

PROJECT GENERAL NOTES

A.

ARCHITECTURAL CONTENTS ARE BASED UPON DOCUMENTS FROM: LANDLORD - ON 2022-09-29 - PLANS TITLED RETAIL_B_CURRENT SET THRU REV_004.

B.

IN ADDITION TO THE GENERAL NOTES LISTED HEREIN, THE LATEST EDITION OF AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION SHALL APPLY.

C.

WORK SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES, ORDINANCES, LAWS AND REQUIREMENTS.

D.

WORK, WHEN COMPLETED, SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT AND LOCAL ACCESSIBILITY REQUIREMENTS.

E.

THE CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. COORDINATE PORTIONS OF WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS.

F.

THE CONSTRUCTION DOCUMENTS, AS DEFINED BY THE DRAWING AND SPECIFICATION INDEX, ARE NECESSARY TO DEFINE THE TOTAL PROJECT. PARTIAL PLANS OR SPECIFICATIONS SHOULD NOT BE ISSUED BY ANY PARTIES FOR BIDDING OR CONSTRUCTION.

G.

IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS TO DESCRIBE A COMPLETE AND FINISHED PROJECT, OTHER THAN ITEMS NOTED "NIC" (NOT IN CONTRACT). ERRORS, OMISSIONS AND INCONSISTENCIES THAT MAY OCCUR BETWEEN THE CONSTRUCTION DOCUMENTS AND/OR EXISTING CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT IN WRITING AND WRITTEN INSTRUCTIONS SHALL BE OBTAINED PRIOR TO PROCEEDING WITH THE WORK. THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES AND/OR OMISSIONS WHICH THE GENERAL CONTRACTOR FAILED TO NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION OF THE WORK.

H.

GENERAL CONTRACTOR SHALL INCLUDE AND PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION AND PAY EXPENSES INCURRED IN THE PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. GENERAL CONTRACTOR SHALL PERFORM WORK NECESSARY FOR PRODUCTION OF A COMPLETE, HABITABLE PROJECT AS DEFINED BY THE SCOPE OF WORK.

I.

DO NOT SCALE DRAWINGS. BIDDER (CONTRACTOR) SHALL VERIFY CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, WHETHER BUILT OR NOT, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING WORK.

J.

IF THE STATED DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHIC, THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.

K.

NOTE THAT ERRORS IN THE TRANSMISSION OR REPRODUCTION OF THESE CONSTRUCTION DOCUMENTS COULD RESULT IN ALTERATIONS TO LINE TYPES, THICKNESSES, TONES, COLORS, HATCH PATTERNS AND SCALE. WILKUS ARCHITECTS IS NOT RESPONSIBLE FOR ANY CLAIMS, DAMAGES OR EXPENSES ARISING FROM THE UNAUTHORIZED USE OF THE INFORMATION CONTAINED WITHIN.

L.

IF THE CONSTRUCTION DOCUMENTS APPEAR TO BE UNCLEAR, AMBIGUOUS OR SUBCONTRACTORY, AND IN THE EVENT THAT THE CONTRACTOR, OR SUBCONTRACTOR, DETERMINES CLARIFICATION OR INTERPRETATION BY THE ARCHITECT IS REQUIRED, THE GENERAL CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION IN WRITING TO THE ARCHITECT PRIOR TO START OF THE WORK.

a.

REQUESTS FOR INFORMATION MAY ONLY BE MADE BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL CLEARLY AND CONCISELY SET FORTH THE ISSUE FOR WHICH CLARIFICATION IS SOUGHT AND WHY A RESPONSE IS NEEDED FROM THE ARCHITECT AND/OR CONSULTANTS. IN THE REQUEST FOR INFORMATION, THE CONTRACTOR SHALL SET FORTH AN UNDERSTANDING OF THE REQUIREMENT, ALONG WITH A REASON WHY SUCH AN UNDERSTANDING WAS REACHED.

b.

THE ARCHITECT WILL REVIEW THE REQUEST FOR INFORMATION TO DETERMINE IF IT IS WITHIN THE MEANING OF THIS TERM. IF THE ARCHITECT DETERMINES THAT IT IS NOT A REQUEST FOR INFORMATION, IT WILL BE RETURNED TO THE CONTRACTOR UNREVIEWED AS TO CONTENT OR FOR RE-SUBMITTAL IN THE PROPER FORM AND MANNER.

c.

RESPONSES TO REQUESTS FOR INFORMATION SHALL BE ISSUED UPON RECEIPT, BUT NO LATER THAT FIVE WORKING DAYS OF RECEIPT, UNLESS IT IS DETERMINED THAT A LONGER PERIOD OF TIME IS NEEDED IN ORDER TO PROVIDE ADEQUATE RESPONSE. IF A LONGER PERIOD OF TIME IS NECESSARY, THE ARCHITECT WILL, WITHIN FIVE WORKING DAYS OF THE RECEIPT OF THE REQUEST FOR INFORMATION, NOTIFY THE GENERAL CONTRACTOR OF THE ANTICIPATED RESPONSE TIME. IF THE REQUEST FOR INFORMATION IS SUBMITTED WITH FIVE WORKING DAYS OR LESS FLOAT ON THE PROJECT SCHEDULE, THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY TIME EXTENSION DUE TO THE TIME REQUIRED TO REVIEW AND RESPOND, PROVIDED A RESPONSE IS GIVEN WITHIN THE FIVE WORKING DAYS AS SET FORTH ABOVE.

e.

RESPONSES FROM THE ARCHITECT ARE NOT INTENDED TO CHANGE ANY OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT THAT THE CONTRACTOR BELIEVES A RESPONSE WILL CAUSE A CHANGE TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY GIVE WRITTEN NOTICE TO THE ARCHITECT AND CLIENT STATING THAT THEY CONSIDER THE RESPONSE TO BE A CHANGE ORDER. FAILURE TO GIVE SUCH WRITTEN NOTICE IMMEDIATELY SHALL WAIVE THE CONTRACTORS RIGHT TO SEEK ADDITIONAL TIME AND/OR COST.

M.

ANY DIMENSIONS, DETAILS, NOTES AND/OR SYMBOLS THAT APPLY TO ONE UNIT, APPLY TO ALL UNITS IN LIKE SITUATIONS, UNLESS NOTED OTHERWISE.

N.

FOR THE PURPOSE OF THESE DOCUMENTS, "INSTALL" SHALL MEAN TO PROVIDE, PROVIDERS, MISCELLANEOUS HARDWARE, BLOCKING, ELECTRICAL CONNECTIONS, PLUMBING CONNECTIONS AND ANY OTHER ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION, UNLESS NOTED OTHERWISE.

O.

FOR THE PURPOSE OF THESE DOCUMENTS, "BY GC" WILL REFER TO ITEMS PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR, THEIR SUBCONTRACTORS AND/OR AGENTS. THE TERM "BY CLIENT" WILL REFER TO ITEMS PROVIDED BY THE CLIENT AND INSTALLED BY THE GENERAL CONTRACTOR.

P.

PRODUCTS THAT HAVE BEEN USED IN PREPARING THESE DOCUMENTS, ARE TO ESTABLISH MINIMUM QUALITIES. PROPOSED SUBSTITUTIONS MUST MEET THESE QUALITIES, OR BETTER, TO BE CONSIDERED ACCEPTABLE. THE BURDEN OF PROOF OF EQUALITY RESTS WITH THE GENERAL CONTRACTOR. ADEQUATE SUPPORTING DOCUMENTATION MUST ACCOMPANY SUBSTITUTION REQUEST SUBMITTALS, WHICH MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO BIDDING.

Q.

GENERAL CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMISSION OF BID AND BEGINNING OF ANY WORK TO EXAMINE AND COMPARE THE DRAWINGS AND SPECIFICATIONS TO THE EXISTING CONDITIONS AND BE KNOWLEDGEABLE OF WORK TO BE PERFORMED. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

R.

NOTIFY ALL PARTIES IF HAZARDOUS MATERIALS ARE SUSPECTED OR FOUND TO BE PRESENT.

S.

NOTIFY ARCHITECT IMMEDIATELY OF EXISTING CONDITIONS THAT ARE EXPOSED DURING CONSTRUCTION THAT MAY IMPACT ANY PROPOSED NEW WORK.

T.

DO NOT ATTEMPT REMOVAL OF ANY STRUCTURE OR ELEMENT SUSPECTED OF BEING STRUCTURAL IN NATURE. STRUCTURAL MODIFICATIONS TO THE BUILDING OR STRUCTURAL SYSTEMS (OF ANY TYPE) REQUIRE APPROVAL FROM THE BUILDING OWNER AND AN APPROVED STRUCTURAL ENGINEER.

U.

GENERAL CONTRACTOR TO PROVIDE TEMPORARY BARRICADES, WINDOW BLACKOUTS AND DUST CONTROL, AS REQUIRED BY CLIENT, LANDLORD OR AUTHORITY HAVING JURISDICTION FOR THE DURATION OF CONSTRUCTION. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.

W.

THROUGHOUT THE PROJECT, THE GENERAL CONTRACTOR SHALL CLOSELY SUPERVISE THE WORK OF SUBCONTRACTORS AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS AND TECHNIQUES, INCLUDING SAFETY PROCEDURES AND FOR COORDINATING/SEQUENCING TRADES.

X.

GENERAL CONTRACTOR SHALL TAKE OUT ANY NECESSARY TRADE-LEVEL PERMITS, INSURANCE, LICENSES, BONDS AND CERTIFICATES AND PAY ALL FEES CONNECTED TO THE WORK DESCRIBED HEREIN.

Y.

ALL CONTRACTORS FOR THE WORK ARE REQUIRED TO HAVE INSURANCE OF ALL TYPES AND LIMITS, AS REQUIRED FOR THIS PROJECT.

Z.

REFER TO ENGINEERED CONSTRUCTION DOCUMENTS BY OTHERS FOR ADDITIONAL PERTINENT INFORMATION.

AA.

ABBREVIATIONS ARE PER THE UNITED STATES NATIONAL CAD STANDARD - FOUND IN MODULE 5 - TERMS AND ABBREVIATIONS.

BB.

REFER TO INDIVIDUAL DRAWINGS WITHIN THIS SET OF CONSTRUCTION DOCUMENTS FOR ADDITIONAL GENERAL NOTES.

CC.

GENERAL CONTRACTOR IS RESPONSIBLE TO CONTACT (client, landlord, etc) TO VERIFY, COORDINATE AND COMPLY, DURING THE BIDDING PHASE, WITH REQUIREMENTS INCLUDING, BUT NOT LIMITED TO BARRICADES, STAGING, CONSTRUCTION PROCEDURES, USE OF MANDATED SUBCONTRACTORS, DEBRIS REMOVAL, RESTRICTED HOURS OF CONSTRUCTION, SECURITY, UTILITIES, ETC.

DD.

GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ITEMS WHICH ARE OBVIOUS AND NECESSARY TO ENSURE QUALITY WORKMANSHIP AND INSTALLATION, EVEN IF NOT SPECIFICALLY MENTIONED IN THE DRAWINGS, INCLUDING BUT NOT LIMITED TO BLOCKING AND BRACING.

EE.

ANY DEVIATION FROM THESE CONSTRUCTION DOCUMENTS ON THE PART OF THE GENERAL CONTRACTOR, ANY SUBCONTRACTOR, VENDOR AND/OR SUPPLIER, OR USE OF THESE CONSTRUCTION DOCUMENTS FOR USE AT ANY LOCATION OTHER THAN THAT FOR WHICH THEY WERE INTENDED, SHALL RELEASE WILKUS ARCHITECTS, AND ITS SUBSIDIARIES, AND THEIR OFFICERS, DIRECTORS, SHAREHOLDERS, AGENTS, EMPLOYEES, REPRESENTATIVES, SUCCESSORS AND ASSIGNEES, FROM ANY AND ALL LIABILITY INCURRED IN LITIGATION OR OTHERWISE WITH RESPECT TO THE CONSTRUCTION OF THIS PROJECT.

FF.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THEIR WORK AND THAT OF THEIR SUBCONTRACTORS FOR THE LOSSES AND DAMAGES TO EQUIPMENT, EXISTING CONSTRUCTION, TOOLS AND MATERIALS USED IN CONJUNCTION WITH THE WORK, FOR THE ACTS OF THEIR EMPLOYEES AND SUBCONTRACT WORKERS.

GG.

GENERAL CONTRACTOR SHALL ADHERE AND COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING JOB SAFETY.

HH.

GENERAL CONTRACTOR IS RESPONSIBLE TO CARRY WORKER'S COMPENSATION AS REQUIRED BY LAW AND/OR GOVERNING AUTHORITY.

II.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION.

JJ.

GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A COMPLETE AS-BUILT SET OF CONSTRUCTION DRAWINGS AT THE JOB SITE AND TURNING THE AS-BUILT DRAWINGS OVER TO THE CLIENT UPON COMPLETION OF THE PROJECT.

KK.

THE APPROVED PLANS (FOR CONSTRUCTION SET) SHALL BE KEPT ON SITE AT ALL TIMES, INCLUDING ALL ADDENDA, SUPPLEMENTAL INSTRUCTIONS, CHANGE ORDERS, COPIES OF APPROVED SUBMITTALS, ETC.

LL.

IF REQUIRED, THE GENERAL CONTRACTOR SHALL PROVIDE SCHEDULING AND/OR COORDINATION WITH THE APPROPRIATE REPRESENTATIVE FOR THE FOLLOWING INSTALLATIONS OR PROCEDURES:

a.

INSTALLATION OF CONDUIT AND PIPING IN OR BELOW THE FLOOR SLAB.

b.

CONNECTIONS TO DOMESTIC WATER, SANITARY AND GREASE WASTE, SANITARY VENT AND SMOKE/FIRE ALARMS.

c.

INSTALLATION OF PRIMARY DUCTWORK, VAV BOXES AND CONTROLS.

d.

PROGRAMMING OF THE VAV BOX CONTROL AND SENSORS.

e.

ANY WORK REQUIRED AT THE BUILDING SWITCHGEAR.

f.

HARDWARE AND SOFTWARE MODIFICATIONS TO COMPLETE THE INTERFACE WITH THE BASE BUILDING LIFE SAFETY SYSTEM.

g.

UPON SUBSTANTIAL COMPLETION OF WORK IN THE PREMISES, CLIENT AND THE CONTRACTOR MUST SCHEDULE A FINAL INSPECTION AND PREPARE A PUNCHLIST WHICH ENUMERATES ANY AREAS OF CONSTRUCTION, FIXTURING, LIGHTING OR LAMPING, MERCHANDISING, ETC., THAT ARE NOT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. ANY STOREFRONT BARRICADE MAY NOT BE REMOVED UNTIL THE INSPECTION AND REQUIRED CORRECTIONS HAVE BEEN COMPLETED.

h.

LANDLORD'S CONDITIONS IN THE FACILITY TENANT DESIGN GUIDE HANDBOOK SHALL BE A PART OF ANY CONTRACT AND/OR AGREEMENT ENTERED INTO BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE LANDLORD CONTACT PRIOR TO ANY CONSTRUCTION.

i.

PROVIDE LANDLORD REQUIRED PROOF OF BUILDERS RISK INSURANCE AND DAMAGE DEPOSIT PRIOR TO BEGINNING OF ANY SELECTIVE DEMOLITION OR CONSTRUCTION PROCEDURES.

MM.

GENERAL CONTRACTOR TO VERIFY REQUIREMENTS TO MAINTAIN ROOF WARRANTY. ANY ROOF PATCHING SHALL RETURN THE AFFECTED AREA TO A "LIKE NEW" CONDITION.

NN.

GENERAL CONTRACTOR ASSUMES COMPLETE RESPONSIBILITY WHEN CLIENT FURNISHED ITEMS ARE RECEIVED AND RECEIVED BY THE GENERAL CONTRACTOR OR THEIR AGENTS.

OO.

PROVIDE PROTECTION FOR EXISTING OR NEWLY INSTALLED SYSTEMS AND FINISHES FOR THE DURATION OF CONSTRUCTION.

PP.

GENERAL CONTRACTOR TO INSTALL DUST PROOFING AND/OR RIGID BARRIERS AS APPROPRIATE TO DEFINE VARIOUS SEGMENTS. BARRIERS TO MAINTAIN EXITING, MECHANICAL, AND FIRE/LIFE SAFETY REQUIREMENTS FOR BUILDING OCCUPANTS.

QQ.

GENERAL CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF PORTIONS OF WORK ALREADY PERFORMED TO DETERMINE THAT SUCH PORTIONS ARE IN PROPER CONDITION FOR SUBSEQUENT WORK.

RR.

MOLD AND MOISTURE MITIGATION - GENERAL CONTRACTOR TO COORDINATE AND ENSURE THAT ANY AREA OF THE BUILDING, MATERIAL, OR ASSEMBLY WITHIN THE BUILDING ENVELOPE IS THOROUGHLY CLEANED AND DRY BEFORE BEING COVERED BY CONSTRUCTION. ANY MOLD, MILDEW OR OTHER MOISTURE COVERED WITHIN THE SCOPE OF WORK OF THIS CONTRACT DEMOLITION OR NEW CONSTRUCTION) SHALL BE CORRECTED AND/OR MITIGATED BY THE GENERAL CONTRACTOR PRIOR TO ADDITIONAL WORK.

SS.

CONTACT BETWEEN DISSIMILAR METALS SHALL BE LIMITED. WHEN REQUIRED, THE CONTACT SHALL BE PROTECTED AS REQUIRED.

TT.

ALL SHUTDOWNS OF MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM AND/OR FIRE SPRINKLER SYSTEMS SHALL BE COORDINATED WITH THE LANDLORD AND COMPLY WITH THE AUTHORITY HAVING JURISDICTION'S REQUIREMENTS FOR NOTIFICATION, FIRE WATCH, RE-TESTING, ETC. REMOVE COMBUSTIBLE RUBBISH DURING CONSTRUCTION FROM THE PROJECT LIMITS CONTINUOUSLY AND DISPOSE OF IN A LEGAL MANNER.

UU.

ENDORS ARE RESPONSIBLE FOR DISPOSAL OF SHIPPING/CRATING MATERIALS. VERIFY WITH THE GENERAL CONTRACTOR THE USE OF THE DUMPSTER ON SITE. SUBCONTRACTORS MUST DISPOSE OF THEIR CONSTRUCTION DEBRIS. IF NOT COMPLETED, IT WILL BE COMPLETED AND BACK CHARGED FOR CLEANING. COORDINATE DISPOSAL WITH JOB SUPERINTENDENT.

VV.

AT THE TIME OF PROJECT COMPLETION, THE PROJECT LIMITS ARE TO BE THOROUGHLY CLEANED PRIOR TO TURNOVER TO CLIENT.

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KEYNOTE & WASHROOM ACCESSORIES NUMBER

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WALL TAG

LEVEL TARGET

0

COLUMN GRID LABEL

101

ROOM NAME

101

ROOM NAME & NUMBER

1

REVISION NUMBER

REVISION NUMBER

1

DOOR NUMBER

DOOR NUMBER

1

MISCELLANEOUS EQUIPMENT NUMBER

MISCELLANEOUS EQUIPMENT NUMBER

1

KITCHEN EQUIPMENT NUMBER

KITCHEN EQUIPMENT NUMBER

1

FURNITURE NUMBER

FURNITURE NUMBER

1

NORTH ARROW

NORTH ARROW

1

DIMENSION TARGET

DIMENSION TARGET

1

FINISH TAG

FINISH TAG

1

SP101

1

EXTERIOR ELEVATION MARKER

1

A101

1

INTERIOR ELEVATION MARKER

1

SIM

A101

SECTION MARKER

1

SIM

A101

SECTION / DETAIL

1

VIEW NAME

SCALE: 1/8" = 1'-0"

VIEW LABEL

X

KEYNOTE & WASHROOM ACCESSORIES NUMBER

W1

WALL TAG

LEVEL TARGET

0

COLUMN GRID LABEL

101

ROOM NAME

101

ROOM NAME & NUMBER

1

REVISION NUMBER

REVISION NUMBER

1

DOOR NUMBER

DOOR NUMBER

1

MISCELLANEOUS EQUIPMENT NUMBER

MISCELLANEOUS EQUIPMENT NUMBER

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KITCHEN EQUIPMENT NUMBER

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FURNITURE NUMBER

FURNITURE NUMBER

1

NORTH ARROW

NORTH ARROW

1

DIMENSION TARGET

DIMENSION TARGET

1

FINISH TAG

FINISH TAG

1

SP101

1

EXTERIOR ELEVATION MARKER

1

A101

1

INTERIOR ELEVATION MARKER

1

SIM

A101

SECTION MARKER

1

SIM

A101

SECTION / DETAIL

1

VIEW NAME

SCALE: 1/8" = 1'-0"

VIEW LABEL

X

KEYNOTE & WASHROOM ACCESSORIES NUMBER

W1

WALL TAG

LEVEL TARGET

0

COLUMN GRID LABEL

101

ROOM NAME

101

ROOM NAME & NUMBER

1

REVISION NUMBER

REVISION NUMBER

1

DOOR NUMBER

DOOR NUMBER

1

MISCELLANEOUS EQUIPMENT NUMBER

MISCELLANEOUS EQUIPMENT NUMBER

1

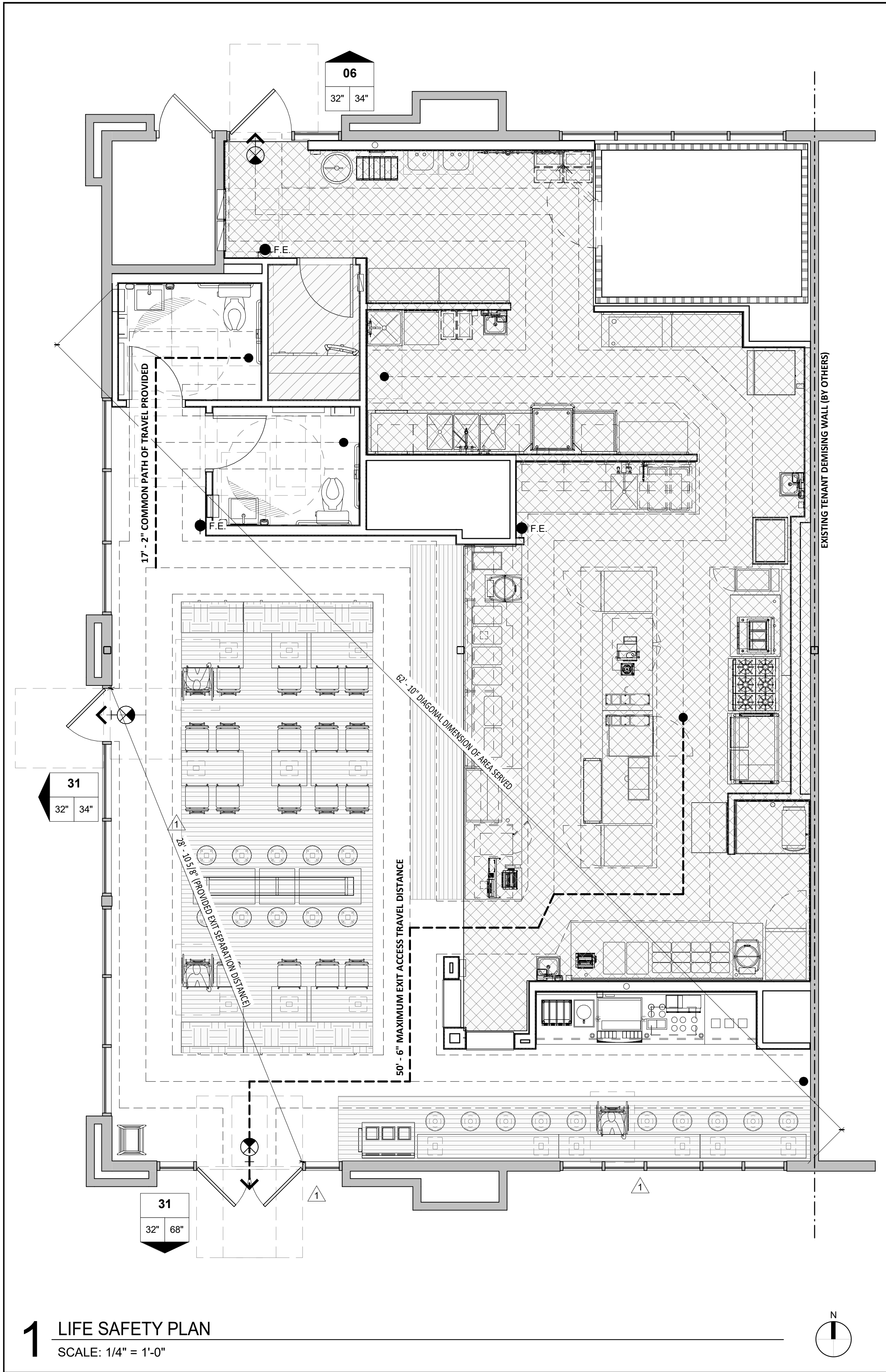
KITCHEN EQUIPMENT NUMBER

KITCHEN EQUIPMENT NUMBER

1

FURNITURE NUMBER

FURNITURE NUMBER



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

ABBREVIATIONS											
(E)	EXISTING CONSTRUCTION	EL	ELEVATION (VERTICAL HEIGHT)	HES	TENANT'S HVAC EQUIPMENT SUPPLIER	MSS	MUSIC SYSTEMS SUPPLIER	SPS	SODA POP SUPPLIER	THS	TENANT'S HARDWARE SUPPLIER
(N)	NEW CONSTRUCTION					NIC	NOT IN CONTRACT	SS	SUPPORT SIGNAGE	TSS	TENANT'S SMART SAFE SUPPLIER
@	AT	ELEC	ELECTRIC(AL)	HS	HOOD SUPPLIER	NO	NUMBER	T	TENANT	TL5	TENANT'S LIGHT/LAMP SUPPLIER
AFF	ABOVE FINISH FLOOR	ELEV	ELEVATION	HVAC	HEATING AND VENTILATING	OC	ON CENTER	TAB	TENANT'S TEST & BALLANCE VENDOR	TSV	TENANT'S SIGN VENDOR
ARCH	ARCHITECT(URAL)	EQ	EQUAL	ICP	INITIAL COST PROJECTION	OSB	ORIENTED STRAND BOARD	TMB	TENANT'S MENU BOARD SUPPLIER	TYP	TYPICAL
ASS	ALARM SYSTEM SUPPLIER	EXT	EXTERIOR	INT	INTERIOR	PDC	PROTECT DURING CONSTRUCTION	TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL	UNO	UNLESS NOTED OTHERWISE
BD	BOARD	FC	FOR CONSTRUCTION	KES	KITCHEN EQUIPMENT SUPPLIER	POS	POINT OF SALE PREPARATION	TCC	TENANT'S CABLING CONTRACTOR	UPS	UNINTERRUPTED POWER SUPPLY
BLDG	BUILDING	FRP	FIBERGLASS REINFORCED PANEL								
CMU	CONCRETE MASONRY UNIT			MAX	MAXIMUM					VIF	VERIFY IN FIELD
CO2	CO2 SUPPLIER	FRT	FIRE RETARDANT-TREATED	MECH	MECHANICAL	QT	QUARRY TILE	TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER	WCS	TENANT'S WALK-IN COOLER SUPPLIER
CO2AS	CO2 ALARM SUPPLIER	GA	Gauge	MFR	MANUFACTURER	R	RADIUS			WHS	WATER HEATER SUPPLIER
DIM	DIMENSION(S)	GALV	GALVANIZED	MIN	MINIMUM	RTU	ROOF TOP UNITS				
EA	EACH	GC	GENERAL CONTRACTOR	MISC	MISCELLANEOUS						

- LIFE SAFETY GENERAL NOTES**
- A. LIFE SAFETY SYSTEMS SHALL BE DESIGNED PER APPLICABLE FIRE PREVENTION CODE, ORDINANCE OR LAW.
- B. POST "NO PARKING - FIRE LANE" SIGNS ALONG APPROVED VEHICULAR ACCESS ROADS. COORDINATE LOCATIONS WITH LOCAL AUTHORITY HAVING JURISDICTION.
- C. AN ALL WEATHER FIRE ACCESS ROAD SHALL BE IN PLACE BEFORE ANY COMBUSTIBLE MATERIALS ARE PLACED ON SITE. COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION.
- D. FIRE APPARATUS ACCESS ROADS SHALL BE UNOBSTRUCTED. ACCESS GATES SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE IN COMPLIANCE WITH O.S.H.A. GUIDELINES.
- E. COMMERCIAL DUMPSTERS OR CONTAINERS WITH A CAPACITY OF ONE AND A HALF CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN FIVE FEET OF COMBUSTIBLE WALLS OR OPENINGS, UNLESS THESE ARE PROTECTED BY AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM.
- F. BUILDING ADDRESS NUMBERS SHALL BE PROVIDED AT THE FRONT OF THE TENANT SPACE AND SHALL BE VISIBLE AND LEGIBLE FROM THE PUBLIC RIGHT-OF-WAY AND A MINIMUM OF 6" HIGH. NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
- G. THE SUITE ADDRESS SHALL BE POSTED ON THE BUILDING WHERE IT IS CLEARLY VISIBLE FROM THE FIRE LANE. THE SUITE ADDRESS MUST BE POSTED IN NUMBERS THAT ARE A MINIMUM OF 4" TALL, ARE OF CONTRASTING COLOR WITH THE BACKGROUND ON WHICH THEY ARE MOUNTED AND WILL BE LOCATED SUCH THAT THEY ARE READILY VISIBLE DURING THE NIGHTTIME HOURS.
- H. THE ADDRESS SHALL BE PERMANENTLY POSTED ON UTILITY SERVICE DISCONNECTS IN NUMBERS A MINIMUM OF 1" TALL AND ON THE SERVICE DOOR IN NUMBERS A MINIMUM OF 4" TALL.
- I. A KNOX BOX IS TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. VERIFY WITH THE LOCAL AUTHORITY THIS REQUIREMENT AND COORDINATE LOCATION AS REQUIRED.
- J. COMPLETE PLANS AND SPECIFICATIONS FOR THE FIRE ALARM SYSTEMS, FIRE-EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND WET AND DRY STANDPIPES, HALON SYSTEMS AND OTHER SPECIAL TYPES OF AUTOMATIC FIRE-EXTINGUISHING SYSTEMS AND OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES SHALL BE SUBMITTED TO AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- K. ENGINEERED AUTOMATIC FIRE SPRINKLER SYSTEM PLANS, CALCULATIONS AND SPECIFICATIONS SHALL BE DESIGNED BY AN APPROVED INSTALLER AND SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ANY WORK BEING COMPLETED TO THE SYSTEM.
- L. ENGINEERED AUTOMATIC FIRE ALARM AND DETECTION SYSTEM PLANS, CALCULATIONS AND SPECIFICATIONS SHALL BE DESIGNED BY AN APPROVED INSTALLER AND SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ANY WORK BEING COMPLETED TO THE SYSTEM.
- M. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK AS REQUIRED TO MEET APPLICABLE CODES, ORDINANCES AND LAWS.
- N. THE FIRE SPRINKLER SYSTEM SHALL BE SERVED BY A MONITORING METHOD AS REQUIRED BY THE APPLICABLE CODE, ORDINANCE OR LAW.
- O. THE INSTALLATION AND MODIFICATION OF THE FIRE SUPPRESSION SYSTEM, INCLUDING ANSUL SYSTEM, SHALL COMPLY WITH THE BUILDING CODE AND N.F.P.A. MODIFICATIONS TO THE FIRE SUPPRESSION SYSTEM WILL BE PROVIDED, PERMITTED, INSTALLED AND INSPECTED UNDER A SEPARATE DEFERRED PERMIT APPLICATION.
- P. THE INSPECTION, HYDROSTATIC TESTING AND FLUSHING OF THE AUTOMATIC FIRE SPRINKLER SYSTEM AND/OR FIRE HYDRANTS SHALL BE WITNESSED BY THE PROPER FIRE DEPARTMENT REPRESENTATIVE AND NO UNDERGROUND PIPING SHALL BE COVERED OR HIDDEN FROM VIEW UNTIL THE PROPER FIRE DEPARTMENT REPRESENTATIVE HAS BEEN NOTIFIED AND GIVEN NO LESS THAN 48 HOURS IN WHICH TO INSPECT SUCH INSTALLATIONS.
- Q. GENERAL CONTRACTOR TO FIELD VERIFY CONDITION OF EXISTING SPRINKLER SYSTEM PRIOR TO THE START OF SELECTIVE DEMOLITION. IF ITEMS ARE MISSING OR IN POOR REPAIR, GENERAL CONTRACTOR IS TO NOTIFY THE ARCHITECT AND CLIENT IMMEDIATELY.
- R. FIRE ALARM SYSTEMS SHALL BE DESIGNATED AS CLASS "A" SYSTEMS.
- S. GENERAL CONTRACTOR SHALL CONTACT THE LANDLORD DURING THE BIDDING PHASE OF THE PROJECT FOR ANY REQUIREMENTS FOR THE FIRE ALARM SYSTEMS. THESE SYSTEMS, IF REQUIRED, SHALL BE INCLUDED IN THE BID AND CONSTRUCTION FOR THIS PROJECT.
- T. REQUIRED EGRESS DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.
- U. EXITS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH LIGHTS HAVING AN INTENSITY OF NOT LESS THAN 11.0 LUX AT FLOOR LEVEL, OR AS DIRECTED BY LOCAL CODE.
- V. EXIT SIGNS TO BE PROVIDED AND INSTALLED AS REQUIRED BY APPLICABLE CODES, ORDINANCES AND LAWS.
- W. PROVIDE APPROVED EXITING ILLUMINATION AND ILLUMINATED EXIT SIGNS WHICH ARE POWERED FROM SEPARATE CIRCUITS AND COMPLY WITH THE BUILDING CODE.
- X. ANY RATED WALL ASSEMBLIES AND/OR FLOOR/CEILING ASSEMBLIES LOCATED IN AN ATTIC SPACE OR IN A CONCEALED SPACE SHALL BE IDENTIFIED WITH PERMANENT SIGNAGE OR STENCILING. SUCH IDENTIFICATION SHALL BE LOCATED WITHIN 15'-0" OF THE END OF THE WALL AND AT INTERVALS NOT EXCEEDING 30'-0". LETTERING MUST BE NOT LESS THAN 3" IN HEIGHT WITH A MINIMUM 3/8" STROKE. IN CONTRASTING COLOR. INDICATE THE TYPE AND RATING OF THE CONSTRUCTION OR AS REQUIRED BY LOCAL CODE.
- Y. OCCUPANT LOAD SIGN WITH MINIMUM 1" LETTERS AND NUMBERS SHALL BE POSTED NEAR MAIN EXIT.
- Z. FIRE DAMPERS SHALL BE PROVIDED WHERE AIR DUCTS PENETRATE ANY FIRE RATED ASSEMBLIES.
- AA. EXIT LIGHTING AND SIGNS SHALL HAVE 6" HIGH LETTERING IN ACCORDANCE WITH LOCAL CODES. PROVIDE LOW LEVEL EXIT SIGNS PER CODE REQUIREMENTS.
- BB. FIRE DEPARTMENT FINAL INSPECTION REQUIRED.
- CC. 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.
- DD. FIRE EXTINGUISHER NOTES
- a. PROVIDE AND INSTALL FIRE EXTINGUISHERS AS DIRECTED BY AUTHORITY HAVING JURISDICTION. EXTINGUISHERS IN BACK OF HOUSE AREAS MAY BE IN BRACKETS. PUBLIC AREAS ARE TO BE ENCLOSED IN RECESSED CABINETS, PAINTED TO MATCH ADJACENT WALL FINISH.
- b. PROVIDE 'K' TYPE FIRE EXTINGUISHER IN KITCHEN AREAS, WITHIN 30'-0" OF TRAVEL FROM ANY POINT WITHIN THE KITCHEN OR FOOD PREPARATION AREAS. VERIFY INSTALLATION LOCATIONS WITH LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.
- c. 5 LB. 'ABC' FIRE EXTINGUISHERS ARE REQUIRED WITHIN 75'-0" OF TRAVEL FROM ANY POINT IN PUBLIC AREAS. THEY MUST BE MOUNTED CONSPICUOUSLY, PREFERABLE ALONG NORMAL TRAVEL PATHS AND EXIT WAYS. VERIFY INSTALLATION LOCATIONS WITH LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.

CODE ANALYSIS

APPLICABLE CODES AND REGULATIONS

*INCLUDES STATE AND LOCAL PROVISIONS TO THE BUILDING CODE	
BUILDING CODE:	2018 NORTH CAROLINA STATE BUILDING CODE
MECHANICAL CODE:	2018 NORTH CAROLINA STATE MECHANICAL CODE
PLUMBING CODE:	2018 NORTH CAROLINA STATE PLUMBING CODE
ENERGY CODE:	2018 NORTH CAROLINA STATE ENERGY CODE
FUEL GAS CODE:	2018 NORTH CAROLINA STATE FUEL GAS CODE
ELECTRICAL CODE:	2020 NATIONAL ELECTRICAL CODE W/ LOCAL AMENDMENTS
FIRE CODE:	2018 NORTH CAROLINA STATE FIRE CODE
FOOD CODE:	2017 FDA FOOD CODE
ACCESSIBILITY CODE(S):	ICC A117.1-2017 ACCESSIBLE AND USABLE BUILDINGS

BASIS OF DESIGN

CONSTRUCTION TYPE	TYPE V-B
OCCUPANCY TYPE	MIXED USE (A-2, M) - NON-SEPARATED
AREA FACTOR	SPRINKLERED, SINGLE STORY
BUILDING AREA	6,000 SQ FT
OCCUPANT LOAD	68 OCC.

CH3 - USE AND OCCUPANCY CLASSIFICATION

OCCUPANCY GROUP & FUNCTION	GENERAL DESCRIPTION OF SITE
A-2; RESTAURANT	FIRST TENANT WITHIN EXISTING DEMISED SHELL FOR RESTAURANT T.I.

CH5 - GENERAL BUILDING HEIGHTS & AREAS

OCCUPANCY CLASSIFICATION	A-2
ALLOWABLE BUILDING HEIGHT	60'-0"
PROPOSED BUILDING HEIGHT	22'-0"
At = BASIC ALLOWABLE AREA - BASED ON OCCUPANCY	At = 24,000 SQ FT.
PROPOSED TENANT AREA	2,367 SQ. FT.
OCCUPANCY SEPARATION	NON-SEPARATED

CH6 - TYPES OF CONSTRUCTION

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS	
BUILDING ELEMENT	FIRE RATING REQUIRED
PRIMARY STRUCTURAL FRAME	0 HOUR (UNCHANGED)
BEARING WALLS	EXTERIOR 0 HOUR (UNCHANGED)
NON-BEARING WALLS	EXTERIOR 0 HOUR (UNCHANGED)
NON-BEARING WALLS AND PARTITIONS	INTERIOR 0 HOUR (UNCHANGED)
FLOOR CONSTRUCTION	0 HOUR (UNCHANGED)
ROOF CONSTRUCTION	0 HOUR (UNCHANGED)

CH8 - INTERIOR FINISHES

TYPE OF SPACE	FINISH CLASSIFICATION
INTERIOR EXIT PASSAGEWAYS	B
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRS	B
ROOMS AND ENCLOSED SPACES	C

CH9 - FIRE PROTECTION & LIFE SAFETY

SPRINKLER SYSTEM:	SPRINKLERED
COMMENTS:	AUTOMATIC SPRINKLER SYSTEM REQUIRED PER NFPA 13
FIRE ALARM & DETECTION SYSTEM:	INSTALL, AS REQUIRED FOR FIRE SPRINKLERS
FIRE EXTINGUISHERS:	INSTALL, AS REQUIRED

CH10 - MEANS OF EGRESS

FUNCTION OF SPACE	SQUARE FOOTAGE	LOAD FACTOR	OCCUPANT LOAD
STANDING SPACE	60	5 SF (NET)	12
FIXED SEATING	40 SEATS	1 SEAT/OCC.	40
FIXED SEATING - BOOTHS	260"	24" BOOTH LENGTH/OCC..	10
KITCHEN (COMM.)	944	200 SF (GROSS)	5
BUSINESS AREA	40	100 SF (GROSS)	1
POSTED OCCUPANT LOAD: 68			

RESTAURANT SEATING COUNT

INTERIOR SEATING COUNT	50
EXTERIOR (PATIO) SEATING COUNT	20
TOTAL SEATING COUNT	70

EGRESS REQUIREMENTS

EXIT DOORS	FACTOR	OCC. LOAD	REQ'D WIDTH	PROP. WIDTH
EXITS PER OCC. LOAD	0.2	68	13.6"	128"
DIAGONAL DISTANCE OF AREA SERVED			62'-10"	
REQUIRED EXIT SEPARATION DISTANCE			21'-0"	
MAXIMUM TRAVEL DISTANCE ALLOWED			250'-0"	
MAXIMUM TRAVEL DISTANCE PROVIDED			50'-6"	
MAXIMUM COMMON PATH OF TRAVEL ALLOWED			75'-0"	
MAXIMUM COMMON PATH OF TRAVEL PROVIDED			17'-2"	
MINIMUM CLEAR EXIT WIDTH ALLOWED			36"	
CLEAR EXIT WIDTH PROVIDED			36"	

CH29 - PLUMBING SYSTEMS

PLUMBING FIXTURE REQUIREMENTS - BASED ON OCCUPANT LOAD = 68 OCC.

USE GROUP		REQ'D WC	PROP. WC	PROP. URINALS	REQ'D LAVS	PROP. LAVS
A-2	NON-GENDER SPECIFIC *	2	2	-	2	2
	DRINKING FOUNTAINS **	0			0	
	SERVICE SINK	1			1	

* WHERE THE CODE REQUIRES ONLY ONE TOILET FACILITY FOR EACH SEX, TWO UNSEX FACILITIES MAY BE SUBSTITUTED FOR SEPARATE SEX FACILITIES (403.2 2018 NORTH CAROLINA STATE PLUMBING CODE)

** WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED (410.4 2018 NORTH CAROLINA STATE PLUMBING CODE)

ENERGY CODE

CLIMATE ZONE/ COUNTY:	3A / MECKLENBURG COUNTY
-----------------------	-------------------------

LIFE SAFETY LEGEND

FUNCTION OF SPACE

●	MAXIMUM EXIT ACCESS TRAVEL DISTANCE (MINIMUM WIDTH AS INDICATED IN CODE ANALYSIS)
0' - 0" - (0' - 0")	EXIT ACCESS TRAVEL DISTANCE (COMMON PATH IF APPLIES)
● F.E.	PROPOSED FIRE EXTINGUISHER LOCATION - GENERAL CONTRACTOR TO VERIFY THE EXACT TYPE, LOCATION(S) AND QUANTITIES WITH THE AUTHORITIES HAVING JURISDICTION PRIOR TO ORDERING AND INSTALLING FIRE EXTINGUISHERS
⊗	WALL MOUNTED EXIT SIGN

EGRESS AT DOORS

00
0.0" 0.0"

EGRESS BREAKDOWN:
OCCUPANTS SERVED
EXIT WIDTH REQUIRED
EXIT WIDTH PROVIDED

FUNCTION OF SPACE

ASSEMBLY, UNCONCENTRATED (STANDING ONLY)	KITCHENS, COMMERCIAL AREA
ASSEMBLY AREA WITH FIXED SEATS	BUSINESS AREA
ASSEMBLY AREA WITH FIXED SEATS (BOOTHS)	UNOCCUPIED AREAS (RESTROOMS, UNOCCUPIABLE SPACES, MEANS OF EGRESS)

CONSULTANT:

WILKUS ARCHITECTS

CHIPOTLE MEXICAN GRILL, INC.

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182966
COLUMBUS, OH 43218-2966
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PROJECT INFORMATION:

STORE NO.: #5421

MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:

WILKUS ARCHITECTS, P.A.
REGISTERED ARCHITECT
NORTH CAROLINA
HOPKINS, MN
14006

October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115
DRAWN BY TRC
CHECKED BY DLA

ISSUE RECORD:

05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET

REVISIONS:

1	07.08.2024	COUNTY COMMENTS
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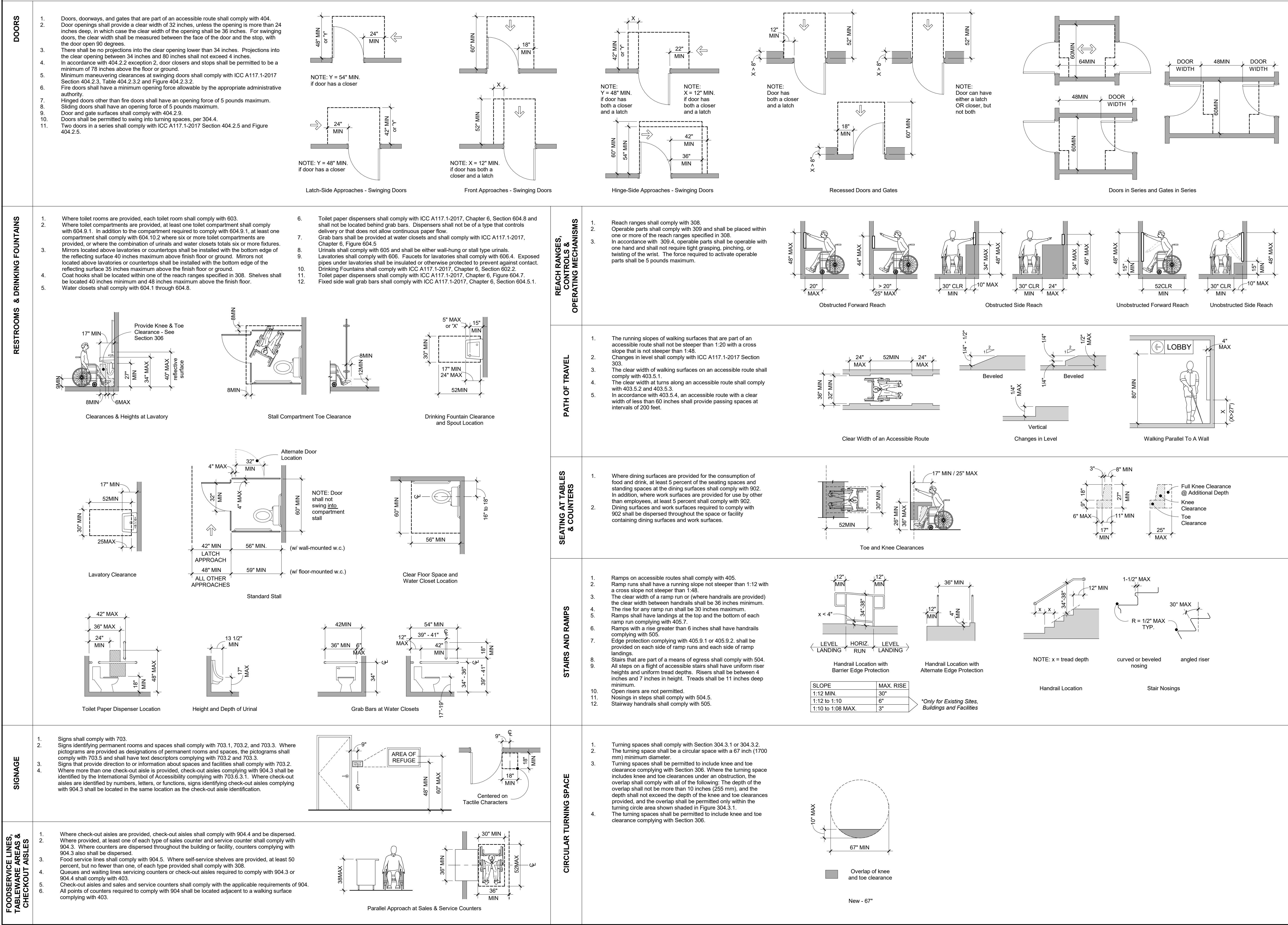
CODE ANALYSIS - LIFE SAFETY PLAN

SHEET NUMBER:

G001

ICC A117.1-2017 : ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

ALL INTERIOR CONSTRUCTION WITHIN THE SCOPE OF THIS PROJECT IS REQUIRED TO BE ACCESSIBLE AS SET FORTH IN THE "ICC A117.1-2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. SECTIONS INDICATED ON THIS SHEET REFERENCE THE "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, UNLESS NOTED OTHERWISE.



CONSULTANT:

WILKUS ARCHITECTS

CLIENT:

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DRAWN BY TRC
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ISSUE RECORD:

05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET

REVISIONS:

TITLE:

ACCESSIBILITY STANDARDS

SHEET NUMBER:

G002

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Chipotle Mexican Grill - "Mallard Creek Church Charlotte"
Address: W. Mallard Creek Church Rd and Senator Royall Dr., Charlotte, NC Zip Code 28262
Owner/Authorized Agent: Chipotle Mexican Grill Phone # (919) 434 - 7416 E-Mail mgalmer@chipotle.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☒ City Charlotte ☒ County Mecklenburg ☐ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Wilkus Architects, P.A.	Matt Wilkus	14006	(952) 843-7955	dw@wilkusarch.com
Civil	N/A	N/A	N/A	N/A	N/A
Electrical	National Engineering	Richard T. Jones	031346	(814) 328-2024	rdj@nationalengineering.com
Fire Alarm	N/A	N/A	N/A	N/A	N/A
Plumbing	National Engineering	Richard T. Jones	031346	(814) 328-2024	rdj@nationalengineering.com
Mechanical	National Engineering	Richard T. Jones	031346	(814) 328-2024	rdj@nationalengineering.com
Sprinkler-Standpipe	N/A	N/A	N/A	N/A	N/A
Structural	VAA Engineering	Keith W. Jacobson	034504	(507) 966-6256	tmshtr@vaeseng.com
Retaining Walls >5' High	N/A	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A	N/A

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

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) Proposed 2024 CURRENT OCCUPANCY(S) (Ch. 3): Vacant
RENOVATED: (date) N/A PROPOSED OCCUPANCY(S) (Ch. 3): A-2 (Assembly) Restaurant

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 ☐ Level II ☐ Level III
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.)

2018 NC Administrative Code and Policies

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor	N/A	N/A	N/A
2 nd Floor	N/A	N/A	N/A
Mezzanine	N/A	N/A	N/A
1 st Floor	6,000 SF	0	6,000 SF
Basement	N/A	N/A	N/A
TOTAL	6,000 SF	0	6,000 SF

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 ☐ I-2 ☐ I-3 Condition ☐ 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 ☐ N/A

Accessory Occupancy Classification(s):

Incidental Uses (Table 509): N/A

Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): N/A

Mixed Occupancy: ☐ No ☒ Yes Separation: N/A 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 for 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.

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

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \dots \leq 1.00$$

2018 NC Administrative Code and Policies

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			TOTAL # ACCESSIBLE UNITS PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132" ACCESS	8' ACCESS AISLE	
N/A						
TOTAL						

PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS	
SPACE	EXIST'G	MALE	FEMALE	UNSEX		MALE	FEMALE	UNSEX	7/19S	REGULAR	ACCESSIBLE
	NEW	1	1	0	N/A	1	1	0	N/A	*See Below	*See Below
	REQ'D	1	1	0	N/A	1	1	0	N/A	N/A	N/A

SPECIAL APPROVALS

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

Refer To Shell Drawings

Exception: Per 2018 NCPC section 410.4
Where restaurants, night clubs, taverns or bars provide drinking water in a container free of charge, drinking fountains shall not be required in those establishments

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STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{1,3}
1	A-2 (RESTAURANT)	2,367 SF	6,000 SF	N/A	6,000 SF
1	TBD	3,633 SF	6,000 SF	N/A	6,000 SF

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 = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 = \text{_____} (\%)$

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).

⁴ The maximum area of open parking garages must comply with Table 406.5.4.

⁵ 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	40'-0"	22'-0"	504.3 & 504.4
Building Height in Stories (Table 504.4) ³	1	1	504.3 & 504.4

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

2018 NC Administrative Code and Policies

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: Interior Tenant Build-Out Only, Refer Shell Drawings Mecklenburg Project# 436593
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floors over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Floors slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

2018 NC Administrative Code and Policies

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (W/ REDUCTION)				
Structural Frame, including columns, girders, trusses		0 HR	0 HR				
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction including supporting beams and joists							
Floor Ceiling Assembly		N/A	N/A				
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant Dwelling Unit							
Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

2018 NC Administrative Code and Policies

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Seismic (I_e) 1.0
Live Loads: Roof 20 psf
Mezzanine - psf
Floor - psf
Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7)
Exposure Category B

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5): ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration 19.1 %g 8.0 %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 2000 psf
Pile size, type, and capacity NA

2018 NC Administrative Code and Policies

CONSULTANT:



CLIENT:



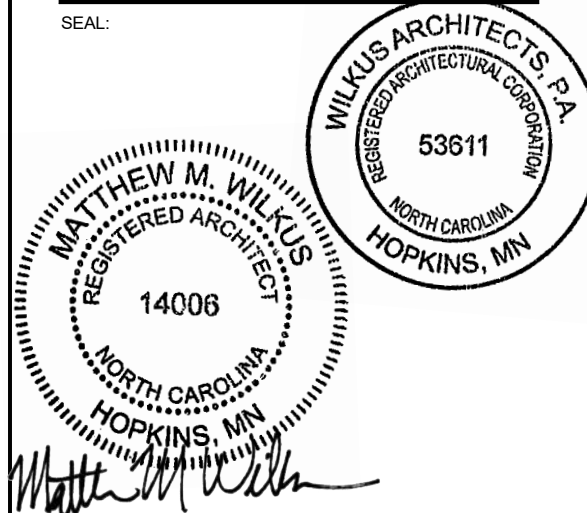
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PROJECT INFORMATION:

STORE NO.: #9421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115

DRAWN BY TRC

CHECKED BY DLA

ISSUE RECORD:

05/24/2024 PERMIT SET

07/10/24 BID SET

09/23/24 CONSTRUCTION SET

REVISIONS:

1 07.08.2024 COUNTY COMMENTS

TITLE:

APPENDIX B

SHEET NUMBER:

G003

2018 NC Administrative Code and Policies

MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb:	REFER TO MECHANICAL SHEETS
summer dry bulb:	

Interior design conditions
 winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System

Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____

Boiler
Size category. If oversized, state reason: _____

Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

2018 NC Administrative Code and Policies

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting schedule (each fixture type)

lamp type required 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	REFER TO SHEET E100 FOR LIGHTING SCHEDULE
---	---

Additional Efficiency Package Options
(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

2018 NC Administrative Code and Policies

CONSULTANT: _____



CLIENT:



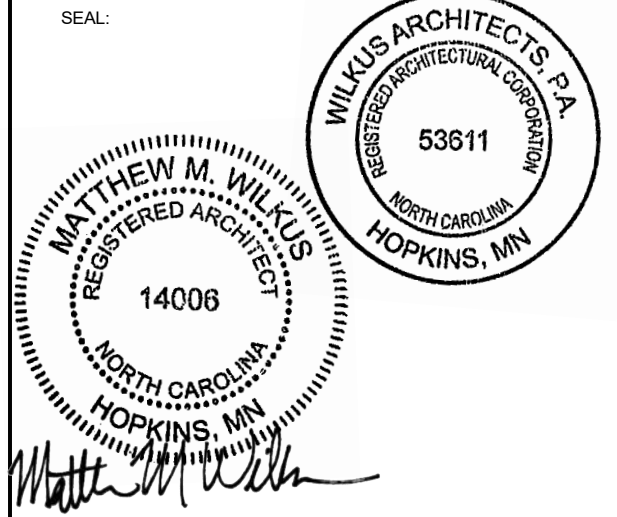
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PROJECT INFORMATION:

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3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115
DRAWN BY TRC
CHECKED BY DLA

ISSUE RECORD:	
05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET

REVISIONS:

TITLE:

APPENDIX B

SHEET NUMBER:

G004

2.1 Materials: A. Resinous Flooring: Manufacturer: aiflooring - Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627 2.1 Flooring System: A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance. - TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating. - TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat. - TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance. 2.3 Product Substitutions: A. Substitutions: No substitutions permitted. 2.4 Source Quality: A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer. 3.1 Manufacturer's Instructions: A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions. 3.2 Examination: A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions. - Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials. 3.3 Preparation: A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation. B. Surface Preparation: - Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding. - Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations. - Prepare and clean control joints well and fill with an appropriate elastomeric. 3.4 Installation: A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer. - Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations. - Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application. - Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling. B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris. 3.5 Protection: A. Protection: Protect installed product and finish surfaces from damage during construction.	3.1 Installation A. Surface Conditions - Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected. - Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above. - Prior to application, verify that floor surfaces are free of construction latents. B. Application The following RetroPlate process will be followed as listed below: A concrete grinding machine must be used. Please proceed accordingly. The process is as follows: - Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab. - Clean the floor using automatic scrubber or comparable. - Grind floor using 200 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes. - Grind floor using 400 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - Clean and remove any excess RetroPlate. Let the floor dry overnight. - Continue the polishing process using 800 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate. - Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad. - Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard. C. Start any of the floor finish applications in presence of manufacturer's technical representative. D. Sealing, Hardening and Polishing of Concrete Surface - Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin. - Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application. - Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample. - Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen. - Polish to a level 2 shine. E. Workmanship and Cleaning - The premises shall be kept clean and free of debris at all times. - Remove spatter from adjoining surfaces, as necessary. - Repair damages to surface caused by cleaning operations. - Remove debris from jobsite - Dispose of materials in separate, closed containers in accordance with local regulations.	H. Accessories - Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated. - Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer. - Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010. - Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt. - Cleaning agents: - Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners." - ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner." - Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces. 3.1 Installation A. Preparation - Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations. - Lay concrete masonry units dry. - Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed - Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set. B. Installation - General: - Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown. - Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed. - Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements. C. Laying Masonry - Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jamps and other locations. - Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work. - Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jamps. - Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths. - Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths. - Compress and cut joints flush for masonry walls below grade or covered by other materials. - Tool joints in all exposed masonry work to a concave joint. - Provide interlocking masonry bond in each course at corners and intersecting walls. - As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items. - Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout. - Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members. - Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services. - Install anchors, plates and related work built into masonry work. - Install reinforcing steel and concrete fill where indicated. Comply with drawing details. - Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows: - In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings. - Lap reinforcement a full width at the corners and at intersections or use special fabricated sections. - Fully embed side rods in mortar. - Anchoring masonry work: Provide anchoring devices of the type indicated or required. - Provide vertical expansion, control and isolation joints in masonry where indicated. - When not indicated, at maximum 30'-0" on center. - Locate control joints at points of natural weakness in masonry and acceptable to Architect. - Joint sealant color shall match masonry materials sealed. - Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar. 14. Flashing and weeps: - Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction. - Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation. - Flexible Membrane Flashing: - Install membrane flashing in accordance with manufacturer's installation instructions. - Fully adhere flashing to substrate. - Lap flashing joints a minimum of 6", seal and roll with a hand roller. - Trim bottom edge 1/4" back from exposed face of masonry. - Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic. - Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit. - Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant. D. Masonry Veneer Walls: - Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing. - Space ties 16" on center vertically and horizontally. - Maintain veneer wall cavity free of mortar droppings during masonry installation. E. Parging: - Dampen masonry walls prior to parging. - Scarify each parging coat to ensure full bond to subsequent coat. - Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm). - Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter). F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following: - Draw ACMU from more than one pallet at a time during installation. G. Reinforced Concrete Masonry - Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-A and 14-2 recommendations. - Comply with drawing details for reinforcing steel size and spacing. - Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing. H. Repair, Pointing and Cleaning - In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges. - Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense. - Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable. - Presoak exposed masonry surfaces by saturating with water and flush off loose mortar
--	--	--

[illegible]

2.12

Formed Metal Fabrications - Sheet Metal

A. Closures, Trim, and Fill Panels:

1. Form Closures from type and thickness of metal indicated.

2. Conceal fasteners when possible.

3. Drill and tap holes for securing to other surfaces.

4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.

5. Miter or cope at corners and reinforce with bent metal plate. Form tight joints.

2.13

Materials

A. General: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.

B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gage min. thick base material.

C. Anchors, Clips, and Accessories: Use one of the following:

1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.

2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.

3. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A123/A123M Coating Grade 35

4. Interior locations: Carbon steel, zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.

5. Exterior Locations or in contact with Stainless Steel:

a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)

b. Nuts: Stainless steel; ASTM F594.

6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.

a. Type: Provide chemical or torque controlled expansion anchors.

b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.

7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads.

Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.

D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.

E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.

2.14

Finishes

A. Finishes, General: Comply with NAAAMP 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 indicated otherwise.

4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.

B. Galvanized Steel Finishes:

1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M

2. Color: As shown on the drawings.

3. Factory Prime: Apply shop primer to prepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1

4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

3.1

Examination:

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levels of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.

1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.

2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.

3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.

4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2

Installation:

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

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

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

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

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

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

3.3

Adjusting, Cleaning, and Protection:

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

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

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

SECTION 085619 - PASS-THRU WINDOW

1.1

General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:

1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.

2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.

4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.

6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.

7. ASTM C1048 - Heat-Treated Flat Glass-Kind HS, Kind F, and Uncoated Glass.

8. ASTM C1172 - Standard Specification for Laminated Glass-Flat Glass.

9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.

10. Aluminum Association AA DAF-45 - Designation and Identification for Aluminum Finishes.

B. Quality Assurance:

1. Manufacturer Qualifications: Minimum 5 years successful experience continuously manufacturing pass-thru windows.

2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.

3. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

a. Finish areas designated by Architect.

b. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.

c. Refinish mock-up area as required to produce acceptable work.

2.1

Materials:

A. Acceptable Manufacturers: Arch PM to verify required manufacturer per Tenant's assignment.

1. Quikserv; Toll Free: 1.800.388.8307; Email: sales@quikserv.com; Web: <https://www.quikserv.com/>

2. ReadyAccess; Toll Free: 1.800.621.5045; Email: ready@ready-access.com; Web: <https://www.ready-access.com>

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

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1.1

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

A. Standards: Materials and construction shall conform to the following:

1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."

2. ANSI A250.11-01 "Erection Instructions for Steel Frames."

3. SDI 122-99 "Installation for Standard Steel doors and Frames.

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

2.1

Materials:

A. Steel Doors:

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

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

B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.

1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.

2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.

C. Door and frame fabrication:

1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.

2. Punch frames and factory install rubber door silencers.

3. Provide minimum three anchors of suitable design for each jamb.

4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.

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

3.1

Installation:

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

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

SECTION 08413 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.1

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

1.2

Related Documents:

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

B. Standards: Materials and construction shall conform to the following:

1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."

1.3

Summary:

A. Section Includes:

1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.

a. Types of Kawneer Aluminum Storefront include:

(1) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set

(2) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

2. Kawneer Aluminum Entrances, glass and glazing, and components

a. Types of Kawneer Aluminum Entrances include:

(1) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.

3. Kawneer Tube for Feature Exterior Slat Wall

4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.

a. YKK

(1) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal

(2) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

b. Oldcastle

(1) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal

(2) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

c. US Aluminum

(1) Series FT601 - 2" x 6" nominal dimension; Thermal

(2) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

d. EFCO

(1) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal

(2) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal

e. Wausau

(1) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal

(2) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

1.4

Performance Requirements:

A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction;

1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.

a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000

b. Importance Factor: (1.00)

c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000

B. Storefront System Performance Requirements:

1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.

2. Air Infiltration:

a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft. sq. at a static air pressure differential of 6.24 psf.

b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.

3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 6 psf as defined in AAMA 501.

4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of 1/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.

5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:

a. Glass to Exterior - 0.47 (low-e)

6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:

a. Glass to Exterior - 70 frame and 69 glass (low-e)

7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:

a. Glass to Exterior - 38 (STC) and 31 (OITC)

2.5

Submittals:

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

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

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

1.6

Quality Assurance

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

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

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

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.

1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7

Project Conditions:

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

1.8

Warranty

A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.

1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

2.1

Manufacturers:

A. Manufacturer: Kawneer Company Inc., Contact: Doug Hess, Phone: 317-771-9265; email:doug.hess@arconic.com

1. Basis-of-Design Product Storefront Framing:

a. Trifab 601T (thermal) Storefront System

i. 2" x 6" System Dimensions

ii. Glass: Exterior (Center-Set)

b. Trifab 451T (thermal) Storefront System

i. 2" x 4-1/2" System Dimensions

ii. Glass: Exterior (Front-Set)

2. Basis-of-Design Product Storefront Entrances:

a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10"

b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.

c. Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.

d. Provide adjustable glass jacks to help center the glass in the door opening.

3. Basis-of-Design Product Feature Exterior Slat Wall:

a. Kawneer Tube #027881 (1" x 3"), capped at top and bottom

i. Alternate Exterior Slat Wall only when approved by Arch PM and Chipotle DM.

1. Architectural Fabrication

B. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.

1. YKK

a. YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal

b. YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

2. Oldcastle

a. Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal

b. Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

3. US Aluminum

a. Series FT601 - 2" x 6" nominal dimension; Thermal

b. Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

4. EFCO

a. Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal

b. Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal

5. Wausau

a. TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal

b. TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

2.2

Materials:

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

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

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

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

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

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

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

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

2.3

Storefront Framing System:

A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.

1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

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

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

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

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

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

2.4

Glazing Systems:

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

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

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

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

E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:

1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.

a. Color: Black

2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.

a. Color: Matching structural sealant.

2.5

Entrance Door Systems:

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

2.6

Accessory Materials:

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

2.7

Storefront Framing Fabrication:

A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:

1. Profiles that are sharp, straight, and free of defects or deformations.

2. Accurately fit joints; make joints flush, hairline and weatherproof.

3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.

4. Physical and thermal isolation of glazing from framing members.

5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.

6. Provisions for field replacement of glazing.

7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

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

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

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

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

2.8

Storefront Entrance Door Fabrication:

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

B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.

1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.

2. Accurately fit and secure joints and corners. Make joints hairline in appearance.

3. Prepare components with internal reinforcement for door hardware.

4. Arrange fasteners and attachments to conceal from view.

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

2.9

Aluminum Finishes:

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

B. Factory Finishing:

1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)

2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM

a. YKK "Charcoal" UC99477, Superior Painted Finishes

b. All others to be verified with samples and submittals to Arch PM

2.10

Brake Metal Trim:

A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.

1. Show actual field measurements on shop drawings.

2. Differentiate between shop and field fabrication.

3. Indicate substrates and adjacent work with which the fabrications must be coordinated.

4. Include large-scale details of anchorages and connecting elements.

5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)

2.11

Formed Metal Fabrications - General:

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

B. 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.

G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind smooth, polish, and restore damaged finishes to required condition.

1. Ease exposed edges to small uniform radius.

2. Welded joints.

a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.

b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M

3. Brass/Bronze Brazed Joints:

a. Perform torch brazing in accordance with AWS C3.4M/C3.4

b. Perform induction brazing in accordance with AWS C3.5M/C3.5

c. Perform resistance brazing in accordance with AWS C3.9M/C3.9

H. Performance requirements;

1. Thermal Movements:

a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.

b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.

2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

CONSULTANT:	
 WILKUS ARCHITECTS	
CLIENT:	
CHIPOTLE MEXICAN GRILL, INC. PO BOX 182866 COLUMBUS, OH 43218-2566 TELEPHONE: (614) 318-2462 INTERNET: WWW.CHIPOTLE.COM	
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PROJECT INFORMATION:	
STORE NO.: #5421	MALLARD CREEK CHURCH CHARLOTTE 3005 STELFOX ST. CHARLOTTE, NC 28262
SEAL: Matthew M. Wilkus October 01, 2024 MATTHEW M. WILKUS LICENSE #14006 (EXPIRES 06/30/2025)	
PROJECT NO.	2024-0115
DRAWN BY	TRC
CHECKED BY	DLA
ISSUE RECORD:	
05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET
REVISIONS:	
TITLE:	ARCHITECTURAL SPECIFICATIONS
SHEET NUMBER:	G014

2.2 In-Line Side Sliding Automatic Window and Air Curtain

A. GC to use specification called out on storefornt details sheet and/or as directed by Tenant Arch PM.

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

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

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

- Service Opening: 19"W x 35"H
- Finish: Dark Bronze Anodized
- Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
- Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
 - Heated Air Curtain: Model: AA300 (no transom)
 - Ambient Air Curtain: Model: AA100 (no transom)
- Refer to exterior elevations (A300s) for direction of opening for ordering.

B. Alternate California Code Option

- ReadyAccess: Window 47'-1/2" W x 35'-4"H with double-split transom for air curtain and 10" and (2) sidelights at 28-1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
 - Service Opening: 28"W x 15-3/8"H, limited to meet CA code.
 - Ambient Air Curtain, AA100, and relay switch kit included with the West Coast Window package.

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

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

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

2.3 Electrical Requirements

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

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

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

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

3.1 Installation

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

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

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

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

2.1 Materials:

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

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

3.1 Installation

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

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

C. Mount hardware units at heights indicated in DHI "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGG guidelines for accessibility.

- Top Butts: 5 inches; top of butt from head of frame.
- Middle Butts: 3'-2", centerline from finish floor.
- Bottom Butts: 5 inches; finish floor to bottom of butt.
- Locks: centerline from finish floor per hardware schedule.
- Knobs: 3'-2", centerline from finish floor.
- Pulls: centerline from finish floor per hardware schedule.
- Pushes: centerline from finish floor per hardware schedule.

