "HOME RUN" ROUTING IS INDICATED ON THE DRAWINGS, COMPLETE WITH CIRCUIT NUMBERS AND PANELBOARD DESIGNATION. CONTINUE ALL SUCH "HOME RUN" WIRING TO THE DESIGNATED PANELBOARD, AS THOUGH "CIRCUIT RUNS" WERE INDICATED IN THEIR ENTIRETY.

4.1.5 INSTALLATION OF CONDUCTORS AND CABLES

G. WHEN MULTIPLE HOME RUNS ARE COMBINED INTO A SINGLE RACEWAY SUCH THAT THE NUMBER OF CONDUCTORS EXCEEDS FOUR (CONDUCTOR COUNT IS MADE UP OF ANY COMBINATION OF PHASE AND NEUTRAL CONDUCTORS), THE FOLLOWING RESTRICTIONS APPLY, WHICH ARE IN ADDITION TO THOSE IN NFPA 70:
1. EMERGENCY POWER CIRCUITS - INCLUDES ALL CIRCUITS COVERED UNDER ARTICLES 700, 701 AND 702.
2. MAXIMUM OF 16 CONDUCTORS IN A SINGLE RACEWAY. FOR UP TO EIGHT CONDUCTORS IN A RACEWAY, MINIMUM RACEWAY SIZE: 3/4-INCH. FOR GREATER THAN EIGHT CONDUCTORS, MINIMUM RACEWAY SIZE: 1- INCH. DO NOT INSTALL ANY OTHER TYPE OF CIRCUIT IN THIS RACEWAY.
3. THE MINIMUM WIRE SIZE FOR ALL CONDUCTORS IN THIS RACEWAY: NO. 10 AWG.
4. ONLY 15A AND 20A BRANCH CIRCUIT HOMERUNS MAY BE COMBINED INTO ONE RACEWAY.
5. GFCI CIRCUITS:
A. DO NOT USE MULTI-CONDUCTOR CIRCUITS, WITH A SHARED NEUTRAL, FOR ANY GFCI CIRCUIT BREAKER OR RECEPTACLE CIRCUIT.

H. FOR BRANCH CIRCUITS FED FROM GFCI CIRCUIT BREAKERS, LIMIT THE ONE-WAY CONDUCTOR LENGTH TO 100 FEET BETWEEN THE PANELBOARD AND THE MOST REMOTE RECEPTACLE OR LOAD ON THE GFCI CIRCUIT.

I. WIRING SHALL HAVE INSULATION OF THE PROPER COLOR TO MATCH COLOR CODE SYSTEM IN THE TABLE BELOW. IN LARGER SIZES, WHERE PROPERLY COLORED INSULATION IS NOT AVAILABLE, USE VINYL PLASTIC ELECTRICAL TAPE OF THE APPROPRIATE COLOR AROUND EACH CONDUCTOR AT ALL TERMINATION POINTS, JUNCTION AND PULL BOXES.

REFERENCE TABLE 1 FOR SYSTEM VOLTAGE TABLE 1 (4-1-5-9)

SYSTEM VOLTAGE	CONDUCTOR TYPE	COLOR
120/240	PHASE A PHASE B NEUTRAL EQUIPMENT GROUND	BLACK RED WHITE GREEN
240Δ/120	PHASE A PHASE B (HIGH LEG) PHASE C NEUTRAL EQUIPMENT GROUND ISOLATED GROUND	BLACK ORANGE RED WHITE GREEN GN W/ YELLOW STRIPE
208Y/120	PHASE A PHASE B PHASE C NEUTRAL EQUIPMENT GROUND ISOLATED GROUND	BLACK RED BLUE WHITE GREEN GN W/ YELLOW STRIPE
480Y/277	PHASE A PHASE B PHASE C NEUTRAL EQUIPMENT GROUND	BROWN ORANGE YELLOW GRAY GREEN

J. PROPERLY IDENTIFY ALL TERMINAL BLOCKS AND WIRE TERMINALS FOR CONTROL WIRING WITH VINYL STICK-ON MARKERS OR EQUIVALENT. PROVIDE ENGINEER WITH A LIST OF PROPOSED IDENTIFYING NUMBERS FOR REVIEW PRIOR TO INSTALLING MARKERS.

K. PROVIDE AN EQUIPMENT-GROUNDING CONDUCTOR, OR BONDING JUMPER, AS APPLICABLE, IN ALL BRANCH CIRCUITS AND FEEDERS, SIZED IN ACCORDANCE WITH NFPA 70 TABLES 250.66 OR 250.122, AS APPLICABLE, UNLESS INDICATED AS LARGER ON THE DRAWINGS.

L. VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 2 PERCENT.

4.1.6 JUNCTION BOXES, PULL, BOXES, CABINETS, AND WIREWAYS

A. PROVIDE JUNCTION BOXES, PULL BOXES, CABINETS AND WIREWAYS WHEREVER NECESSARY FOR PROPER INSTALLATION OF VARIOUS ELECTRICAL SYSTEMS ACCORDING TO NFPA 70 AND WHERE INDICATED ON THE DRAWINGS. SIZE AS REQUIRED FOR THE SPECIFIC FUNCTION OR AS REQUIRED BY NFPA 70, WHICHEVER IS LARGER. CONSTRUCTION SHALL BE OF A NEMA DESIGN SUITABLE FOR THE ENVIRONMENT INSTALLED. INSTALL ENGRAVED NAMEPLATES ON ALL J-BOXES, PULL BOXES, CABINETS AND WIREWAYS THAT PROVIDE NAME OF CIRCUITS EITHER TERMINATED, SPLICED, OR PASSING THRU AND THE NAME OF THE PANELBOARD THE CIRCUITS ORIGINATE.

4.1.7 UTLET BOXES

A. ALL OUTLETS INCLUDING LIGHT FIXTURE, SWITCH, RECEPTACLE, AND SIMILAR OUTLETS: NATIONAL ELECTRICAL, APPLETON, STEEL CITY, RACO, OR APPROVED EQUAL, GALVANIZED STEEL KNOCKOUT BOXES, SUITABLE IN DESIGN TO THE PURPOSE THEY SERVE AND THE SPACE THEY OCCUPY, SIZE AS REQUIRED FOR THE SPECIFIC FUNCTION OR AS REQUIRED BY NFPA 70, WHICHEVER IS LARGER. SET ALL OUTLET BOXES IN WALLS, COLUMNS, FLOORS, OR CEILINGS SO THEY ARE FLUSH WITH THE FINISHED SURFACE, ACCURATELY SET, AND RIGIDLY SECURED IN POSITION. PROVIDE PLASTER RINGS, EXTENSION RINGS AND/OR MASONRY RINGS AS REQUIRED FOR FLUSH MOUNTING. PROVIDE APPROVED CAST OUTLET BOXES, WITH HUBS AND WEATHERPROOF COVERS, IN ALL AREAS SUBJECT TO DAMP, WET, OR HARSH CONDITIONS.

B. EACH OUTLET AND/OR FIXTURE SHALL BE PROVIDED WITH 4 INCH SQUARE DEEP OUTLET BOX WITH APPROPRIATE COVER AND WIRING TO SUIT FIELD CONDITIONS.

C. ELECTRICAL MATERIALS USED ON THIS PROJECT SHALL BE UL LISTED AND LABEL.

4.1.8 OUTLET LOCATIONS

A. COORDINATE LOCATIONS OF OUTLET BOXES. OUTLETS ARE ONLY APPROXIMATELY LOCATED ON THE SMALL SCALE DRAWINGS. USE GREAT CARE IN THE ACTUAL LOCATION BY CONSULTING THE VARIOUS LARGE SCALE DETAILED DRAWINGS USED BY OTHER DIVISION TRADES, AND BY SECURING DEFINITE LOCATIONS FROM THE ARCHITECT.

4.1.9 MOUNTING HEIGHTS

A. UNLESS OTHERWISE NOTED, INSTALL WIRING DEVICES AS INDICATED BELOW (NOTE: ALL DIMENSIONS ARE TO THE BOTTOM OF THE OUTLET BOX UNLESS OTHERWISE NOTED):
1. RECEPTACLES:
A. GENERAL
A. VERTICALLY WITH THE GROUND SLOT MOUNTED AT THE TOP: 16 INCHES ABOVE FINISHED FLOOR.
B. HORIZONTALLY, WITH NEUTRAL SLOT MOUNTED AT THE TOP: 16 INCHES ABOVE FINISHED FLOOR.
B. ABOVE COUNTERS
A. FOR 36-INCH HIGH COUNTER TOPS: 44 INCHES ABOVE FINISHED FLOOR, VERTICALLY.
B. FOR 34-INCH HIGH COUNTER TOPS: 40 INCHES ABOVE FINISHED FLOOR, VERTICALLY.
C. MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS AND JANITORS CLOSETS: 44 INCHES ABOVE FINISHED FLOOR, VERTICALLY.
D. WEATHERPROOF EXTERIOR RECEPTACLES: 24 INCHES ABOVE FINISHED GRADE OR ROOF, OR AS INDICATED ON DRAWINGS, VERTICALLY.
E. GFCI RECEPTACLES: SAME AS GENERAL RECEPTACLES.
F. ISOLATED GROUND RECEPTACLES: SAME AS GENERAL
G. CONCRETE BLOCK WALLS: DIMENSIONS ABOVE MAY BE ADJUSTED SLIGHTLY, AS REQUIRED TO COMPENSATE FOR VARIABLE JOINT DIMENSIONS, SUCH THAT BOTTOM OR TOP OF BOXES, AS APPLICABLE, ARE AT BLOCK JOINTS.

4.1.10 WIRING DEVICES

A. PROVIDE THE FOLLOWING WIRING DEVICES WHERE SHOWN ON DRAWINGS OR REQUIRED. MINOR CHANGES RELATIVE TO THE LOCATION OF ELECTRICAL EQUIPMENT MAY BE MADE TO COMPLY WITH STRUCTURAL AND BUILDING REQUIREMENTS AS DETERMINED IN THE COURSE OF CONSTRUCTION. PROVIDE ALL WIRING DEVICES OF THE SAME MANUFACTURER AND NOT MIXED ON THE PROJECT, TO THE MAXIMUM EXTENT POSSIBLE. PROVIDE COLOR OF TOGGLES AND RECEPTACLES AS REQUESTED BY THE ARCHITECT: REFER TO TABLE 2 SHOWING RECEPTACLES TABLE.

TABLE 2 (4-1-10)

TYPE OF DEVICE	HUBBELL	PASS & SEYMOUR	LEVITON	COOPER
SIMPLEX REC.	HBL-2161-I	26241-I	5891	5351
DUPLEX REC.	HBL-2162-I	5362WSR	5352	5352
GFCI REC.	GF5352	2091	6898/6598	XGF20
ISOLATED GROUND REC.	IG5362	IG6300	8300-IG	IG5362
QUAD/4-PLEX	HBL-420	420	21254	NA
CLOCK REC.	HBL-5235	S3733-SS (15A)	5361-CH	93632 (15A)
SINGLE POLE SWITCH	CS1221	PS 20 AC1	1221-2	2221
THREE-WAY SWITCH	CS1223	PS 20 AC3	1223-2	2223
FOUR-WAY SWITCH	CS1224	PS 20 AC4	1224-2	2224
PILOT LIGHT SWITCH	HBL-1221PL	PS20 AC1-RPL	1221-(7)PLR	2221PL
KEY SWITCH	HBL-1221L	PS20 AC1-L	1221-2L	2221L
WALL-BOX DIMMER (1.5KW), SP3W, INCAND	AS153	PS20 AC1-RPL	81500-3	NA
MOMENTARY SPDT, CENTER OFF SWITCH	HBL-1557	1251	1257	1995

4.1.11 SWITCH AND OUTLET COVER PLATES

A. SWITCH AND OUTLET PLATES: COLORED, SMOOTH NYLON; BY THE SAME MANUFACTURER AS THE WIRING DEVICES, WHERE EVER POSSIBLE. VERIFY SPECIFIED MATERIALS AND COLORS WITH ARCHITECT BEFORE INSTALLATION INSTALLATION. SWITCH PLATES IN UNFINISHED ROOMS AND SPACES: STAMPED STEEL, CADMIUM PLATED. INSTALL GROUPS OF SWITCHES UNDER ONE GANGED-PLATE, USUALLY HORIZONTALLY, OR, WHERE REQUIRED BY DETAILS, VERTICALLY. SET ALL COVER PLATES PLUMB, PARALLEL, AND FINISHED FLUSH WITH THE WALL.

4.1.12 WEATHERPROOF COVER PLATES

A. PROVIDE GFCI RECEPTACLES FOR DESIGNATED WEATHERPROOF RECEPTACLES, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

B. FOR UNATTENDED, WET LOCATIONS: IN-USE NEMA 3R, UL-LABELED PLATES MOLDED FROM A CLEAR HIGH IMPACT ULTRAVIOLET STABILIZED POLYCARBONATE MATERIAL FOR EASY VERIFICATION THAT CORDS ARE PLUGGED IN AND THAT THE GFCI IS FUNCTIONING.

C. COVER PLATES: BY THE SAME MANUFACTURER AS THE WIRING DEVICES; COMPLYING WITH NFPA 70 406.8 (A) OR (B) REQUIREMENTS FOR ATTENDED OR UNATTENDED USE AS APPLICABLE.

4.2 ELECTRICAL SERVICE AND GROUNDING

4.2.1 CONNECTION TO SERVING UTILITIES

A. PROVIDE RACEWAYS, TERMINATIONS, METERING PROVISIONS, AND MISCELLANEOUS EQUIPMENT, AS REQUIRED, FOR ELECTRICAL AND TELEPHONE SERVICES FOR CONNECTION BY THE SERVING UTILITY, IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND OF THE SERVING UTILITY INVOLVED. VERIFY ALL SERVICE TERMINATIONS AND CONNECTION POINTS IN THE FIELD AND WORK IN CONJUNCTION WITH THE UTILITY INVOLVED IN THE INSTALLATION OF ALL SERVICES. PROVIDE ALL MATERIALS AND EQUIPMENT REQUIRED FOR COMPLETE UTILITY CONNECTION BUT NOT FURNISHED BY THE SERVING UTILITY. NOTIFY THE UTILITY COMPANIES INVOLVED WITHIN TWO WEEKS AFTER NOTICE TO PROCEED, OF ALL REQUIRED INFORMATION NECESSARY FOR THE UTILITY TO SUPPLY THE PROJECT WITHOUT DELAY. PAY ALL CHARGES OF THE SERVING UTILITY FOR THE ELECTRICAL SERVICE(S).

4.2.2 GROUNDING

A. PERMANENTLY AND EFFECTIVELY GROUND AND BOND THE ELECTRICAL INSTALLATION IN A THOROUGH AND EFFICIENT MANNER, AND IN CONFORMANCE, AT A MINIMUM, WITH NFPA 70, OR THESE DOCUMENTS, WHERE THEY EXCEED CODE REQUIREMENTS. USE BARE OR INSULATED CONDUCTORS, AS SPECIFIED HEREIN, AND OTHER MATERIALS INDICATED ON THE DRAWINGS.

4.3 DISTRIBUTION AND CONTROL EQUIPMENT

4.3.1 LIGHTING AND APPLIANCE PANELBOARDS

A. PANELBOARDS: SQUARE D TYPE NQOD (FOR 240/208Y SERVICE) OR NF (FOR 480V SERVICE) OR APPROVED EQUAL BY SIEMENS, CUTLER HAMMER, OR ABB - GENERAL ELECTRIC, AS SCHEDULED ON THE DRAWINGS; COMPLETE WITH BOLT-ON THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKERS ASSEMBLED IN A DEAD-FRONT FINISHED CABINET CONTAINING A TYPEWRITTEN CARD DIRECTORY INDICATING EXACTLY WHAT EACH CIRCUIT BREAKER CONTROLS; FULLY-RATED OR SERIES-RATED AND WITH THE INTEGRATED SHORT CIRCUIT CURRENT RATINGS INDICATED ON THE DRAWINGS. PLUG-IN TYPE BREAKERS WILL NOT BE ACCEPTABLE. ALL TWO AND THREE POLE BREAKERS: COMMON TRIP TYPE. BREAKERS USED AS SWITCHES FOR 120V OR 277V LIGHTING CIRCUITS: APPROVED FOR THE PURPOSE AND MARKED "SWD". BREAKERS USED FOR THE PROTECTION OF HVAC AND REFRIGERATION EQUIPMENT: HACR TYPE. PANELBOARDS SHALL HAVE DOOR-IN-DOOR COVERS, TIN PLATED COPPER BUSES, AND FEED THRU LUGS.

4.3.2 CIRCUIT BREAKERS IN EXISTING PANELBOARDS

A. PROVIDE NEW CIRCUIT BREAKERS, FOR INSTALLATION IN EXISTING PANELBOARDS OF THE SAME MANUFACTURER, TYPE AND SHORT CIRCUIT CURRENT INTERRUPTING RATINGS AS THE EXISTING PANELBOARD CIRCUIT BREAKERS.

4.3.3 SERIES RATINGS ON PANELBOARDS

A. LABEL PANELBOARDS WITH A UL INTEGRATED SHORT CIRCUIT CURRENT RATING. WHEN SERIES RATINGS ARE APPLIED WITH INTEGRAL OR REMOTE UPSTREAM DEVICES, PROVIDE LABELS COMPLYING WITH NFPA 70 ARTICLES 240.86 AND 110.22. IN ADDITION TO THE WARNING LABEL INCLUDE, AT A MINIMUM, THE FOLLOWING CONDITIONS OF THE UL 67 SERIES RATINGS:
1. SIZE AND TYPE OF UPSTREAM DEVICE.
2. BRANCH DEVICES THAT CAN BE USED.
3. UL SERIES SHORT CIRCUIT CURRENT RATING.
4. WHEN THERE IS NOT ENOUGH ROOM IN THE EQUIPMENT TO SHOW ALL THE LEGITIMATE SERIES RATED COMBINATIONS, REFERENCE A BULLETIN SUPPLIED WITH THE PANELBOARD, PER UL 67.
5. SERIES RATINGS SHALL COVER ALL TRIP RATINGS OF INSTALLED FRAMES.

4.3.4 DISCONNECT (SAFETY) SWITCHES

A. DISCONNECT (SAFETY) SWITCHES: SQUARE D, SIEMENS, CUTLER HAMMER, OR ABB - GENERAL ELECTRIC FUSED OR NON-FUSED (AS INDICATED ON DRAWINGS OR REQUIRED) NEMA KS1, HEAVY DUTY, EXTERNALLY OPERATED, VISIBLE-BLADE SAFETY SWITCHES; NEMA ENCLOSURE TYPE INDICATED ON THE DRAWINGS OR SUITABLE FOR THE ENVIRONMENT IN WHICH INSTALLED. BASED ON FUSIBLE SWITCH AND FUSE SIZES INDICATED, INCLUDE CLASS R, J, OR L FUSE PROVISIONS AS APPLICABLE.

B. WHERE INDICATED, PROVIDE FUSIBLE SWITCHES PERMANENTLY LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, WITH INTEGRAL AND SEPARATE NEUTRAL AND GROUND ASSEMBLIES, SUITABLE FOR THE SIZES OF CONDUCTORS INDICATED. DO NOT DOUBLE-LUG ANY TERMINATIONS NOT SPECIFICALLY LISTED AS SUITABLE FOR MORE THAN ONE CONDUCTOR.

C. PROVIDE SWITCHES WHERE NOT FURNISHED WITH THE STARTING EQUIPMENT, AT ALL OTHER POINTS REQUIRED BY NFPA 70, AND WHERE INDICATED ON THE DRAWINGS.

4.3.5 FUSES

A. PROVIDE EACH CIRCUIT AND SET OF FUSE CLIPS THROUGHOUT THE WORK WITH BUSSMANN, FERRAZ SHAWMUT, OR LITTLEFUSE FUSES, SIZES AND TYPES AS REQUIRED OR INDICATED. ALL FUSES LARGER THAN 600A: UL CLASS L, SIMILAR TO TYPE KRP-C BUSSMANN LOW PEAK OR EQUAL. FUSES USED TO PROTECT MOTORS: UL CLASS RK5, BUSSMANN FUSETRON OR EQUAL. FUSES USED TO PROTECT ALL OTHER ELECTRICAL EQUIPMENT: UL CLASS RK1, DUAL ELEMENT, BUSSMAN LPS/LPN OR EQUAL. ALL FUSED DEVICES SHALL BE LABELED AS TO TYPE AND SIZE OF FUSE REQUIRED.

4.3.6 DRY-TYPE TRANSFORMERS

A. TRANSFORMERS: GENERAL PURPOSE, UL-LISTED/LABELED 150 DEGREES C TEMPERATURE RISE ABOVE 40 DEGREES C AMBIENT. INSULATING MATERIALS: EXCEED NEMA ST-020 STANDARDS, RATED FOR 220 DEGREES C, UL-COMPONENT RECOGNIZED INSULATION SYSTEM. PHASES, VOLTAGES, AND SIZES: AS INDICATED ON THE DRAWINGS. SOUND LEVEL: NOT EXCEEDING NEMA STANDARDS FOR THE SIZES INDICATED. FULL- CAPACITY PRIMARY TAPS: BELOW 25 KVA - MINIMUM OF TWO 5 PERCENT (2-); 25 KVA TO 300 KVA - MINIMUM OF SIX 2.5 PERCENT (2+, 4-); ABOVE 300 KVA - FOUR 2.5 PERCENT (2+, 2-). TRANSFORMER CORE AND COIL ASSEMBLIES: MOUNTED ON INTEGRAL VIBRATION-ABSORBING PADS. MAKE FINAL CONDUIT CONNECTIONS TO TRANSFORMERS WITH FLEXIBLE CONDUIT, WITH AT LEAST 6 INCHES OF SLACK IN ALL DIRECTIONS. TRANSFORMER ENCLOSURES: FULLY ENCLOSED (EXCEPT FOR VENTILATION OPENINGS), NEMA 2, DRIP-PROOF, FABRICATED OF HEAVY GAUGE SHEET STEEL CONSTRUCTION. WINDING SHALL BE MADE OF COPPER.

B. ENERGY-EFFICIENT TRANSFORMERS: COMPLYING WITH NEMA TP-1, WHEN TESTED IN ACCORDANCE WITH NEMA TP-2. PROVIDE ENERGY-EFFICIENT TRANSFORMERS WHEN REQUIRED BY LOCAL CODE.

C. MANUFACTURERS: SQUARE D, ABB - GENERAL ELECTRIC, ACME, SIEMENS.

4.4 LIGHT FIXTURES, LAMPS AND BALLASTS

4.4.1 LIGHT FIXTURE LOCATIONS

A. LIGHT FIXTURES SHOWN ON THE ELECTRICAL DRAWINGS REPRESENT GENERAL ARRANGEMENTS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR MORE EXACT LOCATIONS. COORDINATE LOCATION WITH ALL OTHER TRADES BEFORE INSTALLATION TO AVOID CONFLICTS. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH FINAL INSTALLED PIPING AND DUCTWORK LAYOUTS.

4.4.2 LIGHT FIXTURES

A. LIGHT FIXTURES FURNISHED BY OWNER WHERE INDICATED ON SCHEDULE. COMPLY WITH ALL NOTES AND SPECIFICATION AS INDICATED IN SCHEDULE. INSTALL AND PROVIDE AS NEEDED ALL LIGHT FIXTURES AS SCHEDULED ON DRAWINGS, INCLUDING ALL LAMPS, ALL NECESSARY ACCESSORIES, MATERIAL AND LABOR TO SECURELY HANG, CLEAN, AND MAKE LIGHT FIXTURES COMPLETELY READY FOR USE. LIGHT FIXTURE MODEL NUMBERS SCHEDULED ON THE DRAWINGS SHOW ONLY THE MANUFACTURER, GRADE AND STYLE OF LIGHT FIXTURES REQUIRED. PROVIDE: ALL HANGERS, SUPPORTS, AND MISCELLANEOUS HARDWARE REQUIRED TO INSTALL LIGHT FIXTURES; PROPER TRIM TO FIT EACH CEILING CONDITION ACTUALLY ENCOUNTERED; ADDITIONAL TIE WIRES CONNECTED TO STRUCTURE TO CONFORM TO SEISMIC REQUIREMENTS AND WHERE REQUIRED BY THE APPLICABLE BUILDING CODE.

B. ONLY THOSE FIXTURES LISTED IN THE LIGHT FIXTURE SCHEDULE, OR APPROVED IN ACCORDANCE WITH SUBSTITUTIONS OF THESE SPECIFICATIONS, WILL BE ACCEPTED UNLESS FIXTURE IS SUPPLIED

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC)
Project Type: Alteration

Construction Site:
1600 Central Ave
Charlotte, North Carolina 28205

Owner/Agent:
Sweetgreen
3101 W. Exposition Blvd.
Los Angeles, California 90018

Designer/Contractor:
Wolf Engineering
PO Box 38
Dalton, Georgia 30721

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-RESTROOM / CIRC (Common Space Types:Restrooms)	170	0.98	167
2-DINING AREA (Common Space Types:Dining Area - Cafeteria/Fast Food)	724	0.65	471
3-KITCHEN (Common Space Types:Food Preparation)	1272	1.21	1539
		Total Allowed Watts =	2176

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)
RESTROOM / CIRC (Common Space Types: Restrooms, 170 sq.ft.)				
LED: C1-W: RECESSED ROUND 4" DOWNLIGHT. IC: Other:	1	5	10	50
LED: WS4-W: LED WALL SCONCE WITH EMERGENCY : Other:	1	2	9	18
Track Lighting: Wattage based on current limiting device capacity	0	0	240	240
DINING AREA (Common Space Types: Dining Area - Cafeteria/Fast Food, 724 sq.ft.)				
LED: WS11: WALL MOUNTED TOPO SCONCE: Other:	1	3	7	21
LED: P2-W: FEATURE PENDANT LIGHTING - OPAL: Other:	1	3	15	45
LED: OP1-B: 4" DIAM, 8" HIGH CYLINDER MEDIU: Other:	1	13	10	130
KITCHEN (Common Space Types: Food Preparation, 1272 sq.ft.)				
LED: C1-W: RECESSED ROUND 4" DOWNLIGHT. IC: Other:	1	20	10	200
LED: F2: 2'X4' LED BACK-LIT, LAY-IN PANE: Other:	1	10	46	460
LED: RL1.1: SURFACE ADJUSTABLE LINEAR LED L: Other:	1	1	30	30
LED: H1: HOOD MOUNTED LED LIGHT: Other:	1	4	17	68
LED: RL1.3: SURFACE ADJUSTABLE LINEAR LED L: Other:	1	3	60	180
			Total Proposed Watts =	1442

Interior Lighting PASSES

Interior Lighting Compliance Statement

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

Eric Wolf, PE
Name - Title

Signature

07/29/2025
Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C102.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.2.3 [EL23][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3 [EL16][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primery sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18][3]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][3]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

9/9/2025 5:21:40 PM

sg

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3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:
WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:
NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER MICHAEL EWING
COA:P-2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

DRAWN BY:	HA
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

ENERGY COMPLIANCE FORM

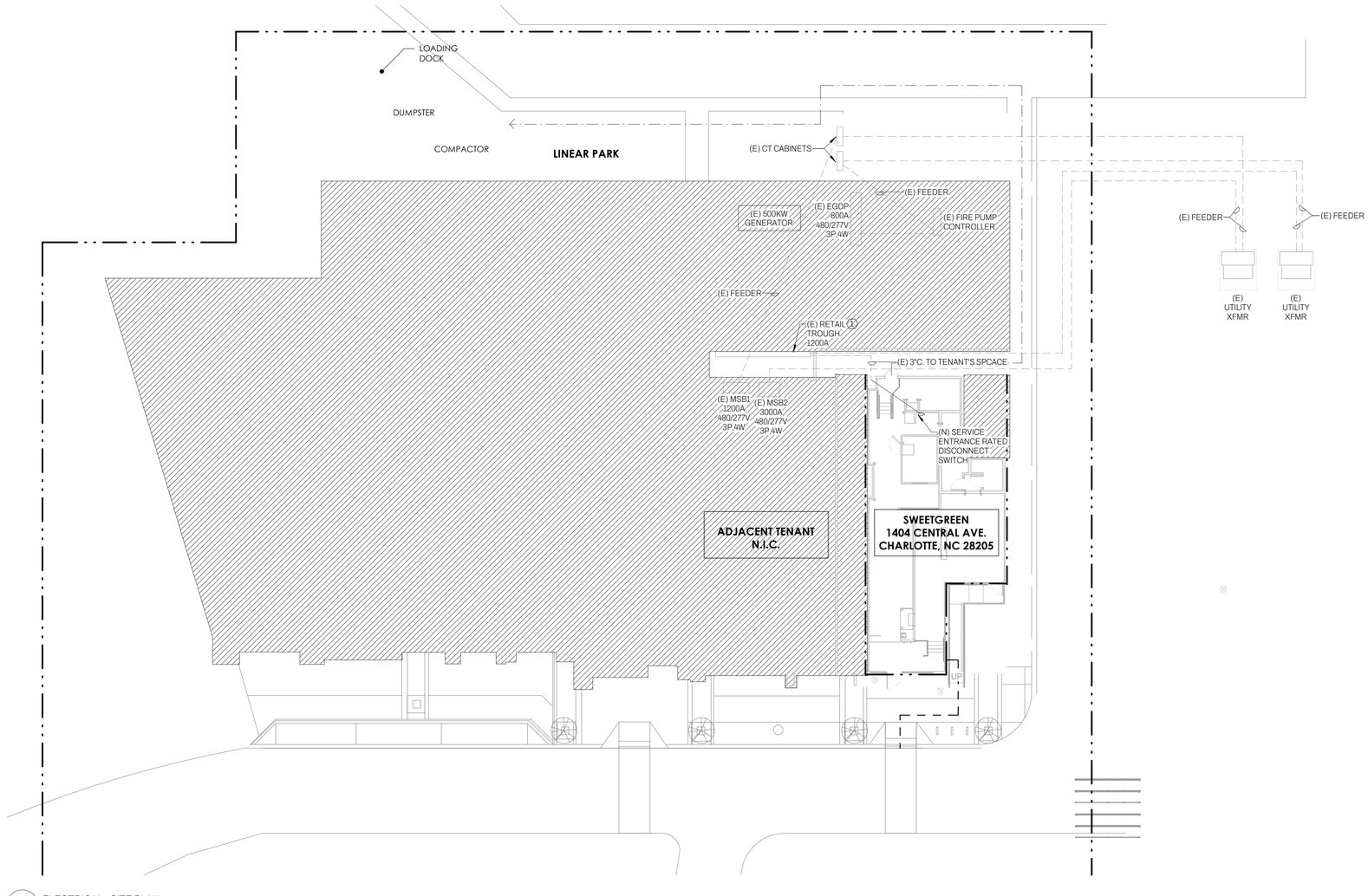
3 **E-020**

GENERAL NOTES

1. ALL ELECTRICAL EQUIPMENT OUTSIDE OF TENTA'S SPACE ARE EXISTING AND SHOWN FOR REFEERENCE ONLY UNLESS NOTED OTHERWISE.
2. REFER TO 1/E401 FOR THE ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.

KEY NOTES

1. PROVIDE A NEW CT METER PER UTILITY REQUIREMENTS. FIELD-COORDINATE THE EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY WIRING AND CONDUITS FOR A COMPLETE ELECTRICAL SERVICE CONNECTION.



1 / E-030 ELECTRICAL - SITE PLAN
1/16" = 1'-0"

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3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:

WOLF ENGINEERING

P.O. BOX 38 | DALTON, GA 30722

STAMP:

NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER MICHAEL CHRISTOPHER WOLF
COA:P – 2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

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ELECTRICAL SITE PLAN

E-030

GENERAL NOTES

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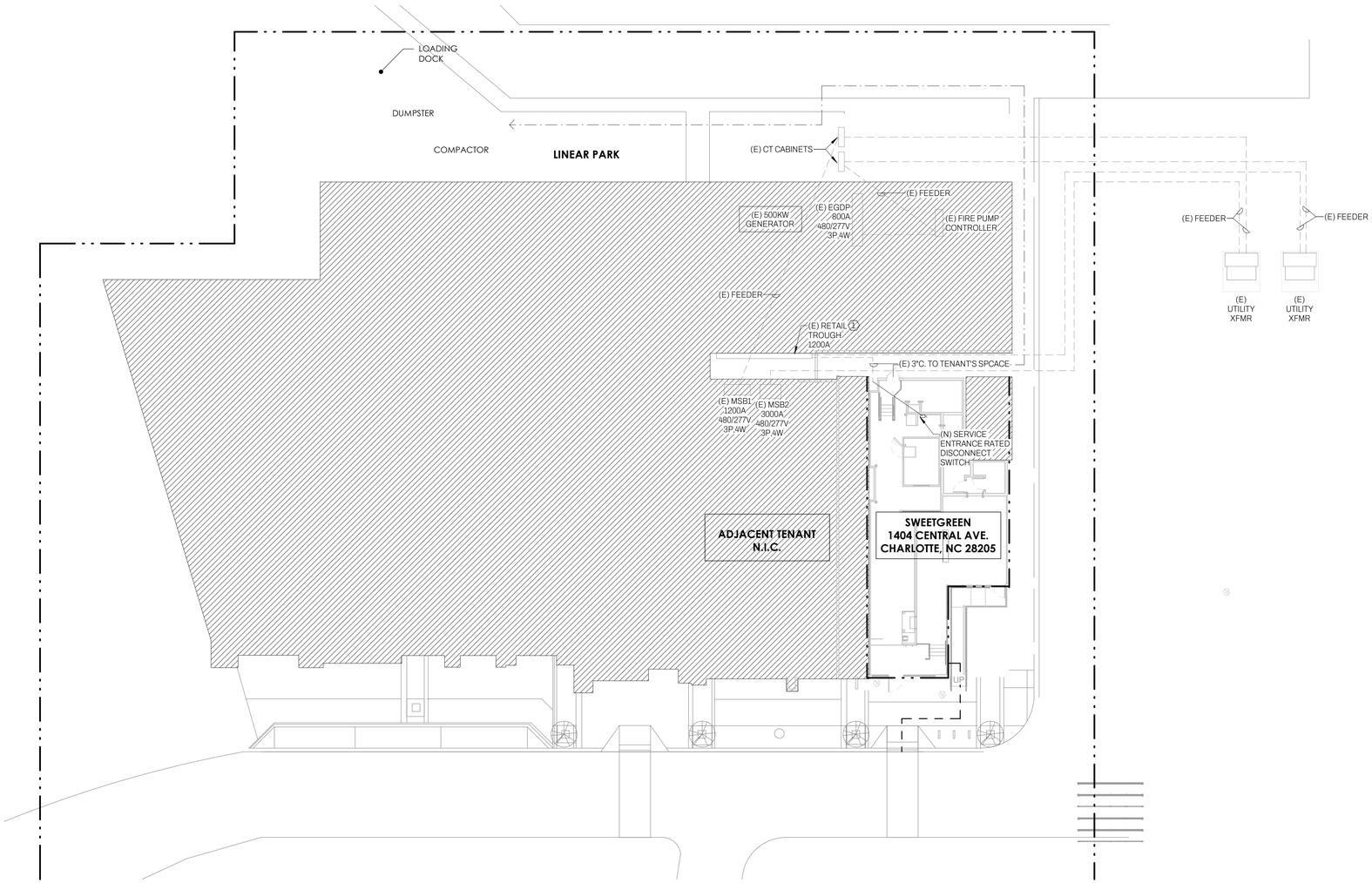
2. REFER TO 1/E401 FOR THE ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.

KEY NOTES

1. PROVIDE A NEW CT METER PER UTILITY REQUIREMENTS. FIELD-COORDINATE THE EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY WIRING AND CONDUITS FOR A COMPLETE ELECTRICAL SERVICE CONNECTION.



1 E-030 ELECTRICAL - SITE PLAN
1/16" = 1'-0"

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sg

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ENGINEER OF RECORD:
WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:
JOHN H. CARROLL IV PROFESSIONAL SEAL 41016 ENGINEER MICHAEL WOLF
COA:P-2368
05/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

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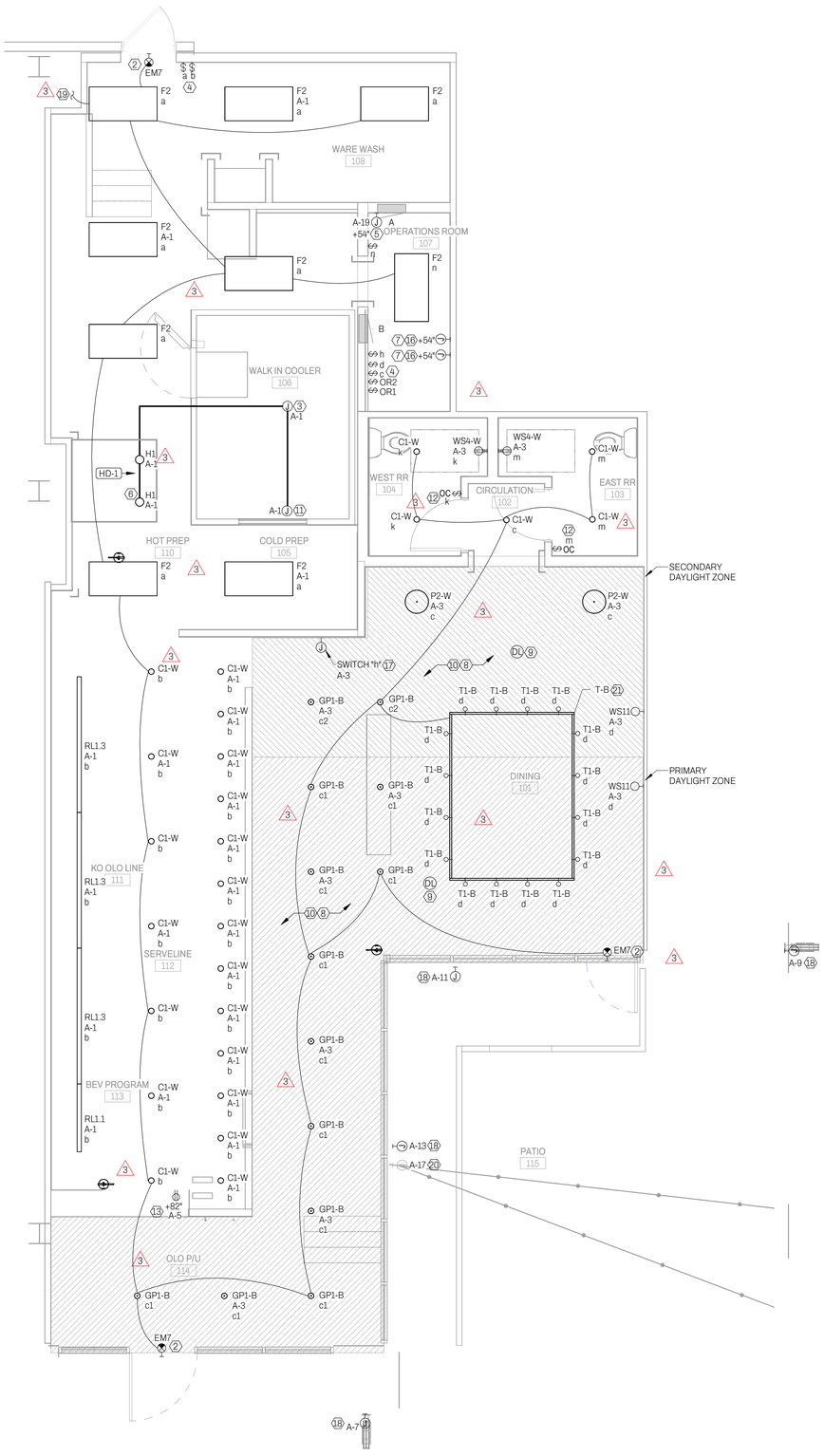
ELECTRICAL SITE PLAN

E-030 A



1 E-100 ELECTRICAL - FLOOR PLAN - LIGHTING
1/4" = 1'-0"

KEY NOTES

1. NOT USED.
2. EXIT SIGNS SHALL BE CONNECTED THROUGH THE NEAREST ADJACENT EMERGENCY GENERATOR CIRCUIT TO PROVIDE CONTINUOUS EMERGENCY ILLUMINATION PER THE NEC AND NCBC 403.4.8. EXIT SIGNS SHALL BE AC ONLY. VERIFY MOUNTING HEIGHTS OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED.
3. INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE POWER THROUGH THE LIGHTING CONTACTOR. REFER TO THE LIGHTING CONTROLS DETAILS FOR MORE INFORMATION. PROVIDE WIRING TO THE WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES. SEAL INTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE.
4. PROVIDE SWITCHES WHERE INDICATED. REFER TO THE LIGHTING CONTROL SCHEDULE FOR MANUFACTURER AND MODEL INFORMATION.
5. PROVIDE TIMECLOCK AND CONTACTORS ON THE WALL ABOVE THE CEILING AT THE PANELBOARDS IN THE APPROXIMATE LOCATION SHOWN. FIELD-VERIFY EXACT LOCATION.
6. ROUTE CIRCUIT FOR THE COOLER LIGHTING AND THE HOOD LIGHTING THROUGH THE LIGHTING CONTACTOR AS SHOWN ON DETAIL 2/SHEET E-401.
7. PROVIDE LOW-VOLTAGE WIRING BETWEEN THE ROOM CONTROLLER AND THE CONTROL DEVICES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. WIRE LIGHTING IN PRIMARY DAYLIGHTING ZONE THROUGH RELAY 1 OF ROOM CONTROLLER, LIGHTING IN SECONDARY DAYLIGHTING ZONE THROUGH RELAY 2 OF ROOM CONTROLLER AND IF APPLICABLE, GENERAL LIGHTING THROUGH RELAY 3 OF ROOM CONTROLLER.
9. PROVIDE CEILING-MOUNTED DAYLIGHT SENSOR IN LOCATION SHOWN. SENSOR SHALL BE CALIBRATED TO MAINTAIN A CONSISTENT LIGHTING LEVEL BETWEEN THE LIGHTING IN THE DAYLIGHTING ZONES AND THE DINING ROOM AT ALL TIMES. SEE LIGHTING CONTROL SCHEDULE FOR MANUFACTURER AND MODEL INFORMATION.
10. COORDINATE THE ROUTING OF ALL EXPOSED CONDUIT WITH SWEETGREEN'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
11. COORDINATE INSTALLATION REQUIREMENTS OF THE COOLER WINDOW LIGHTING WITH THE EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. REFER TO DETAIL 5/SHEET E-401.
12. PROVIDE WALL-MOUNTED OCCUPANCY SENSOR SWITCH FOR CONTROL OF ROOM LIGHTING WHERE INDICATED. REFER TO THE LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION. CIRCUIT AS INDICATED AND SET SWITCH TO AUTOMATICALLY TURN LIGHTING ON. DEVICE SHALL TURN ROOM LIGHTING OFF AFTER 15 MINUTES OF VACANCY.
13. PROVIDE A RECEPTACLE FOR THE OLO SIGNAGE. COORDINATE MOUNTING LOCATION AND ALL OTHER REQUIREMENTS WITH SWEETGREEN'S VENDOR PRIOR TO ROUGH-IN.
14. NOT USED.
15. NOT USED.
16. PROVIDE ROOM CONTROLLER MOUNTED TO WALL ABOVE CEILING IN LOCATION SHOWN. REFER TO THE LIGHTING CONTROL SCHEDULE FOR MODEL NUMBER.
17. JUNCTION BOX FOR INTERIOR NEON LIGHTING. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH THE ARCHITECT, OWNER'S REPRESENTATIVE, AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN AND LIGHTING SWITCH AT OFFICE SWITCHBANK.
18. JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE SIGN INSTALLER (IF APPLICABLE) PRIOR TO ROUGH-IN. EXTEND WIRING THROUGH AN EXTERIOR PHOTOCELL AND LIGHTING CONTACTOR PER THE LIGHTING CONTROL DETAIL.
19. CONNECT DESIGNATED LIGHTING FIXTURES TO PANEL EH1 (EMERGENCY GENERATOR CIRCUIT). PROVIDE UL 924 LISTED EMERGENCY LIGHTING BYPASS DEVICE TO ENSURE FIXTURES AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER, REGARDLESS OF LOCAL SWITCHING OR CONTROL.
20. EXISTING JUNCTION BOX FOR EXTERIOR STRING LIGHTS AT COVERED PATIO. COORDINATE EXACT LOCATION IN THE FIELD. EXTEND WIRING THROUGH AN EXTERIOR PHOTOCELL AND LIGHTING CONTACTOR PER THE LIGHTING CONTROL DETAIL.
21. PROVIDE A 2A CURRENT LIMMITER FOR TRACK LIGHTING.

GENERAL NOTES

A. THIS DRAWING SHALL BE USED FOR BIDDING PURPOSES ONLY. REFER TO SUCCESSFUL FOOD SERVICE EQUIPMENT SUPPLIER ROUGH-IN DRAWINGS FOR EXACT LOCATION AND WIRING REQUIREMENTS.

B. COORDINATE WIRING REQUIREMENTS AND CIRCUIT BREAKER SIZES WITH ACTUAL EQUIPMENT PURCHASED. ADJUST SIZES OF COMPONENTS AS REQUIRED PRIOR TO INSTALLATION.

C. PROVIDE AND INSTALL MANUAL MOTOR STARTERS FOR HOOD EXHAUST FANS. SWITCHES FOR FANS SHALL BE LOCATED ON THE HOOD. PROVIDE ALL INTERCONNECTING WIRING FROM HOOD TO STARTERS, FIRE SUPPRESSION SYSTEM, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

D. PROVIDE ALL FINAL CONNECTIONS TO ALL EQUIPMENT. THIS INCLUDES PROVIDING ALL STARTERS, CONTACTORS, WIRING DEVICES, CONDUIT, WIRE AND LABOR.

E. PROVIDE CONNECTION FROM HOOD EXTINGUISHING SYSTEM TO THE BUILDING FIRE ALARM SYSTEM.

F. SEE DETAILS ON FOOD SERVICE DRAWINGS FOR ALL WIRING DEVICES INSTALLED ON EQUIPMENT.

G. HARDWIRED CONNECTIONS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT.

H. ALL ACCESSIBLE 120V RECEPTACLES IN THE KITCHEN AND FOOD SERVICE AREAS SHALL BE GFI TYPE. ALL INACCESSIBLE 120V EQUIPMENT SHALL BE CONNECTED TO A GFI TYPE CIRCUIT BREAKER.

I. REFER TO ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

J. PROVIDE CONTROL WIRING FOR GAS EMERGENCY SHUT OFF.

K. SEE GENERAL NOTES ON KITCHEN EQUIPMENT DRAWINGS FOR ELECTRICAL CONTRACTOR SCOPE REQUIREMENTS.

L. ALL LIGHTING CONTROLS SHALL COMPLY WITH IECC C405.2.

M. CONTRACTOR SHALL FIELD COORDINATE ALL EMERGENCY GENERATOR CONNECTIONS WITH EXISTING CONDITIONS PRIOR TO NEW WORK.

sg

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WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:
NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER MICHAEL WOLF
COA:P – 2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

DRAWN BY:	HA
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PROJECT NO:	20240137.0
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ELECTRICAL LIGHTING PLAN

3 **E-100**

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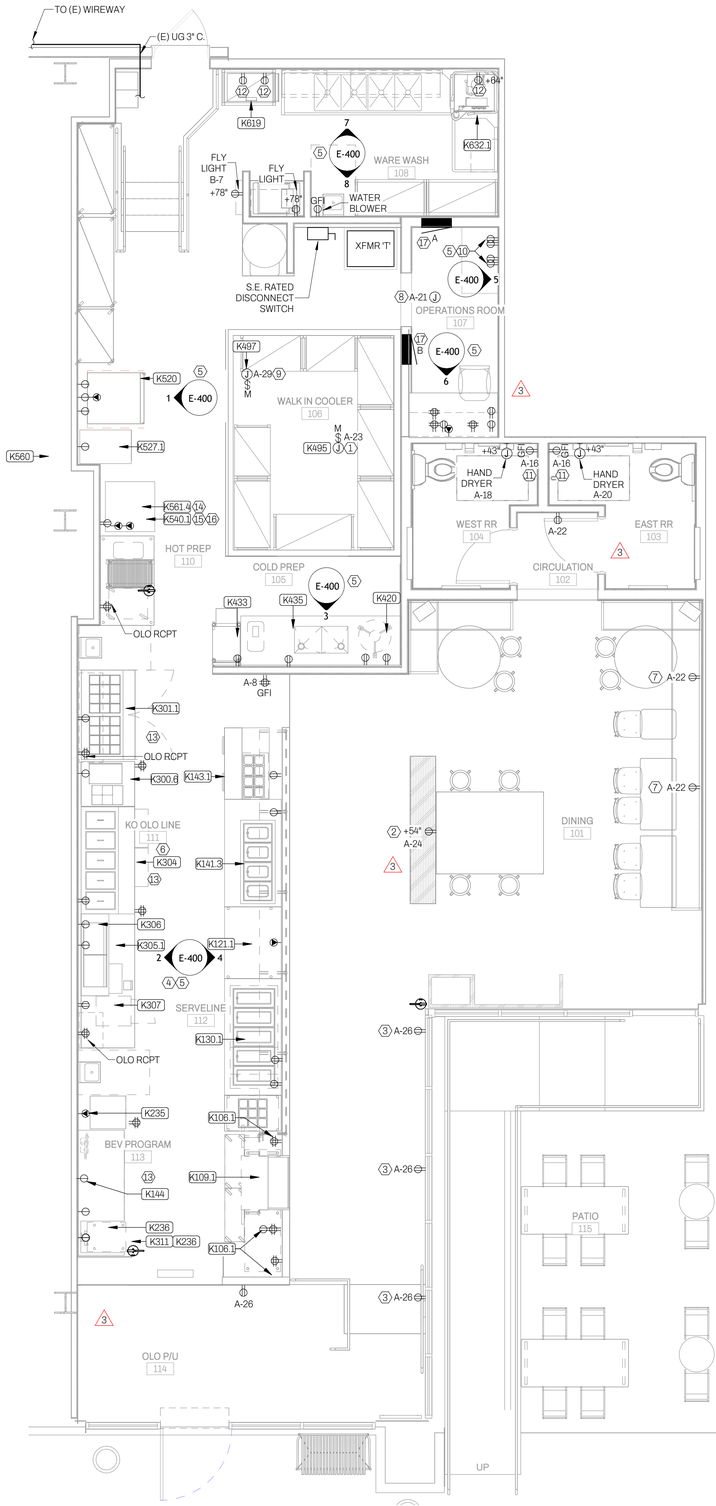

1 E-200 ELECTRICAL - FLOOR PLAN - POWER
1/4" = 1'-0"

KEY NOTES

12. PROVIDE TAYMAC MM510C SINGLE-GANG VERTICAL WEATHERPROOF WHILE IN USE OUTLET COVER ON DISH MACHINE AND FOG TANK RECEPTACLES. NO SUBSTITUTES SHALL BE ACCEPTED.
13. POWER FOR DIGITAL MENU BOARDS ARE TO BE MOUNTED TO THE MENU BOARD SUPPORT FRAME AND THE CONDUCTORS ARE TO BE ROUTED THROUGH THE LEGS FOR THE DISPLAY MOUNT BACK TO THE PANELBOARD INDICATED. COORDINATE THE LOCATION AND MOUNTING LOCATION WITH THE DISPLAY VENDOR.
14. THE GENERAL CONTRACTOR SHALL PROVIDE 5' LONG CORD, AND AN ANGLED NEMA L6-15P PLUG FOR BLAST CHILLER PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
15. THE GENERAL CONTRACTOR SHALL PROVIDE A 5' LONG CORD AND NEMA L5-50P PLUG FOR THE COMBINATION OVEN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. ROUTE POWER CONNECTION TO THE COMBINATION OVENS THROUGH THE SHOCK BLOCK MOUNTED AT THE PANELBOARDS.
17. MOUNT SHOCK BLOCK TO THE WALL IN A READILY ACCESSIBLE LOCATION. COORDINATE WITH THE TENANT'S CONSTRUCTION MANAGER AND THE EQUIPMENT FURNISHED BY THE TENANT PRIOR TO ROUGH-IN.

1. PROVIDE POWER FOR WALK-IN COOLER EVAPORATOR FAN. COORDINATE REQUIREMENTS WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
2. PROVIDE RECEPTACLE FOR LOCAL LIST. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION.
3. SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL NO GREATER THAN 18" ABOVE THE MAIN STORE-FRONT WINDOW. RECEPTACLES SHALL BE ALLIGNED WITH MULLIONS OR CENTERED ON PANES.
4. REFER TO EVI SHOP DRAWINGS FOR HORIZONTAL AND VERTICAL DIMENSIONS OF ALL SERVE LINE RECEPTACLES.
5. REFER TO ELEVATION ON SHEET E-400 FOR RECEPTACLE CIRCUIT DESIGNATIONS.
6. PROVIDE 5' LONG CORD, AND NEMA L5-30P PLUG FOR THE HOT FOOD WELLS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. COORDINATE HEIGHT AND LOCATION OF THE CONVENIENCE RECEPTACLE WITH MILLWORK PRIOR TO ROUGH-IN. RECEPTACLE SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION.
8. PROVIDE JUNCTION BOX 0'-6" BELOW THE FINISHED CEILING ABOVE THE OFFICE DOOR FOR THE SECURITY PANEL POWER SUPPLY. ONCE THE PANEL HAS BEEN PROVIDED BY THE SECURITY VENDOR, PROVIDE POWER CABLING AS REQUIRED AND MAKE CONNECTION. COORDINATE INSTALLATION LOCATION AND ALL OTHER REQUIREMENTS WITH THE SECURITY VENDOR PRIOR TO ROUGH-IN.
9. PROVIDE POWER CONNECTION FOR AIR-DOOR, WINDOW WARMER, AND ALL COOLER ACCESSORIES. COORDINATE ALL REQUIREMENTS WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO BID.
10. PROVIDE TWO DUPLEX RECEPTACLES IN A COMMON JUNCTION BOX FOR THE IT RACK POWER. PROVIDE INDIVIDUAL CIRCUITS AS SHOWN IN THE ELEVATIONS ON SHEET E-400.
11. PROVIDE RECEPTACLE FOR LAVATORY CONTROL MODULE RECEPTACLE PER PLUMBING DETAIL.

GENERAL NOTES

A. THIS DRAWING SHALL BE USED FOR BIDDING PURPOSES ONLY. REFER TO SUCCESSFUL FOOD SERVICE EQUIPMENT SUPPLIER ROUGH-IN DRAWINGS FOR EXACT LOCATION AND WIRING REQUIREMENTS.

B. COORDINATE WIRING REQUIREMENTS AND CIRCUIT BREAKER SIZES WITH ACTUAL EQUIPMENT PURCHASED. ADJUST SIZES OF COMPONENTS AS REQUIRED PRIOR TO INSTALLATION.

C. PROVIDE AND INSTALL MANUAL MOTOR STARTERS FOR HOOD EXHAUST FANS. SWITCHES FOR FANS SHALL BE LOCATED ON THE HOOD. PROVIDE ALL INTERCONNECTING WIRING FROM HOOD TO STARTERS, FIRE SUPPRESSION SYSTEM, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.

D. PROVIDE ALL FINAL CONNECTIONS TO ALL EQUIPMENT. THIS INCLUDES PROVIDING ALL STARTERS, CONTACTORS, WIRING DEVICES, CONDUIT, WIRE AND LABOR.

E. PROVIDE CONNECTION FROM HOOD EXTINGUISHING SYSTEM TO THE BUILDING FIRE ALARM SYSTEM.

F. SEE DETAILS ON FOOD SERVICE DRAWINGS FOR ALL WIRING DEVICES INSTALLED ON EQUIPMENT.

G. HARDWIRED CONNECTIONS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT.

H. ALL ACCESSIBLE RECEPTACLES IN THE KITCHEN AND FOOD SERVICE AREAS SHALL BE GFI TYPE. ALL INACCESSIBLE EQUIPMENT SHALL BE CONNECTED TO A GFI TYPE CIRCUIT BREAKER.

I. REFER TO ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

J. STUB ALL KITCHEN POWER FROM BELOW FINISHED FLOOR BACK TO SOURCE. POWER FOR ALL DEVICES SHALL BE ROUTED IN DEDICATED 1" CONDUIT U.O.N.

K. PROVIDE CONTROL WIRING FOR GAS EMERGENCY SHUT OFF.

L. SEE GENERAL NOTES ON KITCHEN EQUIPMENT DRAWINGS FOR ELECTRICAL CONTRACTOR SCOPE REQUIREMENTS.

M. ALL LIGHTING CONTROLS SHALL COMPLY WITH IECC C405.2.

ELECTRICAL EQUIPMENT SCHEDULE

TAG	QTY	DESCRIPTION	VENDOR	MODEL	VOLTAGE	PHASE	WATTS	DISCONNECT MEANS	REMARKS
K106.1	1	POS COUNTERTOP BASE	FABRICATION SPECIALISTS	CUSTOM	120	1	600	NEMA 5-20R	-
3 K109.1	1	REF UC SELF SERVICE CASE	STRUCTURAL CONCEPTS	CO33R-UC	120	1	1053	NEMA 5-20R	-
K121.1	1	HOT FOOD DROP-IN WELL	ALTO-SHAAM	300-HWI/D643	120	1	2400	NEMA L5-30R	-
K130.1	1	5-PAN REFRIGERATED WORKTOP TABLE	DELFIELD	18MC78P	120	1	576	(2) NEMA 5-20R	-
K141.3	1	REFR. MEGATOP - SERVELINE SALAD BASES	DELFIELD	000-20112QVD1	120	1	1032	NEMA 5-20R	-
K143.1	1	SANDWICH / SALAD PREP REFRIGERATOR	CONTINENTAL	SW48N8	120	1	576	NEMA 5-20R	-
3 K144	2	FRY WARMER	HATCO	GRFFB	120	1	750	NEMA 5-20R	-
K235	1	SOFT SERVE MACHINE	STOELTING	F131-3812	208	1	3000	NEMA 6-20R	-
K236 3	2	BEVERAGE DISPENSER DOUBLE BOWL	GRINDMASTER-CECILWARE	D25-3	120	1	660	NEMA 5-20R	-
K300.6	1	HOT FOOD WELL UNIT, DROP-IN, ELECTRIC	ALTO-SHAAM	100-HW/D6	120	1	600	NEMA 5-20R	-
K301.1	1	MEGA TOP SANDWICH / SALAD PREPARATION REFRIGERATOR	DELFIELD	4460NP-24M-A5	120	1	720	NEMA 5-20R	-
K304	1	5 PAN REFRIGERATOR WITH DRAWERS - 72" WIDE	DELFIELD	000-201128TRS	120	1	1032	NEMA 5-20R	-
K305.1	1	CUSTOM SS OLO SERVELINE PACKING TABLE W/ HOT + COLD WELLS, CRUNCH, BAG RACK. COMP4RT	DELFIELD	000-20113RVE1	120	1	276	NEMA 5-20R	-
K306	1	WATERLESS HOT FOOD WELL	ALTO-SHAAM	200-HW/D6	120	1	1200	NEMA 5-20R	-
K307	1	UNDERCOUNTER REFRIGERATOR	BEVERAGE-AIR	UCR20HC	120	1	240	NEMA 5-20R	-
K311	1	NUGGET ICE MAKER W/ BIN	MANITOWOC	UNP-0200A	120	1	900	NEMA 5-15R	-
K420	1	SALAD DRYER	DELFIELD	SALD-1	120	1	324	NEMA 5-20R	-
K433	1	FOOD PROCESSOR- BENCHTOP / COUNTERTOP	ROBOT COUPE	CL52E	120	1	900	NEMA 5-20R	PROVIDE 20A DEDICATED BREAKER.
K435	1	IMMERSION BLENDER	BY OWNER	BY OWNER	120	1		NEMA 5-20R	-
K495	1	COOLER EVAP COIL	KOLPAK	CUSTOM	120	1	192	MOTOR RATED SWITCH	GC TO CONNECT ELECTRICAL, PROVIDE DISCONNECT AT COIL FOR SERVICE.
K496	1	COOLER REMOTE CONDENSOR	KOLPAK	CUSTOM	208	1	2787	NEMA 3R DISC. SWITCH	GC ELECTRICAN TO PROVIDE J BOX FOR OVERHEAD LIGHTING, DOOR LIGHT AND AIRSHIELD. GC TO SEAL ALL PENETRATIONS.
K497	1	COOLER AIR CURTAIN	KOLPAK	AIRSHIELD	120	1	168	MOTOR RATED SWITCH	GC ELECTRICIAN TO MAKE FINAL CONNECTIONS AND PROVIDE DISCONNECT AT COIL FOR SERVICE.
K520	3	RICE/GRAIN COOKER	TOWN	57137	120	1	1800	NEMA 5-20R	-
K527.1	1	HEATED LOW TEMP HOLDING CABINET	ALTO-SHAAM	1000-UP	120	1	1900	NEMA 5-20R	-
K540.1	2	COMBI OVEN	RATIONAL	ICP 6-HALF E 208/240V 3PH (LM100BE)	208	3	10,800	NEMA 15-50R	ELECTRICIAN TO PROVIDE AND INSTALL CORD & PLUG (15-50).
K560	1	EXHAUST SYSTEM	RATIONAL	ULTRAVENT 60.76.177	120	1	170	NEMA 5-20R	-
3 K560.1	1	TYPE 2 HOOD	CAPTIVEAIRE	6012 VHB	120	1	34	J-box	HOOD LIGHTING POWERED VIA LIGHTING CIRCUIT.
K561.4	1	CHILLER/FREEZER	IRINOX USA	EASYFRESH NEXT SL	208	1	1300	NEMA L6-15R	ELECTRICIAN TO PROVIDE AND INSTALL CORD & PLUG (L6-15).
K619	1	HEATED SOAK TANK SYSTEM	FOG TANK	STANDARD 40 GAL	120	1	1000	NEMA 5-20R	-
3 K632.3	1	DISHMACHINE - INLINE VENTLESS SPEC	AUTO-CHLOR	A5 VRX	120	1	1920	NEMA 5-20R	PROVIDE 20A DEDICATED BREAKER.

