

# MECHANICAL SYMBOLS LIST

EQUIPMENT SYMBOL		CONTROLS AND SENSORS	
	EQUIPMENT SYMBOL		THERMOSTAT
	RISER SYMBOL		TEMPERATURE SENSOR
<b>AIR DEVICES</b>			CO2 DETECTOR
	CEILING DIFFUSER SUPPLY		DUCT SMOKE DETECTOR
	CEILING DIFFUSER RETURN	<b>DUCTWORK</b>	
	SIDEWALL/DUCT MOUNTED GRILLE-SUPPLY		AIR DUCT W/ 1.5" ACOUSTICAL LINING
			FLEXIBLE DUCT
			FLEXIBLE CONNECTION
			RECTANGULAR DUCT (WIDTH X DEPTH)
			ROUND DUCT (DIAMETER)
<b>DUCT ACCESSORIES</b>			ROUND DUCT CROSS SECTION
	GRAVITY DAMPER		SUPPLY AIR RECTANGULAR DUCT CROSS SECTION
	FIRE DAMPER		RETURN AIR RECTANGULAR DUCT CROSS SECTION
	MOTORIZED DAMPER W/ ACCESS DOOR	<b>GRILLE/DIFFUSER DETAILS</b>	
	FIRE SMOKE DAMPER W/ ACCESS DOOR		GRILLE/DIFFUSER TAG
	VOLUME DAMPER W/ ACCESS DOOR		GRILLE/DIFFUSER NECK SIZE
			GRILLE/DIFFUSER QUANTITY
			GRILLE/DIFFUSER CFM
<b>MECHANICAL ABBREVIATIONS</b>			
AC	AIR CONDITIONER	ACCU	AIR CONDITIONER CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR	AL	ACOUSTIC LINING
CFM	CUBIC FEET OF AIR PER MINUTE	COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP	DN	DOWN
EF	EXHAUST FAN	FC	FLEXIBLE CONNECTION
HSPF	HEATING SEASONAL PERFORMANCE FACTOR	IEER	INTEGRATED ENERGY EFFICIENCY RATIO
KXF	KITCHEN EXHAUST FAN	MD	MOTORIZED DAMPER
REF	REFRIGERANT PIPING	SEER	SEASONAL ENERGY EFFICIENCY RATIO
TEF	TOILET EXHAUST FAN	DOAS	DEDICATED OUTSIDE AIR SUPPLY
EER	ENERGY EFFICIENCY RATIO		

MECHANICAL DRAWING LIST	
M1.0	MECHANICAL GENERAL NOTES, SYMBOLS
M2.0	MECHANICAL FLOOR & ROOF PLAN

### APPLICABLE CODES

- INTERNATIONAL BUILDING CODE 2018 W/ ALL GEORGIA AMENDMENTS
- INTERNATIONAL PLUMBING CODE 2018 W/ ALL GEORGIA AMENDMENTS
- INTERNATIONAL MECHANICAL CODE 2018 W/ ALL GEORGIA AMENDMENTS
- INTERNATIONAL FUEL GAS CODE 2018 W/ ALL GEORGIA AMENDMENTS
- NATIONAL ELECTRICAL CODE 2023
- INTERNATIONAL ENERGY CONSERVATION CODE 2015 W/ ALL GEORGIA AMENDMENTS

## DALTON, GA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF 2018-IBC AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS.
- TESTS WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS. THE TESTS WILL SHOW COMPLIANCE WITH 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS AS OUTLINES IN SECTION.
- THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
- TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 2018 IMC 107 AND THE FOLLOWING SECTIONS OF THE 2018 IMC.
  - MECHANICAL VENTILATION - SECTION 403.
- THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
  - SPACE-HEATING SYSTEM - 2018 IMC 309.1
  - DUCT CONSTRUCTION AND INSTALLATION- 2018 IMC 603
  - AIR INTAKES, EXHAUSTS AND RELIEFS - 2018 IMC 401.5
  - AIR FILTERS - 2018 IMC 605
- MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- VENTILATION FOR ALL AREA SHALL COMPLY WITH 2018 IMC 401.
- A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2018 IMC 403.3
- REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
- THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- SMOKE DETECTOR SHALL MEET UL268A.
- SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS WITH THE REQUIREMENTS OF SECTION 606, 2018 INTERNATIONAL MECHANICAL CODE TO CLOSE DAMPERS AND AUTOMATICALLY STOP THE FAN.

### GENERAL NOTES

- CONTRACTOR SHALL SURVEY THE AREA OF THIS WORK BEFORE SUBMITTING A BID AND SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY CONDITIONS WHICH WOULD PREVENT THE INSTALLATION OF THE WORK AS SHOWN ON DRAWINGS.
- ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED OR USED AREAS, THE CONTRACTOR SHALL APPLY TO OWNER FOR PERMISSION TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGED TO PERFORM HIS WORK ONLY AT THE TIMES DESIGNATED BY OWNER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED AFTER HOURS OR ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL.
- THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
- THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.

- CONTRACTOR SHALL ASCERTAIN THE APPROPRIATE METHOD FOR BRINGING THE UNITS INTO AND THROUGH THE BUILDING TO POSITION UNIT IN LOCATION SHOWN ON THE PLANS. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH SPACES. COORDINATE WITH BUILDING OWNER APPROPRIATE TIMES OF DAY SUCH EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
- DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.
- CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT.
- PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. PROVIDE TEMPORARY DUCT CAPS AND/OR CONNECTIONS TO MINIMIZE SHUTDOWN TIME.
- SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEEB & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK, CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER.
- PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDUIT, AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
- SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL (FIBERGLASS INSULATION IS NOT ACCEPTABLE).
- WHERE PENETRATIONS THROUGH FIRE RATED WALLS ARE NOT FIRE PROOFED THE CONTRACTOR SHALL BE RESPONSIBLE TO SEAL SAME TO MAINTAIN THE RATED INTEGRITY.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- ACCESS DOORS ARE REQUIRED FOR ALL BUILDING SERVICE VALVES THAT RUN THROUGH THE SPACE, AND ACCESS DOOR SHALL HAVE THE EQUAL RATED CAPACITY (1HR, 2HR, ETC.) AS WALL. COORDINATE ALL LOCATIONS OF ACCESS DOORS WITH THE ARCHITECT.
- REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
- THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- ALL EQUIPMENT SHALL BE PROVIDED WITH ONE YEAR WARRANTY PARTS AND LABOR AND FIVE YEARS ON COMPRESSORS. WARRANTY PERIOD BEGINS UPON PROJECT ACCEPTANCE
- ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST, OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FAILURE OF ANY DUCTWORK SYSTEM OR EQUIPMENT TO FUNCTION PROPERLY UPON COMPLETION OF HIS WORK UPON SAID SYSTEM OR EQUIPMENT.
- SUBMIT SHOP DRAWING OF ALL WORK WHICH MUST BE APPROVED BY THE ARCHITECT AND ENGINEER BEFORE WORK COMMENCES.
- ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.

27. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.

28. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS THE CONTRACTOR SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.

29. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

30. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.

31. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS, THE SPECIFICATIONS OR ANY OTHER CONSTRUCTION DOCUMENT, THE ONE WITH THE MOST STRINGENT REQUIREMENT(S) SHALL APPLY.

### DEFINITIONS:

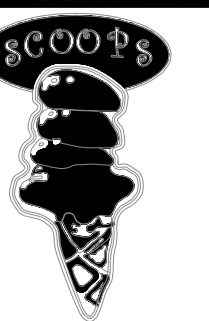
- "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
- "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
- "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

### SCOPE OF WORK

#### SCOPE OF WORK

- THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS AS DESCRIBED IN THE SPECIFICATIONS, FLOOR PLAN(S) DESIGN, DETAIL DRAWINGS, NOTES, RF'S, ETC. FOR THIS PROJECT. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
- THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
- THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

SCOOPS

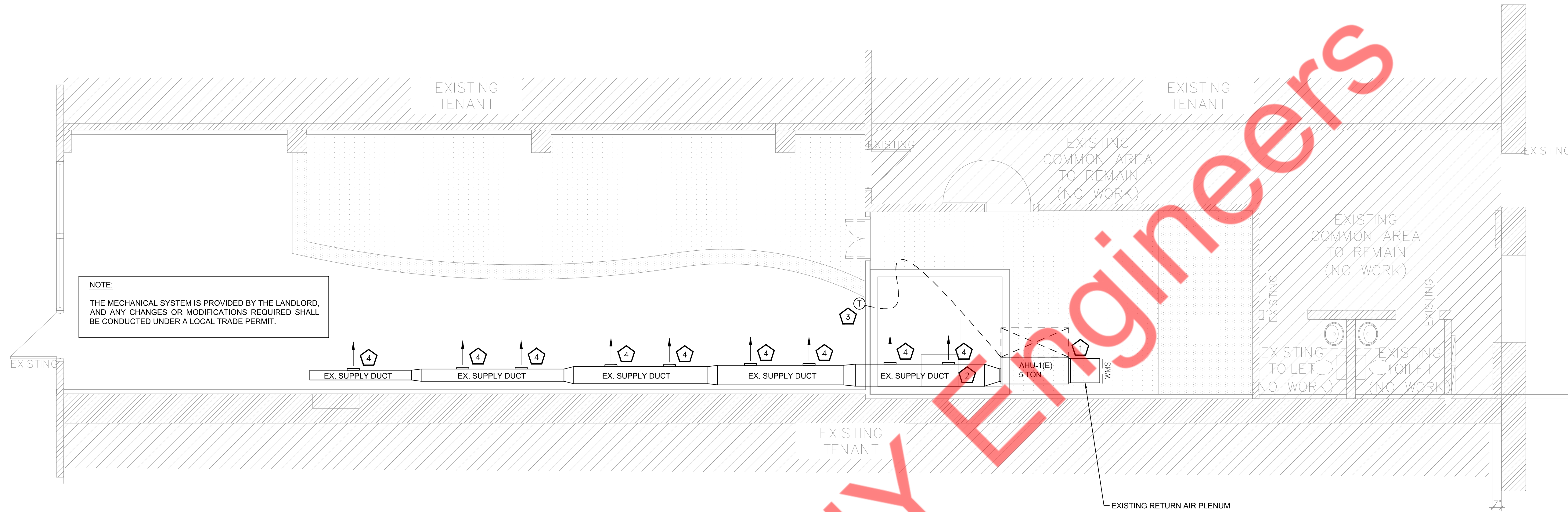


**MECHANICAL  
GENERAL  
NOTES, SYMBOLS**

**M1.0**

PLOT DATE:

2/18/2025



**NOTE:**  
THE MECHANICAL SYSTEM IS PROVIDED BY THE LANDLORD, AND ANY CHANGES OR MODIFICATIONS REQUIRED SHALL BE CONDUCTED UNDER A LOCAL TRADE PERMIT.

**MECHANICAL FLOOR PLAN** 1/4"=1'-0" **A**

SPLIT SYSTEM SCHEDULE	
UNIT TAG	AHU-1(E)
UNIT TYPE	MULTI-POSITION
AREA SERVED	SEE PLAN
SUPPLY AIR (CFM)	1800(V.I.F.)
OUTSIDE AIR (CFM)	S.A.E.
STATIC PRESS. (E.S.P.)	S.A.E.
VOLTS/PH/Hz	208-230/1/60(V.I.F.)
TOT. COOLING CAP. (MBH)	S.A.E.
MANUFACTURER	RHEEM(V.I.F.)
MODEL NO.	RH1T8024STANJA
ELECTRIC HEAT CAPACITY(KW)	S.A.E.
WEIGHT, LBS	S.A.E.
MIN. CKT. AMPACITY	S.A.E.
MOCP (STAGE1/2)	S.A.E.
UNIT TAG	ACCU-1 (E)
AIR HANDLER SERVED	AHU-1 (E)
NOMINAL CAPACITY	5.0 TR(S.A.E.)
REFRIGERANT	R410-A(V.I.F.)
COMPRESSOR RLA/LRA	S.A.E.
OUTDOOR FAN FLA	S.A.E.
V/Ph/Hz	S.A.E.
M.C.A. / M.C.B. AMPS	S.A.E.
MANUFACTURER	RHEEM(V.I.F.)
MODEL # (CONDENSER)	(V.I.F.)
TOT. COOLING CAP. (MBH)	(V.I.F.)
EER/SEER	S.A.E.
WEIGHT, LBS	S.A.E.

**NOTES:**  
 1. S.A.E.: SAME AS EXISTING, V.I.F.: VERIFY IN FIELD.  
 2. (E): EXISTING, (N): NEW  
 3. CONTRACTOR TO REUSE ACCESSORIES, IF ANY. REPAIR/ REPLACE ACCESSORIES IN KIND IF NOT IN SATISFACTORY WORKING CONDITION.  
 4. CONTRACTOR TO FIELD VERIFY AND PROVIDE AUXILIARY DRAIN IF EXISTING IS NOT IN SATISFACTORY WORKING CONDITION/ NOT FOUND.

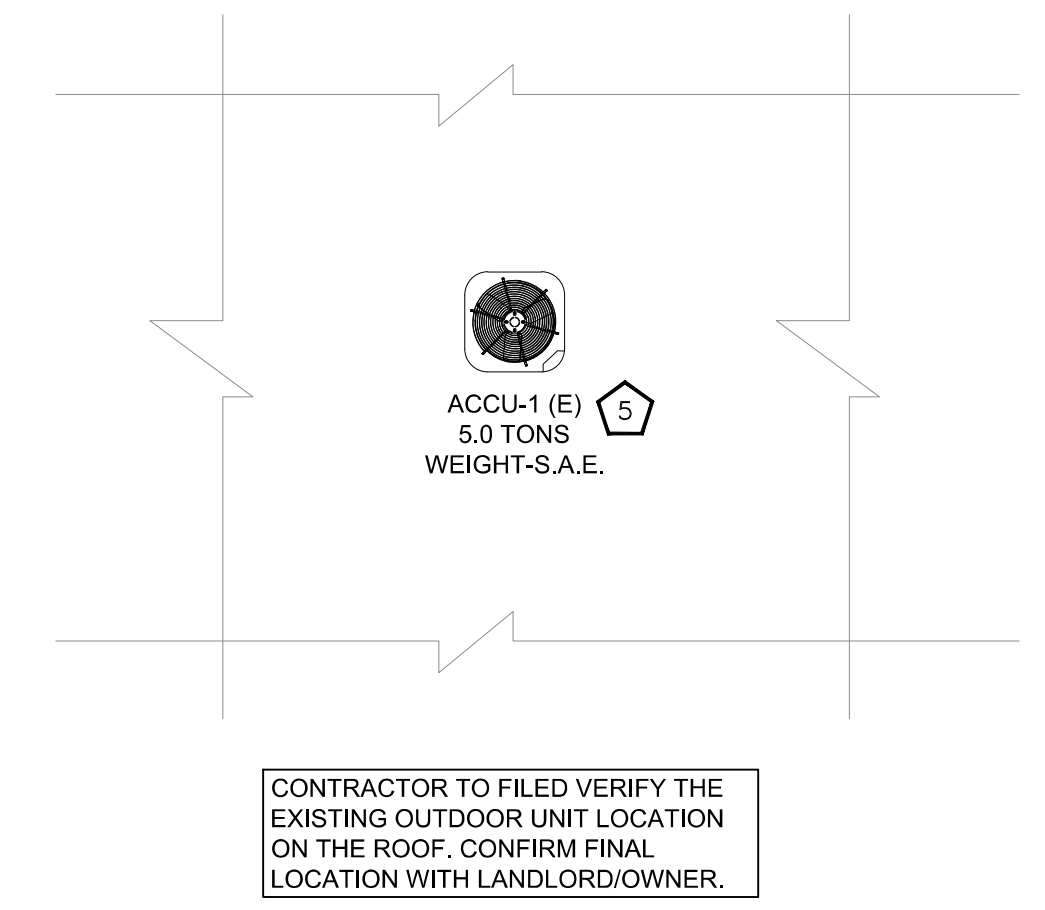
**MECHANICAL SCHEDULE** **E**

- 1. EXISTING AHU-1 TO REMAIN AS IS AND TO BE REUSED. VERIFY THE EXACT LOCATION OF THE EQUIPMENT ON THE FIELD. REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD.
- 2. EXISTING DUCTWORK TO REMAIN. CONTRACTOR SHALL CLEAN AND REFURBISH TO "LIKE NEW" CONDITION. VERIFY EXACT LOCATION AND SIZE IN FIELD. CONTRACTOR SHALL INSPECT, PATCH, REPAIR, AND/OR REPLACE INSULATION TO MAKE THE ENTIRE SYSTEM AIR-TIGHT. COORDINATE IN FIELD PRIOR TO BID.
- 3. RELOCATE AND REUSE EXISTING THERMOSTAT. IF THE EXISTING THERMOSTAT IS NOT IN CONDITION TO REUSE, INSTALL NEW THERMOSTAT WITH LOCKABLE VENTED BOX TO BE MOUNTED AT 45" CENTER LINE A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 4. EXISTING GRILLES TO REMAIN. CLEAN AND REFURBISH TO "LIKE NEW" CONDITION.
- 5. OUTDOOR UNIT IS ON THE ROOF. COORDINATE ON FIELD FOR EXACT LOCATION.