SECTION 08800 - GLAZING

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

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

B. Quality Assurance:

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

C. Warranty:

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

2.1 Materials:

- Glass:
 - Float Glass (FG): 1/4" thick clear float glass.
 - Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
 - Insulating Glass (IGL): 1" thick clear, low-e tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desiccated dual sealed air space; with the following characteristics:
 - Low-emissivity coating on #2 surface.
 - Visible Light Transmittance: 64% - 70%
 - Visible Light Reflectance - Outdoors: 9%-11%
 - Solar Energy Transmittance: 32%-34%
 - Solar Energy Reflectance-Outdoors: 30%-34%
 - U-Value - Winter Night: 0.29
 - U-value - Summer days: 0.28
 - Solar Heat Gain Coefficient: 0.25-0.39
 - Shading Coefficient: 0.43-0.45
 - Manufacturers/Products:
 - AGC/Comfort Ti-AC40, or similar to meet code
 - Sun Guard/SN-68, or similar to meet code
 - PPG/Solarban 60, or similar to meet code
 - Viracore/VE1-2M, or similar to meet code
- Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: GrayBlack or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
- Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

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

C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

- Preparation:
 - Field verify measurements and conditions of installation.
 - Examine all details. Provide proper fitting to details indicated.
 - Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.
- Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
 - Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).
- Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.
- Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattling or breakage.
- Protect glass from breakage during remaining construction. Do not remove non-permanent labels until final acceptance.

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

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

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

2.1 Materials:

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

B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.

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

C. Ceiling and Soffit metal framing/suspension systems:

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

D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.

- General use panels: Sheetrock Regular panels.
- Fire rated panels: Sheetrock Firecode Core panels.
- Water-resistant: panels: Sheetrock HUMITEK panels.

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

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

G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 2008 casing bead metal trim, No. 093 Control Joint.

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

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

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

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

3.1 Installation

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

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

C. Acoustical Treatment:

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

D. Finishing:

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

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

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

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

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

2.1 Materials:

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

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

- General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufacturer's recommendations:

- Walls (Steel Frame): Bungie head, fine thread, sharp point rust resistant drywall screw
- Walls (Walls Frame): Bungie head, coarse thread, sharp point rust resistant screw

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

3.1 Installation

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

B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.

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

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

SECTION 09330 - QUARRY TILE

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

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

2.1 Materials:

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

- Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" OT03
 - Entire Kitchen Area: Provide non-abrasive finish quarry tile.
 - Rest Rooms: Provide non-abrasive finish quarry tile.
 - Outside Corner Cove Base (Kitchen): HQC (L or R) 3565 5" x 6"
 - Inside Corner Cove Base: #QB-3565 1" x 5"
 - Bullnose Coveless Base: #Q-1665, 6" x 6".
 - Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6".

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

3.1 Installation

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

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

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

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

SECTION 09340 - CERAMIC TILE

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

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

2.1 Materials:

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

- Ceramic Tile:
 - Kitchen Tile, or as noted in plans, Series - Finish Line Glazed Ceramic Tile:
 - Color - White FL90, Semi-Gloss, Size - 4 x 16, Pattern - Stacked Bond
 - Accent Tile, Series - Color Wheel Glazed Ceramic
 - Color - Chipotle Brick Metallic 1.0 #9999710686, Size - 3 x 12, Pattern - Stacked Bond
 - Alternate Accent Tile only when approved by Arch PM and Chipotle DM
 - Series - Remedy, Color - Alchemy RD25, Size - 2 x 9, Pattern - Brickjoint Mosaic
 - Series - Marrazzi, Color - Artesen AT25, Size - 2 x 4, Pattern - Brickjoint Mosaic

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

- Grout:
 - Kitchen Tile or as noted in plans
 - Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
 - Accent Tile
 - Mapei, Series - Flexcolor CQ - Chocolate #07, 1/8" grout joints.

3.1 Installation

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

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

CONSULTANT:



CLIENT:



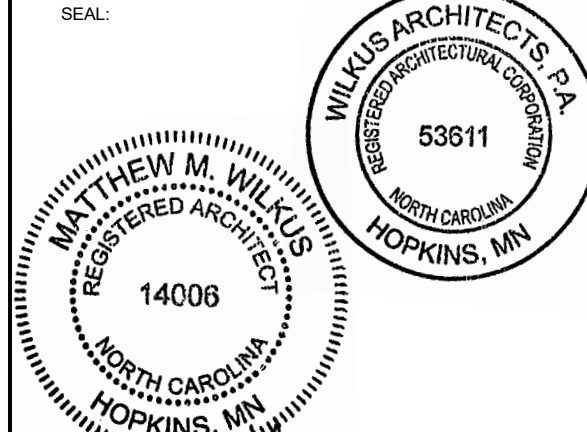
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PROJECT INFORMATION:

STORE NO.: #5421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

SECTION 09510 - SUSPENDED CEILING SYSTEMS

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

- A. Standards: Materials and installation shall conform to the following:
- CISCA "Acoustical Ceilings - Use and Practice."
 - ASTM C635.
 - ASTM C636.
- B. Related Sections:
- 09515 Cementitious Wood Fiber Acoustical Panels: Suspension system.

2.1 Materials:

- A. Manufacturer:
- USG Interiors, Inc., (800) 950-3839, www.usg.com
 - Pittcon Industries, (800) 637-7638, www.pittconindustries.com
- B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".
- C. Light Pocket: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
- Light pocket can have up to 6 week lead time and should be ordered as soon as possible.
 - Light pocket endcap should only be installed when the end of the cove is not against a wall.
- D. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories.
- Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching exposed grid.
 - Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees.
 - Hanger Wire: No. 12 SWG galvanized steel wire.
 - Heavy Duty "Tee" Grid System for use with Felt Baffle Ceiling System: USG Donn Brand DX/L with 15/16" wide face tees, color: black

3.1 Installation

- A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.
- B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".
- C. Install exposed Tee suspension systems with main tees nominally 12 ft long spaced 48 in O.C. and cross tees nominally 4 feet long spaced 24 in O.C.
- D. Install concealed Tee suspension systems with main tees nominally 12 ft long spaced 24 inches O.C. and cross tees nominally 2 ft long spaced 48 in O.C.
- E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.
- F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.
- G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

SECTION 09653 - RUBBER WALL BASE

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

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

2.1 Materials:

- A. Manufacturer: Johnsonite, Inc., (800) 899-8916, Internet: www.johnsonite.com
- Basis-of-Design Product Rubber Wall Base:
 - Resilient Rubber:
 - .125" (3.17 mm) Thickness
 - "Black" color
 - Straight (toeless) or coved as specified on finish plan
 - Inside and outside corners with 4" returns.
 - Alternate Wall Base only when approved by Arch PM and Chipotle DM.
 - Vinyl Wall Base
 - .125" (3.17 mm) Thickness
 - "Black" color
 - Straight (toeless) or coved as specified on finish plan
 - Inside and outside corners with 4" returns.
- C. Setting Adhesive:
- For porous surface applications: Johnsonite 960 Acrylic Cove Base Adhesive.
 - For non-porous surface applications: Johnsonite 946 Contact Bond Adhesive or polymer based alternative.

3.1 Installation:

- A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.
- B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in accordance with manufacturer's instructions.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

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

1.2 Related Sections:

- A. Section 05400 - Cold Formed Metal Framing
- B. Section 06210 - Finish Carpentry and Millwork
- C. Section 07900 - Joint Sealers
- D. Section 09260 - Gypsum Board Systems
- 1.3 Standards: Materials and construction shall conform to the following:
- A. ASTM D638 - 10 Standard Test Method for Tensile Properties of Plastics.
- B. ASTM D790 - 10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- C. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 Design/Performance Requirements:

- A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.
- B. Allow for thermal movements from ambient and surface temperature changes by preventing bucking, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

1.5 Quality Assurance:

- A. Manufacturer's Qualifications:
- Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
 - Minimum of 40 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.
- B. Fabricator:
- Fabricated by the manufacturer, and/or;
 - Contracted by the customer, minimum 5 years' experience in fabrication work for the size and complexity of the projects.
- C. Installer
- Proven professional installer with a minimum of 5 years of documented experience.
 - Approved by the manufacturer.

1.6 Delivery, Storage and Handling:

- A. Refer to Section 01400 Quality Requirements.
- B. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture and weight.
- C. Storage:
- Keep panels dry and stored indoors in original packaging until installation.
 - Store Stonewood panels on a smooth, dry, flat surface, making sure there are no bends or bowing in the load.
 - Do not store directly on cold concrete floors as moisture may migrate.
 - Do not store under heating units or air conditioning units.
 - Keep load stored within outer wrap until use. Remove pallet straps once load is moved to storage area.
 - Reseal plastic wrap if partial load used.
 - Keep foam dividers in place.
- D. Handling:
- Handle materials in accordance with manufacturer's instructions.
 - Protect materials during handling to prevent damage.
 - When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. PLEASE TAKE CARE NOT TO SCRATCH THE SURFACE OF THE PANEL DURING HANDLING, MACHINING AND INSTALLATION.

1.7 Warranty:

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

1.8 Project Conditions:

- A. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working conditions for finish work.
- B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- C. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.

2.1 Manufacturer:

- A. Fibersen Industries, Inc. PO Box 808, Oconomowoc, WI. 53066. Phone: (262) 567-4427, Fax: (262) 567-4814, Web Site: www.stonewoodpanels.com Email: info@fibersen.com
- B. Made in the United States from materials sourced in the USA.

2.2 Application:

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

2.3 Interior Stonewood:

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

2.4 Minimum Material Properties

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

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

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

- D. Manufacturing Tolerance:
- | | |
|------------------------------------|----------|
| Thickness (156 to 375) | +/- .020 |
| Thickness (above 375 to 1,000) | +/- .030 |
| CNC Shaped Size (Length - Width) | +/- .020 |
| Drill Diameter | +/- .003 |
| Drill Depth | +/- .020 |
| CNC Hole to Hole | +/- .020 |
| CNC Hole to Edge (1 Oper) | +/- .020 |
| CNC Hole to Edge (2 Oper) | +/- .030 |
| Routing - (Slots Width and Length) | +/- .015 |
| Routing - (Slots Depth) | +/- .020 |

2.5 Accessories (Fasteners):

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

3.1 Manufacturer's Execution Instructions:

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

3.2 Examination:

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

3.3 Preparation:

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

3.4 Installation:

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

3.5 Erection Tolerances:

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

3.6 Field Quality Control:

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

3.7 Adjusting:

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

3.8 Cleaning:

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

SECTION 09900 - PAINTS AND COATINGS

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

- A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items.
- B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.

1.2 Related Documents:

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

1.3 Summary:

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

1.4 Quality Assurance:

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

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

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

1.5 Delivery, Storage and Handling:

- A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
- Product name or tile of material.
 - Product description (generic classification or binder type).
 - Manufacturer's stock number and date of manufacture.
 - Contents by volume, for pigment and vehicle constituents.
 - Thinning instructions.
 - Application instructions.
 - Color name and number.
 - VOC content
- B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
- Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.

1.6 Project Conditions

- A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin.
- B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C).
- C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or to damp or wet surfaces.
- Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

2.1 Manufacturers:

- A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.
- B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below:
- PPG Industries, Inc.
 - Materials - No substitutions allowed.

2.2 Paint Materials, General

- A. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- B. Material Quality: Provide manufacturer's best-quality "professional" paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

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

C. Exterior Coatings:

Exterior Ferrous Metals:

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

Exterior and Interior Gas Piping:

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

Exterior Patio Railings:

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

Exterior Prefinished Metal Wall Panels:

- Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
- Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-603XI Alkali Resistant Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:

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

Owner Option 2:

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

Owner Option 3 (Low VOC):

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

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

Exterior Galvanized Metal:

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

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

Owner Option 1:

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

Owner Option 2:

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

Owner Option 3 (Low VOC):

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

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

CONSULTANT:



CLIENT:



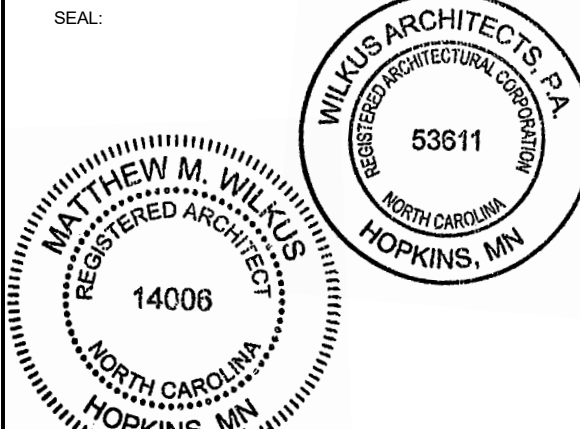
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PROJECT INFORMATION:

STORE NO.: #5421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115

DRAWN BY TRC

CHECKED BY DLA

ISSUE RECORD:

05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET

REVISIONS:

TITLE:

ARCHITECTURAL
SPECIFICATIONS

SHEET NUMBER:

G016

Exterior CMU Primer:

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

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

Prime: (2) Coats PPG; Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler

Application: Brush, Roll or Spray

Exterior Stucco/EIFS Surfaces (including wet areas):

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.

Prime: (1) coat PPG; 4-603 Perma-Crete Alkali Resistant Primer (100 g/L VOC): Applied at a dry film thickness of not less than 1.2 to 1.9 mils.

Finish: (2) coats PPG; 4-22 Perma-Crete Hi-Build Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 3.2 to 5.8 mils.

Application: Airless spray with back roll using 3/4" nap roller.

Exterior Wood:

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and or scrapers. Allow to dry and sand all areas that need smoothing and dust off.

Prime: (1) coat PPG; 17-921 Seal Grip Primer Sealer (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Finish: (2) coats PPG; 70-501 Manor Hall Exterior Semi-Gloss or PPG Acri-Shield Semi-Gloss PP649 (50 g/L VOC): Applied at a dry film thickness of not less than 1.5 to 3.0 mils.

Application: Brush, Roll or Spray

D. Interior Coatings:

Interior Metals: (Doors, door frames, where indicated)

Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.

Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Repaints only require spot prime on bare metal surfaces.)

Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.

Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Metals: (Metal Deck if indicated on Finish Plan)

Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and allow to dry before priming.

Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Primer only required on unpainted decking or to spot prime bare areas in decking.)

Finish: (2) coats PPG; 90-1110 Pitt-Tech Plus Satin Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Gyp. Bd.:

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions. Fill hairline cracks, holes and other defects with filler compatible with finish coats. Sand smooth all areas filled and/or areas to make a smooth overall finish.

Prime: (1) coat PPG; 9-900 Pure Performance Acrylic Primer (0 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils. (Spot prime required only on repaint projects.)

Finish: (2) coats PPG; Pure Performance Zero VOC Eggshell 9-500 Series, sheen as shown on finish plan: Applied at a dry film thickness of not less than 1.5 to 2.0 mils.

Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Wood Trim and Plywood - Clear Polyurethane Finish:

(Plywood finishes shall be shop applied in a controlled environment)

Shop Preparation: Scuff sand between coats.

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

Application: Spray

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

Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen

Application: Wipe on with t-shirt rag.

Exterior Traffic Safety Marking.:

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

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

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

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

Application: Applying a test strip to determine dry to no- pickup time when the humidity is higher than 65%. Cone whenever necessary.

• Do not heat paint in striping system above 60 C.

• Do not apply when temperatures are below 3 C.

• Do not apply when rain is forecast.

• Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.

• Do not thin more than 5% with acetone and then use immediately.

• Do not apply if temperature is expected to fall below freezing for 6 hours after application of paint.

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

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

Brush: Polyester/Nylon Brush

Roller: All-purpose nap roller cover.

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

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior (Roof Mounted) Gas Piping	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Yellow	Semi-Gloss	N/A
Exterior and Interior Gas Piping, Where Exposed	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Match surrounding finishes/verify with architect	Semi-Gloss	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A
Interior Doors, Door Frames, Rails and Rail Frames, Where Specified	PPG Breakthrough 50 Acrylic Satin	PPG V52-90 Black	Satin	D1
Interior Ferrous Metals, Where Specified	PPG Breakthrough 250 Acrylic Eggshell V50-410 Series	PPG 1013-5 "Victorian Pewter"	Eggshell	N/A
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Semi-Gloss	P4
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Eggshell	P3
Dining Room and Hallway Gyp. Bd. Ceiling	PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-4110XI Flat	PPG 1041-1 "Moonlit Snow"	Flat	C3
Restroom, Cooking, Kitchen and Serving Area Soffit Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-500 Series	PPG 1041-1 "Moonlit Snow"	Eggshell	C3
Interior Metal Roof Deck and Metal Columns	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1013-5 "Victorian Pewter"	Satin	C1
Patio Railing	Durethane DTM Urethane 95-3300 Series	PPG 1001-6 "Knight's Armor"	Gloss	N/A

3.1 Installation:

A. Examination:

1. Verify that site environmental conditions are appropriate for application of coatings specified.

2. Immediately prior to coating application, ensure that surfaces to receive coatings are dry.

3. Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer.

4. Immediately prior to coating application, examine surfaces to receive coatings for surface imperfections and for contaminants which could impair performance or appearance of coatings, including but not limited to, loose primer, rust, scale, oil, grease, mildew, algae, or fungus, stains or marks, cracks, indentations, or abrasions.

5. Correct the above conditions and any other conditions which could impair performance or appearance of coatings in accordance with specified surface preparation procedures before proceeding with coating application.

B. Preparation:

1. Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance.

2. Stains and Marks: Remove completely, if possible, using materials and methods recommended by coating manufacturer; seal with shellac or other coating acceptable to paint manufacturer stains and marks that might bleed through paint finishes which cannot be completely removed.

3. Remove or protect hardware, electrical plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings which are adjacent to surfaces to receive coatings.

4. Remove mildew from impervious surfaces by scrubbing with solution of disodium phosphate and bleach. Rinse with clean water and allow substrate to thoroughly dry.

5. For specific substrate preparation, see individual specifications.

6. Provide necessary staging, ladders, shield, protective coverings and drop cloths. Protect floors, walls and adjacent work and materials. Remove and properly replace temporary protection and coverings removed from any part of the work or finish. Repair damage at Contractor's expense.

C. Application:

1. General: Mix, prepare and apply paint according to manufacturer's written instructions.

a. Use applicators and techniques best suited for substrate and type of material being applied.

b. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.

c. Coating surface treatments, and finishes are indicated in the coating system descriptions.

d. Provide finish coats compatible with primers used.

e. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.

2. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.

a. The number of coats and film thickness required is the same regardless of application method.

b. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements as directed by Tenant. Paints and coatings work is subject to acceptance by the Tenant.

c. Keep brushes and rollers clean, free from contamination and suitable for the finish required.

d. Unless otherwise indicated, allow exterior paints to dry for 48 hours and interior paints to dry for 24 hours between coats.

e. Sand lightly and remove dust between coats to achieve required finish.

f. Finished surfaces shall be uniform in finish and color and free of brush marks, sagging, holidays, corduroy and other imperfections. Coverage and hide shall be complete.

g. Edges of paint or finish adjoining other materials or colors shall be sharp and clean without overlapping. Cut paint in neatly around glass or other edges.

h. Paints and coatings work is subject to acceptance by the Tenant. Correct unsatisfactory work not complying with these specifications as directed by the Tenant.

D. Cleaning:

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

E. Protection:

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

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

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

F. Maintenance: Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the Tenant.

1. Provide one gallon of paint and wood stain of each type and color required for maintenance purposes. Provide original, unopened, labeled containers with color samples and a list of project use.

DIVISION 10 - SPECIALTIES

SECTION 10522 - PORTABLE FIRE EXTINGUISHERS

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

A. Standards: Materials and installation shall conform to the following:

1. NFPA 10 "Standard for Portable Fire Extinguishers.

2.1 Materials:

A. Provide minimum 10 lb. capacity fire extinguishers in quantity and type complying with local code and fire regulations requirements.

1. Provide new fire extinguishers fully loaded, tested, UL and FM labeled and listed and ready for use.

2. Provide manufacturer's recommended mounting brackets and hardware.

3.1 Installation:

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

SECTION 10700 - EXTRUDED ALUMINUM CANOPY

1.1 General: Provide canopies as shown and specified.

A. Standards: Materials and installation shall conform to the following:

1. AWS, D1.1 - Structural Welding Code - Steel

2. AMMA, Aluminum Finishes AAMA 2604 (FGIA 2604) - Powder Coat

B. Quality Assurance

1. Shop Drawings: To be created under the guidance of a professional engineer. Site Specific stamped drawing may be required by the manufacturer based on location. Drawings must indicate size, material and finish. Include plan, elevations and sections to clearly outline the canopy locations. Include installation procedures, details of joints, attachments and clearances.

a. Submit within 15 days after contract award.

2. Color charts showing manufacturer's full range of colors from standard line including Chipotle's custom "charcoal" color match to prototypical window mullion system.

2.1 Manufacturers:

A. Architectural Fabrication, Inc. – Manufacturer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. P: (800) 962-8027. E: chipotle@arch-fab.com, W: www.arch-fab.com

B. Substitutions are acceptable assuming they comply with this specification, are submitted based on Quality Assurance and Division1 - Section 01100 requirements and have minimum 10 years experience, and only when approved by Arch PM and Chipotle DM.

1. Awnex, Contact: Katie Dicks, P: 770-704-7140 x151, E: katie@awnexinc.com

2. Uni-Structures, Contact: Dana Fredericks, P: 678-974-1773

3. API, Contact: Jade Moore-Esposito, P: 813-925-0144, E: jesposito@americanproducts.com

2.2 Materials:

A. Specifications are based on Architectural Fabrication, Inc. - Helios Canopy Patent #9,976,310

1. Framing: Gutter fascia, tube, angles: 6063-T6 alloy extruded aluminum. Gutter to be notched in the back to allow steel support arms to pass through.

2. Decking: Extruded aluminum 8" wide deck pan in 6063-T6 or 6063-T5 alloy (Roll form is not acceptable)

3. Steel Support Arms: 3" x 3" x .250" Steel tube support arms w/ 8" w x 5" h x 1/2" thick steel plate welded to the back. Must manufacture steel arm in manner to leave room for LED enclosure at back of canopy.

4. Hardware and Fasteners: Nuts, bolts, washers, clevis pins, screws, anchors and pipe spacers to be zinc plated or galvanized steel required to suit. application and per pre-engineered canopy load requirements. Typical wall anchors are minimum 3/2" diameter. Touch up paint must be provided for each canopy to allow for potential repairs in the field.

5. Flashing: Shall be minimum 0.040-inch aluminum, fabricated to prevent leakage and sealed with Novaflex metal roof sealant in custom color match. Another equivalent sealant is acceptable.

6. LED Enclosure: Each canopy is to have a preformed aluminum LED enclosure along the back edge of the canopy finished in the same powder coat as the canopy. 1" nominal inside width, and a minimum aluminum sheet thickness of .063".

7. Scuppers: Drainage for canopy is (2) aluminum scuppers located at the front of the canopy per drawings. See finish below for details.

8. Finish: All aluminum shall be powder coat finish per FGIA 2604 (aka AAMA 2604). Steel shall be commercially blasted, then coated with a zinc rich primer, and finally the top coat of super polyester powder (2604 compliant) applied.

3.1 Installation:

1. Install canopies per manufacturer's written instructions and videos, and as indicated on architectural drawings

2. Locate and place canopies level, plumb and at indicated alignment with adjacent work.

3. Use concealed anchors where possible.

4. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.

5. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a coating of bituminous paint or elastomeric coating on surfaces that will be in contact with concrete, masonry or dissimilar metals.

DIVISION 11- NOT APPLICABLE

DIVISION 12- FURNISHINGS

SECTION 12495 - WINDOW SHADES

1.1 General: Provide window shades as shown and specified.

A. Standards: Shade fabric material shall meet the requirements of the following:

1. NFPA 701 Flame Test and California US Title 19 for flame retardant materials.

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

C. Warranty:

1. 5 years against defects in materials and workmanship.

2. 1 year for service call repairs and adjustments.

2.1 Materials:

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

B. Window Shades: Insolroll 2000 Solar Screen Shades, manual operation.

1. Solar Screen Shade Fabric: Insolroll woven fiberglass yarn, 5% openness, Charcoal/Bronze color.

2. Provide manufacturer's recommended mounting brackets and hardware.

C. Fabrication: Unless otherwise indicated, fabricate window shade units to completely fill existing window openings from jamb to jamb and from head to 42" AFF or the nearest horizontal mullion from 40"-44" AFF.

1. Adjustment system controlled by plastic bead chain on polyester cord. Multi-banded steel spring clutches keep shade in desired position.

2. Roller tube 2" extruded aluminum, sized to minimize deflection.

3. Fabric attached to roller tube using two-sided adhesive tape.

4. Fabric bottom hem RF heat sealed pocket with enclosed hem bar.

3.1 Installation:

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

DIVISIONS 13 - 14 - NOT APPLICABLE

CONSULTANT:



WILKUS ARCHITECTS

CLIENT:



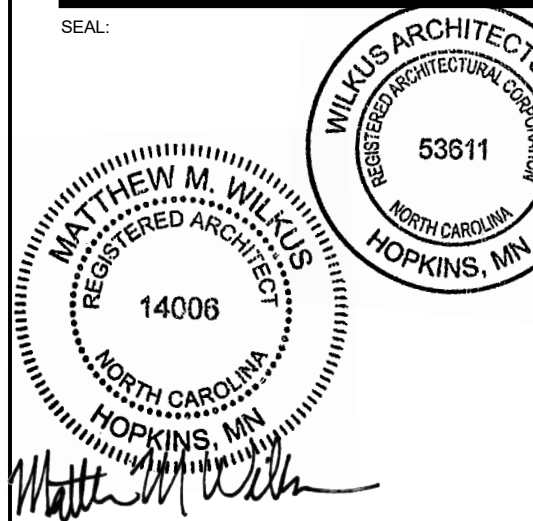
CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182966
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3005 STELFOX ST,
CHARLOTTE, NC 28262

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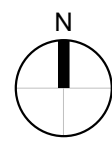
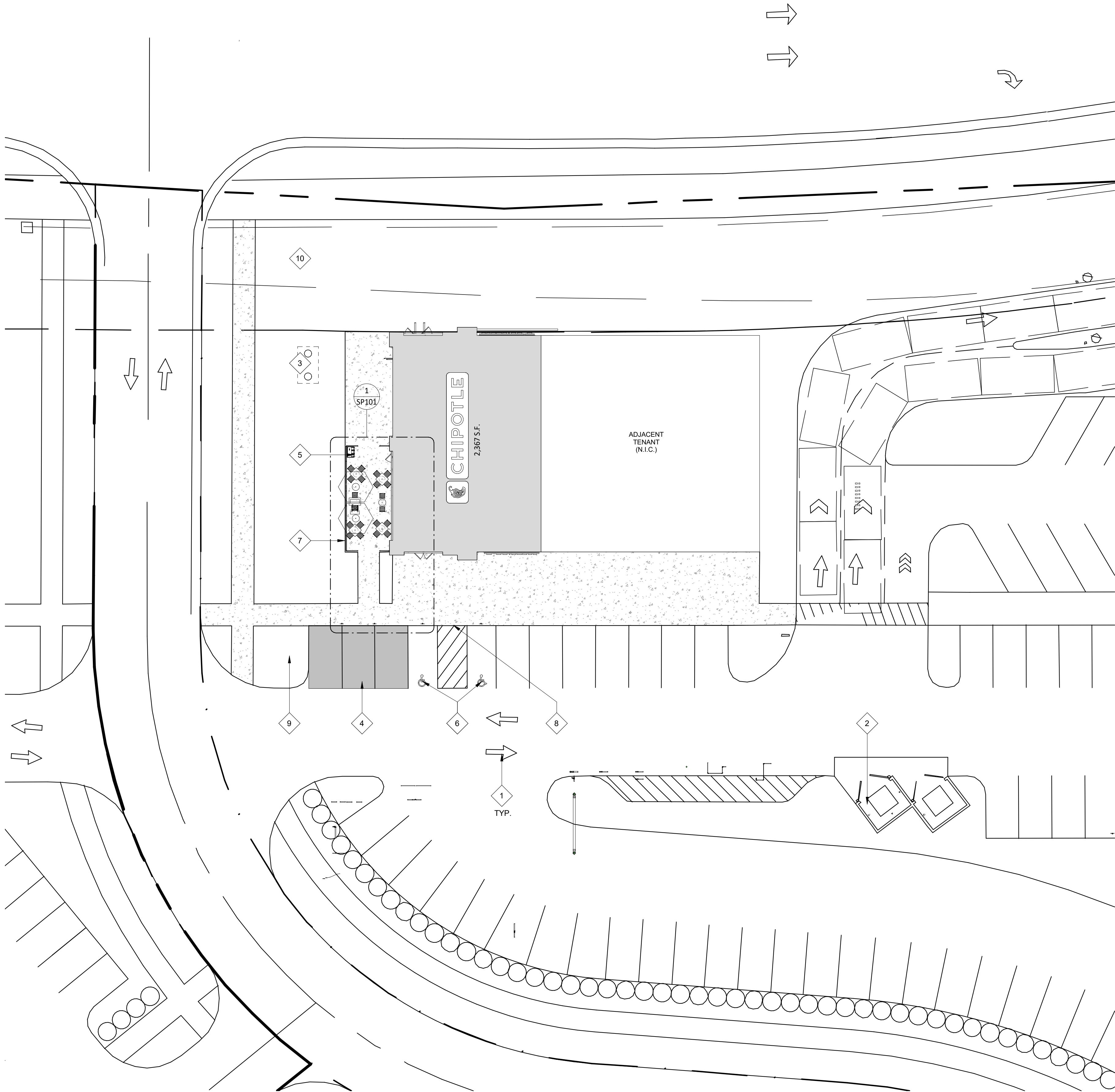
MATTHEW M. WILKUS
REGISTERED ARCHITECT
NORTH CAROLINA
HOPKINS, MN
14006

October 01, 2024
MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115
DRAWN BY TRC
CHECKED BY DLA

ISSUE RECORD:

05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET



GENERAL NOTES - SITE PLAN

- ALL SITE WORK INCLUDING PAVING, CURBING, PARKING, PARKING LOT LIGHTING, SIDEWALKS, LANDSCAPING, BOLLARDS AND DUMPSTER ENCLOSURE ARE EXISTING UNLESS NOTED OTHERWISE.
- FOR STENCIL INFORMATION, REFER TO DIVISION 2 - SITE CONSTRUCTION FOR ADDITIONAL INFORMATION.
- PROVIDED ARCHITECTURAL SITE PLAN IS FOR REFERENCE PURPOSES ONLY. GENERAL CONTRACTOR TO VERIFY LANDLORD PROVIDED ITEMS MATCH THE INDICATED NOTING BELOW AS REQUIRED. IF GENERAL CONTRACTOR OCCURS ANY DISCREPANCIES, CONTACT THE ARCHITECT IMMEDIATELY.

KEYNOTE LEGEND

1	DIRECTIONAL PAVEMENT MARKINGS PROVIDED BY CHIPOTLE
2	TRASH ENCLOSURE, PAD, APRON AND BOLLARD LOCATION BY LANDLORD - PROTECT DURING CONSTRUCTION
3	1,500 GALLON GREASE INTERCEPTOR LOCATION - CHIPOTLE'S GENERAL CONTRACTOR TO REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
4	THREE (3) SPACES MARKED FOR 'BURRITO LOADING ZONE' PARKING - FOUNDATION AND POLE PROVIDED BY GENERAL CONTRACTOR - SIGN PROVIDED BY THE SIGNAGE VENDOR AND INSTALLED BY GENERAL CONTRACTOR,
5	400 SF CONCRETE PATIO SLAB BY LANDLORD - PROTECT DURING CONSTRUCTION
6	TWO (2) ACCESSIBLE PARKING SPACES MARKED WITH STRIPING AND SIGN POSTS BY LANDLORD
7	PATIO RAILING PROVIDED BY LANDLORD.
8	CURB RAMP AND CROSSWALK FOR PEDESTRIAN ACCESS AND DELIVERIES (BY OWNER)
9	LANDSCAPE AREA AND IRRIGATION SYSTEM (BY OWNER)
10	MONUMENT SIGNAGE BASE (LOCATION TBD) PROVIDED BY LANDLORD - SIGN CABINET AND POWER HOOK-UPS ARE TO BE PROVIDED BY THE SIGNAGE VENDOR

CONSULTANT:



CLIENT:



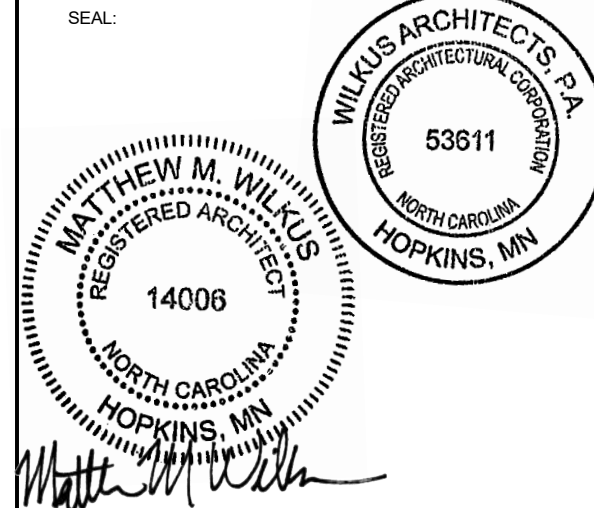
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CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115
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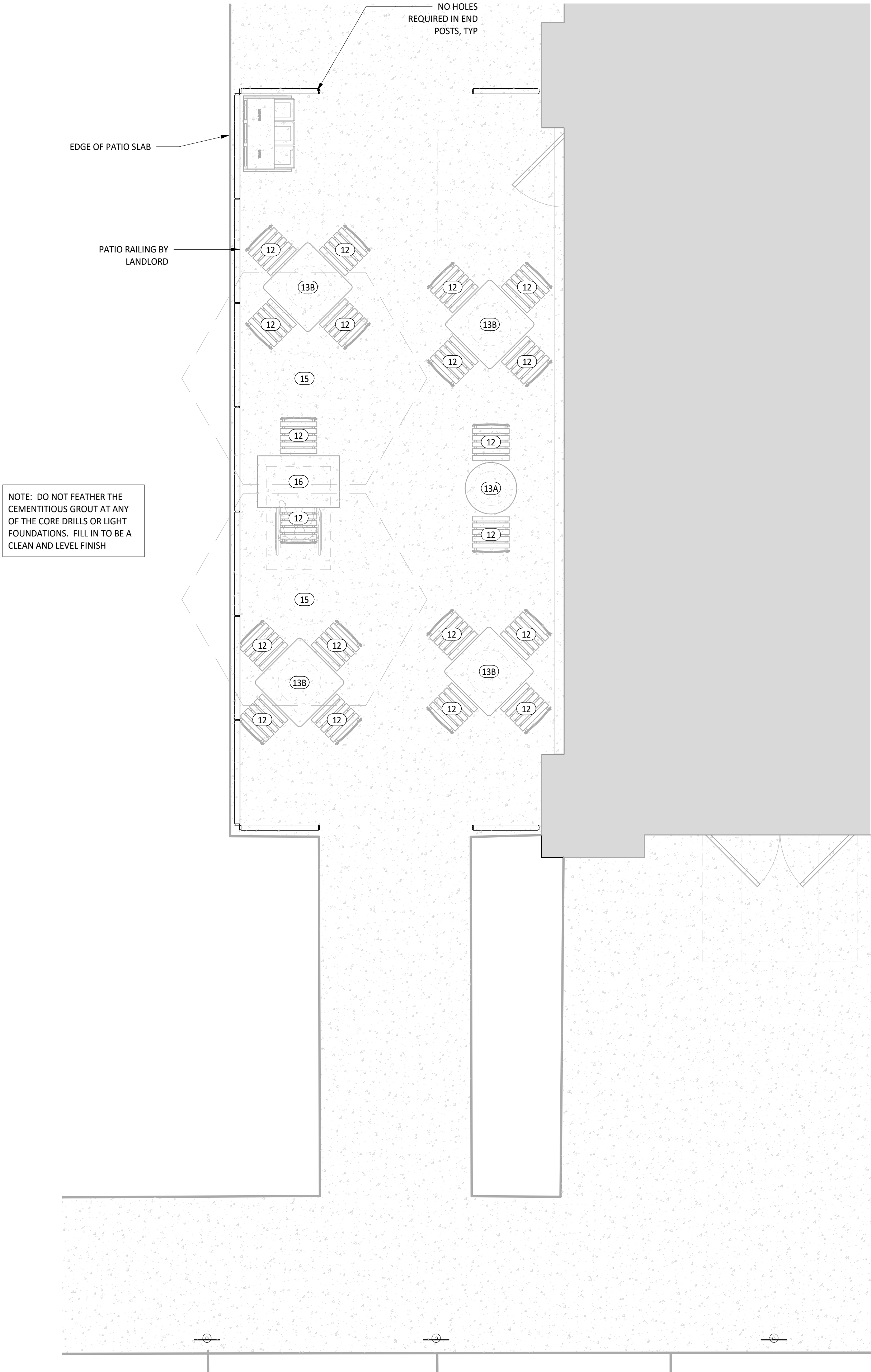
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SITE PLAN

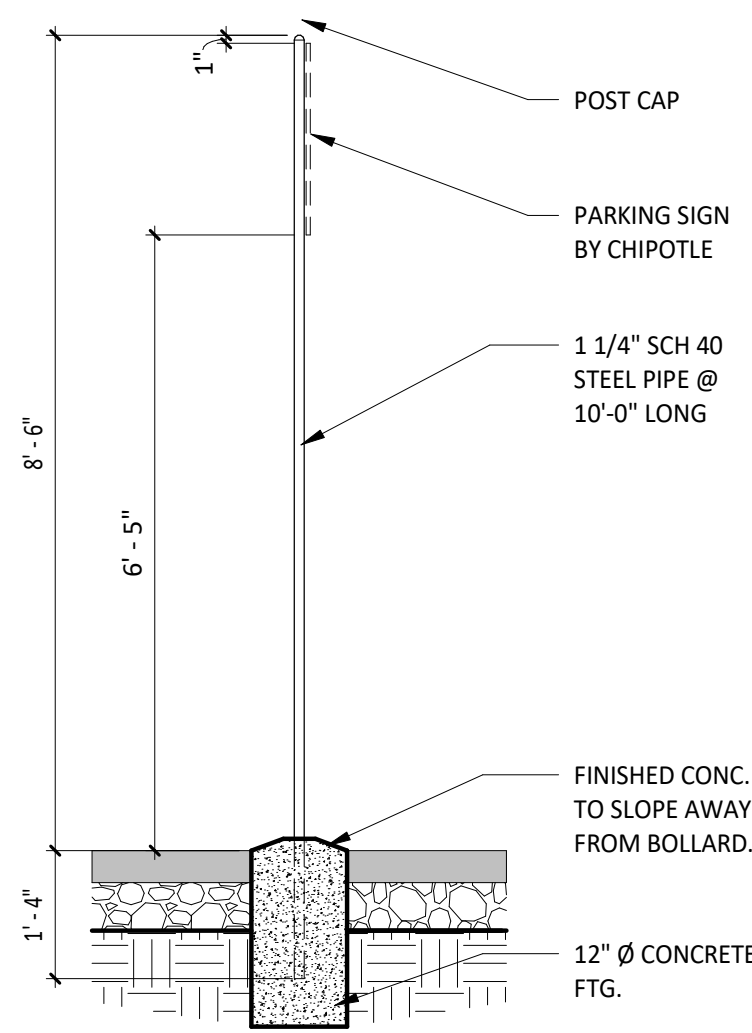
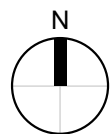
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NOTE: DO NOT FEATHER THE CEMENTITIOUS GROUT AT ANY OF THE CORE DRILLS OR LIGHT FOUNDATIONS. FILL IN TO BE A CLEAN AND LEVEL FINISH

1 PATIO PLAN
SCALE: 3/8" = 1'-0"



2 TYP. SIGN POST DETAIL
SCALE: 1/2" = 1'-0"



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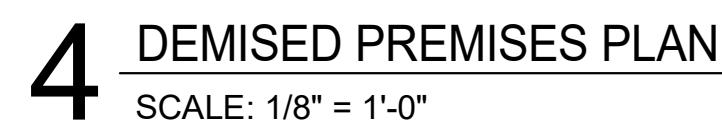
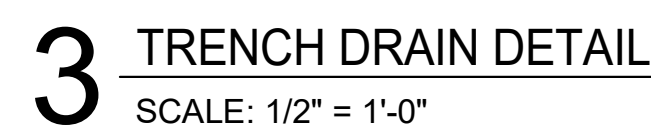
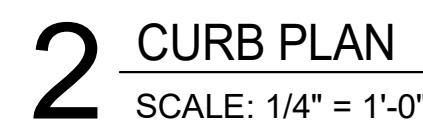
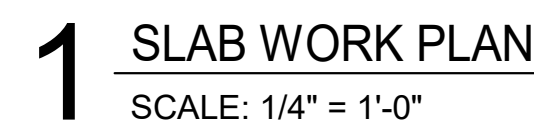
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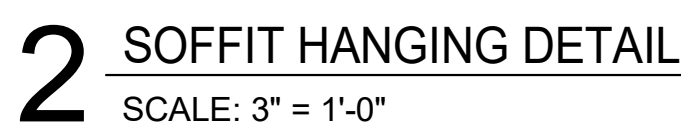
REVISIONS:

TITLE:
SITE DETAILS

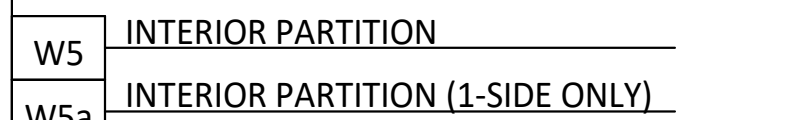
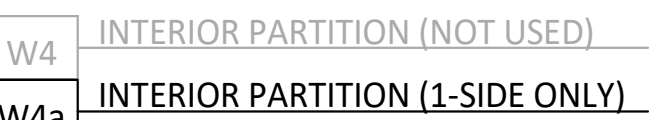
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A101



W1	INTERIOR PARTITION
W1a	INTERIOR PARTITION (1-SIDE ONLY)



INTERIOR PARTITION (SUBSTRATE ONLY)



INTERIOR PARTITION



V15ax INTERIOR PARTITION



A.	REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A110 FOR METAL STUD SIZE.
B.	G.C. SHALL PROVIDE SOLID BLOCKING IN WALLS AS REQUIRED OR AS NEEDED.
C.	STUDS ARE 3 5/8" METAL STUDS UNLESS OTHERWISE NOTED ON PLAN.

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

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

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

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

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

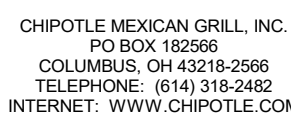
C: STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.)
0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN. LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C.
FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.N.O.

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

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

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

CONSULTANT



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SEARCH



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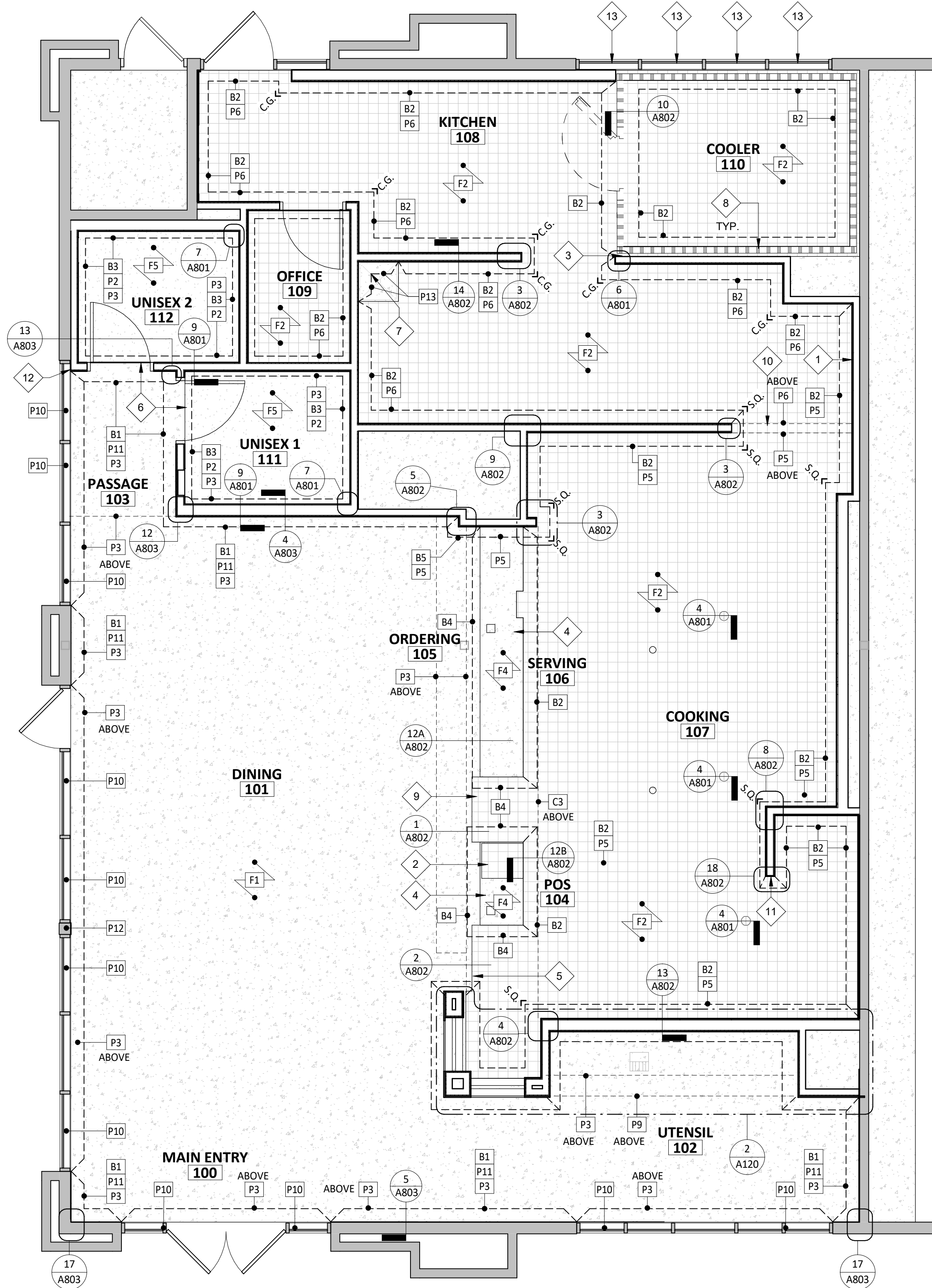
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TITL

ARCHITECTURAL WALL TYPES

SHEET NUMBER

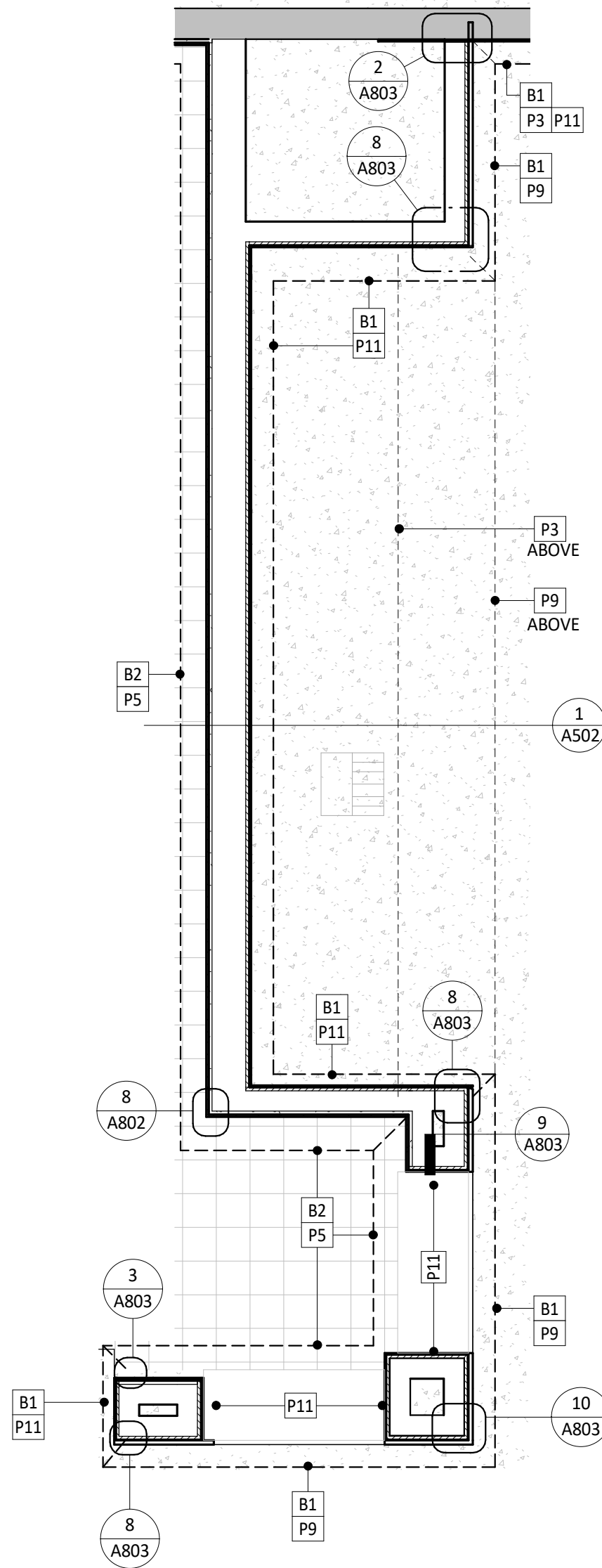
A111



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

FINISH LEGEND

LGD. #	FLOOR FINISHES	LGD. #	WALL BASE FINISHES	LGD. #	CEILING/DECK FINISHES
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	C1	OPEN TO STRUCTURE, UNPAINTED
F2	QUARRY TILE	B2	QUARRY TILE, COVE	C2	STONEWOOD
F3	EXISTING EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	C3	GYP BD; PAINT "MOONLIT SNOW"
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	C4	2X4 VINYL-FACED LAY-IN
F5	RESINOUS FLOORING	B5	CERAMIC TILE	C5	NOT USED
F6	NOT USED				
LGD. #	DOOR FINISHES	LGD. #	WALL BASE FINISHES		
D1	PAINT "BLACK"	P1	NOT USED		
D2	PAINT "KNIGHTS ARMOR"	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH)		
		P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710		
		P4	NOT USED		
		P5	CERAMIC TILE - WHITE		
		P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)		
		P7	NOT USED		
		P8	NOT USED		
		P9	SPALTED MAPLE WALL PANEL, HORIZONTAL GRAIN		
		P10	EXISTING STOREFRONT		
		P11	STONEWOOD WALL PANEL		
		P12	EXISTING PREFINISHED BRAKE METAL		
		P13	STAINLESS STEEL		



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

GENERAL NOTES - FINISH PLAN

- A. STONEWOOD WALL PANELS AND WAINSCOTS PROVIDED BY TMS, INSTALLED BY GC.
B. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
C. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).
D. PROVIDE WATER PROOFING MEMBRANE, REFER TO A802 DETAILS. PROVIDE ON INTERIOR OF ALL RESTROOM WALLS, REFER TO A801 DETAILS

FINISH PLAN SYMBOL LEGEND

- = PROVIDE A SCHLUTER QUADEC METAL CORNER AT ALL TILED CORNERS - REFER TO A802 FOR ADDITIONAL INFORMATION
- = PROVIDE 1 1/2" X 1 1/2" STAINLESS STEEL CORNER GUARD UP TO 5'-0" A.F.F. - 1 1/2" X 1 1/2" FRP CORNER GUARD FROM TOP TO CEILING - REFER TO A802 FOR ADDITIONAL INFORMATION
- = PROVIDE END GUARD - REFER TO A802 FOR ADDITIONAL INFORMATION

KEYNOTE LEGEND

- 1 GENERAL CONTRACTOR TO PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT ICE MAKER.
- 2 PROVIDE QUARRY TILE ON TOP OF CURB FOR SMART SAFE - PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE - REFER TO A802 FOR ADDITIONAL INFORMATION - GENERAL CONTRACTOR TO COORDINATE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION
- 3 FRP ENCLOSURE PANEL AT COOLER GAP - REFER TO A801 FOR ADDITIONAL INFORMATION.
- 4 CONCRETE CURB FOR EQUIPMENT WITH QUARRY TILE BASE AT ALL EXPOSED EDGES.
- 5 ALIGN LOW EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH.
- 6 EXTENT OF RESINOUS FLOOR FROM RESTROOMS - ALIGN EDGE OF FLOOR WITH CENTER OF DOOR JAMB.
- 7 PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK - FLASH BOTTOM EDGE OVER MOP SINK RIM - BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT - REFER TO A801 FOR ADDITIONAL INFORMATION.
- 8 COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH.
- 9 EXTENT OF QUARRY TILE FROM KITCHEN.
- 10 PROVIDE TOP CORNER AT TRANSITION FROM GYPSUM BOARD CEILING TO FRP WALL - REFER TO A210 FOR ADDITIONAL INFORMATION.
- 11 ALUMINUM ENDCAP - REFER TO A802 FOR ADDITIONAL INFORMATION.
- 12 WALL FINISH TO WRAP WALL IN FRONT OF GLAZING.
- 13 APPLY FILM TO BLACK OUT GLAZING OR REPLACE WITH SPANDREL (BY LANDLORD)

CONSULTANT:



CLIENT:



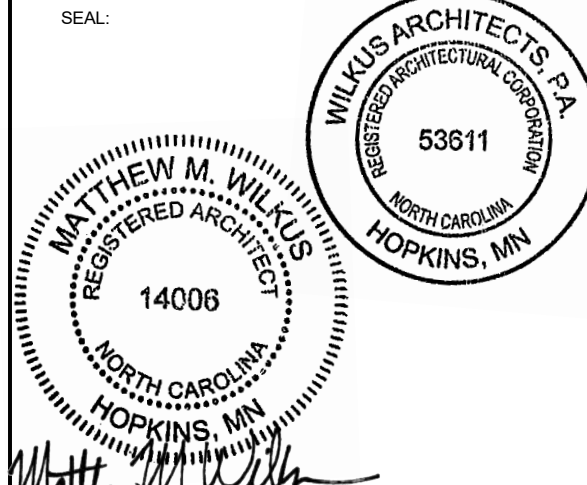
CHIPOTLE MEXICAN GRILL, INC.
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PROJECT INFORMATION:

STORE NO.: #9421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115
DRAWN BY TRC
CHECKED BY DLA

ISSUE RECORD:

05/24/2024 PERMIT SET
07/10/24 BID SET
09/23/24 CONSTRUCTION SET

REVISIONS:

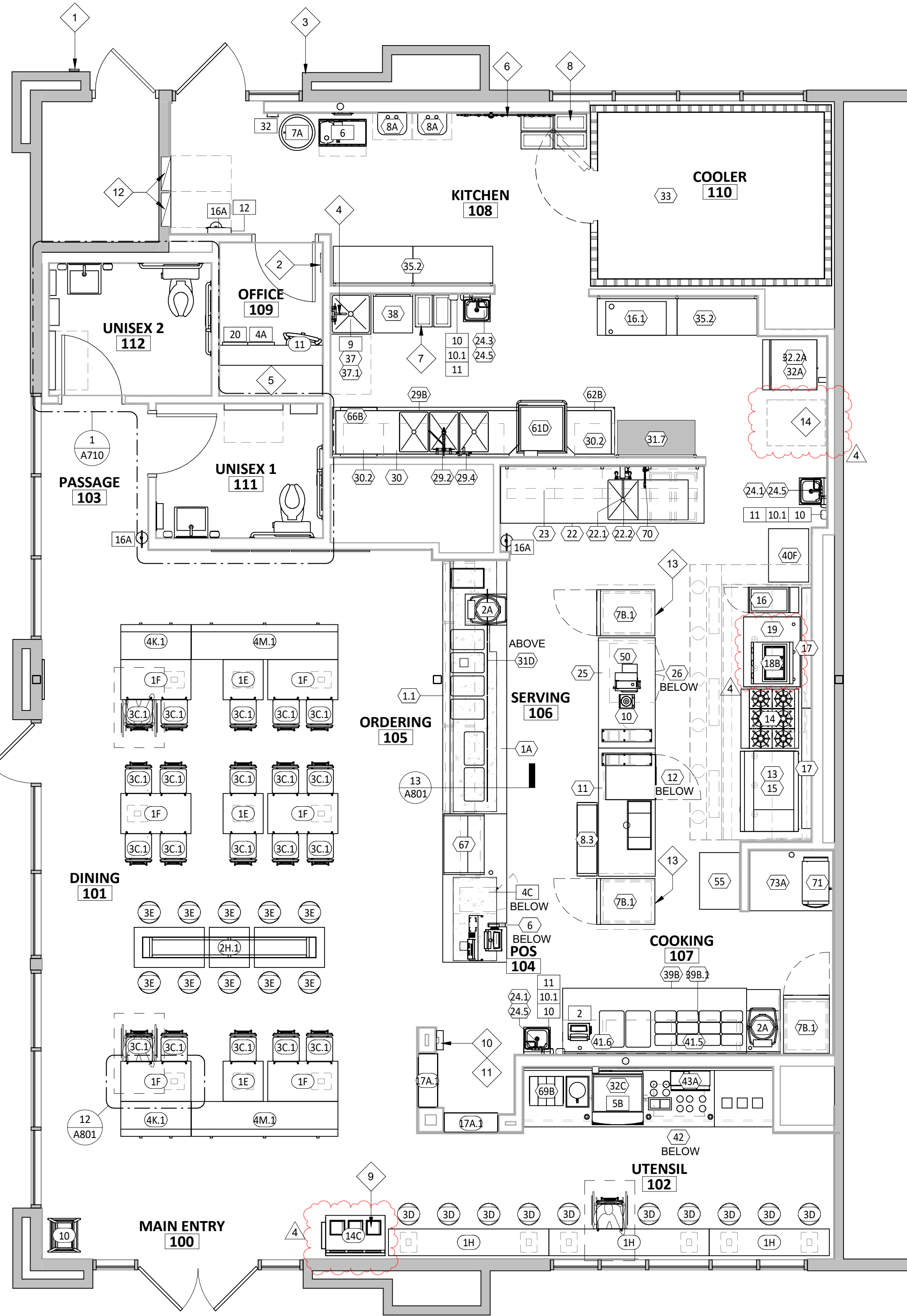
1 07.08.2024 COUNTY COMMENTS

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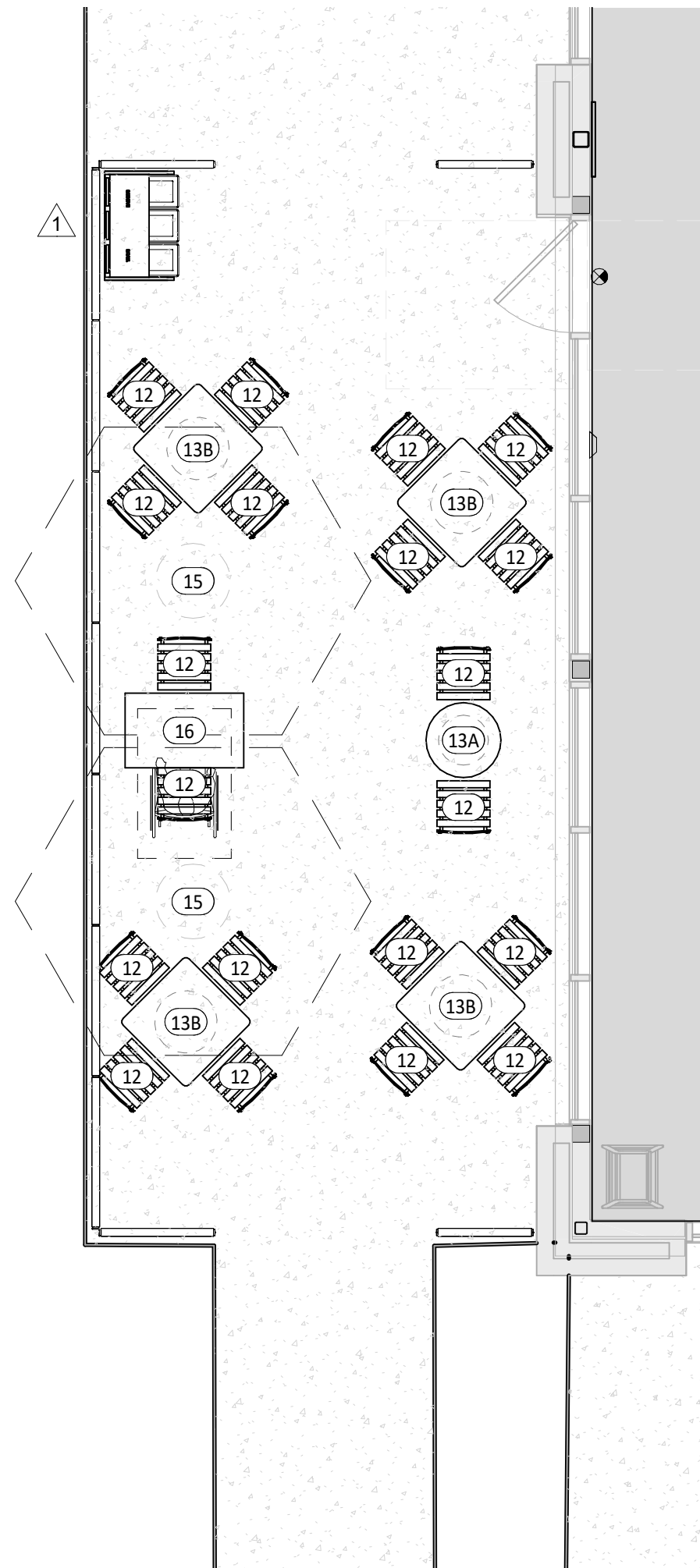
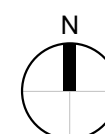
FINISH PLAN

SHEET NUMBER:

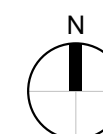
A120



1 FURNITURE, FIXTURE, & EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"



2 FURNITURE, FIXTURE & EQUIPMENT PATIO PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES - FF& E

- REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
- ALL DIMENSIONS TO EXTERIOR OR EXISTING WALLS ARE TO THE FINISH FACE OF THE EXISTING GYP. BD.
- ALL DIMENSIONS ARE TO FACE OF FRAMING, EDGE OF EQUIPMENT, OR CENTERLINE OF EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL FURNITURE TO BE SQUARE/PARALLEL TO TENANT SPACE/WALLS AS SHOWN ON PLANS.

KEYNOTE LEGEND

- C02 REMOTE FILLER - VERIFY FINAL LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
- BYPASS DISTRIBUTION PANEL - SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- DOORBELL LOCATION - INSTALL BETWEEN 36" AND 48" A.F.F. - REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- CHEMICAL CLEANING DISPENSING SYSTEM WITH INTEGRAL AIR GAP - REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- OFFICE DESK AND SHELVING - REFER TO SHEET A702 AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- WATER FILTER ABOVE - REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- MOVEABLE BACK-UP TRASH BINS FOR DINING AREA TRASH SURROUNDS - TYPICAL OF TWO (2).
- MOVEABLE LINEN BINS WITH LID - TYPICAL OF FOUR (4).
- ALIGN TRASH SURROUND WITH EDGE OF DOOR.
- KRONOS TIMECLOCK WILL BE LOCATED 44" A.F.F. TO THE TOP OF UNIT - CENTER KRONOS UNIT IN WALL - REFER TO ELECTRICAL DRAWINGS.
- TELEPHONE BOARD ABOVE - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ELECTRICAL PANEL LOCATION - SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- CUSTOM FABRICATED METAL SHROUDS AT THE BACK OF FREESTANDING COOLERS.
- LOCATION OF FUTURE REACH-IN COOLER - REFER TO ELECTRICAL FOR POWER LOCATION.