3

sg

sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:

WOLF ENGINEERING

P.O. BOX 38 | DALTON, GA 30722

STAMP:

COA: P – 2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

DRAWN BY:	HA
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

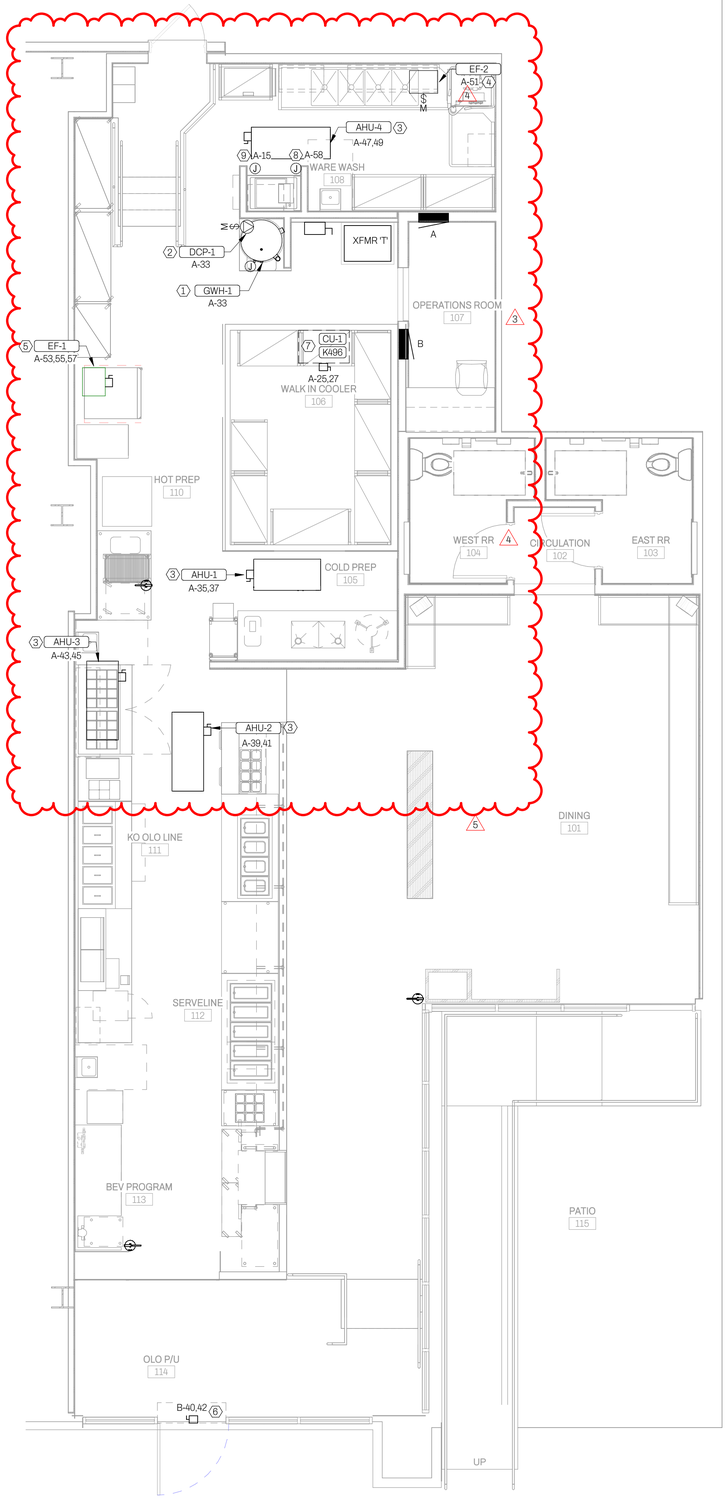
REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
B	04/11/2025	ADDENDUM B
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
3 4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

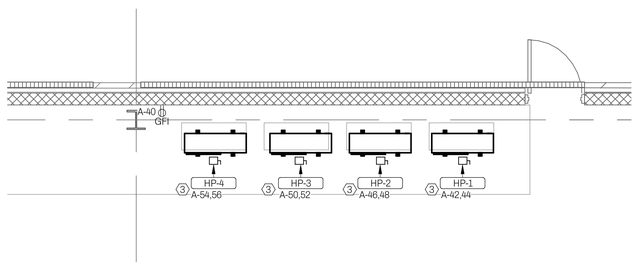
ELECTRICAL POWER PLAN

3 **E-200**

9/9/2025 5:21:43 PM



1 E-210 ELECTRICAL - FLOOR PLAN - MECHANICAL POWER
1/4" = 1'-0"



2 E-210 ELECTRICAL - MEZZANINE PLAN - MECHANICAL POWER
1/4" = 1'-0"

GENERAL NOTES

A. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE CONDUIT, WIRING, AND LOCAL DISCONNECTING MEANS AS REQUIRED AND SIZED PER NEC. ALL EQUIPMENT SHALL BE RATED FOR VOLTAGES SHOWN.

B. A GFI RECEPTACLE SHALL BE LOCATED WITHIN 25' OF ALL HVAC EQUIPMENT.

KEY NOTES

1. PROVIDE COMPLETE ELECTRICAL CONNECTION TO GAS WATER HEATER. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
2. PROVIDE COMPLETE ELECTRICAL CONNECTION TO CIRCULATION PUMP. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
3. PROVIDE COMPLETE ELECTRICAL CONNECTION TO UNIT. TERMINATE IN FACTORY PROVIDED DISCONNECT. VERIFY ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
4. PROVIDE NEMA 1 MOTOR RATED SWITCH AND COMPLETE ELECTRICAL CONNECTION FOR EXHAUST FAN. CIRCUIT AS SHOWN AND EXTEND THROUGH LIGHTING CONTACTOR AS INDICATED IN LIGHTING CONTROL DETAIL ON E-401. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
5. PROVIDE NEMA 1, 30A, 2 POLE DISCONNECT SWITCH AND COMPLETE ELECTRICAL CONNECTION FOR EXHAUST FAN. CIRCUIT AS SHOWN AND EXTEND THROUGH CONTACTOR AS INDICATED IN LIGHTING CONTROL DETAIL ON E-401. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
6. PROVIDE NEMA 1, 60A, 2 POLE DISCONNECT SWITCH AND COMPLETE ELECTRICAL CONNECTION FOR AIR CURTAIN. AIR DOOR SHALL BE CONNECTED TO CIRCUIT THROUGH DOOR SWITCH SUCH THAT AIR DOOR IS ENERGIZED WHEN THE DOOR IS OPENED. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
7. PROVIDE COMPLETE ELECTRICAL CONNECTION FOR COOLER CONDENSER. COORDINATE EXACT LOCATION AND ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
8. PROVIDE COMPLETE ELECTRICAL CONNECTION FOR THE MOTORIZED DAMPERS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE FINAL LOCATION AND ADDITIONAL REQUIREMENTS WITH THE MECHANICAL CONTRACTOR AND THE SEQUENCE OF OPERATIONS AS REQUIRED.
9. THE GENERAL CONTRACTOR SHALL FURNISH A REME HALO AIR PURIFICATION SYSTEM AND REQUIRED TRANSFORMER PURCHASED THROUGH SWEETGREEN'S VENDOR(NATIONAL TAB, CONTACT WILL TURNBOUGH [855-682-6822, EXT 4,2] WILL@NATIONALTAB.COM]). THE GENERAL CONTRACTOR SHALL PROVIDE POWER TO, AND INSTALL THE TRANSFORMER. THE GENERAL CONTRACTOR SHALL EXTEND CONDUIT AND CONDUCTORS FROM THE TRANSFORMER AND MAKE FINAL CONNECTION TO THE HALO UNIT. INTERLOCK UNIT OPERATION WITH SUPPLY-AIR FAN OPERATION OF THE ASSOCIATED MECHANICAL UNIT. REFER TO THE MECHANICAL PLANS FOR MORE INFORMATION. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

sg

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ENGINEER OF RECORD:
WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:
NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER
COA:P-2368
09/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE.,
SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	HA
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1
5	09/26/2025	BULLETIN 02

ELECTRICAL MECHANICAL POWER PLAN

3 4 **E-210**

9/29/2025 7:03:57 PM

BRANCH CIRCUIT SCHEDULE

CIRCUIT BREAKER	WIRES/CONDUIT	120/208V MAX DISTANCE	277/480V MAX DISTANCE
15/1	2#12,1#12G-3/4"C	75'	173'
15/2	2#12,1#12G-3/4"C	130'	299'
15/2N	3#12, 1#12G - 3/4"C	130'	299'
15/3	3#12, 1#12G - 3/4"C	150'	346'
15/6N	4#12, 1#12G - 3/4"C	150'	346'
20/1	2#12,1#12G-3/4"C	56'	129'
20/2	2#12,1#12G-3/4"C	97'	224'
20/2N	3#12, 1#12G - 3/4"C	97'	224'
20/3	3#12, 1#12G - 3/4"C	112'	259'
30/1	4#12, 1#12G - 3/4"C	59'	137'
30/2	2#10, 1#10G - 3/4"C	103'	268'
30/2N	3#10, 1#10G - 3/4"C	103'	238'
30/3	3#10, 1#10G - 3/4"C	119'	274'
30/3N	4#10, 1#10G - 3/4"C	119'	274'
35/1	2#10, 1#10G - 3/4"C	51'	118'
35/2	2#10, 1#10G - 3/4"C	88'	204'
35/2N	3#10, 1#10G - 3/4"C	88'	204'
35/3	3#10, 1#10G - 3/4"C	102'	235'
35/3N	4#10, 1#10G - 3/4"C	102'	235'
40/1	2#8, 1#10G - 3/4"C	70'	162'
40/2	2#8, 1#10G - 3/4"C	121'	281'
40/2N	3#8, 1#10G - 3/4"C	121'	281'
40/3	3#8, 1#10G - 3/4"C	140'	325'
40/3N	4#8, 1#10G - 1"C	140'	325'
45/1	2#8, 1#10G - 3/4"C	62'	144'
45/2	2#8, 1#10G - 3/4"C	108'	250'
45/2N	3#8, 1#10G - 3/4"C	108'	250'
45/3	3#8, 1#10G - 3/4"C	125'	288'
45/3N	4#8, 1#10G - 1"C	125'	288'
20/3N	4#12, 1#12G - 3/4"C	112'	259
50/1	2#8, 1#10G - 3/4"C	56'	130'
50/2	2#8, 1#10G - 3/4"C	97'	225'
50/2N	3#8, 1#10G - 3/4"C	97'	225'
50/3	3#8, 1#10G - 3/4"C	112'	260'
50/3N	4#8, 1#10G - 1"C	112'	260'
60/1	2#6, 1#10G - 3/4"C	73'	168'
60/2	2#6, 1#10G - 3/4"C	127'	292'
60/2N	3#6, 1#10G - 1"C	127'	292'
60/3	3#6, 1#10G - 1"C	146'	337'
60/3N	4#6, 1#10G - 1"C	146'	337'
70/1	2#4, 1#8G - 1"C	98'	225'
70/2	2#4, 1#8G - 1"C	169'	391'
70/2N	3#4, 1#8G - 1"C	169'	391'
70/3	3#4, 1#8G - 1"C	195'	452'
70/3N	4#4, 1#8G - 1 1/4"C	195'	452'
80/1	2#4, 1#8G - 1"C	85'	197'
80/2	2#4, 1#8G - 1"C	148'	342'
80/2N	3#4, 1#8G - 1"C	148'	342'
80/3	3#4, 1#8G - 1"C	171'	395'
80/3N	4#4, 1#8G - 1 1/4"C	171'	395'
90/1	2#3, 1#8G - 1 1/4"C	94'	217'
90/2	2#3, 1#8G - 1 1/4"C	163'	377'
90/2N	3#3, 1#8G - 1 1/4"C	163'	377'
90/3	3#3, 1#8G - 1 1/4"C	188'	435'
90/3N	4#3, 1#8G - 1 1/4"C	188'	435'
100/1	2#3, 1#8G - 1 1/4"C	85'	195'
100/2	2#3, 1#8G - 1 1/4"C	147'	339'
100/2N	3#3, 1#8G - 1 1/4"C	147'	339'
100/3	3#3, 1#8G - 1 1/4"C	169'	392'
100/3N	4#3, 1#8G - 1 1/4"C	169'	392'

: 60

PANELBOARD: A

LOCATION
SUPPLY A
MOUNTING RECESSED
ENCLOSURE NEMA 1

VOLTAGE 208 V, 3Ø, 4W
BUS RATING 400 A
NEUTRAL 100%
FEED-THRU LUG YES

MAIN TYPE MCB
MAIN RATING 400 A
SCCR 22 KA

CKT	DESCRIPTION	TRIP...	POLE	A		B		C		POLE	TRIP...	DESCRIPTION	CKT
1	LIGHTING - KITCHEN	20	1	1262	720					1	20	RCPT - OLO	2
3	LIGHTING - DINING	20	1			481	1080			1	20	RCPT - DIGITAL MENU BOARDS	4
5	LIGHTING - EXTERIOR SIGN	20	1					396	360	1	20	RCPT - OLO	6
7	LIGHTING - EXTERIOR SIGN	20	1	1200	360					1	20	RCPT - SERVELINE CONV.	8
9	LIGHTING - EXTERIOR SIGN	20	1			1200	600			1	20	K106 - POS COUNTERTOP	10
11	LIGHTING - EXTERIOR SIGN	20	1					1200	600	1	20	K106 - POS COUNTERTOP	12
13	LIGHTING - EXTERIOR SIGN	20	1	1200	600					1	20	K106 - POS COUNTERTOP	14
15	REMO PURIFIERS	20	1			720	360			1	20	RCPT - RESTROOMS	16
17	LIGHTING - EXTERIOR	20	1					360	1000	1	• 20	HAND DRYER - WEST RR	18
19	TIME CLOCK/CONTACTORS	20	1	12	1000					1	• 20	HAND DRYER - EAST RR	20
21	ALARM PANEL	20	1			360	540			1	20	RCPT - DINING CONV.	22
23	K495 - COOLER EVAP COIL	20	1					192	180	1	20	RCPT - LOCAL LIST	24
25	K496 - CU-1 COOLER COND.	25	2	1394	720					1	20	RCPT - STOREFRONT	26
27						1394	180			1	20	RCPT - AV RACK	28
29	K497 - COOLER AIR CURTAIN	20	1					168	180	1	20	RCPT - AV RACK	30
31	USB - OFFICE	20	1	180	180					1	20	RCPT - AV RACK	32
33	GWH-1 & DCP-1	20	1			100	180			1	20	RCPT - AV RACK	34
35	AHU-1	**20	2					2000	540	1	20	RCPT - OFFICE	36
37				2000	1080					1	20	RCPT - OFFICE	38
39	AHU-2	**30	2			3000	180			1	20	RCPT - MEZZANINE	40
41								3000	915	2	**20	HP-1	42
43	AHU-3	**30	2	3000	915								44
45						3000	0			2	**20	HP-2	46
47	AHU-4	**30	2					3000	0				48
49				3000	0					2	**20	HP-3	50
51	EF-2	15	1			156	0						52
53								360	0	2	**20	HP-4	54
55	EF-1 (4)	15	3	360	0								56
57						360	360			1	**20	MOTORIZED DAMPERS	58
59	SPARE	20	1					0	0	1	20	SPARE	60
				LOAD:	39 KVA		34 KVA		35 KVA				
				CURRENT:	323 A		282 A		295 A				

LOAD CLASSIFICATION	CONNECTED	FACTOR	DEMAND
MOTOR	4227 VA	100.00%	4227 VA
OTHER	336 VA	100.00%	336 VA
LIGHTS	7311 VA	125.00%	9139 VA
RCPT	9180 VA	100.00%	9180 VA
HVAC	23830 VA	100.00%	23830 VA
HEAT	100 VA	100.00%	100 VA
SPEC	9902 VA	100.00%	9902 VA
KITCHEN	52605 VA	65.00%	34193 VA

PANEL TOTALS	
CONN. LOAD	107 KVA
CONN. AMPS	298 A
DEMAND LOAD	91 KVA
DEMAND AMPS	252 A

NOTES:
* PROVIDE A LOCKABLE CIRCUIT BREAKER
** PROVIDE HACR CIRCUIT BREAKER.

PANELBOARD: B

LOCATION
SUPPLY A
MOUNTING RECESSED
ENCLOSURE NEMA 1

VOLTAGE 208 V, 3Ø, 4W
BUS RATING 400 A
NEUTRAL 100%
FEED-THRU LUG NO

MAIN TYPE MCB
MAIN RATING 400 A
SCCR 22 KA

CKT	DESCRIPTION	TRIP...	POLE	A		B		C		POLE	TRIP...	DESCRIPTION	CKT
1	K632.1 - DISMACHINE	• 20	1	1920	1032					1	• 20	K304 - REFRIGERATOR	2
3	K619 - HEATED SOAK TANK	• 20	1			1000	1200			1	• 20	K306 - WATERLESS HOT WELL	4
5	K619 - HEATED SOAK TANK	• 20	1					1000	276	1	• 20	K305.1 - OLO PACKING TABLE	6
7	RCPT - FLY LIGHT	• 20	1	360	240					1	• 20	K307 - UC REFRIGERATOR	8
9	RCPT - WATER BLOWER	• 20	1			180	1500			2	• 20	K235 - SOFT SERVE MACHINE	10
11								3600	1500				12
13	K540.1 - COMBI OVEN	• 35	3	3600	750					1	• 15	K144 - FRY WARMER	14
15						3600	660			1	• 20	K236 - BEV. DISPENSER	16
17								3600	900	1	∴ 15	K311 - NUGGET ICE MAKER	18
19	K540.1 - COMBI OVEN	• 35	3	3600	324					1	• 20	K420 - SALAD DRYER	20
21						3600	180			1	• 20	RCPT - COLD PREP AREA	22
23	K560 - EXHAUST SYSTEM	• 20	1					170	300	1	• 20	K435 - IMMERSION BLENDER	24
25	K520 - RICE/GRAIN COOKER	• 20	1	1800	900					1	• 20	K433 - FOOD PROCESSOR	26
27	K520 - RICE/GRAIN COOKER	• 20	1			1800	576			1	• 20	K143.1 - SALAD PREP. REFRIG.	28
29	K520 - RICE/GRAIN COOKER	• 20	1					1800	1032	1	• 20	K141.3 - REFRIG. MEGATOP	30
31	K561.4 - CHILLER/FREEZER	• 15	2	650	2400					1	• 30	K121.1 - HOT FOOD WELL	32
33						650	576			1	• 20	K130.1 - 5-PAN REFRIG. TABLE	34
35	K527.1 - HEATED CABINET	• 20	1					1900	576	1	• 20	K130.1 - 5-PAN REFRIG. TABLE	36
37	K301.1 - SALAD PREP. REFREG.	• 20	1	720	1053					1	• 20	K109.1 - UC REFRIGERATOR	38
39	K300.6 - HOT FOOD WELL	• 20	1			600	3411			2	**45	AIR CURTAIN	40
41	K236 - BEV. DISPENSER	• 20	1					660	3411				42
43	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	44
45	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	46
47	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	48
49	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	50
51	SPACE ONLY	--	1			--	0			1	20	SPARE	52
53	SPACE ONLY	--	1					--	0	1	20	SPARE	54
55	SPACE ONLY	--	1	--	0					1	20	SPARE	56
57	SPACE ONLY	--	1			--	0			1	20	SPARE	58
59	SPACE ONLY	--	1					--	0	1	20	SPARE	60
				LOAD:	19 KVA		20 KVA		21 KVA				
				CURRENT:	161 A		163 A		173 A				

LOAD CLASSIFICATION	CONNECTED	FACTOR	DEMAND
RCPT	540 VA	100.00%	540 VA
SPEC	6822 VA	100.00%	6822 VA
KITCHEN	52245 VA	65.00%	33959 VA

PANEL TOTALS	
CONN. LOAD	60 KVA
CONN. AMPS	165 A
DEMAND LOAD	41 KVA
DEMAND AMPS	115 A

NOTES:
* PROVIDE GFCI CIRCUIT BREAKER.
** PROVIDE HACR CIRCUIT BREAKER.

LIGHT FIXTURE SCHEDULE

ID	SUPPLIER	INSTALLER	MANUFACTURER	MODEL NUMBER	MOUNTING	LAMP	VOLTS	CCT	LUMENS	WATTS	DESCRIPTION	REMARKS
C1-W	OWNER	GC	ENVISION LED	LED-CADM-3M20-5CCT-UNV-CADM-4-WH (4" WHITE TRIM)	RECESSED	LED	120	3000	1000	10	RECESSED ROUND 4" DOWNLIGHT. IC RATED. 0-10V DIMMING	
EM7	OWNER	GC	LITHONIA	LQM S W 3 R 120/277 X2 M6	WALL @7'-6"	LED	120	0	0	1	LED EXIT SIGN, 1-FACE, WALL MOUNT, WHITE THERMOPLASTIC, RED LETTERING, PROVIDE ARROWS AS SHOWN,	1
F2	OWNER	GC	TCP	DT-F-4-U-ZD-46-30K	LAY-IN	INTEGRAL LED	120	3000	5100	46	2'X4' LED BACK-LIT, LAY-IN PANEL. 0-10V DIMMING	
GP1-B	OWNER	GC	DMF LIGHTING	DCC-CC-S-M-4-D-10-G-0-00-0-30-B-O-00	SUSPENDED	LED	120	3000	1000	10	4" DIAMETER 8" HIGH CYLINDER MEDIUM, 8' ADJUSTABLE CORD MOUNT WITH BLACK FINISH. 0-10V DIMMING	
H1	GC	GC	ALLANSON LIGHTING TECHNOLOGIES	(ALF16-120V-WW-R)+(54-262-02-ALT)	SURFACE	LED	120	3500	1166	17	HOOD-MOUNTED LED LIGHT	2
P2-W	OWNER	GC	MUUTO	FLUID PENDANT - LARGE, SKU# 15A03	SUSPENDED	LED	120	3500	3238	15	FEATURE PENDANT LIGHTING - OPAL GLASS PENDANT	
RL1.1	OWNER	GC	CORONET LIGHITNG	LSR2-4-30-HIGH-UNV-DB-W-NT-FL	RECESSED	INTEGRAL LED	120	3000	3500	30	4' RECESSED LINEAR LED STANDARD OUTPUT. 0-10V DIMMING	
RL1.3	OWNER	GC	CORONET LIGHITNG	LSR2-8-30-HIGH-UNV-DB-W-NT-FL	RECESSED	INTEGRAL LED	120	3000	7000	60	8' RECESSED LINEAR LED STANDARD OUTPUT. 0-10V DIMMING	
T1-B	OWNER	GC	AMERLUX	DOT-A2D-MB-NF-309-DALI / SD-TSD.X.B	TRACK	INTEGRAL LED	120	3000	2878	7	TRACK HEAD, LENGTH(S) PER PLAN. INSTALL WITH COLOR MATCHED ENDCAPS AND CONNECTORS. REFER TO DETAILS	
T-B	OWNER	GC	AMERLUX	SD-TSD-X	TRACK	LED	120	0	0	<VARIES>	LIGHTING TRACK, SINGLE CIRCUIT, WHITE, SURFACE MOUNT, LENGTH AS SHOWN ON PLANS	
WS4-W	OWNER	GC	RICH BRILLIANT WILLING	CR-WS-S10-AA01-27-120_TR_LINE-IP20	SURFACE WALL	INTEGRAL LED	120	2700	445	9	LED WALL SCONCE WITH EMERGENCY DRIVER, WET LOCATION RATED. TRIAC DIMMING	
WS11	OWNER	GC	RICH BRILLIANT WILLING	TP-WS-1D-M-E-V1-27-10-TRIAC-120V-IP65	SURFACE WALL	INTEGRAL LED	120	2700	0	7	WALL MOUNTED TOPO SCONCE, BASALT OPAL GLASS WITH WOOD AND CEMENT COMPOSITE, MEDIUM 12", TRIAC DIMMING	

REMARKS:
1. VERIFY MOUNTING, NUMBER OF FACES AND ARROW CONFIGURATION WITH PLANS PRIOR TO ORDERING FIXTURES.
2. MAKE ALL CONNECTIONS AND INSTALL LAMPS AS REQUIRED.

LIGHTING CONTROL SCHEDULE

TAG	DESCRIPTION	PANEL	CIRCUIT	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
1	ROOM CONTROLLER, 3-RELAY, 0-1V DIMMING	A	27	OWNER	GC	LEGRAND	LMRC-211	PROVIDE CABLING BETWEEN THE CONTROL DEVICES AND ROOM CONTROLLER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2	ROOM CONTROLLER, 2-RELAY, 0-1V DIMMING	A	27	OWNER	GC	LEGRAND	LMRC-212	PROVIDE CABLING BETWEEN THE CONTROL DEVICES AND ROOM CONTROLLER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
A	0-10V RADIANT DIMMING SWITCH, WHITE	A	29	OWNER	GC	LEGRAND	RH4FBL3PW	
B	0-10V RADIANT DIMMING SWITCH, WHITE	A	29	OWNER	GC	LEGRAND	RH4FBL3PW	
C	0-10V DIMMING LOW-VOLTAGE SWITCH WIRED TO ROOM CONTROLLER, WHITE	A	27	OWNER	GC	LEGRAND	LMDM-101-W	PROVIDE CABLING BETWEEN THE CONTROL DEVICES AND ROOM CONTROLLER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
D	RADIENT DIMMING SWITCH, WHITE. 450W MAXIMUM LED LOAD	A	27	OWNER	GC	LEGRAND	RH703PTUW	
DL	MULTI-ZONE DIMMING OPEN LOOP PHOTOSENSOR WIRED TO ROOM CONTROLLER, WHITE	A		OWNER	GC	LEGRAND	LMLS-500	PROVIDE WITH CEILING MOUNT BRACKET. PROVIDE CABLING BETWEEN THE CONTROL DEVICES AND ROOM CONTROL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
H	SINGLE POLE, SINGLE THROW SWITCH, WHITE	A	27	OWNER	GC	LEGRAND	2623W	
K	DUAL TECHNOLOGY WALL SWITCH/OCCUPANCY SENSOR	A	27	OWNER	GC	LEGRAND	DSW-301-W	
M	DUAL TECHNOLOGY WALL SWITCH/OCCUPANCY SENSOR	A	27	OWNER	GC	LEGRAND	DSW-301-W	
N	SINGLE POLE, SINGLE THROW SWITCH, WHITE	A	29	OWNER	GC	LEGRAND	2623W	
OR1	SPRING-WOUND COUNTDOWN TIMER, 2-HOUR MAX	A		OWNER	GC	INTERMATIC	FF32H	
OR2	SPRING-WOUND COUNTDOWN TIMER, 2-HOUR MAX	A		OWNER	GC	INTERMATIC	FF32H	

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09/09/2025

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SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
B	04/11/2025	ADDENDUM B
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

ELECTRICAL SCHEDULES

E-300

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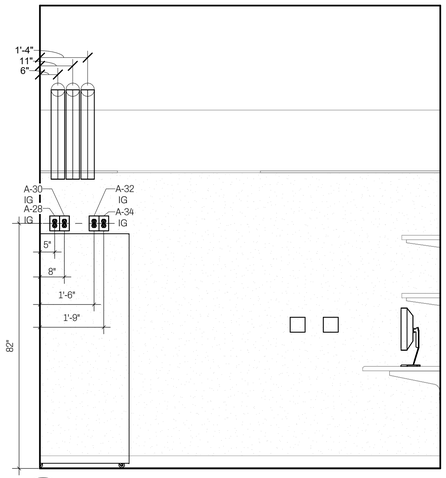
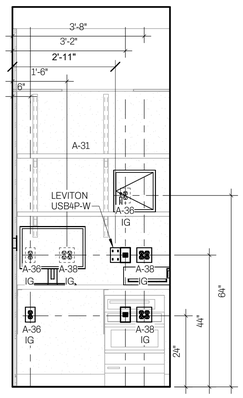


5 E-400 ELECTRICAL - OPERATIONS ROOM EAST
1/2" = 1'-0"



6 E-400 ELECTRICAL - OPERATIONS ROOM SOUTH
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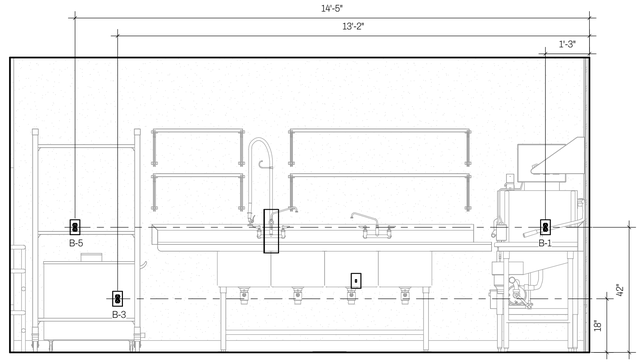

7 E-400 ELECTRICAL - WAREWASH NORTH
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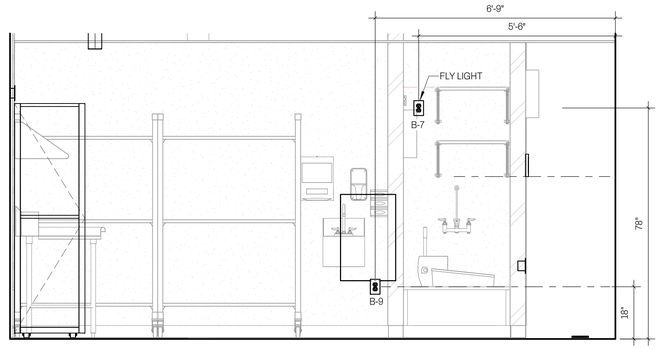

8 E-400 ELECTRICAL - WAREWASH SOUTH
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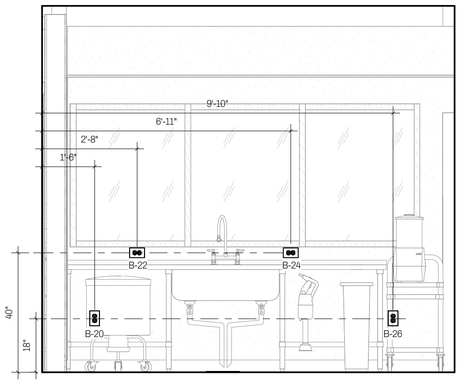

3 E-400 ELECTRICAL - COLD PREP
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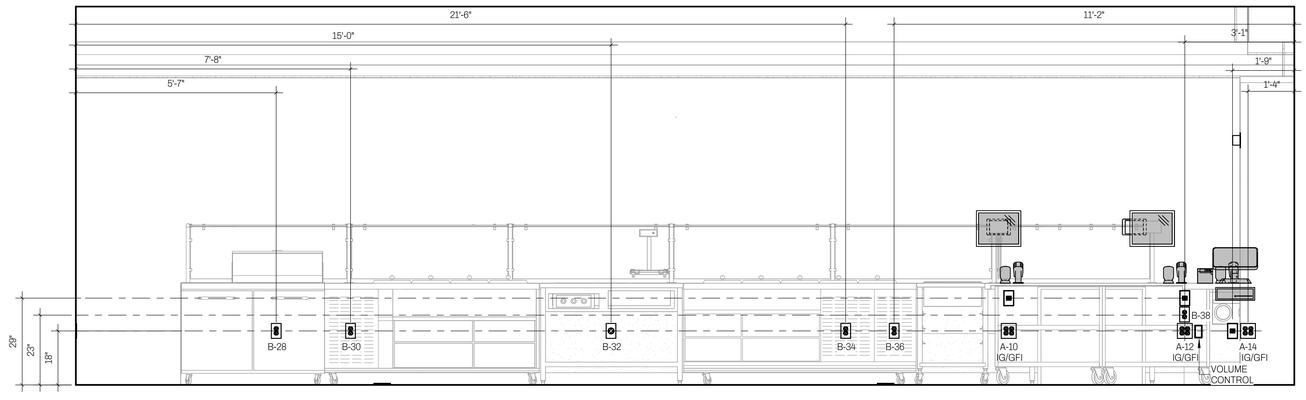

4 E-400 ELECTRICAL - SERVELINE
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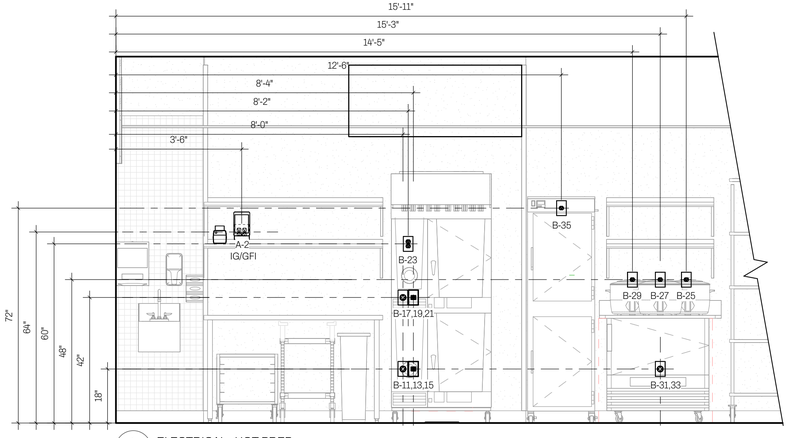

1 E-400 ELECTRICAL - HOT PREP
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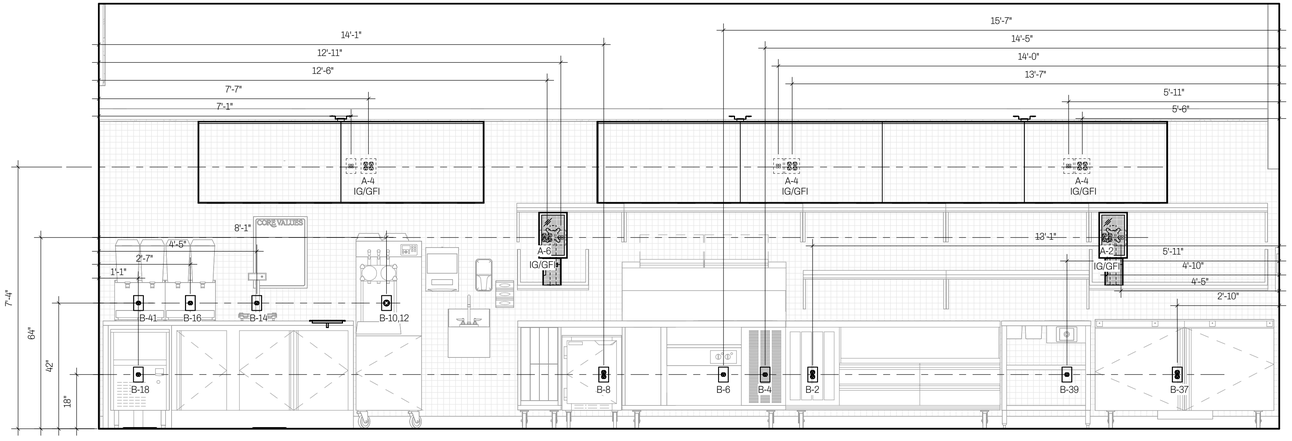

2 E-400 ELECTRICAL - KO OLO LINE
1/2" = 1'-0"

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SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
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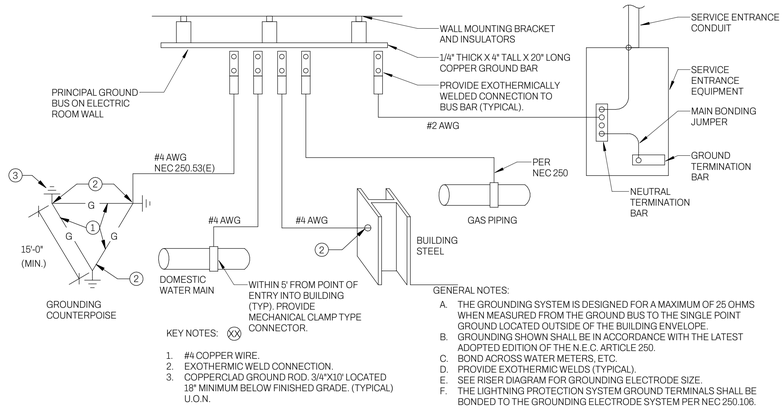
3

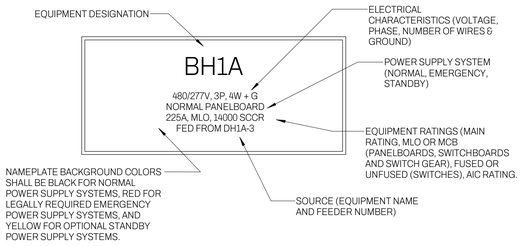
ELECTRICAL ELEVATIONS

3

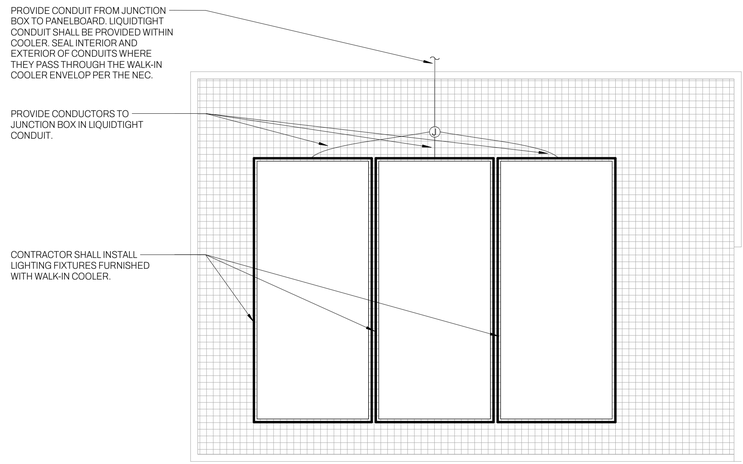
E-400



3 E-401 TYPICAL GROUNDING SYSTEM FOR SERVICE ENTRANCE1
NOT TO SCALE



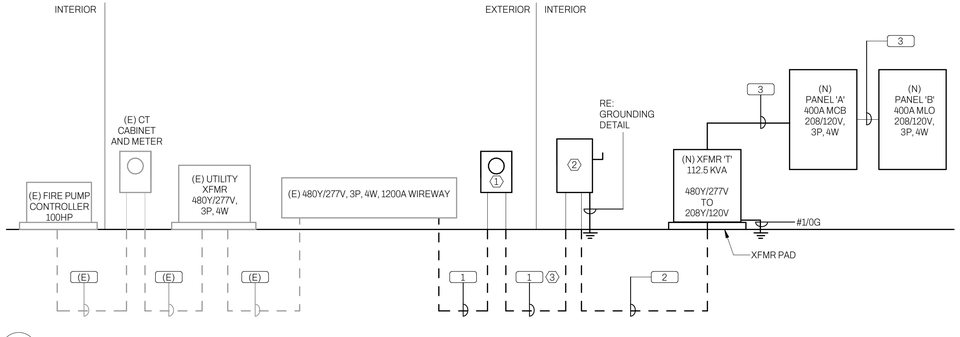
4 E-401 EQUIPMENT NAMEPLATE DETAIL1
NOT TO SCALE



5 E-401 WALK-IN COOLER DOOR LIGHT DETAIL
NOT TO SCALE

WIRE AND CONDUIT DESIGNATION SCHEDULE				FAULT CURRENT ANALYSIS
EQUIPMENT SERVED	FEEDER TAG	WIRE AMPACITY	DESCTRIPTION - MATERIAL	CALCULATED AVAILABLE FAULT CURRENT
(E) WIREWAY				42,000
METER/DISC.	1	200A	4#3/0, 3"C - CU	39,832
XFMR 'T'	2	200A	3#3/0, 1#6G, 2"C - CU	15,310
PANEL 'A'	3	400A	2 SETS: 4#3/0, 1#1/0G, 3-1/2"C - CU	<15,000
PANEL 'B'	3	400A	2 SETS: 4#3/0, 1#1/0G, 3-1/2"C - CU	<15,000

NOTES:
1. SOME CONDUCTOR AMPACITIES MAY HAVE BEEN INCREASED DUE TO VOLTAGE DROP.
2. EQUIPMENT SHALL BE RATED AT NEXT STANDARD AIC RATING.



1 E-401 RISER DIAGRAM
NOT TO SCALE

GENERAL NOTES

A. PRIOR TO FINAL ORDERING OF PANELBOARDS, CIRCUIT BREAKERS, AND ALL ASSOCIATED EQUIPMENT, THE CONTRACTOR SHALL ARRANGE FOR AND PROVIDE TO THE ELECTRICAL ENGINEER OF RECORD VIA THE ARCHITECT A LETTER FROM THE LOCAL POWER COMPANY ON THEIR LETTERHEAD STATING THE ACTUAL SHORT CIRCUIT FAULT CURRENT AVAILABLE AT THE SECONDARY SIDE OF THE UTILITY COMPANY TRANSFORMER. INFORMATION SHALL BE USED TO DETERMINE THE FINAL AIC RATINGS OF THE PANELBOARDS, METER CENTERS, MAIN DISCONNECT SWITCHES AND CIRCUIT BREAKERS.

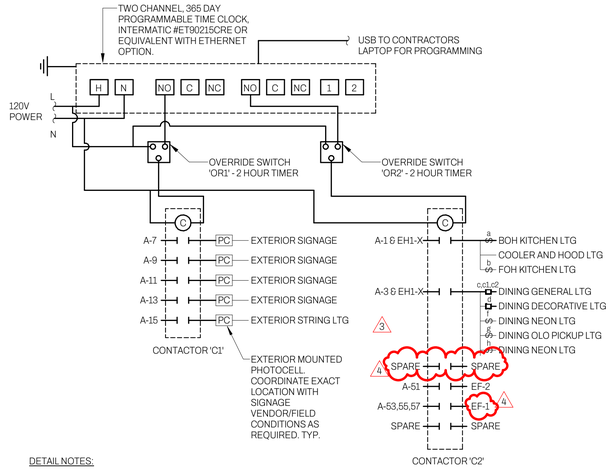
B. PROVIDE SERVICE ENTRANCE IDENTIFICATION TO COMPLY WITH NEC 230.2(E) AND THE REQUIREMENTS OF THE LOCAL AUTHORITY.

C. ALL ELECTRICAL EQUIPMENT LOCATED ON THE EXTERIOR OF THE BUILDINGS SHALL BE NEMA 3R RATED.

D. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTING OF CONDUCTORS PRIOR TO INSTALLATION.

KEY NOTES

1. NEW CT METER (PER UTILITY COMPANY REQUIREMENTS) SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL MAKE ALL CONNECTIONS REQUIRED FOR A COMPLETE SERVICE. VERIFY METER/CT REQUIREMENTS WITH UTILITY PRIOR TO START OF WORK.
2. NEW 480V 3P, 200A SERVICE ENTRANCE RATED FUSED DISCONNECT SWITCH, FUSED AT 200A. PROVIDE SERVICE ENTRANCE GROUNDING AS REQUIRED BY THE NEC.
3. ROUTE CONDUCTORS IN EXISTING 3" CONDUIT IN TENANT SPACE. EXTEND AS REQUIRED FOR LOCATION OF DISCONNECT.



DETAIL NOTES:

A. USE 30 AMP CONTACTORS EQUAL TO SQUARE D 8903L. PROVIDE VOLTAGE AS REQUIRED. SIZE CONTACTOR BASED ON THE NUMBER OF CIRCUITS TO BE CONTROLLED PLUS TWO ADDITIONAL SPARE CONTACTS. PROVIDE SHOP DRAWING SHOWING ACTUAL LAYOUT OF CONTACTOR FOR ENGINEERS APPROVAL.

B. SET LOGIC TO TIMER ON/TIMER OFF WITH PHOTOCELL OVER-RIDE.

C. ETHERNET/USB PROGRAMMING OPTION FOR E.C. TO USE ONLY FOR INITIAL SETUP AND ADJUSTMENT. DO NOT SHARE WITH TENANT UNLESS REQUESTED BY BUILDING OWNER. VERIFY SCHEDULE WITH OWNER.

D. PROVIDE WALL MOUNTED CABINET FOR TIME CLOCK AND CONTACTORS, MOUNT OVERRIDE SWITCHES ON HINGED DOOR OF CABINET.

2 E-401 LIGHTING CONTROL DETAIL
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 41016 ELECTRICAL
COA: P – 2368
09/09/2025

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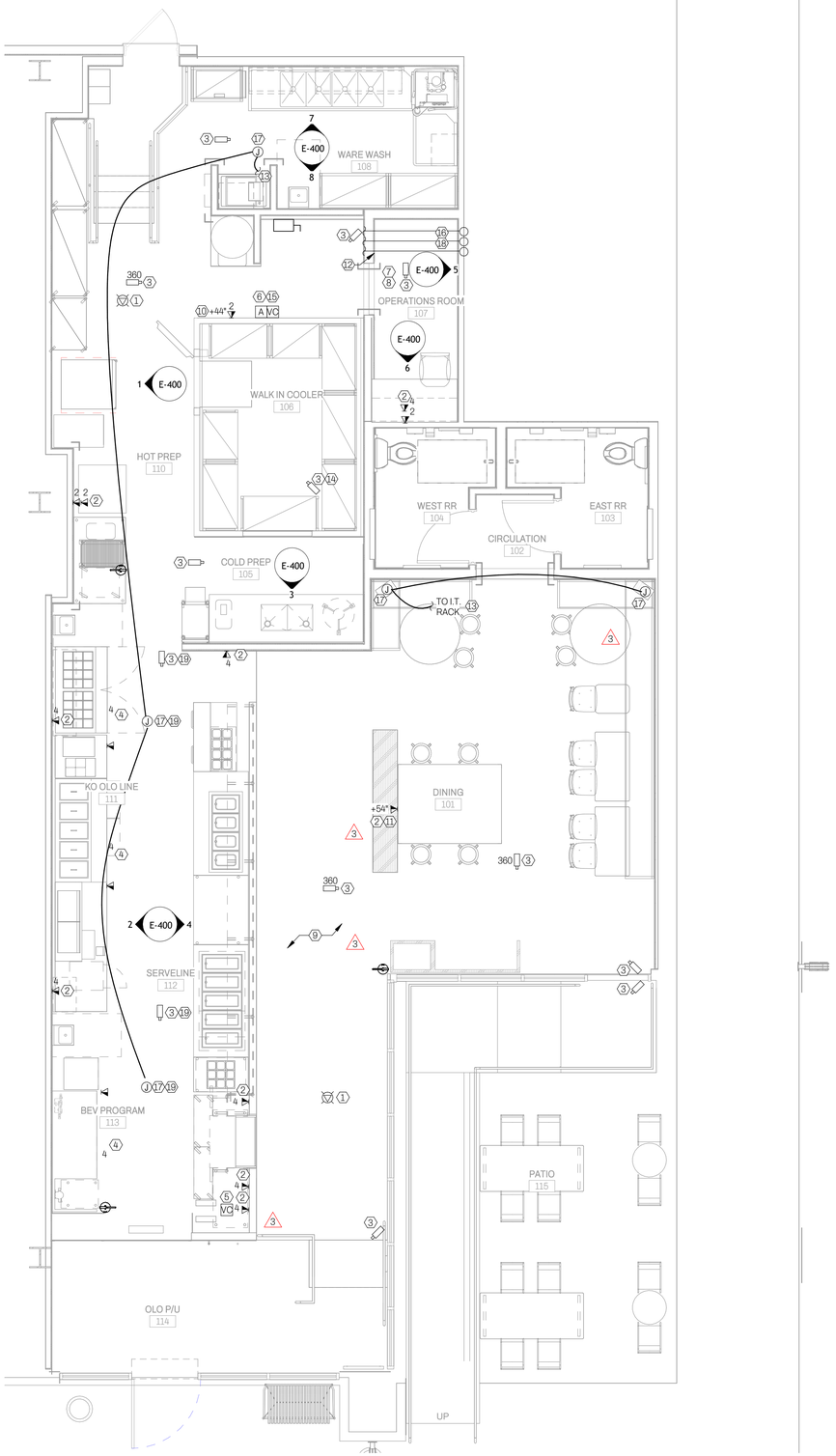
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

ELECTRICAL DETAILS

4 E-401



1 E-500 ELECTRICAL - FLOOR PLAN - LOW VOLTAGE
1/4" = 1'-0"

KEY NOTES

1. WIRELESS ACCESS POINT: REFER TO THE ARCHITECTURAL RCP FOR EXACT LOCATION. PROVIDE JUNCTION BOX AS REQUIRED PER THE OWNER'S INSTRUCTIONS. INSTALL OWNER-FURNISHED CABLING FROM IT RACK TO DEVICE LOCATION. LEAVE 2' OF SLACK AT THE WAP END, AND 15' OF SLACK AT THE IT RACK. SWEETGREEN'S VENDOR SHALL PROVIDE DEVICE AND MAKE FINAL CONNECTION. IN OPEN CEILING AREAS, CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND ROUTING SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER.
2. DATA JACK: PROVIDE A DEEP, DOUBLE-GANG JUNCTION BOX FOR DATA DEVICE. INSTALL OWNER-FURNISHED CABLING FROM IT RACK TO DEVICE LOCATION. PROVIDE 1" CONDUIT WITH LABELLED PULL STRINGS THAT RUN BACK TO ABOVE AV RACK FOR CABLING. LEAVE 2' OF SLACK AT THE DEVICE END, AND 15' OF SLACK AT THE IT RACK. SWEETGREEN'S VENDOR SHALL PROVIDE DEVICE AND MAKE FINAL CONNECTION. REFER TO NOTATION ON PLAN AND THE ELEVATIONS FOR JACK QUANTITY.
3. SECURITY CAMERA: REFER TO THE ARCHITECTURAL RCP FOR EXACT LOCATION. PROVIDE JUNCTION BOX AS REQUIRED PER THE OWNER'S INSTRUCTIONS. INSTALL OWNER-FURNISHED CABLING FROM THE IT RACK TO DEVICE LOCATION. PROVIDE 3/4" CONDUIT WITH LABELLED PULL STRINGS THAT RUN BACK TO ABOVE AV RACK FOR CABLING. LEAVE 2' OF SLACK AT THE DEVICE END, AND 15' OF SLACK AT THE IT RACK. GC TO TAPE AND MUD WIRE PENETRATION LOCATIONS IN GYPSUM BOARD CEILINGS. SEE ARCHITECTURAL RCP FOR EXACT CAMERA LOCATIONS. SWEETGREEN'S VENDOR SHALL PROVIDE DEVICE AND MAKE FINAL CONNECTION. IN OPEN CEILING AREAS, CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND ROUTING SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER.
4. DATA FOR DIGITAL MENU BOARDS IS TO BE MOUNTED TO THE MENU BOARD SUPPORT FRAME AND THE WIRING IS TO BE ROUTED THROUGH THE LEGS FOR THE DISPLAY MOUNTED BACK TO THE AV RACK. PROVIDE 1-1/4" CONDUIT FOR THE RUN. GC SHALL INSTALL CONDUIT INSIDE MOUNTING COLUMN TO SEPARATE HIGH AND LOW VOLTAGE CABLES. COORDINATE THE LOCATION AND MOUNTING HEIGHT WITH THE DISPLAY VENDOR PRIOR TO ROUGH-IN.
5. VOLUME CONTROL: COORDINATE BOX REQUIREMENTS WITH SWEETGREEN'S VENDOR PRIOR TO ROUGH-IN AND PROVIDE BOX. INSTALL OWNER-FURNISHED CABLING. LEAVE 2' OF SLACK AT THE DEVICE END, AND 15' OF SLACK AT THE IT RACK. REFER TO SWEETGREEN'S VENDOR DRAWINGS FOR MORE INFORMATION. SWEETGREEN'S VENDOR SHALL PROVIDE DEVICE AND MAKE FINAL CONNECTION.
6. IPOD JACK: COORDINATE BOX REQUIREMENTS WITH SWEETGREEN'S VENDOR PRIOR TO ROUGH-IN AND PROVIDE BOX. INSTALL OWNER-FURNISHED CABLING FROM THE IT RACK TO DEVICE LOCATION. LEAVE 2' OF SLACK AT THE AUDIO JACK END, AND 15' OF SLACK AT THE IT RACK. REFER TO SWEETGREEN'S VENDOR DRAWINGS FOR MORE INFORMATION. SWEETGREEN'S VENDOR SHALL PROVIDE DEVICE AND MAKE FINAL CONNECTION.
7. FIELD VERIFY LOCATION AND EXISTENCE OF AN EMT TENANT TELECO/DATA SERVICE CONDUIT TERMINATED IN LEASE SPACE. IF SUCH A CONDUIT DOES NOT EXIST THEN PROVIDE AND INSTALL A 1" EMT TELEPHONE/DATA SERVICE CONDUIT WITH PULLSTRING ROUTED FROM THE BUILDING TELEPHONE DEMARK TO AN ACCESSIBLE LOCATION ABOVE THE NEW TENANT COMMUNICATIONS SHELF. COORDINATE ALL TELEPHONE SERVICE ENTRANCE ISSUES WITH THE SERVICE PROVIDER.
8. COORDINATE REQUIREMENTS OF DATA JACK AND CABLING WITH SECURITY SYSTEM INSTALLER.
9. LOW VOLTAGE CABLING THROUGHOUT SHALL BE SUPPORTED WITH J-HOOKS OR ROUTED THROUGH FRAMING. WHERE CABLING PASSES THROUGH FRAMING, GROMMETS SHALL BE PROVIDED TO PROTECT CABLING. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE 3/4" CONDUIT FROM THE ALARM PANEL LOCATION IN THE OFFICE TO A JUNCTION BOX FOR THE SECURITY KEYPAD. COORDINATE EXACT LOCATION AND ALL OTHER REQUIREMENTS WITH THE SECURITY VENDOR AS REQUIRED. SWEETGREEN'S SECURITY VENDOR SHALL FURNISH AND INSTALL THE KEYPAD AND ASSOCIATED CABLING.
11. DATA CONNECTION FOR LOCAL LIST. PROVIDE DATA DEVICE CONCEALED BEHIND THE LOCAL LIST BOARD. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION.
12. THREE 3" CONDUITS STUBBED UP THROUGH THE OPERATIONS ROOM CEILING FOR PASS-THROUGH OF LOW-VOLTAGE CABLING. PROVIDE BUSHINGS ON EITHER END. CONDUIT SHALL BE HELD TIGHT TO WALL, CENTERED BEHIND THE IT RACK. TERMINATE CONDUIT 18" ABOVE THE TOP OF THE IT RACK. REFER TO THE ELEVATION ON SHEET E-400 FOR MORE INFORMATION.
13. INSTALL THE OWNER-FURNISHED CABLING BETWEEN THE IT RACK AND THE SPEAKER. LEAVE 2' OF SLACK AT THE SPEAKER AND 15' OF SLACK AT THE IT RACK. SWEETGREEN'S VENDOR SHALL PROVIDE DEVICE AND MAKE FINAL CONNECTION. REFER TO THE SPEAKER VENDOR DRAWINGS FOR EXACT ROUTING.
14. ONCE CABLING HAS BEEN INSTALLED, SEAL ALL CONDUITS THAT PASS THROUGH THE BUILDING STRUCTURE FROM THE OUTSIDE, OR WHERE THEY PASS THROUGH THE COOLER ENVELOPE. SEALANTS SHALL BE IDENTIFIED FOR USE WITH CABLE INSULATION, CONDUCTOR INSULATION OR OTHER COMPONENTS.
15. MASTER VOLUME CONTROL: COORDINATE BOX REQUIREMENTS WITH SWEETGREEN'S VENDOR PRIOR TO ROUGH-IN AND PROVIDE BOX. INSTALL OWNER-FURNISHED CABLING FROM THE IT RACK TO THE DEVICE LOCATION. LEAVE 2' OF SLACK AT THE MASTER VOLUME CONTROL END, AND 15' OF SLACK AT THE IT RACK. REFER TO SWEETGREEN'S VENDOR DRAWINGS FOR MORE INFORMATION. SWEETGREEN'S VENDOR SHALL PROVIDE DEVICE AND MAKE FINAL CONNECTION.
16. INSTALL TWO 50' COILS OF CAT6 CABLING ABOVE THE CEILING ABOVE THE IT RACK AND EXTEND THROUGH THE 4" CONDUIT CABLING SHALL BE OWNER-FURNISHED AND TERMINATED BY SWEETGREEN'S VENDOR.
17. SPEAKER: REFER TO THE ARCHITECTURAL RCP FOR EXACT LOCATION. REFER TO THE ARCHITECTURAL RCP FOR EXACT LOCATION. INSTALL OWNER-FURNISHED CABLING. REFER TO THE SPEAKER VENDOR DRAWINGS FOR EXACT ROUTING AND MORE INFORMATION.
18. PROVIDE 1#6 GREEN CU CONDUCTOR AND TERMINATE TO THE BUILDING GROUND. ROUTE CONDUCTOR TO AV RACK TO BE TERMINATED BY IT INSTALLER.
19. CAMERAS AND SPEAKERS SHALL BE INSTALLED AT 11'. INSTALL PENDANT AS REQUIRED TO ENSURE CAMERA IS AT THE CORRECT HEIGHT INDEPENDANT OF CEILING HEIGHT.

GENERAL NOTES

A. THIS DRAWING SHALL BE USED FOR BIDDING PURPOSES ONLY. REFER TO SUCCESSFUL FOOD SERVICE EQUIPMENT SUPPLIER ROUGH-IN DRAWINGS FOR EXACT LOCATION AND WIRING REQUIREMENTS.

B. COORDINATE WIRING REQUIREMENTS AND CIRCUIT BREAKER SIZES WITH ACTUAL EQUIPMENT PURCHASED. ADJUST SIZES OF COMPONENTS AS REQUIRED PRIOR TO INSTALLATION.

C. SEE DETAILS ON FOOD SERVICE DRAWINGS FOR ALL WIRING DEVICES INSTALLED ON EQUIPMENT.

D. HARDWIRED CONNECTIONS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT.

E. REFER TO ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

F. SEE GENERAL NOTES ON KITCHEN EQUIPMENT DRAWINGS FOR LOW VOLTAGE CONTRACTOR SCOPE REQUIREMENTS.

G. GC SHALL PROVIDE PENETRATIONS FOR WIC SECURITY CAMERAS.

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COA: P – 2368
09/09/2025

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SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
B	04/11/2025	ADDENDUM B
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

3

ELECTRICAL LOW VOLTAGE PLAN

3 **E-500**

9/9/2025 5:21:47 PM

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFFF	AQUE FILM FORMING FOAM
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
B.G.	BELOW GRADE
C	CONDUIT
CLG	CEILING
CONT	CONTINUED
DN	DOWN
DWG	DRAWING
(E)	EXISTING
(ETR)	EXISTING TO REMAIN
EA	EACH
EOL	END-OF-LINE RESISTOR
EF	EXHAUST FAN
EQ	EQUIPMENT
EMT	ELECTRICAL METALLIC TUBING
EXP	EXPLOSION-PROOF RATED
FAS	FIRE ALARM SYSTEM
FD	FIRE DOOR
FLR	FLOOR
FO	FIBER OPTIC
FZ	FIRE ZONE
G	GROUND CONDUCTOR
HTR	HEATER
IDC	INITIATING DEVICE CIRCUIT(CONVENTIONAL)
IR	INFRARED
MC	METAL CLAD
MNS	MASS NOTIFICATION SYSTEM
NAC	NOTIFICATION APPLIANCE CIRCUIT (AUDIBLE OR VISUAL)
NTS	NOT TO SCALE
O.C.	ON CENTER
PR	PAIR
PVC	POLYVINYL CHLORIDE CONDUIT
QTY	QUANTITY
RM	ROOM
SH	SHIELD OR SHIELDED
SLC	SIGNALING LINE CIRCUIT
SPD	SURGE PROTECTIVE DEVICE (ADDRESSABLE)
TB	TRANSITION BUILDING
TW	TWISTED
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
VEWSD	VERY EARLY WARNING SMOKE DETECTION
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
W/O	WITHOUT
WCH	WALL MOUNTED CONNECTOR HOUSING
WP	WEATHERPROOF

FIRE ALARM SYMBOL LEGEND

- F — MANUAL PULL STATION
- F — HORN, WALL
- F — HORN, CEILING
- WALL MOUNT FIRE ALARM SPEAKER/STROBE COMBO DEVICE, AMBER LENS. X = NFPA 72 TABLE 18.5.4.3.1(A) CANDELA MINIMUM, IF OTHER THAN 15CD, TYP. WP = WEATHER PROOF
- CEILING MOUNT FIRE ALARM SPEAKER/STROBE COMBO DEVICE, AMBER LENS. X = NFPA 72 TABLE 18.5.4.3.1(B) CANDELA MINIMUM, IF GREATER THAN 15CD, TYP.
- WALL MOUNT STROBE DEVICE, AMBER LENS. X = NFPA 72 TABLE 18.5.4.3.1(A) CANDELA MINIMUM, IF GREATER THAN 15CD, TYP.
- CEILING MOUNT FIRE ALARM SPEAKER/STROBE COMBO DEVICE, AMBER LENS. X = NFPA 72 TABLE 18.5.4.3.1(B) CANDELA MINIMUM, IF GREATER THAN 15CD, TYP.
- REMOTE INDICATOR W/ TEST SWITCH, WALL
- REMOTE INDICATE W/ TEST SWITCH, CEILING
- SMOKE DETECTOR
- HEAT DETECTOR
- CARBON MONOXIDE DETECTOR
- BEAM DETECTOR T: TRANSMITTER R: RECEIVER
- COMBINATION DETECTOR (UP TO THREE)
- DUCT SMOKE DETECTOR
- FIRE/SMOKE DAMPER
- FIRE DAMPER
- DH — DOOR HOLDER
- DCL — DOOR CLOSER
- FIRE SERVICE PHONE
- XXX — ADDRESSIBLE MODULE
  - AIM: ADDRESSIBLE INPUT MODULE
  - AOM:ADDRESSIBLE OUTPUT CONTROL MODULE
  - AIO: ADDRESSIBLE INPUT/OUTPUT MODULE
- XXXX — FIRE ALARM CONTROL UNIT
  - EVAC: VOICE EVACUATION CONTROL PANEL
  - FAA: FIRE ALARM ANNUNCIATOR
  - FACP: FIRE ALARM CONTROL PANEL
  - FATC: FIRE ALARM TERMINAL CABINET
  - LOC: LOCAL OPERATING CONSOLE
  - NACP: NOTIFICATION APPLIANCE CIRCUIT PANEL
  - FAMN: FIRE ALARM MASS NOTIFICATION PANEL
- XX — SUPERVISORY OR INTERFACE DEVICE
  - PIV: POST INDICATOR VALVE SUPERVISORY
  - PS: PRESSURE SWITCH
  - R: NON-ADDRESSIBLE RELAY
- WF — WATER FLOW SWITCH
- VT — VALVE TAMPER SWITCH
- SPD — SURGE PROTECTIVE DEVICE
- NAC — NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY AND BATTERY W/ CHARGER

CIRCUITS

A - SLC - 2 - #18 AWG, COPPER

B - NAC - 2 - #14 AWG, COPPER, TWISTED AND SHIELDED

C - AUDIO - 2 - #16 AWG, COPPER, TWISTED AND SHIELDED

NOTE: ALL POWER LIMITED CONDUCTORS MUST BE FPL, FPLR, OR FPLP AND RED IN COLOR

GENERAL PLAN SYMBOLS

- PLAN REVISION NUMBER
- # / F# — DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
- # — KEYNOTE SYMBOL
- CONTINUATION SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- ROOM 001 — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT

FIRE PROTECTION SYMBOL LEGEND

- 2" — NOMINAL PIPE SIZE
- ABOVE GROUND PIPING
- BELOW GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE (WHEN APPLICABLE)
- (E) — EXISTING PIPE TO REMAIN
- PIPE TO BE DEMOLISHED
- PIPE DROP/RISE
- FP-W — WET FIRE SPRINKLER
- FP-D — DRY FIRE SPRINKLER
- FP-PA — PREACTION FIRE SPRINKLER
- F/W — FIRE & WATER SERVICE
- FP-O — FIRE SPRINKLER (OTHER)
- UPRIGHT SPRINKLER
- PENDENT SPRINKLER
- RECESSED SPRINKLER
- CONCEALED HEAD
- DRY UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER EXTENDED COVERAGE SPRINKLER
- 48"x18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER
- CHECK VALVE
- ALARM CHECK VALVE
- TAMPER DETECTION VALVE
- DRY PIPE VALVE
- INDICATING BUTTERFLY VALVE
- POST INDICATOR VALVE
- VALVE NONRISING STEM
- OS&Y VALVE
- PREACTION VALVE
- DELUGE VALVE
- THRUST BLOCK
- PIPE ANCHOR
- FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
- SIAMESE FIRE DEPARTMENT CONNECTION
- SINGLE FIRE DEPARTMENT CONNECTION
- RISER ASSEMBLY
- DOUBLE CHECK (OS&Y)
- DOUBLE CHECK (BUTTERFLY WITH TAMPER)
- REDUCED PRESSURE ZONE
- X — EQUIPMENT IDENTITY

GENERAL PLAN SYMBOLS

- PLAN REVISION NUMBER
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FIRE ALARM GENERAL NOTES

1. FOR FIRE ALARM SYSTEM LEGEND REFER TO THIS SHEET.
2. CONTRACTOR MUST PROVIDE ALL EQUIPMENT, LABOR, SUPPLIES AND EQUIPMENT NECESSARY TO DESIGN AND PROVIDE A COMPLETE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE APPLICABLE CODES REFERENCED HEREIN.
3. ALL STROBES SHALL BE SYNCHRONIZED THROUGHOUT THE BUILDING. STROBE PLACEMENT MUST BE DESIGNED PER NFPA 72.
4. ALL SLC AND IDC CONDUCTORS WILL BE A MINIMUM OF #14 AWG. ALL AUDIBLE NAC CONDUCTORS WILL BE A MINIMUM OF #14 AWG. ALL VISUAL NAC CONDUCTORS WILL BE A MINIMUM OF #12 AWG. INCREASE CONDUCTOR GAUGE ACCORDING TO VOLTAGE DROP CALCULATIONS THAT MUST BE SUBMITTED BY CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
5. ALL SYSTEM CONDUCTORS MUST BE ROUTED IN CONDUIT OF MINIMUM 3/4" SIZE. JUNCTION BOXES, COVER PLATES, AND CONDUIT IN FINISHED AREAS WILL BE PAINTED TO MATCH SURROUNDING FINISH UNLESS REQUESTED TO BE OTHERWISE BY OWNER.
6. COORDINATE LOCATION OF NOTIFICATION APPLIANCES WITH OTHER DEVICES (HVAC, PROCESS MECHANICAL, ETC) BUT MAINTAIN ADEQUATE SPACE AND QUANTITY TO MEET NFPA SETTINGS AS NECESSARY TO MEET 72 REQUIREMENTS.
7. THE SYSTEM LAYOUT SHOWS THE INTENT OF THE COVERAGE AND IS SHOWN IN SUGGESTED LOCATIONS. FINAL QUANTITY, LAYOUT AND COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR. FOR ADDITIONAL REQUIREMENTS SEE SECTION 283100 FIRE ALARM SPECIFICATIONS.
8. ROUGH-IN INSTALLATION OF CONDUITS AND BACK BOXES MAY BE BY ELECTRICAL CONTRACTOR WITH INSTALLATION AND TERMINATION OF CONDUCTORS AND DEVICES BY NICET CERTIFIED FIRE ALARM INSTALLERS.
9. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE DETAILS OF WORK. VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE OWNER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
10. ALL ELECTRICAL POWER MUST BE SUPPLIED FROM A DEDICATED CIRCUIT PANEL CONNECTED AHEAD OF ALL OTHER ELECTRICAL PANELS. ALL CIRCUIT BREAKERS MUST BE RED, CLEARLY LABELED AND LOCKABLE. IF MORE THAN TWO CIRCUITS ARE REQUIRED FOR THE FIRE ALARM SYSTEM, THE CIRCUITS MUST BE ON A DEDICATED CIRCUIT BREAKER LOCATED UPSTREAM OF THE OTHER 120 VAC PANELS IN THE BUILDING BUT DOWN STREAM OF THE MAIN BUILDING BREAKER.