**KEY NOTES** **D**

- GENERAL NOTES:**
- IF EXISTING ROOFTOP UNIT IS BEING REUSED, LANDLORD TO BRING UP TO "LIKE NEW" CONDITION.
  - CONTRACTOR SHALL NOTIFY ARCHITECT / ENGINEER IMMEDIATELY OF ANY DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS.
  - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY OPENINGS ON ROOF, CEILING OR WALLS RESULTING FROM THE REMOVAL OF MECHANICAL DEVICES.
  - ALL DUCT SIZES SHOWN ON MECHANICAL FLOOR PLANS ARE CLEAR INSIDE. INTERNAL AND EXTERNAL INSULATION THICKNESS OF DUCTS SHALL BE CONSIDERED SEPARATELY.
  - COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES.

**MECHANICAL GENERAL NOTES** **C**



**MECHANICAL ROOF PLAN** **B**

**SCOOPS**

**MECHANICAL FLOOR & ROOF PLAN**

**M2.0**

- UNLESS PROHIBITED BY LOCAL CODE, USE THE FOLLOWING MATERIAL FOR PLUMBING PIPING:
  - FOR WATER SUPPLY DISTRIBUTION SYSTEM: CROSS-LINKED POLYETHYLENE (PEX) PIPING & CORRESPONDING FITTINGS PER IPC SECTION 605 (OR AS PER APPLICABLE CODE).
  - FOR SANITARY WASTE & VENT SYSTEM: SCH 40 PVC & CORRESPONDING FITTINGS PER IPC SECTION 702 (OR AS PER APPLICABLE IPC CODE).
- SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
- ALL DRAWN WATER LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
- CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
- PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
- ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
- ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- REFER TO EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- REFER TO MECHANICAL SHEETS FOR HVAC PLUMBING REQUIREMENTS.
- ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
- PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.
- PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
- PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.
- COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
- FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.
- PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
- THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
- ALL WATER LINES SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED.
- ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
- PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULK OR EXPANDING FOAM FOR SEALANT.

**GENERAL NOTES**

**E**

**GREASE INTERCEPTOR SIZING**

GREASE INTERCEPTOR WAS SIZED WITH THE FOLLOWING FORMULA:

FLOW RATE TO GREASE INTERCEPTOR (GPM):  
 FIXTURE FLOW RATE (CU IN / 231) = GALLONS X 0.75 (DIVERSITY) / 1 MINUTE (RETENTION)

FIXTURE	DIMENSIONS	QTY.	VOLUME (CU IN)	TOTAL (GPM)
S-4: PREP SINK	16" x 20" x 12"	1	3840	12.4 GPM
FD-1: FLOOR DRAIN		1		02.5 GPM
<b>TOTAL</b>				<b>14.9 GPM</b>

CONTRACTOR SHALL INSTALL (1) 20 GPM / 40 LBS GREASE CAPACITY MINIMUM GREASE INTERCEPTOR. VERIFY SIZE AND TYPE WITH LOCAL CODE OFFICIAL OR PLUMBING, BUILDING OR HEALTH CODE OFFICIAL PRIOR TO BIDDING.

**GREASE TRAP DESIGN INFORMATION**

**F**

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	(N)	NEW
	(E)	EXISTING
⊕	F.D.	FLOOR DRAIN
⊙	H.D.	HUB DRAIN
⊗	OFD	OVERFLOW DRAIN
⊠	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
⊗		PLUMBING EQUIPMENT DESIGNATION
⊗		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIP. DRAWINGS FOR DESCRIPTION.
— SS —	SS	SOIL OR WASTE (SANITARY)/ WASTE STUB
— GW —	GW	SOIL OR WASTE (GREASE WASTE)/WASTE STUB
— G —	G	GAS / GAS STUB
— CW —	CW	COLD WATER / CW STUB
— HW —	HW	HOT WATER / HW STUB
— HWR —	H.W.R.	HOT WATER RETURN
— V —	V.	SANITARY VENT
— SD —	S.D.	STORM DRAIN
— CD —	C.D.	CONDENSATE DRAIN
⊗	F.C.O.	FLOOR CLEANOUT OR CLEANOUT TO GRADE
— W.C.O. —	W.C.O.	WALL CLEANOUT
— FW —	FW	FILTERED WATER
— TW —	TW	PREMIXED TEMPERATURE WATER
+	H.B.	HOSE BIBB
⊗	S.O.V.	SHUT-OFF GATE VALVE
⊗	S.O.C.	SHUT-OFF GAS COCK
⊗	C.V.	CHECK VALVE
⊗	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
⊗	B.V.	BALL VALVE
⊗	C.W.	COLD WATER BELOW GRADE
⊗	E.C.O.	EXTERIOR CLEAN OUT
⊗	MV	MIXING VALVE
⊗	BFP	BACK FLOW PREVENTER
⊗	FU	FIXTURE UNIT

**PLUMBING LEGEND**

**C**

FIXTURE	QTY.	DRAIN			COLD WATER		HOT WATER			
		F.U.	SAN WASTE	GREASE WASTE	TOTAL F.U.	F.U. CW	F.U. HW	TOTAL HW		
EX. WATER CLOSET (WC-E)	2	4	8		8	5	10			
EX. LAVATORY (LAV-E)	2	1	2		2	1.5	3.0	1.5		
HAND SINK (S-1)	1	1	3		3	1.5	1.5	1.5		
MOP SINK (S-2)	1	5	5		5	2.25	2.25	2.25		
3-COMP. SINK (S-3) *	1				3	3	3	3		
PREP SINK (S-4) *	1	2		2	2	1.5	1.5	1.5		
DROP IN SINK (S-5) *	1					1.5	1.5	1.5		
LARGE DROP IN SINK (S-6) *	1					1.5	1.5	1.5		
FLOOR DRAIN (FD-1)	4	5	20		20					
HUB DRAIN (HD-1)	1	5	5		5					
FLOOR SINK (FS-1)	6	6	6	30	36					
MISC. KITCHEN EQUIPMENT**	4					0.5	2			
<b>TOTAL</b>						<b>49</b>	<b>32</b>	<b>81</b>	<b>26.25</b>	<b>17.25</b>

BASED ON 2018 IPC (COMBINATION DRAIN & VENT)

43.50 FU = 27.7 GPM USE 1- 1/2" COLD WATER PIPE  
 17.25 FU = 18.4 GPM USE 1" HOT WATER PIPE

GREASE WASTE = 32 DFU USE 3" SANITARY (GREASE)  
 TOTAL SANITARY = 81 DFU USE 4" SANITARY

\*\* FIXTURE HAS INDIRECT WASTE TO FLOOR SINK.

**PLUMBING FIXTURE SUMMARY**

**D**

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMPD WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
(FCO) 1	FLOOR CLEANOUT								CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORRIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
(WCO) 1	WALL CLEANOUT								CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP ZURN / MODEL: FD-2210
(FD) 1	FLOOR DRAIN	3"	1-1/2"				5		PVC FLOOR DRAIN, 5" DIA. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN	JOSAM / MODEL: 30003-A WADE / MODEL: 1103
(FS) 1	FLOOR SINK	4"	2"				6		PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE.	JOSAM / MODEL: JPF54-PVC ZURN / MODEL: FD-2370-PV4-DS-F
(HD) 1	HUB DRAIN	3"	1-1/2"				5		CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.	JOSAM / MODEL: 88213 WADE / MODEL: 2453EF ZURN / MODEL: Z-1019
(GT) 1	GREASE TRAP	4"							PROVIDE 20 GPM/70 LBS GREASE INTERCEPTOR OR SIZE AS REQUIRED BY AHJ. COORDINATE SIZE AND LOCATION WITH CIVIL CONTRACTOR. DIMENSIONS: 27" X 23" X 13"	SCHIER: GB-1
(MV) 1	MIXING VALVE			1/2"	1/2"				THERMOSTATIC, 125 PSI SET POINT, BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES, SIZE PER PIPE CONNECTIONS.	HYDROTEK SERIES HBL LAWLER SERIES 61 LEONARD SERIES 210
(L) E	EXISTING LAVATORY	E	E				1	1.5	EXISTING LAVATORY TO REMAIN.	
(S) 1	HAND SINK	2"	1-1/2"			1/2"	2	1.5	STAINLESS STEEL HAND SINK, WALL HUNG, 3.5" GOOSENECK STAINLESS FAUCET W/KNEE PEDAL PER DETAIL 7 / P8.0. WITH SPLASH GUARDS	SINK MODEL: GSW #HS-1217S FAUCET MODEL: AA-410G
(S) 2	MOP SINK	3"	1-1/2"	1/2"	1/2"		2	2.25	GSW USA MOP SINK 24" x 24" x 14", FURNISHED WITH S/S WALL PANELS.	SINK MODEL: GSW USA SE2424FM FAUCET MODEL: GSW USA AA-840
(S) 3	3-COMP. DROP-IN SINK	INDIRECT		1/2"	1/2"		3		SINK, FAUCET, DRAIN & PRE-RINSE KIT	ADVANCE TABCO DI-3-10-EC-X KROWNE MODEL: 17-204WL
(S) 4	PREP SINK	2"	1-1/2"		1/2"		2	1.5	SS WORK TABLE W/SINK (PREP SINK)	MODEL: GSW USA SE15151P FAUCET MODEL: KROWNE 14-812L
(S) 5	DROP-IN HAND SINK	INDIRECT		1/2"			2	1.5	SS SINK LOCATED LEFT OF 3-COMP DROP-IN SINK.	GSW USA HS-1014-IS
(S) 6	LARGE DROP-IN SINK	INDIRECT		1/2"			2	1.5	SS SINK LOCATED RIGHT OF 3-COMP DROP-IN SINK	ADVANCE TABCO DI-1-2012
(SA) 1	SHOCK ARRESTOR			1/2"					STAINLESS STEEL CASING WITH STAINLESS STEEL BELLOWS, PRECHARGED WITH NITROGEN. SIZED PER PDI-WH201	WADE / SHOKSTOP JOSAM / MODEL: 75000 ZURN / SHOKTROL
(WC) E	EXISTING WATER CLOSET	E	E	E			5	2	EXISTING WATER CLOSET TO REMAIN	
(WH) 1	WATER HEATER			1"	1"				REPLACE EXISTING WATER HEATER WITH NEW WATER HEATER. CONTRACTOR TO VERIFY THAT THE SUPPORT FOR EXISTING HEATER IS ADEQUATE TO HANDLE NEW HEATER WEIGHT. 50 GALLON STORAGE, 41 GPH RECOVERY AT 80 DEG F, 8 KW POWER RATING, 240 V, 1 PH.	AO SMITH DEL-50
(ET) 1	EXPANSION TANK			3/4"					EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 0.9 GALLON CAPACITY. MOUNT EXPANSION TANK WITH CHECK & SHUT OFF VALVES ABOVE WATER HEATER. DO NOT INSTALL IF EXISTING IS ALREADY INSTALLED ON SITE.	AMTROL SERIES ST-5 WATTS SERIES DET WILKINS SERIES WXTF
(RCP) 1	RECIRC. PUMP				3/4"				RECIRCULATION PUMP WITH INTEGRAL AQUASTAT AND 24-HOUR TIMER. 4 GPM @ 10' HEAD. DO NOT PROVIDE IF EXISTING IS ALREADY INSTALLED ON SITE.	ARMSTRONG ASTRO SERIES

**PLUMBING SCHEDULE**

**B**

**SPECIFICATIONS**

Notes:  
 1. 4" FPT inlet/outlet with 2" and 3" plain end fittings.  
 2. Unit weight - 39 lbs. (wet weight 123 lbs.)  
 3. Maximum operating temperature: 150° F continuous  
 4. Capacities - Liquid: 10 gal.  
 Grease: 70 lbs. (8.6 gal) @20 GPM  
 Grease: 64.9 lbs. (8.9 gal) @25 GPM  
 Grease (99%): 15.85 lbs (2.2 gal) @20 GPM 99.1%  
 Solids: 1.3 gal.  
 5. Built-in flow control.  
 6. For gravity drainage applications only.  
 7. Do not use for pressure applications.  
 8. Cover placement allows full access to tank for proper maintenance.  
 9. Vent not required unless per local code.  
 10. Engineered inlet and outlet diffusers are removable to inspect/clean piping.  
 11. Integral air relief / anti-siphon.  
 12. Designed for indoor, on-floor, below-grade or low-profile under sink installations.

**ENGINEER SPECIFICATION GUIDE**  
 Schier Great Basin™ grease interceptor model # GB1 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 5/16" uniform wall thickness. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481.1, with field cut riser system, built-in flow control and three outlet options. Interceptor flow rate shall be 20 or 25 GPM. Interceptor grease capacity shall be 70 lbs. @ 20 GPM, or 64.9 lbs. @ 25 GPM. Cover shall provide water/gas tight seal and have minimum 450 lbs. load capacity.

**CERTIFIED PERFORMANCE**  
 Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code, the National Standard Plumbing Code, the National Plumbing Code of Canada, and the International Plumbing Code.

**MIAMI-DADE COUNTY** Satisfies Miami DERM 99% efficiency requirements. Product labels are permanently affixed to inside and outside of unit for easy viewing.