CONSULTANT:



CLIENT:



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CHECKED BY DLA

ISSUE RECORD:

05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET

REVISIONS:

1	07.08.2024	COUNTY COMMENTS
4	09.23.2024	2024 DB UPDATES

TITLE:

FF&E PLAN

SHEET NUMBER:

A130

KITCHEN EQUIPMENT LIST

TAG	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	FURNISHED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Left)	BSI	Custom-L	1	TMS	TMS/GC					
1A	M4.0 - Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.Sin (Right)	1	KES	KES; GC	•			•	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	•				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.1	Upright Beverage Cooler, Single Door, Hinge Left	Varies	Varies - Solid Door	3	KES	KES	•				
8.3	M4.5 Chip Shelf	Trimark	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	T	T	•				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Left	Delfield	77x34in Carving Station - LT	1	KES	KES	•				
12	Undercounter Refrigerator	Hoshizaki	CRMR27-LP	1	KES	KES	•				
13	Grill 48in - Natural Gas - Divider Right	Woodstone	WS-PL-48-36-4-CT-Right	1	KES	KES	•	•			
13.1	Woodstone Grease Splash Guard	Nationwide Fab; Marlo Mfg	CHP-GCG-GSG	1	KES	KES					Verify If Required
14	Range 6 Burner - Natural Gas	Garland	U36-6S	1	KES	KES		•			
15	Woodstone Grill Stand 48x31in - Divider Right	Woodstone	000-PL-STAND-CASTER	1	KES	KES					
16	Fryer - Gas - Standard Efficiency	Varies	Varies	1	KES	KES	•	•			Mounted On Legs, G.C. To Pin Front Legs To Floor
16.1	Grease Caddy	Varies	Chipotle Grease Caddy - RH	1	KES	KES					
17	Cook Line Stand Off - 72x6	Nationwide Fab; Marlo Mfg	CHP-6WS-6	2	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location, Provide Blocking To Mount To Wall
18B	Gas Rice Cooker	Woodstone	WS-GRC-60	1	KES	GC	•	•			Final Connection by GC. RE:Mechanical Drawings
19	Rice Cooker Stand - Right	Nationwide Fab; Marlo Mfg	CHP-RCS-42ES-34	1	KES	KES					
22	Prep Sink - Corner - Left	Trimark	S1-122x34-US-FF-L	1	KES	GC				•	
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			•		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			•		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				•	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.1	Hand Sink Wall Mounted - Splash Left	Universal Stainless	EHS-1L-NF	2	KES	GC				•	Provide Plywood Blocking To Mount To Wall
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	1	KES	GC				•	Provide Plywood Blocking To Mount To Wall
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04-CR-VF10	3	KES	GC			•		Provided with B-0199-06-F10, 1.0 GPM Aerator
25	Rice Prep Table Island 66x34	Nationwide Fabrication; Marlo Mfg	Custom Table 66x34in	1	KES	KES					
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-1220-8-8-CHP	1	KES	KES	•				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRB/JSK Substitute Sprayer B-0107-J-SWV	1	KES	KES			•		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				•	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			•		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				•	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 21x48x85in - With Vented Aluminum Covers	Amco	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1B	Ice Maker - Remote Condenser	Hoshizaki	URC-9FZ	1	KES	KES	•				Condensing Units To Be Secured To The Roof Per Code By GC
32.2A	Ice Maker - Storage Bin	Hoshizaki	B500SF	1	KES	KES				•	
32.3	Icemaker- Filter	Cuno	Bev 190	2	KES	KES			•		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	2	KES	KES			•		
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRIZ	1	KES	KES	•		•		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshisaki	KMD-530MAI	1	KES	KES	•		•		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x9 -6ft 3in - Standard	Manitowoc	KAMC46-141-1EC-PCL-4	1	WCS	GC	•			•	Refer To Plumbing and Mechanical Drawings; Refrigeration By Tenant; Remote Exterior Compressor Unit To Be Secured To Roof Per Code By GC
34	Walk-In Cooler Shelving System - 9x12x10	Cambro (Camshelving)	CHP912ER	1	KES	KES					
35.2	Dry Storage Racks 23x96x85in	Varies	Custom	2	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			•		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			•		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	•			•	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
40F	M4.5 - Filler Stand At Range	Select Stainless	24x32x36	1	KES	KES					
41.5	DML 2.0 Shelving - 130in - Top Shelf	Franke/Delfield	CH000A32	1	KES	KES					Mount Bottom Of Shelf At 74 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
41.6	DML 2.0 Shelving - 130in - Bottom Shelf	Franke/Delfield	CH000A34	1	KES	KES					Mount Bottom Of Lowest Portion Of Shelf At 54 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
42	Shelving System Under Counter Beverage Station	ISS	WST1810CLR	1	KES	KES					Mounted on (4) casters, All casters to be swivel type, Front (2) casters to have brake, Located under utensil counter
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
61D	Dish Machine (w/Pump & Ventless)	Hobart	AM16VLSCB (w/Ventless Kit)	1	KES	KES	•		•	•	
62B	Dish Table 30x30	Babington Technology	CDT-30X30X36.5-B-L	1	KES	GC					
65	Utility Cart (Not Shown)	Select Stainless	30SU-22-14-C4-TUBS-CUSTOM	1	KES	GC					Provided As Part Of The WIC Shelving
66B	Drop-Off Table - 22x30in	Trimark	TS-22x30x31-US-C	1	KES	KES					
67	Refrigerated Counter Case, Self-Serve	Structural Concepts	CO3324R-US	1	KES	KES					
69B	M4.0 - Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16	1	KES	GC	•			•	
70	Speed Fill Faucet	T&S	B-0432 MOD	1	KES	GC			•		
71	Quesadilla Press	Turbochef	Sota Touch	1	KES	KES	•				
73A	50" TurboChef Table	Trimark	50X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	FURNISHED BY	INSTALL	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Install in Office, Bolt to Office Floor Slab
4C	Smart Safe	1	TSS	TSS	•				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
5B	Soda Dispenser - With Air-Cooled Ice Maker	1	SPS	SPS	•			•	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf	1	SPS	SPS	•		•		
7A	Bulk CO2 Tank	1	CO2	CO2	•				GC To Secure Cylinders To Wall With Grade 30 Galvanized Steel Chain At 2/3 The Height Of The Cylinder. Attach To Wall With Stainless Steel Quick Link And Screw Eye.
8A	Gas Tankless Water Heater	2	GC	GC		•	•	•	Refer to MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			•	•	See Plumbing Drawings
10	Touch-Free Soap Dispenser	3	WA	GC					
10.1	Hand Sanitizer Dispenser	3	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	3	WA	GC					Provide Plywood Blocking to Mount to Wall
12	First Aid Kit	1	T	GC					Confirm Location With Chipotle CM Prior To Installation
13C	M4.0 - Artwork Panel - Carved Rice Board	1	TAS	GC					Provide Plywood Blocking to Mount to Wall
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
16A	Fire Extinguisher Type ABC - B456	3	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16B	Fire Extinguisher Type K	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31D	14inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	•				Refer to Electrical Drawings for Additional Details.
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	2	TSV	GC					

FURNITURE LIST

TAG	DESCRIPTION	QTY	FURNISHED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	3	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	6	TMS	GC					See Detail On A130
1H	M4.0 - Community Table - Low - Window - Length Varies	3	TMS	GC					
2H.1	M4.0 - Bar Height Table 10-Top, With Footrest	1	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	21	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	10	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
3E	M4.0 - Bar Stool - Fixed	10	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4K.1	Banquette Bench (Black) - Floor Mount	2	TMS	GC					
4M.1	Banquette Bench (Black) - Floor Mount	2	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				•	Coordinate Floor Drain Installation with Utensil Counter Installation, Bins and Sign Hooks Provided by Tundra in Smallwares Package, Install Hooks on Back of Doors
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	20	KE\$	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13A	24in Round Bistro Table	1	KE\$	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13B	30in Square Bistro Table	4	KE\$	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
14A	3 Bin Trash/Recycling Surround - Exterior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
15	Patio Umbrella	2	KE\$	GC					
16	Accessible Patio Table	1	KE\$	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
17A.1	MOPUS Shelving - 32"	2	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room

CONSULTANT:



CLIENT:



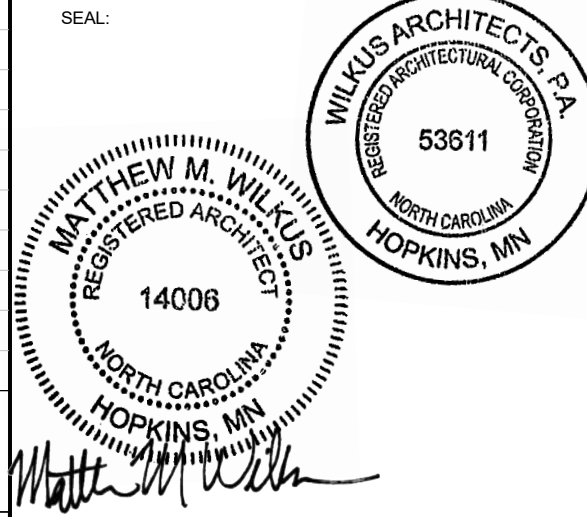
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October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115
DRAWN BY TRC
CHECKED BY DLA

ISSUE RECORD:

05/24/2024	PERMIT SET
07/10/24	BID SET
09/23/24	CONSTRUCTION SET

REVISIONS:

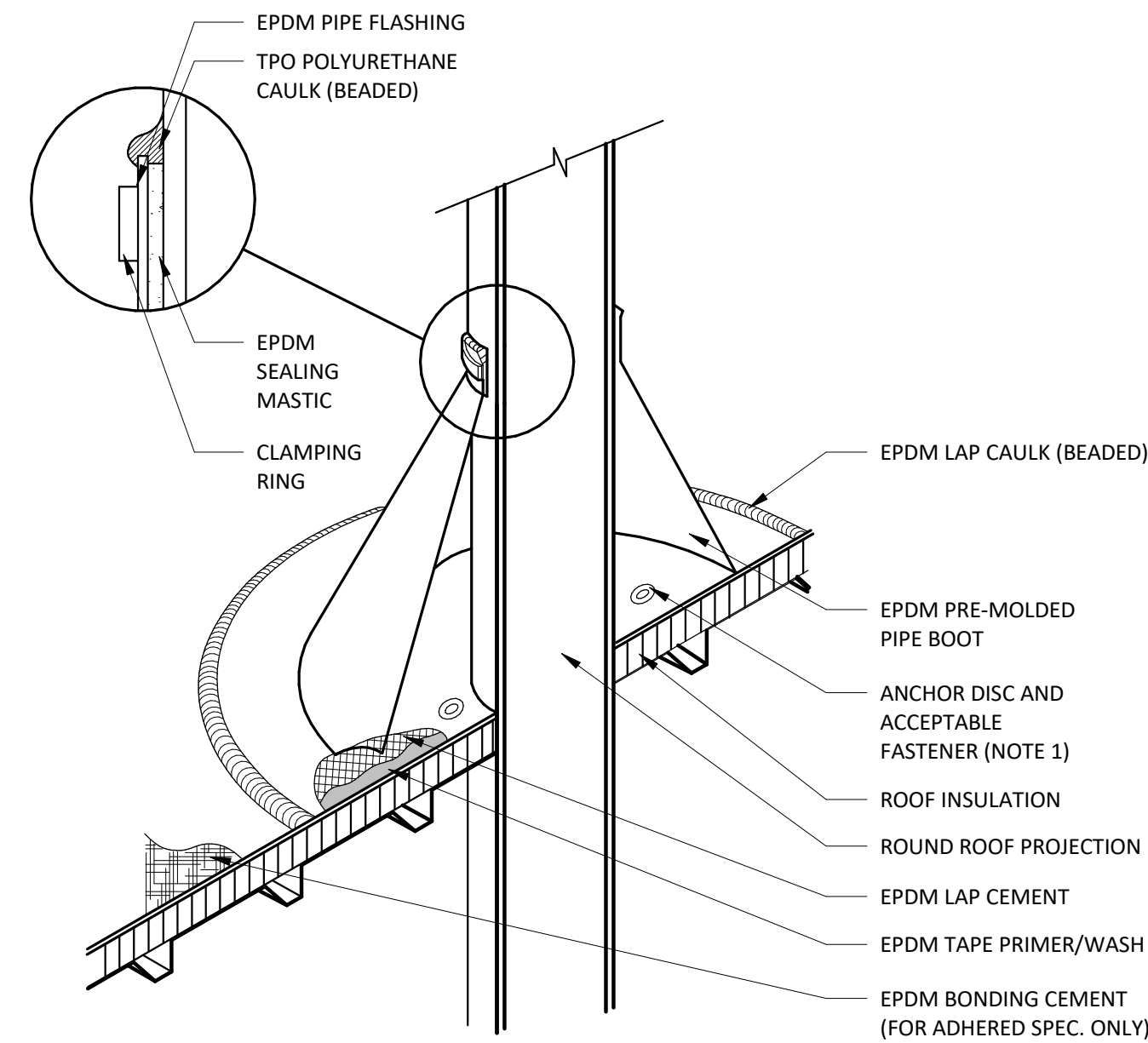
TITLE:

FF&E SCHEDULES

SHEET NUMBER:

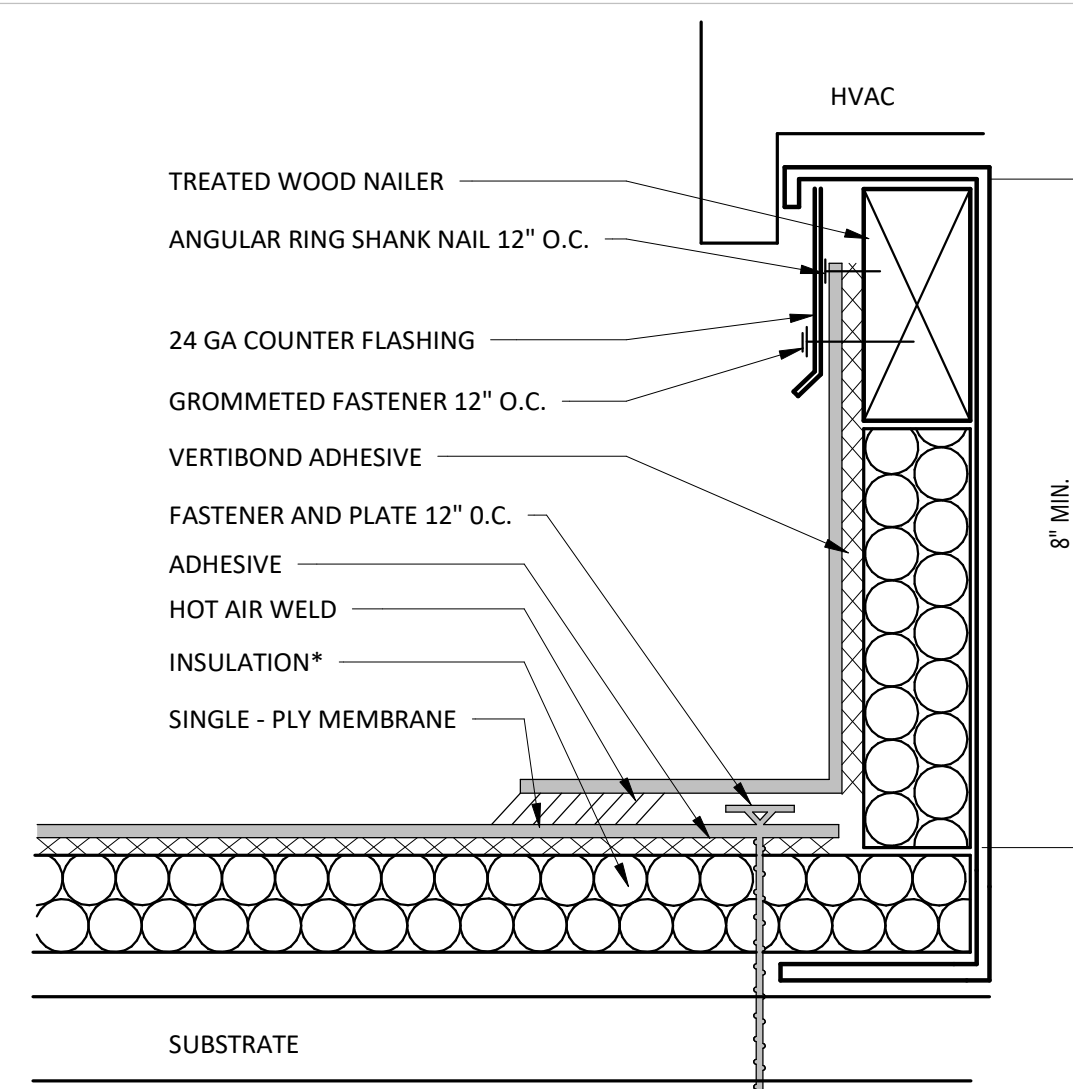
A131

DESCRIPTION	FURNISHED BY	INSTALLED BY	UTILITY				REMARKS
			ELEC	GAS	WATER	SEWER	
Exhaust Fans & Curbs	HS	GC	●				Curb furnished by HS, installed by GC
Make Up Air Unit & Curbs	HS	GC	●	●	●	●	Curb furnished by HS, installed by GC
Roof Top Units & Curbs	HES	GC	●	●	●	●	Curb furnished by HS, installed by GC
Test & Balance System	TAB	-					Furnish HVAC Test & Balance per Tenant's National Account Program.



1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. EPDM TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.

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



1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. USE PREFABRICATED OUTSIDE CORNERS.
4. INSULATION MUST BE SECURELY FASTENED.
5. *GLASS - FACED POLYISO INSULATION IS OPTIONAL AND MAY NOT BE REQUIRED ON EVERY PROJECT. IF INSULATION IS NOT REQUIRED, THE MEMBRANE MUST BE ADHERED TO AN APPROVED SURFACE.

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

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

1	EXISTING FULLY ADHERED TPO ROOFING SYSTEM AND RIGID INSULATION - PATCH AND REPAIR AS REQUIRED - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2	EXISTING WOOD JOISTS BELOW SHOWN FOR REFERENCE ONLY - REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3	SIGNAGE BY TENANTS VENDOR - GENERAL CONTRACTOR TO PATCH AND REPAIR ADJACENT WALL AS REQUIRED FOR SIGN INSTALLATION - GENERAL CONTRACTOR TO COORDINATE SIGNAGE PENETRATIONS WITH SIGNAGE VENDOR.
4	OVERFLOW ROOF DRAIN LOCATION - GENERAL CONTRACTOR IS RESPONSIBLE OF SNAKE CLEANING PRIOR TO BUILDING TURNOVER.
5	PRIMARY ROOF DRAIN LOCATION - GENERAL CONTRACTOR IS RESPONSIBLE OF SNAKE CLEANING PRIOR TO BUILDING TURNOVER.
6	EXISTING ROOF LADDER LOCATION AT EAST END OF BUILDING.
7	ALL ROOF PENETRATIONS, INCLUDING MINOR ROOF VENTS AND SIMILAR ITEMS, MAY NOT BE INDICATED ON PLAN - GENERAL CONTRACTOR TO VERIFY AND COORDINATE SCOPE SO AS TO INDICATE ALL ROOFING AND FLASHING WORK SO AS TO OBTAIN AND/OR MAINTAIN EXISTING ROOFING WARRANTIES.
8	LOCATIONS OF ALL ROOF PENETRATIONS ARE TO BE VERIFIED WITH APPROPRIATE SUBCONTRACTOR.
9	GENERAL CONTRACTOR TO CLEAN ROOF OF ALL CONSTRUCTION DEBRIS AT PROJECT COMPLETION.
10	HIDDEN LINE INDICATES SOFFIT LOCATION BELOW IN WHICH TERMINATES TO UNDERSIDE OF EXISTING DECK.
11	DASHED LINE INDICATES LOCATION OF HOOD SYSTEM BELOW.
12	THROUGH-ROOF CONDUIT FOR CELL BOOSTER - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

The logo for Wilkus Architects, featuring the letters 'wa' in a large, lowercase, sans-serif font, with 'WILKUS ARCHITECTS' in a smaller, uppercase, sans-serif font below it.

CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
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PROJECT INFORMATION:

STORE NO.: #5421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST.,
CHARLOTTE, NC 28262

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MATTHEW M. WILKUS
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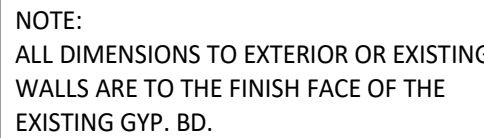
ISSUE RECORD:	
5/24/2024	PERMIT SET
7/10/24	BID SET
9/23/24	CONSTRUCTION SET

 REVISIONS:

ARCHITECTURAL ROOF PLAN

SHEET NUMBER:

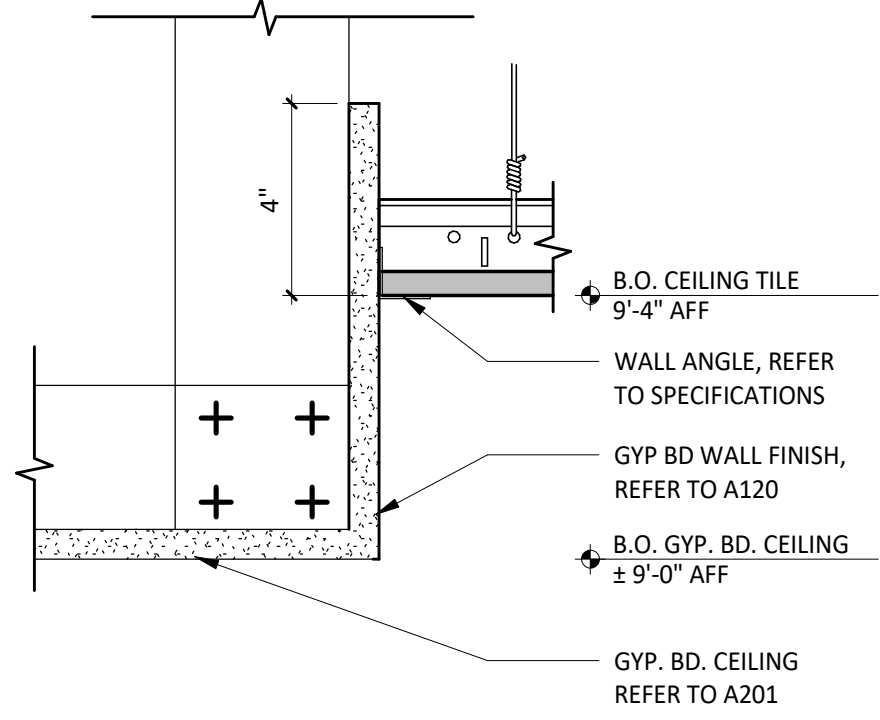
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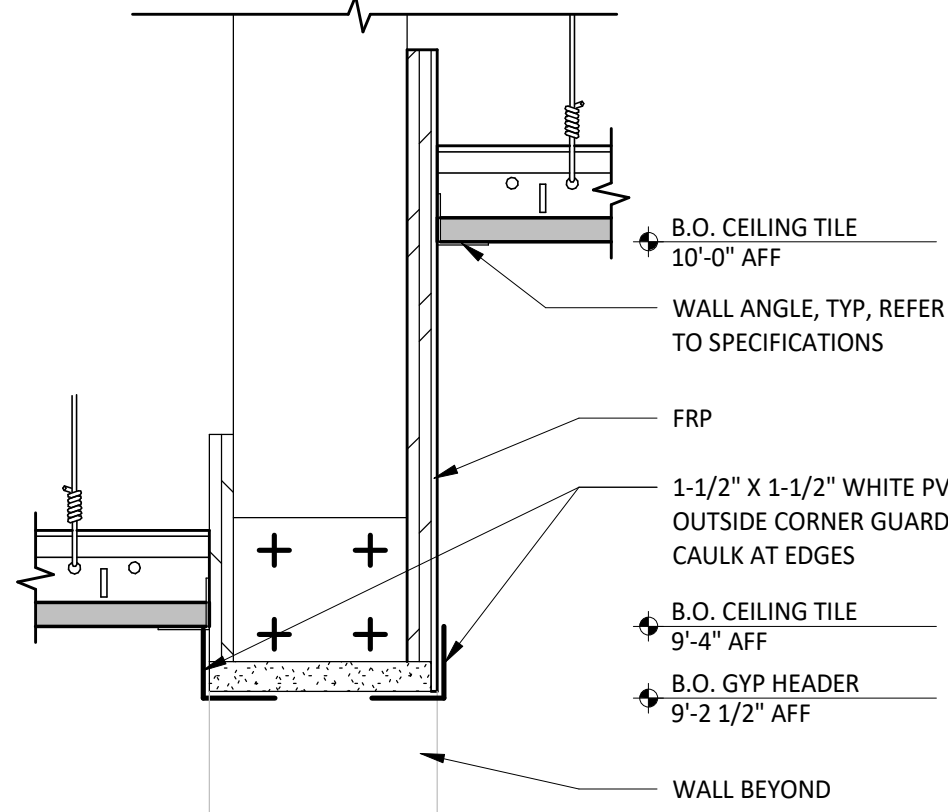
SCALE: 1/4" = 1'-0"

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

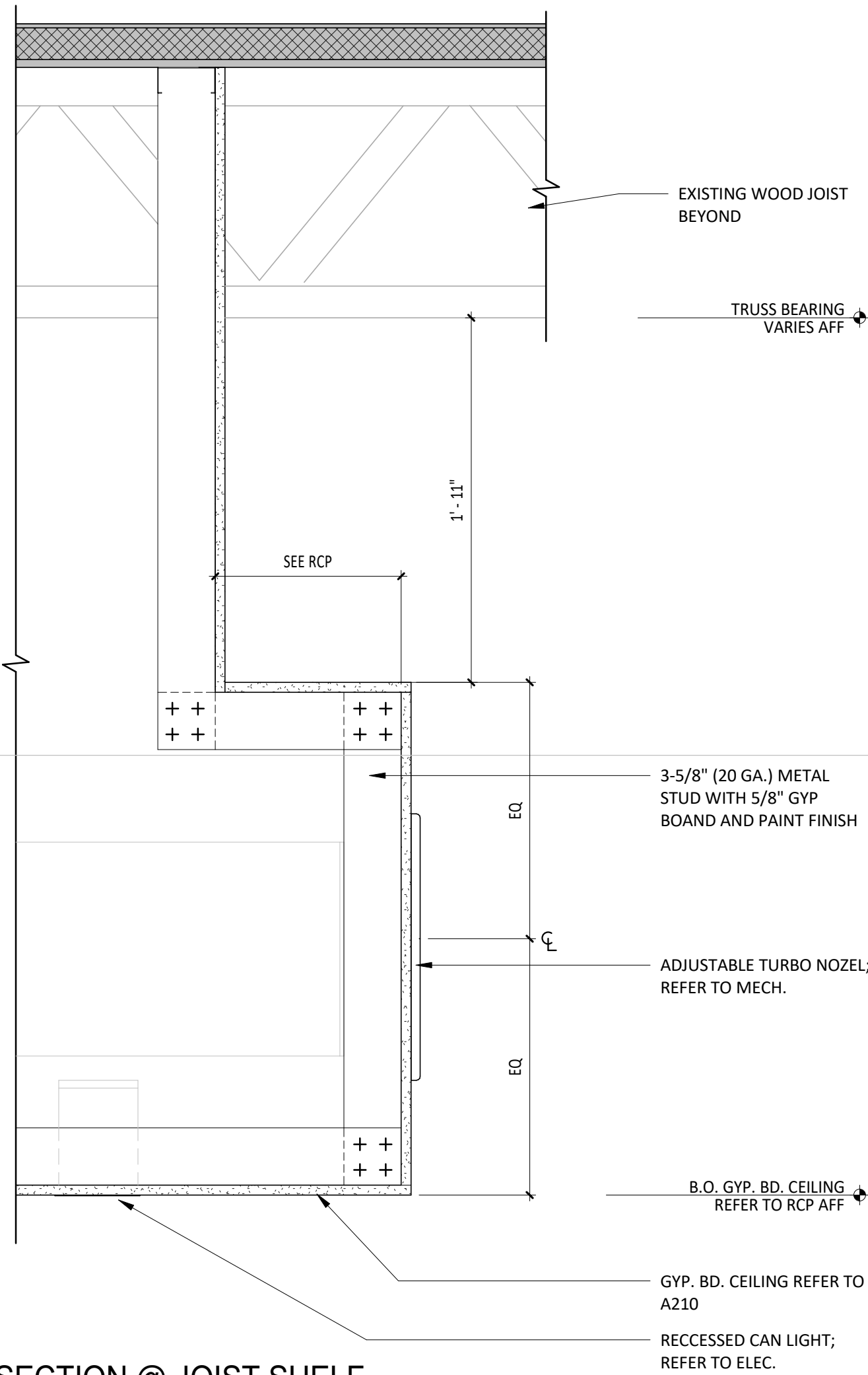
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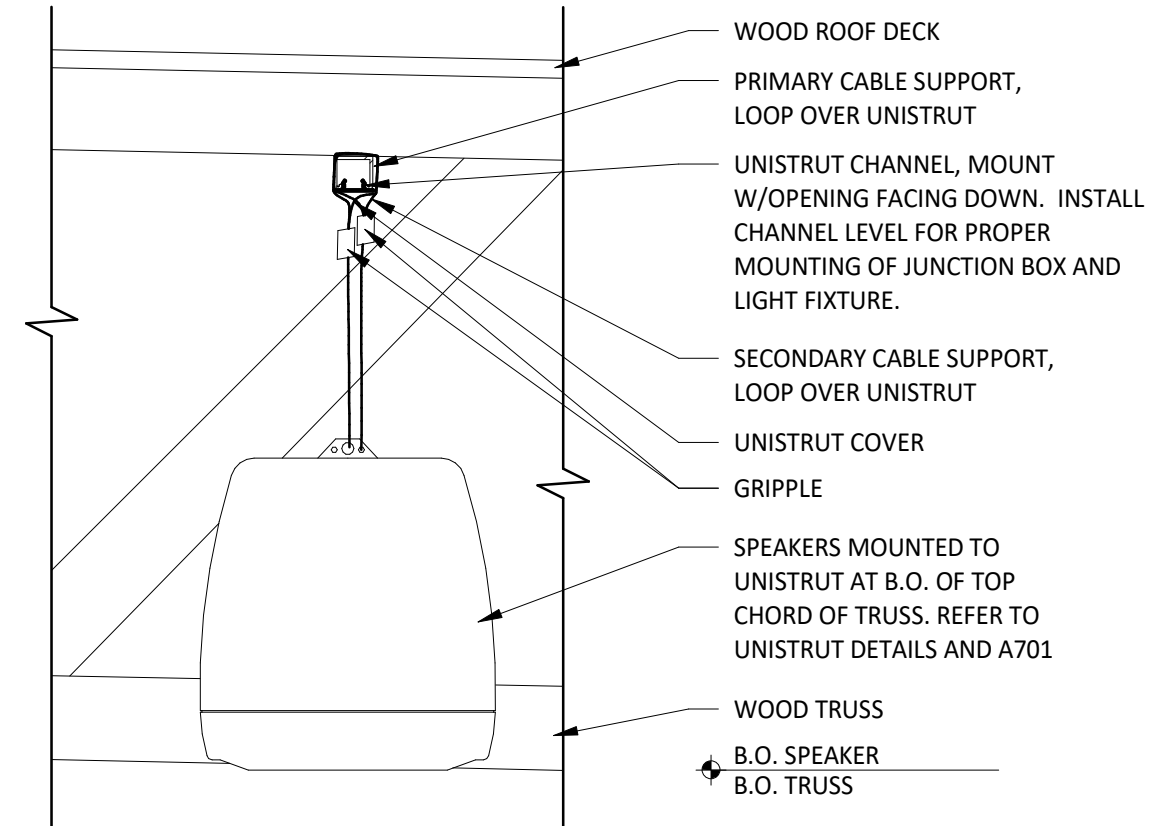
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SCALE: 3" = 1'-0"



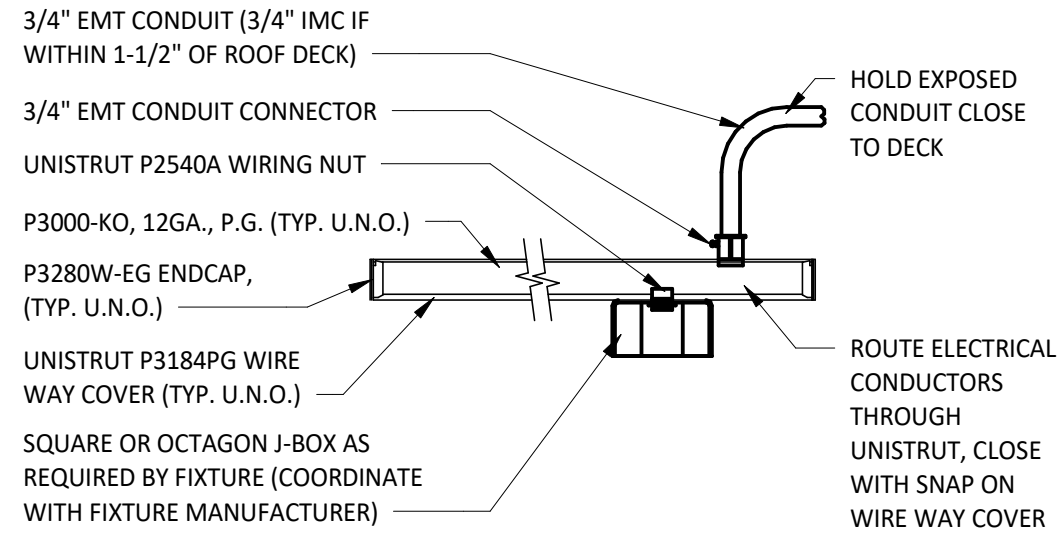
2 KITCHEN CEILING TRANSITION
SCALE: 3" = 1'-0"



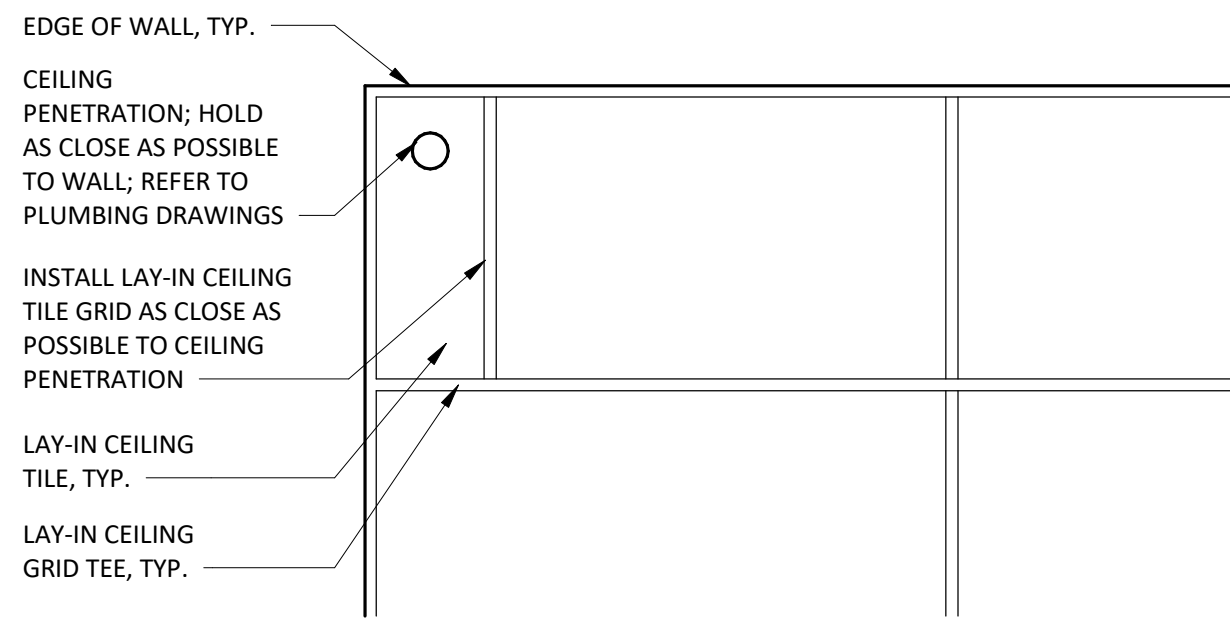
5 SECTION @ JOIST SHELF
SCALE: 1 1/2" = 1'-0"



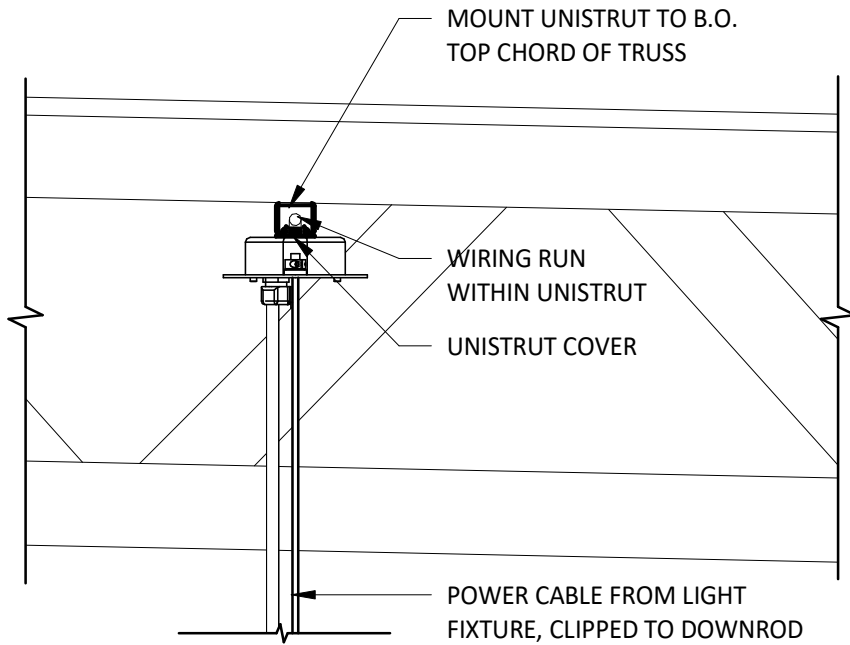
6 SUSPENDED SPEAKER INSTALLATION
SCALE: 1 1/2" = 1'-0"



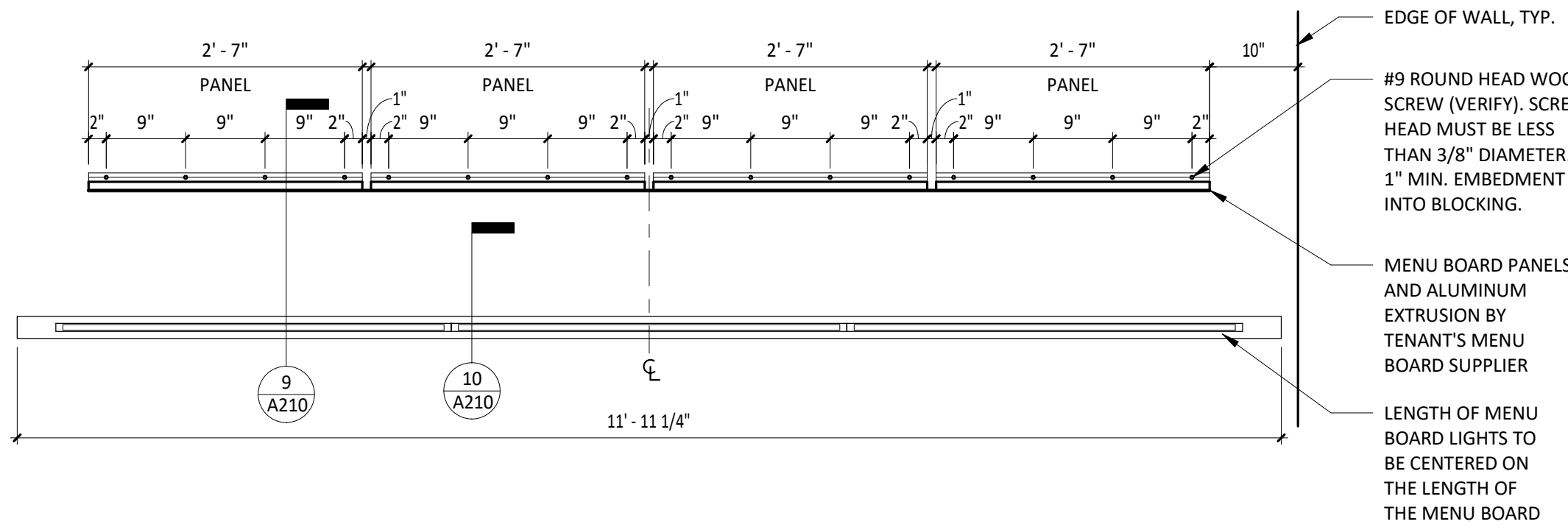
3 UNISTRUT MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



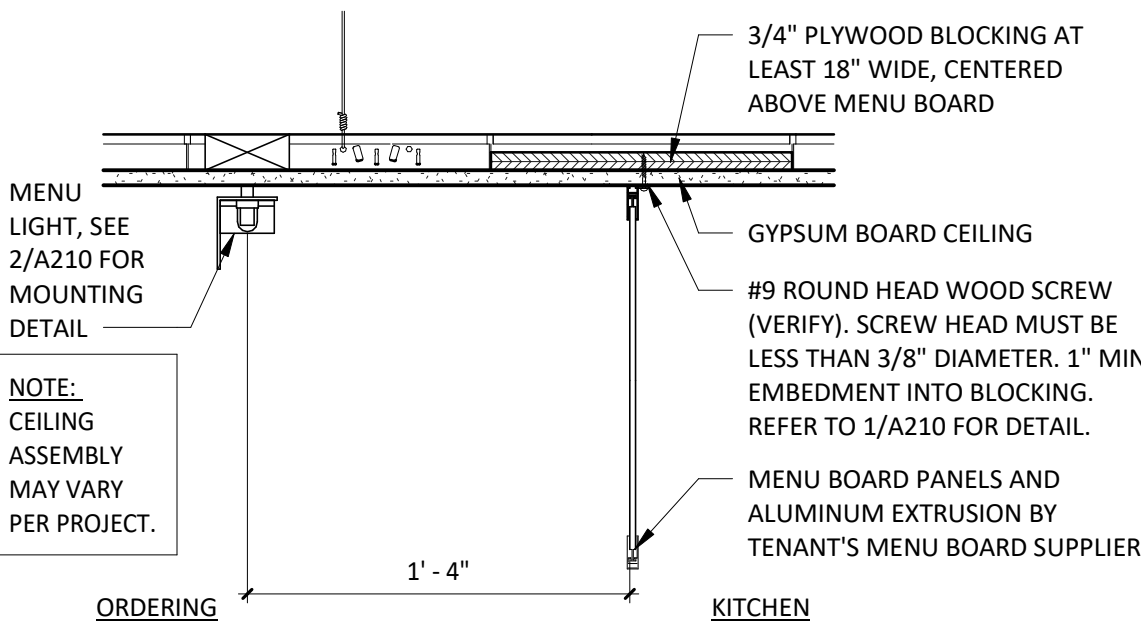
4 LAY-IN CEILING PENETRATION - PLAN DETAIL
SCALE: 3/4" = 1'-0"



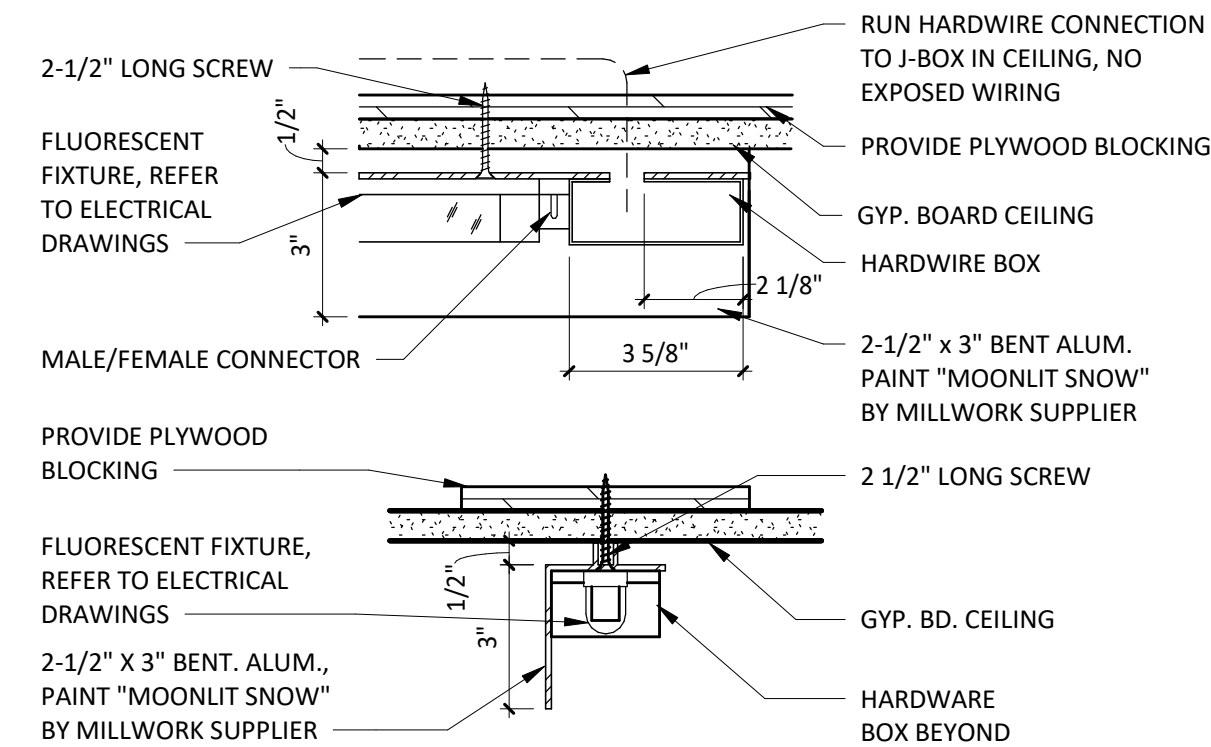
7 TYP. UNISTRUT MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



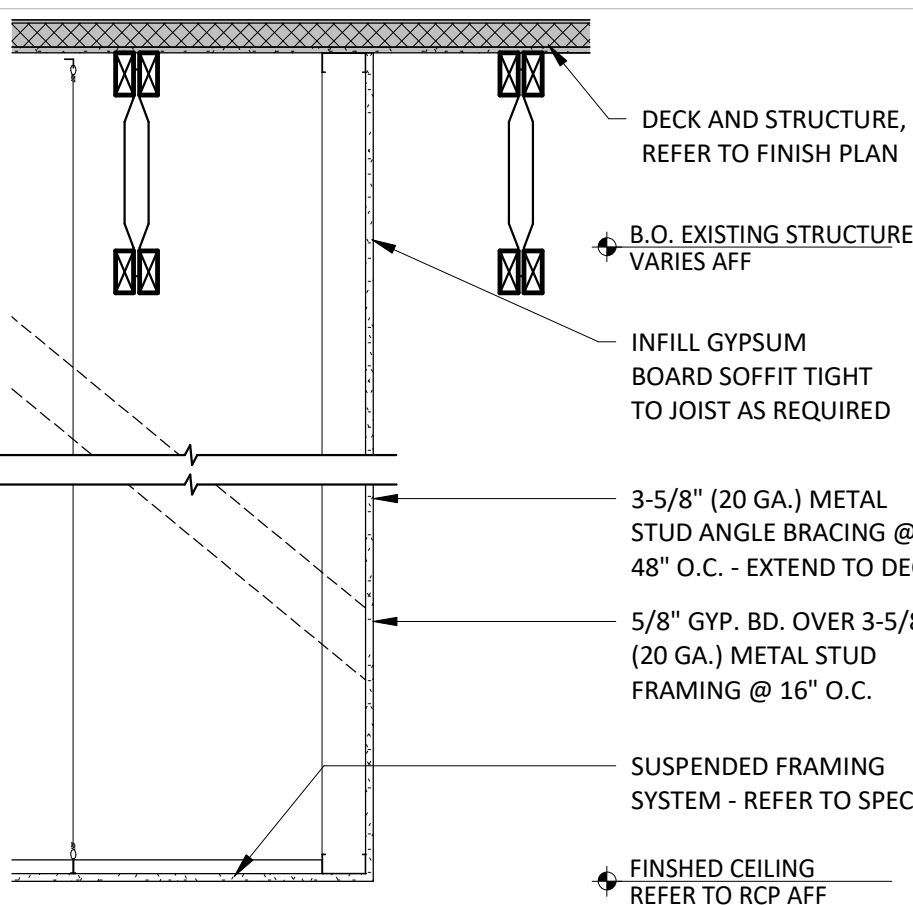
8 MENU - SCREW PATTERN PLAN
SCALE: 3/4" = 1'-0"



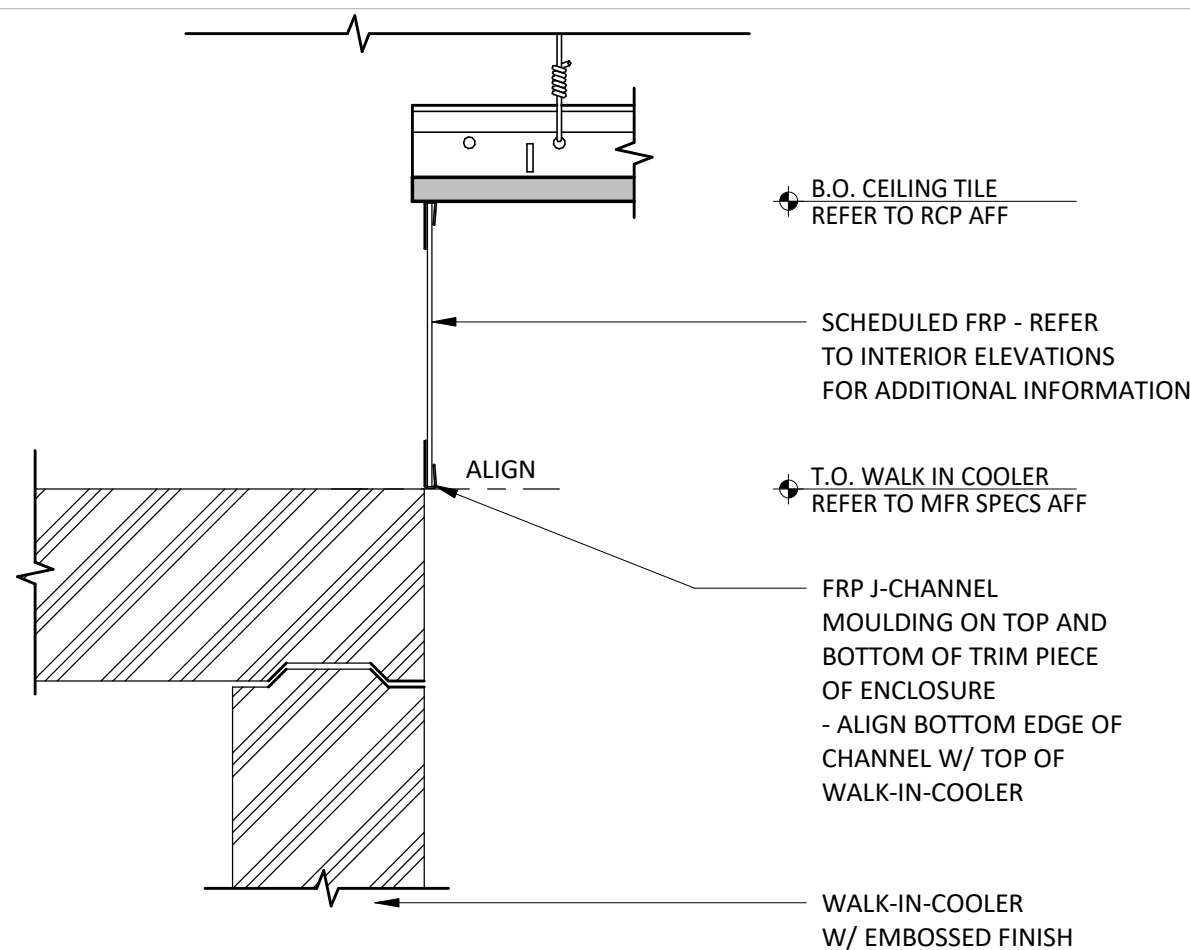
9 MENU BOARD DETAIL
SCALE: 1 1/2" = 1'-0"



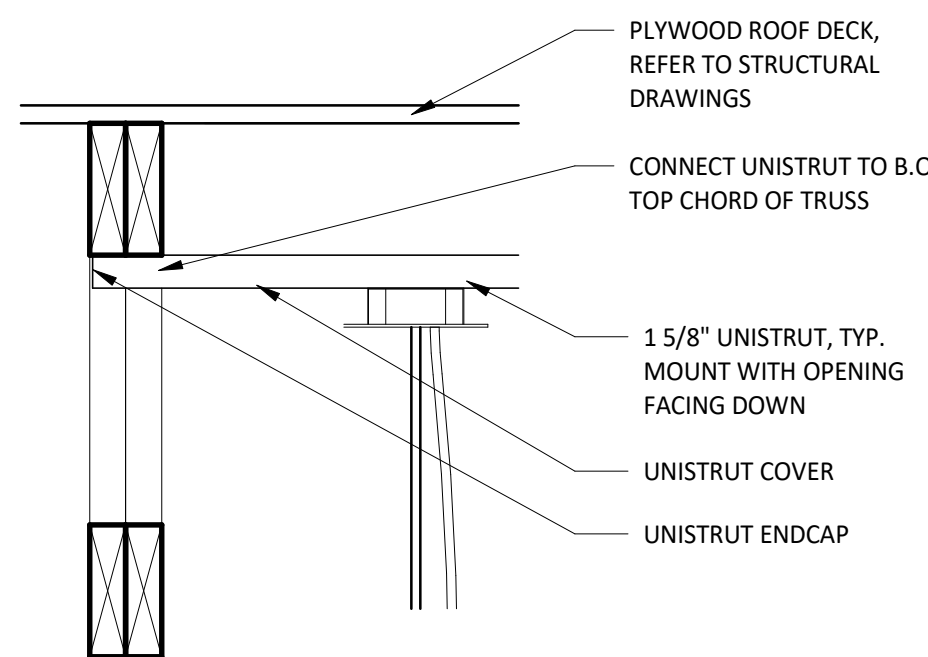
10 MENU BOARD LIGHT DETAIL
SCALE: 3" = 1'-0"



11 SECTION @ SOFFIT
SCALE: 3/4" = 1'-0"



12 KITCHEN CEILING TRANSITION
SCALE: 3" = 1'-0"

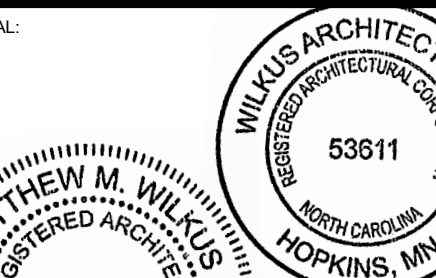


13 TYP. UNISTRUT MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



CLIENT:
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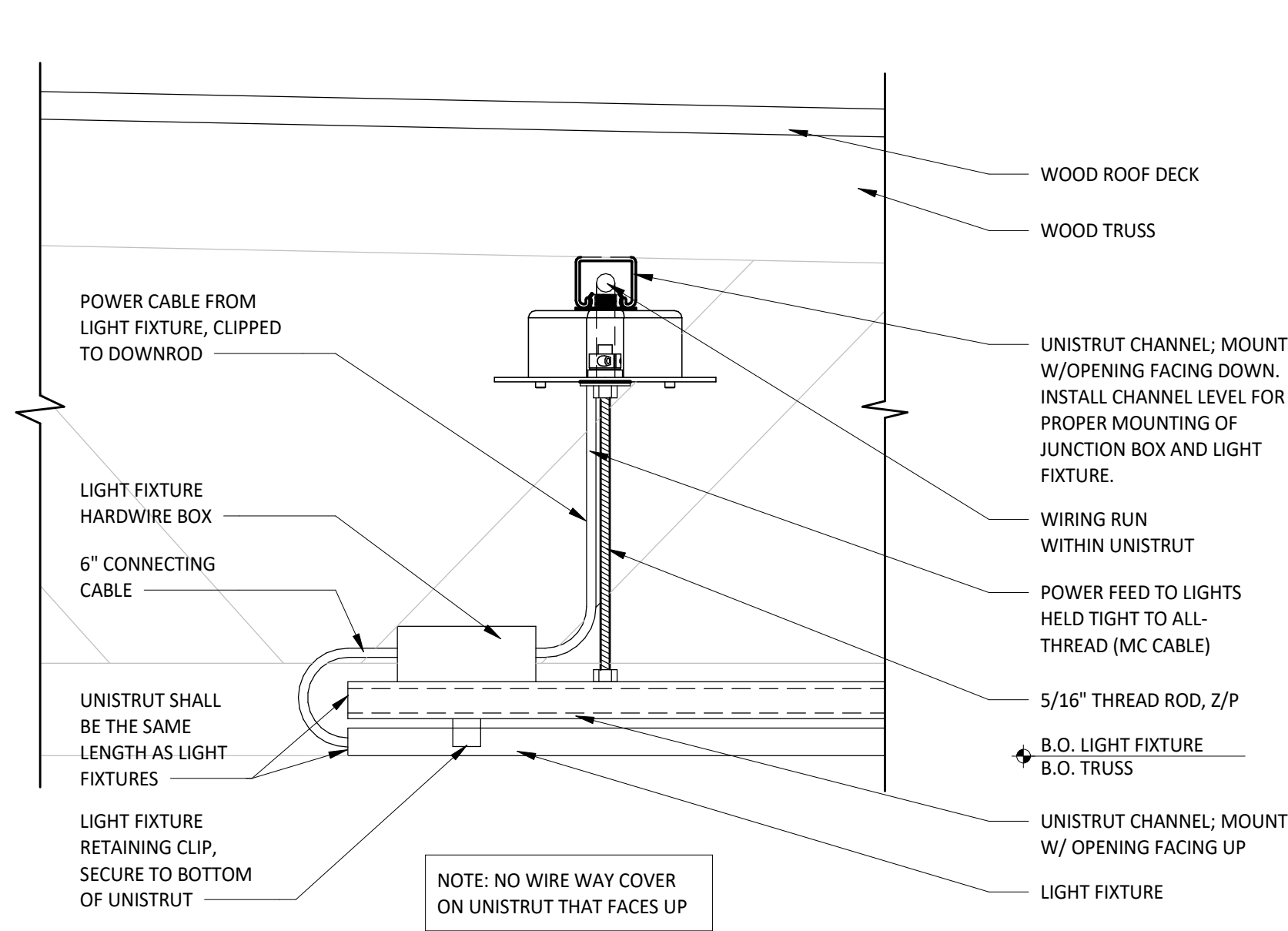
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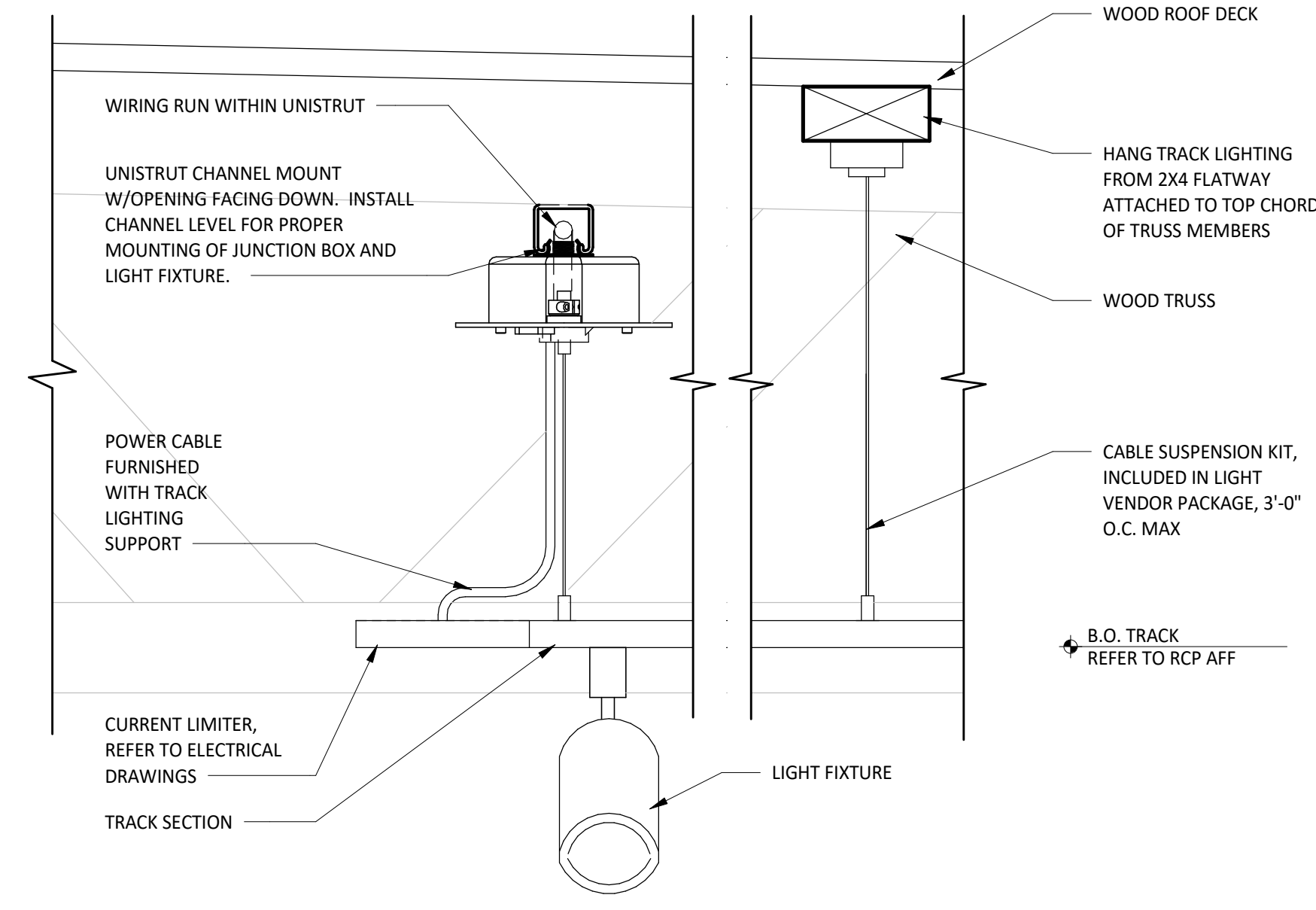
REVISIONS:

TITLE:
CEILING DETAILS

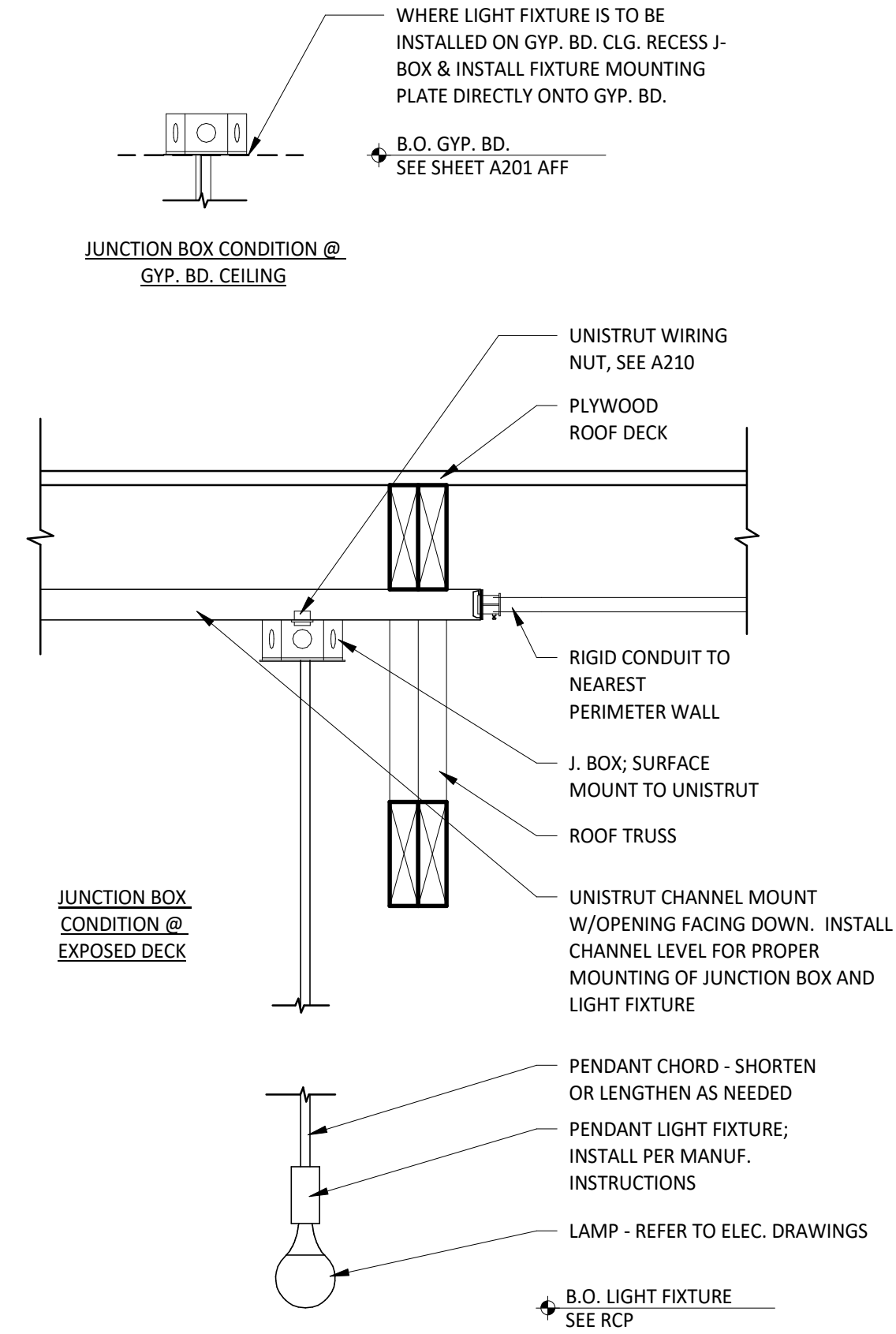
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A210



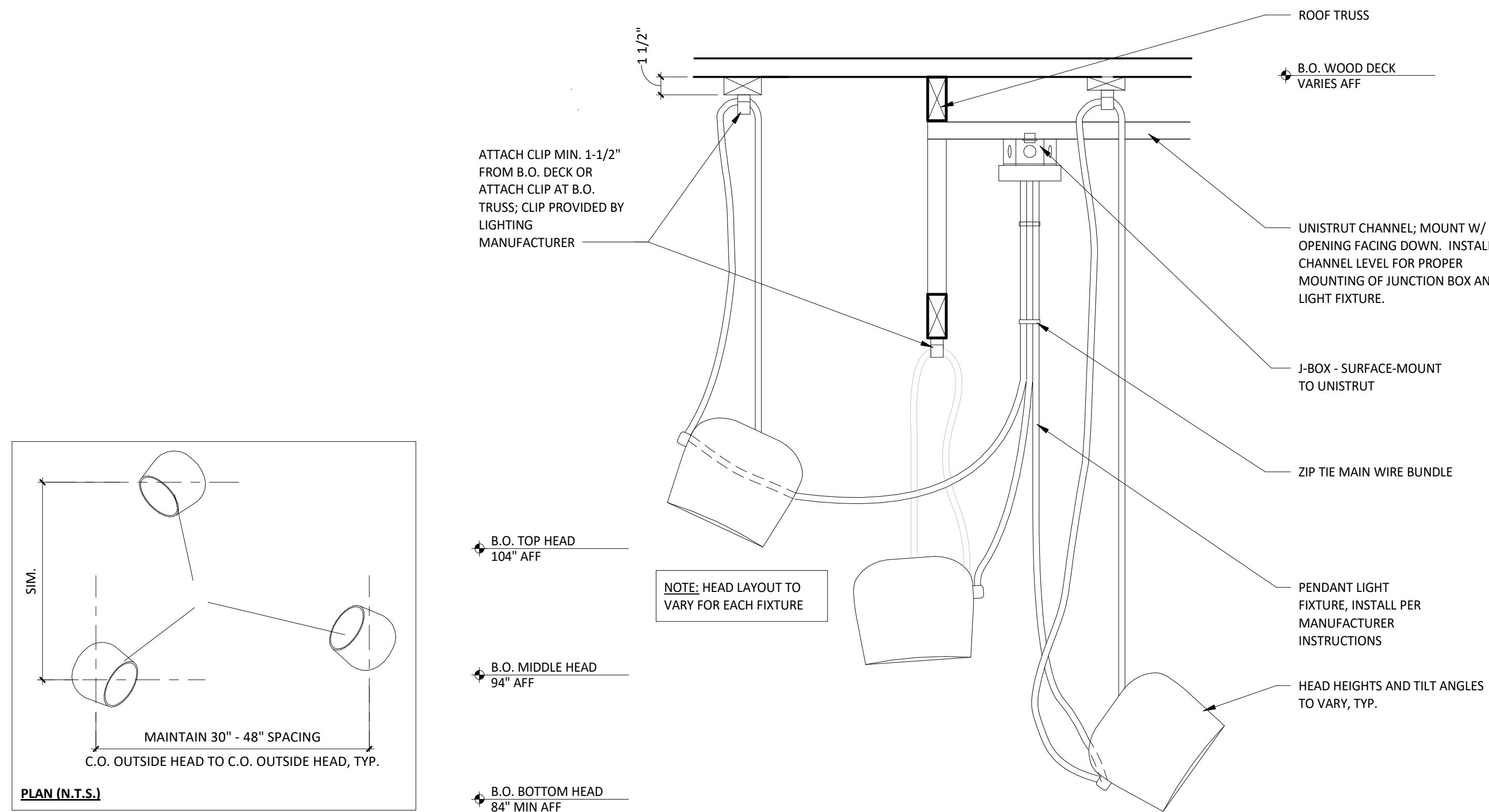
1 SUSPENDED STRIP LIGHT CONNECTION DETAIL
SCALE: 3" = 1'-0"



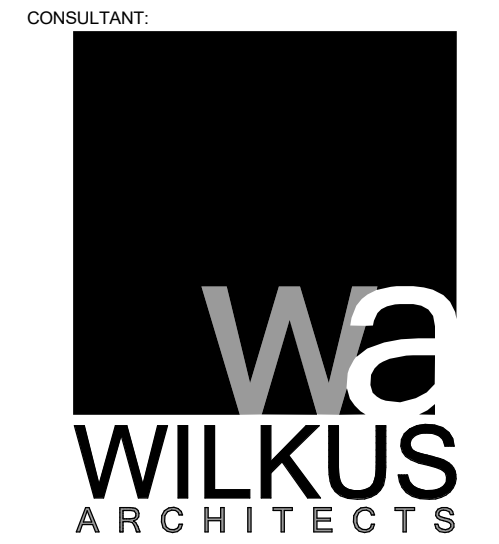
2 SUSPENDED TRACK LIGHT CONNECTION DETAIL
SCALE: 3" = 1'-0"



3 PENDANT LIGHT FIXTURE
SCALE: 1 1/2" = 1'-0"



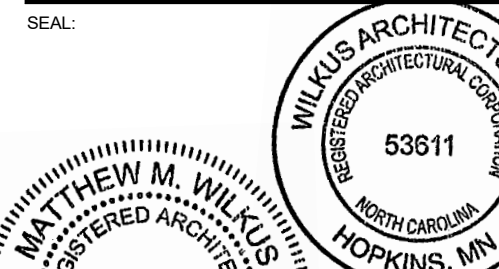
4 PENDANT LIGHT
SCALE: 1 1/2" = 1'-0"



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REVISIONS:

TITLE:
LIGHTING DETAILS

SHEET NUMBER:

A211



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



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



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

GENERAL NOTES - EXT. ELEV.

- A. SIGNAGE IS SHOWN ONLY FOR PLACEMENT AND SCALE. ALL SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT, NOT PART OF THIS PERMIT SET.
B. EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.