DEFERRED SUBMISSION

THE FIRE ALARM DRAWINGS AND SPECIFICATIONS ARE PERFORMANCE LEVEL. THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL TO THE AHJ SHOP DRAWINGS AND CALCULATIONS INDICATING THE SYSTEM LAYOUT. THE DESIGN PROFESSIONAL SHALL REVIEW THE SHOP DRAWINGS AND CALCULATIONS PRIOR TO THE DEFERRED SUBMISSION TO THE AHJ AND PROVIDE NOTATION ON THE DRAWINGS INDICATING THEY WERE REVIEWED BY THE DESIGN PROFESSIONAL. SUBMIT REVIEWED DRAWINGS PRIOR TO INSTALLATION.

FIRE PROTECTION GENERAL NOTES

A. FIRE SUPPRESSION DRAWINGS SHOW A DIAGRAMMATIC SYSTEM TO INCORPORATE MAJOR ELEMENTS FOR THE CONDITIONAL APPROVAL PRIOR TO THE FINAL DESIGN AND SUBMISSION PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL LAYOUT, DESIGN, CALCULATIONS. SUBMIT DESIGN, CALCULATIONS AND PROPOSED EQUIPMENT TO THE GOVERNMENT FOR APPROVAL.

B. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS.

C. DRAWINGS INDICATE DESIGN INTENT AND GENERAL ROUTING OF FIRE, HEF AND SPRINKLER PIPING. PROVIDE ADDITIONAL OFFSETS, FITTINGS, AND ADDITIONAL SPRINKLER HEADS TO MEET CODE REQUIREMENTS, ETC. COORDINATE PIPING LAYOUT WITH STRUCTURAL, DUCTWORK, PIPING, CONDUIT, ETC.

D. COORDINATE WITH OTHER TRADES, VERIFY DIMENSIONS, CONDITIONS AND LAYOUT AT JOB SITE PRIOR TO FABRICATION OF MATERIAL AND PROVIDE ADDITIONAL MATERIAL OR MODIFICATIONS TO FURNISH A COMPLETE AND OPERABLE SPRINKLER SYSTEM TO MEET THE REQUIRED CODES.

E. SPRINKLER PIPING MUST BE SIZED USING HYDRAULIC CALCULATIONS. DENSITY AND AREA OF APPLICATION MUST BE PER FIRE PROTECTION REQUIREMENTS TABLE ON THIS DRAWING. SPRINKLER SYSTEM VELOCITY MUST NOT EXCEED 20 FEET PER SECOND.

F. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND ALL CITY OF CHARLOTTE REQUIREMENTS.

G. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS. FIRE STOPPING MUST BE OF A U.L. LISTED AND/OR FM APPROVED ASSEMBLY.

H. MEANS OF HANGING AND HANGER SPACING SHALL BE PER NFPA 13, AND COORDINATE WITH BUILDING STRUCTURE.

I. CONTROL VALVES AND FLOW SWITCHES MUST BE ELECTRONICALLY SUPERVISED AND MONITORED BY THE FIRE DEPARTMENT AND/OR CENTRAL RECEIVING STATION.

J. CONTROL, DRAIN AND TEST CONNECTION VALVES MUST BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS. THE SIGN MUST BE SECURED WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.

K. SUBMIT DESIGN AND LAYOUT OF SPRINKLER SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATION 210500 FIRE PROTECTION SYSTEMS. SUBMIT COMPLETE SHOP DRAWINGS, MATERIAL DATA, HYDRAULIC CALCULATIONS, AND FLOW TEST RESULTS TO CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING FABRICATION AND INSTALLATION.

L. NO SPRINKLER PIPING WILL BE INSTALLED PASSING THROUGH STAIRS, ELECTRICAL OR TELECOMMUNICATION ROOMS OR OVER ELECTRICAL PANELS/EQUIPMENT. EQUIPMENT, PIPING, DUCTWORK, MACHINERY, ETC., THAT DOES NOT SERVE THE STAIRS, ELECTRICAL OR TELECOMMUNICATIONS ROOM WILL NOT BE INSTALLED ABOVE, BELOW (I.E. IN OR UNDER SLAB) OR ENTER OR PASS THRU THIS SPACE. ONLY DEDICATED BRANCH SPRINKLER PIPING WILL BE ALLOWED WITHIN EACH OF THE SPACES INDICATED ABOVE OR SIDEWALL SPRINKLER HEADS MUST BE USED. COORDINATE THE LOCATION OF PIPING WITH ELECTRICAL OR EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.

M. PENDANT SPRINKLER HEADS MUST BE INSTALLED ON RETURN BENDS.

N. PROVIDE A MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF EQUIPMENT AND 6" BEHIND THE EQUIPMENT (IE CONTROL VALVES, FIRE PUMP, ETC).

O. MECHANICAL COUPLINGS, GASKETS AND FITTINGS MUST BE FROM THE SAME MANUFACTURER.

P. SPRINKLER HEADS 7 FOOT OR LESS ABOVE THE FLOOR MUST HAVE APPROVED HEADGUARDS.

Q. SPRINKLER PIPING SHALL BE PAINTED RED. INSTALL LABELS & FLOW ARROWS AFTER PAINT IS DRY.

R. MATERIALS MUST BE U.L. LISTED AND/OR FM APPROVED.

S. SEISMIC DESIGN CATEGORY 'B'. NO BRACING REQUIRED

DEFERRED SUBMISSION

THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS ARE PERFORMANCE LEVEL. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL TO THE LOCAL AHJ THREE (3) SETS OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS INDICATING THE SPRINKLER SYSTEM LAYOUT INCLUDING FINAL HEAD LOCATIONS. THE DESIGN PROFESSIONAL SHALL REVIEW THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PRIOR TO THE DEFERRED SUBMISSION TO THE AHJ AND PROVIDE NOTATION ON THE DRAWINGS INDICATING THEY WERE REVIEWED BY THE DESIGN PROFESSIONAL. SUBMIT REVIEWED DRAWINGS AND CALCULATIONS WITH THE REQUIRED APPLICATION FEE PRIOR TO INSTALLATION.

WATER SUPPLY INFORMATION

WATER SUPPLY FOR THE BUILDING FIRE PROTECTION SYSTEMS IS PROVIDED BY THE EXISTING FIRE PUMP SYSTEM. IT IS ASSUMED THAT THE EXISTING FIRE PROTECTION WATER SUPPLY AND EXISTING FIRE PUMP SYSTEM IS ADEQUATE.

- EXISTING FIRE PUMP 100% RATING: 750 GPM AT 175 PSI

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN UPDATED FIRE PUMP PERFORMANCE CURVE TEST IN ACCORDANCE WITH NFPA 25 AND LOCAL AHJ REQUIREMENTS.

WET PIPE INSTALLATION REQUIREMENTS

LINE INSTALLATION FOR DRAINAGE:	INSTALLED LEVEL
MAIN INSTALLATION FOR DRAINAGE:	INSTALLED LEVEL
TRAPPED PIPE 0-5 GALLONS:	3/4" PLUG OR REMOVAL OF (1) PENDENT SPRINKLER
TRAPPED PIPE 5-50 GALLONS:	3/4" VALVE WITH PLUG
TRAPPED PIPE 50+ GALLONS:	1" VALVE PIPE TO ACCESSIBLE LOCATION

FIRE SUPPRESSION DESIGN REQUIREMENTS

HAZARD	APPLICATION AREA	OCCUPANCY HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/SF)	DISCHARGE TIME	SPRINKLER TYPE	COVERAGE PER SPINKLER	HOSE STREAM	DESIGN AREA*	SPRINKLER TEMP RATING	MAX CEILING HEIGHT	SPACE BETWEEN SPRINKLERS	MAX FLOOR AREA PER SYSTEM/RISER	K-FACTOR
LH	RESTROOMS, OFFICES, DINING ROOM	LIGHT HAZARD	0.1	60 MIN	QUICK RESPONSE TYPE	225 SF	100.0 GPM	1500 SF	PER NFPA 13 BASED ON EXPECTED HIGHEST TEMPERATURE	30'-0"	15'-0"	52,000 SF	5.6
OH1	MECHANICAL ROOM, KITCHEN AREA	ORDINARY HAZARD, GROUP 1	0.15	60 MIN	QUICK RESPONSE TYPE	130 SF	250.0 GPM	1500 SF	PER NFPA 13 BASED ON EXPECTED HIGHEST TEMPERATURE	30'-0"	15'-0"	52,000 SF	8.0
OH2	DEDICATED STORAGE ROOM	ORDINARY HAZARD, GROUP 2	0.2	60 MIN	QUICK RESPONSE TYPE	130 SF	250.0 GPM	1500 SF	PER NFPA 13 BASED ON EXPECTED HIGHEST TEMPERATURE	30'-0"	15'-0"	52,000 SF	8.0

FIRE ALARM & PROTECTION SHEET INDEX

F-001	FIRE ALARM & PROTECTION LEGEND, SYMBOLS, & ABBREVIATIONS
F-002	FIRE ALARM SPECIFICATIONS
F-003	FIRE ALARM SPECIFICATIONS
F-004	FIRE PROTECTION SPECIFICATIONS
F-100	FIRE ALARM & PROTECTION DEMO PLAN
F-101	FIRE ALARM & PROTECTION OVERALL PLAN
F-401	FIRE ALARM DETAILS

CODES AND STANDARDS

NORTH CAROLINA BUILDING CODE:

- 2018 NORTH CAROLINA STATE BUILDING CODE: BUILDING CODE
- 2018 NORTH CAROLINA STATE BUILDING CODE: FIRE PREVENTION CODE

NATIONAL FIRE PROTECTION ASSOCIATION:

- NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION
- NFPA 25 - STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2014 EDITION
- NFPA 70 - NATIONAL ELECTRIC CODE (NEC), 2020 EDITION
- NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE, 2013 EDITION
- NFPA 291 - RECOMMENDED PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS, 2013 EDITION

sg

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TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT

FIRE ALARM & PROTECTION LEGEND, SYMBOLS, & ABBREVIATIONS

F-001

7/29/2025 1:40:12 AM

SECTION 283100 - FIRE ALARM SPECIFICATIONS

PART 1 - GENERAL

1.1 STIPULATIONS
A. GENERAL PROVISIONS OF THE CONTRACT DOCUMENTS INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATIONS SECTIONS APPLY TO ALL WORK IN THIS SECTION.

1.2 WORK INCLUDED
A. MODIFY EXISTING FIRE ALARM SYSTEM FOR NEW RESTAURANT TENANT AREA AS DESCRIBED HEREIN AND AS SHOWN ON THE DRAWINGS. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATIONS INCLUDES THE FURNISHING OF ALL EQUIPMENT, LABOR, MATERIALS, AND PERFORMANCE OF ALL OPERATIONS, INCLUDING FIELD PROGRAMMING OF THE EXISTING SYSTEM COMPONENTSASSOCIATED WITH THE INSTALLATION. MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM, DEVICES, WIRING, AND EXPOSED CONDUIT IS ALSO INCLUDED.
B. PHASING. CONTRACTOR WILL BE REQUIRED TO PHASE THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM COMPONENTS. THIS WILL REQUIRE THAT EITHER THE NEW AND OLD SYSTEM COMPONENTS WORK IN UNISON
C. PROVIDE ALARM INITIATING DEVICES, ALARM INDICATING APPLIANCES, AND ALL REQUIRED CONNECTIONS AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH NFPA 72. THE DETECTION SYSTEM SHALL PROVIDE SMOKE AND HEAT DETECTORS, MANUAL PULL STATIONS AND DUCT DETECTORS IN AREAS AS REQUIRED BY APPLICABLE CODE. PROVIDE AUDIBLE/VISIBLE NOTIFICATION THROUGHOUT.
D. PROVIDE ALL INTERFACE MODULES NECESSARY TO INTERCONNECT THE BUILDING FAP WITH THE AUTOMATIC SUPPRESSION SYSTEMS, HVAC FAN AND DAMPER CONTROLS, AND OTHER REQUIRED INITIATING OR CONTROL OUTPUT DEVICES AS APPLICABLE. COORDINATE ALL LOCATIONS OF REQUIRED INTERCONNECTIONS WITH THE RESPECTIVE TRADE CONTRACTORS.
E. THE SYSTEM SHALL INCLUDE ALL WIRING, RACEWAYS, PULL BOXES, TERMINAL CABINETS, OUTLET AND MOUNTING BOXES, CONTROL EQUIPMENT, ALARM AND SUPERVISORY SIGNAL INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, AND ALL OTHER MANUFACTURER PROPRIETARY EQUIPMENT SUCH AS SIGNALING LINE CIRCUIT (SLC) MODULES, NOTIFICATION APPLIANCE CIRCUIT MODULES, AND OTHER ACCESSORIES AND MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN THE BUILDING.
F. THE LAYOUT ON THE DRAWINGS IS DIAGRAMMATIC. SEVERAL NOTIFICATION APPLIANCE CIRCUIT (NAC) EXTENDER PANELS (AUXILIARY POWER SUPPLIES) ARE INDICATED. WHERE ADDITIONAL REMOTE FIRE ALARM CONTROL UNITS, NAC EXTENDER PANELS, OR SIMILAR FIRE ALARM RELATED EQUIPMENT ARE NEEDED, THEY SHALL BE PROVIDED AT A SUITABLE TERMINAL CABINET LOCATION. EACH REMOTE FIRE ALARM CONTROL UNIT SHALL BE POWERED FROM A WIRING RISER SPECIFICALLY FOR THAT USE OR FROM A LOCAL POWER PANEL. ALL FIRE ALARM POWER CIRCUITS SHALL BE DEDICATED. WHERE REMOTE FIRE CONTROL UNITS ARE PROVIDED, EQUIPMENT FOR NOTIFICATION APPLIANCES MAY BE LOCATED IN THE REMOTE FIRE ALARM CONTROL UNITS.

1.3 DEFINITIONS
A. WHEREVER MENTIONED IN THIS SPECIFICATION OR ON THE DRAWINGS, THE NOMENCLATURE, EQUIPMENT, DEVICES, APPLIANCES, AND FUNCTIONS SHALL BE AS DEFINED BY NFPA 72 OR AS FOLLOWS:
1. AUTHORITY HAVING JURISDICTION (AHJ) - FOR THE PURPOSE OF THESE DOCUMENTS THE TERM AHJ IS DEFINED AS ARE OTHER COMMONLY USED TERMS FOR PERSONNEL ASSOCIATED WITH REVIEW OR APPROVAL AS FOLLOWS:
A. AHJ - CITY OF CHARLOTTE
B. FIRE MARSHAL
C. OWNER
D. PROFESSIONAL - WOLF ENGINEERING & CONSULTANTS
E. CONSTRUCTION MANAGER (CM) - AGENT FOR THE OWNER THAT OVERSEES OR COORDINATES THE PROJECT DAILY.
F. INSURANCE CARRIER - AGENT FOR THE OWNER THAT PROVIDES INSURANCE COVERAGE FOR THE PROJECT.
2. TERMINAL CABINET - A STEEL CABINET WITH LOCKING, HINGE-MOUNTED DOOR IN WHICH TERMINAL STRIPS ARE SECURELY MOUNTED. MINIMUM SIZE IS 8-INCHES BY 8-INCHES (200 MM BY 200 MM).
3. FURNISH - TO SUPPLY THE STATED EQUIPMENT OR MATERIALS.
4. INSTALL - TO SET IN POSITION AND CONNECT OR ADJUST FOR USE.
5. PROVIDE - TO FURNISH AND INSTALL THE STATED EQUIPMENT OR MATERIALS.
6. CONTRACTOR - SHALL REFER TO THE FIRE ALARM/ELECTRICAL CONTRACTOR.
7. FIRE PROTECTION/SPRINKLER CONTRACTOR - SHALL REFER TO THE PERSON OR GROUPS RESPONSIBLE FOR PROVIDING THE SPRINKLER SYSTEM.

1.4 APPROVALS
A. THE CONTRACTOR MUST COMPLY WITH ALL LAWS, ORDINANCES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION (AHJ), INCLUDING CITY, COUNTY, STATE, FEDERAL, PUBLIC UTILITY, AND THE OWNER'S INSURANCE CARRIER.
B. BATTERY CALCULATIONS, PRODUCT DATA SHEETS, SHOP DRAWINGS AND ALL OTHER ASSOCIATED SUBMITTALS MUST BEAR THE STAMPS OF AND BE REVIEWED AND/OR APPROVED BY THE AHJ AND THE OWNER'S INSURANCE CARRIER. ANY AND ALL COMMENTS RECEIVED FROM THE AFOREMENTIONED REVIEWS, AND RESOLUTION THEREOF, SHALL BE SUBMITTED TO THE PROFESSIONAL FOR RECORD.
C. THE CONTRACTOR SHALL SUBMIT FULL AND COMPLETE SHOP DRAWINGS TO THE PROFESSIONAL FOR REVIEW AND OBTAIN A STAMP OF APPROVAL FROM THE PROFESSIONAL PRIOR TO INSTALLATION.

1.5 FIRE ALARM DESIGN
A. ALL NEW SYSTEM COMPONENTS SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM. THE SYSTEM SHALL OPERATE IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND AS REQUIRED BY APPLICABLE CODE. THE SYSTEM SHALL REMAIN IN THE ALARM MODE UNTIL ALL INITIATING DEVICES ARE RESET AND THE FAP IS MANUALLY RESET AND RESTORED TO NORMAL STATUS. THE SYSTEM SHALL PROVIDE THE FOLLOWING FUNCTIONS AND OPERATING FEATURES:
1. ALL FIRE ALARM SYSTEM CIRCUITS SHALL BE ELECTRICALLY SUPERVISED. PROVIDE CLASS B SIGNALING LINE CIRCUITS (SLC) AND CLASS B NOTIFICATION APPLIANCE CIRCUITS (NAC). PROVIDE SUPERVISION OF THE PRIMARY POWER SUPPLY, PRESENCE OF THE BATTERY, BATTERY VOLTAGE, AND PLACEMENT OF THE MODULES WITHIN THE PANEL.
2. AUTOMATIC RESPONSE FUNCTIONS SHALL BE ACCOMPLISHED BY THE FIRST DEVICE INITIATED. ALARM FUNCTIONS RESULTING FROM INITIATION BY THE FIRST DEVICES SHALL NOT BE ALTERED BY SUBSEQUENT ALARMS.
3. ALARM, SUPERVISORY AND TROUBLE SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO THE APPROVED SUPERVISORY SERVICE.
B. DETECTION INITIATION
1. ALARM VERIFICATION - FEATURE SHALL BE FIELD PROGRAMMABLE FOR ALL SMOKE DETECTORS IN ACCORDANCE WITH NFPA 72. CROSS-ZONING SHALL NOT BE PERMITTED AS A SUBSTITUTE FOR ALARM VERIFICATION.
2. DETECTOR SENSITIVITY CHECK/ADJUSTMENT - INDIVIDUAL SMOKE DETECTOR SENSITIVITY CHECKING AND ADJUSTING FOR ALARM CONDITION SHALL BE PROVIDED AT THE FAP. SAID SENSITIVITY CHECKING AND ADJUSTING SHALL MEET AND BE LISTED BY UL FOR THIS FUNCTION.
3. DETECTOR MAINTENANCE MONITORING - PROVIDE MONITORING OF SMOKE DETECTOR CHAMBERS FOR GRADUAL BUILDUP OF FOREIGN MATERIALS IN THE SENSING CHAMBER. WHEN THE SMOKE DETECTOR SENSES A HIGH LEVEL OF CONTAMINATION, THE CONTROL PANEL SHALL CAUSE A TROUBLE CONDITION AND INDICATE THE SPECIFIC DETECTOR LOCATION IN NEED OF MAINTENANCE.
4. AUTOMATIC DRIFT COMPENSATION - ALL SMOKE DETECTORS SHALL BE MONITORED FOR CHANGES IN SENSITIVITY RANGES AND AUTOMATICALLY ADJUST THE DETECTION RANGE UP OR DOWN TO COMPENSATE FOR ENVIRONMENTAL CHANGES OR DEGRADATION OF DETECTOR COMPONENTS.'

1.6 OVERVOLTAGE AND SURGE PROTECTION
A. SIGNALING LINE CIRCUIT SURGE PROTECTION. ALL COMMUNICATIONS EQUIPMENT SHALL BE PROTECTED AGAINST SURGES INDUCED ON ANY SLC. ALL CABLES AND CONDUCTORS, WHICH SERVE AS COMMUNICATIONS LINKS, SHALL HAVE SURGE PROTECTION CIRCUITS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
B. POWER SUPPLY CIRCUIT PROTECTION. THE 120 VAC POWER SUPPLY FOR THE FAP SHALL BE PROTECTED AGAINST SURGES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
C. FUSES SHALL NOT BE USED FOR SURGE PROTECTION.
D. WIRING EXTENDING OUTSIDE THE BUILDING, EITHER UNDERGROUND OR OVERHEAD, SHALL MEET THE REQUIREMENTS OF THE NEC, NFPA 72, AND THE MANUFACTURER WITH RESPECT TO LIGHTNING AND OTHER INDUCED SURGES. PROVIDE LOW VOLTAGE LINE PROTECTION AT THE WIRE ENTRY POINT TO THE BUILDING.

1.7 QUALITY ASSURANCE
A. CONTRACTOR:
1. "CONTRACTOR" IS DEFINED AS THE COMPANY AND AUTHORIZED REPRESENTATIVE THERETO THAT INSTALLS THE FIRE ALARM EQUIPMENT.
2. INSTALLATION SHALL BE ACCOMPLISHED BY A CONTRACTOR WITH A MINIMUM OF FIVE (5) YEARS EXPERIENCE IN THE INSTALLATION OF FIRE ALARM SYSTEMS. CONTRACTOR SHALL SHOW EVIDENCE OF CERTIFICATION OF AT LEAST 1 EMPLOYEE DIRECTLY RESPONSIBLE FOR THE WORK BY THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) AT LEVEL II, III, OR IV IN THE FIRE ALARM SYSTEMS SUBFIELD OF FIRE PROTECTION ENGINEERING TECHNOLOGY; OR, A REGISTERED ENGINEER WITH SIMILAR EXPERIENCE IN FIRE ALARM SYSTEM INSTALLATION.
3. IF SUCH A CERTIFIED INDIVIDUAL IS NOT EMPLOYED, ADEQUATE DOCUMENTATION SHALL BE PROVIDED TO SHOW COMPARABLE TRAINING AND EXPERIENCE OF AN EXISTING EMPLOYEE. AT A MINIMUM, COMPARABLE TRAINING AND EXPERIENCE SHALL CONSIST OF 5 YEARS OF PROGRESSIVE EXPERIENCE IN THE INSTALLATION AND DESIGN OF FIRE ALARM SYSTEMS OF SIMILAR SIZE AND COMPLEXITY TO THAT SPECIFIED HEREIN. ANY PROPOSED INSTALLER WHO CANNOT SHOW EVIDENCE OF SUCH QUALIFICATIONS MAY BE REJECTED. THE SERVICES OF A TECHNICIAN CERTIFIED BY THE CONTROL EQUIPMENT MANUFACTURER SHALL BE PROVIDED TO SUPERVISE INSTALLATION ADJUSTMENTS AND TESTS OF THE SYSTEM.
B. DISTRIBUTOR:
1. "DISTRIBUTOR" IS DEFINED AS THE COMPANY AND AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER THAT DISTRIBUTES AND DESIGNS THE FIRE ALARM SYSTEM AND ASSOCIATED EQUIPMENT PROVIDED BY THE MANUFACTURER AND INSTALLED BY THE CONTRACTOR.
2. THE DISTRIBUTOR SHALL SHOW EVIDENCE OF CERTIFICATION BY THE MANUFACTURER IN THE TECHNICAL SUPPORT OF THE SYSTEM INSTALLED UNDER THIS CONTRACT. DOCUMENTATION OF FACTORY MANUFACTURER TRAINING ON THE SYSTEM AND PRODUCTS BEING PROVIDED IS REQUIRED FOR AN INDIVIDUAL DIRECTLY ASSOCIATED WITH THE PROJECT.
3. THE DISTRIBUTOR SHALL SHOW EVIDENCE OF CERTIFICATION OF AT LEAST 1 EMPLOYEE BY THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) AT LEVEL III OR IV IN THE FIRE ALARM SYSTEMS SUBFIELD OF FIRE PROTECTION ENGINEERING TECHNOLOGY; OR A REGISTERED ENGINEER WITH SIMILAR EXPERIENCE IN FIRE ALARM SYSTEM DESIGN AND INSTALLATION.
4. IF SUCH A CERTIFIED INDIVIDUAL IS NOT EMPLOYED, ADEQUATE DOCUMENTATION SHALL BE PROVIDED TO SHOW COMPARABLE TRAINING AND EXPERIENCE OF AN EXISTING EMPLOYEE. AT A MINIMUM, COMPARABLE TRAINING AND EXPERIENCE SHALL CONSIST OF 5 YEARS OF PROGRESSIVE EXPERIENCE IN THE INSTALLATION AND DESIGN OF FIRE ALARM SYSTEMS OF SIMILAR SIZE AND COMPLEXITY TO THAT SPECIFIED HEREIN AND DEMONSTRATE EXPERIENCE WITH THE DESIGN AND INSTALLATION OF THE SYSTEMS BEING PROVIDED. ADDITIONALLY, PROVIDE DOCUMENTATION FOR THE REGISTERED PE OR NICET LEVEL PERSON THAT WILL REVIEW AND CERTIFY THE DESIGN.
C. MANUFACTURER AND EQUIPMENT:
1. "MANUFACTURER" IS DEFINED AS THE COMPANY AND AUTHORIZED REPRESENTATIVE THERETO THAT PRODUCES THE FIRE ALARM EQUIPMENT.
2. EACH ITEM OF THE FIRE ALARM SYSTEM SHALL BE LISTED AS A PRODUCT OF A SINGLE FIRE ALARM SYSTEM MANUFACTURER UNDER THE APPROPRIATE CATEGORY BY UNDERWRITERS LABORATORIES, INC. (UL), AND SHALL BEAR THE UL LABEL. ALL CONTROL EQUIPMENT IS RATED FOR 32 VOLTS DC AND THE UOJZ AS A SINGLE CONTROL UNIT. PARTIAL LISTING SHALL NOT BE ACCEPTABLE.
3. ALL DEVICES SHALL BE LISTED FOR USE WITH THE UOJZ LISTED CONTROL PANEL. ANY ASSOCIATED THIRD PARTY EQUIPMENT THAT IS NOT REQUIRED TO BE SPECIFICALLY LISTED FOR USE WITH THE CONTROL PANEL, SHALL BE CERTIFIED AS BEING ACCEPTABLE FOR USE WITH THE SPECIFIED SYSTEM BY THE MANUFACTURER.
4. TESTING SERVICES OR LABORATORIES.
A. PROVIDE FIRE ALARM AND DETECTION SYSTEM COMPONENTS THAT ARE UL LISTED AND FM APPROVED AND LABELED FOR THEIR INTENDED USE AND SERVICE. CONSTRUCT ALL FIRE ALARM AND FIRE DETECTION EQUIPMENT IN ACCORDANCE WITH THE LATEST EDITION OF PUBLICATIONS FROM UNDERWRITERS LABORATORIES (UL) AND FACTORY MUTUAL ENGINEERING CORPORATION (FM) SUCH AS:
1. UL 464 - AUDIBLE SIGNAL APPLIANCES
2. UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
3. UL 1971 - SIGNALING DEVICES FOR THE HEARING IMPAIRED
4. UL 1480- FIRE PROTECTIVE SERVICE

1.8 SUBMITTALS
A. REFER TO ANY FRONT END GENERAL PROJECT OR ELECTRICAL SPECIFICATIONS FOR BASIC INFORMATION RELATING TO SUBMITTAL REQUIREMENTS.
B. THE FIRE ALARM/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND EFFORTS ASSOCIATED WITH THE REQUIRED APPROVALS.
C. PRIOR TO INSTALLATION OF ANY MATERIALS AND/OR SYSTEM COMPONENTS, ALL FIRE ALARM SYSTEM SHOP DRAWINGS AND EQUIPMENT MUST BE APPROVED BY AND BEAR THE STAMP OF THE AHJ AND THE OWNER'S INSURANCE CARRIER AS APPLICABLE. PROVIDE SHOP DRAWINGS AS SPECIFIED IN IBC 907.1.2 TO THE AHJ ANY AND ALL COMMENTS RECEIVED FROM THESE REVIEWS SHALL BE SUBMITTED TO THE PROFESSIONAL. AFTER APPROVAL BY THE AFOREMENTIONED AGENCIES AND REVIEW BY THE DESIGN PROFESSIONAL, SUBMIT 1 COMPLETE RECORD SET OF DOCUMENTS BEARING THE AFOREMENTIONED AGENCIES APPROVAL TO THE OWNER AND ANOTHER TO THE PROFESSIONAL.
D. SUBMIT ALL SHOP DRAWINGS TO THE DESIGN PROFESSIONAL FOR REVIEW AND APPROVAL. SUBMITTALS ARE TO BE COMPLETE. PARTIAL SUBMITTALS SHALL NOT BE ACCEPTED EXCEPT AS FOLLOWS. INCLUDE IN THE FIRST SUBMITTAL A SCHEDULE INDICATING THE PACKAGING AND ESTIMATED DELIVERY DATE OF ALL REQUIRED SUBMITTALS. EXAMPLE: SUBMITTAL 1 (DATE) WILL INCLUDE: CONTRACTOR QUALIFICATIONS, PHASING PLAN AND CATALOG DATA. SUBMITTAL 2 (DATE) WILL INCLUDE: AHJ APPROVALS AND DRAWINGS AND CALCULATIONS. SUBMITTAL 3 (DATE) WILL INCLUDE: SYSTEM MESSAGES, TEST PLAN AND EXTENDED SERVICE AGREEMENT.
E. THE SUBMITTAL SHALL BE MADE AS A COMPLETE PACKAGE CONSISTING OF FIRE ALARM EQUIPMENT ONLY. THE SUBMITTAL SHALL NOT INCLUDE OTHER ELECTRICAL EQUIPMENT OR COMPONENTS NOT DIRECTLY RELATED TO THE FIRE ALARM SYSTEM INSTALLATION (E.G., SECURITY, SOUND SYSTEMS, POWER, ETC.) FOR APPROVAL WHERE OTHER EQUIPMENT OR COMPONENTS ARE AN INTEGRAL PART OF THE FIRE ALARM SYSTEM, THEY SHALL BE INDICATED AS SUCH BUT NOT INCLUDED WITH THE SUBMITTAL AND ONLY SHOW REQUIRED INTERFACE DETAILS. FAILURE TO SUBMIT ALL REQUIRED MATERIALS AS A COMPLETE, SEPARATE, SINGLE PACKAGE SHALL BE CAUSE FOR REJECTION OF ENTIRE PACKAGE. COPIES OF THE CONTRACT DOCUMENTS WITH CONTRACTOR'S NOTES THEREON WILL BE REJECTED. SIMPLY REDLINING THE CONTRACT DOCUMENTS IS NOT ACCEPTABLE. FOR ANY RESUBMITTALS TO THE PROFESSIONAL, PROVIDE A WRITTEN RESPONSE TO ANY PREVIOUS COMMENTS.
F. THE FIRE ALARM EQUIPMENT DISTRIBUTOR SHALL SUBMIT DOCUMENTS AS SPECIFIED IN THE QUALIFICATIONS PORTION OF THIS SECTION. THE SUBMITTAL SHALL INCLUDE IDENTIFICATION OF THE FOLLOWING:
1. NAME, TITLE, ADDRESS, AND PROOF OF QUALIFICATIONS FOR EACH "CONTRACTOR" AND AUTHORIZED REPRESENTATIVE, "DISTRIBUTOR" AND AUTHORIZED REPRESENTATIVE, AND "MANUFACTURER" AND AUTHORIZED REPRESENTATIVE.
2. WHEN THE DISTRIBUTOR INTENDS TO UTILIZE THE SERVICES OF A MANUFACTURED-AFFILIATED COMPANY IN THE SYSTEM DESIGN, THE DISTRIBUTOR SHALL SUBMIT A LETTER OF INTENT TO DO SO, ADDRESSED TO THE PROFESSIONAL, WHICH INCLUDES THE NAME OF THE MANUFACTURER-AFFILIATED COMPANY, THE NAMES AND QUALIFICATIONS OF THE NICET-CERTIFIED OR REGISTERED ENGINEER EMPLOYEES OF THE COMPANY, AND WHICH DESCRIBES THE DELEGATION OF FIRE ALARM SYSTEM DESIGN RESPONSIBILITIES.
G. PROVIDE A NARRATIVE DESCRIPTION OF THE PHASING PLAN.
1. OUTLINE THE SEQUENCE OF DEMOLITION, INSTALLATION, AND ACCEPTANCE TESTING.
2. DESCRIBE HOW THE SYSTEMS WILL BE CONFIGURED TO WORK AS A SINGLE COMBINED SYSTEM DURING THE PHASING TRANSITION.
3. PROVIDE UPDATES TO THE PROFESSIONAL ON A MONTHLY BASIS INCLUDING PROJECTED DATES.
H. SYSTEM COMPONENT DATA, SHOP DRAWINGS, AND CALCULATIONS:
1. DRAWINGS SHALL BE TO SCALE. SUBMIT 24X36 OR 30X42 INCH SHOP DRAWINGS AT A SCALE NOT SMALLER THAN 1/8 INCH = 1 FOOT. ALL DRAWINGS TO BE IN CAD. SYSTEM COMPONENT DATA AND CALCULATIONS SHALL NOT BE SMALLER THAN LETTER SIZE.
2. SYMBOLS SHALL BE CONSISTENT FOR THE ENTIRE SHOP DRAWING PACKAGE. THEREFORE, THE SYMBOLS USED ON THE FLOOR PLAN DRAWINGS SHALL BE THE SAME SYMBOLS USED ON THE RISER DIAGRAM AND DETAILS. SUBMITTING A RISER DIAGRAM WITH A COPY OF THE CONTRACT DRAWINGS USED AS THE FLOOR PLANS IS UNACCEPTABLE AND WILL RESULT IN REJECTION OF THE SHOP DRAWINGS.
3. AS A MINIMUM, THE FIRE ALARM AND FIRE DETECTION SHOP DRAWING SUBMITTAL SHALL INCLUDE THE FOLLOWING:
A. INCLUDE ANNOTATED CATALOG DATA SHOWING MANUFACTURER'S NAME, MODEL, VOLTAGE, AND CATALOG NUMBERS FOR ALL EQUIPMENT AND COMPONENTS. WHERE MORE THAN ONE CONFIGURATION OF EQUIPMENT OR OPTIONS ARE AVAILABLE, INDICATE SPECIFIC CONFIGURATION BEING SUBMITTED.
B. PROVIDE FLOOR PLANS SHOWING THE LOCATION OF ALL CONTROL UNITS, POWER EXTENDERS, DEVICES, EQUIPMENT, AND APPLIANCES AND THEIR ADDRESSES; INCLUDING IDENTIFICATION OF EQUIPMENT CONTROLLED OR MONITORED BY THE FIRE ALARM SYSTEM (E.G., FANS, DAMPERS, ETC.). SHOW CIRCUITING BETWEEN ALL DEVICES. SHOW LOCATIONS FOR ALL JUNCTION BOXES USED FOR T-TAPS. INDICATE CONDUIT FILL PERCENTAGES ON THE PLANS.
C. PROVIDE COMPLETE RISER DIAGRAMS INDICATING THE WIRING SEQUENCE OF ALL DEVICES, EQUIPMENT, AND APPLIANCES, THEIR ADDRESSES, AND THEIR CONNECTIONS TO THE CONTROL EQUIPMENT. PROVIDE A COLOR SCHEDULE FOR THE WIRING.
D. PROVIDE POINT-TO-POINT WIRING DIAGRAMS SHOWING THE POINTS OF CONNECTION AND TERMINALS USED FOR ALL ELECTRICAL FIELD CONNECTIONS IN THE SYSTEM, INCLUDING ALL INTERCONNECTIONS WITHIN FIRE ALARM CABINETS, AND BETWEEN THE EQUIPMENT OR SYSTEMS WHICH ARE SUPERVISED OR CONTROLLED BY THE FIRE ALARM SYSTEM. DIAGRAMS SHALL SHOW ALL CONNECTIONS FROM FIELD DEVICES (INTERFACE MODULES, ALL FIRE PROTECTION EQUIPMENT, DETECTORS, MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, ETC.) TO THE FAP AND REMOTE FAA, INITIATING CIRCUITS, SWITCHES, RELAYS AND TERMINALS, AND OTHER ANCILLARY EQUIPMENT.
E. PROVIDE WIRING DIAGRAMS AND DRAWINGS TO DEPICT THE LAYOUT OF THE POWER SUPPLIES AND CORRESPONDING AUDIBLE/VISIBLE CIRCUITS. PROVIDE CIRCUIT NUMBERS FOR EACH NAC AND SLC CIRCUIT
F. PROVIDE DRAWINGS AND A DESCRIPTION OF HOW THE FIRE ALARM SYSTEM MEETS THE REQUIREMENTS TO SYNCHRONIZE ALL THE NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING.
G. PROVIDE DATA ON EACH CIRCUIT TO INDICATE THAT THERE IS AT LEAST 20 PERCENT SPARE CAPACITY FOR NOTIFICATION APPLIANCES ON THE NAC, 20 PERCENT SPARE CAPACITY ON THE AMPLIFIER CIRCUITS, AND 20 PERCENT SPARE CAPACITY FOR INITIATING DEVICES ON THE SLC (E.G., NOT MORE THAN 80 PERCENT LOADED). THIS PORTION OF THE SUBMITTAL SHALL INCLUDE THE SIZING CALCULATIONS TO SHOW THAT THE WIRING LENGTHS AND WIRE GAUGE PROVIDE ADEQUATE VOLTAGE TO THE LAST DEVICE ON A CIRCUIT. EXAMPLE - AN 8 AMP POWER SUPPLY WOULD NOT BE LOADED TO MORE THAN 6.4 AMPS AND IF THE AUDIBLE/VISUAL APPLIANCE IS RATED FOR 36 VOLTS DC, THE WIRE SIZING CALCULATIONS WOULD SHOW THAT THE LAST DEVICE HAS A MINIMUM VOLTAGE OF 17.6 VOLTS. THE CALCULATION SHALL BE PROVIDED IN A TABULAR FORMAT. SIMPLY PROVIDING THE AMPERAGE AT THE END OF THE CIRCUIT ON THE RISER OR PLAN DRAWINGS IS NOT ACCEPTABLE.
H. PROVIDE COMPLETE BATTERY CALCULATIONS FOR BOTH THE ALARM AND SUPERVISORY POWER REQUIREMENTS. THE CALCULATION SHALL INCLUDE: IDENTIFICATION, QUANTITY, AND AMPERE-HOUR REQUIREMENTS FOR EACH SYSTEM COMPONENT AND/OR DEVICE IN BOTH THE STANDBY AND ALARM CONDITIONS IN A TABULAR OR OTHER EASILY DISCERNIBLE FORMAT. IN ADDITION TO ANY MANUFACTURER'S RECOMMENDED DERATING FACTOR, PROVIDE AN OVERALL MINIMUM 20 PERCENT SAFETY FACTOR.
I. PROVIDE A COMPLETE DESCRIPTION OF THE SYSTEM OPERATION. THIS SHALL BE A WRITTEN SUMMARY OR DETAILED EXPANSION OF THE MATRIX OF OPERATIONS SHOWN ON THE CONTRACT DRAWINGS.
J. PROVIDE MOUNTING DETAILS FOR ALL PANELS. PROVIDE TYPICAL MOUNTING DETAILS FOR EACH TYPE OF DEVICE FOR EACH UNIQUE MOUNTING APPLICATION (E.G., ACT OR GYPSUM CEILING, STEEL BEAMS OR TRUSSES, BLOCK OR GYPSUM WALLS).
K. INCLUDE SUBMITTAL DATA FOR ALL WIRE, TERMINAL CABINETS, AND RACEWAYS. PROVIDE COLOR SAMPLES AS REQUIRED.
L. PROVIDE A COMPLETE LIST OF DEVICE ADDRESSES AND THEIR CORRESPONDING MESSAGE TO BE DISPLAYED ON THE FAP AND REMOTE FAA. THE WORDING OF THE SYSTEM MESSAGES AS THEY APPEAR AT THE FAP AND REMOTE FAA PANELS SHALL BE SUBMITTED FOR APPROVAL TO THE OWNER AND THE PROFESSIONAL.
I. PROVIDE A COMPLETE TEST PLAN FOR SYSTEM TESTING AT LEAST THREE WEEKS PRIOR TO THE FINAL ACCEPTANCE TEST.
J. SUBMIT A COPY OF THE EXTENDED SERVICE AGREEMENT.
K. UPON RECEIPT OF FINAL-APPROVED SHOP DRAWING REVIEW, THE CONTRACTOR SHALL ISSUE ONE SET TO THE LOCAL CODE OFFICIAL.

1.9 PROJECT RECORD DOCUMENTS
A. PREPARE AND SUBMIT 5 SETS OF DETAILED CAD "AS-BUILT" DRAWINGS. THE DRAWINGS SHALL SHOW THE SYSTEM AS INSTALLED, INCLUDING ALL DEVIATIONS FROM BOTH THE PROJECT DRAWINGS AND THE APPROVED SHOP DRAWINGS. THE DRAWINGS SHALL BE PREPARED ON UNIFORM SIZED SHEETS THE SAME SIZE AS THE PROJECT DRAWINGS.
B. THE DRAWINGS SHALL INCLUDE COMPLETE PLAN VIEW WIRING DIAGRAMS SHOWING CONNECTIONS BETWEEN ALL DEVICES AND EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, FIRE ALARM PANELS, FIELD DEVICES AND SINGLE LINE CIRCUIT ROUTINGS BETWEEN DEVICES. INDICATE CONDUIT FILL PERCENTAGES ON THE PLANS. ALL EQUIPMENT IN PANELS SHALL BE SHOWN IN THE AS-BUILT ORIENTATION.
C. PROVIDE DRAWINGS DETAILING ALL WIRING CONNECTIONS WITHIN THE FAP.
D. INCLUDE A RISER DIAGRAM AND DRAWINGS SHOWING THE AS-BUILT LOCATION AND ADDRESS OR CIRCUIT NUMBER OF ALL DEVICES AND EQUIPMENT.
E. THESE DRAWINGS SHALL BE SUBMITTED WITH THE SPECIFIED OPERATIONS AND MAINTENANCE MANUALS.
F. UPON COMPLETION OF THE PROJECT AND AFTER APPROVAL BY THE DESIGN PROFESSIONAL, SUBMIT ONE (1) COMPLETE, REPRODUCIBLE RECORD SET TO THE OWNER. A SINGLE CAD (ELECTRONIC) COPY OF THE "AS-BUILT" DRAWINGS SHALL ALSO BE PROVIDED.
G. ALL DRAWINGS SUBMITTED SHALL BE SIGNED AND SEALED BY THE REGISTERED ENGINEER OR THE NICET EMPLOYEE OF THE DISTRIBUTOR.

1.10 OPERATION AND MAINTENANCE DATA
A. PROVIDE 5 BOUND COPIES OF AN OPERATION AND MAINTENANCE MANUAL. MAINTENANCE MANUALS SHALL BE FURNISHED COMPLETE AND CONSIST OF FIRE ALARM EQUIPMENT AND DATA ONLY. EACH SHALL CONTAIN SUFFICIENT DETAILED INFORMATION TO ENABLE OWNER'S TECHNICIANS TO UNDERSTAND, OPERATE AND MAINTAIN THE SYSTEM EQUIPMENT AND TO IDENTIFY REPLACEABLE PARTS. THE MANUAL SHALL INCLUDE:
1. AN INDEX.
2. COPIES OF ALL APPROVED SHOP DRAWINGS AND SUBMITTAL MATERIALS UPDATED TO "AS-BUILT".
3. A COMPLETE PARTS LIST OF ALL COMPONENTS.
4. A COPY OF THE COMPLETED AND SIGNED TESTING AND INSPECTION FORM (FROM NFPA 72 OR EQUIVALENT).
5. OPERATING INSTRUCTIONS, MAINTENANCE AND REPAIR PROCEDURES, AND TROUBLESHOOTING GUIDELINES.
6. TESTING PROCEDURES AND MAINTENANCE FREQUENCIES.
7. A LIST OF RECOMMENDED SPARE PARTS. THE SPARE PARTS LIST SHALL INCLUDE, FOR EACH ITEM, THE MANUFACTURER'S NAME, SERIAL NUMBER OF THE PART, AN ORDERING NUMBER, IF APPROPRIATE, AND A PHYSICAL AND ELECTRICAL DESCRIPTION OF THE PART.
8. A PRINTOUT OF THE NEW SYSTEM PROGRAM, INCLUDING ALL INPUT AND OUTPUT ADDRESSES AND MESSAGES DISPLAYED AT THE FAP AND FAA. FAILURE TO INCLUDE THE SYSTEM PROGRAM WILL BE CAUSE FOR WITHHOLDING FINAL PAYMENT.
9. A WRITTEN COPY OF ALL PASSWORDS OR OTHER ACCESS CODES FOR THE FAP SHALL BE PROVIDED DIRECTLY TO THE OWNER.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. CONTRACTOR SHALL VERIFY THE EXISTING FIRE ALARM SYSTEM MAKE/MODEL. CONTACT THE BUILDING MANAGER TO OBTAIN THE CONTACT INFORMATION FOR THE BUILDING FIRE ALARM SYSTEM MAINTENANCE CONTRACTOR.

2.2 FIRE ALARM CONTROL PANEL (FACP)
A. EXISTING FIRE ALARM CONTROL PANEL SHALL REMAIN AND BE MODIFIED AS NECESSARY.

2.3 AUXILIARY POWER SUPPLIES
A. AUXILIARY POWER SUPPLIES OR NOTIFICATION EXTENDER PANELS OF THE SAME MANUFACTURER AS THE FACP, OR LISTED FOR USE WITH THE FACP, SHALL BE INSTALLED AS NECESSARY TO PROVIDE POWER TO THE VISIBLE ALARMS AND OTHER REQUIRED EQUIPMENT.

2.4 SMOKE DETECTORS
A. PROVIDE ADDRESSABLE PHOTOELECTRIC OR IONIZATION OPEN AREA AND PHOTOELECTRIC DUCT SMOKE DETECTORS AS FOLLOWS:
1. SMOKE DETECTORS SHALL BE INSTALLED WHERE REQUIRED BY APPLICABLE CODE.
2. PROVIDE SELF RESTORING TYPE DETECTORS WHICH DO NOT REQUIRE ANY READJUSTMENT AFTER ACTUATION TO RESTORE IT TO NORMAL OPERATION. DETECTORS SHALL BE UL LISTED AS SMOKE - AUTOMATIC FIRE DETECTORS. IN

3.2 SYSTEM FIELD WIRING

A. WIRE EACH SIGNAL LINE CIRCUIT AND FIRE ALARM INDICATING APPLIANCE CIRCUIT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE FIRE ALARM CIRCUIT CONDUCTORS WITH COLOR CODED INSULATION, OR USE COLOR CODED TAPE AT EACH CONDUCTOR TERMINATION AND IN EACH JUNCTION BOX AND INTERFACE PANEL.

B. SIZE AND QUANTITY OF DATA, COMMUNICATION AND CONTROL WIRING ALONG WITH RELATED CONDUIT WHERE REQUIRED SHALL BE IN ACCORDANCE WITH THE GENERAL ELECTRICAL DIVISION SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN AND THE MANUFACTURER'S RECOMMENDATIONS AND THE REFERENCED CODES.

C. SIGNALING LINE CIRCUITS, NOTIFICATION APPLIANCE CIRCUITS, AND INITIATING DEVICE CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72 AND THE SYSTEM OPERATION PORTION OF THIS SPECIFICATION.

D. PROVIDE WIRING WITHIN CABINETS INSTALLED PARALLEL WITH OR AT RIGHT ANGLES TO THE SIDES AND BACK OF THE ENCLOSURE. ALL CONDUCTORS WHICH ARE TERMINATED, SPLICED, OR OTHERWISE INTERRUPTED IN ANY ENCLOSURE ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE CONNECTED WITH EITHER CRIMP-ON TYPE CONNECTIONS OR WITH CRIMP-ON SPADE TYPE CONNECTIONS TO TERMINAL BLOCKS. MARK EACH TERMINAL IN ACCORDANCE WITH THE WIRING DIAGRAMS OF THE SYSTEM.

E. JUNCTION BOXES WITH CRIMP-ON TYPE CONNECTIONS MAY BE UTILIZED WHERE TWO (2) OR FEWER WIRING CONNECTIONS ARE MADE. PROVIDE A LABELED TERMINAL CABINET WHERE MORE THAN TWO WIRING CONNECTIONS ARE MADE.

F. FOR ALARM AND SUPERVISORY INITIATING DEVICE CIRCUITS AND ALARM INDICATING CIRCUIT WIRING FOR THE LOW VOLTAGE PORTION OF THE FIRE ALARM SYSTEM, PROVIDE ALL WIRING AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. PROVIDE WIRING OPERATING AT 120 VAC AS MINIMUM NO. 12 AWG SOLID COPPER HAVING SIMILAR INSULATION.

G. CONDUIT:
1. CONDUCTORS SHALL BE RUN IN CONDUIT IN AREAS WITH EXPOSED CEILINGS AND UNFINISHED AREAS THROUGHOUT, EXCEPT AS OTHERWISE NOTED. THIS PORTION OF THE SYSTEM SHALL BE INSTALLED IN A MANNER APPROVED BY THE NATIONAL ELECTRIC CODE AND THE AHJ UTILIZING APPROVED RACEWAYS.
2. ALL CONDUIT SHALL BE RIGID OR EMT, SIZED AT 3/4 INCH MINIMUM. THE COLOR SHALL BE RED. ANY DEVICE WIRING THAT IS CONCEALED IN A WALL OR OTHER SIMILAR SPACE SHALL BE PROVIDED WITH FLEXIBLE METALLIC CONDUIT, CONDUIT OR OTHER SUITABLE RACEWAY.
3. THE USE OF TYPE MC FIRE ALARM CABLE IS PERMITTED IN LIEU OF CONDUIT TO THE EXTENT PERMITTED BY THE NEC, EXCEPT THAT CONDUCTORS SHALL BE IN CONDUIT OR SURFACE RACEWAY AS APPLICABLE IN PUBLIC OR OCCUPIED AREAS WITH EXPOSED CEILINGS. ALL TYPE MC FIRE ALARM CABLE SHALL BE RED STRIPED OR OTHERWISE IDENTIFIED AS FIRE ALARM CIRCUIT CABLE SHALL BE SIMILAR TO AFC CABLE SYSTEMS FIRE ALARM/CONTROL CABLE (PRODUCT INDICATED TO SHOW LEVEL OF QUALITY AND STYLING). INSTALL, SUPPORT AND TERMINATE AS REQUIRED BY THE NEC AND THE MANUFACTURER'S INSTRUCTIONS.

H. SURFACE RACEWAY:
1. THE BUILDING SHALL USE EXPOSED SURFACE RACEWAYS AS DESCRIBED IN SECTION 3.1 ABOVE WHEN IT IS NECESSARY TO ROUTE EXPOSED CABLING IN PUBLIC ACCESSIBLE AREAS. THE EXTENT TO WHICH SURFACE RACEWAY IS PERMITTED IS BASED ON THE FEASIBILITY OF FIRST ROUTING CONCEALED CONDUIT OR FISHING TYPE MC FIRE ALARM CABLE TO THE DEVICE. WHERE THIS IS NOT PRACTICAL, SURFACE RACEWAY IS PERMITTED WITH THE APPROVAL OF THE OWNER, CM OR PROFESSIONAL.
2. FOR ANY EXPOSED SURFACE RACEWAYS, METALLIC OR NON-METALLIC SURFACE RACEWAY IS PERMISSIBLE. NON-METALLIC SURFACE RACEWAY SHALL BE SIMILAR TO PANDUIT LDP MODELS (PRODUCT INDICATED TO SHOW LEVEL OF QUALITY). ALL SURFACE RACEWAY SHALL BE SIZED AS REQUIRED.
3. PROVIDE NEW SURFACE MOUNTED BACK BOXES TO MOUNT THE FIRE ALARM DEVICE IN AREAS OF THE EXISTING BUILDING WHERE ARCHITECTURAL WORK WILL NOT PERMIT FLUSH MOUNTING AND CONCEALED CONDUIT. ROUTE NEW WIREMOLD FROM ABOVE THE CEILINGS, ALONG ARCHITECTURAL ELEMENTS AND DOWN TO DEVICES WHERE REQUIRED.
4. MATCH OR COORDINATE THE SURFACE RACEWAY COLOR WITH THE ADJOINING SURFACE TO PROVIDE A UNIFORM APPEARANCE. PAINT AS REQUIRED AND SUBMIT COLOR SAMPLES TO THE PROFESSIONAL FOR APPROVAL.

I. ABOVE CEILING WIRING:
1. IT IS THE INTENT OF THIS SECTION TO ASSURE PLENUM RATED CABLE INSTALLATION IS NEAT, WELL ORGANIZED AND WITHOUT CONFLICT WITH OTHER COMPONENTS LOCATED ABOVE THE CEILING AREA. THE INSTALLATION SHALL ADHERE TO ALL THE REGULATIONS SET FORTH IN THE NFPA 72 AND THE NEC.
2. THIS SECTION IS AN ALLOWANCE FOR USING EXPOSED PLENUM RATED CABLE AND SHOULD NOT BE CONSTITUTED AS A PROHIBITION FROM USING CONDUIT OR TYPE MC FIRE ALARM CABLE AT ANY LOCATION.
3. ALL EXPOSED ABOVE CEILING WIRING (NOT IN CONDUIT AND NOT TYPE MC CABLE) SHALL BE PLENUM RATED CABLE. THE CABLE SHALL BE POWER-LIMITED FIRE PROTECTIVE SIGNALING CIRCUIT PLENUM CABLE, RED IN COLOR, AND DISTINCTIVELY MARKED, "FPLP".
4. THE CABLES SHALL BE RUN THROUGH DISTINCT BRIDLE RINGS OR J HOOKS WHICH ARE TO BE PROPERLY AFFIXED TO THE STRUCTURE, WALL AND/OR PARTITION AT MAXIMUM 5 FOOT INTERVALS. CABLES SHALL NOT REST ON TOP OF THE SUSPENDED CEILING ASSEMBLY NOR SHALL THEY BE BOUND TO THE SIDE OF THREADED ROD OR CEILING SUPPORT CABLES NOR SHALL THEY BE ROUTED WITHIN GENERAL PURPOSE OR LOW VOLTAGE MULTI-USE CABLE TRAYS. CABLES THAT RUN THROUGH THE CEILING AREAS MAY BE SUSPENDED DIRECTLY FROM THE STRUCTURE OR DECK, BUT SHALL NOT BE ATTACHED DIRECTLY TO EQUIPMENT, PIPES OR DUCTS.
5. WHERE TWO OR MORE CABLES ARE RUN PARALLEL TO ONE ANOTHER AND ARE NOT WITHIN BRIDLE RINGS, THEY SHALL BE BOUND TOGETHER BY NYLON TIE STRAPS AT 5 FOOT INTERVALS.
6. PLENUM RATED CABLE SHALL BE RUN IN CONDUIT AT ALL RISER LOCATIONS. WITHIN AREAS WHERE PHYSICAL DAMAGE IS ANTICIPATED, FINISH CEILINGS ARE NOT PROVIDED OR WHEN CONNECTING TO A WALL MOUNTED TERMINAL DEVICE, CONDUIT OR TYPE MC FIRE ALARM CABLE SHALL BE UTILIZED. ALL DROPS WITHIN WALLS SHALL BE IN A MINIMUM OF FLEXIBLE METAL CONDUIT.
7. ALL DROPS TO CEILING MOUNTED DEVICES SHALL BE FROM A JUNCTION BOX MOUNTED TO THE DECK OR STRUCTURE. FROM THIS BOX, EXTEND FLEXIBLE METAL CONDUIT TO THE CEILING MOUNTED DEVICE JUNCTION BOX. WIRING AND CONDUIT TO CEILING MOUNTED DEVICES SHALL HAVE ADEQUATE SLACK TO ALLOW FOR REMOVAL OF THE DEVICE OR CEILING TILE AS NECESSARY. FOR LAY-IN TYPE ACOUSTICAL CEILING TILES, THE CEILING MOUNTED JUNCTION BOX SHALL BE ATTACHED TO VIA A CADDY ACOUSTICAL TEE BAR HANGER OR EQUIVALENT. THE BOX SHALL NOT BE DIRECTLY ATTACHED TO THE CEILING TILE.
8. ALL DROPS TO WALL MOUNTED DEVICES SHALL BE IN FLEXIBLE METAL CONDUIT WHERE THE AREAS OR CHECKING ALL DEVICES AND OUTPUTS. OUTPUT CHECKING SHALL INCLUDE REPRESENTATIVE SAMPLES OF INPUT DEVICES FROM CIRCUITS OR MULTIPLE CIRCUITS THAT CONTRIBUTE TO MULTIPLE ALARM OUTPUTS.
9. ALL INTERFACES IN AND OUT OF OPEN ENDS OF JUNCTION BOXES OR CONDUITS SHALL BE FITTED WITH RUBBER GROMMETS TO MINIMIZE THE POTENTIAL FOR DAMAGE TO THE CONDUCTOR INSULATION. SPECIFIC ATTENTION SHALL BE MADE TO HANGING METHODS AND THE USE OF BRUSHINGS OR GROMMETS AT JUNCTION BOX OUTLETS, STUB-UPS OUTLETS OR TRANSITIONS TO TYPE MC CABLE.
10. CONDUIT "SLEEVES" SHALL BE INSTALLED WHERE WIRING PASSES THROUGH ANY WALL AND/OR PARTITION.
11. CABLES SHALL BE RUN PARALLEL TO WALLS AND/OR PARTITIONS WHENEVER POSSIBLE.
12. THE CONTRACTOR SHALL REVIEW THE INSTALLATION TECHNIQUES WITH THE CM AND OWNER PRIOR TO BEGINNING WORK AND REVIEW ANY COMPLETED WORK AFTER THE FIRST DAY OF SIGNIFICANT WORK. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY NON APPROVED INSTALLATION AT HIS OWN EXPENSE.

J. IN ACCORDANCE WITH NFPA 72, CONNECTIONS TO THE LIGHT AND POWER SERVICE SHALL BE ON DEDICATED BRANCH CIRCUITS. THE CIRCUITS AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED VIA A HANDLE LOCKING OR SIMILAR DEVICE. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT EACH FIRE ALARM CONTROL UNIT. THIS SHALL APPLY TO ALL FIRE ALARM CONTROL, NAC, AMPLIFIER, AND SIMILAR PANELS.

