Joe Frogge

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:17

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SUBMITTED FOR REFERENCE ONLY
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NOTE;

RENDERING REPRESENTS THE SMALLS SLIDER BRAND PROTOTYPICAL PREFERRED DESIGN. ACTUAL CONSTRUCTION PRODUCT WILL/MAY VARY.

CONTRACTOR NOTES

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS , INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO SUBMITTING A BID. REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
B. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, AND OWNER OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
D. CONTRACTOR, DURING PRE-BID SITE VISIT, SHALL TAKE NOTICE OF ANY VISUALLY APPARENT CODE VIOLATIONS AND ALLOW IN HIS/HER BID FOR CORRECTING SUCH VIOLATIONS.
E. CONTRACTORS ARE CAUTIONED TO COORDINATE ITEMS IN THEIR SCOPE OF WORK WITH OTHER TRADES.
F. ALL CONSTRUCTION TO COMPLY WITH LOCAL AND STATE CODES AND STANDARDS
G. CONTRACTOR TO PROVIDE LOW LEVEL EXIT SIGNAGE WITH BRAILLE AT ALL REQUIRED EXITS.
H. CONTRACTOR IS VERIFY EXISTING BACKFLOW PREVENTER IS PRESENT AND WORKING PROVIDE NEW OR REPAIR AS NEEDED
I. DO NOT MANUALLY SCALE THESE DRAWINGS TO FIND DIMENSIONAL INFORMATION. IF DIMENSIONS ARE MISSING OR ARE UNCLEAR CONTACT THE ARCHITECT FOR CLARIFICATION IMMEDIATELY. NO WORK SHOULD PROCEED UNTIL THE ARCHITECT HAS PROVIDED REVISED DRAWINGS CLARIFYING THE MISSING OR UNCLEAR DIMENSIONS.
J. THESE NOTES APPLY TO ALL SHEETS.

PROFESSIONALS OF RECORD:

ARCHITECT
HILL FOLEY ROSSI & ASSOCIATES, LLC
3680 PLEASANT HILL ROAD, SUITE 200
DULUTH, GA 30096
PH: (770) 622-9858

SITE AND CANOPY STRUCTURAL ENGINEER
HILL FOLEY ROSSI & ASSOCIATES, LLC
3680 PLEASANT HILL ROAD, SUITE 200
DULUTH, GA 30096
PH: (770) 622-9858

CIVIL ENGINEER
KAW VALLEY ENGINEERING, INC.
2319 N. JACKSON | PO BOX 1304
JUNCTION CITY, KANSAS 66441
PH: (785) 762-5040

SITE MEP ENGINEER
KURZYNSKE & ASSOCIATES
2705 LEBANON PIKE, SUITE 100
NASHVILLE, TN 37214
PH: (615) 255-5203

MODULAR BUILDING / DESIGN / STRUCTURE / MEP / MANUFACTURER
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE
ORMOND BEACH, FL 32174
PH: (386) 677-9316

PERMIT REVIEW NOTES

A. MODULAR BUILDING IS MANUFACTURED AND INSTALLED BY THE BUILDING MANUFACTURER.
B. MODULAR BUILDING PLANS ARE APPROVED BY THE STATE OF MISSOURI PUBLIC SERVICE COMMISSION, MANUFACTURED HOUSING DEPARTMENT AND ARE SUBMITTED WITH THE PERMIT PLANS FOR REFERENCE ONLY.

LOCATION MAP

SMALLS SLIDERS
210 SW OLDHAM PKWY
LEES SUMMIT, MO 64081

Hill Foley Rossi & Associates
ARCHITECTURE + ENGINEERING
3680 Pleasant Hill Road
Suite 200
Duluth, GA 30096
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STATE OF MISSOURI
SCOTT D. MAGAR
NUMBER A-2006009936
ARCHITECT
10-17-2025

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COVER SHEET

REVISIONS	
NO.	DATE
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PROJECT NO: 252003

SHEET G0.00

DATE 10.08.25

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SMALL SLIDERS VENDOR CONTACTS

PRODUCT	VENDOR	CONTACT NAME	PHONE NUMBER	EMAIL
MODULAR BUILDING	VALIANT	DENNIS AMENDOLIA	(386) 679-2258	DENNIS@VALIANTMODULAR.COM
MODULAR BUILDING	ARNING	GAVIN CHAPMAN	(417) 846-3098	GAVIN.CHAPMAN@ARNING.COM
MENU BOARDS	THE HOWARD COMPANY	ROD CLOUSER	(262) 853-4754	ROD@HOWARDCOMPANY.COM
CLEARANCE BARS	THE HOWARD COMPANY	ROD CLOUSER	(262) 853-4754	ROD@HOWARDCOMPANY.COM
SIGNAGE	ANCHOR SIGNS	KENNETH CRABB	(843) 576-3296	KCRABB@ANCHORSIGN.COM
HOOD STARTUP	CAPTIVE AIRE	SCOTT TOWNER	(407) 269-4813	SCOTT@ADVANCEDHOODSYSTEMS.COM
MAJOR EQUIPMENT & WALK-IN COOLER INSTALL	EDWARD DON & COMPANY	JENNIFER ROLLING	(813) 395-1994	JENNIFERROLLING@DON.COM
EQUIPMENT STARTUP	EDWARD DON & COMPANY	JENNIFER ROLLING	(206) 742-1622	JENNIFERROLLING@DON.COM
KITCHEN EQUIPMENT	EDWARD DON & COMPANY	JENNIFER ROLLING	(425) 656-6670	JENNIFERROLLING@DON.COM
KITCHEN SMALLWARES	EDWARD DON & COMPANY	SEAN ROUSSEL	(504) 442-8484	SEANROUSSEL@DON.COM
SHAKE MACHINE START-UP	TFG, LLC	BRITTANY ALGAISI	(615) 256-6529	BRITTANY@TFGROUPLLC.COM
OUTDOOR FURNISHINGS	SEATING HUB	AMY HOFFMANN	(773) 373-0035	AMY.H@SEATINGHUB.COM
POS EQUIPMENT INSTALL	RDS	MAVERICK CHAPMAN	(470) 767-9086	MCHAPMAN@RDSPOS.COM
MERCHANT PAYMENT SERVICES	RDS	MIRIAM BAKER	(470) 767-9086	PAYMENTSERVICES@RDSPOS.COM
PRE-OPENING KIT	VIVID INK	KARNA FREEMAN	(225) 603-8916	KARNA@VIVIDINK.COM
GRAND OPENING KIT	VIVID INK	KARNA FREEMAN	(225) 603-8916	KARNA@VIVIDINK.COM
LINEN PROVIDER	CINTAS	JIM STEVENS	(225) 252-0566	JSTEVENS@CINTAS.COM
NETWORKING & PCI COMPLIANCE	VIKING CLOUD	MATT DELLACROCE	(610) 937-7028	MATTHEWDELLACROCE@VIKINGCLOUD.COM
A/V EQUIPMENT	BUSINESS SOUND	DEREK GUIDRY	(225) 939-7543	DEREK@BUSINESSSOUND.NET
MUSIC	ROCKBOT	MICHAEL SIMONTON	(415) 335-4157	MICHAEL.SIMONTON@ROCKBOT.COM
FOOD SERVICE PROVIDER	PERFORMANCE FOOD GROUP	DWAYNE ROBINSON	(850) 443-2492	DWAYNE.ROBINSON@PFGC.COM
FLOOR CLEANER	PERFORMANCE FOOD GROUP	DWAYNE ROBINSON	(850) 443-2493	DWAYNE.ROBINSON@PFGC.COM
Co2 PROVIDER	NUCo2	ELIZABETH CONTI	(772) 284-3726	ELIZABETH.CONTI@NUCo2.COM
TEA EQUIPMENT	COMMUNITY COFFEE	RON MANNINO	(678) 656-7199	RMANNINO@COMMUNITYCOFFEE.COM
FOUNTAIN DRINK MACHINES	COCA-COLA	PARKER SHANK KATINA BROWN	(470) 716-3046 (800) 531-2238 x3454	PASHANK@COCA-COLA.COM KATIBROWN@COCA-COLA.COM
GREASE TRAP AND COOKING OIL RENDERING	DARPRO SOLUTIONS	GABBY PULLEN	(469) 673-9636	GABRIELLE.PULLEN@DARLINGII.COM
CHEMICAL EQUIPMENT	PROCTOR & GAMBLE	ASHLEY JACKSON KIM HUEY		JACKSON.AM.1@PG.COM HUEY.KD@PG.COM
FIRST AID AND BODILY FLUID KIT	EDWARD DON & COMPANY	SEAN ROUSSEL	(504) 442-8484	SEANROUSSEL@DON.COM
K9GRASS WITH AIRGRID OR OVER AGREGARE	FOREVERLAWN	NOAH MANG	(330) 499-8873	NOAH@FOREVERLAWN.COM
EXHAUST GREASE DISPOSAL & FILTER PADS	ROOFTOP SOLUTIONS	JULIA GALASSINI HOEKSTRA	(331) 301-4147	JULIA.GALASSINI@ROOFTOPSOLUTIONS.COM

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PRECEDING WITH WORK. FOR DIMENSIONS NOT SHOWN.
2. DO NOT SCALE ANY DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT TO ARCHITECT ANY DISCREPANCIES FOR CLARIFICATION.
3. ALL WORK SHALL BE IN COMPLIANCE WITH THE STANDARD BUILDING RECOGNIZED INDUSTRY STANDARDS, CRAFTSMANSHIP STANDARDS IN THE AREA, ALL MANUFACTURERS RECOMMENDATIONS, AND ALL OTHER APPLICABLE CODES.
4. THE CONTRACTOR SHALL CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, UNLESS WRITTEN NOTIFICATION FROM THE OWNER OR ARCHITECT TO THE CONTRARY IS RECEIVED.
5. PROVIDE ACCESSIBILITY FOR PHYSICALLY HANDICAPPED CONFORMING TO CODES LISTED ON THE COVER SHEET.
6. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREIN OR NOT, PRIOR TO EXCAVATION. ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR.
7. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD, AS REQUIRED.
8. PROVIDE ILLUMINATED EXIST SIGNS, OR AS ALLOWED BY IBC., WITH A BATTERY BACKUP DESIGNATING EXITS AND WAYS OF TRAVEL.
9. REFER TO PLANS FOR TYPE AND LOCATIONS OF FIRE EXTINGUISHERS. ALL FIRE EXSTINGUISHERS ARE TO BE MOUNTED WHERE THEY ARE READILY VISIBLE AND ACCESSIBLE. INSTALL IN ACCORDANCE WITH NFPA 20 OR PER LOCAL AUTHORITY.
10. EVERY INTERIOR AND EXTERIOR DOOR IN THE TENANT SUITE SHALL BE PROVIDED WITH ACCESSIBLE HARDWARE (LEVERS, PANIC HARDWARE, OR U-SHAPE DESIGNED DEVICES, ETC.)
11. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS AND OTHER FASTENING DEVICES.
12. WHERE MATERIAL FASTENERS ARE NOT INDICATED, PROVIDE AS SPECIFIED BY THE MATERIAL MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.
13. USE ONLY "LEAD-FREE" PIPE AND SOLDER FOR DOMESTIC WASTE SYSTEM. (SAFE DRINKING WATER ACT OF 1986 AND S.S.P.C., SECTION 1210.4).
14. ALL EXTERIOR MECHANICAL OPENINGS LARGER THAN 12"X12" SHALL BE EQUIPPED WITH BURGLAR BARS.
15. ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE NOTED.
16. PRIOR TO START OF CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO FIELD VERIFY EXISTING CONDITIONS. EXISTING CONDITIONS INCLUDE BUT ARE NOT LIMITED TO DIMENSIONS, LOT LINES, AND UTILITIES. GENERAL CONTRACTOR IS TO NOTIFY ARCHITECT IF ANY DIMENSIONS DO NOT MATCH THOSE SHOWN OR IF THERE ARE ANY DISCREPANCIES OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS IMMEDIATELY.
17. IT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO COORDINATE WITH OTHER SUBCONTRACTORS/TRADES. FAILURE TO DO SO WILL NOT CONSTITUTE GROUNDS FOR A CHANGE ORDER.
18. GENERAL CONTRACTOR TO PATCH AND REPAIR TO "LIKE NEW" ANY AREA THAT IS DISTURBED DURING DEMOLITION AND CONSTRUCTION.

RESPONSIBILITY MATRIX

	MODULAR BUILDING MANUFACTERER	AXCESS CONSTRUCTION	GENERAL CONTRACTOR	OWNER	CAPTIVEAIRE	EQUIPMENT SUPPLIER	COMMENTS
MODULAR BUILDING							
PROVIDE RESTROOM FIXTURES	•						
PROVIDE INTERIOR ELECTRICAL PANELS	•						
PROVIDE INTERIOR LIGHTING FIXTURES	•						
INSTALL INTERIOR/ EXTERIOR FINISHES	•						
INSTALL INTERIOR PARTIIONS	•						
INSTALL INTERIOR/ EXTERIOR DOORS	•						
INSTALL PASS-THRU WINDOWS	•						
MARSHAL DELIVERY OF MODULAR BULDING	•		•				COORDINATE WITH MODULAR BUILDING MANUFACTURER
PROVIDE AND INSTALL PARAPET WALLS	•						
TRANSFER MODULAR BUILDING TO FOUNDATION		•	•				SITE MUST BE LEVEL AND COMPACTED SO NEITHER THE DELIVER TRUCK OR CRANE BECOME STUCK DURING TRANSFER OPERATIONS. IF THE SITE IS WET THE GC MUST SUPPLY MATTS FOR CRANES AND TRUCKS. A PRE-DELIVERY MEETING WITH THE SELECTED CRANE COMPANY IS REQUIRED TO DISCUSS CRANE ACCESS AND PLACEMENT. CONTACT MODULAR BUILDING MANUFACTURER FOR COORDINATION.
WELD MODULAR BUILDING TO FOUNDATION			•				
WELD SHIPPING CONTAINER TO BUILDING TOP PLATES AND TEE-COLUMN			•				
WELD TOP PLATE ONTO EXHAUST HOOD FAN RISER			•				
INSTALL INTERIOR LIGHTING FIXTURES			•				FIXTURES PROVIDED BY MODULAR BUILDING MFR.
INSTALL EXTERIOR LIGHTING FIXTURES - WALL PACKS			•				FIXTURES PROVIDED BY MODULAR BUILDING MFR.
SITE POLE LIGHTING; FOUNDATIONS, POLES, AND FIXTURES							PROVIDED AND INSTALLED BY GENERAL CONTRACTOR
CONNECT POWER TO EXHAUST HOOD FAN			•				MODULAR BUILDING MFR. TO SUPPLY WIRE AND DISCONNECT AT UNIT
CONNECT PRE-INSTALLED ELECTRICAL WHIPS TO ROOFTOP HVAC UNIT			•				MODULAR BUILDING MFR. SUPPLIES AND PLACES UNIT. MODULAR BUILDING MANUFACTURER TO SUPPLY WIRE TO UNIT. GC TO CONNECT POWER.
CONNECT ROOF TOP CONDENSING UNITS.			•				MODULAR BUILDING MFR. TO SUPPLY WIRING TO ROOFTOP FOR UNITS. GC TO SUPPLY DISCONNECTS TO THESE UNITS
CONNECT MAIN POWER TO BUILDING			•				GC TO MAKE UNDERGROUND CONNECTION TO INTERIOR PANEL LUGS. PANEL INSTALLED BY MODULAR BUILDING MANUFACTURER.
CONNECT ROOFTOP HVAC CONDENSATION LINE TO ROOFTOP DRAIN.			•				
ARRANGE HVAC STARTUP AND FINAL INSPECTION OF HOODVENT			•				CALL SCOTT TOWNER AT ADVANCED HOODS (CAPTIVAIRE) (407) 269-4813. MUST PROVIDE A MINIMUM TWO WEEKS NOTICE.
STARTUP HVAC					•		
HOOD VENT TEST AT FINAL INSPECTION					•		
PROVIDE WALK-IN COOLER/FREEZER FENCING METAL PANELS	•						MOD. BLDG. MANUF. TO SUPPLY FENCING METAL PANELS. TYPICALLY SAME METAL PANELS AS BLDG.
INSTALL WALK-IN COOLER/FREEZER FENCING			•				GC TO INSTALL THE METAL FENDING PANELS.
WALK-IN COOLER							
WALK-IN COOLER / FREEZER FOUNDATION			•				REFER TO S1.00
ASSEMBLE, ANCHOR, AND COVER WALKING UNITS WITH ROOFING MEMBRANE						•	CONCRETE SURROUNDING WALK-IN COOLER FOUNDATION MUST BE INSTALLED AND CURED PRIOR TO INSTALLATION OF WALK-IN COOLERS FOR WALK-IN ANCHORS TO BE INSTALLED.
LOCATE CONDENSERS ON TOP OF MODULAR BUILDING						•	
PROVIDE FLASHING BETWEEN WALK-INS AND MODULAR BUILDING			•				
INSTALL LIGHTING FIXTURES IN WALK-INS			•				
CONNECT POWER TO WALK-IN LIGHT FIXTURES AND MISCELLANEOUS OTHER ELECTRICAL IN WALK-IN COOLER.			•				
CONNECT POWER TO WALK-IN FOR CONDENSERS, EVAPORATORS			•				
RUN CONDENSATION LINES			•				ALL PENETRATIONS ARE GC RESPONSIBILITY
RUN REFRIGERATION LINES						•	
SITE WORK							
MODULAR BUILDING FOUNDATION AND ANCHORAGE			•				
DRIVE THROUGH CANOPY FOUNDATION			•				
DRIVE THROUGH CANOPY STEEL			•				ORDER, SUBMIT SHOP DRAWINGS, INSTALL, PAINT
DRIVE THROUGH CANOPY ROOFING PANELS			•				
DRIVE THROUGH CANOPY ELECTRICAL			•				
PATIO CANOPY STEEL FOUNDATION AND ANCHORAGE			•				
PATIO CANOPY STEEL			•				ORDER, SUBMIT SHOP DRAWINGS, INSTALL, PAINT
PATIO CANOPY ROOFING PANELS/ FLASHING TO MODULAR BUILDING			•				
PATIO CANOPY ELECTRICAL			•				
RUN ELECTRICAL TO BUILDING			•				PROVIDE TRENCHING AS REQUIRED TO COMPLETE WORK
RUN DOMESTIC WATER TO BUILDING			•				PROVIDE TRENCHING AS REQUIRED TO COMPLETE WORK
RUN GAS TO BUILDING			•				PROVIDE TRENCHING AS REQUIRED TO COMPLETE WORK
CONNECT SANITARY SEWER TO MODULAR BUILDING STUB-OUTS BENEATH THE MODULAR BUILDING			•				PROVIDE TRENCHING AS REQUIRED TO COMPLETE WORK
DEMO EXISTING CONCRETE/ ASPHALT, ETC. AS REQUIRED TO CONNECT POWER, DOMESTIC WATER, GAS AND SANITARY SEWER TO BUILDING AND ELECTRICAL FROM BUILDING TO SITE ELEMENTS REQUIRING POWER AND COMMUNICATION LINES.			•				
PROVIDE FOUNDATION, ANCHORAGE, ELECTRICAL AND COMMUNICATION CONDUIT TO SITE SIGNAGE AND MENUBOARDS			•				
PROVIDE DRIVE THROUGH MENU BOARDS				•			
PROVIDE SITE SIGNAGE				•			
PROVIDE SITE LIGHTING FOUNDATIONS, ANCHORAGE, AND ELECTRICAL STUB-OUTS			•				
PROVIDE POWER TO SIGHT LIGHTING FIXTURES			•				
ROUTE SITE LOW VOLTAGE POWER CONDUIT			•				GC TO CORE TO MAKE CONNECTIONS TO BUILDING PANELS
TREX PATIO RAILING			•				
DUMPSTER PAD AND ENCLOSURE FENCING			•				
LANDSCAPING IRRIGATION LINES, SLEEVES, AND CONTROL EQUIPMENT. MAY REQUIRE SEPARATE METER			•				
LANDSCAPING VEGETATION AND MULCH OR GRAVEL AS CALLED FOR			•				
PATIO RECESSED ARTIFICIAL TURF			•				
PATIO RECESSED TRENCH DRAIN BENEATH ARTIFICIAL TURF			•				
SITE PAINTED STRIPING AND DIRECTIONAL SIGNAGE			•				

smalls SLIDERS

SMALLS SLIDERS
210 SW OLDHAM PKWY
LEES SUMMIT, MO 64081

HFR HILLFOLEY ROSSI
ARCHITECTURE • ENGINEERING

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SEALED:

STATE OF MISSOURI
SCOTT D. MAGAR
NUMBER A-2006009936
ARCHITECT
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RESPONSIBILITY SCHEDULE

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SHEET G0.01

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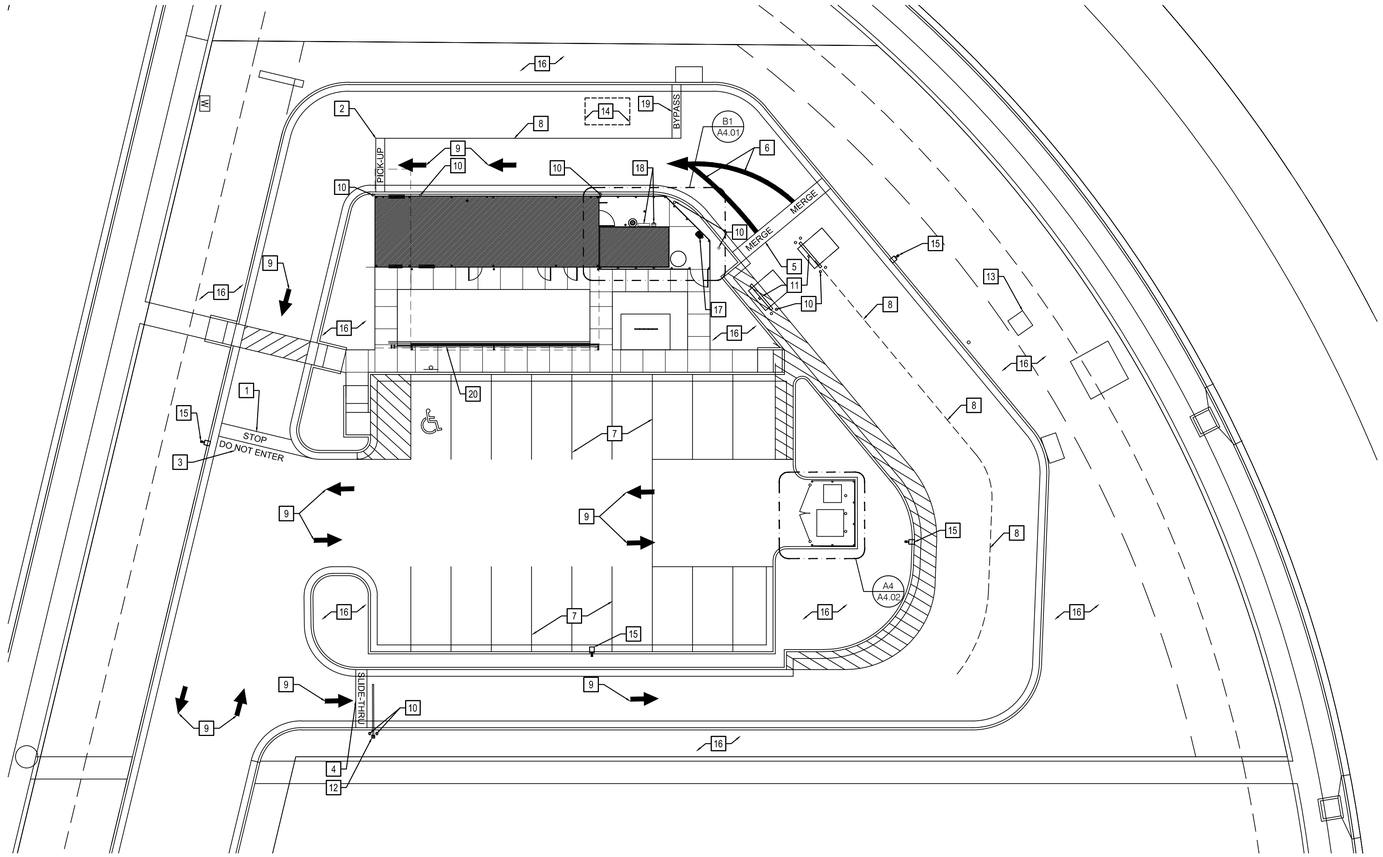
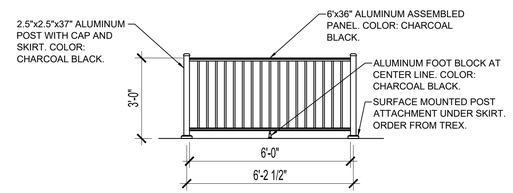


GENERAL NOTES - ARCHITECTURAL SITE PLAN

1	NOTICE - THE SITE PLAN DESIGNATED ON THIS SHEET IS FOR REFERENCE ONLY AND IS A REPRESENTATION OF THE EXISTING CONDITIONS AND THE PROPOSED IMPROVEMENTS TO THE SITE. IN NO WAY, NOR IS IT INTENDED IN ANY WAY, TO REPRESENT A LEGAL OR BOUNDARY SURVEY. SEE CIVIL SHEETS FOR MORE INFORMATION.
2	THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS RELATED TO THE DEMOLITION AND CONSTRUCTION WORK TO BE DONE AND BE RESPONSIBLE FOR THE SAME. MAKE ADJUSTMENTS AS NECESSARY. NOTIFY ARCHITECT AND CIVIL ENGINEER OF RECORD OF ANY DISCREPANCIES WHICH MAY AFFECT THE OUTCOME OF WORK.
3	MAINTAIN A CLEAN SITE AT ALL TIMES.
4	THE CONTRACTOR SHALL CONTACT ALL LOCAL UTILITY COMPANIES AND VERIFY ALL UTILITY LOCATIONS PRIOR TO DEMOLITION AND CONSTRICTION WORK BEGINS.

KEY NOTES - ARCHITECTURAL SITE PLAN

#	
1	PAINTED STOP LINE; BACKGROUND RED; TEXT WHITE.
2	PAINTED PICKUP LINE; BACKGROUND ORANGE; TEXT WHITE.
3	TEXT; COLOR WHITE
4	PAINTED SLIDE-THRU LINE; BACKGROUND ORANGE; TEXT WHITE.
5	PAINTED MERGE LINE; BACKGROUND ORANGE; TEXT WHITE.
6	PAINTED DIRECTIONAL MERGE ARROW; COLOR ORANGE.
7	SOLID STRIPING; COLOR WHITE (TYPICAL).
8	DASHED STRIPING; COLOR WHITE (TYPICAL).
9	PAINTED DIRECTIONAL ARROW; COLOR WHITE (ALL).
10	BOLLARD
11	DRIVE-THRU ORDER POINT/MENU BOARD WITH INTEGRAL CANOPY
12	SINGLE CLEARANCE BAR
13	PROPOSED LOCATION OF TRANSFORMER. SEE ME SHEETS FOR MORE INFORMATION.
14	PROPOSED LOCATION OF GREASE TRAP. SEE ME SHEETS FOR MORE INFORMATION.
15	PROPOSED LOCAITON OF SITE LIGHTING. SEE ME SHEETS FOR MORE INFORMATION.
16	LANDSCAPING (BY OTHERS). SEE LANDSCAPING SHEETS FOR MORE INFORMATION.
17	PROPOSED LOCATION OF GAS METER. SEE ME SHEETS FOR MORE INFORMATION.
18	ELECTRIC MDP/CT/METER. SEE ME SHEETS FOR MORE INFORMATION.
19	PAINTED BYPASS LINE; BACKGROUND ORANGE; TEXT WHITE - NOT USED.
20	TREX SIGNATURE RAIL FENCE KIT. INSTALL BETWEEN SIDEWALK AND TURF AREA (BETWEEN COLUMNS). SEE ENLARGED PATIO PLAN SHEET A2.01. BREAK RUN AT DOWNSPOUT LOCATIONS.



NOTE:
ASSEMBLED PANELS COME IN LENGTHS OF 4', 6', AND 8'. 6'x36" ALUMINUM ASSEMBLED PANEL SHOWN. COLOR: CHARCOAL BLACK.

A5 TYPICAL ALUMINUM RAIL
SCALE: 3/8" = 1'-0"

A1 SITE PLAN
SCALE: 1/16" = 1'-0"

N

smalls SLIDERS

SMALLS SLIDERS
210 SW OLDHAM PKWY
LEES SUMMIT, MO 64081

HILLFOLEY ROSSI
ARCHITECTURE · ENGINEERING
Hill Foley Rossi & Associates
ARCHITECTURE + ENGINEERING
3680 Pleasant Hill Road
Suite 200
Duluth, GA 30096
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SCOTT D. MAGAR
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ARCHITECTURAL SITE PLAN

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NO.	DATE
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PROJECT NO: 252003

SHEET A1.01

DATE 10.08.25

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1-2 POSTS, CAPS & SKIRTS *(continued)*

COMPONENT	ORIENTATION	DIMENSIONS	ITEM #	COLORS
Aluminum Post with Premounted Brackets Includes post with premounted brackets, cap and skirt.	Line	2.5" x 2.5" x 37" Post with Brackets	BKAL252537RCAPLINE	BK
		2.5" x 2.5" x 43" Post with Brackets	BKAL252543RCAPLINE	
	End	2.5" x 2.5" x 37" Post with Brackets	BKAL252537RCAPEND	
		2.5" x 2.5" x 43" Post with Brackets	BKAL252543RCAPEND	
	Corner	2.5" x 2.5" x 37" Post with Brackets	BKAL252537RCAPCNR	
		2.5" x 2.5" x 43" Post with Brackets	BKAL252543RCAPCNR	

Dimensions above are nominals. See below for actuals and metrics.
2.5 in x 2.5 in x 36 in (63 mm x 63 mm x 914 mm)
2.5 in x 2.5 in x 37 in (63 mm x 63 mm x 939 mm)
2.5 in x 2.5 in x 42 in (63 mm x 63 mm x 106 cm)
2.5 in x 2.5 in x 43 in (63 mm x 63 mm x 109 cm)
2.5 in x 2.5 in x 53 in (63 mm x 63 mm x 134 cm)
2.5 in x 2.5 in x 63 in (63 mm x 63 mm x 160 cm)

3 RAIL KITS

COMPONENT	ORIENTATION	DIMENSIONS	ITEM #	COLORS
ALUMINUM RAILING				
Aluminum Rail & Square Baluster Kit Includes top rail, bottom rail, balusters and mounting and support hardware.	Horizontal	6' x 36" Rail & Baluster Kit	XXAS0636HRK	WT BZ BK
		8' x 36" Rail & Baluster Kit	XXAS0836HRK	
		6' x 42" Rail & Baluster Kit	XXAS0642HRK	
		8' x 42" Rail & Baluster Kit	XXAS0842HRK	
	Stair	6' x 36" Rail & Baluster Kit	XXAS0636SRK	
		8' x 36" Rail & Baluster Kit	XXAS0836SRK	
		6' x 42" Rail & Baluster Kit	XXAS0642SRK	
		8' x 42" Rail & Baluster Kit	XXAS0842SRK	
Aluminum Rail & Round Baluster Kit Includes top rail, bottom rail, balusters and mounting and support hardware.	Horizontal	6' x 36" Rail & Baluster Kit	BKAR0636HRK	BK
		8' x 36" Rail & Baluster Kit	BKAR0836HRK	
		6' x 42" Rail & Baluster Kit	BKAR0642HRK	
		8' x 42" Rail & Baluster Kit	BKAR0842HRK	
	Stair	6' x 36" Rail & Baluster Kit	BKAR0636SRK	
		8' x 36" Rail & Baluster Kit	BKAR0836SRK	
		6' x 42" Rail & Baluster Kit	BKAR0642SRK	
		8' x 42" Rail & Baluster Kit	BKAR0842SRK	

Dimensions above are nominals. See below for actuals and metrics.
4' x 36": 48 in x 36 in (122 cm x 914 mm)
4' x 42": 48 in x 42 in (122 cm x 106 cm)
6' x 36": 72 in x 36 in (182 cm x 914 mm)
6' x 42": 72 in x 42 in (182 cm x 106 cm)

XX = COLOR PREFIX

WT Classic White BZ Bronze
BK Charcoal Black

HOME

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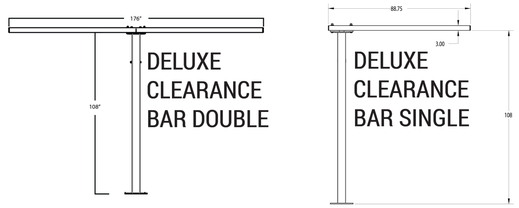
C1 ALUMINUM POST WITH PRE-MOUNTED BRACKETS
SCALE: N.T.S.

NOTE:
GENERAL CONTRACTOR TO VERIFY COMPONENTS WITH TREX TO ENSURE ITEMS ARE FOR TREX ALUMINUM SIGNATURE SERIES 36" HIGH RAILING.
COLOR: CHARCOAL BLACK

DELUXE CLEARANCE BAR

FOUNDATION INSTRUCTIONS

DELUXE CLEARANCE BAR



Foundation Preparation

1. It is the intent of these drawings to be used as guidelines only, for the installation of the equipment illustrated. The information contained in these documents has set forth certain assumed conditions. It shall be the responsibility of the purchaser and his contractor to verify these assumptions with local governing agencies. In addition, certain assumptions have been made and noted on the drawings and specifications for soil bearing capacity. It shall be the responsibility of the purchaser and his contractor to verify these assumptions and make the necessary revisions to the structure and the parking lot design, as indicated on the site documents provided by the owner/tenant. It shall be the responsibility of the purchaser and his contractor to submit these documents to the proper governing agencies for their review and to make all necessary modifications and/or revisions.

NOTE: For new concrete installations, it is possible that you have only received the necessary hardware to mount the pedestal base. This hardware is listed under item #1, below.

1. Before beginning installation, check that you have all required hardware:

MENU BOARD HARDWARE

A. One (1) Template
B. Four (4) Anchor Bolts
C. Eight (8) Hex Nuts

2 *Foundation Placement*

DIAGRAM M

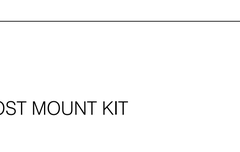


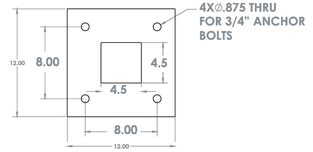
DIAGRAM N

DELUXE CLEARANCE BAR

FOUNDATION INSTRUCTIONS

DIAGRAM C Template & Foundation Mounting Template

HOLE SIZES:
A: 0.813" DIA. HOLE.....(4 REQD)
B: 4.5" SQUARE HOLE.....(1 REQD)



Foundation

The high voltage conduit must be installed in place by a qualified contractor. It runs from the power source to the menu board location. A conduit stub should protrude 4" above the concrete slab **(see Diagram O)** Use the template supplied for the correct relation between the mounting bolts and the conduit location. Power and ground leads should be pulled through the conduit approximately 12" beyond the conduit stub, and be accessible at the time of final wiring. **Note: The 120VAC power lines run up the inside back of the pedestal base (see Diagram C, Mounting Template)**
After the location is established, pour the concrete footing per local codes. While the concrete is still soft, insert the four (4) anchor bolts. Use the supplied template as a bolt and conduit locator. Anchor bolts should be 2-3/4" above grade (see Diagram C Foundation. **Note: Prior to placing the template down, one (1) nut must be threaded onto each anchor bolt and sunk into the concrete, flush with the top of the nut.** Place the template over the eight (4) anchor bolts and secure in place with four (4) more nuts.

DIAGRAM O

TREX SIGNATURE® RAILING

3 RAIL KITS *(continued)*

COMPONENT	ORIENTATION	DIMENSIONS	ITEM #	COLOR
ALUMINUM RAILING				
Aluminum Assembled Square Baluster Panel Includes a preassembled panel of railing with square balusters. Mounting hardware sold separately.	Horizontal	4' x 36" Assembled Panel	BKAS0436HRPNL	BK
		6' x 36" Assembled Panel	BKAS0636HRPNL	
		8' x 36" Assembled Panel	BKAS0836HRPNL	
		4' x 42" Assembled Panel	BKAS0442HRPNL	
		6' x 42" Assembled Panel	BKAS0642HRPNL	
		8' x 42" Assembled Panel	BKAS0842HRPNL	
	Stair	6' x 36" Assembled Stair Panel	BKAS0636SRPNL	
		6' x 42" Assembled Stair Panel	BKAS0642SRPNL	
		8' x 36" Assembled Stair Panel	BKAS0836SRPNL	
		8' x 42" Assembled Stair Panel	BKAS0842SRPNL	

Dimensions above are nominals. See below for actuals and metrics.
4' x 36": 48 in x 36 in (122 cm x 914 mm)
4' x 42": 48 in x 42 in (122 cm x 106 cm)
6' x 36": 72 in x 36 in (182 cm x 914 mm)
6' x 42": 72 in x 42 in (182 cm x 106 cm)

COMPONENT	ORIENTATION	DIMENSIONS	ITEM #	COLORS
ROD RAIL				
Rod Rail Kit Includes top rail, bottom rail, rods and mounting and support hardware.	Horizontal	6' x 36" Rod Rail Kit	XXXXRODD0636HRK	BKBK First color denotes rails, second color denotes infill.
		8' x 36" Rod Rail Kit	XXXXRODD0836HRK	
		6' x 42" Rod Rail Kit	XXXXRODD0642HRK	
		8' x 42" Rod Rail Kit	XXXXRODD0842HRK	
	Stair	6' x 36" Rod Rail Kit	XXXXRODD0636SRK	
		8' x 36" Rod Rail Kit	XXXXRODD0836SRK	
		6' x 42" Rod Rail Kit	XXXXRODD0642SRK	
		8' x 42" Rod Rail Kit	XXXXRODD0842SRK	
MESH RAILING				
Mesh Rail Kit Includes top rail, bottom rail, verticals, and mounting and support hardware. Mesh infill sold separately.	Horizontal	6' x 36" Mesh Railing Kit	XXAS0636PNLHRK	BZ BK
		8' x 36" Mesh Railing Kit	XXAS0836PNLHRK	
		6' x 42" Mesh Railing Kit	XXAS0642PNLHRK	
		8' x 42" Mesh Railing Kit	XXAS0842PNLHRK	
	Stair	6' x 36" Mesh Railing Kit	XXAS0636PNLSRK	
		8' x 36" Mesh Railing Kit	XXAS0836PNLSRK	
		6' x 42" Mesh Railing Kit	XXAS0642PNLSRK	
		8' x 42" Mesh Railing Kit	XXAS0842PNLSRK	

Dimensions above are nominals. See below for actuals and metrics.
6' x 36": 72 in x 36 in (182 cm x 914 mm)
6' x 42": 72 in x 42 in (182 cm x 106 cm)
6': 72 in (182 cm)
8' x 36": 96 in x 36 in (243 cm x 914 mm)
8' x 42": 96 in x 42 in (243 cm x 106 cm)

FIND A BUILDER ORDERING HELP DESIGN HELP

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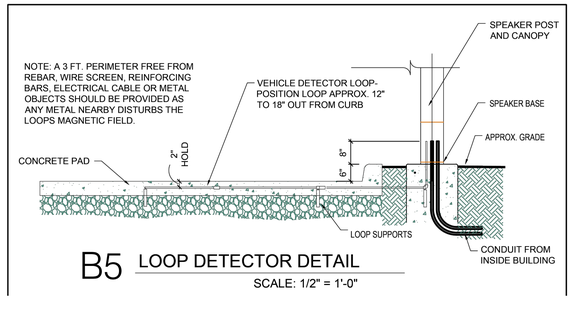
ACCESSORIES

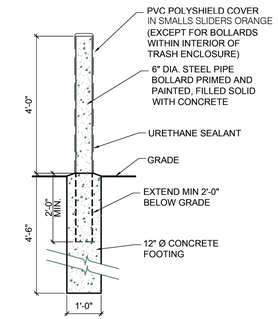
COMPONENT	DESCRIPTION	ORIENTATION	ITEM #	COLORS
IRC Aluminum Mounting Plate & Hardware Includes hardware for 2.5" IRC Trex Signature surface mount posts, 1 aluminum backer plate, 4 HG carriage bolts and 4 HG washers and nuts.	Surface mount post attachment hardware for wood substructure used to achieve IRC-compliant post attachment.	n/a	ALPOSTHWDECK	n/a
Concrete Post Mount Kit Includes (4) 3/8" x 3-3/4" (9.5 mm x 76 mm) expansion anchors, 4 flat washers and 4 hex nuts.	Surface mount post attachment hardware for concrete used to achieve IRC-compliant post attachment.	n/a	ALPOSTHWCONC	n/a
Fascia Mount Bracket - Wood Framing Includes fascia mount bracket.	Required for the mounting of Trex Signature joist mount post; for fascia mount applications only.	n/a	XXFMNTWOOD	WT BZ BK
Fascia Mount Post - Corner Kit Includes fascia mount bracket and hardware for 2.5" Trex Signature joist mount post.	Mounting bracket and hardware for joist mount double-corner posts, used for fascia-mounted Trex Signature railing installations. Fascia mount brackets also required. For wood frames only.	n/a	XXCORNERFMNTWOOD	WT BZ BK
Rod Rail Vertical Cut Kits Includes end verticals, anti-rattle straws and mounting hardware.	Use as an accessory for cut rod rail kit sections. Brackets not included.	Horizontal	XX36RODHVERTK	BK
			XX42RODHVERTK	
		Stair	XX36RODSVERTK	
			XX42RODSVERTK	
Mesh Rail Vertical Cut Kits Includes vertical supports, vertical gaskets, L-brackets and hardware.	Use as an accessory for cut mesh rail kit sections. Includes 1 bracket pack.	Horizontal	XX36MSHVERTK	BZ BK
			XX42MSHVERTK	
		Stair	XX36MSHSVERTK	
			XX42MSHSVERTK	
Trex Signature Bracket Templates Includes 1 reusable template.	Simplify bracket placement when installing Trex Signature aluminum railing with 4" x 4" Trex composite post sleeves.	Horizontal	SIGTEMPRX4X4SLEEVE	n/a
	Simplify bracket placement when installing Trex Signature aluminum posts.		SIGTEMPRCPOST	
Cocktail Rail Bracket Includes 10 brackets and 40 color-matched screws.	Mounting hardware to attach a deck board or 2" x 4" cocktail rail to the top rail of Trex Signature rail kits. Only Trex solid core boards can be used. Not compatible with Signature Glass railing or Signature X-Series railing.	n/a	XXCTBKTAL10PK	WT BZ BK

FIND A BUILDER ORDERING HELP DESIGN HELP

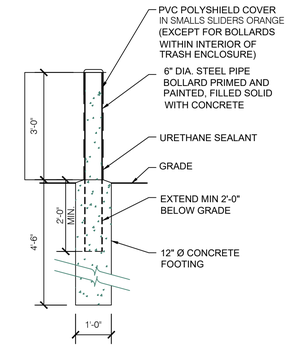
60



B5 LOOP DETECTOR DETAIL
SCALE: 1/2" = 1'-0"



A5 BOLLARD DETAIL
SCALE: 1/2" = 1'-0"



A6 BOLLARD DETAIL
SCALE: 1/2" = 1'-0"

A1 BALUSTER PANEL KIT
SCALE: N.T.S.

A3 CONCRETE POST MOUNT KIT
SCALE: N.T.S.

SMALLS SLIDERS
210 SW OLDHAM PKWY
LEES SUMMIT, MO 64081

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ARCHITECTURAL SITE DETAILS

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PROJECT NO: 252003

SHEET A1.02

DATE 10.08.25

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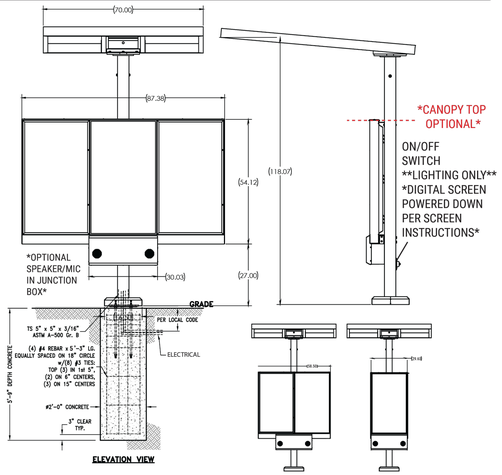
DT FLEX SAMSUNG AIO INSTRUCTIONS

INSTALL FOUNDATION AND LOCATION	PAGES 2-5
ELECTRICAL WIRING	PAGES 6
INSTALL CANOPY	PAGES 7-8
INSTALL SCREENS	PAGES 9-11
INSTALL GRAPHICS	PAGES 12

ONCE INSTALLED DO NOT TURN OFF POWER TO SYSTEM WITHOUT TURNING POWER OFF EACH DIGITAL SCREEN VIA REMOTE. SEE DIGITAL SCREEN INSTRUCTIONS (PACKED 1 PER SCREEN) FOR MORE INFORMATION



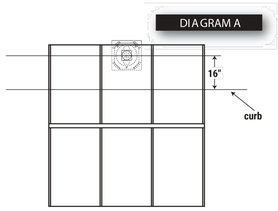
DT FLEX SAMSUNG AIO INSTRUCTIONS

1. Before beginning the installation, check that you have all the required hardware: w/foundation kit: (4) Anchor bolts, (8) Hex Nuts w/ unit: (4) Hex nuts, (8) Flat washers, (4) Lock washers

2. Determine whether the canopy will be installed on a curved or straight drive (see Diagrams A or B). Follow the proper detail for information about locating the canopy. Note: These diagrams are to be used as a guide only; if they cannot be followed exactl y, some modifications should be made to allow for the best suited location for your installation.

3. In the desired location, construct mounting post foundation referencing Diagram C and in accordance with local codes.

DIAGRAM A



CANOPY LOCATION/POSTIONING (STRAIGHT)

CAUTION EVALUATE WIDTH OF MENU. END OF MENU TO BE 12" OR MORE AWAY FROM CURB.

DIAGRAM C

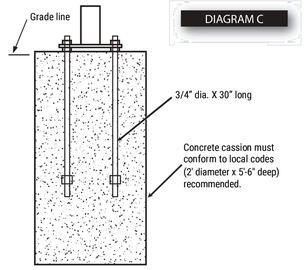
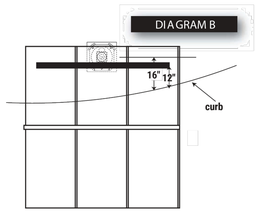


DIAGRAM B



FOUNDATION CONSTRUCTION **(below grade)**

DT FLEX SAMSUNG AIO INSTRUCTIONS

*SEE (FIG GR) FOR MAXIMUM CONDUIT LOAD EXAMPLE

DIAGRAM Q

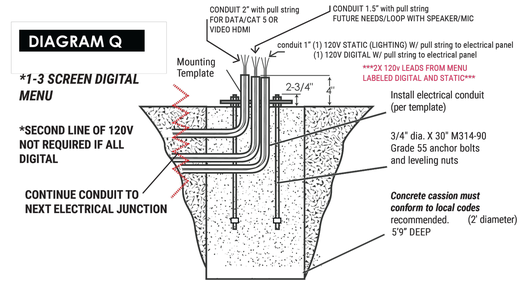
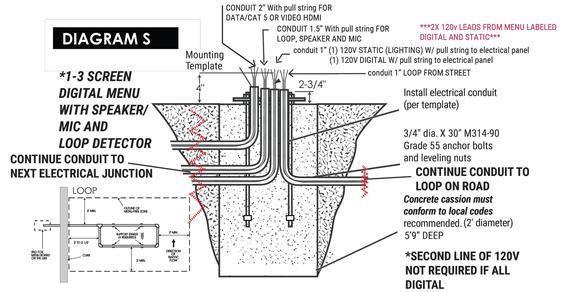
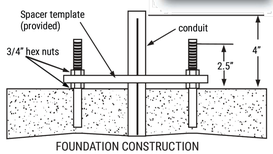


DIAGRAM S



DT FLEX SAMSUNG AIO INSTRUCTIONS

DIAGRAM D

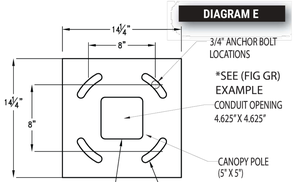


2X 120v LEADS FROM MENU LABELED DIGITAL AND STATIC

FOUNDATION CONSTRUCTION (above grade)

4. The high voltage conduit must be installed in place by a qualified contractor. It runs from the source power to the canopy location. A conduit stub should protrude 4" above the concrete slab. Power and ground leads should be pulled through the conduit approximately 30" beyond the conduit stub and accessible at the time of final wiring.

DIAGRAM E

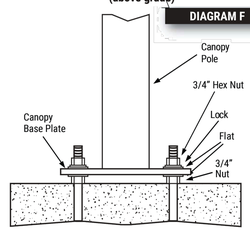


CANOPY POLE ANCHOR BOLT LOCATIONS (above grade)

5. After the concrete has set, remove the template and discard.

6. The canopy is ready to be mounted. Remove any concrete residue from the threads of the anchor bolts. Thread one nut onto each bolt until is stops; then put a flat washer over each bolt. place the unit onto the foundation making sure all of the anchor bolts are positioned in the corresponding canopy pole holes. Secure the unit with flat washers, lock washers, and 3/4" hex nuts (see Diagram F).

DIAGRAM F



CANOPY POLE MOUNTING

7. Level the unit by adjusting the upper and lower hex nuts until the canopy pole is level and tighten the nuts.

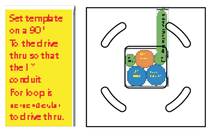
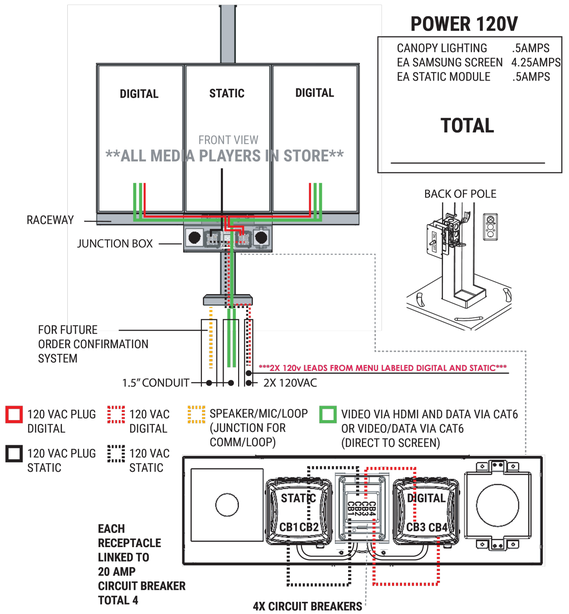


FIG GR

DT FLEX SAMSUNG AIO INSTRUCTIONS

WIRING DIAGRAM EXAMPLE

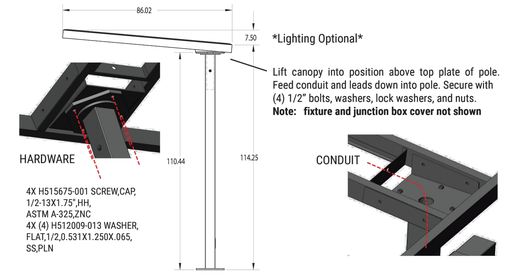


POWER 120V

CANOPY LIGHTING	.5AMPS
EA SAMSUNG SCREEN	4.25AMPS
EA STATIC MODULE	.5AMPS
TOTAL	

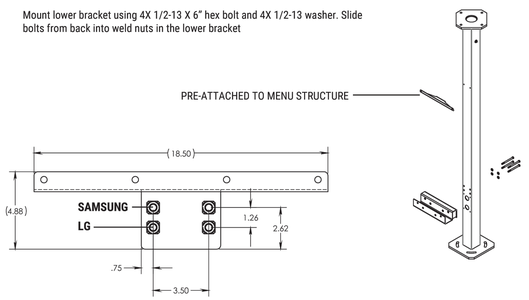
DT FLEX SAMSUNG AIO INSTRUCTIONS

STEP 1 INSTALL CANOPY TOP (SKIP TO STEP 2 IF NO CANOPY TOP)



STEP 2 INSTALL DT FLEX MOUNTING BRACKETS

Mount lower bracket using 4X 1/2-13 X 6" hex bolt and 4X 1/2-13 washer. Slide bolts from back into weld nuts in the lower bracket



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PROJECT NO: 252003

SHEET A1.03

DATE 10.08.25

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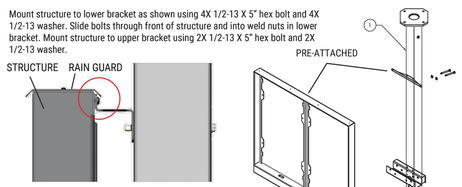
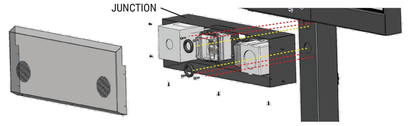
STEP 3 INSTALL DT FLEX STRUCTURE

Mount structure to lower bracket as shown using 4X 1/2-13 X 5" hex bolt and 4X 1/2-13 washer. Slide bolts through front of structure and into weld nuts in lower bracket. Mount structure to upper bracket using 2X 1/2-13 X 5" hex bolt and 2X 1/2-13 washer.



UPPER BRACKET FITS BETWEEN RAIN GUARD AND STRUCTURE

STEP 4 INSTALL DT FLEX JUNCTION BOX



Mount junction box to pole using 4X 1/4-20 X 1" PPH and 4X 1/4-20 washer as shown. Fit 2X 1.75" inside diameter grommets over electrical pass thrus between junction box and pole. The speaker and mic built into the junction box is optional. Speaker and mic can also be added as a wing to the menu structure. The cover fits over the junction box and covers the menu structure's bolt heads. 7 pin-in-torx screws secure the cover over the junction box. Leave cover off until all electrical connections are made.

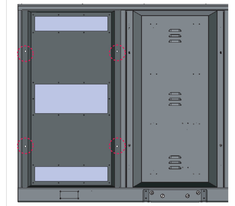
ASSEMBLY

STATIC/BACKLIT PANELS FACTORY INSTALLED*

DIGITAL SCREENS ARE PACKED IN THEIR ORIGINAL PACKAGING WITH BRACKETS FACTORY INSTALLED*

STEP 1 ACCESS REAR PANELS

Back panels for digital screen are factory installed. Remove back panels by using provided T45 driver to remove (4) pin-in-torx screws.

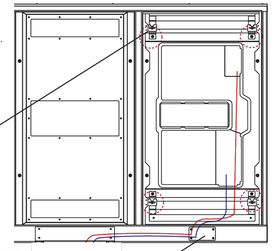


SCREEN MUST BE INSTALLED IN THE CORRECT ORIENTATION. POWER IS ON TOP AND THERE IS LABEL ON THE SCREEN INDICATING UP OR DOWN ON FRONT*

STEP 2 LOADING SCREEN

Place digital screen on top of support tube with the two bottom screws attached to the screen mounting brackets. Angle the display as shown so the screws set into the lower ear brackets (V-SHAPE). Tilt the screen up until it is vertical. Mount the top portion of the screen to the ear brackets with the provided hardware. Tighten all 4 connections to the ear bracket.

EAR BRACKET



CABLE ACCESS

STEP 3

After screen is attached feed power and data cabled required to pedestal base. Data cables most likely will come from the foundation to be routed to the screen. Plug in the power into the DIGITAL outlet. Not STATIC. See page 6 wiring example diagram.

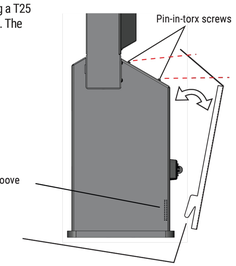
SCREEN ORIENTATION

STEP 4 SECURING SCREEN

Once in place add the (2) top screws to the screen mounting brackets. Tighten the bottom screws. Do not over tighten.

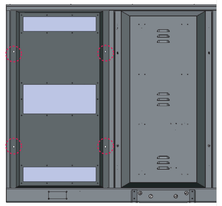
STEP 5 ACCESS PEDESTAL JUNCTION

Remove the back pedestal cover using a T25 driver to remove (4) pin-in-torx screws. The bottom of the cover fits into a groove and then is tilted into place. Review wiring diagram on page 6 and the following steps.



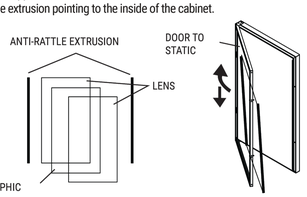
STEP 6 ATTACH REAR PANELS

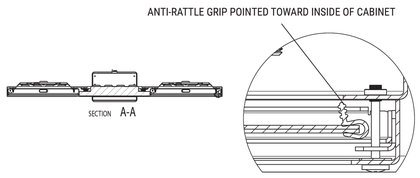
Back panels for digital screen are factory installed. Add back panels by using provided T45 driver to remove (4) pin-in-torx screws.



STEP 10 LOADING GRAPHIC INTO STATIC

Graphic is placed bewteen two lenses of .06" acrylic and held together with anti-rattle extrusion. The graphic carrier is then lift and dropped behind the door with the grips on the anti-rattle extrusion pointing to the inside of the cabinet.





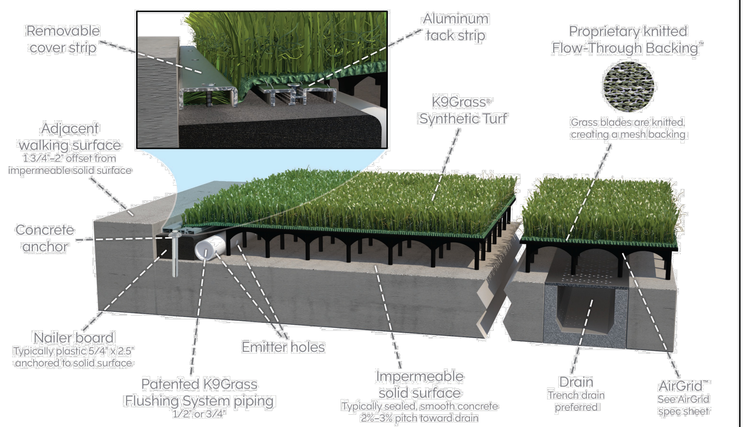
DETAIL B
SCALE 1 : 1

K9GRASS SYSTEM NOTES:
FRANCHISE:
- TO DISCUSS WITH FOREVERLAWN (NATIONAL ACCOUNTS VENDOR) REPRESENTATIVE WHICH SYSTEM IS RIGHT FOR THE STORE LOCATION AND NEEDS OF THE FRANCHISEE.
  - K9GRASS WITH PATENTED FLUSH SYSTEM AND AIRGRID
  - K9GRASS OFER AGREGATE ON STRUCTURE
- CONTRACT DIRECTLY WITH FOREVERLAWN.

ForeverLawn Synthetic Grass System

Installed over patented K9Grass Flushing System and AirGrid

K9Grass by ForeverLawn



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By	K. Karmie	03/25
Scale	Not to scale	
Drawing No.	M1334	

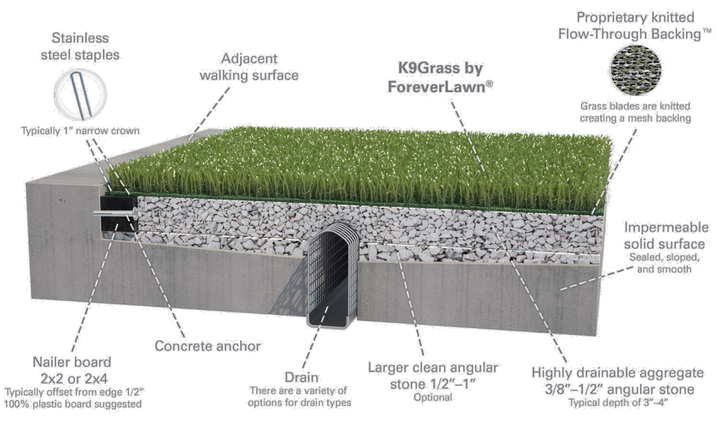
K9GRASS SYSTEM NOTES:
FOREVERLAWN (NATIONAL ACCOUNTS VENDOR) TO PROVIDE:
- K9GRASS ELITE WITH ALL INSTALLATION ACCESSORIES; EPS PERIMETER BOARD AND INSTALLATION; PROVIDE AND INSTALL 3"-4" OF 3/8" CLEAN ANGULAR STONE OR 2.5" OF 3/4" CLEAN ANGULAR STONE TOPPED WITH 1" OF 3/8" CLEAN ANGULAR STONE; PROFESSIONAL INSTALLATION INCLUDING LAYOUT, TRIMMING, AND REINFORCING SEAMING WITH SEAM TAPE AND GLUE (IF NEEDED); FOREVERLAWN 15-EAR PRODUCT WARRANTY AND 2-YEAR INSTALLATION WARRANTY.

GENERAL CONTRACTOR TO PROVIDE:
- EASY ACCESS TO THE WORK AREA FOR VENDOR CREW AND EQUIPMENT; NOTIFICATION OF ANY CHANGES TO THE SCOPE OF WORK PRIOR TO VENDOR START OF PROJECT; RECEIVE SHIPMENTS OF MATERIALS/PRODUCTS ON SITE; DRAINAGE SYSTEM AND ALL REQUIRED ACCESSORIES TO PROVIDE A COMPLETE WORKING DRAINAGE SYSTEM; IMPERMEABLE (SEALED. SLOPED, AND SMOOTH) DEPRESSED (MIN. 3") CONCRETE SLAB INSTALLED, PREPARED AND READY TO RECEIVE STONE LISTED IN VENDOR SECTION PRIOR TO VENDOR ARRIVING ON SITE; ALL SITE WORK NOT LISTED IN THE VENDOR SECTION.