KEYNOTE LEGEND

1	LOCATION OF TENANTS BW-3 SIGNAGE - GENERAL CONTRACTOR TO COORDINATE BLOCKING REQUIREMENTS WITH SIGNAGE VENDOR.
2	LOCATION OF SECURITY CAMERAS TO BE INSTALLED BY GENERAL CONTRACTOR.
3	LOCATION OF REMOTE CO2 FILLER - INSTALL BETWEEN 36" AND 48" ABOVE FINISHED GRADE - VERIFY LOCATION WITH CHIPOTLE CONSTRUCTION MANAGER.
4	6" VINYL ADDRESS LETTERS - COORDINATE ADOPTED REQUIREMENTS ON SIZE AND LOCATION WITH LOCAL JURISDICTION.
5	3'-0" PREFINISHED ALUMINUM WIDE STILE STOREFRONT DOORS (BY LANDLORD), WOOD HANDLE PROVIDED BY TENANT MILLWORK SUPPLIER (BY CHIPOTLE)
6	VINYL GRAPHICS SUPPLIED BY TENANT; INSTALLED BY GENERAL CONTRACTOR

CONSULTANT:



CLIENT:



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PO BOX 182966
COLUMBUS, OH 43218-2966
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SEAL:



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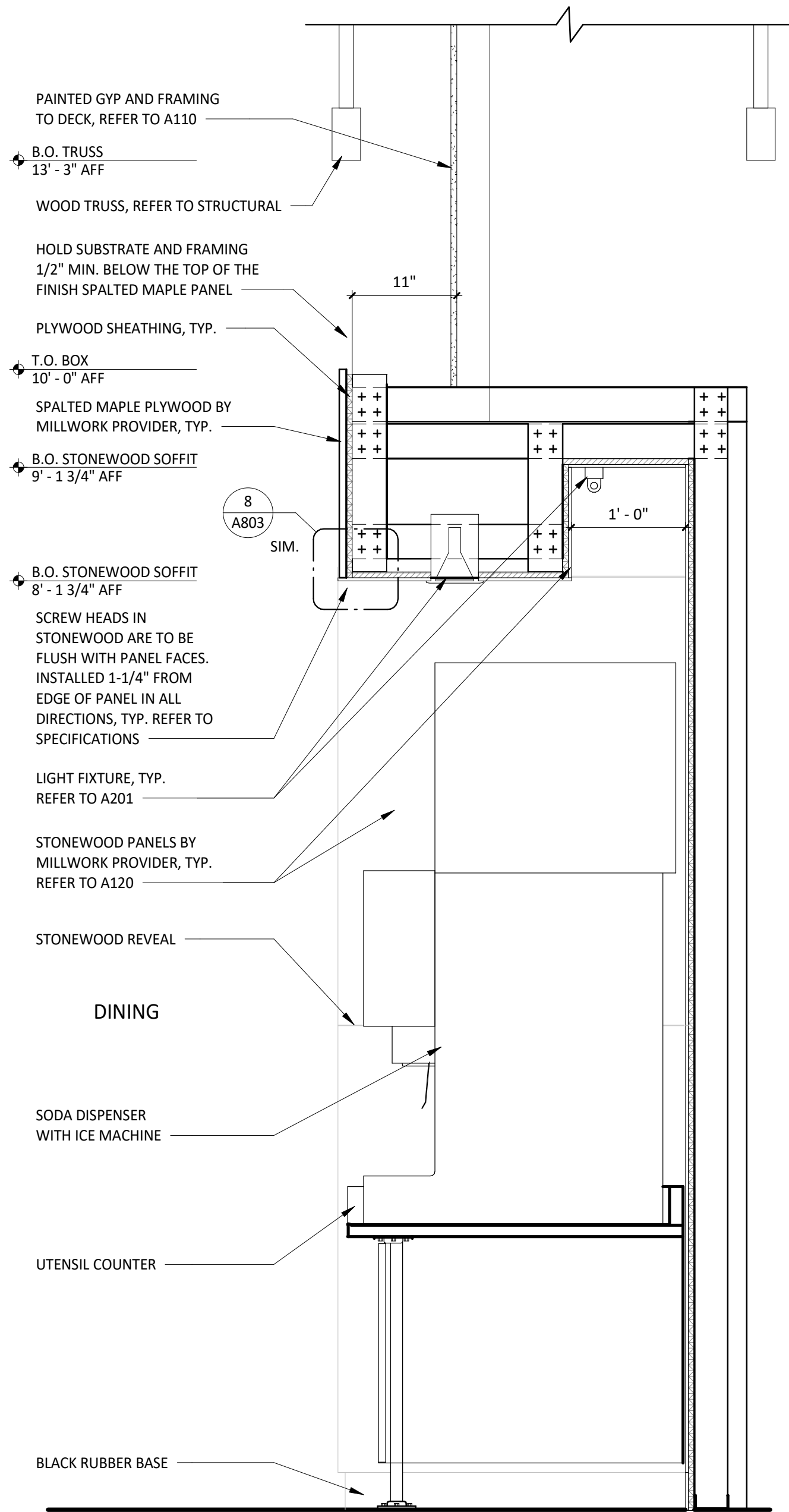
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07/10/24 BID SET
09/23/24 CONSTRUCTION SET

REVISIONS:

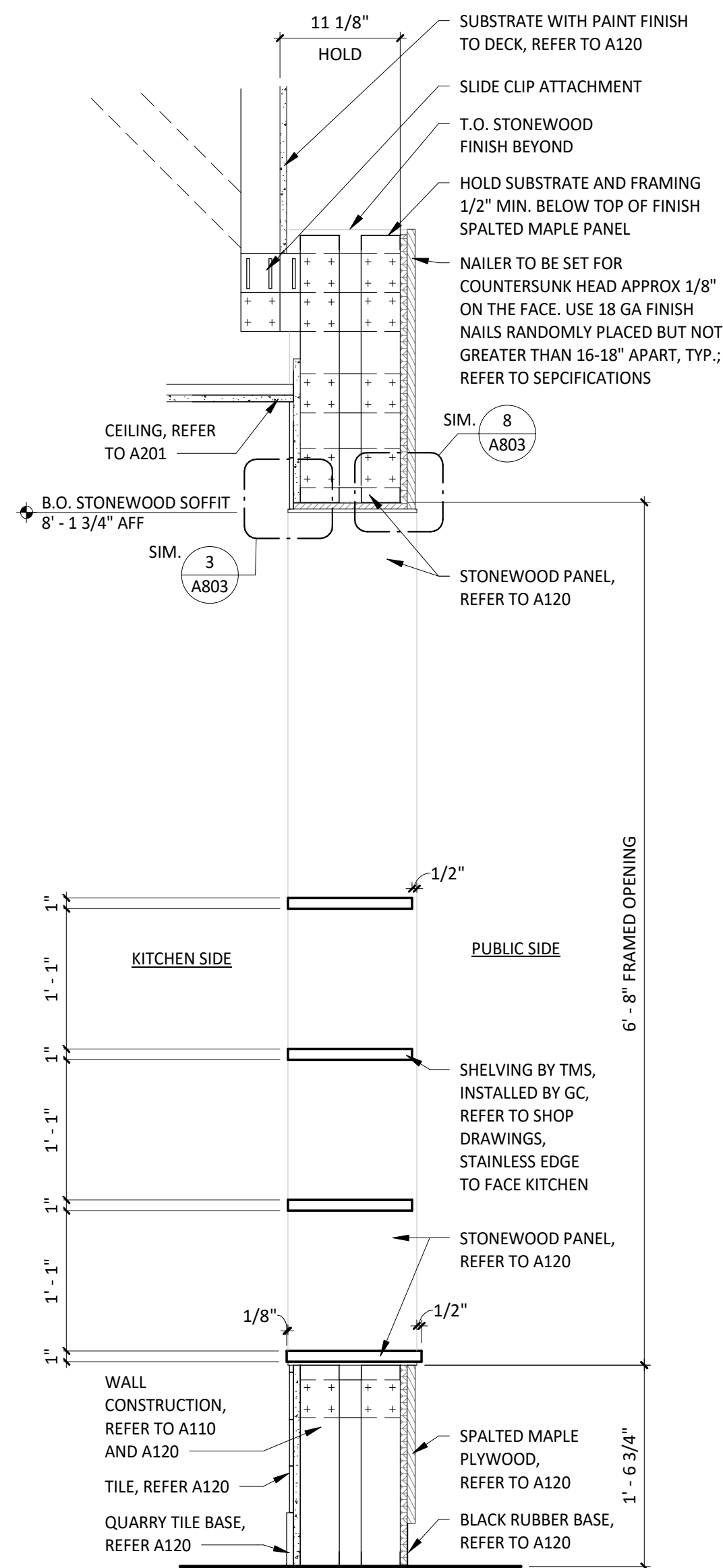
TITLE:
EXTERIOR
ELEVATIONS

SHEET NUMBER:

A301



1 UTENSIL SECTION
SCALE: 1" = 1'-0"



2 MOPUS SECTION - PASS THRU
SCALE: 1" = 1'-0"

CONSULTANT:



CLIENT:



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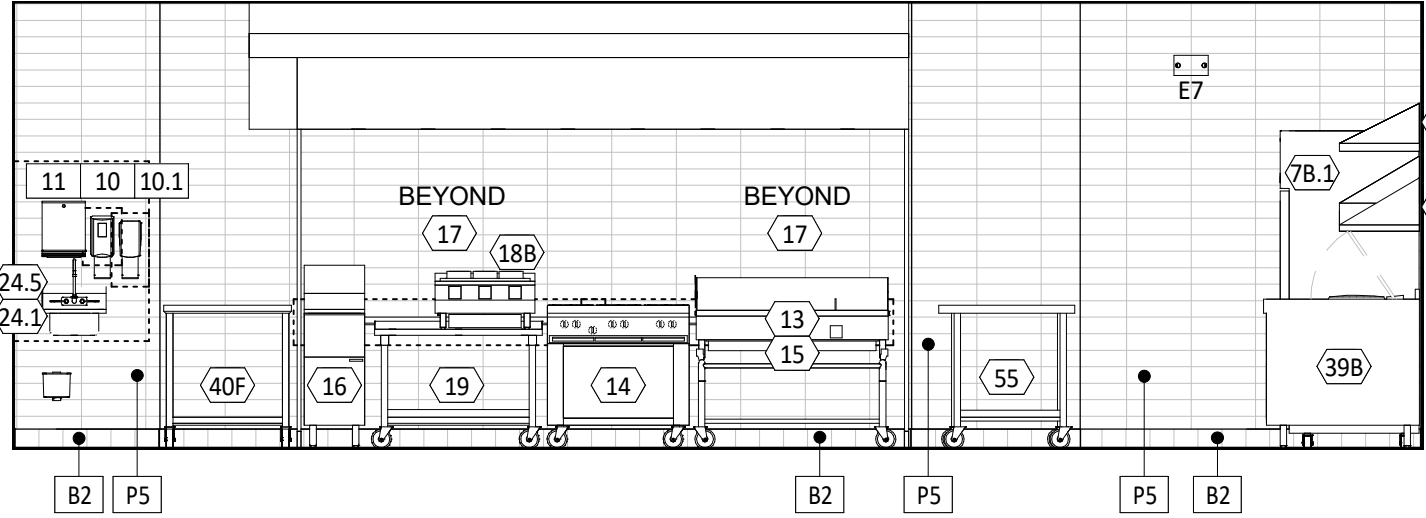
REVISIONS:

TITLE:

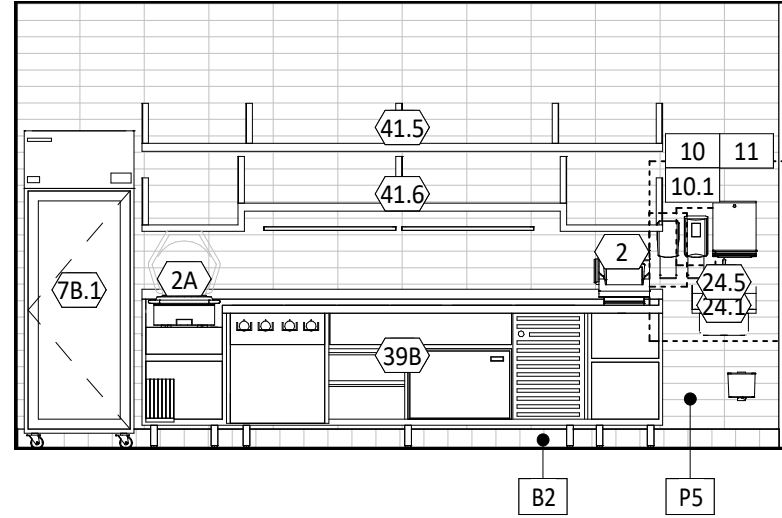
INTERIOR
SECTIONS

SHEET NUMBER:

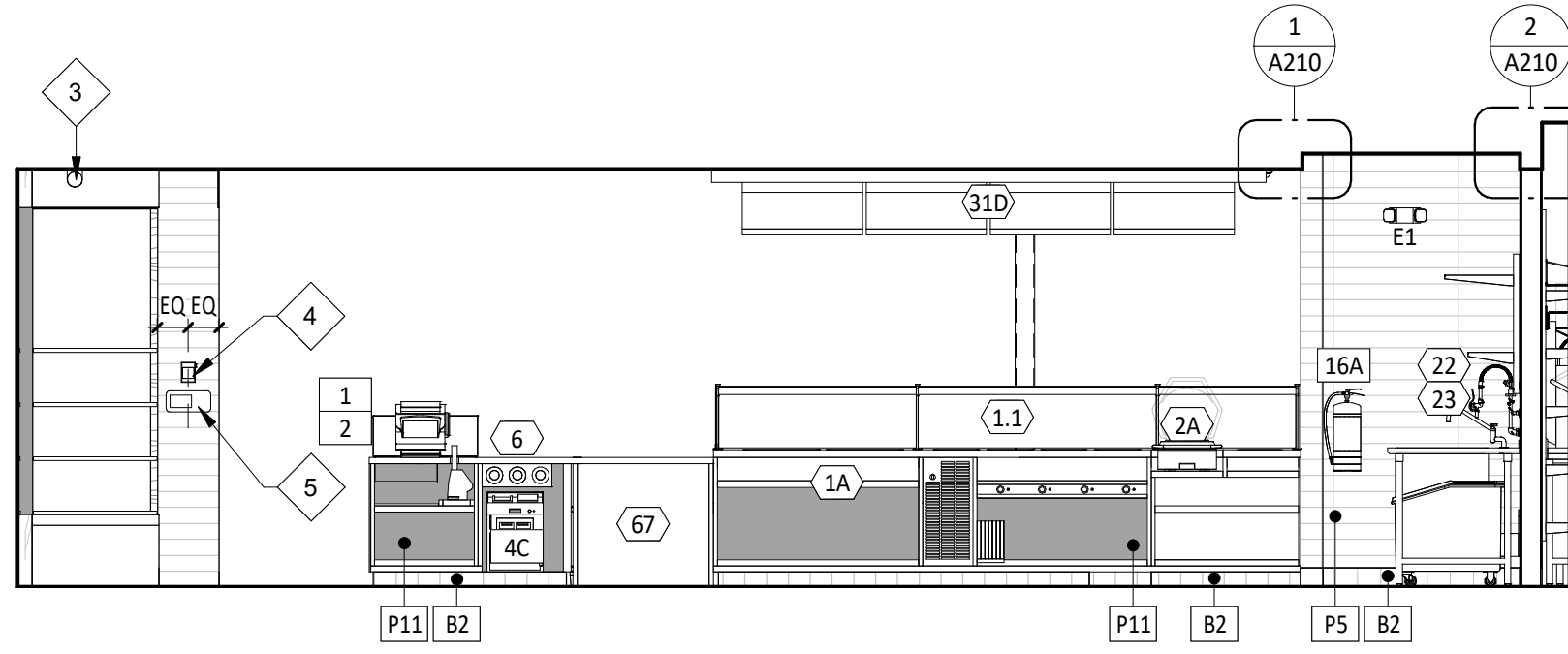
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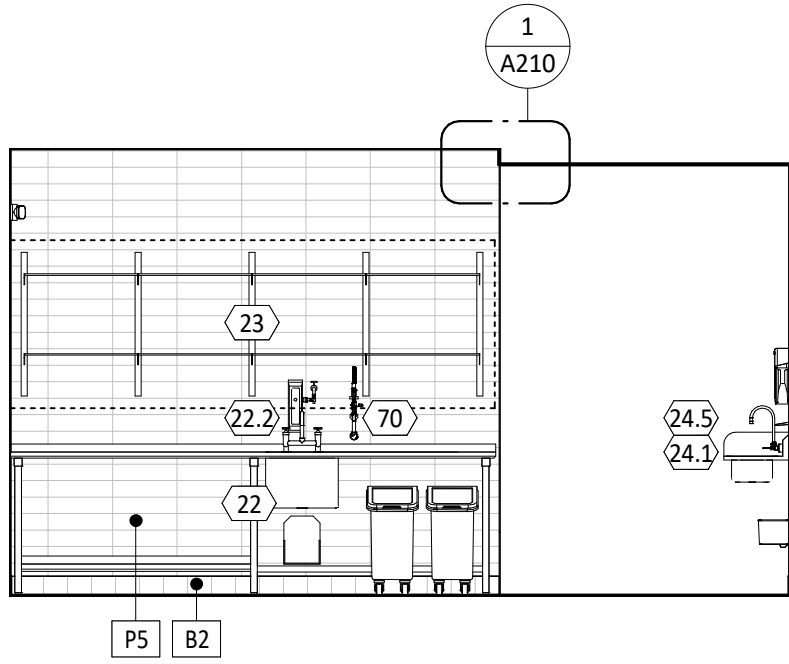
1 ELEV. - INT. KITCHEN
SCALE: 1/4" = 1'-0" A702



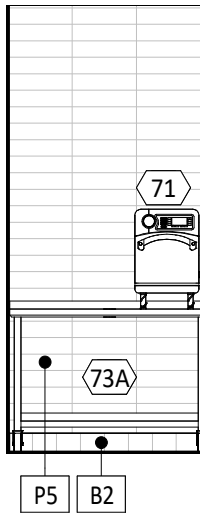
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SCALE: 1/4" = 1'-0" A702



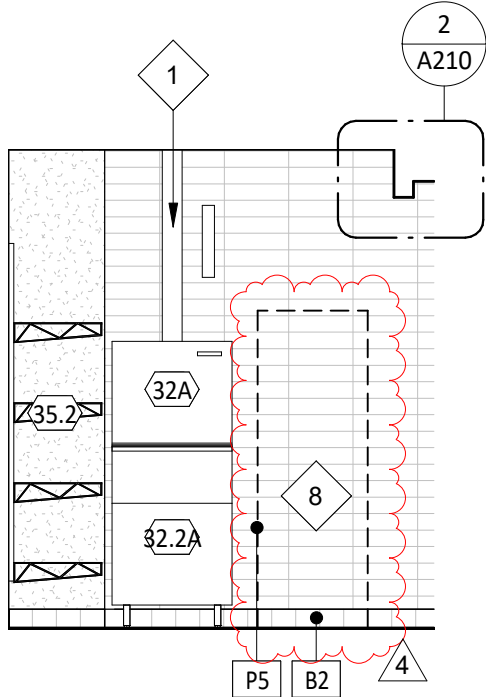
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SCALE: 1/4" = 1'-0" A702



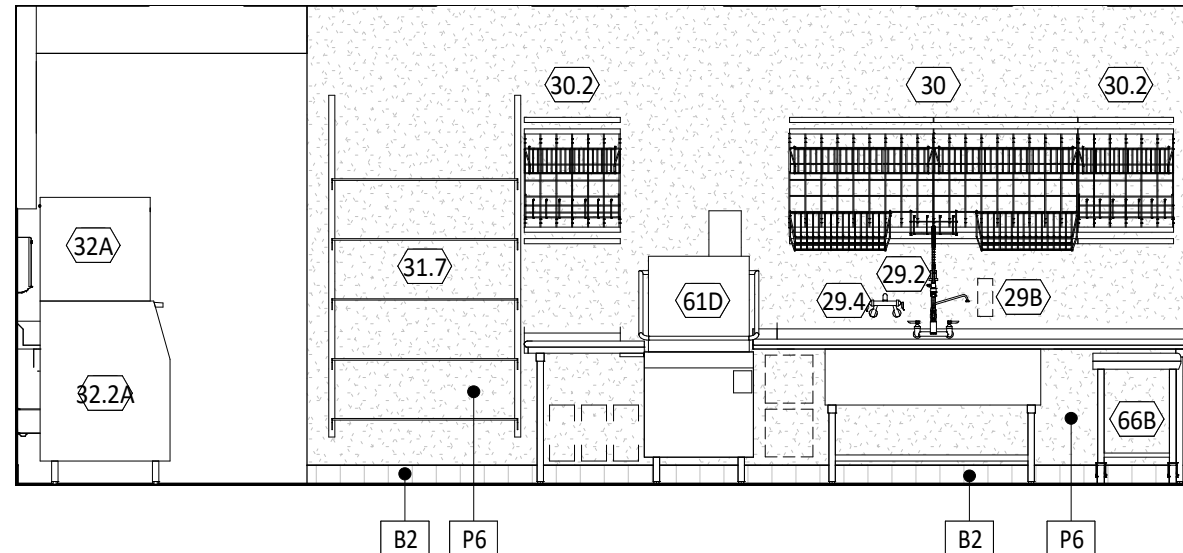
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SCALE: 1/4" = 1'-0" A702



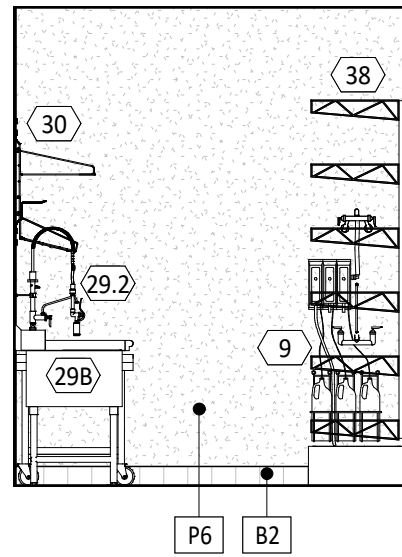
5 UNISEX 1 RESTROOM
SCALE: 1/4" = 1'-0" A702



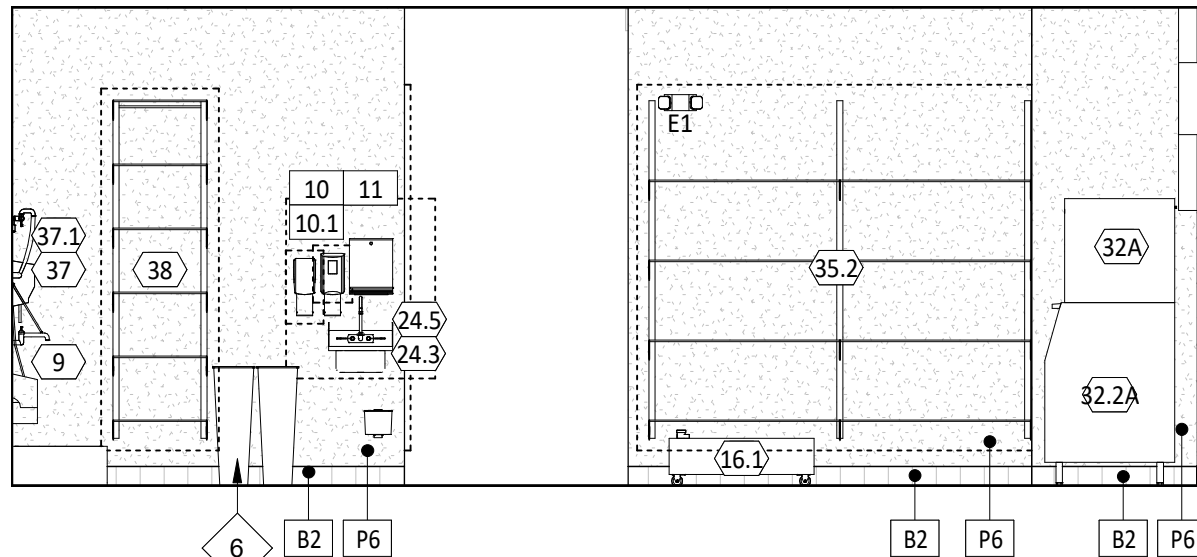
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SCALE: 1/4" = 1'-0" A702



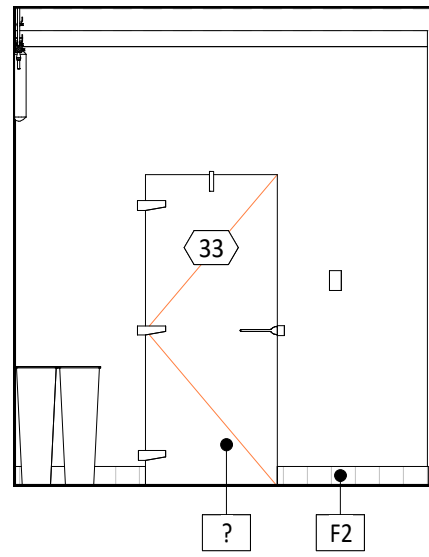
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SCALE: 1/4" = 1'-0" A702



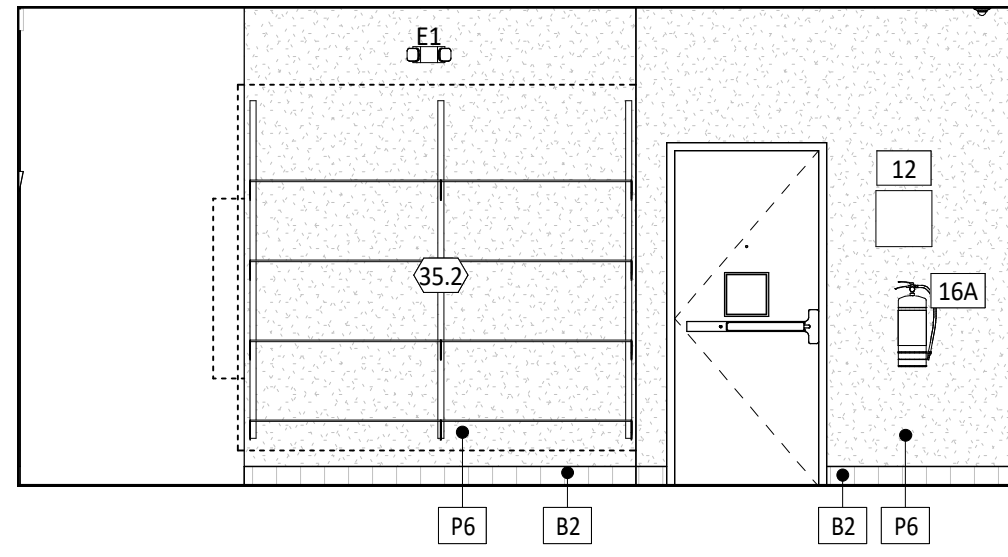
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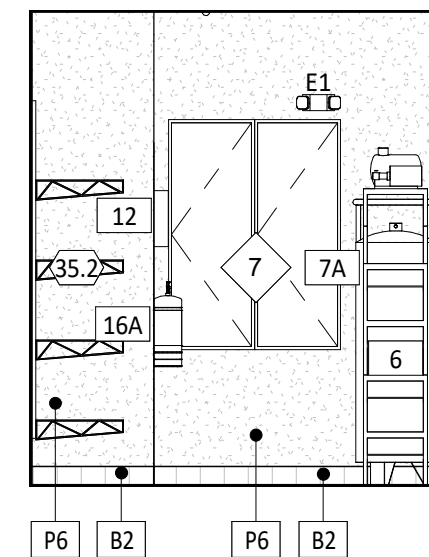
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SCALE: 1/4" = 1'-0" A702



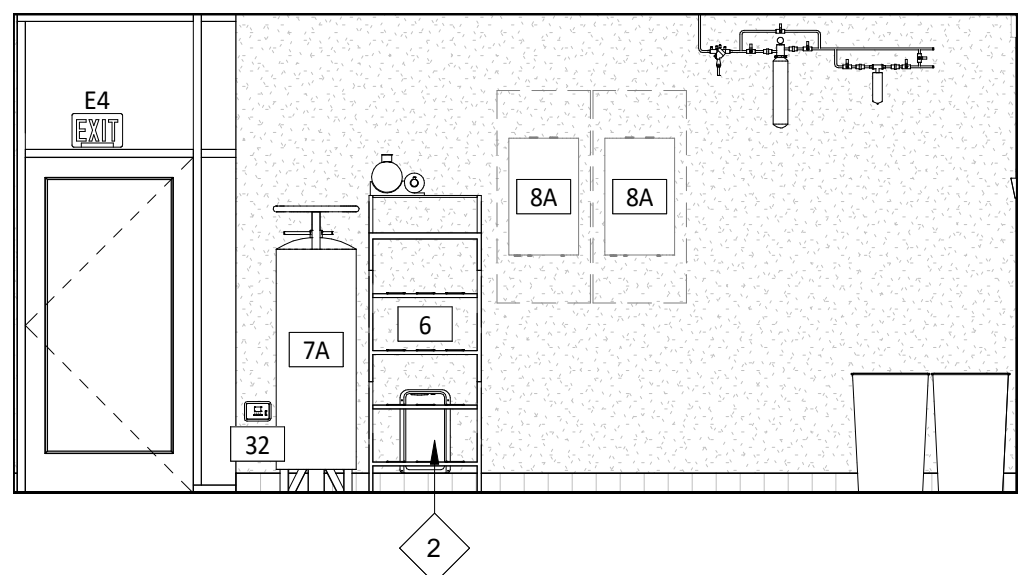
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SCALE: 1/4" = 1'-0" A702



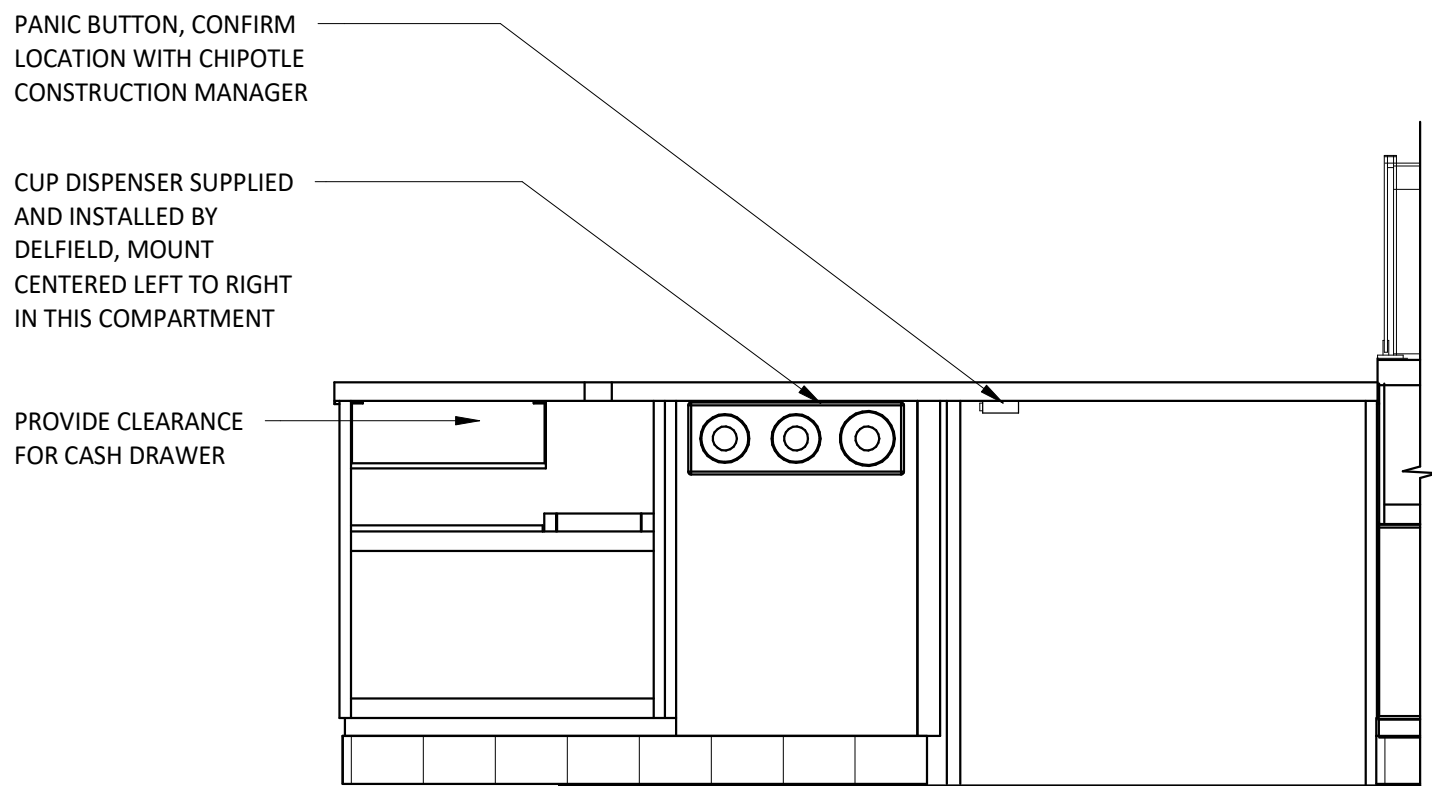
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SCALE: 1/4" = 1'-0" A702



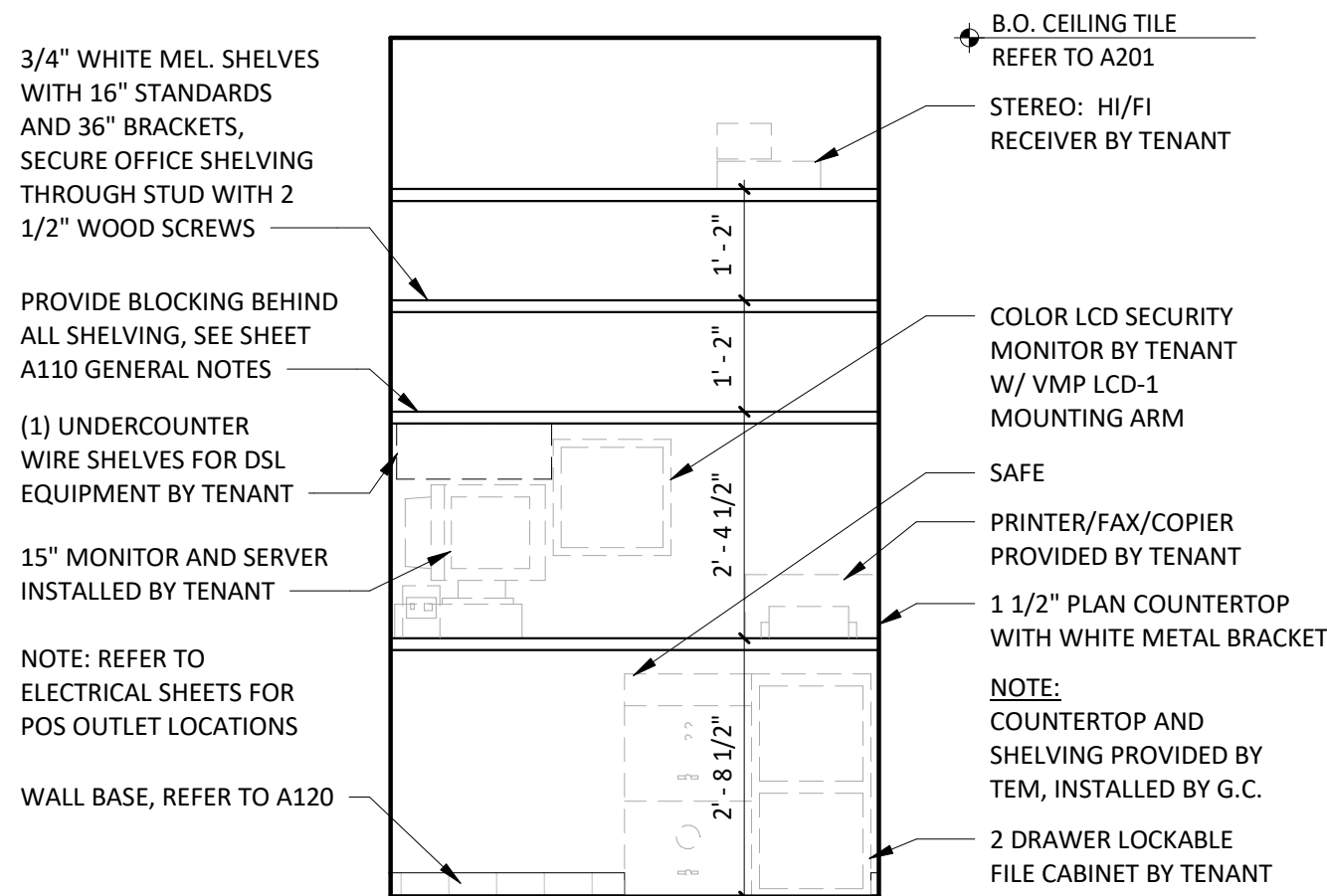
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SCALE: 1/4" = 1'-0" A702



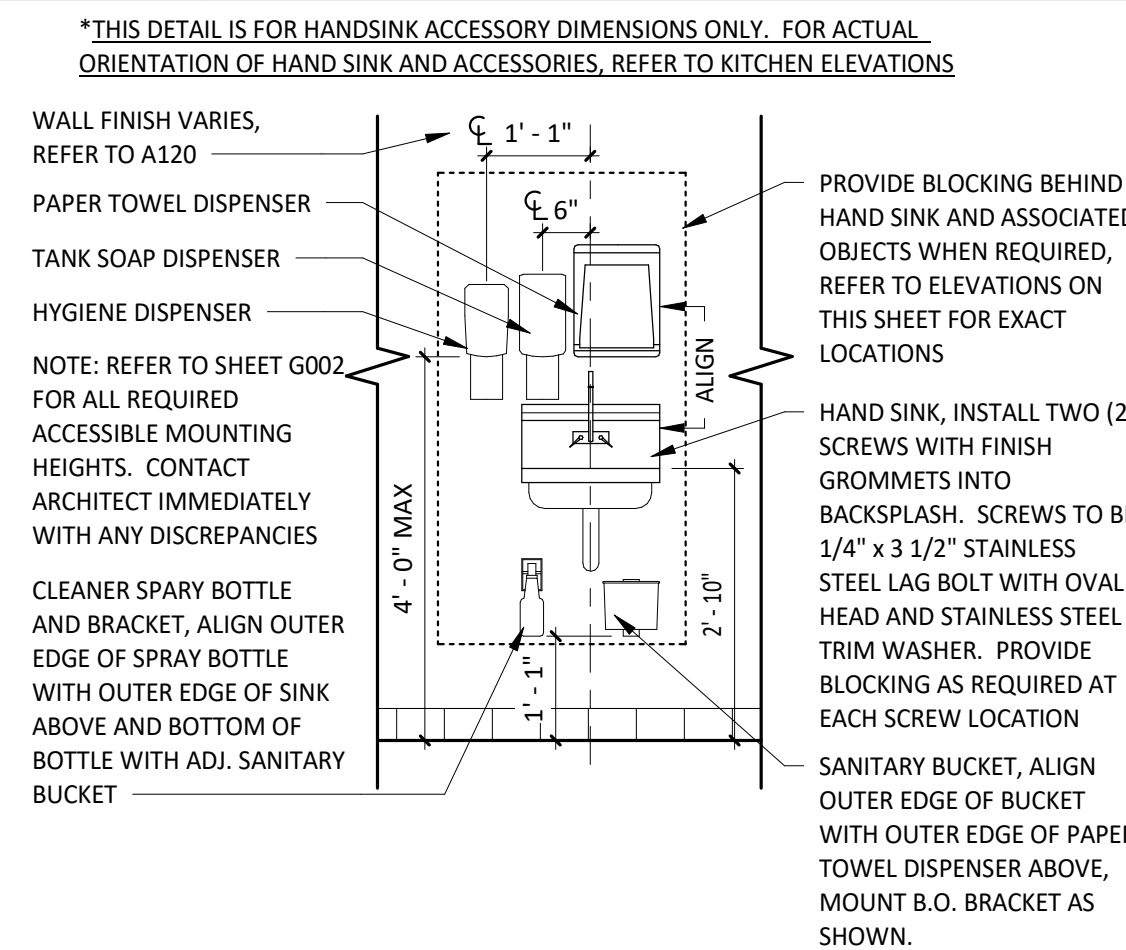
13 UNISEX 2 RESTROOM
SCALE: 1/4" = 1'-0" A702



20 TYP. ELEV - POS
SCALE: 3/4" = 1'-0"



21 TYP ELEV - OFFICE SHELIVING
SCALE: 1/2" = 1'-0"



22 TYP ELEV - HAND SINK
SCALE: 1/2" = 1'-0"

GENERAL NOTES - INT. ELEV.

- REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
- PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELIVING, TYP.
- REFER TO A120 FOR FINISH SCHEDULE.
- REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

ELEVATION LEGEND

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

KEYNOTE LEGEND

- GENERAL CONTRACTOR TO PROVIDE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT ICE MAKERS - REFER TO FINISH PLANS FOR DETAILS.
- SODA CHASE BEYOND - REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- CHIME/STROBE - REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
- ANSUL PULL TO BE LOCATED 48" A.F.F. TO THE CENTER OF UNIT ABOVE THE TIMECLOCK LOCATION.
- KRONOS TIMECLOCK WILL BE LOCATED 44" A.F.F. TO THE TOP OF UNIT - CENTER KRONOS UNIT IN WALL - REFER TO ELECTRICAL DRAWINGS.
- MOVEABLE BACK-UP TRASH BINS FOR DINING AREA TRASH SURROUNDS - TYPICAL OF FOUR (4).
- ELECTRICAL PANEL LOCATIONS, REFER TO ELECTRICAL DRAWINGS FOR DETAILS
- LOCATION OF FUTURE REACH-IN COOLER - REFER TO ELECTRICAL FOR POWER LOCATION.

CONSULTANT:



CLIENT:



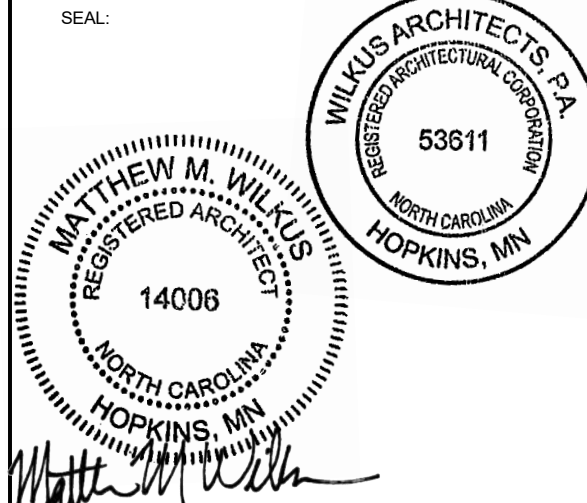
CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182966
COLUMBUS, OH 43218-2966
TELEPHONE: (614) 318-2662
INTERNET: WWW.CHIPOTLE.COM

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PROJECT INFORMATION:

STORE NO.: #5421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115

DRAWN BY TRC

CHECKED BY DLA

ISSUE RECORD:

05/24/2024 PERMIT SET

07/10/24 BID SET

09/23/24 CONSTRUCTION SET

REVISIONS:

4 09.23.2024 2024 DB UPDATES

TITLE:

ELEVATIONS -
INTERIOR KITCHEN

SHEET NUMBER:

A702

RESTROOM ACCESSORIES

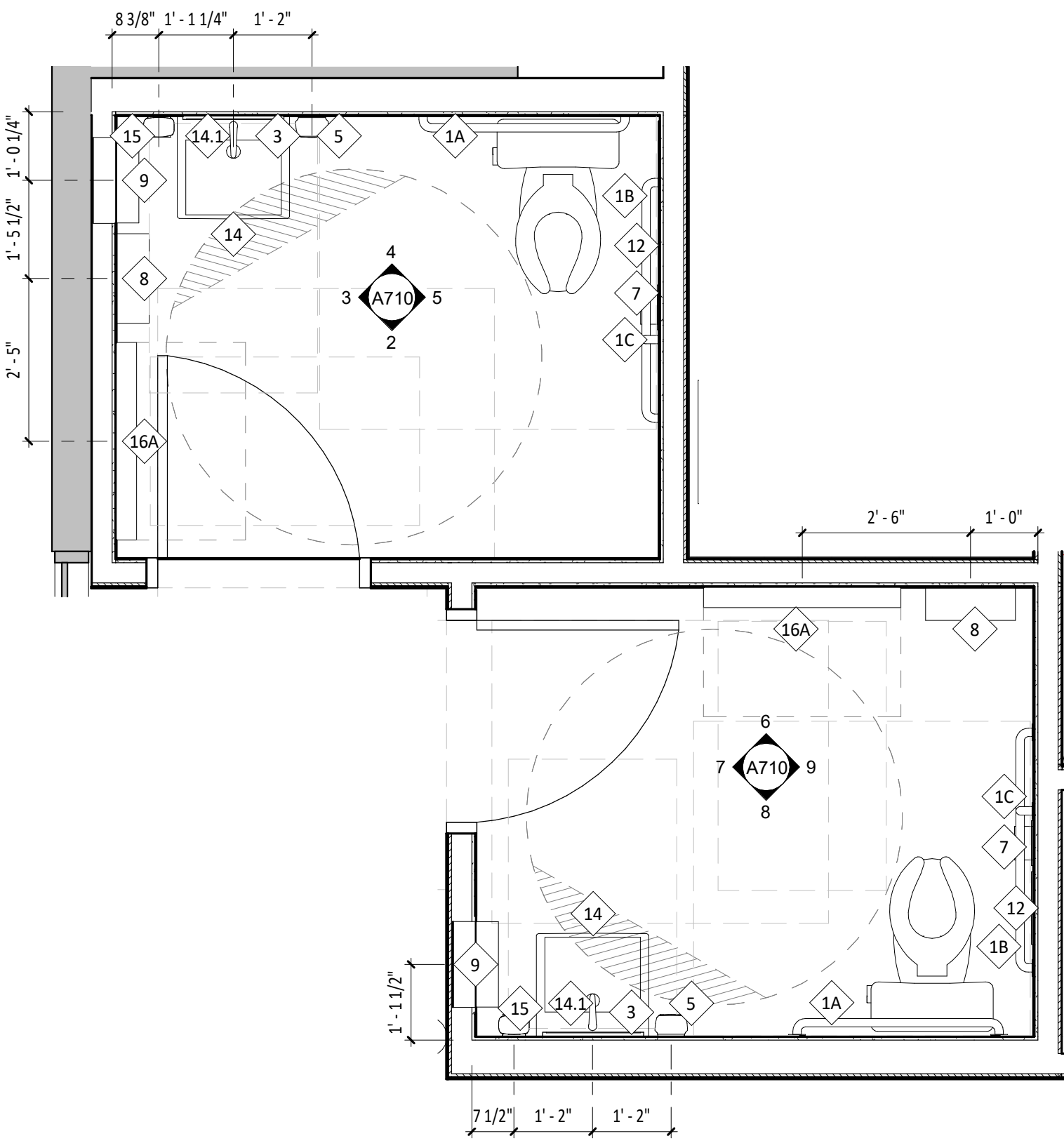
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
1A	Grab Bar - 36in	ASI	3501-36	3	WA	GC					34" AFF to Centerline of Gaspng Surface	Provide Plywood Blocking to Mount to Wall
1B	Grab Bar - 42in	ASI	3501-42	3	WA	GC					34" AFF to Centerline of Gaspng Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	3	WA	GC					40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
3	Mirror	ASI	600-B1836	2	WA	GC					Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	C58	3	WA	GC					47 1/2" AFF To Top Of Dispenser	
7	Recessed Toilet Paper Dispenser	ASI	0031	3	WA	GC					29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF Provide Toggle Bolts to Mount to Wall
8	Utility Shelf	ASI	0692	3	WA	GC					46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	3	WA	GC					Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	0473	3	WA	GC					Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
14	Restroom Hand Sink	SEE MEP	SEE MEP	3	GC	GC				•	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	3	KE5	GC			•			To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.
15	Hand Sanitizer Dispenser	Purell	E58	3	WA	GC					Align T.O. Unit With T.O. Soap Dispenser	
16A	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB200-05	3	WA	GC					Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

GENERAL NOTES - RESTROOM

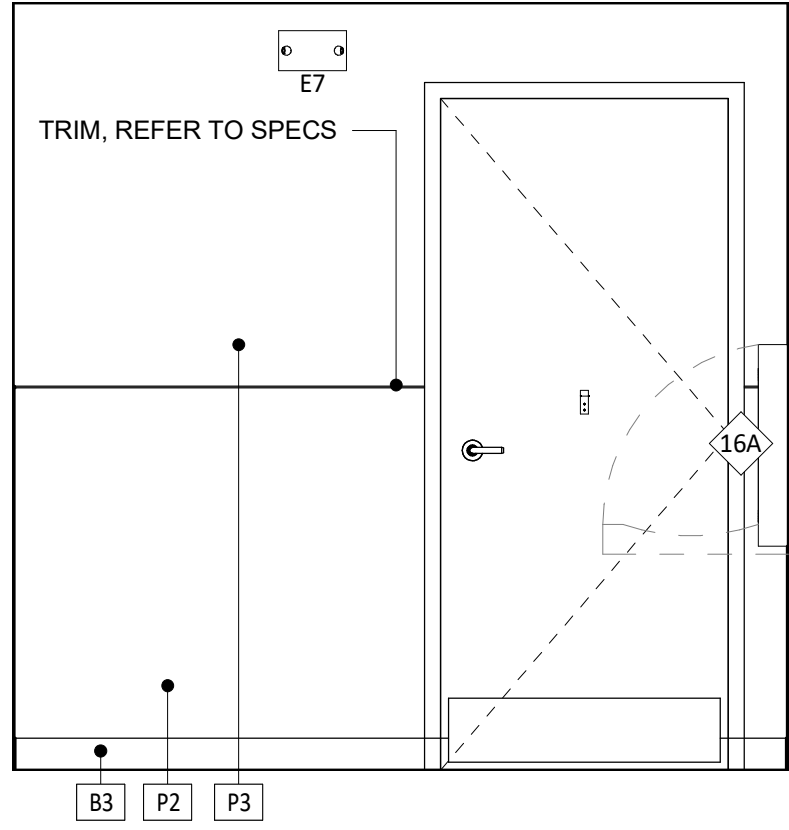
- A. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTES.
- B. REFER TO A801 FOR FINISH DETAIL NOTES.
- C. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
- D. REFER TO A120 FOR FINISH SCHEDULE.
- E. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

ELEVATION LEGEND

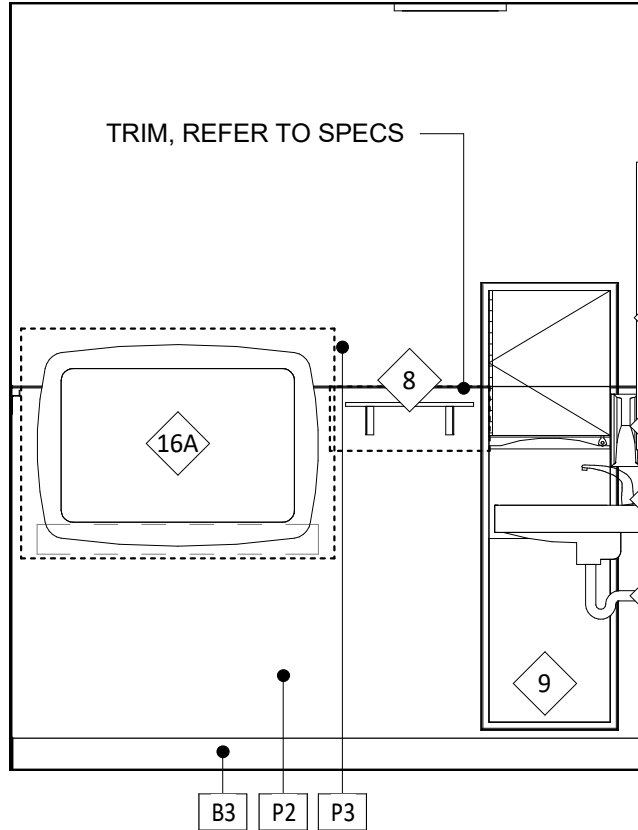
⬡ DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



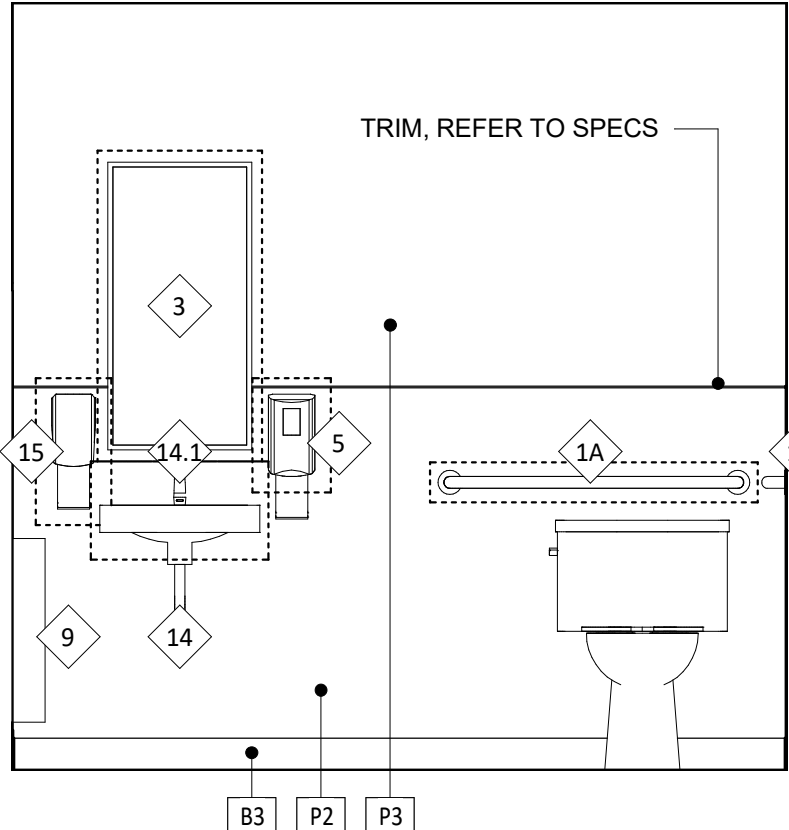
1 ENLARGED PLAN
SCALE: 1/2" = 1'-0"



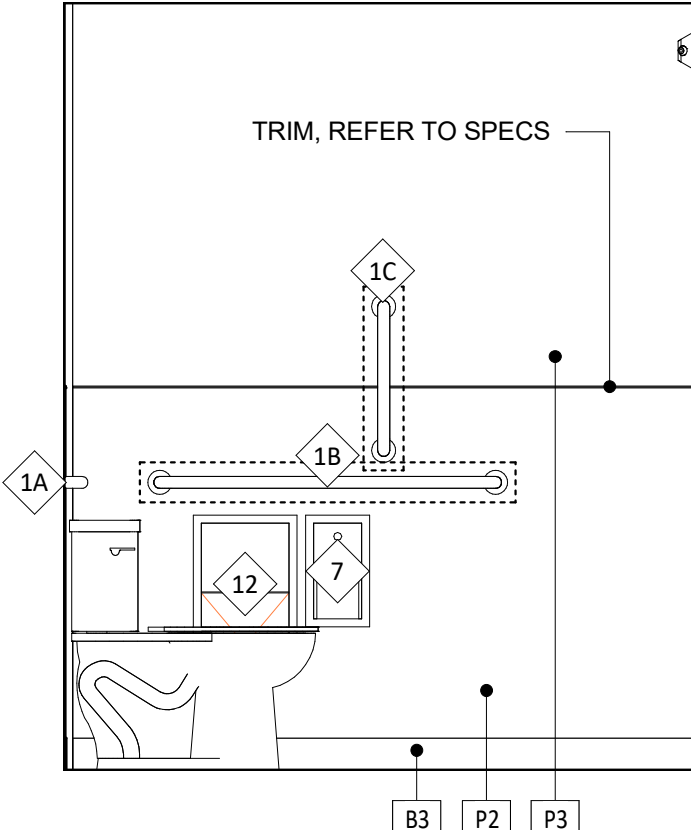
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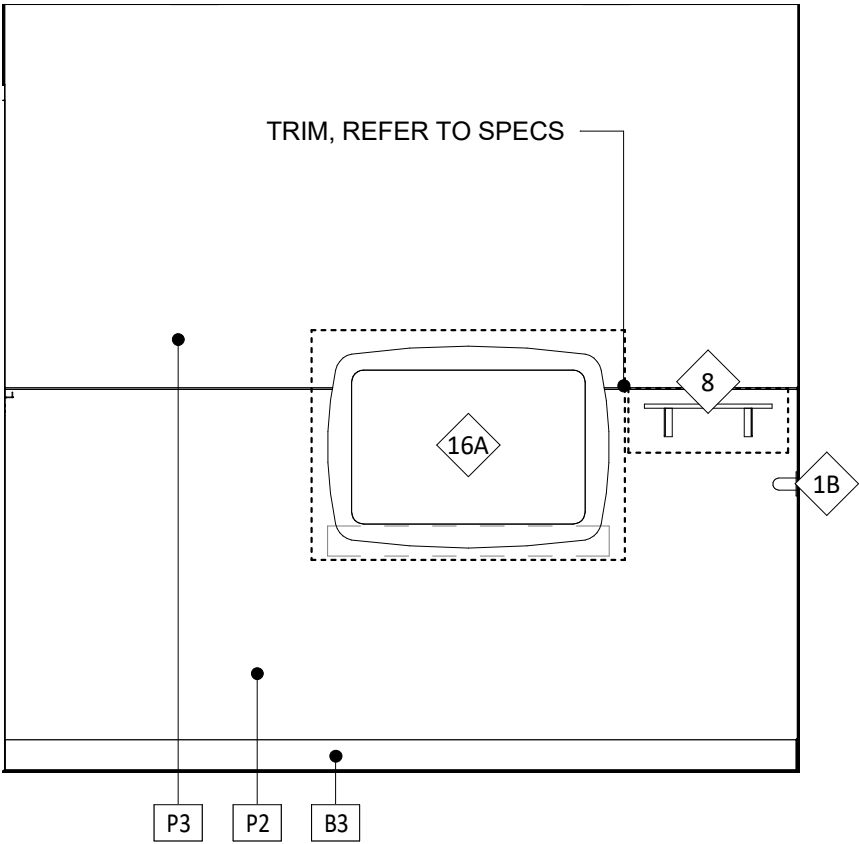
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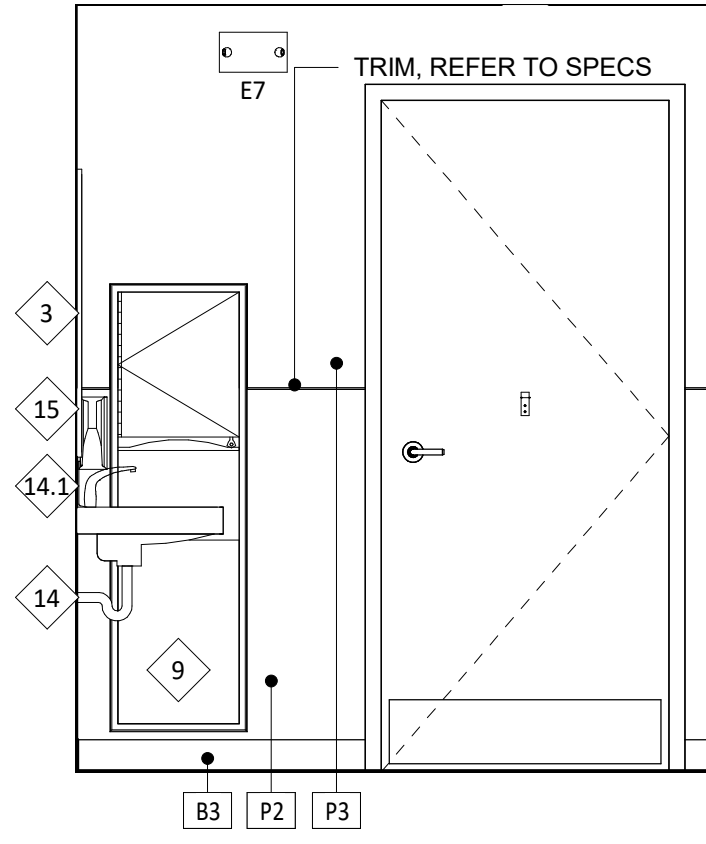
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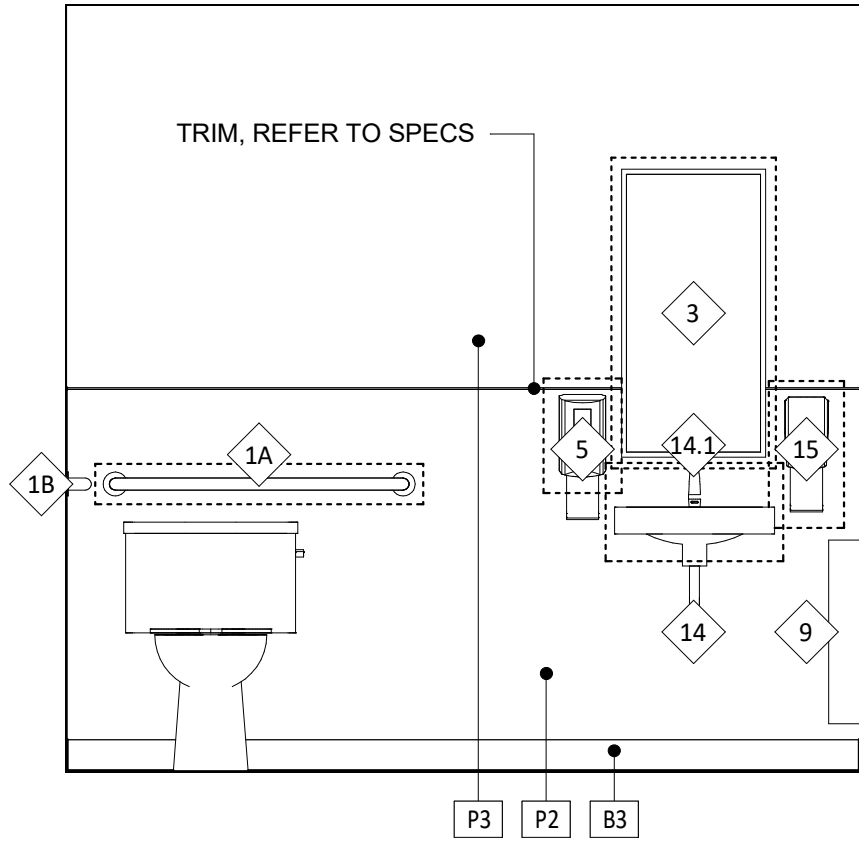
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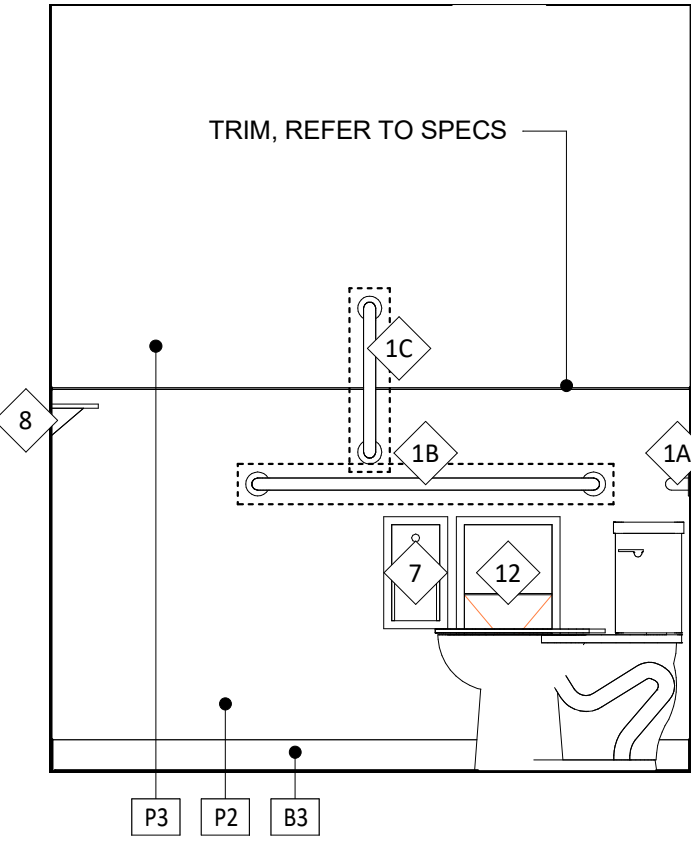
6 UNISEX 2 RESTROOM
SCALE: 1/2" = 1'-0"



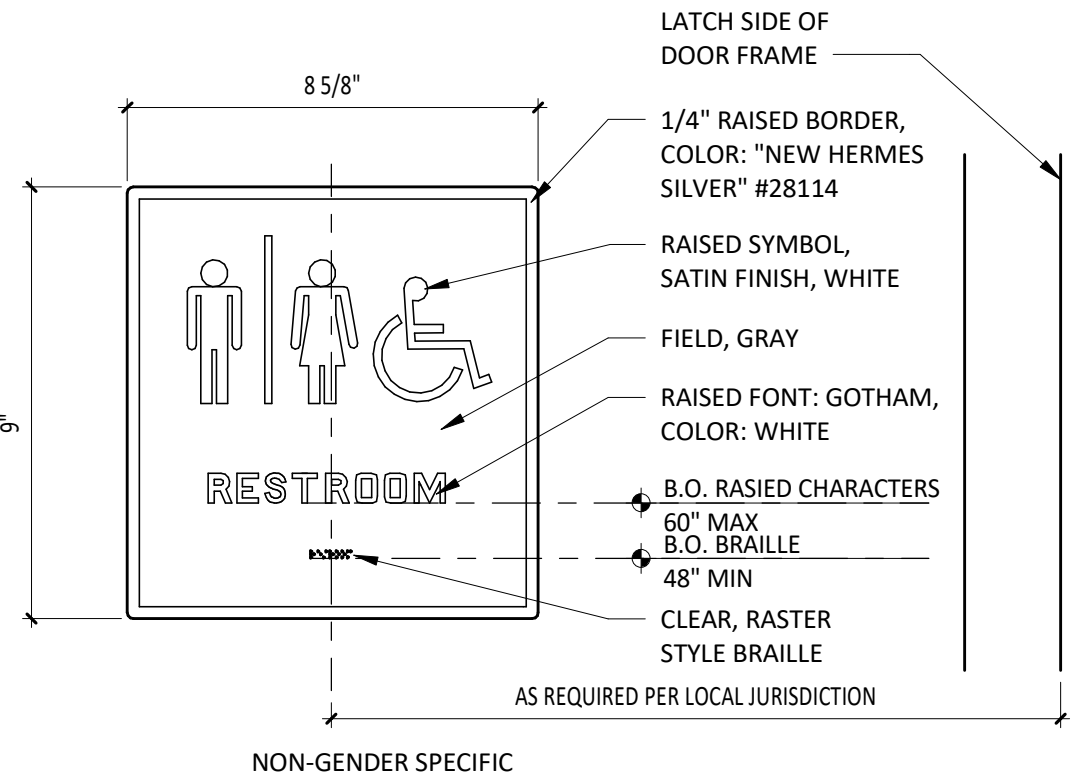
7 UNISEX 2 RESTROOM
SCALE: 1/2" = 1'-0"



8 UNISEX 2 RESTROOM
SCALE: 1/2" = 1'-0"



9 UNISEX 2 RESTROOM
SCALE: 1/2" = 1'-0"



10 TYPICAL RESTROOM SIGNAGE
SCALE: 3" = 1'-0"

CONSULTANT:



CLIENT:

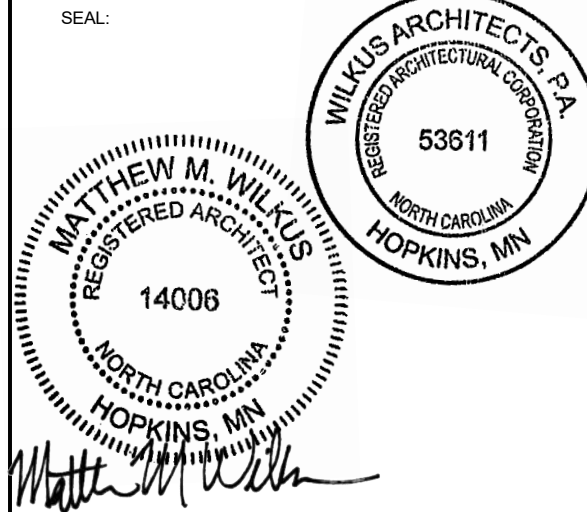


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PROJECT INFORMATION:

STORE NO.: #5421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:



October 01, 2024

MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

PROJECT NO. 2024-0115
DRAWN BY TRC
CHECKED BY DLA

ISSUE RECORD:

05/24/2024 PERMIT SET
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09/23/24 CONSTRUCTION SET

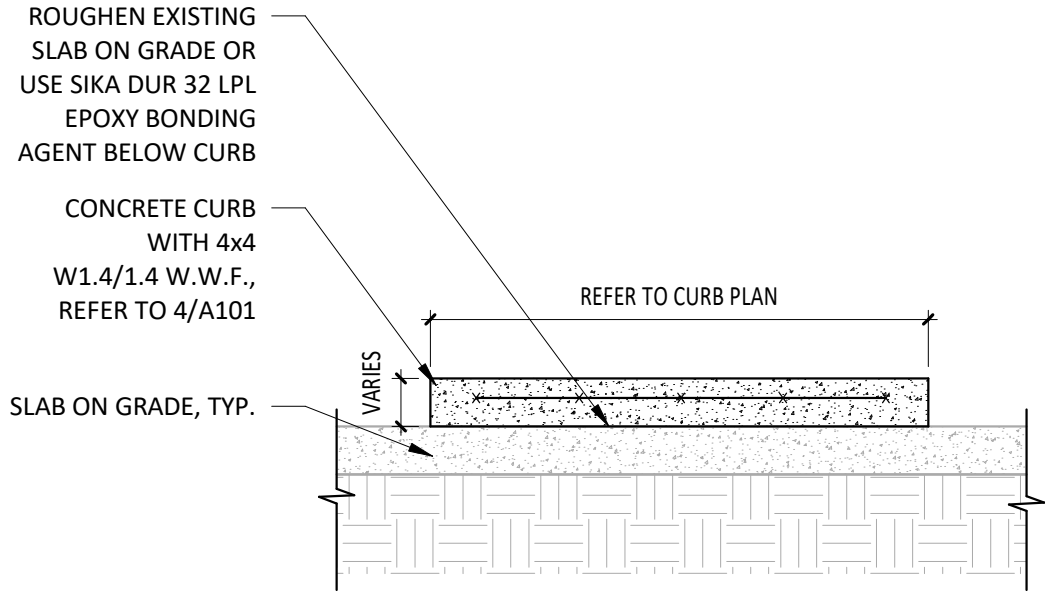
REVISIONS:

TITLE:

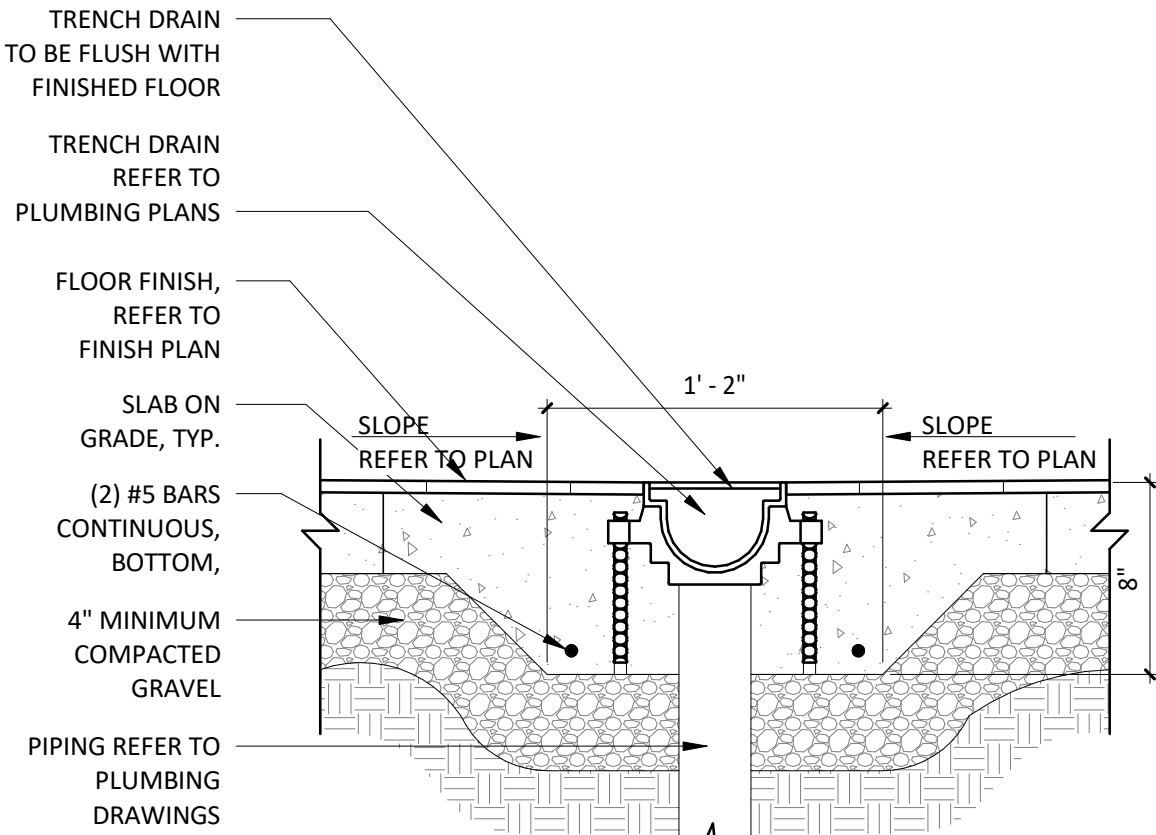
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INFORMATION