K. DISTINCTIVELY COLOR CODE ALL WIRING DIFFERENTLY FROM THE NORMAL BUILDING WIRING. AUDIBLE ALARM INDICATING APPLIANCES SHALL BE COLOR CODED DIFFERENTLY FROM ALARM INITIATING CIRCUITS. USE DIFFERENT COLORS FOR VISIBLE ALARM INDICATING APPLIANCES.

L. WIRING CONNECTIONS SHALL BE MADE BY THE INSTALLING CONTRACTOR AS SHOWN ON DRAWINGS FURNISHED BY THE REPRESENTATIVE OF THE DISTRIBUTOR. POWER SHALL NOT BE APPLIED TO THE SYSTEM UNTIL THE DISTRIBUTOR HAS APPROVED THE CONNECTIONS TO THE CONTROL EQUIPMENT.

3.3 INSTALLATION OF FIRE ALARM INITIATING AND NOTIFICATION EQUIPMENT

A. ALL INITIATION AND NOTIFICATION EQUIPMENT SHALL BE INSTALLED ON BACK BOXES/JUNCTION BOXES. FIELD VERIFY EXACT LOCATIONS OF ALL PANELS. ALL CEILING MOUNTED DEVICES IN LAY IN CEILING AREAS SHALL UTILIZE T-BAR HANGERS OR APPROVED EQUAL. PROVIDE A TYPED LABEL ON EACH MANUAL PULL STATION, DETECTOR, AND INTERFACE MODULE TO INDICATE THE LOOP AND ADDRESS NUMBER OF THE DEVICE.

B. MANUAL PULL STATIONS: LOCATE MANUAL PULL STATIONS IN AREAS SHOWN ON THE DRAWINGS. PROVIDE RECESSED BACK BOXES IN WHICH THE STATION OPERATING MECHANISMS SHALL BE MOUNTED. MOUNT STATIONS WITH THE OPERATING HANDLES 42-INCHES ABOVE THE FINISHED FLOOR.

C. SPOT TYPE SMOKE AND HEAT DETECTORS:
1. LOCATE DETECTORS IN AREAS SHOWN ON THE DRAWINGS. DETECTORS LOCATED ON THE CEILING SHALL BE INSTALLED NOT LESS THAN 4-INCHES FROM A SIDE WALL OR TO THE NEAR EDGE OF A CEILING TILE. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM HVAC REGISTERS.
2. VERIFY THE QUANTITY AND LOCATION OF DUCT SMOKE DETECTORS REQUIRED WITH THE HVAC SCHEDULES AND DRAWINGS.

D. AUDIBLE/VISIBLE ALARM NOTIFICATION APPLIANCES:
1. LOCATE ALARM NOTIFICATION IN AREAS SHOWN ON THE DRAWINGS.
2. AS A MINIMUM, ZONE EACH FLOOR SEPARATELY AND SYNCHRONIZE ALL DEVICES THROUGHOUT THE BUILDING.
3. SPEAKER CIRCUITS SHALL BE DESIGNED TO ALLOW FOR EACH SPEAKER TO BE TAPPED AT 1 WATT. EACH SPEAKER SHALL BE TAPPED AS REQUIRED FOR THE SPACE BEING COVERED. SPEAKERS SHALL BE TAPPED AT A MINIMUM OF ¼ WATT.
4. PROVIDE CIRCUITS THAT COMPLY WITH NFPA 72 SURVIVABILITY REQUIREMENTS TO ALLOW FOR PARTIAL EVACUATION OF OCCUPANTS IF SO ELECTED BY THE OWNER AND APPROVED BY THE AHJ.

E. VISIBLE ALARM INDICATING APPLIANCES:
1. LOCATE, AS SHOWN ON DRAWINGS AND REQUIRED BY CODE, VISIBLE ALARM INDICATING APPLIANCES IN AREAS SHOWN ON THE DRAWINGS. FOR WALL MOUNTED STROBES, THE STROBE SHALL BE INSTALLED 80 INCHES ABOVE THE FINISHED FLOOR OR 6 INCHES BELOW THE CEILING, WHICHEVER IS LOWER. CEILING MOUNTED DEVICES SHALL BE INSTALLED WITH THE FACEPLATE FLUSH TO THE CEILING TILE.
2. PROVIDE SPARE CAPACITY IN CIRCUITS AS DESCRIBED ABOVE. STROBE LIGHTS SHALL BE WIRED FOR SYNCHRONIZED OPERATION THROUGHOUT.
3. ANY AREAS THAT REQUIRE ALTERNATE MOUNTING LOCATIONS, WALL MOUNTING HEIGHTS BETWEEN 80 AND 96 INCHES, OR CEILING MOUNTED DEVICES IN LIEU OF WALL MOUNTED TO PROPERLY COVER AN ENTIRE ROOM OR AREA BASED ON OBSTRUCTION MUST BE COORDINATED WITH THE FIRE ALARM DISTRIBUTOR PRIOR TO SUBMITTING TO THE PROFESSIONAL FOR APPROVAL. ADJUST CANDELA RATINGS AND CIRCUIT CALCULATIONS AS REQUIRED.

F. NAC PANELS:
1. LOCATE NAC PANELS WHERE SHOWN ON THE DRAWINGS. ADDITIONAL PANELS, WHEN REQUIRED, MAY BE LOCATED IN STORAGE ROOMS, JANITOR'S CLOSETS, OR OTHER SIMILAR NOT NORMALLY OCCUPIED AREA. THE OWNER MUST APPROVE THESE LOCATIONS. THE ENCLOSURES SHALL BE FLUSH SURFACE MOUNTED WITH THE TOP OF THE CABINET NOT MORE THAN 6 FEET ABOVE THE FINISHED FLOOR. COORDINATE FINAL LOCATION OF NAC PANELS.
2. PROVIDE A SMOKE DETECTOR OVER THE CONTROL PANELS IN ACCORDANCE WITH NFPA 72.
3. PROVIDE TYPED QUALITY LABELS ON ALL PANEL IDENTIFICATION CARDS.
4. IF THE OWNER SELECTS AN UL APPROVED CENTRAL STATION AS THE SUPERVISING STATION FOR THE FIRE ALARM SYSTEM, THE CONTRACTOR SHALL PROVIDE A CREDIT CHANGE ORDER TO THE OWNER AND PROFESSIONAL FOR REVIEW AND APPROVAL TO REDUCE THE REQUIRED BATTERY BACKUP FROM 60 TO 24 HOURS.
5. EXTEND POWER FROM A DEDICATED SPARE 20 AMP, 1-PHASE BREAKER IN ACCORDANCE WITH PART 1 OF THIS SPECIFICATION AND THE NEC. FIELD VERIFY EXACT LOCATIONS.

G. MONITOR AND CONTROL MODULES:
1. MODULES SHALL BE MOUNTED WITHIN 3 FEET OF THE DEVICE BEING MONITORED OR CONTROLLED. IN PUBLIC ACCESSIBLE AREAS, LOCATE IN THE IMMEDIATE VICINITY OF ITS ASSOCIATED COMPONENT ABOVE THE CEILING.
2. MODULES SHALL BE LABELED WITH THEIR RESPECTIVE ADDRESSES.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH THE TRADE CONTRACTOR'S PROVIDING THE OTHER DEVICES.
4. SPRINKLER SYSTEM WATER FLOW AND PRESSURE SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER SYSTEM CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CONNECT THESE SWITCHES TO THE FIRE ALARM SYSTEM. THE CONTRACTORS SHALL WORK IN A COORDINATED BASIS TO TEST THE UNITS.
5. SPRINKLER SYSTEM SUPERVISORY SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER SYSTEM CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CONNECT THE SUPERVISORY SWITCHES TO THE FIRE ALARM SYSTEM. THE CONTRACTORS SHALL WORK IN A COORDINATED BASIS TO TEST THE UNITS.
6. THE WIRING BETWEEN MODULES AND THEIR INTENDED INTERFACE DEVICE, SUCH AS SPRINKLER SYSTEM DEVICE, IS SOLELY THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.
7. VERIFY THE QUANTITY AND LOCATION OF ELECTROMAGNETIC DOOR HOLDERS AND ASSOCIATED FIRE ALARM INTERFACE (SMOKE DETECTORS AND CONTROL MODULES/RELAYS) REQUIRED WITH THE ARCHITECTURAL DOOR SCHEDULES AND DRAWINGS. ELECTROMAGNETIC DOOR HOLDERS SHALL BE FAILSAFE (E.G., CLOSE ON A LOSS OF POWER TO THE DEVICE) AND BE POWERED BY THE BUILDING ELECTRICAL SYSTEM. THEY SHALL BE FURNISHED AND INSTALLED BY THE DOOR CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE DOORS AND SHALL CONNECT THESE DEVICES TO THE FIRE ALARM SYSTEM WITH THE APPROPRIATE INTERFACE MODULES TO RELEASE THE DOORS ON ALARM. THE FIRE ALARM CONTRACTOR AND GENERAL CONTRACTORS SHALL WORK IN A COORDINATED BASIS TO TEST THE UNITS.
8. VERIFY THE QUANTITY AND LOCATION OF HVAC UNITS REQUIRING UNIT SHUTDOWN AND ASSOCIATED FIRE ALARM INTERFACE (SMOKE DETECTORS AND CONTROL MODULES/RELAYS) REQUIRED WITH THE HVAC SCHEDULES AND DRAWINGS.

I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION EFFORTS WITH OTHER CONSTRUCTION TRADES WORKING WITHIN THE SCOPE OF THIS PROJECT.

3.4 MINIMUM SYSTEM TESTS

A. THE CONTRACTOR AND DISTRIBUTOR SHALL COMPLETE PRELIMINARY SYSTEM TESTING PRIOR TO THE FINAL TESTING TO ENSURE THAT ALL SYSTEMS ARE WORKING PROPERLY.

B. THE CONTRACTOR AND DISTRIBUTOR SHALL DEVELOP A WRITTEN TESTING PLAN AND MATRIX TO COVER ALL ASPECTS OF SYSTEM TESTING. AS A MINIMUM, THIS MATRIX SHOULD INCLUDE REPRESENTATIVE SAMPLES OF INPUT DEVICES FROM CIRCUITS OR MULTIPLE CIRCUITS THAT CONTRIBUTE TO MULTIPLE ALARM OUTPUTS.

C. NOTIFY THE AHJ, FIRE MARSHAL, OWNER'S REPRESENTATIVE, CM, AND THE PROFESSIONAL IN WRITING A MINIMUM OF 3 WEEKS PRIOR TO THE FINAL ACCEPTANCE TEST.

D. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH THE PROVISIONS OF NFPA 72 BY THE CONTRACTOR IN THE PRESENCE OF THE PROFESSIONAL, AHJ, FIRE MARSHAL AND THE OWNER. THE CONTRACTOR AND DISTRIBUTOR SHALL PERFORM SAID TESTS AS REQUIRED BY THE FIRE MARSHAL INSPECTION PERSONNEL FOR THE FINAL TEST OF EQUIPMENT AND OPERATION OF THE SYSTEM. AN AUTHORIZED REPRESENTATIVE FROM EACH SUPPLIER OF EQUIPMENT SHALL BE IN ATTENDANCE AT THE TESTING TO MAKE NECESSARY ADJUSTMENTS. THE REQUIRED TESTS ARE AS FOLLOWS:
1. TESTING SHALL COMPLY FULLY WITH NFPA 72 RELATIVE TO MODIFIED SYSTEMS.
2. VERIFY THE ABSENCE OF UNWANTED VOLTAGES BETWEEN CIRCUIT CONDUCTORS AND GROUND. THE TESTS SHALL BE ACCOMPLISHED AT THE PRELIMINARY TEST WITH RESULTS AVAILABLE AT THE FINAL SYSTEM TEST.
3. VERIFY THAT THE CONTROL UNIT IS IN THE NORMAL CONDITION AS DETAILED IN THE MANUFACTURER'S OPERATING AND MAINTENANCE MANUAL.
4. TEST AND RECORD EACH INITIATING DEVICE AND INDICATING APPLIANCE AND CIRCUIT FOR PROPER OPERATION AND RESPONSE AT THE CONTROL UNIT, INCLUDING THOSE ASSOCIATED WITH ALL SPECIFIED SYSTEM INTERFACES. TESTING OF ALL SYSTEM INTERFACES SHALL BE CONDUCTED IN COOPERATION WITH THE RESPECTIVE SYSTEM CONTRACTORS TO VERIFY THAT THE SYSTEMS FUNCTION AS SPECIFIED IN THE FIRE ALARM SYSTEM MATRIX OF OPERATIONS.
5. TEST AND RECORD THE SYSTEM FOR ALL SPECIFIED FUNCTIONS IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS AND THE MANUFACTURER'S OPERATING AND MAINTENANCE MANUAL.
6. TEST BOTH PRIMARY AND SECONDARY POWER. VERIFY, BY TEST, THE SECONDARY POWER SYSTEM IS CAPABLE OF OPERATING THE SYSTEM FOR THE TIME PERIOD AND IN THE MANNER SPECIFIED.
7. DETERMINE THAT THE SYSTEM IS OPERABLE UNDER TROUBLE CONDITIONS AS SPECIFIED.
8. VISUALLY INSPECT ALL WIRING.
9. TEST THE BATTERY CHARGER AND BATTERIES. MARK THE DATE OF THE TEST CLEARLY AND LEGIBLY DIRECTLY ON THE BATTERIES THEMSELVES.
10. VERIFY FINAL PROGRAMMING, ALL SOFTWARE CONTROL AND DATA FILES HAVE BEEN ENTERED OR PROGRAMMED INTO THE FAP. HARD COPY RECORDS OF THE SOFTWARE SHALL BE PROVIDED TO THE OWNER.
11. VERIFY THAT AS-BUILT DRAWINGS ARE ACCURATE.
12. MEASURE AND RECORD THE CURRENT IN CIRCUITS TO ASSURE THERE IS THE SPECIFIED SPARE CAPACITY FOR THE CIRCUITS.
13. MEASURE AND RECORD THE VOLTAGE DROP AT THE MOST REMOTE APPLIANCE ON EACH NOTIFICATION APPLIANCE CIRCUIT TO ASSURE THAT THE VOLTAGE DROP IS NOT EXCESSIVE.
14. SMOKE DETECTORS SHALL BE TESTED FOR SMOKE ENTRY (I.E., GO/NO-GO TESTS (MAGNETS) ARE NOT ACCEPTABLE). DISCONNECT THE VERIFICATION FEATURE FOR SMOKE DETECTORS DURING TESTS TO MINIMIZE THE AMOUNT OF SMOKE OR TEST GAS NEEDED TO ACTIVATE THE DETECTOR.

E. AUDIBILITY TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). IF THE SYSTEM DOES NOT MEET THE INTENDED PERFORMANCE OF THE ADAAG, THIS CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE APPLIANCES AND SYSTEM EXPANSION PARTS TO ACCOMMODATE THEM, AS REQUIRED TO MEET THE REQUIRED AUDIBILITY LEVELS.

F. THE DISTRIBUTOR SHALL COMPLETE A 100 PERCENT SYSTEM INSPECTION AND TEST OF ALL CONTROLS, DEVICES, AUXILIARY OPERATIONS AND SUPERVISING STATION CONNECTIONS. THE DISTRIBUTOR SHALL COMPLETE "RECORD OF COMPLETION" FORMS FOR THE FACILITY AS DESCRIBED IN NFPA 72, LISTING ANY DEVIATIONS TO THE APPLICABLE CODES AND HAVING A REPRESENTATIVE OF THE FIRE MARSHAL SIGN THE DOCUMENT. COPIES OF THE COMPLETED RECORD OF COMPLETION SHALL BE MADE AVAILABLE TO ANY AND ALL INTERESTED PARTIES AND BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL PROVIDED TO THE OWNER.

G. AFTER FINAL TESTING IS COMPLETE, PROVIDE A LETTER CERTIFYING THAT THE INSTALLATION IS COMPLETE AND FULLY OPERABLE TO THE PROFESSIONAL AND THE OWNER. THE LETTER SHALL INCLUDE THE NAMES AND TITLES OF THE WITNESSES TO THE PRELIMINARY TESTS AND FINAL ACCEPTANCE TESTS.

H. UPON COMPLETION OF A SUCCESSFUL ACCEPTANCE TEST, THE CONTRACTOR SHALL SO CERTIFY IN WRITING TO THE AHJ.

3.5 TRAINING

A. PROVIDE TRAINING SESSION, MINIMUM OF TWO (2) AT 1 HOUR EACH, FOR ALL PERSONNEL DESIGNATED BY THE OWNER. ALL TRAINING SESSIONS SHALL BE CONDUCTED PRIOR TO, OR IN CONJUNCTION WITH THE TESTING OF THE SYSTEM BY AN AUTHORIZED REPRESENTATIVE OF THE FIRE ALARM EQUIPMENT DISTRIBUTOR.

B. TRAINING SESSIONS SHALL COVER ALL ASPECTS OF SYSTEM PERFORMANCE, INCLUDING SYSTEM ARCHITECTURE, SLC CONFIGURATIONS, SENSOR AND OTHER INITIATING DEVICE TYPES, LOCATIONS, DEVICE ADDRESSES, FIRE ALARM CONTROL PANEL FUNCTION KEY OPERATION, THE SYSTEM MATRIX OF OPERATION, AND OTHER FUNCTIONS AS DESIGNATED BY THE OWNER.

C. THIS TRAINING SHALL INCLUDE TRAINING MANUALS, DEMONSTRATION EQUIPMENT AND ANY OTHER ITEMS REQUIRED TO ASSIST THE OWNER IN THE OPERATION AND MAINTENANCE OF THE SYSTEMS.

D. COMPREHENSIVE SYSTEM TROUBLESHOOTING TRAINING SHALL BE PROVIDED FOR A SINGLE INDIVIDUAL DESIGNATED BY OWNER. THIS SESSION SHALL BE SEPARATE AND DISTINCT FROM THE ABOVE DESCRIBED SESSION AND BE A MINIMUM OF 2 HOURS.

3.6 SPARE PARTS AND TOOLS

A. ALL SPARE PARTS FURNISHED SHALL BE DIRECTLY INTERCHANGEABLE WITH THE CORRESPONDING COMPONENTS OF THE INSTALLED SYSTEM. SPARE PARTS SHALL BE SUITABLY PACKAGED AND IDENTIFIED BY NAMEPLATE, TAGGING, OR STAMPING. SPARE PARTS SHALL BE DELIVERED TO THE SITE IN UNOPENED CARTONS FOR STORAGE IN THE BUILDING WHERE DIRECTED.

B. PROVIDE THE FOLLOWING SPARE PARTS AND ACCESSORIES:
1. SPOT TYPE SMOKE DETECTOR, 1 OF EACH TYPE INSTALLED.
2. INTERFACE MODULE OR ADDRESSABLE RELAY, 1 OF EACH TYPE INSTALLED.
3. AUDIBLE/VISIBLE APPLIANCES, 1 OF EACH TYPE INSTALLED.
4. FURNISH A LIST, IN DUPLICATE, OF ALL OTHER PARTS AND ACCESSORIES WHICH THE MANUFACTURER OF THE SYSTEM RECOMMENDS TO BE STOCKED FOR MAINTENANCE

3.7 KEYS

A. KEYS AND LOCKS FOR ALL EQUIPMENT SHALL BE IDENTICAL. PROVIDE NOT LESS THAN 6 KEYS OF EACH TYPE REQUIRED. IDENTIFY KEYS BY AN APPROPRIATE NUMBER STAMPED ON EACH KEY OR ON A METAL TAG ATTACHED THERETO. PROVIDE A KEY NUMBERING CHART IN EACH OPERATION AND MAINTENANCE MANUAL.

3.8 WARRANTY

A. THE CONTRACTOR SHALL WARRANT THE FIRE ALARM EQUIPMENT AND WIRING TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF 1 YEAR FROM THE DATE OF FINAL INSTALLATION AND ACCEPTANCE OF THE SYSTEM BY THE OWNER'S REPRESENTATIVES.

B. WITHIN THESE WARRANTIES, ALL PARTS AND THE ASSOCIATED LABOR REQUIRED FOR RESPONSE, TROUBLE SHOOTING, REPAIR AND/OR REPLACEMENT ARE TO BE INCLUDED.

3.9 SYSTEM SOFTWARE AND FIRMWARE

A. THE CONTRACTOR SHALL MAINTAIN RECORD COPIES OF ALL VERSIONS OF SYSTEM SOFTWARE INSTALLED. CHANGES IN SOFTWARE SHALL BE AUTOMATICALLY IDENTIFIABLE WHEN DIFFERENT VERSIONS OF THE SYSTEM PROGRAM ARE COMPARED. DIFFERENCES BETWEEN THE DOCUMENTS SHALL BE DISTINCTLY HIGHLIGHTED TO MAKE IT DISTINCT FROM THE NORMAL PROGRAM TEXT.

B. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL SYSTEM FIRMWARE PROVIDED AS PART OF THE EQUIPMENT. IN ADDITION, RECORDS SHALL BE MAINTAINED OF ALL FIRMWARE MODIFICATIONS FROM INITIAL INSTALLATION UNTIL FINAL ACCEPTANCE.

C. PROVIDE THE OWNER WITH A WRITTEN COPY OF ALL PASSWORDS OR OTHER ACCESS CODES FOR THE FAP.

D. LACK OF DOCUMENTATION OF SOFTWARE OR FIRMWARE CHANGES SHALL RESULT IN COMPLETE SYSTEM RE-ACCEPTANCE TESTING.

E. PROVIDE 2 PROGRAMMING CHANGES AS DIRECTED BY THE A/E, OWNER, OR OWNER'S REPRESENTATIVE. THIS DOES NOT INCLUDE PROGRAMMING CHANGES REQUIRED TO MAKE THE SYSTEM OPERATION MEET THE CONTRACT DOCUMENT REQUIREMENTS AND APPROVAL OF THE AHJ.

F. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL TURN OVER TO THE OWNER THE MOST CURRENT, VIRUS-FREE COPY OF THE DOWNLOADABLE, AS-BUILT FIRE ALARM SOFTWARE. THIS INFORMATION SHALL BE IN THE FOLLOWING FORMATS: PRINTED REPRODUCIBLE HARD COPY AND VIRUS-FREE ELECTRONIC MEDIA (USB DRIVE OR CD). IN ADDITION, ANY REVISIONS CREATED DURING THE WARRANTY PERIOD DUE TO WARRANTY RELATED WORK SHALL ALSO BE ISSUED TO THE OWNER IN THE FORMATS DESCRIBED AT NO ADDITIONAL COST.

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THESE DRAWINGS & SPECIFICATIONS ARE CONFIDENTIAL AND SHALL REMAIN THE SOLE PROPERTY OF SWEETGREEN CORPORATION. THEY SHALL NOT BE REPRODUCED (IN WHOLE OR IN PART), SHARED WITH THIRD PARTIES OR USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF SWEETGREEN CORPORATION. THESE DRAWINGS & SPECIFICATIONS ARE INTENDED TO EXPRESS DESIGN INTENT FOR A PROTOTYPICAL SWEETGREEN STORE (WHICH IS SUBJECT TO CHANGE AT ANY TIME) AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. NEITHER PARTY SHALL HAVE ANY OBLIGATION NOR LIABILITY TO THE OTHER (EXCEPT AS STATED ABOVE) UNTIL A WRITTEN AGREEMENT IS FULLY EXECUTED.

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SECTION 210600 -FIRE PROTECTION SPECIFICATIONS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. MODIFY AND EXTEND THE EXISTING SPRINKLER SYSTEM TO PROVIDE COMPLETE COVERAGE THROUGHOUT THE FACILITY. DESIGN AND INSTALL A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE AREA OF WORK IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, ALL REFERENCED CODES, THE CONTRACT DRAWINGS, AND THESE SPECIFICATIONS.

B. THE WORK IN THIS SECTION SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, AND SERVICES REQUIRED TO MANUFACTURE, DELIVER, AND INSTALL ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL FIRE PROTECTION SPRINKLER SYSTEM PIPING AND SPECIALTIES AS DELINEATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

C. COORDINATE THE WORK OF THIS SECTION WITH RELATED WORK OF OTHER TRADES, SUBCONTRACT THE WORK OF THIS SECTION TO A SINGLE FIRM, TO ENSURE THAT THAT ALL WORK WILL BE THE SOLE RESPONSIBILITY OF ONE SUBCONTRACTOR. EMPLOY OTHER SUBCONTRACTORS AS NECESSARY FOR PORTIONS OF THE WORK. BUT PRIME SUBCONTRACTOR MUST ASSUME RESPONSIBILITY AND/OR LIABILITY FOR TOTAL PERFORMANCE OF WORK INCLUDED IN THIS SECTION.

D. CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS REQUIRED TO PROVIDE AND INSTALL FIRE PROTECTION SYSTEM AS SHOWN ON DRAWINGS. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION, WHETHER SPECIFICALLY MENTIONS OR NOT.

E. THE CONTRACTOR SHALL PROVIDE A FIRE WATCH AND PROTECTION AS REQUIRED.

1.2 APPROVALS

A. THE CONTRACTOR MUST COMPLY WITH ALL LAWS, ORDINANCES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION (AHJ), INCLUDING COUNTY, STATE, FEDERAL, PUBLIC UTILITY, AND THE OWNER'S INSURANCE CARRIER.

B. HYDRAULIC CALCULATIONS, PRODUCT DATA SHEETS, SHOP DRAWINGS AND ALL OTHER ASSOCIATED SUBMITTALS MUST BEAR THE STAMP OF APPROVAL OF THE AHJ. PROVIDE NFPA 13 WORKING PLANS TO THE AHJ. ANY AND ALL COMMENTS RECEIVED FROM THE AHJ AND RESOLUTION THEREOF SHALL BE SUBMITTED TO THE PROFESSIONAL FOR RECORD.

C. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES ASSOCIATED WITH REQUIRED APPROVALS.

1.3 SUBMITTALS

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE AHJ, INSURANCE CARRIER AND/OR PROFESSIONAL'S REVIEWS.

B. THE SUBMITTAL SHALL BE MADE AS A COMPLETE PACKAGE CONSISTING OF FIRE PROTECTION EQUIPMENT ONLY. THE SUBMITTAL SHALL NOT INCLUDE OTHER PLUMBING EQUIPMENT OR COMPONENTS NOT DIRECTLY RELATED TO THE FIRE PROTECTION SYSTEM INSTALLATION FOR APPROVAL. WHERE OTHER EQUIPMENT OR COMPONENTS ARE AN INTEGRAL PART OF THE FIRE PROTECTION SYSTEM, THEY SHALL BE INDICATED AS SUCH, BUT NOT INCLUDED WITH THE SUBMITTAL AND ONLY SHOW REQUIRED INTERFACE DETAILS. FAILURE TO SUBMIT ALL REQUIRED MATERIALS AS A COMPLETE, SEPARATE SINGLE PACKAGE SHALL BE CAUSE FOR REJECTION OF ENTIRE PACKAGE. COPIES OF THE CONTRACT DOCUMENTS WITH CONTRACTOR'S NOTES THEREON WILL BE REJECTED. SIMPLY REDLINING THE CONTRACT DOCUMENTS IS NOT ACCEPTABLE.

C. SUBMIT CONTRACTOR QUALIFICATIONS (FROM THE QUALIFICATIONS OF CONTRACTOR SECTION)
1. INSTALLATION EXPERIENCE
2. DESIGNER CERTIFICATION

D. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW BY THE PROFESSIONAL, IDENTIFICATION AND DATA OF SPECIFIC MATERIALS AND EQUIPMENT TO BE INCORPORATED IN THE PROJECT. SHOP DRAWINGS, HYDRAULIC CALCULATIONS, CATALOG CUTS, AND ASSOCIATED MATERIALS SHALL BE SUBMITTED AS A COMPLETE, SINGLE PACKAGE. THIS PACKAGE SHALL INCLUDE:
1. PRODUCT DATA. IDENTIFICATION OF SPECIFIC PRODUCT DATA AND EQUIPMENT SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH THE SUBMISSION OF SHOP DRAWINGS. SHOULD MORE THAN ONE ITEM OR A SPECIFIC ITEM WITH MULTIPLE OPTIONS APPEAR ON A SINGLE CUT SHEET, THE ITEM OR ITEMS SHALL BE SPECIFICALLY INDICATED.
2. COMPLETE SHOP DRAWINGS. FAILURE OF THE CONTRACTOR TO SUBMIT COMPLETE SHOP DRAWING PACKAGES MAY RESULT IN DELAY IN PROCESSING TIME OR REJECTION OF THE SUBMITTAL. ALL SUCH DELAYS TO THE JOB RESULTING FROM THE CONTRACTOR'S FAILURE TO SUBMIT COMPLETE SHOP DRAWINGS AT ONE TIME WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE SHOP DRAWING SUBMITTAL SHALL BE SUBDIVIDED BY DRAWING AND CLEARLY IDENTIFY THE CONTRACT SPECIFICATION SECTION OR DRAWING REFERENCED, IDENTIFYING AND HIGHLIGHTING EACH ITEM TO BE REVIEWED.
3. SUBMIT MATERIALS AND INFORMATION DESCRIBED IN NFPA 13, NFPA 25, NFPA 70 AND NFPA 72.
4. HYDRAULIC CALCULATIONS AND PIPING DRAWINGS. ALL CALCULATIONS AND CAD DRAWINGS SHALL:
   A. BE PREPARED UNDER THE DIRECT SUPERVISION OF AN INDIVIDUAL HAVING NICET LEVEL III OR IV CERTIFICATION OR AN INDIVIDUAL HAVING REGISTRATION AS A PROFESSIONAL ENGINEER. PREPARATION OF HYDRAULIC CALCULATIONS AND/OR PIPING DRAWINGS BY INDIVIDUALS WHO DO NOT HAVE SAID CERTIFICATION OR WHO ARE NOT DIRECTLY SUPERVISED BY AN INDIVIDUAL WITH SAID CERTIFICATION IS PROHIBITED. CALCULATIONS SHALL BE SIGNED AND SEALED.
   B. BE PREPARED USING A COMMERCIALLY AVAILABLE COMPUTER MODELS SUCH AS HASS, HYDRACALC, SPRINKLER-CALC, SIGMA OR "THE".
   C. BE PREPARED USING THE SAME COMPUTER MODEL. HYDRAULIC CALCULATIONS AND THE MODEL USED SHALL BE CONSISTENT THROUGHOUT THE PROJECT. HYDRAULIC CALCULATIONS SHALL BE NEAT AND ORDERLY (E.G. COLUMNS AND ROWS LINE UP ACCORDINGLY ON PRINTOUTS).
   D. HAVE HYDRAULIC REFERENCE POINTS, PROVIDED IN A SYSTEMATIC AND CONSISTENT MANNER, CLEARLY INDICATED ON BOTH THE SHOP DRAWINGS AND THE HYDRAULIC CALCULATIONS.
5. WHERE SPRINKLER SYSTEMS ARE SUBMITTED SEPARATELY, A SCHEMATIC DRAWING INDICATING LOCATIONS OF ALL NODES USED IN THE HYDRAULIC CALCULATIONS SHALL BE INCLUDED WITH THE SUBMISSION. COMMON PIPING AND NODES SHALL UTILIZE THAT SAME NOMENCLATURE.
6. WHERE PHASING OF CONSTRUCTION REQUIRES SUBMISSION OF PORTIONS OF THE SYSTEM, ALL PIPING AND EQUIPMENT ASSOCIATED WITH ANY CALCULATIONS MUST BE PROVIDED WITH THE SUBMITTAL. ADDITIONALLY, THE PHASING PLAN AS IT RELATES TO THE FIRE PROTECTION SYSTEM INSTALLATION SHALL BE PROVIDED EITHER DIAGRAMMATICALLY OR BY NARRATIVE.

E. WHERE THE CONTRACTOR MUST REVISE AND RESUBMIT, THE REVISED SUBMITTAL SHALL BE ACCOMPANIED BY THE WRITTEN RESPONSE TO ALL PREVIOUS SUBMITTAL COMMENTS. FAILURE TO PROVIDE WRITTEN RESPONSE TO PREVIOUS COMMENTS SHALL BE CAUSE FOR REJECTION OF THE SUBMITTAL.

G. CAD LAYOUT DRAWINGS SHALL BE SUBMITTED FOR THE AUTOMATIC SPRINKLER SYSTEM. THE LAYOUT DRAWINGS SHALL BE PREPARED AT A SCALE OF NOT LESS THAN 1/8 INCH = 1 FOOT, AND DRAWINGS SHEET SIZE SHALL BE EITHER 24X36 OR 30X42 INCHES. THE LAYOUT DRAWINGS SHALL INCLUDE ALL INFORMATION IDENTIFIED IN NFPA 13 TO BE INDICATED AND:
1. ALL ROOM NUMBERS SHALL BE PROVIDED ON THE DRAWINGS.
2. PLAN AND ELEVATION VIEWS OF THE MECHANICAL ROOM SHOWING THE SPRINKLER RISER, PROPOSED PIPING, EQUIPMENT PADS, DIMENSIONS OF OPENINGS IN FLOORS, ROOFS, AND WALLS, AND EQUIPMENT TO ESTABLISH THAT ALL PROPOSED EQUIPMENT WILL FIT WITHIN THE ALLOTTED SPACES WITH CLEARANCES FOR INSTALLATION AND MAINTENANCE.
3. PLAN VIEWS, WITH ELEVATION VIEWS WHERE NECESSARY FOR CLARITY, OF ALL PIPING AND DISTRIBUTION SYSTEMS INDICATING LOCATIONS OF PROPOSED PIPING, HANGERS, SPRINKLERS, WATER FLOW SWITCHES, HOSE OUTLETS, AND PENETRATIONS TO FIRE-RATED OR SMOKE ENCLOSURE WALLS.
4. WHERE TRAPEZE HANGERS ARE TO BE USED, PROVIDE ALL PERTINENT INFORMATION FOR DETERMINING SIZE OF TRAPEZE MEMBER.
5. THE DRAWINGS SHALL SHOW PROPOSED DETAILS FOR ATTACHMENT, ANCHORING, AND HANGING TO STRUCTURAL FRAMING OF THE BUILDING; VIBRATION ISOLATION UNITS; FOUNDATION AND SUPPORT; LOCATION AND SIZE OF SLEEVES AND PREPARED OPENINGS FOR PASSAGE OF PIPES. IF THE CONTRACTOR DEEMS DEPARTURES FROM THE CONTRACT DRAWINGS NECESSARY, DETAILS OF SUCH DEPARTURES, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROJECT AND THE REASONS THEREFORE, SHALL BE SUBMITTED WITH THE DRAWINGS FOR REVIEW BY THE PROFESSIONAL. ALLOWED DEPARTURES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
6. THE AVAILABLE WATER SUPPLY DATA FOR THE SPRINKLER SYSTEM DESIGN SHALL BE PROVIDED ON THE DRAWING THAT INDICATES THE LOCATION OF THE FIRE PROTECTION WATER SERVICE ENTRANCE. THE DATA SHALL INCLUDE: DATE AND TIME OF TEST; LOCATION (RELATIVE TO BUILDING GRID) OF FLOW HYDRANTS USED FOR DATA AND LOCATION OF RESIDUAL PRESSURE READING, ALONG WITH THE PRESSURES AND FLOWS DURING THE TEST. FURTHER, THE DATA FOR ADJUSTMENTS TO THE WATER SUPPLY DATA, INCLUDING ELEVATION CHANGES AND FRICTION LOSS COMPONENTS, BETWEEN THE STREET AND THE BUILDING SHALL BE NOTED. PROVIDE A "SCHEMATIC" FOR CLARITY IF NECESSARY.
7. ITEMS ON OR PROJECTING THROUGH THE CEILING SHALL BE COORDINATED WITH OTHER ITEMS AND SHALL BE SHOWN ON THE REFLECTED CEILING PLAN SHOP DRAWINGS SUBMITTED FOR THE PROFESSIONAL'S REVIEW. SUCH ITEMS SHALL FOLLOW THE INTENT AS SHOWN ON THE CONTRACT DOCUMENTS REFLECTED CEILING PLAN DRAWINGS AND SHALL NOT BE INSTALLED UNTIL REVIEWED BY THE PROFESSIONAL.
8. LOCATE ALL SPRINKLER HEADS ON THE DRAWINGS.
9. PROVIDE THE ENCODED AND DIMENSIONED PORTION OF THE SPRINKLER SYSTEM DRAWING INDEPENDENTLY OF THE REFLECTED CEILING PLAN DRAWINGS (FOR CLARITY IN SUBMITTAL REVIEWS.)
10. PROVIDE CEILING ELEVATIONS AND PIPE ELEVATIONS.
11. INDICATE MAKE, TYPE, AND OFFICE SIZE OF SPRINKLER HEADS.
12. IDENTIFY ALL LOCATIONS WHERE PIPING AND/OR FITTINGS WILL BE EXPOSED TO SIGHT ALONG WITH IDENTIFICATION OF ALL TRAPPED SEGMENTS OF PIPE AND AUXILIARY/LOW-POINT DRAINS.
13. IDENTIFY ALL WALLS AND/OR FLOORS WHICH ARE FIRE-RATED, SMOKE BARRIERS, OR SMOKE PARTITIONS THAT ARE PENETRATED BY THE FIRE PROTECTION PIPING OR EQUIPMENT. IDENTIFICATION OF THE WALL FLOOR AND PENETRATION THERETO SHALL INCLUDE THE REQUIRED RATING, TYPE OF CONSTRUCTION, AND REFERENCE TO TYPE OF PENETRATION SEAL THAT IS TO BE USED (INCLUDING UL SYSTEM NUMBER). REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
14. INCLUDE A DIAGRAM OF ALL CONTROL VALVES, CHECKS, DRAIN PIPES, AND TEST PIPES.
15. INCLUDE A DIAGRAM OF THE UNDERGROUND WATER SUPPLY TO THE BUILDING. INCLUDE ALL PIPING BETWEEN THE BUILDING AND THE LOCATION OF THE CONFIRMING WATER FLOW TEST DATA. IDENTIFY SOURCE OF WATER SUPPLY, PRESSURE, AND ELEVATION.
16. PROVIDE A COPY OF THE HYDRAULIC DESIGN INFORMATION SIGN THAT WILL BE INSTALLED IN THE RISER.

H. THE CONTRACTOR SHALL FORWARD TO ALL AHJ'S, FOR THEIR REVIEW AND COMMENT, A MINIMUM OF 3 SETS OF THE SHOP DRAWINGS INDICATING THE FINAL SPRINKLER HEAD LAYOUT WITH ASSOCIATED HYDRAULIC CALCULATIONS.

I. FIRE PROTECTION EQUIPMENT ELECTRICAL DATA SHALL BE SUBMITTED FOR REVIEW:
1. PRIOR TO SUBMITTING DATA FOR EQUIPMENT REQUIRING ELECTRICAL SERVICE, THE CONTRACTOR SHALL VERIFY THAT ELECTRICAL CHARACTERISTICS OF EQUIPMENT SUBMITTED COMPLY WITH ELECTRICAL SERVICE PROVIDED FOR THE SPECIFIED ITEMS OF EQUIPMENT.
2. UPON RECEIPT OF REVIEWED SUBMITTALS FOR EQUIPMENT PROVIDED UNDER THIS DIVISION OF THIS SPECIFICATION, THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE REQUIREMENTS SUCH AS, MOTOR AND/OR HEATER AND FULL LOAD AMPS; ELECTRICAL SERVICE CHARACTERISTICS SUCH AS VOLTAGE AND PHASE; AND NUMBER OF SERVICES FOR EACH ITEM OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH THE ELECTRICAL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL FURNISH TO THE PROFESSIONAL AND THE ELECTRICAL CONTRACTOR A COMPLETE TYPEWRITTEN LIST OF ELECTRICAL REQUIREMENTS FOR EACH ITEM OF EQUIPMENT TO BE INSTALLED.

J. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED AND INCLUDE SYSTEM COMPONENTS, SYSTEM FLOW TEST INFORMATION, CAD AS-BUILT DRAWINGS, AS-BUILT HYDRAULIC CALCULATIONS, AND TEST CERTIFICATIONS AS A MINIMUM. SEE OPERATIONS AND MAINTENANCE SECTION OF THIS SPECIFICATION.

K. ALL FIRESTOPPING MATERIAL AND INSTALLATION METHODS MUST BE APPROVED BY THE PROFESSIONAL.

L. PROVIDE A VALVE CHART.

M. PROVIDE DOCUMENTATION OF GROOVED COUPLING TRAINING.

1.5 FEES

A. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY FEES, PERMITS, AND INSPECTIONS FOR APPLICABLE PORTIONS OF THE WORK.

1.6 WARRANTY

A. ALL WORK TO BE GUARANTEED IN WRITING FOR A PERIOD OF ONE (1) YEAR FORM DATE OF ACCEPTANCE BY THIS CONTRACTOR. IF SHALL COVER ALL MATERIALS, INSTALLATION, AND WORKMANSHIP AND SHALL BE ADDITIONAL TO MANUFACTURER'S EQUIPMENT.

1.7 QUALIFICATIONS OF CONTRACTOR

A. THE CONTRACTOR FOR THE FIRE PROTECTION SYSTEM SHALL BE QUALIFIED FOR THE WORK SPECIFIED HEREIN AND BE REGULARLY ENGAGED IN THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS AND EQUIPMENT.

B. THE CONTRACTOR SHALL HAVE A MINIMUM OF THREE YEARS EXPERIENCE IN THE INSTALLATION OF SPRINKLER SYSTEMS. DOCUMENTATION SHALL BE SUBMITTED TO SHOW THAT THE CONTRACTOR HAS PROVIDED SIMILAR SYSTEMS TO THOSE SPECIFIED HEREIN. DOCUMENTATION ON AT LEAST 3 SIMILAR SYSTEMS SHALL BE PROVIDED INCLUDING THE SYSTEM SIZE AND THE NAME OF A CONTACT PERSON AT THE FACILITY.

C. DOCUMENTATION SHALL BE PROVIDED TO SHOW THAT ALL FIRE PROTECTION SYSTEMS ARE DESIGNED BY A REGULAR FULL-TIME EMPLOYEE WITH A LEVEL III OR LEVEL IV NICET (NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES) CERTIFICATION IN AUTOMATIC SPRINKLER SYSTEM LAYOUT OR A REGISTERED PROFESSIONAL ENGINEER. IF SUCH A CERTIFIED INDIVIDUAL IS NOT EMPLOYED, ADEQUATE DOCUMENTATION SHALL BE PROVIDED TO SHOW COMPARABLE TRAINING AND EXPERIENCE OF THE DESIGNER. ADDITIONALLY, PROVIDE DOCUMENTATION FOR THE REGISTERED PE OR NICET LEVEL PERSON THAT WILL REVIEW AND CERTIFY THE DESIGN.

D. WELDING:
1. ALL WELDERS EMPLOYED FOR THE WORK SHALL BE QUALIFIED UNDER THE REQUIREMENTS OF ANSI B31.1.0 SECTION 127.5.
2. EVIDENCE OF WELDERS' QUALIFICATIONS SHALL BE SUBMITTED TO THE PROFESSIONAL BEFORE ANY WELDS ARE MADE.
3. ALL WELDING SHALL BE PERFORMED AT THE SHOP.

E. THE PROPOSED CONTRACTOR SHALL SUBMIT EVIDENCE OF THE ABOVE QUALIFICATIONS ITEMS TO THE PROFESSIONAL PRIOR TO PROCEEDING WITH ANY WORK ON THIS PROJECT. CONTRACTORS NOT MEETING THESE REQUIREMENTS WILL NOT BE PERMITTED TO PERFORM WORK SPECIFIED UNDER THIS SECTION, UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY THE OWNER.

F. QUALIFICATIONS OF MANUFACTURER AND PRODUCTS
1. PIPE, VALVES, FITTINGS, AND APPURTENANCES SHALL BE MANUFACTURED IN THE UNITED STATES.
2. FIRMS WHOSE EQUIPMENT AND PRODUCT NAME APPEAR WITHIN THE UNDERWRITER LABORATORY'S "FIRE PROTECTION EQUIPMENT DIRECTORY" LIST OF SPECIALTIES AND/OR ACCESSORIES AND FACTORY MUTUAL'S "FIRE PROTECTION APPROVAL GUIDE".
3. ALL PRODUCTS/PARTS INSTALLED OR FURNISHED UNDER THIS CONTRACT SHALL BE LISTED AND APPROVED FOR USE BY THE AUTHORITIES AND AGENCIES LISTED HEREIN.

1.8 OPERATION AND MAINTENANCE MANUALS

A. OPERATION AND MAINTENANCE MANUALS, WITH A TABLE OF CONTENTS, SHALL INCLUDE:
1. PRINTED MATERIAL RELATING TO ALL THE FIRE PROTECTION EQUIPMENT.
2. CONTRACTOR'S MATERIALS AND TEST CERTIFICATES AS REQUIRED BY NFPA 13, COMPLETED AND SIGNED.
3. COMPLETED AND APPROVED AS-BUILT HYDRAULIC CALCULATIONS.
4. PROVIDE A COPY OF THE VALVE SCHEDULE.
5. AS-BUILT DRAWINGS. PROVIDE DRAWINGS UPDATED IN CAD.
6. A SYNOPSIS OF THE REQUIREMENTS OF NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS. THIS DOCUMENT SHALL BE A SUMMARY LISTING OF ALL REQUIRED TESTS AND INSPECTIONS AND THEIR FREQUENCIES PER NFPA 25. A FULL PRINTED COPY OF NFPA 25 SHALL NOT BE PROVIDED IN LIEU OF THIS DOCUMENT UNLESS SPECIFICALLY PURCHASED BY THE OWNER.

B. PROVIDE A MINIMUM OF 4 COPIES OF OPERATIONS AND MAINTENANCE MANUALS.

1.9 TRAINING

A. A MINIMUM OF 2 HOURS OF INSTRUCTION/TRAINING SHALL BE PROVIDED TO OWNER DESIGNATED PERSONNEL.
1. BEFORE FINAL INSPECTION AT A TIME DESIGNATED BY THE PROFESSIONAL, CM OR OWNER, PROVIDE A COMPETENT REPRESENTATIVE TO INSTRUCT OWNER'S DESIGNATED PERSONNEL IN OPERATION, ADJUSTMENT, AND MAINTENANCE OF PRODUCTS, EQUIPMENT, AND SYSTEMS UNDER THIS DIVISION OF THE SPECIFICATIONS. FOR EQUIPMENT REQUIRING SEASONAL OPERATION, PERFORM INSTRUCTION FOR OTHER SEASONS WITHIN SIX MONTHS UNLESS REQUESTED OTHERWISE.
2. THE INFORMATION PROVIDED FOR THE OPERATION AND MAINTENANCE MANUALS SHALL BE USED AS BASIS OF INSTRUCTION. REVIEW CONTENTS OF SAID MANUAL WITH PERSONNEL IN DETAIL TO EXPLAIN ALL ASPECTS OF OPERATION AND MAINTENANCE.
3. PREPARE AND INSERT ADDITIONAL DATA IN THE OPERATION AND MAINTENANCE MANUAL WHEN THE NEED FOR SUCH DATA BECOMES APPARENT DURING INSTRUCTION.

1.10 RECORD DOCUMENTS

A. REFER TO THE FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATED TO RECORD DOCUMENTS AND RELATED SUBMITTALS.

B. AS-BUILT DOCUMENTS - UPON COMPLETION OF APPROVALS, INSTALLATION, TESTING, AND ACCEPTANCE THEREOF OF EACH PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TO THE OWNER ONE COMPLETE SET OF REPRODUCIBLE DRAWINGS, ONE SET OF CADD ELECTRONIC DRAWINGS, AND ONE SET OF CORRESPONDING HYDRAULIC AS-BUILT CALCULATIONS.

1.11 CONTRACT DRAWINGS

A. THE DRAWINGS ARE DIAGRAMMATIC AND ARE INDICATIVE OF THE WORK TO BE PERFORMED AND SHOW GENERAL LOCATIONS OF MAIN PIPING AND EQUIPMENT. HOWEVER, IT IS NOT INTENDED THAT THEY SHOW EVERY PIPE, FITTING, OR APPARATUS REQUIRED FOR A COMPLETE INSTALLATION.

B. WHEN SPRINKLER HEAD LOCATIONS ARE SHOWN ON THE FIRE PROTECTION CONTRACT DRAWINGS OR CLEARLY ARCHITECTURAL REFLECTED CEILING PLANS, THEY ARE ALSO DIAGRAMMATIC AND ARE INDICATIVE OF THE WORK TO BE PERFORMED. CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINAL LOCATIONS IN ACCORDANCE WITH NFPA 13 AND THE REFLECTED CEILING PLANS.

C. WHERE A DEVIATION TO PIPE ROUTING, EQUIPMENT ARRANGEMENT OR PIPE SIZE IS INDICATED, THE FIRE PROTECTION CONTRACT DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT UNLESS PRIOR APPROVAL IS GRANTED BY THE PROFESSIONAL. THE CONTRACTOR MAY IMPROVE UPON EQUIPMENT LOCATIONS AND PIPE ROUTINGS AS REQUIRED TO FACILITATE THE PROPER INSTALLATION OF THE SYSTEM.

D. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INSTALLATION OF ALL MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION WITHIN THE INTENT AND MEANING OF THE FIRE PROTECTION CONTRACT DOCUMENTS AND NFPA 13.

E. THE CONTRACTOR SHALL FOLLOW DRAWINGS AND SPECIFICATIONS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER DISCIPLINES RELATING TO WORK TO VERIFY SPACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL FIRE PROTECTION EQUIPMENT AND WATER SERVICE CONNECTIONS. SCALING DRAWINGS WITHOUT FIELD VERIFICATION IS NOT SUFFICIENT.

F. EQUIPMENT LAYOUT IS BASED ON ONE PARTICULAR MANUFACTURER'S PRODUCT. WHERE EQUIPMENT SELECTED BY THE CONTRACTOR FOR USE ON THE JOB DIFFERS FROM THE LAYOUT INDICATED ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SPACE REQUIREMENTS AND CONNECTION ARRANGEMENTS.

1.12 COORDINATION

A. THE CONTRACTOR SHALL PARTICIPATE IN THE DEVELOPMENT OF INTER-TRADE COORDINATION DRAWINGS.

B. THE CONTRACTOR MUST COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTORS SO THAT THE WORK OF ALL TRADES WILL BE PERFORMED IN AN ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCE. IN THE CASE WHERE INTERFERENCE WITH THE WORK OF OTHER CONTRACTORS SHOULD OCCUR, THE DECISION OF THE PROFESSIONAL OR CONSTRUCTION MANAGER AS TO CHANGES TO BE MADE IN THE WORK SHALL BE FINAL.

C. THE CONTRACTOR MUST THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SPECIFICATIONS AND DRAWINGS FOR THE PROJECT SO THAT HE CLEARLY UNDERSTANDS HIS RESPONSIBILITY IN RELATIONSHIP TO THE WORK TO BE PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR MUST PLAN AND PERFORM HIS WORK SO AS TO PERMIT THE USE OF THE BUILDING AT THE EARLIEST POSSIBLE DATE.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIRE PROTECTION EQUIPMENT LOCATIONS WITH THE LOCATIONS OF ALL LIGHTING FIXTURES, HVAC DIFFUSERS, CEILING ARCHITECTURAL FEATURES, AND STRUCTURAL MEMBERS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL FIRE PROTECTION PIPING AND EQUIPMENT WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES TO PREVENT OBSTRUCTIONS TO THE REQUIRED SPRINKLER DISCHARGE PATTERN.

E. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS OF ALL FIRE PROTECTION PIPING WITH RESPECT TO ELECTRICAL EQUIPMENT AND THE NEC. ROUTING OF PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT SHALL BE AVOIDED.

F. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF FIRE PROTECTION SYSTEM PIPING WITH RESPECT TO FRESH AIR INTAKE LOUVERS. ROUTING OF PIPING DIRECTLY IN FRONT OF SUCH LOUVERS SHALL BE AVOIDED DUE TO POTENTIAL FREEZING CONDITIONS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS FOR ALL LOUVERS. ALL LOUVERS SHALL BE SHOWN ON THE SHOP DRAWING SUBMITTALS.

1.13 CUTTING, PATCHING, AND FINISHING

A. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL CUT, PATCH AND FINISH ALL PENETRATIONS AND OPENINGS IN WALLS, AND FLOOR/CEILING ASSEMBLIES REQUIRED FOR THE INSTALLATION OF WORK TO BE PERFORMED UNDER THIS CONTRACT IN ACCORDANCE WITH THIS SECTION OF THE SPECIFICATION AND ANY ADDITIONAL FRONT END SPECIFICATION REQUIREMENTS. ALL PATCHING AND FINISHING SHALL MATCH EXISTING ADJACENT UNDISTURBED SURFACES.

B. PENETRATIONS MADE IN EXISTING OR NEW FIRE RATED CHASES, PARTITIONS, FLOORS, ETC. SHALL BE SEALED WITH AN APPROVED MATERIAL AND METHOD AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION IN ACCORDANCE WITH A UL METHOD AS WELL AS ANY ADDITIONAL REQUIREMENTS HEREIN.

C. CUTTING OF THE CONSTRUCTION EXCESSIVELY OR CARELESSLY DONE SHALL BE REPAIRED TO MATCH THE ORIGINAL WORK BY THE CONTRACTOR AND TO THE SATISFACTION OF THE PROFESSIONAL, OWNER, AND CONSTRUCTION MANAGER WHO WILL MAKE THE FINAL DECISION WITH RESPECT TO EXCESSIVE OR CARELESS CUTTING WORK. THE CONTRACTOR SHALL SEAL ALL OPENINGS MADE IN PLENUM SPACES, FIRE RATED FLOORS, CEILINGS OR PARTITIONS AFTER ALL WORK HAS BEEN INSTALLED. THE MATERIAL USED FOR SEALING THE OPENINGS SHALL HAVE A FIRE RATING EQUAL TO OR GREATER THAN THE RATING OF THE FLOOR, CEILING OR PARTITION MATERIAL.

D. WHERE PRESENT EQUIPMENT IS REMOVED AND UNUSED OPENING REMAIN IN WALLS, FLOORS, PARTITIONS, ETC., THE CONTRACTOR SHALL PROPERLY PATCH ALL SUCH OPENINGS EXCEPT AS HEREINAFTER SPECIFIED UNDER "WORK BY OTHERS". ALL PATCHING AND REPAIRING SHALL BE DONE BY WORKMEN SKILLED IN THIS TYPE OF WORK AND SHALL MATCH PRESENT OR NEW FINISHES.

E. NO CUTTING SHALL BE DONE WHICH MAY AFFECT THE BUILDING STRUCTURALLY OR ARCHITECTURALLY WITHOUT FIRST SECURING THE APPROVAL OF THE PROFESSIONAL. CUTTING SHALL BE ACCOMPLISHED IN SUCH A MANNER AS NOT TO CAUSE DAMAGE TO THE BUILDING OR LEAVE UNSIGHTLY SURFACES THAT CANNOT BE CONCEALED BY PLATES, ESCUTCHEONS OR OTHER CONSTRUCTION. CUTTING SHALL NOT CAUSE DAMAGE TO THE BUILDING OR LEAVE UNSIGHTLY SURFACES. WHERE SUCH UNSIGHTLY CONDITIONS ARE CAUSED, THE CONTRACTOR SHALL BE REQUIRED, AT HIS OWN EXPENSE, TO REPAIR THE DAMAGED AREAS.

F. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT APPROVAL.

G. THE CONTRACTOR SHALL CONTACT THE HOLDER OF THE GUARANTEE AND OBTAIN WRITTEN APPROVAL BEFORE CUTTING THE ROOFING MEMBRANE SO AS NOT TO VOID SAID GUARANTEE.

H. THE CONTRACTOR SHALL SET ALL SLEEVES, HANGERS, AND ANCHORS REQUIRED FOR THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR THEIR PROPER AND PERMANENT LOCATION.

1.14 SPRINKLER SYSTEM DESIGN

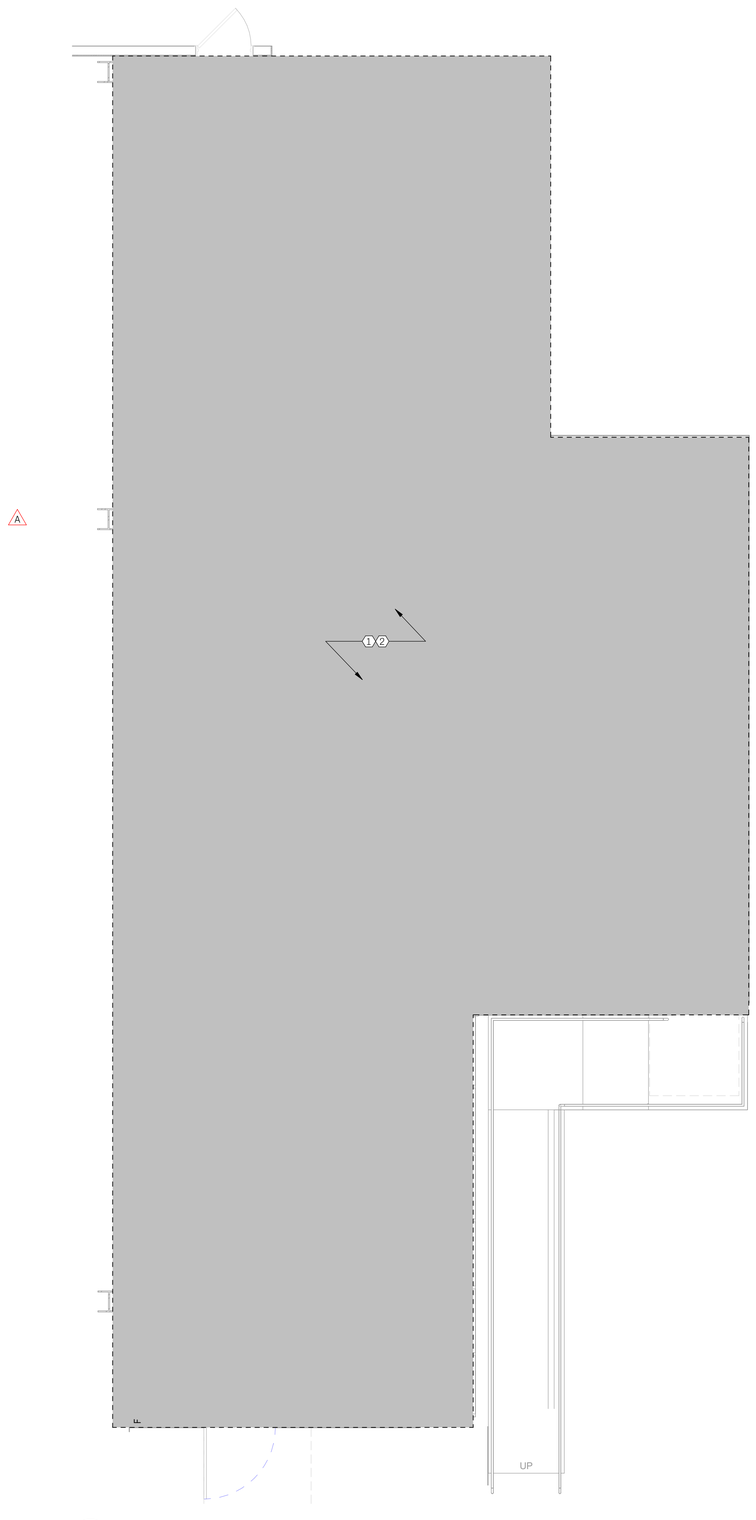
A. THE CONTRACTOR SHALL SURVEY THE INSTALLATION SITE PRIOR TO SUBMISSION OF HIS BID. HE SHALL DETERMINE THE CONSTRAINTS OF THE EXISTING AVAILABLE SPACE PERTAINING TO EQUIPMENT SIZE AND CONFIGURATION AND TO EXAMINE THE CONDITIONS UNDER WHICH THE EQUIPMENT WILL BE INSTALLED. VERIFY ALL MEASUREMENTS AT THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL COMPATIBILITY OF THE EQUIPMENT WITH THE SPACE.

B. HYDRAULIC CALCULATIONS SHALL BE DONE UTILIZING THE AREA/DENSITY METHOD OUTLINED IN NFPA 13 AND SHALL ENTAIL ALL PERTINENT PIPING INCLUDING ALL OUTSIDE UNDERGROUND EXTENDING TO THE POINT OF THE AFOREMENTIONED CONFIRMING WATER FLOW TEST DATA.

C. HYDRAULIC CALCULATIONS SHALL NOT BE DONE UTILIZING THE ROOM DESIGN METHOD PROVIDED IN NFPA 13.

D. THE HYDRAULIC CALCULATIONS SHALL USE THE C VALUES LISTED IN NFPA 13.

E. HYDRAULIC CALCULATIONS SHALL ACCOUNT FOR FLEXHEAD PIPING IN DESIGN. SPECIFY THE NUMBER OF BENDS AND LENGTH OF FLEXHEAD USED IN INSTALLATION AND



1 F-100 FIRE PROTECTION - FLOOR PLAN - FIRE PROTECTION
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

A. IT IS THE RESPONSIBILITY OF THE GENERAL, FIRE ALARM, AND FIRE PROTECTION CONTRACTORS TO FULLY INSPECT THE SITE PRIOR TO ANY DEMOLITION WORK.

B. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, BAR JOISTS, COLUMNS, ETC. AND COORDINATE DUCT LOCATIONS ACCORDINGLY.

C. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING FIRE ALARM SYSTEM AND FIRE SPRINKLER SYSTEM COMPONENTS (SUCH AS FIRE ALARM PANELS, FIRE ALARM CONDUITS, FIRE SPRINKLER MAINS, FIRE SPRINKLER VALVE ASSEMBLIES, ETC...) CONTRACTOR SHALL PERFORM DEMOLITION AND MODIFICATION WORK TO THE EXISTING FIRE ALARM AND FIRE SPRINKLER SYSTEMS AS NECESSARY FOR SCOPE OF WORK SHOWN ON THESE DRAWINGS.

D. CONTRACTOR IS RESPONSIBLE FOR PRESERVING ALL FIRE ALARM CIRCUITS AND FIRE SPRINKLER PIPING THAT IS TO REMAIN OR THAT SERVES ANY EXISTING FIRE PROTECTION SYSTEMS OUTSIDE THE PROJECT AREA OF WORK.

DEMOLITION KEY NOTES

1. DEMOLISH EXISTING FIRE ALARM SYSTEM IN PROJECT AREA OF WORK. FIRE ALARM CONTRACTOR MAY PRESERVE AND REUSE CIRCUIT / CONDUIT RUNS IF IN GOOD CONDITION (NO TROUBLE SIGNAL ON EXISTING FACP) AND IS UNDAMAGED. FIRE ALARM NOTIFICATION DEVICES MAY NOT BE REUSED.