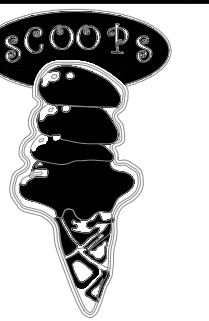
**SPECIFICATION SHEET**  
 MODEL NUMBER: **GB1** PART NUMBER: 4060-001-04  
 DESCRIPTION: GB1 GREASE INTERCEPTOR 20 GPM / 25 GPM, 4" FPT INLET/OUTLET, WITH 2" AND 3" PLAIN END FITTING ADAPTERS AND PEDESTRIAN RATED COVER  
 DWG BY: C.SINCLAIR DATE: 5/5/2022 REV: - ECO: -

**SCHIER**  
 6455 Woodland Dr  
 Shawnee, KS 66218  
 Tel: 913-851-3300  
 Fax: 913-851-3399  
 schierproducts.com

**GREASE TRAP SPEC SHEET**

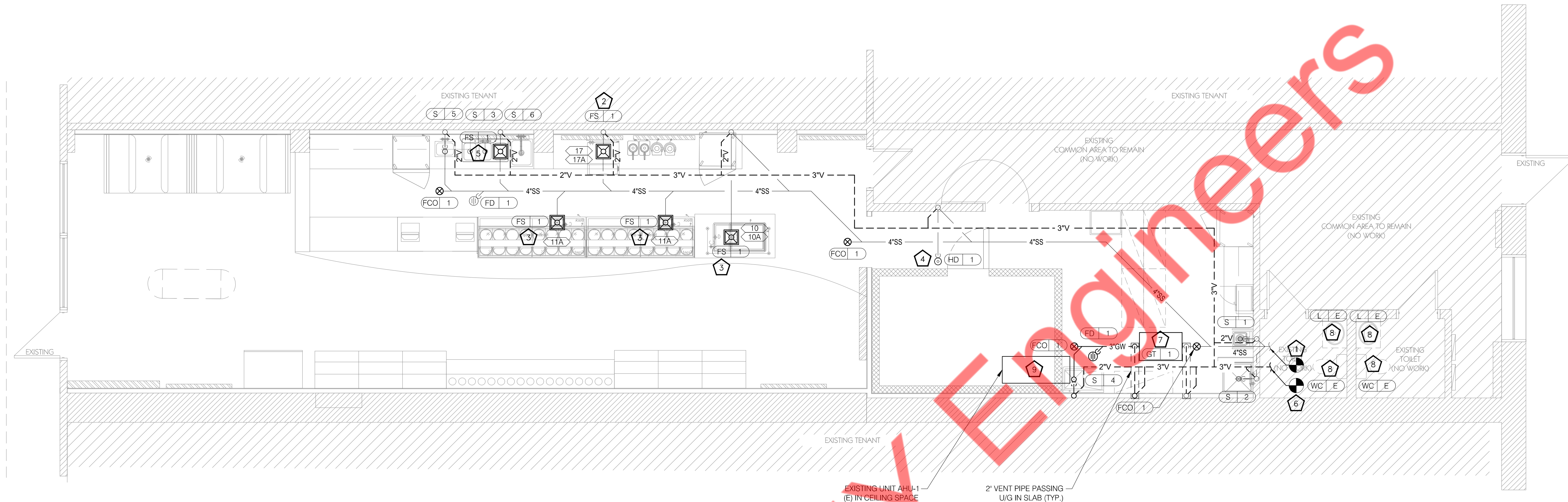
**A**

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**PLUMBING SCHEDULE & NOTES**

**P1.0**



**WASTE & VENT PLAN** 1/4"=1'-0" **A**

- A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF WATER PLY. IF ROOF PENETRATIONS ARE REQUIRED, REFER TO ROOF PLAN FOR SUITABLE LOCATIONS.
- B. REFER TO RISER DIAGRAM ON SHEET P6.0 FOR ALL WASTE AND VENT SIZES.

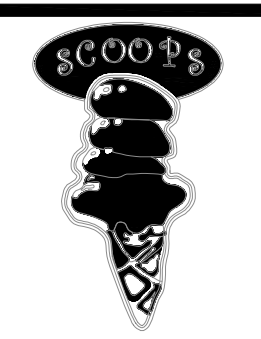
- 1 EXTEND & CONNECT NEW SANITARY LINE TO EXISTING SANITARY LINE. CONTRACTOR TO DETERMINE EXACT PIPE ROUTING IN FIELD AND CONNECT ACCORDINGLY.
- 2 PROVIDE CONDENSATE LINE AND DRAIN LINE FROM ICE MAKER (TAG #17) TO FLOOR SINK. PROVIDE AIR GAP PER LOCAL CODE.
- 3 PROVIDE WASTE LINES FROM DROP-IN FROST TOP UNIT (TAG #10) & DIPPERWELL (TAG #10A & 11A) TO FLOOR SINK. PROVIDE AIR GAP PER LOCAL CODE.
- 4 PROVIDE 3/4" PVC CONDENSATE DRAIN FROM WALK-IN FREEZER HVAC UNIT PROVIDED BY VENDOR. EXPOSED PORTION OF CONDENSATE SHALL BE COPPER. ROUTE CONDENSATE DRAIN TO HUB DRAIN. PROVIDE AIR GAP PER LOCAL CODE.
- 5 ROUTE INDIVIDUAL WASTE LINES FROM 3-COMP HAND SINK (S-5) & LARGE DROP SINK (S-6) TO FLOOR SINK. DO NOT COMBINE THE LINES. PROVIDE AIR GAP PER LOCAL CODE.
- 6 EXTEND AND CONNECT NEW 3" VENT LINE TO EXISTING VENT NETWORK. CONTRACTOR TO DETERMINE EXACT ROUTING IN FIELD AND CONNECT ACCORDINGLY.
- 7 PROVIDE FLOOR-RECESSED GREASE TRAP (GT-1) WITH METAL COVER. REFER SHEET P1.0 FOR SCHEDULE. PROVIDE VENTING ON INLET & OUTLET. REFER DETAIL-2 ON SHEET P6.0 FOR INSTALLATION DETAILS. INSTALL GREASE TRAP IN ACCORDANCE WITH LOCAL CODES & MANUFACTURER RECOMMENDATIONS.
- 8 EXISTING LAVATORY FIXTURES WITH EXISTING SANITARY & VENT CONNECTIONS TO REMAIN.
- 9 CONTRACTOR TO CHECK ROUTING OF CONDENSATE DRAIN PIPES FROM EXISTING AC UNIT AHU-1(E). IF CONDENSATE IS NOT DRAINING TO AN APPROVED PLACE OF DISPOSAL (SEE 2018 GEORGIA MECHANICAL CODE SECTION 307.2.1), ROUTE CONDENSATE PIPES IN CEILING AND DROP DOWN TO NEARBY MOP SINK (S-2) WITH APPROVED AIR GAP.

**WASTE & VENT PLAN NOTES** **C**

**KEY NOTES** **B**

Property of NY Engineers

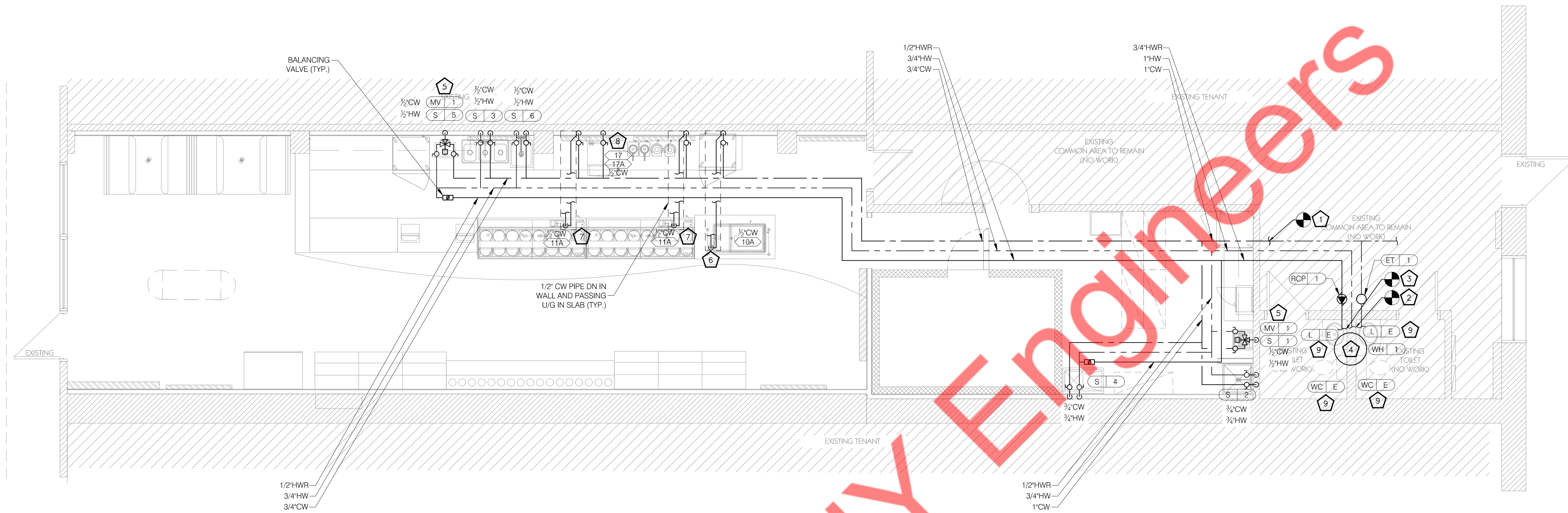
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**SANITARY AND VENT PLAN**

**P2.0**

PLOT DATE: 2/18/2025



**WATER PLAN** 1/4"=1'-0" **A**

- AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.4, PIPING FROM A WATER HEATER TO THE TERMINATION OF HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE OF MINIMUM PIPE INSULATION THICKNESS.

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU-IN./ (H FT <sup>2</sup> °F)	MEAN RATING TEMPERATURE, °F	<1	1 to < 1½	1½ to < 4	4 to < 8	≥8
141-200	0.25-0.29	125	1.5	1.5	2	2	2
105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0

- HOT WATER SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.5. THE HOT WATER VOLUME FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER MAXIMUM PIPING LENGTH TABLE.
- AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.6, AUTOMATIC CONTROLS SHALL BE INSTALLED THAT LIMITS THE OPERATION OF A RE-CIRCULATING PUMP AND THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE.
- AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.6, PUMPS SHALL HAVE CONTROLS THAT COMPLY WITH BOTH OF THE FOLLOWING:
  - THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE.
  - THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).
- AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.3, WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NON RE-CIRCULATING SYSTEM SHALL BE PROVIDED WITH HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH EQUIPMENT.

**ENERGY CONSERVATION NOTES** **D**

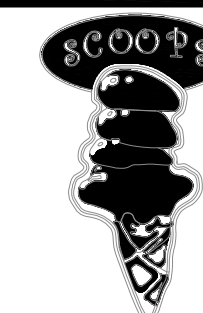
- WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.
- NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS", REFER TO ROOF PLAN FOR LOCATIONS.
- REFER TO SHEET P6.0 FOR WATER ISOMETRIC DRAWINGS.
- REFER TO RISER DIAGRAM ON SHEET P6.0 FOR ALL WATER SUPPLY PIPING SIZES.
- PROVIDE ASSE APPROVED BACKFLOW PREVENTION TO ANY ADDITIONAL DIRECT CONNECTIONS TO THE WATER LINES.
- NO NEW OR EXISTING GAS EQUIPMENT IN THE PROJECT SPACE.

**WATER PLAN NOTES** **C**

- EXTEND & CONNECT NEW 1" COLD WATER SUPPLY DISTRIBUTION LINE TO EXISTING WATER LINE WITH EXISTING WATER METER & BACKFLOW PREVENTER. CONTRACTOR TO DETERMINE EXACT ROUTING OF EXISTING WATER NETWORK ON SITE AND CONNECT ACCORDINGLY.
- ROUTE NEW 1" HOT WATER LINE TO EXISTING HOT WATER NETWORK. CONTRACTOR TO DETERMINE EXACT ROUTING OF EXISTING WATER NETWORK ON SITE AND CONNECT ACCORDINGLY.
- ROUTE 3/4" HOT WATER RETURN LINE TO EXISTING HOT WATER RETURN (HWR) LINE NETWORK. IF THERE IS NO EXISTING HWR LINE, PROVIDE A NEW HWR LINE ALL THE WAY TO NEW WATER HEATER. PROVIDE RE-CIRCULATION PUMP (RCP-1) AT THE NEW HOT WATER HEATER IF EXISTING IS NOT ALREADY PROVIDED. SEE DETAIL #1 ON SHEET P6.0 FOR INSTALLATION DETAILS.
- REPLACE EXISTING HOT WATER HEATER WITH NEW WATER HEATER (WH-1). CONNECT NEW WATER HEATER TO EXISTING DOMESTIC WATER CONNECTIONS. PROVIDE HOT WATER OUTLET WITH THERMOSTATIC MIXING VALVE COMPLIANT WITH ASSE 1017. LIMIT TEMPERATURE TO 120 DEG F. CONTRACTOR TO VERIFY THAT THE SUPPORT FOR EXISTING WATER HEATER CAN TAKE THE WEIGHT OF THE NEW WATER HEATER. REPLACE IF OTHERWISE. INSTALL EXISTING EXPANSION TANK IF IN OPERABLE CONDITION. OTHERWISE PROVIDE NEW EXPANSION TANK ET-1. SEE SHEET P1.0 FOR WATER HEATER SCHEDULE AND DETAIL #1 ON SHEET P6.0 FOR INSTALLATION DETAILS.
- TEMPERED WATER LINE DOWN IN WALL TO HAND SINKS & LAVATORIES. LIMIT TEMPERATURE TO 105 DEG F.
- 1/2" COLD WATER LINE DOWN IN WALL, RUN U/G IN SLAB & RISE TO DIPPERWELL (TAG #10A). PROVIDE CW LINE WITH BACKFLOW PREVENTER COMPLIANT TO ASSE 1022.
- 1/2" COLD WATER LINE DOWN IN WALL, RUN U/G IN SLAB & RISE TO DIPPERWELL (TAG #11A). PROVIDE CW LINE WITH BACKFLOW PREVENTER COMPLIANT TO ASSE 1022.
- 1/2" COLD WATER LINE DOWN IN WALL TO ICE MAKER (TAG #E4D). PROVIDE A FILTER TO THE ICE MAKER (TAG #17). CONNECT CW LINE THROUGH THE WATER FILTER (TAG #17A). ALSO PROVIDE CW LINE BACKFLOW PREVENTER COMPLIANT WITH ASSE 1012.
- EXISTING LAVATORY FIXTURES WITH EXISTING PLUMBING CONNECTIONS TO REMAIN.

**KEY NOTES** **B**

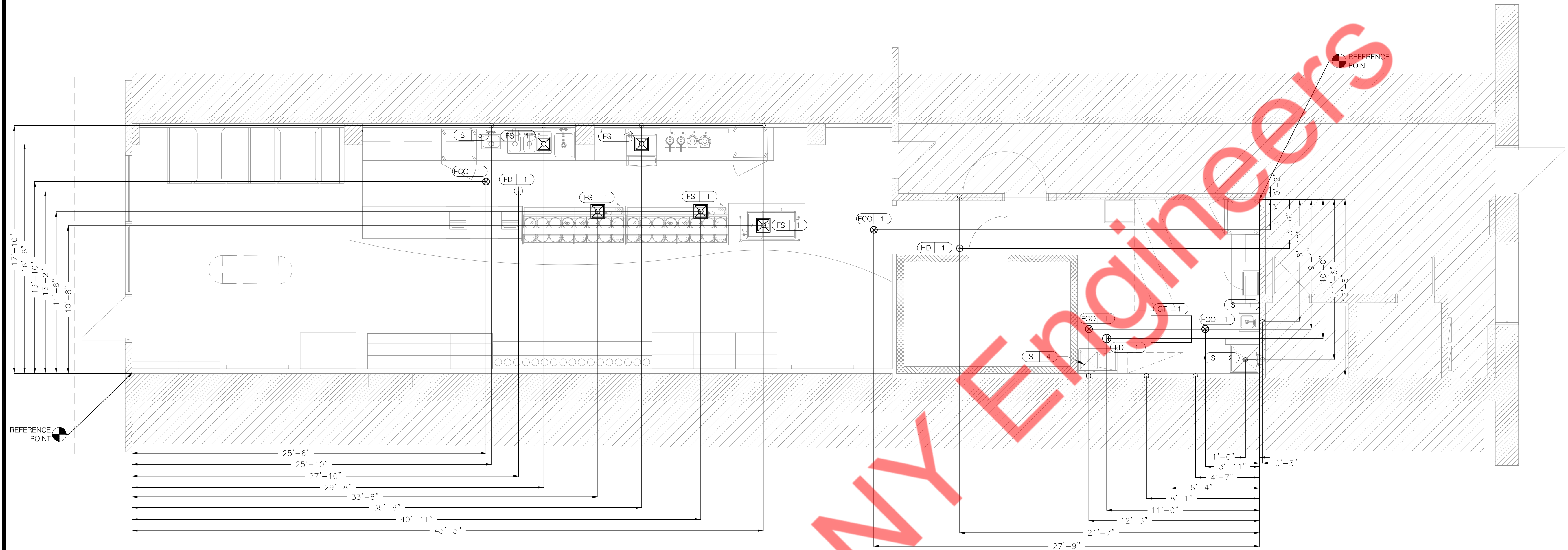
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**WATER PLAN**

**P3.0**

NOTE: DIMENSIONS FOR EQUIPMENT ROUGH-IN PLACEMENT ARE SHOWN AS A COURTESY AND ARE CONSIDERED FOR REFERENCE ONLY. ACTUAL DIMENSIONS FOR ROUGH-IN SHALL BE VERIFIED AND COORDINATED WITH ARCHITECTURAL DRAWINGS, EQUIPMENT VENDORS AND ALL OTHER TRADES PRIOR TO ROUGH-IN. ENGINEER IS NOT RESPONSIBLE FOR KITCHEN EQUIPMENT PLACEMENT.