SHEET NUMBER:

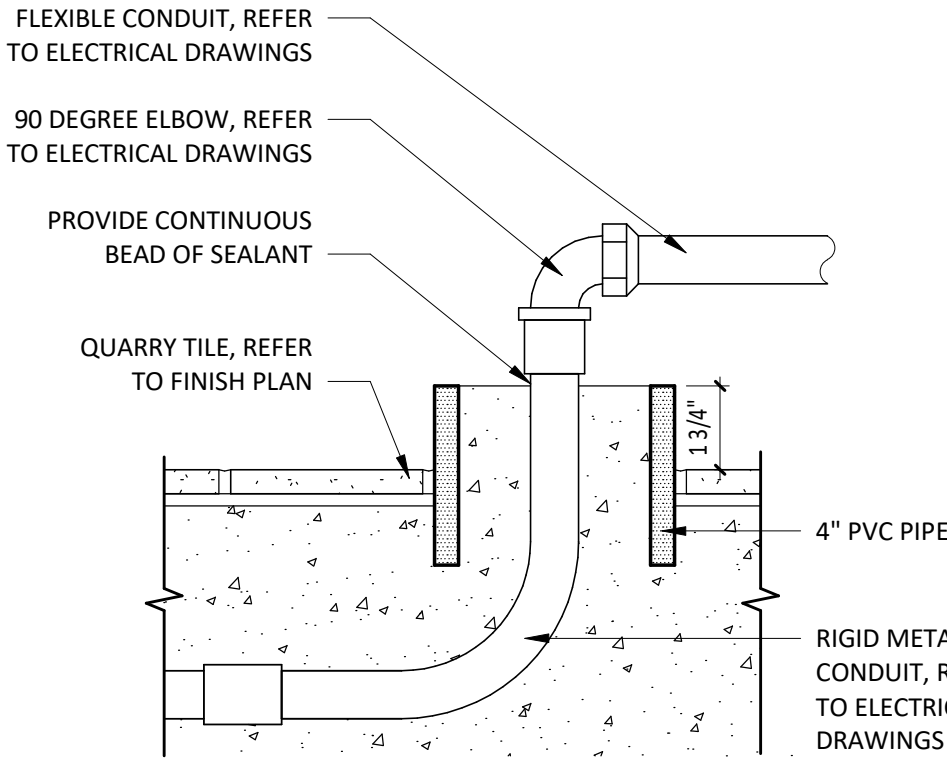
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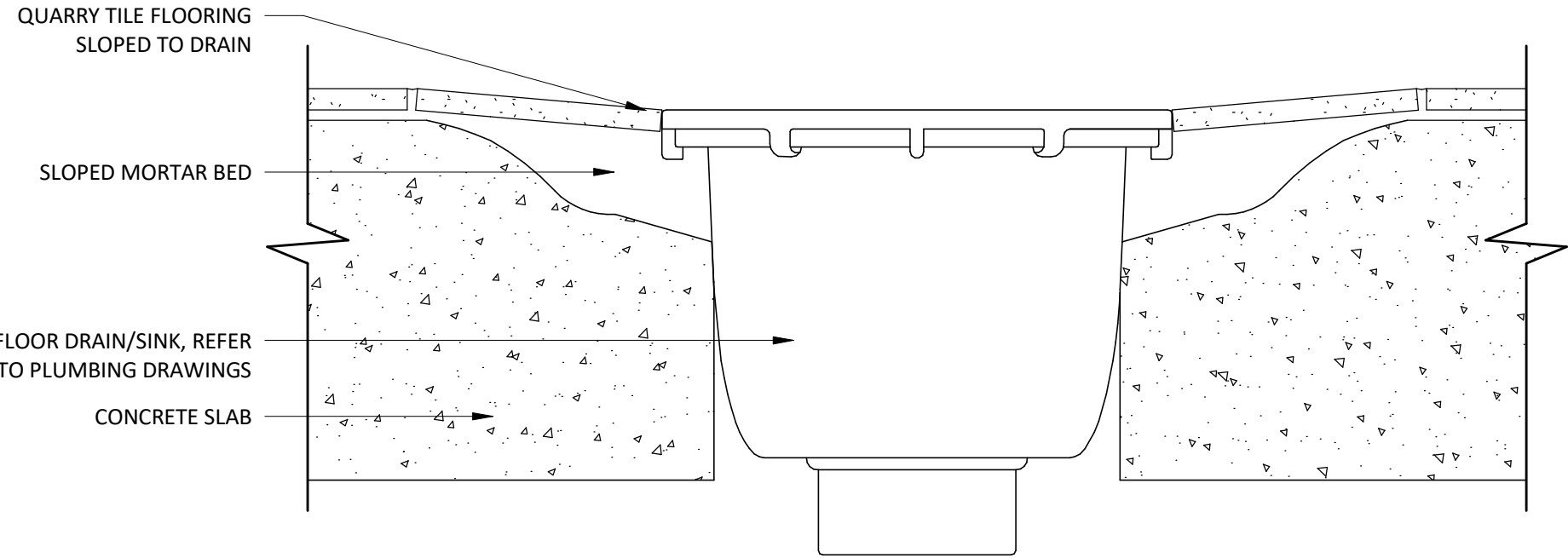
1 DETAIL @ CONCRETE CURB
SCALE: 3/4" = 1'-0"



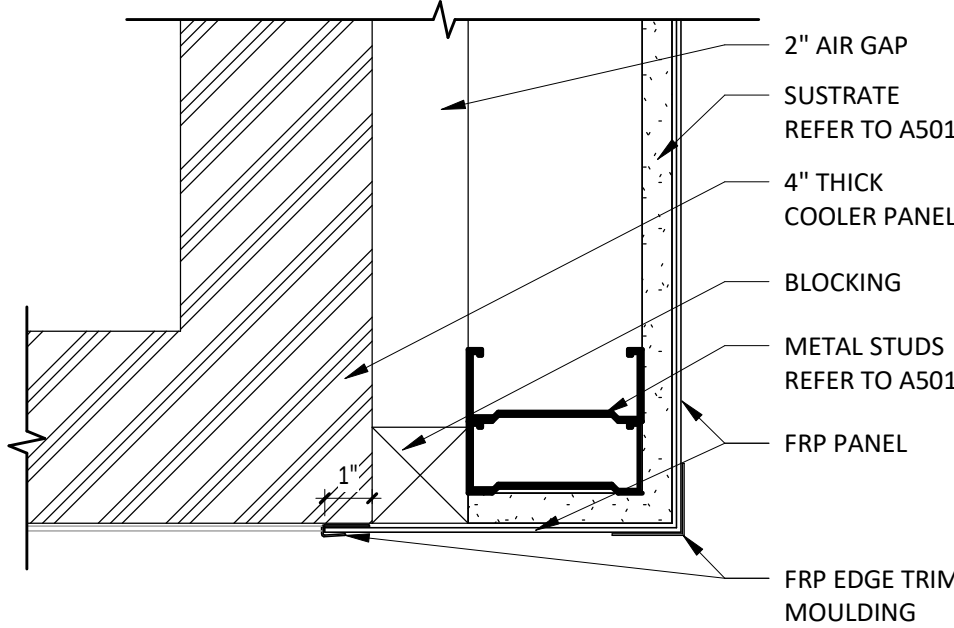
2 DETAIL @ TRENCH DRAIN
SCALE: 1 1/2" = 1'-0"



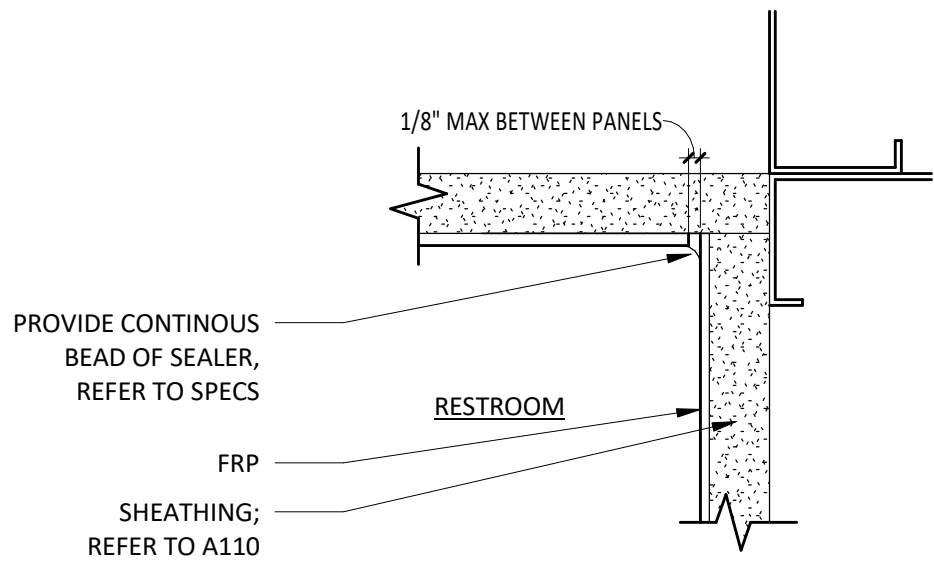
3 SECTION @ STUB LOCATION UNDER TABLES
SCALE: 3" = 1'-0"



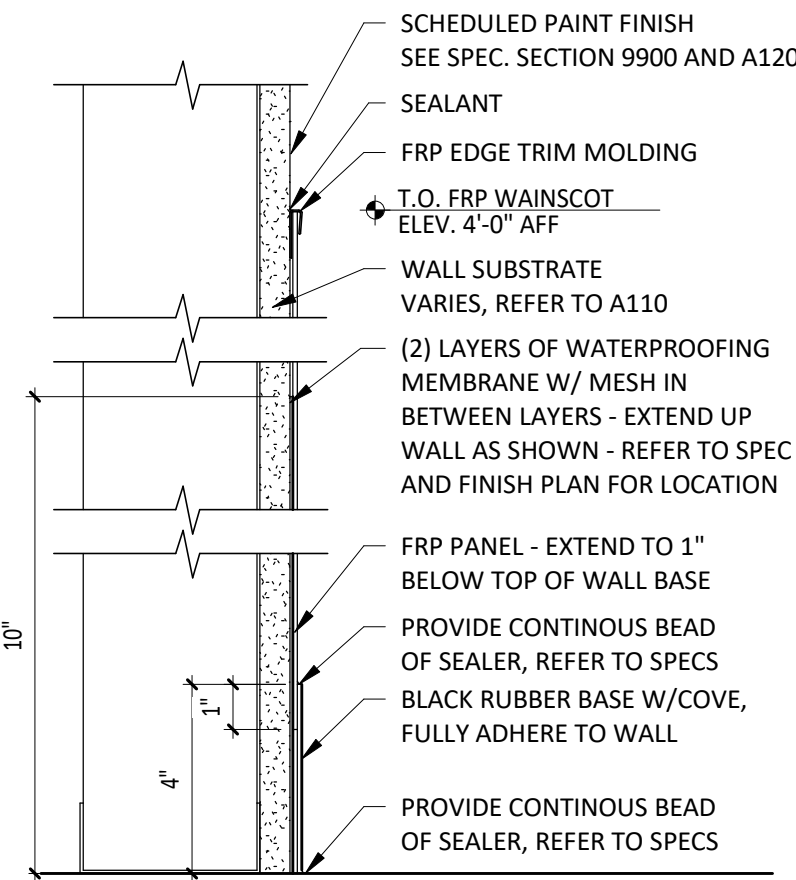
4 SECTION @ QT FLOOR DRAIN/SINK - TYP.
SCALE: 3" = 1'-0"



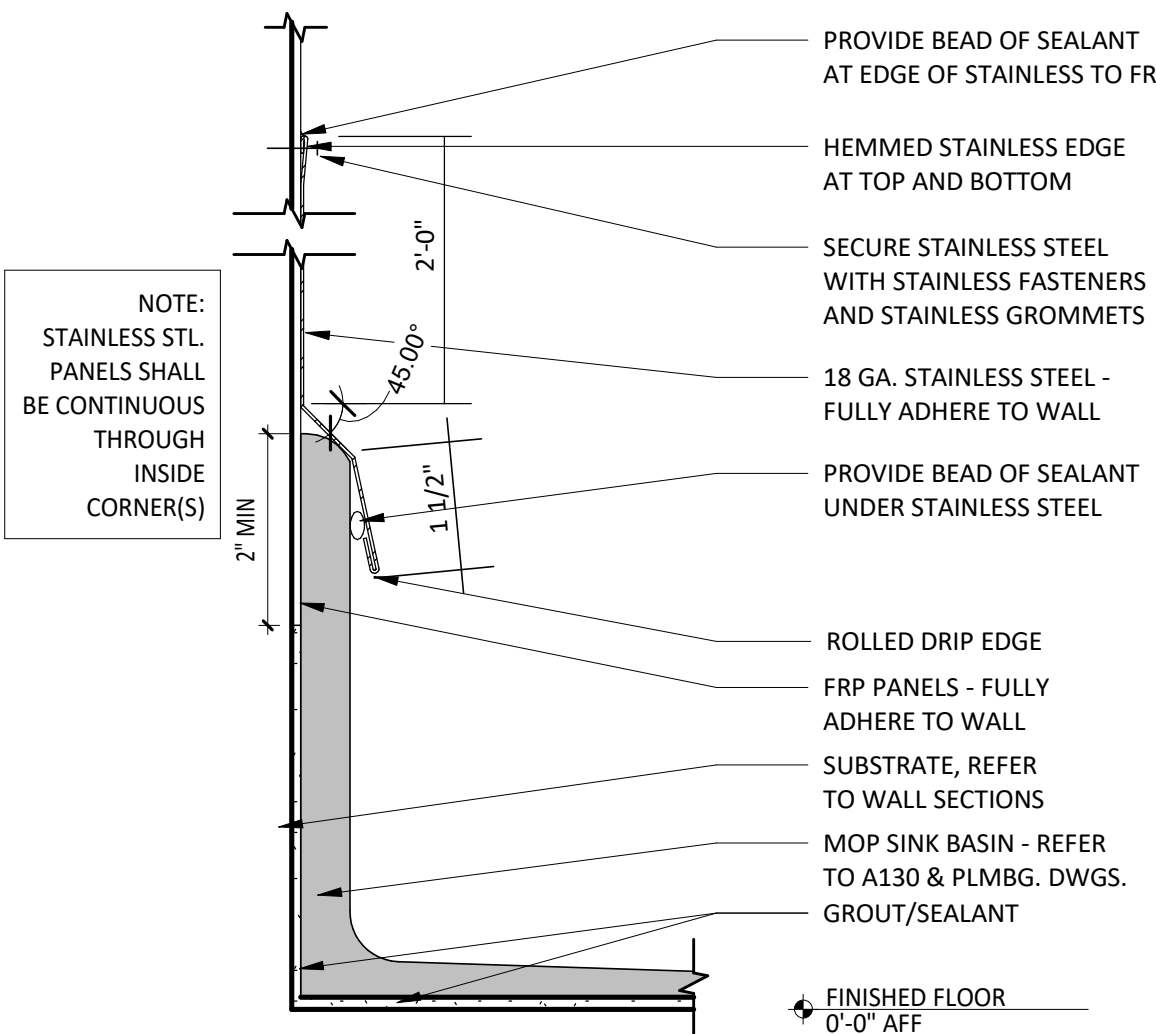
6 DETAIL @ FRP TO COOLER CLOSER STRIP
SCALE: 3" = 1'-0"



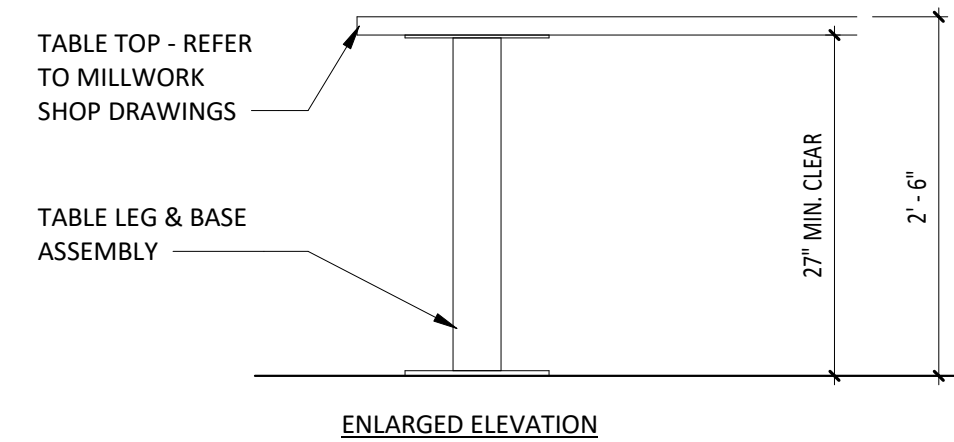
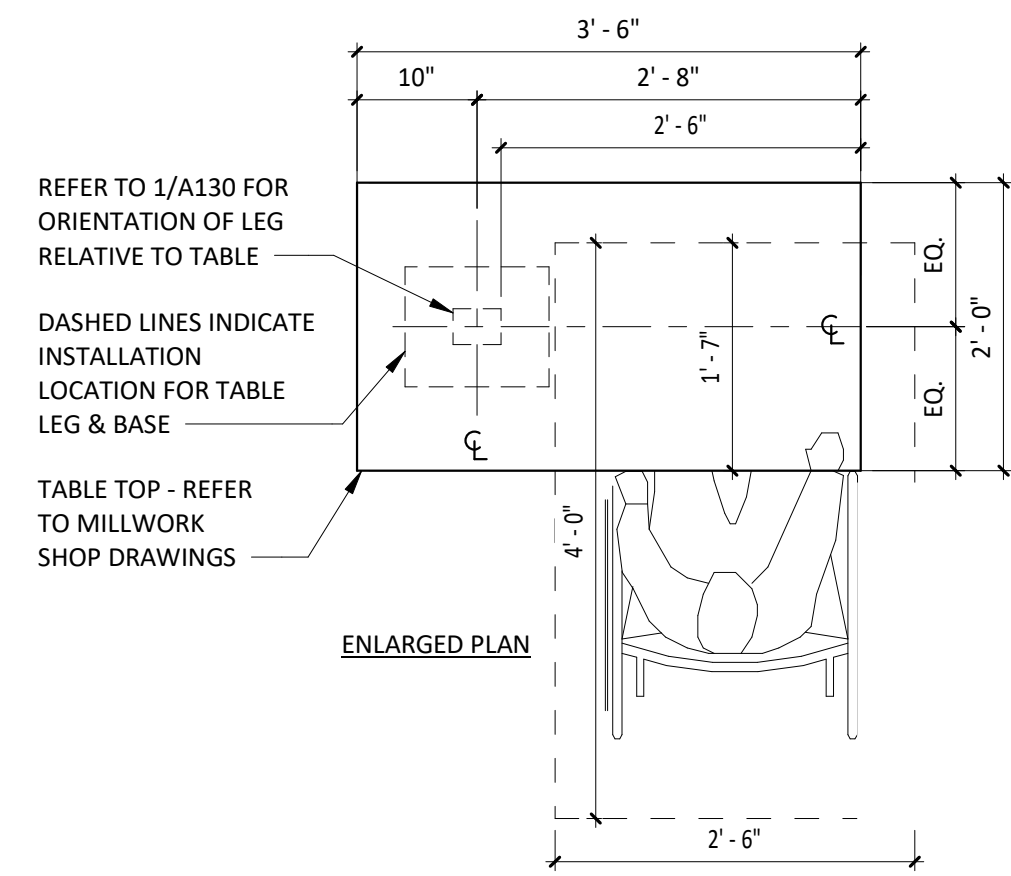
7 DETAIL @ RESTROOM FRP INSIDE CORNER
SCALE: 6" = 1'-0"



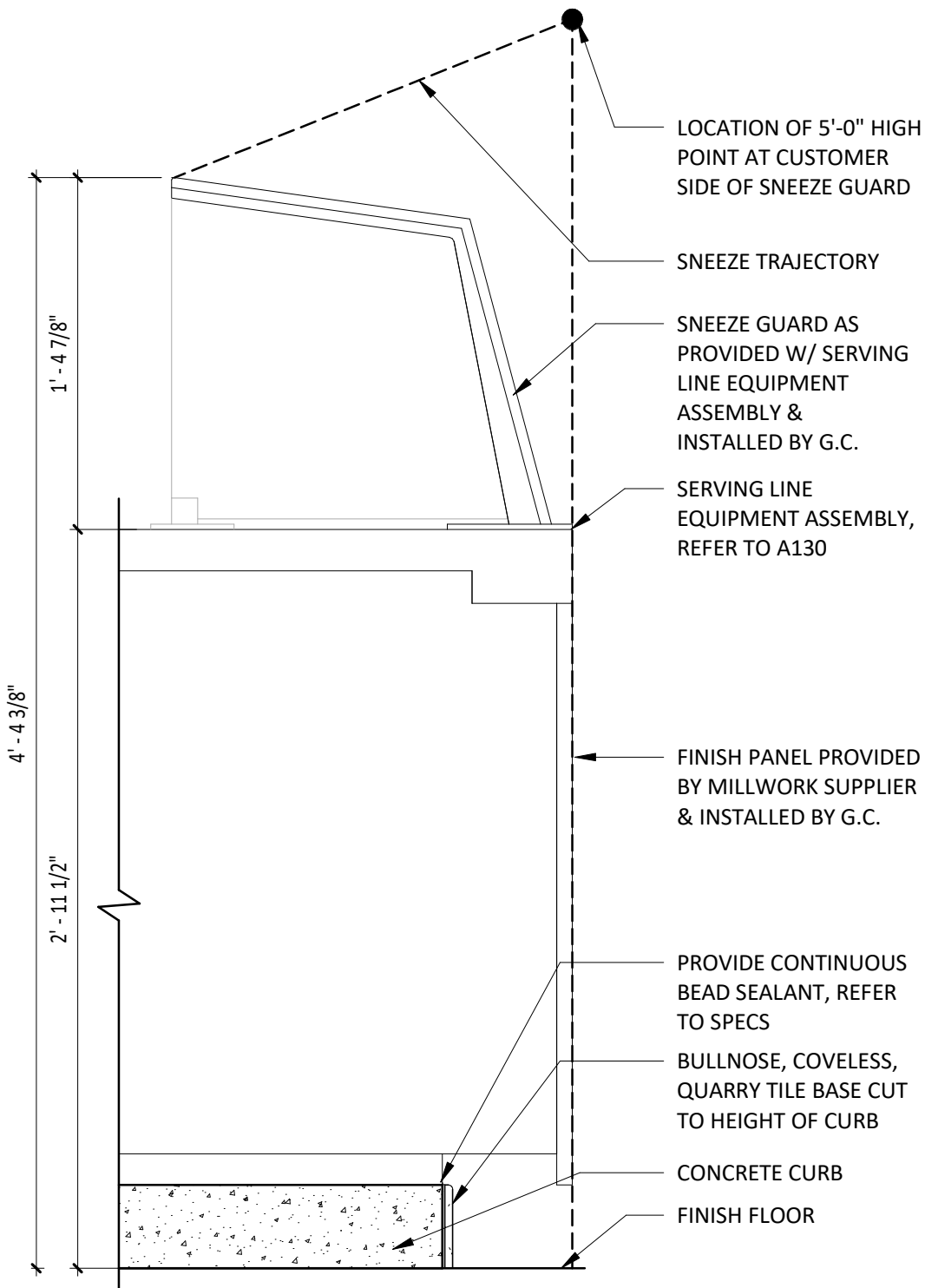
9 SECTION @ FRP WAINSCOT W/ RUBBER BASE
SCALE: 3" = 1'-0"



10 SECTION @ MOP SINK
SCALE: 6" = 1'-0"



12 DETAIL @ ACCESSIBLE TABLE
SCALE: 3/4" = 1'-0"



13 DETAIL @ SERVELINE SNEEZE GUARD
SCALE: 1 1/2" = 1'-0"

NOTE: ALL CONCEALED
WOOD TO BE FRT RATED

CONSULTANT:
WILKUS ARCHITECTS

CLIENT:
CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
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GRILL, INC.

PROJECT INFORMATION:

STORE NO.: #9421
MALLARD CREEK CHURCH
CHARLOTTE
3005 STELFOX ST,
CHARLOTTE, NC 28262

SEAL:

MATTHEW M. WILKUS
REGISTERED ARCHITECT
NORTH CAROLINA
14006
HOPKINS, MN
October 01, 2024
MATTHEW M. WILKUS
LICENSE #14006
(EXPIRES 06/30/2025)

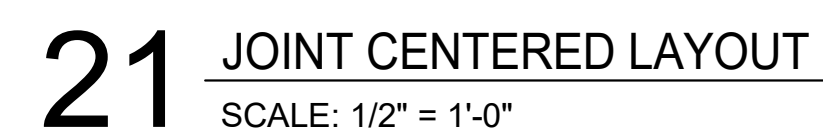
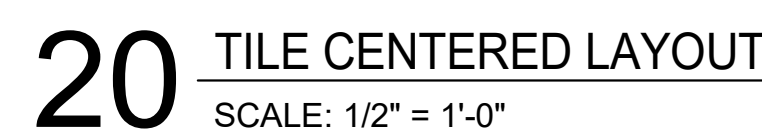
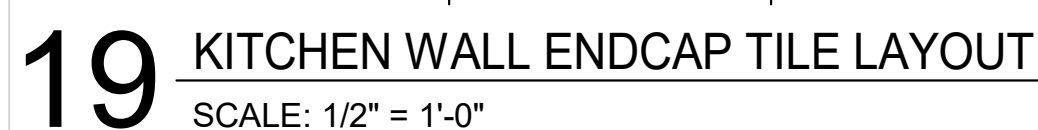
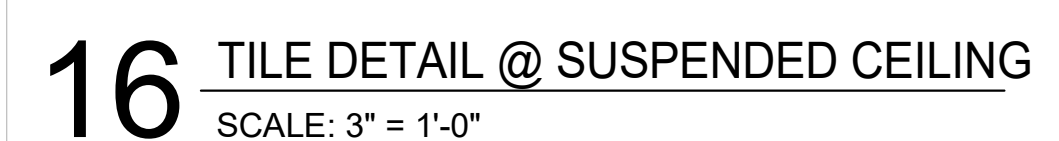
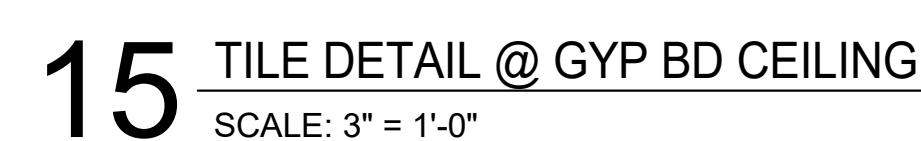
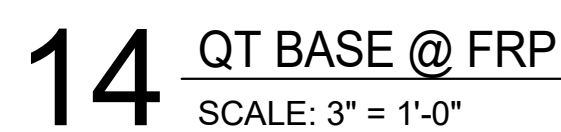
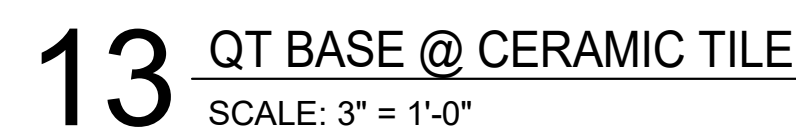
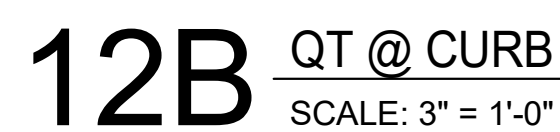
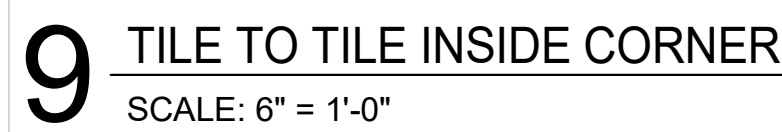
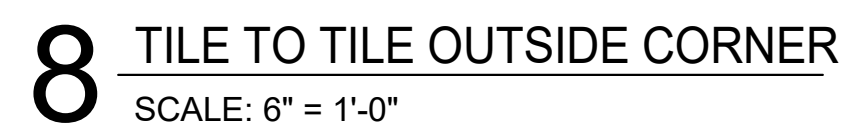
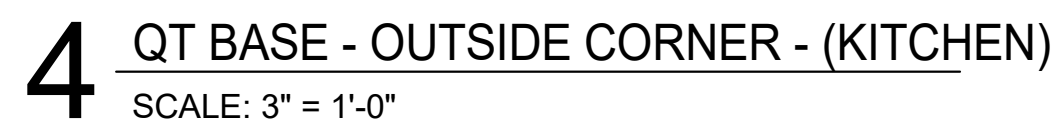
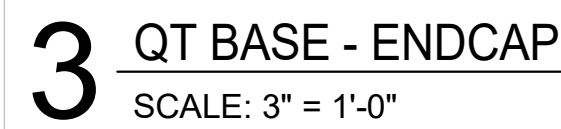
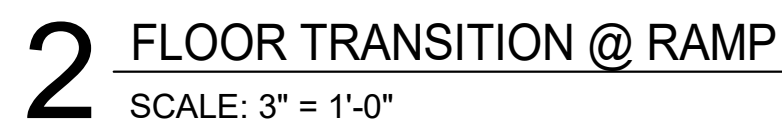
PROJECT NO. 2024-0115
DRAWN BY TRC
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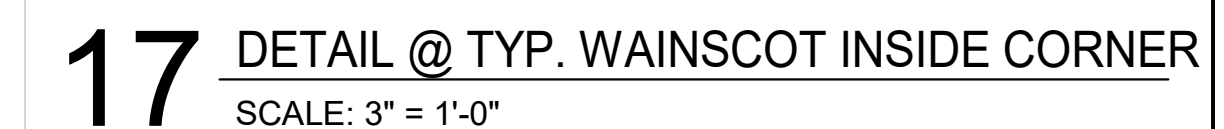
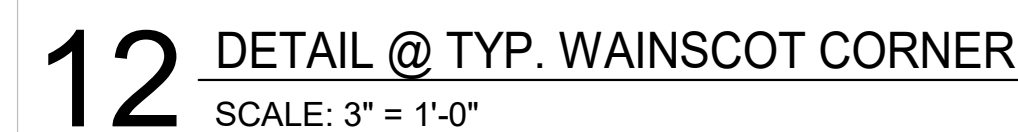
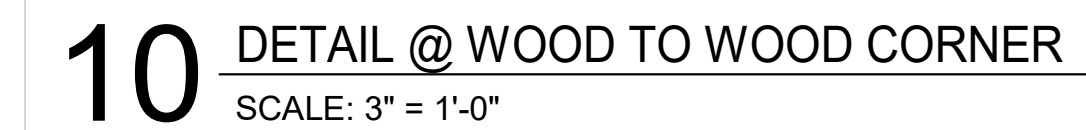
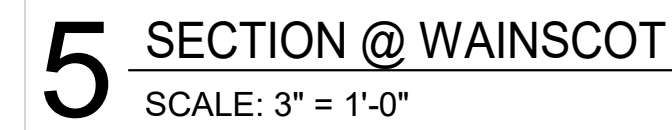
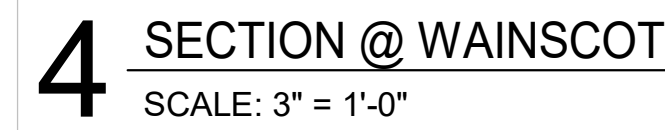
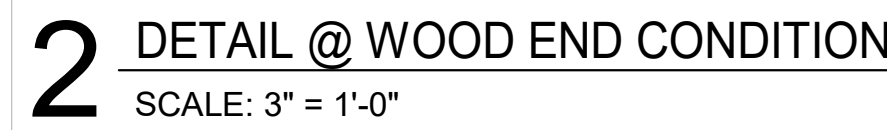
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05/24/2024 PERMIT SET
07/10/24 BID SET
09/23/24 CONSTRUCTION SET

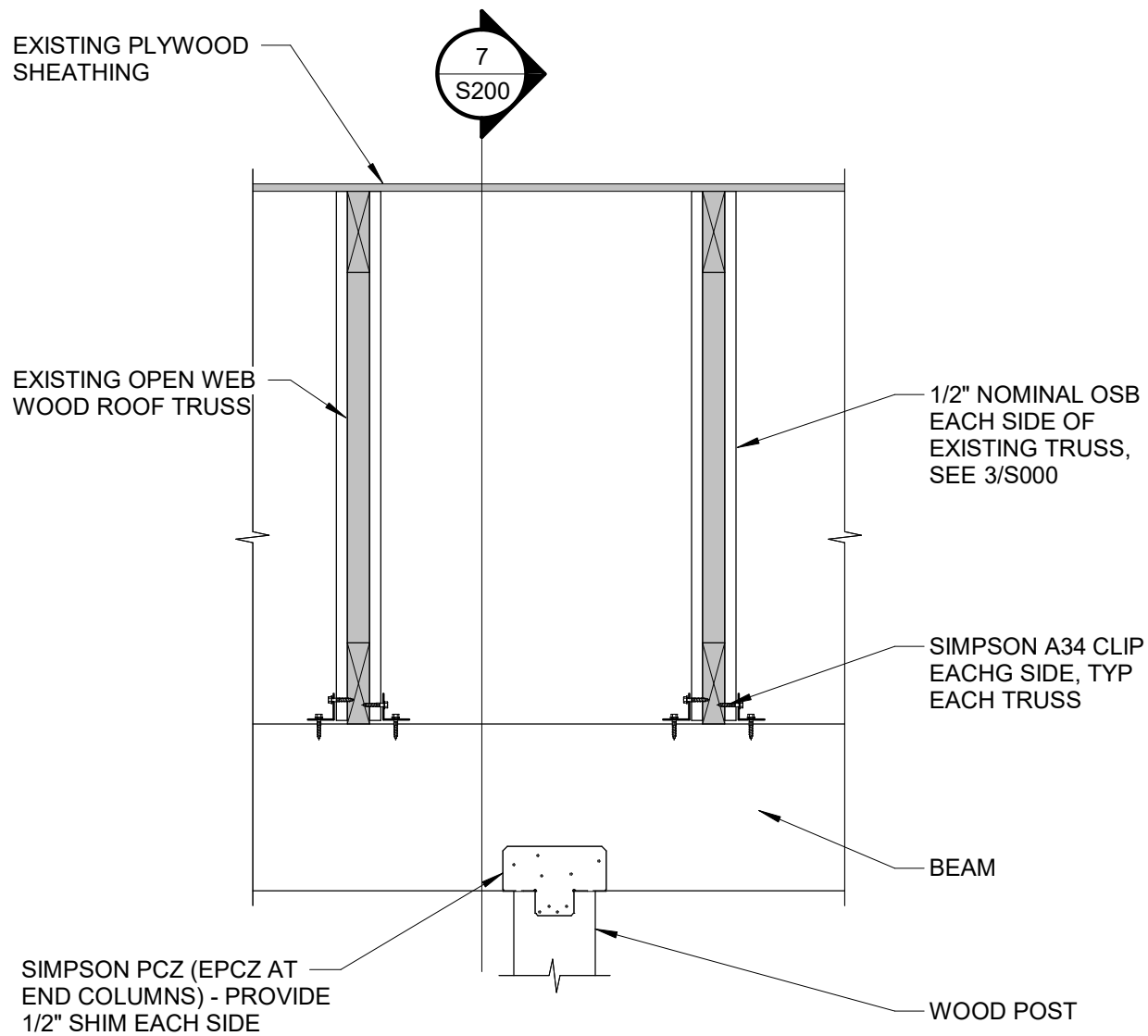
REVISIONS:

TITLE:
FINISH DETAILS -
GENERAL

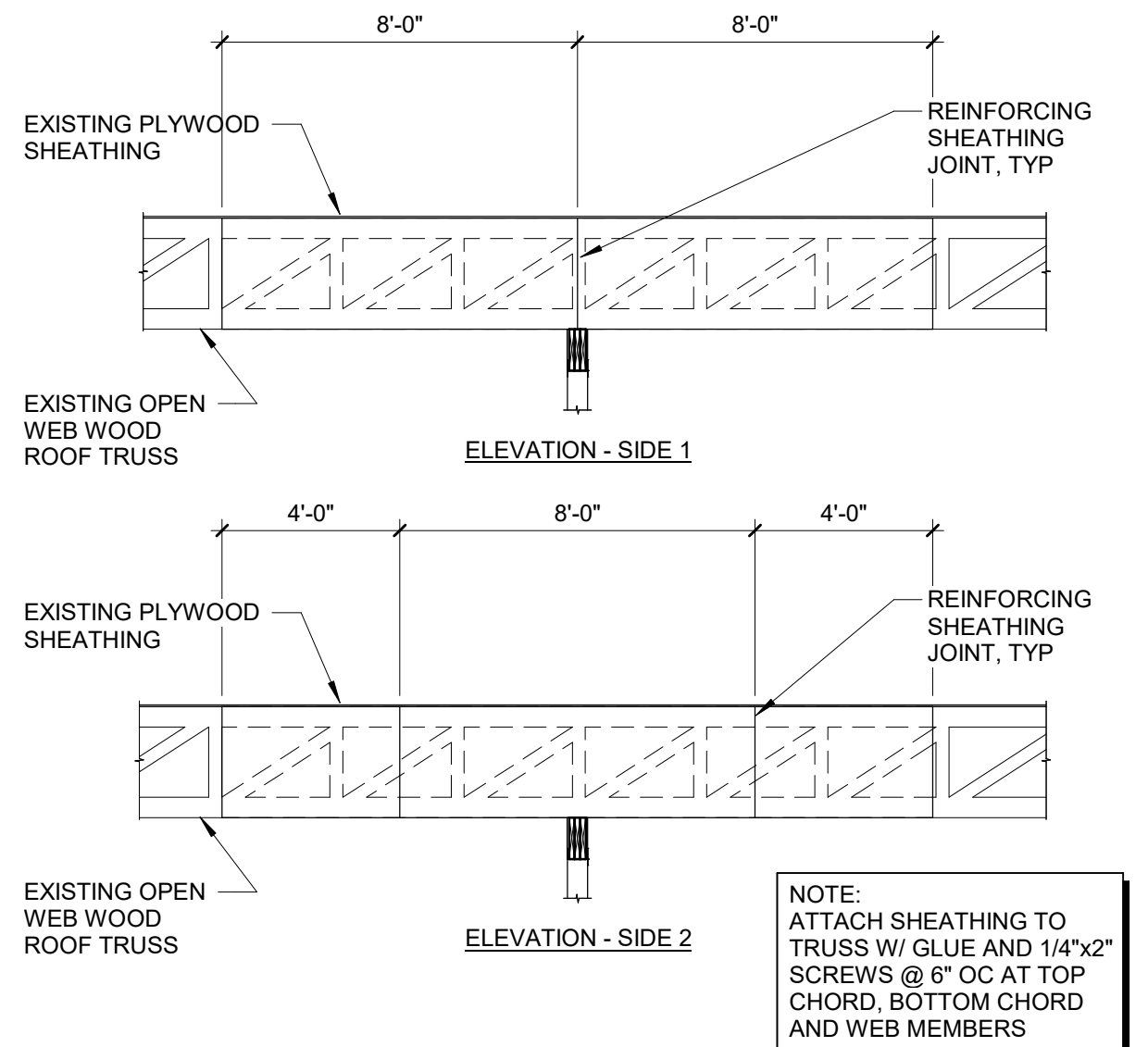
SHEET NUMBER:
A801







2 TRUSS REINFORCING DETAIL



3 TRUSS REINFORCING ELEVATION

GENERAL STRUCTURAL NOTES

- 1 BUILDING CODE:**
1.1 THE 2018 NORTH CAROLINA BUILDING CODE BASED ON THE 2015 INTERNATIONAL BUILDING CODE.
- 2 DESIGN LOADS:**
2.1 ROOFS:
DEAD LOAD 20 PSF
LIVE 20 PSF (REDUCIBLE)
SNOW: GROUND SNOW LOAD, P_s 10 PSF
ROOF SNOW LOAD + RAIN ON SNOW 12" PSF
- 2.2 WIND:
BASIC WIND SPEED, V 115 MPH ULTIMATE
RISK CATEGORY II
EXPOSURE C
INTERNAL PRESSURE COEFFICIENT, GC_p -0.18
MWFRS 16.9 PSF TYPICAL
..... 25.4 PSF CORNERS
COMPONENT DESIGN PRESSURE SEE TABLE
- 2.3 SEISMIC DATA:
SITE CLASS D
RISK CATEGORY II
IMPORTANCE FACTOR, I_e 1.0
MAPPED SPECTRAL RESPONSE COEFFICIENT, S_s 0.191
MAPPED SPECTRAL RESPONSE COEFFICIENT, S₁ 0.08
SEISMIC DESIGN CATEGORY B
ENGINEERED WOOD TRUSSES REFER TO DETAIL 2/S201
- * PLUS SNOW ACCUMULATION IN ACCORDANCE WITH SECTION 1608 OF THE IBC.
- | COMPONENT AND CLADDING ULTIMATE WIND PRESSURE TABLE IN PSF ^{1,2} | | | | |
|---|----------------|-------------|-------------------|-------------|
| LOCATION | EXTERIOR WALLS | | GROSS ROOF UPLIFT | |
| | TRIBUTARY AREA | | TRIBUTARY AREA | |
| | 10 SQ. FT. | 500 SQ. FT. | 10 SQ. FT. | 500 SQ. FT. |
| TYPICAL | ±28.6 | ±22.0 | -28.8 | -26.4 |
| WITHIN 8 FEET OF BUILDING CORNER | ±35.2 | ±22.0 | | |
| FROM 12 TO 24 FEET FROM BUILDING EDGE | | | -28.8 | -26.4 |
| FROM EDGE OF ROOF TO 12 FEET FROM EDGE | | | -48.4 | -31.3 |
| FROM 12 FEET FROM BUILDING CORNER (4 FEET WIDE) | | | -72.8 | -31.3 |
- ¹ LINEAR INTERPOLATION MAY BE USED FOR TRIBUTARY AREAS BETWEEN THOSE SHOWN
² PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE PROJECTED SURFACES, RESPECTIVELY
- 3 GENERAL NOTES:**
3.1 CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF PERSONS AND PROPERTY. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
3.2 THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. DURING ERECTION OF THE STRUCTURE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TEMPORARY GUYING, SHORING, BRACING, FORMING, ETC. SUCH MEASURES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND UNTIL ALL FRAMING AND CONNECTIONS ARE IN PLACE. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF SUCH TEMPORARY MEASURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3.3 DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW BY THE ENGINEER.
3.4 ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, TELECOMMUNICATION DRAWINGS, FIRE PROTECTION DRAWINGS, EQUIPMENT DRAWINGS AND RELATED ITEMS ARE BY OTHERS.
3.5 CONTRACTOR AND SUBCONTRACTORS SHALL THOROUGHLY REVIEW ALL DRAWINGS PRIOR TO SUBMITTING BIDS. MISCELLANEOUS FASTENERS, CLIPS, ETC. THAT ARE NOT DETAILED ON THE DRAWINGS BUT ARE PART OF THE REQUIREMENTS FOR FULL INSTALLATION OF ALL STRUCTURAL SYSTEMS ARE TO BE PART OF THE BID. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE BID. DURING THE BIDDING STAGE, CONTRACTOR SHALL REQUEST AN INTERPRETATION OF CONFLICTS PRIOR TO BIDDING. IF NO REQUEST IS MADE, BOTH PROVISIONS SHALL BE PRESUMED TO BE INCLUDED IN THE BID AND THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH PROVISION GOVERNS, AND THE CONTRACTOR SHALL PERFORM THE WORK AT NO ADDITIONAL COST TO THE OWNER.
3.7 ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS AND/OR EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3.8 THE CONTRACTOR SHALL COORDINATE ALL DEPRESSIONS, DIMENSIONS, ELEVATIONS, SLEEVES, CHASES, HANGERS, OPENINGS, BLOCK OUTS, INSERTS, ANCHORS, EQUIPMENT SUPPORTS, AND DETAILS WITH THE ENTIRE CONSTRUCTION PACKAGE INCLUDING ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, TELECOMMUNICATION DRAWINGS, FIRE PROTECTION DRAWINGS AND EQUIPMENT DRAWINGS.
3.9 MECHANICAL UNITS SUPPORTED BY ROOF STRUCTURE ARE SUBJECT TO THE ACCEPTANCE OF THE STRUCTURAL ENGINEER.
3.10 DO NOT HANG ANYTHING FROM THE ROOF DECK.
- 4 EXISTING CONSTRUCTION:**
4.1 WHEREVER APPLICABLE, PRIOR TO FABRICATION AND CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS, DETAILS OF EXISTING STRUCTURAL CONNECTIONS AND OTHER CONDITIONS WHERE THEY AFFECT THIS CONSTRUCTION. NOTIFY THE ENGINEER IF THERE ARE ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. CONSULT WITH THE STRUCTURAL ENGINEER BEFORE MAKING ANY MODIFICATIONS TO THE EXISTING STRUCTURE NOT INDICATED ON THE CONTRACT DOCUMENTS.
4.2 BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING STRUCTURE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
4.3 THE CONTRACTOR SHALL CONSIDER ALL HAZARDS DUE TO WELDING WITHIN THE EXISTING FACILITY, INCLUDING FIRE HAZARD, TOXIC SMOKE HAZARD AND LIQUEFACTION OF MEMBERS UNDER LOAD. VERIFY THE PRESENCE OF ANY TOXIC MATERIALS PRIOR TO BIDDING THE WORK OR SUBMITTAL OF FINAL PRICE.
- 5 FOOTINGS AND SOIL DATA:**
5.1 THE STRUCTURE IS DESIGNED FOR THE PRESUMPTIVE BEARING PRESSURES BASED ON THE IBC:
MAXIMUM ALLOWABLE SOIL BEARING CAPACITY 1500 PSF
5.2 FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ON COMPACTED, ENGINEERED FILL. ALL SUBGRADE SHALL BE PREPARED AND COMPACTED ACCORDING TO THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT.
5.3 ALL TOPSOIL, FILL AND OTHER UNSUITABLE BEARING MATERIAL SHALL BE REMOVED. A GEOTECHNICAL ENGINEER SHALL INSPECT THE EXCAVATED AREA TO ENSURE ALL MATERIALS REQUIRING REMOVAL HAVE BEEN REMOVED AND TO VERIFY THE SOIL BEARING CAPACITY USED FOR DESIGN PRIOR TO CONCRETE PLACEMENT.
5.4 EMBEDMENT DEPTH FROM EXTERIOR GRADE TO BOTTOM OF FOOTING SHALL NOT BE LESS THAN 1'-0". DURING WINTER CONSTRUCTION ALL FOOTINGS SHALL BE CONSIDERED UNHEATED STRUCTURES UNLESS INDICATED OTHERWISE IN THE GEOTECHNICAL REPORT. BOTTOM OF FOOTING ELEVATION SHALL BE LOWERED AS REQUIRED TO MEET THIS MINIMUM.
5.5 BACKFILL SHALL BE PLACED AND COMPACTED AGAINST BOTH SIDES OF FOUNDATION WALLS SIMULTANEOUSLY.
5.6 MUD SLABS, FOOTINGS OR SLABS SHALL NOT BE PLACED ONTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE OR PROPER DEPTH OF BURY.
- 6 REINFORCED CONCRETE:**
6.1 DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318), LATEST ADOPTION.
6.2 CONCRETE MIXES SHALL BE DESIGNED PER ACI 301 USING THE FOLLOWING:
PORTLAND CEMENT CONFORMING TO ASTM A1064
FLY ASH CONFORMING TO ASTM C618
SLAG CONFORMING TO ASTM C989
SILICA FUME CONFORMING TO ASTM C1240.
AGGREGATE CONFORMING TO ASTM C33.
ADMIXTURES CONFORMING TO ASTM C494, C1017, AND C260. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE.
CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
6.3 MATERIAL STRENGTHS:
6.3.1 PROVIDE THE FOLLOWING CONCRETE PROPERTIES:
- | DESCRIPTION | COMPRESSIVE STRENGTH (f' _c) AT 28 DAYS | MAX AGGREGATE SIZE | SLUMP ² | MAX WATER TO CEMENT RATIOS (W/C) ³ |
|--|--|--------------------|--------------------|---|
| INTERIOR SLABS ON GRADE | 4000 PSI | ¾" | 3" ± 1" | 0.43 |
| ANY CONCRETE SUBJECT TO FREEZE-THAW CYCLES (5% ENTRAINED AIR) ¹ | 4500 PSI | ¾" | 4" ± 1" | 0.45 |
- ¹ TOLERANCE ON AIR CONTENT AS DELIVERED SHALL BE ± 1.5%.
² PRIOR TO ADDITION OF PLASTICIZER OR HIGH-RANGE WATER-REDUCER
³ THESE W/C RATIOS MAY BE LOWER THAN NECESSARY TO PROVIDE THE SPECIFIED STRENGTHS.
- 6.3.2 REINFORCING STEEL:
ALL OTHER BARS, STIRRUPS AND TIES ASTM A615, GR. 60
WELDED WIRE FABRIC ASTM A1064
- 6.4 PLACEMENT OF CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI AND CRSI STANDARDS.
6.5 CLEAN REINFORCEMENT OF LOOSE RUST, MILL SCALE, EARTH, ICE, AND OTHER FOREIGN MATERIALS THAT REDUCE BOND TO CONCRETE.
6.6 FURNISH THE FOLLOWING CONCRETE COVER ON REINFORCING BARS UNLESS SHOWN OTHERWISE ON DRAWINGS:
SLABS ON GRADE CENTER MESH OR BARS IN SLAB
6.7 ALL WELDED WIRE FABRIC SHALL BE TRANSPORTED AND DELIVERED IN FLAT SHEETS.

- 6.8 MAINTAIN CONCRETE IN A CONTINUOUSLY DAMP AND WET CONDITION FOR NOT LESS THAN 7 DAYS AFTER PLACING. PROTECT FROM MOISTURE LOSS WITH SHEETING OR SPRAY-ON MEMBRANE MEETING ASTM C309 AND COMPATIBLE WITH FLOOR COVERINGS.
6.9 FINISHING REQUIREMENTS ARE AS FOLLOWS (REFER TO ACI 301):
SMOOTH RUBBED FINISH ON EXPOSED FORM SURFACES.
STEEL TROWEL FINISH ON INTERIOR SLABS AND SLABS TO RECEIVE FINISH FLOORING.
6.10 DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR ACCEPTED BY THE ENGINEER.
6.11 IN SLABS PROVIDE (2) #4x4-0" DIAGONAL BARS AT 45 DEGREES AT ALL CORNERS OF OPENINGS AND RE-ENTRANT CORNERS.
6.12 COLD WEATHER CONCRETING SHALL FOLLOW PROCEDURES IN ACI 306.
6.13 HOT WEATHER CONCRETING SHALL FOLLOW PROCEDURES IN ACI 305.
6.14 FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL SHORING.
6.15 SPECIAL ADDITIONAL REQUIREMENTS FOR SLABS ON GRADE:
6.15.1 DESIGN STANDARD: GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1)
6.15.2 REFER TO GEOTECHNICAL REPORT FOR VAPOR BARRIER, ENGINEERED FILL AND SUBGRADE COMPACTION REQUIREMENTS.
6.15.3 LAP ADJOINING WELDED WIRE FABRIC AT LEAST TWO FULL MESHES.
6.15.4 SEE DRAWINGS FOR LOCATIONS OF SLAB CONTROL JOINTS.
6.15.5 SLAB JOINTS SHALL BE FILLED WITH AN ACCEPTED MATERIAL AS LATE AS POSSIBLE, PREFERABLY AT LEAST 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS. FILL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6.15.6 SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
6.15.7 FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 302.1 R.

- 7 WOOD:**
7.1 DESIGN CODE: NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION (AF&PA), LATEST ADOPTION.
7.2 MATERIALS (FOLLOWING INDICATE MINIMUM GRADES UNO ON DRAWINGS):

DESCRIPTION		SPECIES & GRADE	DESIGN VALUES (PSI)				COMMENTS	
			F _b	F _c L	F _c l	E (x10 ⁶)		
FRAMING LUMBER	Dimensional Lumber (2"-4")	SPRUCE-PINE-FIR	NO. 2	875	425	1150	1.4	POSTS
	Timbers (5"x5" and larger)	SPRUCE-PINE-FIR	NO. 2	500	425	500	1.0	POSTS
	Dimensional Lumber (2"-4")	SPRUCE-PINE-FIR	NO. 2	875	425	1150	1.4	JOISTS, BEAMS AND LINTELS
	Timbers (5"x5" and larger)	SPRUCE-PINE-FIR	NO. 2	600	425	425	1.0	BEAMS

- 7.3 ALL LUMBER CONNECTORS TO BE SUPPLIED BY USP OR SIMPSON STRONG-TIE. WHERE LUMBER CONNECTORS ARE TO BE USED BUT ARE NOT CALLED OUT IN THESE DRAWINGS THEY ARE TO BE DESIGNED AND SUPPLIED BY USP OR SIMPSON STRONG-TIE FOR THE REACTION SHOWN ON THESE DRAWINGS. WHEN USING LUMBER CONNECTORS FILL ALL NAIL HOLES TO ACHIEVE PUBLISHED VALUE. WHERE MORE STRINGENT, THESE DRAWINGS SUPERSEDE DIRECTIONS IN PRODUCT CATALOG BUT REFER TO PRODUCT CATALOG FOR TYPICAL INSTALLATION INSTRUCTIONS.
7.4 TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED NOR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE TRUSS SUPPLIER'S STRUCTURAL ENGINEER.
7.5 COORDINATE MECHANICAL EQUIPMENT LOADS AND LOCATIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS AND MECHANICAL CONTRACTOR.

ABBREVIATIONS			
ACI	AMERICAN CONCRETE INSTITUTE	CRSI	CONCRETE REINFORCING STEEL INSTITUTE
AF&PA	AMERICAN FOREST & PAPER ASSOCIATION	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
APA	ENGINEERED WOOD ASSOCIATION	WTCA	WOOD TRUSS COUNCIL OF AMERICA
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		

CONSULTANT:



VAA, PLLC
2300 Sandhills Lane N, Suite 200
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NC Reg. Firm No. P-1840

PH: 763.559.9100
WWW.VAAENGINEERING.COM

CLIENT:



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PROJECT INFORMATION:

STORE NO.: #5421
MALLARD CREEK CHURCH CHARLOTTE
W MALLARD CREEK CHURCH RD AND
SENATOR ROYALL DR, CHARLOTTE, NC
28262

SEAL:

PROJECT NO. 240258

DRAWN BY TJM

CHECKED BY TJM/AR

ISSUE RECORD:

05.24.2024 PERMIT SET

07.10.2024 BID SET

09.23.2024 CONSTRUCTION SET

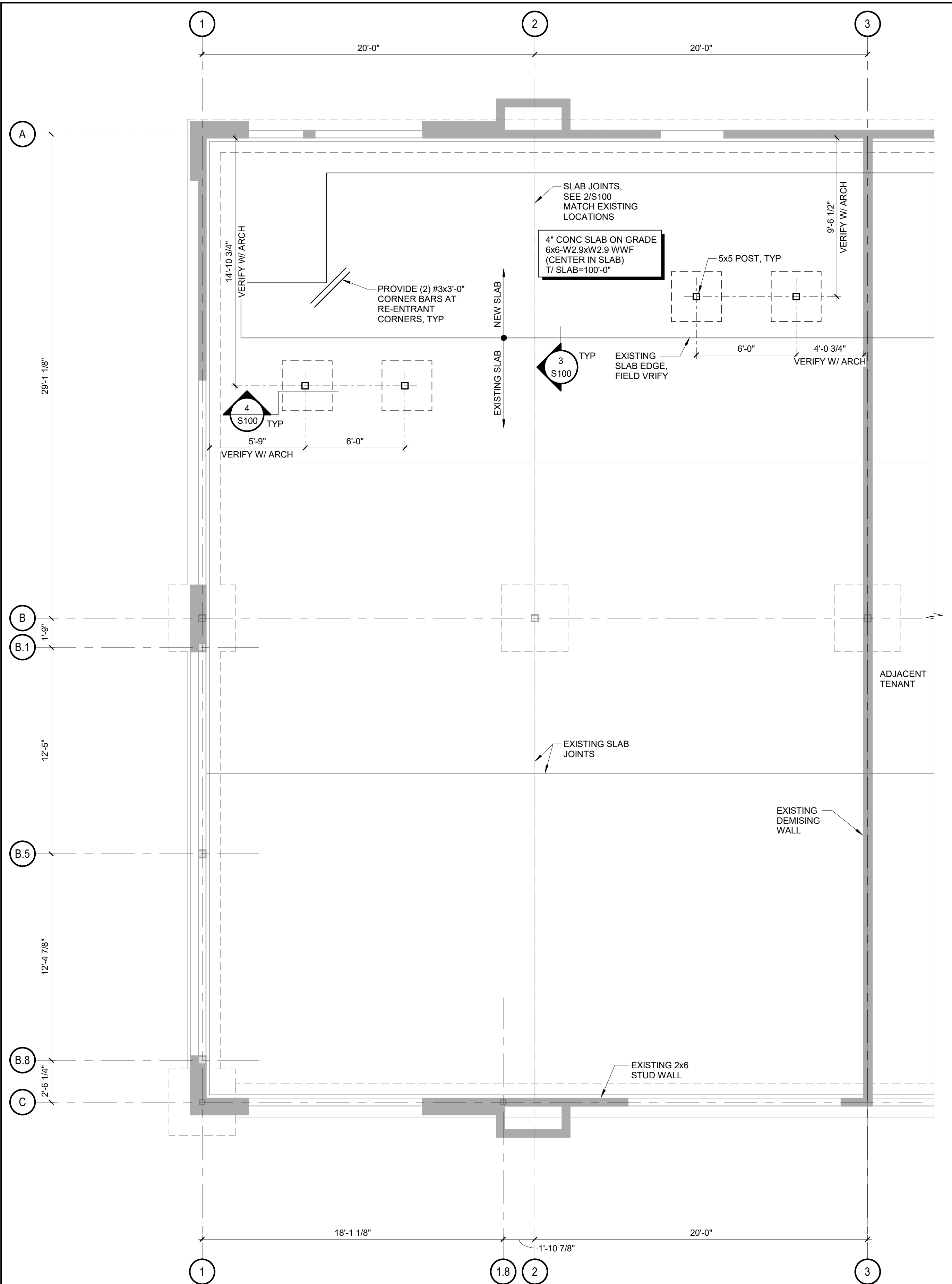
REVISIONS:

TITLE:

GENERAL
STRUCTURAL
NOTES

SHEET NUMBER:

S000

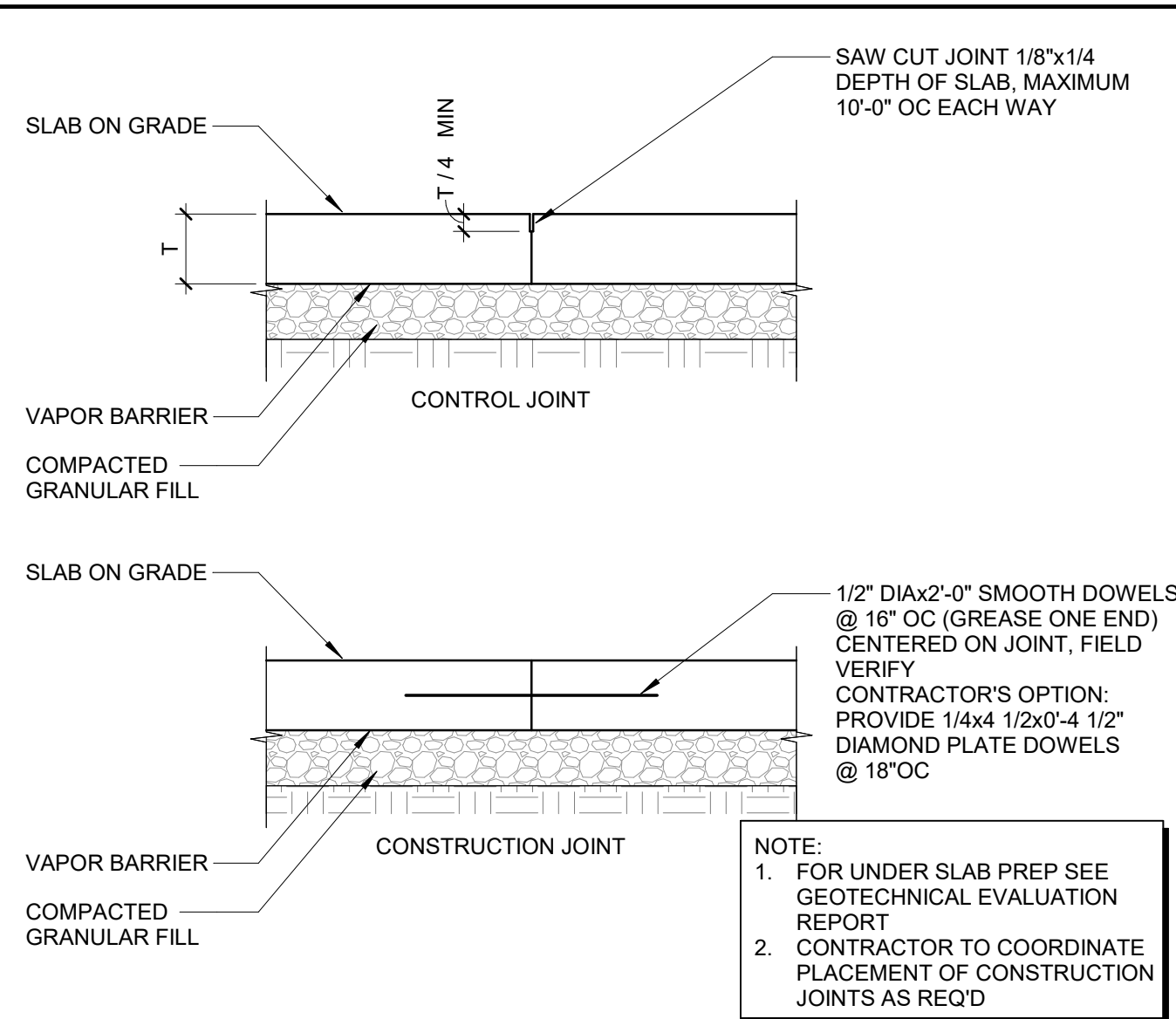


1 S100 SLAB ON GRADE PLAN

1/4" = 1'-0"

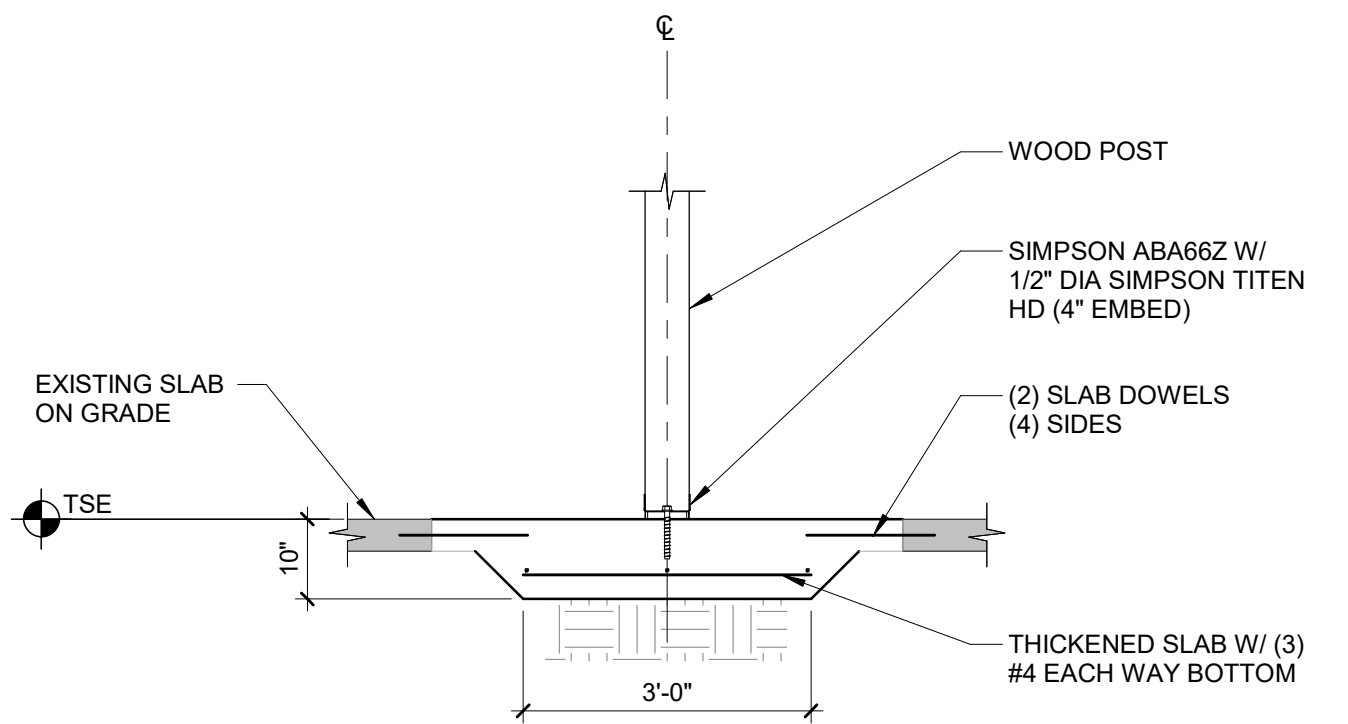
SLAB PLAN NOTES:

- FOR GENERAL STRUCTURAL NOTES SEE SHEET S000
- CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, CONDITIONS, ETC PRIOR TO DEMOLITION, FABRICATION AND CONSTRUCTION
- EXISTING STRUCTURAL INFORMATION IS BASED ON STRUCTURAL DRAWINGS PREPARED BY FULLER STRUCTURAL, INC DATED 05.04.2022.