K9Grass System

Installed over aggregate on structure

K9Grass by ForeverLawn



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By	K. Karmie	10/20
Scale	Not to scale	
Drawing No.	M1337	

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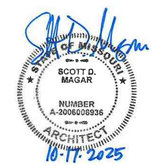

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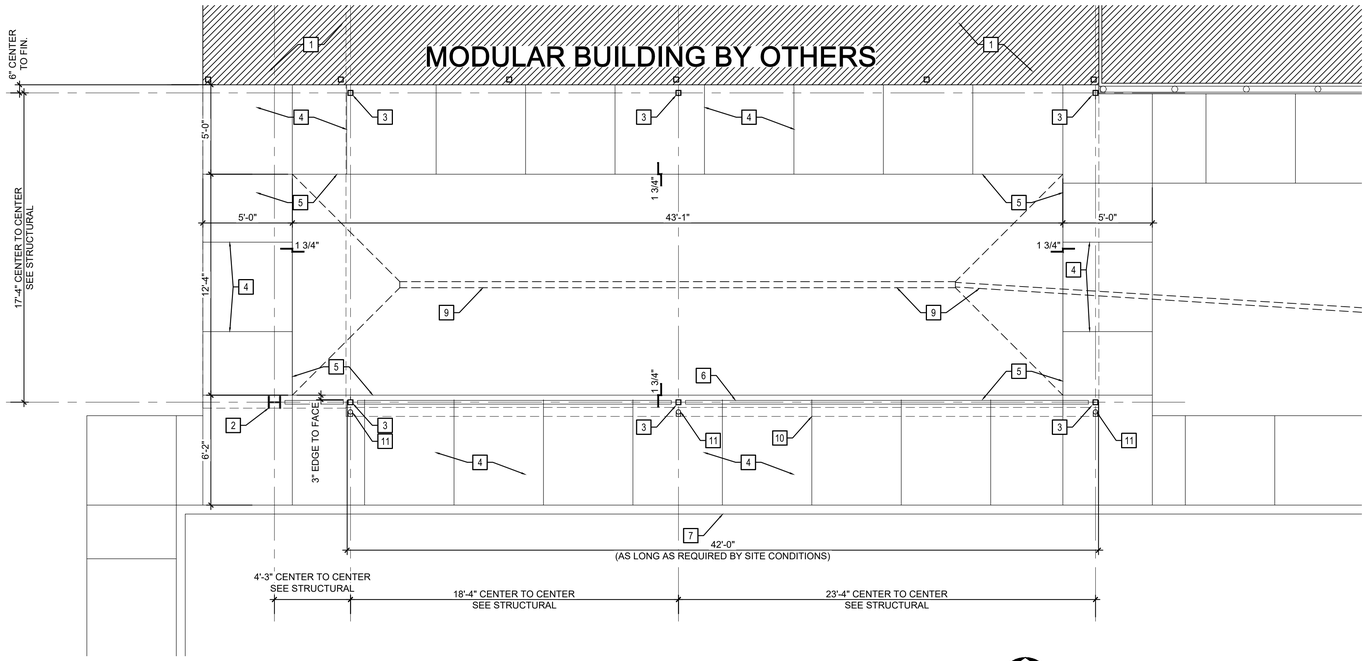


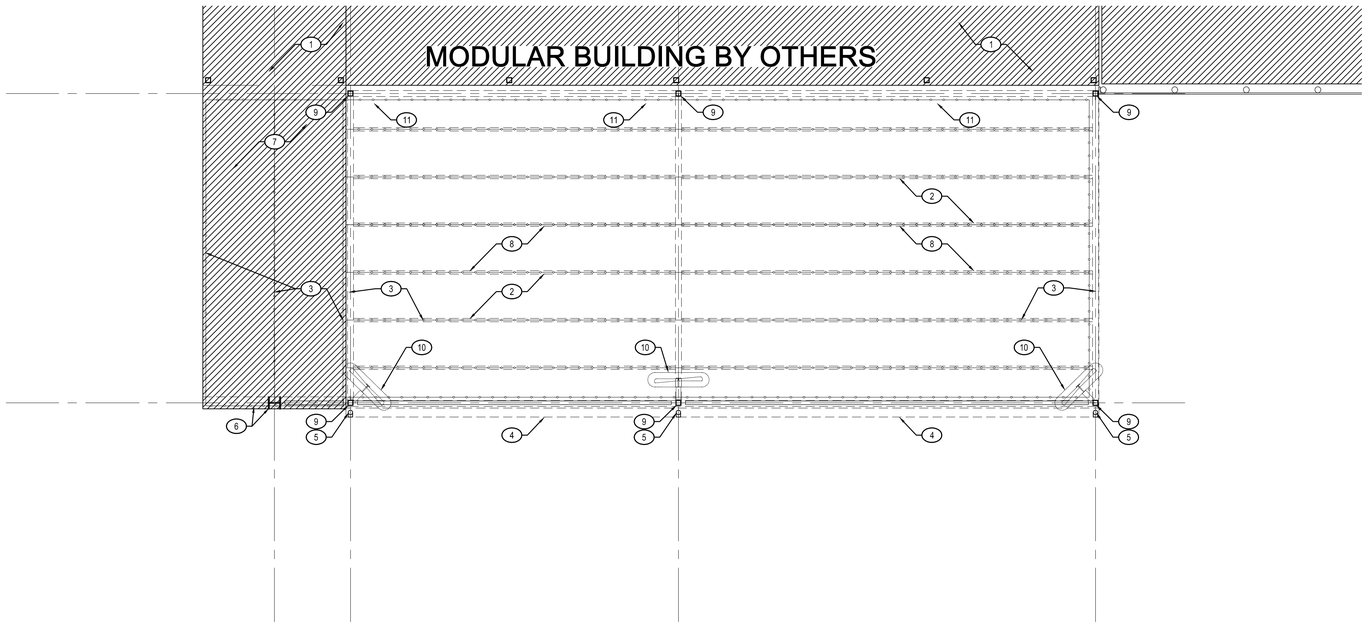
B1 A2.01 **ENLARGED PATIO PLAN**
1/4" = 1'-0"

NORTH

GENERAL NOTES:
1. 5'-0" MINIMUM SIDE WALK AROUND DEPRESSED SLAB.
2. 1-3/4" MINIMUM SLAB DEPRESSION.
3. ARTIFICIAL TURF SYSTEM TO BE PURCHASED BY THE FRANCHISEE AND INTALLED BY THE GC.
4. TRENCH DRAIN AND DOWNSPOUTS SHOULD BE TIED INTO SITE STORM DRAINAGE SYSTEM WHEN AVAILABLE.

KEY NOTES - ENLARGED PATIO PLAN

#	
1	MODULAR BUILDING BY OTHERS (SEE MODULAR BUILDING MANUFACTURER'S CONSTRUCTION DRAWINGS AT THE BACK OF THIS SET OF CONSTRUCTION DRAWINGS)
2	STRUCTURAL T-FRAME PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT FOR FERROUS METAL(S). SEE A3.01 FOR PAINT SPECIFICATIONS. SEE STRUCTURAL SHEETS FOR SPECIFICATIONS AND DETAILS.
3	TUBE STEEL COLUMNS PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT FOR FERROUS METALS. SEE A3.01 FOR PAINT SPECIFICATIONS. SEE STRUCTURAL SHEETS FOR SPECIFICATIONS AND DETAILS.
4	CONCRETE WALK. SEE CIVIL SHEETS FOR SPECIFICATIONS. MINIMUM WALK WIDTH AROUND PATIO PERIMETER SHALL BE 5'-0" WITH CONTRACTION JOINTS AT A MINIMUM OF 5'-0" O.C. AND EXPANSION JOINTS AT MAXIMUM OF 20'-0" O.C.
5	EDGE OF DEPRESSED SLAB FOR ARTIFICIAL TURF SYSTEM. MINIMUM DEPRESSION 1-3/4". GC TO TRENCH DRAIN IN BOTTOM OF DEPRESSION. SEE ARCHITECTURAL SITE PLAN DETAILS FOR ARTIFICIAL TURF SPECIFICATIONS AND INSTRUCTIONS.
6	TREX SIGNATURE RAILING FENCE KIT. INSTALL BETWEEN SIDE WALK AND DRIVE THRU LANES. SEE ARCHITECTURAL SITE PLAN DETAILS FOR SPECIFICATIONS. - NOT USED
7	CONCRETE CURB. SEE CIVIL DRAWINGS FOR SPECIFICATIONS.
8	CURB RAMP(S). SEE CIVIL DRAWINGS FOR SPECIFICATIONS.
9	TRENCH DRAIN AT BOTTOM OF DEPRESSION. TIE TO STORM DRAINAGE SYSTEM. SEE CIVIL SHEETS FOR STORM DRAINAGE SYSTEM.
10	MIN. 6"W X 4.5"D RECTANGULAR GUTTER ABOVE. SEE A3.01 FOR COLOR.
11	MIN. 3" PLAIN ROUND DOWNSPOUT(S). SEE A3.01 FOR COLOR.



A4 A2.01 **REFLECTED CEILING PLAN**
1/4" = 1'-0"

NORTH

GENERAL NOTES:
1. ALL INTERIOR LIGHTING IS BY THE MODULAR BUILDING MANUFACTURER AND INSTALLED THE MANUFACTURER AT THEIR FACILITIES.
2. ALL CANOPY LIGHTING, FANS, AND ASSOCIATED CONDUIT, WIRING AND JUNCTION BOXES ARE TO BE INSTALLED BY G.C.
3. SEE ELECTRICAL SHEETS IN THE MODULAR BUILDING MANUFACTURERS CONSTRUCTION DRAWINGS FOR ELECTRICAL FEED LANDING.

KEY NOTES - ENLARGED RCP

#	
1	MODULAR BUILDING BY OTHERS (SEE TO MODULAR BUILDING MANUFACTURER'S CONSTRUCTION DRAWINGS AT THE BACK OF THIS SET OF CONSTRUCTION DRAWINGS)
2	SEE STRUCTURAL SHEETS FOR CANOPY SPECIFICATIONS AND DETAILS.
3	EXTERIOR GRADE LED STRING LIGHTS ATTACHED TO THE BOTTOM OF THE STEEL PURLINS AND BEAMS TYP. (BASIS OF DESIGN; STRING LIGHTS - "PLT SOLUTIONS" MODEL #MS-24IN-330FT-165E26-14AWG; BULBS - "BRIMAX" MODEL #LMST452W-27-80-C). CHORD AND HOUSING: BLACK. INSTALLATION FULL LENGTH OF PERLINS NOT ACROSS.
4	MIN. 6"W X 4.5"D RECTANGULAR GUTTER. SEE A3.01 FOR COLOR.
5	MIN. 3" PLAIN ROUND DOWNSPOUT(S). TIE TO STORM DRAINAGE SYSTEM WITH MINIMUM 4" DIAMETER PVC PIPE. SEE CIVIL SHEETS FOR STORM DRAINAGE SYSTEM. SEE A3.01 FOR COLOR.
6	TUBE STEEL COLUMNS PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT FOR FERROUS METAL(S). SEE A3.01 FOR PAINT SPECIFICATIONS. SEE STRUCTURAL SHEETS FOR SPECIFICATIONS AND DETAILS.
7	SHIPPING CONTAINER ABOVE BY OTHERS. SEE A3.01 FOR PAINT SPECIFICATIONS. SEE STRUCTURAL AND MODULAR BUILDING CONSTRUCTION DRAWINGS FOR SUPPORT SPECIFICATIONS.
8	CANOPY BEAMS AND PURLINS PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT DESIGNED FOR FERROUS METALS. SEE A3.01 FOR PAINT SPECIFICATIONS. SEE STRUCTURAL SHEETS FOR FRAMING OF ROOF.
9	TUBE STEEL COLUMNS PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT FOR FERROUS METALS. SEE A3.01 FOR PAINT SPECIFICATIONS. SEE STRUCTURAL SHEETS FOR SPECIFICATIONS AND DETAILS.
10	OSCILLATING FAN MOUNTED TO THE SIDE OF THE STEEL COLUMN. SEE ME SHEETS FOR SPECIFICATIONS.
11	WALL PACK LIGHT FIXTURES. TYPICAL SEVEN (7) AROUND THE BUILDING. SEE ME SHEETS FOR SPECIFICATIONS AND LOCATIONS.

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ENLARGED PATIO PLAN AND REFLECTED CEILING PLAN

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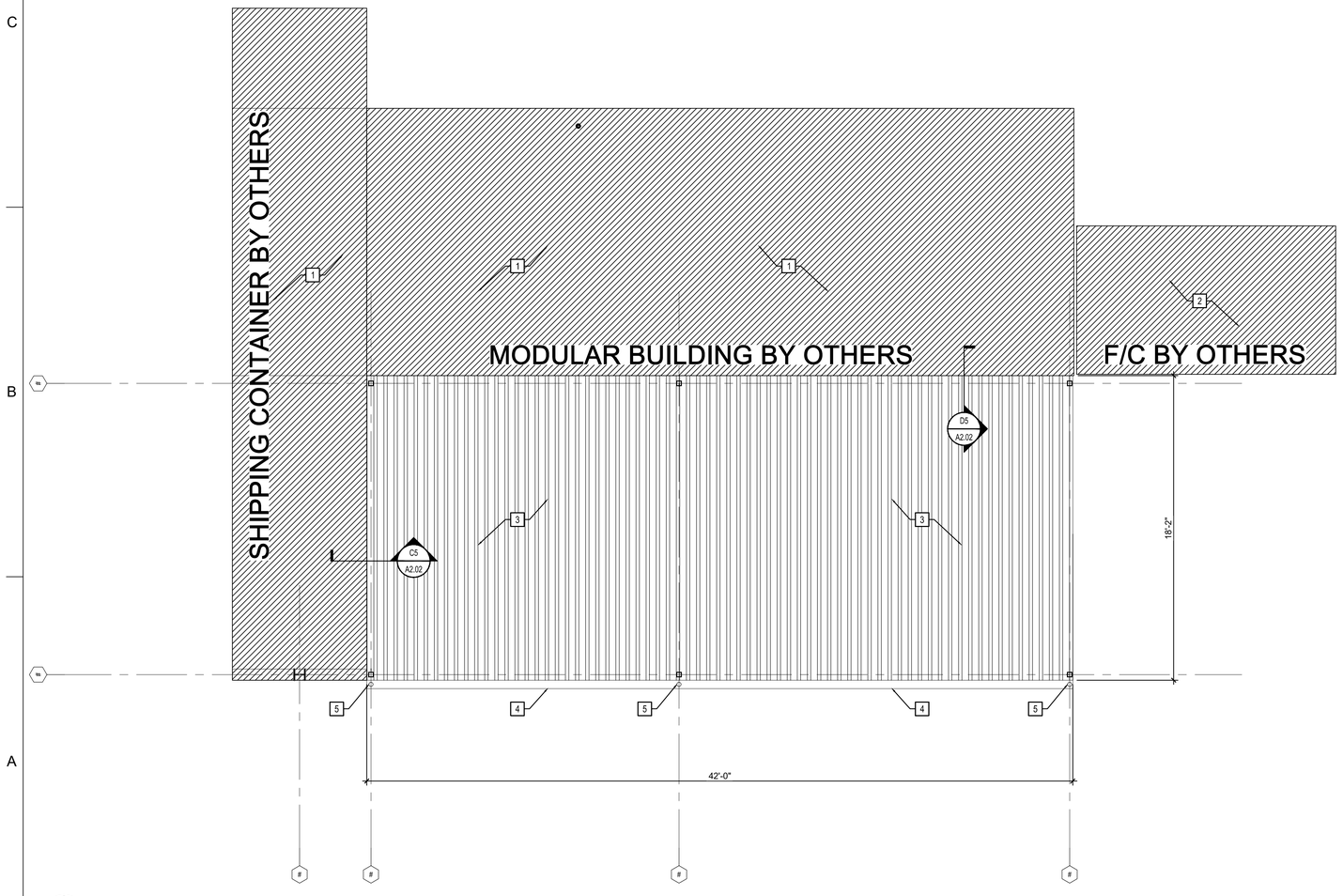
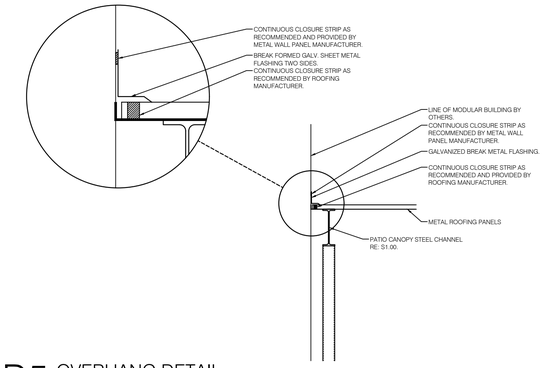
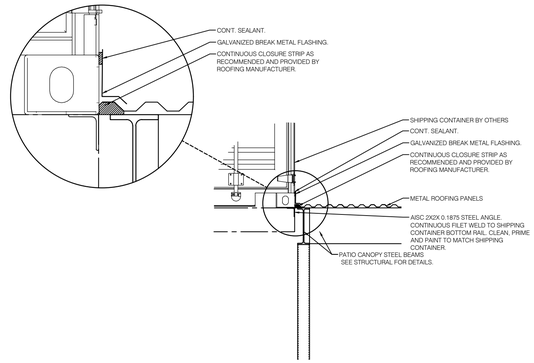


A1 ROOF PLAN
SCALE: 1/4" = 1'-0"



D5 OVERHANG DETAIL
SCALE: 1/2" = 1'-0"



C5 OVERHANG DETAIL
SCALE: 1/2" = 1'-0"

#	KEY NOTES - ROOF PLAN
1	MODULAR BUILDING ROOF BY OTHERS (REFER TO MODULAR BUILDING MANUFACTURER'S CONSTRUCTION DRAWINGS AT THE BACK OF THIS SET OF CONSTRUCTION DRAWINGS)
2	FREEZER/COOLER BOX ROOF BY OTHERS.
3	MCELROY 1 $\frac{1}{2}$",18 GA. GAVALUME MEGA-RIB PANELS. COLOR TO MATCH BUILDING.
4	MIN. 6"W X 4.5"D RECTANGULAR GUTTER ABOVE, SEE A3.01 FOR COLOR.
5	MIN. 3" PLAIN ROUND DOWNSPOUT(S). TIE TO STORM DRAINAGE SYSTEM WITH MINIMUM 4" DIAMETER PVC PIPE. SEE CIVIL SHEETS FOR STORM DRAINAGE SYSTEM. SEE A3.01 FOR COLOR.

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ROOF PLAN AND DETAILS

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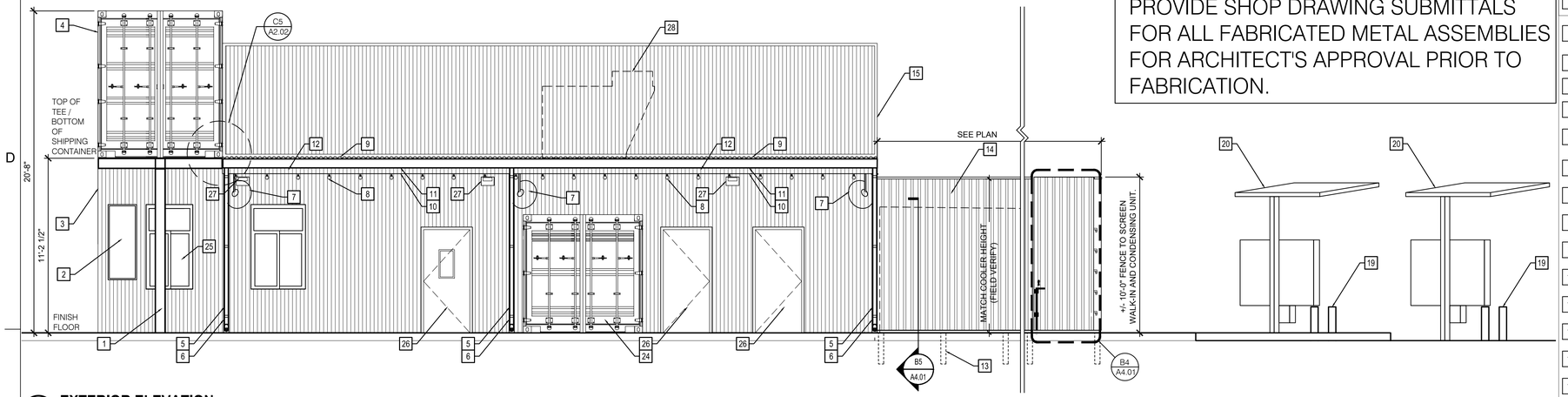
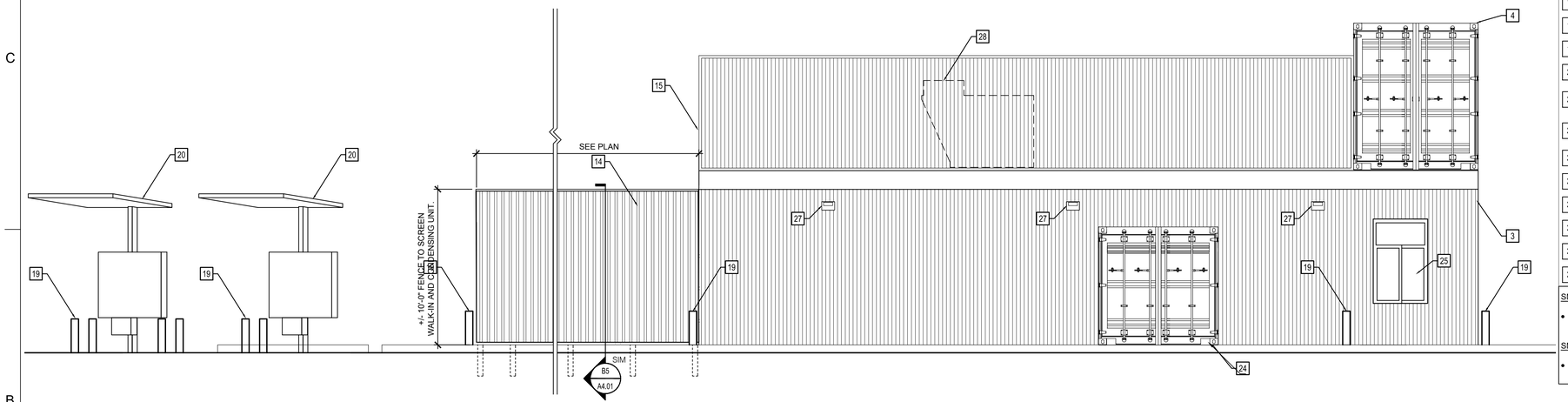
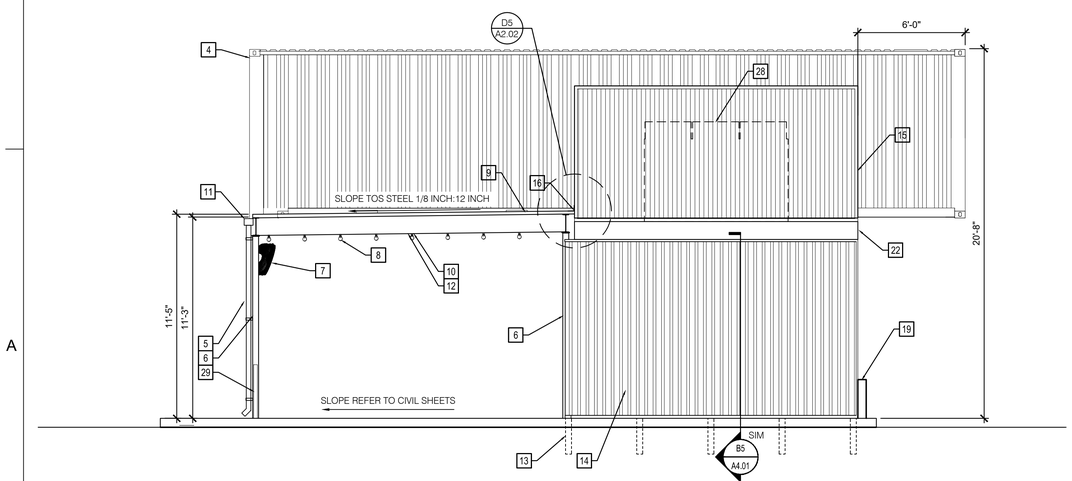
PROVIDE SHOP DRAWING SUBMITTALS FOR ALL FABRICATED METAL ASSEMBLIES FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION.



C4 A3.01 **EXTERIOR ELEVATION**
1/4" = 1'-0"



B4 A3.01 **EXTERIOR ELEVATION**
1/4" = 1'-0"



A4 A3.01 **EXTERIOR ELEVATION**
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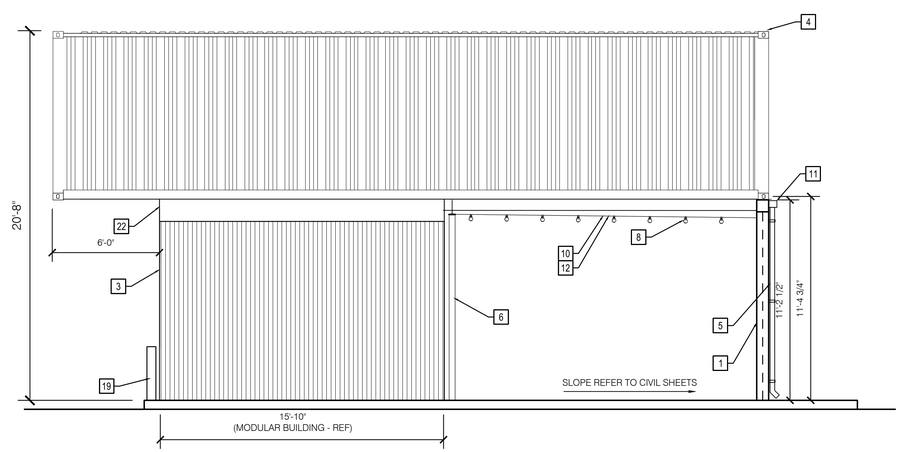

A2 A3.01 **EXTERIOR ELEVATION**
1/4" = 1'-0"

KEY NOTES - EXTERIOR ELEVATIONS

#	
1	STRUCTURAL T-FRAME PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT FOR FERROUS METAL(S). COLOR: SMALLS ORANGE (SMORANGE). SEE STRUCTURAL SHEETS FOR SPECIFICATIONS AND DETAILS.
2	WALKUP MENU BOARD. FRAME COLOR: MIDNIGHT BRONZE.
3	MODULAR BUILDING MANUFACTURER - SEE G0.01. COLOR: MIDNIGHT BRONZE WITH SMALLS ORANGE TRIM (SMORANGE)
4	SMALLS ORANGE (SMORANGE) SHIPPING CONTAINER PROVIDED AND INSTALLED BY MODULAR BUILDING MANUFACTURER.
5	PRE-FINISHED ALUMINUM DOWNSPOUT (TYPICAL 3). COLOR: ORANGE TO MATCH COLUMN IT IS ATTACHED - SMALLS ORANGE (SMORANGE).
6	TUBE STEEL COLUMNS PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT FOR FERROUS METALS. COLOR: SMALLS ORANGE (SMORANGE). SEE STRUCTURAL SHEETS FOR SPECIFICATIONS AND DETAILS.
7	OSCILLATING FAN MOUNTED TO THE SIDE OF THE STEEL COLUMN. COLOR: BLACK. SEE ME SHEETS FOR SPECIFICATIONS.
8	EXTERIOR GRADE LED STRING LIGHTS ATTACHED TO THE BOTTOM OF THE STEEL PURLINS AND BEAMS TYP. (BASIS OF DESIGN "PLT SOLUTIONS" MODEL #MS-24IN-330FT-165E26-14AWG OR PRE-APPROVED EQUAL), CHORD AND HOUSING COLOR: BLACK.
9	MCELROY 1 ¾", 18 GA. GAVALUME MEGA-RIB PANELS. COLOR TO MATCH BUILDING: MIDNIGHT BRONZE.
10	CANOPY BEAMS AND PURLINS PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT DESIGNED FOR FERROUS METALS. COLOR: SMALLS ORANGE (SMORANGE). SEE STRUCTURAL SHEETS FOR FRAMING OF ROOF.
11	MIN. 6"W X 4.5"D RECTANGULAR PRE-FINISHED GUTTER. COLOR TO MATCH BEAM IT IS ATTACHED - SMALLS ORANGE (SMORANGE). (DESIGNER NOTE - SIZE PER SITE LOCATION)
12	CANOPY BEAMS AND PURLINS PRIMED AND PAINTED WITH COMMERCIAL EXTERIOR GRADE PAINT DESIGNED FOR FERROUS METALS. COLOR: SMALLS ORANGE (SMORANGE). SEE STRUCTUARL SHEETS FOR FRAMING OF ROOF.
13	4 IN. DIA. GALVANIZED STEEL FENCE POST. COLOR: MIDNIGHT BRONZE.
14	MODULAR BUILDING MANUFACTURER TO PROVIDE PANELS MATCHING MODULAR BUILDING. COLOR: MIDNIGHT BRONZE. GENERAL CONTRACTOR TO INSTALL / FASTEN PANELS TO GALVANIZED HORIZONTAL RAILS. FENCING TO SCREEN WALK-IN C/F AND CONDENSING UNIT.
15	PARAPETS BY MODULAR BUILDING MANUFACTURER (SEE TO MODULAR BUILDING MANUFACTURER'S CONSTRUCTION DRAWINGS AT THE BACK OF THIS SET OF CONSTRUCTION DRAWINGS). COLOR TO MATCH MODULAR BUILDING - MIDNIGHT BRONZE.
16	FLASHING. SEE DETAILS.
17	4X8 WELDED GALVANIZED 2X2 STEEL TUBE GATE FINISHED WITH METAL PANEL. WELD HEAVY DUTY HINGES TO GATE AND ADJACENT Ø4' POST
19	PIPE BOLLARD. COLOR: SMALLS ORANGE (SMORANGE). SEE CIVIL SHEETS FOR FINAL LOCATIONS.
20	DRIVE THRU ORDER POINT WITH INTEGRAL CANOPY TOP. COLOR: MIDNIGHT BRONZE. (DESIGNER NOTE - LOCATION SITE DEPENDANT, NOT SHOWN IN THIS SET)
22	TRIM BAND BY MODULAR BUILDING MANUFACTURER (SEE MODULAR BUILDING MANUFACTURER'S CONSTRUCTION DRAWINGS AT THE BACK OF THIS SET OF CONSTRUCTION DRAWINGS). COLOR: SMALLS ORANGE (SMORANGE).
23	DUMPSTER PAD ENCLOSURE. SEE CIVIL SHEETS FOR LOCATION AND ORIENTATION. SEE A4.01 FOR SPECIFICATIONS. COLOR: COMPOSITE FENCING, FENCE POSTS, GATE POSTS, TO MATCH BUILDING - MIDNIGHT BRONZE. (DESIGNER NOTE - LOCATION SITE DEPENDANT, NOT SHOWN IN THIS SET)
24	FALSE SHIPPING CONTAINER DOOR BY MODULAR BUILDING MANUFACTURER. COLOR: SMALLS ORANGE (SMORANGE).
25	WALKUP/DRIVE THRU WINDOWS BY MODULAR BUILDING MANUFACTURER. FRAME COLOR: MIDNIGHT BRONZE.
26	DOORS BY MODULAR BUILDING MANUFACTURER. DOOR AND FRAME COLOR: MIDNIGHT BRONZE.
27	WALL PACK LIGHT FIXTURE. TYPICAL SEVEN (7) AROUND THE BUILDING. SEE ME SHEETS FOR SPECIFICATIONS AND LOCATIONS.
28	ANTICIPATED EXTENT OF TALLEST MECHANICAL EQUIPMENT ON ROOF. PARAPET TO FULLY SCREEN ALL ROOF EQUIPMENT.
29	TREX SIGNATURE RAILING KIT. SEE ARCHITECTURAL SITE PLAN FOR EXTENTS.

SMALLS ORANGE (SMORANGE) PAINT FORMULA FOR ONE GALLON SIZE CAN:

- SW HYDROCHROMA PRECISION COLOR - LOWE'S ITEM #77957 EXTERIOR DURAMAX, SEMI-GLOSS, BASE 4 8913-8y25 8964-5y10 8920-.25

SMALLS ORANGE (SMORANGE) PAINT FORMULA FOR FIVE GALLON SIZE CAN:

- SW HYDROCHROMA PRECISION COLOR - LOWE'S ITEM #10605 EXTERIOR DURAMAX, SEMI-GLOSS, BASE 4 8913-8y25 8913-42y29 8920-1.25

smalls SLIDERS

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NUMBER A-2006038936
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EXTERIOR ELEVATIONS

REVISIONS NO.	DATE
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PROJECT NO: 252000

SHEET A3.01

DATE ##.##.20##

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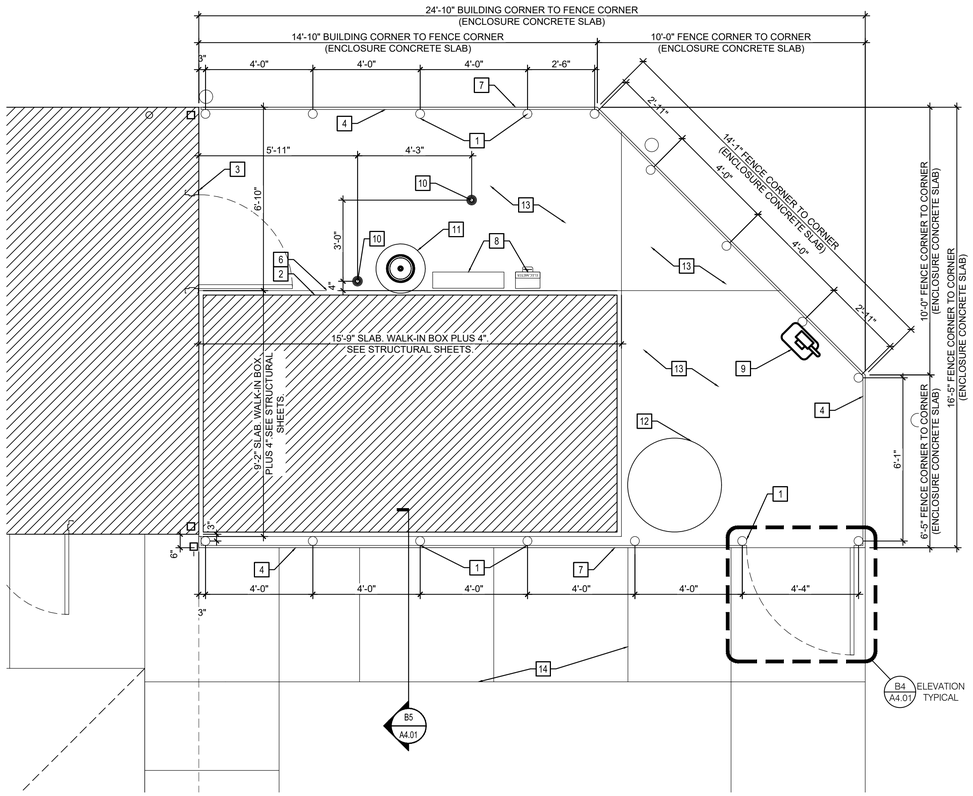
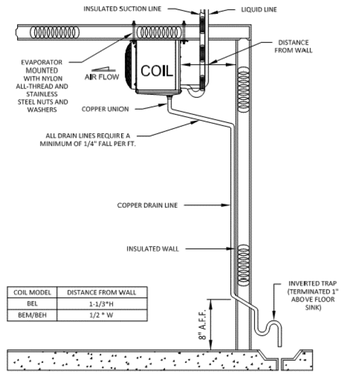


COOLER FENCE ENCLOSURE PLAN

B4 / A4.01 — 3/8" = 1'-0"

#	KEY NOTES - COOLER ENCLOSURE
1	4 IN. DIA. GALVANIZED STEEL FENCE POST. QUANTITY VARIES BY ENCLOSURE DIMENSIONS. COLOR: MIDNIGHT BRONZE.
2	FREEZER/COOLER WALK-IN BOX BY OTHERS. COLOR: TO MATCH BUILDING - MIDNIGHT BRONZE.
3	MODULAR BUILDING BY OTHERS (SEE MODULAR MANUFACTURER'S CONSTRUCTION DRAWINGS AT THE BACK OF THIS SET OF CONSTRUCTION DRAWINGS). SEE A3.01 FOR COLORS.
4	MODULAR BUILDING MANUFACTURER TO PROVIDE PANELS MATCHING MODULAR BUILDING. COLOR: MIDNIGHT BRONZE. GENERAL CONTRACTOR TO INSTALL / FASTEN METAL PANELS TO 18 GA. GALV. 2X4 STEEL STUD RAILS
5	4X8 WELDED GALVANIZED 2X2 STEEL TUBE GATE FINISHED WITH METAL PANEL. WELD HEAVY DUTY HINGES TO GATE AND ADJACENT Ø4' POST. COLOR: MIDNIGHT BRONZE.
6	FREEZER/COOLER WALK-IN CONCRETE PAD. MINIMUM 2" WIDER THAN WALK-IN BOX ALL SIDES. POUR SLAB LEVEL. SEE STRUCTURAL SHEET FOR CONCRETE SPECIFICATIONS.
7	EDGE OF UTILITY CONCRETE SLAB.
8	PROPOSED LOCATION FOR CT/METER/DISCONNECT RACK. SEE ME SHEETS FOR SPECIFICATIONS. SEE CIVIL SHEETS FOR PROPOSED ROUTING OF FEEDS. COORDINATE WITH LOCAL UTILITY PROVIDER. SET ON UNISTRUT RACK. APPLY TWO COATS OF WEATHER RESISTANT PAINT. COLOR: GREEN.
9	PROPOSED LOCATION FOR GAS METER. SEE CIVIL SHEETS FOR PROPOSED ROUTING OF FEEDS. COORDINATE WITH LOCAL UTILITY PROVIDER.
10	DRAIN. TIE TO STORM DRAINAGE SYSTEM.
11	CO2 TANK. FIELD VERIFY LOCATION. PLACEMENT SHOULD NOT HINDER STORE PRODUCT DELIVERY AND REFUSE REMOVAL.
12	DARPRO TANK. FIELD VERIFY LOCATION. PLACEMENT SHOULD NOT HINDER STORE PRODUCT DELIVERY AND REFUSE REMOVAL.
13	3,000 PSI CONCRETE UTILITY PATIO. MIN. 4" SLAB REINFORCED WITH 6 X 6 W1.4 X W1.4 WWF AND EXPANSION JOINTS AT A MAXIMUM OF 20'-0" O.C.
14	CONCRETE WALK. SEE CIVIL SHEETS FOR SPECIFICATIONS. MINIMUM WALK WIDTH SHALL BE 5'-0" WITH CONTRACTION JOINTS AT A MINIMUM OF 5'-0" O.C. AND EXPANSION JOINTS AT A MAXIMUM OF 20'-0".

EVAPORATOR MOUNTING DETAIL (TYPICAL)

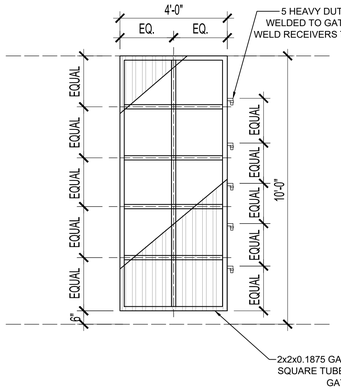


COIL MODEL	DISTANCE FROM WALL
BEL	1-1/3"H
BEM/BEH	1/2 " W

CONDENSATE DRAIN TO SANITARY SEWER

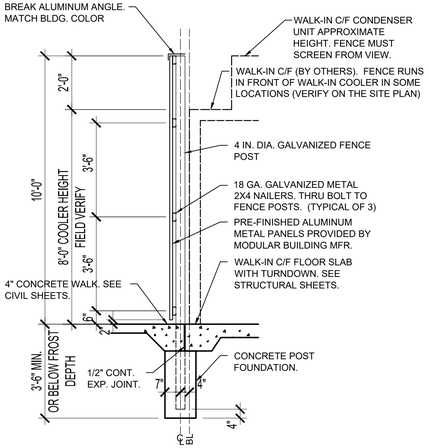
C1 / A4.01 — N.T.S.

PROVIDE SHOP DRAWING SUBMITTALS FOR ALL FABRICATED METAL ASSEMBLIES FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION.



METAL GATE DETAIL

B4 / A4.01 — 3/8" = 1'-0"



TYPICAL WALL SECTION

B5 / A4.01 — 3/8" = 1'-0"

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WALK-IN BOX FENCE ENCLOSURE AND DETAILS

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SHEET A4.01

DATE 10.08.25

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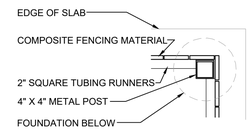
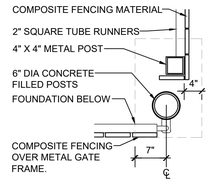
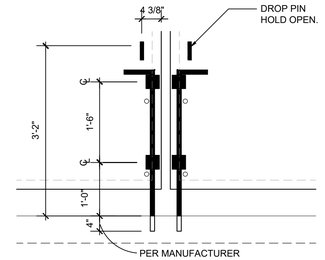


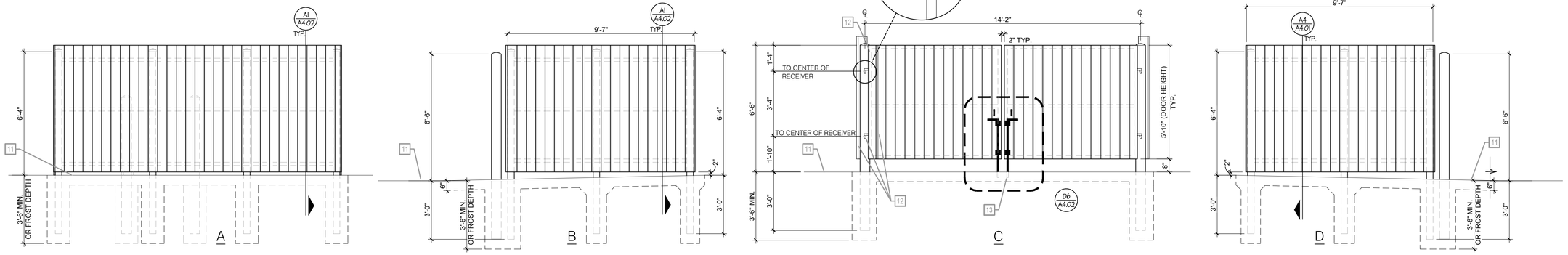
D4 A4.02 **GATE DETAIL**
3/4" = 1'-0"



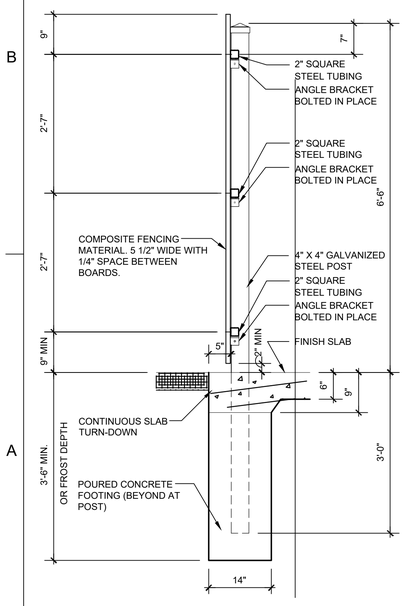
D5 A4.02 **GATE DETAIL**
3/4" = 1'-0"



D6 A4.02 **GATE DETAIL**
3/4" = 1'-0"

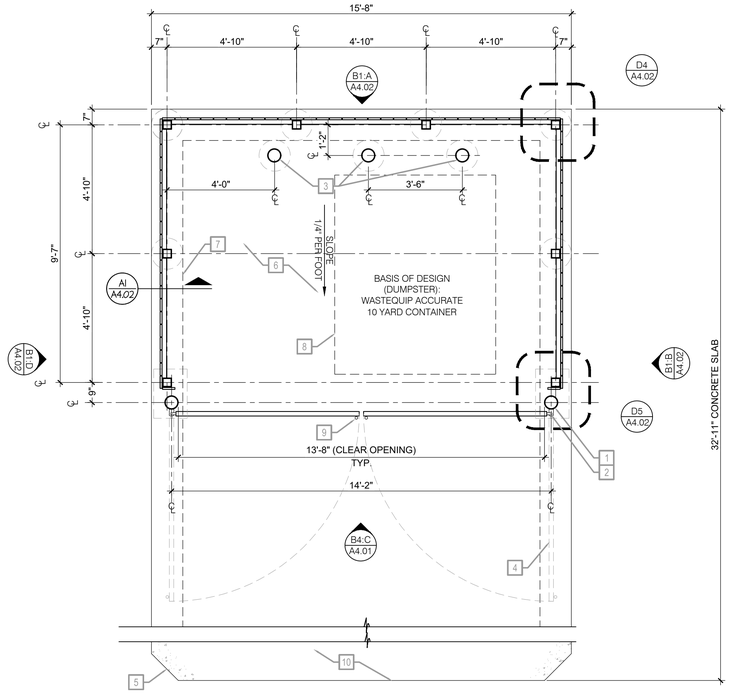


B1 A4.02 **TRASH ENCLOSURE ELEVATIONS**
3/8" = 1'-0"



A1 A4.02 **TRASH ENCLOSURE SECTION**
3/4" = 1'-0"

#	KEY NOTES - TRASH ENCLOSURE
1	6" DIA. STEEL HINGE POSTS PROVIDED BY FENCING CONTRACTOR. FILL WITH CONCRETE WITH DOMED TOP. PAINT MIDNIGHT BRONZE.
2	GATE HARDWARE INCLUDING HINGE POSTS, HINGES AND DROP PIN ASSEMBLY PROVIDED BY FENCING CONTRACTOR. PAINT ALL HARDWARE ITEMS MIDNIGHT BRONZE.
3	(4) 6" DIA. STEEL BOLLARDS FILLED WITH CONCRETE WITH DOMED TOP. PAINT SAFETY YELLOW. 4'-0" HIGH, EMBED 3'-0" MIN. IN 12" DIAMETER CONCRETE FOOTING TO FROST DEPTH
4	DRILL HOLES IN CONCRETE TO RECEIVE DROP PIN, TYPICAL AT EACH DOOR AT 90 DEGREE OPEN POSITION
5	CHAMFER CORNERS AT EDGE OF ASPHALT 12" (TYP.)
6	DRILL HOLES IN CONCRETE TO RECEIVE DROP PIN, INSTALL PVC SLEEVE, TYPICAL AT EACH DOOR AT CLOSED POSITION
7	LINE OF FOOTING BELOW
8	TRASH DUMPSTER AREA. CHECK SITE PLAN FOR SIZE & LOCATION
9	6" CONCRETE SLAB W/6X6 WIRE MESH (SEAL CONCRETE SLAB AGAINST GREASE ABSORPTION)
10	6" CONCRETE APRON
11	PAVEMENT, SEE CIVIL SHEETS FOR SPECIFICATIONS.
12	GATE FRAME, HINGES AND DECK PLATE FACING PROVIDED BY FENCING CONTRACTOR, PAINT MIDNIGHT BRONZE
13	DROP PIN HOLD OPEN PROVIDED BY FENCING CONTRACTOR AND INSTALLED BY GC
14	GATE FRAME. PAINT MIDNIGHT BRONZE.
15	5/8" ADJUSTABLE HINGE
16	HINGE TAB. PAINT MIDNIGHT BRONZE.



A3 A4.02 **TRASH ENCLOSURE PLAN**
3/8" = 1'-0"

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TRASH ENCLOSURE

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GENERAL NOTES:

1. THESE NOTES SHALL APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
2. CONTRACT DOCUMENTS INCLUDE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS OR OTHER SUBMITTALS BY THE CONTRACTOR.
3. ALL REFERENCED STANDARDS SHALL BE OF THE EFFECTIVE DATE NOTED IN THE GOVERNING BUILDING CODE.
4. ALL INSPECTIONS , SPECIAL INSPECTIONS OR OTHERWISE, REQUIRED BY THE BUILDING CODE, LOCAL BUILDING DEPARTMENT OR THESE PLANS SHALL BE PERFORMED BY AN INDEPENDENT TESTING COMPANY ENGAGED BY THE PROJECTOWNER.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPENCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS. DO NOT SCALE FOR DIMENSIONS NOT SHOWN
6. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE REVIEW OF THE ARCHITECT AND ENGINEER-OF-RECORD.
7. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
8. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS.
9. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING OFFICIAL REGARDING SUBMITTAL OF INSPECTION REPORTS TO THE BUILDING DEPARTMENT.
10. THE STRUCTURE DESCRIBED BY THESE DRAWINGS IS SELF SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY BRACING AND SHORING OF ALL WORK.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING SHORING AND PROTECTION OF ANY ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.
12. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF AND WALL PENETRATIONS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER-OF-RECORD.
13. COORDINATE WITH OTHER DISCIPLINE DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, RUSTICATIONS, SLOTS, SLEEVES, ANCHORS AND INSERTS.
14. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF RAILINGS, LADDERS, RACK STORAGE SYSTEMS OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
15. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF CONCENTRATED LOADS FROM PLUMBING, MECHANICAL, PARTITIONS OR HVAC EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS.
16. DO NOT HANG OR ATTACH DUCTWORK, PIPING, LIGHTING, CONDUIT, EQUIPMENT, CEILINGS, ETC. FROM METAL DECKING.
17. THE GENERAL CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
18. REVIEW OF SUBMITTALS AND SHOP DRAWINGS BY THE ARCHITECT AND STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLEY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

DESIGN CRITERIA :

1. STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE WITH ALL CURRENT MO AMENDMENTS.
2. LIVE LOADS:
   - ROOF LEVEL: 20.0 PSF (REDUCIBLE AS PER CODE)
3. DEAD LOADS
   - ROOF LEVEL: 20.0 PSF
4. SNOW LOADS
   - GROUND SNOW LOAD: 20 PSF
   - FLAT ROOF SNOW LOAD: 14 PSF
   - C_e: 1.0
   - C_t: 1.0
   - IMPORTANCE FACTOR (I_s): 1.0
5. WIND LOADS
   - ULTIMATE WIND SPEED (Vult): 110 MPH
   - NOMINAL WIND SPEED (Vasd): 86 MPH
   - RISK CATAGORY: II
   - WIND EXPOSURE: C
   - INTERNAL PRESSURE COEFFICENT: +0.18 OR -0.18
6. SEISMIC DESIGN CRITERIA:
   - SEISMIC IMPORTANCE FACTOR: 1.0
   - RISK CATEGORY: II
   - MAPPED ACCELERATIONS:
     - S_S: 0.1 S_1: 0.068
   - SITE CLASS DEFINITION: D (ASSUMED)
   - SPECTRAL RESPONSE COEFFICIENT:
     - S_{DS}: 0.107 S_{D1}: 0.109
   - SEISMIC DESIGN CATEGORY: B
   - RESPONSE MODIFICATION COEFFICIENT (R): 3.0
   - SEISMIC RESPONSE COEFFICIENT (C_S): 0.01
   - SEISMIC FORCE RESISTING SYSTEM:
     STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
   - DESIGN BASE SHEAR: 10 KIPS
   - ANALYSIS PROCEDURE: EQUVALENT LATERAL FORCE

FOUNDATION NOTES:

1. SINCE GEOTECHNICAL DESIGN INFORMATION WAS NOT AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, THE FOLLOWING ASSUMPTIONS WERE MADE: MINIMUM DESIGN SOIL BEARING PRESSURE = 1,500 PSF, MAXIMUM SETTLEMENT = 3/4", MAXIMUM DIFFERENTIAL SETTLEMENT = 1/2". THE SOIL BEARING PRESSURE SHALL BE VERIFIED AT TIME THE OF EXCAVATION AND THE STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED IF THE ACTUAL SOIL BEARING PRESSURE IS LOWER THAN THE ASSUMED MINIMUM DESIGN SOIL PRESSURE.
2. ALL FOOTINGS MUST BEAR ON ORIGINAL UNDISTURBED SOIL OR STRUCTURAL FILL AND HAVE A MINIMUM 12" OF COVER TO BOTTOM OF FOUNDATION.
3. PRIOR TO POURING CONCRETE, ALL DEBRIS, WATER, AND LOOSE EARTH SHALL BE REMOVED FROM THE FOUNDATION BED. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN ANDMAY BE EXPOSED TO RAINFALL, THE EXCAVATION SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.
4. COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH ADJACENT FOOTINGS AT THE SAME ELEVATION.
5. REMOVE ALL ORGANIC SOILS AND REPLACE WITH APPROVED STRUCTURAL FILL AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER. COMPACT ALL FILL WITHIN 10 FEET OF THE BUILDING LIMITS TO 95% STANDARD PROCTOR.
6. DO NOT BACKFILL AGAINST BASEMENT WALLS (WALLS SUPPORTED AT TOP & BOTTOM) UNTIL THE FLOOR SLABS AT THE TOP AND BOTTOM OF WALL ARE IN PLACE AND CURED.
7. BACKFILL AGAINST RETAINING WALLS SHALL NOT BE PLACED UNTIL CONCRETE HAS CURED FOR 7 DAYS. BACKFILL SHALL BE DEPOSITED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER FINAL GRADE IS REACHED.
8. COMPACTION OF BACKFILL WITHIN 10 FEET OF WALLS SHOULD BE PERFORMED WITH HAND OPERATED EQUIPMENT.
9. FOUNDATIONS POURED AGAINST EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY THE GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.
10. ALL DRAIN TILE SHALL BE 4" DIA. (MIN) PERFORATED PLASTIC PIPE WITH FABRIC SOCK AND 12" MINIMUM WASHED RIVER ROCK SURROUND. DO NOT USE CRUSHED OR FINE GRAVEL.
11. WHERE A UTILITY LINE PASSES UNDER A FOOTING, PROVIDE A STEEL OR PRECAST SLEEVE WITH MINIMUM 2" CLEAR ON ALL SIDES OF PIPE.

CONCRETE NOTES:

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH (f'c) AT 28 DAYS:
   - ALL CONCRETE: 3000 PSI

   * BUILDING CONCRETE REFERS TO ALL DESIGNED CONCRETE ELEMENTS INDICATED IN THESE STRUCTURAL DOCUMENTS. ALL SITE PAVINGS ARE TO BE DESIGNED AND SPECIFIED BY THE CIVIL ENGINEER,SITE ENGINEER, OR GEOTECHNICAL ENGINEER.
2. CONCRETE PROPORTIONS SHALL CONSIST OF THE FOLLOWING MATERIALS TO ACHIEVE A MIX THAT WILL YIELD A FINISHED PRODUCT THAT WILL PRODUCE THE REQUIRED COMPRESSIVE STRENGTHS LISTED IN NOTE #1 ABOVE.
   A. CEMENTITIOUS MATERIALS:
      a. PORTLAND CEMENT, ASTM C150, TYPE 1.
      b. FLYASH, ASTM C618, CLASS "C" OR "F," NOT TO EXCEED 25% OF CEMENT CONTENT BY WEIGHT
      c. SLAG CEMENT IS NOT ALLOWED.
   B. AGGREGATES: NORMAL WEIGHT, ASTM C33; LIGHT WEIGHT, ASTM C330. PROVIDE ALL AGGREGATE FROM A SINGLE SOURCE.
   C. WATER: ASTM C94, POTABLE
   D. AIR ENTRAINMENT ADMIXTURE: ASTM C260
   E. WATER REDUCING ADMIXTURE: ASTM C494, TYPES D, E, F, OR G
   F. CALCIUM CHLORIDE: ANY ADMIXTURE CONTAINING MORE THAN 0.1% CHLORIDE IONS, CONTENT BY WEIGHT, ARE NOT PERMITTED.
   G. MIX AND DELIVERY TIME FOR PLACEMENT (ASTM C94): 90 MINUTES (MAX)
   H. SLUMP:
      - 4" (+/- 1") WITHOUT WATER REDUCER
      - 6.5" (+/-1.5") WITH WATER REDUCER
   I. AIR CONTENT FOR EXTERIOR CONCRETE: 5.5% (+/- 1.5%)
   J. CONCRETE TEMPERATURE RANGE: 50 - 90 DEGREES AS FIELD CONDITIONS REQUIRE: ADHERE TO ACI-306 FOR COLD-WEATHER PLACEMENT ADHERE TO ACI-301 FOR HOT-WEATHER PLACEMENT.
3. CONCRETE MIX DESIGNS MUST BE SUBMITTED TO THE E.O.R. FOR HIS APPROVAL BEFORE CONSTRUCTION BEGINS. MIX DESIGNS MUST BE SUBMITTED WITH COMPRESSIVE STRENGTH INFORMATION, FOR THAT SPECIFIC MIX, AS PER THE REQUIREMENTS OF CHAPTER 5 OF ACI-318. SUBMISSIONS WITHOUT THIS INFORMATION WILL BE STAMPED "REJECTED" & RETURNED TO THE CONTRACTOR WITHOUT E.O.R. REVIEW. TEST DATA SHALL BE NO OLDER THAN 12 MONTHS. ALL CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE AVAILABLE ON THE JOB SITE FOR REVIEW BY THE INSPECTOR.
4. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318 (LATEST EDITION).
5. SLAB ON GRADE CONTROL OR CONSTRUCTION JOINTS SHALL BE LOCATED AT COLUMN LINES AND INTERMEDIATELY SO THAT NO JOINT SPACING SHALL EXCEED 20'-0", NOR SHALL THE LENGTH OF ANY PANEL EXCEED ONE AND A HALF, (1 1/2), TIMES THE WIDTH OF THAT PANEL. PROVIDE A JOINT AT ALL RE-ENTRANT SLAB CORNERS. REFER TO SECTION DETAILS FOR TYPICAL SLAB JOINT CONSTRUCTION.
6. FLOOR SLAB CONSTRUCTION JOINTS MAY BE DOWELED OR FORMED WITH METAL KEYWAYS.
7. EXTERIOR SLABS SHALL DRAIN FREELY AWAY FROM THE BUILDING. COORDINATE ELEVATIONS WITH CIVIL ENGINEER AND ARCHITECT.
8. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB FINISHES, SLOPES AND DEPRESSIONS OF INTERIOR SLABS.

REINFORCING STEEL NOTES:

1. SHALL BE DETAILED, FABRICATED AND PLACED ACCORDING TO THE LATEST STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
2. MATERIALS:
   - REINFORCING BARS SHALL COMPLY WITH ASTM A615 GRADE 60.
   - WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A82 AND A185.
   - REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A706.
3. CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:
   - CONCRETE PLACED AGAINST EARTH 3"
   - FORMED SURFACES EXPOSED TO EARTH 2"
   - TOP OF SLABS 3/4"
4. ALL BARS DENOTED CONTINUOUS ON PLANS, SECTIONS AND DETAILS SHALL HAVE CLASS "B" TENSION SPLICE LAPS AND CORNER BARS AND HOOKS AT DISCONTINUOUS ENDS. SPLICED BARS SHALL BE SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED 24" WHEREVER POSSIBLE.
5. WELDED WIRE FABRIC, WHERE REQUIRED, SHALL BE PLACED IN THE CENTER OF THE SLAB UNLESS NOTED OTHERWISE. LAP JOINTS ONE WIRE SPACING PLUS 2" OR A MINIMUM OF 6". EXTEND FABRIC TO WITHIN 1" OF EDGES OF SLABS ON GRADE.
6. PROVIDE PRECAST DOBIES, WIRE OR PLASTIC CHAIRS, SUPPORT BARS, ETC. TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS AND WELDED WIRE FABRIC. DO NOT USE REBAR STAKES TO SUPPORT REINFORCING. ALL REINFORCEMENT SHALL BE FASTENED AND SECURED TO PREVENT DISPLACEMENT BY THE PLACING OF CONCRETE.
7. REBAR FOR WELDED CONNECTIONS MUST MEET ASTM A706. STANDARD ASTM A615 GRADE 60 REBARS ARE NOT ACCEPTABLE FOR WELDING. WELDING PROCEDURE SHALL CONFORM TO ANSI/AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL". DO NOT TACK WELD.
8. REINFORCING DOWELS, WHERE REQUIRED, SHALL MATCH THE SIZE, SPACING AND QUANTITY OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL MATERIALS:
   - STRUCTURAL STEEL: ASTM A992, Fy = 50 KSI
   - OTHER SHAPES AND PLATES: ASTM A36, Fy = 36 KSI
   - STRUCTURAL TUBING: ASTM A500, GRADE C, Fy = 50 KSI
   - STRUCTURAL PIPE: ASTM A53, GRADE B, Fy = 35 KSI
   - CONNECTION BOLTS: ASTM A325, UNLESS NOTED OTHERWISE
   - ANCHOR BOLTS: ASTM F1554, A307 OR A36, Fy = 36 KSI. PROVIDE 3 NUTS AND 2 WASHERS WITH EACH ANCHOR BOLT.
   - WELDING ELECTRODES: E70-XX, UNLESS NOTED OTHERWISE
2. STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AISC.
3. BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER BOLTS AND WASHERS CONFORMING TO ASTM A325 UNLESS OTHERWISE NOTED. THEY SHALL BE ASSEMBLED, INSTALLED AND INSPECTED IN ACCORDANCE WITH "RCSC-2009. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS". BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL HOLES TO BE DRILLED OR PUNCHED; FLAME CUTTING OR TORCHING OF HOLES IS NOT ALLOWED AT ANY TIME.
   - BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - BOLTED MOMENT CONNECTIONS, BRACES AND HANGERS SHALL HAVE PRE-TENSIONED BOLTS AS ALLOWED BY RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
   - ALL DIAMETERS OF PRE-TENSIONED BOLTS SHALL HAVE DIRECT TENSION INDICATOR WASHERS, "DTI," TO ALLOW FOR PROPER VERIFICATION OF THE REQUIRED BOLT TENSIONING. USE OF ANY OTHER VERIFICATION METHOD OF BOLT TENSIONING IS TO BE PRESENTED TO THE E.O.R. DURING THE STEEL SHOP DRAWING PROCESS FOR HIS APPROVAL OR DISAPPROVAL.
4. SHOP OR FIELD SPLICES BETWEEN SUPPORTS THAT ARE NOT REQUIRED BY DESIGN WILL NOT BE ALLOWED. ANY MEMBERS CONTAINING SUCH SPLICES SHALL BE REMOVED AND REPLACED WITH UNSPLICED MEMBERS AT THE FABRICATOR'S EXPENSE.
5. PROVIDE BOLTS AND PUNCHED HOLES IN STRUCTURAL AND MISCELLANEOUS STEEL FOR ATTACHMENTS OF WOOD NAILERS AS REQUIRED ON THE ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS.
6. MINIMUM SIZE OF WELD IS 3/16" UNLESS NOTED OTHERWISE. ALL WELDING SHALL CONFORM TO THE CURRENT PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. ALL WORK SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN THE TYPE OF CONSTRUCTION INVOLVED. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE.
7. SHOP DRAWINGS SHALL SHOW COMPLETE WELDING INFORMATION, BOTH SHOP AND FIELD, USING AMERICAN WELDING SOCIETY SYMBOLS UNLESS OTHERWISE INDICATED.
8. PROVIDE 1-1/2" NON-METALLIC, SHRINKAGE RESISTANT GROUT CONFORMING TO ASTM C1107 UNDER ALL COLUMN BASEPLATES.
9. ALL STEEL SHALL HAVE A PRIME COAT OF PAINT EXCEPT AREAS TO BE FIELD WELDED AND STEEL SCHEDULED TO RECEIVE FIREPROOFING.
10. ALL PORTIONS OF STEEL ENCASED IN CONCRETE, GROUT, OR IN CONTACT WITH EARTH SHALL BE PAINTED WITH BITUMINOUS PAINT.
11. PRIME AND PAINT ALL FIELD WELDS AFTER INSPECTION.
12. STEEL FABRICATOR TO BE AN AISC CERTIFIED FABRICATOR.
13. ALL PLAN DIMENSIONS ARE TO CENTERLINE OF STEEL MEMBERS EXCEPT FOR STEEL CHANNELS. CHANNEL DIMENSIONS ARE TO THE BACK FACE OF THE WEB.
14. REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STEEL BRACKETS, BRACES, SUPPORTS, ETC. NOT INDICATED ON THE STRUCTURAL DRAWINGS.

SHOP DRAWING NOTES:

1. CONTRACTOR SHALL ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO PREPARE AND FURNISH SIGNED & SEALED DESIGN CALCULATIONS AND SHOP DRAWINGS FOR THE FOLLOWING STRUCTURAL MATERIALS:
   - ANCHOR BOLT LAYOUT
   - STRUCTURAL STEEL
   - REINFORCING STEEL
   - CONCRETE MIX DESIGN
2. UNLESS NOTED, SUBMIT SHOP DRAWINGS FOR ALL FABRICATED MATERIALS. ALL SHOP DRAWINGS MUST BEAR THE REVIEW STAMP OF THE GENERAL CONTRACTOR. UNSTAMPED SHOP DRAWINGS WILL BE REJECTED WITHOUT REVIEW.
3. ALLOW A MINIMUM OF 10 WORKING DAYS FOR ARCHITECT/ENGINEER REVIEW OF EACH SHOP DRAWING SUBMITTAL.
4. SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN ENGINEER OF RECORD AND NOT SPECIFIED IN THE CONSTRUCTION DOCUMENTS SHALL BE SIGNED & SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. COMPONENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: LADDERS, RACK SYSTEMS, GLAZING SYSTEMS, AWNINGS AND ANY OTHER ITEM THAT IS DESIGNATED AS "DESIGNED BY OTHERS" OR "PRE ENGINEERED". THESE SHOP DRAWINGS SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED BY THE PROJECT ARCHITECT OR ENGINEER OF RECORD.
5. SHOP DRAWINGS SUBMITTED TO THE ENGINEER OF RECORD SHALL ADHERE TO THE FOLLOWING GUIDELINES OR THEY WILL BE REJECTED AND RETURNED TO SENDER UNCHECKED.
   - THE LATEST ISSUE DATE, IN THE DRAWING REVISION BOX, OF ANY SHEET IN THE STRUCTURAL DRAWING SET, SHALL BE CLEARLY SHOWN ON THE TOP SHEET OF THE SHOP DRAWINGS.
   - NO PARTIAL SETS WILL BE ACCEPTED, UNLESS PREVIOUSLY APPROVED BY THE ENGINEER OF RECORD.
6. DETAILER SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS OR DUCTWORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
7. DIMENSIONAL COORDINATION SHALL BE PERFORMED BY THE GENERAL CONTRACTOR AND/OR THEIR FABRICATOR.
8. PROPOSED CHANGES TO THE CONSTRUCTION DOCUMENTS SHALL BE CLEARLY MARKED IN THE SHOP DRAWINGS AND SHALL INCLUDE SIGNED & SEALED DRAWINGS AND CALCULATIONS BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER OF RECORD WILL REVIEW THE PROPOSED CHANGE FOR ACCEPTANCE.
9. THE CONTRACTOR SHALL HAVE PROOF OF WELDER CERTIFICATION AT THE JOBSITE AT ALL TIMES.
10. APPROVED SHOP DRAWINGS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.