**PLUMBING ROUGH-IN PLAN** 1/4"=1'-0" **A**

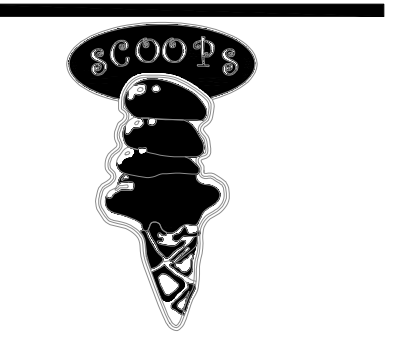
- ⊕ FLOOR DRAIN
- ⊗ FLOOR SINK
- ⊙ HUB DRAIN
- ⊗ FLOOR CLEANOUT
- WALL CLEANOUT

**SYMBOL LEGEND** **C**

- GENERAL NOTES:**
- ALL DIMENSIONS TO FLOOR SINKS, FLOOR DRAINS AND HUB DRAINS ARE TO CENTER OF FIXTURE.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THIS DATA ON THE LOCATION OF ALL PLUMBING ROUGH-INS WITH INFORMATION PROVIDED ON THE ARCH AND STRUCTURAL DRAWINGS, AND THE EQUIPMENT ACTUALLY SUPPLIED AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS INDICATED HEREIN.

**PLUMBING ROUGH-IN NOTES** **B**

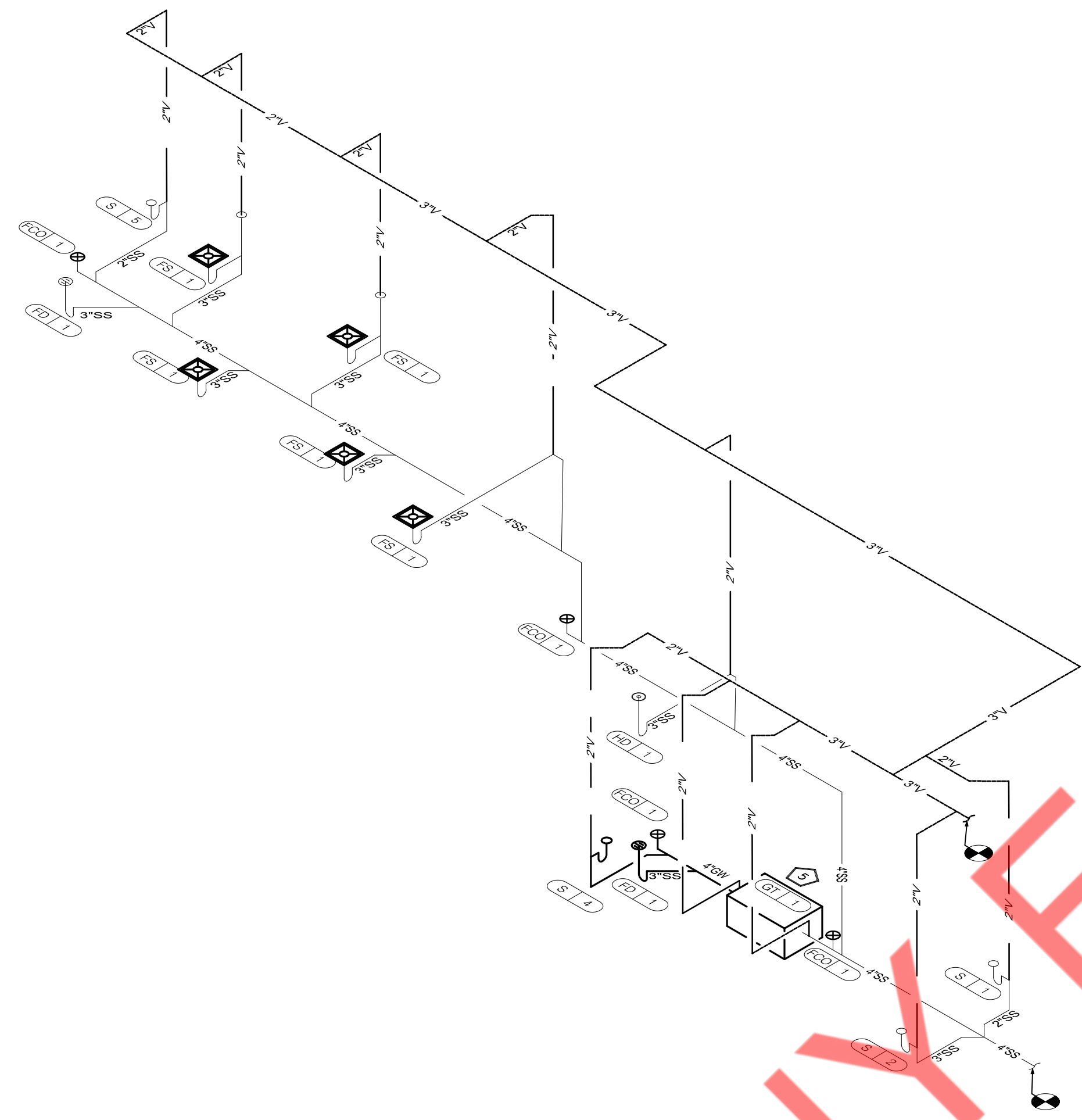
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**ROUGH-IN FLOOR PLAN**

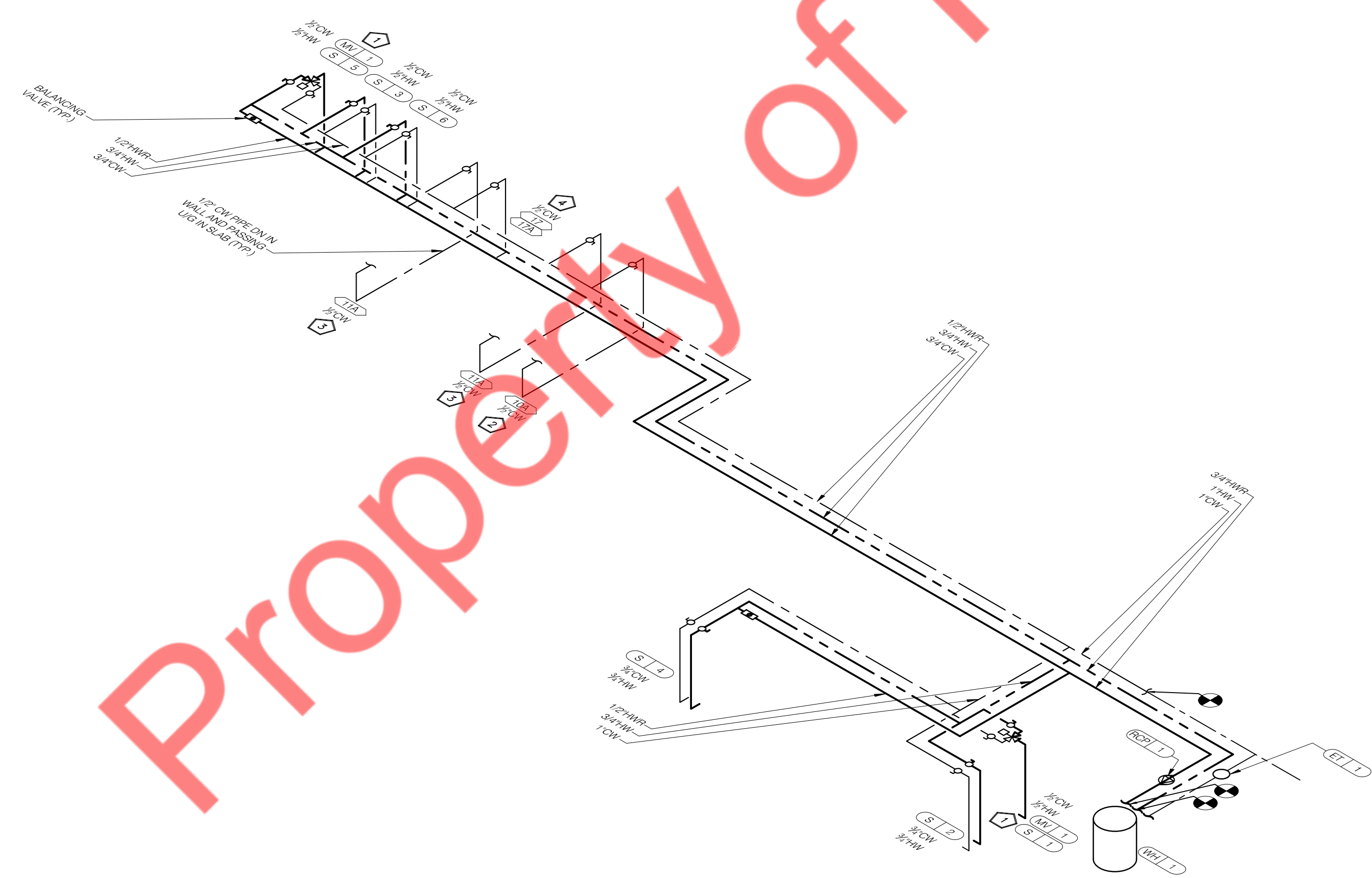
**P4.0**

PLOT DATE: 2/18/2025



**WASTE / VENT ISOMETRIC** N.T.S. **A**

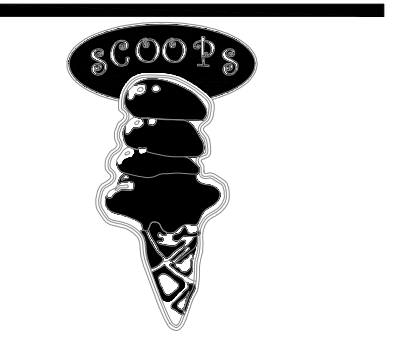
- 1 1/2" TEMPERED WATER LINE DOWN IN WALL TO HAND SINKS & LAVATORIES. LIMIT TEMPERATURE TO 105 DEG. F.
- 2 1/2" COLD WATER LINE DOWN IN WALL, RUN U/G IN SLAB & RISE TO DIPPERWELL (TAG #10A). PROVIDE CW LINE WITH BACKFLOW PREVENTER COMPLIANT TO ASSE 1022.
- 3 1/2" COLD WATER LINE DOWN IN WALL, RUN U/G IN SLAB & RISE TO DIPPERWELL (TAG #11A). PROVIDE CW LINE WITH BACKFLOW PREVENTER COMPLIANT TO ASSE 1022.
- 4 1/2" COLD WATER LINE DOWN IN WALL TO ICE MAKER (TAG #17). CONNECT CW LINE THROUGH THE WATER FILTER (TAG #17A). ALSO PROVIDE CW LINE BACKFLOW PREVENTER COMPLIANT WITH ASSE 1012.
- 5 PROVIDE FLOOR-RECESSED GREASE TRAP (GT-1) WITH METAL COVER. REFER SHEET P1.0 FOR SCHEDULE. PROVIDE VENTING ON INLET & OUTLET. REFER DETAIL-2 ON SHEET P6.0 FOR INSTALLATION DETAILS. INSTALL GREASE TRAP IN ACCORDANCE WITH LOCAL CODES & MANUFACTURER RECOMMENDATIONS.