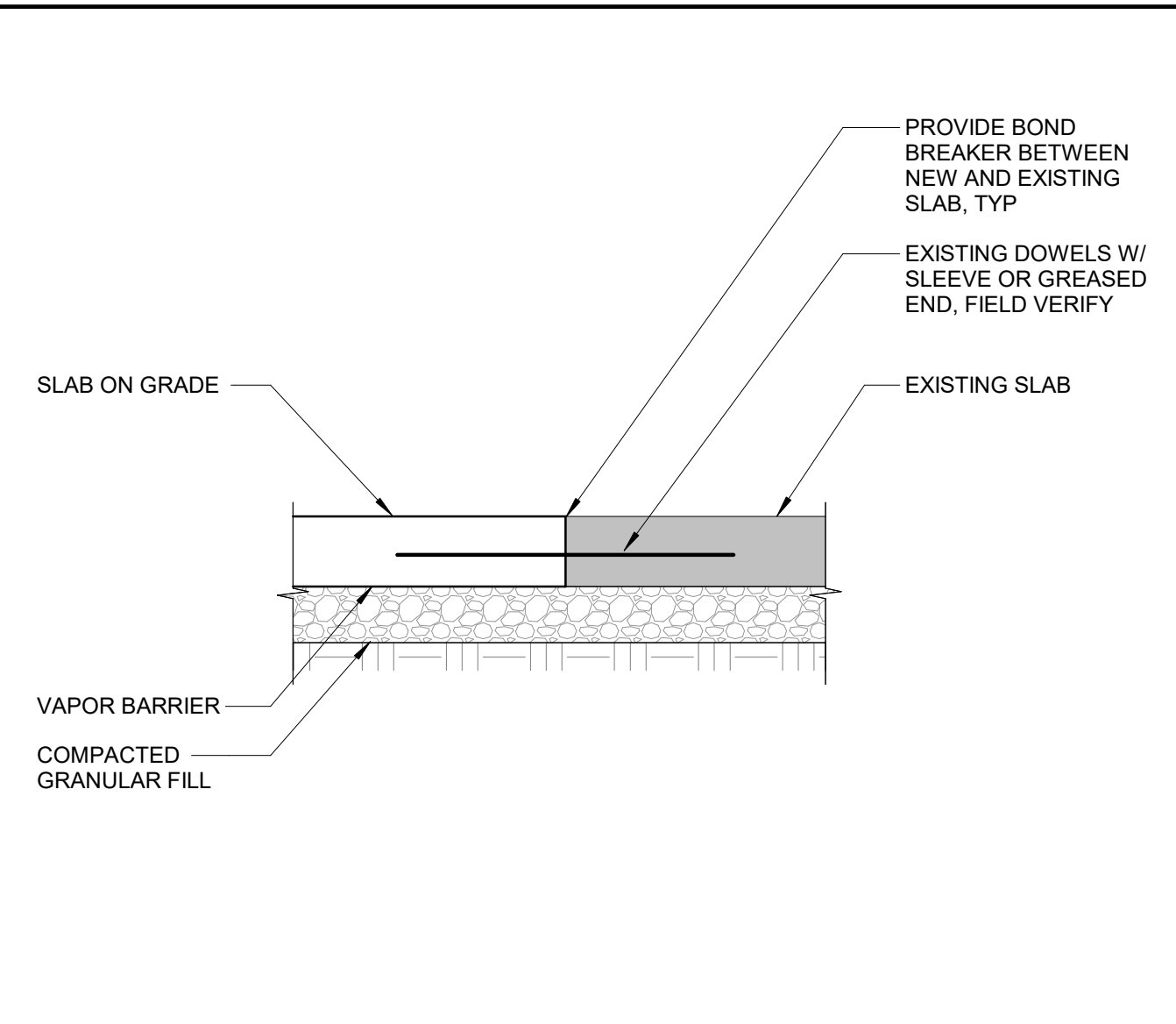
2 S100 INTERIOR SLAB JOINTS

1" = 1'-0"



4 S100 THICKENED SLAB DETAIL

1/2" = 1'-0"



3 S100 SLAB INFILL DETAIL

1" = 1'-0"

CONSULTANT:



CLIENT:



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28262

SEAL:

PROJECT NO. 240258
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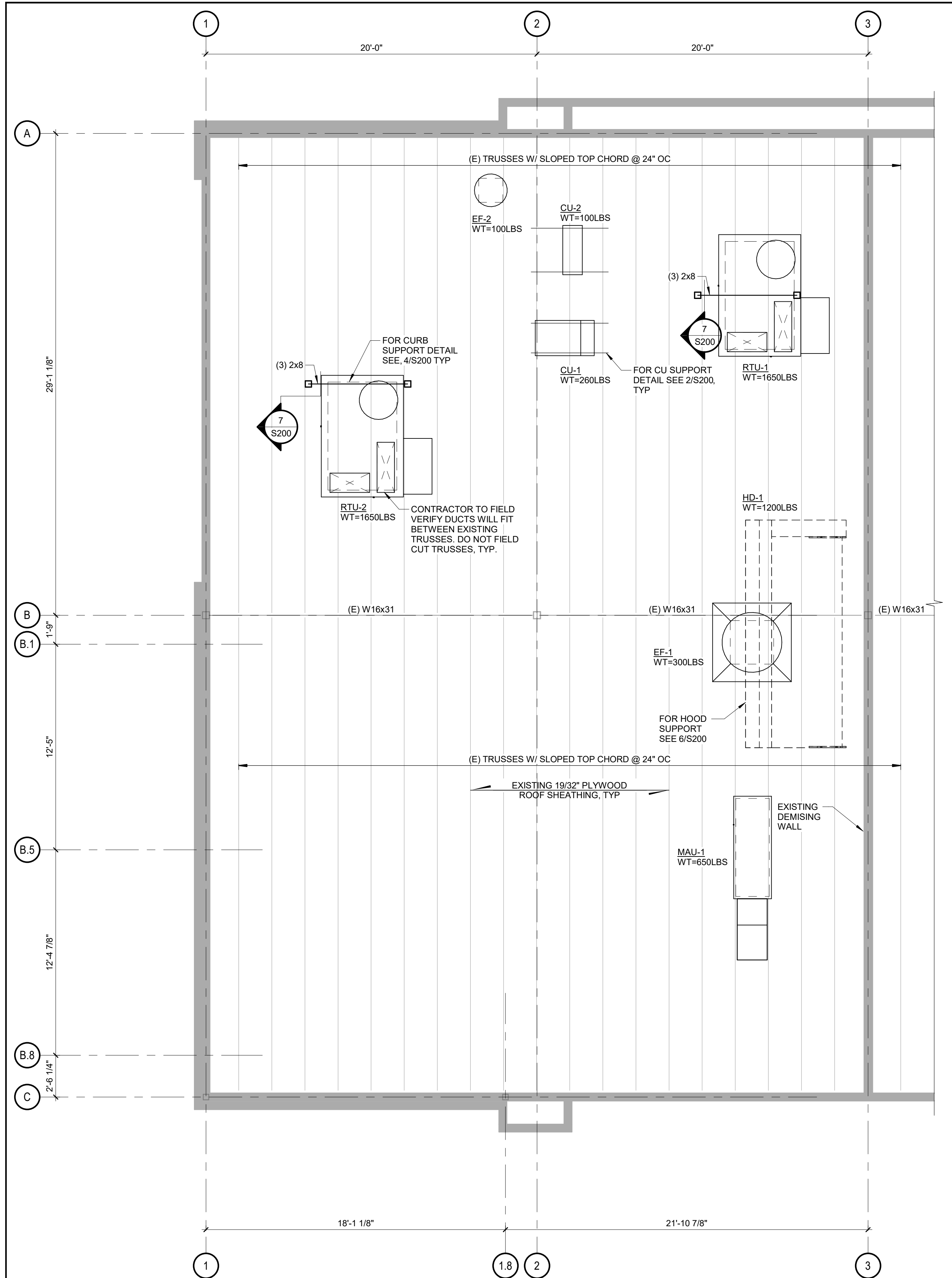
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05.24.2024 PERMIT SET
07.10.2024 BID SET
09.23.2024 CONSTRUCTION SET

REVISIONS:

TITLE:
SLAB ON GRADE
PLAN AND DETAILS

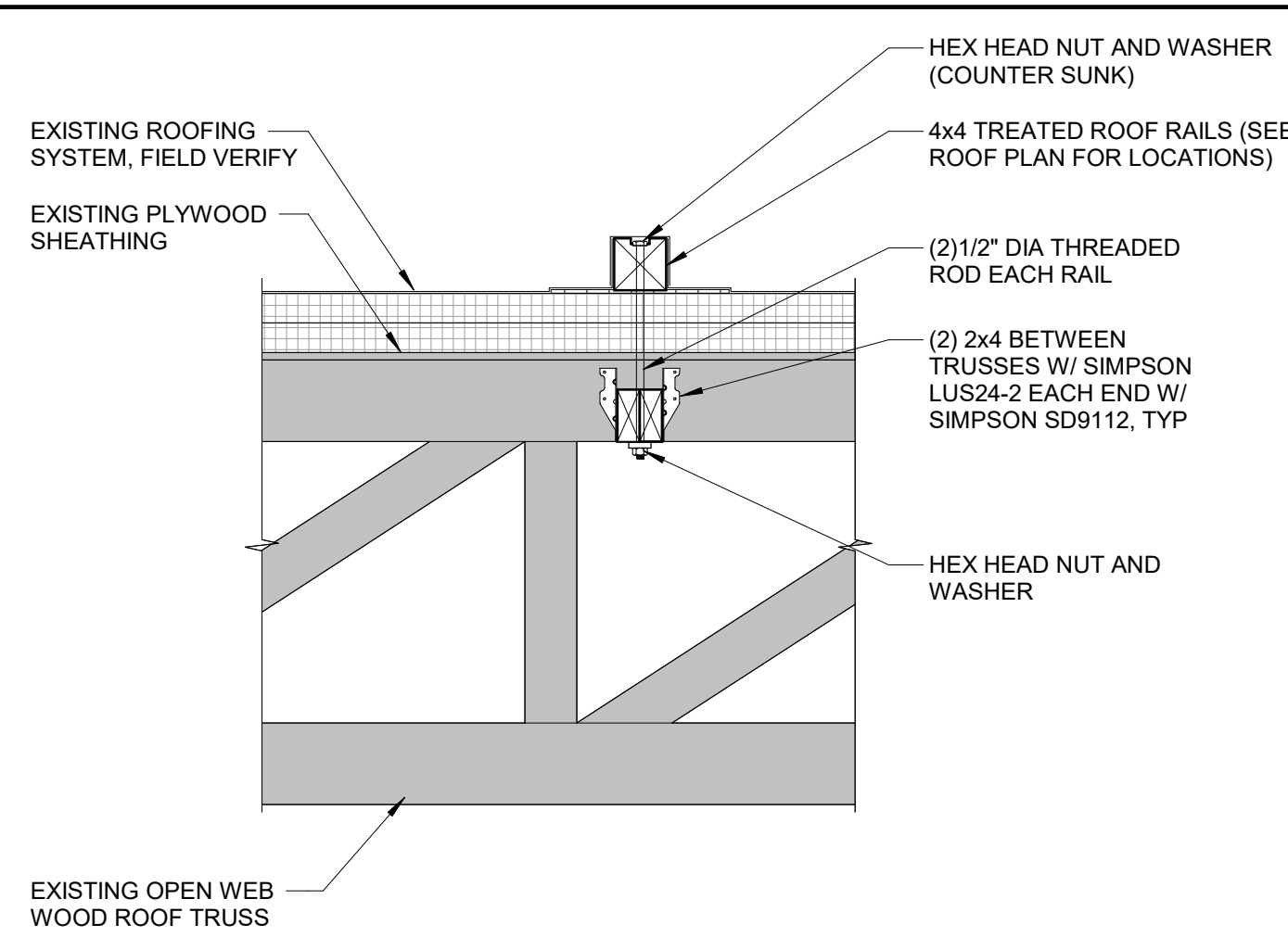
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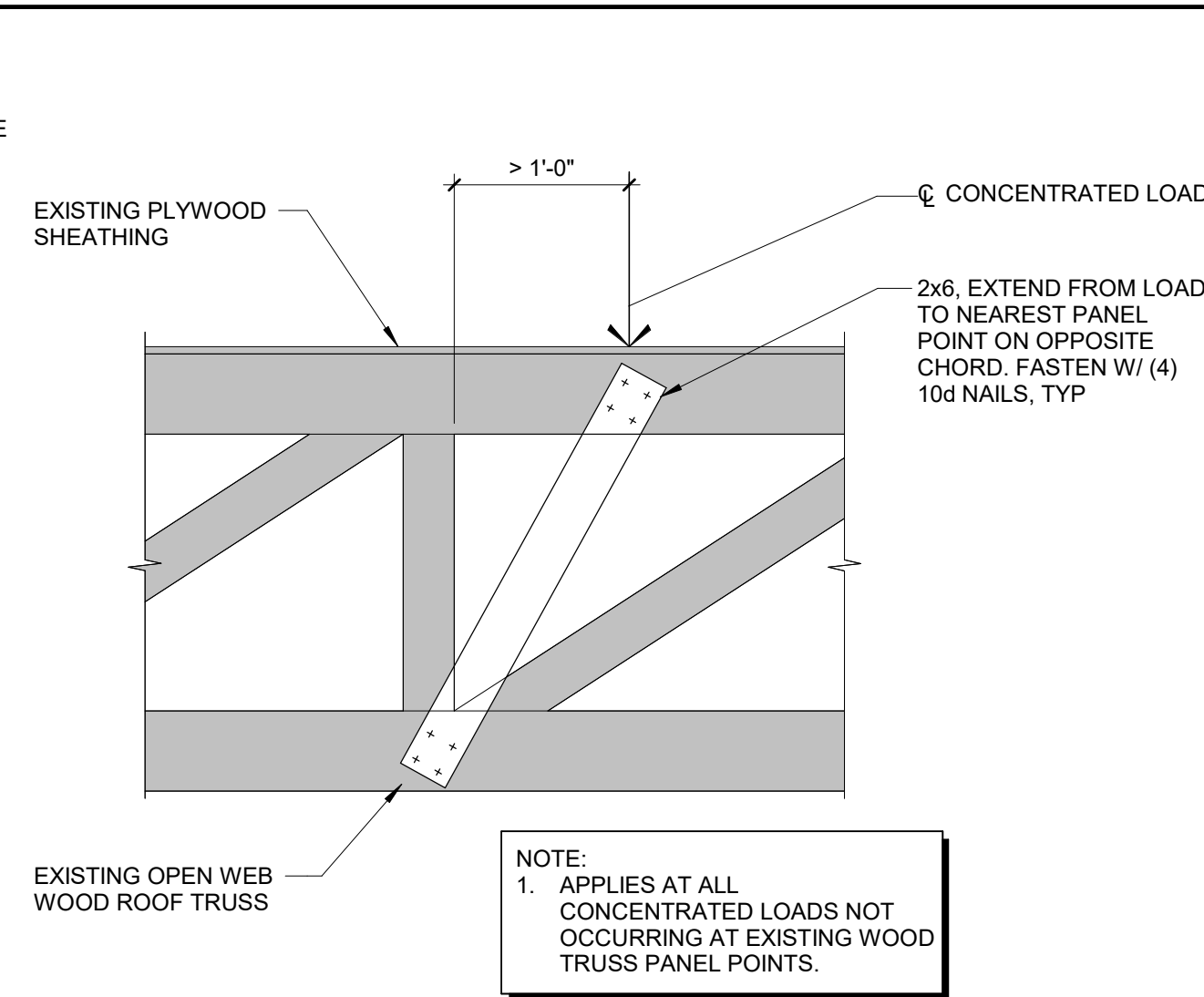
EQUIPMENT SUPPORT PLAN

- EQUIPMENT SUPPORT PLAN NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE SHEET S000
 - CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, CONDITIONS, ETC PRIOR TO DEMOLITION, FABRICATION AND CONSTRUCTION
 - FOR ROOF DECK OPENINGS LARGER THAN 8" SEE 4/S200
 - EXISTING STRUCTURAL INFORMATION IS BASED ON STRUCTURAL DRAWINGS PREPARED BY FULLER STRUCTURAL, INC DATED 05.04.2022.



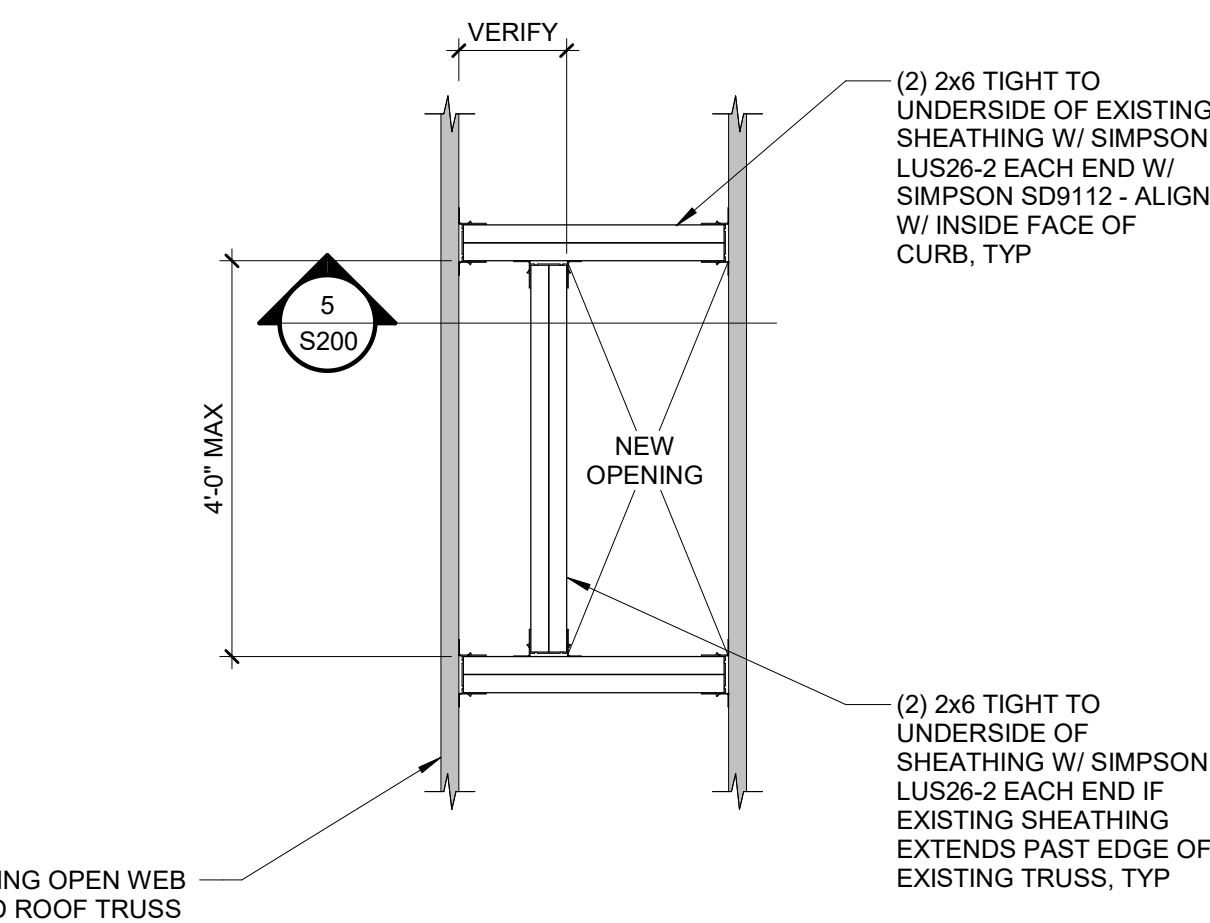
CU SUPPORT DETAIL

1" = 1'-0"



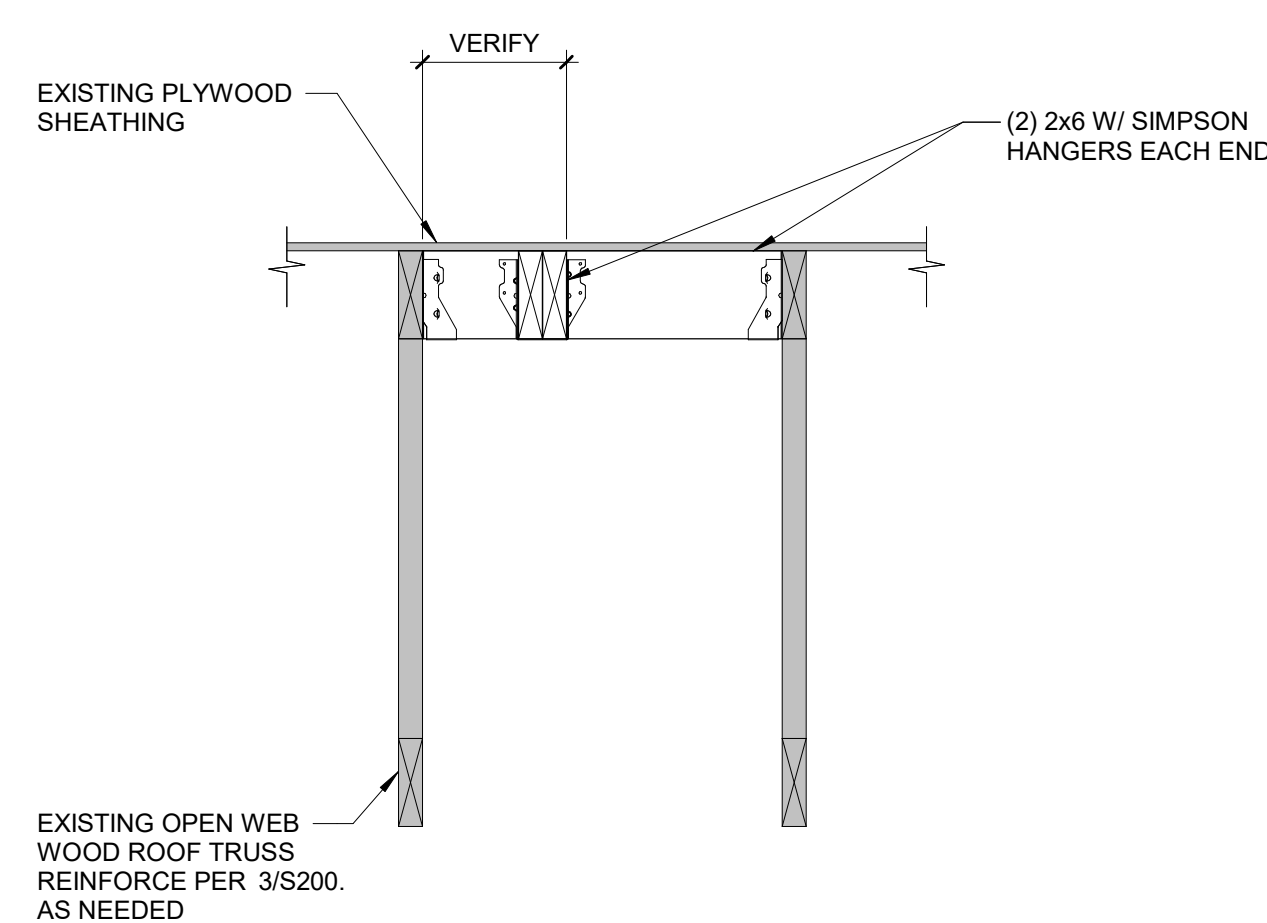
TRUSS CHORD REINFORCING DETAIL

1" = 1'-0"



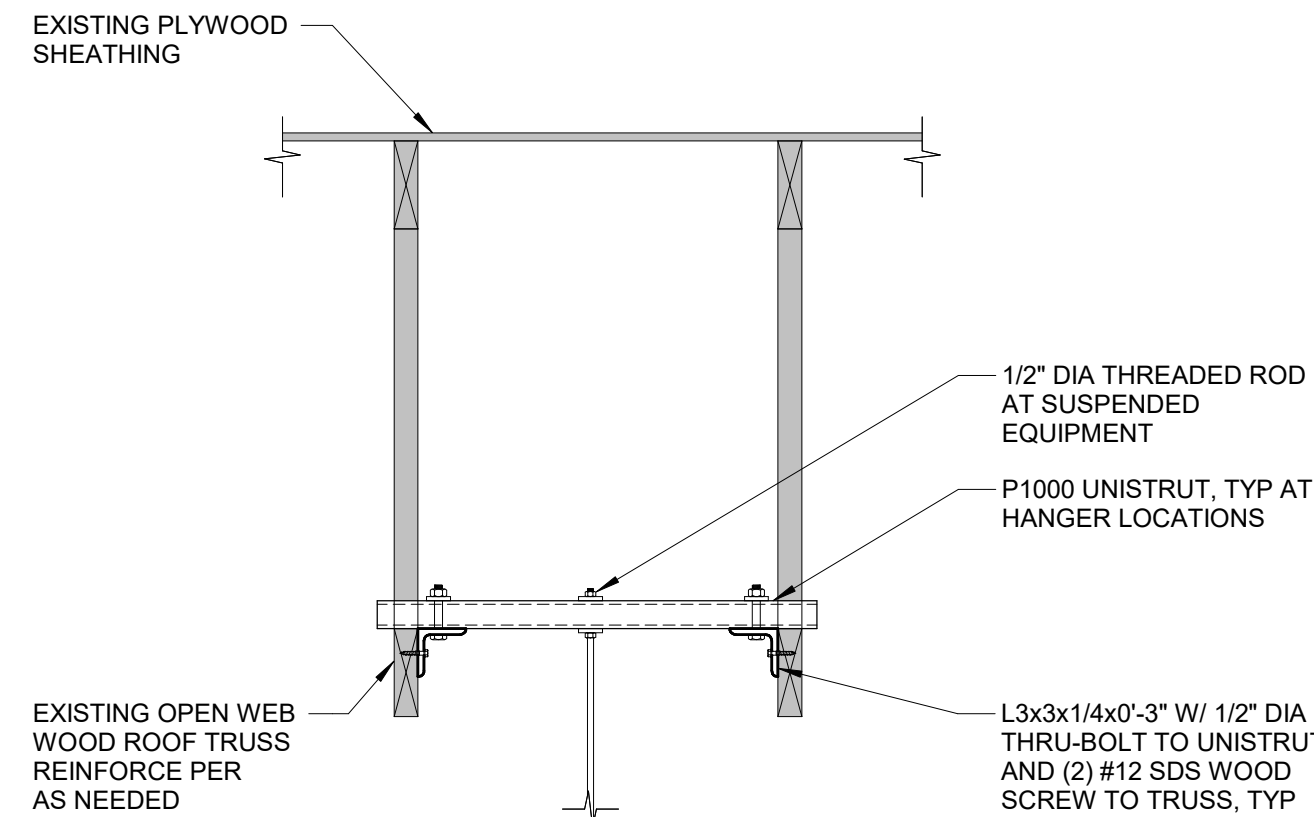
ROOF FRAME DETAIL

3/4" = 1'-0"



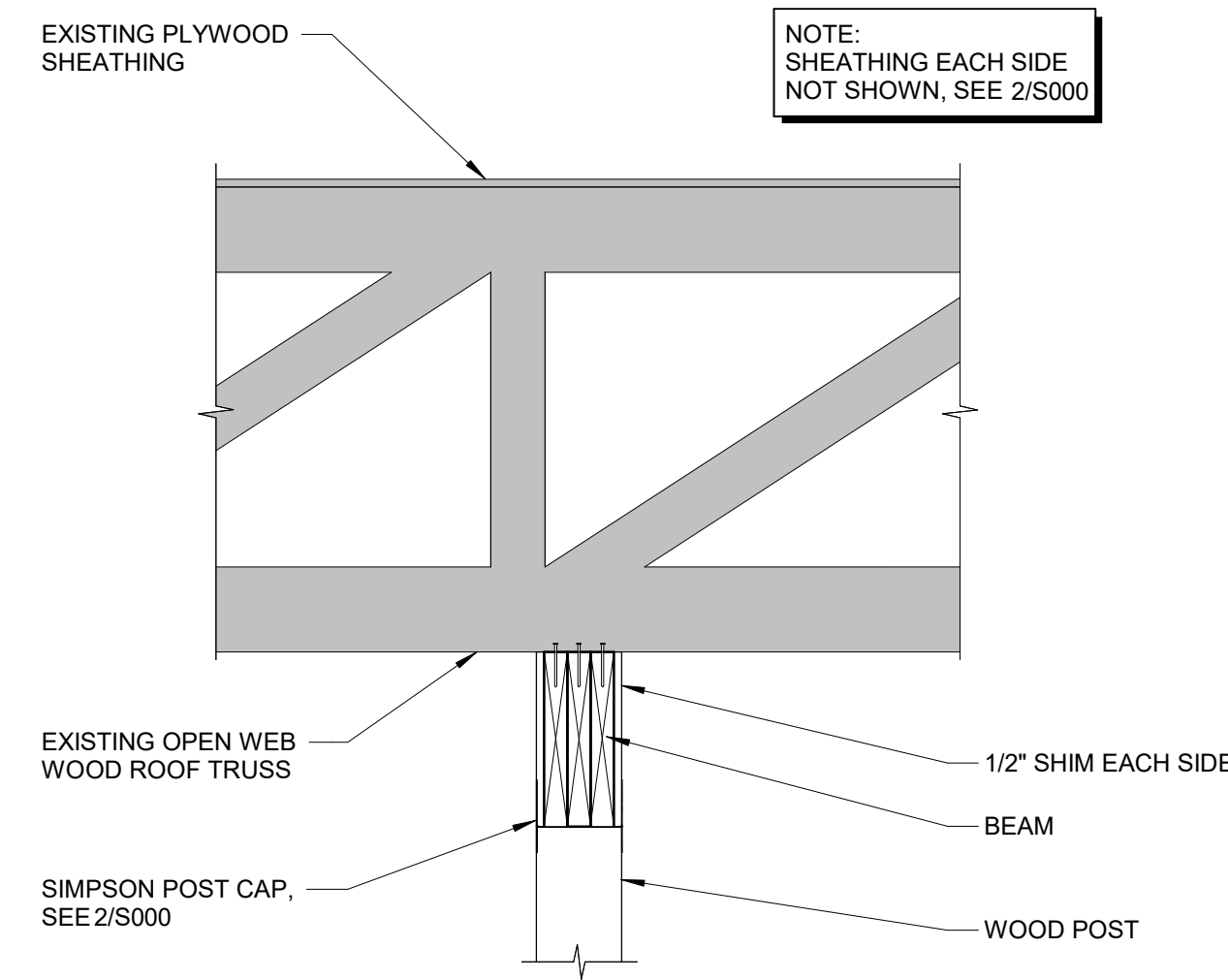
ROOF FRAME DETAIL

1" = 1'-0"



SUSPENDED EQUIPMENT DETAIL

1" = 1'-0"



TRUSS REINFORCING DETAIL

1" = 1'-0"

CONSULTANT:
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63.559.9100
www.vaaeng.com

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28262

SEAL:

PROJECT NO. 240258
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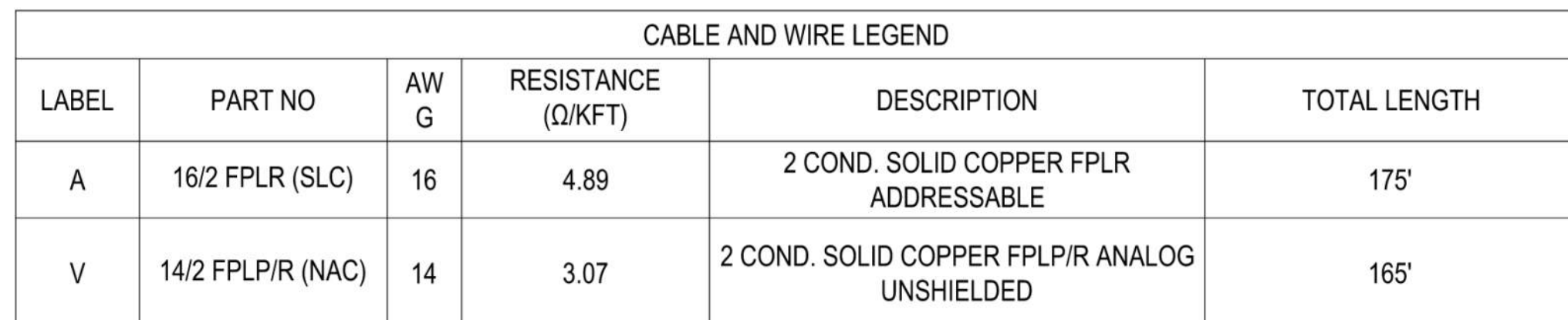
ISSUE RECORD:
05.24.2024 PERMIT SET
07.10.2024 BID SET
09.23.2024 CONSTRUCTION SET

REVISIONS:

TITLE:
EQUIP SUPPORT
PLAN AND DETAILS

SHEET NUMBER:

S200



2

FA01

FIRE ALARM NOTES

SCALE: NTS

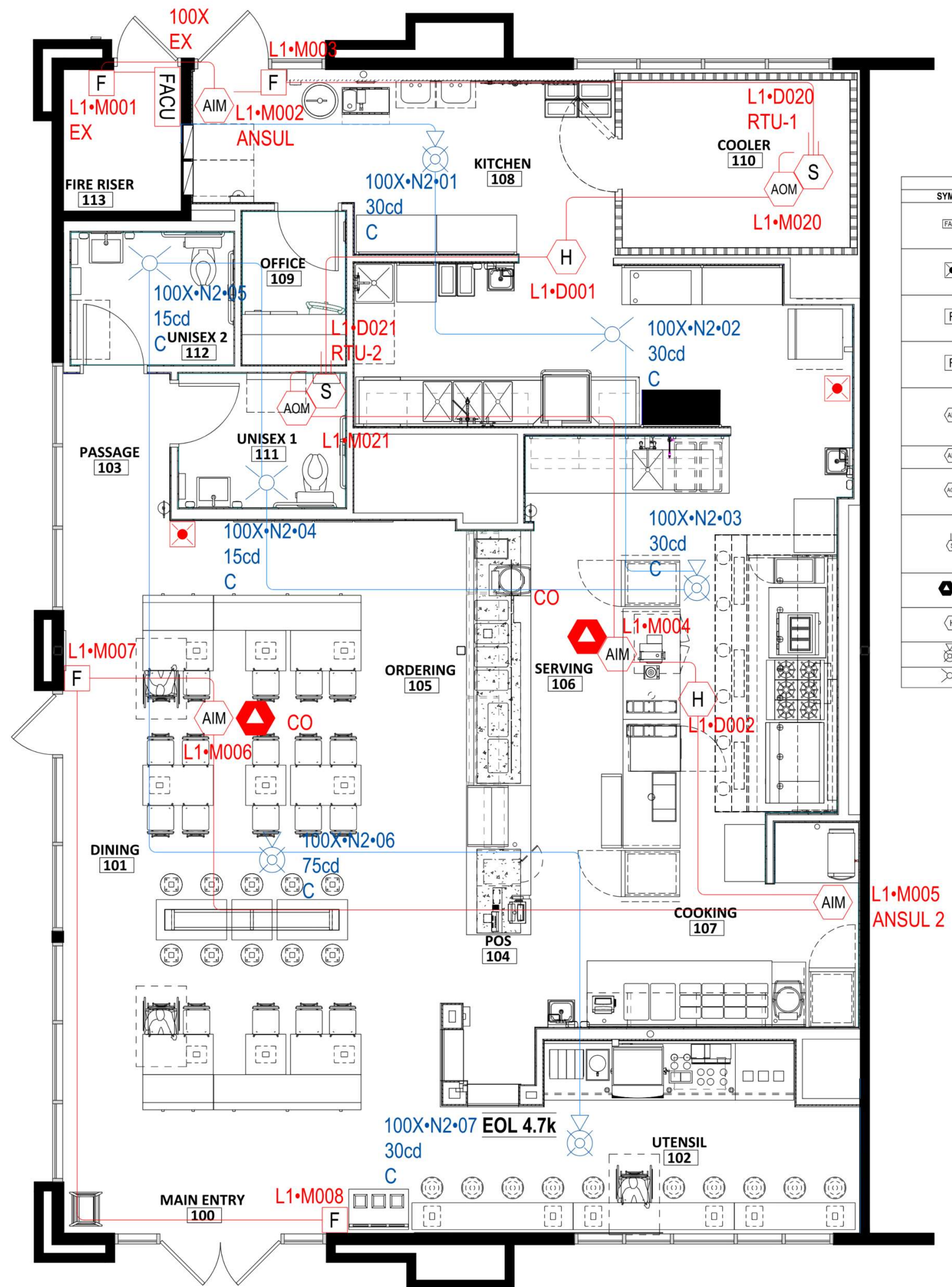
3 FIRE ALARM MATRIX

5	N/A	N/A	N/A
4	N/A	N/A	N/A
3	N/A	N/A	N/A
2	N/A	N/A	N/A
1	N/A	N/A	N/A
REV:	DESCRIPTION:	BY:	DATE:
SCOPE: FA			

SCALE: NTS	DATE: 8/15/24	DRAWN: AJB	CHECKED: AJB
PROJECT NO: 6535-24	REF. DRAWING SHEETS: N/A		SHEET #: FA01

Notes:

F001



DEVICE LEGEND							
SYMBOL	QTY	EXISTING	MANUFACTURER	PART NO	DESCRIPTION	SIZE	MOUNTING
[FACU]	1	X	NOTIFIER	NFW-100X	FIREWARDEN-100X (NFW-100X) INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR REMOTE TEST STATION W/ SWITCH, ALARM & POWER LEDS, KEY RESET	4" SQ. DEEP	FLUSH
[S]	2		NOTIFIER	RTS151KEY	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE	4" SQ. DEEP	FLUSH
[F]	1	X	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE	4" SQ. DEEP	FLUSH
[F]	3		NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE	4" SQ. DEEP	FLUSH
[AM]	2		NOTIFIER	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT	4" SQ. DEEP	FLUSH
[AM]	2		NOTIFIER	FMM-101	ADDRESSABLE MINI MONITOR MODULE	4" SQ. DEEP	FLUSH
[AM]	2		NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS	4" SQ. DEEP	FLUSH
[D]	2		NOTIFIER	DNR W/SP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/ FSP-951R, FLASHSCAN AND CLIP MODE	N/A	FLUSH
[CO]	2		SYSTEM SENSOR	CO1224TR	CARBON MONOXIDE DETECTOR WITH REALTEST		
[H]	2		NOTIFIER	FST-951 W/B300-6	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY, 2-WIRE, HORN STROBE, CEILING, WHITE	4" SQ. DEEP	FLUSH
[C]	4		SYSTEM SENSOR	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE		
[C]	3		SYSTEM SENSOR	SCWLED	STROBE, CEILING, WHITE		

GENERAL NOTES

1. ALL WORK TO THE FIRE ALARM SYSTEM SHALL COMPLY WITH ALL LOCAL FIRE CODES, LAWS, REGULATIONS, ORDINANCES, AND THE REQUIREMENTS OF NFPA 72, 2013 EDITION.

2. ALL NEW FIRE ALARM DEVICES SHALL BE ADA APPROVED. COORDINATE COLOR WITH ARCHITECT AND BASE BUILDING DEVICES TO MATCH BASE BUILDING SYSTEM MANUFACTURER. PROVIDE ANY ADDITIONAL POWER AMPIFIERS REQUIRED FOR INSTALLATION OF NEW ADA APPROVED DEVICES.

3. SYSTEM SHALL BE MONITORED BY A UL LISTED STATION.

4. ALL EQUIPMENT TO BE UL LISTED.

5. NFPA 72 5.4 WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 96" AFF. LBI RECOMMENDS THAT BOXES BE INSTALLED AT 80" TO BOTTOM.

6. UPON ACTIVATION OF ANY ALARM, ALL AUDIBLE AND VISUAL APPLIANCES SHALL ACTIVATE, AS WELL AS, ALL AHJ'S SHUTDOWN.

7. UPON ACTIVATION OF SMOKE DETECTOR IN PASSENGER/FREIGHT ELEVATORS LOBBIES ON ANY LEVEL ABOVE 1ST, ELEVATORS SHALL RETURN TO 1ST LEVEL.

8. UPON GENERAL ALARM, ALL EVACUATION SIGNALS SHALL BE A THREE PLUS TEMPORAL PATTERN.

5	N/A	N/A	N/A
4	N/A	N/A	N/A
3	N/A	N/A	N/A
2	N/A	N/A	N/A
1	N/A	N/A	N/A
REV	DESCRIPTION	BY	DATE
SCOPE	FA		

LEFLER ELECTRONICS, INC.
2610 OAKVIEW DR. SW
CONCORD, NC 28027
PHONE: (704) 784-1022
FAX: (704) 784-2406
HTTPS://LELISYSTEMS.COM/

ENGINEER: NATIONAL ENGINEERING, LTD
4635 TRUAMAN BLVD SUITE 250
HILLIARD, OH 43026

ARCHITECT: WILKUS ARCHITECTS, P.A.
15 NINTH AVENUE NORTH
HOPKINS, MN 55343

SITE: CHIPOTLE MALLARD CREEK
3005 STELFOX ST
CHARLOTTE, NC 28262

CLIENT: B AND L CONSTRUCTION
390 BROSVILLE INDUSTRIAL RD
DANVILLE, VA 24541

SCALE: 3/8" = 1'-0"
DATE: 8/15/24
PROJECT NO: 6535-24
SHEET # FA101

CHIPOTLE MALLARD CREEK
OVERALL FIRE ALARM PLAN

OVERALL FIRE ALARM PLAN

1
FA101

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

Consultant:

NATIONAL ENGINEERING

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Hilliard, Ohio 43026
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: DENNIS ALT
(614) 595-0599
DALT@nationalengineering.com

Professional Engineer Seal
SEAL 031348
ENGINEER
RICHARD T. JONES
Signed On 09/11/2024 8:09:09 PM

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W MALLARD CREEK CHURCH RD AND
SENATOR ROYALL DR, CHARLOTTE, NC 28262

Issue Record:
05/28/2024 PERMIT SET
07/10/2024 BID SET
09/23/2024 CONSTRUCTION SET

Revisions:

Drawn: DAA
Checked: DAA

Project No:
2401078

Contents:

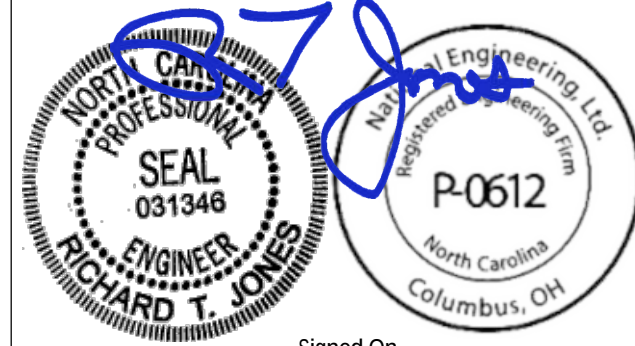
FIRE PROTECTION PLAN

F002

Consultant:



4635 Trueman Blvd. Suite 250
Hilliard, Ohio 43026
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: DENNIS ALT
(614) 595-0599
DALT@nationalengineering.com



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09/11/2024 8:09:09 PM

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09/23/2024 CONSTRUCTION SET

Revisions:

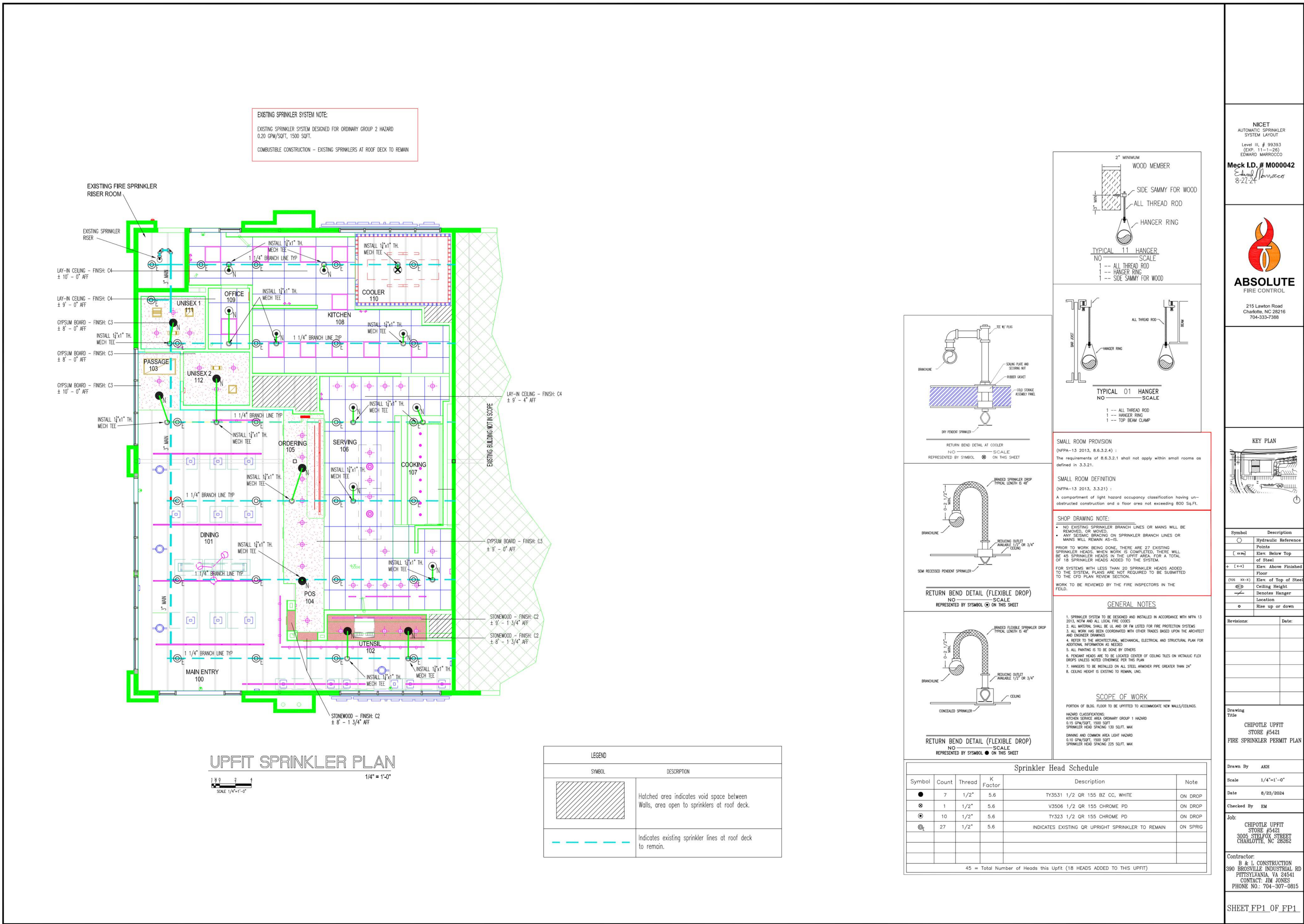
Drawn: DAA
Checked: DAA

Project No:
2401078

Contents:

FIRE PROTECTION
PLAN

F003



2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____
summer dry bulb: _____

Interior design conditions

winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System

Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____

Boiler

Size category. If oversized, state reason: _____

Chiller

Size category. If oversized, state reason: _____

List equipment efficiencies: _____

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.
B. Comply with ASHRAE 15.
C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
4. Condenser Fans: Direct drive propeller.
5. Refrigerant Coils: Aluminum fins and copper coil.
6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
8. Economizer controls (Comparative Enthalpy, 100% capacity).
9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
11. Roof curb.
12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
13. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install units level and plumb and firmly anchored.
B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
C. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
D. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data for fire and smoke dampers.
B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
E. Comply with UL 181 and UL 181A for ducts and closures.
F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).
- PART 2 - PRODUCTS
- 2.1 DUCTS
- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/G924
1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 8.
1. Adhesive: ASTM C 916, Type I.
2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
D. Joint and Seam Tape: Comply with UL 181A.
E. Joint and Seam Sealant: Comply with UL 181A.
F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.
- 2.2 ACCESSORIES
- A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
C. Avoid passing through electrical equipment spaces and enclosures.
D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
I. Install fusible links in fire dampers.
J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING

- A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

- A. All air terminal devices:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As scheduled.
5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED GEN. EXHAUST	RECTANGULAR OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, GEN. EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)

HVAC GENERAL NOTES

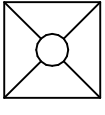
- A. GENERAL NOTES APPLY TO HVAC SHEETS.
B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS; REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.
K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).
M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

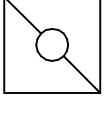
HVAC ABBREVIATIONS

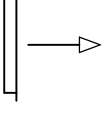
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
CD CEILING DIFFUSER
CU CONDENSING UNIT
(E) EXISTING
EF EXHAUST FAN
ER EXHAUST REGISTER
EXT'G EXISTING
HD HOOD
MUA MAKEUP AIR UNIT
OBD BLADE DAMPER
RG RETURN GRILLE
RTU ROOFTOP UNIT
SR SUPPLY REGISTER
VSC VARIABLE SPEED CONTROL

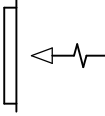
COZAS TENANT'S CO2 ALARM SUPPLIER
GC GENERAL CONTRACTOR
HES TENANT'S HVAC EQUIPMENT SUPPLIER
HS TENANT'S HOOD SUPPLIER
KES TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB TENANT'S TEST AND BALANCE VENDOR
TCC TENANT'S CABLING CONTRACTOR
TDC TENANT'S DUCT CLEANER
TEMS TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS TENANT'S LIGHT/LAMP SUPPLIER
TMB TENANT'S MENU BOARD SUPPLIER
TMS TENANT'S MILLWORK SUPPLIER
TP TENANT'S PHONE SUPPLIER
TPS TENANT'S PANELBOARD SUPPLIER
TRS TENANT'S RAILING SUPPLIER
TSV TENANT'S SIGN VENDOR
TUV TENANT'S UV SANITIZER SUPPLIER
WCS TENANT'S WALK-IN COOLER SUPPLIER
WHS TENANT'S WATER HEATER SUPPLIER

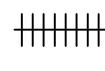
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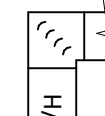
 CEILING DIFFUSER

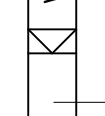
 CEILING-MOUNTED RETURN OR EXHAUST REGISTER

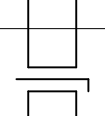
 SUPPLY REGISTER

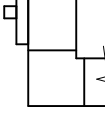
 RETURN GRILLE

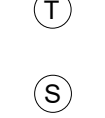
 FLEXIBLE DUCT

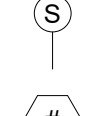
 MITERED CORNER WITH TURNING VANES

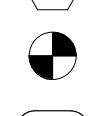
 DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION

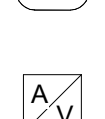
 DUCT-MOUNTED SMOKE DETECTOR

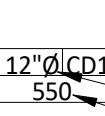
 MOTOR-OPERATED DAMPER

 MANUAL VOLUME DAMPER

 GREASE DUCT CLEANOUT

 MITERED CORNER WITHOUT TURNING VANES

 GRIDPOINT THERMOSTAT

 GRIDPOINT ZONE SENSOR MODULE

 GRIDPOINT SUPPLY PROBE

 PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING

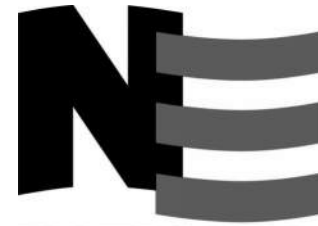
 CONNECT TO EXISTING

 EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION

 AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET

 GRILL, REGISTER, OR DIFFUSER TAG: TAG NECK SIZE AIRFLOW [CFM]

Consultant:



4635 Trueman Blvd. Suite 250
Hilliard, Ohio 43026
Phone: (614) 751-9610
Fax: (614) 552-5240
Contact: DENNIS ALT
(614) 595-0599
DALT@nationalengineering.com



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SENATOR ROYALL DR, CHARLOTTE, NC
28262

Issue Record:	
05/28/2024	PERMIT SET
07/10/2024	BID SET
09/23/2024	CONSTRUCTION SET

Revisions:	
1 07/08/2024	COUNTY COMMENTS

Drawn: MKT
Checked: DAA

Project No.
2401078

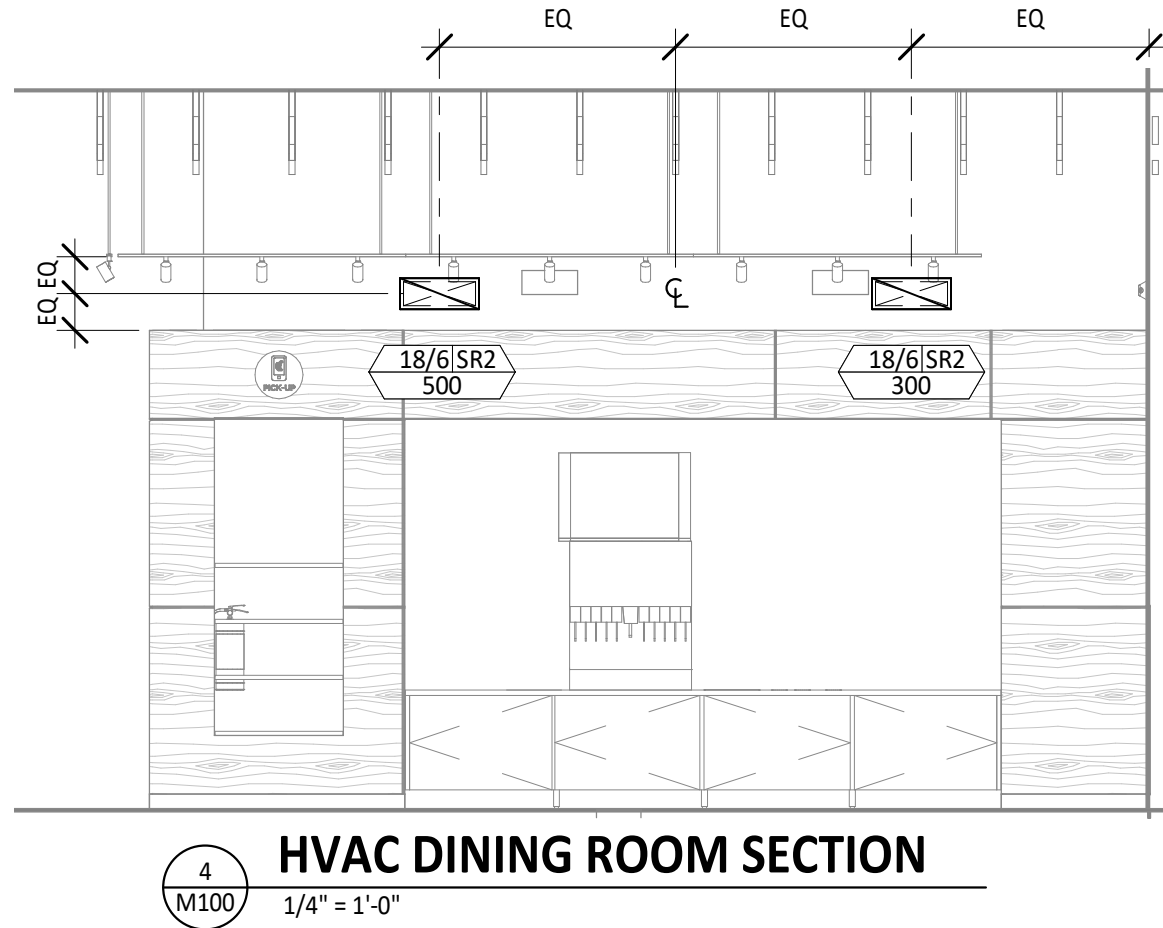
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HVAC
SPECIFICATIONS

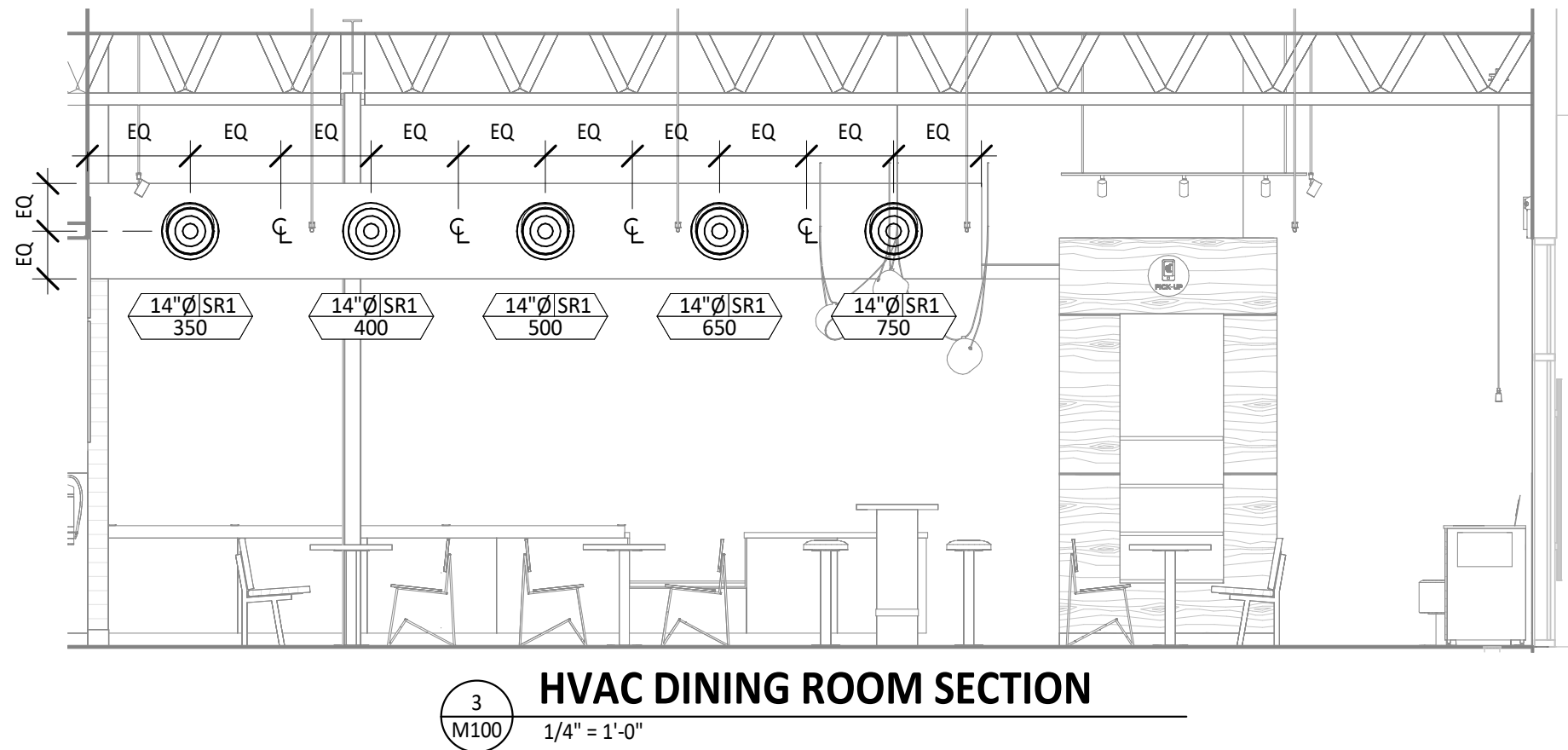
M010

HVAC PLAN NOTES

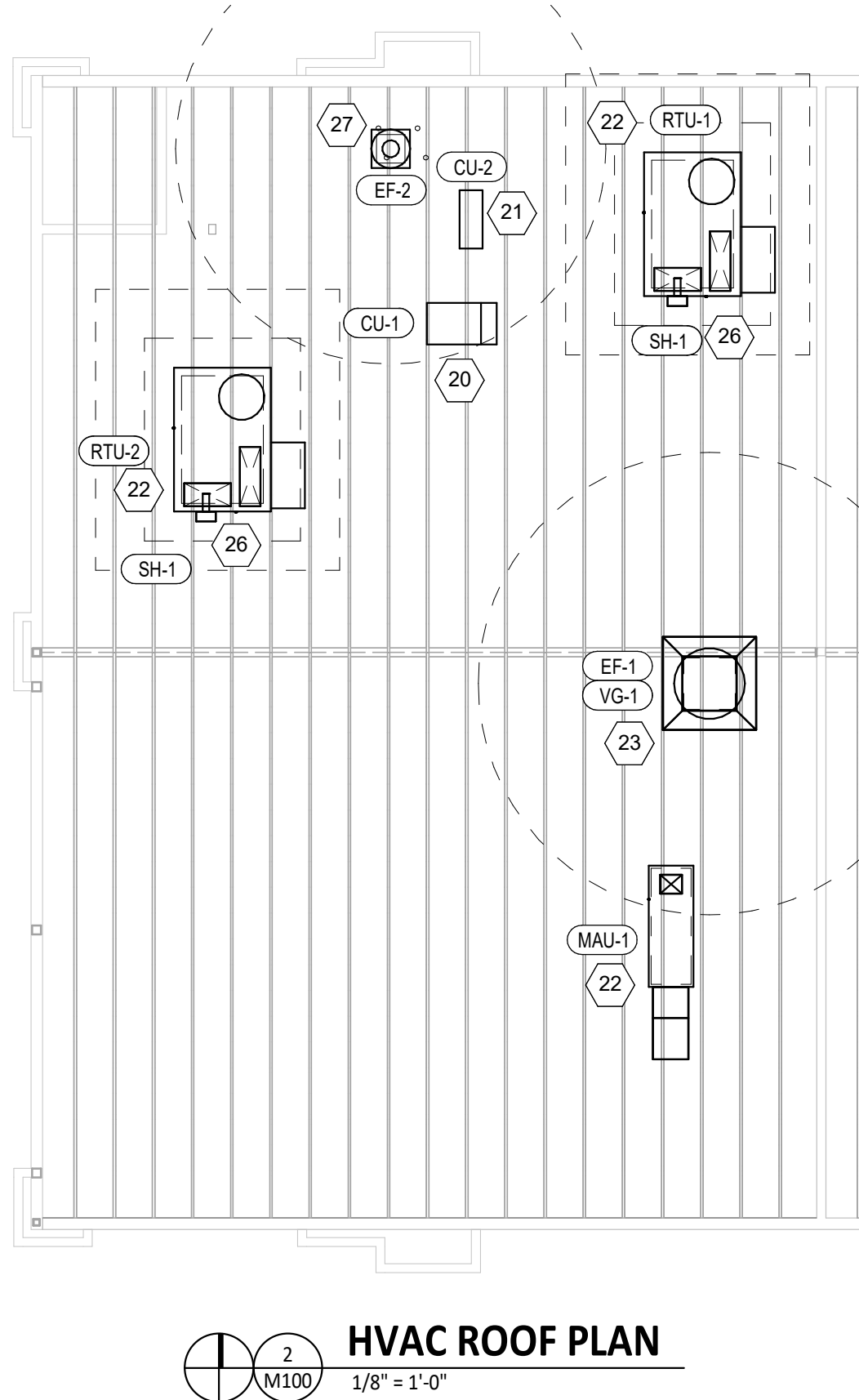
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS AND RETURN GRILL BLACK. TYPICAL.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
- 24/18 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 24/18 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 24/18 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 24/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL SINGLE GANG VERTICAL J-BOX GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- INSTALL KITCHEN HOOD, HD-1, SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING. IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.



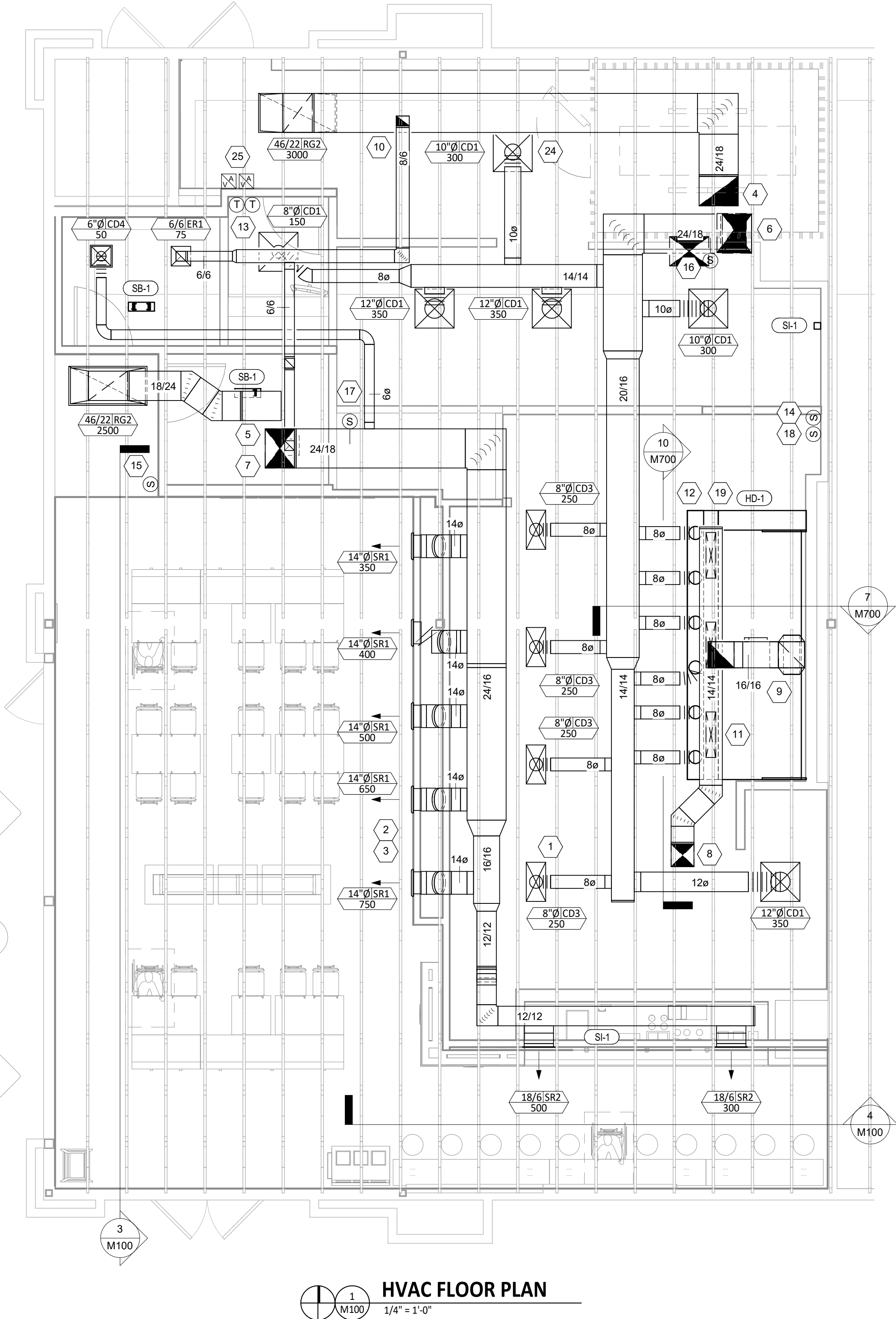
4 HVAC DINING ROOM SECTION
1/4" = 1'-0"



3 HVAC DINING ROOM SECTION
1/4" = 1'-0"

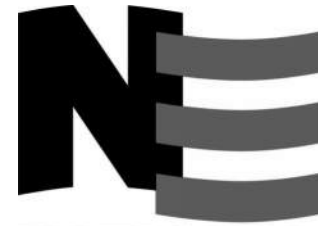


2 HVAC ROOF PLAN
1/8" = 1'-0"



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

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2401078

Contents:

HVAC PLAN

M100

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE										
TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD
CD3	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
CD4	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVIDE FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD

TAG	COUNT	DESCRIPTION	FURNISH ED BY	INSTALLE D BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	2	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

VIROGUARD SCHEDULE							
TAG	QUANTITY	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU180HFA	TDC	GC	ENVIROMATIC

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	2550 CFM	1.20 in-wg	400	2	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	150 CFM	0.60 in-wg	100	0.18 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB

MAKEUP AIR UNIT SCHEDULE															
TAG	DESCRIPTION	AIRFLOW		HEATING CAPACITY				APPROXIMATE WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		SUPPLY FLOW [CFM]	E.S.P. [in. W.C.]	INPUT [MBH]	OUTPUT [MBH]	MAXIMUM TURNDOWN	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	MAKEUP AIR UNIT	1300	0.80	225	220	12.5:1	0 °F	650	1 HP	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-449A	14.4 LBS	200	15 A	6.5 A	208/3/60	WCS	GC	HARFORD	PCL99MOP-3	FURNISHED WITH WALK-IN COOLER
CU-2	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER

KITCHEN HOOD SCHEDULE																										
TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM							PERFORATED SUPPLY PLENUMS										NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			AIRFLOW [CFM]	SP [in. W.C.]	DUCT COLLARS			LENGTH	WIDTH	SP [in. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	MAU PLENUM			AC PLENUM										
					NO.	WIDTH	LENGTH						AIRFLOW [CFM]	DUCT COLLARS		AIRFLOW [CFM]	DUCT COLLARS									
														NO.	WIDTH			LENGTH	NO.					DIAMETER		
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	2550	0.97	1	10"	24"	12" - 9"	4' - 3"	0.1	13' - 9"	19"	1300	3	6"	28"	700	6	8"	8	1100	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH VERTICAL END PANELS, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE																											
TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW			NET COOLING CAPACITY				HEATING CAPACITY			# OF COMPRESSORS	# OF CIRCUITS	REFRIG. TYPE	REFRIG. CHARGE	APPROX. WEIGHT [lbs]	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL [CFM]	OA [CFM]	ESP [IN. W.C.]	TOTAL [MBH]	SENSIBLE [MBH]	EAT [DEG. F]		COND. EAT [DEG. F]	INPUT [MBH]	OUTPUT [MBH]						EAT [DEG. F]	MOCP	FLA			V/P/H	MANUFACTURER		MODEL
									DB	WB																	
RTU-1	KITCHEN ROOFTOP UNIT	10	12	3500	500	0.8	113	70	76	66	98	250	205	61	2	2	R-410A	25.6	1500	60 A	49.0 A	208/3/60	HES	GC	CARRIER	48FC_N12	FURNISHED WITH DEHUMIDIFICATION, HINGED ACCESS PANELS, ULTRA LOW LEAK ECONOMIZER W/ DUAL ENTHALPY CONTROLS, BAROMETRIC RELIEF, SUPPLY SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, MERV-8 FILTERS, CURB, HAIL GUARD, DISCONNECT, & UNIT-MOUNTED NON-POWERED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOFTOP UNIT	10	12	3500	1000	0.8	117	73	79	68	98	250	205	54	2	2	R-410A	25.6	1500	60 A	49.0 A	208/3/60	HES	GC	CARRIER	48FC_N12	FURNISHED WITH DEHUMIDIFICATION, HINGED ACCESS PANELS, ULTRA LOW LEAK ECONOMIZER W/ DUAL ENTHALPY CONTROLS, BAROMETRIC RELIEF, SUPPLY SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, MERV-8 FILTERS, CURB, HAIL GUARD, DISCONNECT, & UNIT-MOUNTED NON-POWERED CONVENIENCE RECEPTACLE

For CU-1 the WIC condensing unit uses R-449A which is not shown in the 2018 NCMC version as derived from the 2015 IMC however it was added to the 2018 IMC and shows 23 lbs per 1,000 cubic feet allowed. The volume we have 35505 * (23/1000) = 816 lbs allowed of R-449A and per our schedule on M600 CU-1 will only have 14.4 lbs.