CONCRETE REINFORCING LAP LENGTH (3000 PSI)

REINFORCING SIZE	TENSION LAP SPLICE CLASS "A"	TENSION LAP SPLICE CLASS "B"	COMPRESSION SPLICE
#3	17"	22"	9"
#4	22"	29"	11"
#5	28"	39"	14"
#6	33"	43"	17"
#7	48"	63"	20"
#8	55"	72"	22"
#9	62"	81"	25"
#10	70"	91"	28"
#11	78"	101"	31"

ABBREVIATIONS

A.B.	ANCHOR BOLT	MAS.	MASONRY
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MFR.	MANUFACTURER
		MIN.	MINIMUM
B/	BOTTOM OF	MISC.	MISCELLANEOUS
BM.	BEAM	M.O.	MASONRY OPENING
BOTT	BOTTOM	MTL.	METAL
BLKG.	BLOCKING		
BLDG.	BUILDING	N.A.	NOT APPLICABLE
		N/A	NOT APPLICABLE
CJ	CONTROL/CONSTRUCTION JOINT	N.I.C.	NOT IN CONTRACT
C.L.	CENTER LINE	N.T.S.	NOT TO SCALE
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL	COLUMN	O.D.	OUTSIDE DIAMETER
CONC	CONCRETE	O.H.	OPPOSITE HAND
CONT	CONTINUOUS	OPNG	OPENING
CONST	CONSTRUCTION	OPP.	OPPOSITE
CONTR.	CONTRACTOR		
COORD	COORDINATE	P.A.F.	POWDER ACTUATED FASTENER
CTR.	CENTER	PJF	PREMOLDED JOINT FILLER
		PL	PLATE
DET.	DETAIL	PLYWD.	PLYWOOD
DIA	DIAMETER	PREFAB.	PREFABRICATED
DN	DOWN	P.T.	PRESSURE TREATED
DIM.	DIMENSION	PTD.	PAINTED
DWG.	DRAWING		
		RAD.	RADIUS
EA.	EACH	REINF	REINFORCING
E.J.	EXPANSION JOINT	REQ'D	REQUIRED
EL	ELEVATION		
ELEV	ELEVATION	SECT.	SECTION
E.O.R.	ENGINEER OF RECORD	SHT.	SHEET
E.W.	EACH WAY	SIM.	SIMILAR
EXIST.	EXISTING	SPCS	SPACES
		SQ.	SQUARE
F.F.	FINISH FLOOR	STD.	STANDARD
FIN. FLR.	FINISH FLOOR	STL	STEEL
FT.	FOOT	STRUC.	STRUCTURAL
FTG	FOOTING	S.W.	SHORT WAY
F.V.	FIELD VERIFY		
		T/	TOP OF
GA.	GAUGE	THK.	THICK
GALV.	GALVANIZED	T.O.S.	TOP OF STEEL
G.C.	GENERAL CONTRACTOR	TYP	TYPICAL
GDR	GIRDER		
		U.N.O.	UNLESS NOTED OTHERWISE
HT.	HEIGHT		
HORIZ	HORIZONTAL	VERT.	VERTICAL
		WD	WOOD
JST	JOIST	WF	WIDE FLANGE
JT	JOINT	WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH
KB	KNEE BRACE	W/	WITH
		W/O	WITHOUT
LG	LONG	WP	WORK POINT
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LW	LONG WAY		

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GENERAL NOTES

REVISIONS	
NO.	DATE

PROJECT NO: 25.2003

SHEET S0.01

DATE: ---

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

SPECIAL INSPECTIONS AND TESTS:

THIS PROJECT REQUIRES SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. THESE NOTES AND THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THE PROJECT OWNER ARE INTENDED TO INFORM THE CONTRACTOR OF THE QUALITY ASSURANCE PROGRAM AND THE EXTENT OF THE CONTRACTOR'S RESPONSIBILITIES.

THE SPECIAL INSPECTION AND TESTS PROGRAM:

1. THE SPECIAL INSPECTION AND TESTING PROGRAM IS A QUALITY ASSURANCE PROGRAM INTENDED TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SECTION IN CHAPTER 1 OF THE IBC. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO COMPLY WITH THE OFFICIAL CONTRACT DOCUMENTS. FURTHER, IT IS NOT INTENDED THAT THE CONTRACTOR'S CONTRACTUAL AND STATUTORY OBLIGATIONS ARE ANYWAY RELIEVED OR FOREGONE BY THE PRESENCE OF THE SPECIAL INSPECTOR. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR DOES NOT REPLACE THE DUTIES OF THE BUILDING OFFICIAL NOR THE QUALITY CONTROL RESPONSIBILITIES AND PERSONNEL OF THE CONTRACTOR. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

2. THE PROJECT OWNER IS RESPONSIBLE FOR EMPLOYING SPECIAL INSPECTION SERVICES. THE SPECIAL INSPECTOR/AGENCY SHALL NOT BE IN THE EMPLOY OF THE CONTRACTOR, SUBCONTRACTOR OR MATERIAL SUPPLIER, IBC CHAPTER 17. IN THE CASE OF AN OWNER/CONTRACTOR, THE SPECIAL INSPECTOR/AGENCY SHALL BE EMPLOYED AS SPECIFIED BY THE BUILDING OFFICIAL.

3. THE SPECIAL INSPECTOR IS OBLIGATED TO BOTH THE OWNER AND THE BUILDING OFFICIAL FOR OBSERVING THAT THE WORK IS EXECUTED IN SUBSTANTIVE ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS. THE OFFICIAL CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED PLANS AND SPECIFICATIONS, ADDENDA, CHANGE ORDERS, ISSUED SKETCHES AND REVISION DRAWINGS, AND ALL DIRECTIVES ISSUED BY ARCHITECT/ENGINEER.

4. THE INSPECTION AND TESTING AGENTS SHALL DISCLOSE ANY PAST OR PRESENT BUSINESS RELATIONSHIP OR POTENTIAL CONFLICT OF INTEREST WITH THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS WHOSE WORK IS TO BE INSPECTED OR TESTED. THE SPECIAL INSPECTORS MAY HAVE NO FINANCIAL INTEREST IN PROJECTS FOR WHICH THEY PROVIDE SPECIAL INSPECTION SERVICES.

SPECAIL INSPECTION REPORT REQUIREMENTS:

1. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.

2. REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH THE INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT THE WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY OF THE DISCREPANCIES NOTED IN THE INSPECTIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.

THE CONSTRACTOR SHALL BE RESPONSIBLE FOR COSTS OF:

1. RETESTING AND REINSPECTION OF MATERIALS, WORK AND/OR PRODUCTS THAT DO NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS/SUBMITTAL DATA.

2. REVIEW OF PROPOSED REPAIR AND/OR REPLACEMENT PROCEDURES BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE INSPECTORS AND TESTING AGENCIES.

3. REPAIR OR REPLACEMENT OF WORK THAT DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE TRAVEL COSTS OF THE SPECIAL INSPECTOR OR AGENTS WHEN SHOP INSPECTION IS REQUIRED OF A NON APPROVED STRUCTURAL COMPONENT FABRICATOR.

CONTRACTOR RESPOSIBILITIES:

1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR IN ADVANCE OF CONSTRUCTION SCHEDULES AND PLANNED OPERATIONS IN ORDER TO ASSURE TIMELY AND APPROPRIATE INSPECTION FOR THE ITEMS LISTED IN THE SCHEDULE OF SPECIAL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTICE TO THE SPECIAL INSPECTOR FOR ALL INSPECTIONS.

2. THE CONTRACTOR SHALL COOPERATE WITH AND ASSIST THE SPECIAL INSPECTOR IN PERFORMING HIS INSPECTION DUTIES. THE SPECIAL INSPECTOR SHALL HAVE FREE ACCESS TO THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL REVIEW THE SPECIAL INSPECTION PLAN AND COORDINATE THE SCHEDULE OF WORK TO ACCOMMODATE THE REQUIRED INSPECTIONS.

3. PROVIDE ACCESS TO APPROVED PLANS: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR ACCESS TO APPROVED PLANS. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF THE CONTRACT DOCUMENTS AT THE JOB SITE.

4. CORRECT DISCREPANCIES AND DEVIATIONS: THE CONTRACTOR SHALL, UPON BEING INFORMED BY THE SPECIAL INSPECTOR, IMMEDIATELY CAUSE TO ELIMINATE SUCH DISCREPANCIES AND DEVIATIONS.

5. WORK COMPLETED WITHOUT INSPECTION: WORK REQUIRING INSPECTION WHICH IS COMPLETED WITHOUT INSPECTION WILL BE REJECTED SOLELY ON THAT BASIS.

6. RETAIN SPECIAL INSPECTION RECORDS: THE CONTRACTOR IS ALSO RESPONSIBLE FOR RETAINING AT THE JOB SITE ALL SPECIAL INSPECTION RECORDS COMPLETED BY THE SPECIAL INSPECTOR.

INSPECTION OF FABRICATORS:

1. WHERE FABRICATION OF STRUCTURAL MEMBERS AND ASSEMBLIES ARE PERFORMED ON THE PREMISES OF THE FABRICATOR, THE SHOP FABRICATION REQUIRES SPECIAL INSPECTION DURING THE FABRICATION OF ITEMS FOR THIS PROJECT.
   - EXEMPTION:
     - FABRICATORS APPROVED BY THE BUILDING OFFICIAL ARE EXEMPT FROM THE ON PREMISE INSPECTION. THE APPROVAL BY THE BUILDING OFFICIAL OF ANY FABRICATOR SHOULD BE PROPERLY DOCUMENTED PRIOR TO THE COMMENCEMENT OF FABRICATION. EXEMPTION WILL BE PROVIDED TO FABRICATORS WHO PROVIDE PROOF OF CERTIFICATION BY A NATIONALLY RECOGNIZED GOVERNING ASSOCIATION WHICH PERFORMS PERIODIC INSPECTIONS AND MAINTAINS QUALITY ASSURANCE CRITERIA. EXAMPLES ARE: AISC CERTIFICATION FOR A STEEL FABRICATOR, SJI CERTIFICATION FOR A STEEL JOIST MANUFACTURER, WTC AND TPI CERTIFICATION FOR A PRE-ENGINEERED WOOD TRUSS MANUFACTURER.

2. AT THE COMPLETION OF FABRICATION, THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

OTHER REQUIRED INSPECTIONS:

1. THE REQUIREMENTS OF SPECIAL INSPECTIONS AND TESTING IN ACCORDANCE OF THE INTERNATIONAL BUILDING CODE ARE MINIMUM REQUIREMENTS AND DO NOT LIMIT THE REQUIREMENTS FOR THE CONTRACTOR TO PROVIDE OTHER QUALITY CONTROL INSPECTIONS AND TESTING REQUIRED BY THE OWNER, CONTRACT DOCUMENTS, OR GOVERNING AUTHORITIES HAVING JURISDICTION.

SCHEDULE OF SPECIAL INSPECTIONS

1705.2.1 STRUCTURAL STEEL CONSTRUCTION

MATERIAL / ACTIVITY	SERVICE	Y	N	EXTENT
1. FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, CHAPTER N, PARAGRAPH 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	SUBMITTAL REVIEW	●		EACH SUBMITTAL
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
3. STRUCTURAL STEEL WELDING:				
a. INSPECTION TASKS PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	SHOP (3) AND FIELD INSPECTION	●		OBSERVE OR PERFORM AS NOTED (4)
b. INSPECTION TASKS DURING WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	SHOP (3) AND FIELD INSPECTION		●	OBSERVE (4)
c. INSPECTION TASKS AFTER WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-3)	SHOP (3) AND FIELD INSPECTION	●		OBSERVE OR PERFORM AS NOTED (4)
d. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS: SEE COMMENTARY				
1. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	SHOP (3) OR FIELD ULTRASONIC TESTING - 100%		●	PERIODIC
2. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	SHOP (3) OR FIELD ULTRASONIC TESTING - 100%	●		PERIODIC
3. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1	SHOP (3) OR FIELD ULTRASONIC TESTING - 100%	●		PERIODIC
4. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS ND	VERIFY REPORTS	●		EACH SUBMITTAL
4. STRUCTURAL STEEL BOLTING:				
a. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)	SHOP (3) AND FIELD INSPECTION	●		OBSERVE OR PERFORM AS NOTED (4)
b. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)				
1. PRE-TENSIONED AND SLIP-CRITICAL JOINTS				
a. TURN-OF-NUT WITH MATCHING MARKINGS	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
b. DIRECT TENSION INDICATOR	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
c. TWIST-OFF TYPE TENSION CONTROL BOLT	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
d. TURN-OF-NUT WITHOUT MATCHING MARKINGS	SHOP (3) AND FIELD INSPECTION	●		CONTINUOUS
e. CALIBRATED WRENCH	SHOP (3) AND FIELD INSPECTION	●		CONTINUOUS
2. SNUG-TIGHT JOINTS	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
c. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)	SHOP (3) AND FIELD INSPECTION	●		PERFORM (4)
5. VISUAL INSPECTION OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
6. EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	●		PERIODIC
7. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	●		PERIODIC

1705.3 CONCRETE CONSTRUCTION

MATERIAL / ACTIVITY	SERVICE	Y	N	EXTENT
1. INSPECTION AND PLACEMENT VERIFICATION OF REINFORCING STEEL AND PRESTRESSING TENDONS.	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
2. REINFORCING BAR WELDING:				
a. VERIFICATION OF WELDABILITY OF BARS OTHER THAN ASTM A706.		●		PERIODIC
b. INSPECTION OF SINGLE-PASS FILLET WELDS 5/16 OR LESS IN SIZE.		●		PERIODIC
c. INSPECTION OF ALL OTHER WELDS.		●		CONTINUOUS
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS PER RESEARCH REPORTS, OR, IF NO SPECIFIC REQUIREMENTS ARE PROVIDED, REQUIREMENTS SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL AND APPROVED BY THE BUILDING OFFICIAL, INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE	FIELD INSPECTION	●		PERIODIC OR AS REQUIRED BY THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARD-INCLINED ORIENTATION THAT RESIST SUSTAINED TENSION LOADS.			●	CONTINUOUS
b. MECHANICAL AND ADHESIVE ANCHORS NOTE DEFINED IN 4A.		●		PERIODIC
5. VERIFY USE OF APPROVED DESIGN MIX	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
6. PRIOR TO PLACEMENT, FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE AND PERFORM ANY OTHER TESTS AS SPECIFIED IN CONSTRUCTION DOCUMENTS.	SHOP (3) AND FIELD INSPECTION	●		CONTINUOUS
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP (3) AND FIELD INSPECTION	●		CONTINUOUS
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP (3) AND FIELD INSPECTION	●		PERIODIC
9. INSPECTION OF PRESTRESSED CONCRETE:				
a. APPLICATION OF PRESTRESSING FORCE	SHOP (3) AND FIELD INSPECTION		●	CONTINUOUS
b. GROUTING OF BONDED PRESTRESSING TENDONS	SHOP (3) AND FIELD INSPECTION		●	CONTINUOUS
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	SHOP (3) AND FIELD INSPECTION		●	PERIODIC
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	REVIEW FIELD TESTING AND LABORATORY REPORTS		●	PERIODIC
12. INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS	FIELD INSPECTION	●		PERIODIC
13. CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	●		PERIODIC

1705.6 SOILS

MATERIAL / ACTIVITY	SERVICE	Y	N	EXTENT
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	●		PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	●		PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	FIELD INSPECTION	●		PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	FIELD INSPECTION	●		CONTINUOUS
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	●		PERIODIC

*INSPECTION AGENTS FIRM	ADDRESS	TELEPHONE NO.
1.		
2.		
3.		
4.		

NOTES:
1. THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.
2. THE LIST OF SPECIAL INSPECTORS MAY BE SUBMITTED AS A SEPARATE DOCUMENT, IF NOTED SO ABOVE.
3. SHOP INSPECTIONS OF FABRICATED ITEMS ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5.1 AND LISTED IN ACTIVITY 1709.2.
4. OBSERVE: OBSERVE ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT.
5. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. REFER TO AISC 360, N6.

ARE SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS? NO

ARE SPECIAL INSPECTIONS FOR WIND RESISTANCE INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS? NO

DATE: 10.01.2025

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STATE OF MISSOURI
Marc D Rossiter
NUMBER PE-2018039252
PROFESSIONAL ENGINEER
10/01/2025

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SPECIAL INSPECTION NOTES

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FOUNDATION NOTES:

1. PROVIDE PIPE SLEEVE FOR PIPES PASSING UNDER FOOTINGS.
2. TOP OF FOOTING AND/OR BOTTOM OF TURNDOWN SHALL BE A MINIMUM OF 1'-4" BELOW ADJACENT GRADES.

CONCRETE SLAB NOTES:

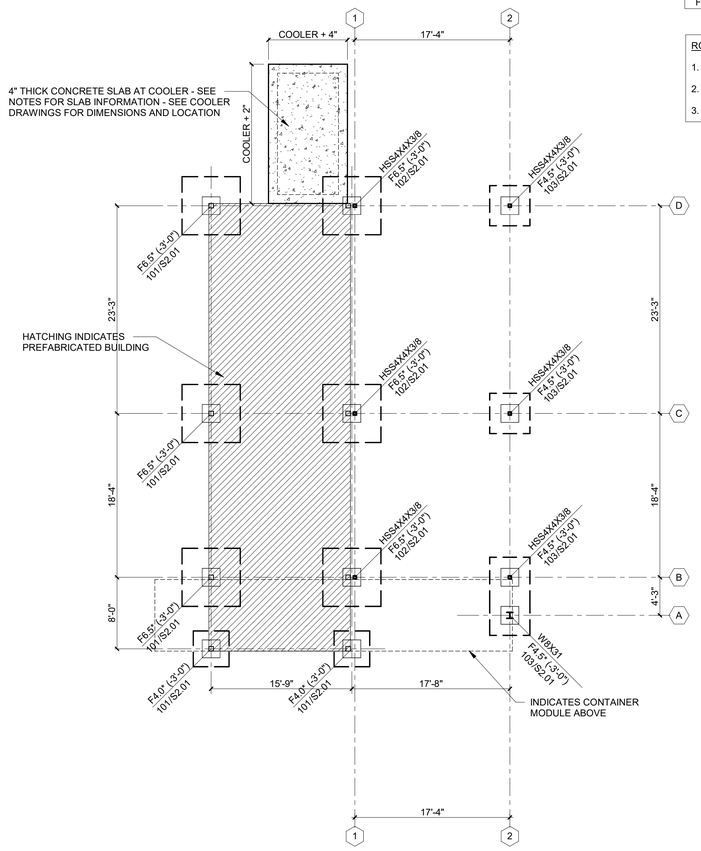
1. FLOOR SLAB SHALL BE 4" THICK CONCRETE REINFORCED WITH 6 x 6 W1.4 x W1.4 W.W.F. "CHAIRED" AT CENTER OF SLAB.
2. SIDEWALK SLAB SHALL BE 4" THICK CONCRETE REINFORCED WITH 6 x 6 W1.4 x W1.4 W.W.F. "CHAIRED" AT CENTER OF SLAB.
3. PROVIDE 4" THICK, GRANULAR BASE UNDER SLABS.
4. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR ANY SIDEWALK, PLANTER AND PAVER LOCATIONS AND DETAILS.
5. PROVIDE CONCRETE SLAB CONTROL JOINTS AS PER CONCRETE NOTES IN GENERAL NOTES.
6. CONDUITS AND PIPES EMBEDDED IN SLABS:
   - SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD THE OVERALL THICKNESS OF THE SLAB.
   - THEY SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
   - A MINIMUM SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED ITEMS.

FOOTING SCHEDULE

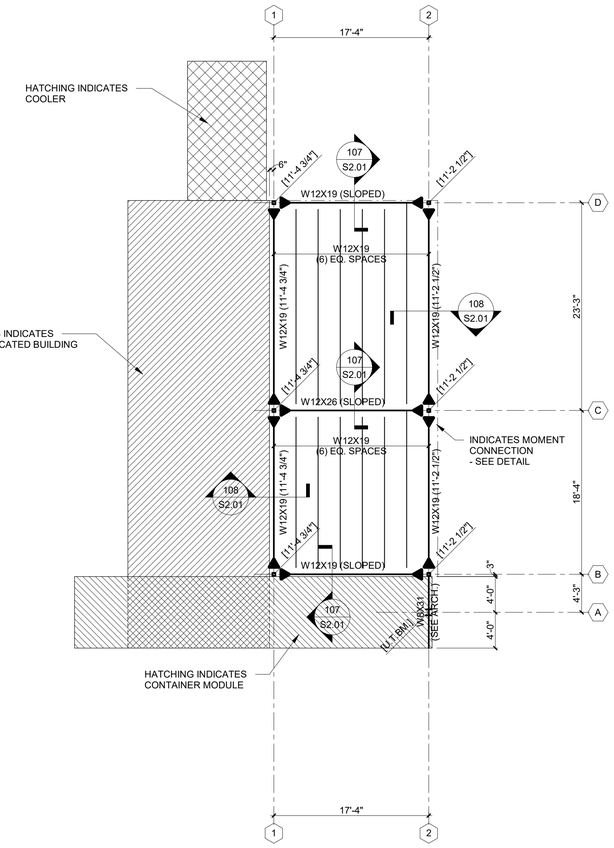
MARK	THICKNESS	LENGTH	WIDTH	REINFORCEMENT
F4.0*	2' - 0"	4' - 0"	4' - 0"	(5) #4 E.W.T.B.
F4.5*	2' - 0"	4' - 6"	4' - 6"	(4) #5 E.W.T.B.
F6.5*	2' - 0"	6' - 6"	6' - 6"	(6) #6 E.W.T.B.

ROOF FRAMING NOTES:

1. (X'-X") INDICATES TOP OF BEAM ELEVATION.
2. [X'-X"] INDICATES TOP OF COLUMN ELEVATION.
3. SEE ARCHITECTURAL DRAWINGS FOR ROOFING MATERIALS.



1 S1.01 CANOPY FOUNDATION PLAN AT BUILDING
1/8" = 1'-0"



3 S1.01 CANOPY ROOF FRAMING PLAN AT BUILDING
1/8" = 1'-0"

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FOUNDATION AND FRAMING PLANS

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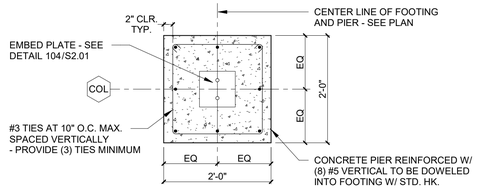
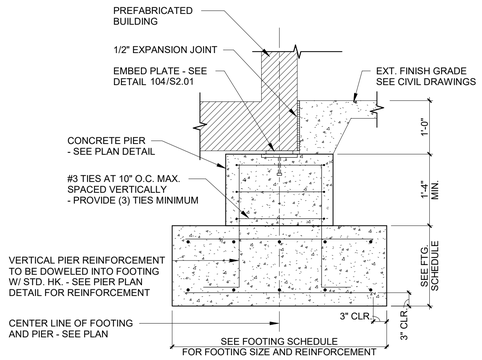
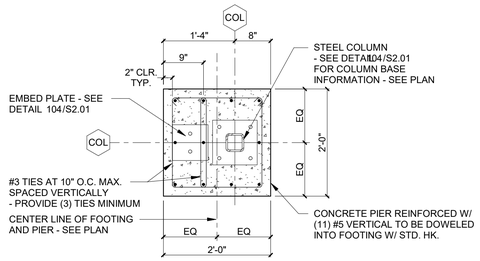


PIER PLAN DETAIL



COLUMN PIER AND FOOTING DETAIL 101



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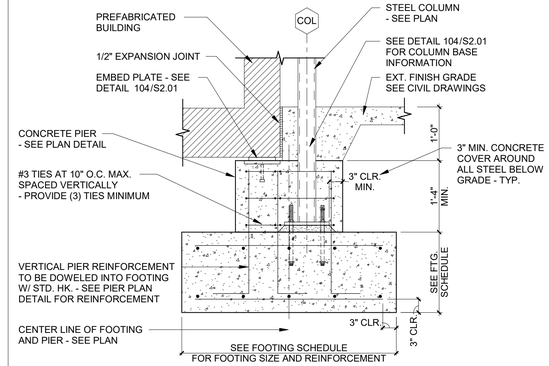

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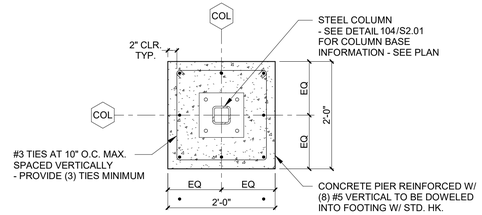

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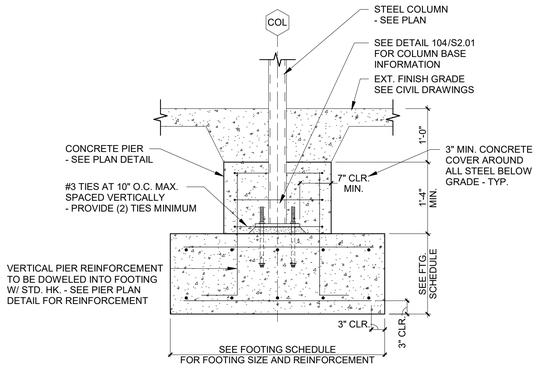
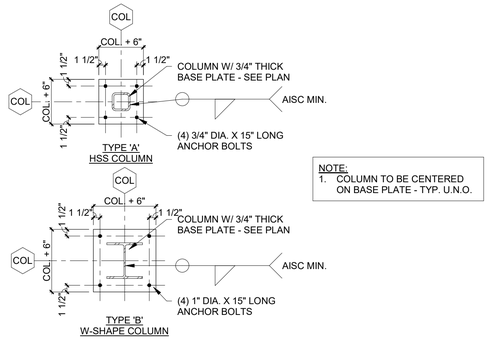
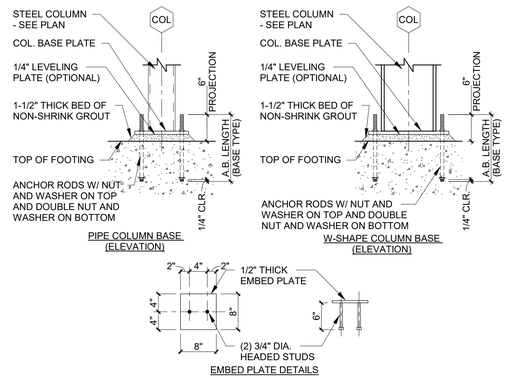


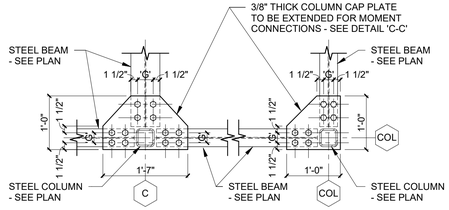
COLUMN PIER AND FOOTING DETAIL 103



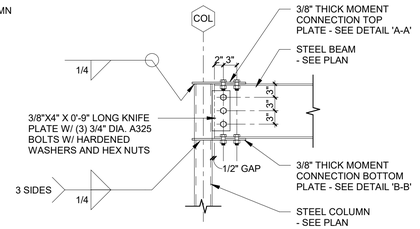
NOTE:
1. COLUMN TO BE CENTERED ON BASE PLATE - TYP. U.N.O.



COLUMN BASE AND EMBED PLATE DETAILS 104

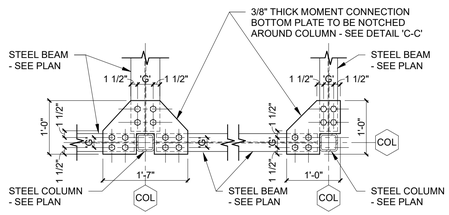


PLAN DETAIL A-A:
MOMENT CONNECTION
TOP PLATE



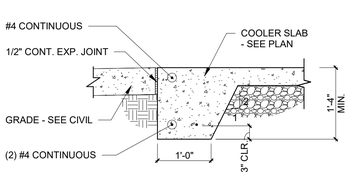
SECTION DETAIL C-C:
MOMENT CONNECTION

NOTE:
ALL BOLTED MOMENT CONNECTIONS ARE TO HAVE PRE-TENSIONED BOLTS AND DTI WASHERS. SEE GENERAL NOTES.

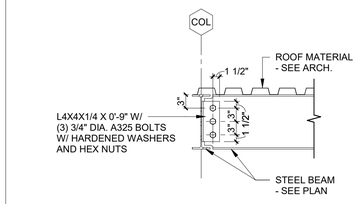


PLAN DETAIL B-B:
MOMENT CONNECTION
BOTTOM PLATE

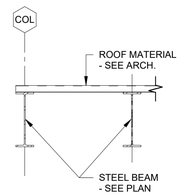
MOMENT CONNECTION DETAIL 105



EXTERIOR SLAB TURNDOWN 106



SECTION AT ROOF 107



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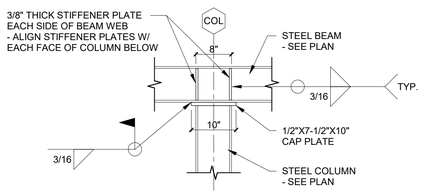
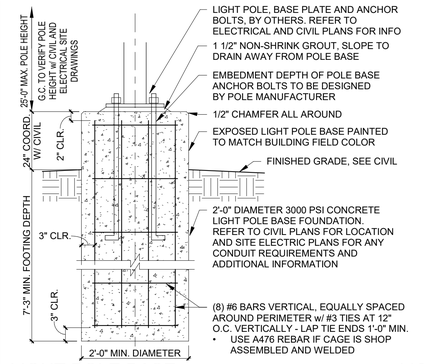


MOMENT CONNECTION DETAIL 109



LIGHT POLE BASE 110

smalls SLIDERS

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SECTIONS AND DETAILS

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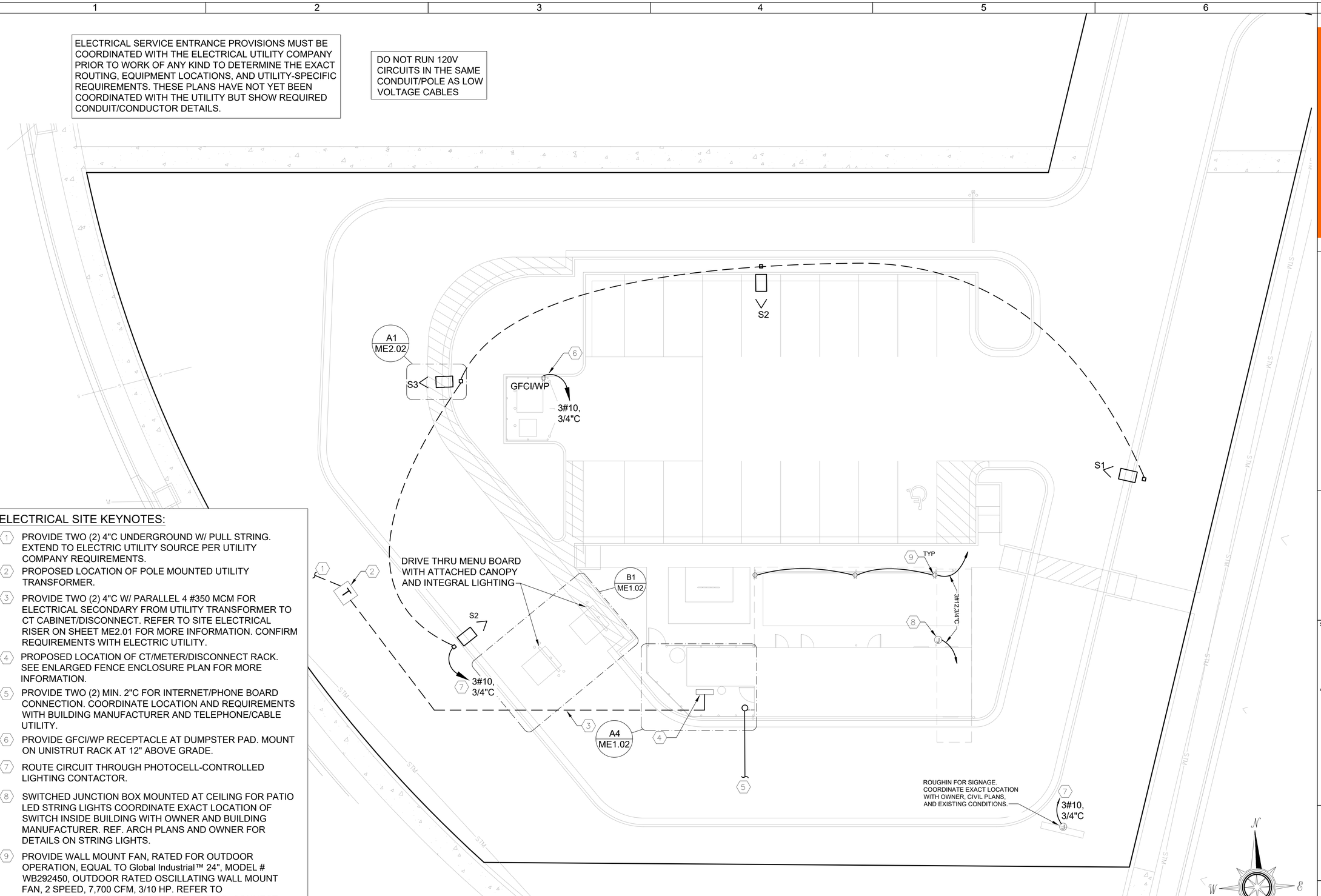
ELECTRICAL SERVICE ENTRANCE PROVISIONS MUST BE COORDINATED WITH THE ELECTRICAL UTILITY COMPANY PRIOR TO WORK OF ANY KIND TO DETERMINE THE EXACT ROUTING, EQUIPMENT LOCATIONS, AND UTILITY-SPECIFIC REQUIREMENTS. THESE PLANS HAVE NOT YET BEEN COORDINATED WITH THE UTILITY BUT SHOW REQUIRED CONDUIT/CONDUCTOR DETAILS.

DO NOT RUN 120V CIRCUITS IN THE SAME CONDUIT/POLE AS LOW VOLTAGE CABLES



ELECTRICAL SITE KEYNOTES:

1. PROVIDE TWO (2) 4"C UNDERGROUND W/ PULL STRING. EXTEND TO ELECTRIC UTILITY SOURCE PER UTILITY COMPANY REQUIREMENTS.
2. PROPOSED LOCATION OF POLE MOUNTED UTILITY TRANSFORMER.
3. PROVIDE TWO (2) 4"C W/ PARALLEL 4 #350 MCM FOR ELECTRICAL SECONDARY FROM UTILITY TRANSFORMER TO CT CABINET/DISCONNECT. REFER TO SITE ELECTRICAL RISER ON SHEET ME2.01 FOR MORE INFORMATION. CONFIRM REQUIREMENTS WITH ELECTRIC UTILITY.
4. PROPOSED LOCATION OF CT/METER/DISCONNECT RACK. SEE ENLARGED FENCE ENCLOSURE PLAN FOR MORE INFORMATION.
5. PROVIDE TWO (2) MIN. 2"C FOR INTERNET/PHONE BOARD CONNECTION. COORDINATE LOCATION AND REQUIREMENTS WITH BUILDING MANUFACTURER AND TELEPHONE/CABLE UTILITY.
6. PROVIDE GFCI/WP RECEPTACLE AT DUMPSTER PAD. MOUNT ON UNISTRUT RACK AT 12" ABOVE GRADE.
7. ROUTE CIRCUIT THROUGH PHOTOCELL-CONTROLLED LIGHTING CONTACTOR.
8. SWITCHED JUNCTION BOX MOUNTED AT CEILING FOR PATIO LED STRING LIGHTS COORDINATE EXACT LOCATION OF SWITCH INSIDE BUILDING WITH OWNER AND BUILDING MANUFACTURER. REF. ARCH PLANS AND OWNER FOR DETAILS ON STRING LIGHTS.
9. PROVIDE WALL MOUNT FAN, RATED FOR OUTDOOR OPERATION, EQUAL TO Global Industrial™ 24", MODEL # WB292450, OUTDOOR RATED OSCILLATING WALL MOUNT FAN, 2 SPEED, 7,700 CFM, 3/10 HP. REFER TO ARCHITECTURAL SITE PLANS FOR MOUNTING. CONNECT FANS TO CEILING-MOUNTED SWITCHED OUTLETS (ONE PER FAN) FOR FAN CONTROL. COORDINATE EXACT LOCATION OF SWITCH INSIDE BUILDING WITH OWNER AND BUILDING MANUFACTURER. ENSURE FAN CIRCUITS HAVE A GFCI BREAKER INSTALLED PER NEC.

A1 POWER PLAN

SCALE: 1"=10'-0"

0 5 10 15 20

SMALLS SLIDERS
210 SW OLDHAM PARKWAY
LEES SUMMIT, MO 64081

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STATE OF MISSOURI
MARK T. KURZYNSKE
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10/22/25

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ELECTRICAL - SITE POWER PLAN

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SHEET ME1.01

DATE 10.01.2025

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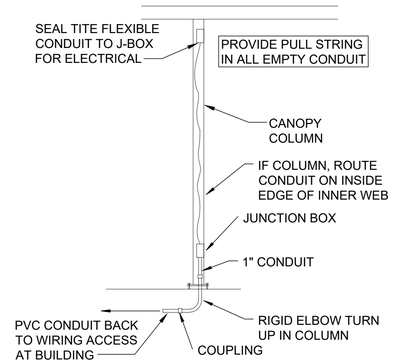
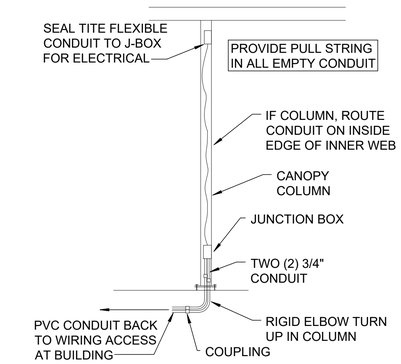
ELECTRICAL SITE KEYNOTES (ENLARGED PLANS):

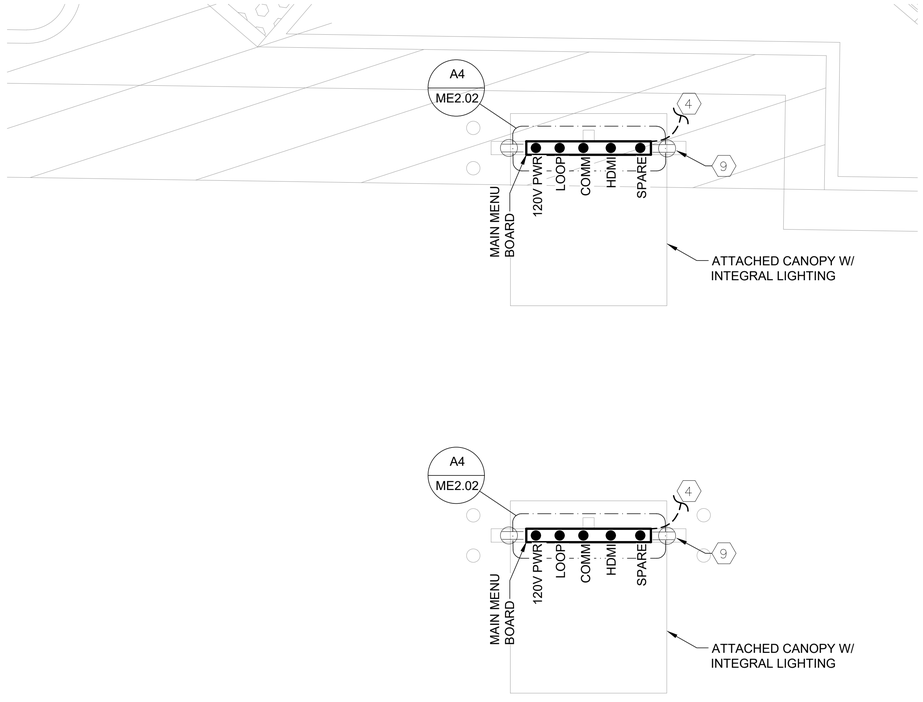
1. TWO (2) 4"C W/ PARALLEL 4 #350 MCM & #2 GND FOR BUILDING ELECTRICAL SERVICE ENTRANCE. COORDINATE WITH BUILDING MANUFACTURER FOR CONNECTION REQUIREMENTS.
2. LOCATION OF SITE WIRING ACCESS POINT FOR POWER AND DATA ENTRY. JUNCTION BOXES PROVIDED BY BUILDING MANUFACTURER. FIELD COORDINATE ALL SITE CIRCUITS AND LOW-VOLTAGE DATA CONNECTIONS THROUGH THESE JUNCTION BOXES.
3. POWER FOR CONDENSATE HEAT TAPE. CONFIRM ELECTRICAL REQUIREMENTS WITH COOLER MANUFACTURER.
4. PROVIDE CONDUITS W/ PULL STRINGS AT MAIN MENU BOARDS; REFER TO MENU BOARD CONDUIT SCHEMATIC ON SHEET ME2.02 FOR MORE INFORMATION. COORDINATE EXACT CONDUIT REQUIREMENTS WITH OWNER, VENDOR, AND SITE CONDITIONS.
5. NOT USED
6. NOT USED
7. NOT USED
8. NOT USED
9. PROVIDE DEDICATED 120V CIRCUIT FOR TWO RECEPTACLES LOCATED ON EITHER SIDE OF MENU BOARD PEDESTAL. PROVIDE WITH WEATHER PROOF COVERS.



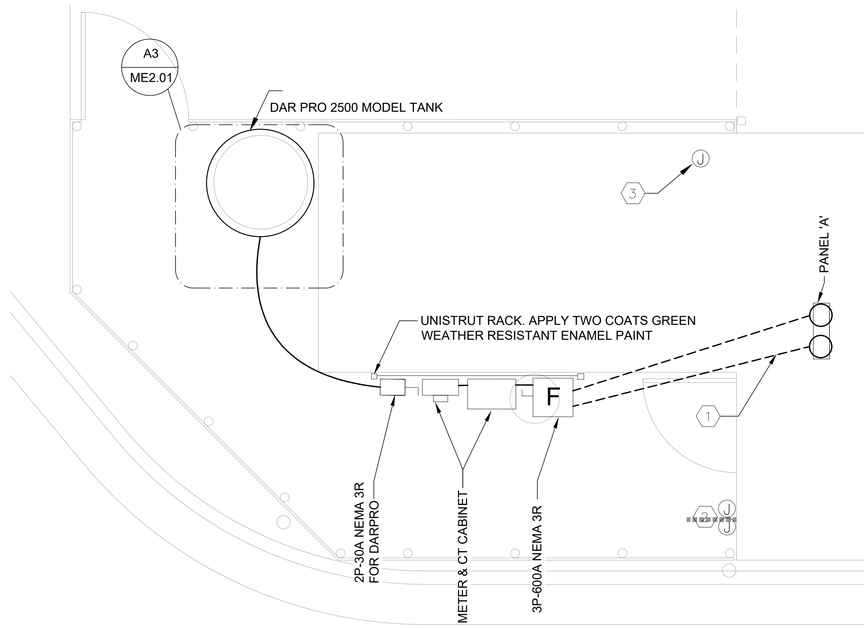
C4 CANOPY POLE SECTION - 120V
NOT TO SCALE



C5 CANOPY POLE SECTION - LOW VOLTAGE
NOT TO SCALE



B1 SITE PLAN - CANOPY - ENLARGED VIEW
SCALE: 3/8" = 1'-0"



A4 SITE PLAN - FENCED ENCLOSURE - ENLARGED VIEW
SCALE: 3/8" = 1'-0"

Smalls SLIDERS

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SITE PLAN - ENLARGED VIEWS

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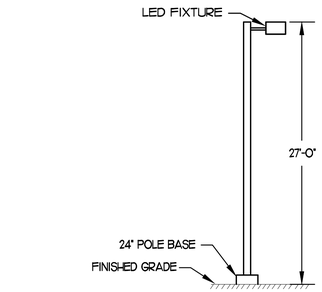
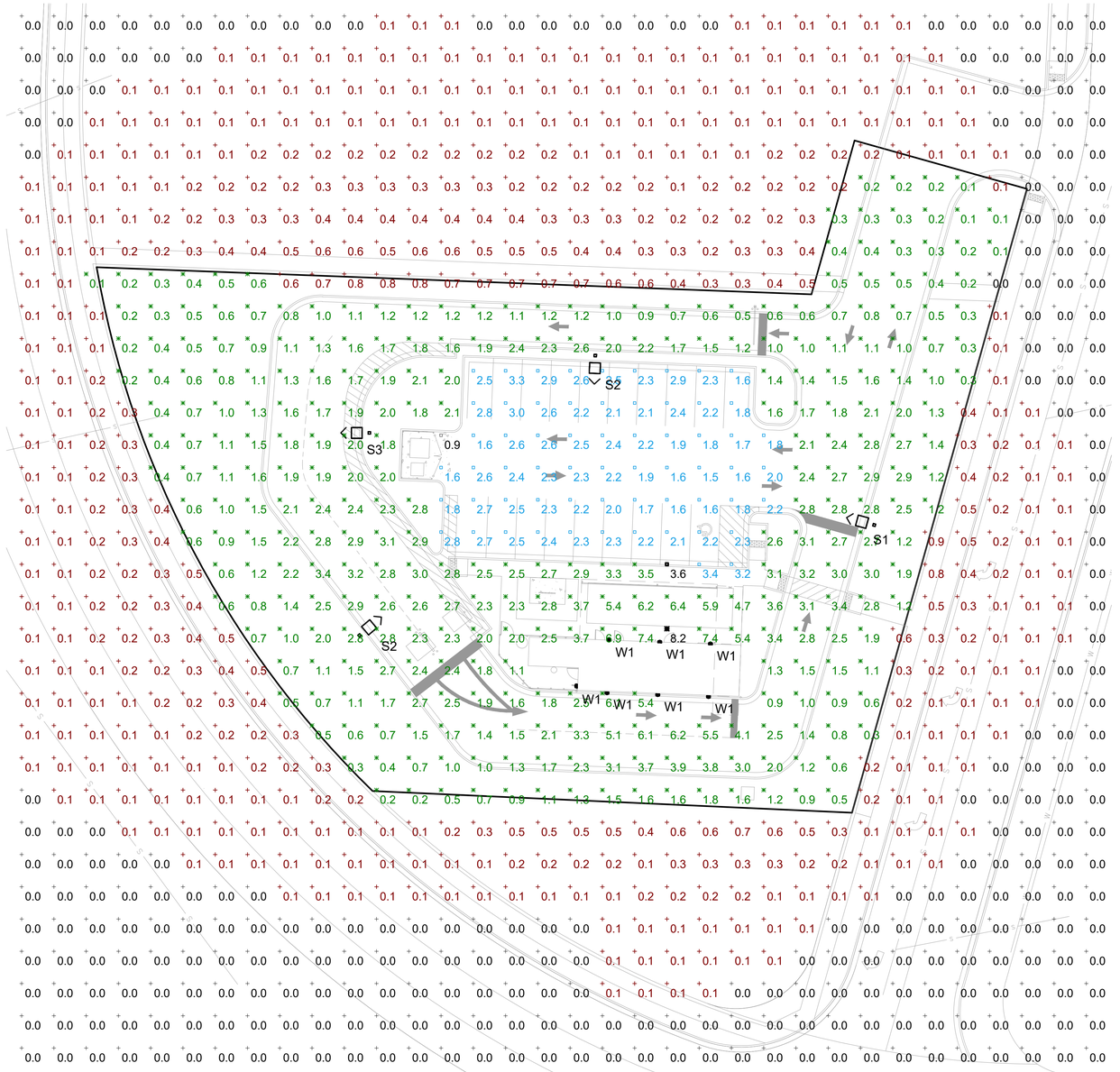


D1 SITE LIGHTING POLE DETAIL

NOT TO SCALE

Schedule								
Symbol	Label	Quantity	Manufacturer	Catalog Number	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	S1	1	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-C40-D-UNV-T3-BZ MA1017	2	8575	0.95	131
	S2	2	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-C40-D-UNV-T4-BZ MA1017	2	8544	0.95	131
	S3	1	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-C40-D-UNV-T5-BZ MA1018	2	9130	0.95	131
	W1	7	RZ LIGHTING	WP10-30W	1	3900	0.95	30
S POLES SHALL BE 25' SQUARE STRAIGHT STEEL POLES BY KW INDUSTRIES: SSP25-4.0-7-BRZ-DM10/2180-BC. MOUNT POLES ON A 2' CONCRETE POLE BASE. POLES AND LIGHTING FIXTURES TO HAVE A DARK BRONZE FINISH.								

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone	+	0.7 fc	8.2 fc	0.0 fc	N/A	N/A
Smalls Lot Summary	×	1.9 fc	8.2 fc	0.0 fc	N/A	N/A
Parking Lot Summary	□	2.3 fc	3.6 fc	0.9 fc	4.0:1	2.6:1



A3 PHOTOMETRIC PLAN

SCALE: 1"=20'-0"

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SITE PLAN - PHOTOMETRIC PLAN

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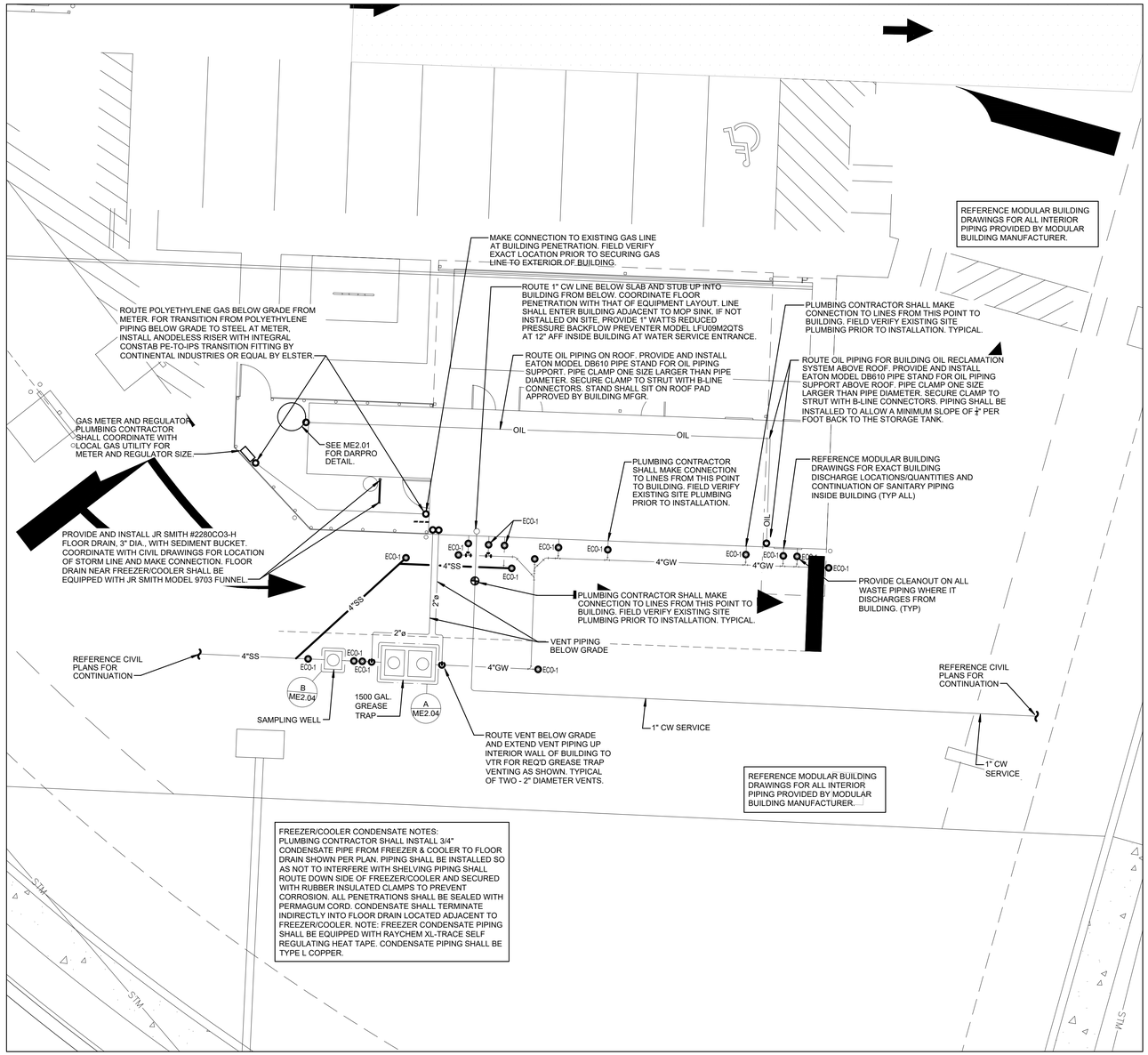

1 SITE PLAN - SANITARY
1" = 10'-0"

CLEANOUT SCHEDULE

MARK	WCO	FCO-1	ECO-1	ECO-2
MANUFACTURER	ZURN	ZURN	ZURN	ZURN
MODEL NUMBER	Z1466	ZN-1400	Z1400	Z-1400
APPLICATION	INTERIOR FINISHED WALLS	INTERIOR FINISHED FLOORS	EXTERIOR PAVED AREAS	EXTERIOR UNPAVED AREAS
CLEANOUT MATERIAL	BRONZE	CAST IRON	CAST IRON	CAST IRON
COVER/TOP MATERIAL	STAINLESS STEEL	POLISHED NICKEL BRONZE	CAST IRON	CAST IRON
PIPE CONNECTION SIZE	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
PIPE CONNECTION TYPE	THREADED PLUG	PUSH FITTING	NO HUB	PUSH FIT
SCHEDULE NOTES	1,3	1,3	1,2,3	1,3

SCHEDULE NOTES:
1. COORDINATE CLEAN OUT OPTIONS WITH FLOOR, WALL, OR GRADE CONSTRUCTION.
2. PROVIDE EXTRA HEAVY DUTY / NON-TILT TOP.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, INCLUDING WARRANTY.

2 CLEANOUT SCHEDULE

PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE RESTRICTIVE OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE "K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. U.N.O., ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-198. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE ½" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM ½" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

N. ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS. GAS PIPING SHALL BE PAINTED WITH A ZINC-BASED PRIMER WITH A COLOR TOP COAT SPECIFIED BY OWNER. WHERE TOP COAT IS NOT REQUIRED, TWO COATS OF ZINC BASE PRIMER SHALL BE USED. ALL FIELD JOINTS SHALL BE COATED WITH TWO COATS OF A ZINC BASED PRIMER. SLEEVE ALL WALL PENETRATIONS WITH SCHEDULE 40 PVC AND PROVIDE STAINLESS STEEL ESCUTCHEONS ON BOTH SIDES OF WALL PENETRATIONS.

O. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

P. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II -EXECUTION (C15100)

2.01 TRENCHING (C15100)

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION (C15100)

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT ½" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.

K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED UNDERGROUND.

2.03 TESTING (C15100)

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

ME1.04 - SITE PLAN - SANITARY NOTES	
ME1	CONTRACTOR SHALL SURVEY EXISTING CONDITIONS PRIOR TO WORK OF ANY KIND. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, SANITARY SEWER, GAS, DRAINS, COMMUNICATIONS, ETC AND PROTECT DURING ALL WORK. VERIFY EXISTING INVERT ELEVATIONS TO ENSURE NEEDED INVERT IS AVAILABLE FOR PLUMBING SYSTEM.
ME2	EXTEND 4" SANITARY SEWER LINE TO MAIN AND TIE IN. REFERENCE CIVIL PLANS FOR CONTINUATION.

MANUFACTURER	ZURN
MODEL NUMBER	ZN-415S-P
FLOORDRAIN MATERIAL	CAST IRON
TOP MATERIAL	NICKEL BRONZE
PIPE CONNECTION SIZE	3"
TRAP PRIMER CONNECTION SIZE	1/2" *
TRAP GUARD	PROSET TRAP GUARD
PIPE CONNECTION TYPE	NO HUB
TOP DIMENSION	5"X5"
SEDIMENT BUCKET	-
SCHEDULE NOTES	-

SCHEDULE NOTES:

1. " * " IF SPECIFIED. FLOORDRAIN WITH TRAP PRIMER SHALL BE TRAPPED AND PRIMED BY AN APPROVED TRAP PRIMER AND WATER SUPPLY. INSTALL TRAP PRIMERS PER CODE AND AT AN ELEVATION HIGHER THAN THE FLOOR DRAIN SERVED.
2. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, INCLUDING WARRANTY.
3. FLOOR DRAIN TO BE INSTALLED IN REFUSE AREA ONLY IF REQUIRED BY LOCAL JURISDICTION.

ROUTE POLYETHYLENE GAS BELOW GRADE FROM METER. FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT METER. INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.

3 FLOORDRAIN SCHEDULE

SMALLS SLIDERS
210 SW OLDHAM PARKWAY
LEES SUMMIT, MO 64081

Kurzynske & Associates
CONSULTING ENGINEERS
2705 Lebanon Pike – Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

SEALED:

STATE OF MISSOURI
MARK T. KURZYNSKE
2000153990
REGISTERED PROFESSIONAL ENGINEER
10/22/25

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SITE PLAN - GREASE TRAP

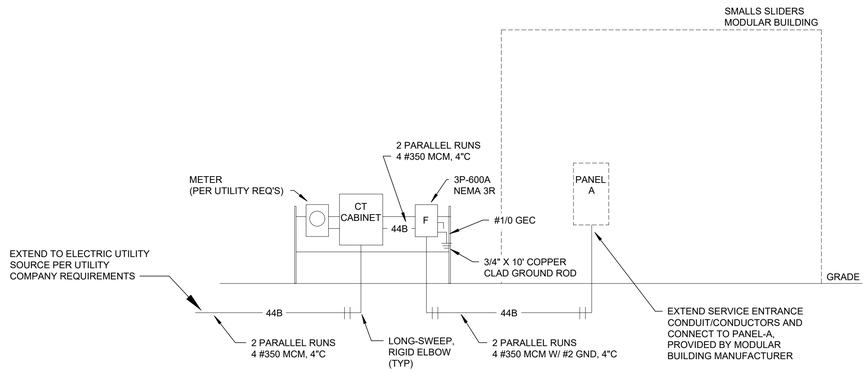
REVISIONS	
NO.	DATE
*	** ** **

PROJECT NO: SS2507

SHEET ME1.04

DATE 10.01.2025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

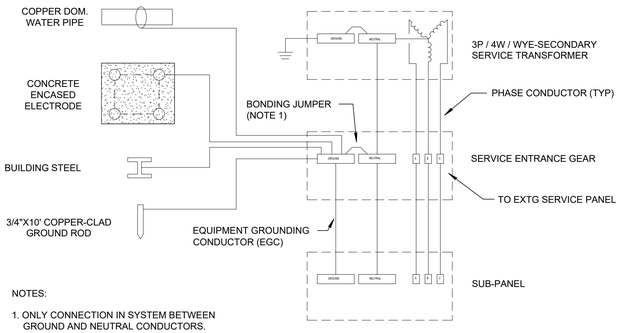


NOTES:

1. CONTRACTOR RESPONSIBLE TO COORDINATE ELECTRICAL SERVICE WITH ELECTRICAL UTILITY COMPANY.
2. ALL FEES REQUIRED BY UTILITY COMPANY TO PROVIDE SERVICE ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. INFORMATION SHOWN IS DIAGRAMMATIC AND IS NOT INTENDED TO REPRESENT PHYSICAL ARRANGEMENTS, LOCATIONS, ROUTING OR CONNECTIONS. PHYSICAL LAYOUTS ARE TO BE PER FIELD CONDITIONS AND AS INDICATED ELSEWHERE IN THE ELECTRICAL PLANS. COORDINATE ALL WORK WITH THE UTILITY COMPANY PRIOR TO BID OR WORK OF ANY KIND.
4. REFERENCE "CONDUIT AND CONDUCTORS SCHEDULE" (THIS SHEET) FOR FEEDER CIRCUIT SIZES.
5. FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT.
6. PROVIDE ARC-FLASH WARNING LABELS THAT COMPLY WITH NEC 2020 110.16(A) ON ELECTRICAL EQUIPMENT.