**HOT / COLD WATER ISOMETRIC** N.T.S. **B**

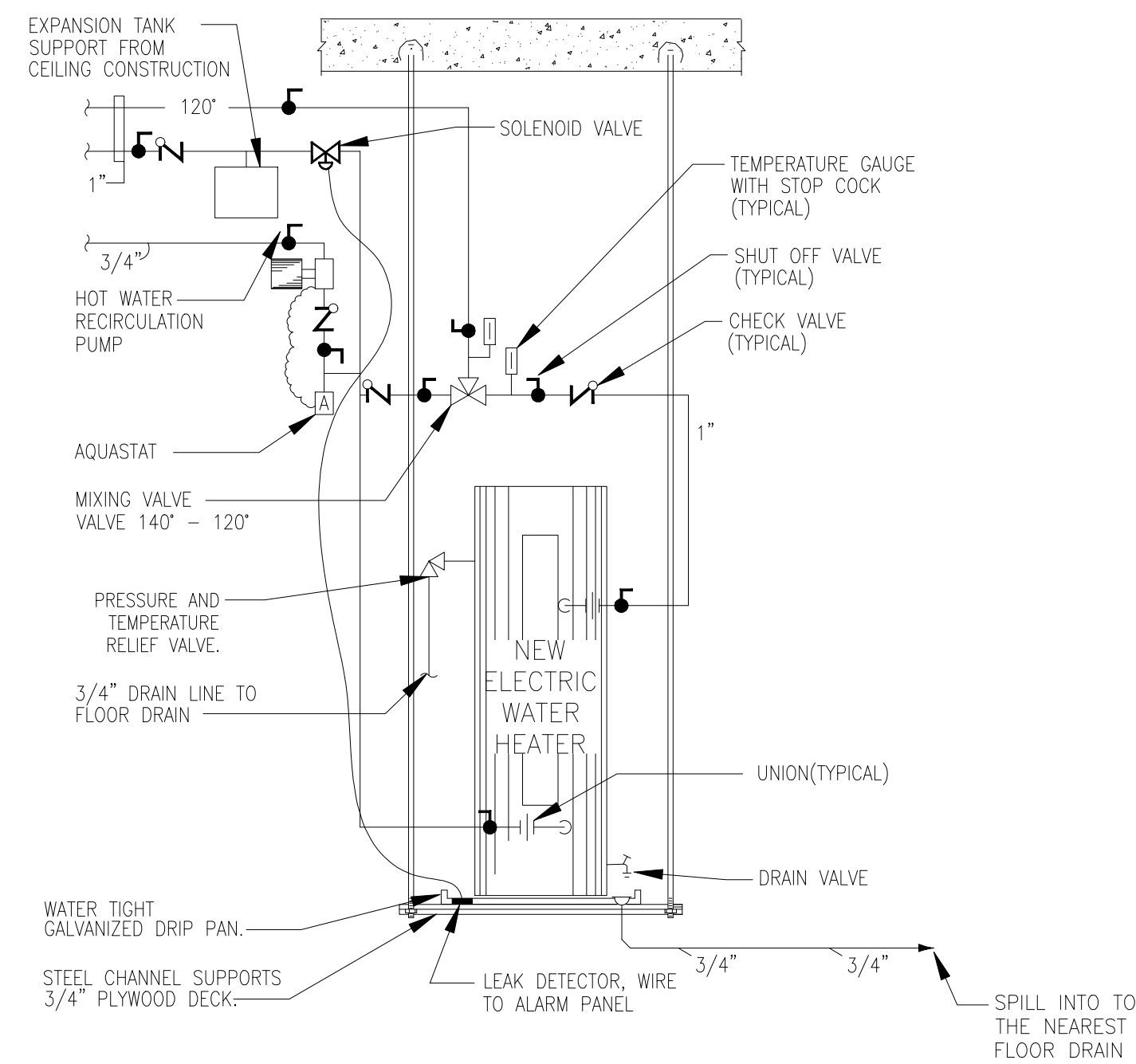
**KEYNOTES** **C**

SCOOPS



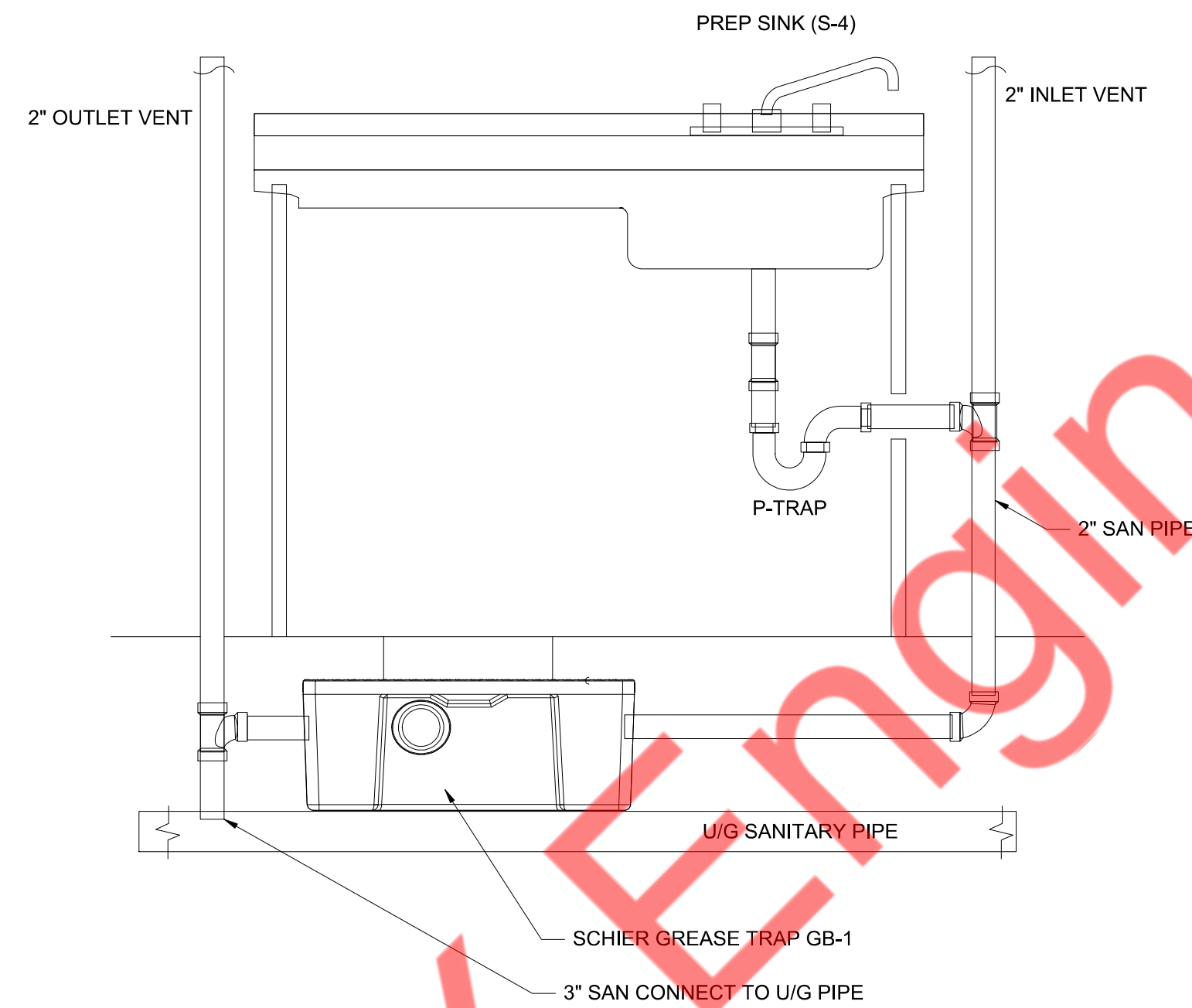
**RISER  
DIAGRAMS**

**P5.0**



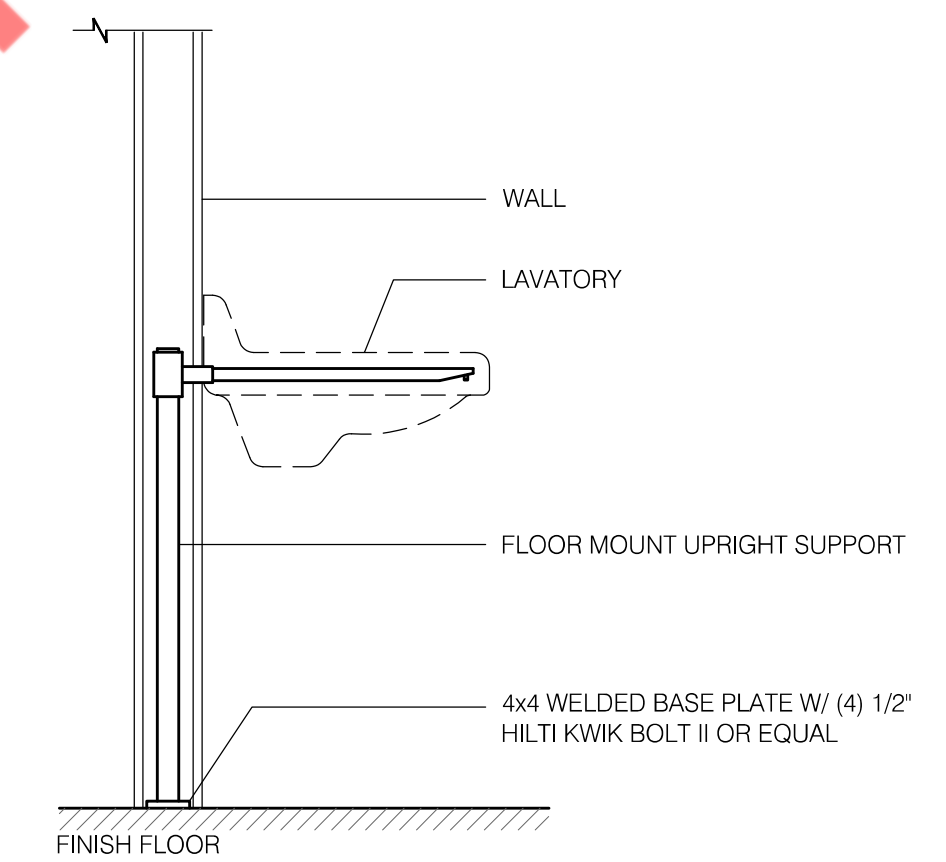
**WATER HEATER DETAIL**

**1**



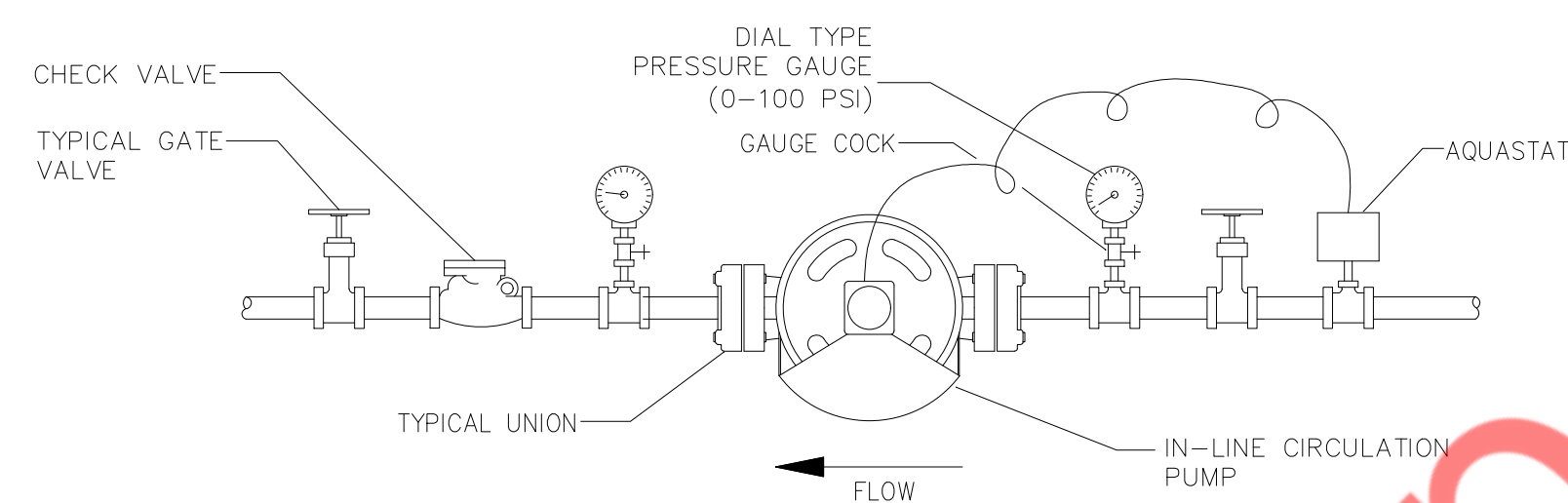
**GREASE INTERCEPTOR DETAIL**

**2**



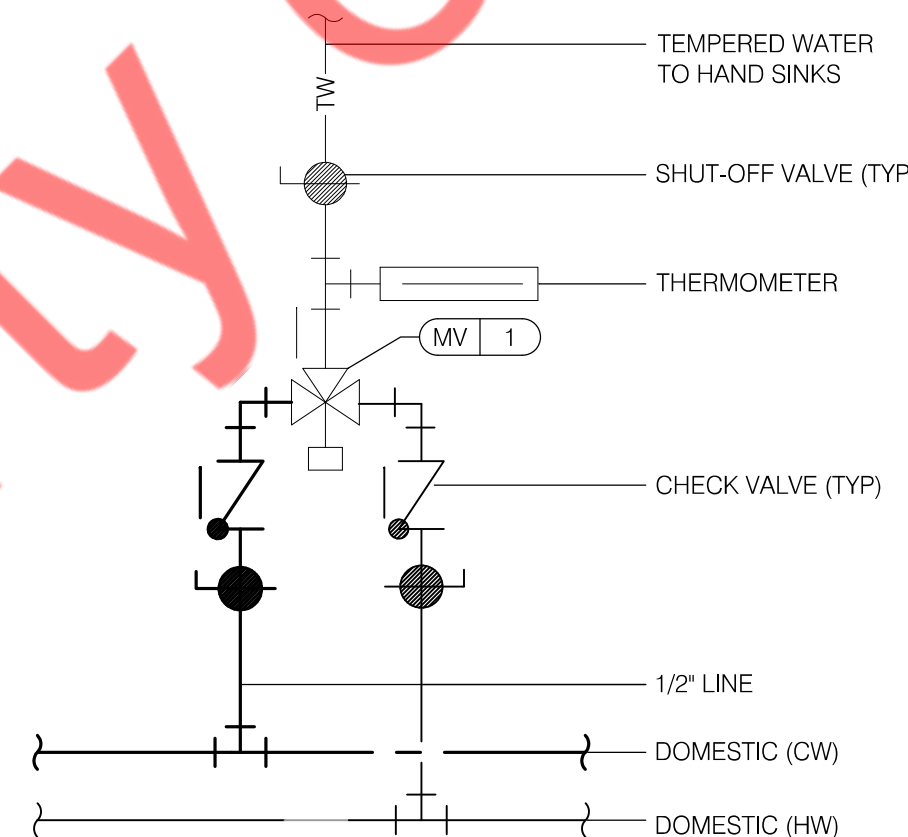
**LAVATORY SUPPORT** N.T.S.

**3**



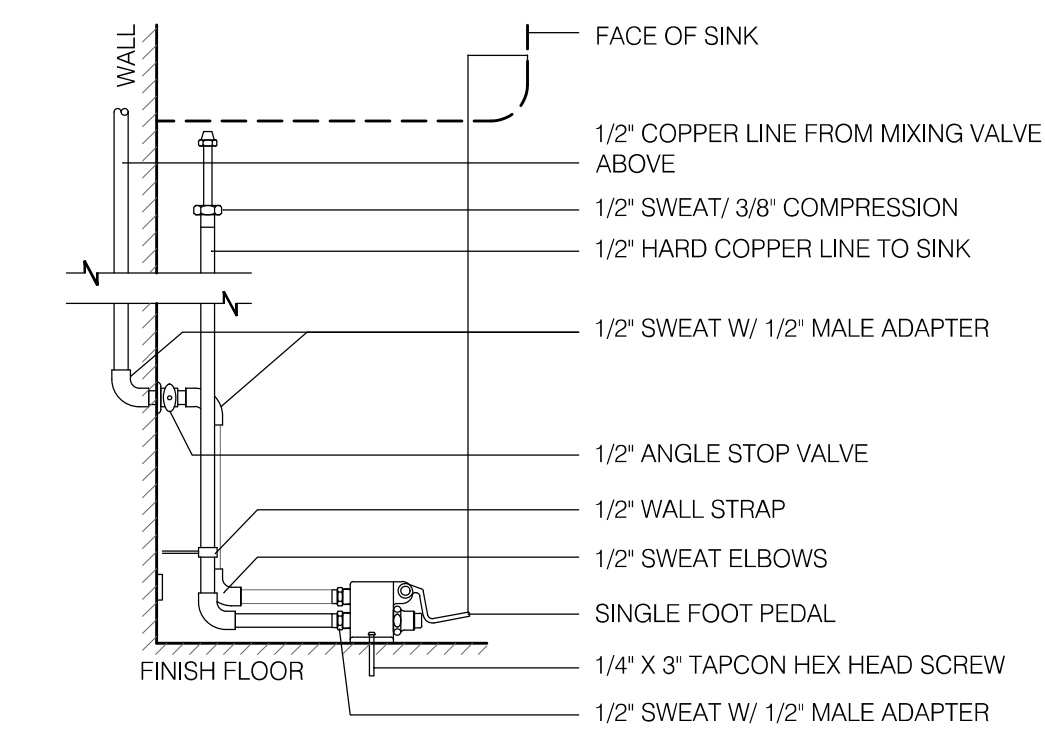
**RE-CIRCULATION PUMP DETAIL**

**4**



**TEMPERING VALVE** N.T.S.

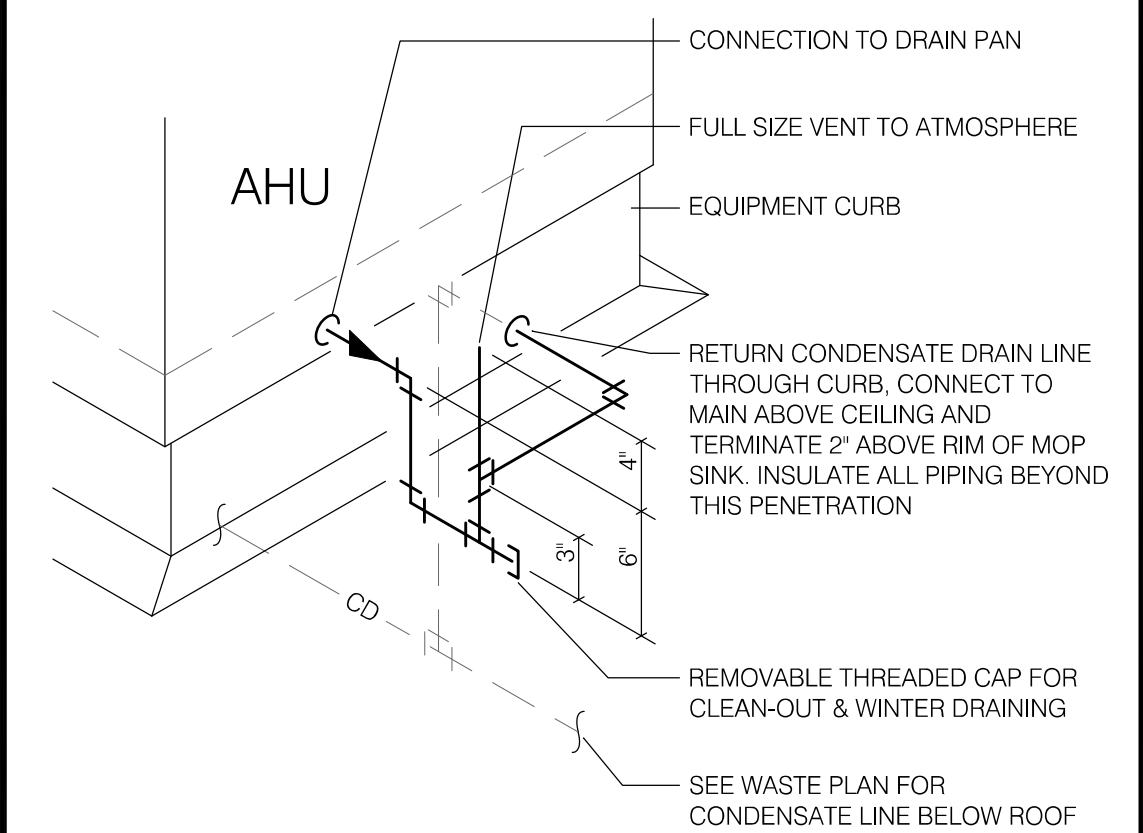
**5**



NOTE:  
1/2" PIPING SHALL BE HARD COPPER LINE, OR BRAIDED STAINLESS HOSE. SOFT COPPER IS NOT ACCEPTABLE.