R449A - A1 - Class A - Occ Class 2 - Low Probability - 23LBS/1,000 CUBIC FEET OR 100,000 PPM

AIR BALANCE SCHEDULE				
Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	2550	-2550
EF-2	0	0	150	-150
MAU-1	1300	0	0	1300
RTU-1	3500	3000	0	500
RTU-2	3500	2500	0	1000
Net Pressurization [CFM]				100

CONTROL FUNCTIONS

- A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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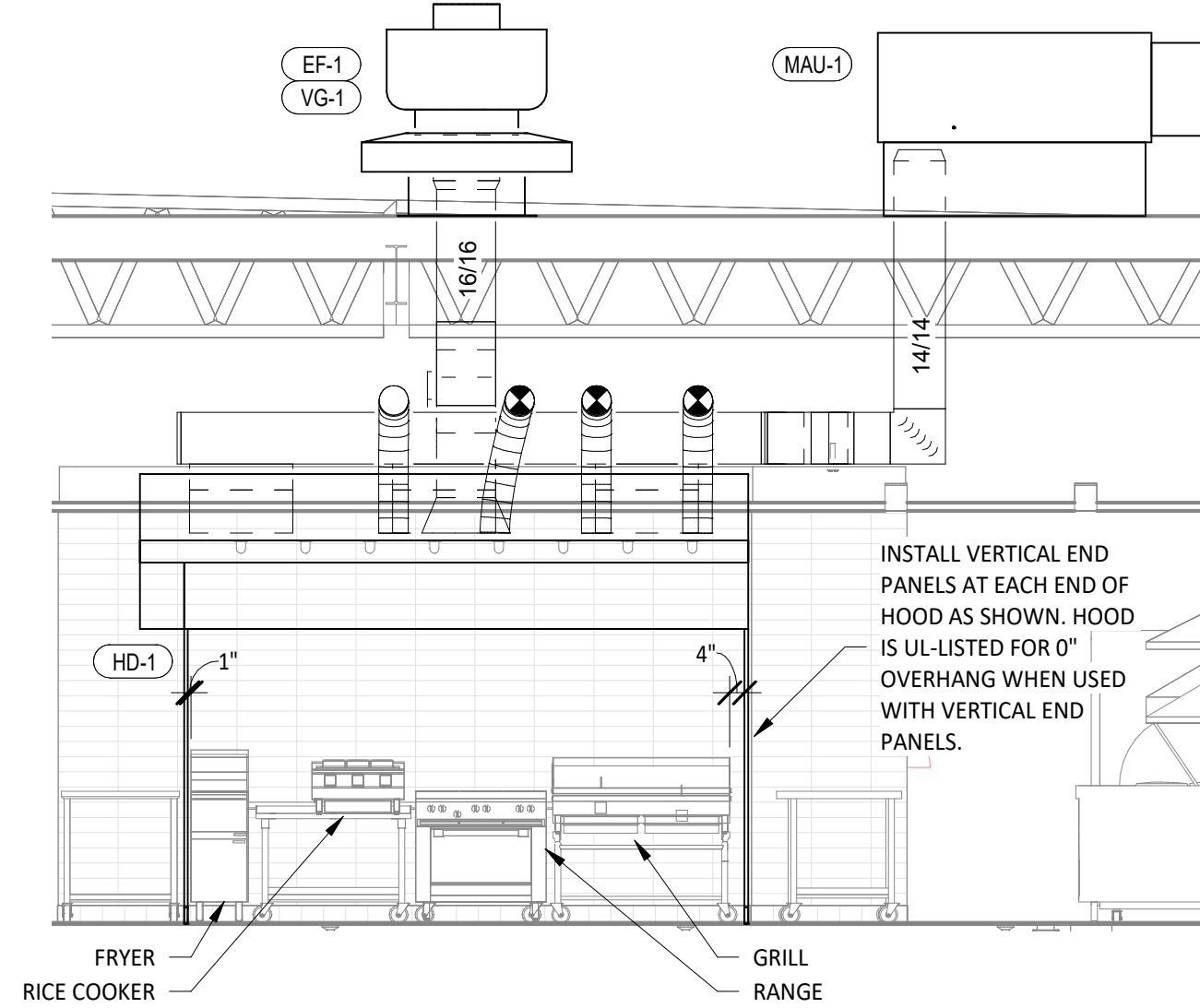
Project No.

2401078

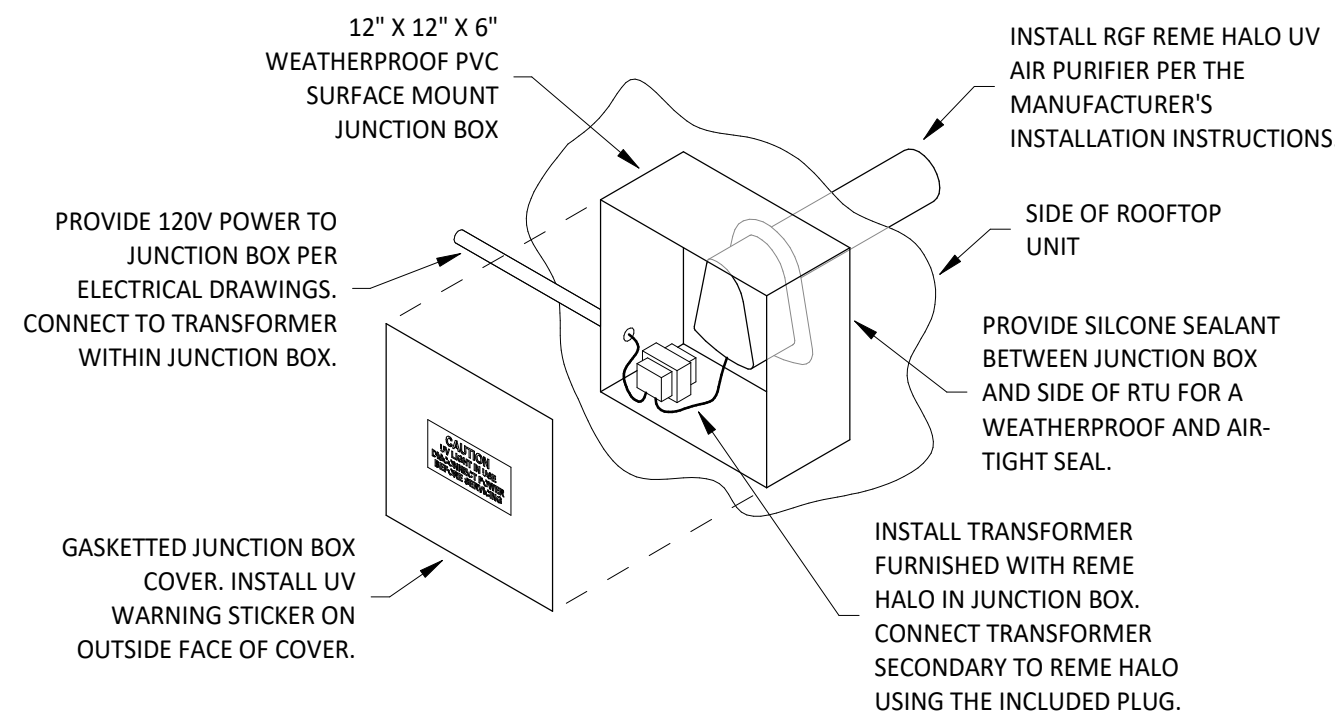
Contents:

HVAC SCHEDULES

M600

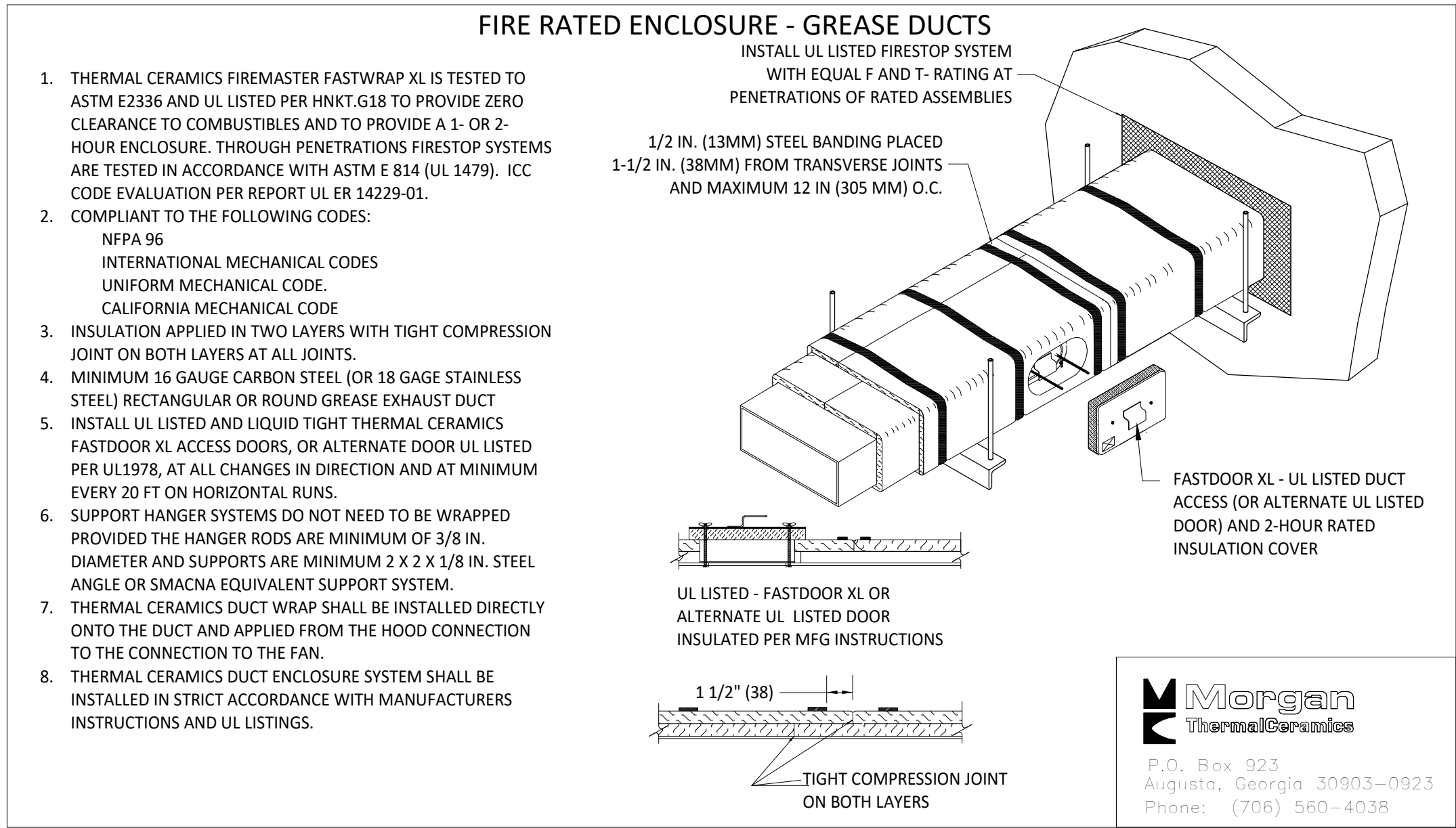


10
M700
HOOD ELEVATION
1/4" = 1'-0"

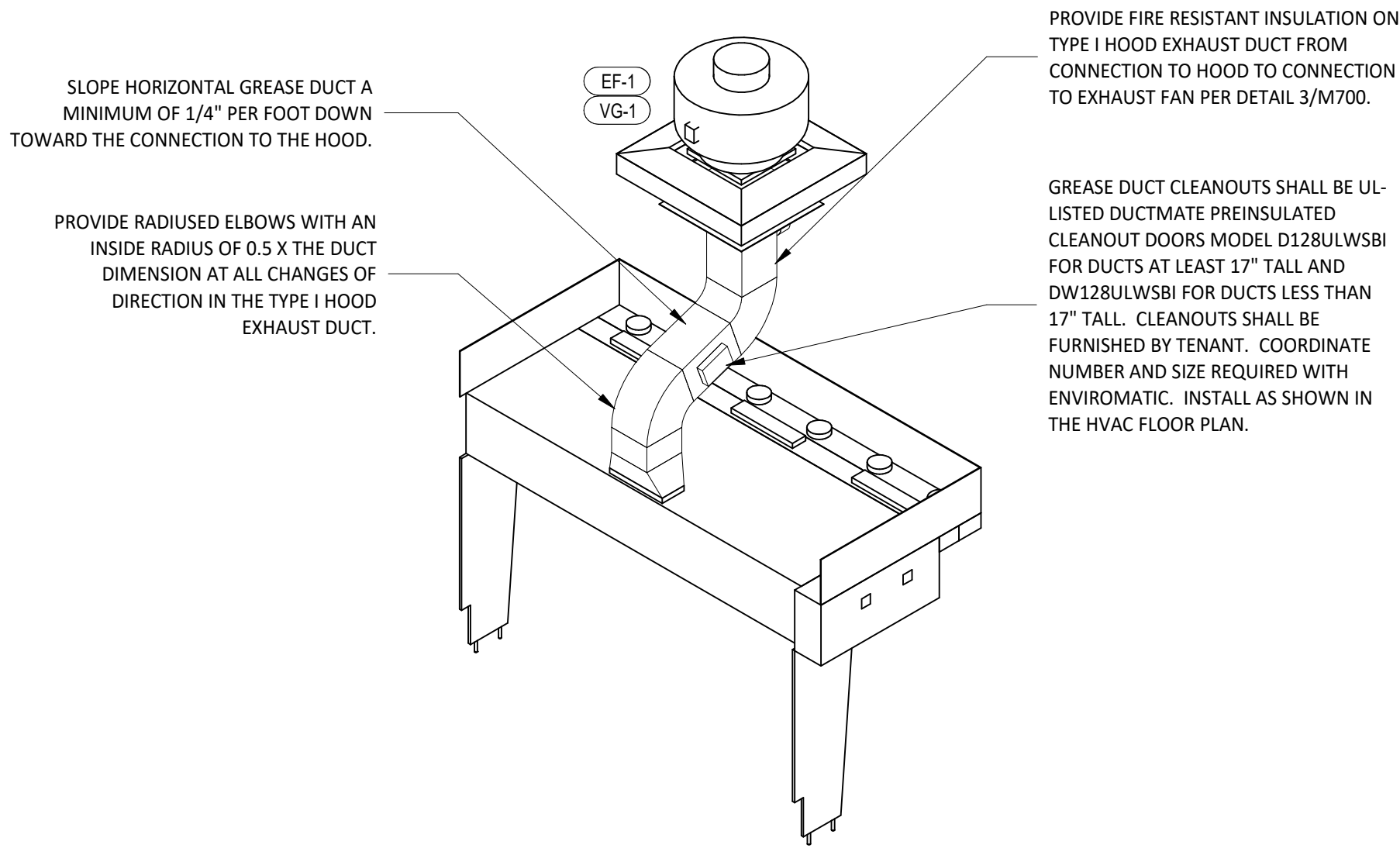


INSTALLATION LOCATION
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:
TRAME: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

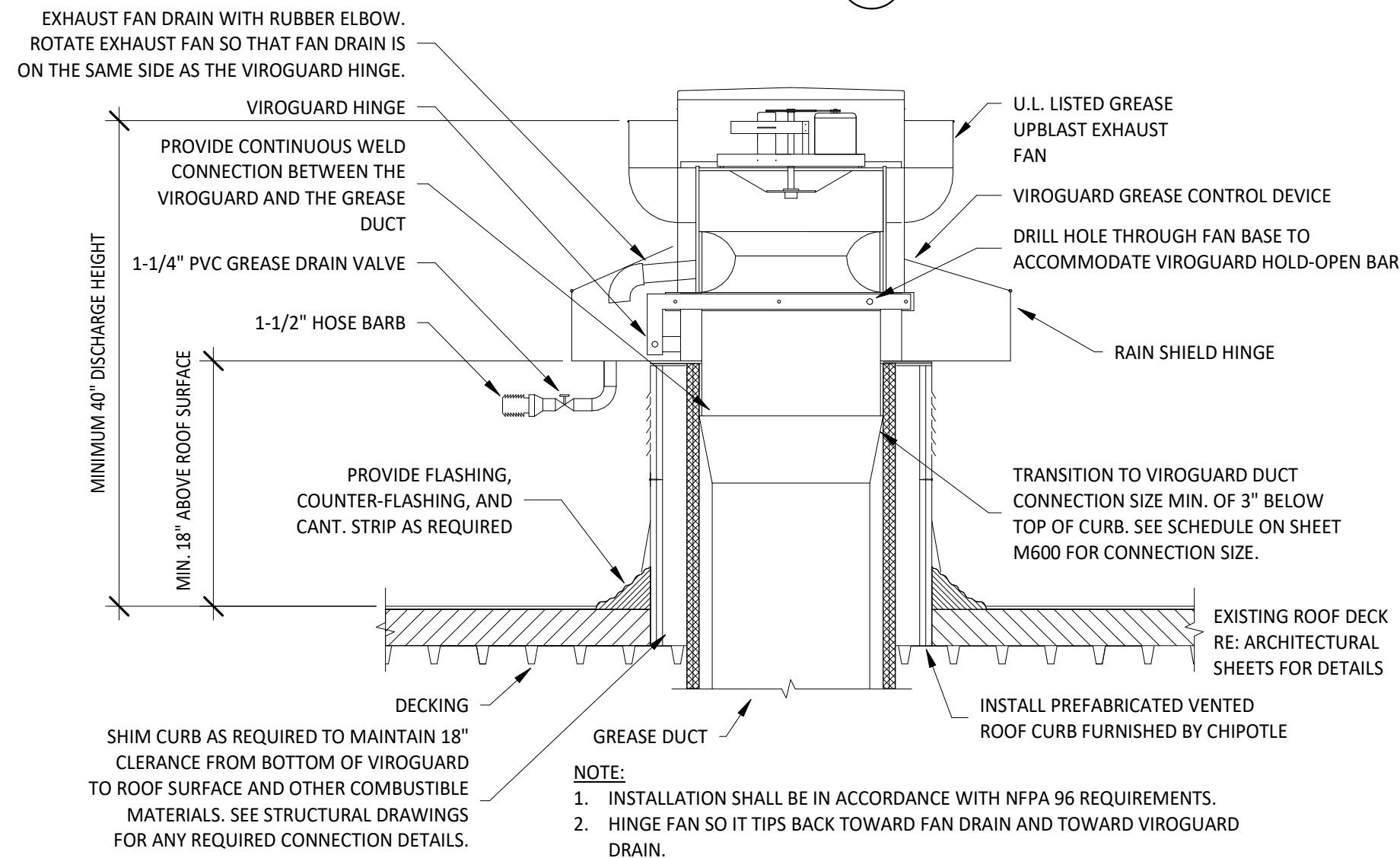
6
M700
UV AIR PURIFIER INSTALLATION
N.T.S.



3
M700
FIREMASTER DUCT WRAP - UL HNKT-G18
N.T.S.



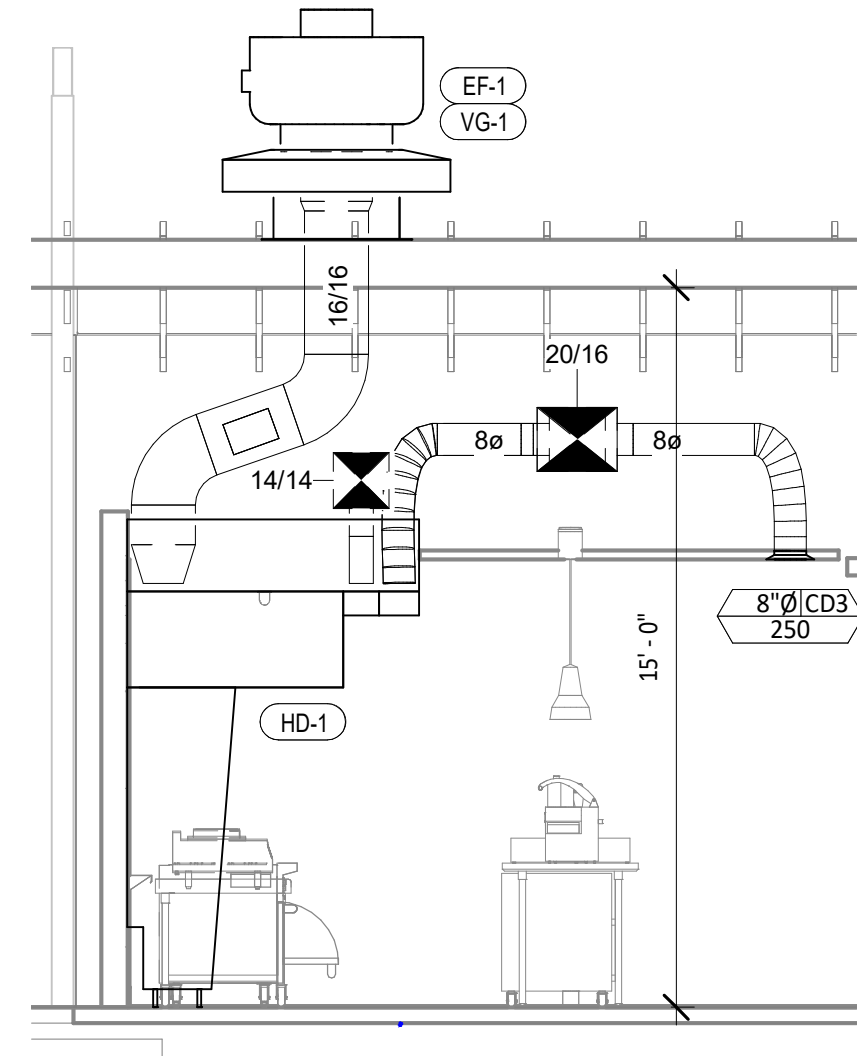
8
M700
HOOD EXHAUST ISOMETRIC
N.T.S.



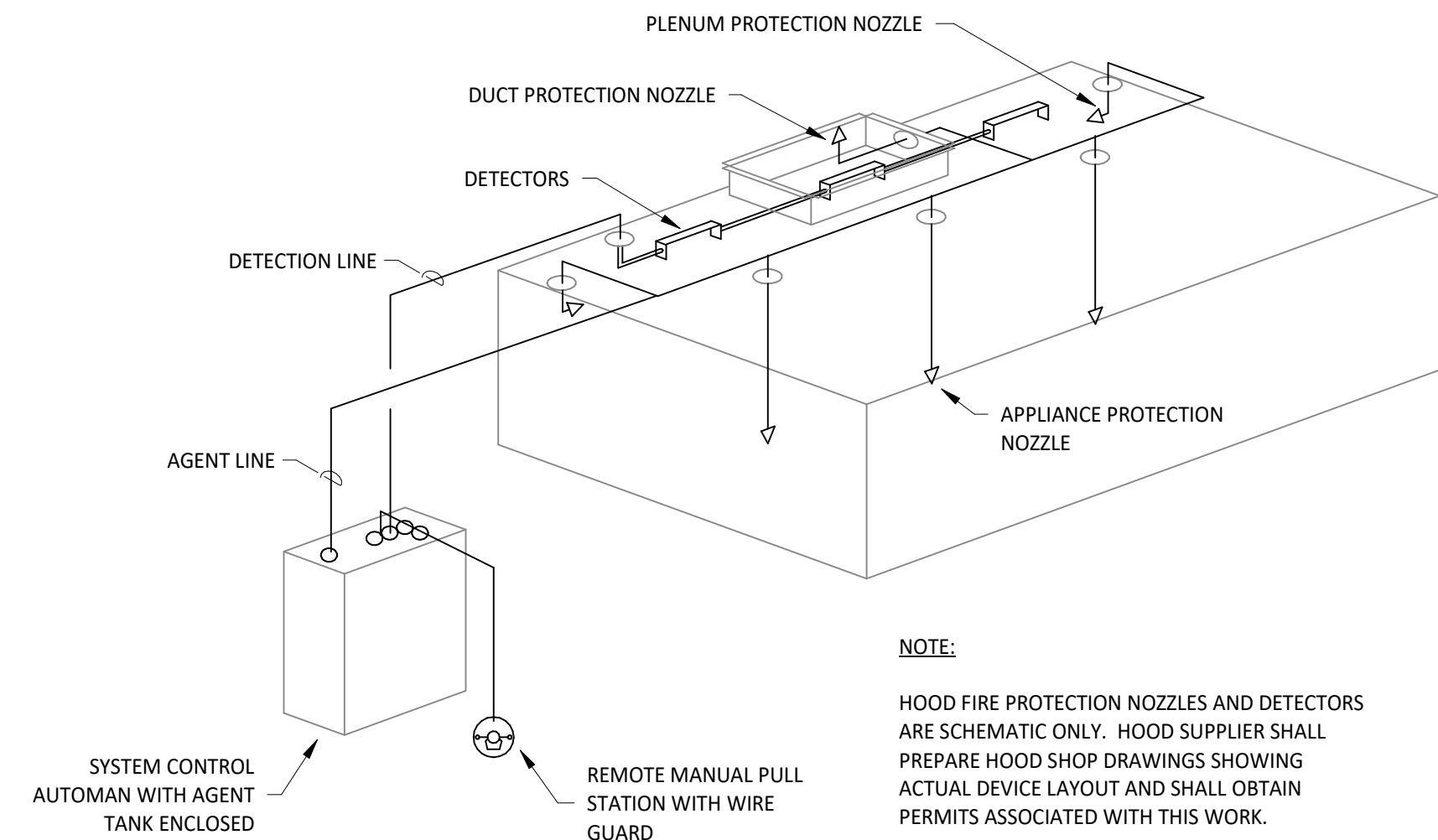
5
M700
GREASE EXHAUST FAN
N.T.S.

PROVIDE FIRE RESISTANT INSULATION ON TYPE I HOOD EXHAUST DUCT FROM CONNECTION TO HOOD TO CONNECTION TO EXHAUST FAN PER DETAIL 3/M700.

GREASE DUCT CLEANOUTS SHALL BE UL-LISTED DUCTMATE PREINSULATED CLEANOUT DOORS MODEL D128ULWSBI FOR DUCTS AT LEAST 17" TALL AND DW128ULWSBI FOR DUCTS LESS THAN 17" TALL. CLEANOUTS SHALL BE FURNISHED BY TENANT. COORDINATE NUMBER AND SIZE REQUIRED WITH ENVIROMATIC. INSTALL AS SHOWN IN THE HVAC FLOOR PLAN.

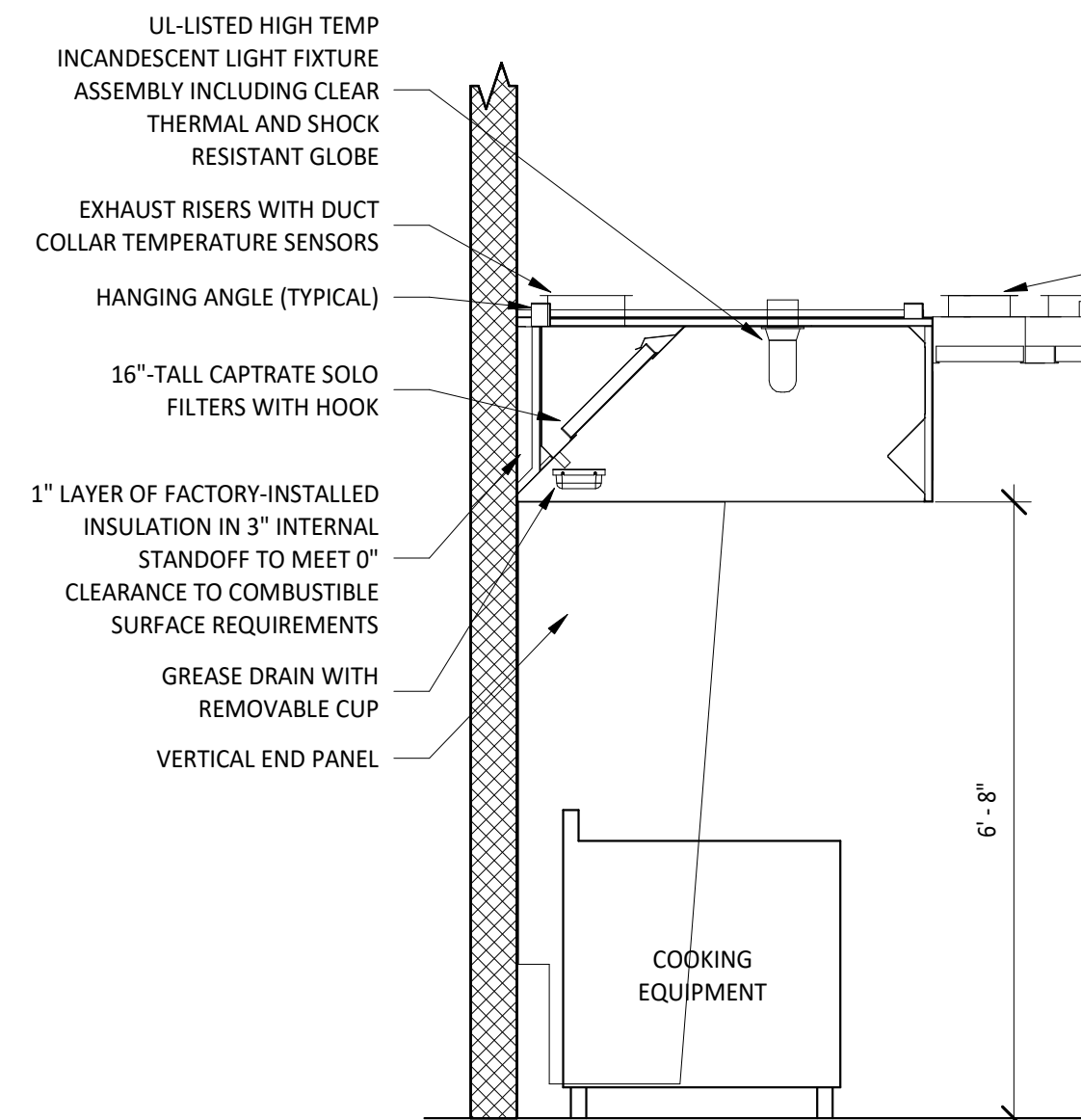


7
M700
DUCT SECTION AT HOOD
1/4" = 1'-0"



4
M700
FIRE SUPPRESSION SYSTEM SCHEMATIC
N.T.S.

NOTE:
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.



2
M700
HOOD SECTION VIEW
N.T.S.

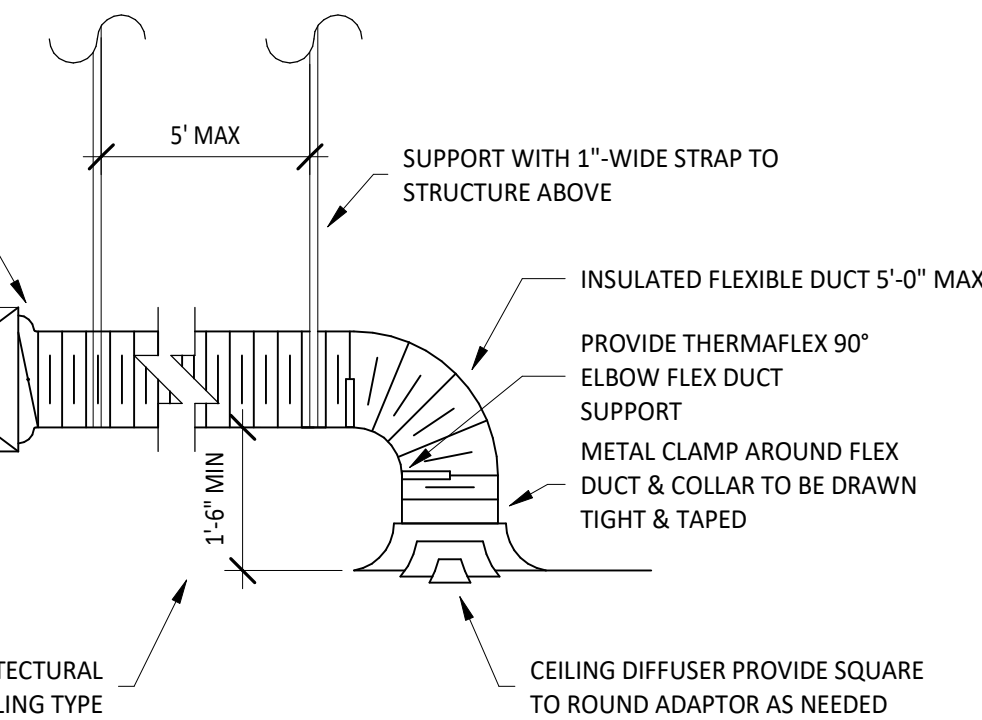
ENCLOSURE PANEL TO BE APPROXIMATELY 2" ABOVE FINISHED CEILING. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING HEIGHT.

MUA PLENUM SUPPLY RISERS WITH VOLUME DAMPERS
AC PLENUM SUPPLY RISERS WITH VOLUME DAMPERS

SPIN-IN COLLAR WITH MANUAL VOLUME DAMPER

SUPPLY DUCT

REFER TO ARCHITECTURAL DWGS. FOR CEILING TYPE



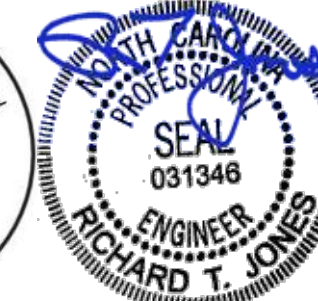
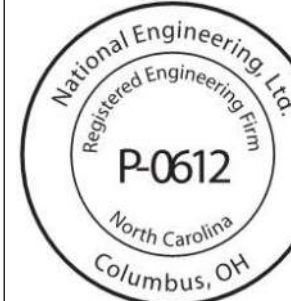
NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

1
M700
DIFFUSER CONNECTION
N.T.S.

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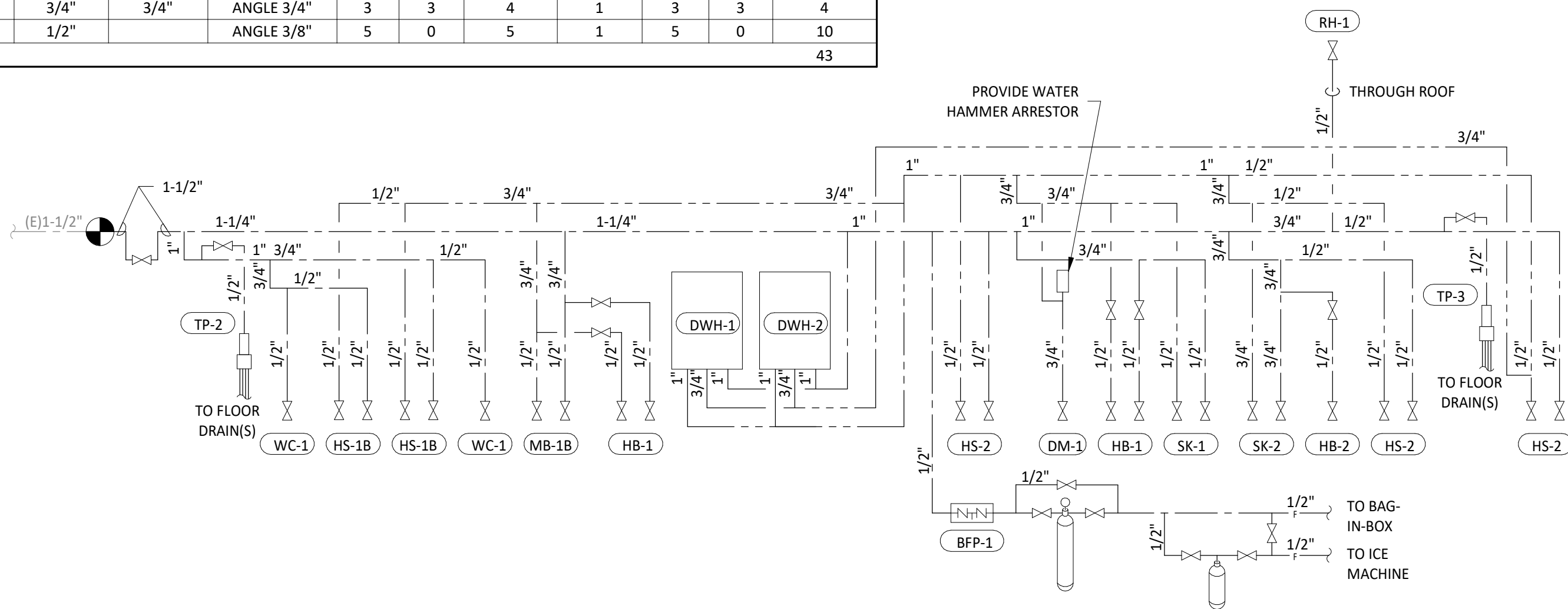
Contents:

HVAC DETAILS

M700

PLUMBING FIXTURE SUPPLY CONNECTIONS											
ROUGH-IN TYPE KEY											
ANGLE 3/8"		BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)									
ANGLE 1/2"		BRASS CRAFT R39X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)									
ANGLE 3/4"		EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET AND OUTLET)									
DIRECT		PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE									
HOSE 1/2"		ARROWHEAD BRASS WMSOF OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTLET)									
MIP		PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.									
TAG	FIXTURE	CONNECTION SIZES		ROUGH-IN TYPE	FIXTURE UNITS (EACH)			COUNT	FIXTURE UNITS (TOTAL)		
		CW	HW		CW	HW	TOTAL		CW	HW	TOTAL
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	1		1	1	1		1
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)		1/2"	HOSE 1/2"	0	1	1	1	0	1	1
ET-1	EXPANSION TANK	3/4"		DIRECT	0	0	0	1	0	0	0
HB-1	HOSE BIBB	1/2"	1/2"	MIP	1.5	1.5	2	1	1.5	1.5	4
HB-2	HOSE BIBB	1/2"		MIP	1.5	0	1.5	1	1.5	0	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	1	1.5	1.5	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	1	1.5	1.5	6
IM-1	ICE MAKER - BOH	1/2"		HOSE 1/2"	1	0	1	1	1	0	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1		1
MB-1B	MOP BASIN FAUCET	1/2"	1/2"	MIP	2.25	2.25	3	1	2.25	2.25	3
PF-1	POT FILLER	1/2"		MIP	1.5	0	1.5	1	1.5	0	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"		DIRECT	1	0	1	1	1	0	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	4	4	4	1	4	4	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	3	3	4
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	5	0	5	1	5	0	10
											43

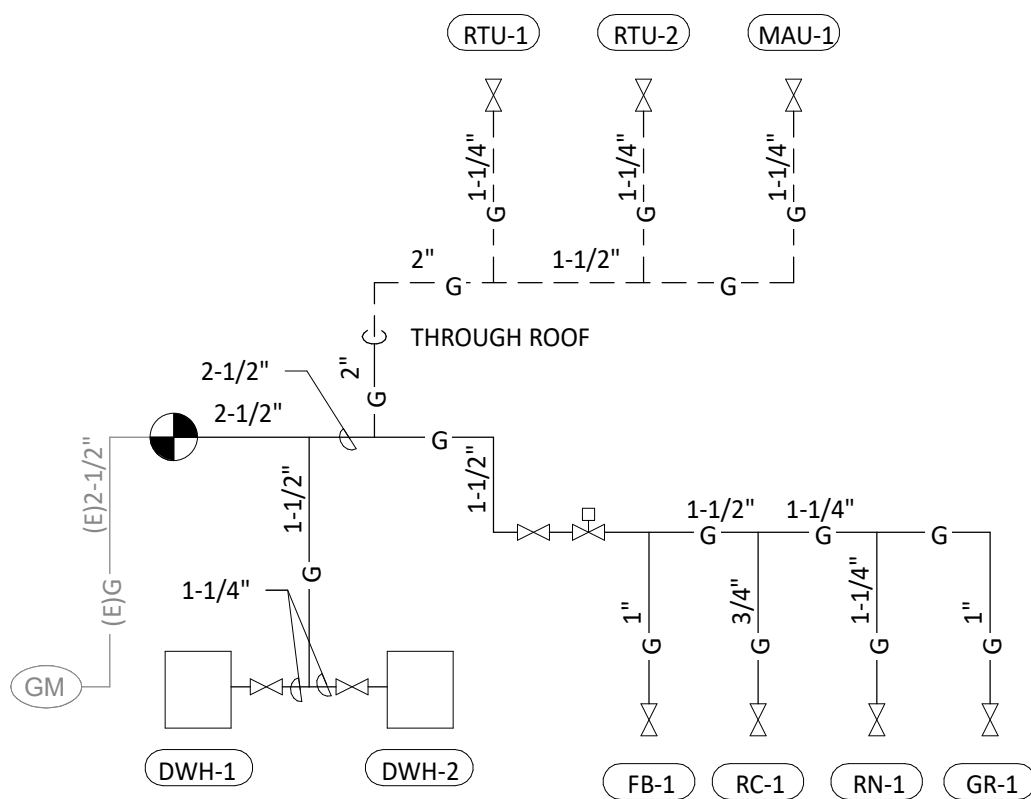
- PLUMBING SUPPLY PLAN NOTES**
- CONNECT TO THE EXISTING 1-1/2" DOMESTIC WATER SERVICE.
 - PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
 - PROVIDE WATER HEATERS DWH-1 & DWH-2 PER DETAIL 1/P700.
 - PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
 - PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 56" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
 - PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
 - CONNECT TO THE EXISTING GAS LINE.
 - PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.
 - SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
 - PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
 - REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
 - PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
 - PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
 - PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 14/P700.
 - PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.
 - CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
 - PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
 - PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
 - PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.
 - PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
 - PROVIDE AN ACCESSIBLE MAIN DOMESTIC WATER SHUTOFF VALVE ABOVE LAY-IN CEILING AS SHOWN. VALVE SHALL BE 12" ABOVE THE TOP OF THE LAY-IN CEILING. PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE CEILING GRID BELOW THE VALVE.
 - INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
 - PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN. MAKE FINAL CONNECTION TO PREP SINK FAUCET USING 3/4" BRAIDED STAINLESS STEEL WATER HEATER CONNECTOR HOSE.
 - PROVIDE 1/2" HOT WATER TO THE DISH MACHINE AT 66" AFF ABOVE LEFT SIDE OF DISH MACHINE, MAKING FINAL CONNECTION USING HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE.
 - PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - PROVIDE FILTERED DOMESTIC WATER ROUGH-INS FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
 - PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
 - INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
 - PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S).
 - REPLACE STOCK WATER CLOSET HANDLE WITH UNIVERSAL CABLE-OPERATED HANDLE (FLUSHMATE AP300503 OR AP300504 - FIELD VERIFY COMPATIBILITY WITH FLUSHMATE SYSTEM IN WATER CLOSET).



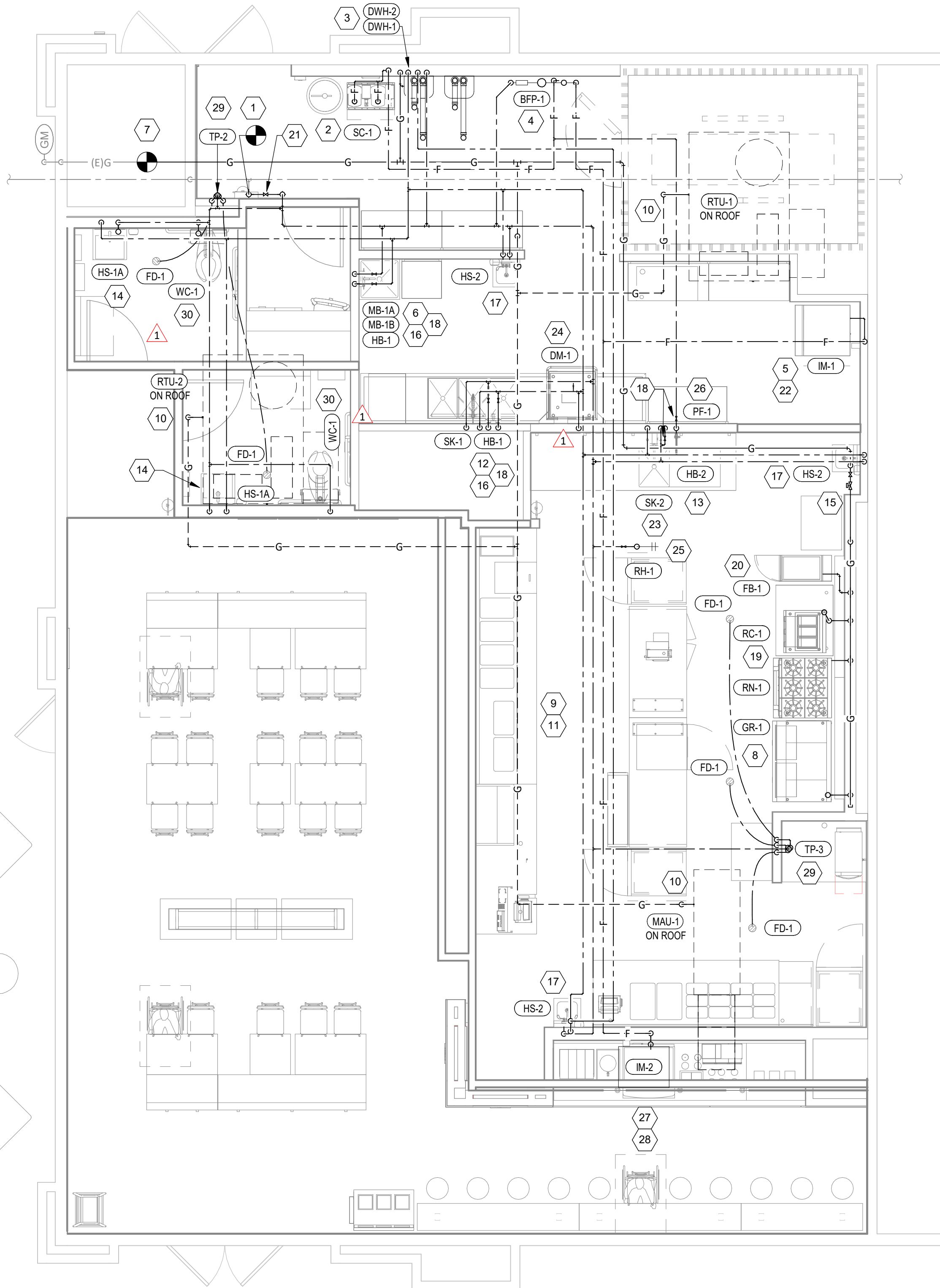
PLUMBING SUPPLY DIAGRAM

CONNECTED GAS LOAD			
FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
WATER HEATER	DWH-1	199	70
WATER HEATER	DWH-2	199	70
GAS FRYER	FB-1	90	110
GRIDDLE	GR-1	107	125
MAKEUP AIR UNIT	MAU-1	225	110
RICE COOKER	RC-1	33	110
RANGE	RN-1	192	115
KITCHEN ROOFTOP UNIT	RTU-1	250	85
DINING ROOFTOP UNIT	RTU-2	250	95
Grand total		1545	MAX: 125

- NOTES:
- PRESSURE REQUIRED AFTER METER: 7" W.C.
 - DISTANCES ARE APPROXIMATE



GAS DISTRIBUTION DIAGRAM



PLUMBING SUPPLY PLAN

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Issue Record:
05/28/2024 PERMIT SET
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09/23/2024 CONSTRUCTION SET

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1 07/08/2024 COUNTY COMMENTS

Drawn: DAA
Checked: DAA

Project No:
2401078

Contents:

PLUMBING PLAN
WATER & GAS

P100

PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW THE ICE MAKER AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL BEHIND ICE MAKER AT 8" AFF AND BE SECURED TO FLOOR UNDER ICE MAKER.

PROVIDE DRAIN CONNECTIONS TO THE THREE COMPONENT SINK PER DETAIL 2/P/700.

COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P/700.

PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.

PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.

PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P/700.

CONNECT TO EXISTING 4" GREASE WASTE LINE LEADING TO EXISTING 1000 GALLON INTERCEPTOR.

CONNECT TO EXISTING 4" SANITARY SEWER.

PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.

PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.

TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.

PROVIDE 3/4" PVC DRAIN PIPE FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.

DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACES COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.

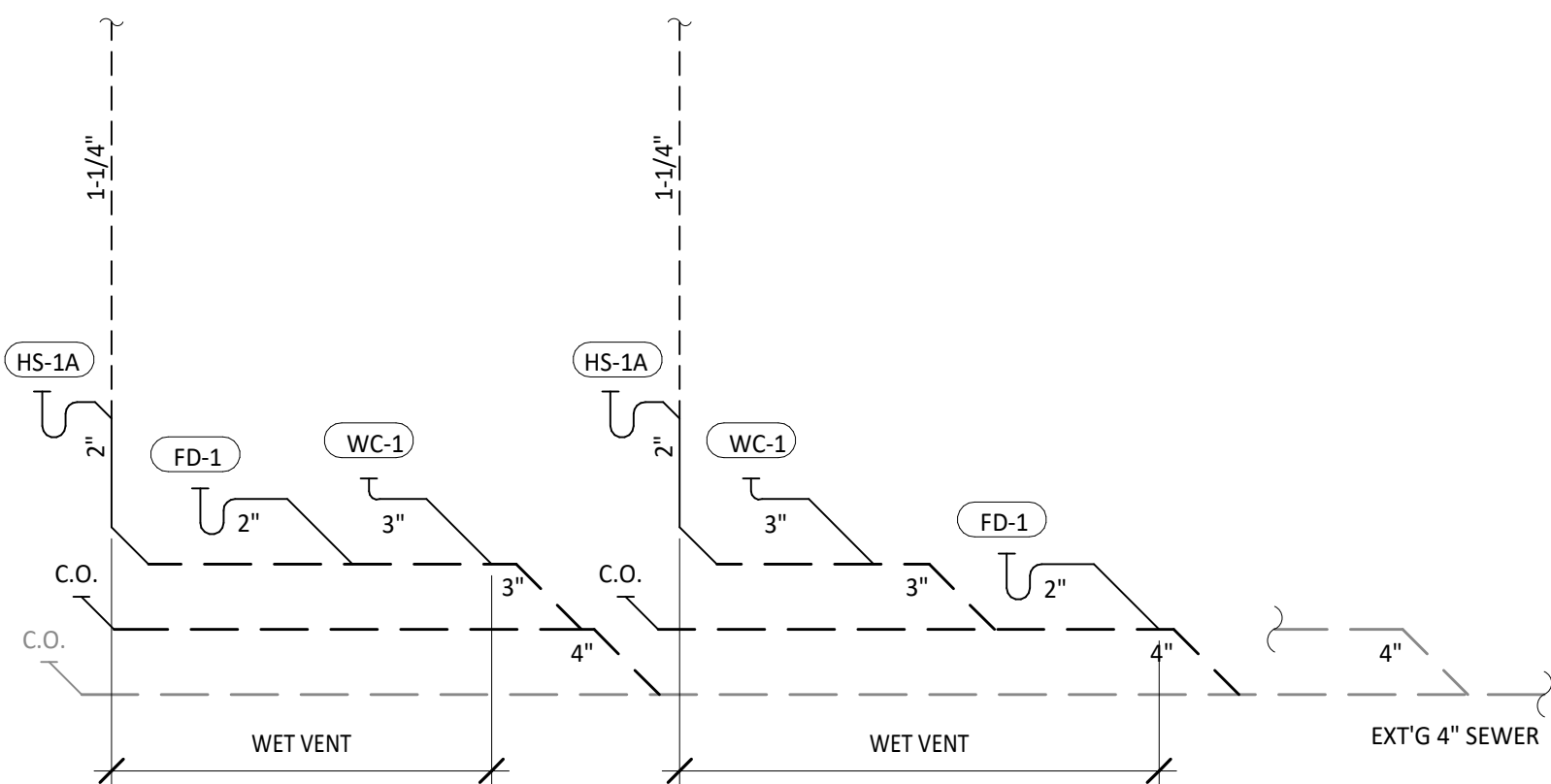
PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P/700.

PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR DRAIN CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P/700.

PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P/700.

INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.

PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P/700.



P110

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	DESCRIPTION	QUANTITY	CONNECTION SIZES			FIXTURE UNITS (EACH)				FIXTURE UNITS (TOTAL)				
								CW	HW	WASTE	CW	HW	TOTAL	SAN	CW	HW	TOTAL	SAN	
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-TZF	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			1		1		1	0	1	0	
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	FURNISHED BY KES	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1		1/2"	3/4"	0	1	1	0	0	1	1	0	
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0	0	0	0	0	0	0	0	
FCO-1	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	7			4"			0	0	0	0	0	0	
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	5			2"			0	2	0	0	0	10	
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	7			3"			0	5	0	0	0	35	
HB-1	HOSE BIBB	KES	GC	T&S	B-2345-01-KX	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	2	1/2"	1/2"		1.5	1.5	2	0	3	3	4	0	
HB-2	HOSE BIBB	KES	GC	T&S	B-0730	SILL FAUCET WITH 1/2" NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET.	1	1/2"			1.5	0	1.5	0	1.5	0	1.5	0	
HS-1A	RESTROOM HAND SINK	GC	GC	AMERICAN STANDARD	9024.001EC	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	2	0"	0"	2"	0	0	0	1	0	0	0	2	
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	FURNISHED BY KES	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME-OUT DELAY.	2	1/2"	1/2"	0"	1.5	1.5	2	0	3	3	4	0	
HS-2	KITCHEN HAND SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	3	1/2"	1/2"	2"	1.5	1.5	2	1	4.5	4.5	6	3	
IM-1	ICE MAKER - BOH	KES	GC	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)	1	1/2"			1	0	1	0	1	0	1	0	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MAKER (INTEGRAL AIR COOLED)	1	1/2"			1		1		1	0	1	0	
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	1	0"	0"	3"	0	0	0	3	0	0	0	3	
MB-1B	MOP BASIN FAUCET	KES	GC	FURNISHED BY KES	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACE.	1	1/2"	1/2"	0"	2.25	2.25	3	0	2.25	2.25	3	0	
PF-1	POT FILLER	KES	GC	FURNISHED BY KES	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND 3/8" NPT FEMALE INLET	1	1/2"			1.5	0	1.5		1.5	0	1.5	0	
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1	3/4"		0	1	0	1		1	0	1	0	
SK-1	THREE COMPARTMENT SINK	KES	GC	FURNISHED BY KES	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	4	4	4	5	4	4	4	5	
SK-2	PREP SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0	3	3	4	0	
TD-1	TRENCH DRAIN	GC	GC	ZURN	2886 8601 8602	6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL 12/P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1			2"	0	0	0	2	0	0	0	2	
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P2-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1	1/2"			0		0		0	0	0	0	
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1	1/2"			0		0		0	0	0	0	
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLIGHT 1.0 GPF, 17-1/8"-HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD -RA TO THE MODEL # FOR RIGHT HAND TRIP LEVER).	2	1/2"		3"	5	0	5	4	10	0	10	8	
							45								36.75	20.75		43	68

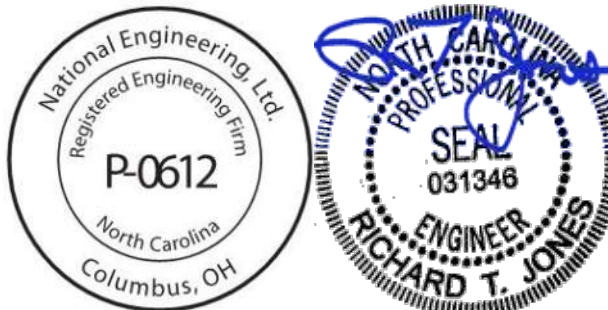
WATER HEATER SCHEDULE - INSTANTANEOUS

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	INPUT MBH	DELIVERY	NOTES
DWH-1	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVIENT	NPE-240A2	199	354 GPH @ 65" RISE	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIENT AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIENT.COM TO LOCATE AUTHORIZED DISTRIBUTOR).
DWH-2	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVIENT	NPE-240A2	199	354 GPH @ 65" RISE	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIENT AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIENT.COM TO LOCATE AUTHORIZED DISTRIBUTOR).

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[illegible]

Drawn:	Checked:
ACA	DAA

Project No.

2401078

Contents:

PLUMBING SCHEDULES

P600

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE

PART 1 - GENERAL

1.1 DEFINITIONS

- A. GFCI: Ground fault current interrupter.
B. RMS: Root Mean Square
C. SPDT: Single Pole, Double Throw

1.2 USE CHARGES

- A. General: Cost or use charges for temporary facilities are not chargeable to Tenant, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:
- Tenant's construction forces.
 - Occupants of Project.
 - Architect.
 - Engineer.
 - Testing agencies.
 - Personnel of authorities having jurisdiction.
- B. Permanent Service: Coordinate with building Tenant and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.

1.3 NOTIFICATION

- A. Coordinate with Tenant to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.

1.4 QUALITY ASSURANCE

- A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
- Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
 - Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
 - Comply with OSHA standards and regulations.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
- B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
- C. Main panelboard with disconnect.
- D. Temporary lighting.
- E. 120 volt receptacles with overcurrent protection.
- F. Enclosures: NEMA AB 1 and NEMA KS 1 to meet environmental conditons of installed location.
- Outdoor Locations: NEMA 250, Type 3R.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
- Install power distribution wiring overhead and rise vertically where least exposed to damage.
- B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
- Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
 - Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
 - Provide metal conduit enclosures or boxes for wiring devices.
 - Provide 4-gang outlets, spaced so 1 1/2 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
- C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
- Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
 - Provide one 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.
 - Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.

END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.

1.2 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
- Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- Comply with UL 467.

PART 2 - PRODUCTS

2.1 GROUNDING CONDUCTORS

- A. For insulated conductors, comply with Division 16 Section "Wiring Methods."
- B. Material: Copper.
- C. Equipment Grounding Conductors: Insulated with green-colored insulation.
- D. Grounding Electrode Conductors: Stranded cable.
- E. Bare Copper Conductors: Comply with the following:
- Solid Conductors: ASTM B 3.
 - Assembly of Stranded Conductors: ASTM B 8.

2.2 CONNECTOR PRODUCTS

- A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Use only copper conductors.
- B. In raceways, use insulated equipment grounding conductors.
- C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
- D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
- Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
 - At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.

3.2 EQUIPMENT GROUNDING CONDUCTORS

- A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.

3.3 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

3.4 CONNECTIONS

- A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
- B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
- C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
- D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.

END OF SECTION 16060

SECTION 16100 - WIRING METHODS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.

PART 2 - PRODUCTS

2.1 WIRES AND CABLES

- A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.

2.2 RACEWAYS

- A. Wireways: Screwed cover type, with manufacturers standard finish.
- B. Outlet and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior damp locations.
- C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.

2.3 ENCLOSURES

- A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
- B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wires and cables according to the NECA's "Standard of Installation."
- B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
- C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
- D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
- E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate metal conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
- F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
- G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
- H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
- I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
- J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
- K. Stub-up Connections for Equipment: Extend conductors to equipment with rigid metal conduit; flexible metal conduit may be used 3 inches above the floor.
- L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.

3.2 IDENTIFICATION MATERIALS AND DEVICES

- A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
- B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
- C. Identify raceways and cables with color banding as follows:
- Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
 - Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
 - Colors: As follows:
 - Telecommunication System: Green and yellow.
- D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:

	120/208V	277/480V
1. Phase A:	Black	Brown
2. Phase B:	Red	Orange
3. Phase C:	Blue	Yellow
4. Neutral:	White	Gray
5. Ground:	Green	Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.
- B. Comply with NEMA WD 1.
- C. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 DEVICES

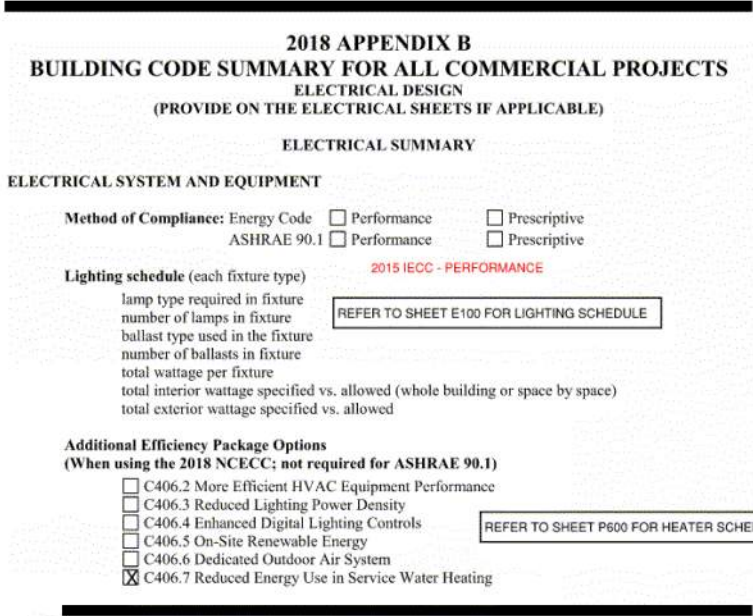
- A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- B. Color: Per Material Schedule on sheet E010.
- C. Receptacles: Heavy-Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
- D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
- E. Isolated-Ground Receptacles: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.
- F. Snap Switches: Heavy-duty, quiet type.
- G. Wall Plate: Per Material Schedule on sheet E010.
- H. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install devices and assemblies plumb and secure.
- B. Mount devices flush with long dimension vertical unless otherwise indicated.
- C. Protect devices and assemblies during painting.
- D. Install wall plates when painting is complete and paint is cured.

END OF SECTION 16140



RICHARD T. JONES - ELECTRICAL ENGINEER OF RECORD

SECTION 16442 - PANELBOARDS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.
- B. Comply with NFPA 70.
- C. Comply with NEMA PB 1.

PART 2 - PRODUCTS

2.1 PANELBOARDS AND LOAD CENTERS

- A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
- Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
 - Square D Co.
 - Eaton Corp.; Cutler-Hammer Products.
 - General Electric Co.; Electrical Distribution & Control Div.
 - Siemens Energy & Automation.
 - Recessed, NEMA PB 1, Type 1.
 - Load Center Capacity: as shown on drawings.
 - Front: Secured to box with concealed trim clamps.
 - Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
 - Bus: Hard drawn copper of 98 percent conductivity.
 - Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
 - Contactors: NEMA ICS 2, Class A combination contactors.
- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. Install panelboards and accessory items according to NEMA PB 1.1. Provide typed, permanently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
- B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
- C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
- D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
- E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
- F. Perform visual and mechanical inspections and electrical tests stated in NETA ATS.

END OF SECTION 16442

SECTION 16500 - LIGHTING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.
- B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted in ceiling space and on ceiling.
- PART 2 - PRODUCTS
- 2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL
- A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to prevent warping and sagging.
- B. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.
- C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Set units level, plumb, and square with ceiling and walls, and secure.
- B. Support for Recessed and Semirecessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
- C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
- D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.

END OF SECTION 16500

ELECTRICAL SYMBOLS

	CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
	CONDUIT CONCEALED BELOW THE SLAB
	HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
	PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	DISCONNECT SWITCH: X = SWITCH RATING Y = FUSE SIZE (NF = NON-FUSED) Z = NUMBER OF POLES
	JUNCTION BOX
	ELECTRIC PANELBOARD
	GENERAL PURPOSE 1-POLE SWITCH
	MANUAL STARTER WITH PILOT LIGHT
	NEMA 5-20R 1-PLEX RECEPTACLE
	NEMA 5-20R DUPLEX RECEPTACLE
	NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
	NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL20951GTRGRY (GRAY)
	OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
	JUNCTION BOX FOR PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
	DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
	JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.

SECURITY SYSTEM KEYPAD: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION.

SECURITY SYSTEM DOOR CONTACT: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION.

ELECTRICAL MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	FIELD-MADE CORD (EXPOSED INDOOR LOCATIONS)	TYPE SO OR SJO SERVICE CORD WITH CU CONDUCTORS
CONDUITS	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IG OR IG/GFI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
WIRING DEVICES	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON HOT ROLLED STEEL, RICHLITE, OR OTHER BLACK FINISHES	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

ELECTRICAL GENERAL NOTES

- A. GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
- B. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- C. WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
- D. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
- E. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
- F. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
- G. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
- H. PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
- I. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- J. DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.
- K. INSTALL LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES.
- L. IF THERE ARE RATED ASSEMBLIES WITHIN CHIPOTLE'S SPACE COORDINATE ANY REQUIRED CONDUIT RUNS WITH SECURITY VENDOR.

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
(E)	EXISTING
EXT'G	EXISTING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
WP	WEATHERPROOF
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TOC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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Project No.

2401078

Contents:

ELECTRICAL SPECIFICATIONS

E010

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE				N/A	SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING ROOM DL	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	42	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUTY	ARP INTENC08 NLT 8FCR MVOLT HLK FM DTC CPTL1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
\$C	WALL-MOUNTED OVERRIDE SWITCH (4 CHANNEL)	1	TLS	GC	ACUTY	nPODMA 4P WH	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
\$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
\$OC	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

LIGHTING FIXTURE SCHEDULE

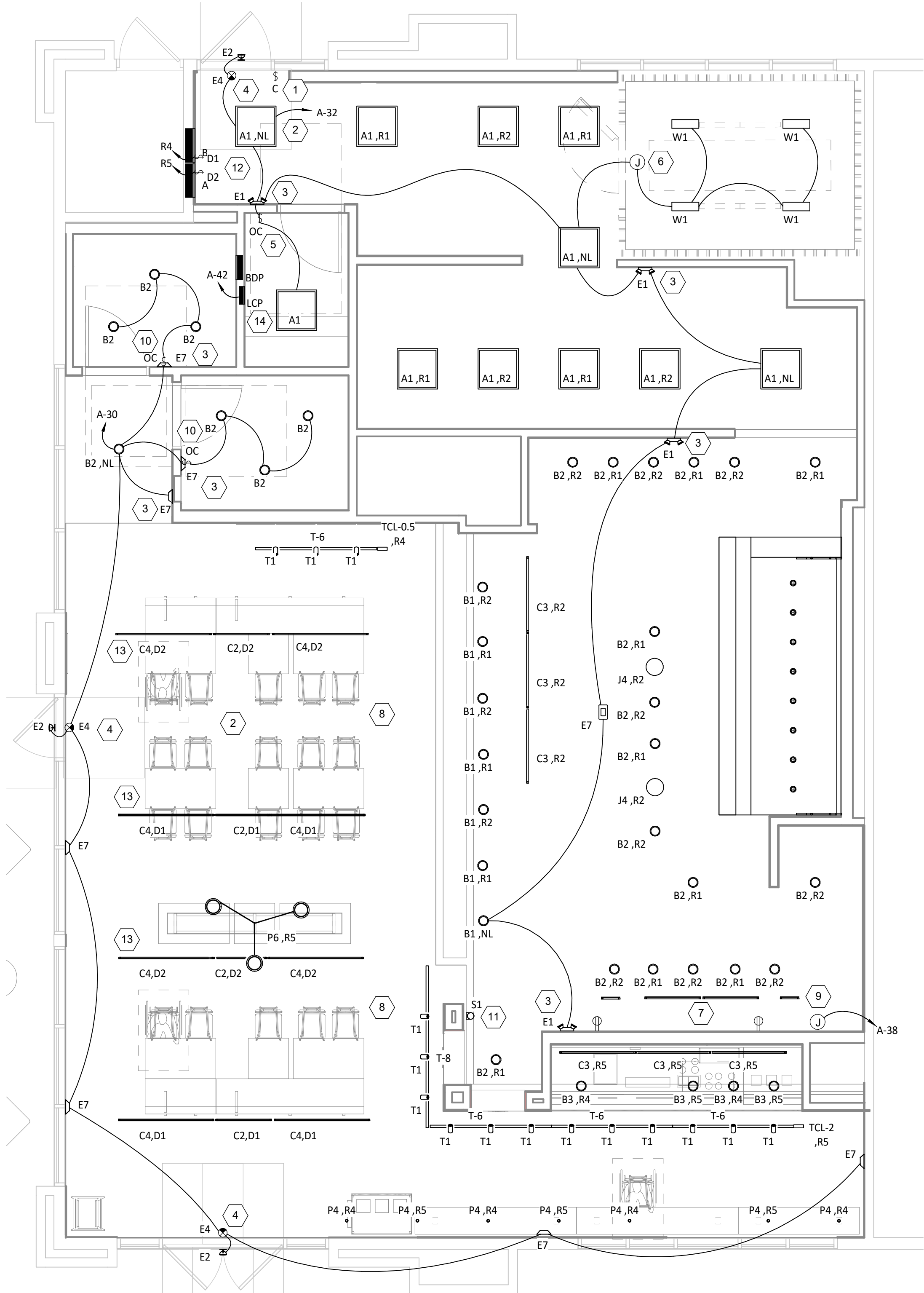
TAG	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	11	2x2 LED LENSED TROFFER	LAY-IN	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	(1) 3000K LED	120	30	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	7	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL with NTM-57W/M1 Trim	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27K-2SD LED (25"-2700K) W/ GU 24 BASE	120	17	
B2	25	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-6S130WW LED TRIM	INTEGRAL 3000K LED	120	17	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-6S127BB LED TRIM	INTEGRAL 3000K LED	120	12	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C2	6	LOW PROFILE LED - 3 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/34/WWW	INTEGRAL 3000K LED	120	12	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	6	LOW PROFILE LED - 4 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/46/WWW	INTEGRAL 3000K LED	120	15	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C4	8	LOW PROFILE LED - 5 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/59/WWW	INTEGRAL 3000K LED	120	18	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	4	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXITRONIX	LED-90	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	TLS	GC	EXITRONIX	MLED1-B-WP	(1) SPECIAL LED	4	1	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	3	WHITE EXIT SIGN WITH EMERGENCY LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXITRONIX	CLED-U-WH	(1) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	8	EMERGENCY LIGHT	VARIOUS	TLS	GC	DUAL-LITE	EV2	(2) 1W INTEGRAL LED	120	1	90 MINUTE BATTERY BACKUP
H1	8	HOOD LIGHT	SURFACE	THS/ TLS	THS	VAPOR PROOF LIGHT FIXTURE FURNISHED WITH HOOD		(1) TCP L16A19N1527K	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	SURFACE	TLS	GC	BARNLIGHT	BLE-C-BRN-100-ASH-SBK-10 0-NA-GU24	GREEN CREATIVE 9A19DIM/927/GU24/R	120	9	WITH BLACK LAMP SHADE, BLACK CORD, AND OAK LAMP HOLDER
P4	7	PENDANT	SURFACE	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/10W LBL	TCP LED8P20D27KNFLB	120	8	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	1	DECORATIVE DINING ROOM PENDANT	SURFACE	TLS	GC	BARN LIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	120	30	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
S1	1	DRIVE-UP PICK-UP WINDOW CHIME/STROBE	WALL	TLS	GC	FEDERAL SIGNAL	SLM500B W/ SLMBW-012-024	INTEGRAL	16	0	SET SWITCH A TO "CHIME 1 SINGLE" (11011) AND SWITCH B TO "CHIME 2 SINGLE" (00111)
T1	15	TRACK HEAD	TRACK	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	120	10	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	4	TRACK (6 FEET)	SURFACE	TLS	GC	JUNO	T 6FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
T-8	1	TRACK (8 FEET)	SURFACE	TLS	GC	JUNO	T 8FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
TCL-0.5	1	CURRENT LIMITER (60W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED
TCL-2	2	CURRENT LIMITER (240W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED
W1	4	WIC LED FIXTURE	SURFACE	WCS	GC	FURNISHED WITH WIC	FURNISHED WITH WIC	INTEGRAL LED	120	29	WET-RATED COOLER FIXTURE

LIGHTING FIXTURE SCHEDULE NOTES

- A. FLUORESCENT LAMPS NOT INCLUDED WITH THE FIXTURE AREA TO BE MANUFACTURED BY SYLVANIA UNLESS OTHERWISE NOTED. PHILIPS FLUORESCENT LAMPS WILL BE AN ACCEPTABLE ALTERNATE.
- B. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
- C. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

1. INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710
2. FOR UNCIRCUITED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
3. WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE
4. VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
5. PROVIDE DOUBLE-POLE SINGLE-THROW LIGHT SWITCH IN OFFICE FOR CONTROL OF OFFICE LIGHT AND RESTROOM EXHAUST FAN.
6. INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
7. PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET E700 FOR RECEPTACLE LOCATIONS, HEIGHTS, AND CIRCUITING. INSTALL RECEPTACLES IN A HORIZONTAL ORIENTATION.
8. PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
9. CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 6/E710.
10. INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42" AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
11. INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
12. INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
13. CONNECT DINING ROOM (RELAY CIRCUITS R4, R5, AND R6) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
14. INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.
16. INSTALL LED DRIVERS FURNISHED WITH THE X9 LED STRIP LIGHTS ON WALL 6" ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. PROVIDE LOW VOLTAGE WIRING FROM LED DRIVER TO THE X9 LIGHT FIXTURES AS SHOWN.
17. INSTALL E2 REMOTE EMERGENCY LIGHT TO BOTTOM OF CANOPY. CONCEAL LOW VOLTAGE WIRING FROM EXIT SIGN TO REMOTE EMERGENCY LIGHT.