C2 ELECTRICAL RISER DIAGRAM

NOT TO SCALE

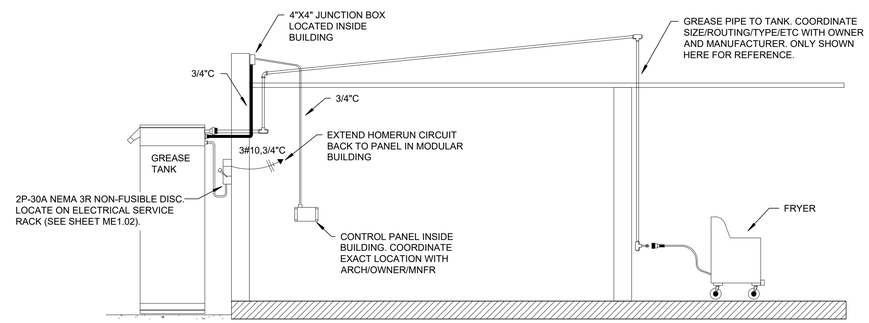


NOTES:

1. ONLY CONNECTION IN SYSTEM BETWEEN GROUND AND NEUTRAL CONDUCTORS.

B3 TYPICAL GROUNDING DETAIL

NOT TO SCALE



A3 DETAIL - DAR-PRO INSTALLATION

NOT TO SCALE

CONDUIT AND CONDUCTORS SCHEDULE

Mark No.	OCP Device Amp/Poles	Conductors Total Ampacity 60d C	75d C	Conductors Phase & Neutral Qty	Size	Type	Min Eq Grd Qty	Size	Raceway Size (nominal inches) No. Sets	Phase, Neutral & Equip Grd EMT	IMC	RIGID	PVC	With Isolated Ground EMT	IMC	PVC
1	20/1	20	–	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	–	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	–	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	–	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	–	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	–	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	–	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	–	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	–	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	–	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	–	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	–	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	50/1	55	–	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
14	50/2	55	–	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
15	50/3	55	–	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
16	60/1	70	–	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
17	60/2	70	–	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
18	60/3	70	–	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
19	70/1	70	–	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
20	70/2	70	–	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
21	70/3	70	–	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
22	80/2	85	–	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/3	85	–	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
24	90/2	95	–	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	90/3	95	–	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
26	100/2	110	–	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
27	100/3	110	–	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
28	110/2	–	115	3	2	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
29	110/3	–	115	4	2	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
30	125/2	–	130	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
31	125/3	–	130	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
32	150/2	–	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
33	150/3	–	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
34	175/2	–	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/3	–	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
36	200/2	–	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	200/3	–	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
38	225/2	–	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
39	225/3	–	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
40	250/3	–	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
41A	300/3	–	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
41B	300/3	–	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42A	350/3	–	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
42B	350/3	–	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
43A	400/3	–	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
43B	400/3	–	400	4	3/0	THW	2	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
44A	600/3	–	570	4	300	THW	2	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
44B	600/3	–	620	4	350	THW	2	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.50
45A	800/3	–	760	4	500	THW	2	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
45B	800/3	–	820	4	600	THW	2	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
46	1000/3	–	1005	4	400	THW	3	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
47	1200/3	–	1240	4	350	THW	4	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
48	1600/3	–	1675	4	400	THW	5	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Notes:

Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) – formerly Table 310.16 – is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.

smalls SLIDERS

SMALLS SLIDERS
210 SW OLDHAM PARKWAY
LEES SUMMIT, MO 64081

Kurzynske & Associates
CONSULTING ENGINEERS
2705 Lebanon Pike – Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

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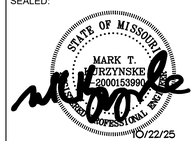

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ELECTRICAL - SITE PLAN DETAILS

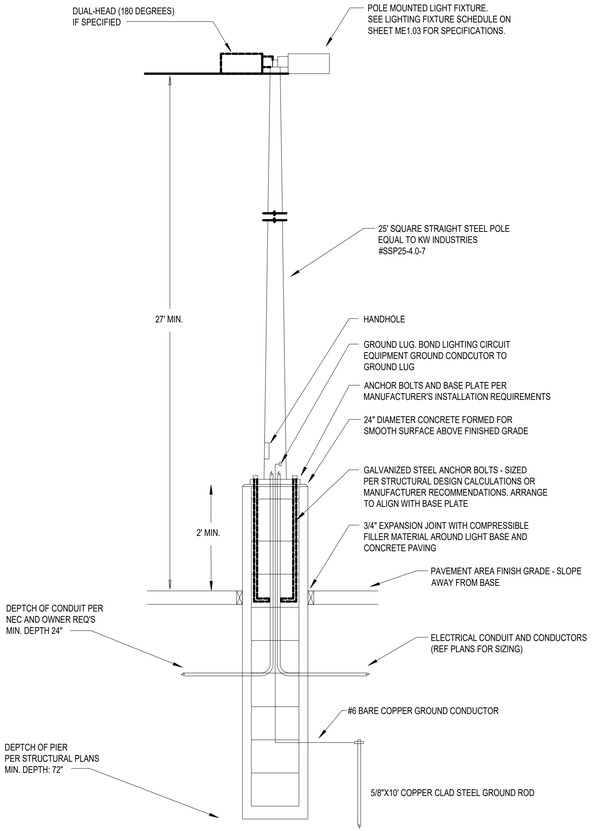
REVISIONS NO.	DATE
*	**.**.**

PROJECT NO: SS2507

SHEET ME2.01

DATE 10.01.2025

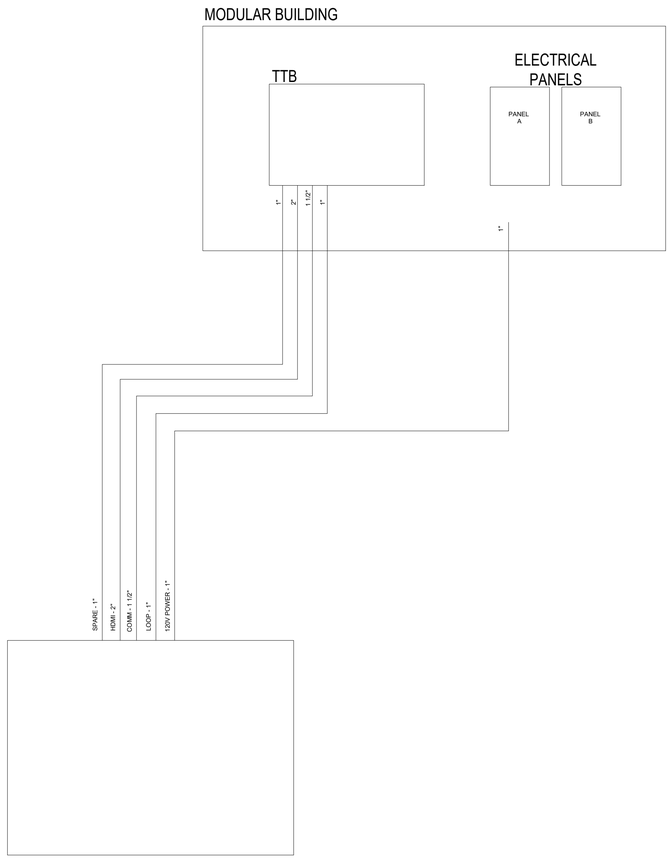
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18



(VERIFY THROUGH STRUCTURAL CALCULATIONS BASED ON EXISTING SOILS AND LIGHT POLE SPECIFIED.) DESIGN SHALL BE BY LICENSED CIVIL/STRUCTURAL ENGINEER IN THE STATE OF PROJECT LOCATION.

A1 SITE LIGHT POLE BASE DETAIL

NOT TO SCALE



MAIN MENU BOARD #1

NOTE: THIS CONDUIT DIAGRAM IS SCHEMATIC IN NATURE AND IS NOT INTENDED TO REPRESENT PHYSICAL ARRANGEMENTS OR LOCATIONS OF EQUIPMENT. IT IS INTENDED TO CONVEY THE "FROM/TO" DESIGNATIONS FOR CONDUIT ASSOCIATED WITH THE MENUBOARD (ONLY) AND TO SUPPLEMENT THE INFORMATION PROVIDED ON OTHER SHEETS. REFERENCE OTHER SHEETS FOR ADDITIONAL CONDUIT/CIRCUIT REQUIREMENTS NOT DEPICTED ON THIS SHEET.

A4 MENU BOARD CONDUIT SCHEMATIC

NOT TO SCALE

smalls SLIDERS

SMALLS SLIDERS
210 SW OLDHAM PARKWAY
LEES SUMMIT, MO 64081

Kurzynske & Associates
CONSULTING ENGINEERS
2705 Lebanon Pike – Suite One
Nashville, Tennessee 37214
Telephone: (615) 255–5203

SEALED:

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ELECTRICAL - SITE DETAILS AND SCHEMATICS

REVISIONS	
NO.	DATE
*	**.**.**

PROJECT NO: SS2507

SHEET ME2.02

DATE 10.01.2025

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

LED Full Cut-Off Wall Pack

Description:

Light up your outdoor area with RZ's LED Full Cut-Off Wall Pack. It is a high efficient lighting solution that provides a long-lasting and energy-saving. The rugged housing offers advanced thermal management and protection against outdoor environments without compromising aesthetics.

Optional:

- ETL/cETL/DLC premium certificate.
- Easy installation.
- Wet location rated IP65.
- Durable die-cast aluminum housing.
- Photocell and motion sensor options.
- UV-resistant polycarbonate refractor lens.
- Emergency power 4W & operating time 1.5 hours.
- TypeII / TypeIII / TypeIV distribution optics standard

Applications:

Outdoor wall-mount applications: building facade, commercial, industrial, retail, hospitality buildings that demand long service life and low maintenance.

Parameters:

Model No.	WP10-30W	WP10-40W	WP10-50W	WP10-60W	WP10-80W	WP10-100W	WP10-120W
Input Power	30W	40W	50W	60W	80W	100W	120W
Lumen	3900lm	5200lm	6500lm	7800lm	10400lm	13000lm	15600lm
Efficacy	130LM/W (±10%)						
Input voltage	120-277VAC/120-347VAC						
Color Temperature	4000K/5000K/5700K						
THD	<20%						
Surge Protection	L-N: 2KV L/N-PE: 4KV						
LED Brand	Lumileds						
LED Type	3030						
LED QTY	48pcs	48pcs	64pcs	72pcs	96pcs	112pcs	140pcs
Viewing Angle	Type II / Type III / Type IV						
Operating Temperature	-22°F to 113°F (-30°C to +45°C)						
Operating Humidity	RH<90%						
Storage Temperature	-40°F to 158°F (-40°C to +70°C)						
Storage Humidity	RH<95%						
Color Rendering Index	Ra>70						
IP Rating	IP65						
Power Factor	≥0.90						
Frequency	50/60Hz						
Certification	cETL/ETL/DLC Premium						
Housing	Die-cast Aluminum						
Finish	Black/Bronze/Customized (Optional)						
Driver Brand	Weipeng						
Additional function	0-10V / 1-10V / Photocell/Microwave Motion Sensor /Power Adjustable / CCT Adjustable						
Life Time	L70 @ 50,000Hrs						
Warranty	5 Years						

Web: www.rzledlighting.com | Tel: +86-755-27803791 | Add: 3rd Floor, Building 2, High-tech Zone, Fuyuan 1st Road, Fuyong Sub-district, Bao'an District, Shenzhen, China.

Web: www.rzledlighting.com | Tel: +86-755-27803791 | Add: 3rd Floor, Building 2, High-tech Zone, Fuyuan 1st Road, Fuyong Sub-district, Bao'an District, Shenzhen, China.

CI LIGHT FIXTURE - WALL PACK "W"

NOT TO SCALE

Project		Catalog #		Type	
Prepared by		Notes		Date	

Lumark

Prevail LED

Area / Site Luminaire

Product Features

Lumen Technology | BAA | Light Afinitive™ | Made in USA

Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

Product Certifications

TSTN | DLC Premium | DLC Listed | DLC Premium | FC CAN ICES-005

RoHS | IP66 | IK10 | 5YEAR

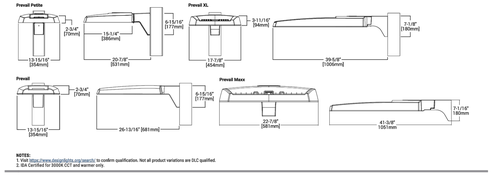
Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Dimensional Details



NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. DLC Certified for 5000K CCT and warmer only.

AI LIGHT FIXTURE - SITE LIGHT "S"

NOT TO SCALE

Lumark
Prevail LED

Ordering Information

SAMPLE NUMBER: **PRV-XL-C75-D-UNV-T4-SA-BZ**

Product Family [1, 2]	Light Engine [3]	Color Temperature	Driver	Voltage	Distribution	Mounting	Color
PRV-P=Prevail Petite **BAA-PRV-P**=Prevail Petite BAA Compliant [4] **TAA-PRV-P**=Prevail Petite TAA Compliant [4]	**C10**=(1 LED) 4,500 Nominal Lumens **C15**=(1 LED) 6,500 Nominal Lumens **C20**=(1 LED) 9,800 Nominal Lumens **C25**=(1 LED) 11,800 Nominal Lumens	**740**=703CRI, 4000K **727**=703CRI, 2700K **730**=703CRI, 3000K **750**=703CRI, 5000K **854B**=85CRI, 4000K	**D**=Dimming (0-10V)	**UNV**=Universal (120-277V) **277**=High Voltage, 347-480V [5] **8**=480V [5] **3**=347V **2V**=DuoVolt (277-480V) [5, 6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**SA**=QM Standard Versatile Arm **MA**=QM Mast Arm **FMA**= Fixed Mast Arm [8] **WM**=QM Wall Mount Arm **SA2**=QM Versatile Arm **A2-JA-WM**=Adjustable Arm - Wall Mount [9] **A2-JA**=Adjustable Arm - Pole Mount [9] **A2-JS**=Adjustable Arm - Slipfitter, 2 3/8" vertical tenon [9, 10] **SP2**=Adjustable Arm - Slipfitter, 2 3/8" vertical tenon [9, 10]	**BZ**=Bronze **AP**=Grey **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	Accessories (Order Separately) [10, 21]
7030=70 CRI / 3000K CCT [7] **7050**=70 CRI / 5000K CCT [7] **CC**=Coastal Construction finish [19] **HSS**=House Side Shield [11] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **10K**=10kV/10kA SL 1449 Fused Surge Protective Device **20MOV**=20kV MOV Surge Protective Device **20K**=20kV UL 1449 Fused Surge Protective Device **PE**=NEMA 3-Pin Twistlock Photocontrol Receptacle [12] **PE-HEMA**=3-PIN Twistlock Photocontrol Receptacle [12] **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [12] **FADC**=Field Adjustable Dimming Controller [20] **MS/DIM-L08**=Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting Height [13, 14] **MS/DIM-L20**=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting Height [13, 14] **MS/DIM-L40**=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting [13, 14]	**SPB1**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting Height [13, 14, 15] **SPB2**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting [13, 14, 15] **SPB4**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting Height [13, 14, 15, 16] **WPB2EH**=WaveLinx Pro, SB Driver, Dimming Motion and Daylight, WAC Programmable, 8' - 15' Mounting [13, 14, 15, 17] **WPC1EH**=WaveLinx Pro, SB Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [13, 14, 15, 17] **WL1EH**=WaveLinx Lite, SB Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [13, 14, 15, 17] **[See Table Below]**=LumenSafe Integrated Network Security Camera [18]	**PRY-SA**=Standard Arm Mounting Kit [8] **PRYMA-XX**=Mast Arm Mounting Kit [8] **PRYWM-XX**=Wall Mount Kit [8] **PRY-AJA-XX**=Adjustable Arm - Pole Mount Kit [8] **PRY-AJA-WM-XX**=Adjustable Arm - Slipfitter Kit [8] **PRY-AJA-WM-XX**=Adjustable Arm - Wall Mount Kit [8] **PRYXLSA-XX**=Standard Arm Mounting Kit [8] **PRYXLMA**=Mast Arm Mounting Kit [8] **PRYXLWM-XX**=Wall Mount Kit [8] **PRY-XL-AAJA-XX**=Adjustable Arm - Pole Mount Kit [8] **PRY-XL-AAJA-WM-XX**=Adjustable Arm - Slipfitter Kit [8] **PRY-XL-AAJA-WM-XX**=Adjustable Arm - Wall Mount Kit [8] **PRY-M-AAJA-XX**=Adjustable Arm - Pole Mount Kit [8] **PRY-M-AAJS-XX**=Adjustable Arm - Slipfitter Kit [8] **PRY-M-AAJA-WM-XX**=Adjustable Arm - Wall Mount Kit [8] **MA1010-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon **MA1811-XX**=2@180° Tenon Adapter for 3-1/2" O.D. Tenon	**MA1017-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1018-XX**=2@180° Tenon Adapter for 2-3/8" O.D. Tenon **SRA238**=Tenon Adapter from 3" to 2-3/8" **PRYXLCSB**=Cross Slip Fitter [8] **PRYXLCSB-FBV**=Full Drop Visor [8] **HS/VEHD**=House Side Shield Kit [8, 11] **VGS-FB**=Vertical Glare Shield Kit, Front/Back [8] **VGS-SIDE**=Vertical Glare Shield Kit, Side [8] **DA/MA1013**=Photocontrol Shorting Cap **DA/MA1014**=NEMA Photocontrol - 120V **DA/MA1016**=NEMA Photocontrol - Multi-Tap 105-285V **DA/MA1201**=NEMA Photocontrol - 347V **DA/MA1027**=NEMA Photocontrol - 480V **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor **WSLC-7P-10A**=WaveLinx Outdoor Control Module (7-PIN) [18]

NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Custom configurations available for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IS5000ZEN and pole white paper WP5100EN for additional support information.
3. Rated lumens and wattage per ANSI standard practice and IESNA LM-79-08. Values tested by American Association of 1933 (IAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
4. Standard 480V (277 and 347V).
5. 480V not to be used with ungrounded or impedance grounded systems.
6. DuoVolt automatically selects between 277V and 480V to maximize power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duovolt for more information.
7. Use dedicated IES files or product website for non-standard CCTs.
8. House Side Shield not available with T5 distribution. Not available with PRV-C60 lumen package.
9. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package.
10. Coastal construction finish salt spray tested to over 5,000 hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
11. If DuoVolt (3V) is specified, use a photocontrol that matches the input voltage used.
12. Photocontrol ordered separately. Must be ordered with a photocontrol receptacle (PE & PER7) or another controls system (MS or SPB). Option not available with DuoVolt (2V) voltage option.
13. Utilizes the Watt stopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately.
14. Utilizes the Watt stopper sensor FSP-241 series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configure via mobile application. See Controls section for details.
15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
16. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Commissioning requires mobile application and internet connection. Software and requires system components to be installed for operation. See website for more WaveLinx application information.
17. Replace XX with sensor color (WH, BZ, or BK).
18. Only available in PRV-XL configurations C15, C10B, C12S, C15D, or C17S.
19. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information.
20. Replace XX with paint color.
21. Sold as kit. Includes all components, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
22. Not for use with PRV-XL or PRV-W configurations.
23. Only for use with PRV. Not applicable to PRV-W, PRV-XL, or PRV-P.
24. Must order one per optic; ED when ordering as a field-installable accessory (1, 2, 4, 6 or 8).
25. Use this code to combine multiple options. Can be used to combine options requiring high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PE & PER7) option. The WSLC-7 cannot be used in conjunction with other controls systems (MS or SPB). Operates on 120-347V input voltage.
27. Only for use with PRV-M configurations.
28. Only for use with PRV-XL configurations.
29. Fixed for PRV-M.
30. Cannot be used with PR7 or other motion response control options

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology	**N**=Dome Camera, High Res **Z**=Dome Camera, Remote PTZ	**C**=Cellular, Customer Installed SIM Card **A**=Cellular, Factory Installed AT&T SIM Card	**V**=Cellular, Factory Installed Verizon SIM Card **S**=Cellular, Factory Installed Sprint SIM Card	**E**=Ethernet Networking

Stock Ordering Information

Product Family [1]	Light Engine	Voltage	Distribution
PRV=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C20**=(1 LEDs) 14,200 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens	**UNV**=Universal (120-277V) **347**=347V	**T3**=Type III **T4**=Type IV
PRV-XL=Prevail XL	**C15**=(4 LED) 26,100 Nominal Lumens **C10B**=(4 LED) 28,000 Nominal Lumens **C12S**=(4 LED) 36,000 Nominal Lumens **C15D**=(6 LED) 41,100 Nominal Lumens **C17S**=(6 LED) 48,600 Nominal Lumens		

NOTES:
1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm.
2. Only available in PRVS configurations C15, C20, C40 or C60.

Lumark
Prevail LED

Energy and Performance Data

View PRV-P IES files | View PRV IES files | View PRV-XL IES files

Power and Lumens

Product Family	Prevail Petite				Prevail				Prevail XL				Prevail Maxx			
Light Engine	C10	C15	C20	C25	C15	C25	C40	C60	C75	C100	C125	C150	C175	C200	C225	C250	C275
Power (Watts)	35	49	73	94	52	96	131	153	176	217	264	285	346	346	418	487	588
Input Current @ 120V (A)	0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90
Input Current @ 277V (A)	0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06
Input Current @ 347V (A)	0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70
Input Current @ 480V (A)	0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21
Distribution [1]																	
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
Type III	3000K Lumens [1]	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	78,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens [1]	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens [1]	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,669	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens [1]	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808

NOTES:
1. For 5000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Prevail and Prevail Petite at 25°C	91.30%	> 194,000
Prevail and Prevail Petite at 40°C	87.59%	> 134,000
Prevail XL at 25°C	91.40%	> 204,000
Prevail XL at 40°C	89.41%	> 158,000
Prevail Maxx at 25°C	91.40%	> 204,000
Prevail Maxx at 40°C	89.41%	> 158,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	**1.02**
15°C	**1.01**
25°C	**1.00**
40°C	**0.99**

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

FADC Settings

FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

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SMALLS SLIDERS
210 SW OLDHAM PARKWAY
LEES SUMMIT, MO 64081

LIGHTING FIXTURE CUTSHEETS

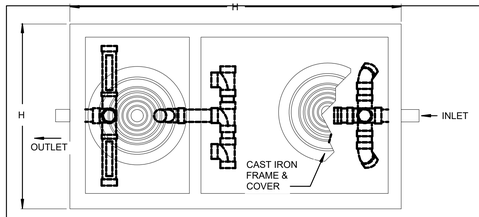
REVISIONS	
NO.	DATE
*	** ** **

PROJECT NO: SS2507

SHEET ME2.03

DATE 10.01.2025

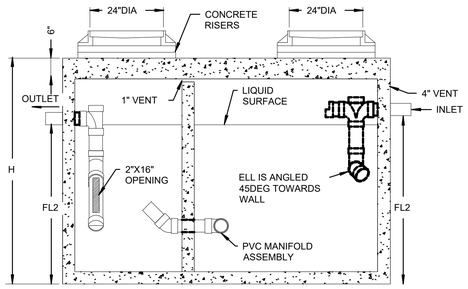
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18



MODEL NO.	CAP. (GAL)	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH L	HEIGHT H	INLET FL1	INLET FL2
GT-500	500	1,180	11,300	9'	5'	4' 8"	3' 2"	2' 10"
GT-750	750	1,530	12,000	9'	5'	5' 1"	3' 7"	3' 4"
GT-1000	1000	2,360	13,600	9'	5'	6' 1"	4' 7"	4' 4"
GT-1500	1500	3,500	17,300	10'	6'	6' 9"	5' 1"	4' 10"
GT-2000	2000	4,600	21,500	13'	7'	5' 7"	4' 2"	3' 11"
GT-2500	2500	6,000	24,700	13'	7'	7'	5' 7"	5' 3"
GT-3000	3000	9,000	26,900	13'	7'	7' 10"	6' 5"	6' 1"
GT-3500	3500	10,400	29,600	13'	7'	9'	7' 6"	7' 2"
GT-4000	4000	11,000	40,600	16'	8' 6"	7'	5' 6"	5' 3"
GT-4500	4500	11,500	41,300	16'	8' 6"	7' 6"	6' 1"	5' 10"
GT-5000	5000	13,225	44,000	16'	8' 6"	8'	6' 7"	6' 4"
GT-6000	6000	16,000	47,300	16'	8' 6"	9'	7' 8"	7' 5"

NOTES:

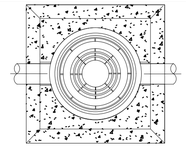
1. CONCRETE IS CLASS II WITH A DESIGN STRENGTH OF 5000 PSI AT 28 DAYS. BASE AND TOP ARE OF MONOLITHIC CONSTRUCTION. JOINTS SEALED WITH BUTYL JOINT SEALANT.
2. REINFORCEMENT IS GRADE 60 STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.
3. MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURER OF A48-30 CAST IRON. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER UNLESS SPECIFIED AND RATED FOR HS-20 LOADING.



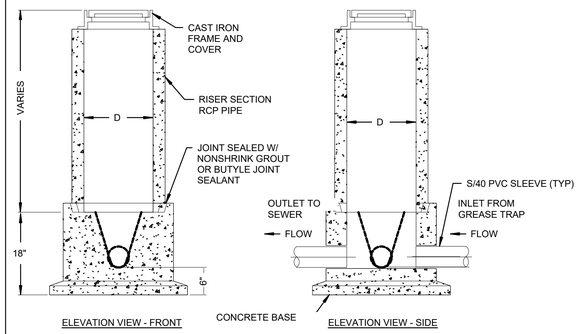
NOTES:

1. THE INTERCEPTOR (PARK MODEL GT-1) WILL BE DESIGNED,CONSTRUCTED, AND INSTALLED FOR ADEQUATE LOAD BEARING CAPACITY. THE INTERCEPTOR WILL BE INSTALLED OUTSIDE THE BUILDING. IF LOCATED IN A TRAFFIC AREA, INDICATE THAT THE INTERCEPTOR AND ITS COVERS WILL BE TRAFFIC RATED. INTERCEPTOR DESIGN SHALL BE EQUIVALENT TO PARK EQUIPMENT COMPANY.
2. THE INTERCEPTCOR MANHOLE COVERS, LIDS, RINGS, ETC. SHALL BE SEALED FROM INFLOW AND INFILTRATION, AT LEAST 24" IN DIAMETER, MEET OR EXCEED AASHTO STANDARD M-306 FOR LOAD BEARING, AND EQUIVALENT TO AN EAST JORDAN IRONWORKS V-1432 OR A SIGMA FOUNDRY MH1675.
3. BRICKS, STONES, OR ANY OTHER UNAPPROVED DEVICE WILL NOT BE USED TO BRING MANHOLE OPENINGS OR COVERS TO GRADE. RISERS OR OTHER COMPONENTS SHALL NOT IMPEDE THE MANHOLE OPENINGS. MANHOLE OPENINGS SHALL BE SEALED FROM INFLOW AND INFILTRATION.
4. THE SAMPLE WELL DESIGN SHALL BE EQUIVALENT TO A PARK EQUIPMENT CO. SWB-1, PW EAGLE WAC-15 OR CSC-15, OR SCHIER FOGLIFTER. SAMPLE WELLS MUST HAVE A MINIMUM DIAMETER OF 15" AND BE INSTALLED OUTSIDE THE BUILDING. ALL COVERS, LIDS, RINGS, ETC. SHALL BE SEALED FROM INFLOW AND INFILTRATION AND SHALL NOT HAVE HOLES THROUGH THEM. THE SAMPLE WELL MUST BE PLUMBED TO CAPTURE ALL DISCHAGERS FROM THE FACILITY (INCLUDING BOTH DOMESTIC AND GREASE WASTE.)
5. THE SECURING DEVICE WILL CONSIST OF A VALVE BOX TOP SECTION, WITH AN EYE BOLT MOUNTED IN CONCRETE. THE DEVICE CONSTRUCTION MUST BE EQUIVALENT TO BASS & HAYS 340-1. THE SECURING DEVICE SHALL BE LOCATED WITHIN TWO FEET OF THE SAMPLE WELL.

DETAIL - GREASE INTERCEPTOR TOP AND SIDE VIEW
(A)



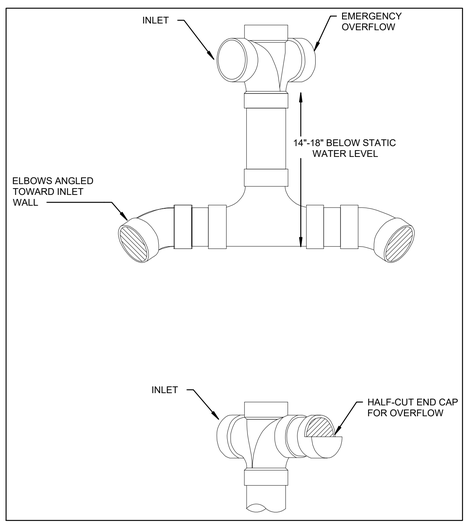
MODEL NO.	PIPE SIZE	D	W
SWB-15X24	4"	15"	24"
SWB-15X24	6"	15"	24"
SWB-24X34	4"	24"	34"
SWB-24X34	6"	24"	34"



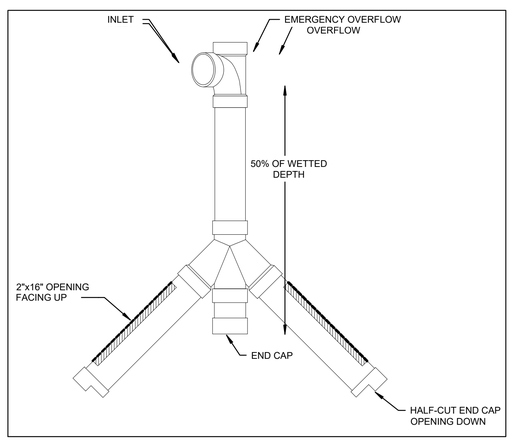
NOTES:

1. USE CLASS 1 CONCRETE WITH DESIGN STRENGTH OF 5000 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.
2. GRADE 60 REINFORCED. STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.
3. CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30, HEAVY-DUTY AASHTO H-20.
4. USE 15" T&G R.C.P. FOR INSTALLATION 6'-0" DEEP AND LESS.
5. USE 24" T^G R.C.P FOR INSTALLATION GREATER THAN 6'-0" DEEP. (STD RING AND MANHOLE COVER REQ'D).
6. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE)
7. INSTALLATION IN UNFINISHED AREAS SHALL BE 4" ABOVE FINISHED GRADE.
8. INSTALLATION IN PAVED AREAS SHALL BE BROUGHT TO FINISHED GRADE.
9. TO BE INSTALLED ON PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY PERSONNEL.

DETAIL - GREASE INTERCEPTOR SAMPLING WELL - TOP AND SIDE VIEW
(B)



DETAIL - GREASE INTERCEPTOR - INLET PIPING DETAIL
(C)

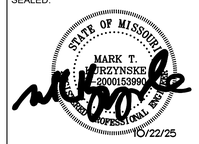


DETAIL - GREASE INTERCEPTOR - EXIT PIPING DETAIL
(D)

SMALLS SLIDERS
210 SW OLDHAM PARKWAY
LEES SUMMIT, MO 64081

Kurzynske & Associates
CONSULTING ENGINEERS
2705 Lebanon Pike – Suite One
Nashville, Tennessee 37214
Telephone: (615) 255–5203

SEALED:



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SANITARY - DETAILS - GREASE TRAP

REVISIONS	
NO.	DATE
*	** ** **

PROJECT NO: SS2507

SHEET ME2.04

DATE 10.01.2025

SLIDERS DRIVE-IN

GENERAL PROJECT NOTES

1. IN ADDITION TO THESE GENERAL NOTES, THE BUILDING MANUFACTURER SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR OTHER SPECIFIC INSTRUCTIONS AS THEY MAY AFFECT THE GENERAL CONSTRUCTION OF THIS PROJECT. DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE MANUFACTURER IS TO CLARIFY WITH THE ARCHITECT AND OWNER ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
2. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE STATE BUILDING CODES AND LOCAL RESTRICTIONS. SITE CONTRACTORS MUST COMPLY WITH CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES. ALL REQUIRED CITY / COUNTY / STATE PERMITS SHALL BE ACQUIRED BEFORE COMMENCING ANY CONSTRUCTION.
3. BUILDING MANUFACTURER SHALL MAINTAIN ONE COMPLETE SET OF PLANS OF APPROVED PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS IN GOOD CONDITION WITH EACH BUILDING MANUFACTURED AT ALL TIMES.
4. THE BUILDING MANUFACTURER SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS AND OWNER.
5. STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS TO DETERMINE LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED PRIOR TO CONTINUING WITH WORK IF ANY DISCREPANCIES OCCUR.
6. IT SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE SITE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
7. MEANS, METHODS, SAFETY MEASURES AND TEMPORARY SERVICES REQUIRED DURING CONSTRUCTION SHALL BE AT THE SOLE EXPENSE AND THE RESPONSIBILITY OF THE BUILDING MANUFACTURER AND SITE CONTRACTOR
8. ANY DETAILS OR NOTES REQUIRING FIELD VERIFICATION ARE TO BE DONE DURING THE BID PROCESS.
9. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY A REGISTERED THIRD PARTY AGENCY
10. SEE SHEET A1.1 FOR LOCATIONS OF DATA PLATE AND STATE LABEL IF APPLICABLE
11. PLANS MAY BE MIRRORED.
12. IF NECESSARY TO MEET ADA. REMOVE THE DOOR CLOSER FROM THE BATHROOM CLOSEST TO THE FAUX CONTAINER DOOR.

DESCRIPTIVE SUMMARY OF WORK

THE WORK INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT TO BUILD, FINISH, AND PROVIDE ALL SITE WORK AND UTILITIES, FOR A PROPOSED NEW RESTAURANT FOR THE "OWNER". THE WORK SHALL INCLUDE ALL ITEMS REQUIRED AS SHOWN ON THE DRAWINGS. IN ADDITION, ALL WORK ASSOCIATED WITH THE SITE DEVELOPMENT PAVING, PARKING, WALKWAYS, PATIO SLAB, AND SITE UTILITIES TO THE BUILDING ARE TO BE PROVIDED IN THIS CONTRACT. ALL MECHANICAL EQUIPMENT AND SYSTEMS, AS WELL AS ALL ELECTRICAL EQUIPMENT AND SYSTEMS ARE TO BE INCLUDED FOR A COMPLETE OPERATING SYSTEM WITH COORDINATION AND INSTALLATION INCLUDED.

ABBREVIATIONS

A.B.	ANCHOR BOLT	MAX	MAXIMUM
ABV	ABOVE	MFG	MANUFACTURE(R)
A.F.F.	ABOVE FINISHED FLOOR	MECH	MECHANICAL
A/C	AIR CONDITIONING	MIN	MINIMUM
ADA	AMERICANS W/ DISABILITIES ACT	MISC	MISCELLANEOUS
ADJ	ADJUSTABLE	M.R.	MOISTURE RESISTANT
ALUM	ALUMINUM	MTL	METAL
ARCH	ARCHITECT(URAL)	M.V.	MILLWORK VENDOR
@	AT		
BD	BOARD	N.I.C.	NOT IN CONTRACT
BLK	BLOCK(ING)	NO.	NUMBER
BM	BEAM	NOM.	NOMINAL
BOT	BOTTOM	NTS	NOT TO SCALE
B.O.	BOTTOM OF		
BLDG	BUILDING	O.C.	ON CENTER(S)
		OD	OUTSIDE DIMENSION
℄	CENTERLINE	OPN'G	OPENING
CLG	CEILING	OPH	OPPOSITE HAND
CIRC	CIRCUIT	OPP	OPPOSITE
CLR	CLEAR		
C.O.	CLEANOUT	PNT	PAINT(ED)
COL	COLUMN	PL	PLATE
CONC	CONCRETE	PLAM	PLASTIC LAMINATE
CONST	CONSTRUCTION	PLYWD	PLYWOOD
CONT	CONTINUOUS (OR) CONTINUE	P.O.R.	PROFESSIONAL OF RECORD
C/T	CURRENT TRANSFORMER	PROJ	PROJECT
CTR	COUNTER	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
(D)	DEMO/DEMOLISH(ED)	PT	PRESSURE TREATED
DBL	DOUBLE		
DIA	DIAMETER	(R)	RELOCATE(D)
DIM	DIMENSION	RAD	RADIUS
DN	DOWN	RE	REFERENCE
DS	DOWNSPOUT	REFR	REFRIGERATOR
DTL	DETAIL	REM	REMOVE(D)(ABLE)
DWR	DRAWER	REQD	REQUIRED
DWG	DRAWING	RESLS	RESILIENT
		REV	REVISION(S), REVISED
(E)	EXISTING	RM	ROOM
EA	EACH	RO	ROUGH OPENING
ELEV	ELEVATION	RND	ROUND
EMER	EMERGENCY		
EQ	EQUAL	SCH	SCHEDULE
EQPT	EQUIPMENT	SECT	SECTION
EXP	EXPOSED	S.F.	SQUARE FOOTAGE
EXT	EXTERIOR	SHT	SHEET
		SHTHG	SHEATHING
F.P.	FIRE EXTINGUISHER	SIM	SIMILAR
FD	FLOOR DRAIN	SC	SOLID CORE
FIN	FINISH(ED)	SLD SUR	SOLID SURFACE
FL	FLOOR(ING)	SP	SPACE(S)
FLUOR	FLUORESCENT	SPEC	SPECIFICATION
F.R.T.	FIRE RETARDANT TREATED	SS	STAINLESS STEEL
FT (')	FEET, FOOT	STL	STEEL
FNDN	FOUNDATION	STO	STORAGE
FUR	FURRED(ING)	STR	STRUCTURAL(STRUCTURE)
F.V.	FIELD VERIFY	SUSP	SUSPENDED
GL	GLASS	TEL	TELEPHONE
GYP	GYPSUM	TEMP	TEMPERED
		T.O.	TOP OF
H.C.	HANDICAPPED	T/O	TOP OF
HDW	HARDWARE	TYP	TYPICAL
HDWD	HARDWOOD		
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HT/HGT	HEIGHT	U/S	UNDERSIDE
HVAC	HEATING/VENTILATION AIR CONDITIONING	V.I.F.	VERIFY IN FIELD
		VCT	VINYL COMPOSITION TILE
I.D.	INSIDE DIMENSION / DIAMETER	VERT	VERTICAL
I.L.O.	IN LIEU OF		
IN (")	INCH	W/	WITH
INSUL	INSULATION	W/C	WATER CLOSET
INT	INTERIOR	W/O	WITHOUT
		WD	WOOD
LAM	LAMINATE	WDB	WOOD BASE
LBS	POUNDS		

SYMBOLS

EXTERIOR ELEVATION REFERENCE — X (ELEVATION LETTER) / A# (SHEET NUMBER)

WINDOW SCHEDULE REFERENCE — W1 (WINDOW NUMBER; INDICATES 'WINDOW')

DETAIL REFERENCE — X (DETAIL LETTER/ NUMBER) / A# (SHEET NUMBER)

DOOR SCHEDULE REFERENCE — 100 (DOOR NUMBER)

WALL/BUILDING SECTION REFERENCE — X (SECTION LETTER) / A# (SHEET NUMBER)

CODED NOTE REFERENCE — # (CODED NOTE NUMBER IN LIST; SUPPLEMENTARY NOTE)

ENLARGEMENT PLAN/SECTION REFERENCE — # (DETAIL LETTER/ NUMBER) / # (SHEET NUMBER)

EQUIPMENT REFERENCE — EQUIPMENT NUMBER IN SCHEDULE; "F" = 'FUTURE' "R" = 'RELOCATED'

REVISION SYMBOL — # (REVISION NUMBER)

FINISH DESIGNATION — X.## (FINISH MATERIAL & SCHEDULE NUMBER; X APPLIED LOCATION OF FINISH)

ELEVATION HEIGHT REFERENCE — #' - #" / ITEM (HEIGHT; ITEM REFERENCED)

CEILING REFERENCE — X / # (CEILING MATERIAL; CEILING HEIGHT)

INTERIOR ELEVATION REFERENCE — #/A9 (ELEVATION LETTER & SHEET NUMBER; ELEVATION DIRECTION)

SPACE DESIGNATION — ROOM / # (SPACE NAME; SPACE NAME)

ISSUE DATES

ISSUED FOR CLIENT REVIEW: --/--/----

ISSUED FOR PERMITS: --/--/----

ISSUED FOR CONSTRUCTION: --/--/----

LAST DESIGN BULLETIN: --/--/----

SCHEDULE OF ALTERNATES

	ALTERNATE	DESCRIPTION
2	FLOOR	EPOXY FLOORS ILO TILE
3	ROOF	SINGLE-PLY MEMBRANE ROOF SYSTEM
4	IRRIGATION SYSTEM	REMOVE AND USE INDIGENOUS PLANTS AND GRASSES
5	PLUMBING FIXTURE	BATTERY OPERATED AUTOMATIC FAUCET
6	FOUNDATION	TURN DOWN SLAB w/ SHALLOW FROST PROTECTION
7	SIGNAGE FOUNDATION	G.C. TO PROVIDE ESTIMATE FOR MENU BOARDS, SPEAKER POST AND DETECTOR LOOP FOUNDATION AND CONDUITS. SEE RESPONSIBILITY SCHEDULE.
8	PAVING	ASPHALT ILO CONCRETE

CODE INFORMATION

STORE TYPE: SLIDERS DRIVE-IN

LOCATION: Lee's Summit, MO

BUILDING LEVEL: 1 OF 1

APPLICABLE CODES:

BUILDING:	2021 INTERNATIONAL BUILDING CODE
PLUMBING:	2021 INTERNATIONAL PLUMBING CODE
FUEL GAS CODE:	2021 INTERNATIONAL FUEL GAS CODE
MECHANICAL:	2021 INTERNATIONAL MECHANICAL CODE
ELECTRIC:	2020 NATIONAL ELECTRIC CODE (NFPA)
ACCESSIBILITY:	2010 ADAAG, 2021 IBC CHAPTER 11, & 2017 ICC/ANSI A117.1
ENERGY:	2021 INTERNATIONAL ENERGY CODE
FIRE:	2018 INTERNATIONAL FIRE CODE

ZONING CLASSIFICATION: C1 - COMMERCIAL

OCCUPANCY CLASSIFICATION: B (BUSINESS) PER A (ASSEMBLY) LESS THAN 50 OCCUPANTS

CONSTRUCTION TYPE: VB COMBUSTIBLE MATERIALS, UNPROTECTED

AREA / HEIGHT LIMITATIONS: ALLOWED: ONE STORY, 40' HIGH, MAXIMUM 6,000 SQ. FT.
PROVIDED: ONE STORY, 16'-0" HIGH, 800 SQ. FT

SCOPE OF WORK STATEMENT: NEW BUILDING

BUILDING SUMMARY:

BASE BUILDING:	800 SQ. FT.
:	
TOTAL AREA:	800 SQ. FT.

OCCUPANCY CALCULATIONS:

FLOOR	USE	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	NUMBER OF OCCUPANTS	NUMBER OF SEATS
1 OF 1	KITCHEN USE	800 SQ.FT.	1:100	8	-
1 OF 1			-	0	-
1 OF 1			-	0	-
1 OF 1	OUTDOOR SETTING	T.B.D.	-	0 **	-
			TOTAL NUMBER OF OCCUPANTS:	8	-

* UNOCCUPIED AREAS INCLUDE: FREEZER/COOLER, WALLS, CLOSET, AND VESTIBULE.

** OWNER INDICATES MAY BE AS MANY AS 10 EMPLOYEES DURING PEAK TIMES.

TOTAL EXITS REQUIRED:	1	TOTAL EXITS PROVIDED	2
		EGRESS WIDTH PROVIDED PER EXIT:	34" CLEAR

THE LOSS OF ONE REQUIRED MEANS OF EGRESS SHALL NOT REDUCE THE EGRESS CAPACITY TO LESS THAN 50% OF REQUIRED

FIRE RESISTIVE REQUIREMENTS: EXTERIOR BEARING WALL .....(0 HOUR)
ROOF CONSTRUCTION .....(0 HOUR)
CEILING .....(0 HOUR)

FIRE SPRINKLERS: NO — FIRE ALARM: NO FIRE ALARM SYSTEM REQUIRED

MAX. TRAVEL DISTANCE: 200' (250' WITH SPRINKLER SYSTEM)

RESTROOM REQUIREMENTS: WATER CLOSETS.....1 REQUIRED UNISEX
LAVATORIES.....1 REQUIRED UNISEX
URINALS: .....NOT REQUIRED
DRINKING FOUNTAINS.....NOT REQUIRED
PUBLIC ACCESS.....PROVIDED
UNISEX IS PERMITTED...YES

SPECIAL INSPECTIONS: NONE

KITCHEN HOODS: TYPE 1

HOOD SUPPRESSION: YES

FUEL GAS TYPE: NATURAL GAS

SITE NOTES FOR G.C.

1. THE SITE MUST BE GRADED AND COMPACTED ALLOWING FOR FULL ACCESS AND FOR THE UNITS AND CRANES TO BE STAGED.
2. THE AREA AROUND THE FOUNDATION, PRIOR TO THE INSTALLATION OF THE MODULAR UNIT, MUST BE CLEAR OF THE FOLLOWING:
   - SIDEWALKS
   - CURBS
   - OBSTRUCTIONS
3. THE SITE MUST BE LEVEL AND STONED SO THE TRUCKS AND CRANES DO NOT SINK. TYPICAL TRUCKS AND CRANES USED ARE OVERALL 100' LOWBOY TRAILER, STEP DECK TRAILER, AND APPROXIMATELY 150T CRANE.
4. IF THE SITE IS NOT ACCESSIBLE TO THE TRUCKS AND/OR CRANES, AND/OR THE SITE IS NOT GRADED, COMPACTED, LEVELED, AND STONED, CAUSING DELAYS FOR THE TRUCKS OR CRANES OR CAUSEING THEM TO GET STUCK, THE ADDITIONAL EXPENSE WILL BE CHARGED BACK TO THE OWNER.

SITE INSTALLED ITEMS

SITE INSTALLED ITEMS

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO THE PLUMBING SYSTEM BELOW THE FLOOR. FREEZE PROTECTION OF ALL WATER, SOIL AND WASTE PIPES LOCATED OUTSIDE OF THE BUILDING THERMAL ENVELOPE.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE ELECTRICAL SERVICE DISCONNECTING MEANS INCLUDING CT CABINET AND FEEDERS TO ALL PANELS.
7. ALL METAL FRAMING MEMBERS SHALL BE BONDED TO THE BUILDINGS ELECTRICAL SYSTEM. THE BUILDING OWNER IS RESPONSIBLE FOR RETAINING APPROPRIATELY QUALIFIED AND LICENSED ENTITIES TO DESIGN AND INSTALL REQUIRED BONDING.
8. DUAL ELEMENT EXTERIOR EXIT DISCHARGE LIGHTING WHEN NOT SHOWN ON PLANS.
9. HURRICANE SHUTTERS – EXTERIOR GLAZING AND DOOR PROTECTION.
10. RESTAURANT EQUIPMENT
11. ALL SIGNS, INCLUDING TACTILE SIGNS, UNLESS OTHERWISE SPECIFIED.
12. CONNECTIONS OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATING LINE(S) – (MULTI-UNITS ONLY).
13. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
14. CANOPIES & ROOF CONTAINER
15. ALL ROOF TOP HVAC UNITS AND FANS AND COOLER/FREEZER ROOF TOP EQUIPMENT
16. ROOF PARAPET WALLS.
17. COOLER AND FREEZER.

SPECIAL CONDITIONS/ LIMITATIONS

1. ANY AIR GAPS BETWEEN MODULES AT FLOOR AND CEILING LINES AND ANY OTHERS PENETRATIONS THROUGH THE BUILDING ENVELOPE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, WRAPPED OR OTHERWISE SEALED TO LIMIT UNCONTROLLED AIR MOVEMENT.
2. RODENT PROOFING IN ACCORDANCE WITH IBC APPENDIX F SHALL BE INSTALLED. RODENT PROOFING IS DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
3. ONLY FACTORY BUILT PORTIONS OF THE PLUMBING, ELECTRICAL AND GAS SYSTEMS HAVE BEEN TESTED BY THE BUILDING MANUFACTURER. ADDITIONAL TESTING IS REQUIRED FOR COMPLETED SYSTEMS ON SITE.
4. HVAC SYSTEM BALANCING SHALL BE ON SITE

STRUCTURAL NOTES

NOTE: WIND LOAD CODE DATA APPLIES TO COMPONENTS AND CLADDING FOR NEW ITEMS ONLY.

1. DESIGN CRITERIA
   A. WIND LOADING
      1. WIND SPEED.....115 MPH ULTIMATE, 89 MPH ASD
      2. RISK CATEGORY II, WIND IMPORTANCE FACTOR.....1.0
      3. OCCUPANCY CATEGORY.....II
      4. WIND EXPOSURE CATEGORY.....C
      5. INTERNAL PRESSURE COEFFICIENT.....+0.18, -0.18
      6. COMPONENTS AND CLADDING (DESIGN PRESSURES INDICATED ARE EDGE ZONE (BUILDING CORNER) PRESSURES BASED ON A MINIMAL EFFECTIVE AREA AND MAY BE REDUCED ACCORDINGLY FOR INTERIOR ZONES AND LARGER EFFECTIVE AREAS):
         a. ROOF ..... Pasd =+8.1 ~57.2 PSF
         b. WALLS..... Pasd =+20.0, -26.8 PSF
   B. ROOF LOADING
      1. DESIGN ROOF LIVE LOAD (MINIMUM).....20 PSF.
      2. ROOF SNOW LOAD:
         a. GROUND SNOW LOAD.....20 PSF
         b. FLAT-ROOF SNOW LOAD.....20 PSF
         c. SNOW EXPOSURE FACTOR.....1.0
         d. SNOW LOAD IMPORTANCE FACTOR.....1.0
         e. THERMAL FACTOR.....1.0
         f. THE EFFECTS OF DRIFTING SNOW HAVE BEEN INCLUDED IN THE DESIGN.
         g. THE ROOF STRUCTURE HAS BEEN DESIGNED FOR THE ROOF LOADINGS INDICATED ABOVE SUCH THAT AN ADEQUATE ROOF SLOPE AND DRAINAGE SYSTEMS ARE REQUIRED TO PREVENT PONDING LOADS WHICH MAY EXCEED THE DESIGN ROOF LOADS.
   C. SEISMIC
      1. RISK CATEGORY.....II
      2. SEISMIC IMPORTANCE FACTOR.....1.0
      3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
         a. SHORT PERIODS.....0.441
         b. 1 SECOND PERIOD.....0.158
      4. SITE CLASS.....D(ASSUMED)
      5. DESIGN SPECTRAL ACCELERATION:
         a. SHORT PERIODS.....0.425
         b. 1 SECOND PERIOD.....0.240
   6. SEISMIC DESIGN CATEGORY.....D
      7. BASIC SEISMIC-FORCE-RESISTING-SYSTEM_LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANEL RATED FOR SHEAR RESISTANCE
      8. DESIGN BASED SHEAR.....3.4 KIPS
      9. SEISMIC RESPONSE COEFFICIENT, CS.....0.13
      10. RESPONSE MODIFICATION FACTOR, R.....7
      11. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE.

SHEET INDEX

NO	NAME
G0.1	COVER SHEET
A1.1	FLOOR PLAN
A2.1	REFLECTED CEILING PLANS
A3.1	ROOF PLAN & ROOF DETAILS
A4.1	FINISH PLAN
A5.1	EXTERIOR ELEVATIONS
A6.1	LIFE SAFETY
A9.1	EQUIPMENT PLAN
A9.2	EQUIPMENT UTILITY SCHEDULE
A9.3	EQUIPMENT ELEVATIONS
A9.4	RESTROOM ELEVATIONS
A9.5	HANGING SHELVES
A11.1	DOOR & WINDOW SCHEDULE
M1.1	MECHANICAL LEGEND
M1.2	MECHANICAL SPECIFICATIONS
M2.1	MECHANICAL PLAN
M3.1	MECHANICAL SCHEDULE AND DETAILS
C1-4	CAPTIVE-AIRE
FW	FIREWALL
E1.1	LIGHTING PLAN
E2.1	POWER PLAN & ROOF POWER PLAN
E3.1	PANEL SCHEDULES & ELECT. RISER DIAGRAM
E4.1	ELECTRICAL ELEVATIONS
P1.1	PLUMBING PLAN
P2.1	PLUMBING SCHEDULES & DETAILS
P2.1B	SPECIAL CONDITIONS
P2.1C	PLUMBING SPOTTING
P3.1	PLUMBING PLAN - DOMESTIC WATER/GAS
P4.1	PLUMBING DETAILS
P5.1	FLOOR PENETRATIONS
P6.1	PLUMBING ELEVATIONS
S2.1	ROOF FRAMING PLAN
S2.2	FLOOR FRAMING PLAN
S2.3	FRAMING DETAILS

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

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6/23/2022

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

smalls SLIDERS

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI — WALTER E. WOOD — NUMBER PE-2010020073 — PROFESSIONAL ENGINEER
VALID UNTIL 12-03-2025

THIRD PARTY ENGINEER: HWC & ASC, INC.
1627 SOUTH MYRTLE AVE.
CLEARWATER, FL 34616
(717) 584-8151

APPROVED — 12-3-2025 — HWC — WEIMER-CARTER & ASSOCIATES, INC.

HWC# 2581-0265

SHEET NAME

COVER SHEET

SHEET NUMBER

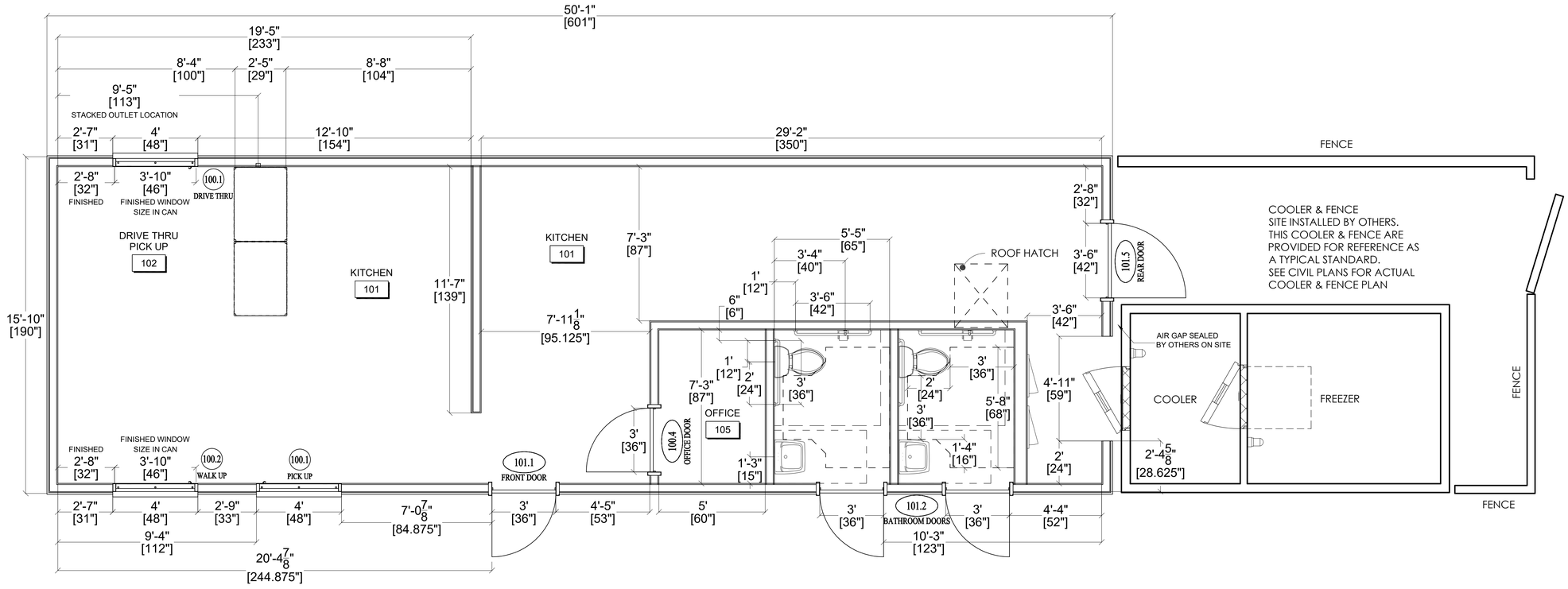
G.01

RELEASE FOR CONSTRUCTION
REVIEWED FOR CODE COMPLIANCE
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

REV.	DATE	DESCRIPTION
R1	1/9/24	BATHROOM WIDTH GREW 2"

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION



1 FLOOR PLAN
3/8" = 1'-0"

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

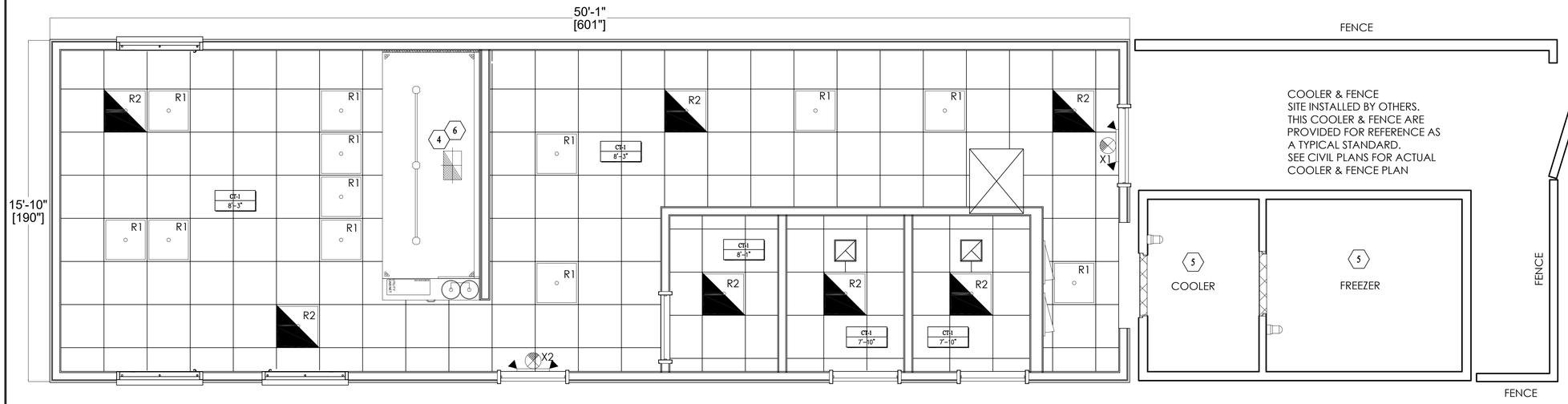
ENGINEER STAMP
STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
02-23-2024
HWC
HORNER-WEBER-CARTER & ASSOCIATES

SHEET NAME
FLOOR PLAN

SHEET NUMBER
A1.1



1 REFLECTED CEILING PLAN
3/8" = 1'-0"

CEILING PLAN GENERAL NOTES

1. SEE SHEET E1.1 FOR LIGHTING PLAN DETAILS AND CIRCUITRY.
2. GENERAL CONTRACTOR TO VERIFY CLOCKING DETAIL WITH JOIST MANUFACTURER PRIOR TO HANGING ITEMS FROM ROOF TRUSS SYSTEM.
3. BULKHEAD DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE - NOT FRAMING TO FRAMING.
4. REFER TO LIGHTING PLAN FOR LOCATIONS OF EXTERIOR LIGHT FIXTURES.
5. LAY IN CEILING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. IF NOT NOTED CEILING TO BE CENTERED IN AREA

CEILING PLAN CODED NOTES (#)

1. N/A
2. N/A
3. N/A
4. EXTEND NFPA WELDED KITCHEN EXHAUST DUCT WITH FIRE BLANKET UP FROM HOOD TO FAN. (SEE MECHANICAL SHEETS)
5. LIGHT NOT SHOWN BY COOLER / FREEZER MANUFACTURER. ALL CONNECTIONS BY ELECTRICAL CONTRACTOR. E.C. SEAL CONDUITS AT BOTH ENDS AND SEAL ALL PENETRATIONS THRU BOX.
6. TYPE 1 KITCHEN EXHAUST HOOD
7. N/A
8. N/A
9. N/A

CEILING PLAN LEGEND

2' x 2' LIGHT FIXTURE

2' x 2' LIGHT FIXTURE, WITH POWER PACK BACK UP

BATHROOM EXHAUST FAN

CEILING MOUNTED EMERGENCY EXIT SIGN

CT-1, 2' X 2' FIRE RATED VINYL COVERED GYPSUM (ACT)
SACT SUSPENDED ACOUSTIC CEILING TILE

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

REV.	DATE	DESCRIPTION
R1	10/26/23	MOVED ROOF HATCH
R2	1/9/24	BATHROOM WIDTH GREW 2"

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017027073
PROFESSIONAL ENGINEER
VALID
02-23-2 024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

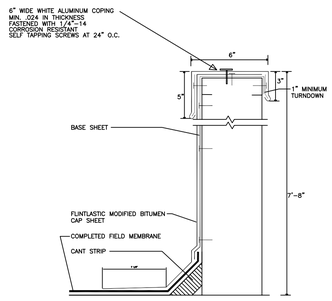
APPROVED
2-23-2024
HWC
HOUSING WERNER CARTER & ASSOCIATES

SHEET NAME

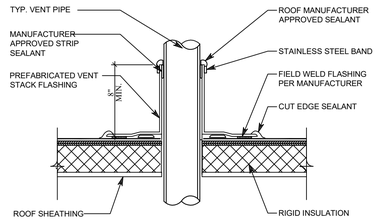
REFLECTIVE CEILING PLAN

SHEET NUMBER

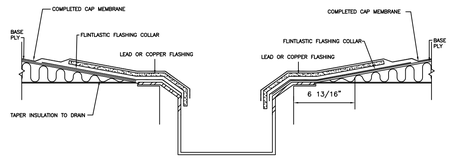
A2.1



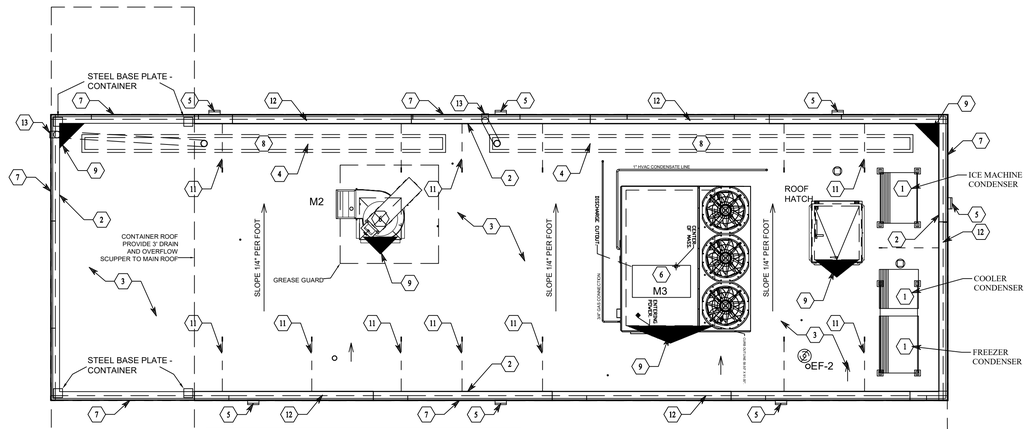
PARAPET DETAIL C



VENT PENETRATION DETAIL B



STAINLESS GUTTER DETAIL A



CONTAINER ON ROOF, HOOD EXHAUST FAN (EF-1), AND DOAS RTU (MUA-1) SUPPLIED BY VALIANT. REFRIGERATION CONDENSERS AND DISCONNECTS FOR THE REFRIGERATION CONDENSERS ARE NOT SUPPLIED BY VALIANT. PATIO CANOPY NOT BY VALIANT. SITE INSTALLED BY OTHERS.

U.L. REPORT - TGFU.R11656 (CLASS A - FULLY ADHERED) (SYSTEM 43)
ICC-ES EVALUATION REPORT - ESR-1388 (TABLE 1C) (SYSTEM C-8) (TABLE 2C) (SYSTEM C-4)
FLORIDA PRODUCT APPROVAL - FL2533.1 (TABLE 10C) (SYSTEM SC-75)
MIAMI-DADE N.O.A. - 24-0906.04

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

ICC-ES ESR-1388 TABLE 1C - EXTERNAL ROOF FIRE CLASSIFICATION

SYSTEM NO.	CLASS	MAX. ROOF SLOPE	VAPOR BARRIER OR ANCHOR SHEET	INSULATION / THICKNESS	ROOF COVER			
					BASE SHEET	PLY SHEET	MEMBRANE	SURFACING
C-8	A	1/2:12	NONE	POLYISOCYANURATE, PERLITE, GLASS FIBER, OR WOOD FIBER / ANY THICKNESS. DENSDECK / MIN. 1/4-INCH	FLINTLASTIC SA NAILBASE (MA) OR FLINTLASTIC SA PLYBASE (SA TO PRIMED DENSDECK OR DENSDECK DURAGUARD ONLY)	FLINTLASTIC SA PLYBASE (SA)	FLINTLASTIC SA CAP FR, FLINTLASTIC SA CAP FR COOLSTAR (SA)	NONE

ICC-ES ESR-1388 TABLE 2C - WIND UPLIFT RESISTANCE

SYSTEM NO.	SUBSTRATE	INSULATION		COVERBOARD		ROOF COVER			ALLOWABLE UPLIFT CAPACITY (PSF)
		TYPE	ATTACH	TYPE	ATTACHMENT METHOD	BASE	PLY	CAP	
C-4	MIN. 22 GA. STEEL OR MIN. 2,500 PSI CONCRETE	MIN. 1.5-INCH, MIN. 2.0 PCF POLYISOCYANURATE	LOOSE LAID	(OPTIONAL) FM APPROVED MIN. 3/4-INCH PERLITE, MIN. 1/2-INCH WOOD FIBERBOARD, OR MIN. 1/4-INCH DENSDECK	LOOSE LAID	FLINTLASTIC SA NAILBASE ATTACHED 12-INCH O.C. IN A 4-INCH LAP AND 12-INCH O.C. IN TWO, EQUALLY SPACED, STAGGERED CENTER ROWS	(OPTIONAL) FLINTLASTIC SA MID PLY, SELF-ADHERED	SELF-ADHERED	60

ROOF PLAN GENERAL NOTES

A. N/A

B. THE BUILDING MANUFACTURER SHALL VERIFY EXISTING CONDITIONS, LOAD BEARING WALLS, AND STRUCTURAL ITEMS PRIOR TO STARTING WORK. NOTIFY AND COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.

C. ROOF WORK TO BE INSTALLED WITH APPROVED ROOF MATERIAL SPECIFICATIONS. PROVIDE AND INSTALL ROOF INCLUDING BUT NOT LIMITED TO, INSULATION BOARD, EDGE FLASHING(S), COPINGS, SEALED TERMINATIONS AS REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. AT PENETRATIONS/ ATTACHMENTS IN THE ROOF, FLASH/ PROVIDE WEATHER TIGHT SEAL PER ROOFING SYSTEM MANUFACTURER'S WARRANTY REQUIREMENTS. METHOD AND HARDWARE FOR ATTACHMENTS TO STRUCTURE TO BE REVIEWED AND VERIFIED BY A.O.R. UPON COMPLETION. THE ROOFING CONTRACTOR SHALL ENSURE THE ENTIRE ROOF SHALL BE WEATHER AND WATER TIGHT WITH POSITIVE DRAINAGE TO THE ROOF DRAINS AND NO STANDING WATER/ PONDING.