**FOOT PEDAL** N.T.S.

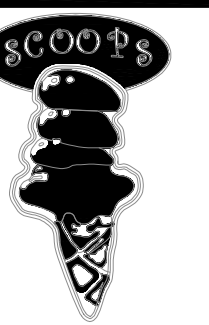
**6**



**AHU CONDENSATE** N.T.S.

**7**

SCOOPS



**PLUMBING  
DETAILS**

**P6.0**

**COMcheck Software Version COMcheckWeb**  
**Mechanical Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
 Project Title: Scoops Dalton  
 Location: Dalton (Whitfield), Georgia  
 Climate Zone: 4a  
 Project Type: Alteration

Construction Site: 238 N. Hamilton St, Suite #1 Dalton, Georgia 30720  
 Owner/Agent:  
 Designer/Contractor: MICHAEL TOBIAS NY ENGINEERS 382 NE 191ST STREET SUITE 49674 MIAMI, Florida 33179

**Mechanical Systems List**

**Quantity System Type & Description**

- 1 Water Heater WH-1:  
 Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump  
 No minimum efficiency requirement applies

**Mechanical Compliance Statement**

*Compliance Statement:* The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MICHAEL TOBIAS  
 Name - Title Signature Date 02/18/2025

Project Title: Scoops Dalton Report date: 02/18/25  
 Data filename: Page 1 of 5

**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 [PR3] <sup>1</sup>	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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: Scoops Dalton Report date: 02/18/25  
 Data filename: Page 2 of 5

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] <sup>1</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.1, C404.6.2 [PL3] <sup>1</sup>	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.3 [PL7] <sup>1</sup>	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C404.7 [PL8] <sup>1</sup>	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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: Scoops Dalton Report date: 02/18/25  
 Data filename: Page 3 of 5

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME4] <sup>1</sup>	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.6.2 [ME115] <sup>2</sup>	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.2.8 [ME116] <sup>1</sup>	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C408.2.2.1 [ME53] <sup>1</sup>	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C403.5, C403.5.1, C403.5.2 [ME123] <sup>1</sup>	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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: Scoops Dalton Report date: 02/18/25  
 Data filename: Page 4 of 5

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C404.3 [F11] <sup>1</sup>	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C404.4 [F125] <sup>1</sup>	All piping insulated in accordance with section details and Table C403.2.10.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.1 [F12] <sup>1</sup>	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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: Scoops Dalton Report date: 02/18/25  
 Data filename: Page 5 of 5

SCOOPS

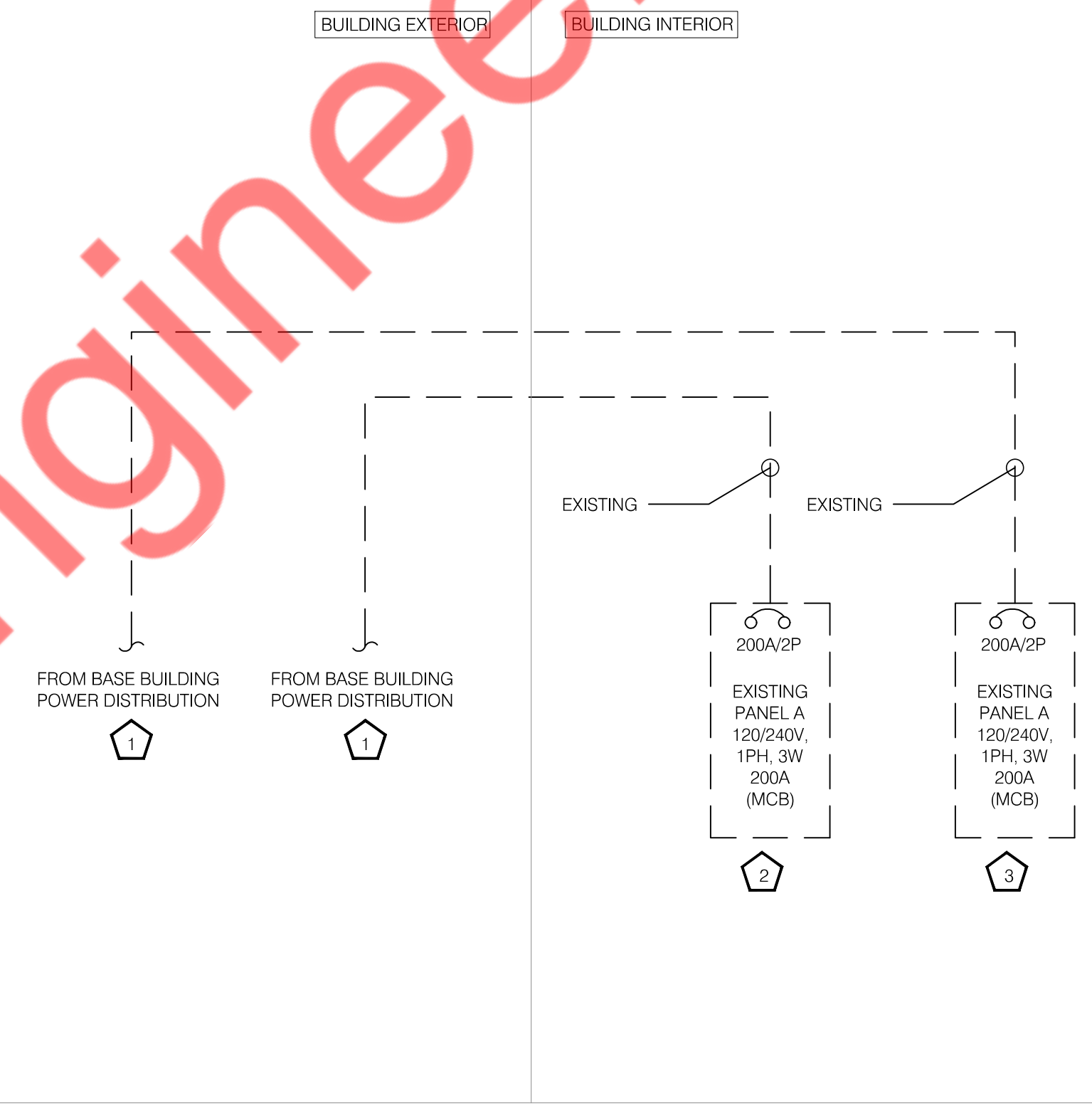
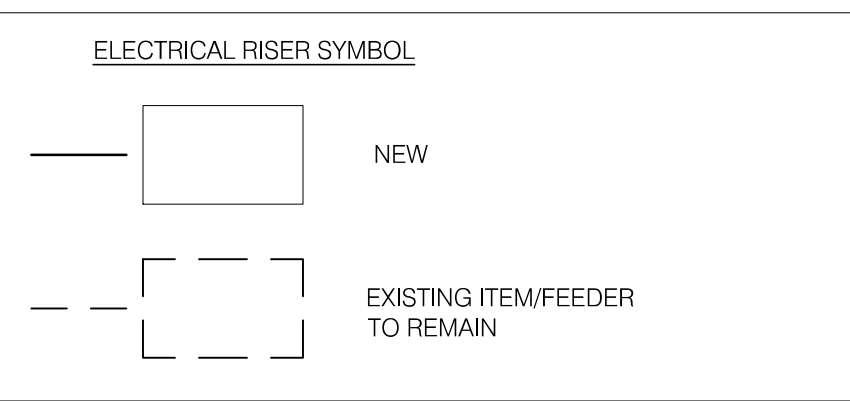


**PLUMBING  
 ENERGY  
 COMPLIANCE**

**P7.0**

PLOT DATE: 2/18/2025

**DESIGN NOTE:**  
 ALL EQUIPMENT CONNECTIONS AND LOADS ARE BASED ON THE PROTOTYPICAL COMBINATION OF GAS AND ELECTRIC EQUIPMENT. THEREFORE, THE DRAWINGS REFLECT THE MINIMUM 100A, 120/240V, 3PH ELECTRICAL SERVICE SIZE REQUIRED.  
 CURRENT PROTOTYPICAL CONNECTED LOAD IS CALCULATED AT 74.30 AMPS WHILE DEMAND AMPS CALCULATE AT 61.94 AMPS. MAXIMUM DEMAND IS 80A, LEAVING 18.06 A AVAILABLE TO MAINTAIN 80% LOADING.



FLOOR LEVEL



NOT USED

B

PROPOSED SINGLE LINE DIAGRAM

A

	EXIT SIGN (WALL MOUNTED)		DUPLEX ISOLATED GROUND OUTLET (GFCI BREAKER PROTECTED WHERE REQUIRED IN KITCHEN.)
	UNIVERSAL MOUNT EXIT SIGN WHITE FINISH RED LETTERS		DOUBLE DUPLEX ISOLATED GROUND OUTLET WHERE REQUIRED IN KITCHEN.)
	2 HEADED EM LIGHT WHITE FINISH		DEDICATED ISOLATED GROUND (GFCI BREAKER PROTECTED WHERE REQUIRED IN KITCHEN.)
	CEILING MOUNTED SPEAKER		SPECIAL PURPOSE OUTLET
	CEILING MOUNTED OCCUPANCY SENSOR		FLOOR MOUNTED DUPLEX RECEPTACLE (GFCI BREAKER PROTECTED WHERE REQUIRED IN KITCHEN.)
	DIMMER SWITCH		CEILING SPECIAL PURPOSE OUTLET
	WALL MOUNTED OCCUPANCY SENSOR		ELECTRICAL PANEL. SEE SHEET E2.1 FOR PANEL SCHED.
	WALL MOUNTED SPEAKER		
	JUNCTION BOX		
	TELEPHONE OUTLET		
	DEDICATED GROUNDED OUTLET (GFCI BREAKER PROTECTED WHERE REQUIRED IN KITCHEN.)		
	DUPLEX GROUNDED OUTLET (GFCI BREAKER PROTECTED WHERE REQUIRED IN KITCHEN.)		
	DOUBLE DUPLEX GROUNDED OUTLET (GFCI BREAKER PROTECTED WHERE REQUIRED IN KITCHEN.)		
	GFCI PROTECTED DUPLEX OUTLET (GFCI BREAKER PROTECTED)		
	GFCI PROTECTED DEDICATED OUTLET (GFCI BREAKER PROTECTED)		
	CEILING DUPLEX OUTLET (GFCI BREAKER PROTECTED WHERE REQUIRED IN KITCHEN.)		

	HOLD UP EMERGENCY BUTTON
	ELECTRICAL MOTOR
	DUCT MOUNTED SMOKE DETECTOR
	CONNECTION TO EQUIPMENT
	FUSIBLE DISCONNECT SWITCH WITH STARTER
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	PHOTOCELL
	RAIN SENSOR
	FLUORESCENT WALL MOUNT FIXTURE
	EMERGENCY LIGHT
	SINGLE POLE, SINGLE THROW TOGGLE SWITCH
	LOW VOLTAGE TRANSFORMER
	SINGLE POLE, SINGLE THROW TOGGLE SWITCH W/ PILOT LIGHT
	RELAY
	CONDUIT RUN, UNDERGROUND
	SMOKE DETECTOR
	SECURITY STROBE
	EXTERIOR WALL FIXTURE
	EXTERIOR DECORATIVE WALL FIXTURE
	EXTERIOR DECORATIVE WALL FIXTURE
	WEATHERPROOF GROUND FAULT

1. THERE SHALL BE 10K A.I.C. RATED CIRCUIT BREAKERS AT PANELS "A" BASED ON THE MAXIMUM FAULT CURRENT AS DETERMINED AT THE SERVICE ENTRANCE BY THE UTILITY. NOTIFY ENGINEER WHERE LOCAL CONDITIONS REQUIRE ALTERNATE LOCATIONS OR SINGLE POINT DISCONNECT.
2. E.C. TO COORDINATE WITH OWNER/LANDLORD AND VERIFY SCOPE OF WORKS DETAILS REGARDING OWNER SUPPLIED AND/OR INSTALLED PRODUCTS FOR ELECTRICAL SYSTEM PRIOR TO BIDDING AND ROUGH-IN.
3. IF UTILITY COMPANY PROPOSES A SERVICE DIFFERENT FROM THAT ILLUSTRATED, CONTACT THE ENGINEER FOR A DECISION BEFORE PROCEEDING. E.C. SHALL COORDINATE AND VERIFY AVAILABLE SHORT CIRCUIT CURRENT WITH LOCAL UTILITY IN FIELD AND PROVIDE CIRCUIT BREAKERS W/ SUFFICIENT INTERRUPTING CAPACITY.
4. ELECTRICAL METER SHALL BE PROVIDED BY UTILITY. COORDINATE WITH LOCAL UTILITY COMPANY, THE LOCAL ELECTRICAL INSPECTOR AND THE NATIONAL ELECTRICAL CODE TO MEET ALL REQUIREMENTS BEFORE INSTALLATION.
5. ALL WIRING SHOWN SHALL BE COPPER TYPE "THHN/THWN" UNLESS NOTED OTHERWISE AND EXCEPT FEEDERS FROM UTILITY TRANSFORMER TO SWITCH BOARD MAY BE ALUMINUM.
6. ALL INSTALLATION SHALL MEET THE REQUIREMENTS OF RELEVANT NATIONAL, STATE AND LOCAL CODES AS REQUIRED BY AUTHORITY HAVING JURISDICTION PER PROJECT LOCATION.
7. ABOVE RISER DIAGRAM IS FOR REFERENCE PURPOSE ONLY.
8. E.C. SHALL VERIFY THE INCOMING SERVICE AMPERAGE, VOLTAGE, NUMBER OF PHASES, WIRE SIZE AND DISTRIBUTION IN FIELD.
9. E.C. SHALL VERIFY THE EXACT POWER DISTRIBUTION & INCOMING CONNECTION TO ALL PANELS IN FIELD. INFORM ENGINEER FOR ANY DISCREPANCY FOUND.
10. E.C. SHALL ENSURE THAT THE VOLTAGE DROP IS WITHIN THE LIMIT AS MENTIONED BY THE LOCAL AHJ REQUIREMENTS.
11. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES/DEVICES/MATERIAL AS REQUIRED FOR PROPER FUNCTIONING OF ELECTRICAL SYSTEM AS PER CODES AND LOCAL AHJ REQUIREMENTS.