2. DEMOLISH EXISTING FIRE SPRINKLER SYSTEM IN PROJECT AREA OF WORK. FIRE SPRINKLER CONTRACTOR MAY PRESERVE AND REUSE FIRE SPRINKLER MAINS AND/OR BRANCHES IF IN GOOD CONDITION (NO LEAKS OR SIGNS OF EXTERNAL CORROSION) AND IS UNDAMAGED. CONTRACTOR SHALL REMOVE EXISTING FIRE SPRINKLER HEADS AND ARMOVERS. FIRE SPRINKLER HEADS AND ARMOVER PIPING MAY NOT BE REUSED.

sg

sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

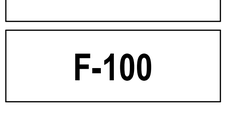
THESE DRAWINGS & SPECIFICATIONS ARE CONFIDENTIAL AND SHALL REMAIN THE SOLE PROPERTY OF SWEETGREEN CORPORATION. THEY SHALL NOT BE REPRODUCED (IN WHOLE OR IN PART), SHARED WITH THIRD PARTIES OR USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF SWEETGREEN CORPORATION. THESE DRAWINGS & SPECIFICATIONS ARE INTENDED TO EXPRESS DESIGN INTENT FOR A PROTOTYPICAL SWEETGREEN STORE (WHICH IS SUBJECT TO CHANGE AT ANY TIME) AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. NEITHER PARTY SHALL HAVE ANY OBLIGATION NOR LIABILITY TO THE OTHER (EXCEPT AS STATED ABOVE) UNTIL A WRITTEN AGREEMENT IS FULLY EXECUTED.

ENGINEER OF RECORD:

WOLF ENGINEERING

P.O. BOX 38 | DALTON, GA 30722

STAMP:



PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
**1710 COMMONWEALTH AVE.,
SUITE 123
CHARLOTTE, NC 28205**

DRAWN BY:	JB
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT

FIRE ALARM & PROTECTION DEMO PLAN

F-100

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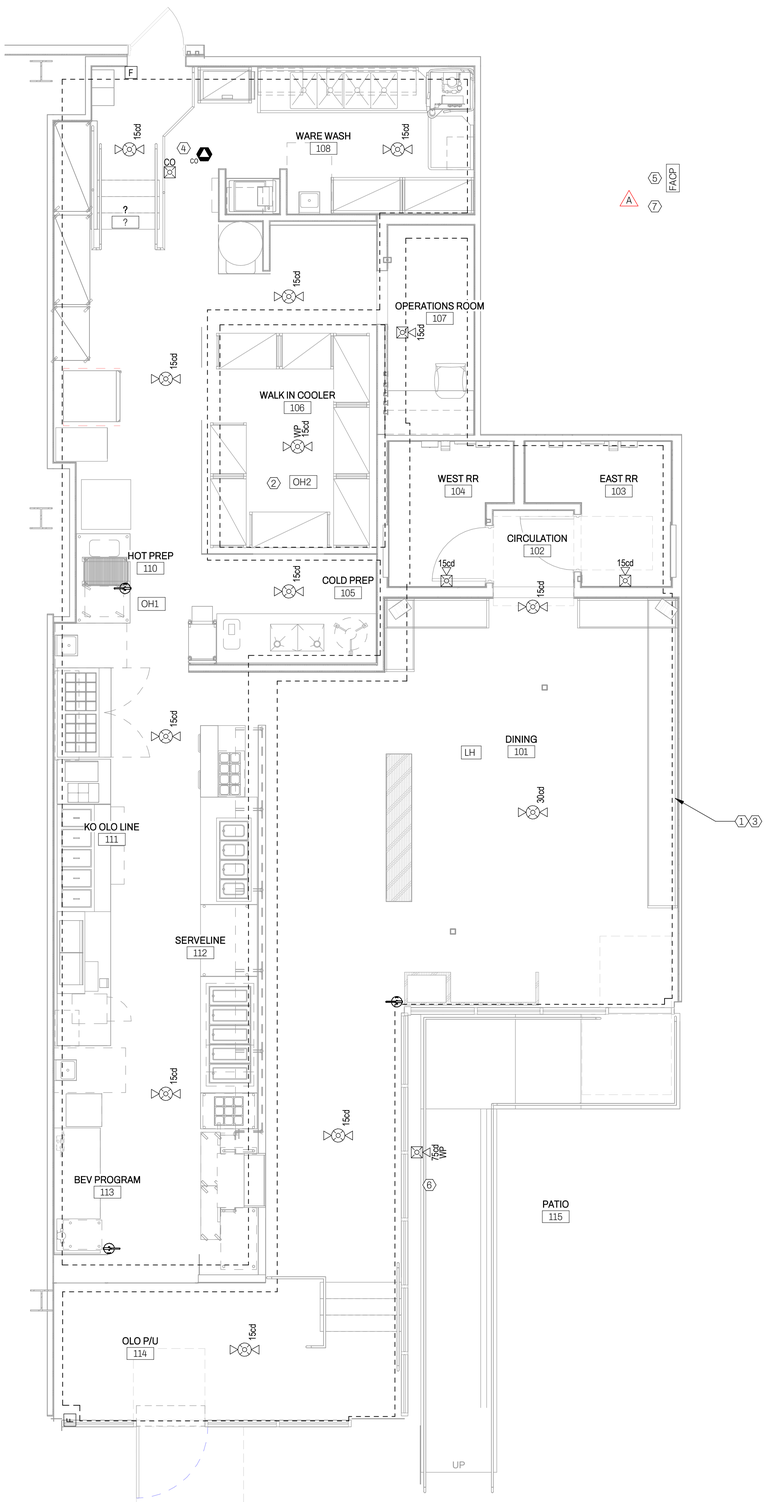

1 FIRE PROTECTION - FLOOR PLAN - FIRE PROTECTION
F-101 1/4" = 1'-0"

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MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
SPRINKLER HEAD	EXPOSED STRUCTURE CEILING	WHITE UPRIGHT
	GYPSUM BOARD CEILING	CONCEALED PENDANT WITH COVER PLATE TO MATCH CEILING COLOR
	LAY-IN CEILING	WHITE RECESSED PENDANT WITH WHITE ESCUTCHEON
	WOOD CEILING	BRASS CONCEALED PENDANT WITH BRASS COVER PLATE
	WALK-IN COOLER	FREEZE-PROOF PENDENT
ALARM DEVICE	WALL-MOUNTED HORN AND/OR STROBE	WHITE WITH RED LETTERING
	CEILING-MOUNTED HORN AND/OR STROBE	WHITE WITH RED LETTERING
	MANUAL PULL STATION	RED WITH RED LETTERING

GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE GENERAL, FIRE ALARM, AND FIRE PROTECTION CONTRACTORS TO FULLY INSPECT THE SITE PRIOR TO COMMENCEMENT.

B. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, BAR JOISTS, COLUMNS, ETC. AND COORDINATE DUCT LOCATIONS ACCORDINGLY.

C. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING FIRE ALARM SYSTEM AND FIRE SPRINKLER SYSTEM COMPONENTS (SUCH AS FIRE ALARM PANELS, FIRE ALARM CONDUITS, FIRE SPRINKLER MAINS, FIRE SPRINKLER VALVE ASSEMBLIES, ETC...) CONTRACTOR SHALL PERFORM DEMOLITION AND MODIFICATION WORK TO THE EXISTING FIRE ALARM AND FIRE SPRINKLER SYSTEMS AS NECESSARY FOR SCOPE OF WORK SHOWN ON THESE DRAWINGS.

D. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DEVICES ON THE REFLECTED CEILING PLAN WITH OTHER DISCIPLINES.

E. CONTRACTOR IS RESPONSIBLE FOR INSTALLING COMPLETE, FULLY FUNCTIONAL, AND CODE COMPLIANT FIRE ALARM AND FIRE SPRINKLER SYSTEMS PER NORTH CAROLINA BUILDING CODE, NFPA 13, NFPA 70, AND NFPA 72.

F. ALL CEILING MOUNTED FIRE ALARM DEVICES AND FIRE SPRINKLERS SHALL BE CENTERED IN THE CEILING TILES AND COORDINATED WITH THE REFLECTED CEILING PLAN. COORDINATE WITH ARCHITECTURAL DRAWINGS.

A

G. ALL FIRE ALARM AUDIBLE NOTIFICATION DEVICES SHOWN ON DRAWING REPRESENT SPEAKER DEVICES CAPABLE OF RELAYING EMERGENCY VOICE EVACUATION MESSAGES.

KEY NOTES

1. EXTEND THE EXISTING BUILDING FIRE SPRINKLER TO PROTECT THE NEW AREA OF WORK. REFER TO MATERIAL SCHEDULE ON THIS SHEET.
2. PROVIDE DRY TYPE PENDENT SPRINKLERS FOR PROTECTION OF COOLER ROOM.
3. EXTEND THE EXISTING BUILDING FIRE ALARM SYSTEM TO PROTECT THE NEW AREA OF WORK. ALL NEW FIRE ALARM DEVICES AND EQUIPMENT SHALL MATCH THE EXISTING MAKE/MODEL OF EXISTING FIRE ALARM SYSTEM. REFER TO MATERIAL SCHEDULE ON THIS SHEET.
4. INSTALL CARBON MONOXIDE (CO) DETECTOR NEAR GAS FUELED EQUIPMENT. INSTALL BLUE-COLORED LENS STROBE DEVICE ACTIVATED ONLY BY CO DETECTOR SIGNAL.
5. EXISTING FIRE ALARM CONTROL PANEL LOCATED IN FIRE COMMAND CENTER. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PANEL PRIOR TO ANY MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM.
6. PROVIDE SURGE SUPPRESSION DEVICES FOR FIRE ALARM CIRCUITS SERVING EXTERIOR FIRE ALARM DEVICES.

A

7. ALL FIRE ALARM NOTIFICATION DEVICES SHALL BE MONITORED BY TWO DEDICATED PHONE LINES AS REQUIRED BY NFPA 72.

ALARM SEQUENCE OF OPERATIONS

NORMAL OPERATION

UNOCCUPIED MODE:
SUPPLY FANS: DURING AN ALARM STATE, AS INDICATED BY THE DUCTMOUNTED SMOKE DETECTOR IN THE RETURN AIRSTREAM, OR OTHER INITIATING DEVICE, THE UNIT SUPPLY FAN SHALL BE DE-ENERGIZED.

EXHAUST FANS: DURING AN ALARM STATE, ALL EXHAUST FANS SHALL BE DE-ENERGIZED. OUTSIDE AIR DAMPERS: DURING AN ALARM STATE ALL OUTSIDE AIR DAMPERS SHALL GO TO THE CLOSED POSITION.

MUSIC SYSTEM: DURING AN ALARM STATE, THE MUSIC SYSTEM SHALL BE DISABLED.

OCCUPIED MODE:
SUPPLY FANS: DURING AN ALARM STATE, AS INDICATED FROM THE DUCTMOUNTED SMOKE DETECTOR MOUNTED IN THE RETURN AIRSTREAM OR OTHER INITIATING DEVICE, THE UNIT SUPPLY FAN SHALL BE DEENERGIZED.

EXHAUST FANS: DURING AN ALARM STATE, ALL EXHAUST FANS SHALL BE DE-ENERGIZED. OUTSIDE AIR DAMPERS: DURING AN ALARM STATE ALL OUTSIDE AIR DAMPERS SHALL GO TO THE CLOSED POSITION.

MUSIC SYSTEM: DURING AN ALARM STATE, THE MUSIC SYSTEM SHALL BE DISABLED.

sg

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SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT

FIRE ALARM & PROTECTION OVERALL PLAN

F-101

NOTES:

1. THE TYPE OF DEVICE AT THIS LOCATION WILL DEPEND ON THE MANUFACTURER'S EQUIPMENT. NOTHING IN THE DESIGN DOCUMENTS IS INTENDED, NOR SHOULD IT BE CONSTRUED, TO LIMIT THE TYPES OF DEVICES THAT MAY BE USED, PROVIDED THE INTENDED SYSTEM PERFORMANCE IS ACHIEVED AND WITHIN THE UL LISTING.
2. THE DEVICES SHOWN ON THE RISER DIAGRAM ARE REPRESENTATIVE OF THOSE TO BE PROVIDED THROUGHOUT THE BUILDING. THEY ARE NOT INTENDED TO SHOW TOTAL QUANTITIES OF DEVICES. THE CONTRACTOR SHALL REFER TO THE FLOOR PLANS FOR THIS INFORMATION.
3. THE SIGNALING LINE CIRCUIT MAY BE T-TAPPED, PROVIDED THE LOCATION OF THE T-TAP IS CLEARLY SHOWN ON THE SHOP DRAWINGS, IS PERFORMED IN A JUNCTION BOX, AND IS MADE WITH A TERMINAL STRIP. PIG TAILING IS NOT PERMITTED.
4. ADDRESSABLE INTERFACE MODULES ARE REQUIRED FOR NON-ADDRESSABLE INITIATING AND INDICATING DEVICES FOR CONNECTION TO THE FIRE ALARM SYSTEM. SEE THE WIRING SCHEMATICS ON THIS DRAWING FOR ADDITIONAL INFORMATION.
5. PROVIDE REMOTE NOTIFICATION APPLIANCE CIRCUIT POWER BOOSTER PANELS AS REQUIRED.
6. AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES SHALL BE WIRED SEPARATELY OR SEPARATELY CONTROLLED.
7. THE LOCATION AND TYPE OF INTERFACE DEVICE FOR CONNECTION TO THE MONITORING SERVICE MUST BE COORDINATED WITH CONTRACTING SERVICE COMPANY.
8. PROVIDE A SMOKE DETECTOR ABOVE ALL CONTROL PANELS (TYPICAL).

1 F-401 EXAMPLE FIRE ALARM SYSTEM RISER
1/8" = 1'-0"

7/29/2025 1:40:16 AM

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FIRE ALARM DETAILS

F-401

MECHANICAL ABBREVIATIONS

ABV	ABOVE
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
ARCH	ARCHITECT/ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
D	DEGREE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
E/A	EXHAUST AIR
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FL	FLOOR
FPM	FEET PER MINUTE
FT	FOOT/FEET
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HTG	HEATING
IN	INCH
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LB/HR	POUNDS PER HOUR
LWT	LEAVING WATER TEMPERATURE
M/A	MIXED AIR
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
Ø	ROUND
O/A	OUTSIDE AIR
PD	PRESSURE DROP
PLBG	PLUMBING
PWR	POWER
R	DUCT RISER
R/A	RETURN AIR
RE	RETURN/EXHAUST FAN
RH	RELATIVE HUMIDITY
RL/A	RELIEF AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S/A	SUPPLY AIR
SF	SQUARE FOOT
SP	STATIC PRESSURE
STM	STEAM
T	THERMOSTAT
TD	TEMPERATURE DROP
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
WB	WET BULB

MECHANICAL SYMBOL LEGEND

DUCTWORK

- 24"x12" — SQ. DUCT SIZE (WIDTH X HEIGHT)
- 24"/12" — OVAL DUCT SIZE (WIDTH / HEIGHT)
- 18"Ø — ROUND DUCT SIZE (DIAMETER)
- (E) — EXISTING DUCT TO REMAIN
- DUCT TO BE DEMOLISHED
- S/A — SUPPLY AIR
- O/A — OUTDOOR AIR
- R/A — RETURN AIR
- E/A — GENERAL EXHAUST AIR
- KED — KITCHEN EXHAUST DUCT
- LH — LABORATORY FUME EXHAUST
- FLUE — FLUE GAS VENT
- RECT. SUPPLY DUCT RISE / DROP
- ROUND SUPPLY DUCT RISE / DROP
- RECT. RETURN DUCT RISE / DROP
- ROUND RETURN DUCT RISE / DROP
- RECT. EXHAUST DUCT RISE / DROP
- ROUND EXHAUST DUCT RISE / DROP

DIFFUSER/GRILLES

- S-1 | 200 / 8"Ø/24x24 — TYPE (SEE SCHEDULE); AIRFLOW; NECK SIZE / MODULE SIZE
- S-4 | 500 / 12"Ø/22Ø / TYP. X 4 — AIRFLOW; NECK SIZE; TYPE COUNT FOR SPACE
- AIRFLOW; NOMINAL NECK SIZE
- S-5 | 200 / 8"Ø/2s/48"L — AIRFLOW; NECK SIZE/ SLOT(S)/ ACTIVE LENGTH
- R-1 | 200 / 22"x22"/24x24 — AIRFLOW; NECK SIZE / MODULE SIZE

MECHANICAL EQUIPMENT

- RTU-1 — UNIT IDENTITY
- (E)AHU-2 — EXISTING TO REMAIN EQUIPMENT
- (R)AHU-3 — EXISTING RELOCATED EQUIPMENT

DUCT ACCESSORIES

- BALANCING DAMPER
- (M) MOTORIZED DAMPER
- BACKDRAFT DAMPER
- SMOKE DAMPER
- FIRE DAMPER
- COMB. FIRE/SMOKE DAMPER
- (S) DUCT SMOKE DETECTOR

MECHANICAL DEVICES

- (AHU-1) — UNIT IDENTITY
- (TS) TEMPERATURE SENSOR
- (TH) TEMP/HUMIDITY SENSOR
- (TC) TEMP/CO2 SENSOR
- (T) THERMOSTAT
- (H) HUMIDISTAT
- CO2 CARBON DIOXIDE DETECTOR
- CO CARBON MONOXIDE DETECTOR
- NO2 NITROGEN DIOXIDE DETECTOR

GENERAL PLAN SYMBOLS

- # — PLAN REVISION NUMBER
- # / M-# — DETAIL NUMBER ON SHEET; SHEET NUMBER WHERE DETAIL IS PLACED
- (#) KEYNOTE SYMBOL
- CONTINUATION SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- ROOM / 001 — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT

MECHANICAL GENERAL NOTES

A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.

B. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. MECHANICAL PLANS ARE GENERAL DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, STRUCTURAL AND INTERIOR DESIGNER PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. PROVIDE OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS AS MAY BE NECESSARY TO FIT ACTUAL SPACE CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.

C. THE OWNER, OPERATOR, ARCHITECT NOR ENGINEER ARE RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS, MEANS AND METHODS, WORK TECHNIQUES, CONSTRUCTION SEQUENCE, OR PROCEDURES REQUIRED TO COMPLETE THE WORK.

D. COORDINATE WITH ELECTRICAL, PLUMBING, STRUCTURAL, FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE MECHANICAL SYSTEM(S) AS DETAILED ON THE DRAWINGS AND SPECIFICATIONS. WORK CONSISTS OF PROVIDING ALL MATERIALS, EQUIPMENT, APPURTENANCES, ETC. REQUIRED FOR A COMPLETE SYSTEM(S). INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIALS, LABOR, PERMITS, SERVICES, ETC. NECESSARY TO MAKE WORK COMPLETE AND READY FOR OPERATION. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.

E. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING CONFLICTS IN THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING AND REPORTING CONFLICTS TO THE ENGINEER BEFORE BIDDING. ANY CHANGES RESULTING FROM CONFLICTS IN THE FIELD, WHICH WERE NOT BROUGHT TO THE ENGINEERS ATTENTION, ARE TO BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

F. CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.

G. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO COMMENCEMENT OF WORK OR ORDERING EQUIPMENT. CONTRACTOR SHALL BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.

H. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTING, ETC.

I. CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

J. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.

K. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, CONTROLS AND ACCESSORIES COORDINATED WITH ALL TRADES AT ONE TIME, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT WITHOUT APPROVAL FROM ENGINEER, ARCHITECT, OWNER, AND INTERIOR DESIGNER (IF APPLICABLE).

L. COORDINATE EXACT LOCATION OF ALL DIFFUSERS AND RETURNS WITH ARCHITECTURAL REFLECTED CEILING PLAN.

M. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL CONCEALED MECHANICAL EQUIPMENT. PANELS IN RATED WALLS OR CEILINGS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL OR CEILING IN WHICH IS INSTALLED.

N. LOCATE THERMOSTATS, TEMPERATURE SENSORS, CONTROLLERS, C02 SENSORS, AND HUMIDITY SENSORS ABOVE FINISHED FLOOR AS PER ACCESSIBILITY CODE SECTION 5 REQUIREMENT 5. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO PURCHASING/INSTALLATION.

O. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.

P. CONTRACTOR SHALL PROVIDE A CERTIFIED TEST & BALANCE REPORT AT COMPLETION OF PROJECT PRIOR TO FINAL INSPECTION. IT SHALL BE DONE BY AN INDEPENDENT COMPANY FOR ALL MECHANICAL EQUIPMENT, AIR AND WATER DEVICES, DAMPERS, AND ANY AIR MOVING SYSTEMS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE AABC OR NEBB STANDARDS AND PROCEDURES AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM SUPPLY GRILLES, EVAPORATORS, ENERGY RECOVERY UNITS AND ANY TYPE OF HEAT EXCHANGERS. CONTRACTOR SHALL INCLUDE COSTS NECESSARY (PART OF BID) TO MAKE ONE CHANGE IN EACH UNITS SHEAVE, BUSHINGS AND BELTS, BALANCING DAMPERS REQUIRED AND ANY OTHER DEVICES REQUIRED FOR THE CORRECT BALANCE OF THE SYSTEM AS REQUIRED BY THE TAB FIRM.

Q. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES FOR ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.

R. REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL ITEMS GENERATED AS CONSTRUCTION DEBRIS AS A RESULT OF NEW WORK OF THIS PROJECT.

S. ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.

T. ENGINEER HAS VERIFIED DIMENSIONAL AND PERFORMANCE SUITABILITY OF BASIS-OF-DESIGN EQUIPMENT MANUFACTURERS AS LISTED IN THE EQUIPMENT SCHEDULES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY UNIT PROPOSED TO BE INSTALLED FITS ALL REQUIRED PROJECT DIMENSIONS AND MEETS ALL SCHEDULED OR SPECIFIED PERFORMANCE CRITERIA PRIOR TO BID. ANY ADDITIONAL WORK DUE TO EQUIPMENT OTHER THAN THAT SPECIFIED AS 'BASIS-OF-DESIGN' SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

U. UNDERCUT DOORS BY 3/4" TO ALLOW RETURN OR EXHAUST AIR FLOW. COORDINATE WITH ARCHITECTURAL DRAWINGS AND WITH GENERAL CONTRACTOR.

V. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS IN THE FIELD WITH THE ARCHITECT AND THE OWNER LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

MECHANICAL GENERAL DUCTWORK NOTES

A. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.

B. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD AND DETAILS ON THESE PLANS.

C. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS WITH EXTRACTOR FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLIANCE AIR FLOW FOR BALANCED RETURN TRANSFER AIR FLOW. REMOTE CABLE OPERATED DAMPERS SHALL BE PROVIDED IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR OR EQUAL".

D. ALL DAMPER CONTROLS SHALL BE ACCESSIBLE.

E. ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS, SLABS AND CEILINGS SHALL BE WITH AN ACCESSIBLE U.L. LABELED FIRE DAMPER OR WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S LISTED DETAILS AND SPECS.

F. ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.

G. SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR ITS PRESSURE CLASS SEALING METHODS.

H. ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 25/50.

MECHANICAL SHEET INDEX

M-001	MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS
M-010	MECHANICAL SPECIFICATIONS
M-011	MECHANICAL SPECIFICATIONS
M-020	MECHANICAL COMPLIANCE FORMS
M-021	MECHANICAL COMPLIANCE FORMS
M-100	HVAC PLAN
M-101	HVAC MEZZANINE AND GARAGE PLAN
M-300	HVAC SCHEDULES
M-400	HVAC DETAILS

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4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS

M-001

9/9/2025 8:33:50 PM

SECTION 230500 - BASIC MECHANICAL REQUIREMENTS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE GENERAL ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR THE INSTALLATION OF MECHANICAL SYSTEMS.
B. WHEN USED IN THESE SPECIFICATIONS THE TERM "PROVIDE" IS DEFINED TO MEAN TO " FURNISH AND INSTALL" MATERIALS, EQUIPMENT, ETC.

1.2 APPLICABLE STANDARDS
A. APPLICABILITY OF STANDARDS: EXCEPT WHERE THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.
B. CONFLICTING REQUIREMENTS: WHERE COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED, AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, REFER REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, AND UNCERTAINTIES TO THE ARCHITECT FOR A DECISION BEFORE PROCEEDING.
C. PUBLICATION DATES: WHERE THE DATE OF ISSUE OF A REFERENCED STANDARD IS NOT SPECIFIED, COMPLY WITH THE STANDARD IN EFFECT AS OF DATE OF CONTRACT DOCUMENTS.
D. COMPLY WITH THE REQUIREMENTS OF APPLICABLE LOCAL PLUMBING, MECHANICAL, FIRE PROTECTION, AND BUILDING CODES.

1.3 CONSTRUCTION PERMITS AND INSPECTIONS
A. CONTRACTOR SHALL FILE FOR AND OBTAIN ALL REQUIRED PERMITS AND LICENSES, AND PAY ALL RELATED INSPECTION AND PERMITTING FEES, AS REQUIRED FOR THE EXECUTION OF THE CONTRACT. ARRANGE FOR NECESSARY INSPECTIONS REQUIRED BY CITY, COUNTY, STATE AND OTHER AUTHORITIES HAVING JURISDICTION IN A TIMELY MANNER AND AS REQUIRED OVER THE COMPLETE COURSE OF CONSTRUCTION. DELIVER INSPECTION CERTIFICATES AND WRITTEN APPROVAL NOTICES TO THE OWNER AT CONTRACT CLOSEOUT. THOSE ITEMS AND SYSTEMS DEEMED CRITICAL OR REQUIRED TO OBTAIN A COMPLETED CERTIFICATE OF OCCUPANCY SHALL TAKE PRIORITY OVER NON-CRITICAL ITEMS.

1.4 WORKMANSHIP AND QUALIFICATIONS
A. ALL EQUIPMENT, MATERIALS, SPECIALTIES, ETC., SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND STANDARDS FOR THIS TYPE WORK. UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS, THE RECOMMENDATIONS AND INSTRUCTIONS OF THE MANUFACTURER SHALL BE FOLLOWED FOR INSTALLING THE WORK.

1.5 SUBMITTALS
A. PRIOR TO THE PERFORMANCE OF ANY WORK OR INSTALLATION OF ANY MATERIALS, OBTAIN APPROVAL FROM THE ARCHITECT BY SUBMITTING SHOP DRAWINGS AND DATA SHEETS.
B. SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES WILL BE ACCEPTED ONLY WHEN SUBMITTED BY THE CONTRACTOR. DATA SUBMITTED FROM SUBCONTRACTORS AND MATERIAL SUPPLIERS DIRECTLY TO THE ENGINEER OF RECORD WILL NOT BE PROCESSED.
C. ANY ITEM WITH A TAG NUMBER MUST BE SUBMITTED FOR REVIEW. SUBMITTALS SHALL PROVIDE ALL PERTINENT DATA AND INFORMATION NECESSARY TO EVALUATE EACH ITEM. IN ADDITION TO THE REQUIREMENTS OUTLINED IN THE SPECIFIC DIVISION 23 SECTIONS, ALL SUBMITTALS MUST INDICATE THE APPLICABLE SPECIFICATION SECTION NUMBER AND EQUIPMENT TAG NUMBER.
D. ARCHITECT'S REVIEW OF SHOP DRAWINGS DOES NOT RELEASE CONTRACTOR FROM RESPONSIBILITY OF COORDINATING HIS WORK AT JOBSITE AND TAKING FIELD MEASUREMENTS. IN CASES WHERE INTERFERENCES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY ARCHITECT SO THAT SUCH INTERFERENCES MAY BE RESOLVED PRIOR TO PROCEEDING WITH SHOP WORK. NO CLAIM WILL BE ALLOWED FOR WORK THAT MIGHT HAVE TO BE MOVED OR REPLACED BASED ON A CLAIM THAT WORK WAS PLACED IN ACCORDANCE WITH DIMENSIONS SHOWN ON AN APPROVED SHOP DRAWING.

1.6 CONSTRUCTION DOCUMENTS
A. THE DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT AND APPROXIMATE SIZES AND LOCATIONS OF EQUIPMENT AND MATERIALS. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN INDICATED LOCATIONS AND ARRANGEMENT, THE CONTRACTOR SHALL MAKE SUCH CHANGES AS DIRECTED BY THE ENGINEER, WITHOUT ADDITIONAL COST TO THE OWNER.
B. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, SLEEVES, ETC. MAY NOT BE SHOWN; BUT WHERE SUCH ITEMS ARE REQUIRED BY THE NATURE OF THE WORK, THEY SHALL BE FURNISHED AND INSTALLED. ROUGH-IN DIMENSIONS AND LOCATIONS SHALL BE VERIFIED WITH THE SUPPLIER OF ALL EQUIPMENT FURNISHED BY OTHER TRADES, OR BY THE OWNER, PRIOR TO THE TIME OF ROUGH-IN.
C. EQUIPMENT SPECIFICATIONS MAY NOT DEAL INDIVIDUALLY WITH MINUTE ITEMS REQUIRED SUCH AS COMPONENTS, PART, CONTROLS AND DEVICES WHICH MAY BE REQUIRED TO MEET THE EQUIPMENT WARRANTIES. WHERE SUCH ITEMS ARE REQUIRED, THEY SHALL BE INCLUDED BY THE SUPPLIER OF THE EQUIPMENT, WHETHER OR NOT SPECIFICALLY CALLED FOR.
D. THE DRAWINGS AND THE SPECIFICATIONS ARE COOPERATIVE AND SUPPLEMENTARY. IT IS THE INTENT OF BOTH SAID DRAWINGS AND SPECIFICATIONS TO COVER ALL MECHANICAL REQUIREMENTS IN THEIR ENTIRETY AS NEARLY AS POSSIBLE. THE CONTRACTOR SHALL CLOSELY CHECK THE DRAWINGS AND SPECIFICATIONS FOR ANY OBVIOUS ERRORS OR OMISSIONS AND BRING ANY SUCH CONDITION TO THE ATTENTION OF THE ENGINEER PRIOR TO THE RECEIPT OF BID, IN ORDER TO PERMIT CLARIFICATION BY MEANS OF A MAILED ADDENDUM. IF THERE ARE NO QUESTIONS PRIOR TO THE BID PROPOSAL DATE, IT SHALL BE UNDERSTOOD THAT THE DRAWINGS AND SPECIFICATIONS ARE COMPLETE AND CORRECT, AND THAT THE INTENT OF SAID DOCUMENTS WILL BE COMPLIED WITH, AND THE INSTALLATION TO BE COMPLETE IN ALL RESPECTS, ACCORDING TO SAID INTENT. IF THERE IS A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN, IF NOT CLARIFIED IN WRITING BY THE ENGINEER.
E. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULL ACCESSIBLE POSITIONS. MINOR DEVIATIONS FROM THE CONTRACT DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY, BUT CHANGES OF MAGNITUDE, OR WHICH INVOLVE EXTRA COST, SHALL NOT BE MADE WITHOUT APPROVAL. AMPLE SPACE SHALL BE ALLOWED FOR REMOVAL OF ALL PARTS THAT MAY REQUIRE REPLACEMENT OR SERVICE IN THE FUTURE.

1.7 PRE-BID SITE VISIT
A. PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED OF CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

PART 2 - PRODUCTS

2.1 DESIGN BASIS
A. THE PRODUCTS/MATERIALS SPECIFICALLY NAMED IN THE SPECIFICATION AND/OR ON THE DRAWINGS ARE THE BASIS OF DESIGN. THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT PRODUCT/MATERIALS, EVEN IF FROM OTHER ACCEPTABLE MANUFACTURERS, IF IT IS FELT THEY DO NOT MEET THE INTENT OF THE SPECIFICATION.
B. THE ARCHITECT RESERVES THE SOLE RIGHT FOR THE APPROVAL OF PROPOSED MATERIAL FOR EQUIPMENT, AND THE PHRASE, " OR AN APPROVED EQUIVALENT " , USED IN THESE SPECIFICATIONS, OR ON THE DRAWINGS, SHALL BE INTERPRETED TO MEAN AN EQUIVALENT APPROVED BY THE ARCHITECT.
C. ALL CHANGES REQUIRED BY ALTERNATE EQUIPMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER; AND ALL COSTS INCURRED BY OTHER TRADES, PUBLIC UTILITIES OR THE OWNER, AS A RESULT OF THE USE OF SUCH EQUIPMENT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
D. THE CONTRACTOR SHALL IDENTIFY THE DIFFERENCES IN ALTERNATE MATERIAL OR EQUIPMENT AS COMPARED TO THAT SPECIFIED, AND SHALL INDICATE THE BENEFITS TO THE PROJECT AS A RESULT OF SELECTING THE ALTERNATIVE.
E. THE ENGINEER RESERVES THE RIGHT TO REFUSE APPROVAL OF EQUIPMENT WHICH DOES NOT MEET THE SPECIFICATION, IN HIS OPINION, OR OF EQUIPMENT FOR WHICH NO LOCAL EXPERIENCE OF SATISFACTORY SERVICE IS AVAILABLE. THE ENGINEER FURTHER RESERVES THE RIGHT TO REJECT EQUIPMENT FOR WHICH MAINTENANCE SERVICE AND THE AVAILABILITY OF REPLACEMENT PARTS IS QUESTIONABLE.

PART 3 - EXECUTION

3.1 MECHANICAL INSTALLATIONS
A. GENERAL: SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF MECHANICAL SYSTEMS, MATERIALS, AND EQUIPMENT. COORDINATE MECHANICAL SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.

3.2 CUTTING AND PATCHING
A. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED MECHANICAL EQUIPMENT, COMPONENTS, AND MATERIALS AS INDICATED, INCLUDING BUT NOT LIMITED TO REMOVAL OF MECHANICAL PIPING, HEATING UNITS, PLUMBING FIXTURES AND TRIM, AND OTHER MECHANICAL ITEMS MADE OBSOLETE BY THE NEW WORK. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.
B. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED.
C. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.
D. PATCH EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS AND EXPERIENCED INSTALLERS. INSTALLERS' QUALIFICATIONS REFER TO THE MATERIALS AND METHODS REQUIRED FOR THE SURFACE AND BUILDING COMPONENTS BEING PATCHED.

3.3 PAINTING
A. FACTORY PAINTED EQUIPMENT THAT HAS BEEN SCRATCHED OR MARRED SHALL BE REPAINTED TO MATCH ORIGINAL FACTORY COLOR.
B. ALL UNINSULATED BLACK FERROUS METAL ITEMS EXPOSED TO SIGHT SUCH AS EQUIPMENT HANGERS, PIPING, FRAMES AND SUPPORTS NOT PROVIDED WITH FACTORY PRIME COAT, SHALL BE CLEANED AND PAINTED WITH ONE COAT OF RUST INHIBITING PRIMER. IN ADDITION, SUCH ITEMS IN FINISHED SPACES SHALL ALSO BE PAINTED WITH TWO COATS OF FINISH PAINT IN A COLOR TO MATCH ADJACENT SURFACES OR AS OTHERWISE SELECTED BY THE ARCHITECT.

3.4 PERFORMANCE
A. ALL EQUIPMENT AND SYSTEMS SHALL BE PROTECTED AGAINST FREEZING, FLOODING, CORROSION, AND OTHER FORMS OF DAMAGE PRIOR TO ACCEPTANCE BY THE OWNER.
B. DESIGN AND FABRICATION FEATURES OR PROVEN METHODS NOT SPECIFICALLY COVERED BY THIS SPECIFICATION SHALL BE SPECIFICALLY STATED AND DOCUMENTED IN THE PROPOSAL.
C. LABOR SHALL BE FURNISHED FOR ASSEMBLING ALL PIECES OF EQUIPMENT WHICH, DUE TO SHIPPING LIMITATIONS, HAVE COMPONENTS WHICH ARRIVE ON THE JOBSITE DISASSEMBLED.

3.5 OPERATING AND MAINTENANCE INSTRUCTIONS
A. ARRANGE FOR EACH INSTALLER OF EQUIPMENT THAT REQUIRES REGULAR MAINTENANCE TO MEET WITH THE OWNER'S PERSONNEL TO PROVIDE INSTRUCTION IN PROPER OPERATION AND MAINTENANCE. IF INSTALLERS ARE NOT EXPERIENCED IN PROCEDURES, PROVIDE INSTRUCTION BY MANUFACTURER'S REPRESENTATIVES.

3.6 FINAL INSPECTION
A. PRIOR TO FINAL ACCEPTANCE, ALL SYSTEMS SHALL BE OPERATED TO TEST PERFORMANCE TO THE SATISFACTION OF THE ENGINEER.
B. DEFECTS DEMONSTRATED BY INSPECTIONS AND TESTS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT THE SUBCONTRACTOR'S EXPENSE.

3.7 CLEANING OF SYSTEMS AND PREMISES
A. BEFORE THE SYSTEMS ARE TESTED AND BALANCED, DUCTS AND EQUIPMENT SHALL BE THOROUGHLY CLEANED SO THAT NO DIRT, DUST OR OTHER FOREIGN MATTER WILL BE DEPOSITED IN OR CARRIED THROUGH THE SYSTEM.
B. AIR HANDLING UNITS SHALL NOT BE OPERATED WITHOUT FILTERS IN PLACE. ALL AIR FILTERS SHALL BE REPLACED AFTER COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCING. IF AIR-HANDLING SYSTEMS ARE USED FOR TEMPORARY HEATING OR COOLING, THE AIR FILTERS SHALL BE CHANGED A MINIMUM OF EVERY TWO WEEKS.
C. WATER AND STEAM SYSTEMS SHALL BE THOROUGHLY FLUSHED AND CLEANED OF ANY AND ALL DELETERIOUS MATERIALS BEFORE THE SYSTEMS ARE PLACED IN OPERATION.
D. ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS AT THE COMPLETION OF THE PROJECT AND PRIOR TO ACCEPTANCE BY THE OWNER.

3.8 PROTECTION
A. GUARDS, BARRICADES, LIGHTS, SERVICES, ETC., NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY SHALL BE FURNISHED AND MAINTAINED.
B. EXISTING WORK SUCH AS PAVEMENTS, LAWNS, SIDEWALKS, FLOORS, CURBS, AND OTHER STRUCTURES AND UTILITIES WHICH ARE DAMAGED OR DISTURBED DUE TO MAKING CONNECTIONS OR ANY PHASE OF OPERATIONS SHALL BE RESTORED TO THE SATISFACTION OF THE OWNER AND THE GOVERNING AUTHORITIES.

3.9 SAFETY
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE DEMOLITION AND INSTALLATION OF THIS WORK. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY, OR LOSS.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION AND PREVENTION OF UNSAFE CONDITIONS IN REGARD TO DEMOLITION, CONSTRUCTION, HAZARDOUS MATERIALS, AND EQUIPMENT USAGE. CONTRACTOR SHALL COMPLY WITH ALL OSHA, ENVIRONMENTAL PROTECTION AGENCY, AND LOCAL AUTHORITY REQUIREMENTS.
C. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITION AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATION SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES.
D. REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS FROM BUILDING SITE. TRANSPORT AND LEGALLY DISPOSE OF MATERIALS OFF SITE.
E. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.

SECTION 230548 - VIBRATION CONTROLS FOR HVAC

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE VIBRATION ISOLATORS AT ALL MECHANICAL EQUIPMENT, UNLESS THE VIBRATION GENERATION COMPONENTS ARE INTERNALLY ISOLATED.
B. TYPES OF VIBRATION CONTROL PRODUCTS REQUIRED INCLUDE NEOPRENE PADS AND SPRING HANGERS.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE VIBRATION CONTROL PRODUCTS AS MANUFACTURED BY AMBER/BOOTH CO., KORFUND DYNAMICS CORP., MASON INDUSTRIES, INC., OR APPROVED EQUIVALENT.

PART 3 - EXECUTION

3.1 APPLICATIONS
A. GENERAL: EXCEPT AS OTHERWISE INDICATED, SELECT VIBRATION CONTROL PRODUCTS IN ACCORDANCE WITH ASHRAE HANDBOOK, 1991 APPLICATIONS VOLUME, CHAPTER 42 "SOUND AND VIBRATION CONTROL" TABLE 9A, WHERE MORE THAN ONE TYPE OF PRODUCT IS OFFERED, SELECTION IS INSTALLER'S OPTION.

SECTION 230553 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE IDENTIFICATION DEVICES SPECIFIED IN THIS SECTION INCLUDING PLASTIC TAPE, AND ENGRAVED PLASTIC-LAMINATE SIGNS. PLASTIC PIPE MARKERS AND VALVE TAGS.
B. CODES AND STANDARDS: COMPLY WITH ANSI A13.1 FOR LETTERING SIZE, LENGTH OF COLOR FIELD, COLORS, AND VIEWING ANGLES OF IDENTIFICATION DEVICES.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE MECHANICAL IDENTIFICATION MATERIALS AS MANUFACTURED BY ALLEN SYSTEMS, INC., BRADY (W.H.) CO.; SIGNMARK DIV., SETON NAME PLATE CORP., OR APPROVED EQUIVALENT.

2.2 MECHANICAL IDENTIFICATION MATERIALS
A. GENERAL: PROVIDE MANUFACTURER'S STANDARD PRODUCTS OF CATEGORIES AND TYPES REQUIRED FOR EACH APPLICATION AS REFERENCED IN OTHER DIVISION 23 SECTIONS. WHERE MORE THAN SINGLE TYPE IS SPECIFIED FOR APPLICATION, SELECTION IS INSTALLER'S OPTION, BUT PROVIDE SINGLE SELECTION FOR EACH PRODUCT CATEGORY.

PART 3 - EXECUTION

3.2 MECHANICAL EQUIPMENT IDENTIFICATION
A. GENERAL: INSTALL ENGRAVED PLASTIC LAMINATE SIGN OR PLASTIC EQUIPMENT MARKER ON OR NEAR EACH MAJOR ITEM OF MECHANICAL EQUIPMENT AND EACH OPERATIONAL DEVICE, AS SPECIFIED HEREIN IF NOT OTHERWISE SPECIFIED FOR EACH ITEM OR DEVICE.
B. LETTERING SIZE: MINIMUM 1/4" HIGH LETTERING FOR NAME OF UNIT WHERE VIEWING DISTANCE IS LESS THAN 2'-0", 1/2" HIGH FOR DISTANCES UP TO 6'-0", AND PROPORTIONATELY LARGER LETTERING FOR GREATER DISTANCES. PROVIDE SECONDARY LETTERING 2/3 TO 3/4 OF SIZE OF PRINCIPAL LETTERING.
C. TEXT OF SIGNS: IN ADDITION TO NAME OF IDENTIFIED UNIT, PROVIDE LETTERING TO DISTINGUISH BETWEEN MULTIPLE UNITS, INFORM OPERATOR OF OPERATIONAL REQUIREMENTS, INDICATE SAFETY AND EMERGENCY PRECAUTIONS, AND WARN OF HAZARDS AND IMPROPER OPERATIONS.
D. IN ADDITION TO THE PLASTIC SIGN, INSTALL PRESSURE SENSITIVE LABEL DESCRIBED IN PART 2 OR PAINTED STENCIL LABEL, ABOVE ON EACH PIECE OF MECHANICAL EQUIPMENT. THOROUGHLY CLEAN EQUIPMENT SURFACE PER LABEL MANUFACTURERS INSTRUCTIONS PRIOR TO INSTALLING LABEL.

SECTION 230700 - MECHANICAL INSULATION

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE MECHANICAL INSULATION FOR DUCT AND EQUIPMENT AS INDICATED ON DRAWINGS AND SCHEDULES, AND BY REQUIREMENTS OF THIS SECTION.

1.2 QUALITY ASSURANCE
A. PROVIDE COMPOSITE MECHANICAL INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES) WITH FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS, AS TESTED BY ASTM E 84 (NFPA 255) METHOD.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS MANUFACTURED BY ONE OF THE FOLLOWING: ARMSTRONG WORLD INDUSTRIES, INC.; CERTAINTEED CORP.; KNAUF FIBER GLASS GMBH.; OWENS-CORNING FIBERGLAS CORP.

2.2 DUCTWORK AND EQUIPMENT INSULATION MATERIALS
A. RIGID FIBERGLASS DUCTWORK INSULATION (TYPE RFG): ASTM C 612; 'K' VALUE OF 0.24 AT 75 F, NON-COMBUSTIBLE, RIGID, JACKET. CONFIRM ASJ OR FSK WITH ARCHITECT.
B. FLEXIBLE FIBERGLASS DUCTWORK INSULATION (TYPE FFG): ASTM C 553, 'K' VALUE OF 0.36 AT 75 F, NON-COMBUSTIBLE, FLEXIBLE, JACKET. CONFIRM ASJ OR FSK WITH ARCHITECT.
C. PROVIDE ASTM C 921 JACKETS FOR DUCTWORK INSULATION: TYPE I FOR DUCTWORK WITH TEMPERATURES BELOW AMBIENT; TYPE II FOR DUCTWORK WITH TEMPERATURES ABOVE AMBIENT.
D. DUCTWORK INSULATION ACCESSORIES: PROVIDE STAPLES, BANDS, WIRES, TAPE, ANCHORS, CORNER ANGLES AND SIMILAR ACCESSORIES AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

PART 3 - EXECUTION

3.1 DUCT AND EQUIPMENT INSULATION APPLICATION SCHEDULE
A. INSULATE CONCEALED DUCT AND EQUIPMENT ACCORDING TO THE FOLLOWING SCHEDULE:

SERVICE	MAX SERVICE TEMP	INSULATION TYPE	INSULATION THICKNESS
-HVAC SUPPLY DUCTWORK BETWEEN FAN DISCHARGE, OR HVAC UNIT DISCHARGE, AND ROOM TERMINAL OUTLET. -NECK AND BELLS OF SUPPLY DIFFUSERS.	450 F	RFG	R6 (MIN) 2"
-HVAC RETURN DUCTWORK BETWEEN ROOM TERMINAL INLET AND RETURN FAN INLET, OR HVAC UNIT INLET -HVAC PLENUMS AND UNIT HOUSINGS NOT PRE-INSULATED AT FACTORY OR LINED.	250 F	FFG	R6 (MIN) 2"

B. INSULATE ALL DUCT THAT ARE EXPOSED TO THE OUTDOORS AND WEATHER ACCORDING TO THE FOLLOWING SCHEDULE:

SERVICE	MAX SERVICE TEMP	INSULATION TYPE	INSULATION THICKNESS
-ALL HVAC DUCTWORK EXPOSED TO OUTDOORS. CLIMATE ZONE 1-4	450 F	RFG	R8 (MIN) 2-1/2"
-ALL HVAC DUCTWORK EXPOSED TO OUTDOORS. CLIMATE ZONE 5-8	450 F	RFG	R12 (MIN) 3"

C. INSTALL DUCT AND EQUIPMENT THERMAL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN COMPLIANCE WITH RECOGNIZED INDUSTRY PRACTICES.
D. MAINTAIN INTEGRITY OF VAPOR-BARRIER AND PROTECT IT TO PREVENT PUNCTURE AND OTHER DAMAGE.

SECTION 233113 - METAL DUCTWORK

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE RECTANGULAR, ROUND METAL DUCTS, AND PLENUMS FOR HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS IN PRESSURE CLASSES FROM LOW PRESSURE (STATIC PRESSURE LESS THAN OR EQUAL TO 2-INCH WATER GAGE) TO MEDIUM PRESURE (STATIC PRESSURE GREATER THAN 2-INCH AND LESS THAN 3-INCH WATER GAGE).

1.2 QUALITY ASSURANCE
A. COMPLY WITH THE REQUIREMENTS OF NFPA 90A, "STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS," EXCEPT AS INDICATED OTHERWISE.

PART 2 - PRODUCTS

2.1 SHEET METAL MATERIALS
A. GALVANIZED SHEET STEEL: LOCK-FORMING QUALITY, ASTM A 527, COATING DESIGNATION G 90. PROVIDE MILL PHOSPHATIZED FINISH FOR EXPOSED SURFACES OF DUCTS EXPOSED TO VIEW.
B. REINFORCEMENT SHAPES AND PLATES: UNLESS OTHERWISE INDICATED, PROVIDE GALVANIZED STEEL REINFORCING WHERE INSTALLED ON GALVANIZED SHEET METAL DUCTS. FOR ALUMINUM AND STAINLESS STEEL DUCTS PROVIDE REINFORCING OF COMPATIBLE MATERIALS.
C. TIE RODS: GALVANIZED STEEL, 1/4-INCH MINIMUM DIAMETER FOR 36-INCH LENGTH OR LESS; 3/8-INCH MINIMUM DIAMETER FOR LENGTHS LONGER THAN 36 INCHES.

2.2 SEALING MATERIALS
A. JOINT AND SEAM TAPE: 2 INCHES WIDE, GLASS-FIBER-FABRIC REINFORCED.
B. JOINT AND SEAM SEALANT: ONE-PART, NONSAG, SOLVENT-RELEASE-CURING, POLYMERIZED BUTYL SEALANT COMPLYING WITH FS TT-S-001657, TYPE I; FORMULATED WITH A MINIMUM OF 75 PERCENT SOLIDS.
C. FLANGED JOINT MASTICS: ONE-PART, ACID-CURING, SILICONE ELASTOMERIC JOINT SEALANTS, COMPLYING WITH ASTM C 920, TYPE S, GRADE NS, CLASS 25, USE O.

2.3 DUCT AND FITTING FABRICATION
A. EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTS WITH GALVANIZED SHEET STEEL, IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", INCLUDING THEIR ASSOCIATED DETAILS. CONFORM TO THE REQUIREMENTS IN THE REFERENCED STANDARD FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS.
B. STATIC PRESSURE CLASSIFICATIONS: EXCEPT WHERE OTHERWISE INDICATED, CONSTRUCT DUCT SYSTEMS TO THE FOLLOWING PRESSURE CLASSIFICATIONS:
1. SUPPLY DUCTS: 2-INCH WATER GAGE.
2. RETURN DUCTS: 1/2 INCHES WATER GAGE, NEGATIVE PRESSURE.
3. EXHAUST DUCTS: 1/2 INCHES WATER GAGE, NEGATIVE PRESSURE.
C. FABRICATE ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER DUCT CONSTRUCTION IN ACCORDANCE WITH SMACNA "HVAC METAL DUCT CONSTRUCTION STANDARD".
D. ROUND DUCT OF EQUIVALENT DIAMETER TO THE INDICATED RECTANGULAR DUCT MAY BE SUBSTITUTED AT THE CONTRACTOR'S OPTION.
E. FABRICATE ROUND DUCT AND ROUND FITTINGS INCLUDING ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER DUCT CONSTRUCTION IN ACCORDANCE WITH SMACNA "HVAC METAL DUCT CONSTRUCTION STANDARD". ALL ROUND DUCT 12" DIAMETER AND GREATER SHALL BE FABRICATED OF SPIRAL-WOUND DUCT.
F. IN LIEU OF SHOP FABRICATED DUCT AND FITTINGS, FACTORY FABRICATED DUCT AND FITTINGS MAY BE SUBSTITUTED, SUCH AS MANUFACTURED BY LINDAB, OR APPROVED EQUIVALENT.

PART 3 - EXECUTION

3.1 DUCT INSTALLATION
A. USE FABRICATED FITTINGS FOR ALL CHANGES IN DIRECTIONS, CHANGES IN SIZE AND SHAPE, AND CONNECTIONS.
B. LOCK SEAMS AND JOINTS, EXCEPT AS OTHERWISE INDICATED, VERTICALLY AND HORIZONTALLY, PARALLEL AND PERPENDICULAR TO BUILDING LINES; AVOID DIAGONAL RUNS. INSTALL DUCT SYSTEMS IN SHORTEST ROUTE THAT DOES NOT OBSTRUCT USEABLE SPACE OR BLOCK ACCESS FOR SERVICING BUILDING AND ITS EQUIPMENT.
C. SEAL DUCT SEAMS AND JOINTS ACCORDING TO SMACNA " DUCT CONSTRUCTION STANDARDS ".
D. INSTALL RIGID ROUND AND RECTANGULAR METAL DUCT WITH SUPPORT SYSTEMS INDICATED IN SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".
E. SUPPORT HORIZONTAL DUCTS WITHIN 2 FEET OF EACH ELBOW AND WITHIN 4 FEET OF EACH BRANCH INTERSECTION.
F. SUPPORT VERTICAL DUCTS AT A MAXIMUM INTERVAL OF 16 FEET AND AT EACH FLOOR.

3.2 CONNECTIONS
A. EQUIPMENT CONNECTIONS: CONNECT EQUIPMENT WITH FLEXIBLE CONNECTORS IN ACCORDANCE WITH DIVISION 23 SECTION "DUCT ACCESSORIES."
B. BRANCH CONNECTIONS: COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".
C. OUTLET AND INLET CONNECTIONS: COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".
D. TERMINAL UNITS CONNECTIONS: COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".

SECTION 233300 - DUCTWORK ACCESSORIES

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE DUCTWORK ACCESSORIES WORK AS INDICATED ON DRAWINGS AND IN SCHEDULES, AND BY REQUIREMENTS OF THIS SECTION, WHICH INCLUDES DAMPERS, DAMPER ACTUATORS, FIRE AND SMOKE DAMPERS, TURNING VANES, DUCT HARDWARE, AND DUCT ACCESS DOORS.

1.2 QUALITY ASSURANCE
A. COMPLY WITH APPLICABLE SECTIONS OF THE FOLLOWING CODES AND STANDARDS:
1. SMACNA "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE".
2. ASHRAE RECOMMENDATIONS PERTAINING TO CONS

IN CONFORMANCE WITH APPLICABLE SECTIONS OF ARI 650, ASHRAE 70, AMCA 500 AND NFPA 90A.

PART 2 - PRODUCTS

2.1 DIFFUSERS AND GRILLES

A. GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE MANUFACTURER'S STANDARD CEILING AIR DIFFUSERS AND WALL GRILLES WHERE SHOWN; OF SIZE, SHAPE, CAPACITY AND TYPE INDICATED; CONSTRUCTED OF MATERIALS AND COMPONENTS AS INDICATED, AND AS REQUIRED FOR COMPLETE INSTALLATION.

B. PERFORMANCE: PROVIDE DIFFUSERS AND GRILLES THAT HAVE, AS MINIMUM, TEMPERATURE AND VELOCITY TRAVERSES, THROW AND DROP, AND NOISE CRITERIA RATINGS FOR EACH SIZE DEVICE AS LISTED IN MANUFACTURER'S CURRENT DATA.

C. CEILING COMPATIBILITY: PROVIDE DIFFUSERS WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT CEILING SYSTEMS, AND THAT ARE SPECIFICALLY MANUFACTURED TO FIT INTO CEILING MODULE WITH ACCURATE FIT AND ADEQUATE SUPPORT. REFER TO GENERAL CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR TYPES OF CEILING SYSTEMS WHICH WILL CONTAIN EACH TYPE OF CEILING AIR DIFFUSER.

D. PROVIDE MOUNTING FRAMES TO ADAPT TO CONSTRUCTION TYPE. WHERE INSTALLED IN HARD CEILINGS OR WALLS, PROVIDE SURFACE MOUNT FRAME BELOW CEILING WITH PERIMETER FLANGE AND GASKET TO SEAL AGAINST CEILING CONSTRUCTION.

E. WHERE INDICATED, PROVIDE ADJUSTABLE OPPOSED BLADE DAMPER ASSEMBLY, KEY OPERATED FROM FACE OF DIFFUSER.

F. PROVIDE, WHERE REQUIRED TO PROTECT FIRE RATED CEILING PENETRATIONS, COMBINATION ADJUSTABLE OPPOSED BLADE DAMPER AND FUSIBLE LINK FIRE DAMPER WITH UL APPROVED LINK AND ASSEMBLY DESIGNED TO MEET REQUIREMENTS OF NFPA 90A.

G. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE EQUIPMENT MANUFACTURED BY KRUEGER MFG. CO.; TITUS PRODUCTS CO.; TUTTLE & BAILEY CORP.; OR APPROVED EQUIVALENT:

PART 3 - EXECUTION

3.1 INSTALLATION

A. GENERAL: INSTALL AIR OUTLETS AND INLETS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO INSURE THAT PRODUCTS SERVE INTENDED FUNCTIONS.

B. COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK AND DUCT ACCESSORIES, AS NECESSARY TO INTERFACE INSTALLATION OF AIR OUTLETS AND INLETS WITH OTHER WORK.

C. LOCATE CEILING AIR DIFFUSERS, REGISTERS, AND GRILLES, AS INDICATED ON GENERAL CONSTRUCTION "REFLECTED CEILING PLANS". UNLESS OTHERWISE INDICATED, LOCATE UNITS IN CENTER OF ACOUSTICAL CEILING MODULES.

SECTION 238900 - TESTING, ADJUSTING, AND BALANCING

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. THIS PROJECT SHALL INCLUDE THE REQUIREMENTS AND PROCEDURES FOR TOTAL MECHANICAL SYSTEMS TESTING, ADJUSTING, AND BALANCING. REQUIREMENTS INCLUDE MEASUREMENT AND ESTABLISHMENT OF THE FLUID QUANTITIES OF THE MECHANICAL SYSTEMS AS REQUIRED TO MEET DESIGN SPECIFICATIONS, AND RECORDING AND REPORTING THE RESULTS. WORK INCLUDES TESTING, ADJUSTING AND BALANCING THE SUPPLY AIR SYSTEMS, RETURN AIR SYSTEMS, EXHAUST AIR SYSTEMS, AND VERIFYING THE TEMPERATURE CONTROL SYSTEM OPERATION.

B. SYSTEMS/DEVICES TO BE BALANCED INCLUDE THE FOLLOWING:
1. ALL AIR DEVICES, INCLUDING ALL SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES.
2. ALL NEW EXHAUST FANS.
3. ALL ROOFTOP UNITS, INCLUDING TOTAL SUPPLY AIR, RETURN AIR AND OUTDOOR AIR.

1.2 QUALITY ASSURANCE

A. AGENCY QUALIFICATIONS: EMPLOY THE SERVICES OF AN INDEPENDENT TESTING, ADJUSTING, AND BALANCING AGENCY MEETING THE QUALIFICATIONS SPECIFIED BELOW, TO BE THE SINGLE SOURCE OF RESPONSIBILITY TO TEST, ADJUST, AND BALANCE THE BUILDING MECHANICAL SYSTEMS IDENTIFIED ABOVE, TO PRODUCE THE DESIGN OBJECTIVES. SERVICES SHALL INCLUDE CHECKING INSTALLATIONS FOR CONFORMITY TO DESIGN, MEASUREMENT AND ESTABLISHMENT OF THE FLUID QUANTITIES OF THE MECHANICAL SYSTEMS AS REQUIRED TO MEET DESIGN SPECIFICATIONS, AND RECORDING AND REPORTING THE RESULTS.
1. THE INDEPENDENT TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) IN THOSE TESTING AND BALANCING DISCIPLINES REQUIRED FOR THIS PROJECT, AND HAVING AT LEAST ONE PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE SERVICES ARE TO BE PERFORMED, CERTIFIED BY AABC OR NEBB AS A TEST AND BALANCE ENGINEER.

B. CODES AND STANDARDS:
1. NEBB: "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS."
2. AABC: "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE".
3. ASHRAE: ASHRAE HANDBOOK, HVAC APPLICATIONS VOLUME, CHAPTER 39, TESTING, ADJUSTING, AND BALANCING.

PART 3 - EXECUTION

3.1 INITIAL BASELINE TESTING

A. PRIOR TO THE START OF CONSTRUCTION, PERFORM A BASELINE TEST TO DETERMINE THE EXISTING CONDITIONS OF ALL SYSTEMS SERVING THE AREA OF CONSTRUCTION WHICH WILL BE MODIFIED AS A RESULT OF THE PROJECT.
1. MEASURE AIRFLOW AT EACH INLET AND OUTLET.
2. MEASURE TOTAL AIRFLOW AT FAN DISCHARGE BY PITOT TUBE.
3. MEASURE VOLTAGE AND AMPERAGE OF ALL SYSTEM MOTORS.

B. RECORD OPERATING CONDITIONS AND PROVIDE REPORT TO THE OWNER AND ENGINEER, SPECIFICALLY NOTING ANY DEFICIENCIES WHICH MAY IMPACT THE SUCCESSFUL COMPLETION OF THIS PROJECT.

3.2 PERFORMING TESTING, ADJUSTING, AND BALANCING

A. A. EXAMINATION: BEFORE COMMENCING TESTS, VERIFY THAT SYSTEMS ARE COMPLETE AND OPERABLE. ENSURE THE FOLLOWING:
1. EQUIPMENT IS OPERABLE AND IN SAFE AND NORMAL CONDITION.
2. TEMPERATURE CONTROL SYSTEMS ARE INSTALLED COMPLETE AND OPERABLE
3. PROPER THERMAL OVERLOAD PROTECTION IS IN PLACE AND OPEN.
4. DUCT SYSTEMS ARE CLEAN OF DEBRIS.
5. FIRE AND VOLUME DAMPERS ARE IN PLACE AND OPEN.
6. ACCESS DOORS ARE CLOSED AND DUCT END CAPS ARE IN PLACE.
7. AIR OUTLETS ARE INSTALLED AND CONNECTED.
8. DUCT SYSTEM LEAKAGE HAS BEEN MINIMIZED.

B. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM IDENTIFIED, IN ACCORDANCE WITH THE DETAILED PROCEDURES OUTLINED IN THE REFERENCED STANDARDS.

C. CUT INSULATION, DUCTWORK, AND PIPING FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES. PATCH INSULATION, DUCTWORK, AND HOUSINGS, USING MATERIALS IDENTICAL TO THOSE REMOVED. SEAL INSULATION TO RE-ESTABLISH INTEGRITY OF THE VAPOR BARRIER.

D. MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS, VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, TO SHOW FINAL SETTINGS. MARK WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIALS.

E. TESTING AND BALANCING OF THE MECHANICAL SYSTEMS TO BE COMPLETED BY NATIONAL TAB AT THE GENERAL CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL CONTRACT WITH, SCHEDULE, AND SUPERVISE/ASSIST NATIONAL TAB AS REQUIRED. CONTACT SWEETGREEN'S CONSTRUCTION MANAGER FOR CONTACT INFORMATION.

3.3 RECORD AND REPORT DATA

A. PREPARE TEST AND BALANCE REPORT AND SUBMIT ONE (1) COPY TO THE ENGINEER AND ONE (1) COPY TO THE OWNER'S REPRESENTATIVE. REPORT SHALL BE STANDARD NEBB OR AABC FORMAT.

B. AIR BALANCE AND ADJUSTING
1. SUPPLY AIR SYSTEMS INSTALLED IN FINISHED AREAS OF THE BUILDING SHALL BE BALANCED AND ADJUSTED AS FOLLOWS:
A. AFTER DUCT SYSTEMS HAVE BEEN INSTALLED COMPLETE WITH ALL VAV BOXES, TERMINAL DEVICES, GRILLES, DAMPERS, DUCTS, COILS, AND OTHER ITEMS HEREINAFTER SPECIFIED THE CONTRACTOR SHALL MAKE ADJUSTMENTS, AS REQUIRED, TO DELIVER THE VOLUME OF AIR AT EACH AIR OUTLET WITHIN 5% OF DESIGN FLOW AS SHOWN ON THE DRAWINGS. AFTER THE FINISHED AREA IS OCCUPIED, THE AIR VOLUMES SHALL BE READJUSTED, IF REQUIRED, TO PROPERLY BALANCE THE COOLING AND HEATING LOADS THROUGHOUT THE CONDITIONED AREAS.
B. AIR OUTLETS SHALL BE BALANCED WITH AIR PATTERN AS SHOWN ON THE DRAWINGS.
2. ALL BALANCING MUST BE ACCOMPLISHED WITH DIFFUSER AIR PATTERNS AS INDICATED ON THE DRAWINGS.
3. THE CONTRACTOR SHALL SUBMIT DETAILED BALANCING PROCEDURES AND RECORDING FORMS FOR THE ENGINEER'S REVIEW, PRIOR TO COMMENCING ANY AIR BALANCE WORK.