D. BUILDING MANUFACTURER SHALL INSTALL RIGID INSULATION TO MEMBRANE INSTALLATION IN ACCORDANCE WITH THE ROOFING MATERIAL LISTING. SYSTEM TO BE COMPLETE WITH ALL ACCEPTABLE PRODUCTS AND INSTALLATION REQUIRED TO PROVIDE A FULL MANUFACTURER'S WARRANTY.

E. ROOFING DESIGN:
E.• CERTAINTEED - SELF-ADHERED ROOF SYSTEM

ROOF PLAN CODED NOTES

1. FREEZER/ COOLER AND ICE MAKER CONDENSER UNITS BY OWNER, G.C. TO CONNECT ELECTRICAL. PIPING CONTRACTOR TO BRAZE ANY ROOF PENETRATIONS FOR REMOTE EQUIPMENT. G.C. TO VERIFY AND BE RESPONSIBLE FOR ANY AND ALL MECHANICAL AND ELECTRICAL CONNECTIONS.
2. EXTEND ROOF MEMBRANE UP ROOF EDGE AND OVER TOP OF FRAMING (TYPICAL). SECURE PREFABRICATED DRIP EDGE THROUGH MEMBRANE AS SPECIFIED BY MANUFACTURER. SEE DETAIL C.
3. SELF-ADHERED ROOF SYSTEM. SEE SPECIFICATIONS.
4. ROOF DRAIN TROUGH - STAINLESS STEEL 4" X 8".
5. EXTERIOR LIGHTING FIXTURES. (REFER TO ELECTRICAL)
6. HVAC UNITS AND EXHAUST FANS. (REFER TO MECHANICAL)
7. METAL ROOF EDGE: DRIP EDGE.
8. TAPER INSULATION OVER RIGID INSULATION AT ROOF DRAIN (TYPICAL). FIELD VERIFY ROOF DRAIN LOCATIONS PRIOR TO INSTALLATION, AND INSTALL PER ROOF MANUFACTURER'S SPECIFICATIONS. G.C. TO COORDINATE ACTUAL EXTENTS OF TAPERED INSULATION MATERIALS WITH ROOF INSTALLER AND VERIFY INSTALLED COUNTER-SLOPE OF 1/4" PER FOOT TO DIRECT STORM WATER TOWARD ROOF DRAINS AS INDICATED ON PLAN.
9. ROOF CRICKETS. (TYPICAL).
10.
11. DASHED LINE INDICATES EXTENTS OF PARAPET BRACING, 1:1 SLOPE. (REFER TO STRUCTURAL)
12. ROOFTOP PARAPET. (REFER TO STRUCTURAL)
13. 3" DIA. MIN. ROOF DRAIN FROM ROOF DRAIN TROUGH.

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED OR MARKED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
REVIEWED - NO EXCEPTIONS TAKEN
02/12/2026 11:13:18

LAST DESIGN BULLETIN		
NUM.	DATE	DESCRIPTION

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2010022074
PROFESSIONAL ENGINEER
VALID
Walter E. Wood
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED - INC. - MISSOURI - WEBER CARTER & ASSOCIATES
2-23-2024
HWC

SHEET NAME
ROOF PLAN DETAIL

SHEET NUMBER
A3.1

ROOM FINISH SCHEDULE

ROOM	FLOORS	WALLS		BASE	CEILING/SOFFIT		
NAME	FT-1	WF-1	WF-2	WB-1	CT-1	PT-1	HEIGHT
KITCHEN	•	•	•	•	•		8'-3"
DRIVE THRU	•	•		•	•		8'-3"
UNISEX RESTROOM	•	•		•	•		7'-10"
UTILITY/OFFICE	•	•		•	•		8'-1"

CT-1 C CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.

WF-1 W CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

WB-1 B FIRE TEST NFPA TYPE 1 RATED

FT-1 F FIRE TEST NFPA TYPE 1 RATED

INTERIOR WALL AND CEILING FINISH MATERIAL; FLAME SPREAD AND SMOKE-DEVELOPED INDEXES

CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.
CLASS B: = FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.
CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIAL; -MINIMUM CRITICAL RADIANT FLUX

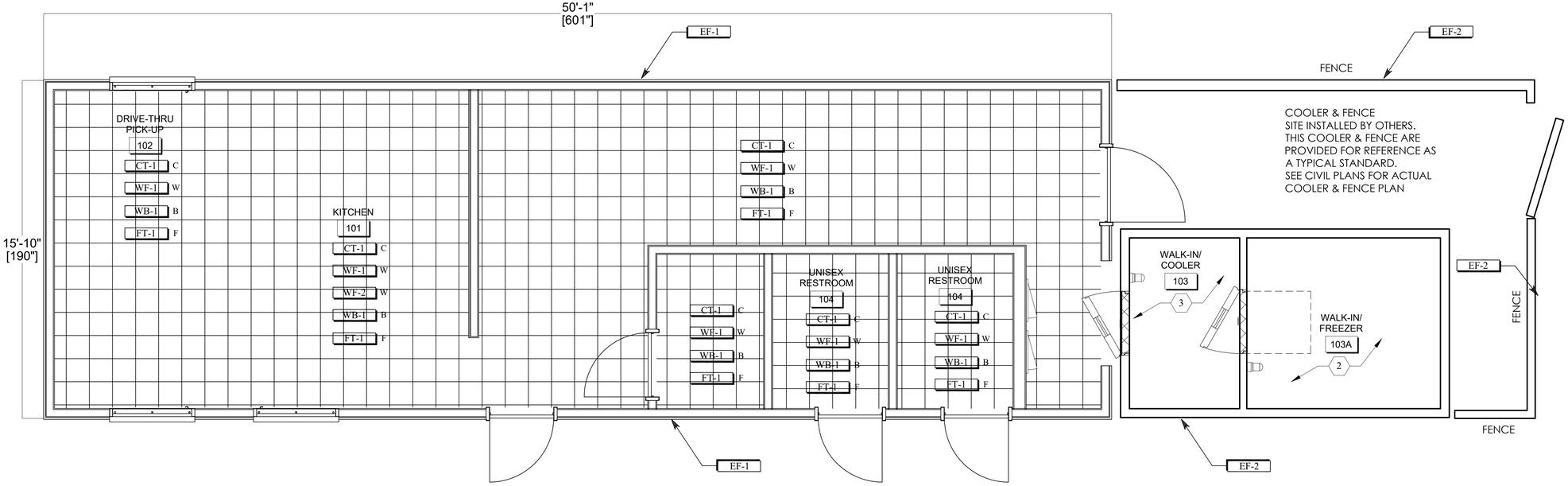
NOT LESS THAN CLASS II IN ACCORDANCE WITH NFPA 253 CLASS II, 0.22 WATTS/CM² OR GREATER

FINISH PLAN CODED NOTES

1. NOT USED
2. FREEZER TO HAVE INSULATED METAL FLOOR BY UNIT MANUFACTURER.
3. COOLER TO RECEIVE TILE FLOOR & BASE BY G.C. AFTER THE UNIT HAS BEEN INSTALLED.
4. NOT USED
5. NOT USED
6. NOT USED

FINISH SCHEDULE: INTERIOR MATERIALS

CT-1	CEILING TILE	USG SHEETROCK: GYPSUM CEILING PANELS - VINYL COATED 24" X 24" SQUARE EDGE LAY IN - WHITE
EF-1	EXTERIOR FINISH	SEE EXTERIOR FINISH SCHEDULE ON ELEVATION SHEET A5.1
EF-2	EXTERIOR FENCE FINISH	MATCH EF-1
FT-1	FLOOR FINISH	PROTECT-ALL: FLOORING - DARK GRAY
PT-1	PAINT	SHERWIN WILLIAMS COLLECTION: HARMONY #SW7006 EXTRA WHITE, EGGSHELL
WB-1	WALL BASE	PROTECT-ALL: COVE BASE - DARK GRAY
WF-1	WALL FINISH	FRP: LP-S9 - SMOOTH FINISH, WHITE
WF-2	WALL FINISH	14GA. STAINLESS STEEL, FULL HEIGHT OF WALL TO MIN. 18" BEYOND HOOD



1 FINISH PLAN
3/8" = 1'-0"

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

REV.	DATE	DESCRIPTION
#2	1/9/24	WIDTH GREW 2"

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

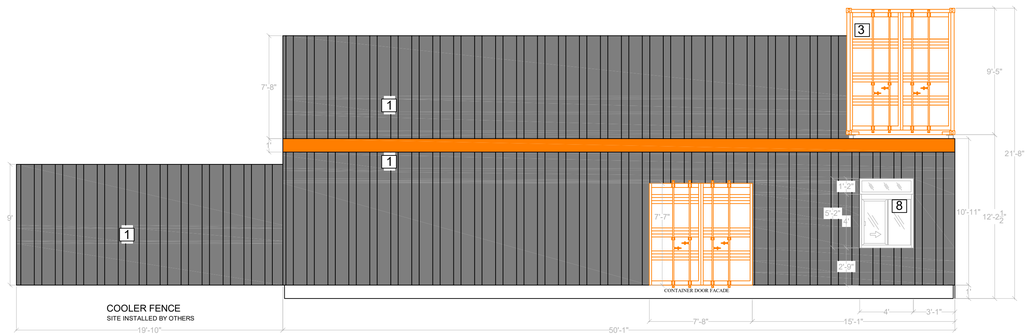
STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

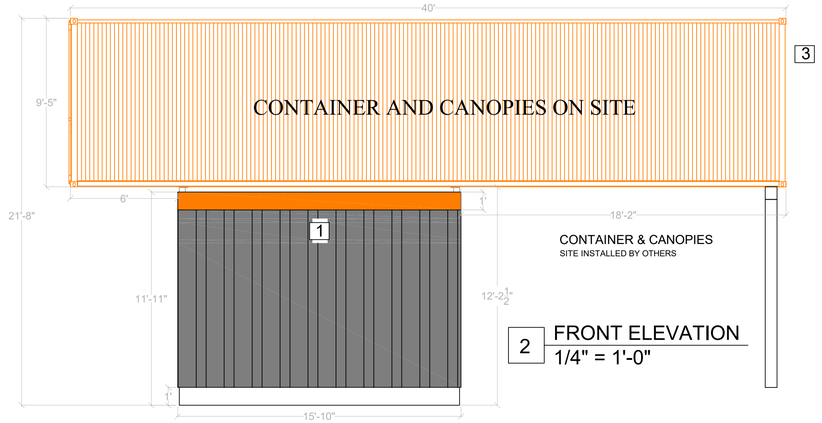
APPROVED
2-23-2024
HWC
WITMER-CARTER & ASSOCIATES, INC.

SHEET NAME
FINISH PLAN

SHEET NUMBER
A4.1



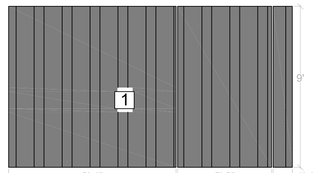
1 DRIVE THRU ELEVATION
3/16" = 1'-0"



2 FRONT ELEVATION
1/4" = 1'-0"

3 PATIO SIDE ELEVATION
3/16" = 1'-0"

4 REAR ELEVATION
1/4" = 1'-0"



HOME DEPOT PAINT CODE NUMBER
3866898719

Available Colors: Orange

SHERWIN WILLIAMS PAINT CODE NUMBER
3866779316

Available Colors: Midnight Bronze
Drizzling Mist

Colors/Material

	Material	Color	Description
1	Metal Siding	Bronze	Vertical MASTERLINE 16, 24 GA. OR EQUAL
2	Fiber Cement	Bronze	Alternate Material to the Metal Siding = 1 x 4 Painted Hardie plank over Hardie board
3	Steel	Slider's Colors Orange/White	40 Ft shipping Container
5	Steel Door	Bronze	(1) 36"/7' W/ LAMINATED SAFETY GLASS WINDOW
6	Rear Service Steel Door	Bronze	(1) 42"/7' W/ LAMINATED SAFETY GLASS WINDOW
7	Bath Room Steel Door	Bronze	(2) 36"/6'8"
8	Aluminum Order Window	Bronze	QuikServ WINDOWS WITH TRANSOM

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:18

REV.	DATE	DESCRIPTION
1	7/9/24	WIDTH GREW 2"

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

VALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022071
PROFESSIONAL ENGINEER
VALID
02-23-2 024

Third Party: HWC & Assc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

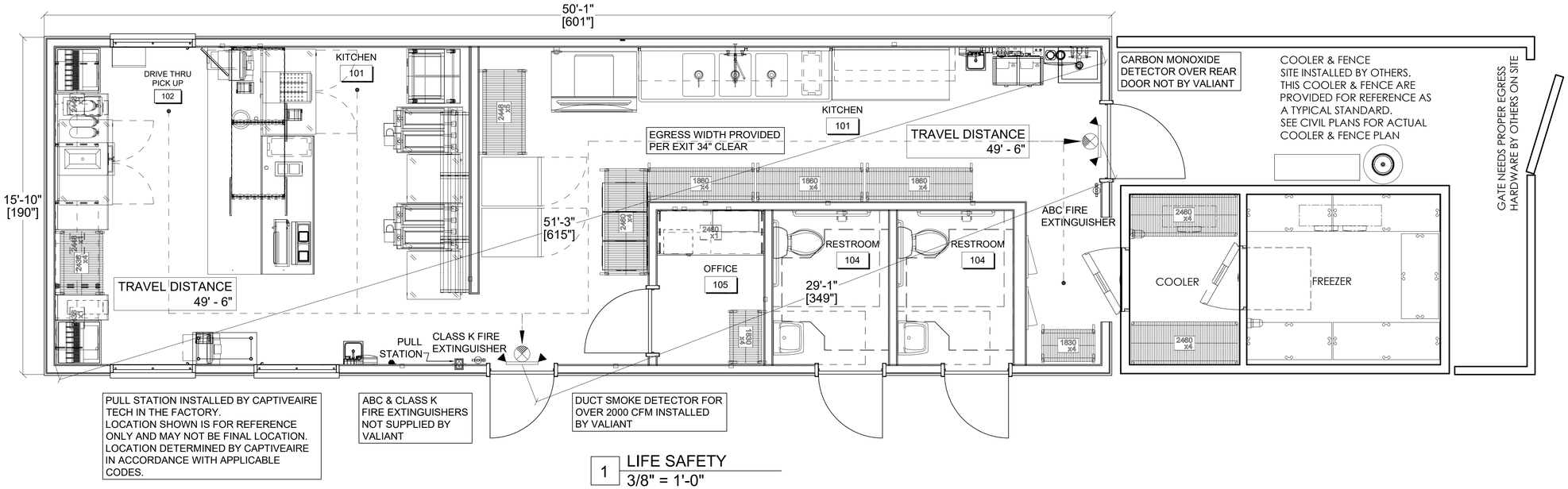
APPROVED
2-23-2024
HWC
HEIBERGER, WEBNER, CARTER & ASSOCIATES

SHEET NAME
ELEVATIONS

SHEET NUMBER
A5.1

GENERAL NOTES

1. ALL INTERIOR NON-STRUCTURAL PARTITIONS SHALL BE 3 ⅝" 20G METAL STUDS @ 16" O.C. FROM FLOOR TO 6" ABOVE FINISHED CEILING, U.N.O. DIAGONALLY BRACE TOP OF WALL TO ROOF STRUCTURE AS REQUIRED TO SUPPORT ADDITIONAL LOADS.
2. INTERIOR SOFFITS (SHOWN DASHED) ARE DIMENSIONED ON REFLECTED CEILING PLAN.
3. SEE SITE PLAN FOR LOCATIONS & EXTENTS OF SIDEWALKS, ETC.
4. ALL EXTERIOR WALLS SHALL BE FRAMED WITH 3 5/8" or (6"as noted on plan) METAL STUDS @ 16" O.C. SEE STRUCTURAL DRAWINGS & SPECIFICATIONS FOR LAYOUT DIMENSIONS, DETAILS, MATERIALS INFORMATION, & SPECIFIC STRUCTURAL DESIGN REQUIREMENTS.
5. PROVIDE SOLID WOOD BLOCKING BEHIND ALL WALL MOUNTED FIXTURES AND ACCESSORIES.
6. EXTERIOR DIMENSIONS ARE FROM FACE OF SHEATHING U.N.O INTERIOR DIMENSIONS ARE TO FACE OF SHEATHING U.N.O
7. COORDINATE CURB CUTS AT DOOR WITH STOREFRONT MANUFACTURER PRODUCT DETAILS AND SHOP DRAWINGS.
8. EXTERIOR WALLS SHALL BE INSULATED WITH CLOSED CELL SPRAY FOAM INSULATION AND HAVE A ½" PLYWOOD THERMAL BARRIER ON INTERIOR SIDE OF WALL
9. EXTERIOR FINISHES ARE NOTED ON EXTERIOR ELEVATIONS.
10. SEE FINISH PLAN AND INTERIOR ELEVATIONS FOR EXTENT OR INTERIOR FINISHES.
11. INSTALL TYVEK COMMERCIAL WRAP WEATHER BARRIER OVER SHEATHING BEHIND METAL PANELS. PROVIDE FLUID-APPLIED WEATHER BARRIER TO SHEATHING AT E.I.F.S LOCATIONS. PROVIDE TILE MANUFACTURER APPROVED WEATHER BARRIER BEHIND NEW CERAMIC TILE. APPROVE ALTERNATES INSTALL STO FLUID APPLIED AIR & MOISTURE BARRIER BEHIND ALL EXTERIOR FINISHES.
12. HOLD DOWN CLIPS SHALL BE PROVIDED FOR CEILING TILES IN THE VESTIBULES.
13. SEE INTERIOR FINISH SPECIFICATIONS FOR CEILING TILE.
14. DO NOT SCREW THE CEILING GRID TO THE STAINLESS STEAL HOODS. USE DOUBLE-FACED TAPE.
15. REFER TO ELECTRICAL AND/OR HVAC DRAWINGS FOR ADDITIONAL INFORMATION. REGARDING FIXTURES, DEVICES. AND EQUIPMENT SHOWN ON THIS PLAN.
16. TYPICAL RECESSED FIXTURES TO BE CENTERED IN CEILING TILE, U.N.O
17. CENTER CEILING GRID WITHIN ROOM ARE UNLESS NOTED/ DIMENSIONED OTHERWISE.
18. VOIDED
19. SEE FINAL APPROVED SECURITY PLAN FOR LOCATIONS OF CEILING MOUNTED CAMERAS AND MONITORS.



1 LIFE SAFETY
3/8" = 1'-0"

COOLER & FENCE PLAN

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED OR PENDING REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:19

REV.	DATE	DESCRIPTION
A2	1.11.24	WIDTH GREW 2"

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER
PE-2013022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

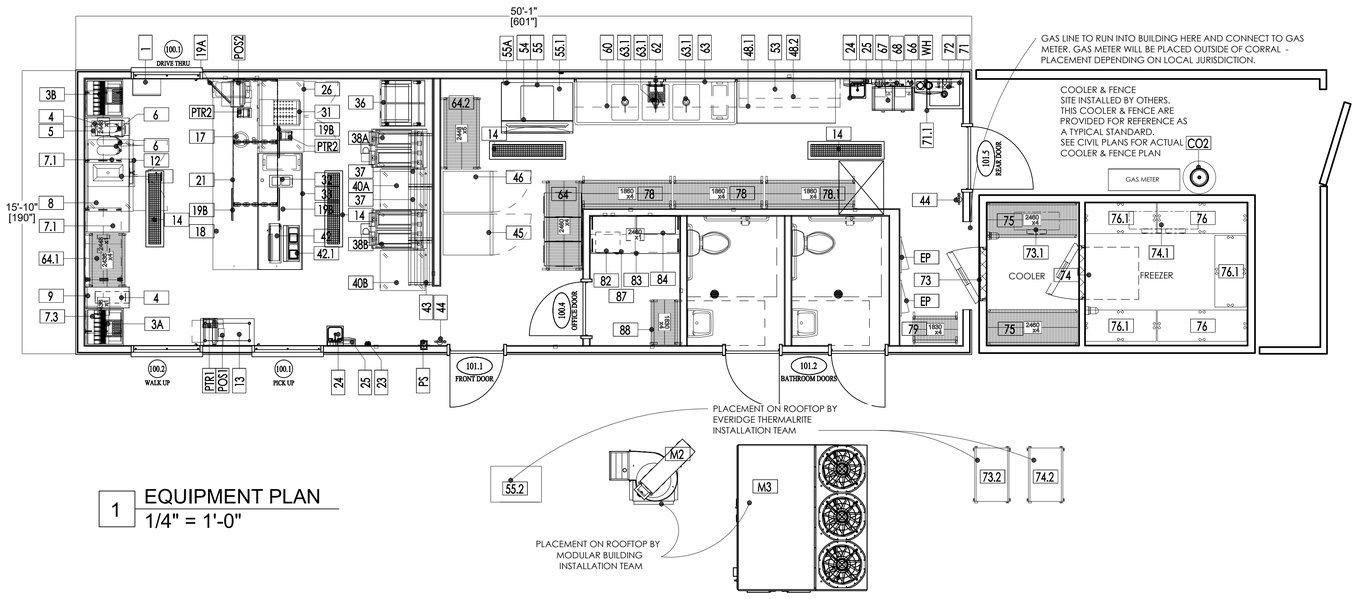
Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
REHDER-CARTER & ASSOCIATES, INC.

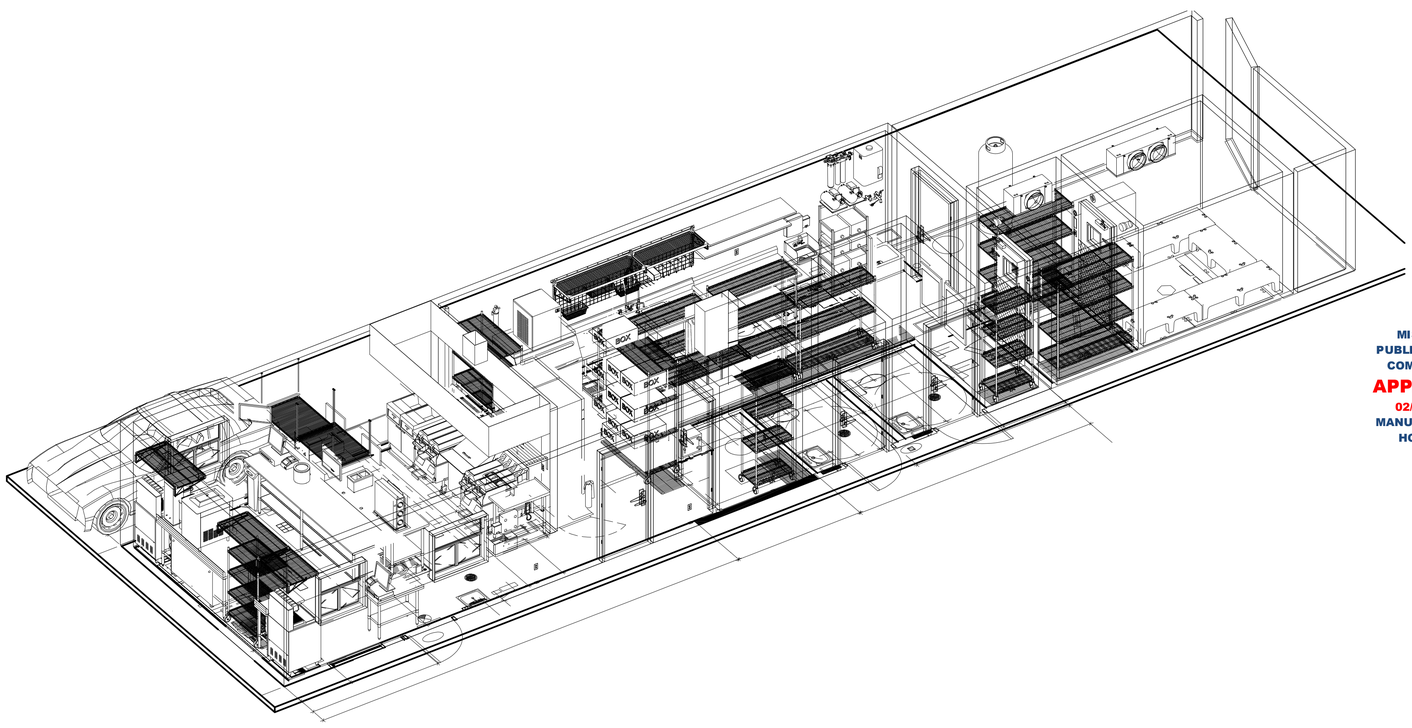
SHEET NAME
LIFE SAFETY

SHEET NUMBER
A6.1

Equipment Schedule					
Item Number	Qty	Description	Manufacturer	Model	Furnished By
1	1	Shelving, Wall Mounted	JLS	Custom	DON
2	1	Spare Number	--	--	
3A	1	Soda Dispenser - Patio	By Vendor	By Vendor	VENDOR
3B	1	Soda Dispenser - Drive Thru	By Vendor	By Vendor	VENDOR
4	2	Cup Dispenser	San Jamar	C2903BK	DON
5	1	Tea Brewer	By Owner	TBD	VENDOR
6	3	Tea Dispenser	By Owner	TBD	VENDOR
7.1	2	Shelving, Wall Mounted	Quantum	2448C/DWB24/DWBD24	DON
7.3	1	Shelving, Wall Mounted	Quantum	2436C/DWB24	DON
8	1	Beverage Counter	JLS	Custom	DON
9	1	Stainless Steel Work Table w/ Base	JLS	Custom	DON
10	1	Spare Number	--	--	
11	1	Shake Machine	Taylor	490-A	DON
12	1	Refrigerator, Undercounter	Hoshizaki	UR48B	DON
13	1	POS Table	JLS	Custom	DON
14	4	Floor Trough Drain	By Others	Custom 6x48	VALIANT
15	1	Spare Number	--	--	
16	1	Spare Number	--	--	
17	1	Warmer	APW Wyott	RCW-7SP	DON
18	1	Stainless Steel Top Work Tables	JLS	Custom	DON
19A	1	Kitchen Display System	By Owner	TBD	OWN
19B	3	Kitchen Display System	By Owner	TBD	OWN
20	1	Spare Number	--	--	
21	1	Overhead Shelving, Ceiling Mounted	Quantum	3042C/P63C/S-Hook/FP	DON
22	1	Spare Number	--	--	
23	1	Phone	By Owner	TBD	OWNER
24	2	Hand Sink	By Contractor	By Contractor	VALIANT
25	2	Soap & Towel Dispensers	Smallwares	Custom	VENDOR
26	1	Freezer, Worktop	Hoshizaki	WF48B	DON
27-30	1	Spare Number	--	--	
31	1	Hot Food Holding Station	Carter-Hoffmann	CNH1B	DON
32	1	Food Pan Warmer	Server Products	86090	DON
33	1	Stainless Steel Work Table w/ Undershelf	JLS	Custom	DON
34-35	1	Spare Number	--	--	
36	1	Fryers	Vulcan	2TR45DF	DON
37	2	Shelving, Tubular	JLS	Custom	DON
38A	1	2 Platen Electric Double-Sided Grill - Fryer Side	Taylor	L852	DON
38B	1	2 Platen Electric Double-Sided Grill	Taylor	L852	DON
39	1	Spare Number	--	--	
40A	1	Refrigerator, Worktop - Fryer Side	Hoshizaki	WR27B-D2	DON
40B	1	Refrigerator, Worktop	Hoshizaki	WR27B-D2	DON
41	1	Spare Number	--	--	
42	1	Toaster, Vertical	Prince Castle	297-T20	DON
42.1	1	Butter Wheel	Smallwares	TBD	VENDOR
43	1	Shelving, Tubular	JLS	Custom	DON
44	2	Fire Extinguisher	By Contractor	Per Code	OWNER
45	1	Freezer	Hoshizaki	F1A-FS	DON
46	1	Refrigerator	Hoshizaki	R1A-FS	DON
48.1	1	Shelving, Wall Mounted	JLS	Custom	DON
48.2	1	Shelving, Wall Mounted	JLS	Custom	DON
49	1	Spare Number	--	--	
50	1	Spare Number	--	--	
51	1	Spare Number	--	--	
52	1	Spare Number	--	--	
53	1	Work Table, Stainless Steel Top	JLS	Custom	DON
54	1	Ice Bin	Manitowoc Ice	D-970	DON
55	1	Ice Cube Machine, Remote w/ 50' Line Set	Manitowoc Ice	RNF1020C/RC51	DON
55.1	1	Ice Bin Adapter	Manitowoc Ice	K00473	DON
55.2	1	Icemaker Condenser, Remote	Manitowoc Ice	RCUF1000-261	DON
55A	1	Filter System, Ice Maker	Manitowoc Ice	AR-20000-P	DON
56-59	1	Spare Number	--	--	
60	1	Smart Wall Dish Station Kit	Quantum	Lot	DON
61	1	Spare Number	--	--	
62	1	Pre-Rinse Faucet Assembly, With Add-On Faucet	T&S Brass	B-0133-ADF12-B	DON
63	1	Three (3) Compartment Sink	JLS	Custom	DON
63.1	3	Drain, Lever Handle	T&S Brass	B-3952	DON
64	1	Wire Shelving	Quantum	2460C/P86C/WR-00H/DB	DON
64.1	1	Wire Shelving	Quantum	2436C/P54C/WR-00H/DB	DON
64.2	1	Wire Shelving	Quantum	2448C/P86C/WR-00H-DB	DON
65	1	Spare Number	--	--	
66	2	Soda Carbonator	By Vendor	E2000 Big Mac	VENDOR
67	2	BIB Rack	By Vendor	By Vendor	VENDOR
68	1	Water Filtration System	Everpure	EV929322	DON
69-70	1	Spare Number	--	--	
71	1	Mop Sink	By Contractor	By Contractor	VALIANT
71.1	1	Stainless Steel Splash Shield	By Contractor	By Contractor	VALIANT
72	1	Service Faucet	By Contractor	By Contractor	VALIANT
73	1	Walk-In Cooler	Thermalrite	Custom	DON
73.1	1	Evaporator Coil (Refrigerator)	Thermalrite	Custom	DON
73.2	1	Cooler Condenser	Thermalrite	Custom	DON
74	1	Walk-In Freezer	Thermalrite	Custom	DON
74.1	1	Evaporator Coil (Freezer)	Thermalrite	Custom	DON
74.2	1	Freezer Condenser	Thermalrite	Custom	DON
75	2	Wire Shelving	Quantum	2460P/P74P	DON
76	2	Dunnage Rack	Quantum	QFSD-2260	DON
76.1	3	Dunnage Rack	Quantum	QFSD-2248	DON
77	1	Spare Number	--	--	
78	2	Wire Shelving	Quantum	1860C/P86C/WR-00H/DB	DON
78.1	1	Wire Shelving	Quantum	1860C/P54C/WR-00H/DB	DON
79	1	Wire Shelving	Quantum	1830C/P74C/WR-00H/DB	DON
80-81	1	Spare Number	--	--	
82	1	Safe	By Owner	TBD	OWN
83	1	Formica Desktop	By Contractor	Custom	VALIANT
84	1	Networking Box	By Vendor	TBD	VENDOR
85-86	1	Spare Number	--	--	
87	1	Shelving, Wall Mounted	Quantum	2460C/DQB24	DON
88	1	Wire Shelving	Quantum	1830C/P74C/WR-00H/DB	DON
CO2	1	Bulk CO2	By Vendor	TBD	VENDOR
EP	2	Electrical Panel	By EC	--	VALIANT
M1	1	Hood System	CaptiveAire	By Contractor	VALIANT
M2	1	Exhaust Fan	CaptiveAire	By Contractor	VALIANT
M3	1	Dedicated Outside Air System RTU	CaptiveAire	By Contractor	VALIANT
POS1	1	POS - Patio	By Owner	TBD	OWN
POS2	1	POS - Drive Thru	By Owner	TBD	OWN
PS	1	Fire System Pull Station	Ansul	PS	VALIANT
PTR1	1	PTR - Patio	By Owner	TBD	OWN
PTR2	2	PTR - Drive Thru	By Owner	TBD	OWN
WH	1	Water Heater	By PC	By PC	VALIANT



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



MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED ON DRAWING REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
DEV-2025-0124
02/12/2026 11:13:19

REV.	DATE	DESCRIPTION
R1	1/11/24	WIDTH GREW 2"
R2	1/11/24	EQUIPMENT UPDATED

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

VALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022071
PROFESSIONAL ENGINEER
VALID
CE-23-2 O24

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
HUBBARD-WERNER-CARTER & ASSOCIATES, INC.

SHEET NAME
EQUIPMENT PLAN

SHEET NUMBER
A9.1

Equipment Utility Schedule

Item Number	Qty	Description	Manufacturer	Model	FL Amps	Watts	HP	Volts	Phase	Conn Plug	Electrical RI	Electrical Remarks	Cold Water Size	Cold Water RI	Hot Water Size	Hot Water RI	Filtered Water Size	Indirect Waste Size	Direct Waste Size	Direct Waste RI	Gas Size	Gas Input Btu/h	Gas RI	Plumbing Remarks	Item Number
1	1	Shelving, Wall Mounted	JLS	Custom																					1
2	1	Spare Number	--	--																					2
3A	1	Soda Dispenser - Patio	By Vendor	By Vendor	10.0 A			120 V	1	5-15P	18"	E.C. To Verify Loads w/ Vendor Supplied Equipment						3/4"						Verify Requirements w/ Owner, Air-Gap To FS	3A
3B	1	Soda Dispenser - Drive Thru	By Vendor	By Vendor	10.0 A			120 V	1	5-15P	18"	E.C. To Verify Loads w/ Vendor Supplied Equipment						3/4"						Verify Requirements w/ Owner, Air-Gap To FS	3B
4	2	Cup Dispenser	San Jamar	C2903BK																					4
5	1	Tea Brewer	By Owner	TBD	14.0 A			120 V	1	5-15P	48"	By Owner-Verify w/ Owner					1/4"							Filtered Water From 68, By Vendor - Verify w/ Vendor	5
6	3	Tea Dispenser	By Owner	TBD																					6
7.1	2	Shelving, Wall Mounted	Quantum	2448C/DWB24/DWBD24																					7.1
7.3	1	Shelving, Wall Mounted	Quantum	2436C/DWB24																					7.3
8	1	Beverage Counter	JLS	Custom															1 1/2"	19"					8
9	1	Stainless Steel Work Table w/ Base	JLS	Custom																					9
10	1	Spare Number	--	--																					10
11	1	Shake Machine	Taylor	490-A	12.0 A	2496 W	1/2	208 V	1	L6-15P	48"	Verify plug connection w/ Vendor													11
12	1	Refrigerator, Undercounter	Hoshizaki	UR48B	3.0 A	345 W	1/5	115 V	1	5-15P	18"														12
13	1	POS Table	JLS	Custom																					13
14	4	Floor Trough Drain	By Others	Custom 6x48															3"					Verify w/ Fabricator	14
15	1	Spare Number	--	--																					15
16	1	Spare Number	--	--																					16
17	1	Warmer	APW Wyott	RCW-7SP	8.3 A	1000 W		120 V	1	5-15P	24"	3+WIRE													17
18	1	Stainless Steel Top Work Tables	JLS	Custom																					18
19A	1	Kitchen Display System	By Owner	TBD				120 V	1	5-20P	<varies>	By Owner - Verify w/ Owner, Data required													19A
19B	3	Kitchen Display System - Ceiling	By Owner	TBD				120 V	1	5-20P	<varies>	By Owner - Verify w/ Owner, Data required													19B
20	1	Spare Number	--	--																					20
21	1	Overhead Shelving, Ceiling Mounted	Quantum	3042C/P63C/S-Hook/FP																					21
22	1	Spare Number	--	--																					22
23	1	Phone	By Owner	TBD							62"	By Owner - Verify w/ Owner													23
24	2	Hand Sink	By Contractor	By Contractor									1/2"	19"	1/2"	19"			1 1/2"	21"					24
25	2	Soap & Towel Dispensers	Smallwares	Custom																					25
26	1	Freezer, Worktop	Hoshizaki	WF48B	3.6 A	414 W	1/5	115 V	1	5-15P	18"														26
27-30	1	Spare Number	--	--																					27-30
31	1	Hot Food Holding Station	Carter-Hoffmann	CNH18	15.1 A	1820 W		120 V	1	5-20P	42"														31
32	1	Food Pan Warmer	Server Products	86090	4.2 A	500 W		120 V	1	5-15P															32
33	1	Stainless Steel Work Table w/ Undershelf	JLS	Custom																					33
34-35	1	Spare Number	--	--																					34-35
36	1	Fryers	Vulcan	2TR45DF	6.0 A			120 V	1	5-15P	18"										1 1/4"	140000	28"		36
37	2	Shelving, Tubular	JLS	Custom																					37
38A	1	2 Platen Electric Double-Sided Grill - Fryer Side	Taylor	L852	48.0 A	16800 W		208 V	3	15-60P	18"														38A
38B	1	2 Platen Electric Double-Sided Grill	Taylor	L852	48.0 A	16800 W		208 V	3	15-60P	18"														38B
39	1	Spare Number	--	--																					39
40A	1	Refrigerator, Worktop - Fryer Side	Hoshizaki	WR27B-D2	3.0 A	345 W	1/6	115 V	1	5-15P	18"														40A
40B	1	Refrigerator, Worktop	Hoshizaki	WR27B-D2	3.0 A	345 W	1/6	115 V	1	5-15P	18"														40B
41	1	Spare Number	--	--																					41
42	1	Toaster, Vertical	Prince Castle	297-T20	13.0 A	1500 W		120 V	1	5-15P		Plug into work table outlet													42
42.1	1	Butter Wheel	Smallwares	TBD																					42.1
43	1	Shelving, Tubular	JLS	Custom																					43
44	1	Fire Extinguisher	By Contractor	Per Code																					44
45	1	Freezer	Hoshizaki	F1A-FS	8.5 A	973 W		115 V	1	5-15P	84"														45
46	1	Refrigerator	Hoshizaki	R1A-FS	5.0 A	575 W		115 V	1	5-15P	84"														46
48.1	1	Shelving, Wall Mounted	JLS	Custom																					48.1
48.2	1	Shelving, Wall Mounted	JLS	Custom																					48.2
49	1	Spare Number	--	--																					49
50	1	Spare Number	--	--																					50
51	1	Spare Number	--	--																					51
52	1	Spare Number	--	--																					52
53	1	Work Table, Stainless Steel Top	JLS	Custom																					53
54	1	Ice Bin	Manitowoc Ice	D-970														3/4"						Air-Gap to FS	54
55	1	Ice Cube Machine, Remote w/ 50' Line Set	Manitowoc Ice	RNF1020C/RC51	2.9 A	334 W		115 V	1	Direct	72"		3/8"				1/2"	3/4"							55
55.1	1	Ice Bin Adapter	Manitowoc Ice	K00473																					55.1
55.2	1	Icemaker Condenser, Remote	Manitowoc Ice	RCUF1000-261	15.0 A	3120 W		208 V	1	Direct		208-230V/60/1													55.2
55A	1	Filter System, Ice Maker	Manitowoc Ice	AR-20000-P									3/8"	78"			1/2"	3/8"						Filtered water to 55	55A
56-59	1	Spare Number	--	--																					56-59
60	1	Smart Wall Dish Station Kit	Quantum	Lot																					60
61	1	Spare Number	--	--																					61
62	1	Pre-Rinse Faucet Assembly, With Add-On Faucet	T&S Brass	B-0133-ADF12-B									1/2"	14"	1/2"	14"									62
63	1	Three (3) Compartment Sink	JLS	Custom														2"						Air-Gap To FS, Waste Per Code	63
63.1	3	Drain, Lever Handle	T&S Brass	B-3952														3/4"							63.1
64	1	Wire Shelving	Quantum	2460C/P86C/WR-00H/DB																					64
64.1	1	Wire Shelving	Quantum	2436C/P54C/WR-00H/DB																					64.1
64.2	1	Wire Shelving	Quantum	2448C/P86C/WR-00H-DB																					64.2
65	1	Spare Number	--	--																					65
66	2	Soda Carbonator	By Vendor	E2000 Big Mac	15.0 A		1/3	120 V	1	5-20P		By Vendor - verify requirements	1/2"											By Vendor - verify requirements	66
67	2	BIB Rack	By Vendor	By Vendor				120 V	1	5-15P	18"	By Vendor - Verify w/ Vendor					3/4"							By Vendor - Verify w/ Vendor	67
68	1	Water Filtration System	Everpure	EV929322									3/4"	90"			3/4"							Filtered Water To 5 and 66	68
69-70	1	Spare Number	--	--																					69-70
71	1	Mop Sink	By Contractor	By Contractor															2"	0"					71
71.1	1	Stainless Steel Splash Shield	By Contractor	By Contractor																					71.1
72	1	Service Faucet	By Contractor	By Contractor									1/2"	36"	1/2"	36"									72
73	1	Walk-In Cooler	Thermalrite	Custom				120 V	1	Direct	102"	See Shop Drawings													73
73.1	1	Evaporator Coil (Refrigerator)	Thermalrite	Custom						Direct	80"	See Shop Drawings						3/4"						Air-Gap To FS, See Shop Drawings	73.1
73.2	1	Cooler Condenser	Thermalrite	Custom						Direct		See Shop Drawings												See Shop Drawings	73.2
74	1	Walk-In Freezer	Thermalrite	Custom				120 V	1	Direct	102"	See Shop Drawings													74
74.1	1	Evaporator Coil (Freezer)	Thermalrite	Custom						Direct	80"	See Shop Drawings						3/4"						Air-Gap To FS, See Shop Drawings	74.1
74.2	1	Freezer Condenser	Thermalrite	Custom						Direct		See Shop Drawings												See Shop Drawings	74.2
75	2	Wire Shelving	Quantum	2460P/P74P																					75
76	2	Dunnage Rack	Quantum	QFSD-2260																					76
76.1	3	Dunnage Rack	Quantum	QFSD-2248																					76.1
77	1	Spare Number	--	--																					77
78	2	Wire Shelving	Quantum	1860C/P86C/WR-00H/DB																					78
78.1	1	Wire Shelving	Quantum	1860C/P54C/WR-00H/DB																					78.1
79	1	Wire Shelving	Quantum	1830C/P74C/WR-00H/DB																					79
80-81	1	Spare Number	--	--																					80-81
82	1	Safe	By Owner	TBD								Verify electrical requirements w/ Vendor													82
83	1	Desktop	By Contractor	Custom																					83
84	1	Networking Box	By Vendor	TBD						Direct		Data, By Vendor - Verify w/ Vendor													84
85-86	1	Spare Number	--	--																					85-86
87	1	Shelving, Wall Mounted	Quantum	2460C/DQ824																					87
88	1	Wire Shelving	Quantum	1830C/P74C/WR-00H/DB																					88
C12A	3	Duplex Convenience Outlet - Rear	By EC	--				120 V	1	5-20R	12"	By EC													C12A
C12B	2	Duplex Convenience Outlet - Front Door	By EC	--				120 V	1	5-20R	12"	By EC													C12B
C12C	2	Duplex Convenience Outlet - Office	By EC	--				120 V	1	5-20R	12"	By EC													C12C
C18	1	Duplex Convenience Outlet	By EC	--				120 V	1	5-20R	18"	By EC													C18
C44A	1	Duplex Convenience Outlet - Office	By EC	--				120 V	1	5-20R	44"	By EC													C44A
C44B	2	Duplex Convenience Outlet - Bathrooms	By EC	--				120 V	1	5-20R	44"	By EC													C44B
C48A	1	Duplex Convenience Outlet - Drive Thru	By EC	--				120 V	1	5-20R	48"	By EC													C48
C48B	1	Duplex Convenience Outlet - Hood	By EC	--				120 V	1	5-20R	48"	By EC													C48
C48C	1	Duplex Convenience Outlet - Office	By EC	--				120 V	1	5-20R	48"	By EC													C48
C48D	1	Duplex Convenience Outlet - Rear	By EC	--				120 V	1	5-20R	48"	By EC													C48
CO2	1	Bulk CO2	By Vendor	TBD																					CO2
EP	2	Electrical Panel	By EC	--																					EP
M1	1	Hood System	CaptiveAire	By Contractor				120 V	1	Direct		See Shop Drawings													M1
M2	1	Exhaust Fan	CaptiveAire	By Contractor				208 V	3	Direct		See Shop Drawings													M2
M3	1	Dedicated Outside Air System RTU	CaptiveAire	By Contractor				208 V	3	Direct		See Shop Drawings									1"	181461		See Shop Drawings	M3
POS1	1	POS - Patio	By Owner	TBD				120 V	1	5-15P	<varies>	By Owner - Verify w/ Owner, Data required													POS1
POS2	1	POS - Drive Thru	By Owner	TBD				120 V	1	5-15P	<varies>	By Owner - Verify w/ Owner, Data required													POS2
PS	1	Fire System Pull Station	Ansul	PS				120 V	1	Direct	48"	Final Conn. By Fire Safety Contractor													PS
PTR1	1	PTR - Patio	By Owner	TBD				120 V	1	5-15P	<varies>	By Owner - Verify w/ Owner, Data required													PTR1
PTR2	2	PTR - Drive Thru	By Owner	TBD				120 V	1	5-15P	<varies>	By Owner - Verify w/ Owner, Data required													PTR2
Q24	1	Quadplex Convenience Outlet - BIB Rack	By EC	--				120 V	1	5-20R	24"	By EC												By Vendor-Verify w/ Vendor	Q24
Q48	1	Quadplex Convenience Outlet - Front	By EC	--				120 V	1	5-20R	48"	By EC												By Vendor-Verify w/ Vendor	Q48
Q66	2	Quadplex Convenience Outlet - Office	By EC	--				120 V	1	5-20R	66"	By EC												By Vendor-Verify w/ Vendor	Q66
Q72	1	Quadplex Convenience Outlet - Soda Carbonator	By EC	--				120 V	1	5-20R	72"	By EC												By Vendor-Verify w/ Vendor	Q72
WH	1	Water Heater	By PC	By PC						Direct	72"	By Vendor - Verify w/ Vendor	3/4"		3/4"										WH

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS UNDER REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:19

REV.	DATE	DESCRIPTION
RS	1/11/24	UPDATED

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
HUGHES, WOOD, CARTER & ASSOCIATES

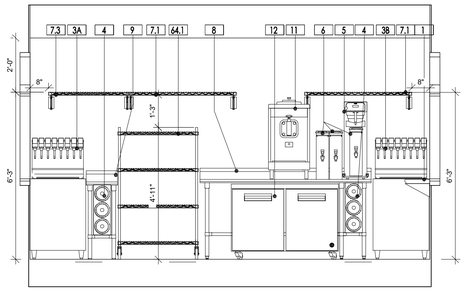
MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

SHEET NAME

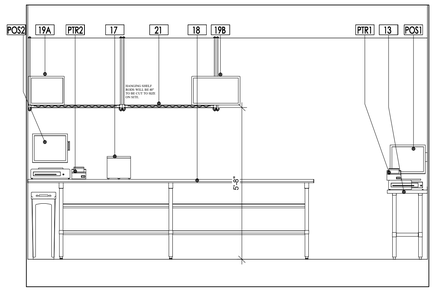
EQUIPMENT UTILITY SCHEDULE

SHEET NUMBER

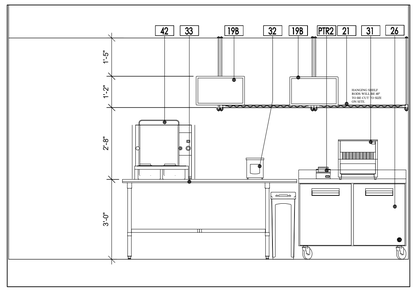
A9.2



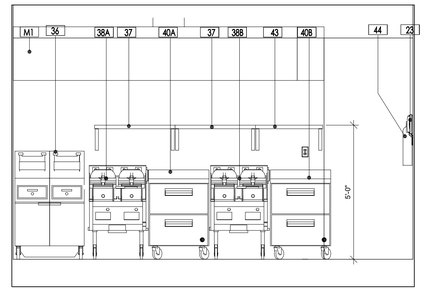
1 ELEVATION 1
3/8" = 1'-0"



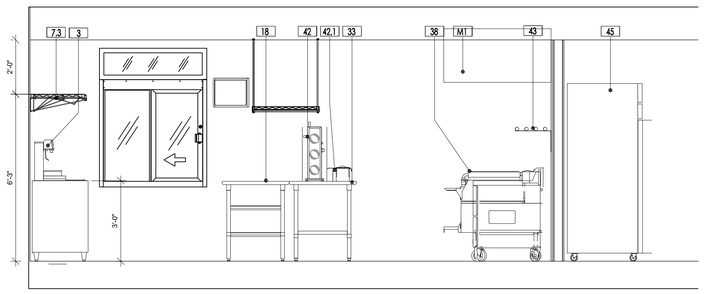
2 ELEVATION 2
3/8" = 1'-0"



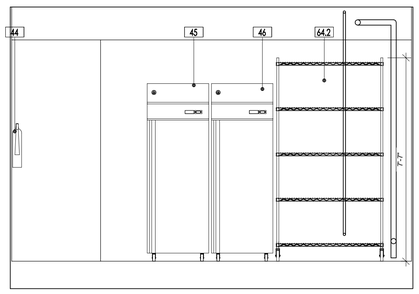
3 ELEVATION 3
3/8" = 1'-0"



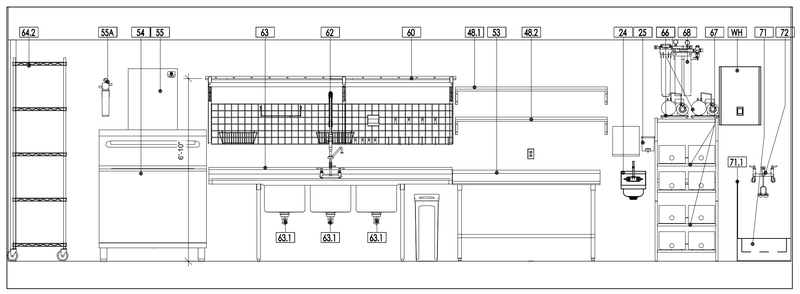
4 ELEVATION 4
3/8" = 1'-0"



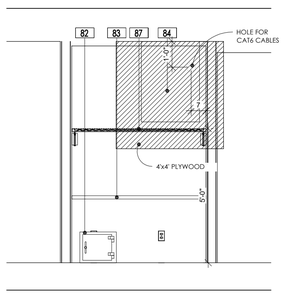
5 ELEVATION 5
3/8" = 1'-0"



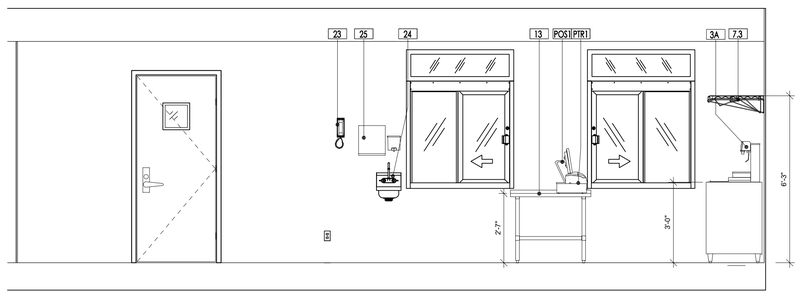
6 ELEVATION 6
3/8" = 1'-0"



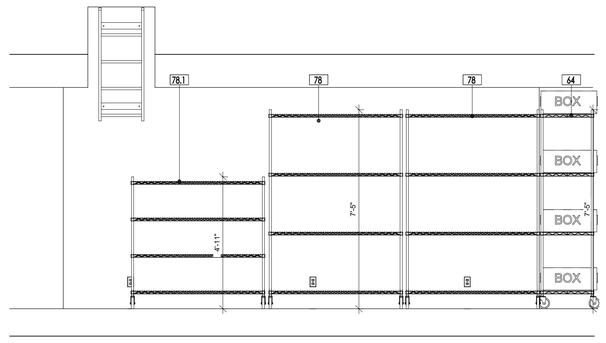
7 ELEVATION 7
3/8" = 1'-0"



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



9 ELEVATION 9
3/8" = 1'-0"



10 ELEVATION 10
3/8" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:19

REV.	DATE	DESCRIPTION
R5	1/12/24	UPDATED

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
WERNER-CARTER & ASSOCIATES

SHEET NAME

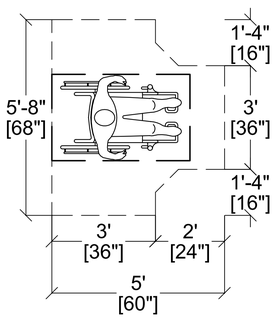
EQUIPMENT ELEVATIONS

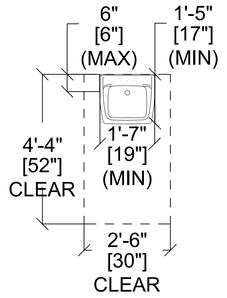
SHEET NUMBER

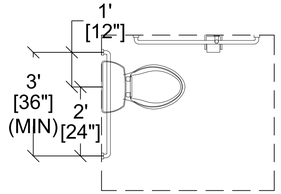
A9.3

Fixture Heights And Clearances

NOTE: ALL ACCESSIBLE FIXTURES SHALL COMPLY WITH ANSI A117.1-17

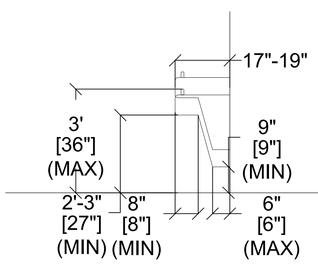




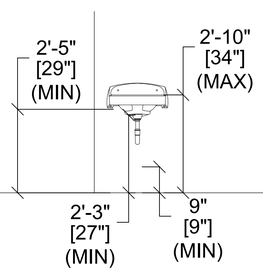


DRINKING FOUNTAINS SHALL CONFORM TO ASME A112,19,1M, ASME A112,19,2M, OR ASME A112,19,9M; AND WATER COOLERS SHALL CONFORM TO ARI 1010. DRINKING FOUNTAINS AND WATER COOLERS SHALL CONFORM TO NSF 61, SECTION 9. **WHERE WATER IS SERVED IN RESTAURANTS, DRINKING FOUNTAINS SHALL NOT BE REQUIRED.** IN OTHER OCCUPANCIES, WHERE DRINKING FOUNTAINS ARE REQUIRED, BOTTLED WATER DISPENSERS SHALL BE PERMITTED TO BE SUBSTITUTED FOR NOT MORE THAN 50 PERCENT OF THE REQUIRED DRINKING FOUNTAIN. PROVIDE HI-LOW ACCESSIBLE DRINKING FOUNTAIN AS PER THE FBC 2020-PLUMBING SECTION 410.3. DRINKING FOUNTAINS ARE NOT REQUIRED FOR AN OCCUPANT LOAD OF 15 OR FEWER PER 410.2.

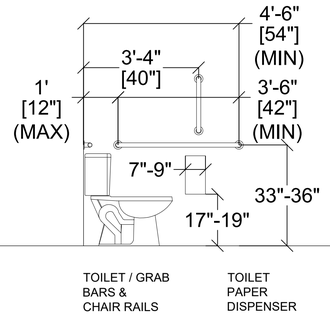
IF FIRE EXTINGUISHER CABINET IS OVER 40LBS, IT SHALL BE INSTALLED SO THAT THE TOP OF THE FIRE EXTINGUISHER IS NOT MORE THAN 3'-6" A.F.F. PER NFPA 10.



DRINKING FOUNTAIN

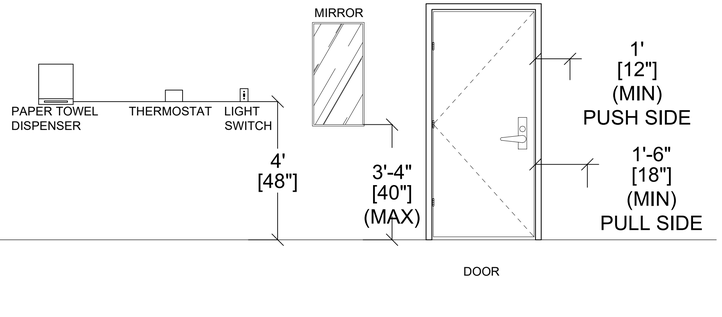


HC LAV



TOILET / GRAB BARS & CHAIR RAILS

TOILET PAPER DISPENSER

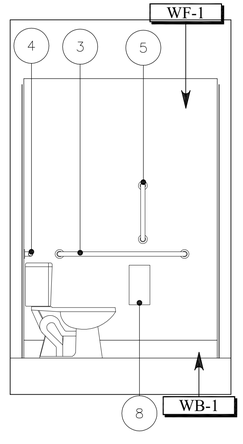


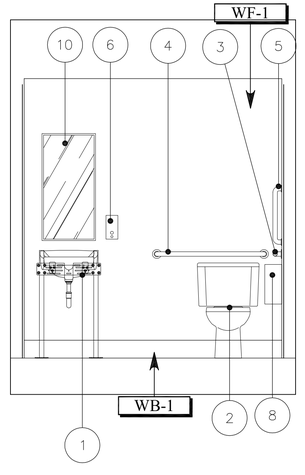
DOOR

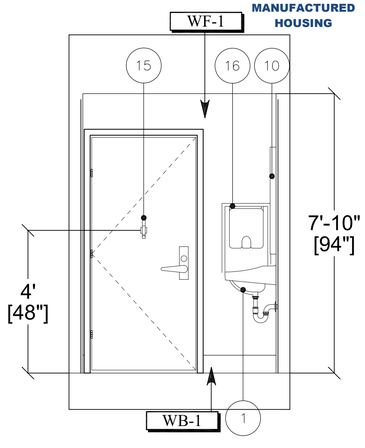
ACCESSORY SCHEDULE (#)

DIVISION 10

ITEM NO.	QUANTITY	SUPPL'D	INSTL'D	DESCRIPTION	MODEL NO. AS SHOWN OR EQUIVALENT
1	1	G.C.	G.C.	LAVATORY FAUCET	AMERICAN STANDARD – ADA COMPLAINT SEE PLUMBING DRAWINGS
2	1	G.C.	G.C.	WATER CLOSET	AMERICAN STANDARD – ADA COMPLAINT SEE PLUMBING DRAWINGS
3	1	G.C.	G.C.	GRAB BAR 36" LONG	BOBRICK – B-5806.99 x 36 – SEE SPECIFICATIONS
4	1	G.C.	G.C.	GRAB BAR 42" LONG	BOBRICK – B-5806.99 x 42 – SEE SPECIFICATIONS
5	1	G.C.	G.C.	GRAB BAR 18" LONG	BOBRICK – B-5806.99 x 18 – SEE SPECIFICATIONS
6	1	G.C.	G.C.	SOAP DISPENSER 15 oz. LIQUID	BOBRICK – B-4112 – SEE SPECIFICATIONS
7	1	O.W.	G.C.	PAPER TOWEL DISPENSER	BOBRICK – B-4262 – SEE SPECIFICATIONS
8	1	O.W.	G.C.	TOILET PAPER DISPENSER	BOBRICK – B-2892 – SEE SPECIFICATIONS
9	0	O.W.	G.C.	WATER FILTRATION SYSTEM	AQUAPURE – DP-290 – SEE SPECIFICATIONS
10	1	G.C.	G.C.	MIRROR	BOBRICK – B-165-1836 – SEE SPECIFICATIONS
11	0	G.C.	G.C.	EMPLOYEE LOCKERS	REPUBLIC STORAGE SYSTEMS LLC. – SEE SPECIFICATIONS
12	0	O.W.	G.C.	SANITARY NAPKIN RECEPTACLE	BOBRICK – B-270 – SEE SPECIFICATIONS
13	0	G.C.	G.C.	SEAT COVER DISPENSER	BOBRICK – B-4221 – SEE SPECIFICATIONS
14	0	G.C.	G.C.	FLUSH VALVE	ZURN – Z6000AV – AQUAVANTAGE – SEE PLUMBING DRAWINGS
15	0	G.C.	G.C.	COAT HOOK	BOBRICK – B-6707 – SEE SPECIFICATIONS
16	0	G.C.	G.C.	HAND DRYER	XLERATOR HAND DRYERS – XL-GR – SEE SPECIFICATIONS
17	0	G.C.	G.C.	BABY CHANGING TABLE	KOALA – KB101-05-VERTICAL
				INSULATION FOR DRAIN AND WATER LINES IN LAVATORY =	TRUEBRO LAV GUARD 2 MOLDED P-TRAP & SUPPLY COVER







MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

1 RESTROOM ELEVATIONS
1/2" = 1'-0"

RELEASE FOR CONSTRUCTION
PENDING FINAL REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:10

REV.	DATE	DESCRIPTION
R2	01/23	BATHROOM WIDTH GREW 2"

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
CE-23-2 O24

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
WERNER-CARTER & ASSOCIATES

SHEET NAME

RESTROOM ELEVATIONS

SHEET NUMBER

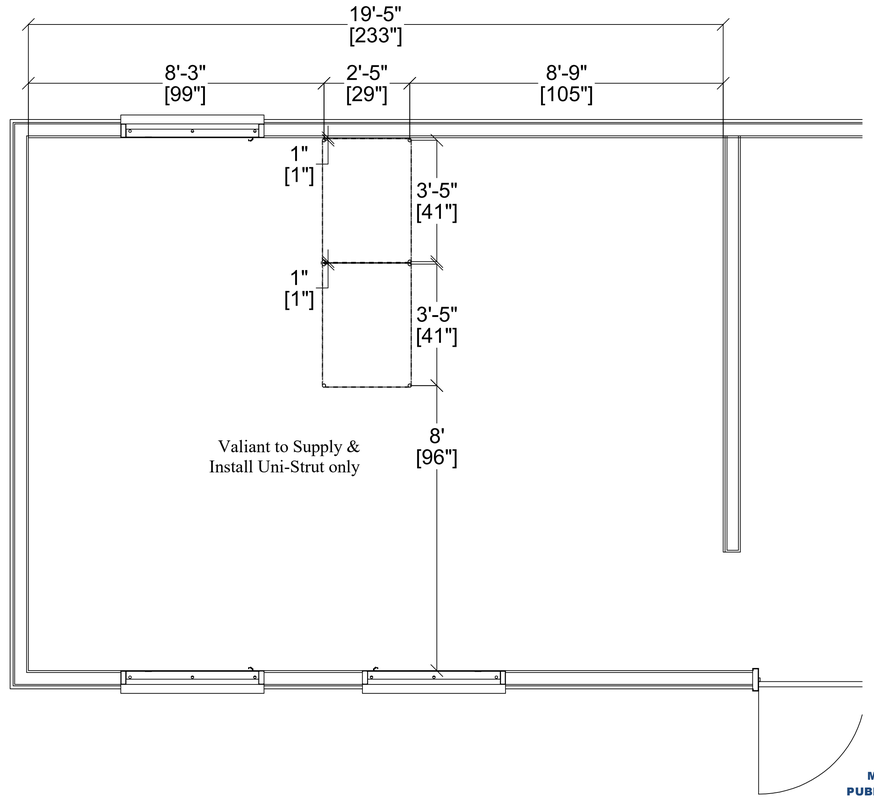
A9.4

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:19

NO.	DATE	DESCRIPTION

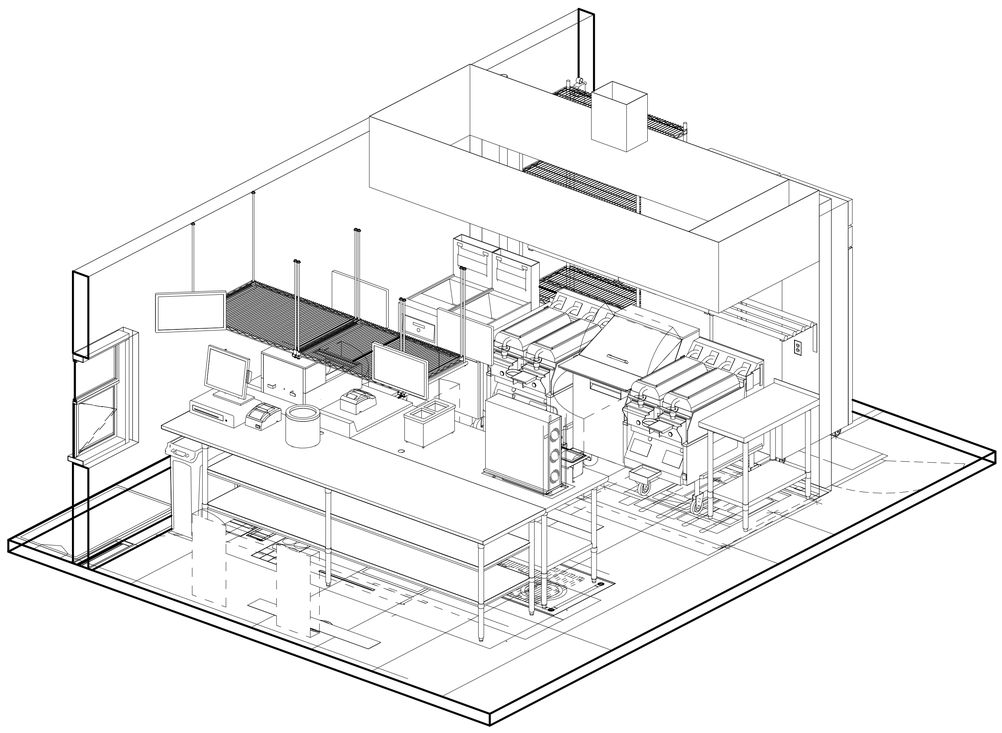
LAST DESIGN BULLETIN

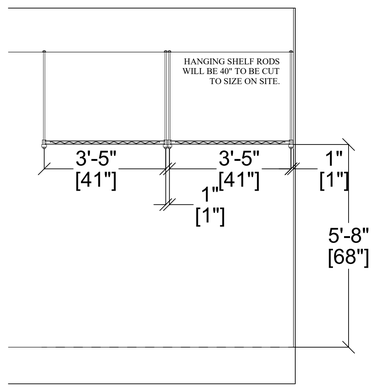
NUM.	DATE	DESCRIPTION



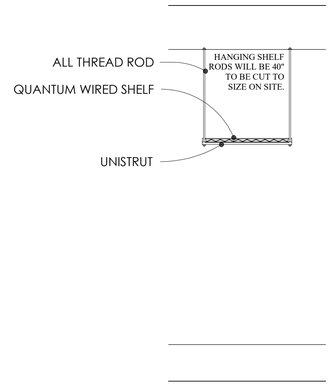
1 OVERHEAD SHELVING - HANGING POINTS
1/2" = 1'-0"

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING





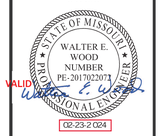
3 ELEVATION 1
1/2" = 1'-0"



2 ELEVATION 2
1/2" = 1'-0"

VALIANT
MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP



Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

SHEET NAME

HANGING SHELVES

SHEET NUMBER

A9.5

DOOR HARDWARE SCHEDULE AS SHOWN OR EQUIVALENT — DIVISION 8

QTY.	DESCRIPTION	MANUFACTURER	MODEL #	FINISH	REMARKS
1	SET-01 - REAR				
3	HINGES	CAL-ROYAL	BB31	US32D	NRP
1	PANIC DEVICE	MARKS USA (OR CAL-ROYAL)	M9900H (OR A7700)	US32D	
1	KEYPAD ACCESS LOCK	ALARM LOCK	ETDL27-S1G-26D-M99	US26D	TRILOGY T2 SERIES
1	CLOSER	CAL-ROYAL	300	ALUM	PCOV
1	WEATHER-STRIPPING	PEMKO	303	MILL FINISH	ECO-V
1	DOOR SWEEP	PEMKO	3452	MILL FINISH	ECO-V
1	THRESHOLD	PEMKO	270	ALUM	
1	KICKPLATE	DIAMOND PLATE SHEET	.06 THICK		32" X 39.5"
2	SET-02 - WATER CLOSET				
3	HINGES	CAL-ROYAL	BB31	US32D	NRP
1	CYLINDRICAL LOCKSET	CAL-ROYAL	SL101	US26D	
1	CLOSER	CAL-ROYAL	300	ALUM	PCOV
1	WEATHER-STRIPPING	PEMKO	303	MILL FINISH	ECO-V
1	DOOR SWEEP	PEMKO	3452	MILL FINISH	ECO-V
1	THRESHOLD	PEMKO	270	ALUM	
1	KICKPLATE	DIAMOND PLATE SHEET	.06 THICK		12" X 34"
1	SET-03 - OFFICE				
3	HINGES	CAL-ROYAL	BB31	US32D	NRP
1	CYLINDRICAL LOCKSET	CAL-ROYAL	SL05	US26D	
1	KICKPLATE	DIAMOND PLATE SHEET	.06 THICK		12" X 34"
1	SET-04 - FRONT				
3	HINGES	CAL-ROYAL	BB31	US32D	NRP
1	PANIC DEVICE	CAL-ROYAL (OR MARKS USA)	A7700 (OR M9900H)	ALUM	
1	CYLINDRICAL LEVER/ CLUTCH	CAL-ROYAL	ENT-00L	US26D	
1	CLOSER	CAL-ROYAL	300	ALUM	PCOV
1	WEATHER-STRIPPING	PEMKO	303	MILL FINISH	ECO-V
1	DOOR SWEEP	PEMKO	3452	MILL FINISH	ECO-V
1	THRESHOLD	PEMKO	270	ALUM	
1	KICKPLATE	DIAMOND PLATE SHEET	.06 THICK		12" X 34"

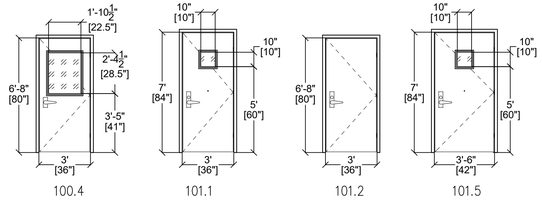
HARDWARE SCHEDULE NOTES:

1. ALL HARDWARE IS NEW (UNLESS NOTED OTHERWISE).
2. ALL DOOR LOCKSETS/LATCHSETS SHALL BE "LEVER TYPE" IN COMPLIANCE WITH ACCESSIBILITY CODES.
3. ALL DOOR HANDLES, PULLS, LATCHES, LOCKS, AND/OR OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN 34" MIN. AND 48" MAXIMUM ABOVE FINISHED FLOOR.
4. ALL DOOR THRESHOLDS SHALL BE ½" HIGH MAXIMUM .
5. ALL DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEAD EDGE.