1. EXISTING 120/240V, 1-PH, 3W ELECTRICAL SERVICE TO PROJECT SPACE SHALL REMAIN. E.C SHALL FIELD VERIFY THE EXACT SERVICE RATING AND POWER DISTRIBUTION BEFORE COMMENCING ANY WORK. REPORT ENGINEER ON RECORD FOR ANY DISCREPANCIES.
2. EXISTING 200A (MCB) 120/240V, 1-PHASE, 3W ELECTRICAL PANEL "A". E.C SHALL VERIFY THE EXACT LOCATION AND OPERABLE CONDITION OF THE PANEL IN FIELD. PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
3. EXISTING 200A (MCB) 120/240V, 1-PHASE, 3W ELECTRICAL PANEL "B". E.C SHALL VERIFY THE EXACT LOCATION AND OPERABLE CONDITION OF THE PANEL IN FIELD. PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

ELECTRICAL LEGEND

E

GENERAL NOTES

D

KEY NOTES

C

SCOOPS



**RISER  
 DIAGRAM AND  
 LEGEND**

**E2.0**

PLOT DATE: 18-02-2025

PANEL: A(E)												MOUNTING:		SURFACE	
120/240 VOLTS, 1 PHASE, 3 WIRE												LOCATION:		EXISTING	
MAIN CB 200A MLO: NA BUS: EXISTING MIN, FED FROM: EXISTING															
NOTE: L : LIGHTING, H : HVAC LOAD, E: EQUIPMENT, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)															
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.		
						A	B								
1	30	#6_MICROWAVE OVEN	E	1.61	2#12, #12G, 3/4"	1.86		2#12, #12G, 3/4"	0.25	E	#8_REACH-IN-REFRIGERATOR	20	2		
3	20	#12_UC REFRIGERATOR	E	0.28	2#12, #12G, 3/4"		0.78	2#12, #12G, 3/4"	0.50	E	#10_FROSTOP	20	4		
5	20	#12A_UC REFRIGERATOR	E	0.28	2#12, #12G, 3/4"	1.10		2#12, #12G, 3/4"	0.83	E	#11_DISPLAY CASE	20	6		
7	20	#16_FOOD TOPPING WARMER	E	0.52	2#12, #12G, 3/4"		2.32	2#12, #12G, 3/4"	1.80	E	#15_BLENDOR BAR	20	8		
9	20	#17_ICE MAKER WITH BIN	E	0.72	2#12, #12G, 3/4"	2.52		2#12, #12G, 3/4"	1.80	E	#15_BLENDOR BAR	20	10		
11	30	SPARE					0.83	2#12, #12G, 3/4"	0.83	E	#11_DISPLAY CASE	20	12		
13	20	KITCHEN RECEPTACLE	R	0.36	2#12, #12G, 3/4"	1.16		2#12, #12G, 3/4"	0.80	E	CHOCOLATE CASE	20	14		
15	20	GENARL RECEPTACLE	R	1.08	2#12, #12G, 3/4"		5.08	2#12, #12G, 3/4"	4.00	O	WATER HEATER	2P-50	16		
17	20	CASH REGISTER	R	0.36	2#12, #12G, 3/4"	4.36		2#8, #10G, 3/4"	4.00	O	WATER HEATER	2P-50	18		
19	2P-60	EXISTING 1	O	3.64	EXISTING		3.64				SPARE	30	20		
21	2P-60	EXISTING 1	O	3.64	EXISTING	4.00		2#12, #12G, 3/4"	0.36	R	ROOF RECEPTACLE	20	22		
23	2P-30	SPARE					0.00				SPACE		24		
25		SPACE					0.00				SPACE		26		
27		SPACE					0.00				SPACE		28		
29		SPACE					0.00				SPACE		30		
31		SPACE					0.00				SPACE		32		
33		SPACE				3.64		EXISTING	3.64	O	EXISTING 1	2P-60	34		
35		SPACE				3.64		EXISTING	3.64	O	EXISTING 1	2P-60	36		
37	2P-60	EXISTING 1	O	3.64	EXISTING	7.28		EXISTING	3.64	O	EXISTING 1	2P-60	38		
39	2P-60	EXISTING 1	O	3.64	EXISTING	7.28		EXISTING	3.64	O	EXISTING 1	2P-60	40		
TOTAL CONNECTED LOAD (KVA)						25.92	23.57								

PANEL: B(E)												MOUNTING:		SURFACE	
120/240 VOLTS, 1 PHASE, 3 WIRE												LOCATION:		EXISTING	
MAIN CB 200A MLO: NA BUS: EXISTING MIN, FED FROM: EXISTING															
NOTE: L : LIGHTING, H : HVAC LOAD, E: EQUIPMENT, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)															
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.		
						A	B								
1	2P-50	EXISTING 1	O	2.39	EXISTING	3.21		2#12, #12G, 3/4"	0.82	L	LIGHTING	20	2		
3			O	2.39	EXISTING		2.85	2#12, #12G, 3/4"	0.46	L	LIGHTING	20	4		
5	2P-30	SPARE				0.20		2#12, #12G, 3/4"	0.20	L	LIGHTING	20	6		
7							1.50	2#12, #12G, 3/4"	1.50	L	EXTERIOR BUILDING SIGNAGE	20	8		
9	20	SHOW WINDOW RECEPTACLE	L	1.80	2#12, #12G, 3/4"	2.30		2#12, #12G, 3/4"	0.50	L	TIME CLOCK	20	10		
11	30	SPARE					0.50	2#12, #12G, 3/4"	0.50	O	RCP-1	20	12		
13	20	#16_FOOD TOPPING WARMER	E	0.52	2#12, #12G, 3/4"	1.06		2#12, #12G, 3/4"	0.54	R	GENERAL RECEPTACLE	20	14		
15	20	WALK IN FREEZER LIGHTS	L	0.20	2#12, #12G, 3/4"		0.44	2#12, #12G, 3/4"	0.24	O	WALK IN FREEZER MISC	20	16		
17	20	GENERAL RECEPTACLE	R	0.54	2#12, #12G, 3/4"	0.54					SPARE	30	18		
19	20	KITCHEN EQUIPMENT RECEPTACLE	R	0.18	2#12, #12G, 3/4"		2.68						20		
21	2P-40	WALK IN FREEZER CONDENSER 2	E	2.63	2#8, #10G, 3/4"	5.13		EXISTING	2.50	O	EXISTING 1	2P-30	22		
23			E	2.63	2#8, #10G, 3/4"		2.63						24		
25	2P-20	WALK IN FREEZER EVAPORATOR 2	E	1.56	2#12, #12G, 3/4"	1.56							26		
27			E	1.56	2#12, #12G, 3/4"		1.56						28		
29		SPACE				0.00					SPACE		30		
31		SPACE				0.00					SPACE		32		
33		SPACE				0.00					SPACE		34		
35		SPACE				0.00					SPACE		36		
37	2P-30	EXISTING 1	O	1.60	EXISTING	5.76		EXISTING	4.16	O	EXISTING 1	2P-60	38		
39			O	1.60	EXISTING		5.76		4.16	O	EXISTING 1	2P-60	40		
TOTAL CONNECTED LOAD (KVA)						19.76	17.92								

PANEL SCHEDULES A

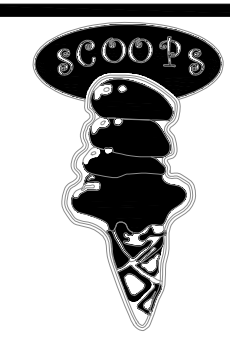
- EXISTING HVAC/PLUMBING EQUIPMENT, ALONG WITH ITS ELECTRICAL CONNECTIONS AND FIXTURES SHALL REMAIN AS IT IS. E.C SHALL FIELD VERIFY THE EXACT NAME AND CIRCUIT OF THE HVAC UNITS BEEN FED AND COORDINATE WITH THE OWNER/MECHANICAL CONTRACTOR/PLUMBING CONTRACTOR FOR ANY REQUIREMENTS ON FIELD.
- PROVIDE NEW BREAKER IN THE EXISTING PANEL AS SHOWN IN PANEL SCHEDULE.

- PROVIDE ISOLATED GROUND FOR REQUIRED CIRCUITS. REFER TO E3.0 POWER PLAN FOR RECEPTACLES AND ASSOCIATED CIRCUITS REQUIRED ISOLATED GROUND.
- BREAKER SIZES, EQUIPMENT LOADS, AND FINAL CONNECTIONS MUST BE VERIFIED WITH FINAL EQUIPMENT SPECIFICATIONS.
- ALL CIRCUITING SHOWN IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY THE ELECTRICAL REQUIREMENT FOR CIRCUITING IN FIELD AS PER THE FINAL ELECTRICAL LOAD AND INFORM ENGINEER FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.
- E.C. SHALL COORDINATE WITH WALK-IN SUPPLIER FOR THE BREAKER AND CABLE REQUIREMENT AND ACCORDINGLY PROVIDE THE ELECTRICAL CONNECTIONS AS PER REQUIREMENTS IN FIELD.
- ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND. 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND. 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B) SHALL BE WITH GFCI PROTECTION.
- REFER TO ARCHITECTURAL SHEET FOR KITCHEN EQUIPMENT SCHEDULE. E.C. SHALL VERIFY THE BREAKER, CABLE, ELECTRICAL LOAD AND CONDUIT REQUIREMENT/SIZES/RATINGS FOR ALL KITCHEN EQUIPMENTS/MECHANICAL EQUIPMENTS WITH EQUIPMENT SUPPLIER/MANUFACTURER AND PROVIDE THE ELECTRICAL CONNECTION ACCORDINGLY. BASE BID ACCORDINGLY.
- COORDINATE WITH MECHANICAL CONTRACTOR/EQUIPMENT SUPPLIER FOR THE ELECTRICAL REQUIREMENTS, BREAKER AND CABLE SIZE AND ACCORDINGLY PROVIDE THE ELECTRICAL CONNECTIONS IN FIELD.

PANEL SCHEDULE KEY NOTES C

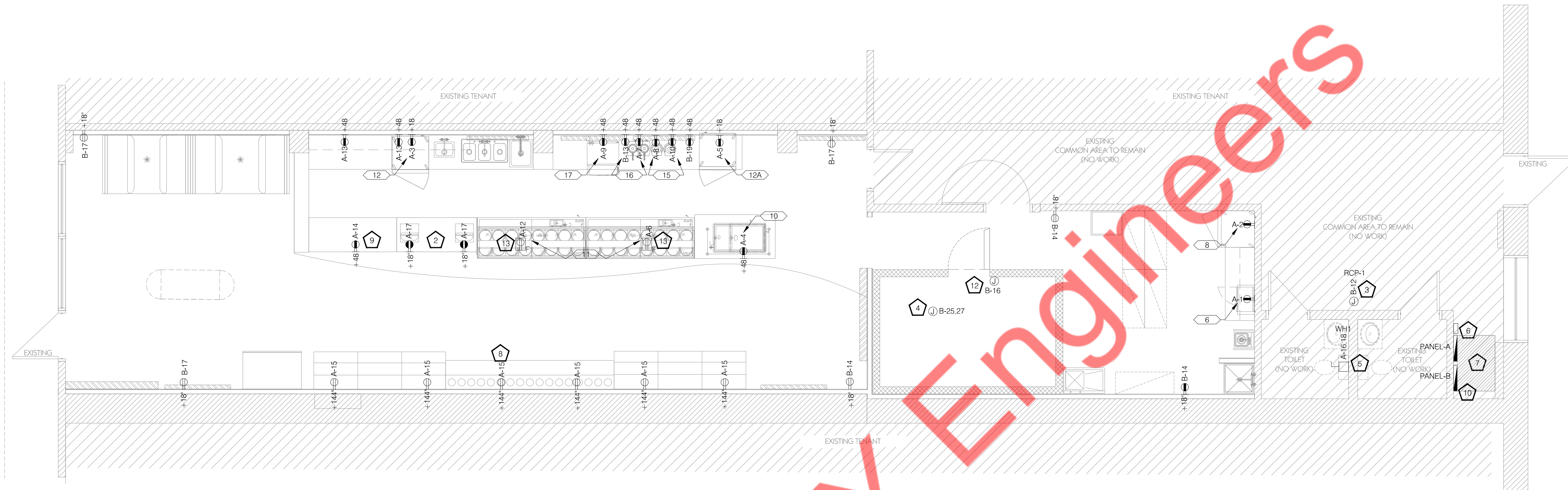
PANEL SCHEDULE GENERAL NOTES B

SCOOPS



SCHEDULES AND LOAD SUMMARY

E2.1



**POWER PLAN 1/4"=1'-0" A**

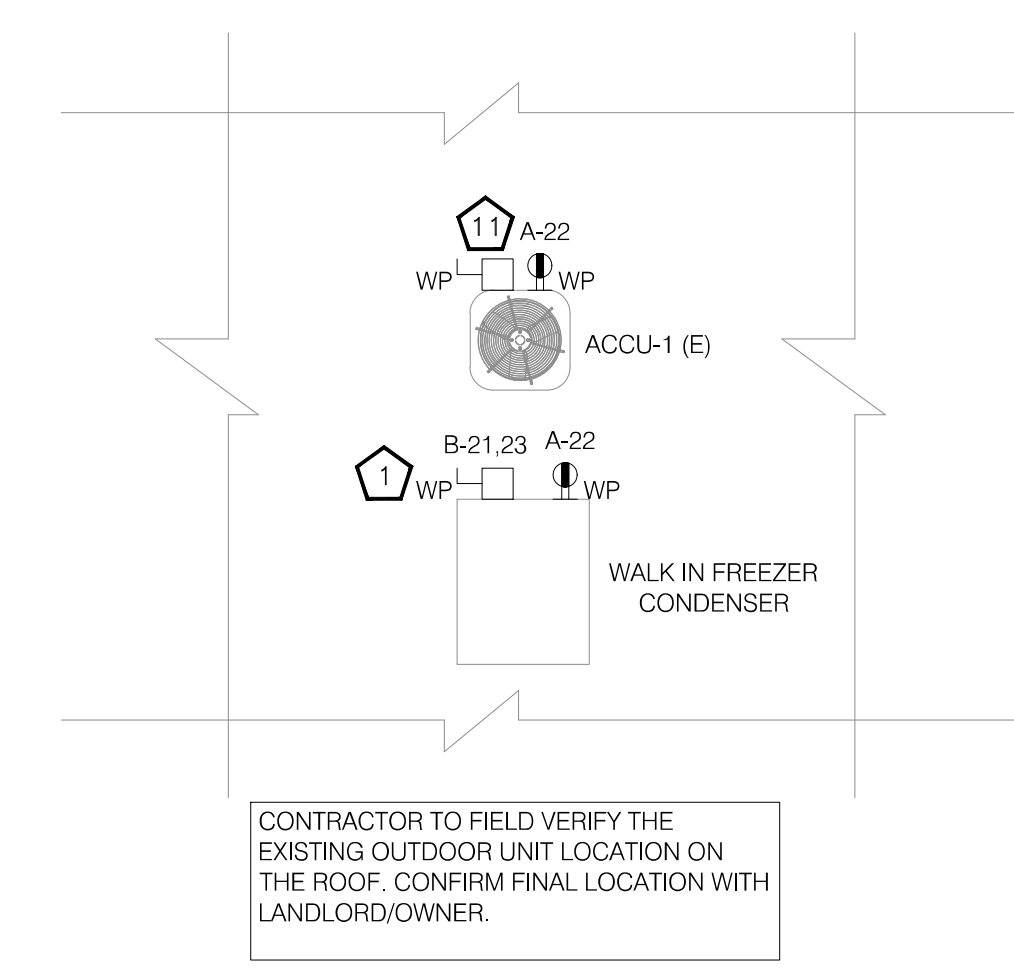
- A. COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATIONS OF OUTLETS.
- B. ALL THE DIMENSIONS MENTIONED TO THE DEVICES ARE FROM FINISHED FLOOR TO CENTER OF BOX VERTICALLY, UNLESS NOTED OTHERWISE.
- C. ALL CONDUIT DROPS ARE INSIDE WALLS UNLESS NOTED OTHERWISE.
- D. ELECTRICAL DRAWINGS AND SPECIFICATIONS SHALL BE MATCHED FOR ALL JUNCTION BOX CIRCUITS, CONDUITS, FIXTURES, ETC.
- E. CONTRACTOR SHALL VERIFY UNDERGROUND CONDUIT LOCATIONS WITH ARCHITECT/OWNER PRIOR TO POURING SLAB.
- F. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE FINAL LOCATION OF ELECTRICAL ROUGH-INS WITH INFO PROVIDED ON THE ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, AND THE EQUIPMENT ACTUALLY SUPPLIED, AND TO CONFIRM THE CORRECTNESS OF ANY DIMENSIONS HEREIN.
- G. DO NOT CUT INTO STUDS. LOCATIONS OF ALL OUTLETS SHALL BE RELOCATED TO NEAREST STUD.
- H. REFER TO KITCHEN & MECHANICAL EQUIPMENT DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS FOR EXACT LOCATIONS OF KITCHEN & MECHANICAL EQUIPMENT AND POINTS OF CONNECTION.
- I. ALL CIRCUIT FEEDERS, CONDUITS AND DISCONNECTS SHALL BE SIZED PER NEC AND LOCAL AHJ REQUIREMENTS.
- J. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER AND DISCONNECT SWITCH WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE ALL APPURTENANCES AS REQUIRED.
- K. NEMA 1 ENCLOSURES RATING SHALL BE USED FOR THE EQUIPMENT LOCATED INTERIOR AND NEMA 3R FOR