C. FINAL AIR BALANCE READINGS.
1. AFTER AIR FLOW ARE BALANCED, AND WITH THE TEMPERATURE CONTROLS SET TO PRODUCE DESIGN COOLING, MEASURE AND RECORD ALL DATA NECESSARY TO COMPILE A COMPLETE REPORT TO DEMONSTRATE THE ACCEPTABILITY OF THE VARIOUS MECHANICAL SYSTEMS. INCLUDE AT LEAST THE FOLLOWING DATA IN THE REPORT:
A. OUTSIDE DRY BULB AND WET BULB TEMPERATURE.
B. INSIDE DRY BULB AND WET BULB TEMPERATURES IN SIX SELECTED AREAS OF THE CONDITIONED SPACE, ROOM OR AREA SELECTED BY THE ENGINEER.
C. DRY BULB TEMPERATURES OF AIR ENTERING AND LEAVING ALL COILS.
D. TEMPERATURE OF WATER ENTERING AND LEAVING EACH WATER COIL.
2. THE BALANCED POSITION OF EACH CONTROLLING VALVE AND DAMPER SHALL BE PERMANENTLY MARKED ON THE PIPE, INSULATION, OR DUCTWORK.

D. TEMPERATURE CONTROL ADJUSTING.
1. AUTOMATIC TEMPERATURE CONTROLS SHALL BE CALIBRATED AND ALL THERMOSTATS, DAMPERS, ETC., ADJUSTED SO THAT CONTROL SYSTEM IS IN THE PROPER OPERATING CONDITION, SUBJECT TO REVIEW BY THE ENGINEER.

F. FINAL REPORT
1. SUBMIT PDF AND SIX (6) COPIES OF COMPLETE REPORTS TO THE ARCHITECT.

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sg

sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:
WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 41016 MICHAEL WOLF
COA: P – 2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE.,
SUITE 123
CHARLOTTE, NC 28205

DRAWN BY:	TAL
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

MECHANICAL SPECIFICATIONS

M-011

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Sweetgreen - Plaza Midwood (Charlotte, NC)
Location: Charlotte, North Carolina
Climate Zone: 3a
Project Type: Alteration

Construction Site:
1600 Central Ave
Charlotte, North Carolina 28205

Owner/Agent:
Sweetgreen
3101 W. Exposition Blvd.
Los Angeles, California 90018

Designer/Contractor:
Wolf Engineering
PO Box 38
Dalton, Georgia 30721

Mechanical Systems List

Quantity **System Type & Description**

1 AHU/HP-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 26 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 23 kBtu/h,
Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Single-Zone VAV, 800 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

3 AHU/HP-2,3,4 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 46 kBtu/h,
Proposed Efficiency = 8.50 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 46 kBtu/h,
Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN SYSTEM 2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 2 Supply, Single-Zone VAV, 1520 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

1 GWH-1:
Gas Storage Water Heater, Capacity: 60 gallons, Input Rating: 120 kBtu/h w/ Circulation Pump
Proposed Efficiency: 95.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

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

Eric Wolf, PE
Name - Title

Signature

Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 75.0% were addressed directly in the COMcheck software

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5, C403.2.4.6 [FO9][3]	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

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

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1, C404.6.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8][3]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

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LOS ANGELES, CALIFORNIA 90018

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NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER MICHAEL E. CHAMBERLAIN
COA:P-2368
09/09/2025

PROJECT INFORMATION:
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CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

MECHANICAL COMPLIANCE FORMS

M-020

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.13 [ME71]²	Unenclosed spaces that are heated use only radiant heat.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.6.1 [ME59]³	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems with design outdoor air of less than 1200 cfm.
C403.2.6.2 [ME115]³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.7 [ME57]¹	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.8 [ME116]³	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.9 [ME60]²	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.9 [ME10]³	Ducts and plenums sealed based on static pressure and location.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.9.1.3 [ME11]³	Ductwork operating >3 in. water column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2.3.2.1 [ME121]³	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.4.4.6 [ME110]³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values.*

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

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C404.2.1 [ME111]²	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.2.1 [ME53]³	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123]³	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8]³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.2 [FI27]³	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1 [FI47]³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.1 [FI42]³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.2 [FI38]³	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.1.3 [FI20]³	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.2 [FI39]³	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.2.4.2.1, C403.2.4.2.2 [FI40]³	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4.2.3 [FI41]³	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.3 [FI11]³	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.4 [FI25]²	All piping insulated in accordance with section details and Table C403.2.10.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1 [FI12]³	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [FI28]³	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.1 [FI31]³	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.2 [FI10]³	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29]³	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI7]³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.3 [FI43]³	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.4 [FI30]³	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

sg
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STAMP:
NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER MICHAEL WOLF
COA:P-2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

DRAWN BY:	TAL
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

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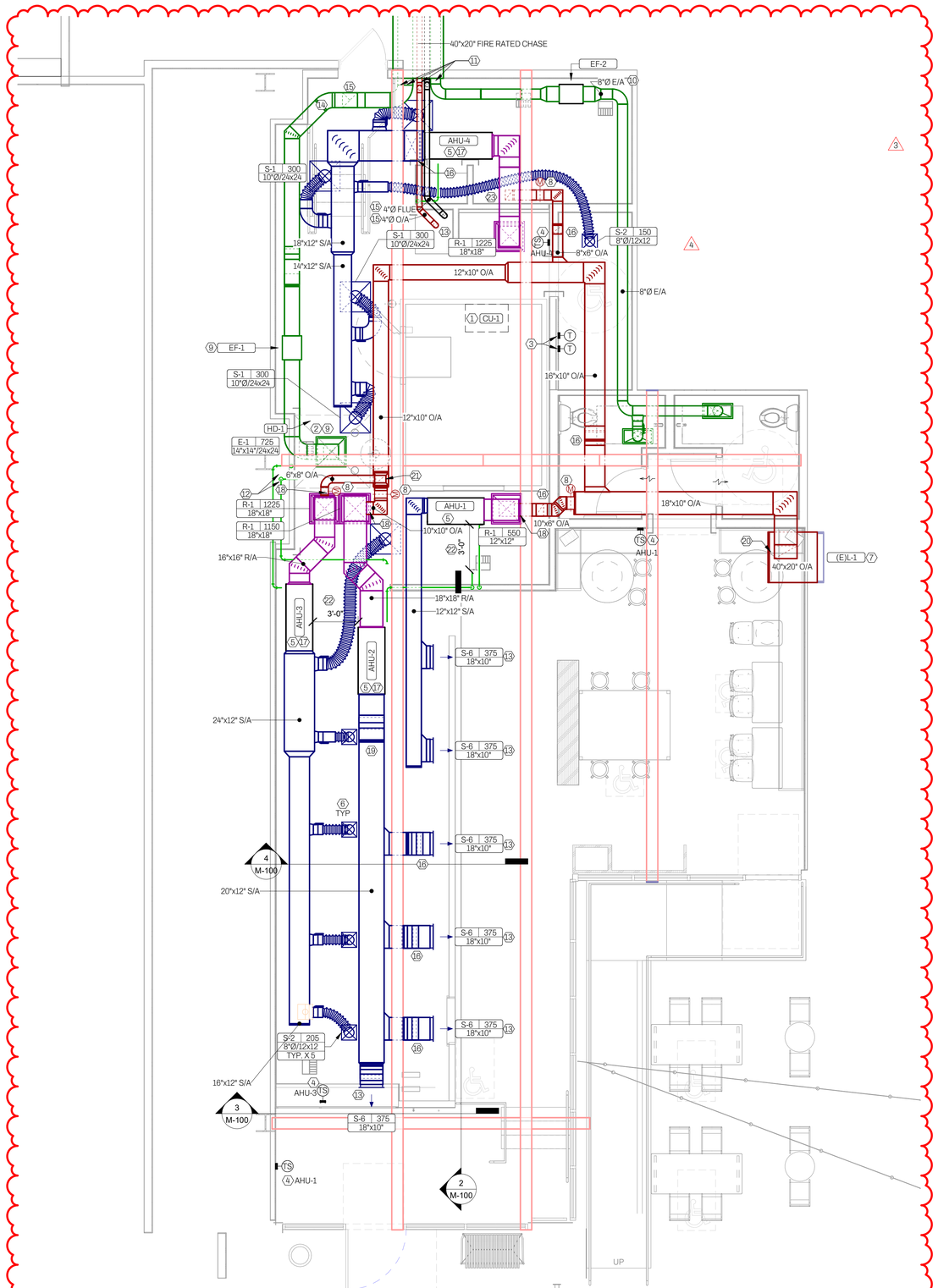
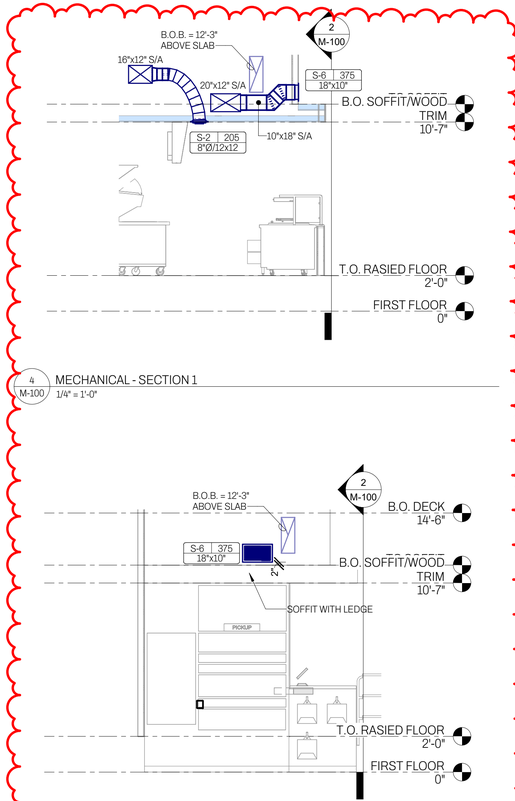
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

MECHANICAL COMPLIANCE FORMS

M-021

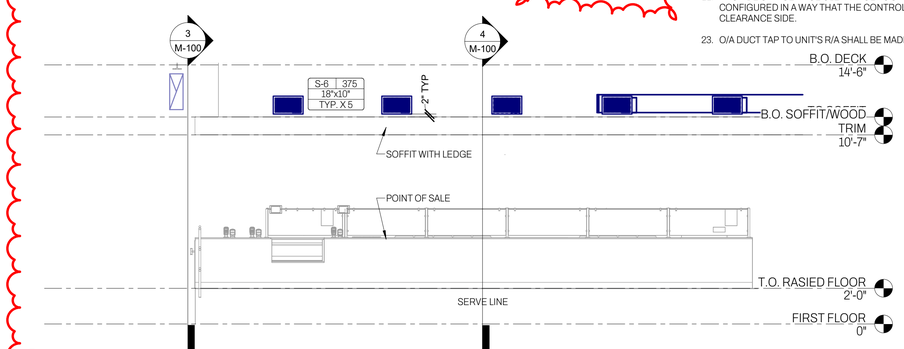


1 M-100 MECHANICAL - HVAC
1/4" = 1'-0"



4 M-100 MECHANICAL - SECTION 1
1/4" = 1'-0"

3 M-100 MECHANICAL - SECTION 8
1/4" = 1'-0"



2 M-100 MECHANICAL - SECTION 7
1/4" = 1'-0"

GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE GENERAL AND MECHANICAL CONTRACTOR TO FULLY INSPECT THE SITE PRIOR TO COMMENCEMENT.

B. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, BAR JOISTS, COLUMNS, ETC. AND COORDINATE DUCT LOCATIONS ACCORDINGLY.

C. DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO OWNER.

D. LOCATE THERMOSTATS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION.

E. NO EXPOSED DUCTWORK SHALL BE PERMITTED. COORDINATE WITH AOR AS REQUIRED.

KEY NOTES

1. NEW CONDENSOR FOR WALK-IN COOLER LOCATED ABOVE COOLER. COORDINATE EXACT LOCATION IN FIELD.
2. PROVIDE EXHAUST GRILLE OVER KITCHEN CANOPY HOOD (BY OTHERS). DUCTING FROM EXHAUST FAN TO GRILLE IS SIZED TO ACCOMMODATE THE ADDITION OF A TYPE 2 HOOD IN THE FUTURE. COORDINATE EXACT GRILLE LOCATION WITH ARCHITECT/KITCHEN DESIGN TEAM. ROUTE UNDER BEAM AS SHOWN.
3. PROVIDE THERMOSTATS WHERE INDICATED. INSTALL AT 48" ABOVE FINISHED FLOOR. COORDINATE WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT ACCESS IS NOT BLOCKED.
4. INSTALL TEMPERATURE SENSOR FOR RTU WHERE INDICATED. COORDINATE WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
5. CONTRACTOR SHALL FURNISH AND INSTALL REME HALO AIR PURIFICATION SYSTEM IN SUPPLY AIR DUCT AND REQUIRED TRANSFORMER PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL FURNISH THROUGH NATIONAL ACCOUNT AND INSTALL.
   NATIONAL ACCON: NATIONAL TAB
   CONTACT - WILL TURNBOUGH,
   PHONE (855)682-6822, EXT. 4-2.
   EMAIL - WILL@NATIONALTAB.COM.
6. PROVIDE EQUAL SPACING BETWEEN DIFFUSERS AND LIGHTING IN SOFFIT. COORDINATE EXACT LOCATIONS WITH CONTRACTOR.
7. EXISTING LOUVER TO REMAIN. BLOCKOUT UNUSED PART OF LOUVER FROM INSIDE AND INSULATE ACCORDINGLY. PROVIDE 2'-0" MINIMUM FULL SIZED PLENUM FOR O/A.
8. PROVIDE MOTORIZED DAMPER SHALL INTERLOCK WITH AHU PER NECECC C403.2.4.3.
9. CONTRACTOR SHALL FURNISH EF-1 AND HD-1 THROUGH NATIONAL ACCOUNT. CONTRACTOR SHALL INSTALL INLINE EXHAUST FAN, EF-1, AND INTERLOCK WITH HOOD, HD-1. REFER TO SCHEDULE ON SHEET M-300 FOR ADDITIONAL DETAILS.
10. CONTRACTOR SHALL FURNISH EF-2 AND HD-1 THROUGH NATIONAL ACCOUNT. CONTRACTOR SHALL INSTALL INLINE EXHAUST FAN, EF-2, AND INTERLOCK WITH TIMECLOCK TO RUN CONTINUOUSLY DURING OPERATING HOURS. REFER TO SCHEDULE ON SHEET M-300 FOR ADDITIONAL DETAILS.
11. CONTRACTOR TO ROUTE HOOD EXHAUST, WATER HEATER COMBUSTION AIR, WATER HEATER FLUE, AND RESTROOM EXHAUST THROUGH EXISTING 40"X20" RATED SHAFT TO PARKING GARAGE BEHIND TENANT SPACE. FIELD COORDINATE EXACT ROUTING IN ORDER TO RUN RUN DUCT STRAIGHT THROUGH SHAFT. SEAL RATED PENETRATION WEATHERTIGHT WITH FIRESTOP AFTER RUNNING ALL DUCTWORK.
12. ROUTE AHU CONDENSATE DOWN THROUGH WALL TO FLOOR SINK/MOP SINK BELOW AS SHOWN. FIELD COORDINATE EXACT ROUTING.
13. INSTALL ALL DINING ROOM DIFFUSERS AT SAME HEIGHT AS SHOWN ON MECHANICAL ELEVATIONS. ANGLE DIFFUSER DOWN TO PUSH AIR BELOW BEAM.
14. PROVIDE CLEAN SWEEP TRANSITION WITH CLEANOUT ON END.
15. ROUTE TIGHT TO STRUCTURE. DROP DOWN TO SHAFT HEIGHT WHERE SHOWN. COORDINATE WITH OTHER DUCTS ROUTING THROUGH SHAFT IN THIS AREA.
16. DROP BELOW BEAM AND ROUTE TIGHT TO BEAM AS SHOWN.
17. ROUTE UNIT AND UNIT DUCTWORK TIGHT TO STRUCTURE.
18. O/A DUCT TAP TO UNIT'S R/A SHALL BE MADE ON SIDE OF DUCT DROP.
19. DROP UNIT DUCTWORK TO ABOVE FINISHED CEILING HEIGHT/SUPPORTS.
20. DUCTWORK TAP SHALL BE ON TOP OF O/A PLENUM BOX. COORDINATE WITH RR WALL, BEAM AND CEILING HEIGHTS.
21. DUCTWORK TAP FROM MAIN O/A DUCT TO AHU-3 SHALL BE MADE ON TOP OF MAIN O/A DUCT.
22. PROVIDE UNIT SERVICE CLEARANCE AS SHOWN. UNIT SHALL BE CONFIGURED IN A WAY THAT THE CONTROLS SHALL BE ON SERVICE CLEARANCE SIDE.
23. O/A DUCT TAP TO UNIT'S R/A SHALL BE MADE ON BOTTOM OF R/A.

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STAMP:
NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER
COA:P-2368
09/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
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DRAWN BY:	TAL
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PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROCT NO:	20240137.0
TEMPLATE VERSION:	2401

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5	09/26/2025	BULLETIN 02

HVAC PLAN

4
3
M-100

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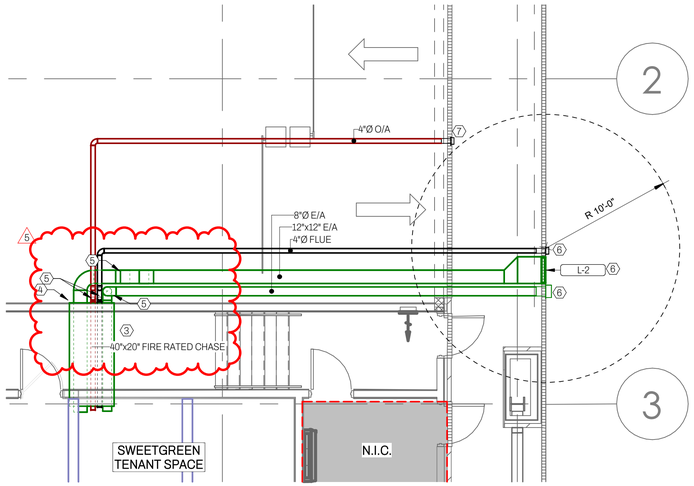
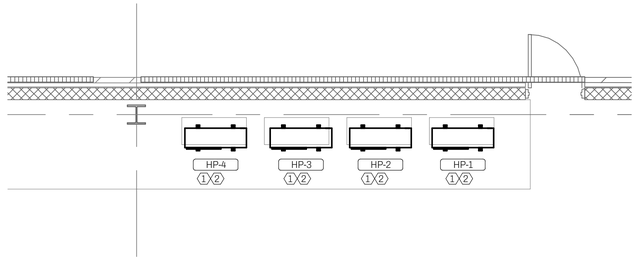
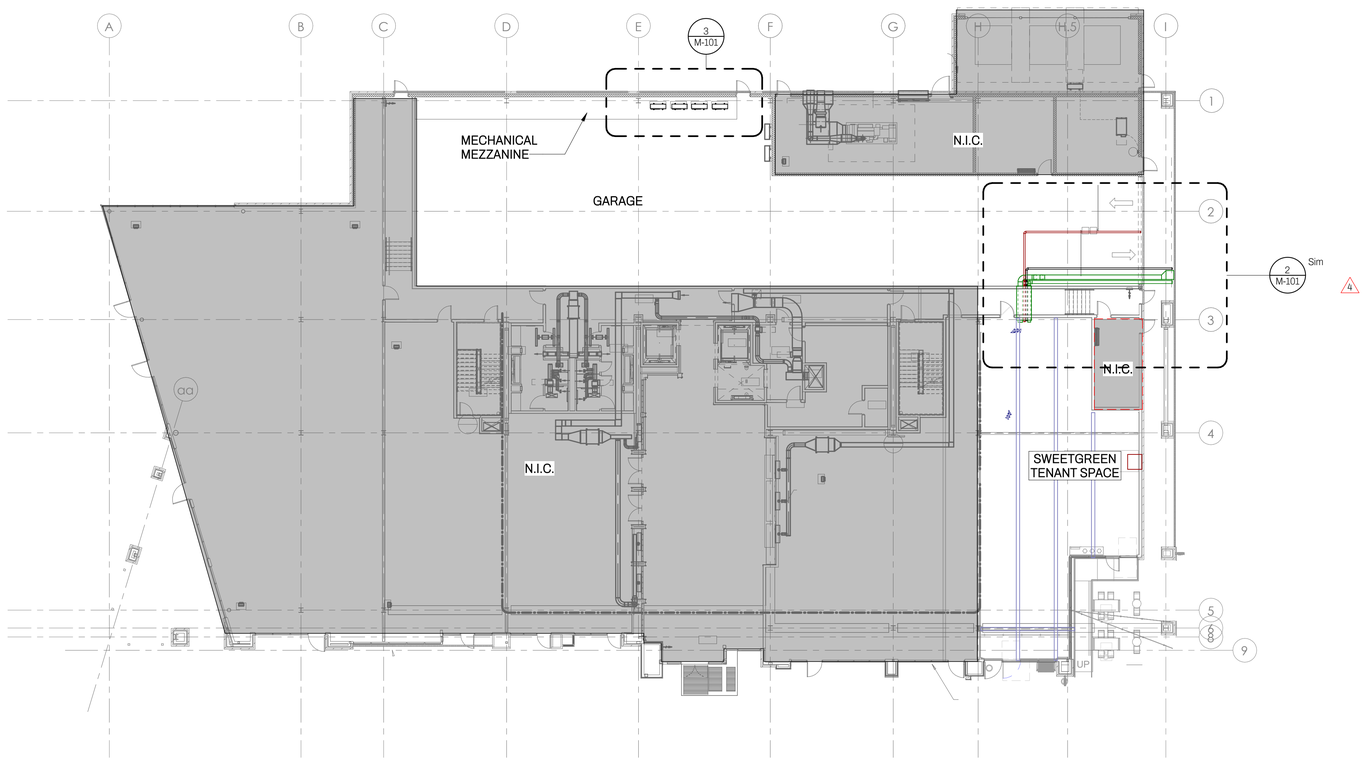


2 M-101 MECHANICAL - HVAC - EXHAUST TERMINATION AT GARAGE
3/16" = 1'-0"



3 M-101 MECHANICAL - HVAC - MECHANICAL MEZZANINE
1/4" = 1'-0"



1 M-101 MECHANICAL - LEVEL 1 OVERALL HVAC PLAN
1/16" = 1'-0"

GENERAL NOTES

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D. CONTRACTOR SHALL MAINTAIN 10' CLEARANCE FROM EXHAUST AND PLUMBING VENTS TO OUTSIDE AIR INTAKES. COORDINATE WITH CONTRACTOR FOR EXISTING PLUMBING VENT. VENT PIPING SHALL BE EXTENDED TO TERMINATE 3' ABOVE UNIT'S TOP ELEVATION.

KEY NOTES

1. NEW HEAT PUMP FOR TENANT SPACE LOCATED ON MECHANICAL MEZZANINE. COORDINATE EXACT LOCATION OF UNITS ON MEZZANINE WITH LANDLORD AND LANDLORD CONTRACTOR. MAINTAIN MANUFACTURER REQUIRED OPERATING AND SERVICE CLEARANCES.
2. MAINTAIN HEAT PUMP SPLIT SYSTEM LINESET LENGTH REQUIREMENTS AND PROVIDE LONG LINESET APPLICATION WHERE NECESSARY. LINESET SHALL BE ROUTED FROM TENANT SPACE, HIGH IN GARAGE TO MECHANICAL MEZZANINE. COORDINATE EXACT ROUTING OF LINESETS IN ACCORDANCE WITH LANDLORD. SEAL ALL FIRE RATED PENETRATIONS ACCORDINGLY.
3. CONTRACTOR TO ROUTE HOOD EXHAUST, WATER HEATER COMBUSTION AIR, WATER HEATER FLUE, AND RESTROOM EXHAUST THROUGH EXISTING 40"X20" RATED SHAFT TO PARKING GARAGE BEHIND TENANT SPACE. FIELD COORDINATE EXACT ROUTING IN ORDER TO RUN RUN DUCT STRAIGHT THROUGH SHAFT. SEAL RATED PENETRATION WEATHERTIGHT WITH FIRESTOP AFTER RUNNING ALL DUCTWORK.
4. EXISTING PIPING FOR BUILDING IN THIS AREA. COORDINATE WITH BUILDING CONTRACTOR TO PROVIDE A FREE, UNOBSTRUCTED PATH TO TERMINATION POINT. COORDINATE WITH BUILDING CONTRACTOR TO RELOCATE PIPING IN ORDER TO MEET ORIGINAL DESIGN INTENT AND NOT AFFECT FUNCTION OF BUILDING SYSTEM.
5. TRANSITION DUCT TIGHT TO STRUCTURE. MINIMIZE ELBOWS AND UNNECCESSARY TRANSITIONS AS POSSIBLE. ALL ELBOW TRANSITIONS SHALL BE LONG SWEEPING ELBOWS. CLOSELY COORDINATE ROUTING WITH BUILDING ENGINEER AND BUILDING CONTRACTOR.
6. ROUTE AND EXTEND FLUE FOR WATER HEATER, HOOD EXHAUST, AND RESTROOM EXHAUST DUCTWORK TOGETHER AND TIGHT TO STRUCTURE TO TERMINATE AT FACE OF EXTERIOR WALL ABOVE. MAINTAIN A MINIMUM OF 10'-0" FROM INTAKE LOUVER AND 10'-0" ABOVE FINISHED GRADE. HOOD EXHAUST SHALL TERMINATE AT WALL LOUVER AND FLUE AND RESTROOM EXHAUST SHALL TERMINATE AT EXHAUST WALL CAP. EXACT ROUTING SHALL BE COORDINATED WITH BUILDING ENGINEER AND BUILDING CONTRACTOR.
7. ROUTE WATER HEATER COMBUSTION AIR INTAKE TIGHT TO STRUCTURE TO WALL CAP TERMINATION. TERMINATE WITH METAL MESH INSECT SCREEN. MAINTAIN CODE REQUIRED CLEARANCES FROM ALL EXHAUST. CONFIRM ROUTING WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 41016 JOSHUA MICHAEL HARRIS
COA:P-2368
09/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
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TEMPLATE VERSION:	2401

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5 5	09/26/2025	BULLETIN 02

HVAC MEZZANINE AND GARAGE PLAN

M-101

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SPLIT-SYSTEM HEAT PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	NOMINAL CAPACITY	SERVES	INDOOR UNIT					OUTDOOR UNIT								REMARKS
					TOTAL CFM	OA CFM	FAN ESP	MOTOR HP	BACKUP HEAT	MODEL	COOLING			HEATING		V/PH/HZ	MCA/MOCP	
											TOTAL	SENSIBLE	SEER2	HIGH TEMP	HSPF2			
AHU-/HP-1	DAIKIN	FXTA24AAVJUA	2.0 TON	SEATING	750 CFM	200 CFM	0.50 IN-WG	1.00 HP	0.0 KW	RXTA24AAVJU	23,000 BTU/H	16,800 BTU/H	16	25,800 BTU/H	8.2	208/1/60	19.8 / 20	ALL
AHU-/HP-2	DAIKIN	FXTA48AAVJUA	4.0 TON	SEATING	1,500 CFM	350 CFM	0.50 IN-WG	1.00 HP	0.0 KW	RXTA48AAVJU	45,500 BTU/H	34,800 BTU/H	16	46,000 BTU/H	8.5	208/1/60	29.4 / 30	ALL
AHU-/HP-3	DAIKIN	FXTA48AAVJUA	4.0 TON	KITCHEN	1,350 CFM	125 CFM	0.50 IN-WG	1.00 HP	0.0 KW	RXTA48AAVJU	45,500 BTU/H	34,800 BTU/H	16	46,000 BTU/H	8.5	208/1/60	29.4 / 30	ALL
AHU-/HP-4	DAIKIN	FXTA48AAVJUA	4.0 TON	KITCHEN	1,350 CFM	125 CFM	0.50 IN-WG	1.00 HP	0.0 KW	RXTA48AAVJU	45,500 BTU/H	34,800 BTU/H	16	46,000 BTU/H	8.5	208/1/60	29.4 / 30	ALL

REMARKS:
1. EQUIPMENT SHALL BE PROCURED THROUGH A DAIKEN NATIONAL ACCOUNT. ANY CHANGES OR VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DAIKIN NATIONAL ACCOUNT TEAM. CONTACT PAUL ROMERO (714)632-9800, PROMERO@NSWCLA.COM.
2. PROVIDE HIGH EFFICIENCY R32 CHLORINE-FREE REFRIGERANT TO UNIT.
3. ESP SHOWN DOES NOT INCLUDE PRESSURE DROP THROUGH FILTERS. FAN MOTOR SHALL BE ECM TYPE.
4. PROVIDE FACTORY INSTALLED THERMAL EXPANSION VALVE (TXV) AND TIME-DELAY RELAY.
5. PROVIDE INTERNAL DRAIN PAN AND DRAIN PLAN LEVEL SENSOR. INTERNAL FLOAT SWITCH SHALL BE WIRED FOR UNIT SHUTDOWN.
6. PROVIDE UNIT WITH FACTORY FURNISHED DISCONNECT. PROVIDE NON-FUSED DISCONNECT SWITCH.
7. PROVIDE DRAIN PAN AND DRAIN PLAN LEVEL SENSOR.
8. AUXILIARY HEATER RATING SHOWN AT 240 VOLTS. INDOOR UNIT SHALL HAVE A SINGLE POINT POWER CONNECTION.
9. INSTALL OUTDOOR UNIT ON 4" CONCRETE BASE WITH NEOPRENE PAD ISOLATORS. CONTROL WIRING IN FLEX CONDUIT. LOW AMBIENT CONTROLS AND ANTI-SHORT CYCLE TIMER.
10. PROVIDE HONEYWELL TH832 THERMOSTATS WITH LOCKABLE COVERS (MODEL CG511A1000 OR EQUAL). ALTERNATE - MODEL DA271C - COMMERCIAL 7 DAY PROGRAMMABLE WIFI THERMOSTAT.
11. PROVIDE COMPRESSOR START ASSIST CAPACITOR AND RELAY, CRANKCASE HEATER, EVAP FREEZE TSTAT, ISOLATION RELAY, AND LOW AMBIENT ACCESSORIES
12. PROVIDE WITH MIXING BOX AND FILTER BOX.
13. PROVIDE WITH DISCHARGE AIR TEMPERATURE DEVICE.
14. PROVIDE UNIT WITH 20 YEAR WARRANTY, AND ALL FUNCTIONAL PARTS COVERED BY A 5-YEAR PARTS WARRANTY.

* CONFIRM ALL UNIT DIMENSIONS WITH MANUFACTURER AND COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DESIGNS.

AIR BALANCE SCHEDULE

MARK	(CFM) SUPPLY AIR	(CFM) RETURN	(CFM) OA	(CFM) EXHAUST	(CFM) TOTAL:
AHU/HP-1	750	550	200		200
AHU/HP-2	1500	1150	350		350
AHU/HP-3	1350	1225	125		125
AHU/HP-4	1350	1225	125		125
EF-1				-725	-725
EF-2				-100	-100
NET PRESSURIZATION (CFM):					-30

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	FACE SIZE	MATERIAL	MOUNTING STYLE	REMARKS
E-1	TITUS	OMNI	PLAQUE FACE EXHAUST	24X24	STEEL	SURFACE	1, 3, 4
E-2	TITUS	350FL	EXHAUST GRILLE WITH 3/4" BLADE SPACING, 35 DEGREE DEFLECTION AND FRONT BLADES PARRALEL TO SHORT DIMENSION	24X12	ALUMINUM	SURFACE	1-4
R-1	TITUS	350FL	RETURN GRILLE WITH 3/4" BLADE SPACING, 35 DEGREE DEFLECTION AND FRONT BLADES PARRALEL TO SHORT DIMENSION	SEE PLANS	ALUMINUM	LAY-IN	1, 3, 4
S-1	TITUS	OMNI	PLAQUE FACE DIFFUSER	24X24	ALUMINUM	LAY-IN	ALL
S-2	TITUS	OMNI	PLAQUE FACE DIFFUSER	12X12	ALUMINUM	SURFACE	ALL
S-6	TITUS	300FL	DOUBLE DEFLECTION SUPPLY REGISTER WITH 3/4" BLADE SPACING AND FRONT BLADES PARRALEL TO LONG DIMENSION	SEE PLANS	ALUMINUM	SURFACE	1, 3, 4

REMARKS:
1. COORDINATE BORDER TYPE AND FINISH WITH ARCHITECT PRIOR TO PURCHASING.
2. MATCH SNAPLOCK AND FLEXIBLE DUCT RUNOUT SIZES AS NOTED ON PLANS.
3. MODULE SIZE INDICATED INCLUDES NOMINAL BORDER SIZE.
4. PROVIDE OPPOSED BLADE MANUAL VOLUME DAMPER FOR AIRFLOW ADJUSTMENT ACCESSIBLE THROUGH GRILLE FACE.
5. PROVIDE FACTORY-FABRICATED TRANSITION BOOT FOR DUCT CONNECTIONS.

MINIMUM VENTILATION CALCULATIONS

UNIT NAME	OCCUPANCY CATEGORY	ZONE FLOOR AREA	ZONE POPULATION (RA)	ZONE DENSITY (PZ / 1000 SF)	OUTDOOR AIRFLOW RATE PER PERSON (AZ)	OUTDOOR AIRFLOW RATE PER AREA (PZ)	ZONE AIR DISTRIBUTION EFFECTIVENESS (EZ)	BREATHING ZONE OUTDOOR AIRFLOW (VBZ)	ZONE OUTDOOR AIR FLOW (VOZ)
AHU-1/AHU-2	DINING ROOMS	842 SF	38	70	7.5 CFM	0.18 CFM/FT²	0.8	437 CFM	550
AHU-1/AHU-2									550
AHU-3/AHU-4	KITCHEN (COOKING)	1030 SF	10	20	7.5 CFM	0.12 CFM/FT²	0.8	199 CFM	250
AHU-3/AHU-4									250

MINIMUM EXHAUST REQUIREMENTS

UNIT NAME	ROOM NAME	OCCUPANCY CATEGORY	NUMBER OF FIXTURES	ZONE FLOOR AREA	EXHAUST AIRFLOW DENSITY	ASHRAE EXHAUST AIRFLOW PER UNIT	CALCULATED AIRFLOW	DESIGN AIRFLOW
EF-1	KITCHEN	KITCHEN (COOKING)	0	1030 SF	0.7 CFM/FT²	0 CFM	721 CFM	725 CFM
EF-1							721 CFM	725 CFM
EF-2	RESTROOMS	TOILETS - PUBLIC - CONTINUOSLY	2	297 SF	0 CFM/FT²	50 CFM	100 CFM	100 CFM
EF-2							100 CFM	100 CFM

WALK-IN COOLER REFRIGERANT CALCULATIONS

CODE: NORTH CAROLINA MECHANICAL CODE 2018, ADOPTS WITH AMENDMENTS: IMC 2015
VOLUME: 928 CU FT
REFRIGERANT TYPE: R448A
REFRIGERANT CLASSIFICATION: A1
REFRIGERANT CHARGE: 9 LBS
HORSEPOWER: 1.5 HP
LOCATION: ON COOLER
SPECIFIED REFRIGERANT DENSITY: 9.7 LBS / 1000 CU FT
MAX. REFRIG. DENSITY PER CODE: 24 LBS / 1000 CU FT
DETECTOR REQUIRED: NO

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SERVES	AIRFLOW RATE	ESP	MOTOR			MAXIMUM SONES	VOLTAGE	PHASE	FLA	MCA	MOCP	WEIGHT	REMARKS
							POWER	RPM	DRIVE								
EF-1	CAPTIVEAIRE	SIF11DD	INLINE DIRECT DRIVE	HOOD	725 CFM	1.00 IN-WG	1.00 HP	1938	DIRECT	12.4	208 V	3	3.0 A	3.8 A	15.0 A	206 LB	1,3,4,5,6,7,8,9,10,12
EF-2	CAPTIVEAIRE	DFA-150-CA	INLINE DIRECT DRIVE	RESTROOMS	100 CFM	0.40 IN-WG	0.15 HP	1961	DIRECT	N/A	115 V	1	1.0 A	1.3 A	15.0 A	15 LB	1,2,4,5,6,7,8,9,11,12

REMARKS:
1. FAN SHALL BE AMCA CERTIFIED AND UL LISTED FOR SOUND AND PERFORMANCE.
2. PROVIDE WITH 3 AMP FAN MOUNTED SPEED CONTROL FOR AIRFLOW ADJUSTMENT.
3. PROVIDE WITH VAV PACKAGE WITH MANUAL CONTROL (VFD FACTORY MOUNTED).
4. PROVIDE SPRING/NEOPRENE ISOLATION HANGERS.
5. PROVIDE UNIT WITH NAME PLATE TO INCLUDE DESIGNATION AND AREA SERVED BY FAN.
6. PROVIDE MANUFACTURER'S 2 YEAR WARRANTY.
7. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
8. PROVIDE WITH BACKDRAFT DAMPER.
9. PROVIDE WITH ADAPTERS AS NECESSARY TO MAKE DUCT CONNECTIONS.
10. EQUIPMENT SHALL BE INTERLOCKED WITH HOOD SWITCH.
11. EQUIPMENT SHALL BE INTERLOCKED WITH SWEETGREEN TIMECLOCK TO RUN CONTINUOUSLY DURING OPERATING HOURS.
12. EQUIPMENT SHALL BE PROCURED THROUGH A CAPTIVEAIRE NATIONAL ACCOUNT. ANY CHANGES OR VARIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CAPTIVEAIRE NATIONAL ACCOUNT TEAM - CONTACT KEVIN BOEHM - REG40@CAPTIVEAIRE.COM

TYPE II HOOD SCHEDULE

MARK	BASIS OF DESIGN		TYPE	DESIGN CFM	V/P/H	MAX CFM	SUPPLIER/ INSTALLER	WEIGHT (LBS)	REMARKS:
	MANUFACTUR...	MODEL							
HD-1	CAPTIVEAIRE	6012 VHB-G-ND	TYPE II CANOPY HOOD	930	120/1/60	930	KES	174	ALL

REMARKS:
1. SEE PLANS FOR DUCT SIZE AND ROUTING.
2. HOOD SHALL BE TYPE II, FOR SMELLS, HEAT, AND MOISTURE. INSTALLED BY GC.
3. PROCURED THROUGH NATIONAL ACCOUNT - CONTACT CAPTIVEAIRE FOR INFORMATION - NATIONAL ACCOUNT CONTACT KEVIN BOEHM, AT REG_40 @CAPTIVEAIRE.COM.

CONDENSING UNIT SCHEDULE

MARK	DESCRIPTION	COMPRESSORS	FURNISHED BY	INSTALLED BY	MANUFACTURER	REMARKS:
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	1	KES	KES	BY KES	ALL

REMARKS:
1. FURNISHED WITH THE WALK-IN COOLER. (BY OTHERS)

EXTERIOR WALL LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	NOMINAL SIZE	DEPTH	DESIGN AIRFLOW RATE	DESIGN FREE AREA VELOCITY	MIN. FREE AREA	MAX. PRESSURE DROP	REMARKS
L-2	GREENHECK	ESD-435	DRAINABLE BLADE LOUVER	24"X18"	4"	930 CFM	755 FPM	1.23 SF	0.10 IN-WG	ALL

REMARKS:
1. PROVIDE WITH MINIMUM OF 24" DEEP PLENUM WITH FULL SIZED LOUVER CONNECTION.

sg

sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:

WOLF ENGINEERING

P.O. BOX 38 | DALTON, GA 30722

STAMP:

09/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

DRAWN BY:	TAL
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
A	03/17/2025	ADDENDUM A
C	04/29/2025	ADDENDUM C
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1
5	09/26/2025	BULLETIN 02

HVAC SCHEDULES

M-300

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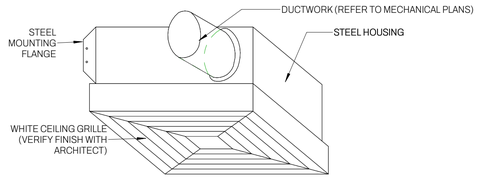
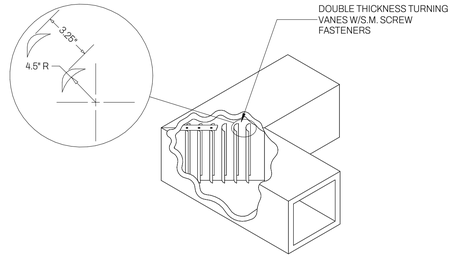


GENERAL NOTES:
1. PROVIDE BACKDRAFT DAMPER W/ BIRDSCREEN.
2. FLASH AND SEAL WALL/ROOF CAP.
3. PROVIDE INTERNAL ISOLATION AND SOUND INSULATION.
4. SUPPORT FAN FROM STRUCTURE.
5. REFER TO FAN SCHEDULE FOR FAN CONTROL.

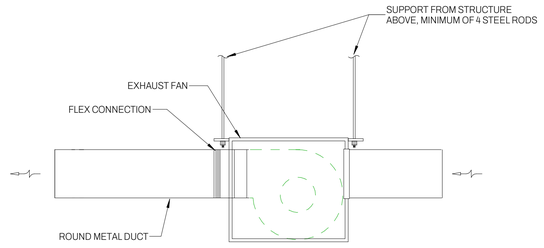
7 M-400 CABINET CEILING EXHAUST FAN
NOT TO SCALE

ENGRAVED PLASTIC TAG WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT, WATERPROOF DOUBLE SIDED TAG TAPE AT VISIBLE LOCATION ON MECHANICAL EQUIPMENT. LABEL ALL INDOOR AND OUTDOOR UNITS WITH NOTATION SHOWN ON PLANS.

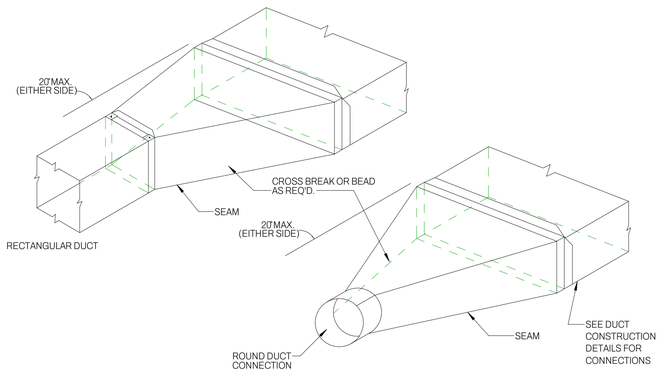
8 M-400 TYPICAL ENGRAVED TAG DETAIL
NOT TO SCALE



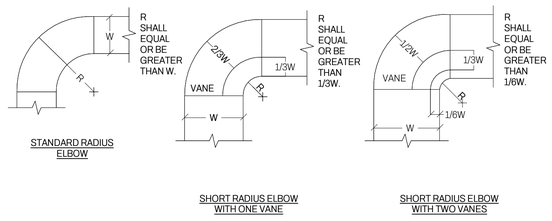
9 M-400 TURNING VANE DETAIL
NOT TO SCALE



10 M-400 INLINE EXHAUST FAN
NOT TO SCALE

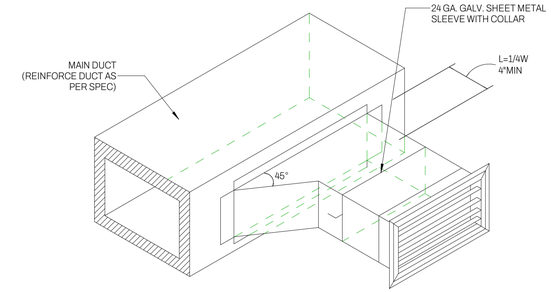


4 M-400 TRANSITION DETAIL
NOT TO SCALE

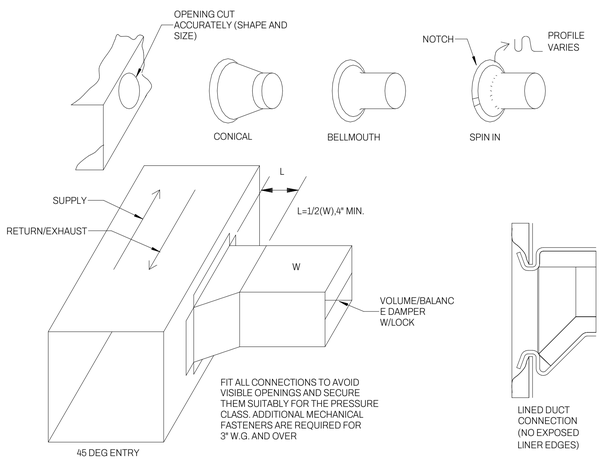


GENERAL NOTE
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED, AND FASTENED AS RECOMMENDED BY SMACNA.

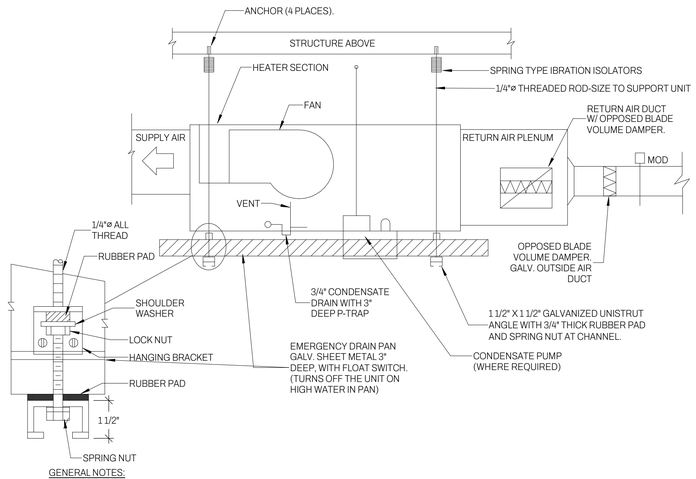
5 M-400 TYPICAL RADIUS ELBOW DETAIL
NOT TO SCALE



6 M-400 SIDEWALL REGISTER DETAIL
NOT TO SCALE

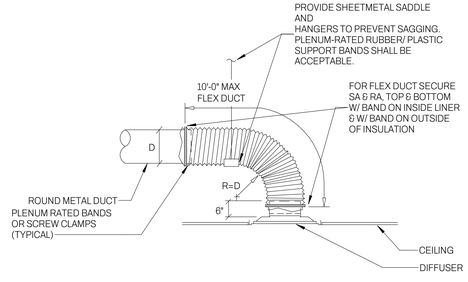


1 M-400 DUCT BRANCH CONNECTION DETAIL
NOT TO SCALE



GENERAL NOTES:
1. GLASS FAB AND MASTIC SUPPLY & RETURN DUCT FOR 4 FEET FROM UNIT CONNECTION DUCT TAPE ALL SUPPLY SIDE JOINTS ON UNIT.
2. MOTORIZED OUTSIDE AIR DAMPER (MOD) TO BE RUSKIN CD-50 WITH BELIMO LF24-SR, ELECTRIC PROPORTINOAL DAMPER ACTUATOR, INTERLOCED WITH AHU'S FAN. PROVIDE MANUAL VOLUME DAMPER FOR OUTDOOR AIR BALANCING.

2 M-400 HORIZONTAL AIR HANDLING UNIT DETAIL
NOT TO SCALE



3 M-400 DIFFUSER CONNECTION DETAIL
NOT TO SCALE

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ENGINEER OF RECORD:
WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 41016 MICHAEL K. WOLF MECHANICAL
COA: P – 2368
09/09/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

DRAWN BY:	TAL
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
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3	07/29/2025	PERMIT AMENDMENT
4	09/09/2025	PERMIT AMENDMENT RESUBMIT #1

HVAC DETAILS

M-400

ABBREVIATIONS

Ø	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
AD	AREA DRAIN
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEAN OUT
CW	COLD WATER
D	DEGREE
DB	DRY BULB
DIA	DIAMETER
DBP	DOMESTIC WATER BOOSTER PUMP
DCP	DOMESTIC WATER CIRCULATING PUMP
DN	DOWN
DW	DISTILLED WATER
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
E/A	EXHAUST AIR
EXIST	EXISTING
ET	EXPANSION TANK
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOOR
FP	FIRE PUMP
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FOOT/FEET
GAL	GALLON
GPM	GALLONS PER MINUTE
GF	GAS-FIRED
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
GW	GREASE WASTE
HB	HOSE BIB
HP	HORSE POWER
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT
IN	INCH
INV	INVERT
LP	LOW PRESSURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
O	OXYGEN
ORD	OVERFLOW ROOF DRAIN
PD	PRESSURE DROP
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PWR	POWER
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
SF	SQUARE FOOT
S/A	SUPPLY AIR
SAN	SANITARY
SF	SQUARE FOOT
SM	SURFACE MOUNT
SP	STANDPIPE
S/P	SUMP PUMP
STM	STEAM
TDR	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAC	VACUUM
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEAN OUT
WH	WALL HYDRANT

PLUMBING SYMBOLS

2"	NOMINAL PIPE SIZE
	ABOVE GROUND PIPING
	BELOW GROUND PIPING
1/8" / 12" SLOPE	PIPE SLOPE (WHEN APPLICABLE)
(E)	EXISTING PIPE TO REMAIN
	PIPE TO BE DEMOLISHED
CW	DOMESTIC COLD WATER
NPW	HARD COLD WATER
HW	HOT WATER
HW 140°	HOT WATER 140°
HW-R	HOT WATER RECIRCULATION
HW-R 140°	HOT WATER RECIRCULATION 140°
SS	SANITARY SEWER
V	SANITARY VENT
WV	SANITARY WET VENT
CWV	COMBINATION WASTE & VENT
CD	CONDENSATE DRAINAGE
ID	INDIRECT WASTE
GW	GREASE WASTE
GV	GREASE VENT
PD	PUMP DISCHARGE
SD	STORM DRAINAGE
PD	PUMP DISCHARGE
ST	SIPHONIC PRIMARY
ST SEC	SIPHONIC SECONDARY
CA	COMPRESSED AIR
G	NATURAL GAS
LP	PROPANE GAS
	PIPE RISE / DROP

PIPE ACCESSORY NOTES

4" FCO	CLEAN OUT
2" BACKWATER	SWING CHECK
2" CHECK	CHECK VALVE
2" CHECK	ALTERNATE CHECK VALVE
2" BALANCE	BALANCING VALVE
2" CIRC	CIRCUIT SETTER
2" GATE	GATE VALVE
2" QUICK	QUICK OPENING VALVE
2" S/O	BALL VALVE
2" STRAIN	FLUID STRAINER
1" GAS-CNTRL	EMERGENCY GAS SHUTOFF
1" PLUG	PLUG VALVE
1" GAS COCK	GAS SHUTOFF COCK
1" REG	GAS REGULATOR
1" T/V	THERMOSTATIC VALVE
PRIMER	TRAP PRIMER
2" M-CNTRL	ELEC. CONTROL VALVE
TMV-T/P	MIXING VALVE
TMV-EM	EMERGENCY MIXER
2" PRV	PRESSURE REDUCING VALVE
2" METER	WATER METER
1 1/2" METER	IRRIGATION METER
	DOUBLE CHECK VALVE
	REDUCED PRESSURE ZONE

PLUMBING FIXTURE NOTES

FLOOR DRAIN	DESIGN SIZE
0" FD-1	IDENTITY TYPE
2" FD-3	FLOOR DRAIN W/ DEEP SEAL TRAP
3" AD-1	AREA DRAIN (NO TRAP)
6" DD-1	DECK DRAIN
3" HD-1	HUB DRAIN (FUNNEL TYPE)
3" FS-1	FLOOR SINK
8" SD-12	STORM DRAIN
6" SD-1	COMBINATION DRAIN
2000 SF	RAINFALL SURFACE AREA

GENERAL PLAN SYMBOLS

	PLAN REVISION NUMBER
# / P-#	DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
#	KEYNOTE SYMBOL
	CONTINUATION SYMBOL
	POINT WHERE NEW CONNECTS TO EXISTING
ROOM 001	ROOM NAME / NUMBER
	AREA BEING DEMOLISHED
	AREA NOT IN CONTRACT

CONNECTION TO EXISTING PLUMBING SYSTEMS

A. INSTALLATION OF WORK AND NEW CONNECTION TO EXISTING PLUMBING LINES SHALL BE MADE AT TIME WHICH WILL NOT INTERFERE OR INTERRUPT THE NORMAL BUILDING OPERATION.

B. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.

C. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0" FROM THIS PLAN ON THE AS-BUILT DRAWINGS.

D. EXACT LOCATIONS, SIZE, AND ELEVATION OF EXISTING PIPING SHALL BE FIELD VERIFIED BEFORE START OF ANY WORK. ACTUAL FIELD CONDITIONS MAY REQUIRE ADJUSTMENT OR MODIFICATION TO PROPOSED ROUGHING, LAYOUT, AND ROUTING OF PIPING, INCLUDING POINT OF CONNECTION TO EXISTING WORK OF ADEQUATE SIZE TO ACCOMMODATE NEW WORK.

E. ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.

F. PROVIDE NECESSARY ADJUSTMENT OF NEW INSTALLATION DUE TO INTERFERENCE WITH BUILDING CONDITIONS, INCLUDING WORK OF OTHER TRADES.

G. PIPING MATERIAL, VALVES, PIPE SUPPORTS, PIPE COVERING, ETC. USED IN THE INSTALLATION OF WORK OF THIS CONTRACT SHALL BE NEW AND SHALL MATCH EXISTING, PROVIDING SAME MEETS ALL APPLICABLE BUILDING AND PLUMBING CODES.

H. PROVIDE NEW PLUMBING ROUGHING WITH CONNECTIONS NECESSARY OR REQUIRED FOR PROPER FUNCTION OF PLUMBING EQUIPMENT.

I. EXISTING PIPING SHALL BE MODIFIED AND/OR REMOVED TO POINT THAT WOULD ACCOMMODATE CONNECTION OF NEW (WATER AND WASTE) PLUMBING ROUGHING.

J. ROUTING OF NEW PIPING AND POINT OF CONNECTION TO EXISTING PIPING IS BASED ON ASSUMPTION THAT PIPING IS AT LOCATION SHOWN ON PLAN.

K. PROVIDE NECESSARY TEST TO DETERMINE TIGHTNESS OF EXISTING AND NEW PLUMBING PIPING SYSTEMS. ALL LEAKS AND OPEN OUTLETS FOUND DURING TEST SHALL BE REPAIRED, CAPPED OR PLUGGED, PERFORM ADDITIONAL TEST UNTIL IT IS DETERMINED THAT THE PLUMBING PIPING SYSTEMS IS WATER TIGHT.

L. CAP AND PLUG OF INACTIVE SANITARY PIPING SHALL BE TO POINT OF CONNECTIONS TO ACTIVE LINES. NO DEAD END SHALL BE PROVIDED.

M. ALL OPENINGS, HOLES, ETC; MADE FOR THE REMOVAL OF PLUMBING PIPING, FIXTURES, ETC; SHALL BE PATCHED WITH MATERIAL TO MATCH EXISTING.

N. IF FIELD CONDITION FINDS THAT EXISTING SANITARY, VENT, AND DOMESTIC WATER LINES CAN BE UTILIZED, CONNECT NEW SANITARY, VENT, AND DOMESTIC WATER LINES TO EXISTING. MAKE NECESSARY ADJUSTMENTS TO ACCOMMODATE NEW SANITARY, VENT AND DOMESTIC WATER LINES.

PLUMBING GENERAL NOTES

A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.

B. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF PLUMBING SYSTEMS.

C. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN THE TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. RESOLVE ALL QUESTIONS OR CONFLICTS WITH THE ENGINEER BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED. CONSULT THE ARCHITECT'S DRAWINGS FOR ALL GRADE AND FINISH FLOOR ELEVATIONS.

D. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS TO ENSURE PROPER CLEARANCE ABOVE ELECTRICAL SWITCHBOARDS, SWITCHGEAR, PANELBOARD, AND MOTOR CONTROL CENTERS WHERE REQUIRED.

E. CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.

F. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO COMMENCEMENT OF WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.

G. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTING, ETC.

H. CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

I. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT AT ONE TIME, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. PLUMBING CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT WITHOUT APPROVAL FROM PLUMBING ENGINEER, ARCHITECT, OWNER, AND INTERIOR DESIGNER (IF APPLICABLE).

J. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS OR CEILINGS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL OR CEILING IN WHICH IS INSTALLED.

K. TRENCHING, BACKFILL AND CONCRETE WORK ASSOCIATED WITH PLUMBING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.

L. LAYOUT PIPES TO FALL (CONCEALED) WITHIN PARTITION WALL OR CHASES. NOTIFY ARCHITECT IF ADDITIONAL WALL SPACE IS REQUIRED. COORDINATE PIPE DROP WITH FOOTINGS, STRUCTURAL STEEL, FIRE RATED WALLS, WHICH MAY FALL BELOW PARTITION WALL OR CHASE. MAKE NECESSARY ADJUSTMENT TO PIPING TO AVOID CONFLICT WITH BUILDING OBSTRUCTIONS. CONSULT WITH ARCHITECT AND CONTRACT DOCUMENTS FOR LOCATION OF ALL RATED WALLS, CEILINGS, FLOORS AND ROOF. FURNISH AND INSTALL APPROPRIATE AND APPROVED FIRE BARRIER AT ALL PENETRATIONS. INSTALLATION SHALL BE PER MANUFACTURES SPECIFICATIONS.

M. CONTRACTOR SHALL PROVIDE PIPE HANGERS FOR ALL PIPING. HANGER RODS AND DEVICES SHALL BE USED FOR SUPPORT OF ALL PIPING. MAKESHIFT DEVICES WILL NOT BE ACCEPTABLE. HANGER DEVICES SHALL BE SIZED TO FIT AROUND INSULATION. PROVIDE GALVANIZED STEEL SADDLES AS REQUIRED. PIPING SUPPORT SPACING SHALL COMPLY WITH LOCAL CODE REQUIREMENTS. NON-METALLIC PIPES SHALL BE PADDED WITH 1/8" THICK RUBBER, NEOPRENE, OR SOFT RESILIENT CLOTH.

N. SANITARY, VENT PIPING AND DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH LOCAL PLUMBING CODE.

O. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.

P. PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.

Q. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

R. PROVIDE CLEANOUTS IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS. CLEANOUTS SHALL BE INSTALLED PER CODE REQUIREMENTS.

S. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.

T. ROUTE DOMESTIC WATER, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.

U. ALL VENTS THRU ROOF SHALL BE MINIMUM OF TEN FEET FROM ANY FRESH AIR INTAKE

V. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN STATE. FIRE MARSHALL AND SHALL BE U.L. LISTED.

W. PROVIDE FLASHING AND/OR COUNTER FLASHING OF ALL EXTERIOR PENETRATIONS.

X. HANDICAPPED USE PLUMBING FIXTURES SHALL BE MOUNTED AT REQUIRED HEIGHTS AND WITH ALL RELATED ACCESSORIES AS REQUIRED BY THE ADMINISTRATIVE AUTHORITIES.

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sg

sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:

WOLF ENGINEERING

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STAMP:

05/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
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SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT

PLUMBING LEGEND, SYMBOLS, AND ABBREVIATIONS

P-001

7/29/2025 10:43:01 AM

SECTION 220500 - BASIC PLUMBING REQUIREMENTS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE GENERAL ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR THE INSTALLATION OF PLUMBING SYSTEMS.
B. WHEN USED IN THESE SPECIFICATIONS THE TERM " PROVIDE' IS DEFINED TO MEAN TO EQUIPMENT, ETC.

1.2 APPLICABLE STANDARDS
A. APPLICABILITY OF STANDARDS: EXCEPT WHERE THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.
B. CONFLICTING REQUIREMENTS: WHERE COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED, AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, REFER REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, AND UNCERTAINTIES TO THE ARCHITECT FOR A DECISION BEFORE PROCEEDING.
C. PUBLICATION DATES: WHERE THE DATE OF ISSUE OF A REFERENCED STANDARD IS NOT SPECIFIED, COMPLY WITH THE STANDARD IN EFFECT AS OF DATE OF CONTRACT DOCUMENTS.
D. COMPLY WITH THE REQUIREMENTS OF APPLICABLE LOCAL PLUMBING, MECHANICAL, FIRE PROTECTION, AND BUILDING CODES.

1.3 CONSTRUCTION PERMITS AND INSPECTIONS
A. CONTRACTOR SHALL FILE FOR AND OBTAIN ALL REQUIRED PERMITS AND LICENSES, AND PAY ALL RELATED INSPECTION AND PERMITTING FEES, AS REQUIRED FOR THE EXECUTION OF THE CONTRACT. ARRANGE FOR NECESSARY INSPECTIONS REQUIRED BY CITY, COUNTY, STATE AND OTHER AUTHORITIES HAVING JURISDICTION IN A TIMELY MANNER AND AS REQUIRED OVER THE COMPLETE COURSE OF CONSTRUCTION. DELIVER INSPECTION CERTIFICATES AND WRITTEN APPROVAL NOTICES TO THE OWNER AT CONTRACT CLOSEOUT. THOSE ITEMS AND SYSTEMS DEEMED CRITICAL OR REQUIRED TO OBTAIN A COMPLETED CERTIFICATE OF OCCUPANCY SHALL TAKE PRIORITY OVER NON-CRITICAL ITEMS.

1.4 WORKMANSHIP AND QUALIFICATIONS
A. ALL EQUIPMENT, MATERIALS, SPECIALTIES, ETC., SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE AND STANDARDS FOR THIS TYPE WORK. UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS, THE RECOMMENDATIONS AND INSTRUCTIONS OF THE MANUFACTURER SHALL BE FOLLOWED FOR INSTALLING THE WORK.