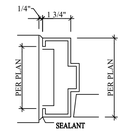
DOOR, FRAME, & HARDWARE SCHEDULE AS SHOWN OR EQUIVALENT — DIVISION 8

DOOR	NO.	SIZE	R.O. SIZE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	SET NO.	REMARKS
OFFICE DOOR (1)	100.4	3'-0" x 6'-8" x 1 3/4" W/ LT KIT & GLASS 1'-10 1/2" X 2'-4 1/2"	DOOR WIDTH + 1-1/4" X DOOR HEIGHT + 5/8"	H.M.	PT	F1	H.M.	PT	03	1,2,3 U=.35 MAX
FRONT DOOR (1)	101.1	3'-0" x 7" x 1 3/4" W/ WIDE-ANGLE DOOR VIEWER	DOOR WIDTH + 1-1/4" X DOOR HEIGHT + 5/8"	H.M.	PT	F1	H.M.	PT	04	1,2,3,4 U=.35 MAX
BATHROOM DOOR (2)	101.2	3'-0" x 6'-8" x 1 3/4"	DOOR WIDTH + 1-1/4" X DOOR HEIGHT + 5/8"	H.M.	PT	F1	H.M.	PT	02	1,2,3 U=.35 MAX
REAR DOOR (1)	101.5	3'-6" x 7' x 1 3/4" W/ WIDE-ANGLE DOOR VIEWER	DOOR WIDTH + 1-1/4" X DOOR HEIGHT + 5/8"	H.M.	PT	F1	H.M.	PT	01	1,2,3,4 U=.35 MAX

DOOR TYPES



FRAME TYPES



F1

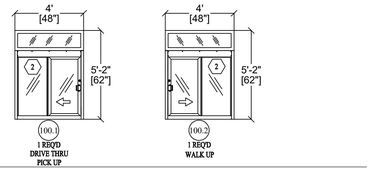
DOOR REMARKS LEGEND

1) UNDER CUT DOOR 5/8"
2) INSULATED, GALVANIZED HOLLOW METAL DOOR AND FRAME.
3) DAYBAR DELTA R-7 HURRICANE UP TO 75PSF
4) DOOR WILL HAVE OPAQUE FILM OVER SAFETY GLASS AND WIDE ANGLE DOOR VIEWER

GENERAL NOTES

1. THE BUILDING MANUFACTURER SHALL COORDINATE ALL WORK WITH RESPECTIVE TRADES, BUILDING / FIRE / HEALTH OFFICIALS AND OWNER.
2. SEAL EXTERIOR WALL AND ROOF PENETRATIONS AND JOINTS BETWEEN DISSIMILAR MATERIALS TO ENSURE A COMPLETELY WEATHER-TIGHT SEAL. SEALANT LOCATIONS INCLUDE BUT ARE NOT LIMITED TO : LIGHT FIXTURE MOUNTS, DOOR AND WINDOW FRAMES, FASCIA EDGES, SIGNAGE MOUNTS, CONDUIT PENETRATIONS, SCUPPERS, ELECTRICAL OUTLETS, HOSE BIBS, AND UTILITY SERVICE ENTRANCES.
3. INSTALL COMMERCIAL GRADE BUILDING WRAP BEHIND RAINSCREEN SYSTEM & OVER EXTERIOR SHEATHING. CONTINUOUS VAPOR RETARDER SHALL BE ON INSTALLED ON THE INTERIOR SIDE OF THE WALL FRAMING CONSTRUCTION AND BEHIND APPLIED WALL FINISH SHEATHING. LAP AND TAPE ALL SEAMS TO ACHIEVE CONTINUOUS COVERAGE OVER THE ENTIRE UNFENESTRATED BUILDING ENVELOPE.
4. EXTERIOR SIDEWALKS AND PAVING ARE SHOWN FOR DESIGN INTENT ONLY. G.C. SHALL BE RESPONSIBLE FOR COORDINATING SCOPE OF WORK WITH OWNER'S REPRESENTATIVE AND OR CIVIL DRAWINGS.
5. GRADES SHALL BE 2" MIN. BELOW FLOOR SLAB AND SHALL SLOPE AWAY FROM BUILDING @ 5% SLOPE EXCEPT @ PEDESTRIAN PATHS WHICH SHALL BE SLOPED AWAY FROM BUILDING @ ¼" PER FOOT MIN. AND ¼" PER FOOT MAX.
6. ITEMS MOUNTED ON TOP OF THE PARAPET ARE TO BE SET IN A FULL BED OF SEALANT AND HAVE FULL DEPTH BLOCKING IMMEDIATELY BELOW CAP, FASCIA, AND DRIP EDGE.
7. SEE STRUCTURAL PLAN AND DETAILS FOR ADDITIONAL FRAMING REQUIREMENTS.
8.

WINDOW ELEVATIONS



ELEVATIONS CODED NOTES

1. (GL-1): 1" INSULATED GLAZING PANEL, CLEAR GLASS
2. (GL-2): 1" INSULATED GLAZING PANEL, CLEAR TEMPERED GLASS
3. (GL-3): 1" INSULATED GLAZING PANEL, CLEAR STORM IMPACT GLASS

WINDOW SCHEDULE AS SHOWN OR EQUIVALENT — DIVISION 8

MARK	ROUGH OPENING SIZE	TYPE	CONSTRUCTION	GLASS TYPE	HEAD HEIGHT	REMARKS
100.1	4'W + ½" x 4'H + ½"	QUICK SERV IFSC – 4040 – B – R MODEL: 181	ALUM.	GL-2	7'-11½"	DARK BRONZE ANODIZED (CLASS II, .4 MILS MINIMUM) FINISH, U=.30 MAX, SHGC=28 MAX
100.2	4'W + ½" x 4'H + ½"	QUICK SERV IFSC – 4040 – B – L MODEL: 180	ALUM.	GL-2	7'-11½"	DARK BRONZE ANODIZED (CLASS II, .4 MILS MINIMUM) FINISH, U=.30 MAX, SHGC=28 MAX

WINDOW SCHEDULE NOTES:

1. REFER TO WINDOW ELEVATIONS FOR SPECIFIC DIMENSIONS AND ADDITIONAL DETAIL INFORMATION.
2. WINDOW CONTRACTOR SHALL FIELD VERIFY ALL ROUGH OPENINGS FOR ALL WINDOWS PRIOR TO PREPARATION OF SHOP DRAWINGS.
3. IF VELOCITY WIND SPEEDS ARE EQUAL TO OR GREATER THAN 140 MPH OR INSTALL LOCATION IS WITHIN A MILE OF THE COAST, STORM IMPACT GLASS WILL BE USED.

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
ST. LOUIS COUNTY, MISSOURI
02/21/24 11:13:19

REVISIONS/UPDATES

REV.	DATE	DESCRIPTION

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

smalls SLIDERS

DATE ISSUED:

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL. 32174
(386) 677-3335

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022072
PROFESSIONAL ENGINEER
VALID UNLESS SIGNED IN BLUE
02-23-2 Q24

APPROVED
2-23-2024
HWC
HOUSTON • WERNER • CARTER & ASSOCIATES

CHECKED BY:
DRAWN BY:

DOOR AND WINDOW SCHEDULE

Project #

DRAWING NUMBER:
A11.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
REVISIONS
02/12/2026 11:13:19

DEFINE

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CONDENSATE
CFM	CUBIC FEET PER MINUTE
CT	CHILLER
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
COP	COEFFICIENT OF PERFORMANCE
CT	COOLING TOWER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
DB	DRY BULB
DOAS	DEDICATED 100% OUTSIDE AIR UNIT
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECO	EXTERIOR CLEANOUT
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FFE	FINISHED FLOOR ELEVATION
FPI	FINS PER INCH
HP	HORSEPOWER
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
KH	KITCHEN HOOD
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MVD	MANUAL VOLUME DAMPER
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
NTS	NOT TO SCALE
NC	NOISE CRITERIA
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PD	PRESSURE DROP
PHWR	PLANT HEATING HOT WATER RETURN
PHWS	PLANT HEATING HOT WATER SUPPLY
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP A/C UNIT
SA	SUPPLY AIR
SD	STORM DRAIN
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SWR	SIDE WALL REGISTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WB	WET BULB
WG	WATER GAGE
WPD	WATER PRESSURE DROP

DESIGN

MECHANICAL LEGEND

GRILLES, REGISTERS, DIFFUSERS, AND LOUVERS

EXISTING	DEMO	NEW	DESCRIPTION
		A100	GRILLE DESIGNATION AND CFM
			SURFACE MOUNT
			LAY-IN SUPPLY CEILING DIFFUSER
			SUPPLY WALL DIFFUSER
			LINEAR SLOT DIFFUSER
			RETURN/EXHAUST CEILING GRILLE
			RETURN/EXHAUST WALL GRILLE
			EXHAUST LOUVER
			EXHAUST WALL CAP
			GRAVITY RELIEF HOOD
			INTAKE LOUVER
			INTAKE WALL CAP
			GRAVITY INTAKE HOOD

DUCTWORK

EXISTING	DEMO	NEW	DESCRIPTION
			RECTANGULAR DUCTWORK. REFER TO PLANS FOR SIZE.
			ROUND DUCTWORK. REFER TO PLANS FOR SIZE.
			ROUND DUCTWORK DROP/RISE.
			DUCT DROP/RISE

PIPING

EXISTING	DEMO	NEW	DESCRIPTION
CWS	CWS	CWS	CHILLED WATER SUPPLY PIPING
CWR	CWR	CWR	CHILLED WATER RETURN PIPING
HWS	HWS	HWS	HOT WATER SUPPLY PIPING
HWR	HWR	HWR	HOT WATER RETURN PIPING
CS	CS	CS	CONDENSER WATER SUPPLY PIPING
CR	CR	CR	CONDENSER WATER RETURN PIPING

DAMPERS

EXISTING	DEMO	NEW	DESCRIPTION
			BALANCING DAMPER
M	M	M	MOTORIZED DAMPER
FD	FD	FD	FIRE DAMPER
SD	SD	SD	SMOKE DAMPER
FDSD	FDSD	FDSD	FIRE & SMOKE DAMPER

EQUIPMENT

EXISTING	DEMO	NEW	DESCRIPTION
			MECHANICAL EQUIPMENT. REFER TO SCHEDULES
			IONIZATION UNIT
SD	SD	SD	SMOKE DETECTOR
MP	MP	MP	MANUAL PULL STATION

CONTROLS

EXISTING	DEMO	NEW	DESCRIPTION
T	T	T	THERMOSTAT
H	H	H	HUMIDISTAT
S	S	S	SENSOR
P	P	P	STATIC PRESSURE SENSOR
RS	RS	RS	REMOTE TEMPERATURE SENSOR
$	$	$	WALL SWITCH
			CONTROL WIRING

NOTES: 1.
2.
3. REFER TO SCHEDULES FOR GRILLE, REGISTER, DIFFUSER, AND LOUVER SIZES.
4. REFER TO DRAWINGS FOR DIRECTION OF AIRFLOW FOR DIFFUSERS. IF DIRECTIONAL ARROWS ARE NOT INCLUDED, AIRFLOW IS IN FOUR DIRECTIONS. (4-WAY GRILLE)
5. WALL MOUNTED CONTROL DEVICES SHALL BE MOUNTED AT 48" A.F.F.
6. NOT ALL ITEMS SHOWN ON THIS LIST MAY BE APPLICABLE TO THIS PROJECT.

DELIVER

MECHANICAL GENERAL NOTES

1.
2.
3.
4. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHALL NOT BE SCALED. COORDINATE ROUTING OF SERVICES WITH SITE CONDITIONS AND WITH WORK OF OTHER TRADES.
5.
6. VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF DUCTWORK AND PIPING PRIOR TO FABRICATION, AS MINOR MODIFICATIONS SUCH AS DUCT AND/OR PIPING RISES AND DROP MAY BE REQUIRED DUE TO FIELD CONDITIONS. MAKE MINOR MODIFICATIONS TO THE BUILDING, PIPING, SPRINKLER, DUCTWORK, ELECTRICAL, ETC. AS SHOWN ON THE DRAWINGS OR REQUIRED TO COMPLETE THE INSTALLATION OF A COMPLETED WORKABLE SYSTEM.
7.
8. SEAL PENETRATIONS THROUGH THE BUILDING ENVELOPE.
9. PENETRATIONS THROUGH RATED WALLS, FLOORS, PARTITIONS AND ASSEMBLIES SHALL BE INSTALLED AND FIRESAFED TO MEET UL. FIRE RESISTANCE LISTING AND NFPA EQUIREMENTS FOR THE PENETRATION.
10. COORDINATE DEVICES REQUIRING ACCESS PANELS WITH THE ARCHITECT AND OTHER TRADES.COORDINATE DEVICES REQUIRING ACCESS PANELS WITH THE ARCHITECT AND OTHER TRADES.
11. MAINTAIN MINIMUM CLEARANCE 10'-0" BETWEEN OUTSIDE INTAKES AND EXHAUST OUTLETS AND PLUMBING VENTS.
12. COORDINATE FINAL LOCATIONS AND ELEVATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
13. COORDINATE FINAL FINISH COLORS OF MATERIALS, DEVICES, DIFFUSER, GRILLES, LOUVERS, AND/OR EQUIPMENT WITH THE ARCHITECT PRIOR TO ORDERING, FABRICATION AND INSTALLATION.
14.
15. INSTALL DEVICES AND EQUIPMENT TO MEET ADA REQUIREMENTS.
16. ROUTE DUCT AND PIPING CONCEALED IN INTERSTITIAL SPACE UNLESS NOTED OTHERWISE.
17. DOCUMENT LOCATIONS OF DEVICES, DUCT, PIPING, AND EQUIPMENT ON "AS-BUILT" RECORD DRAWINGS AS PER THE SPECIFICATIONS.
18.
19. HVAC SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 90A AND NFPA 101.
20. WORK SHOWN IN THE DRAWINGS SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES.

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017023073
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
02-23-2024
HWC
HUBER WEAVER CARTER & ASSOCIATES

SHEET NAME

MECHANICAL LEGEND

SHEET NUMBER

M1.1

HVAC DUCTWORK INSULATION:

LOW PRESSURE SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST TYPE DUCTS SHALL BE WRAPPED ON OUTSIDE WITH 2.125" MINIMUM THICKNESS, 3/4# DENSITY, MINIMUM INSTALLED R-VALUE OF R-6.0, FIBERGLASS INSULATION WITH ALUMINUM FOIL VAPOR BARRIER. INSULATION SHALL BE TAPED AT ALL JOINTS AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

SECURE INSULATION WITH VAPOR BARRIER AND SEAL JACKET JOINTS WITH VAPOR BARRIER ADHESIVE OR TAPE TO MATCH JACKET. INSTALL WITHOUT SAG ON UNDERSIDE OF DUCTWORK. USE 4"WIDE STRIPS OF ADHESIVE (FOSTER 85-60 OR CHILDERS CP-127 WATER BASED ADHESIVE) ON 8 INCH CENTERS OR MECHANICAL FASTENERS 12" ON CENTER TO PREVENT SAGGING. SEAL VAPOR BARRIER PENETRATIONS BY MECHANICAL FASTENERS WITH VAPOR BARRIER ADHESIVE. STOP AND POINT INSULATION AROUND ACCESS DOORS AND DAMPER OPERATORS TO ALLOW OPERATION WITHOUT DISTURBING WRAPPING. COVER SEAMS, JOINTS, PIN PENETRATIONS AND OTHER BREAKS WITH FOSTER 30-65 OR CHILDERS CP-34 VAPOR BARRIER COATING REINFORCED WITH REINFORCED GLASS CLOTH. REINFORCING MESH SHALL BE FOSTER MAST A FAB OR CHILDERS CHIL GLAS #10.

INSULATION SHALL HAVE A MINIMUM R-VALUE OF R-6 IF LOCATED IN AN UNCONDITIONED SPACE OR R-8 IF LOCATED OUTSIDE OF BUILDING.

LOW PRESSURE DUCTWORK:

ALL DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE OF GAUGES AND CONSTRUCTION AS RECOMMENDED BY ASHRAE GUIDE AND DATA BOOK. GAUGES ARE AS FOLLOWS, WITH LONGEST SIDE GOVERNING. (DUCT DIMENSIONS ON PLANS ARE METAL-TO-METAL DIMENSIONS).

DIMENSIONS OF LONGEST SIDE:	SHEET METAL GAUGE:
0" TO 12"	26 GAUGE
13" TO 30"	24 GAUGE
31" TO 54"	22 GAUGE
55" TO 84"	20 GAUGE

ALL DUCTWORK SHALL BE SEALED AT SEAMS AND JOINTS WITH TAPE AND HARDCAST DUCT SEALANT MATERIAL.

JOINTS AND REINFORCING SHALL BE AS PER ASHRAE GUIDE AND DATA BOOK AND ALL SLIPS SHALL BE INSTALLED WITHOUT EDGE OF INTERNAL PART OF SLIP FACING DOWNSTREAM.

CONSTRUCTION STANDARDS OF ARTICLE 110 OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, BULLETIN 90, LATEST EDITION, SHALL APPLY THROUGHOUT.

FLASHINGS SHALL BE SHEET COPPER OR GALVANIZED SHEET METAL, AND SHALL BE FURNISHED AND INSTALLED AROUND ALL OUTSIDE OPENINGS USED FOR DUCTS OF FANS AND WHEREVER REQUIRED. ROOF FLASHINGS SHALL EXTEND AT LEAST 8" ABOVE ROOF. PROVIDE 1/16" THICK RUBBER GASKET MATERIAL BETWEEN FLASHING AND FAN HOUSING AND OR SHEET METAL DUCTWORK. PROVIDE SEPARATION OF DISSIMILAR MATERIALS WITH DIE-ELECTRIC MATERIAL CONNECTION.

ALL DUCTS SHALL BE STRAIGHT AND TRUE AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER.

ALL EDGES SHALL BE STRAIGHT AND TRUE, AND ALL BENDS SHALL BE MADE WITH VANED TURNS. WHERE LONG RADIUS TURNS CANNOT BE USED, THE CONTRACTOR SHALL USE SQUARE TURNS AND USE AIR SPLITTERS SPACED NOT MORE THAN 3" CENTER TO CENTER, AND OF A LENGTH SO AIR WILL BE PROPERLY DISTRIBUTED OVER THE DUCTS.

PROVIDE PAINT GRIP SHEET METAL WHERE INDICATED ON PLANS.

ROUND DUCTWORK:

SHALL BE CONSTRUCTED OF 26 GAUGE GALVANIZED SHEET METAL WITH SCREWED AND TAPED JOINTS.

AT CONTRACTOR'S OPTION , PRE-INSULATED FLEXIBLE DUCTWORK AS MANUFACTURED BY THERMAFLEX MODEL MKE, FLEXMASTER 8M OR PRIOR APPROVED EQUIVALENT (MANUFACTURERS LITERATURE AND SAMPLE WILL BE REQUIRED FOR PRIOR APPROVAL) MAY BE USED TO CONNECT TO CEILING DIFFUSERS (MAXIMUM 5'-0" LENGTH). FLEXIBLE DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS. INNER AND OUTER LINER SHALL BE PROPERLY SEALED AND SECURED.

SPIN COLLARS:

ALL ROUND TAKE-OFFS TO ROUND BRANCH DUCT SHALL BE MADE WITH FACTORY FABRICATED SPIN-TYPE COLLAR FITTINGS WITH BALANCING DAMPER AND CONSTRUCTED OF MINIMUM 26 GA GALVANIZED STEEL. THE DAMPER SHALL HAVE A RAISED 2" HANDLE WITH A HIGH QUALITY LOCKING QUADRANT. A 3/8" CONTINUOUS ROD WITH "U" BOLTS CONNECTS THE DAMPER TO THE ROD. NYLON END BEARING ARE REQUIRED WHERE THE ROD PENETRATES THE SPIN COLLAR BARREL. THESE SPIN-COLLARS SHALL BE AS MANUFACTURED BY FLEXMASTER MODEL FLD-B03, DACE #26GA MSD-C03 OR APPROVED EQUAL.

DUCTWORK SEALANT:

ALL DUCTWORK SHALL BE AIR TIGHT. ALL SEAMS, BOTH SHOP MADE AND FIELD INSTALLED, AND SHALL BE SEALED WITH MASTIC. ALL TRANSVERSE JOINTS SHALL BE SEALED AS WELL AS SPIN COLLAR TAKEOFFS AND ROUGH DUCT CONNECTIONS. ALL DUCT CONNECTIONS AND SEAMS SHALL BE SEALED WITH A UL APPROVED NON-FLAMMABLE MASTIC SYSTEM. STRICT ADHERENCE TO MANUFACTURERS INSTALLATION INSTRUCTION IS REQUIRED. THE DUCT SEALANT SHALL BE EQUAL TO HARDCAST SURE-GRIP 404 , UNITED MCGILL SOLVENT BASED DUCT SEALANT, OR PRIOR APPROVED DUCT SEALING SYSTEM. IN RETURN AIR PLENUM SPACES, ALL SURFACES SHALL BE RATED FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT.

ALL LOW PRESSURE DUCTWORK SHALL BE SEALED TO "SEAL CLASS A". SEAL CLASS A IS TRANSVERSE JOINTS AND SEAMS AND WALL PENETRATIONS (SENSORS).

MOTORIZED DAMPERS: (RECTANGULAR TYPE DAMPERS)

MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL MOTORIZED DAMPERS AT OUTDOOR INTAKES AS INDICATED ON MECHANICAL AND ARCHITECTURAL DRAWINGS. DAMPER SHALL BE PARALLEL BLADE MOTORIZED TYPE EQUIVALENT TO RUSKIN CD36/PB, ARROW SERIES 1770, GREENHECK MODEL VCD-23 OR EQUAL. MOTORIZED DAMPERS SHALL BE OPERATED BY 120/1/60 ELECTRIC ACTUATORS PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR OR 120/1/60 ELECTRIC ACTUATOR AS INDICATED ON PLANS. DAMPER SHALL BE COMPLETE WITH OUTBOARD SUPPORT BEARING, BLADE AND JAMB SEALS. DAMPERS SHALL BE LOW - LEAKAGE TYPE.

MANUAL DAMPERS:

MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL MANUAL DAMPERS AT OUTDOOR AIR INTAKES AND IN OTHER RECTANGULAR DUCTWORK AS INDICATED ON PLANS. DAMPER SHALL BE COMPLETE WITH OUTBOARD SUPPORT BEARING, AND MANUAL LOCKING QUADRANT LEVER FOR BALANCING. DAMPERS SHALL BE MANUFACTURED BY RUSKIN MODEL MD25, GREENHECK MODEL MBD-10M OR PRIOR APPROVED EQUAL.

VENTILATING SYSTEM:

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL EXHAUST FANS SHOWN AND SCHEDULED ON PLANS. FANS SHALL BE OF THE TYPE INDICATED AND SHALL BE CAPTIVEAIRE, COOK, GREENHECK, ACME OR APPROVED EQUIVALENT.

ALL EXHAUST FANS SHALL BE EQUIPPED WITH BIRD SCREEN, AUTOMATIC BACK-DRAFT DAMPERS, SOLID STATE SPEED CONTROLLER (DIRECT DRIVE) AND INTEGRAL DISCONNECT SWITCH UNLESS NOTED OTHERWISE. FAN MOTORS SHALL BE OF THE 40 DEG C AMBIENT TEMPERATURE RISE TYPE AND SHALL BE SUITABLE FOR CONTINUOUS DUTY OPERATION.

DIRECT DRIVE FANS SHALL BE COMPLETE WITH SOLID STATE SPEED CONTROL SWITCH MOUNTED ON UNIT FOR BALANCING. INTERLOCK WITH REMOTE ON/OFF SWITCH.

THERMOSTAT:

PROVIDE FULLY AUTOMATIC PROGRAMMABLE (7 DAY) ROOM TYPE THERMOSTAT AS INDICATED ON PLANS TO CYCLE COMPRESSOR ON COOLING CYCLE, AND COMPRESSOR AND/OR ELECTRIC STRIPS IN STAGES ON HEATING CYCLE AS REQUIRED TO MAINTAIN SPACE CONDITIONS. UNIT SHALL BE WIRED FOR CONSTANT OR AUTOMATIC FAN OPERATION AND SHALL BE ELECTRICALLY INTERLOCKED SUCH THAT THE COMPRESSOR MAY NOT RUN NOR THE ELECTRIC STRIP HEATERS BE ENERGIZED UNLESS THE EVAPORATOR FAN IS OPERATING. THERMOSTAT SHALL BE COMPLETE WITH FAN "AUTO-ON" SWITCH AND SYSTEM "AUTO-HEAT-OFF-COOL" SWITCH. THERMOSTATS SHALL BE MOUNTED TO MEET LATEST A.D.A. REQUIREMENTS.

SMOKE DETECTOR:

THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A SMOKE DETECTOR IN THE SUPPLY DUCT AND RETURN DUCT OF ALL AIR HANDLERS DELIVERING IN EXCESS OF 2000 C.F.M. AND SHALL BE INTERLOCKED TO DE-ENERGIZE FAN ON ACTUATION OF DETECTOR.

SMOKE DETECTORS SHALL HAVE AUXILIARY CONTACTS FOR INTERLOCK WITH THE FIRE ALARM SYSTEM. COORDINATE INSTALLATION AND SELECTION OF SMOKE DETECTORS. ENTIRE INSTALLATION SHALL MEET UL REQUIREMENTS FOR INTERLOCK WITH BUILDING FIRE ALARM AND SECURITY SYSTEM.

PROVIDE REMOTE AUDIBLE AND VISUAL ALARM UNIT (ONE PER AHU WITH SMOKE DETECTOR) IN ACCORDANCE WITH LATEST N.F.P.A. 90A REQUIREMENTS.

DUAL-CHAMBER, IONIZATION SMOKE DETECTORS: THE COMBINATION DETECTOR HEAD AND TWIST-LOCK BASE SHALL BE UL LISTED COMPATIBLE WITH A UL LISTED FIRE ALARM PANEL.

THE SMOKE DETECTOR SHALL HAVE A FLASHING STATUS INDICATION LED OR VISUAL SUPERVISION. WHEN THE DETECTOR IS ACTUATED, THE FLASHING LED SHALL LATCH ON STEADY AND AT FULL BRILLIANCE. THE DETECTOR MAY BE RESET BY ACTIVATING THE CONTROL PANEL RESET SWITCH.

THE SENSITIVITY OF THE DETECTOR SHALL BE MONITORED WITHOUT REMOVAL OF THE DETECTOR HEAD. METERING SETPOINTS SHALL BE ACCESSIBLE ON THE EXTERIOR OF THE DETECTOR HEAD. FIELD ADJUSTMENT THE SENSITIVITY SHALL BE POSSIBLE WHEN CONDITIONS REQUIRE A CHANGE.

IT SHALL BE POSSIBLE TO PERFORM A FUNCTIONAL TEST OF THE DETECTOR WITHOUT THE NEED OF GENERATING SMOKE. THE TEST METHOD MUST SIMULATE EFFECTS OF PRODUCTS OF COMBUSTION IN THE CHAMBER TO ENSURE TESTING OF ALL DETECTOR CIRCUITS.

VOLTAGE AND RF TRANSIENT SUPPRESSION TECHNIQUES SHALL BE EMPLOYED TO MINIMIZE FALSE ALARM POTENTIAL. A GATED ALARM OUTPUT SHALL BE USED FOR ADDITIONAL DETECTOR STABILITY.

AUXILIARY SPDT RELAYS AND/OR REMOTE LED ALARM INDICATORS SHALL BE INSTALLED AS REQUIRED.

DUCT MOUNTED SMOKE DETECTORS SHALL SHUT DOWN THE ASSOCIATED AIR HANDLING UNIT FAN MOTOR AN FIRE/SMOKE DAMPER. THIS CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR AS REQUIRED TO ACCOMPLISH SAME.

FLOAT SWITCH:

PROVIDE FLOAT SWITCH TO EMERGENCY DRAIN PAN OF EACH AHU. SWITCH SHALL BE INTERLOCKED WITH AHU TO DE-ENERGIZE THE UNIT WHEN THE WATER LEVEL IN THE PAN RISES ABOVE A SET LEVEL. FLOAT SWITCH SHALL MEET UL 508 REQUIREMENTS.

MOTORIZED DAMPERS:

O.A. MOTORIZED DAMPERS SHALL BE INTERLOCKED WITH THEIR RESPECTIVE UNIT TO OPEN WHEN THE A/C UNIT'S SUPPLY FAN IS ENTERGIZED(ON), AND SHALL CLOSE WHEN THE UNIT'S SUPPLY FAN IS DE-ENETERGIZED(OFF). PROVIDE ALL NECESSARY RELAYS, SWITCHES, TRANSFORMERS, ETC. AS REQUIRED.

MOTORIZED DAMPERS SHALL BE FURNISHED AND SET IN PLACE BY CONTRACTOR INSTALLING THE DOAS UNIT.

DAMPER ACTUATORS SHALL BE 120/1/60 ELECTRIC ACTUATORS SPECIFICALLY SELECTED FOR DAMPER MANUFACTURER'S REQUIREMENTS. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ACTUATORS. COORDINATE ALL WORK WITH CONTRACTOR INSTALLING DAMPERS.

CONTROL WIRING:

ALL WIRING REQUIRED IN THE CONTROL SYSTEMS, INCLUDING ELECTRICAL CONNECTIONS FOR THE THERMOSTATS, FIRESTATS, SMOKE DETECTORS, EXHAUST FANS AND ALL INTERLOCKING MOTOR CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

ALL WIRING SHALL BE IN CONDUIT AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.).

ALL CONTROL WIRING LOCATED OUTDOORS SHALL BE INSTALLED IN RIGID OR INTERMEDIATE METAL CONDUIT.

ALL CONTROL WIRING LOCATED INDOORS WHERE AN ACCESSIBLE CEILING IS NOT AVAILABLE SHALL BE INSTALLED IN E.M.T. CONDUIT.

ALL CONTROL WIRING LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE N.E.C. APPROVED CABLE. ALL CONTROL WIRING LOCATED ABOVE ACCESSIBLE CEILINGS USED AS AIR PLENUMS SHALL BE N.E.C. APPROVED "PLENUM CABLE".

ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS USED FOR POWER CIRCUITS SHALL BE #12 TW MINIMUM. CONDUCTORS USED FOR CONTROL CIRCUITS SHALL BE #18 TW (SINGLE STRAND) MINIMUM. CONDUCTORS USED FOR SENSOR CIRCUITS SHALL BE #18 TW (SINGLE STRAND) MINIMUM. CONTROL WIRING FOR DX EQUIPMENT THERMOSTATS SHALL BE 10 CONDUCTOR CABLES.

OUTSIDE AIR HANDLING UNIT:

SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPLACE COMPONENTS OF RTUS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.

WARRANTY PERIOD FOR COMPRESSORS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

WARRANTY PERIOD FOR GAS FURNACE HEAT EXCHANGERS: MANUFACTURER'S STANDARD, BUT NOT LESS THAN 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

WARRANTY PERIOD FOR VARIABLE FREQUENCY DRIVES: NOT LESS THAN 24 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.

PRODUCTS

PACKAGED A/C UNIT (MARKED "OAU-1")

ROOF MOUNTED , DOUBLE WALL, ELECTRONICALLY CONTROLLED HEATING AND COOLING UNIT UTILIZING HERMETIC SCROLL COMPRESSORS WITH CRANKCASE HEATERS FOR COOLING DUTY, DUAL REFRIGERANT CIRCUIT, STAGED AIR VOLUME CONTROL, AND WITH ELECTRIC HEAT. UNITS SHALL HAVE HORIZONTAL DISCHARGE SUPPLY AND RETURN AIR AS SHOWN ON DRAWINGS.

MANUFACTURERS SHALL BE ONE OF THE FOLLOWING OR PRIOR APPROVED EQUAL:
BASIS OF DESIGN: CAPTIVEAIRE.

RTU CASING

GENERAL FABRICATION REQUIREMENTS FOR CASINGS: FORMED AND REINFORCED DOUBLE-WALL INSULATED PANELS, FABRICATED TO ALLOW REMOVAL FOR ACCESS TO INTERNAL PARTS AND COMPONENTS, WITH JOINTS BETWEEN SECTIONS SEALED.

EXTERIOR CASING MATERIAL: GALVANIZED STEEL WITH FACTORY-PAINTED FINISH, WITH PITCHED ROOF PANELS AND KNOCKOUTS WITH GROMMET SEALS FOR ELECTRICAL AND PIPING CONNECTIONS AND LIFTING LUGS.

EXTERIOR CASING THICKNESS: 0.0626 INCH THICK.

TOP COVER SHALL BE 18 GAGE SHEET METAL WITH 0.75 INCH THICK, 1.5 LB DENSITY, FIBERGLASS INSULATION.

INTERIOR CASING SHALL BE GALVANIZED STEEL INNER PANELS.

CASING INSULATION AND ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B.

MATERIALS: ASTM C 1071, TYPE I.

THICKNESS: 1/2 INCH, 1.5 LB DENSITY.

LINER MATERIALS SHALL HAVE AIR-STREAM SURFACE COATED WITH AN EROSION- AND TEMPERATURE-RESISTANT COATING OR FACED WITH A PLAIN OR COATED FIBROUS MAT OR FABRIC.

LINER ADHESIVE: COMPLY WITH ASTM C 916, TYPE I.

CONDENSATE DRAIN PANS: FORMED SECTIONS OF STAINLESS-STEEL SHEET, A MINIMUM OF 2 INCHES DEEP, AND COMPLYING WITH ASHRAE 62.1.

DOUBLE-WALL CONSTRUCTION: FILL SPACE BETWEEN WALLS WITH FOAM INSULATION AND SEAL MOISTURE TIGHT. DRAIN CONNECTIONS: THREADED NIPPLE BOTH SIDES OF DRAIN PAN.

RTU FANS

DIRECT-DRIVEN SUPPLY-AIR FANS: DOUBLE WIDTH, FORWARD CURVED, CENTRIFUGAL; WITH PERMANENTLY LUBRICATED, MOTOR RESILIENTLY MOUNTED IN THE FAN INLET. ALUMINUM OR PAINTED-STEEL WHEELS, AND GALVANIZED- OR PAINTED-STEEL FAN SCROLLS.

CONDENSER-COIL FAN: PROPELLER, MOUNTED ON SHAFT OF PERMANENTLY LUBRICATED MOTOR.

FAN MOTOR: COMPLY WITH REQUIREMENTS IN SECTION 230513 "COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT." FANS SHALL BE STATICALLY AND DYNAMICALLY BALANCED.

FAN DRIVE FOR THE STAGED AIR VOLUME UNITS SHALL BE EQUIPPED WITH VARIABLE FREQUENCY DRIVE INVERTER (VFDS). THE VFD SHALL CONTROL MOTOR SPEED TO USER CONFIGURABLE SPEEDS. THE CONTROLS SHALL ALLOW USER CONFIGURABLE SPEEDS FOR COOLING AND HEATING MODES. THE VFD SHALL BE FACTORY-MOUNTED, WIRED, AND TESTED.

RTU COILS

SUPPLY-AIR REFRIGERANT COIL: COPPER-PLATE FIN AND SEAMLESS INTERNALLY GROOVED COPPER TUBE IN STEEL CASING WITH EQUALIZING-TYPE VERTICAL DISTRIBUTOR.

CONDENSATE DRAIN PAN: STAINLESS STEEL FORMED WITH PITCH AND DRAIN CONNECTIONS COMPLYING WITH ASHRAE 62.1.

RTU CIRCUIT COMPONENTS

NUMBER OF REFRIGERANT CIRCUITS: TWO.

COMPRESSOR: HERMETIC, SCROLL, MOUNTED ON VIBRATION ISOLATORS; WITH INTERNAL OVERCURRENT AND HIGH-TEMPERATURE PROTECTION, INTERNAL PRESSURE RELIEF, AND CRANKCASE HEATER.
REFRIGERATION SPECIALTIES:

REFRIGERANT: R-410A.
EXPANSION VALVE WITH REPLACEABLE THERMOSTATIC ELEMENT.
REFRIGERANT FILTER/DRYER.
MANUAL-RESET HIGH-PRESSURE SAFETY SWITCH.
AUTOMATIC-RESET LOW-PRESSURE SAFETY SWITCH.
MINIMUM OFF-TIME RELAY.
AUTOMATIC-RESET COMPRESSOR MOTOR THERMAL OVERLOAD.
BRASS SERVICE VALVES INSTALLED IN COMPRESSOR SUCTION AND LIQUID LINES.
LOW-AMBIENT KIT HIGH-PRESSURE SENSOR.

RTU AIR FILTRATION

MINIMUM ARRESTANCE ACCORDING TO ASHRAE 52.1, AND A MINIMUM EFFICIENCY REPORTING VALUE (MERV) ACCORDING TO ASHRAE 52.2.

PLEATED: MINIMUM 2 " THICK DISPOSABLE FIBERGLASS FILTERS WITH 90 PERCENT ARRESTANCE, AND MERV 7.

RTU ELECTRIC HEATER SECTION

PROVIDE AN ELECTRIC RESISTANCE HEATER SECTION WITH CAPACITY AS SCHEDULED ON DRAWINGS.

RTU DAMPERS

OUTDOOR-AIR DAMPER: LINKED DAMPER BLADES, FOR 0 TO 25 PERCENT OUTDOOR AIR, WITH MOTORIZED DAMPER FILTER. DAMPER SHALL OPEN WHEN UNIT IS RUNNING AND SHALL CLOSE WHEN FAN IS OFF.

RTU ELECTRICAL POWER CONNECTION

PROVIDE FOR SINGLE CONNECTION OF POWER TO UNIT WITH UNIT-MOUNTED DISCONNECT SWITCH ACCESSIBLE FROM ADJACENT TO OUTSIDE UNIT AND CONTROL-CIRCUIT TRANSFORMER WITH BUILT-IN OVERCURRENT PROTECTION. DO NOT MOUNT DISCONNECT ON OUTDOOR UNIT.

CONTROLS

RTU BASIC UNIT CONTROLS:

CONTROL-VOLTAGE TRANSFORMER.

NON PROGRAMMABLE - WALL-MOUNTED THERMOSTAT OR SENSOR WITH THE FOLLOWING FEATURES:

HEAT-COOL-OFF SWITCH.
FAN ON-AUTO SWITCH.
FAN-SPEED SWITCH.
AUTOMATIC CHANGEOVER.
ADJUSTABLE DEADBAND.
CONCEALED SET POINT.
CONCEALED INDICATION.
DEGREE F INDICATION.
UNOCCUPIED-PERIOD-OVERRIDE PUSH BUTTON.

SUPPLY AIR SENSOR SHALL BE LOCATED IN THE UNIT AND SHALL BE USED FOR COMPRESSOR STAGE CONTROL.
VARIABLE CAPACITY COMPRESSOR CONTROL:

VARIABLE COMPRESSOR CONTROL SHALL BE CAPABLE OF UNLOADING THIS COMPRESSOR IN AN INFINITE NUMBER OF STEPS FROM 100% OF COMPRESSOR CAPACITY DOWN TO 50% OF COMPRESSOR CAPACITY TO MEET THE DEMAND FOR THE STAGED AIR VOLUME CONTROL.

RTU ACCESSORIES

LOW-AMBIENT KIT USING STAGED CONDENSER FANS FOR OPERATION DOWN TO 35 DEG F.

FILTER DIFFERENTIAL PRESSURE SWITCH WITH SENSOR TUBING ON EITHER SIDE OF FILTER. SET FOR FINAL FILTER PRESSURE LOSS.

COIL GUARDS OF PAINTED, GALVANIZED-STEEL WIRE.

HAIL GUARDS OF GALVANIZED STEEL, PAINTED TO MATCH CASING.

HUMIDITY SENSOR.

SECURITY GRILLES.

INSTALLATION

EQUIPMENT CURB: INSTALL ON CONCRETE BASE, LEVEL AND SECURE. SECURE RTUS TO UPPER CURB RAIL, AND SECURE CURB BASE TO CONCRETE BASE WITH ANCHOR BOLTS.

CONNECTIONS

INSTALL CONDENSATE DRAIN, MINIMUM CONNECTION SIZE, WITH TRAP AND INDIRECT CONNECTION TO NEAREST ROOF DRAIN OR AREA DRAIN.

INSTALL PIPING ADJACENT TO RTUS TO ALLOW SERVICE AND MAINTENANCE.

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED OR BY JURISDICTIONAL REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
REVIEWED FOR CODE COMPLIANCE
02/12/2026 11:13:19

LAST DESIGN BULLETIN		
NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2010020973
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
H. WARNER CARTER & ASSOCIATES

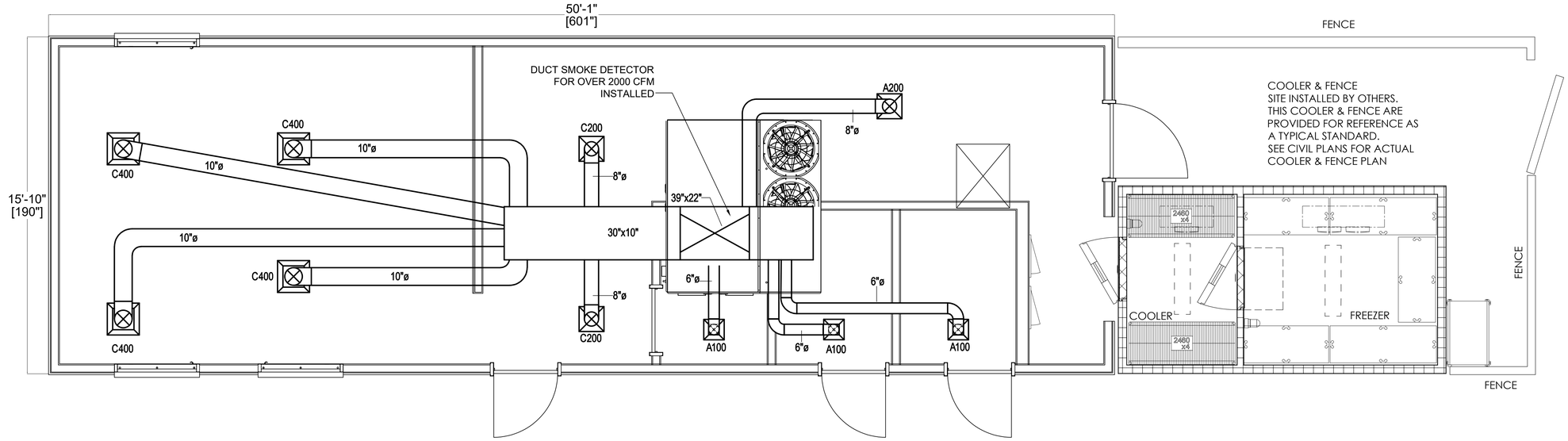
SHEET NAME

MECHANICAL SPECIFICATIONS

SHEET NUMBER

M1.2

AIR BALANCE SCHEDULE		
	EXHAUST	SUPPLY
EXHAUST HOOD	2152 CFM	
DOAS		2550 CFM
BATHROOM	160 CFM	
OVERALL BALANCE		238 CFM



1 MECHANICAL PLAN
3/8" = 1'-0"

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:19

REV.	DATE	DESCRIPTION
R1	10/26/23	UPDATED HVAC
R2	1/15/24	BATHROOM WIDTH GREW 2"

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER
PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
WERNER-CARTER & ASSOCIATES

SHEET NAME

MECHANICAL PLAN

SHEET NUMBER

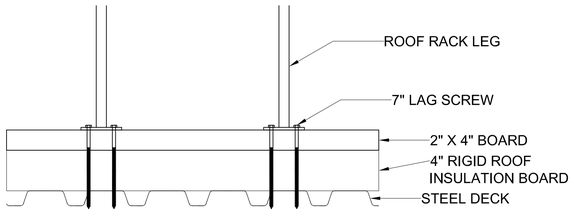
M2.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:19

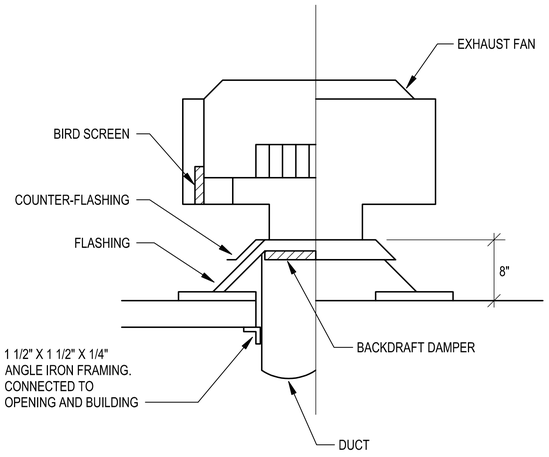
REV.	DATE	DESCRIPTION

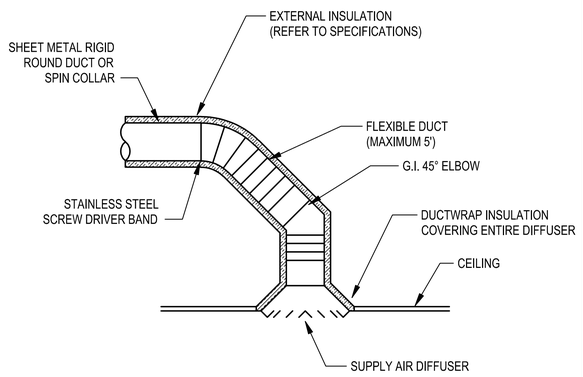
LAST DESIGN BULLETIN

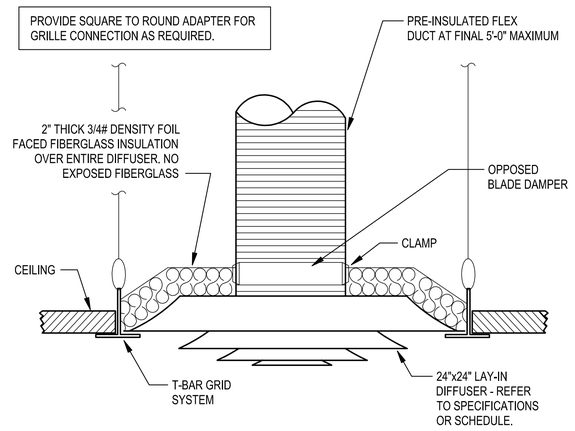
NUM.	DATE	DESCRIPTION



ROOF RACK
FLORIDA PRODUCT APPROVAL
FL16921

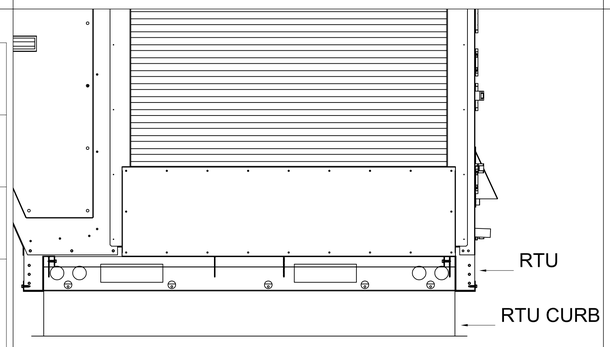




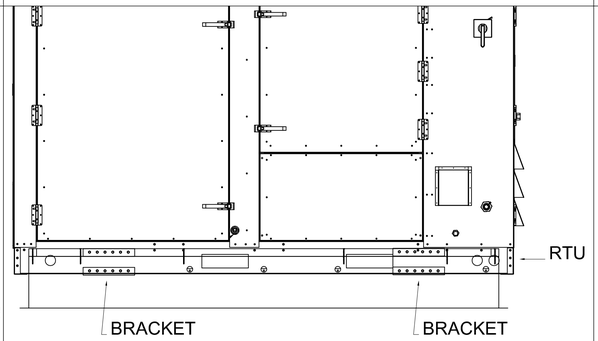


DETAIL LEGEND	
X48	#10 X 1" SELF TAPPING PLATED SCREW
X20	#8 X 3" WOOD SCREW
X4	WIND & SEISMIC BRACKET

RTU CURB SPOT WELDED 6" O.C. TO RED IRON STEEL ROOF

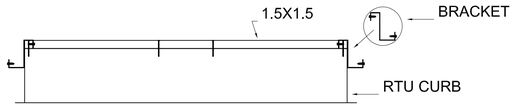


SIDE VIEW

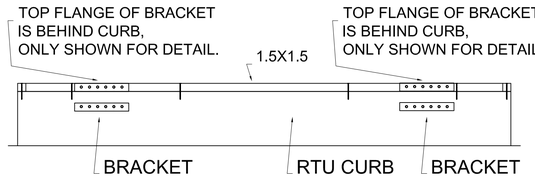


FRONT VIEW

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING



SIDE VIEW



FRONT VIEW

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2010022073
PROFESSIONAL ENGINEER
VALID
02-23-2 024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED 2-23-2024 HWC BRUNER-CARTER & ASSOC. LTD.

SHEET NAME

MECHANICAL SCHEDULE & DETAILS

SHEET NUMBER

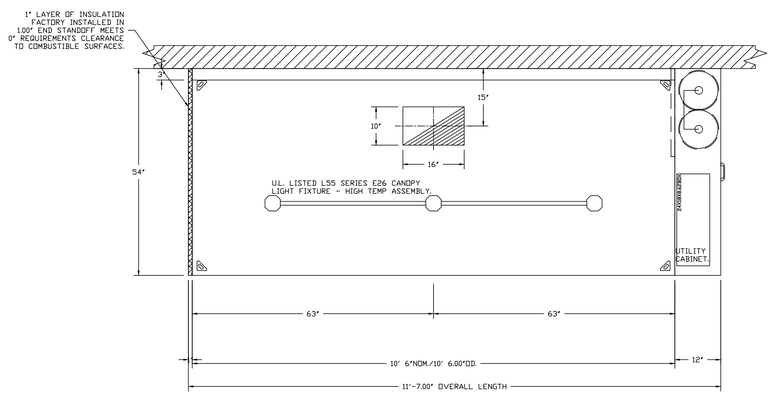
M3.1

HOOD INFORMATION – JOB#8381394

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		5424 AH-ND-2	ADVANCED HOOD	10' 6"	450 DEG	I	MEDIUM	205	2152	10"	16"	4"		2152	1937	-0.872"	430 SS WHERE EXPOSED	ALONE	ALONE

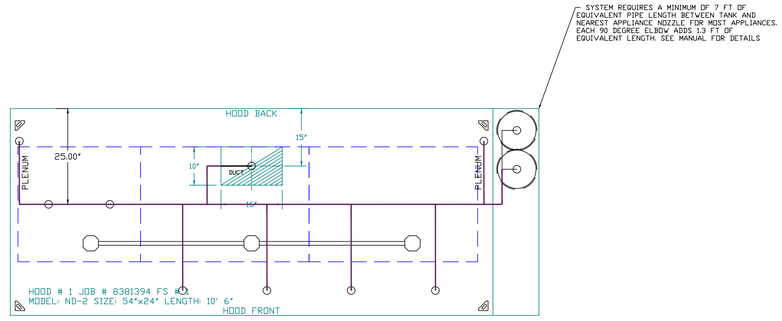
HOOD INFORMATION

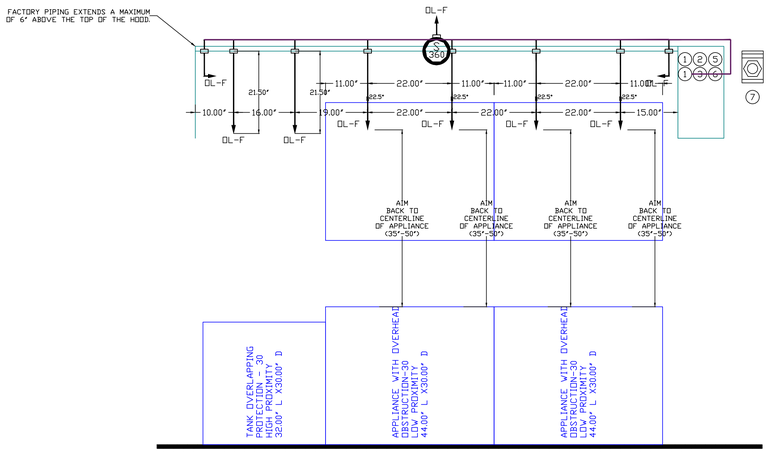
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	767 LBS



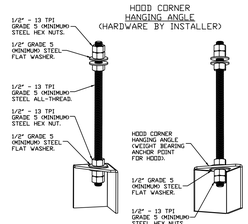
PLAN VIEW – HOOD #1
10' 6.00" LONG 5424AH-ND-2

EXHAUST HOOD WELD INSPECTION, 200W LIGHT TEST, INSTALLATION INSPECTION, AND GAS LINE INSPECTION ARE PERFORMED IN THE FACTORY BY:
JOSEPH SMALLWOOD
FLORIDA FIRE SAFETY INSPECTOR GRADE I #145324
FLORIDA FIRE SAFETY INSPECTOR GRADE II #176236
CERTIFICATES REGISTERED WITH PRO BOARD





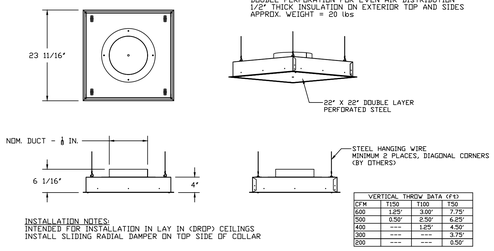
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

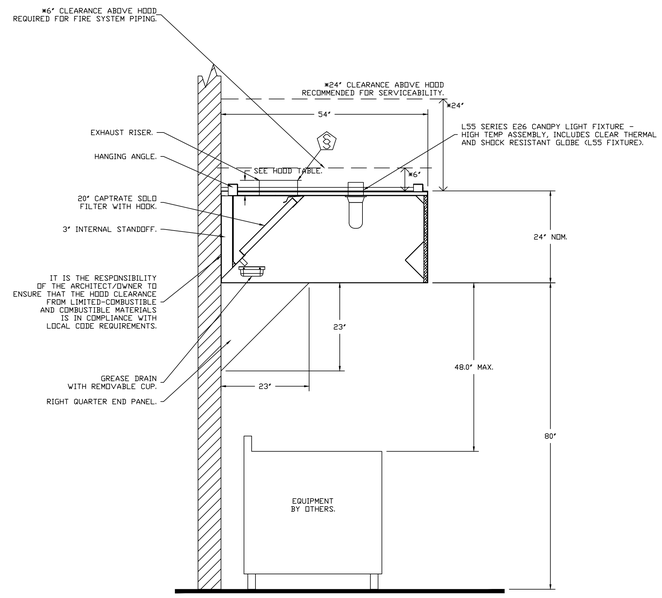
QTY 7-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



INSTALLATION NOTES:
INTENDED FOR INSTALLATION IN LAY IN (DROP) CEILINGS
INSTALL SLIDING RADIAL DAMPER ON TOP SIDE OF COLLAR

VERTICAL THROW DATA (FT)

CFM	T150	T100	T50
600	1.25"	3.00"	7.75"
500	0.50"	2.50"	6.25"
400	---	1.25"	4.50"
300	---	---	3.75"
200	---	---	0.50"



SECTION VIEW – MODEL 5424AH-ND-2
HOOD – #1

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

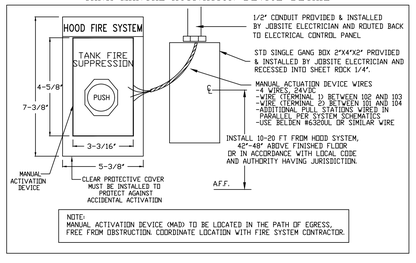
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 8381394.
JOB NAME: SLIDERS SOUTH LEE SUMMIT, MO.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 38. MAXIMUM FP: 40.
HOOD # 1 10' 6.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" x 16".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

TANK MANUAL ACTIVATION DEVICE DETAIL



FIRE SYSTEM INFORMATION – JOB#8381394

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	INSTALLATION LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	38	FIRE CABINET RIGHT	RIGHT, HOOD 1

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DESIGN COMPLIANCE
LEE'S SUMMIT MISSOURI
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REVISIONS
△
△
△
△

Advanced Hoods Systems, LLC
. FL PHONE: FAX: 9782275974 EMAIL: justin@advancedhoodsystems.com

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

02-23-2024
HWC
HOWARD, CARTER & ASSOCIATES, INC.