- L. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN KITCHEN AREA SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC 210.8(B).
- M. RECEPTACLES INDICATED AS 'GFI' ON THE FLOOR PLAN INDICATES THAT THE RECEPTACLES SHALL BE GFI PROTECTED. E.C. SHALL PROVIDE GFI BREAKER IN PANEL IF RECEPTACLES ARE NOT READILY ACCESSIBLE OR FOR RECEPTACLES OTHER THAN 20A.
- N. ALL SECURITY SYSTEM EQUIPMENT AND POINT-OF-SALE EQUIPMENT, INCLUDING DIGITAL MENU BOARDS, SHALL BE PLACED ON ISOLATED GROUND OUTLETS.
- O. DO NOT MEASURE/LOCATE DEVICES ON DRAWINGS. USE DIMENSIONS PROVIDED ON ARCHITECTURAL PLANS.
- P. PROVIDE ESCUTCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. CONTRACTOR SHALL USE THE SEALANT APPROVED BY LOCAL AHJ.
- Q. ALL DEVICE MOUNTING HEIGHTS NOTED ARE APPROXIMATE. FINAL MOUNTING HEIGHTS MUST BE VERIFIED WITH ASSOCIATED EQUIPMENT PRIOR TO ROUGH-IN.
- R. ALL EQUIPMENT ITEMS ARE BEING RELOCATED FROM THE BAINBRIDGE GA LOCATION. G.C. TO CONFIRM WITH TENANT, EQUIPMENT VENDORS & SCOOPS CORPORATE ALL EQUIPMENT BEING RELOCATED AND/OR ADDED PRIOR TO START OF CONSTRUCTION. G.C. TO INFORM ARCHITECT AND ENGINEER FOR ANY DISCREPANCIES OR CHANGES TO BE COORDINATED WITH PRIOR TO START OF CONSTRUCTION

**POWER PLAN GENERAL NOTES C**

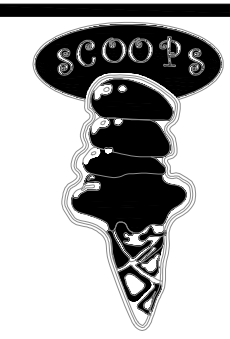
- 1. E.C. SHALL COORDINATE THE OWNER/EQUIPMENT MANUFACTURER FOR THE EXACT POWER REQUIREMENT AND LOCATION FOR WALK IN FREEZER CONDENSER. BASE BID ACCORDINGLY.
- 2. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT POWER REQUIREMENT, PLACEMENT AND MOUNTING HEIGHT FOR THE CASH REGISTER. BASE BID ACCORDINGLY.
- 3. PROVIDE POWER AND ELECTRICAL CONNECTION TO RCP-1 PER MANUFACTURER'S RECOMMENDATION. E.C. SHALL COORDINATE THE EXACT LOCATION AND POWER REQUIREMENTS WITH THE PLUMBING CONTRACTOR. BASE BID ACCORDINGLY.
- 4. EC TO COORDINATE WITH WALK IN FREEZER MANUFACTURER/SUPPLIER FOR EXACT LOCATION OF ELECTRICAL CONNECTION AND POWER SUPPLY REQUIREMENT FOR EVAPORATOR AND ACCORDINGLY PROVIDE THE ELECTRICAL CONNECTION IN FIELD. BASE BID ACCORDINGLY.
- 5. ELECTRICAL SUPPLY PROVISION FOR THE WATER HEATER WH1. E.C. SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR THE EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.
- 6. EXISTING 200A (MCB), 120/240V, 1-PH, 3-WIRE ELECTRICAL PANEL 'A' (NAME TO BE CONFIRMED ON FIELD) FOR THE PROJECT SPACE SHALL REMAIN. E.C. TO FIELD VERIFY THE EXACT LOCATION, SIZE & OPERABLE CONDITION OF EXISTING PANEL. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- 7. E.C. SHALL MAINTAIN CLEARANCE FOR ELECTRICAL PANELS PER NEC 110.26 (A) (1).
- 8. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT POWER REQUIREMENT, PLACEMENT AND MOUNTING DETAILS OF OUTLETS. REFER INTERIOR ELEVATION FOR MORE INFORMATION.
- 9. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT POWER REQUIREMENT, PLACEMENT AND MOUNTING HEIGHT FOR THE CHOCOLATE CASE. BASE BID ACCORDINGLY.
- 10. EXISTING 200A (MCB), 120/240V, 1-PH, 3-WIRE ELECTRICAL PANEL 'B' (NAME TO BE CONFIRMED ON FIELD) FOR THE PROJECT SPACE SHALL REMAIN. E.C. TO FIELD VERIFY THE EXACT LOCATION, SIZE & OPERABLE CONDITION OF EXISTING PANEL. REPLACE IF INOPERABLE. BASE BID ACCORDINGLY.
- 11. EXISTING MECHANICAL UNIT ALONG WITH ITS ELECTRICAL CONNECTION SHALL REMAIN AS IT IS AND SHALL REMAIN CONNECTED TO EXISTING PANEL. E.C. SHALL VERIFY THE OPERABLE CONDITION OF EXISTING ELECTRICAL CONNECTION. REPORT ENGINEER IF ANY DISCREPANCIES OCCUR. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- 12. LOCATION OF OUTLET FOR WALK-IN HEATER. COORDINATE REQUIREMENTS WITH MANUFACTURER.
- 13. FLOOR MOUNTED RECEPTACLES FOR THE EQUIPMENT #11 ICE CREAM DIPPERS. E.C. SHALL COORDINATE EXACT LOCATION OF THE FLOOR RECEPTACLE ON FILED PER THE FIELD CONDITION AND REQUIREMENTS. BASE BID ACCORDINGLY.

**POWER PLAN KEY NOTES B**



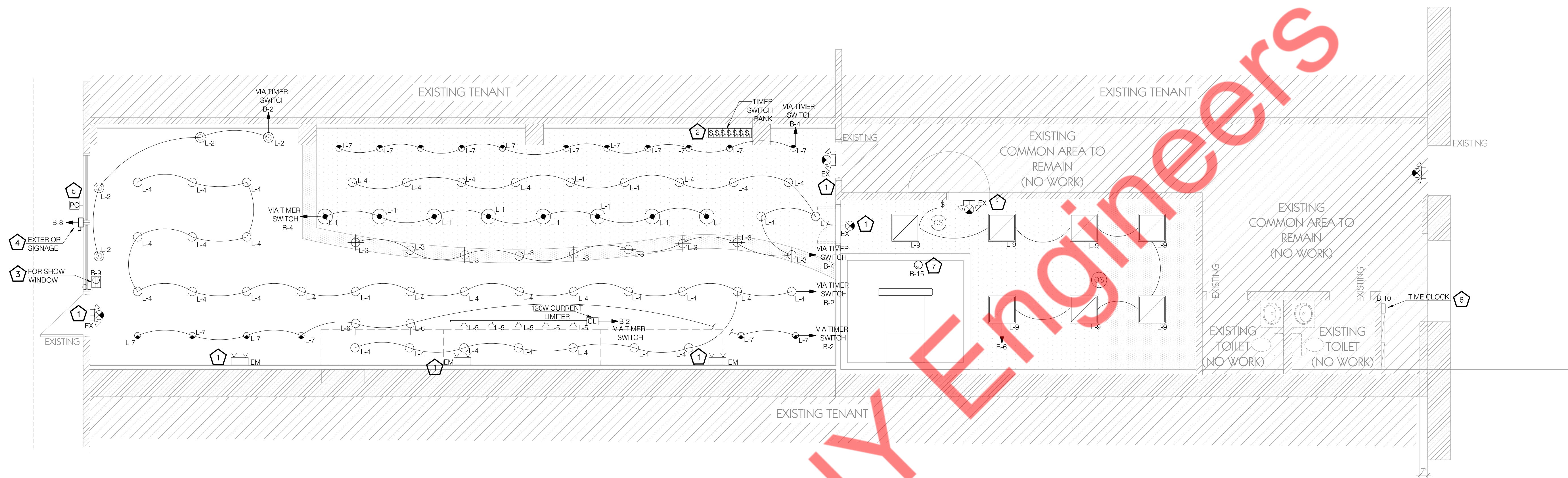
**ELECTRICAL ROOF PLAN B**

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**POWER FLOOR PLAN**

**E3.0**



**LIGHTING PLAN** 1/4"=1'-0" **A**

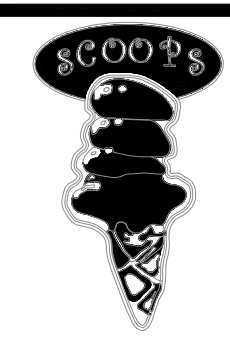
LIGHT FIXTURE SCHEDULE							
NO.	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP #/TYPE	VOLT	WATT
L-1	ALWORTH	-	INDOOR COUNTER PENDANT	-	LED	120	7
L-2	KICHLER	49446AZ	6' WIDE PENDANT WITH SEEDY GLASS	-	LED	120	20
L-3	SEA GULL LIGHTING	7.85682E+11	LIGHT BRUSHED NICKEL PENDANT	-	LED	120	15
L-4	AMERLUX	E4.75R-NC-A-17-TL-21-120-0-10V-EM	4.75' ROUND DOWNLIGHT LED	-	LED	120	21
L-5	AMERLUX	C3TH-A14 LED	LED ADJUSTABLE TRACK LIGHT	-	LED	120	23
L-6	AMERLUX	HDL-HP-RD-A17-20-120	3.5' DOWNLIGHT LED	-	LED	120	20
L-7	AMERLUX	HDL-HP-RA-A17-20-120	3.5' ROUND ADJUSTABLE LED	-	LED	120	20
L-9	LITHONIA LIGHTING	GT4L41 MV	2X4 LIGHT FLORESCENT TROFFER	-	FLUORESCENT	120	32
EX	EXIT LIGHT	TBD	TBD	-	LED	120	3W
EM	EMERGENCY LIGHT	TBD	TBD	-	LED	120	1.5W

- 1 CONNECT ALL EMERGENCY EGRESS AND NIGHT LIGHTING FIXTURES TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
- 2 E.C SHALL COORDINATE EXACT LOCATION OF TIMER SWITCH BANK WITH ARCHITECT/ OWNER.
- 3 PROVIDE CEILING MOUNTED RECEPTACLE FOR SHOW WINDOW AS REQUIRED BY CODE. VERIFY WITH LOCAL ENERGY AGENCY. VERIFY EXACT LOCATION WITH ARCHITECT.SHOW WINDOW RECEPTACLE TO BE PROVIDED BY TIME CLOCK PER TENANT GUIDELINES.
- 4 JUNCTION BOX WITH TOGGLE DISCONNECT PER NEC FOR CONNECTION TO BUILDING MOUNTED SIGNAGE. VERIFY EXACT LOCATION AND CONNECT TO SIGN PER MANUFACTURER'S INSTRUCTION. ROUTE CIRCUIT TO PANEL VIA PHOTOCELL/TIME CLOCK AS INDICATED ON PLAN.
- 5 EXTERIOR MOUNTED PHOTOCELL FOR THE EXTERIOR BUILDING SIGNAGE. E.C TO COORDINATE THE EXACT LOCATION OF PHOTOCELL IN FIELD WITH ARCHITECT /OWNER. BASE BID ACCORDINGLY.
- 6 E.C SHALL COORDINATE EXACT LOCATION OF TIME CLOCK WITH ARCHITECT/ OWNER. BASE BID ACCORDINGLY.
- 7 LOCATION OF JUNCTION BOX FOR WALK-IN LIGHTS. COORDINATE REQUIREMENTS WITH MANUFACTURER.

**LIGHT FIXTURE SCHEDULE** **C**

**LIGHTING PLAN KEY NOTES** **B**

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**LIGHTING PLAN**

**E4.0**



COMcheck Software Version COMcheckWeb  
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC  
Project Title: SCOOPS DALTON  
Project Type: Alteration

Construction Site: 238 N. HAMILTON ST. SUITE #1 DALTON, Florida  
Owner/Agent: Florida  
Designer/Contractor: MICHAEL TOBIAS NY ENGINEERS 382 NE 191ST STREET SUITE 49674 MIAMI, Florida 49674

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts
1-Retail	1430	1.26	1802
Total Allowed Watts = 1802			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture (C X D)	D Watt.	E
Retail (1430 sq.ft.)				
LED: L1: Other:	1	8	7	56
LED: L2: 6" PENDANT LIGHT: Other:	1	5	20	100
LED: L3: LIGHT BRUSHED NICKEL PENDANT: Other:	1	9	15	135
LED: L4: DOWNLIGHT LED: Other:	1	37	21	777
LED: L5: TRACK LIGHT: Other:	1	5	23	115
LED: L6: DOWNLIGHT LED: Other:	1	2	20	40
LED: L7: ROUND LED LIGHT: Other:	1	17	20	340
LED: L9: ROUND LED LIGHT: Other:	1	7	32	224
Total Proposed Watts = 1787				

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MICHAEL TOBIAS  
Name - Title Signature Date 02/17/25

Project Title: SCOOPS DALTON Report date: 02/17/25  
Data filename: Page 1 of 4



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 [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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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: SCOOPS DALTON Report date: 02/17/25  
Data filename: Page 2 of 4

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 [EL18]	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1, C405.2.2, 3 [EL23]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2 [EL22]	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 [EL16]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3, C405.2.3, 1, C405.2.3, 2 [EL20]	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3, C405.2.3, 1, C405.2.3, 3 [EL21]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.4 [EL4]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL8]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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: SCOOPS DALTON Report date: 02/17/25  
Data filename: Page 3 of 4

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5, 2 [F117]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F118]	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.5, 1 [F116]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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: SCOOPS DALTON Report date: 02/17/25  
Data filename: Page 4 of 4

SCOOPS



ELECTRICAL  
ENERGY  
COMPLIANCE

E5.0

PLOT DATE: 18-02-2025