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

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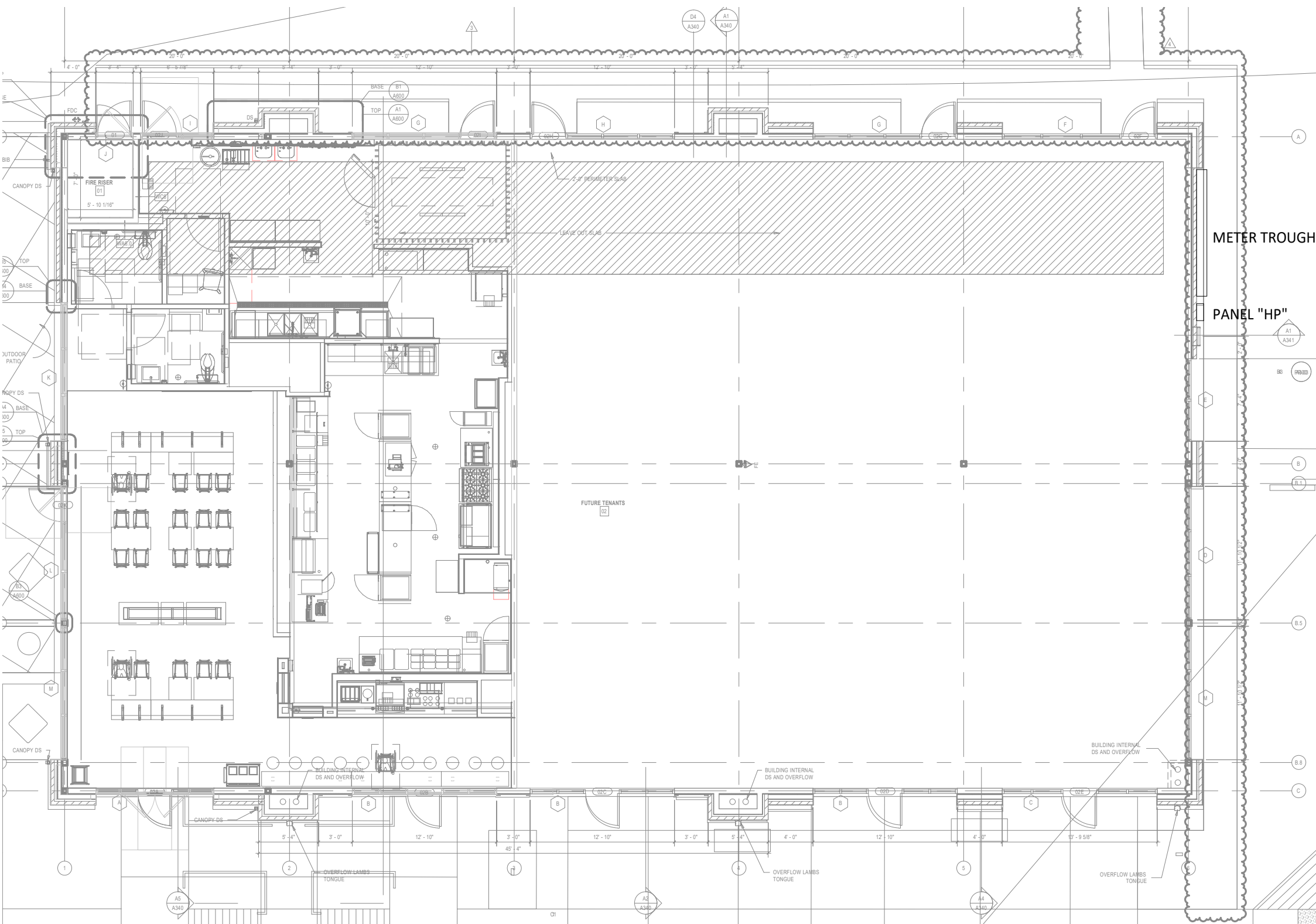
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ELECTRICAL
LIGHTING PLAN

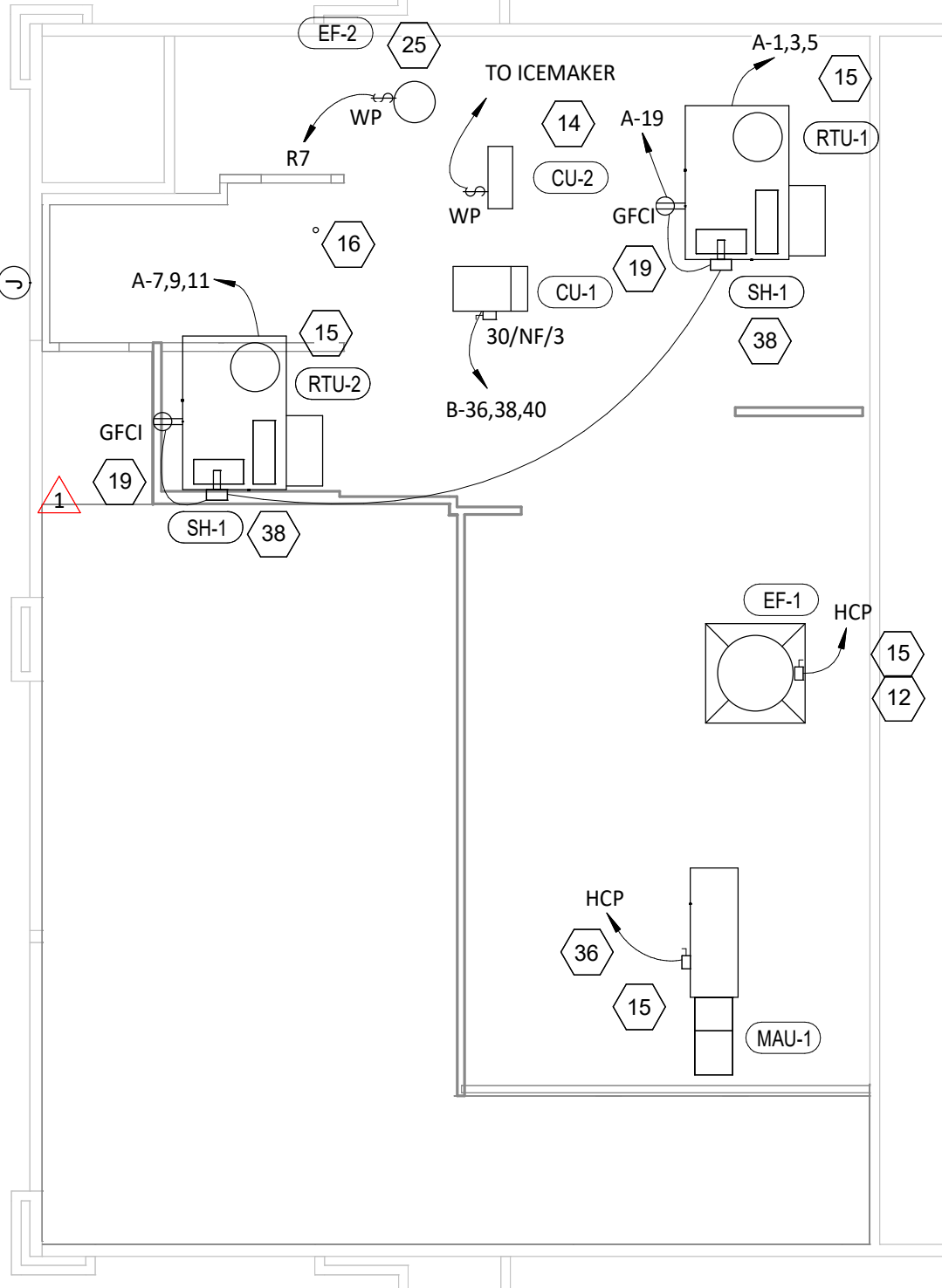
E100

ELECTRICAL POWER PLAN NOTES

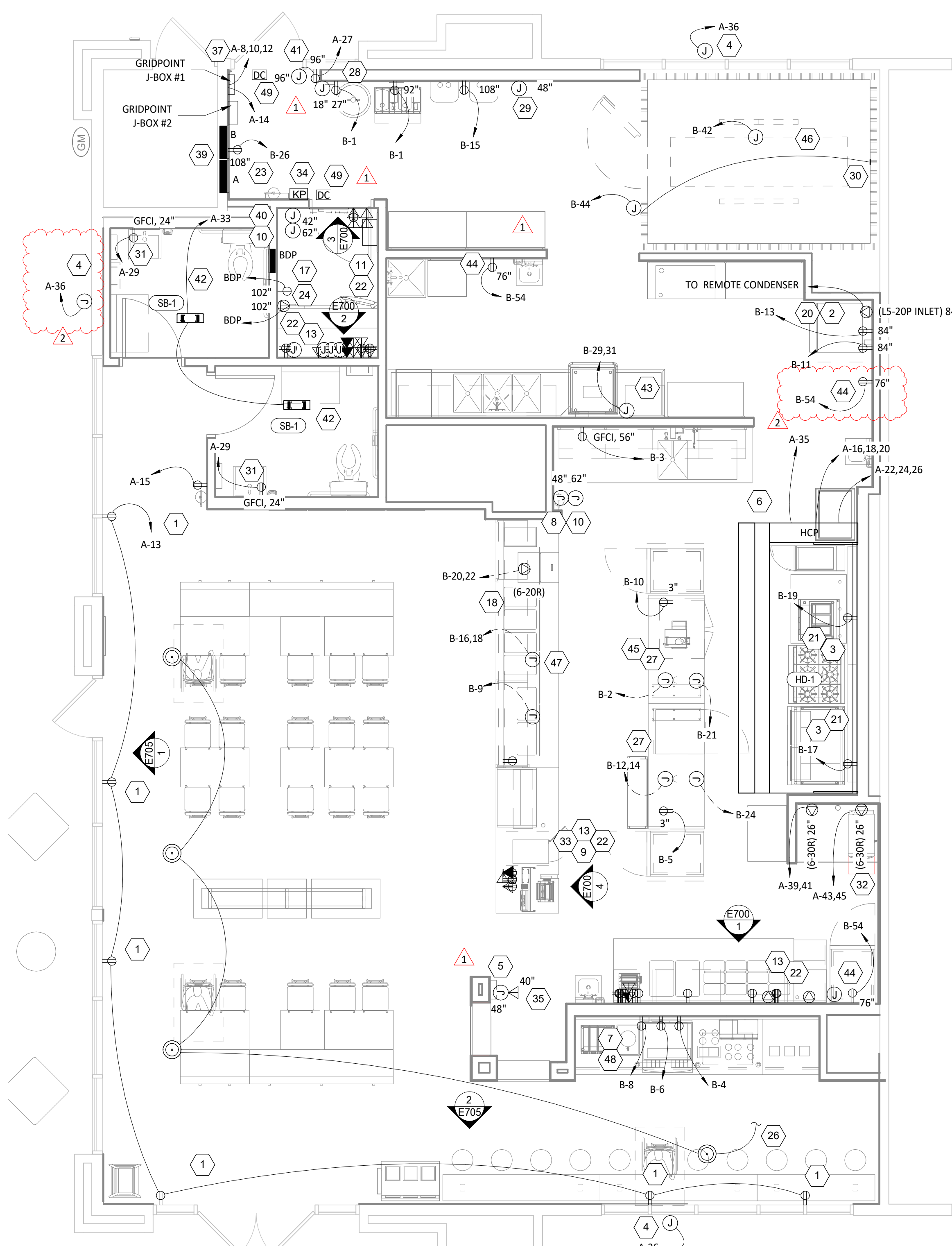
- SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E700.
- ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
- CONNECT RECEPTACLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTEGRAL TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.
- JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710.
- PROVIDE A SINGLE GANG VERTICAL JUNCTION BOX FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.
- HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".
- PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
- COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.
- PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED. LAUNCHPORT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.
- PROVIDE (2) EMPTY 2" CONDUITS WITH PULL STRINGS FROM THE BASE BUILDING'S TELEPHONE AND DATA SERVICE ENTRANCE LOCATIONS TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.
- PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.
- AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.
- PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.
- UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
- PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD EVEN WITH TOP OF PARAPET FOR FUTURE CELL BOOSTER. SECURE CONDUIT TO STRUCTURE TO SUPPORT FUTURE ANTENNA INSTALLATION. PROVIDE 1/4" X 2" X 10" 16 HOLE GROUNDING BUSBAR (BURNDY BBB14210A OR EQUAL) MOUNTED TO CONDUIT ABOVE ROOF FOR FUTURE CONNECTION OF LIGHTNING ARRESTORS. PROVIDE #2 CU GROUND FROM BUSBAR TO MAIN ELECTRODE GROUNDING CONDUCTOR.
- INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E710.
- ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.
- ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
- PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
- LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".
- LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
- PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.
- CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).
- INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.
- PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN THREE J-BOXES INTEGRAL TO PREP TABLES (FOR UNDERCOUNTER REFRIGERATOR, HOT HOLDING CABINET, AND GENERAL RECEPTACLE).
- PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.
- PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.
- INSTALL WALK-IN-COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.
- PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 14/P700.
- PROVIDE 6-30R SINGLE RECEPTACLE FOR TURBO CHEF. PROVIDE WITH GROUND PLUG AT TOP OF RECEPTACLE.
- PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.



3
E110
POWER SITE PLAN
1" = 10'-0"



2
E110
POWER ROOF PLAN
1/8" = 1'-0"

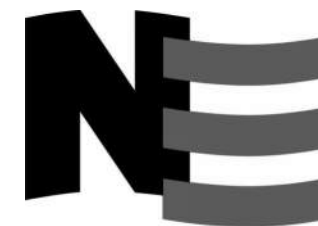


1
E110
POWER FLOOR PLAN
1/4" = 1'-0"

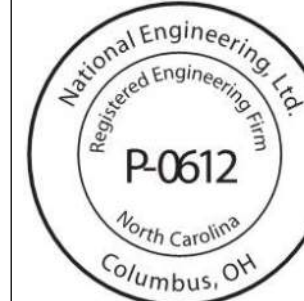
ELECTRICAL POWER PLAN NOTES

- PROVIDE A RECESSED J-BOX AT 56" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 1/2" CONDUIT TO ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.
- PROVIDE HORIZONTAL SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.
- PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4" C. AND (4) #12, #12 N., #12 G. IN 1" C. FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- LABEL RECEPTACLE "UV INSECT TRAP".
- INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.
- PROVIDE (2) 10"x10"x4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.
- PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
- PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE RECEPTACLE FOR 2-DOOR AND/OR 1-DOOR REFRIGERATOR WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.
- PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.
- SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
- IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
- PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
- PROVIDE A RECESSED SINGLE-GANG J-BOX ABOVE DOOR AND 3" IN FROM LATCH SIDE OF THE DOOR FOR THE INSTALLATION OF THE SECURITY SYSTEM DOOR CONTACT WITH A 1/2" CONDUIT ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.

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2 09/23/2024	2024 DB UPDATES

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Checked: DAA

Project No.
2401078

Contents:

ELECTRICAL POWER
PLAN

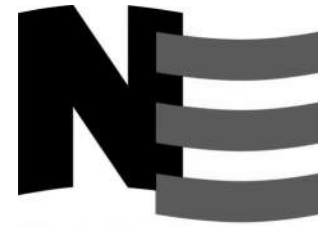
E110

Panel Name: BDP		Volts: 120			
Mounting: Recessed		Phases: 1		Mains: LUGS	
Enclosure: Type 1		Wires: 2		Amperage: 20 A	
CKT	Circuit Description		Trip	Poles	Load
1	POS		15 A	1	0.2 kVA
2	DML - POS		15 A	1	0.2 kVA
3	DML - ORDERING SYSTEM		15 A	1	0.7 kVA
4	OFFICE - SECURITY SYSTEM		15 A	1	0.2 kVA
5	OFFICE - COMPUTER		15 A	1	0.4 kVA
6	OFFICE - DVR/ISP		15 A	1	0.4 kVA
				Total Load:	2.0 kVA
				Total Amps:	17 A

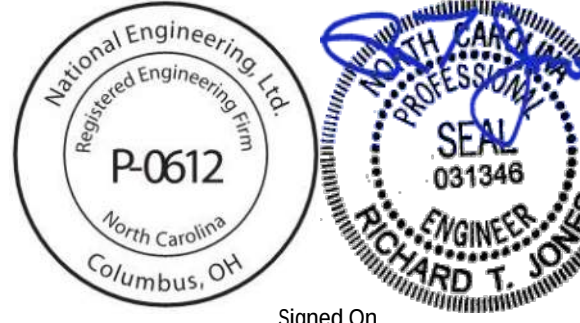
VOLTS: 208/120V Wye PHASES: 3 WIRES: 4 MOUNTING: Recessed ENCLOSURE: Type 1															PANEL: A MAINS: MCB AMPERAGE: 400 A MCB RATING: 400 A					
CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #				
1	AIR CONDITIONER - KITCHEN (RTU-1) (3-#6, #10 G. IN 1" C.)	60	3	HACR	49.0	C	5.9	0.0		-	0.0			3	60	TVSS (4-#6, #10 G. IN 1" C.)	2			
								5.9	0.0										4	
									5.9								0.0			6
5	AIR CONDITIONER - DINING ROOM (RTU-2) (3-#6, #10 G. IN 1" C.)	60	3	HACR	49.0	C	5.9	0.0		-	0.0			3	20	GRIDPOINT 3 PHASE METER (4-#12, #12 G. IN 3/4" C.)	10			
									5.9								0.0			11
																	5.9	0.0		
13	RECEPTACLES - STOREFRONT Receptáculos - Frente del restaurante	20	1		9.0	G	1.1	0.2		G	1.5		1	20	GRIDPOINT TRANSFORMER	14				
15	RECEPTACLES - DINING Receptáculos - Comedor	20	1		1.5	G		0.2	1.2	E	10.4		3	20	HOOD EXHAUST FAN (EF-1) (3-#12, #12 G. IN 3/4" C.)	16				
17	Panel BDP	20	1		16.5	G			2.0							1.2	18			
19	RECEPTACLES - ROOFTOP Receptáculos - Techo	20	1		3.3	G; E	0.4	1.2									20			
21	RECEPTACLES - POS GENERAL Receptáculos - Cajero general	20	1		6.0	G		0.7	0.5	E	3.9		3	15	HOOD MAKEUP AIR FAN (MAU-1) (3-#12, #12 G. IN 3/4" C.)	22				
23	SECURITY/AUDIO Seguridad y audio	20	1		3.0	G			0.4							0.5	24			
25	SPARE	20	1	--	--		0.0	0.5									26			
27	RECEPTACLES - OFFICE Receptáculos - Oficina	20	1	GFCI	9.0	G		1.1	0.5	A; E	4.4		1	15	RESTROOM FAN (EF-2)	28				
29	RECEPTACLES - RESTROOMS Receptáculos - Baños	20	1		3.0	G			0.4	0.5	A	4.6		1	20	LIGHTING - DINING ROOM Iluminación - Comedor	30			
31	RECEPTACLES - DML Receptáculos - Fax	20	1	GFCI	6.9	G	0.8	1.3		A	10.7		1	20	LIGHTING - KITCHEN Iluminación - Cocina	32				
33	BATHROOM SANITIZER Sanitizante de baño	20	1		0.2	E		0.0	0.0	--	--		1	20	SPARE	34				
35	HD-1 (CONTROL AND LIGHTS) (control y luces)	15	1		1.5	E			0.2	0.5	B	4.0		1	20	SIGN LIGHTING Iluminación para letreros	36			
37	PICK UP WINDOW NOTIFICATION	20	1		0.0	G	0.0	0.0		B	0.0		1	20	LIGHTING - EXTERIOR Iluminación - Exterior	38				
39	QUESADILLA MAKER - PUW (2-#10 G. IN 3/4" C.)	30	2	GFCI	28.0	F		2.9	0.8	B	6.7		1	20	SITE SIGNAGE	40				
41									2.9							0.0	A	0.0	1	20
43	QUESADILLA MAKER - PUW (2-#10 G. IN 3/4" C.)	30	2	GFCI	28.0	F	2.9	0.0		--	--		1	20	SPARE	44				
45									2.9							0.0	--	--	1	20
47	SPARE	20	1	--	--				0.0	0.0	--	--		1	20	SPARE	48			
49	SPARE	20	1	--	--		0.0	0.0			--	--		1	20	SPARE	50			
51	SPARE	20	1	--	--			0.0	0.0		--	--		1	20	SPARE	52			
53	SPARE	20	1	--	--				0.0	0.0	--	--		1	20	SPARE	54			
	FEED THRU (PANEL B) (4-500 KCMIL, #1/8 G. IN 4" C.)	0	3	LUGS	119.0	Spare; F	15.5	--		--	--		1	--						
									14.1	--	--	--	1	--						
											13.3	--	--	1	--					
PHASE TOTAL [kVA]:							35.6 kVA	36.8 kVA	33.6 kVA											
PHASE TOTAL [AMPS]:							299 A	309 A	280 A											
TYPE	DESCRIPTION	CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS												
A	INTERIOR LIGHTING	2 kVA		125.00%		2 kVA		TOTAL CONNECTED kVA: 106 kVA												
B	EXTERIOR LIGHTING	1 kVA		125.00%		2 kVA		TOTAL CONNECTED AMPS: 294 A												
C	COMFORT COOLING	35 kVA		100.00%		35 kVA		TOTAL ESTIMATED kVA: 87.7 kVA												
D	COMFORT HEATING	0 kVA		0.00%		0 kVA		TOTAL ESTIMATED AMPS: 243 A												
E	MISC. MOTOR	6 kVA		100.00%		6 kVA														
F	KITCHEN EQUIPMENT	55 kVA		65.00%		35 kVA														
G	RECEPTACLES	7 kVA		100.00%		7 kVA														

VOLTS: 208/120V Wye PHASES: 3 WIRES: 4 MOUNTING: Recessed ENCLOSURE: Type 1															PANEL: B MAINS: LUGS AMPERAGE: 400 A MCB RATING: 0 A				
CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #			
1	CARBONATOR/CO2 ALARM Sistema de carbonatación y alarma de CO2	20	1	GFCI	10.9	F	1.3	1.4		F	11.3		1	20	FOOD PREP TABLE (ISLAND) Mesa para la preparación de alimentos (isla)	2			
3	FOOD PREP TABLE Mesa para la preparación de alimentos	20	1		11.3	F		1.4	1.1	F	9.4	GFCI	1	20	SODA SYSTEM DISPENSER Dispensador para el sistema de refrescos	4			
5	UPRIGHT REFRIGERATOR (ISLAND) - 1 DOOR Refrigerador vertical	20	1		5.0	F			0.6	1.4	F	12.0	GFCI	1	20	ICE MAKER - UTENSIL COUNTER Máquina para hacer hielo	6		
7	READY-TO-DRINK REFRIGERATOR	20	1	GFCI	8.8	F	1.1	1.0		F	8.5	GFCI	1	20	BUBBLER	8			
9	COLD TOP (SERVE LINE) Tabla fría (línea de servicio)	20	1		12.0	F		1.4	0.6	F	5.0		1	20	UPRIGHT REFRIGERATOR (ISLAND) - 1 DOOR Refrigerador vertical	10			
11	ICE MAKER SANITIZER Desinfectante de la máquina para hacer hielo	20	1	GFCI	1.5	F			0.2	1.0	F	10.0		2	20	CARVING STATION Estación para cortar carnes	12		
13	ICE MAKER Máquina para hacer hielo	20	1	GFCI	16.0	F	1.9	1.0			F	10.0		2	20		14		
15	GAS WATER HEATER Calentador de agua a gas	20	1	GFCI	5.0	F		0.6	2.1		F	20.0		2	30	HOT FOOD SERVER (SERVE) (2-#10, #10 N, #10 G. in 3/4" C.) Servidor de alimentos	16		
17	GAS GRIDDLE Plancha de gas	20	1	GFCI	1.5	F			0.2	2.1						18			
19	GAS FRYER Freidora de gas	20	1	GFCI	0.6	F	0.1	1.4			F	13.0	GFCI	2	20	TORTILLA PRESS (SERVE LINE) (2-#10, #10 G. in 3/4" C.) Calentador de tortillas	20		
21	FOOD WARMER (RICE TABLE) Calentador de alimentos (mesa para el arroz)	15	1		1.5	F		0.2	1.4							22			
23	SPARE	20	1	--	--				0.0	0.3	F	2.6		1	20	REFRIGERATOR (COOK LINE) Refrigerador (línea para cocinar)	24		
25	TORTILLA PRESS (SML) (2-#10, #10 G. in 3/4" C.) Calentador de tortillas (línea del fax)	20	2	GFCI	13.0	F	1.4	0.2			F	1.5	GFCI	1	20	UV INSECT LIGHT TRAP	26		
27								1.4	2.1							28			
29	DISH MACHINE (2-#10, #10 G. in 3/4" C.) Lavavajillas	30	2	⚠	GFCI	25.0	F			2.6	2.1					30			
31							2.6	1.4		F	11.7	GFCI	1	20	FOOD WARMER (SML) Calentador de alimentos (línea de fax)	32			
33	SPARE	20	1	--	--			0.0	1.2	F	10.0	GFCI	1	20	COLD TOP (SML) Tabla fría (línea de fax)	34			
35	SPARE	20	1	--	--				0.0	0.8						36			
37	SPARE	20	1	--	--		0.0	0.8		F	6.5		3	15	CU-1 (3-#10, #10 G. in 3/4" C.)	38			
39	SPARE	20	1	--	--			0.0	0.8							40			
41	SPARE	20	1	--	--				0.0	0.2	F	1.6		1	20	WIC - EVAPORATOR	42		
43	SPARE	20	1	--	--		0.0	0.0		F	0.2			1	20	WIC - DOOR	44		
45	SPARE	20	1	--	--			0.0	0.0	--	--		1	20	SPARE	46			
47	SPARE	20	1	--	--				0.0	0.0	--	--		1	20	SPARE	48		
49	SPARE	20	1	--	--		0.0	0.0		--	--		1	20	SPARE	50			
51	SPARE	20	1	--	--			0.0	0.0	--	--		1	20	SPARE	52			
53	SPARE	20	1	--	--				0.0	1.8	F	15.0	GFCI	1	20	UPRIGHT REFRIGERATOR - 1 DOOR Refrigerador vertical	54		
PHASE TOTAL [kVA]:							15.5 kVA	14.1 kVA	13.3 kVA										
PHASE TOTAL [AMPS]:							130 A	119 A	111 A										

Consultant:



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MALLARD CREEK
W MALLARD CREEK CHURCH RD AND
SENATOR ROYALL DR, CHARLOTTE, NC
28262

Issue Record:
05/28/2024 PERMIT SET
07/10/2024 BID SET
09/23/2024 CONSTRUCTION SET

Revisions:
1 07/08/2024 COUNTY COMMENTS

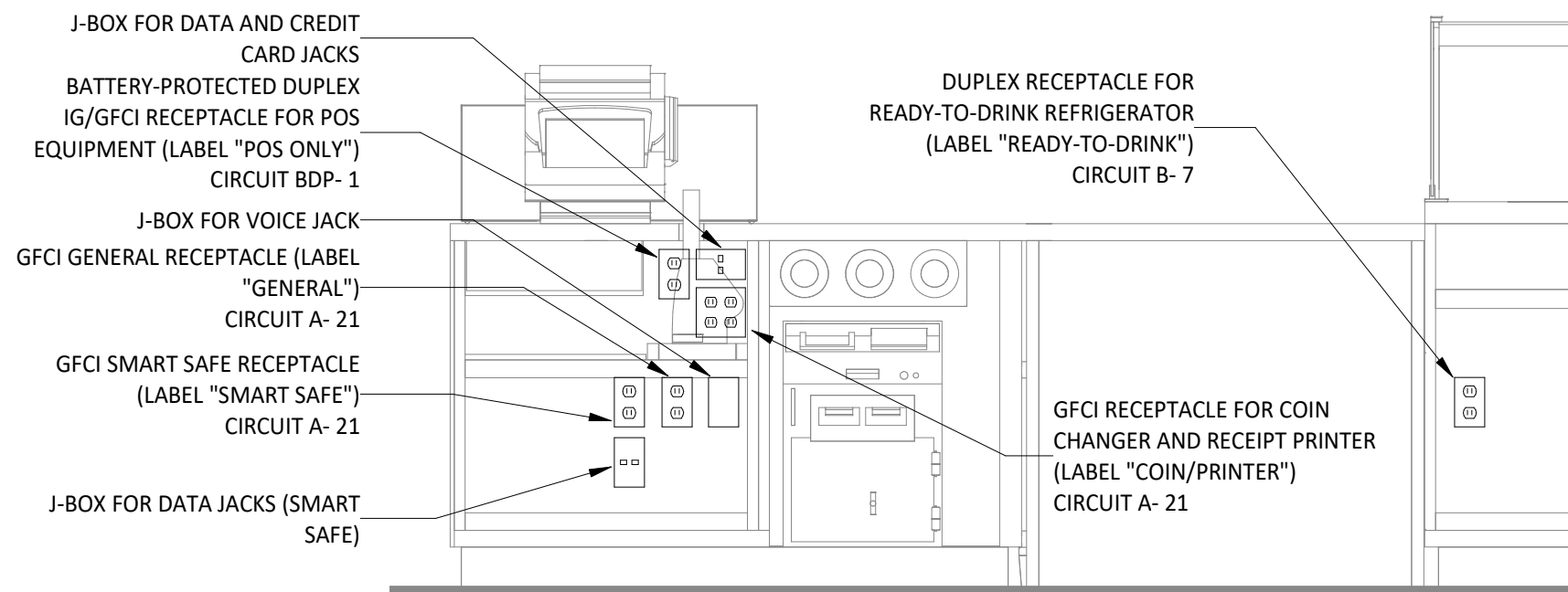
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Checked: DAA

Project No:
2401078

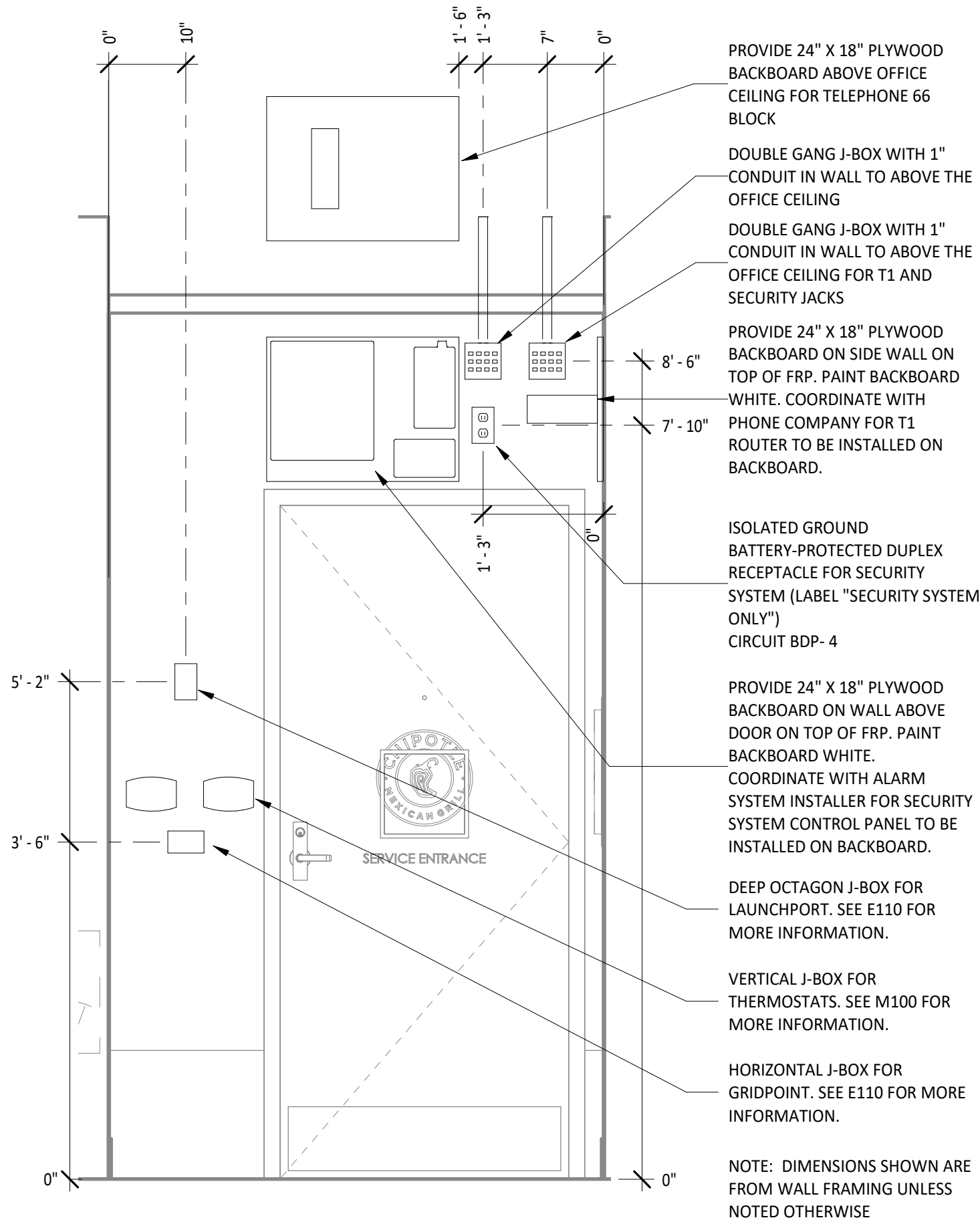
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ELECTRICAL
SCHEDULES

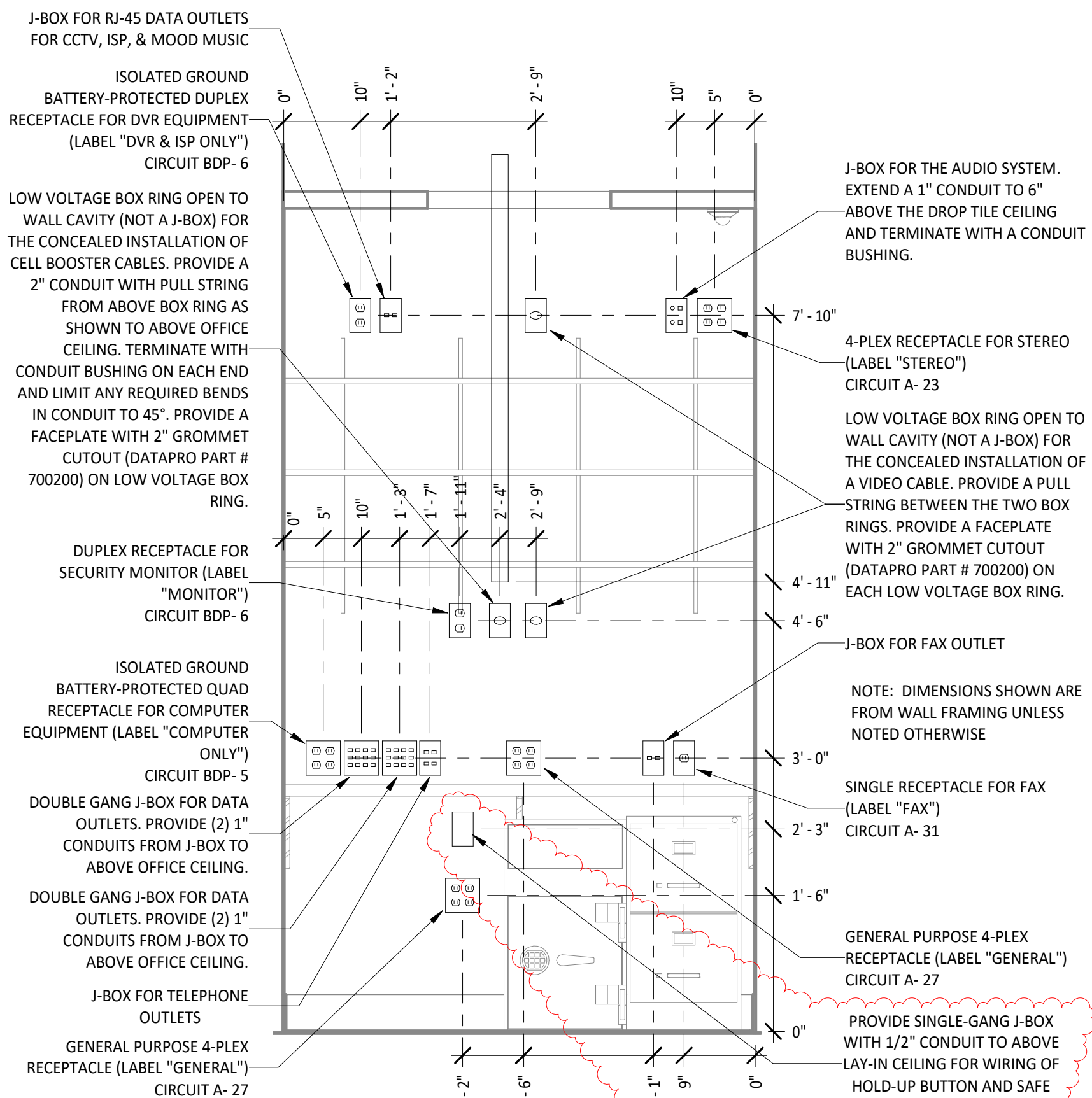
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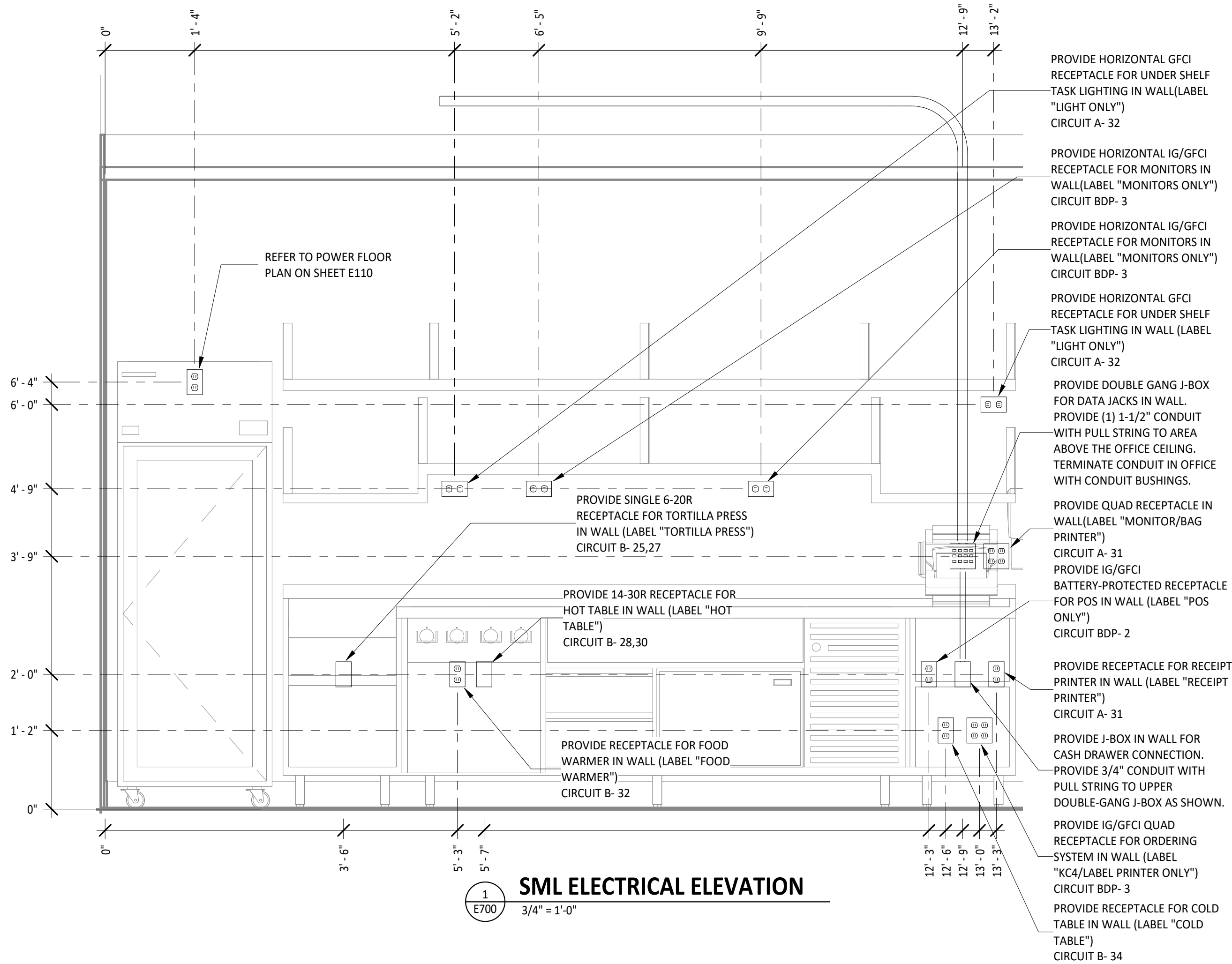
4
E700
POS COUNTER ELECTRICAL ELEVATION
3/4" = 1'-0"



3
E700
OFFICE DOOR ELECTRICAL ELEVATION
3/4" = 1'-0"

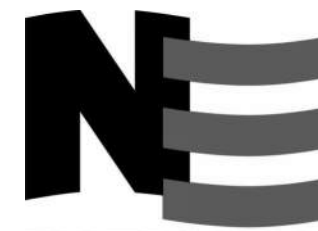


2
E700
OFFICE DESK ELECTRICAL ELEVATION
3/4" = 1'-0"



1
E700
SML ELECTRICAL ELEVATION
3/4" = 1'-0"

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MALLARD CREEK
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SENATOR ROYALL DR, CHARLOTTE, NC
28262

Issue Record:		PERMIT SET	
05/28/2024	07/10/2024	BID SET	
09/23/2024		CONSTRUCTION SET	

Revisions:	
2	09/23/2024 2024 DB UPDATES

Drawn:	Checked:
ACA	DAA

Project No.
2401078

Contents:

ELECTRICAL INTERIOR
ELEVATIONS

E700

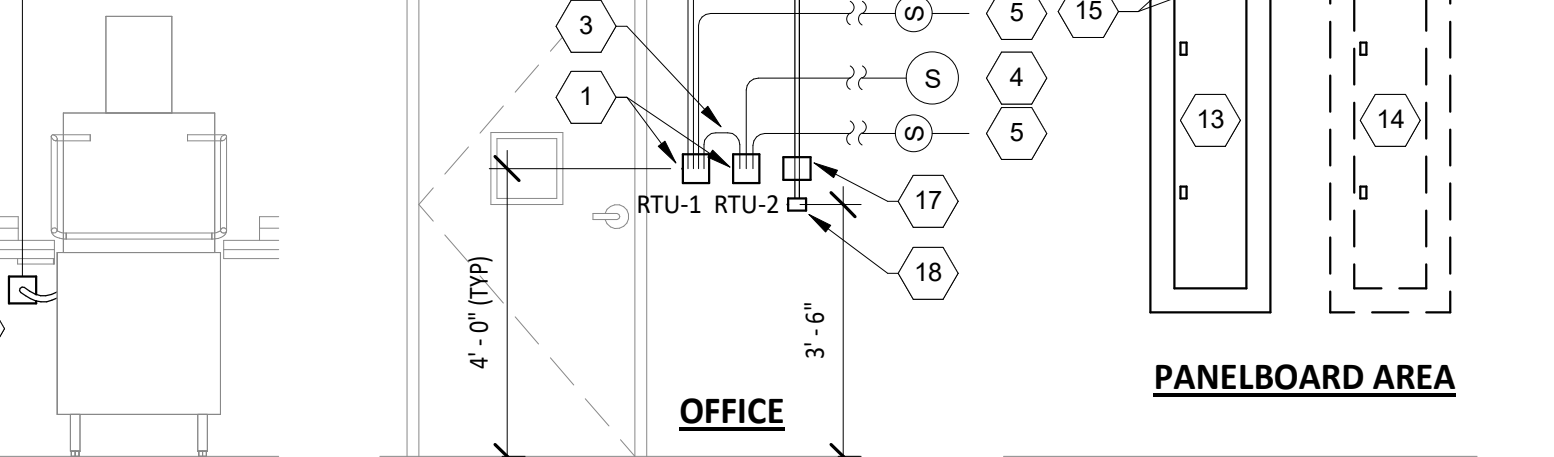
GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CATSE CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CATSE CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CATSE CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CATS CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

NOTE:

ARRANGEMENT SHOWN IS DIAGRAMMATIC - SEE PLANS FOR ACTUAL DEVICE LOCATIONS.

WARE WASHING



PANELBOARD AREA

GRIDPOINT WIRING DIAGRAM

8
E710 N.T.S.

SEQUENCE OF OPERATIONS

- A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
- B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
- C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, R7) SHALL BE ENERGIZED AT FULL POWER FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
- D. ALL DINING ROOM LIGHTING CIRCUITS (R4, R5, R6) SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
- E. EXTERIOR LIGHTING/SIGNAGE RELAY (R8) SHALL BE ENERGIZED FROM ONE HOUR BEFORE SUNSET UNTIL ONE HOUR AFTER CLOSING AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
- F. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITION. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
- G. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS R1, R2, R4, R5, R6, AND R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAY R2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- I. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 3) RELAYS R5 AND R6 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- J. EXTERIOR (CHANNEL 4): WHEN THE EXTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 4) RELAY R8 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- K. VERIFY THAT TIME, TIME ZONE, AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.

CO2 ALARM OPTIONS

CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	

INSTALL STROBE WITH WIRING TO CO2 DETECTOR SEU OR RDU (FURNISHED BY CO2AS) (IF REQUIRED). PROVIDE 3/4" CONDUIT IN WALL FROM STROBE LOCATION TO ABOVE CEILING TO CONCEAL WIRING.

CO2 TANK (BULK TANK OR CANISTERS)
PROVIDE GFCI RECEPTACLE J-BOX ADJACENT TO THE CO2 TANK/BAG-IN-BOX AS SHOWN ON THE ELECTRICAL POWER PLAN.

RECEPTACLE
21" AFF
CO2 DETECTOR/J-BOX
12" AFF

INSTALL CO2METER RAD-0102-06 CARBON DIOXIDE STORAGE SAFETY ALARM SEU (FURNISHED BY CO2AS) ADJACENT TO THE CO2 TANK/BAG-IN-BOX AS SHOWN.

CONNECT THE SYSTEM POWER TO THE RECEPTACLE AS SHOWN. INSTALL CABLE TO MINIMIZE SLACK AT CO2 DETECTOR. SECURE CABLE TO WALL.

AT SEU J-BOX, INSTALL MOUNTING PLATE TO TOP SCREW HOLE OF J-BOX WITH THE MOUNTING PLATE EXTENDING ABOVE THE TOP OF THE J-BOX IN THE ORIENTATION SHOWN.

SEU J-BOX

CO2 ALARM DETAIL

4
E710 N.T.S.

ELECTRICAL CONNECTIONS SHALL BE ON THE OPPOSITE SIDE OF THE DISH MACHINE FROM THE 3-COMP SINK. IF THIS IS ON THE LEFT SIDE OF THE DISH MACHINE THEN LIQUID TIGHT CONDUIT SHALL BE ROUTED BEHIND THE DISH MACHINE TO THE ELECTRICAL CONNECTIONS ON THE RIGHT SIDE OF THE DISH MACHINE..

POWER FOR DISH SANITIZING MACHINE SHALL BE FED FROM A DEDICATED 2-POLE LOCKABLE CIRCUIT BREAKER. PROVIDE FINAL CONNECTION FROM J-BOX IN WALL TO DISH SANITIZING MACHINE USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

PROVIDE CONDUITS AND WIRING FOR GRIDPOINT CONNECTION TO DSM AS SHOWN IN DETAIL 8/E710.

DISH SANITIZING MACHINE ELECTRICAL DETAIL

7
E710 N.T.S.

NOTE: EQUIPMENT SHOWN IS TYPICAL. SEE PLAN FOR ACTUAL EQUIPMENT AND LOCATIONS.

TERMINATE CONDUITS ABOVE CEILING WITH CONDUIT BUSHINGS. TYPICAL.

PROVIDE CONTINUOUS CATS CABLE WITH RJ45 CONNECTOR ON EACH END FROM THE SEU TO THE RDU AND FROM EACH STROBE TO A SEU/RDU (IF REQUIRED). CATS CABLES SHALL NOT BE SPLICED.

PROVIDE 1" CONDUITS CONCEALED IN WALL FROM SEU AND RDU J-BOX TO ABOVE THE LAY-IN CEILING. ALL CO2 MONITOR CABLING (OTHER THAN THE SEU POWER CABLE) SHALL BE CONCEALED WITHIN CONDUITS.

INSTALL CO2 ALARM RDU (FURNISHED BY CO2AS) AT ENTRANCE TO THE CO2 STORAGE AREA AS SHOWN.

CO2 REMOTE DISPLAY UNIT/J-BOX
48" AFF

PROVIDE JUNCTION BOX AT ENTRANCE TO THE CO2 STORAGE AREA AS SHOWN ON THE ELECTRICAL POWER PLAN.

AT RDU J-BOX, INSTALL MOUNTING PLATE TO TOP SCREW HOLE OF J-BOX WITH THE MOUNTING PLATE EXTENDING DOWN BELOW THE TOP OF THE J-BOX IN THE ORIENTATION SHOWN.

RDU J-BOX

120V FROM PANELBOARD

NEMA 5-20P FLANGED INLET (VERIFY THERE IS NOT 120V AT THIS INLET AFTER WIRING AND BEFORE CONNECTING UPS)

UPS POWER CORD
24" ADAPTER CORD

UPS OUTPUT
UPS INPUT

2000 VA UPS
MOUNTED TO WALL

LEGEND

PREWIRED CONDUCTOR
FIELD-WIRED CONDUCTOR

NOTE

REVIEW BDP PANEL INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

BYPASS DISTRIBUTION PANEL WIRING DIAGRAM

3
E710 N.T.S.

INSTALL 2000 VA WALL-MOUNTED UPS FURNISHED BY OWNER

PROVIDE CONNECTION FROM TERMINAL STRIP IN BDP TO THE INPUT AND THE OUTPUT OF THE UPS IN OFFICE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FINAL CONNECTION TO UPS SHALL BE THROUGH A SINGLE 5-20P RECEPTACLE AND A 5-20P FLANGED INLET.

PROVIDE (2)10 KCMIL, #10 CU G. IN 3/4". FROM PANEL A TO PANEL BDP. SEE FLOOR PLAN FOR PANEL LOCATION.

INSTALL SURFACE MOUNTED TVSS UNIT (CURRENT TECHNOLOGY MODEL CG60-120/208-3GV) FURNISHED BY CMG. FEED THROUGH 60A 3PH CIRCUIT BREAKER. LOCATE AS CLOSE AS POSSIBLE TO TOP OF PANELBOARD NEAR CEILING. CONDUCTORS SHALL NOT HAVE SHARP BENDS. INSTALL TVSS UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEEP CONDUCTOR LENGTH AS SHORT AS POSSIBLE.

PROVIDE PANELS A AND B AND INSTALL BDP AS SHOWN. CIRCUIT BREAKERS PANELS A AND B SHALL HAVE A SERIES COMBINATION RATING OF AT LEAST 65,000 AIC WHEN USE IN SERIES WITH 400A FUSES IN THE MAIN FUSED DISCONNECT. PROVIDE THE FOLLOWING MARKING ON THE PANELBOARDS AND MAIN FUSED DISCONNECT:

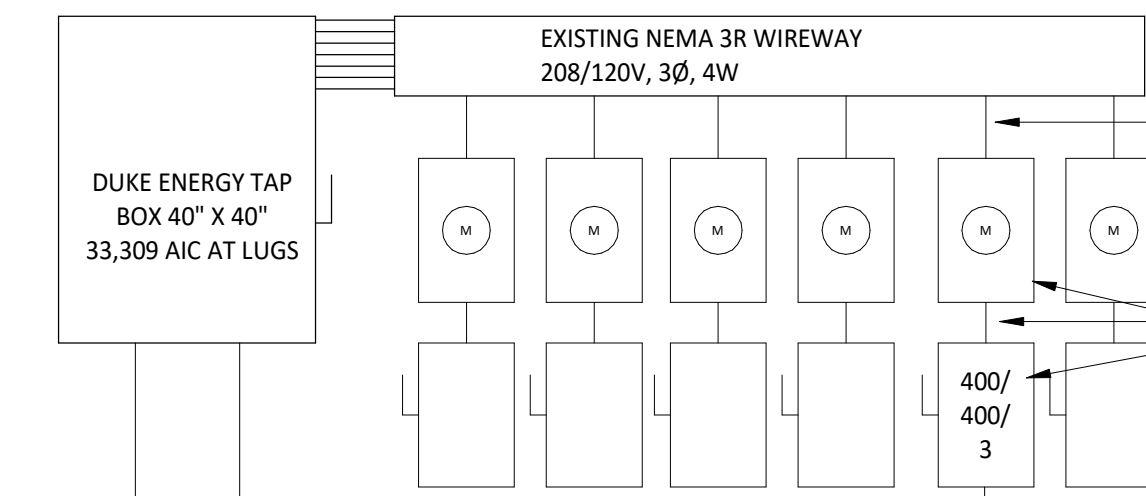
"CAUTION - SERIES COMBINATION SYSTEM RATED 65,000 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"

PROVIDE (4)600 KCMIL, #3 CU G. IN 4". FROM PANEL A TO PANEL B. SEE FLOOR PLAN FOR PANEL LOCATION.

PROVIDE (4)600 KCMIL, #1/0 CU G. IN EXISTING 4". FROM 400A METER AND DISCONNECT TO NEW PANEL LOCATION IN THE SPACE. SEE FLOOR PLAN FOR PANEL LOCATION.

MAIN DISTRIBUTION DIAGRAM

1
E710 N.T.S.



PROVIDE (4)600 KCMIL, # 1/0 CU G. IN 4". FROM WIREWAY TO METER AND FROM METER TO DISCONNECT

PROVIDE 400/400/3 FUSED DISCONNECT AND METERED SERVICE FROM EXISTING WIREWAY ON THE REAR OF THE BUILDING. SEE SITE PLAN FOR LOCATION.

PROVIDE CONTACTOR IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING FOR CONTROL OF EXTERIOR LIGHTING AND SIGNAGE

PROVIDE LOW-VOLTAGE WIRING TO FIXTURES CONTROLLED BY 0-10V DIMMING (IF APPLICABLE)

PROVIDE POWER WIRING TO RELAY-CONTROLLED FIXTURES AND DEVICES.

INSTALL ACUITY nLIGHT ARP LIGHTING CONTROL PANEL. SEE SHEET E100 FOR LOCATION.

INSTALL ACUITY nLIGHT 4-CHANNEL SWITCH WITH WHITE BUTTONS, SS PLATE, AND BUTTON ENGRAVING. SEE SHEET E100 FOR LOCATION. ENGRAVING AS FOLLOWS:
CHANNEL 1 ON/OFF: "INT ON"/ "INT OFF"
CHANNEL 2 ON/OFF: "KITCH NORM"/ "KITCH DIM"
CHANNEL 3 ON/OFF: "DINE NORM"/ "DINE DIM"
CHANNEL 4 ON/OFF: "EXT ON"/ "EXT OFF"

INTERIOR LIGHTING CONTROL DIAGRAM

6
E710 N.T.S.

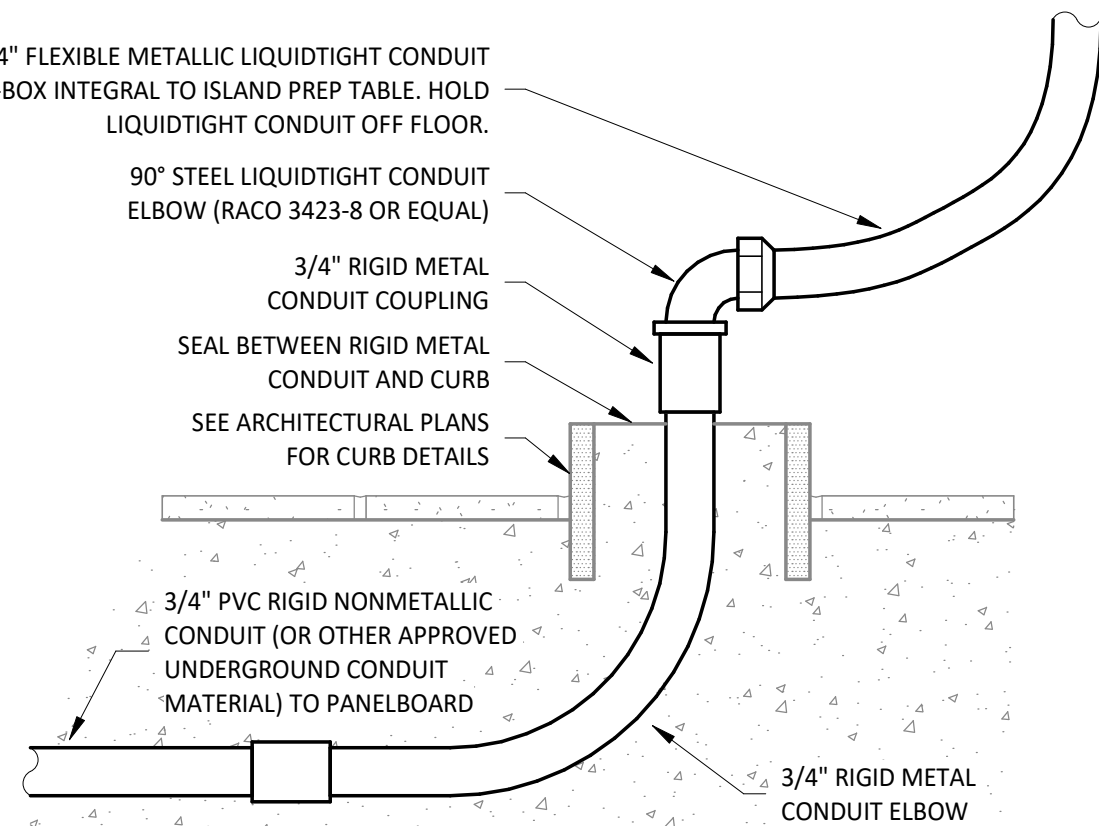
PROVIDE GASKET BETWEEN PEDESTAL AND 1-GANG BOX COVER PLATE CONCRETE CURB (SEE ARCHITECTURAL SHEETS FOR DETAILS)

PROVIDE METALLIC PEDESTAL (HUBBELL SC3098A) WITH COVER PLATES ON EACH SIDE SUITABLE FOR WIRING AS SHOWN ON PLAN (SS309SF FOR HARD-WIRED CONNECTIONS AND SS309BF FOR BLANK)

PROVIDE 1-GANG CONCRETE FLOOR BOX WITH COVER WITH 3/4" T HREADED HOLE

PEDESTAL OUTLET BOX DETAIL

5
E710 N.T.S.



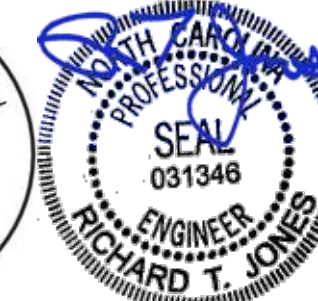
PEDESTAL OUTLET DETAIL

2
E710 N.T.S.

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MALLARD CREEK

W MALLARD CREEK CHURCH RD AND

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28262

Issue Record:

05/28/2024 PERMIT SET
07/10/2024 BID SET
09/23/2024 CONSTRUCTION SET

Revisions:

1 07/08/2024 COUNTY COMMENTS
2 09/23/2024 2024 DB UPDATES

Drawn:

DAA

Checked:

DAA

Project No.

2401078

Contents:

ELECTRICAL DETAILS

E710

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: CMG - Mallard Creek, NC
Project Type: New Construction

Construction Site: 1219 Burkemont Ave.
Charlotte, North Carolina 28262
Owner/Agent: Chipotle Mexican Grill, INC.
Columbus, Ohio 43218
614-318-2400
Designer/Contractor: Richard T. Jones
National Engineering, LTD.
4635 Trueman Blvd. Suite 250
Hilliard, Ohio 43026
614-751-9610
rtjones@nationalengineering.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Dining: Cafeteria/Fast Food	2391	0.81	1937
Total Allowed Watts =			1937

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Dining: Cafeteria/Fast Food				
LED: A1: Other:	1	11	30	330
LED: B1: Other:	1	7	17	119
LED: B2: Other:	1	25	17	425
LED: B3: Other:	1	4	12	48
LED: C2: Other:	1	6	12	72
LED: C3: Other:	1	3	15	Exempt
Exemption:Lighting Sales or Education				
LED: C3: Other:	1	3	15	45
LED: C4: Other:	1	8	18	144
LED: E1: Other:	1	4	2	Exempt
Exemption:Exit Signs, Safety or Emergency Lighting				
LED: E2: Other:	1	4	1	Exempt
Exemption:Exit Signs, Safety or Emergency Lighting				
LED: E4: Other:	1	4	2	Exempt
Exemption:Exit Signs, Safety or Emergency Lighting				
LED: E7: Other:	1	7	1	Exempt
Exemption:Exit Signs, Safety or Emergency Lighting				
LED: H1: Other:	1	9	23	Exempt
Exemption:Lighting Integral to Equipment				
LED: J4: Other:	1	2	9	18

Project Title: CMG - Mallard Creek, NC
Data filename: Report date: 07/08/24
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Richard T. Jones
Name - Title Signature
Signed On
07/08/2024 4:47:32 PM
Date

Project Title: CMG - Mallard Creek, NC
Data filename: Report date: 07/08/24
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A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: P4: Other:	1	7	8	56
LED: P6: Other:	1	1	30	30
LED: T1: Other:	1	12	10	120
LED: W1: Other:	1	4	29	Exempt
Exemption:Lighting Integral to Equipment				
Total Proposed Watts =			1407	

Interior Lighting PASSES: Design 27% better than code

Interior Lighting Compliance Statement

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

Richard T. Jones
Name - Title Signature
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07/08/2024 4:47:10 PM
Date

Project Title: CMG - Mallard Creek, NC
Data filename: Report date: 07/08/24
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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
C103.2 [PR2]†	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]†	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.
C103.2 [PR4]†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C406 [PR9]†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐ 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)
Project Title: CMG - Mallard Creek, NC
Data filename: Report date: 07/08/24
Page 5 of 12

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: CMG - Mallard Creek, NC
Location: Charlotte, North Carolina
Climate Zone: 3a
Project Type: New Construction

Construction Site: 1219 Burkemont Ave.
Charlotte, North Carolina 28262
Owner/Agent: Chipotle Mexican Grill, INC.
Columbus, Ohio 43218
614-318-2400
Designer/Contractor: Richard T. Jones
National Engineering, LTD.
4635 Trueman Blvd. Suite 250
Hilliard, Ohio 43026
614-751-9610
rtjones@nationalengineering.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Mechanical Systems List

QuantitySystem Type & Description

- HVAC System (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 250 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 113 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER
Fan System: RTU-1 | KITCHEN - Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
RTU-1 Supply, Constant Volume, 3500 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 80.0 design fan efficiency
- HVAC System (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 250 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 117 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.60 IEER
Fan System: RTU-2 | Dining - Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
FAN 2 Supply, Constant Volume, 3500 CFM, 2.0 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 80.0 design fan efficiency
- Water Heater:
Gas Instantaneous Water Heater, Capacity: 1 gallons, Input Rating: 199 kBtu/h
Proposed Efficiency: 0.62 EF, Required Efficiency: 0.62 EF

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: CMG - Mallard Creek, NC
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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5, C403.2.4.6 [FO9]†	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)
Project Title: CMG - Mallard Creek, NC
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Revisions:

Drawn: Checked:
DAA DAA

Project No.
2401078

Contents:

COMPLIANCE REPORT

EN001

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7]¹	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]¹	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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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	Exception: Lighting that is related to means of egress in stairways, ramps, corridors, or emergency routes.
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]¹	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]¹	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]¹	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.2.3, 1, C405.2.3, 2 [EL20]¹	Primary sidelighted areas are equipped with required lighting controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
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)

Project Title: CMG - Mallard Creek, NC Report date: 07/08/24
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]¹	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]¹	Unenclosed spaces that are heated use only radiant heat.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.2.4, 7 [ME113]¹	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.6, 1 [ME59]¹	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	Requirement will be met.
C403.2.6, 2 [ME115]¹	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	Requirement will be met.
C403.2.8 [ME116]¹	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	Requirement will be met.
C403.2.9 [ME60]¹	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	Requirement will be met.
C403.2.9 [ME10]¹	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]¹	Ductwork operating >3 in. water column requires air leakage testing.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C403.3 [ME62]¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.4, 6 [ME110]¹	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. <i>See the Mechanical Systems list for values.</i>

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

Project Title: CMG - Mallard Creek, NC Report date: 07/08/24
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5, 2 [F117]¹	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.
C303.3, C408.2.5, 3 [F18]¹	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 [F127]¹	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 [F147]¹	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, 2 [F138]¹	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4, 1, 3 [F120]¹	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4, 2 [F139]¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4, 2.1, C403.2.4, 2.2 [F140]¹	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 [F141]¹	Systems include optimum start controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C404.3 [F111]¹	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 [F125]¹	All piping insulated in accordance with section details and Table C403.2.10.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C405.4.1 [F118]¹	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	<i>See the Interior Lighting fixture schedule for values.</i>

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

Project Title: CMG - Mallard Creek, NC Report date: 07/08/24
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C408.2.2, 1 [ME53]¹	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]¹	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)

Project Title: CMG - Mallard Creek, NC Report date: 07/08/24
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [F128]¹	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 [F131]¹	HVAC equipment has been tested to ensure proper operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.3, 2 [F110]¹	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.
C408.2.3, 3 [F132]¹	Economizers have been tested to ensure proper operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.4 [F129]¹	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 [F17]¹	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, 1 [F116]¹	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.
C408.2.5, 3 [F143]¹	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 [F130]¹	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.
C408.3 [F133]¹	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:

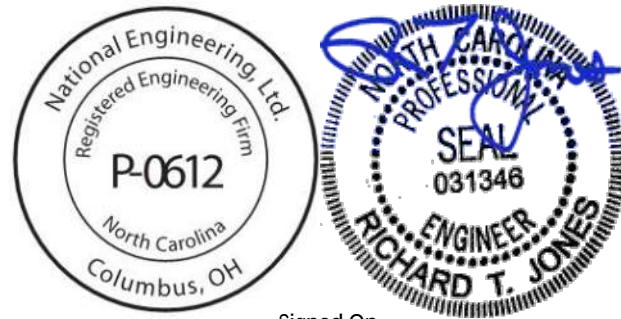
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: CMG - Mallard Creek, NC Report date: 07/08/24
Data filename: Page 12 of 12

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EN002