STATE OF MISSOURI
WALTER E. WOOD NUMBER PE-2010022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

FOR QUESTIONS, CALL THE
Advanced Hoods Systems, LLC
REGION 140
PHONE: 407-269-4813
EMAIL: scott@advancedhoodsystems.com

SLIDERS

DATE:
DWG.#:
DRAWN BY:
SCALE:
MASTER DRAWING

SHEET NO.
1

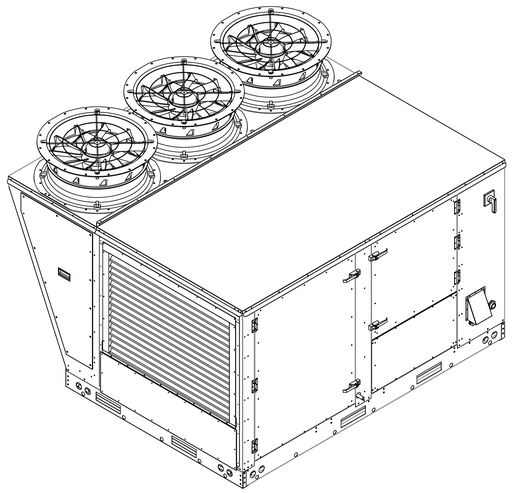
FAN #2 AHRTU3-I.200-15-17.5T-DOAS - HEATER

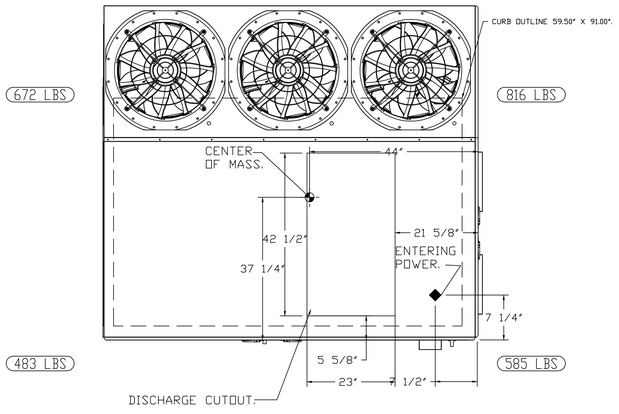
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
4. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

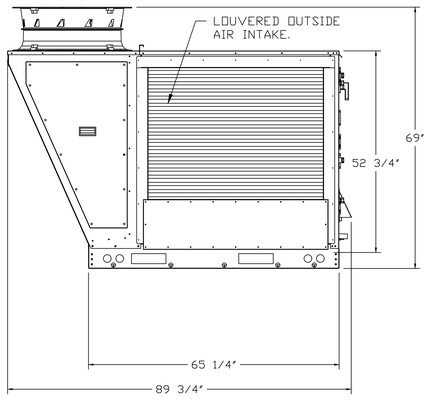
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

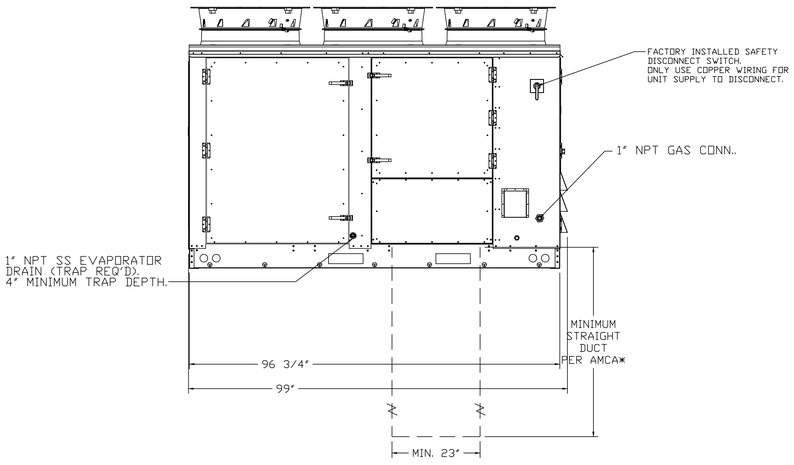
***NOTE: THIS UNIT IS INTENDED TO SERVE IN PLACE OF THE KITCHEN HVAC ROOF TOP UNIT (RTU) IN ADDITION TO PROVIDING APPROPRIATE MAKE-UP AIR FOR THE KITCHEN HOOD(S). RTU AND ASSOCIATED DUCTWORK SHALL BE REMOVED FROM SCOPE UNLESS REQUIRED FOR INTERNAL LOAD ESTIMATES. FINAL DESIGN SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.**

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED SUPPLY STRAIGHT DUCT SIZE IS 23" x 39".





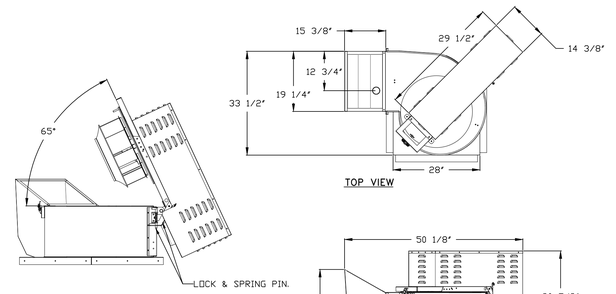




EXHAUST FAN INFORMATION - JOB#8381394

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	AH-RE18DD	ADVANCED HOOD	2152	1.000	1251	ODP	2.000	1.0790	3	208	5.9	1248 FPM	286	16.4

FAN #1 AH-RE18DD - EXHAUST FAN



FEATURES:

- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL762 AND ULC-S645.
- HIGH HEAT OPERATION DIRECT DRIVE 300°F (149°C).
- HEAT SLINGER.
- GREASE CLASSIFICATION TESTING.
- TILT OUT WHEEL.
- LOCKING PIN FOR POWER PACK.
- MOTOR WEATHER COVER.
- INTERLOCKED DISCONNECT SWITCH.
- NEMA 4X SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

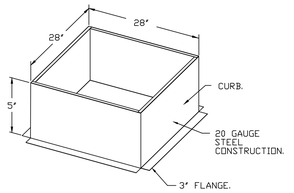
ABNORMAL FLARE-UP TEST BELT & DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
- UTILITY SET GREASE CUP.
- RE18 - DISCHARGE EXTENSION ASSEMBLY WITH HARDWARE.
- 2 YEAR PARTS WARRANTY.

AIR BALANCE SCHEDULE

	EXHAUST	SUPPLY
EXHAUST HOOD	2152 CFM	
DOAS		2550 CFM
BATHROOM	160 CFM	
OVERALL BALANCE		238 CFM

CURB #1 CRB28X5E



MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

APPROVED 2-23-2024 IWC INSPECTION WEST CARTER & ASSOCIATES

STATE OF MISSOURI WALTER E. WOOD NUMBER PE-2017022072 PROFESSIONAL ENGINEER
VALID UNTIL 12-31-2025
02-23-2024

FOR QUESTIONS, CALL THE
Advanced Hoods Systems, LLC
REGION 140
PHONE: 407-269-4813
EMAIL: scott@advancedhoodsystems.com

RELEASE FOR CONSTRUCTION
AS NOTED - COMMENTS REVIEW
DEPARTMENT SERVICES
LEES SUMMIT MISSOURI
02/12/2026 11:19:19

REVISIONS
DESCRIPTION DATE

ADVANCED HOOD SYSTEMS
Advanced Hoods Systems, LLC
. FL PHONE: FAX: 9782275974 EMAIL: justin@advancedhoodsystems.com

SLIDERS

DATE:
DWG.#:
DRAWN BY:
SCALE:
MASTER DRAWING

SHEET NO.
2

RELEASE FOR CONSTRUCTION
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DOCUMENT SERVICES
LEE'S SUMMIT MISSOURI
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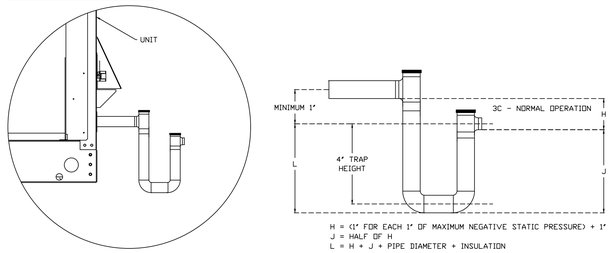
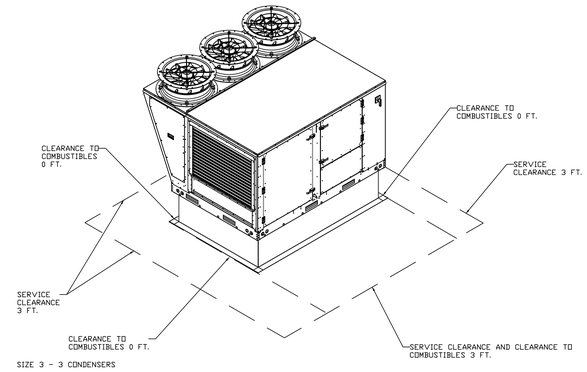
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	UTILITY SET GREASE CUP
		1	RE18 - DISCHARGE EXTENSION ASSEMBLY WITH HARDWARE
		1	2 YEAR PARTS WARRANTY
2		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	COOLING OVERRIDE
		1	RTU BLOWER DOOR SWITCH
		1	RTU3 DOWN DISCHARGE
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	TOTAL CFM MONITORING
		1	SPECIAL ORIFICES FOR IF HEATERS ABOVE 2,000'
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	OCCUPIED SCHEDULING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	120V FIRE INPUT
		1	RTU3 HAIL GUARD
		1	RTU3 NO RETURN - 100% OA
		1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE
		1	BLOWER STOP DELAY. ALLOWS RESIDUAL HEAT TO BE TRANSFERRED INTO THE SUPPLY AIR AFTER HEATING HAS STOPPED. FACTORY SET AT: 90 SECS FOR 1BT, 30 SECS FOR DF
		1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (571 VFD INCLUDED)
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	17.5 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	LOW AMBIENT COOLING OPERATION - DOWN TO 0F AMBIENT
		1	R454B LEAK DETECTOR OPTION FOR RTUS
		1	17.5 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

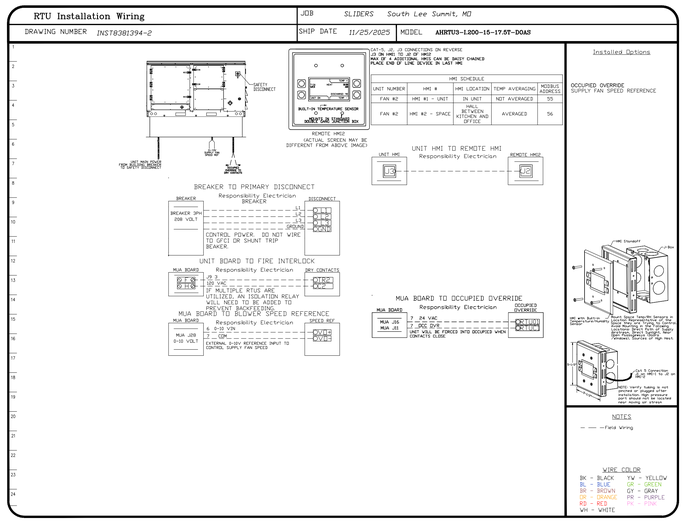
HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #2	HMI #2 - SPACE	HALL BETWEEN KITCHEN AND OFFICE	AVERAGED	56

RTU CONDENSATE DRAIN TRAP DETAIL





SIZE 3 - 3 CONDENSERS



DOAS/RTU FAN SCHEDULE - JOB#8381394

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	TOTAL CFM	MAX OUTSIDE AIR CFM	RETURN AIR CFM	WEIGHT (LBS)	ESP	ELECTRICAL INFORMATION HP	PHASE	VOLT	MCA	MOCP	COOLING INFORMATION OUTSIDE AIR DB	OUTSIDE AIR WB	LEAVING AIR DB	LEAVING AIR WB	LEAVING AIR DP	CAPACITY TOTAL	CAPACITY SENS.	IEER	ISMRE2	REHEAT INFORMATION DISCHARGE DB	DISCHARGE WB	CAPACITY DESIRED	CAPACITY MAX	MOISTURE REMOVAL RATE	GAS HEAT INFORMATION GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	A2L MINIMUM ROOM VOLUME ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES
2		1	AHRTU3-1.200-15-17.5T-DOAS	ADVANCED HOOD	15P-3	2550	2550	0	2556	0.500	2.00	3	208	74.2A	80A	89.8°F	77.1°F	48.0°F	48.0°F	48.0°F	224.1 MBH	102.6 MBH	18.2	8.0	70.0°F	56.8°F	57.6 MBH	113.4 MBH	111.7 LBS/HR	NATURAL	183616	148729	55°F	7 IN. W.C. - 14 IN. W.C.	618.5	1031	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. 15 DEGREE LOW AMBIENT OPERATION
15. HAIL GUARD FOR CONDENSING COIL
16. DOWN DISCHARGE/NO RETURN
17. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.
18. SCCR RATING OF 10kAMP

CAPTIVEAIRE TO COMMISSION THE HVAC UNITS AND THEIR MECHANICAL SUB TO T&B.

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

APPROVED 12-23-2024 HWC KNOWLEDGE INTEGRITY WEATHER CARTER & ASSOCIATES

STATE OF MISSOURI WALTER E. WOOD NUMBER PE-2017022073 PROFESSIONAL ENGINEER
VALID
12-23-2024

FOR QUESTIONS, CALL THE
Advanced Hoods Systems, LLC
REGION 140
PHONE: 407-269-4813
EMAIL: scott@advancedhoodsystems.com

ADVANCED HOOD SYSTEMS
Advanced Hoods Systems, LLC
FL PHONE: FAX: 9198275974 EMAIL: justin@advancedhoodsystems.com

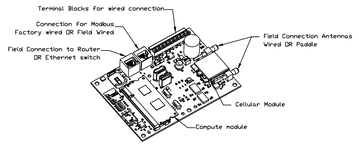
SLIDERS

DATE:
DWG.#:
DRAWN BY:
SCALE:
MASTER DRAWING

SHEET NO. 3

ELECTRICAL PACKAGE – JOB#8381394

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EXHAUST	3	2.000	208	5.9
				HOOD # 1	1 FAN		SUPPLY	3	2.000	208	6.1



CASlink Monitor and Control

– Hood control panel to support communications to cloud-based Building Management System.
– Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
– Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
– Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

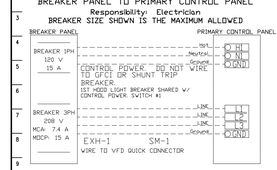
DCV Packages	*Function*
Room Temperature	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Fan Speed	*MONITOR*
Fan Amperage	*MONITOR*
Fan Power	*MONITOR*
VFD Faults	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Prep Time Button	*MONITOR & CONTROL*
Fans Button	*MONITOR & CONTROL*
Lights Button	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

SC Packages	*Function*
Room Temperature(s)	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Fans Button(s)	*MONITOR & CONTROL*
Lights Button(s)	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

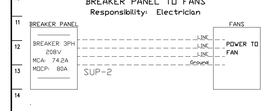
JOB NO 8381394 | MODEL NUMBER SC-311110MA | JOB NAME SLIDERS South Lee Summit, M… | DRAWN BY | DATE 11/25/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Fanta1 On/Off Thermostatically Controlled. Room temperature sensor shipped loose for Field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

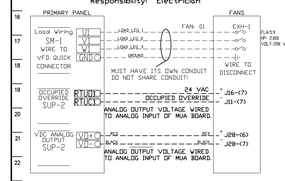
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



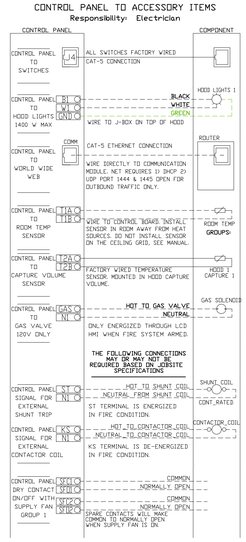
BREAKER PANEL TO FANS
Responsibility: Electrician

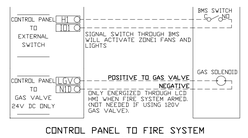


CONTROL PANEL TO FANS
Responsibility: Electrician

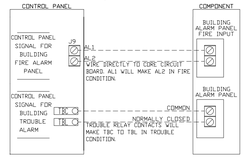


CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician

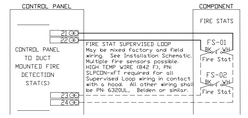




CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR

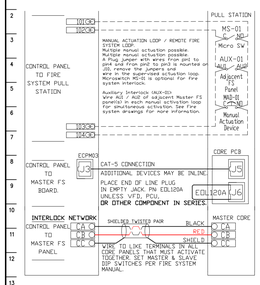


CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



JOB NO 8381394 | MODEL NUMBER SC-311110MA | JOB NAME SLIDERS South Lee Summit, M… | DRAWN BY | DATE 11/25/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Fanta1 On/Off Thermostatically Controlled. Room temperature sensor shipped loose for Field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.



JOB NO 8381394 | MODEL NUMBER SC-311110MA | JOB NAME SLIDERS South Lee Summit, M… | DRAWN BY | DATE 11/25/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 42/43. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.

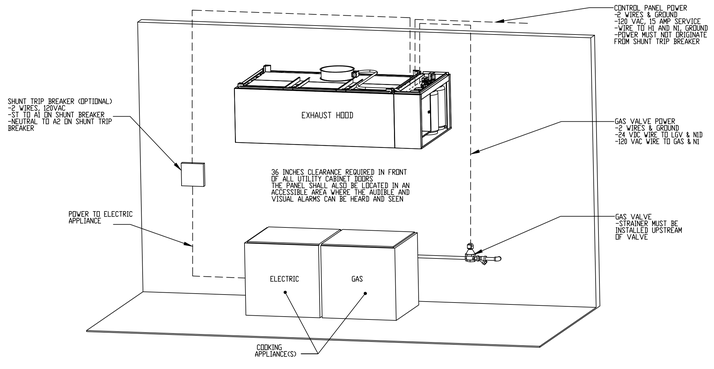
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

ELECTRICIAN
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

FS-1: MASTER

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL A1 & A2	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 8381394 | MODEL NUMBER SC-311110MA | JOB NAME SLIDERS South Lee Summit, M… | DRAWN BY | DATE 11/25/2025 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-4

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 42/43. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.

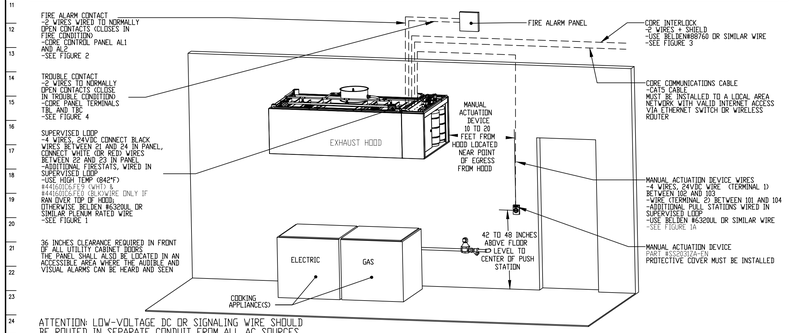
TANK PROTECTION LOW-VOLTAGE DETAIL

10/01/2023 Rev. 3

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), *REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST
*REMOTE FIRESTAT(S) MAYBE BE REQUIRED DEPENDING ON THE DUCT LAYOUT AND HOOD TEMPERATURE RATING. REFERENCE MANUAL FOR LOCATION AND GUIDELINES.

FS-1: MASTER

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER EXTENSION ST-65318
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP (842°F) #4416GIDGSFE9 (WHT) & #4416GIDGSFE0 (SILICONIZE OR SIMILAR ONLY IF RAN OF HOOD). OTHERWISE BELDEN 86302UL OR SIMILAR PLENUM RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) CA, TO CORE SYSTEM (2) CA. CORE SYSTEM (1) CB, TO CORE SYSTEM (2) CB. CORE SYSTEM (1) CC, TO CORE SYSTEM (2) CC. USE BELDEN# 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

RELEASE FOR CONSTRUCTION
AS NOTED - COMMENTS REVIEW
DEPARTMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:19:19

REVISIONS
DESCRIPTION

Advanced Hoods Systems, LLC
. FL PHONE: FAX: 9782275974 EMAIL: justin@advancedhoodsystems.com

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

APPROVED 12-23-2024 IWC STEVEN CARTER & ASSOCIATES

STATE OF MISSOURI WALTER E. WOOD NUMBER PE-2007023973 PROFESSIONAL ENGINEER
VALID
12-23-24

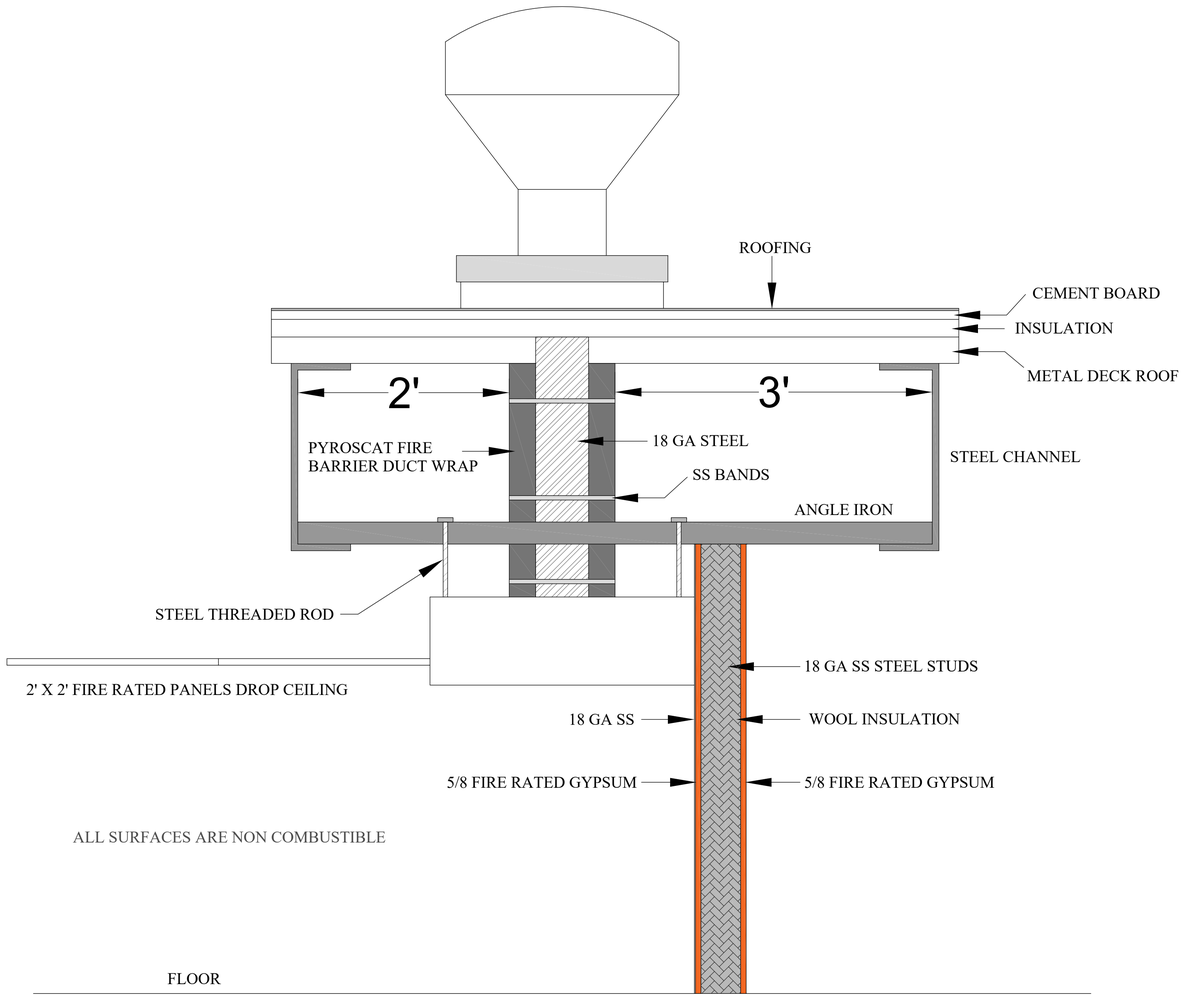
FOR QUESTIONS, CALL THE
Advanced Hoods Systems, LLC
REGION 140
PHONE: 407-269-4813
EMAIL: scott@advancedhoodsystems.com

SLIDERS

DATE:
DWG.#:
DRAWN BY:
SCALE:
MASTER DRAWING

SHEET NO.
4

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:19



FIREWALL CONSTRUCTED TO UL DESIGN NO. W440

PYROSCAT DUCT WRAP IS A FLEXIBLE, LIGHTWEIGHT FIRE BARRIER SYSTEM DESIGNED TO PROVIDE ONE AND TWO HOUR RATED FIRE PROTECTION AND ZERO CLEARANCE TO COMBUSTIBLE PROTECTION IN GREASE AND AIR DUCT APPLICATION. PYROSCAT DUCT WRAP HAS BEEN TESTED AT UNDERWRITERS LABORATORIES® AND MEETS REQUIREMENTS OF UL UUET CLASSIFICATION FOR GREASE DUCT ENCLOSURES AND ULC GREASE AND VENTILATIONN DUCT ISULATION UNDER FILES FRD-6 AND FRD-7. UL YYET CLASSIFICATION REQUIRES THAT THE SYSTEM MEET THE FOLLOWING:

1. EXTERNAL FULL SCALE FIRE TEST FOR 1 AND/OR 2 HR FIRE RESISTANCE DUCT ENCLOSURE AND THROUGHPENETRATION PER UL 263 (ASTM E-119)/ UL 1479 (ATM E-814) WITH HOSE STREAM.
2. MINIMUM TEMPERATURE RISE STANDARDS DURING THE 2000° F ABNORMAL TEMPERATURE TEST PER "UL SUBJECT 1978 PROPOSED FIRST EDITION OF THE STANDARD FOR GREASE DUCTS".
3. SURFACE BURNING CHARACTERISTICS PER UL 723 (ASTM E-84) WITH FSI NOT OVER 25 AND SDI NOT OVER 50.

NOMINAL THICKNESS: 1 1/2"
NOMINAL DENSITY: 6LB/FT3

PYROSCAT DUCT WRAP IS CLASSIFIED IN TWO PRODUCT TYPES. PYROSCAT FP DUCT WRAP INCORPORATES FIRE PROTECTION GRADE CERAMIC FIBER BLANKET MANUFACTURED FROM INORGANIC OXIDES TO FORM A SUPER STRONG, FLEXIBLE, LIGHTWEIGHT PRODUCT THAT IS INHERENTLY FIRE RESISTANT. PYROSCAT CSM DUCT WRAP IS AN ALKALINE EARTH SILICATE(AES) PRODUCT MADE FROM CALCIA, SILICA, AND MAGNESIA RAW MATERIALS.

PYROSCAT DUCT WRAP MATERIALS ARE AVAILABLE IN THREE GRADES - F0 (UNFACED), F1 (FOIL FACING ONE SIDE), AND F2E (TOTALLY ENCAPSULATED). ALL PYROSCAT PRODUCTS ARE MANUFACTURED IN AN ISO 9002 CERTIFIED FACILITY TO CLOSE TOLERANCES PER UL® FOLLOW-UP PROCEDURES TO ENSURE THE HIGHEST QUALITY FINISHED PRODUCTS FOR FIRE CRITICAL APPLICATIONS.
WHEN COMPARED TO OTHER WRAP SYSTEMS, PYROSCAT DUCT WRAP EXHIBITS GREATER PHYSICAL STRENGTH - PLUS IN THE CASE OF THE FOIL FACED GRADES (F1/F2E) THE ALUMINUM FOIL/SCRIM IS BONDED DIRECTLY TO THE FIBER BLANKET. THIS GIVES INSTALLERS A MORE RUGGED, EASIER TO HANDLE, AND FASTER TO INSTALL WRAP.

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

APPROVED
12-23-2024
IIWC
INTERNATIONAL INSTITUTE OF BUILDING TECHNOLOGY
WERNER, CARTER & ASSOCIATES

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

REVISION/UPLOAD DATE

REV.	DATE	DESCRIPTION

LAST DESIGN BULLETIN

smalls SLIDERS

DATE ISSUED:

VALIANT EQUIPMENT, LLC
15 WEST TOWER CIRCLE ORMOND BEACH, FL 32174
(386) 677-4006

DRAWN BY:
CHECKED BY:

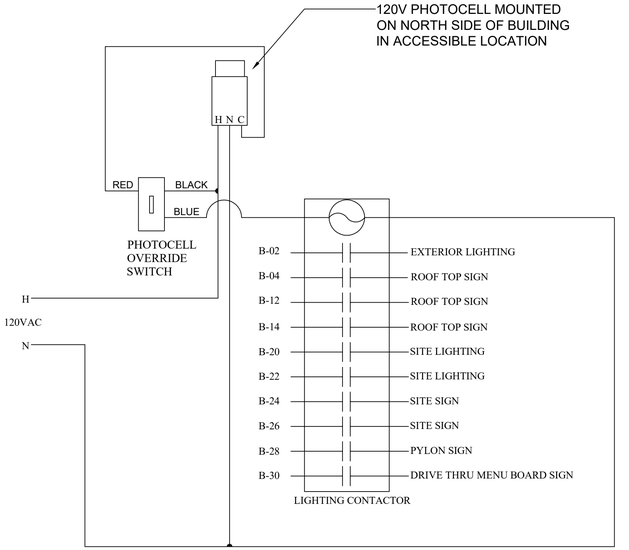
Third Party: IIWC & Assc. Inc.
2627 SouthMyrtle Ave.
Clearwater, FL 34616
(717)-584-8151

Project #

DRAWING NUMBER:
FIRE WALL

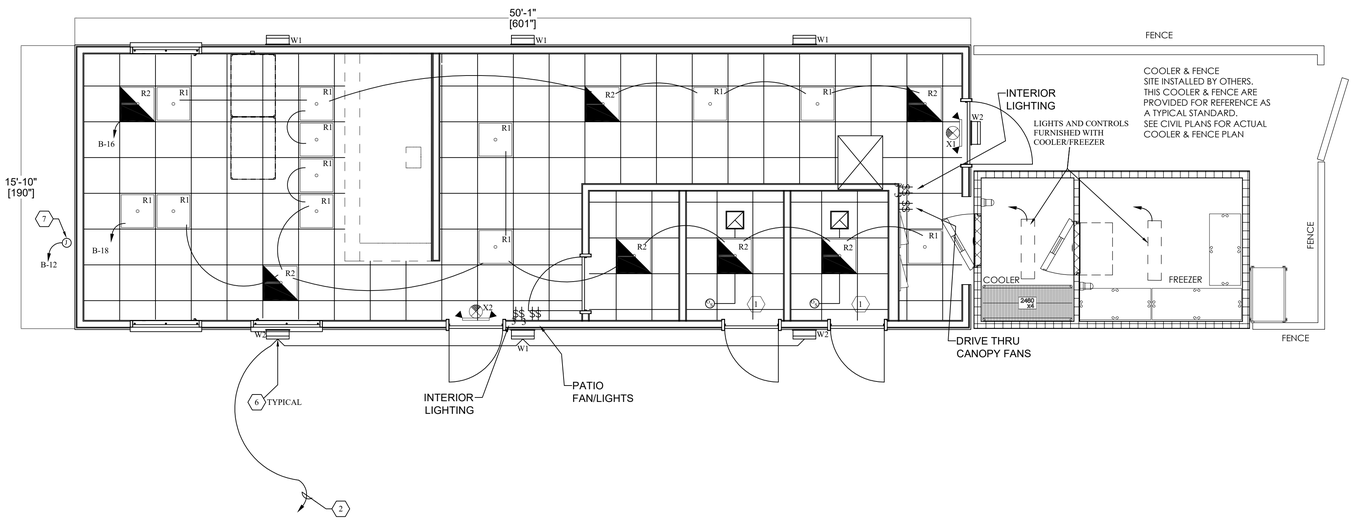
LIGHT FIXTURE SCHEDULE AS SHOWN OR EQUIVALENT

FIXTURE ID	DESCRIPTION	LAMP TYPE	LAMP QTY	WATTS	ADDITIONAL INFORMATION
W1	EXTERIOR WALL PACK - RZ LIGHTING WP10-30L-D-30 , 120V, 3000K	LED	4	30	
W2	EXTERIOR EMERGENCY BACKUP - RAB WPLED26Y/E, 120V, 3000K	LED	3	26	
X1	EMERGENCY EXIT SIGN - HUBBELL CE SERIES, 120V	LED	1	-	
X2	EMERGENCY EXIT SIGN W/ EMERGENCY FLOOD LIGHT - HUBBELL CC SERIES, 120V	LED	1	-	
R1	INTERIOR 2' X 2' ADJUSTABLE PANEL LIGHT - RZ LIGHTING ILPNLDPHYZXZWTCCT, 120V, 5000K	LED	12	40	
R2	INTERIOR 2' X 2' ADJUSTABLE EMERGENCY PANEL LIGHT - RZ LIGHTING ILPNLDPHYZXZWTCCT, 120V, 5000K, POWER PACK FOR BACKUP	LED	7	40	



EXTERIOR LIGHTING CONTROL WIRING DIAGRAM

N.T.S A



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

GENERAL NOTES

1. "EM" UNITS SHALL BE FOR OPERATION ON 120 VOLT SINGLE PHASE WITH NUMBER OF HEADS AS INDICATED ON THE PLAN. UNITS SHALL BE PLUG-IN TYPE WITH SEALED PURE LEAD BATTERIES. THE CHARGER SHALL BE COMPLETE AUTOMATIC, SOLID STATE TYPE CAPABLE OF FULLY RECHARGING DISCHARGED BATTERY IN 24 HRS. TRANSFER DEVICE SHALL AUTOMATICALLY SWITCH LOAD ON AT POWER FAILURE AND OFF ON RETURN OF NORMAL POWER. UNITS SHALL HAVE LOW VOLTAGE DISCONNECT FEATURE. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
2. ALL CIRCUITS SHALL HAVE AN INDIVIDUAL NEUTRAL CONDUCTOR. NO SHARED NEUTRALS ARE PERMITTED.
3. UPON COMPLETION OF ALL WORK (INCLUDES WORK BY OTHERS). PROVIDE ALL STAINLESS STEEL COVER PLATES, INCLUDING BLANKS AND THOSE REQUIRED FOR DATA CABLES.

LIGHTING PLAN CODED NOTES (#)

1. PROVIDE FINAL CONNECTION FOR CEILING MOUNTED EXHAUST FAN. FAN TO BE CONTROLLED BY ROOM LIGHT CONTROL.
2. SEE SITE PLAN FOR LOCATION AND QUANTITY OF SITE POLES. REFER TO DETAIL A/E1.1 FOR CONTROLS.
3. WIRE ALL EXIT LIGHTS AND EMERGENCY LIGHTS AHEAD OF LOCAL SWITCH AS SHOWN.
4. SITE ELECTRICAL CONTRACTOR TO CONNECT TO LINE VOLTAGE WHIP OF LED TRANSFORMER. LED FIXTURES, TRANSFORMERS AND ALL LOW VOLTAGE WIRING SHALL BE FURNISHED AND INSTALLED BY LED INSTALLER.
5. HOOD MOUNTED SWITCHES BY HOOD MANUFACTURE. ELECTRICAL CONTRACTOR SHALL INSTALL WIRING AS NECESSARY TO SWITCHES AND HOOD LIGHTING TO MAKE FULLY FUNCTIONAL.
6. SITE ELECTRICAL CONTRACTOR SHALL CENTER FIXTURE AND MOUNT IN WHITE TILE. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION. TYPICAL OF ALL 'W1' FIXTURES.
7. SITE ELECTRICAL CONTRACTOR SHALL WIRE EXTERIOR ILLUMINATED BUILDING MOUNTED SIGN.
8. SEE SITE PLAN FOR LOCATION AND QUANTITY OF SITE DIRECTIONAL SIGNS AND PYLON SIGNS. REFER TO DETAIL A/E1.1 FOR CONTROLS.
9. SEE SITE PLAN FOR LOCATION OF DRIVE THRU MENU BOARD AND SIGN. REFER TO DETAIL A/E.1 FOR CONTROLS.

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

ELECTRICAL SYMBOLS

NOTE: ALL MOUNTING HEIGHTS SHALL BE AS INDICATED, UNLESS NOTED OTHERWISE. ALL MOUNTING HEIGHTS FOR KITCHEN EQUIPMENT SHALL BE AS INDICATED ON THE KITCHEN EQUIPMENT WIRING SCHEDULE, SHEET E3.

- CEILING MOUNTED OCCUPANCY SEE DETAIL 3/E1.1. SENSOR: HUBBELL #ATP600C.
- WALL MOUNTED PUSH BUTTON @ 48"
- PHOTO/IONIZATION DETECTOR-DUCT MOUNTED
- REMOTE ANNUNCIATOR/TEST STATION @ 60"
- SINGLE PHASE MOTOR
- THREE PHASE MOTOR
- 120 VOLT SIMPLEX RECEPTACLE @ 16"
- 120 VOLT DUPLEX RECEPTACLE @ 16"
WP = WEATHERPROOF
GFI = GROUND FAULT INTERRUPTER
IG = ISOLATED GROUND
- 120 VOLT DOUBLE DUPLEX (QUAD) RECEPTACLE @ 16"
- 120 VOLT SIMPLEX CEILING MOUNTED RECEPTACLE
- 120 VOLT DOUBLE DUPLEX CEILING MOUNTED RECEPTACLE
- DATA/TELEPHONE OUTLET BOX @ 16"
- DATA OUTLET BOX @ 16"
- TELEPHONE OUTLET BOX @ 16"
- 208V OR 120/208V RECEPTACLE @16"
- JUNCTION OR PULL BOX
- EQUIPMENT DISCONNECT SWITCH @ 60"
- LIGHTING/POWER PANELBOARD TOP BREAKER @ 72"

- CEILING MOUNTED SURFACE/RECESSED LIGHTING FIXTURE.
- WALL MOUNTED EXTERIOR LIGHTING FIXTURE.
- CEILING MOUNTED RECESSED LIGHTING FIXTURE 2'X4'.
- CEILING MOUNTED RECESSED LIGHTING FIXTURE 2'X2'.
- CEILING MOUNTED SURFACE/RECESSED LIGHTING FIXTURE 1'X4'.
- CEILING MOUNTED SURFACE/RECESSED LIGHTING FIXTURE, TYPE AS INDICATED. EMERGANCY LIGHT.
- CEILING MOUNTED SURFACE/RECESSED LIGHTING FIXTURE, TYPE AS INDICATED. EMERGANCY LIGHT.
- CEILING MOUNTED SURFACE/RECESSED LIGHTING FIXTURE, TYPE AS INDICATED. EMERGANCY LIGHT.
- WALL/CEILING MOUNTED COMBINATION EMERGENCY LIGHTING / EXIT SIGN FIXTURE-BATTERY TYPE. SHADED QUADRANT INDICATES ILLUMINATED FACE, ARROW INDICATES "DIRECTIONAL ARROW" POSITION(S).
- REMOTE MOUNTED EMERGENCY LIGHTING FIXTURE.
- POLE MOUNTED LIGHTING FIXTURE
- $_2$ $_a$ WALL SWITCH, NUMBER INDICATES 2, 3, OR 4 POLE. LETTER INDICATES FIXTURE(S) TO BE CONTROLLED BY SWITCH @ 48"
- PP1-1,3,5 CIRCUIT RUN TO PANELBOARD DESIGNATION.
INDICATES CIRCUIT NUMBERS .
INDICATES PANEL DESIGNATION.
- CIRCUIT RUN TO PANELBOARD NUMBER OF ARROWS INDICATE QUANTITY OF CIRCUITS.
- CONDUIT RUNS ABOVE GRADE.
- CONDUIT RUN BELOW GRADE OR IN CONCRETE SLAB.
- CONDUIT RISE
- CONDUIT DROP
- UNSWITCHED LEG
- SWITCHED LEG

RELEASE FOR CONSTRUCTION
AS NOTED OR MARKED BY DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
Top 12/22/2025 11:13:20

REV	DATE	DESCRIPTION
R2	1/15/24	WIDTH GREW 2"
R2	1/15/24	INTERIOR LIGHT SWITCH @ REAR

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2010022073
PROFESSIONAL ENGINEER
VALID 12-31-2026
02-23-2-024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, FL 34616
(717)-584-8151

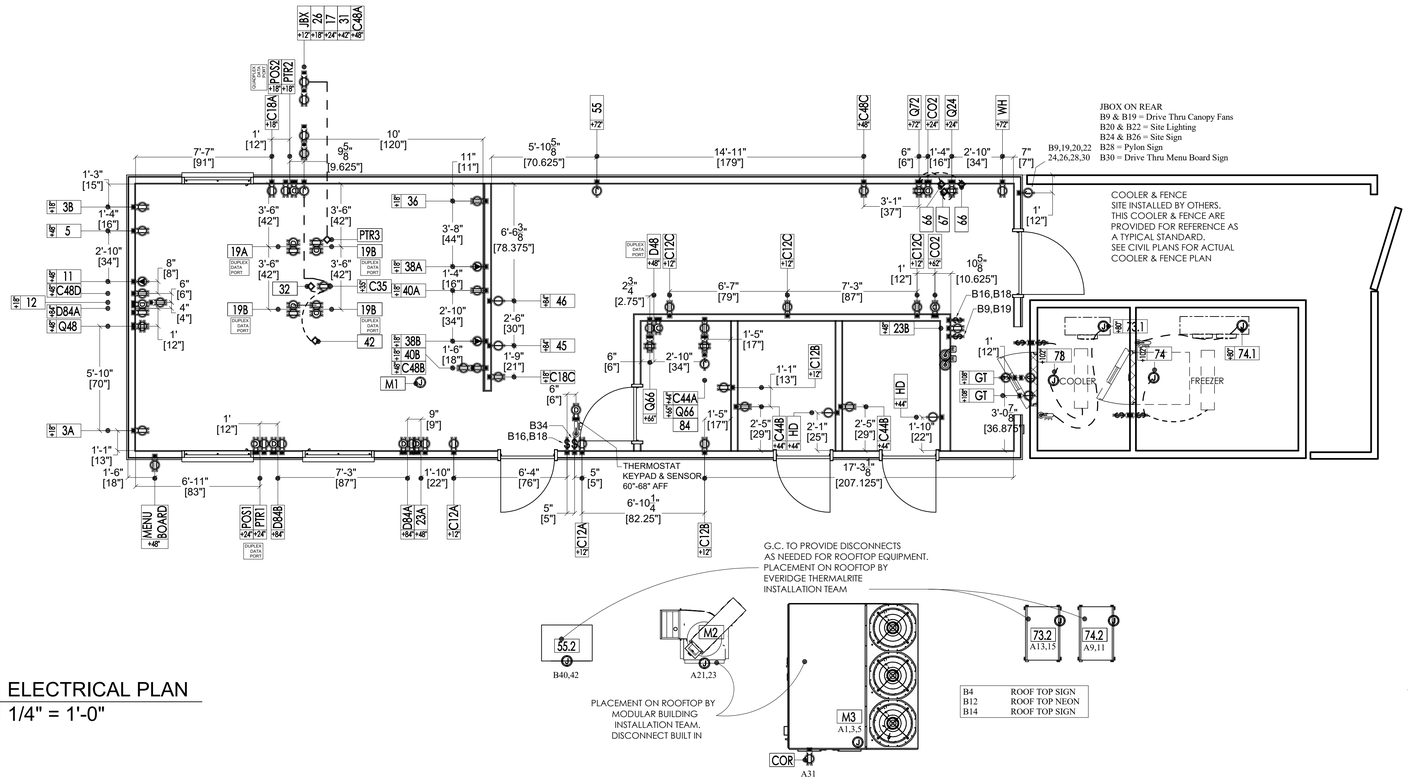
APPROVED 2-23-2024 HWC HERBERT WILLIAM CARTER & ASSOCIATES INC

SHEET NAME
LIGHTING PLAN

SHEET NUMBER
E1.1

ELECTRICAL LEGEND

Plan	Elevation	Description	
		120V Dedicated; Single, Duplex & Quadplex Outlet	
		120V Duplex Drop Cord	
		120V Duplex & Quadplex Floor Outlet	
		High Voltage Outlet 208-480V	
J	J	J-Box Fixture Mounted & Wall Mounted	
D	D	Data Point	
D	D	Duplex Data Point	
D	D	Quad Data Point	
E	E	Electrical Stub-Up	
		Electrical Connection Point	
		Fire Pull Station	To Be Verified By Fire Inspector
$	$	Light Switch	
L	L	Light Fixture	
		Electrical Disconnect Point	
		Thermostat	
B	B	Blower Fixture Mounted	
A	A	Alarm Connection Point	
		Electrical Lines	



1 ELECTRICAL PLAN
1/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS DATED 02/12/2026
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
MO. DATE DESCRIPTION
02/12/2026 11:13:20

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

SHEET NAME

ELECTRICAL POWER PLAN

SHEET NUMBER

E2.1

Electrical Schedule

Item Number	Circuit Number	Count	Equipment Description	Connection Description	FL Amp	Watts	HP	Volts	Phase	Conn Plug	Elec RI Height	Electrical Remarks
3A	A30	1	Soda Dispenser - Patio	Duplex Outlet	10.0 A			120 V	1	5-15P	18"	E.C. To Verify Loads w/ Vendor Supplied Equipment
3B	A36	1	Soda Dispenser - Drive Thru	Duplex Outlet	10.0 A			120 V	1	5-15P	18"	E.C. To Verify Loads w/ Vendor Supplied Equipment
5	B41	1	Tea Brewer	Duplex Outlet	14.0 A			120 V	1	5-15P	48"	By Owner-Verify w/ Owner
11	A2,A4	1	Shake Machine	High Voltage Outlet	12.0 A	2496 W	1/2	208 V	1	L6-15P	48"	Verify plug connection w/ Vendor
12	A39	1	Refrigerator, Undercounter	Duplex Outlet	3.0 A	345 W	1/5	115 V	1	5-15P	18"	
17	B17	1	Warmer	Duplex Outlet	8.3 A	1000 W		120 V	1	5-15P	24"	3+WIRE
19A	A35	1	Kitchen Display System - Drive Thru/Ceiling	Duplex Outlet & Data				120 V	1	5-20P		By Owner - Verify w/ Owner, Data required
19B	B3	3	Kitchen Display System - Ceiling	Duplex Outlet & Data				120 V	1	5-20P		By Owner - Verify w/ Owner, Data required
23A	B35	1	Phone - Front	Duplex Outlet & Data				120 V	1	5-15P	48"	By Owner - Verify w/ Owner
23B	B25	1	Phone - Rear	Duplex Outlet				120V	1	5-15P	48"	By Owner - Verify w/ Owner
26	B31	1	Freezer, Worktop	Duplex Outlet	3.6 A	414 W	1/5	115 V	1	5-15P	18"	
31	B15	1	Hot Food Holding Station	Duplex Outlet	15.1 A	1820 W		120 V	1	5-20P	42"	
32	B23	1	Food Pan Warmer	Power Connection	4.2 A	500 W		120 V	1	5-15P		Plug into work table outlet
36	A8	1	Fryers	Duplex Outlet	6.0 A			120 V	1	5-15P	18"	
38A	A46,A48,A50	1	2 Platen Electric Double-Sided Grill - Fryer Side	High Voltage Outlet	48.0 A	16800 W		208 V	3	15-60P	18"	
38B	A38,A40,A42	1	2 Platen Electric Double-Sided Grill	High Voltage Outlet	48.0 A	16800 W		208 V	3	15-60P	18"	
40A	A16	1	Refrigerated Prep Table - Fryer Side	Duplex Outlet	3.0 A	345 W		115 V	1	5-15P	18"	
40B	A12	1	Refrigerated Prep Table	Duplex Outlet	3.0 A	345 W		115 V	1	5-15P	18"	
42	B23	1	Toaster, Vertical	Power Connection	13.0 A	1500 W		120 V	1	5-15P		Plug into work table outlet
45	A43	1	Freezer, Reach-In	Dedicated Outlet	8.5 A	973 W		115 V	1	5-15P	84"	
46	A41	1	Refrigerator, Reach-In	Dedicated Outlet	5.0 A	575 W		115 V	1	5-15P	84"	
55	B36	1	Ice Cube Machine, Remote w/ 50' Line Set	JBox	2.9 A	334 W		115 V	1	Direct	72"	
55.2	B40,B42	1	Icemaker Condenser, Remote	JBox	15.0 A	3120 W		208 V	1	Direct		208-230V/60/1
66	A51	2	Soda Carbonator	Power Connection	7.0 A		1/3	120 V	1	5-20P		By Vendor - verify requirements
67	B13	2	BIB Rack	Power Connection				120 V	1	5-15P		By Vendor - Verify w/ Vendor
73	A37	1	Walk-In Cooler	JBox		61 W		120 V	1	Direct	102"	See Shop Drawings
73.1	A37	1	Evaporator Coil (Refrigerator), Walk-In	JBox	0.8 A	92 W		115 V	1	Direct	80"	See Shop Drawings
73.2	A13,A15	1	Cooler Condenser, Walk-In	JBox	5.9 A	1227 W		208 V	1	Direct		See Shop Drawings
74	A37	1	Walk-In Freezer	JBox		61 W		120 V	1	Direct	102"	See Shop Drawings
74.1	A17,A19	1	Evaporator Coil (Freezer)	JBox	10.8 A	2246 W		208 V	1	Direct	80"	See Shop Drawings
74.2	A9,A11	1	Freezer Condenser	JBox	12.4 A	2587 W		208 V	1	Direct		See Shop Drawings
84	-	1	Networking Box	JBox						Direct		Data, By Vendor - Verify w/ Vendor

Electrical Schedule

Item Number	Circuit Number	Count	Equipment Description	Connection Description	FL Amp	Watts	HP	Volts	Phase	Conn Plug	Elec RI Height	Electrical Remarks
C12A	B21	2	Duplex Convenience Outlet - Front Door	Duplex Outlet				120 V	1	5-20R	12"	By EC
C12B	B1	2	Duplex Convenience Outlet - Office	Duplex Outlet				120 V	1	5-20R	12"	By EC
C12C	A45	3	Duplex Convenience Outlet - Rear	Duplex Outlet				120 V	1	5-20R	12"	By EC
C18A	B29	1	Duplex Convenience Outlet - Drive Thru	Duplex Outlet				120 V	1	5-20R	18"	By EC
C18C	A33	1	Duplex Convenience Outlet - Rear Hood	Duplex Outlet				120 V	1	5-20R	18"	By EC
C35	-	1	Duplex Convenience Outlet - Work Table	Duplex Outlet				120 V	1	5-20R	35"	By EC
C44A	B1	1	Duplex Convenience Outlet - Office	Duplex Outlet				120 V	1	5-20R	44"	By EC
C44B	B37	2	Duplex Convenience Outlet - Bathrooms	Duplex Outlet				120 V	1	5-20R	44"	By EC
C48A	B33	1	Duplex Convenience Outlet - Drive Thru	Duplex Outlet				120 V	1	5-20R	48"	By EC
C48B	A12	1	Duplex Convenience Outlet - Hood	Duplex Outlet				120 V	1	5-20R	18"	By EC
C48C	A47	1	Duplex Convenience Outlet - Rear	Duplex Outlet				120 V	1	5-20R	48"	By EC
C48D	A39	1	Duplex Convenience Outlet - Front	Duplex Outlet				120 V	1	5-20R	48"	By EC
CO2	-	2	Data Outlet - CO2 Sensor	Data						Data	24",62"	By EC
COR	A31	1	Duplex Convenience Outlet - Roof	Duplex Outlet				120 V	1	5-20R		By EC
D48	B1	1	Duplex Convenience Outlet & Data - Office	Duplex Outlet & Data				120 V	1	5-20R	48"	By EC
D84A	B27	2	Duplex Convenience Outlet & Data - Front & Patio	Duplex Outlet & Data				120 V	1	5-15P	84"	By EC
D84B	A35	1	Duplex Convenience Outlet & Data - Patio	Duplex Outlet & Data				120 V	1	5-15P	48"	By EC
GT	A6	2	Grease Tank - Used Cooking Oil	JBox				120 V	1	Direct	108"	By EC
HD	A27	2	Hand Dryer - Bathrooms	JBox				120 V	1	Direct	44"	By EC
JBX	-	1	Extended MC Cable JBox	JBox				120 V	1	Direct	12"	By EC
M1	A7	1	Hood System Controls	JBox				120 V	1	Direct		See Shop Drawings
M2	A21,A23,A25	1	Exhaust Fan - Hood	JBox	5.9 A	2126 W	2.00	208 V	3	Direct		See Shop Drawings
M3	A1,A3,A5	1	Dedicated Outside Air System RTU	JBox	76.4 A	27524 W	2.00	208 V	3	Direct		See Shop Drawings
POS1	B5	1	POS - Patio	Pwr & Data				120 V	1	5-15P	24"	By Owner - Verify w/ Owner, Data required
POS2	B5	1	POS - Drive Thru	Pwr & Duplex Data				120 V	1	5-15P	18"	By Owner - Verify w/ Owner, Data required
PTR1	B5	1	PTR - Patio	Pwr & Data				120 V	1	5-15P	24"	By Owner - Verify w/ Owner, Data required
PTR2	B5	1	PTR - Drive Thru	Pwr & Duplex Data				120 V	1	5-15P	18"	By Owner - Verify w/ Owner, Data required
PTR3	B33	1	PTR - Work Table	Pwr Connection & Data				120 V	1	5-15P		By Owner - Verify w/ Owner, Data required
Q24	-	1	QCO - BIB Rack	Quadplex Outlet				120 V	1	5-15P	24"	By EC
Q48	A29	1	QCO - Front	Quadplex Outlet				120 V	1	5-15P	48"	By EC
Q66	B7	2	QCO - Office	Quadplex Outlet				120 V	1	5-15P	66"	By EC
Q72	-	1	QCO - Soda Carbonator	Quadplex Outlet				120 V	1	5-15P	72"	By EC
WH	B11	1	Water Heater	Duplex Outlet	4.0 A	98 W		120 V	1	5-15P	72"	By Vendor - Verify w/ Vendor

PANELBOARD SCHEDULE

PANEL: "A" | RATING: 600 AMP MCB W/ 200 AMP MLO SUB BREAKER | A.I.C.: 42KAIC | MOUNTING: SURFACE
LOCATION: REAR INTERIOR | SERVICE: 120/208V, 3ϕ, 4W | TYPE: SQ-D I LINE OR EQUAL | LUG LOCATION: TOP

-	-	200 AMP SUB PANEL	200	3	3/0	208		8854			-	-	-	-		-	-	-	-	-	-	-	-
-					3/0				12760		-	-		-		-	-	-	-	-	-	-	-
-					3/0					9932	-	-		-	-	-	-	-	-	-	-	-	-

CKT. NO.	EQUIPMENT #	DESCRIPTION	BKR AMP	POLE	WIRE NO.	VOLTS	KW	LEFT PHASE LOAD (VA) A	B	C	CKT. NO.	CKT. NO.	RIGHT PHASE LOAD (VA) A	B	C	KW	VOLTS	WIRE NO.	POLE	BKR AMP	DESCRIPTION	EQUIPMENT #	CKT. NO.
1			80		4			9174			1	2	1248							20			
3	M3	DOAS RTU (H)	80	3	4	208	27.5		9174		3	4		1248		2.5	208	12	2	20	(K) FROZEN BEVERAGE MACHINE	11	2
5			80		4					9174	5	6			1800	1.8	120	12	1	20	(O) GREASE TANK	GT	6
7	M1	HOOD SYSTEM CONTROLS (K)	15	1	12	120	1.4	1350			7	8	720			0.7	120	12	1	20	(K) FRYER	36	8
9			20		12				1294		9	10		-		-	-	-	-	-	SHUNT	-	10
11	74.2	WALK-IN FREEZER CONDENSER (K)	20	2	12	208	2.6			1294	11	12			705	0.7	120	12	1	20	(K) PREP FRIDGE, DUPLEX CONVENIENCE OUTLET - HOOD	40B, C48B	12
13	73.2	WALK-IN COOLER CONDENSER (K)	20	2	12	208	1.2	614			13	14	-			-	-	-	-	-	SHUNT	-	14
15			20		12				614		15	16		345		0.3	120	12	1	20	(K) PREP FRIDGE - FRYER SIDE	40A	16
17	74.1	EVAPORATOR COIL (FREEZER) (K)	20	2	12	208	2.2			1123	17	18			-	-	-	-	-	-	SHUNT	-	18
19			20		12			1123			19	20	-			-	120	-	1	20	SPARE	-	20
21			15		12				709		21	22		-		-	120	-	1	20	SPARE	-	22
23	M2	HOOD EXHAUST FAN (K)	15	3	12	208	2.1			709	23	24			-	-	120	-	1	20	SPARE	-	24
25			15		12			709			25	26	-			-	120	-	1	20	SPARE	-	26
27	HD	HAND DRYER - BATHROOM (O)	20	1	12	120	1.8		1800		27	28		-		-	120	-	1	20	SPARE	-	28
29	Q48	QUAD CONVENIENCE OUTLET - FRONT (R)	20	1	12	120	0.7			720	29	30			1200	1.2	120	12	1	20	(K) SODA DISPENSER - PATIO	3A	30
31	COR	DUPLEX CONVENIENCE OUTLET - ROOF (R)	20	1	12	120	0.4	360			31	32	-			-	120	-	1	20	SPARE	-	32
33	C18C	DUPLEX CONVENIENCE OUTLET - REAR HOOD (R)	20	1	12	120	0.4		360		33	34		-		-	120	-	1	20	SPARE	-	34
35	19A, D84B	KDS - DRIVE THRU, DUPLEX CONVENIENCE OUTLET - PATIO (K)	20	1	12	120	0.5			540	35	36			1200	1.2	120	12	1	20	(K) SODA DISPENSER - DRIVE THRU	3B	36
37	73, 74, 73.1	EVAPORATOR COIL (COOLER), WALK-IN (K)	20	1	12	120	0.2	214			37	38	5600					6		60			38
39	12, C48D	UNDERCOUNTER FRIDGE, DUPLEX CONVENIENCE OUTLET (K)	20	1	12	120	0.7		705		39	40		5600		16.8	208	6	3	60	(K) CLAMSHELL GRILL	38B	40
41	46	REACH-IN FRIDGE (K)	20	1	12	120	0.6			575	41	42			5600			6		60			42
43	45	REACH-IN FREEZER (K)	20	1	12	120	1.0	973			43	44	-			-	-	-	-	-	SHUNT	-	44
45	C12C	DUPLEX CONVENIENCE OUTLET - REAR (R)	20	1	12	120	1.1		1080		45	46		5600				6		60			46
47	C48C	DUPLEX CONVENIENCE OUTLET - REAR (R)	20	1	12	120	0.4			360	47	48			5600	16.8	208	6	3	60	(K) CLAMSHELL GRILL - FRYER SIDE	38A	48
49	-	SPARE	20	1	-	120	-	-			49	50	5600					6		60			50
51	Q72 (66)	SODA CARBONATOR (O)	20	1	12	120	1.6		1610		51	52		-		-	-	-	-	-	SHUNT	-	52
53	-	SPARE	20	1	-	120	-			-	53	54			-	-	120	-	1	20	SPARE	-	54
		SUBTOTAL						23371	30106	24427			13168	12793	16105								

TOTAL - VA	36539	42899	40532
TOTAL - AMPS	304	357	338
TOTAL PANEL - VA	119970		
TOTAL PANEL - AMPS	333		

PANEL BOARD SCHEDULE

PANEL: "B" | RATING: 200 AMP M LO | A.I.C.: 42KAIC | MOUNTING: SURFACE
LOCATION: REAR INTERIOR | SERVICE: 120/208V, 3ϕ, 4W | TYPE: SQ-D I LINE OR EQUAL | LUG LOCATION: TOP

CKT. NO.	EQUIPMENT #	DESCRIPTION	BKR AMP	POLE	WIRE NO.	VOLTS	KW	LEFT PHASE LOAD (VA) A	B	C	CKT. NO.	CKT. NO.	RIGHT PHASE LOAD A	B	C	KW	VOLTS	WIRE NO.	POLE	BKR AMP	DESCRIPTION	EQUIPMENT #	CKT. NO.
1	C12B, C44A, D48	DUPLEX CONVENIENCE OUTLET - OFFICE (R)	20	1	12	120	1.4	1440			1	2	500			0.5	120	12	1	20	(L) EXTERIOR LIGHTING (C)		2
3	19B	KDS - CEILING (K)	20	1	12	120	0.5		540		3	4		500		0.5	120	12	1	20	(L) ROOF TOP SIGN (C)		4
5	PTR1, PTR2, POS1, POS2	POS - DRIVE THRU & PATIO, PTR - DRIVE THRU & PATIO (K)	20	1	12	120	0.7			720	5	6			-	-	120	-	1	20	SPARE	-	6
7	Q66	QUAD CONVENIENCE OUTLET - OFFICE (R)	20	1	12	120	1.4	1440			7	8	-			-	120	-	1	20	SPARE	-	8
9	-	CANOPY FANS - DRIVE THRU (O)	20	1	12	120	1.8		1800		9	10		1440		1.4	120	12	1	20	(R) DUPLEX W/P OUTLET - EXTERIOR		10
11	WH	WATER HEATER (K)	20	1	12	120	0.1			98	11	12			500	0.5	120	12	1	20	(L) ROOF TOP SIGN (C)		12
13	Q24 (67)	BIB (BAG-IN-BOX) RACK (K)	20	1	12	120	0.4	360			13	14	500			0.5	120	12	1	20	(L) ROOF TOP SIGN (C)		14
15	31	HOT FOOD HOLDING STATION (K)	20	1	12	120	1.8		1820		15	16		500		0.5	120	12	1	20	(L) INTERIOR LIGHTING		16
17	17	WARMER (K)	20	1	12	120	1.0			1000	17	18		500		0.5	120	12	1	20	(L) INTERIOR LIGHTING		18
19	-	CANOPY FANS - DRIVE THRU (O)	20	1	12	120	1.8	1800			19	20	500			0.5	120	12	1	20	(L) SITE LIGHTING (C)		20
21	C12A	CONVENIENCE OUTLET - FRONT DOOR (R)	20	1	12	120	0.7		720		21	22		500		0.5	120	12	1	20	(L) SITE LIGHTING (C)		22
23	C35 (32 & 42)	FOOD PAN WARMER & VERTICAL TOASTER (K)	20	1	12	120	2.0			2000	23	24			500	0.5	120	12	1	20	(L) SITE SIGN (C)		24
25	23B	PHONE - REAR (K)	20	1	12	120	0.2	180			25	26	500			0.5	120	12	1	20	(L) SITE SIGN (C)		26
27	D84A	DUPLEX CONVENIENCE OUTLET - FRONT & PATIO (R)	20	1	12	120	0.7		720		27	28		500		0.5	120	12	1	20	(L) PYLON SIGN (C)		28
29	C18A	DUPLEX CONVENIENCE OUTLET - DRIVE THRU (R)	20	1	12	120	0.4			360	29	30			500	0.5	120	12	1	20	(L) MENU BOARD (C)		30
31	26	FREEZER, WORKTOP (K)	20	1	12	120	0.4	414			31	32	500			0.5	120	12	1	20	(L) PHOTO CELL FEED		32
33	C48A	DUPLEX CONVENIENCE OUTLET - DRIVE THRU (R)	20	1	12	120	0.4		360		33	34		1800		1.8	120	12	1	20	(L) PATIO LIGHTS & FANS		34
35	23A	PHONE - FRONT (K)	20	1	12	120	0.2			180	35	36			334	0.3	120	12	1	20	(K) ICE CUBE MACHINE	55	36
37	C44B	DUPLEX CONVENIENCE OUTLET - BATHROOM (R)	20	1	12	120	0.7	720			37	38	-			-	120	-	1	20	SPARE	-	38
39	-	SPARE	20	1	-	120	-		-		39	40		1560		3.1	208	12	2	20	(K) ICE MAKER CONDENSER	55.2	40
41	5	TEA BREWER (K)	20	1	12	120	1.7			1680	41	42			1560			12		20			42
		SUBTOTAL						6354	5960	6038			2500	6800	3894								

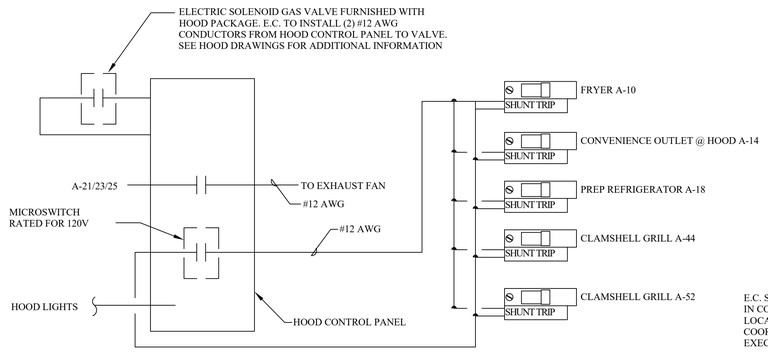
PANEL B - VA	8854	12760	9932
PANEL B - AMPS	74	106	83
TOTAL PANEL B - VA	31546		
TOTAL PANEL B - AMPS	88		

WIREWAY (SITE INSTALLED BY OTHERS) NEEDED TO CONNECT THE FOLLOWING THROUGH THE JBOX ON THE REAR.
B9, B19, B20, B22, B24, B26, B28, & B30

ELECTRIC LOAD SUMMARY			120/208V, 3ϕ, 4W SYSTEM	
DESCRIPTION	ACTUAL CONNECTED	CONNECTED KW	DEMAND FACTOR	DEMAND KW
(L) LIGHTING	8300	8.3	1.25	10.38
(R) RECEPTACLES	10080	10.08	1.0 < 10 KW + 0.5 REMAINING KW	10.04
(K) KITCHEN EQUIPMENT	65258	65.26	0.65	42.42
(O) OTHER	8810	8.81	1	8.81
(H) HVAC SYSTEM	27522	27.52	125% OF LARGEST COMPONENT ****	34.4
TOTAL	119970	119.97		106.05

NOTES: *
USE GREATER LOAD OF THE TWO CATEGORIES **
NEC ARTICLE 220-43 REQUIREMENT (200VA/FT OR ACTUAL CONNECTED) ***
NEC ARTICLE 220-43 REQUIREMENT (150VA/2FT OR ACTUAL CONNECTED) ****
125% OF LARGEST MOTOR OR COMPRESSOR IN SYSTEM

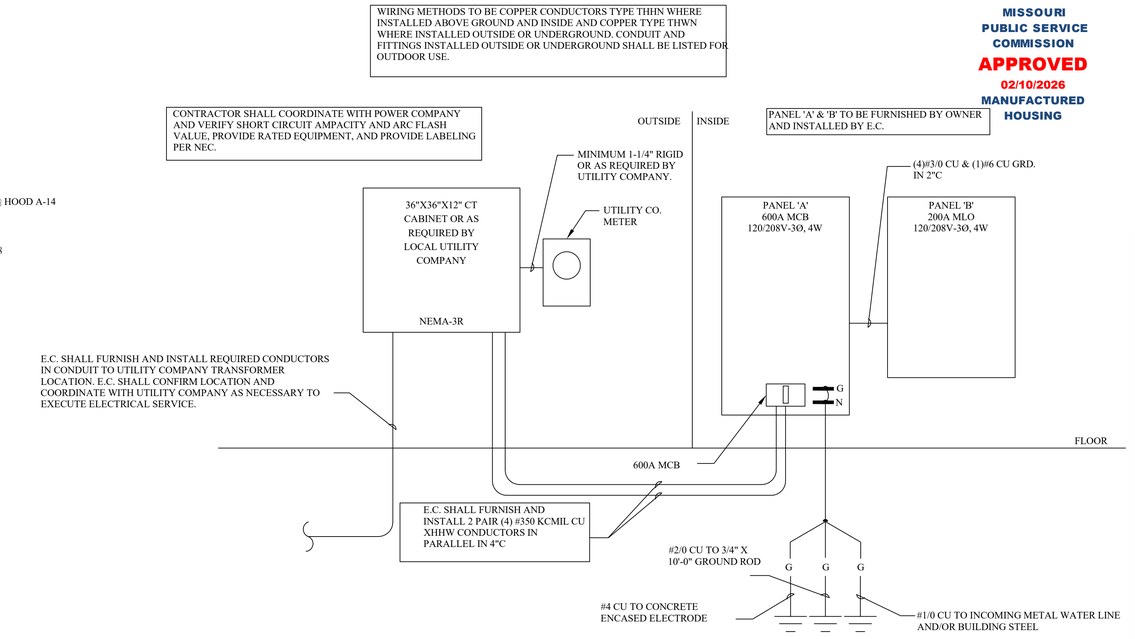
NEC DEMAND KVA X 1000 / SYSTEM VOLTAGE X 1.73		=	MINIMUM FEEDER AMPERAGE
106.05 / 208	X 1000 / X 1.73	=	294 AMPS



WIRING NOTES:

1. E.C. TO WIRE HOOD CONTROL PANEL WHICH WILL AUTOMATICALLY DE-ENERGIZE MAKE-UP AIR FAN, RTU-1, FANS, AND ENERGIZE THE EXHAUST FAN IN THE EVENT OF FIRE UNDER THE HOOD. THIS WILL ALSO DE-ENERGIZE THE ELECTRICAL EQUIPMENT UNDER THE HOOD VIA THE SHUNT TRIP BREAKERS.
2. E.C. TO COORDINATE REQUIREMENTS WITH HAVC CONTRACTOR, IF ANY, FOR A MOTOR STARTER FOR THE NEW ROOF MOUNTED EXHAUST FAN AND MAKE-UP AIR FAN.
3. E.C. SHALL FURNISH AND INSTALL ALL WIRING, UNLESS OTHERWISE NOTED, AND MAKE ALL FINAL CONNECTIONS TO EQUIPMENT SHOWN.