1.5 SUBMITTALS
A. PRIOR TO THE PERFORMANCE OF ANY WORK OR INSTALLATION OF ANY MATERIALS, OBTAIN APPROVAL FROM THE ARCHITECT BY SUBMITTING SHOP DRAWINGS AND DATA SHEETS.
B. SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES WILL BE ACCEPTED ONLY WHEN SUBMITTED BY THE CONTRACTOR. DATA SUBMITTED FROM SUBCONTRACTORS AND MATERIAL SUPPLIERS DIRECTLY TO THE ENGINEER OF RECORD WILL NOT BE PROCESSED.
C. ANY ITEM WITH A TAG NUMBER MUST BE SUBMITTED FOR REVIEW. SUBMITTALS SHALL PROVIDE ALL PERTINENT DATA AND INFORMATION NECESSARY TO EVALUATE EACH ITEM. IN ADDITION TO THE REQUIREMENTS OUTLINED IN THE SPECIFIC DIVISION 22 SECTIONS, ALL SUBMITTALS MUST INDICATE THE APPLICABLE SPECIFICATION SECTION NUMBER AND EQUIPMENT TAG NUMBER.
D. ARCHITECT'S REVIEW OF SHOP DRAWINGS DOES NOT RELEASE CONTRACTOR FROM RESPONSIBILITY OF COORDINATING HIS WORK AT JOBSITE AND TAKING FIELD MEASUREMENTS. IN CASES WHERE INTERFERENCES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY ARCHITECT SO THAT SUCH INTERFERENCES MAY BE RESOLVED PRIOR TO PROCEEDING WITH SHOP WORK. NO CLAIM WILL BE ALLOWED FOR WORK THAT MIGHT HAVE TO BE MOVED OR REPLACED BASED ON A CLAIM THAT WORK WAS PLACED IN ACCORDANCE WITH DIMENSIONS SHOWN ON AN APPROVED SHOP DRAWING.

1.6 CONSTRUCTION DOCUMENTS
A. THE DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT AND APPROXIMATE SIZES AND LOCATIONS OF EQUIPMENT AND MATERIALS. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN INDICATED LOCATIONS AND ARRANGEMENT, THE CONTRACTOR SHALL MAKE SUCH CHANGES AS DIRECTED BY THE ENGINEER, WITHOUT ADDITIONAL COST TO THE OWNER.
B. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS PIPE FITTINGS, ACCESS PANELS, SLEEVES, ETC. MAY NOT BE SHOWN; BUT WHERE SUCH ITEMS ARE REQUIRED BY THE NATURE OF THE WORK, THEY SHALL BE FURNISHED AND INSTALLED. ROUGH-IN DIMENSIONS AND LOCATIONS SHALL BE VERIFIED WITH THE SUPPLIER OF ALL EQUIPMENT FURNISHED BY OTHER TRADES, BY THE OWNER, PRIOR TO THE TIME OF ROUGH-IN.
C. EQUIPMENT SPECIFICATIONS MAY NOT DEAL INDIVIDUALLY WITH MINUTE ITEMS REQUIRED SUCH AS COMPONENTS, PART, CONTROLS AND DEVICES WHICH MAY BE REQUIRED TO MEET THE EQUIPMENT WARRANTIES. WHERE SUCH ITEMS ARE REQUIRED, THEY SHALL BE INCLUDED BY THE SUPPLIER OF THE EQUIPMENT, WHETHER OR NOT SPECIFICALLY CALLED FOR.
D. THE DRAWINGS AND THE SPECIFICATIONS ARE COOPERATIVE AND SUPPLEMENTARY. IT IS THE INTENT OF BOTH SAID DRAWINGS AND SPECIFICATIONS TO COVER ALL MECHANICAL REQUIREMENTS IN THEIR ENTIRETY AS NEARLY AS POSSIBLE. THE CONTRACTOR SHALL CLOSELY CHECK THE DRAWINGS AND SPECIFICATIONS FOR ANY OBVIOUS ERRORS OR OMISSIONS AND BRING ANY SUCH CONDITION TO THE ATTENTION OF THE ENGINEER PRIOR TO THE RECEIPT OF BID, IN ORDER TO PERMIT CLARIFICATION BY MEANS OF A MAILED ADDENDUM. IF THERE ARE NO QUESTIONS PRIOR TO THE BID PROPOSAL DATE, IT SHALL BE UNDERSTOOD THAT THE DRAWINGS AND SPECIFICATIONS ARE COMPLETE AND CORRECT, AND THAT THE INTENT OF SAID DOCUMENTS WILL BE COMPLIED WITH, AND THE INSTALLATION TO BE COMPLETE IN ALL RESPECTS, ACCORDING TO SAID INTENT. IF THERE IS A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN, IF NOT CLARIFIED IN WRITING BY THE ENGINEER.
E. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULL ACCESSIBLE POSITIONS. MINOR DEVIATIONS FROM THE CONTRACT DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY, BUT CHANGES OF MAGNITUDE, OR WHICH INVOLVE EXTRA COST, SHALL NOT BE MADE WITHOUT APPROVAL. AMPLE SPACE SHALL BE ALLOWED FOR REMOVAL OF ALL PARTS THAT MAY REQUIRE REPLACEMENT OR SERVICE IN THE FUTURE.

1.7 PRE-BID SITE VISIT
A. PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED OF CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

PART 2 - PRODUCTS

2.1 DESIGN BASIS
A. THE PRODUCTS/MATERIALS SPECIFICALLY NAMED IN THE SPECIFICATION AND/OR ON THE DRAWINGS ARE THE BASIS OF DESIGN. THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT PRODUCT/MATERIALS, EVEN IF FROM OTHER ACCEPTABLE MANUFACTURERS, IF IT IS FELT THEY DO NOT MEET THE INTENT OF THE SPECIFICATION.
B. THE ARCHITECT RESERVES THE SOLE RIGHT FOR THE APPROVAL OF PROPOSED MATERIAL FOR EQUIPMENT, AND THE PHRASE, APPROVED EQUIVALENT ", USED IN THESE SPECIFICATIONS, OR ON THE DRAWINGS, SHALL BE INTERPRETED TO MEAN AN EQUIVALENT APPROVED BY THE ARCHITECT.
C. ALL CHANGES REQUIRED BY ALTERNATE EQUIPMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER; AND ALL COSTS INCURRED BY OTHER TRADES, PUBLIC UTILITIES OR THE OWNER, AS A RESULT OF THE USE OF SUCH EQUIPMENT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
D. THE CONTRACTOR SHALL IDENTIFY THE DIFFERENCES IN ALTERNATE MATERIAL OR EQUIPMENT AS COMPARED TO THAT SPECIFIED, AND SHALL INDICATE THE BENEFITS TO THE PROJECT AS A RESULT OF SELECTING THE ALTERNATIVE.
E. THE ENGINEER RESERVES THE RIGHT TO REFUSE APPROVAL OF EQUIPMENT WHICH DOES NOT MEET THE SPECIFICATION, IN HIS OPINION, OR OF EQUIPMENT FOR WHICH NO LOCAL EXPERIENCE OF SATISFACTORY SERVICE IS AVAILABLE. THE ENGINEER FURTHER RESERVES THE RIGHT TO REJECT EQUIPMENT FOR WHICH MAINTENANCE SERVICE AND THE AVAILABILITY OF REPLACEMENT PARTS IS QUESTIONABLE.

PART 3 - EXECUTION

3.1 MECHANICAL INSTALLATIONS
A. GENERAL: SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF MECHANICAL SYSTEMS, MATERIALS, AND EQUIPMENT. COORDINATE MECHANICAL SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.

3.2 CUTTING AND PATCHING
A. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED MECHANICAL EQUIPMENT, COMPONENTS, AND MATERIALS AS INDICATED, INCLUDING BUT NOT LIMITED TO REMOVAL OF MECHANICAL PIPING, HEATING UNITS, PLUMBING FIXTURES AND TRIM, AND OTHER MECHANICAL ITEMS MADE OBSOLETE BY THE NEW WORK. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.
B. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED.
C. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.
D. PATCH EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS AND EXPERIENCED INSTALLERS. INSTALLERS' QUALIFICATIONS REFER TO THE MATERIALS AND METHODS REQUIRED FOR THE SURFACE AND BUILDING COMPONENTS BEING PATCHED.

3.3 PAINTING
A. FACTORY PAINTED EQUIPMENT THAT HAS BEEN SCRATCHED OR MARRED SHALL BE REPAINTED TO MATCH ORIGINAL FACTORY COLOR.
B. ALL UNINSULATED BLACK FERROUS METAL ITEMS EXPOSED TO SIGHT SUCH AS EQUIPMENT HANGERS, PIPING, FRAMES AND SUPPORTS NOT PROVIDED WITH FACTORY PRIME COAT, SHALL BE CLEANED AND PAINTED WITH ONE COAT OF RUST INHIBITING PRIMER. IN ADDITION, SUCH ITEMS IN FINISHED SPACES SHALL ALSO BE PAINTED WITH TWO COATS OF FINISH PAINT IN A COLOR TO MATCH ADJACENT SURFACES OR AS OTHERWISE SELECTED BY THE ARCHITECT.

3.4 PERFORMANCE
A. ALL EQUIPMENT AND SYSTEMS SHALL BE PROTECTED AGAINST FREEZING, FLOODING, CORROSION, AND OTHER FORMS OF DAMAGE PRIOR TO ACCEPTANCE BY THE OWNER.
B. DESIGN AND FABRICATION FEATURES OR PROVEN METHODS NOT SPECIFICALLY COVERED BY THIS SPECIFICATION SHALL BE SPECIFICALLY STATED AND DOCUMENTED IN THE PROPOSAL.
C. LABOR SHALL BE FURNISHED FOR ASSEMBLING ALL PIECES OF EQUIPMENT WHICH, DUE TO SHIPPING LIMITATIONS, HAVE COMPONENTS WHICH ARRIVE ON THE JOBSITE DISASSEMBLED.

3.5 OPERATING AND MAINTENANCE INSTRUCTIONS
A. ARRANGE FOR EACH INSTALLER OF EQUIPMENT THAT REQUIRES REGULAR MAINTENANCE TO MEET WITH THE OWNER'S PERSONNEL TO PROVIDE INSTRUCTION IN PROPER OPERATION AND MAINTENANCE. IF INSTALLERS ARE NOT EXPERIENCED IN PROCEDURES, PROVIDE INSTRUCTION BY MANUFACTURER'S REPRESENTATIVES.

3.6 FINAL INSPECTION
A. PRIOR TO FINAL ACCEPTANCE, ALL SYSTEMS SHALL BE OPERATED TO TEST PERFORMANCE TO THE SATISFACTION OF THE ENGINEER. B. DEFECTS DEMONSTRATED BY INSPECTIONS AND TESTS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT THE SUBCONTRACTOR'S EXPENSE.

3.7 CLEANING OF SYSTEMS AND PREMISES
A. BEFORE THE SYSTEMS ARE TESTED AND BALANCED, DUCTS AND EQUIPMENT SHALL BE THOROUGHLY CLEANED SO THAT NO DIRT, DUST OR OTHER FOREIGN MATTER WILL BE DEPOSITED IN OR CARRIED THROUGH THE SYSTEM.
B. AIR HANDLING UNITS SHALL NOT BE OPERATED WITHOUT FILTERS IN PLACE. ALL AIR FILTERS SHALL BE REPLACED AFTER COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCING. IF AIR-HANDLING SYSTEMS ARE USED FOR TEMPORARY HEATING OR COOLING, THE AIR FILTERS SHALL BE CHANGED A MINIMUM OF EVERY TWO WEEKS.
C. WATER AND STEAM SYSTEMS SHALL BE THOROUGHLY FLUSHED AND CLEANED OF ANY AND ALL DELETERIOUS MATERIALS BEFORE THE SYSTEMS ARE PLACED IN OPERATION.
D. ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS AT THE COMPLETION OF THE PROJECT AND PRIOR TO ACCEPTANCE BY THE OWNER.

3.8 PROTECTION
A. GUARDS, BARRICADES, LIGHTS, SERVICES, ETC., NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY SHALL BE FURNISHED AND MAINTAINED.
B. EXISTING WORK SUCH AS PAVEMENTS, LAWNS, SIDEWALKS, FLOORS, CURBS, AND OTHER STRUCTURES AND UTILITIES WHICH ARE DAMAGED OR DISTURBED DUE TO MAKING CONNECTIONS OR ANY PHASE OF OPERATIONS SHALL BE RESTORED TO THE SATISFACTION OF THE OWNER AND THE GOVERNING AUTHORITIES.

3.9 SAFETY
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE DEMOLITION AND INSTALLATION OF THIS WORK. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY, OR LOSS.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION AND PREVENTION OF UNSAFE CONDITIONS IN REGARD TO DEMOLITION, CONSTRUCTION, HAZARDOUS MATERIALS, AND EQUIPMENT USAGE. CONTRACTOR SHALL COMPLY WITH ALL OSHA, ENVIRONMENTAL PROTECTION AGENCY, AND LOCAL AUTHORITY REQUIREMENTS.
C. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITION AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATION SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES.
D. REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS FROM BUILDING SITE. TRANSPORT AND LEGALLY DISPOSE OF MATERIALS OFF SITE.
E. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.

SECTION 220510 - BASIC PLUMBING MATERIALS AND METHODS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE PIPING MATERIALS AND INSTALLATION COMMON TO MOST PLUMBING SYSTEMS, INCLUDING DIELECTRIC FITTINGS, SLEEVES, ESCUTCHEONS; AND GROUT.

1.2 QUALITY ASSURANCE
A. WELDING: WELDING PROCESSES AND OPERATORS SHALL BE CERTIFIED ACCORDING TO APPLICABLE SECTIONS OF AWS D1.1, "STRUCTURAL WELDING CODE--STEEL" AND ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX, "WELDING AND BRAZING QUALIFICATIONS."

1.3 COORDINATION
A. ARRANGE FOR PIPE SPACES, CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR MECHANICAL INSTALLATIONS.
B. COORDINATE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED.

PART 2 - PRODUCTS

2.1 JOINING MATERIALS
A. REFER TO INDIVIDUAL DIVISION 22 PIPING SECTIONS FOR SPECIAL JOINING MATERIALS NOT LISTED BELOW.
B. PIPE-FLANGE GASKET MATERIALS: SUITABLE FOR CHEMICAL AND THERMAL CONDITIONS OF PIPING SYSTEM CONTENTS. ASME B16.21, NONMETALLIC, FLAT, ASBESTOS-FREE, 1/8-INCH MAXIMUM THICKNESS UNLESS THICKNESS OR SPECIFIC MATERIAL IS INDICATED. FULL-FACE TYPE FOR FLAT-FACE, CLASS 125, CAST-IRON AND CAST-BRONZE FLANGES. NARROW-FACE TYPE FOR RAISED-FACE, CLASS 250, CAST-IRON AND STEEL FLANGES.
C. FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL, UNLESS OTHERWISE INDICATED.
D. PLASTIC, PIPE-FLANGE GASKET, BOLTS, AND NUTS: TYPE AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER, UNLESS OTHERWISE INDICATED.
E. SOLDER FILLER METALS: ASTM B 32, LEAD-FREE ALLOYS. INCLUDE WATER-FLUSHABLE FLUX ACCORDING TO ASTM B 813.
F. BRAZING FILLER METALS: AWS A5.8, BCUP SERIES, COPPER-PHOSPHORUS ALLOYS FOR GENERAL-DUTY BRAZING, UNLESS OTHERWISE INDICATED; AND AWS A5.8, BAG1, SILVER ALLOY FOR REFRIGERANT PIPING, UNLESS OTHERWISE INDICATED.
G. WELDING FILLER METALS: COMPLY WITH AWS D10.12 FOR WELDING MATERIALS APPROPRIATE FOR WALL THICKNESS AND CHEMICAL ANALYSIS OF STEEL PIPE BEING WELDED.
H. SOLVENT CEMENTS FOR JOINING PLASTIC PIPING:
1. ABS PIPING: ASTM D 2235.
2. CPVC PIPING: ASTM F 493.
3. PVC PIPING: ASTM D 2564. INCLUDE PRIMER ACCORDING TO ASTM F 656.
4. PVC TO ABS PIPING TRANSITION: ASTM D 3138.

2.2 DIELECTRIC FITTINGS
A. DESCRIPTION: COMBINATION FITTING OF COPPER ALLOY AND FERROUS MATERIALS WITH THREADED, SOLDER-JOINT, PLAIN, OR WELD-NECK END CONNECTIONS THAT MATCH PIPING SYSTEM MATERIALS. FITTING MAY BE EITHER UNION, FLANGE, COUPLING OR NIPPLE TYPE, AS APPROPRIATE.

2.3 SLEEVES
A. GALVANIZED-STEEL SHEET: 0.0239-INCH MINIMUM THICKNESS; ROUND TUBE CLOSED WITH WELDED LONGITUDINAL JOINT.
B. STEEL PIPE: ASTM A 53, TYPE E, GRADE B, SCHEDULE 40, GALVANIZED, PLAIN ENDS.
C. CAST IRON: CAST OR FABRICATED "WALL PIPE" EQUIVALENT TO DUCTILE-IRON PRESSURE PIPE, WITH PLAIN ENDS AND INTEGRAL WATERSTOP, UNLESS OTHERWISE INDICATED.

2.4 ESCUTCHEONS
A. DESCRIPTION: MANUFACTURED WALL AND CEILING ESCUTCHEONS AND FLOOR PLATES, WITH AN ID TO CLOSELY FIT AROUND PIPE, TUBE, AND INSULATION OF INSULATED PIPING AND AN OD THAT COMPLETELY COVERS OPENING.
B. SPLIT-PLATE, STAMPED-STEEL TYPE: WITH CONCEALED HINGE, SET SCREW OR SPRING CLIPS, AND CHROME-PLATED FINISH.
C. SPLIT-CASTING, FLOOR-PLATE TYPE: CAST BRASS WITH CONCEALED HINGE AND SET SCREW.

PART 3 - EXECUTION

3.2 PIPING SYSTEMS - COMMON REQUIREMENTS
A. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INDICATED LOCATIONS AND ARRANGEMENTS WERE USED TO SIZE PIPE AND CALCULATE FRICTION LOSS, EXPANSION, PUMP SIZING, AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON COORDINATION DRAWINGS.
B. INSTALL PIPING IN CONCEALED LOCATIONS, EXCEPT IN EQUIPMENT ROOMS, SERVICE AREAS, AND AS OTHERWISE INDICATED.
C. INSTALL PIPING AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE.
D. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.
E. INSTALL PIPING TO PERMIT VALVE SERVICING.
F. INSTALL PIPING AT INDICATED SLOPES PER CODE.
G. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
H. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION.
I. INSTALL ESCUTCHEONS FOR ALL PIPE PENETRATIONS, BOTH NEW AND EXISTING, THROUGH WALLS, CEILINGS, AND FLOORS.
J. INSTALL SLEEVES FOR ALL PIPES PASSING THROUGH WALLS, FLOORS AND ROOF SLABS. SLEEVES ARE NOT REQUIRED FOR CORE-DRILLED HOLES.
K. INSTALL DIELECTRIC ADAPTERS BETWEEN FERROUS AND NON-FERROUS PIPING OR EQUIPMENT CONNECTIONS.
L. FIRE-BARRIER PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS.

SECTION 220529 - HANGERS AND SUPPORTS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE HANGERS AND SUPPORTS FOR PLUMBING SYSTEM PIPING AND EQUIPMENT, INCLUDING: HORIZONTAL-PIPING HANGERS AND SUPPORTS; VERTICAL PIPING CLAMPS; HANGER ROD ATTACHMENTS; BUILDING ATTACHMENTS; SADDLES AND SHIELDS; MISCELLANEOUS MATERIALS; AND EQUIPMENT SUPPORTS.

1.2 QUALITY ASSURANCE
A. WELDING: WELDING PROCESSES AND OPERATORS SHALL BE CERTIFIED IN ACCORDANCE WITH APPLICABLE SECTION OF AWS D1.1 AND ASME BOILER AND PRESSURE VESSEL CODE.
B. ENGINEERING RESPONSIBILITY: CALCULATIONS FOR EACH MULTIPLE PIPE SUPPORT, TRAPEZE HANGER, AND SEISMIC RESTRAINT SHALL BE PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PIPE HANGERS AND RELATED DEVICES SHALL BE AS MANUFACTURED BY GRINNELL, OR APPROVED EQUIVALENT, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

2.2 MANUFACTURED UNITS
A. UNLESS SPECIFICALLY NOTED DIFFERENTLY ON THE DRAWINGS, PIPING SHALL BE SUPPORTED WITH GALVANIZED STEEL CLEVIS HANGERS WITH GALVANIZED HANGER RODS AND TYPE 28, 29, OR 30 BEAM CLAMP.
B. PROVIDE MSS TYPE 39 THERMAL HANGER SADDLE INSERTS FOR HOT PIPING AND MSS TYPE 40 THERMAL HANGER SHIELDS FOR COLD PIPING.

PART 3 - EXECUTION

3.1 INSTALLATION OF HANGERS AND SUPPORTS
A. INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS TO SUPPORT PIPING PROPERLY FROM BUILDING STRUCTURE. COMPLY WITH THE REQUIREMENTS OF MSS SP-69 AND SP-89, APPLICABLE CODES, LIMITATIONS OF THE BUILDING STRUCTURAL ELEMENTS, AND STANDARD INDUSTRY PRACTICES. INSTALL HANGERS AND SUPPORTS COMPLETE WITH NECESSARY INSERTS, BOLTS, RODS, NUTS, WASHERS, AND OTHER ACCESSORIES.
B. PROVIDE SEISMIC BRACING IN CONFORMANCE WITH SPECIFIED SEISMIC DESIGN CRITERIA.
C. BUILDING ATTACHMENTS: INSTALL BUILDING ATTACHMENTS WITHIN CONCRETE OR TO STRUCTURAL STEEL; SPACE ATTACHMENTS WITHIN MAXIMUM PIPING SPAN LENGTH INDICATED IN MSS SP-69; INSTALL ADDITIONAL ATTACHMENTS AT CONCENTRATED LOADS, INCLUDING VALVES, FLANGES, GUIDES, STRAINERS, EXPANSION JOINTS, AND AT CHANGES IN DIRECTION OF PIPING; AT BAR-JOISTS, ATTACH TO THE TOP CORD OF THE JOIST, OR ATTACH TO THE BOTTOM CORD AT PANEL POINTS.
D. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS AND SIMILAR UNITS.
E. SUPPORT VERTICAL PIPE AND DUCT RISERS AT EVERY FLOOR.

3.2 EQUIPMENT BASES AND SUPPORTS
A. FABRICATE STRUCTURAL STEEL STANDS TO SUSPEND EQUIPMENT FROM STRUCTURE ABOVE OR SUPPORT EQUIPMENT FROM FLOOR.

3.3 ADJUSTING AND CLEANING
A. HANGER ADJUSTMENT: ADJUST HANGERS TO DISTRIBUTE LOADS EQUALLY ON ATTACHMENTS AND TO ACHIEVE INDICATED SLOPE OF PIPE.
B. TOUCH-UP PAINTING: IMMEDIATELY AFTER ERECTION OF ANCHORS AND SUPPORTS, CLEAN FIELD WELDS AND ABRADED AREAS OF SHOP PAINT AND PAINT EXPOSED AREAS WITH SAME MATERIAL AS USED FOR SHOP PAINTING TO COMPLY WITH SSPC-PA-1 REQUIREMENTS FOR TOUCH-UP OF FIELD-PAINTED SURFACES.
C. FOR GALVANIZED SURFACES: CLEAN WELDS, BOLTED CONNECTIONS, ABRADED AREAS AND APPLY GALVANIZING REPAIR PAINT TO COMPLY WITH ASTM A 780.

SECTION 220553 - PLUMBING IDENTIFICATION

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE IDENTIFICATION DEVICES SPECIFIED IN THIS SECTION INCLUDING PLASTIC PIPE MARKERS, PLASTIC TAPE, ENGRAVED PLASTIC-LAMINATE SIGNS, AND VALVE TAGS.
B. CODES AND STANDARDS: COMPLY WITH ANSI A13.1 FOR LETTERING SIZE, LENGTH OF COLOR FIELD, COLORS, AND VIEWING ANGLES OF IDENTIFICATION DEVICES.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE MECHANICAL IDENTIFICATION MATERIALS AS MANUFACTURED BY ALLEN SYSTEMS, INC., BRADY (W.H.) CO.; SIGNMARK DIV., SETON NAME PLATE CORP., OR APPROVED EQUIVALENT.

2.2 PLUMBING IDENTIFICATION MATERIALS
A. GENERAL: PROVIDE MANUFACTURER'S STANDARD PRODUCTS OF CATEGORIES AND TYPES REQUIRED FOR EACH APPLICATION AS REFERENCED IN OTHER DIVISION 22 SECTIONS. WHERE MORE THAN SINGLE TYPE IS SPECIFIED FOR APPLICATION, SELECTION IS INSTALLER'S OPTION, BUT PROVIDE SINGLE SELECTION FOR EACH PRODUCT CATEGORY.

PART 3 - EXECUTION

3.1 PIPING SYSTEM IDENTIFICATION
A. GENERAL: INSTALL PIPE MARKERS ON EACH SYSTEM INDICATED TO RECEIVE IDENTIFICATION, AND INCLUDE ARROWS TO SHOW NORMAL DIRECTION OF FLOW. INSTALL ON PIPE INSULATION SEGMENT WHERE REQUIRED FOR HOT NON-INSULATED PIPES.
B. LOCATE PIPE MARKERS AND COLOR BANDS AS FOLLOWS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, MACHINE ROOMS, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS.
1. NEAR EACH VALVE AND CONTROL DEVICE.
2. NEAR EACH BRANCH, EXCLUDING SHORT TAKE-OFFS FOR FIXTURES AND TERMINAL UNITS; MARK EACH PIPE AT BRANCH, WHERE THERE COULD BE QUESTION OF FLOW PATTERN.
3. NEAR LOCATIONS WHERE PIPES PASS THROUGH WALLS OR FLOORS/CEILINGS, OR ENTER NON-ACCESSIBLE ENCLOSURES.
4. AT ACCESS DOORS, MANHOLES AND SIMILAR ACCESS POINTS WHICH PERMIT VIEW OF CONCEALED PIPING.
5. NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGINATION AND TERMINATION.
6. SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 50' ALONG EACH PIPING RUN, EXCEPT REDUCE SPACING TO 25' IN CONGESTED AREAS OF PIPING AND EQUIPMENT.
7. ON PIPING ABOVE REMOVABLE ACOUSTICAL CEILINGS, EXCEPT OMIT INTERMEDIATELY SPACED MARKERS.

3.2 PLUMBING EQUIPMENT IDENTIFICATION
A. GENERAL: INSTALL ENGRAVED PLASTIC LAMINATE SIGN OR PLASTIC EQUIPMENT MARKER ON OR NEAR EACH MAJOR ITEM OF MECHANICAL EQUIPMENT AND EACH OPERATIONAL DEVICE, AS SPECIFIED HEREIN IF NOT OTHERWISE SPECIFIED FOR EACH ITEM OR DEVICE.
B. LETTERING SIZE: MINIMUM 1/4" HIGH

SECTION 221116 - DOMESTIC WATER PIPING

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL COVER THE INSTALLATION OF DOMESTIC WATER PIPING AND RELATED APPURTENANCES SUCH AS WATER

1.2 QUALITY ASSURANCE
A. STANDARDS: PRODUCTS AND INSTALLATION SHALL CONFORM TO APPLICABLE PORTIONS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), FEDERAL SPECIFICATIONS (FED. SPEC.), PLUMBING AND DRAINAGE INSTITUTE (PDI), AND LOCAL CODES.

PART 2 - PRODUCTS

2.1 PIPING AND FITTINGS
A. UNDERGROUND WATER SERVICE PIPING (4 " AND LARGER) SHALL BE: CLASS 50 DUCTILE IRON PIPE, AWW C151, WITH HUB AND SPIGOT, PUSH ON JOINTS, AWWA C11, AND CLASS 50 OR GREATER MECHANICAL JOINT DUCTILE IRON FITTINGS, AWWA C110, ALL CEMENT LINED PER AWWA C104.
B. UNDERGROUND WATER SERVICE PIPING (2-1/2 " AND SMALLER) FROM 5'-0 " OUTSIDE OF BUILDING TO 1'-0 " ABOVE FINISHED FLOOR SHALL BE: TYPE " K " SOFT COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS.
C. ABOVE GROUND WATER PIPING SHALL BE: TYPE " L " HARD DRAWN COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS.
D. UNDERGROUND WATER PIPING TO TRAP PRIMER LINES SHALL BE: TYPE " L " SOFT DRAWN COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND SOCKET FITTINGS (NO FITTINGS BELOW FLOOR).

2.2 WATER HAMMER ARRESTORS
A. WATER HAMMER ARRESTORS SHALL HAVE A STAINLESS STEEL CASING, FLEXIBLE MECHANICAL BELLOWS, PRESSURIZED INERT GAS CHAMBER, AND CERTIFICATION STAMP AS CONFORMING TO PDI WH-201.

2.3 BACKFLOW PREVENTER
A. BACKFLOW PREVENTER SHALL BE THE SAME SIZE AS THE PIPE ON WHICH IT IS INSTALLED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
B. BACKFLOW PREVENTER SHALL BE THE REDUCED PRESSURE ZONE TYPE WITH INTERMEDIATE ATMOSPHERIC VENT, CONSISTING OF SHUTOFF VALVES ON THE INLET AND OUTLET AND STRAINER ON THE INLET. ASSEMBLIES SHALL INCLUDE TEST COCKS AND SHALL COMPLY WITH THE REQUIREMENTS OF ASSE STANDARD 1013. BACKFLOW PREVENTER 3 " AND SMALLER SHALL HAVE BRONZE BODY WITH THREADED ENDS.

2.4 TRAP PRIMERS
A. MECHANICAL TRAP PRIMERS SHALL BE AUTOMATIC TYPE WITH CAST BRONZE BODY, REMOVABLE VALVE MECHANISM, INTEGRAL VACUUM BREAKER, AND ½ " DIAMETER SOCKET TUBE ENDS.

PART 3. - EXECUTION

3.1 INSTALLATION
A. PROVIDE A UNION OR FLANGE AT ALL PIPING CONNECTIONS TO EQUIPMENT. PIPE CONNECTIONS TO EQUIPMENT SHALL BE MADE SO THAT NO STRAIN IS PLACED ON THE EQUIPMENT. PIPE SHALL BE SUPPORTED INDEPENDENT OF THE EQUIPMENT.
B. CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS. NO BUSHINGS WILL BE ALLOWED.
C. INSTALL WATER HAMMER ARRESTORS WITHIN THE CHASE ON THE COLD-WATER BRANCH LINES AS INDICATED ON THE DRAWINGS. ALL WATER HAMMER ARRESTORS SHALL HAVE A WALL ACCESS PANEL ADJACENT TO THE SHOCK ABSORBER FOR REPAIR PURPOSES.
D. THE ATMOSPHERIC RELIEF FROM BACKFLOW PREVENTER SHALL BE PIPED THROUGH A FIXED AIR GAP TO A FLOOR DRAIN.
E. UNDERGROUND PIPING FROM TRAP PRIMER TO FLOOR DRAINS SHALL BE INSTALLED WITHOUT FITTINGS.
F. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FITTING OF MATERIALS AND EQUIPMENT, SHALL PERFORM ALL DIMENSIONAL LAYOUT OF THE WORK AND SHALL ESTABLISH LINES AND GRADES. INSTALL PIPE LINES TO CONFORM TO CONDITIONS, OFF-SETTING TO CLEAR STRUCTURAL MEMBERS AND DUCTS. RUN PIPING PARALLEL TO OR AT RIGHT ANGLES TO BUILDING WALLS WITH EACH HORIZONTAL LINE AT MAXIMUM.
G. PIPE FOUND TO BE DAMAGED BY HANDLING SHALL BE REMOVED FROM THE JOB SITE TO PREVENT MISTAKEN USE.

3.2 HANGERS AND SUPPORTS
A. INSTALL HANGERS FOR HORIZONTAL PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:

NOM. PIPE SIZE	STEEL PIPE MAX SPAN	COPPER TUBE MAX SPAN	MIN. ROD DIAMETER
UP TO 3/4"	7'	5'	3/8"
1"	7'	6'	3/8"
1-1/4"	7'	7'	3/8"
1-1/2"	9'	8'	3/8"
2"	10'	8'	3/8"
2-1/2"	11'	9'	1/2"
3"	12'	10'	1/2"
4"	14'	12'	5/8" (1/2" COPPER)

3.3 INSTALLATION OF PIPING SPECIALTIES
A. INSTALL BACKFLOW PREVENTER AT EACH CONNECTION TO MECHANICAL EQUIPMENT AND SYSTEMS IN COMPLIANCE WITH THE PLUMBING CODE AND AUTHORITY HAVING JURISDICTION. LOCATE IN SAME ROOM AS EQUIPMENT BEING CONNECTED. INSTALL AIR GAP FITTING AND PIPE RELIEF OUTLET DRAIN WITHOUT VALVES TO NEAREST FLOOR DRAIN.
B. INSTALL PRESSURE-REGULATING VALVES WITH INLET AND OUTLET SHUTOFF VALVES AND BALANCE COCK BYPASS. INSTALL PRESSURE GAUGE ON VALVE OUTLET.

3.4 ADJUSTING
A. ADJUST AND BALANCE ALL WATER SYSTEMS TO OBTAIN OPERATING FLOWS AT ALL FIXTURES AND WATER USING EQUIPMENT. ALSO ADJUST AND BALANCE THE HOT WATER CIRCULATION FROM ALL PORTIONS OF THE BUILDING.

3.5 FIELD QUALITY CONTROL
A. INSPECTIONS: ARRANGE FOR INSPECTION BY THE PLUMBING OFFICIAL TO OBSERVE THE REQUIRED TESTS AND TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THE PLUMBING CODE. PREPARE INSPECTION REPORTS SIGNED BY THE PLUMBING OFFICIAL.
B. FILL AND STERILIZE THE SYSTEM AS REQUIRED BY THE LOCAL WATER UTILITY AND THE LOCAL CODE AUTHORITIES.

SECTION 221316 - DRAINAGE AND VENT SYSTEMS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL COVER THE INSTALLATION OF DRAINAGE AND VENT SYSTEMS INCLUDING PIPING, DRAINAGE ACCESSORIES, TRAPS, AND FLOOR DRAINS.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE DRAINAGE AND VENT SYSTEM PRODUCTS BY ONE OF THE MANUFACTURERS LISTED IN THIS SPECIFICATION OR ON THE DRAWING.

2.2 PIPE AND FITTINGS
A. ABOVE GROUND SANITARY WASTE AND VENT PIPING (2-1/2 " AND LARGER) SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, ASTM A74, WITH NO-HUB NEOPRENE COUPLINGS CONFORMING TO CISPI STANDARD 310.
B. ALL WASTE PIPING 2 " AND SMALLER SHALL BE TYPE " DWV " HARD DRAWN COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS.
C. BELOW GROUND SANITARY WASTE AND VENT PIPING (ALL SIZES) SHALL BE ONE OF THE FOLLOWING:
1. SERVICE WEIGHT, COATED, CAST IRON SOIL PIPE AND FITTINGS, ASTM A74, WITH GASKETED MODIFIED HUB AND SPIGOT JOINTS, ASTM C564.
2. SOLID WALL PVC PIPE, ASTM D 2665, WITH PVC SOCKET TYPE FITTINGS. USE PVC SOLVENT CEMENT THAT HAS A VOC CONTENT OF 510 G/L OR LESS AND ADHESIVE PRIMER THAT HAS A VOC CONTENT OF 510 G/L OR LESS.
D. PVC PIPE AND FITTINGS MAY BE USED ABOVE GROUND IN BUILDINGS WITH NON-PLENUM RETURN IF APPROVED BY THE LOCAL AHJ.

2.3 TRAPS
A. TRAPS OTHER THAN FURNISHED AS PART OF PLUMBING FIXTURE, SHALL BE OF THE SAME MATERIAL AND SIZE AS THE PIPE INTO WHICH THEY DISCHARGE, UNLESS SPECIFIED OTHERWISE HEREINAFTER. WHERE NOT UNDERGROUND, TRAPS SHALL BE PROVIDED WITH CLEANOUTS PLUGS ON BOTTOM.

2.4 FLOOR DRAINS
A. CAST IRON BODY WITH FLASHING FLANGE AND DEEP SEAL SIZED P-TRAP. DRAINS SHALL BE EQUIPPED WITH ADJUSTABLE STRAINER AS FOLLOWS; 6 " ROUND ROUGH BRONZE IN MECHANICAL ROOMS; 6 " SQUARE POLISHED BRONZE IN FINISHED FLOORS; 8 " ROUND WITH FUNNEL TOP FOR CONDENSATE DRAINAGE.

PART 3 - EXECUTION

3.1 INSTALLATION
A. MAKE CHANGES IN DIRECTION FOR DRAINAGE AND VENT PIPING USING APPROPRIATE 45 DEGREE WYES, HALF-WYES, OR LONG SWEEP QUARTER, SIXTH, EIGHTH, OR SIXTEENTH BENDS. INSTALL UNDERGROUND BUILDING DRAINS TO CONFORM WITH THE PLUMBING CODE, AND IN ACCORDANCE WITH THE CAST IRON SOIL PIPE INSTITUTE ENGINEERING MANUAL.
B. INSTALL CLEANOUTS IN ABOVE AND BELOW GROUND PIPING AND BUILDING DRAIN PIPING AS INDICATED, AND AS REQUIRED BY PLUMBING CODE, AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEGREES; AT MINIMUM INTERVALS OF 50' FOR PIPING 4" AND SMALLER AND 100' FOR LARGER PIPING; AT BASE OF EACH VERTICAL SOIL OR WASTE STACK. INSTALL FLOOR AND WALL CLEANOUTS COVERS FOR CONCEALED PIPING, TYPES AS INDICATED.
C. INSTALL HANGERS FOR ABOVE GROUND PIPE AT THE FOLLOWING INTERVALS:

PIPE MATERIAL	MAX HORIZONTAL SPACING	MAX VERTICAL SPACING
CAST IRON PIPE - ALL SIZES	5'	15'
COPPER TUBING 1-1/4" & SMALLER	6'	10'
COPPER TUBING 1-1/2" & LARGER	10'	10'
PVC - ALL SIZES	5'	10'

3.2 FIELD QUALITY CONTROL
A. TEST DRAINAGE AND VENT SYSTEM IN ACCORDANCE WITH THE PROCEDURES OF THE AUTHORITY HAVING JURISDICTION.

SECTION 223300 - WATER HEATERS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS PROJECT SHALL INCLUDE ELECTRIC DOMESTIC WATER HEATERS AS INDICATED ON DRAWINGS AND SCHEDULES, AND BY REQUIREMENTS OF THIS SECTION.

1.2 QUALITY ASSURANCE
A. CODES AND STANDARDS: CONSTRUCT WATER HEATERS IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF UL, NEC, AND ASHRAE STANDARDS.

PART 2 - PRODUCTS

2.1 COMMERCIAL ELECTRIC WATER HEATERS
A. GENERAL: PROVIDE COMMERCIAL ELECTRIC WATER HEATERS OF SIZES, CAPACITIES, AND ELECTRICAL CHARACTERISTICS AS INDICATED ON DRAWINGS.
B. HEATER: WORKING PRESSURE OF 150 PSI; GLASS LINING ON INTERNAL SURFACES EXPOSED TO WATER.
C. HEATING ELEMENTS: HEAVY-DUTY, MEDIUM WATT DENSITY, WITH INCOLOY SHEATH, THERMOSTAT STEPPED THROUGH MAGNETIC CONTACTORS.
D. SAFETY CONTROLS: DOUBLE POLE, MANUAL RESET, HIGH LIMIT; PROBE TYPE ELECTRIC LOW WATER CUTOFF; BOTH FACTORY WIRED.
E. JACKET: EQUIP WITH FULL SIZE CONTROL COMPARTMENTS WITH FRONT PANEL OPENING. INSULATE TANK WITH VERMIN-PROOF GLASS FIBER INSULATION. PROVIDE OUTER STEEL JACKET WITH BONDERIZED UNDERCOAT AND BAKED ENAMEL FINISH.
F. ACCESSORIES: PROVIDE BRASS DRAIN VALVE; 3/4" TEMPERATURE AND PRESSURE RELIEF VALVE; ASME TANK CONSTRUCTION FOR 125 PSI WORKING PRESSURE; AND 4" X 6" HAND HOLE CLEANOUTS.
G. CONTROLS: ADJUSTABLE IMMERSION THERMOSTAT.
H. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE COMMERCIAL ELECTRIC WATER HEATERS AS MANUFACTURED BY RHEEM WATER HEATER DIV, RUUD WATER HEATER DIV, SMITH CORP (A.O.), STATE INDUSTRIES, INC., OR APPROVED EQUIVALENT.

PART 3 - EXECUTION

3.1 INSTALLATION OF WATER HEATERS
A. INSTALL WATER HEATERS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS INDICATED, AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
B. CONNECT HOT AND COLD WATER PIPING TO UNITS WITH SHUTOFF VALVES AND UNIONS. EXTEND RELIEF VALVE DISCHARGE TO CLOSEST FLOOR DRAIN, OR AS INDICATED.
C. PROVIDE THERMOMETERS ON INLET AND OUTLET PIPING OF TANK-TYPE WATER HEATERS.

SECTION 224000 - PLUMBING FIXTURES

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. THIS SECTION INCLUDES PLUMBING FIXTURES AND TRIM, FITTINGS, AND ACCESSORIES; APPLIANCES, APPURTENANCES, EQUIPMENT, AND SUPPORTS ASSOCIATED WITH PLUMBING FIXTURES.

1.2 QUALITY ASSURANCE
A. REGULATORY REQUIREMENTS: COMPLY WITH REQUIREMENTS OFANSI STANDARD A117.1, "BUILDINGS AND FACILITIES -- PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE," AND PUBLIC LAW 90-480, "ARCHITECTURAL BARRIERS ACT," WITH RESPECT TO PLUMBING FIXTURES FOR THE PHYSICALLY HANDICAPPED.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE PRODUCTS AS SCHEDULED, OR APPROVED EQUIVALENT.
B. CROSS REFERENCE OTHER DISCIPLINES FOR ACCURACY AND NOTIFY ENGINEER OF RECORD IS DIFFERENT.

2.2 GENERAL REQUIREMENTS
POTABLE WATER SYSTEMS: PROVIDE PLUMBING FITTINGS AND FAUCETS THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT; LABEL PIPE AND FITTINGS.

2.3 REGULATORY REQUIREMENTS
A. COMPLY WITH APPLICABLE CODES FOR INSTALLATION OF PLUMBING SYSTEMS.
B. COMPLY WITH UL REQUIREMENTS.
C. PERFORM WORK IN ACCORDANCE WITH LOCAL HEALTH DEPARTMENT REGULATIONS.
D. PROVIDE CERTIFICATE OF COMPLIANCE FROM AUTHORITY HAVING JURISDICTION INDICATING APPROVAL OF INSTALLATION.

2.4 UNDER-LAVATORY PIPE SUPPLY COVERS
A. GENERAL:
1. INSULATE EXPOSED DRAINAGE PIPING INCLUDING HOT, COLD AND TEMPERED WATER SUPPLIES UNDER LAVATORIES OR SINKS PER ADA STANDARDS.
2. CONSTRUCTION: 1/8 INCH (3.2 MM) PVC WITH ANTIMICROBIAL, ANTIFUNGAL AND UV RESISTANT PROPERTIES.
A. COMPLY WITH ASME A112.18.9 FOR COVERS ON ACCESSIBLE LAVATORY PIPING.
B. COMPLY WITH ICC A117.1.

PART 3 - EXECUTION

3.1 EXAMINATION
A. EXAMINE ROUGHING-IN FOR WATER SOIL AND FOR WASTE PIPING SYSTEMS AND SUPPORTS TO VERIFY ACTUAL LOCATIONS AND SIZES OF PIPING CONNECTIONS AND THAT LOCATIONS AND TYPES OF SUPPORTS MATCH THOSE INDICATED, BEFORE PLUMBING FIXTURE INSTALLATION. USE MANUFACTURER'S ROUGHING-IN DATA IF ROUGHING-IN DATA ARE NOT INDICATED
B. EXAMINE WALLS, FLOORS, AND CABINETS FOR SUITABLE CONDITIONS WHERE FIXTURES ARE TO BE INSTALLED.
C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 INSTALLATION
A. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICING AND CLEANING.
B. INSTALL COMPONENTS LEVEL AND PLUMB.

3.3 INTERFACE WITH WORK OF OTHER SECTIONS
A. REVIEW MILLWORK SHOP DRAWINGS. CONFIRM LOCATION AND SIZE OF FIXTURES AND OPENINGS BEFORE ROUGH-IN AND INSTALLATION.

3.4 CLEANING
A. CLEAN PLUMBING FIXTURES AND EQUIPMENT.

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sg
sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

THESE DRAWINGS & SPECIFICATIONS ARE CONFIDENTIAL AND SHALL REMAIN THE SOLE PROPERTY OF SWEETGREEN CORPORATION. THEY SHALL NOT BE REPRODUCED (IN WHOLE OR IN PART), SHARED WITH THIRD PARTIES OR USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF SWEETGREEN CORPORATION. THESE DRAWINGS & SPECIFICATIONS ARE INTENDED TO EXPRESS DESIGN INTENT FOR A PROTOTYPICAL SWEETGREEN STORE (WHICH IS SUBJECT TO CHANGE AT ANY TIME) AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. NEITHER PARTY SHALL HAVE ANY OBLIGATION NOR LIABILITY TO THE OTHER (EXCEPT AS STATED ABOVE) UNTIL A WRITTEN AGREEMENT IS FULLY EXECUTED.

ENGINEER OF RECORD:
WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:
NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER MICHAEL WOLF
COA: P – 2368
05/29/2025

PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
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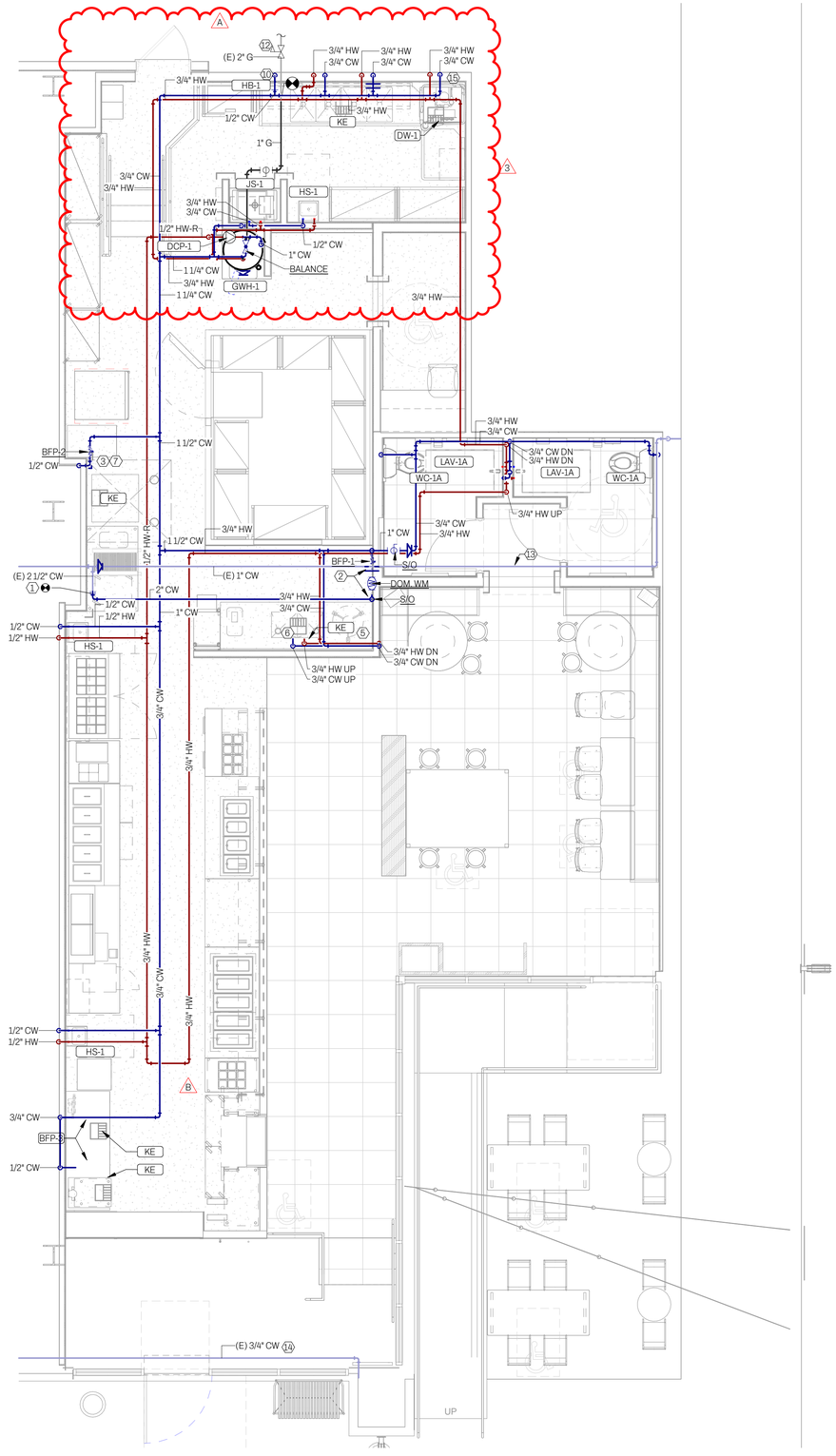
DRAWN BY:	TAL
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT

PLUMBING SPECIFICATIONS

P-011



1 P-100 PLUMBING - OVERALL FLOOR PLAN - DOMESTIC WATER & GAS

1/4" = 1'-0"

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GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE GENERAL AND MECHANICAL CONTRACTOR TO FULLY INSPECT THE SITE PRIOR TO COMMENCEMENT.

B. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, BAR JOISTS, COLUMNS, POST TENSION TENDONS, ETC. AND COORDINATE ALL PIPES, SLEEVES, PLUMBING FIXTURES, ETC. LOCATIONS PRIOR TO CONSTRUCTION.

C. PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE. WATTS LFUSG-B, ON WATER SUPPLY TO LAVATORIES AND HAND SINK. 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 MAXIMUM DISCHARGE TEMPERATURE OF 110°F.

KEY NOTES

1. TIE NEW 2" DOMESTIC WATER PIPING INTO EXISTING BUILDING WATER SUPPLY PIPING ABOVE CEILING. VERIFY EXACT SIZE AND LOCATION PRIOR TO INSTALLATION.

A 2. REDUCE TENANT WATER SIZE SIZE FROM 2" TO 1-1/2" WHERE PIPE DROPS VERTICALLY. DROP VERTICALLY AND ROUTE ALONG WALL WITH STANDOFFS. PROVIDE ACCESSIBLE MANUAL SHUT OFF VALVE, DIGITAL REMOTE READ SUB-METER, PRESSURE REDUCING VALVE (SET TO A MAX PRESSURE OF 75 PSI), AND REDUCED PRESSURE ZONE BACKFLOW PREVENTER. ACCESSIBLE TENANT SHUT OFF SHALL BE ACCESSIBLE WITHOUT THE USE OF LADDER OR TOOL PER CODE. ALL PLUMBING ACCESSORIES, FITTINGS, AND VALVES, ON THESE VERTICAL AND HORIZONTAL PIPES SHALL BE LOCATED A MAXIMUM OF 5'-0" AFF FOR ACCESSIBILITY. REDUCED PRESSURE ZONE ASSEMBLY RELIEF PORT PIPING SHALL DISCHARGE TO TRENCH DRAIN BELOW WITH GAP. LOCATION OF PLUMBING ACCESSORIES, FITTINGS, AND DROPS SHALL NOT INTERFERE WITH SWEETGREEN KITCHEN EQUIPMENT. EXACT LOCATION AND CONFIGURATION SHALL BE COORDINATED ON SITE.

3. PROVIDE ACCESSIBLE BACKFLOW PREVENTER EQUAL ZURN 975XL IN PIPING AS INDICATED. ROUTE AIR GAP FITTING DRAIN PIPING TO ADJACENT HUB DRAIN CONNECTED TO SANITARY. MOUNT BACKFLOW DEVICES ON WALL AT MAXIMUM OF 60" AFF.

4. CW/HW PIPING DOWN IN WALL TO SERVE LINE COUNTER TO APPROXIMATELY 18" ABOVE FLOOR, PROVIDE INLINE ACCESSIBLE SHUT OFF VALVE AND CAP PIPING FOR FINAL CONNECTION TO SERVE LINE FIXTURES.

5. CW/HW PIPING DOWN IN PARTITION TO BELOW COLD PREP TABLE. OFFSET HORIZONTALLY BELOW TABLE WITH STANDOFFS/PIPE SUPPORTS AND ROUTE TO SINK AS INDICATED.

6. ROUTE BELOW TABLE WATER PIPING UP TO SINK AND PROVIDE SHUT OFF VALVES AND STANDOFFS/SUPPORT. COORDINATE EXACT LOCATION OF EQUIPMENT PRIOR TO INSTALLATION.

7. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE STACKED COMBINATION OVENS. THE GENERAL CONTRACTOR SHALL INSTALL THE FILTER ASSEMBLIES FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER. ALL VALVING AND BYPASSES AND PROVIDE 3/4" BRAIDED STAINLESS STEEL HOSEFROM THE FILTER ASSEMBLY AND MAKE THE FINAL CONNECTION TO THE COMBINATION OVEN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE ALL ADDITIONAL REQUIREMENTS WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO BID.

8. PROVIDE DOMESTIC WATER ROUGH-IN FOR THE WATER DISPENSER AT 24" AFF IN LOCATION SHOWN. THE GENERAL CONTRACTOR SHALL PROVIDE 1/2" BRAIDED STAINLESS STEEL HOSE FROM THE BACKFLOW PREVENTER TO THE FILTER ASSEMBLY AND INSTALL THE FILTER ASSEMBLY FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER CONCEALED UNDER THE BEVERAGE COUNTER. SWEETGREEN'S VENDOR SHALL MAKE THE FINAL CONNECTION TO WATER CHILLER AND DISPENSER. COORDINATE ALL ADDITIONAL REQUIREMENTS WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO BID.

9. PROVIDE A BALANCE VALVE IN LOCATION SHOWN. ADJUST THE SETTING SO EQUAL FLOW IS OBTAINED FROM EACH BRANCH OF THE RECIRCULATION LINE.

10. PROVIDE HOSE-BIBB MOUNTED TO THE WALL AT AN ELEVATION OF 3'-10" A.F.F. COORDINATE EXACT PLACEMENT WITH SWEETGREEN'S CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

11. CW PIPING DOWN WITHIN PARTITION TO BELOW SLAB. OFFSET HORIZONTALLY BELOW SLAB AND ROUTE TO ISLAND KITCHEN EQUIPMENT (KE) AS INDICATED, PROVIDE TWO TAPS WITH DEDICATED SHUT OFF VALVES ABOVE SLAB AT (KE). NO JOINTS ALLOWED BELOW SLAB.

A 12. LOCATE EXISTING 2" NATURAL GAS PIPING ROUTED FROM METER (BY OWNER) TO TENANT'S SPACE AT UNDERSIDE OF ROOF STRUCTURE. PROVIDE GAS REGULATOR ON GAS LINE TO REDUCE TO LOW PRESSURE PRIOR TO ENTERING TENANT SPACE. PROVIDE SHUTOFFS ON UPSTREAM AND DOWNSTREAM SIDES OF REGULATOR. ROUTE NEW 1" NATURAL GAS PIPING TO SERVE WATER HEATER. FIELD COORDINATE ROUTING AS REQUIRED. SEE SHEET P-400 FOR ADDITIONAL INFORMATION.

13. FIELD COORDINATION LOCATION OF LANDLORD WATER LINE. RELOCATE BEHIND FULL HEIGHT WALL, OUT OF SIGHT, IF WITHIN SEATING AREA.

14. FIELD MODIFY LANDLORD CW LINE ROUTING FOR EXTERIOR BUILDING HOSE BIBB. EXISTING CW LINE IS BELOW TOP OF STOREFRONT. NEW CW LINE SHALL BE TIGHT TO STRUCTURE ACROSS STOREFRONT. TRANSITIONS SHALL OCCUR BEHIND COLUMNS. COORDINATE WITH OWNER/ARCHITECT PRIOR TO MODIFYING.

15. ROUTE 1/2" CW STUB OUT FOR DISHMACHINE CONNECTION AT 5'-0" AFF. ROUTE 1/2" HW STUB OUT FOR DISHMACHINE CONNECTION AT 2'-0" AFF.

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COA:P – 2368

05/29/2025

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PLAZA MIDWOOD

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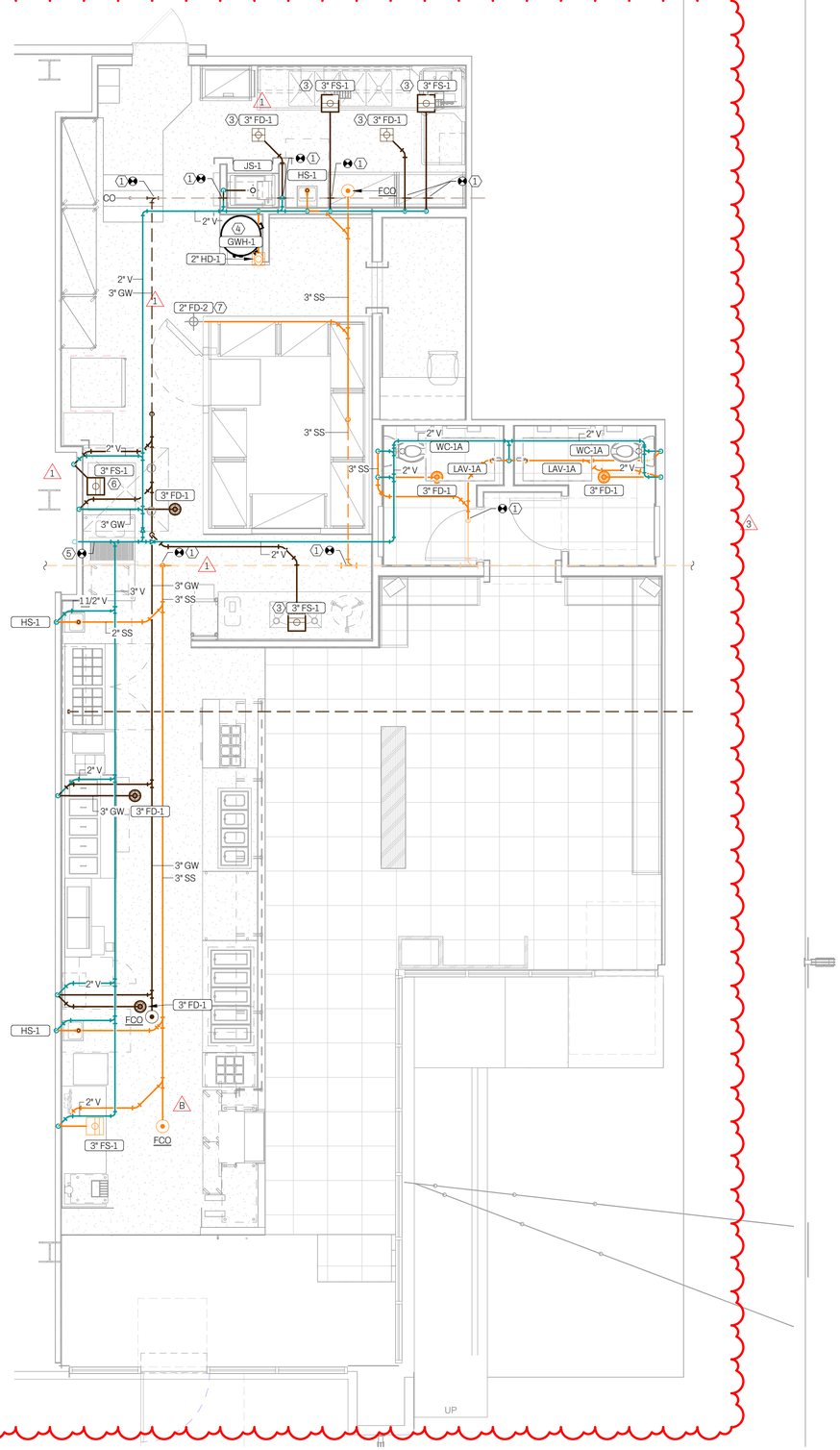
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
B	04/11/2025	ADDENDUM B
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT

PLUMBING WATER & GAS PLAN

A **P-100**



1 P-200 PLUMBING - OVERALL FLOOR PLAN - DWV
1/4" = 1'-0"

GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE GENERAL AND PLUMBING CONTRACTOR TO FULLY INSPECT THE SITE PRIOR TO COMMENCEMENT.

B. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, BAR JOISTS, COLUMNS, POST TENSION TENDONS, ETC. AND COORDINATE ALL PIPES, SLEEVES, PLUMBING FIXTURES, ETC. LOCATIONS PRIOR TO CONSTRUCTION.

C. ROUTE CONDENSATE PIPING FROM HVAC AND WALK IN TO JANITOR SINK. PROVIDE CONDENSATE PUMP AS NECESSARY.

KEY NOTES

1. CONNECT NEW SANITARY SEWER PIPING INTO EXISTING 4"-6" SANITARY SEWER PIPING. FIELD VERIFY EXACT LOCATION AND INVERT.
2. CONNECT NEW 4" GREASE WASTE PIPING INTO EXISTING 4" GREASE WASTE PIPING. FIELD VERIFY EXACT LOCATION AND INVERT. NOTE: GREASE INTERCEPTOR ON SITE AND ASSOCIATED GREASE INTERCEPTOR PIPING ON SITE IS PROVIDED BY LANDLORD. SPECIFIED GREASE TRAP ON LANDLORD PLUMBING DRAWINGS: SCHIER GB-500 GREASE TRAP.
3. COORDINATE EXACT FLOOR SINK/DRAIN LOCATION WITH FINAL EQUIPMENT LAYOUTS AND STRUCTURAL FLOOR MEMBERS.
4. ROUTE T&P AND DRAIN FROM TANK TYPE WATER HEATER TO ADJACENT HUB DRAIN.
5. ROUTE NEW VENT PIPING OUT OF TENANT SPACE TIGHT TO STRUCTURE AND TERMINATE AT EXTERIOR GARAGE WALL. COORDINATE EXACT LOCATION WITH LANDLORD AND LANDLORD CONTRACTOR. MAINTAIN A MINIMUM OF 10'-0" FROM MECHANICAL AIR INTAKES AND OPERABLE OPENINGS TO THE BUILDING. PROVIDE WALL TERMINATION WITH INSECT SCREEN. SEAL ALL PENETRATIONS IN FIRE RATED WALLS ACCORDING TO LANDLORD REQUIREMENTS. VERIFY FIRE RATED WALLS IN FIELD.
6. FLOOR SINK SHALL BE TIGHT TO WALL. COORDINATE EXACT FLOOR SINK LOCATION WITH FINAL EQUIPMENT LAYOUTS AND POST TENSION TENDONS WITHIN SLAB.
7. ROUTE COOLER EVAPORATOR COIL CONDENSATE TO DRAIN WITH AIR GAP.

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NORTH CAROLINA PROFESSIONAL SEAL 41016 ENGINEER MICHAEL WOLF

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PLUMBING WASTE & VENT PLAN

P-200

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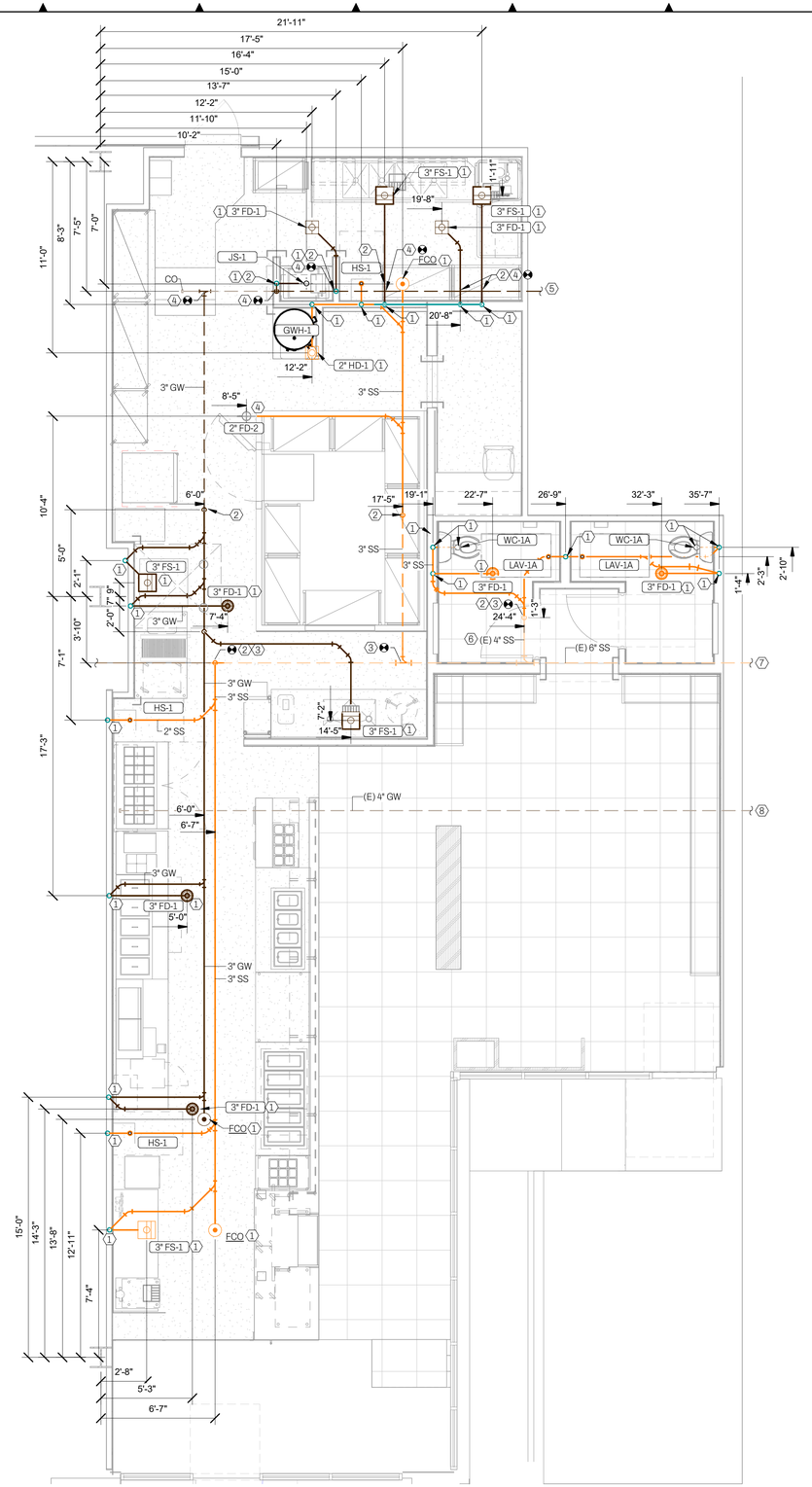

1 P-201 PLUMBING - OVERALL FLOOR PLAN - DWV PENETRATION PLAN
1/4" = 1'-0"

GENERAL NOTES

A. IT IS THE RESPONSIBILITY OF THE GENERAL AND PLUMBING CONTRACTOR TO FULLY INSPECT THE SITE PRIOR TO COMMENCEMENT.

B. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, BAR JOISTS, COLUMNS, POST TENSION TENDONS, ETC. AND COORDINATE ALL PIPES, SLEEVES, PLUMBING FIXTURES, ETC. LOCATIONS PRIOR TO CONSTRUCTION.

C. ROUTE CONDENSATE PIPING FROM HVAC AND WALK IN TO JANITOR SINK. PROVIDE CONDENSATE PUMP AS NECESSARY.

KEY NOTES

1. PROPOSED WASTE LINE PENETRATION THROUGH RAISED FLOOR. FIELD COORDINATE EXACT LOCATION, INVERT, PROPOSED CONNECTION, AND ROUTING PRIOR TO CONSTRUCTION. COORDINATE WITH RAISED FLOOR STRUCTURAL DESIGN. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
2. PROPOSED WASTE LINE PENETRATION THROUGH SLAB. FIELD COORDINATE EXACT LOCATION, INVERT, PROPOSED CONNECTION, AND ROUTING PRIOR TO CONSTRUCTION. COORDINATE WITH ALL STRUCTURAL ELEMENTS WITHIN AND BELOW SLAB. PROVIDE SLEEVING AND SEAL AROUND ALL FIRE RATED PENETRATIONS. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
3. ROUTE AND CONNECT NEW TENANT SANITARY LINE INTO EXISTING BUILDING LINE. FIELD COORIDINATE EXACT LOCATION AND INVERT OF EXISTING PLUMBING.
4. ROUTE AND CONNECT NEW TENANT GREASE WASTE LINE INTO EXISTING BUILDING LINE. FIELD COORIDINATE EXACT LOCATION AND INVERT OF EXISTING PLUMBING.
5. EXISTING 4" GREASE WASTE LINE UNDER TENANT SLAB IN GARAGE BELOW. FIELD COORDINATE EXACT LOCATION, INVERT, AND PROPOSED CONNECTIONS PRIOR TO CONSTRUCTION.
6. EXISTING 4" SANITARY WASTE LINE UNDER TENANT SLAB IN GARAGE BELOW. FIELD COORDINATE EXACT LOCATION, INVERT, AND PROPOSED CONNECTIONS PRIOR TO CONSTRUCTION.
7. EXISTING 6" SANITARY WASTE LINE UNDER TENANT SLAB IN GARAGE BELOW. FIELD COORDINATE EXACT LOCATION, INVERT, AND PROPOSED CONNECTIONS PRIOR TO CONSTRUCTION.
8. EXISTING 4" GREASE WASTE LINE UNDER TENANT SLAB IN GARAGE BELOW FOR ADJACENT TENANT USE.

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PLUMBING WASTE & VENT - PENETRATION PLAN

3 **P-201**

7/29/2025 10:43:20 AM

WATER AND WASTE CALCULATIONS

MARK	DESCRIPTION	QTY	WASTE		DOMESTIC WATER				
			DFU	TOTAL DFU	CWFU	TOTAL CWFU	HWFU	TOTAL HWFU	TOTAL WSFU
FD-1	FLOOR DRAIN	7	6	42		0		0	0
FD-2	FLOOR DRAIN	1	2	2		0		0	0
FS-1	FLOOR SINK	5	4	20		0		0	0
HB-1	HOSE BIBB	1	0	0	2.5	0	0	0	2.5
HD-1	HUB DRAIN	1	2	2		0		0	0
HS-1	SINK	3	2	6	1	3	1	3	4.2
JS-1	SINK	1	2	2	2.25	2.25	2.25	2.25	3
LAV-1A	LAVATORY	2	1	2	1.5	3	1.5	3	4
WC-1A	WATER CLOSET	2	4	8	5	10	0	0	10
TOTALS				84		18.25		8.25	23.7

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	CONNECTION SIZES				PRODUCT SPECIFICATION
			CW	HW	WASTE	VENT	
FD-1	WATTS	FD-100-A			3"		EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE HEAVY DUTY ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB OUTLET.
FD-2	WATTS	FD-100-A			2"		EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE HEAVY DUTY ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB OUTLET.
FS-1	WATTS	FS-740			3"		12" SQUARE X 8" DEEP SANITARY FLOOR SINK WITH WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB OUTLET.
HB-1	CHICAGO FAUCET	952-CP	1/2"				INTERIOR HOSE BIBB WITH VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, LOCK SHIELD CAP, AND REMOVABLE "TEE" HANDLE. PROVIDE SHUTOFF VALVE IN COLD WATER SUPPLY AHEAD OF HOSE BIBB.
HD-1	WATTS	FD-100-DD			2"		EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE CAST IRON HUB FUNNEL, AND NO HUB OUTLET.
HS-1	BY OWNER	BY OWNER	1/2"	1/2"	1 1/2"	1 1/2"	STAINLESS STEEL HANDSINK WALL MOUNTED, EXTERNAL ASSE 1070 COMPLIANT MIXING VALVE, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT.
JS-1	ZURN	Z1996-24	3/4"	3/4"	3"	3"	SERVICE BASIN 24"X24"X10" MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STRAINER, AND 3 GASKETED OUTLET CONNECTION. PROVIDE WITH WITH CHROME PLATED 3" DRAIN AND CAST IRON TRAP. FAUCET SHALL INCLUDE PAIL HOOK AND ATMOSPHERIC VACUUM BREAKER SPOUT. FURNISH 5'-0" LENGTH OF 5-PLY GARDEN HOSE AND FITTINGS.
LAV-1A	AMERICAN STANDARD	LUCERNE	1/2"	1/2"	1 1/2"	2"	WALL HUNG LAVATORY WITH BACKSPLASH, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED FAUCET WITH SENSOR, WATER TURBINE POWER WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT.
WC-1A	KOHLER	K-3519-ADA	1/2"		3"	2"	ELONGATED FLOOR MOUNTED TANK TYPE WATER CLOSET WITH TANK COVER LOCKS, WITH KHOLER K-4731 ELONGATED OPEN FRONT SEAT. PROVIDE A 1/4" BRASS BALL VALVE AT WALL CONNECTION. INSTALL AT ADA COMPLIANT HEIGHT.

REMARKS:
1. PROVIDE HYDROTOL 1" WATER HAMMER ARRESTOR, JR SMITH 5030, AS NEEDED.
2. PROVIDE 1/2" CONNECTION PRIME RITE TRAP PRIMER, PPP MP-500, AS NEEDED.
3. ANY SUBSTITUTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER PRIOR TO BID AND CONSTRUCTION.
4. ALL PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR.
5. ALL FIXTURES, EQUIPMENT, TRIM, FITTINGS, ETC. SHALL COMPLY WITH LOCAL, STATE AND/OR FEDERAL REGULATIONS AND CODES, INCLUDING BUT NOT LIMITED TO WATER AND ENERGY CONSERVATION CODES, AND THE AMERICANS WITH DISABILITIES ACT (ADA). THE SCHEDULE REFLECTS FIXTURES AND EQUIPMENT WHICH ARE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR CONTRACTORS BASE BID.

GAS-FIRED WATER HEATER SCHEDULE

IDENTITY	MANUFACTURER	MODEL	DOMESTIC PIPING SIZE	TEMP. RISE	HOT SETPOINT	RECOVERY CAPACITY	STORAGE CAPACITY	GAS BURNER			ELECTRICAL		REMARKS
								TYPE	INPUT RATING	OUTPUT RATING	EFFICIENCY	VOLTAGE	PHASE	
GWH-1	AO SMITH	BTH-199	1 1/2"	100 °F	140 °F	235 GPH	100 GAL	NG	199,900 BTU/H	193,903 BTU/H	97%	120 V	1	ALL

REMARKS:
1. PROVIDE ASSE 1017 COMPLIANT MIXING POWERS SERIES LFSH OR EQUAL.
2. PROVIDE ARMSTRONG LST-12 EXP TANK AND T&P SET AT 150 PSI DISCHARGE TO HUB DRAIN, FLOOR DRAIN, OR JANITOR'S SINK. DO NOT ROUTE INTO DRAIN PAN.
3. PROVIDE 2" DEEP DRAIN PAN BENEATH STORAGE TYPE WATER HEATER TO ENCASE ENTIRE WATER HEATER FOOTPRINT.
4. SET OUTLET TEMPERATURE TO 140 DEG F.
5. PROVIDE ASSE 1017 MIXING VALVE; POWERS SERIES LFSH OR EQUAL.

DOMESTIC CIRCULATOR PUMP SCHEDULE

IDENTITY	MANUFACTURER	MODEL	MATERIAL	PUMP DESIGN		DESIGN PIPE SIZE	CONNECTIONS		MOTOR		RATED VOLTAGE	ELECTRICAL		REMARKS
				FLOW	HEAD		SUCTION	DISCHARGE	POWER	FLA		VOLTAGE	PHASE	
DCP-1	BELL & GOSSETT	ECOCIRC E3-4V	BRASS	2.0 GPM	3.0 FT	1/2"	1/2"	1/2"	28 W	1.0 A	115 V	120 V	1	ALL

REMARKS:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE BALL VALVE AND CHECK VALVES FOR SERVICE.
3. PROVIDE WITH MANUFACTURER'S STANDARD ADJUSTABLE TEMPERATURE SENSOR TO ACCOMMODATE NORTH CAROLINA ENERGY CONSERVATION CODE, 2015 IECC EDITION.
4. PROVIDE WITH MANUFACTURER'S OPTIONAL TIMER ACCESSORY TO LIMIT CIRC PUMP OPERATION TO OCCUPIED HOURS TO ACCOMMODATE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE, BASED OFF INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION.

GAS LOAD SUMMARY	
MARK	LOAD (EACH)
WH-1	199,900 BTU/H
TOTAL GAS LOAD: 199,900 BTU/H	
PIPE CALCULATIONS:	
LONGEST RUN	50'
VALVE & FITTINGS	10'
EQUIVALENT LENGTH	60'
PIPE SIZE (INCH)	1"
1. 2018 IFGC -TABLE 402.4(2). 2. LESS THAN 2PSI, .5WC, AT .6 SPECIFIC GRAVITY. 3. PIPE TYPE - SCHEDULE 40 METALLIC.	

BACKFLOW PREVENTOR SCHEDULE

MARK	BASIS OF DESIGN		TYPE
	MANUFACTURER	MODEL	
BFP-1	CONBRACO	4ALF-207	RPZ BACKFLOW PREVENTOR- 1-1/2" LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELEIF VALVE AND AIR GAP FITTING.
BFP-2	APOLLO	4NLF-344-44	DUAL CHECK VALVE - ASSE 1024 DUAL CHECK VALVE
BFP-3	APOLLO	4NLF-333-33	DUAL CHECK VALVE - ASSE 1024 DUAL CHECK VALVE

REMARKS:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. ROUTE RELEIF (WHERE APPLICABLE) TO NEAREST MOP SINK OR HUB DRAIN AS INDICATED ON PLAN.

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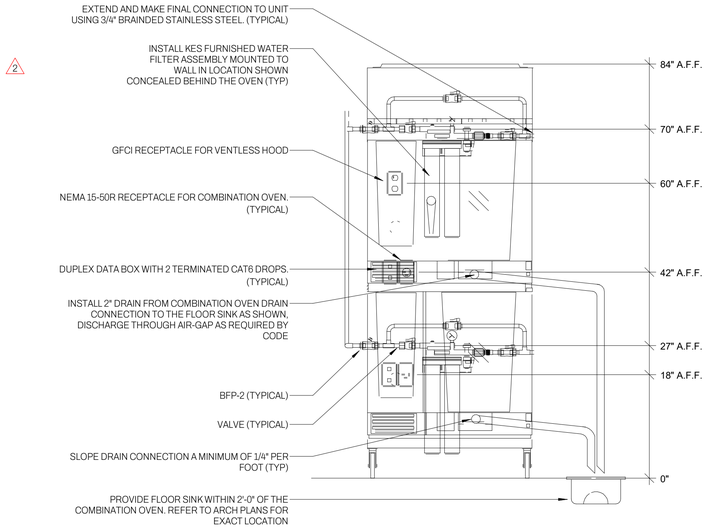
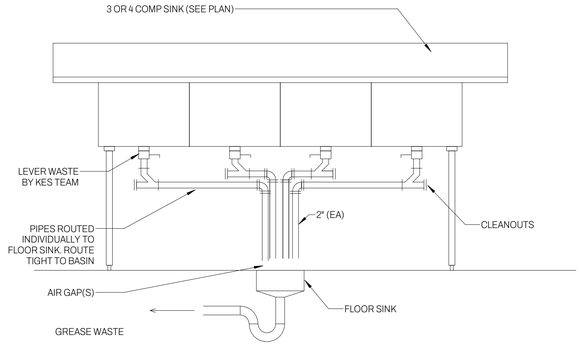
PLUMBING SCHEDULES

P-300

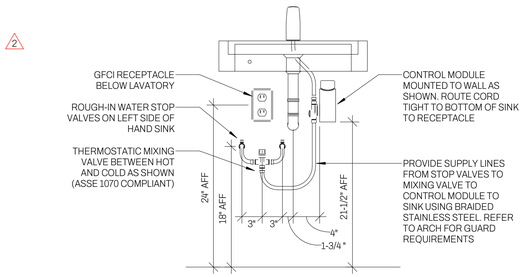
7/29/2025 10:43:24 AM



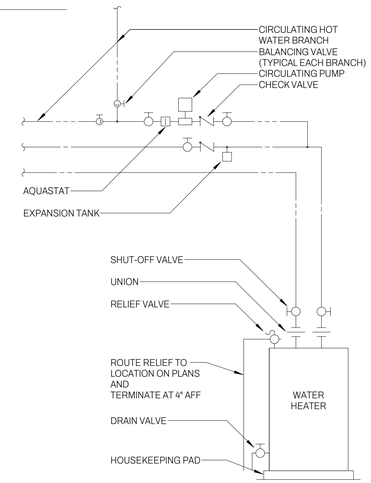
9 P-400 COMBINATION OVEN DETAIL
NOT TO SCALE



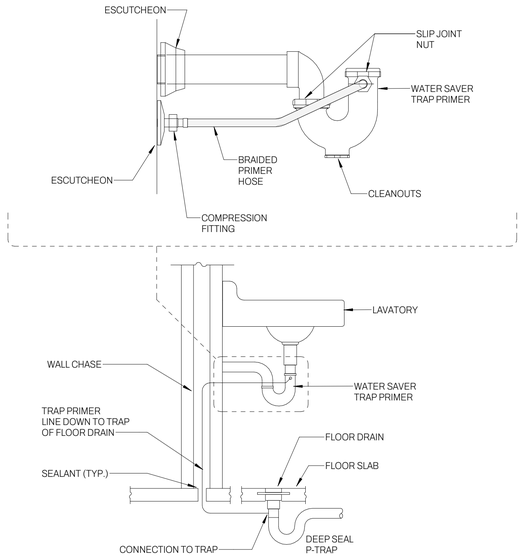
10 P-400 WAREWASHING SUPPLY DETAIL
NOT TO SCALE



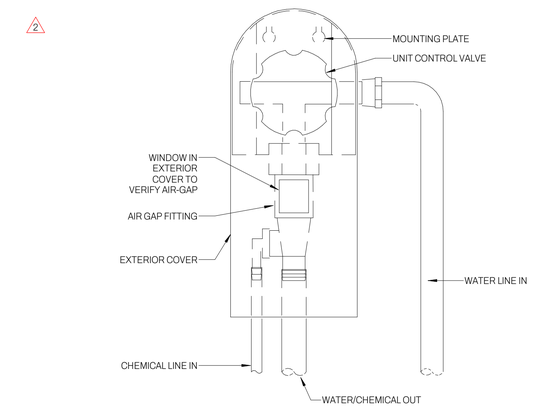
11 P-400 SG LAVATORY SINK DETAIL
NOT TO SCALE



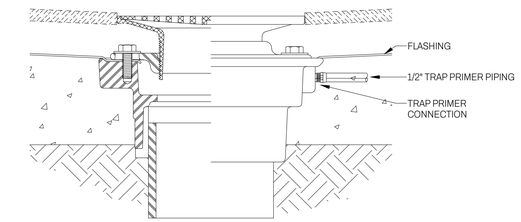
6 P-400 WATER HEATER PIPING DETAIL - SINGLE W/RECIRCULATION
NOT TO SCALE

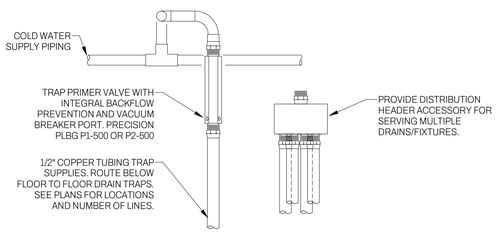


7 P-400 VALVE-LESS TRAP PRIMER DETAIL - TOILET ROOMS
NOT TO SCALE



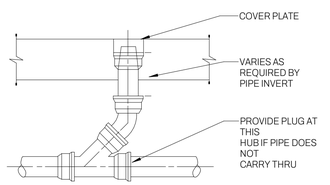
8 P-400 CHEMICAL DISPENSER DETAIL
NOT TO SCALE



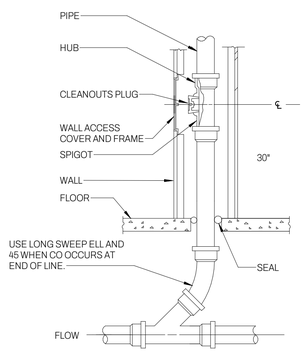


MOUNT TRAP PRIMER VALVE ABOVE CEILING AND AT LEAST ONE FOOT ABOVE FLOOD LEVEL RIM OF THE HUB DRAIN FLOOR FOR EVERY 20' OF PRIMER LINE. PROVIDE WITH ACCESS PANEL WHERE LOCATED ABOVE A HARD CEILING OR CONCEALED WITHIN WALL. PROVIDE PRIMER SERVICE FOR ALL INDIRECT WASTE DRAINS.

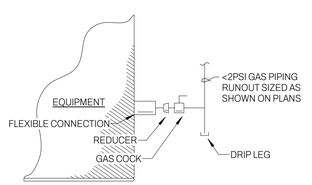
1 P-400 TRAP PRIMER DETAIL
NOT TO SCALE



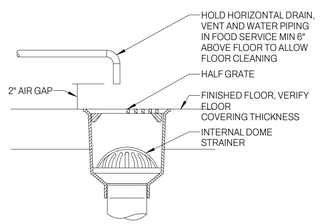
2 P-400 CLEAN OUT AND PLUGGED RISER
NOT TO SCALE



3 P-400 WALL CLEAN OUT DETAIL
NOT TO SCALE



4 P-400 GAS-FIRED EQUIPMENT PIPING CONNECTION DETAIL
NOT TO SCALE



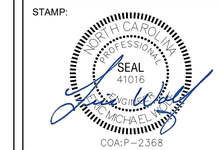
5 P-400 FLOOR SINK
NOT TO SCALE

7/29/2025 10:43:25 AM

sg
sweetgreen
3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

THESE DRAWINGS & SPECIFICATIONS ARE CONFIDENTIAL AND SHALL REMAIN THE SOLE PROPERTY OF SWEETGREEN CORPORATION. THEY SHALL NOT BE REPRODUCED (IN WHOLE OR IN PART), SHARED WITH THIRD PARTIES OR USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF SWEETGREEN CORPORATION. THESE DRAWINGS & SPECIFICATIONS ARE INTENDED TO EXPRESS DESIGN INTENT FOR A PROTOTYPICAL SWEETGREEN STORE (WHICH IS SUBJECT TO CHANGE AT ANY TIME) AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. NEITHER PARTY SHALL HAVE ANY OBLIGATION NOR LIABILITY TO THE OTHER (EXCEPT AS STATED ABOVE) UNTIL A WRITTEN AGREEMENT IS FULLY EXECUTED.

ENGINEER OF RECORD:
WOLF ENGINEERING
P.O. BOX 38 | DALTON, GA 30722

STAMP:


PROJECT INFORMATION:
PLAZA MIDWOOD

PROJECT INFORMATION:
1710 COMMONWEALTH AVE., SUITE 123 CHARLOTTE, NC 28205

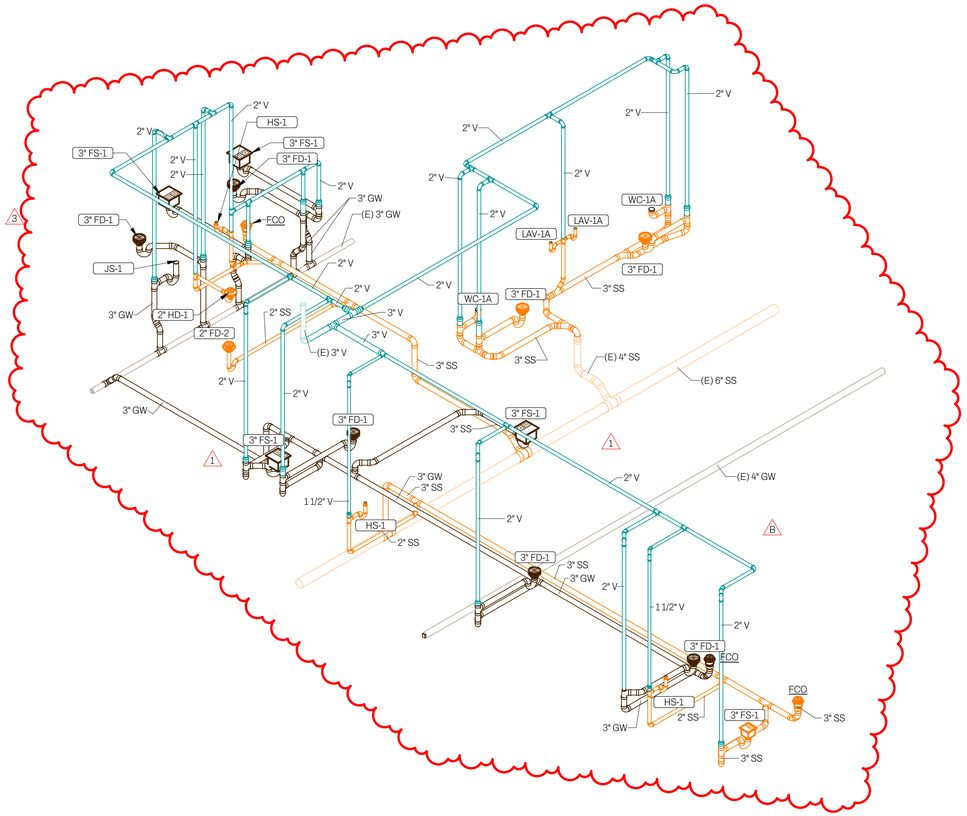
DRAWN BY:	TAL
CHECKED BY:	EW
PROJECT MANAGER:	JAH
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

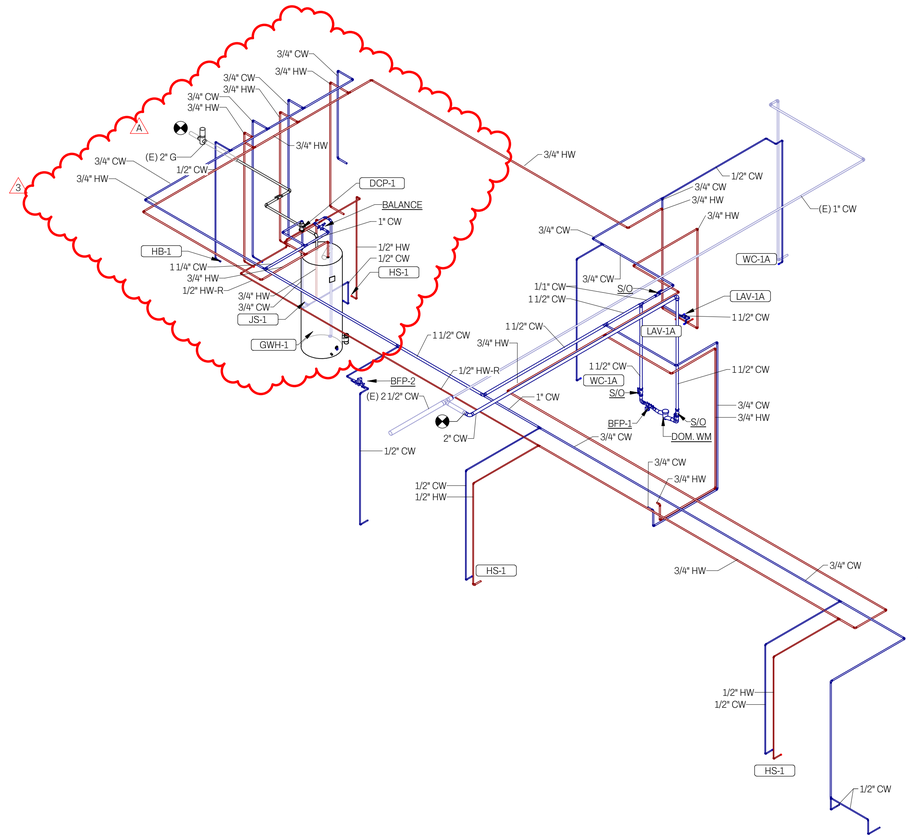
REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
1	05/16/2025	IFC SET
2	06/12/2025	RFI 04
3	07/29/2025	PERMIT AMENDMENT

PLUMBING DETAILS

A P-400



1 P-500 PLUMBING - WASTE & VENT RISER DIAGRAM



2 P-500 PLUMBING - DOMESTIC WATER RISER DIAGRAM

7/29/2025 10:43:27 AM

sg

sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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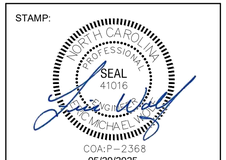
ENGINEER OF RECORD:

WOLF ENGINEERING

P.O. BOX 38 | DALTON, GA 30722

STAMP:



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CHARLOTTE, NC 28205

DRAWN BY:	TAL
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PROJECT MANAGER:	JAH
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SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	20240137.0
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION
	01/10/2025	PERMIT / HEALTH REVIEW SET
A	03/17/2025	ADDENDUM A
B	04/11/2025	ADDENDUM B
1	05/16/2025	IFC SET
3	07/29/2025	PERMIT AMENDMENT

PLUMBING RISER DIAGRAM

A **P-500**

GENERAL REQUIREMENTS

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, PROJECT BOUNDARIES AND EXISTING CONDITIONS AT THE SITE PRIOR TO COMMENCEMENT OF WORK AND IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF RECORD (SEOR) AND ARCHITECT OF RECORD (AOR) OF ANY DISCREPANCY. THE CONTRACTOR SHALL CHECK DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON OTHER CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF RECORD (SEOR) OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER CONSTRUCTION DOCUMENTS OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT THAN THOSE SHOWN ON CONTRACT DOCUMENT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOT ORDER MATERIAL, FABRICATE ELEMENTS, OR CONSTRUCT ANY PORTION OF STRUCTURE THAT IS IN CONFLICT UNTIL RESOLUTION IS MADE. IN THE EVENT OF CONFLICTS, INCONSISTENCIES AND DISCREPANCIES BETWEEN OR AMONG THE CONTRACT DOCUMENTS THE AOR/SEOR DECIDE WHICH OF THE CONFLICTING REQUIREMENTS WILL GOVERN BASED UPON THE MOST STRINGENT OF THE REQUIREMENTS. THE CONTRACTOR SHALL PERFORM THE WORK CONSISTENT WITH THE AOR/SEOR'S DECISION WITHOUT ADJUSTMENT OF THE CONTRACT SUM OR CONTRACT TIME.

3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED BY CONTRACTOR AGAINST ARCHITECTURAL DIMENSIONS. WHERE DIMENSIONS ARE UNCLEAR OR OMITTED, REQUEST CLARIFICATION FROM THE STRUCTURAL ENGINEER OF RECORD (SEOR) AND ARCHITECT OF RECORD (AOR). DO NOT SCALE DRAWINGS. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS INDICATE CENTERLINE OF BEAMS AND COLUMNS. LIGHT-FRAMED WALLS ARE DIMENSIONED TO FACE OF STUDS, AND FOOTINGS ARE CENTERED UNDER THE ELEMENTS THEY SUPPORT. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO START OF WORK.

4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS IN STRUCTURAL WALLS; SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS AND SLAB EDGES; SIZE AND LOCATION OF NON-BEARING WALLS AND OPENINGS; SIZE AND LOCATION OF CONCRETE CURBS, SLOPES, DEPRESSIONS, DRAINS, NON-STRUCTURAL PARTITIONS, CHANGES IN LEVEL, CHAMFERS AND REVEALS, INSERTS FOR FINISH SYSTEMS; EXTERIOR WALL FINISHES; STAIR SIZE, LOCATION, FRAMING AND DETAILS, UNLESS DETAILED ON STRUCTURAL DRAWINGS; DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

5. PROJECT SPECIFICATIONS SHALL BE A PART OF THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN GENERAL NOTES, PLANS, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. SPECIFIC NOTES AND DETAILS ON DRAWINGS GOVERN OVER GENERAL NOTES AND TYPICAL DETAILS. NOTIFY THE ARCHITECT OF RECORD (AOR) AND STRUCTURAL ENGINEER OF RECORD (SEOR) IMMEDIATELY WHERE CONFLICT OCCURS BETWEEN DRAWINGS AND SPECIFICATIONS. AOR/SEOR DECIDE WHICH OF THE CONFLICTING REQUIREMENTS WILL GOVERN BASED UPON THE MOST STRINGENT OF THE REQUIREMENTS.

6. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION DOCUMENTS AND MAY NOT BE SPECIFICALLY REFERENCED THEREIN. UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE TYPICAL DETAILS PRIOR TO COMMENCEMENT OF WORK. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD (SEOR) PRIOR TO FABRICATION AND INSTALLATION. DETAIL OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.

7. THESE DOCUMENTS SHALL NOT BE CONSTRUED AS STAND-ALONE DOCUMENTS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONSULTANTS' WORK.

8. MODIFICATIONS AND SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON STRUCTURAL DRAWINGS MUST BE ACCEPTED IN WRITING BY STRUCTURAL ENGINEER OF RECORD (SEOR) PRIOR TO COMMENCEMENT OF WORK. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING ADEQUACY OF THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. ARCHITECT OF RECORD (AOR) AND STRUCTURAL ENGINEER OF RECORD (SEOR), AT THEIR DISCRETION, MAKE DETERMINATION AS TO WHETHER OR NOT THE PROPOSED CONTRACTOR'S MODIFICATIONS AND/OR SUBSTITUTIONS IS ACCEPTABLE.

9. CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION OR NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN OF TEMPORARY ERECTION AIDS, FORMWORK, SCAFFOLDING, SAFETY MEASURES, SHORING OF ANY PORTION OF WORK DUE TO CONSTRUCTION EQUIPMENT, MACHINERY AND MATERIALS, AND PROTECTION OF ADJACENT PROPERTIES. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OF RECORD (SEOR) AND ARCHITECT OF RECORD (AOR) SHALL NOT CONSTITUTE ACCEPTANCE OF CONSTRUCTION MEANS AND METHODS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE ABOVE. CONSTRUCTION MATERIALS AND ERECTION LOADS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT THEY DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED LOADING CONDITION. CONSTRUCTION LOADS ON ELEVATED SLABS SHALL NOT RESULT IN EXCESSIVE SHORT-TERM OR LONG-TERM DEFLECTIONS.

10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE LATEST EDITION OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, AND ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS AS THEY APPLY TO THE PROJECT. THE STRUCTURAL ENGINEER OF RECORD (SEOR) AND THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.

11. ALL STRUCTURAL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING, AS REQUIRED, SHALL BE INSTALLED AND LEFT IN PLACE UNTIL ADEQUATE PORTION OF THE STRUCTURE IS CONSTRUCTED FOR STABILITY.

12. MAXIMUM PERMANENT EQUIPMENT WEIGHTS, POSTED LOAD LIMITS OR OTHER RESTRICTIONS NOTED ON THE STRUCTURAL DRAWINGS SHALL NOT BE EXCEEDED WITHOUT PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD (SEOR). UNLESS SPECIFICALLY STATED, THE STRUCTURE IS NOT DESIGNED TO SUPPORT TRAFFIC FROM FORK LIFTS, CRANES OR OTHER HEAVY CONSTRUCTION VEHICLES. ADEQUACY OF THE STRUCTURE TO SUPPORT TEMPORARY LOADS DURING CONSTRUCTION SHALL BE VERIFIED BY A LICENSED SHORING ENGINEER RETAINED BY CONTRACTOR. SHORING SYSTEM SHALL BE DESIGNED AS A COMPLETE SYSTEM THAT INCLUDES BUT NOT LIMITED TO GRAVITY LOADS AND LATERAL LOADS.

13. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION IF THE STRUCTURAL ENGINEER'S SEAL AND SIGNATURE IS NOT AFFIXED TO THESE DRAWINGS.

14. CONTRACTOR SHALL ESTABLISH AND VERIFY SIZE AND LOCATION OF ALL OPENINGS AND INSERTS BY ALL TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION. PENETRATION THROUGH SLABS AND WALLS SHALL BE IDENTIFIED BY CONTRACTOR AND SUBMITTED TO STRUCTURAL ENGINEER OF RECORD (SEOR) FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF CONCRETE OR CMU. CORE DRILLING SHALL ONLY BE PERMITTED WHERE AUTHORIZED IN WRITING BY SEOR PRIOR TO PROCEEDING WITH THE WORK. CORE DRILLS SHALL NOT CUT ANY REINFORCING, UNLESS PERMITTED BY SEOR IN WRITING. INSPECTOR OF RECORD (IOR) SHALL BE PRESENT DURING CORE DRILLING FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.

15. STRUCTURAL DRAWINGS INDICATE THE APPROXIMATE LOCATION OF EQUIPMENTS AND THEIR SECONDARY FRAMING SUPPORTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK BETWEEN SUBCONTRACTORS. IN ORDER TO PROVIDE NECESSARY DIMENSIONS IN A TIMELY MANNER TO ALL PARTIES INVOLVED. SECONDARY FRAMING SUPPORTING EQUIPMENTS SHALL BE PER TYPICAL DETAILS UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.

GENERAL REQUIREMENTS (CONTINUED)

16. SEE MECHANICAL, ELECTRICAL, AND PLUMBING (MEP) DRAWINGS FOR SIZE AND LOCATION OF EQUIPMENT PADS, EQUIPMENT ANCHORAGE TO STRUCTURE, AND EQUIPMENT WEIGHTS; ANCHORAGE AND SEISMIC BRACING OF DUCTWORK, PIPING, ELECTRICAL CONDUITS TO STRUCTURE; ELECTRICAL CONDUIT RUNS, OUTLETS AND BOXES IN CONCRETE SLABS AND WALLS; PIPE SLEEVES, TRENCHES, OPENINGS THROUGH WALLS AND SLABS FOR DUCTWORK, PIPE RUNS, AND ELECTRICAL CONDUIT RUNS.

17. STRUCTURAL JOINT DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS (EXPANSION, SEISMIC, SEPARATION, ETC) INDICATE THE MINIMUM CLEAR DISTANCE REQUIRED STRUCTURALLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. ALL PIPES, DUCTS, CONDUIT, ETC., CROSSING SUCH JOINTS SHALL HAVE FLEXIBLE LINES WITH ADEQUATE RANGE OF MOTION.

18. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (SEOR) PRIOR TO FABRICATION. ALLOW FOR A REVIEW DURATION OF MINIMUM 10 BUSINESS DAYS. SUBMITTALS SHALL CONSIST OF EITHER ELECTRONIC FILES OR TWO HARD COPIES (ONE SET TO BE KEPT BY THE STRUCTURAL ENGINEER OF RECORD AND ONE REPRODUCIBLE SET TO BE RETURNED TO CONTRACTOR).

19. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT OF RECORD (AOR) AND STRUCTURAL ENGINEER OF RECORD (SEOR) IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND DOES NOT CONSTITUTE AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS IN DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS, INCLUDING COORDINATION WITH OTHER TRADES.

20. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND SEOR FOR APPROVAL.

21. PREPARE TO-SCALE PROJECT-SPECIFIC SHOP DRAWINGS. SHOP DRAWINGS SHALL BE INDEPENDENTLY PRODUCED BY THE CONTRACTOR AND SHALL NOT BE A COPY OR REPRODUCTION OF THE CONTRACT DOCUMENTS.

22. ALL WORK IS NEW UNLESS INDICATED AS EXISTING (E).

STRUCTURAL DESIGN CRITERIA

1. GOVERNING CODE:
   ALL WORK SHALL BE IN CONFORMANCE WITH THE 2024 NC BUILDING CODE, INCLUDING ALL AMENDMENTS AND SUPPLEMENTS BY GOVERNING CODE AUTHORITY, AND OTHER CODES AND STANDARDS REFERENCED IN THE CONTRACT DOCUMENTS. ALL CODES AND STANDARDS REFERENCED IN CONTRACT DOCUMENTS SHALL BE THE LATEST EDITION.

2. GRAVITY DESIGN LOADS:

   SUPER IMPOSED DEAD LOAD..... 60 PSF
   FLOOR LIVE LOAD..... 100 PSF

3. WIND DESIGN DATA:

   BASIC DESIGN WIND SPEED.....109 MPH
   WIND EXPOSURE.....C
   RISK CATEGORY..... II
   BUILDING ENCLOSURE..... ENCLOSED
   INTERNAL PRESSURE COEFFICIENT.....±0.18
   EXTERIOR WIND PRESSURE (COMPONENT & CLADDING) BASED ON ZONE 5.

4. EARTHQUAKE DESIGN DATA:

   SITE LATITUDE..... 35.219759 N
   SITE LONGITUDE..... -80.815538 W
   RISK CATEGORY..... II
   SEISMIC IMPORTANCE FACTOR, I_e.....1.0
   SITE CLASS..... D (DEFAULT)
   SHORT-PERIOD SITE COEFFICIENT, F_a.....1.2
   LONG-PERIOD SITE COEFFICIENT, F_v.....2.1
   SITE-SPECIFIC SPECTRAL RESPONSE ACCELERATION, S_s..... 0.270 g
   SITE-SPECIFIC SPECTRAL RESPONSE ACCELERATION, S_1..... 0.088 g
   DESIGN SPECTRAL RESPONSE ACCELERATION, S_{DS}..... 0.220 g
   DESIGN SPECTRAL RESPONSE ACCELERATION, S_{D1}..... 0.120 g
   SEISMIC DESIGN CATEGORY.....B

DEMOLITION

1. DEMOLITION WORK SHALL BE CONDUCTED IN SUCH A MANNER AS TO NOT DAMAGE EXISTING ELEMENTS THAT ARE TO REMAIN IN THE FINISHED BUILDING.

2. VERIFY EXISTING BUILDING DIMENSIONS AND ELEVATIONS. NOTIFY AOR/SEOR OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.

3. PROVIDE MEASURES NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING DEMOLITION WORK. PROTECTIVE MEASURES SHALL REMAIN IN PLACE UNTIL THE FINAL STRUCTURAL ELEMENTS ARE IN PLACE AND ABLE TO SAFELY CARRY ALL IMPOSED EXISTING BUILDING LOADS. SUCH MEASURES INCLUDE, BUT NOT LIMITED TO, BRACING AND SHORING.

4. EXISTING ELEMENTS OF THE STRUCTURE THAT ARE TO REMAIN IN THE FINISHED BUILDING SHALL BE PROTECTED AS NECESSARY TO MINIMIZE DAMAGE DURING DEMOLITION WORK, ANY SUCH DAMAGE SHALL BE REPAIRED AND/OR REPLACED AT NO ADDED COST.

5. ROUGHEN EXISTING CONCRETE SURFACES AGAINST WHICH FRESH CONCRETE IS TO BE PLACED TO A FULL AMPLITUDE OF 1/4 INCH.

6. EXISTING CONCRETE ELEMENTS THAT ARE TO BE REMOVED BY CHIPPING SHALL BE STARTED WITH A 3/4 INCH DEEP SAW CUT. CORNERS SHALL BE DRILLED TO PREVENT OVER-CUTTING. EXPOSED SAW CUT LINES SHALL BE CLEAN, STRAIGHT AND SMOOTH.

7. EXISTING REINFORCING STEEL TO REMAIN SHALL BE CLEANED TO BARE METAL.

8. DEMOLISHED MATERIAL PLACED ON EXISTING FLOORS SHALL BE SPREAD OUT SUCH THAT IMPOSED LOADS DO NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING WHERE OVERLOAD IS ANTICIPATED.

STRUCTURAL SUBMITTALS

1. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE AOR AND SEOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS INCLUDING COORDINATION WITH OTHER TRADES.

3. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SEOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF EITHER ELECTRONIC FILES OR ONLY ONE SET FOR OUR RECORDS AND ONE REPRODUCIBLE SET.

4. SEOR WILL RETURN THE ELECTRONIC FILES OR REPRODUCIBLE SET CLEARLY MARKED WITH COMMENTS. ANY REQUIRED RECORD SET COPIES SHALL BE MADE FROM THIS RETURNED SET.

5. REPRODUCTION OF STRUCTURAL PLANS & DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS.

6. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND SEOR FOR APPROVAL.

7. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

8. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DOCUMENTS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE SEOR DEMONSTRATING EQUIVALENT QUALITIES OF THE MATERIAL TO BE SUBSTITUTED.

THE FOLLOWING LIST SUMMARIZES IMPORTANT STRUCTURAL SUBMITTALS FOR THIS PROJECT.
REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

GENERAL
- QUALIFICATION DATA FOR APPROVED INSTALLERS AND FABRICATORS
- CERTIFICATES OF CONFORMANCE FOR PREFABRICATED MEMBERS

SHORING AND EXCAVATIONS

1. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL TEMPORARY SHORING AND BRACING AS REQUIRED TO SUPPORT EXISTING FRAMING WHERE SUPPORT ELEMENTS (BEAMS, COLUMNS, AND BEARING WALLS) ARE TO BE REMOVED, EXCAVATIONS, AND WHERE INDICATED ON THE DESIGN DOCUMENTS.

2. DESIGN LOADS FOR SHORING AND BRACING OF FRAMING SHALL BE INDEPENDENTLY DETERMINED, BUT NOT LESS THAN THE DEAD LOADS AS STATED IN STRUCTURAL DESIGN CRITERIA WHERE NOTED.

3. TEMPORARY SOIL CUTS SHALL NOT EXCEED SLOPES RECOMMENDED IN THE SOIL REPORT, NOR THOSE SHOWN ON THE SHORING DRAWINGS FOR CONSTRUCTION OF FOUNDATIONS.

4. EXCAVATIONS AND FOUNDATION-RELATED SHORING SHALL BE PERFORMED UNDER THE CONTINUOUS INSPECTION AND APPROVAL OF THE GEOTECHNICAL ENGINEER. THE DESIGN OF SUCH SHALL BE BASED UPON RECOMMENDATIONS CONTAINED IN THE SOIL REPORT. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL DATA THEREIN AND SHALL KEEP A COPY OF THE REPORT AT THE JOB SITE AT ALL TIMES.

5. THE STRUCTURAL ENGINEER RESPONSIBLE FOR THE SHORING DESIGN (HEREAFTER CALLED THE SHORING ENGINEER) SHALL MAKE PERIODIC VISITS TO THE JOB SITE FOR THE PURPOSE OF OBSERVING THE INSTALLATION OF THE SHORING SYSTEM. OBSERVATIONS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE FOLLOWING:
   a. PRIOR TO THE START OF INSTALLATION, MEET WITH THE GEOTECHNICAL ENGINEER AND SHORING CONTRACTOR TO REVIEW ALL ASPECTS OF THE DESIGN AND INSTALLATION OF THE SHORING.
   b. REVIEW OF CONDITIONS AT COMPLETION OF EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE SHORING ENGINEER AT LEAST 48 HOURS PRIOR TO EACH OF THE ABOVE REQUIRED OBSERVATIONS.

6. WHERE MONITORING OF SHORING IS INDICATED ON THE DESIGN DOCUMENTS, CONTROL POINTS SHALL BE ESTABLISHED BY A LICENSED SURVEYOR TO MONITOR ANY HORIZONTAL AND VERTICAL MOVEMENTS OF THE SHORING. INITIAL READINGS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, AND WEEKLY DATA SHALL BE SUBMITTED AS WORK PROGRESSES AND THROUGHOUT THE CONSTRUCTION PERIOD. ADDITIONAL READINGS SHALL BE OBTAINED WHEN REQUESTED BY THE BUILDING OFFICIAL, SHORING ENGINEER OR GEOTECHNICAL ENGINEER. IF HORIZONTAL OR VERTICAL MOVEMENT EXCEEDS THE ALLOWED AMOUNT, THE GEOTECHNICAL ENGINEER, SHORING ENGINEER AND STRUCTURAL ENGINEER SHALL EVALUATE SUCH MOVEMENT AND RECOMMEND CORRECTIVE MEASURES, IF NECESSARY, BEFORE WORK IS CONTINUED.

SHEET LIST	
Sheet Number	Sheet Name
S-001	GENERAL NOTES
S-002	GENERAL NOTES
S-101	FLOOR TRUSS DETAILS
S-201	LEVEL 01 / FOUNDATION PLAN

sg

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07/25/2025

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SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION

GENERAL NOTES

S-001

7/29/2025 11:43:32 AM

POST-INSTALLED ANCHOR

1. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, SCREW ANCHORS, EPOXY ANCHORS/DOWELS, AND POWDER-ACTUATED FASTENERS.

2. INSTALL POST-INSTALLED ANCHORS PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.

3. WHEN INSTALLING POWER-INSTALLED ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS OR OTHER EMBEDDED ITEMS SUCH AS ELECTRICAL/TELECOMMUNICATIONS CONDUIT AND GAS LINES. WHEN INSTALLING DRILL-IN ANCHORS INTO PRESTRESSED CONCRETE (PRE OR POST-TENSIONED), LOCATE TENDONS DURING INSTALLATION BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.

4. WHERE SPECIFIED ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE PROVIDED, NOTIFY THE SEOR AND IOR PRIOR TO INSTALLATION.

5. PATCH ABANDONED HOLES AND SPALLS USING NON-SHRINK GROUT AND REPAIR FINISHES AS REQUIRED. ANCHORS PENETRATING THROUGH WATER PROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR FLASHED.

6. TESTING OF POST-INSTALLED ANCHORS IS REQUIRED UNO. TEST ANCHORS IN ACCORDANCE WITH THE PROVISIONS OF IBC 1910.5 AND THE FOLLOWING:
   a. TEST 100% OF ANCHORS AT ALL STRUCTURAL APPLICATIONS UNO.
   b. TEST 50% OF ANCHORS AT ALL-NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, UNO.
   c. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TEST FREQUENCY. IF THE ANCHORS ARE USED FOR THE SUPPORT AND BRACING OF NON-STRCTURAL COMPONENTS (PIPE, DUCT, OR CONDUIT), THE TWENTY (20) SHALL BE ONLY THOSE ANCHORS INSTALLED BY THE SAME TRADE.
   d. ALL POST-INSTALLED ANCHORS ARE TO BE TENSION TESTED WITH THE EXCEPTION THAT TORQUE TESTING IS ALLOWED IF THE ANCHORS ARE SPECIFICALLY DESIGNED AS TORQUE CONTROLLED.
   e. TENSION TESTS ACCEPTANCE: APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING NUT IS POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD. ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST, E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.
   f. TORQUE TESTS ACCEPTANCE: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE MANUFACTURER'S RECOMMENDED TORQUE WITHIN 1/2 TURN OF THE NUT.
   g. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
   h. FIELD TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR OR INSPECTOR OF RECORD.
   i. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
   j. INSPECTOR OF RECORDS SHALL REQUEST PROOF TEST VALUES FROM SEOR FOR EACH TYPE OF POST-INSTALLED ANCHORS AT LEAST 48 HOURS PRIOR TO TESTING.

7. INSTALLERS PLACING HORIZONTALLY OR UPWARDLY INCLINED ADHESIVE ANCHORS SHALL BE CERTIFIED BY ACI OR APPROVED EQUIVALENT.

8. RE-USE OF SCREW ANCHORS OR HOLES IS NOT PERMITTED.

EXISTING CONDITIONS

1. SEE "AS-BUILT" DRAWINGS FOR EXISTING BUILDING ITEMS NOT SHOWN OR NOTED.

2. FIELD VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.

3. WHERE ALL OTHER EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.

4. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED, INCLUDING WHERE WELDING TO EXISTING STEEL FRAMING. SHORING DESIGN BY OTHERS.

5. ALL EXISTING CONCRETE SURFACES TO BE IN CONTACT WITH NEW CONCRETE SHALL BE ROUGHENED TO 1/4" MINIMUM AMPLITUDE. USE ICC APPROVED BONDING AGENT ON EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE.

6. VERIFY LOCATION OF EXISTING REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING. EXISTING REINFORCING SHALL BE AVOIDED WHERE DRILLING FOR POST-INSTALLED ANCHORS OR CONCRETE DOWELS.

7. THE GENERAL CONTRACTOR SHALL COORDINATE THE WEIGHT AND SPECIFIC LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE STRUCTURAL FRAMING. IF THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED IN THE DRAWINGS, THE STRUCTURAL ENGINEER'S APPROVAL MUST BE OBTAINED PRIOR TO INSTALLATION OF THE UNITS.

8. ALL EXISTING WOOD FRAMING MEMBERS SUPPORTING NEW MECHANICAL UNITS SHALL BE INSPECTED FOR DAMAGE AND DETERIORATION PRIOR TO INSTALLATION OF THE UNITS. NOTIFY THE STRUCTURAL ENGINEER IF DAMAGE OR DETERIORATION IS DISCOVERED.

9. ALL EXISTING (E) WOOD ELEMENTS TO REMAIN SHALL BE FIELD INSPECTED DURING CONSTRUCTION AND TREATED FOR DRYROT REMOVAL / CONTROL. WHERE EXISTING GLUE LAMINATED TIMBER BEAMS TO REMAIN ARE FOUND TO HAVE EXTENSIVE DRYROT DEEPER THAN THE TOP TWO LAMINATIONS (3"), THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT GLUE LAMINATED TIMBER BEAMS .

10. ALL EXISTING CONNECTIONS AT ELEMENTS TO BE REPLACED SHALL BE REPLACED OR RE-ATTACHED TO MATCH EXISTING CONDITIONS.

11. SEE PROJECT REPORTS AND ARCHITECTURAL DRAWINGS FOR HAZARDOUS MATERIALS (LEAD, ASBESTOS, ETC.) ABATEMENT REQUIREMENTS.

12. DO NOT CUT OR DAMAGE EXISTING CONCRETE OR MASONRY REINFORCEMENT EXCEPT AS CLEARLY INDICATED ON STRUCTURAL DRAWINGS. MAINTAIN AT LEAST 2 INCHES CLEAR TO EXISTING REINFORCEMENT, CONDUIT AND OTHER EMBEDDED ITEMS FROM CUTS, CORES, DRILL HOLES, SHOTPINS, ETC. IN AREAS OF WORK, MARK LOCATIONS OF SUCH ITEMS USING NONDESTRUCTIVE METHODS SUCH AS GROUND PENETRATING RADAR OR X-RAY.

COLD-FORMED STEEL FRAMING

1. DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE CURRENT CBC ADOPTED EDITION OF THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", INCLUDING ALL APPLICABLE AMENDMENTS.

2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.

3. COLD-FORMED STEEL GRADES (ASTM A1003):

   18 GA (43 MILS) OR THINNER.....GRADE 33 (Fy = 33 KSI)
   16 GA (54 MILS) AND THICKER.....GRADE 50 (Fy = 50 KSI)

4. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE SEOR AND AOR FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

5. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS SHALL BE DART SELF DRILLING SCREWS (ICC ESR-1408) OR ITW BUILDEX TEKS (ICC ESR-1976) AND SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513, SELF-DRILLING AND TAPPING TYPE, WITH PANCAKE FRAMER HEAD TYPE FOR #10 SMS AND HEX WASHER HEAD TYPE FOR #12 AND #14 (1/4"Ø) SMS UNLESS NOTED OTHERWISE.

6. COLD-FORMED STUD MEMBERS SHALL BE UNPUNCHED WHERE USED FOR THE FOLLOWING: HEADERS AND SILLS OF OPENINGS WIDER THAN 3'-0", AND BUILT-UP BOX AND BACK-TO-BACK SECTIONS. PUNCH-OUTS SHALL BE LOCATED IN THE CENTER OF THE WEB WITH A MINIMUM SPACING OF 24"OC, HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4 1/2". THE MINIMUM DISTANCE BETWEEN THE END OF THE MEMBER AND THE NEAR EDGE OF THE PUNCH-OUT SHALL BE 12".

7. WELDING OF LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3.

POWDER ACTUATED FASTENERS (PAF)

1. ALLOWABLE POWDER-ACTUATED FASTENERS (PAF) SHALL BE EITHER ONE OF THE FOLLOWING UNO: HILTI X-U (ICC ESR-2269), SIMPSON POWER-DRIVEN FASTENERS (ICC ESR-2138), DEWALT CSI SPIRAL DRIVE PIN (ICC ESR-2024)

2. INSTALL PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.

3. PROVIDE 0.08" THICK x 1.1" SQUARE OR 1.425" ROUND WASHERS FOR ALL POWDER-ACTUATED FASTENERS.

4. THE MINIMUM EMBEDMENT OF PAF INTO CONCRETE SHALL BE 1" UNO.

5. THE EMBEDMENT OF PAF INTO STEEL SHALL BE THAT REQUIRED BY PAF MANUFACTURER ICC ESR REPORT.

6. TESTING OF PAF IS NOT REQUIRED.

7. MAINTAIN ALL APPLICABLE EDGE DISTANCE AT CURBS AND SLAB EDGES PER MANUFACTURER'S ICC ESR REPORT.

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07/25/2025

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PROJECT MANAGER:	KG
SG DESIGN MANAGER:	SC
SG DM CHECKED BY:	SC
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

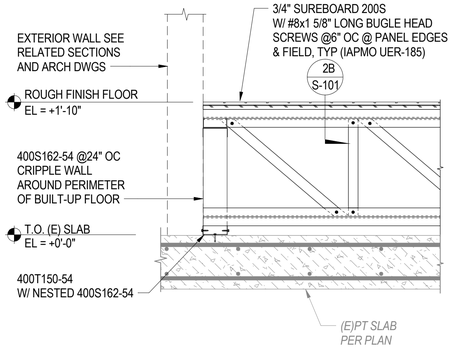
REVISIONS

REV.	DATE	DESCRIPTION

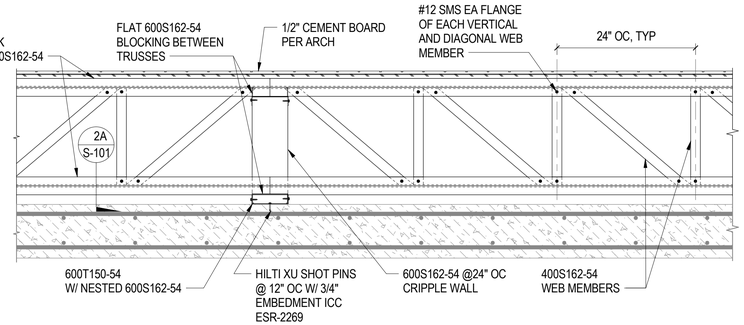
GENERAL NOTES

S-002

7/29/2025 11:43:32 AM



EDGE CONDITION

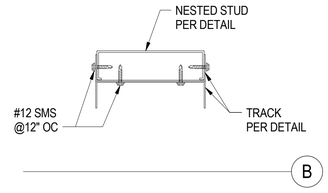


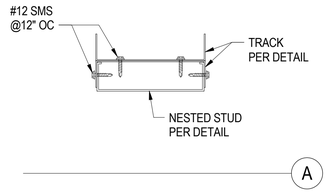
INTERIOR CONDITION

BUILT-UP FLOOR TYPICAL DETAIL

SCALE: 1" = 1'-0"

1
S-101





DETAIL

SCALE: 3" = 1'-0"

2
S-101

7/29/2025 11:43:33 AM

sg

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PLAZA MIDWOOD

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PROJECT MANAGER:	KG
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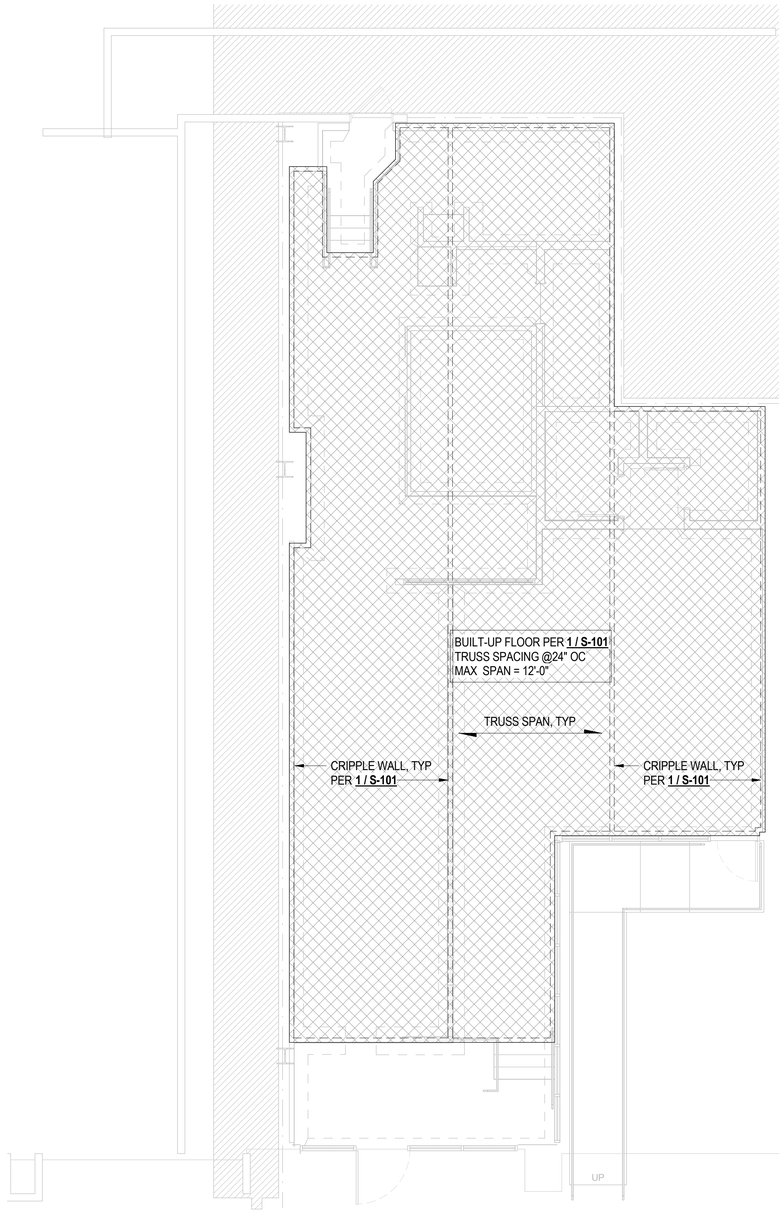
SG CONSTR. MANAGER:	MC
PROJECT NO:	00263
TEMPLATE VERSION:	2401

REVISIONS

REV.	DATE	DESCRIPTION

FLOOR TRUSS DETAILS

S-101



LEVEL 01 / FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

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sg

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LEVEL 01 / FOUNDATION PLAN

S-201