HOOD CONTROL PANEL WIRING DIAGRAM 2
N.T.S.



MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

ELECTRICAL RISER DIAGRAM 1
N.T.S.

RELEASE FOR CONSTRUCTION
AS NOTED OR COMMENTED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
MAY REQUIRE REVISIONS
02/12/2026 11:13:20

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

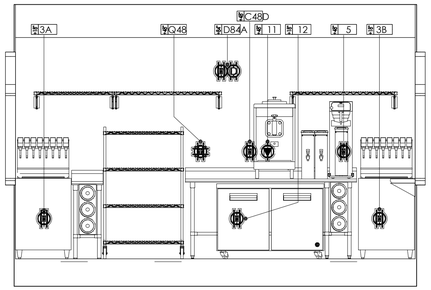
ENGINEER STAMP
WALTER E. WOOD NUMBER PE-2017022071 PROFESSIONAL ENGINEER STATE OF MISSOURI
VALID 12-31-2026
02-23-2024

Third Party: HWC & Assc. Inc.
1627 SouthMyrtle Ave.
Clearwater, FL 34616
(717)-584-8151

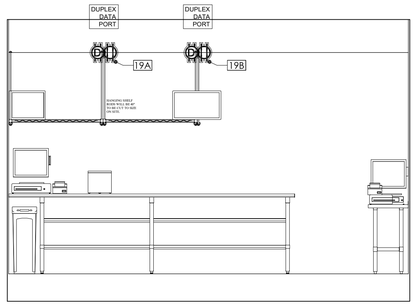
APPROVED 2-23-2024 HWC HUBBARD, WEINER, CARTER & ASSOCIATES, INC.

SHEET NAME
PANEL SCHEDULE

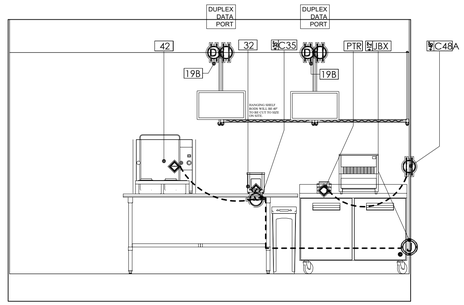
SHEET NUMBER
E3.1



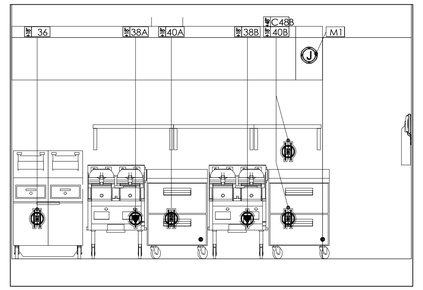
1 ELEVATION 1
3/8" = 1'-0"



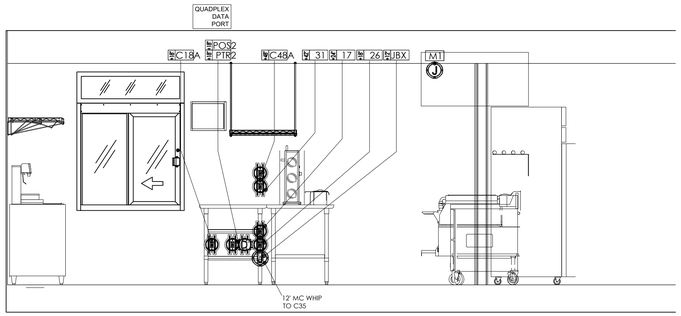
2 ELEVATION 2
3/8" = 1'-0"



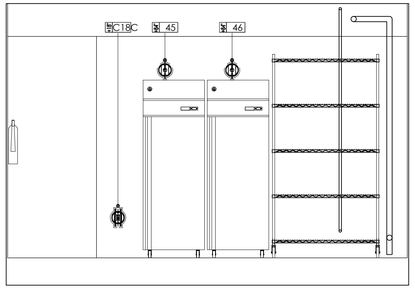
3 ELEVATION 3
3/8" = 1'-0"



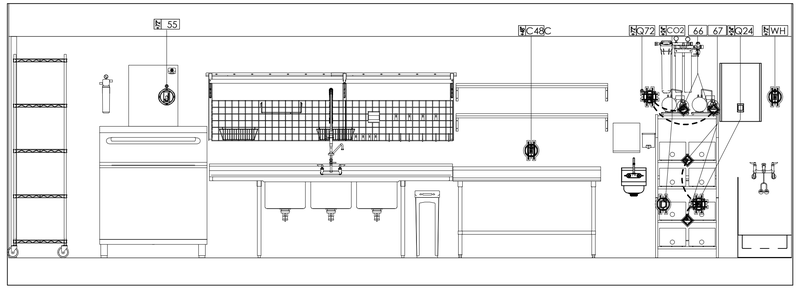
4 ELEVATION 4
3/8" = 1'-0"



5 ELEVATION 5
3/8" = 1'-0"



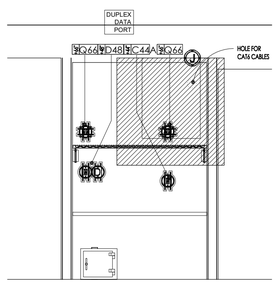
6 ELEVATION 6
3/8" = 1'-0"



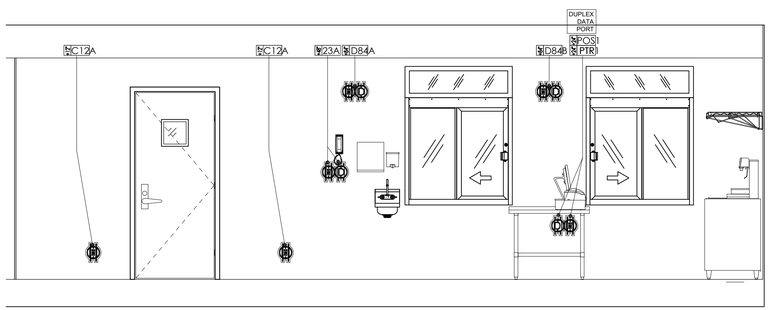
7 ELEVATION 7
3/8" = 1'-0"

ELECTRICAL LEGEND

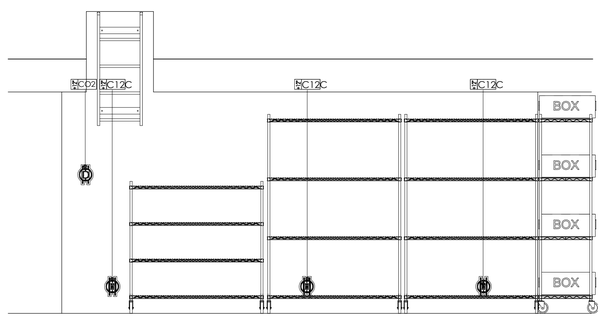
Plan	Elevation	Description
		120V Dedicated; Single, Duplex & Quadplex Outlet
		120V Duplex Drop Cord
		120V Duplex & Quadplex Floor Outlet
		High Voltage Outlet 208-480V
		J-Box Fixture Mounted & Wall Mounted
		Data Point
		Duplex Data Point
		Quad Data Point
		Electrical Stub-Up
		Electrical Connection Point
		Fire Pull Station — To Be Verified By Fire Inspector
		Light Switch
		Light Fixture
		Electrical Disconnect Point
		Thermostat
		Blower Fixture Mounted
		Alarm Connection Point
		Electrical Lines



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



9 ELEVATION 9
3/8" = 1'-0"



10 ELEVATION 10
3/8" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED OR INDICATED BY
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:15:20

REV.	DATE	DESCRIPTION
R1	10/27/23	REVISED PER CITY COMMENTS
R1	10/27/23	BIB RACK OUTLETS RAISED 2"
R2	1/15/24	BATHROOM WIDTH GREW 2"
R2	1/15/24	EQUIPMENT UPDATED
LAST DESIGN BULLETIN		
NUM.	DATE	DESCRIPTION

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
QE-23-2-024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED - FLORIDA - 2-23-2024 - HWC - WEIMER - CARTER & ASSOCIATES

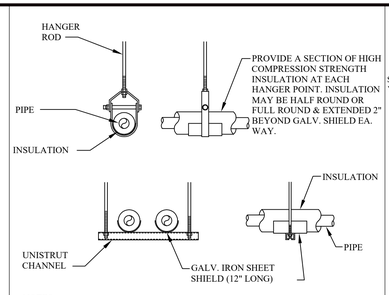
SHEET NAME

ELECTRICAL ELEVATIONS

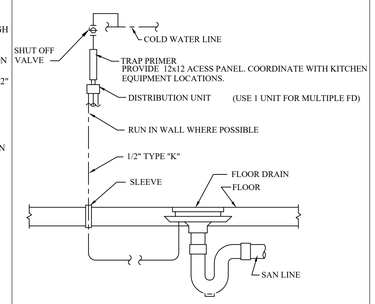
SHEET NUMBER

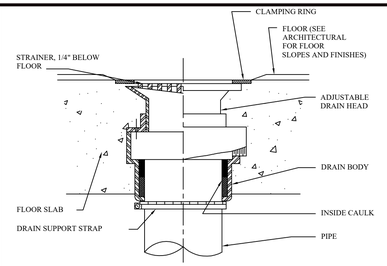
E4.1

RELEASE FOR CONSTRUCTION
AS NOTED OR COMMENTED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
DES 02/16/26

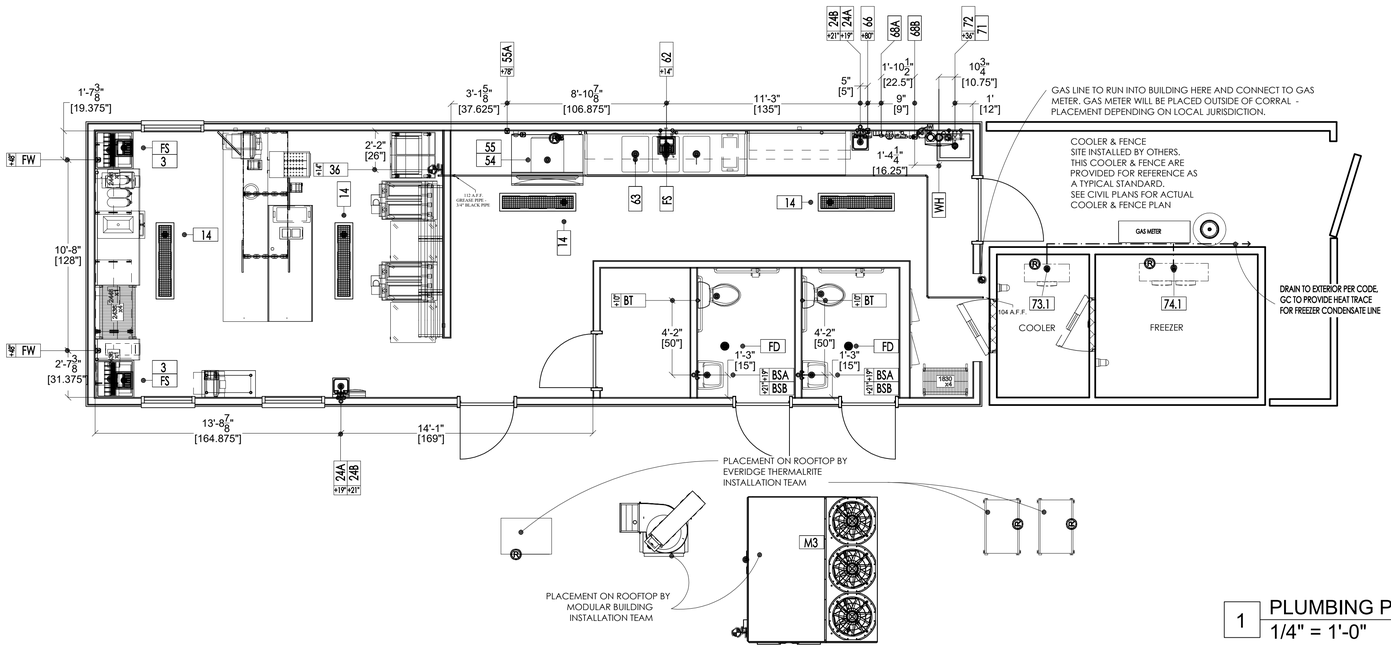


NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL/WOOD STRUCTURE TO THE TOP CHORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.





FLOOR DRAIN DETAIL B
N.T.S



1 PLUMBING PLAN
1/4" = 1'-0"

PLUMBING LEGEND

Plan	Elevation	Description
		Hotwater Connection Point
		Coldwater Connection Point
		In Wall Direct Drain
		Hot&Cold Water w/Direct Drain
		Filtered Water Stub
		Water Stub-Up
		Plumbing Connection Point
		Gas Supply Line
		Gas Stub-Up
		Beverage Stub-Up
		Fixture Drain
		Water Lines
		Gas Lines
		Waste Lines
		Floor Drain Round & Square
		Funnel Floor Drain
		Floor Sink; 1/2 Grate, 3/4 Grate, Open Grate & Round

Plumbing Schedule

Item Number	Count	Equipment Description	Connection Description	Cold Water Size	Cold Water Rl	Hot Water Size	Hot Water Rl	Filtered Water Size	Indirect Waste Size	Direct Waste Size	Direct Waste Rl	Gas Size	Gas Input Btu/h	Gas Rl	Plumbing Remarks	Item Number
3	2	Soda Dispenser	Fixture Drain Indirect						3/4"						Verify Requirements w/ Owner, By Vendor, Air-Gap To FS	3
14	4	Floor Trough Drain	Penetration Drain							3"	0"				Verify w/ Fabricator	14
24A	2	Hand Sink	Hot & Cold 4"	1/2"	19"	1/2"	19"									24A
24B	2	Hand Sink	Direct Drain							1 1/2"	21"					24B
36	1	Fryers	Gas Supply									1"	140000	14"		36
54	1	Ice Bin	Fixture Drain Indirect						3/4"						Air-Gap to FS	54
55	1	Ice Cube Machine, Remote w/ 50' Line Set	Filtered Water					1/2"								55
55	1	Ice Cube Machine, Remote w/ 50' Line Set	Fixture Drain Indirect						3/4"							55
55A	1	Filter System, Ice Maker	Cold Water Stub	3/8"	78"			3/8"							Filtered water to 55	55A
62	1	Pre-Rinse Faucet Assembly, With Add-On Faucet	Hot & Cold 8"	1/2"	14"	1/2"	14"									62
63	1	Three (3) Compartment Sink	Fixture Drain Indirect						2"						Air-Gap To FS	63
66	1	Soda Carbonator	Filtered Water					1/4"							By Vendor - verify requirements	66
68A	1	Water Filtration System	Cold Water Stub	3/4"											Filtered Water To 5 and 66	68A
68B	1	Water Filtration System	Filtered Water					3/4"							Filtered Water To 5 and 66	68B
71	1	Mop Sink	Penetration Drain							2"	0"					71
72	1	Service Faucet	Hot & Cold 8"	1/2"	36"	1/2"	36"									72
73.1	1	Evaporator Coil (Refrigerator)	Fixture Drain Indirect						3/4"						Air-Gap To FS, See Shop Drawings	73.1
74.1	1	Evaporator Coil (Freezer)	Fixture Drain Indirect						3/4"						Air-Gap To FS, See Shop Drawings	74.1
BSA	2	Bathroom Sink	Hot & Cold 4"	1/2"	19"	1/2"	19"									BSA
BSB	2	Bathroom Sink	Direct Drain							1 1/2"	21"					BSB
BT	2	Bathroom Toilet	Cold Water Stub	1/2"	10"											BT
BT	2	Bathroom Toilet	Penetration Drain							2"	0"					BT
FD	2	Floor Drain	Penetration Drain							3"	0"				Verify w/ Fabricator	FD
FS	3	Floor Sink	Penetration Drain							3"	0"				Verify w/ Fabricator	FS
FW	2	Filtered Water Stub-Out	Filtered Water Stub					1/4"							Filtered Water From 68, By Vendor - Verify w/ Vendor	FW
M3	1	Make Up Air Unit	Gas Connection Point									3/4"	150000		See Shop Drawings	M3
WH	1	Water Heater	Cold Water Stub	3/4"		3/4"						3/4"	200000		By Vendor-Verify w/ Vendor	WH

GENERAL NOTES

1. PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO EXECUTE THE PLUMBING WORK INDICATED ON THE DRAWINGS, AND AS REQUIRED BY LOCAL CODES AND ORDINANCES.
2. PAY ALL FEES AND ARRANGE FOR EXECUTION OF ALL TAPS, METERS WITH REQUIRED ENCLOSURES (IF ANY), ETC. INHERENT TO THE INSTALLATION OF NEW PLUMBING SERVICE.
3. PLUMBING WORK FOR THIS CONTRACT SHALL INCLUDE ALL PIPING FOR DOMESTIC HOT AND COLD WATER LINES, VENT AND SANITARY LINES, HOOK-UP OF ALL FIXTURES SCHEDULED ON THE DRAWINGS, AND INSULATION OF DESIGNATED PIPING RUNS. WORK SHALL ALSO INCLUDE ALL GAS PIPING AND EQUIPMENT CONNECTIONS WHERE REQUIRED.
4. ALL ITEMS SUCH AS FITTINGS, ETC. NOT MENTIONED BUT UNDERSTOOD TO BE NECESSARY TO COMPLETE THE PLUMBING SYSTEM SHALL BE INCLUDED.
5. SOIL, WASTE, AND VENT PIPING TO BE OF MATERIAL APPROVED BY LOCAL CODES. PVC, DWV PIPING AND FITTINGS TO BE SCHEDULE 40 AS A MINIMUM.
6. PROVIDE CLEANOUTS FOR SOIL AND WASTE LINES AS SHOWN ON DRAWINGS, AND OF TYPE APPROVED BY LOCAL CODES.
7. ALL WATER SUPPLY PIPING SHALL BE PEX PIPING UNLESS PROHIBITED BY LOCAL CODES IN WHICH CASE COPPER TUBING SHALL BE USED. (AVOID FITTINGS BELOW SLAB WHENEVER POSSIBLE). PEX PIPING PASSING THROUGH CONCRETE SLABS SHALL BE SLEEVED WITH PVC BEND SUPPORT BY MANUFACTURER. PROVIDE UPONOR/WIRSBO SERIES: A5500500 FOR 1/2", PEX A5500750 FOR 3/4" PEX, A5501000 FOR 1" PEX. PROVIDE CORRUGATED PVC TUBING (1) PIPE DIAMETER LARGER THAN THE PEX TUBING FOR SIZES LARGER THAN 1" PEX.
8. PROVIDE FOR DRAINING WATER SYSTEM, AND CAP ALL STUBS UNTIL FINISH WORK IS INSTALLED. INSTALL DRAIN VALVE AT WATER METER WITH 3/4" HOSE THREAD AND VACUUM BREAKER.
9. PROVIDE STOPS ON WATER SUPPLIES TO EACH FIXTURE & EQUIPMENT.
10. GAS PIPING FOR HEATING SYSTEMS WITH GAS-FIRED EQUIPMENT SHALL BE INCLUDED IN THIS CONTRACT. GAS PIPING SHALL BE STANDARD WEIGHT, BLACK STEEL PIPE, SCHEDULE 40. PIPING EXPOSED TO ATMOSPHERE OR RUN BELOW GRADE SHALL HAVE POLYETHYLENE PLASTIC COATING. ALL GAS PIPING, FITTINGS AND INSTALLATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF UTILITY COMPANY AND ALL GOVERNING BODIES.
11. IMPORTANT - HOLD ALL COLD AND HOT WATER PIPING TO WARM SIDE OF INSULATION TO PREVENT FREEZING. INSULATION SHALL MEET FLAME SPREAD AND SMOKE DEVELOPED RATINGS REQUIRED BY LOCAL CODES.
12. PLUMBING FIXTURES SHALL BE FURNISHED AND INSTALLED WHERE SHOWN ON THE DRAWINGS. ALL FIXTURE FITTINGS AND EXPOSED FIXTURE PIPING SHALL BE BRASS CHROMIUM PLATED. ALL TRAPS SHALL BE CAST BRASS. ALL FIXTURES SHALL BE EQUAL IN ALL RESPECTS TO FIXTURES SPECIFIED.
13. WATER METER TYPE IS TO BE PROVIDED AS REQUIRED BY LOCAL UTILITY COMPANY.
14. ROUGH-IN AND FINAL CONNECTIONS OF REQUIRED WASTE, VENT, AND WATER SUPPLY PIPING BY THIS CONTRACTOR. ALL SUPPLY PIPING SHALL BE VALVED.
15. COORDINATE ALL WORK WITH OTHER CONTRACTORS.
16. THIS CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, (USUAL WEAR IS EXPECTED), AND SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE BUILDING BY THE OWNER, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS AND ALL DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER.
17. BACKFLOW PREVENTER TO BE INSTALLED WHEN REQUIRED BY LOCAL CODE.
18. SEE PLUMBING SHEETS FOR KITCHEN EQUIPMENT SCHEDULE, FIXTURE SCHEDULE, DETAILS AND SANITARY ISOMETRIC.
19. THE DIRECTION OF THE SANITARY MAIN AND THE LOCATION OF THE GREASE INTERCEPTOR SHALL BE COORDINATED WITH CIVIL DWGS PRIOR TO ROUGH-IN.
20. COORDINATE LOCATION AND ROUGH-IN HEIGHT OF KITCHEN EQUIPMENT WITH OWNER AND MILLWORK PRIOR TO ROUGH-IN.
21. MAKE ALL CONNECTIONS TO KITCHEN AND MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED. USE MILL HARDWOOD 30B35 BRAIDED FLEXIBLE HOSES FOR ALL COUNTERTOP EQUIPMENT.
22. PROVIDE SHOCK ABSORBERS AT THE END RUN OF ALL WATER PIPING. SIZE AS RECOMMENDED BY PLUMBING AND DRAINAGE INSTITUTE, AND AS RECOMMENDED BY THE MANUFACTURER.
23. ALL PIPING (GAS AND WATER) TO BE CONCEALED IN WALL SPACE WHEN POSSIBLE.
24. ALL SHUT-OFF VALVES TO BE 1/4 TURN SHUT-OFF VALVES.
25. ANY DAMAGES TO ANY EXISTING WALLS, FLOORS, FINISHES ETC. BY THIS CONTRACTOR ARE TO BE REPAIRED AT THIS CONTRACTOR'S EXPENSE.
26. ALL GENERAL USE FLOOR DRAINS NOT INSTALLED UNDER KITCHEN EQUIPMENT TO RECEIVE TRAP PRIMERS.
27. HOSE BIBBS HAVE BUILT IN VACUUM BREAKER
28. HOSE BIBBS AT THE PATIO & REAR OF THE BUILDING WILL HAVE HOT AND COLD WATER AVAILABLE.
29. PROVIDE TRAP PRIMER FOR FLOOR DRAINS. SEE DETAIL ON THIS SHEET FOR MORE INFORMATION.

PLUMBING ABBREVIATIONS

AB	ABOVE
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECT
BEL	BELOW
BLDG	BUILDING
CLG	CEILING
CO	CLEAN OUT
CONT	CONTINUATION
CW	COLD WATER
CONTR	CONTRACTOR
COORD	COORDINATE
DISC	DISCONNECT
DN	DOWN
EA	EACH
EC	ELECTRICAL CONTRACTOR
EX	EXISTING
EWC	ELECTRIC WATER COOLER
ECO	EXTERIOR CLEAN OUT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FIXT	FIXTURE
FLR	FLOOR
FURN	FURNISH
FV	FLUSH VALVE
G	GAS
GAL	GALLON
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HC	HEATING CONTRACTOR
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
INV	INVERT
LAV	LAVATORY
MAX	MAXIMUM
MFR	MANUFACTURER
MT	MOUNT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
RD	ROOF DRAIN
RTU	ROOFTOP UNIT
SAN	SANITARY
SS	SERVICE SINK
TYP	TYPICAL
TW	TEMPERED WATER
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WATER HEATER
W/	WITH

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

REV.	DATE	DES. SUBJECT
R3	1/11/24	WIDTH GREW 2"
R2	1/11/24	WIDTH GREW 2" EQUIPMENT UPDATED

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

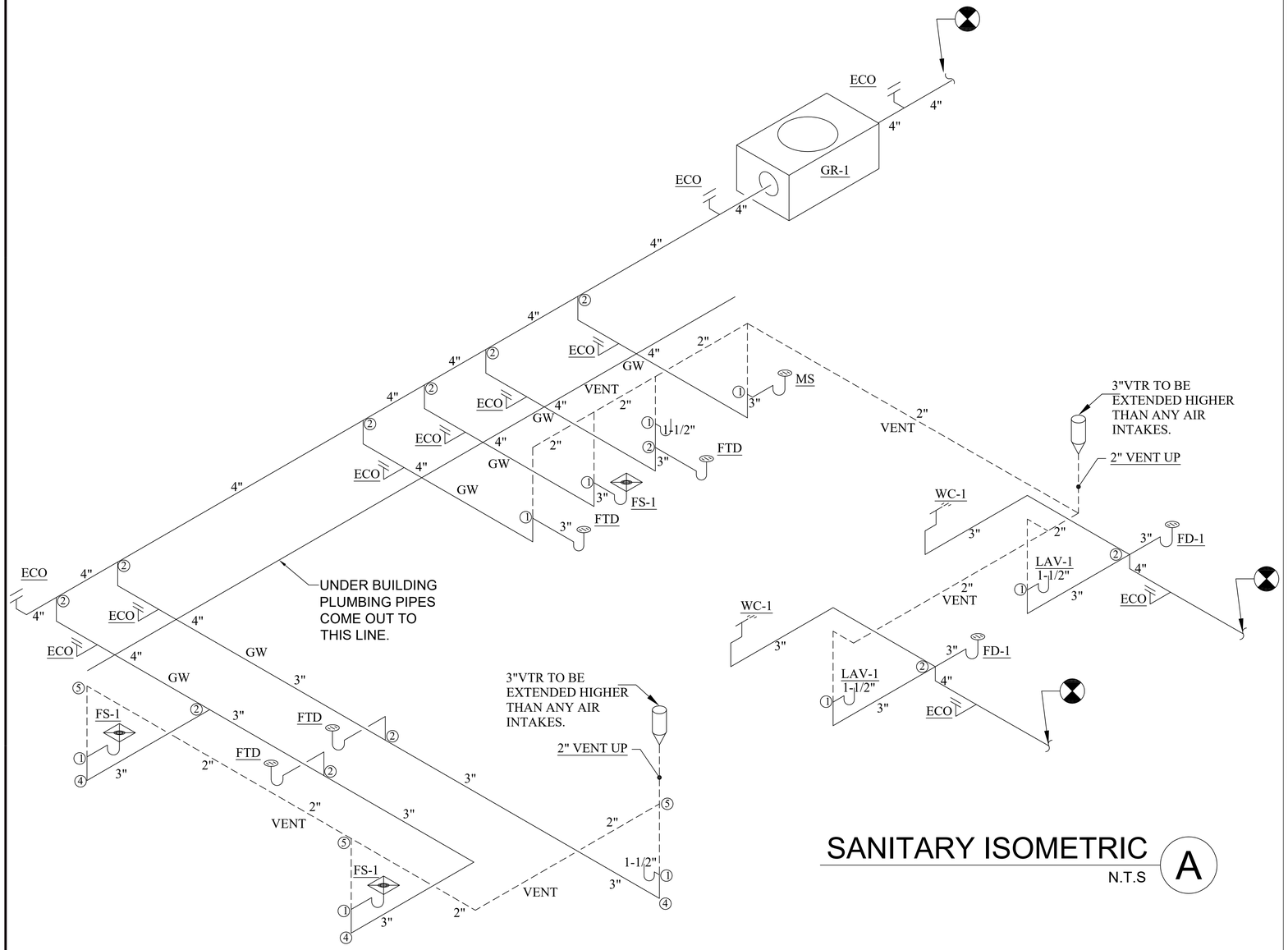
STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2007020771
PROFESSIONAL ENGINEER
VALID
02-23-2 024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2026
HWC
HERSHEY WERNER CARTER & ASSOCIATES

SHEET NAME
PLUMBING PLAN

SHEET NUMBER
P1.1



SANITARY ISOMETRIC

N.T.S

A

PLUMBING FIXTURE SCHEDULE AS SHOWN OR EQUIVALENT

MARK	DESCRIPTION	MFG & MDL #		HW	CW	SAN	VENT	NOTES
		FIXTURE OR EQUAL	ACCESSORY					
WC-1	WATER CLOSET (HC)	BOWL = Z5560 TANK = Z5561	VITREOUS CHINA, 1.6 GPF LOW CONSUMPTION, HIGH PERFORMANCE PRESSURE ASSISTED TWO PIECE TOILET, ELONGATED ADA HEIGHT FRONT RIM, SIPHON JET ACTION, FLOOR MOUNTED TOILET W/ 12" STANDARD ROUGH-IN, FLANGE BOLTS, BOLT CAPS, FLOOR FLANGE & GASKET. (1.6/FLUSH).	-	1/2"	4"	1-1/2"	1
LAV-1	WALL HUNG LAV.	K-1728-0	DELTA AUTO FAUCET LESS POP-UP DRAIN, MODEL # 591LF-LGHGMHDF PROVIDE WITH TRUEBRO LAV-GUARD KIT	1/2"	1/2"	1-1/2"	1-1/2"	2,4,5
WCO	WALL CLEAN OUT		CAST IRON BODY WITH 6" DIA SS COVER	-	-	3"	-	3
FCO	FLOOR CLEAN OUT	SIOUX CHIEF 822-CF3PNR	PVC BODY WITH SCORIATED BRONZE COVER	-	-	3"	-	3
FD-1	FLOOR DRAIN	SIOUX CHIEF 822-F3PNR	PVC BODY WITH ROUND CAST IRON STRAINER	-	-	3"	-	3
FS-1	FLOOR SINK	SIOUX CHIEF 861-3P		-	-	3"	-	3
GR-1	GREASE INTERCEPTOR	750 GALLON (REFER TO CIVIL FOR ACTUAL SIZE)	750 GALLON 48" X 96" GREASE INTERCEPTOR (REFER TO CIVIL FOR ACTUAL SIZE)					
MV-1	MIXING VALVE	POWERS LFMM432 (ASSE 1017)	POWERS HYDROGUARD TEMPERING VALVE 3/4" IN 1" OUT	1/2"	1/2"			
WF-1	WATER FILTER	CUNO 260 NSF CERTIFIED	WATER FILTER MOUNTED ABOVE SINK	3/4"	3/4"			
WH-1	WATER HEATER	RINNAI CXP199IN	CONDENSING COMMERCIAL TANKLESS FLOW RATE (MIN-MAX) 0.13-11.0 GPM	3/4"	3/4"			
FTD	FLOOR TROUGH DRAIN							
MS	MOP SINK							

NOTES:
1. PROVIDE: BRASS FLOOR FLANGE, BOLT CAPS, WAX RING, & CHROME SUPPLY STOP.
2. PROVIDE: 2" STRAINER, 1-1/4" MCGUIRE CHROME P-TRAP & CHROME SUPPLY STOPS.
3. COVER TO BE FLUSH WITH FLOOR/GRADE
4. PROVIDE A WALL MOUNTED CONCEALED ARM CARRIER.
5. PROVIDE WITH THERMAL MIXING VALVE BELOW FIXTURE. SET AT 105 DEGREES F.
6. EXTEND RELIEF FROM BFP TO MOP SINK W/ PROPER AIR GAP.
7. FAUCET TO BE PROVIDED W/ VACUUM BREAKER.
8. GREASE TRAP PROVIDED FOR REFERENCE AS A TYPICAL STANDARD, VERIFY WITH CIVIL FOR SIZE.

DWV PIPE FITTING LEGEND:
1. SANITARY TEE
2. WYE
3. SHORT SWEEP
4. LONG SWEEP
5. QUARTER BEND
6. EIGHTH BEND

ALLOWABLE DISTANCE FROM FIXTURE TRAP TO VENT

SIZE OF FIXTURE DRAIN - INCHES	MAXIMUM ALLOWABLE DISTANCE FROM TRAP TO VENT
1 1/4	2 FT 6 IN
1 1/2	3 FT 6 IN
2	4 FT
3	5 FT
4 AND LARGER	6 FT

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED OR MARKED, RELEASED BY DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
MK | DATE | DESCRIPTION
02/12/2026 11:13:20

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2007022073
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
WILLIAM H. CARTER & ASSOCIATES, INC.

SHEET NAME

PLUMBING SCHEDULE

SHEET NUMBER

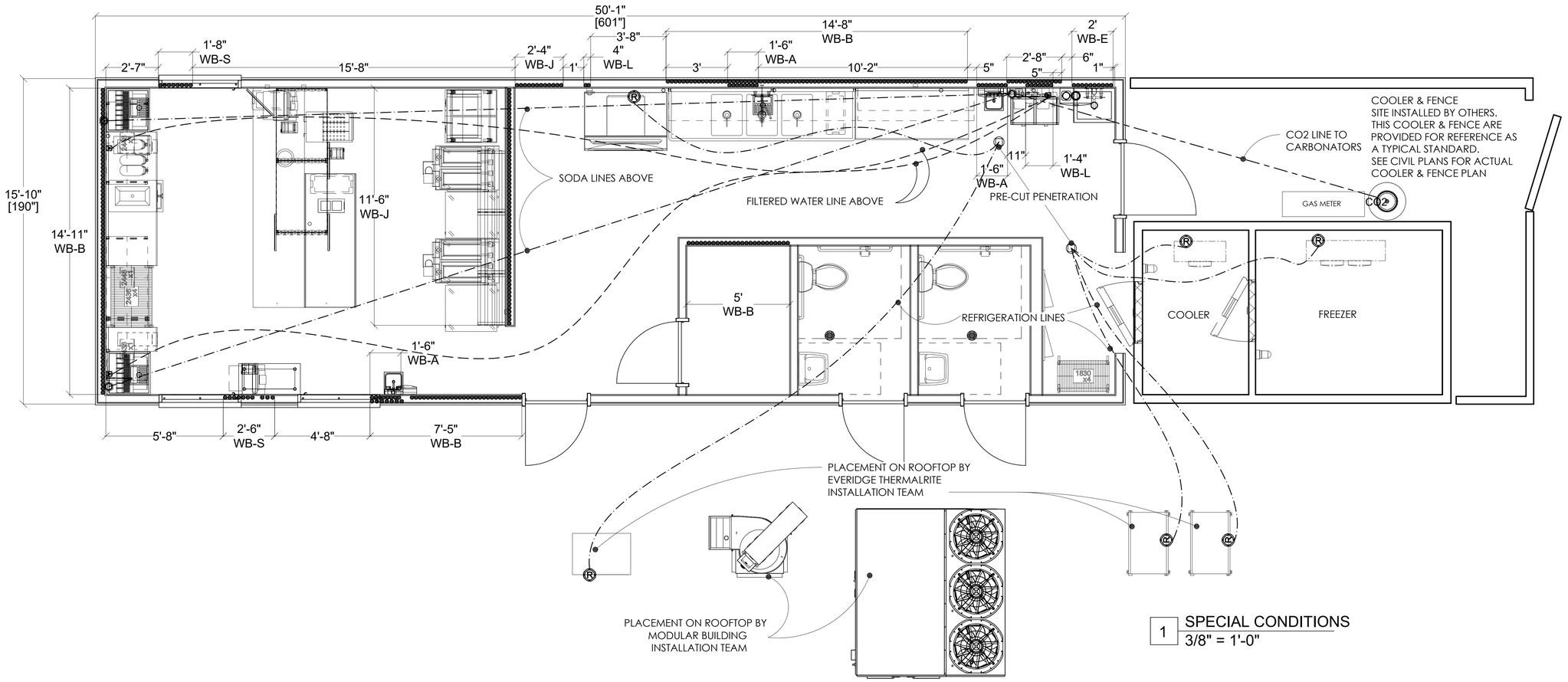
P2.1

RELEASE FOR CONSTRUCTION
AS NOTED OR COMMENTED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/17/2025 11:13:20

REV.	DATE	DESCRIPTION
R2	1/11/24	RESTROOM WIDTH GREW 2"
R2	1/11/24	EQUIPMENT UPDATED

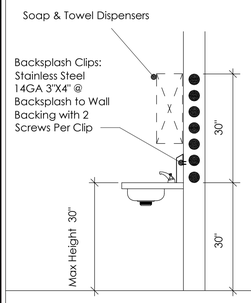
LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

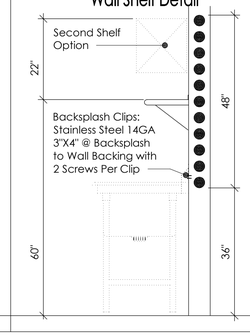


1 SPECIAL CONDITIONS
3/8" = 1'-0"

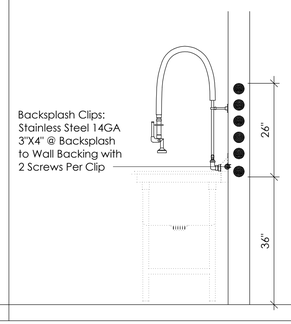
(WB-A)
Hand Sink Detail



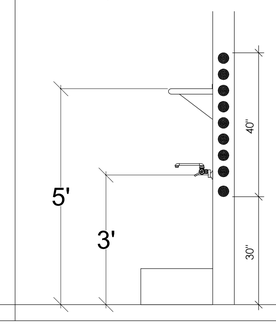
(WB-B)
Wall Shelf Detail



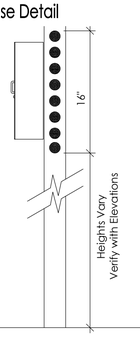
(WB-C)
Pre-Rinse Detail



(WB-E)
Utility Faucet Detail

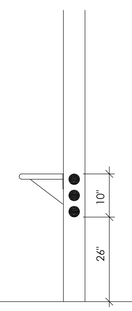


(WB-J)
Ansul Case Detail



(WB-L)
Water Filter Detail

(WB-S)
Walk-Up Shelf Detail



SPECIAL CONDITIONS LEGEND

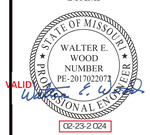
Plan	Description
●●●●●●	Wall Backing Support
▬▬▬▬	Stainless Steel Wall Flashing
XXXXXXXXXX	Hood Hanger Support
▨	Floor Depression
- - - - -	Above Floor Lines
— — — —	Below Floor Lines
▨	Hood Ducts

ALL DETAILS ARE TYPICAL AND SHOULD BE VERIFIED WITH ARCHITECTURAL DRAWINGS.

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP



Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

SHEET NAME

SPECIAL CONDITIONS

SHEET NUMBER

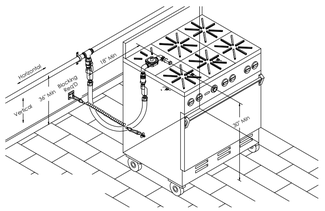
P2.1B

GAS CONNECTION DETAIL

THE INSTALLATION SHOWN ON THIS DRAWING IS FOR THE EZPRESS PURPOSE OF PROVIDING INSTALLATION GUIDLINES ONLY. THE FINAL INSTALLATION APPROVAL IS THE RESPONSIBILITY OF THE SYSTEM DESIGNER/INSTALLER

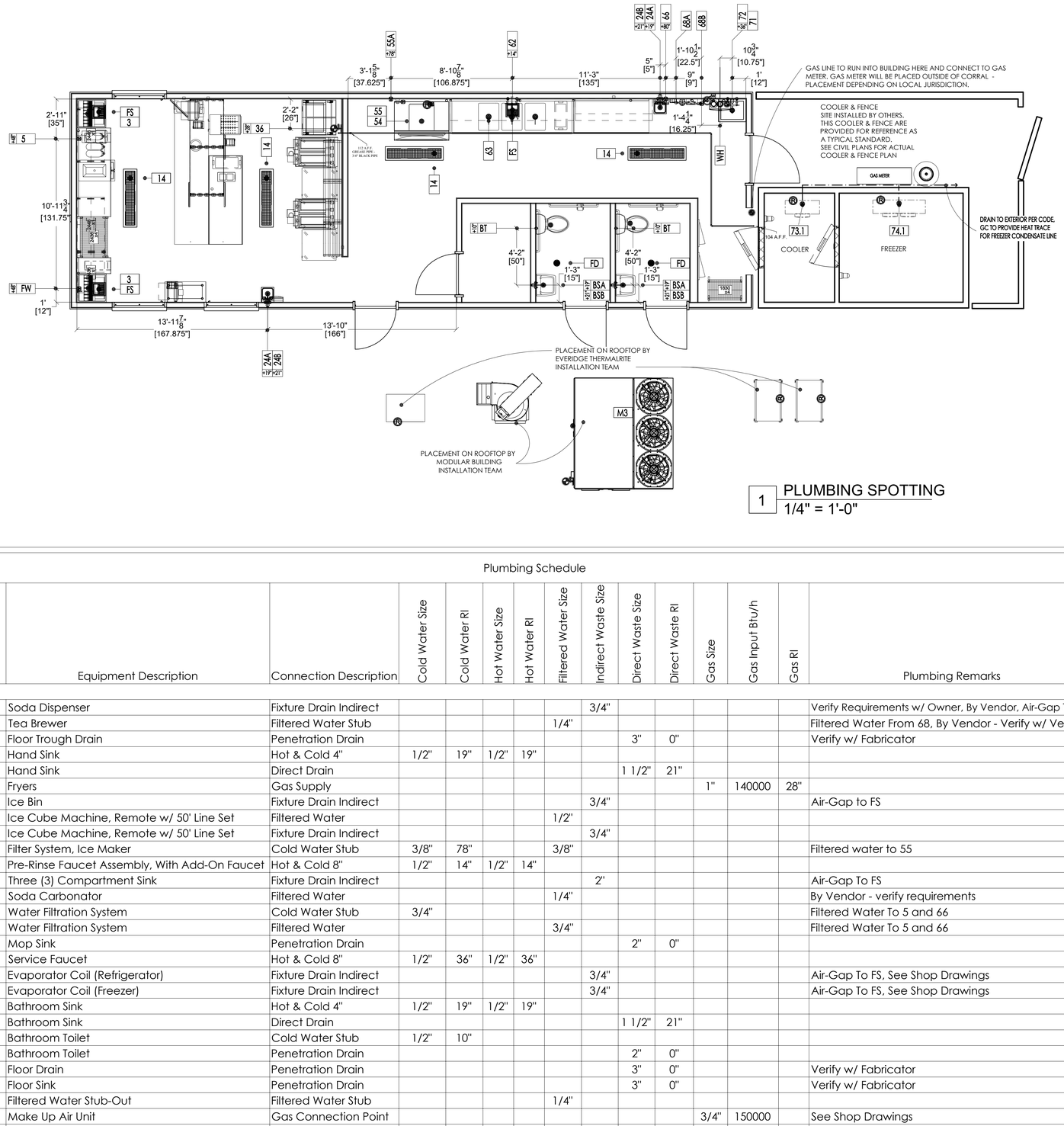
TYPICAL INSTALLATION FOR A CASTER MOUNTED RANGE (CAN BE USED TO SPECIFY CONNECTOR FOR A RANGE WITH ANY NUMBER OF BURNERS).

INSTALLER MUST VERIFY THE SIZE OF THE GAS CONNECTION TO MATCH EQUIPMENT SUPPLY INLET AND EQUIPMENT MANUFACTURER'S RECOMMENDED BTU'S FOR PEAK PERFORMANCE



PLUMBING LEGEND

Plan	Elevation	Description
		Hotwater Connection Point
		Coldwater Connection Point
		In Wall Direct Drain
		Hot&Cold Water w/Direct Drain
		Filtered Water Stub
W	W	Water Stub-Up
		Plumbing Connection Point
		Gas Supply Line
G	G	Gas Stub-Up
B	B	Beverage Stub-Up
		Fixture Drain
		Water Lines
		Gas Lines
		Waste Lines
		Floor Drain Round & Square
		Funnel Floor Drain
		Floor Sink: 1/2 Grate, 3/4 Grate, Open Grate & Round



1 PLUMBING SPOTTING
1/4" = 1'-0"

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED OR INDICATED BY DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10p/12202851-1320

REV.	DATE	DESCRIPTION
R3	1/11/24	FEATUROOL
R2	1/11/24	WIDTH GREW 2"
R2	1/11/24	FD ADDED OUTSIDE OFFICE

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

SHEET NAME

PLUMBING SPOTTING

SHEET NUMBER

P2.1C

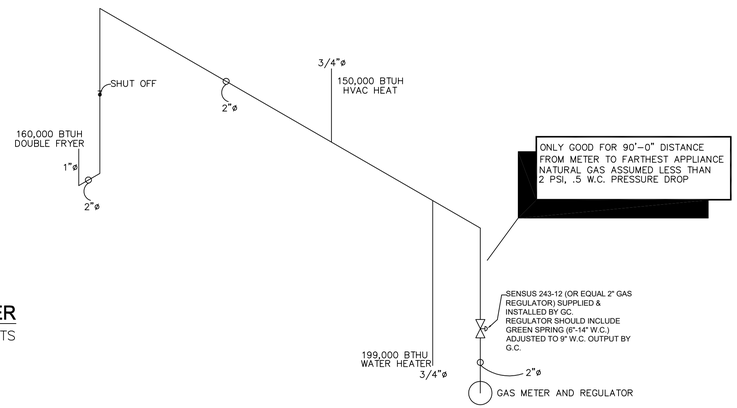
Plumbing Schedule

Item Number	Count	Equipment Description	Connection Description	Cold Water Size	Cold Water RI	Hot Water Size	Hot Water RI	Filtered Water Size	Indirect Waste Size	Direct Waste Size	Direct Waste RI	Gas Size	Gas Input Btu/h	Gas RI	Plumbing Remarks	Item Number
3	2	Soda Dispenser	Fixture Drain Indirect						3/4"						Verify Requirements w/ Owner, By Vendor, Air-Gap To FS	3
5	1	Tea Brewer	Filtered Water Stub					1/4"							Filtered Water From 68, By Vendor - Verify w/ Vendor	5
14	4	Floor Trough Drain	Penetration Drain							3"	0"				Verify w/ Fabricator	14
24A	2	Hand Sink	Hot & Cold 4"	1/2"	19"	1/2"	19"									24A
24B	2	Hand Sink	Direct Drain							1 1/2"	21"					24B
36	1	Fryers	Gas Supply									1"	140000	28"		36
54	1	Ice Bin	Fixture Drain Indirect						3/4"						Air-Gap to FS	54
55	1	Ice Cube Machine, Remote w/ 50' Line Set	Filtered Water					1/2"								55
55	1	Ice Cube Machine, Remote w/ 50' Line Set	Fixture Drain Indirect						3/4"							55
55A	1	Filter System, Ice Maker	Cold Water Stub	3/8"	78"			3/8"							Filtered water to 55	55A
62	1	Pre-Rinse Faucet Assembly, With Add-On Faucet	Hot & Cold 8"	1/2"	14"	1/2"	14"									62
63	1	Three (3) Compartment Sink	Fixture Drain Indirect						2"						Air-Gap To FS	63
66	1	Soda Carbonator	Filtered Water					1/4"							By Vendor - verify requirements	66
68A	1	Water Filtration System	Cold Water Stub	3/4"											Filtered Water To 5 and 66	68A
68B	1	Water Filtration System	Filtered Water					3/4"							Filtered Water To 5 and 66	68B
71	1	Mop Sink	Penetration Drain							2"	0"					71
72	1	Service Faucet	Hot & Cold 8"	1/2"	36"	1/2"	36"									72
73.1	1	Evaporator Coil (Refrigerator)	Fixture Drain Indirect						3/4"						Air-Gap To FS, See Shop Drawings	73.1
74.1	1	Evaporator Coil (Freezer)	Fixture Drain Indirect						3/4"						Air-Gap To FS, See Shop Drawings	74.1
BSA	2	Bathroom Sink	Hot & Cold 4"	1/2"	19"	1/2"	19"									BSA
BSB	2	Bathroom Sink	Direct Drain							1 1/2"	21"					BSB
BT	2	Bathroom Toilet	Cold Water Stub	1/2"	10"											BT
BT	2	Bathroom Toilet	Penetration Drain							2"	0"					BT
FD	2	Floor Drain	Penetration Drain							3"	0"				Verify w/ Fabricator	FD
FS	3	Floor Sink	Penetration Drain							3"	0"				Verify w/ Fabricator	FS
FW	1	Filtered Water Stub-Out	Filtered Water Stub					1/4"								FW
M3	1	Make Up Air Unit	Gas Connection Point									3/4"	150000		See Shop Drawings	M3
WH	1	Water Heater	Cold Water Stub	3/4"		3/4"						3/4"	200000		By Vendor-Verify w/ Vendor	WH

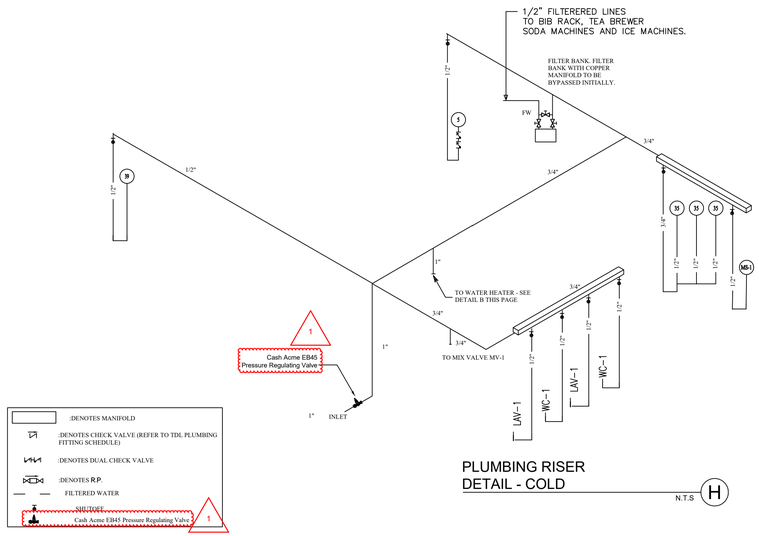
Equipment	Model # (or equal)	BTU/hr Input Rating	Natural Gas Pressure (W.C.)
Water Heater	CXP199IN	199000	5" - 10.5"
DOAS RTU Heater	AHRTU3-I.150-15-20T	150000	7" - 14"
Fryer (Bank 1)	2VHG50F	80000	7" - 10" (No more than 14" supply)
Fryer (Bank 2)	2VHG50F	80000	7" - 10" (No more than 14" supply)
Totals		509,000 BTU/hr	7" - 14"

GAS LOADS

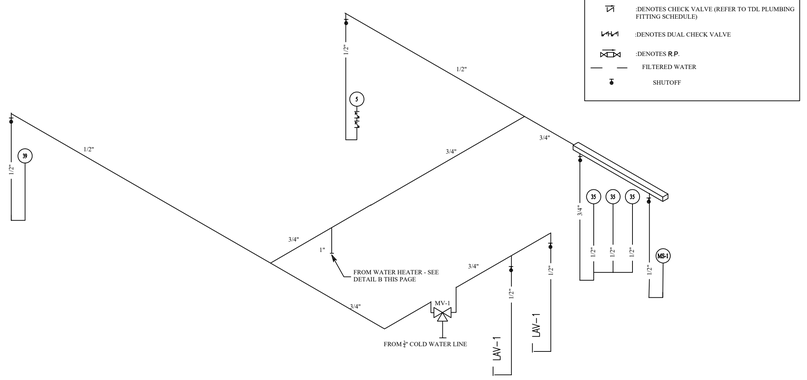
HVAC HTR.	150 MBH
WTR. HTR.	199 MBH
FRYERS	160 MBH
TOTAL	509 MBH



GAS RISER
NTS



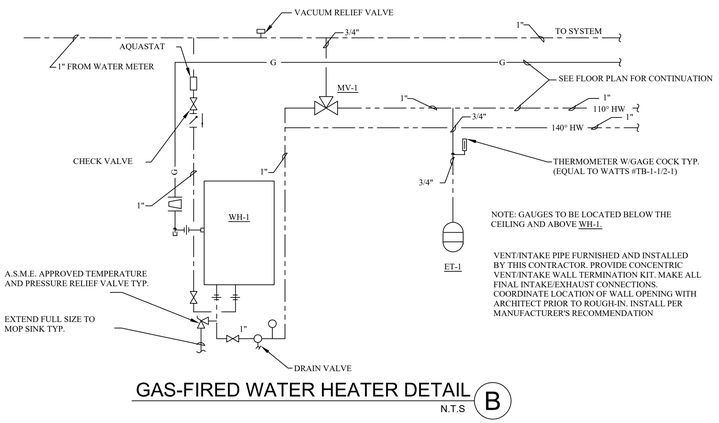
PLUMBING RISER
DETAIL - COLD
N.T.S H



NOTES:
ALL PEX PIPING SHOWN TO BE INSTALLED ABOVE CEILING AS A HOME RUN WITH INDIVIDUAL LINES RUN TO EACH PIECE OF EQUIPMENT UNLESS SHOWN OTHERWISE. EQUIPMENT ON SAME MANIFOLD MAY BE INSTALLED IN A "DAISY CHAIN" FASHION IF WATER PRESSURE FLOW AND COST ARE NOT AFFECTED.

PLUMBING RISER
DETAIL - HOT WATER
N.T.S B

WATER HEATER PACKAGE



GAS-FIRED WATER HEATER DETAIL
N.T.S B

DIRECT VENT INSTANTANEOUS WATER HEATER - COMBUSTION AIR TAKEN FROM OUTSIDE OF BUILDING. INSTALL LISTED VENTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. VENTS SHALL TERMINATE THROUGH WALL ADJACENT TO WATER HEATER. TERMINATION OF EXHAUST PIPE SHALL BE A MIN OF 12" ABOVE COMBUSTION AIR INLET.

PER FPC 403.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES FOR RESTAURANTS:
1 WATER CLOSET PER 75 MALES
1 WATER CLOSET PER 75 FEMALES
1 LAVATORY PER 200 MALES & FEMALES
1 SERVICE SINK

PER 410.4:
WHERE WATER IS SERVED IN RESTAURANTS DRINKING FOUNTAINS SHALL NOT BE REQUIRED

NOTES

1. SITE CONTRACTOR TO FURNISH AND INSTALL GAS METER AND REGULATOR PER LOCAL GAS COMPANY. COORDINATE WITH LOCAL GAS COMPANY FOR METER AND REGULATOR STANDARDS PRIOR TO ROUGH-IN.
2. BUILDING MANUFACTURER TO FURNISH AND INSTALL A SEDIMENT TRAP AND SHUT-OFF VALVE AT EACH APPLIANCE. DRIPS SHALL BE PROVIDED WHERE CONDENSATE COULD COLLECT.
3. NOT USED
4. NOT USED
5. SEE WATER HEATER DETAIL ON THIS SHEET FOR SIZES AND CONTINUATION OF WATER LINES.
6. PROVIDE CUT TO LENGTH PEX PIPING SIZED PER EQUIPMENT CONNECTION SCHEDULE. EXTEND FILTERED COLD WATER PEX FROM MANIFOLD SHUTOFF ABOVE CEILING TO EQUIPMENT'S CONNECTION. INSTALL CONNECTION ENDS ON PEX SIZE AND TYPE TO COORDINATE WITH EQUIPMENT CONNECTION. SEE PEX RISERS AND KITCHEN CONNECTION SCHEDULE FOR MORE INFORMATION FOR INSTALLATION DETAILS. COORDINATE WITH OWNERS REPRESENTATIVE & MILLWORK. CONTRACTOR TO INSTALL CODE APPROVED DOUBLE CHECK VALVE ON ICE MAKER SUPPLY LINE.
7. NOT USED
8. PROVIDE CUT TO LENGTH PEX PIPING INSIDE WALL SIZED PER EQUIPMENT CONNECTION SCHEDULE. EXTEND COLD AND 140° HOT WATER PEX FROM MANIFOLD SHUTOFF ABOVE 3 COMP SINK DOWN IN WALL TO EQUIPMENT'S CONNECTION. INSTALL CONNECTION ENDS ON PEX SIZE AND TYPE TO COORDINATE WITH EQUIPMENT CONNECTION. SEE PEX RISERS AND KITCHEN CONNECTION SCHEDULE FOR MORE INFORMATION AND INSTALLATION DETAILS. COORDINATE WITH OWNERS REPRESENTATIVE & EQUIPMENT SUPPLIER.
9. PROVIDE CUT TO LENGTH PEX PIPING SIZED PER EQUIPMENT CONNECTION SCHEDULE. EXTEND COLD AND HOT WATER PEX FROM MANIFOLD ABOVE CEILING AT 3 COMP SINK TO EQUIPMENT'S CONNECTION. INSTALL CONNECTION ENDS ON PEX SIZE AND TYPE TO COORDINATE WITH EQUIPMENT CONNECTION. SEE PEX RISERS AND KITCHEN CONNECTION SCHEDULE FOR MORE INFORMATION AND INSTALLATION DETAILS. COORDINATE WITH OWNERS REPRESENTATIVE & EQUIPMENT SUPPLIER.
10. SITE CONTRACTOR TO FURNISH AND INSTALL WATER METER.
11. EXTEND 1/2" COLD WATER CUT TO LENGTH PEX LINE ABOVE CEILING FROM PEX MANIFOLD IN THE UTILITY ROOM DOWN TO APPROXIMATELY 30" +/- AFF FOR THE WATER CLOSET TANK CONNECTION. SEE RISER DIAGRAMS FOR DETAILS AND ARCHITECTURAL SHEETS FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH THE MANUFACTURER'S EQUIPMENT PRIOR TO ROUGH-IN.
12. EXTEND 3/4" COLD CPVC WATER LINE TO WATER FILTRATION SYSTEM ABOVE SINK. FURNISH AND INSTALL SHUT-OFF VALVES. INSTALL, HOOK UP AND COMMISSION WATER FILTRATION SYSTEM ITEM PER MANUFACTURER'S RECOMMENDATIONS.
13. DROP 3/4" HOT AND COLD LINES TO WATER HEATER.
14. FURNISH AND INSTALL CHECK VALVES IN THE COLD WATER SUPPLY TO PLUMBING FIXTURE/KITCHEN EQUIPMENT INDICATED. VALVES ARE TO BE LOCATED IN AN ACCESSIBLE LOCATION. GENERAL CONTRACTOR TO INSTALL VACUUM BREAKER AT CHEMICAL DISPENSING UNIT WHERE REQUIRED BY CODE.
15. EXTEND 1/2" HOT AND COLD WATER LINES DOWN TO 30" AFF FOR THE MOP SINK/FAUCET. MAKE ALL FINAL CONNECTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
16. 2" GAS LINE TO RISE UP IN WALL TO ABOVE CEILING.
17. DROP 2" GAS LINE DOWN TO WATER HEATER.
18. NOT USED
19. NOT USED
20. GAS SUPPLY EMERGENCY SHUTOFF VALVE BY GENERAL CONTRACTOR. VALVE TO BE INSTALLED PER LOCAL CODE REQUIREMENTS.

GENERAL NOTES

1. PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO EXECUTE THE PLUMBING WORK INDICATED ON THE DRAWINGS, AND AS REQUIRED BY LOCAL CODES AND ORDINANCES.
2. PAY ALL FEES AND ARRANGE FOR EXECUTION OF ALL TAPS, METERS WITH REQUIRED ENCLOSURES (IF ANY), ETC. INHERENT TO THE INSTALLATION OF NEW PLUMBING SERVICE.
3. PLUMBING WORK FOR THIS CONTRACT SHALL INCLUDE ALL PIPING FOR DOMESTIC HOT AND COLD WATER LINES, VENT AND SANITARY LINES, HOOK-UP OF ALL FIXTURES SCHEDULED ON THE DRAWINGS, AND INSULATION OF DESIGNATED PIPING RUNS. WORK SHALL ALSO INCLUDE ALL GAS PIPING AND EQUIPMENT CONNECTIONS WHERE REQUIRED.
4. ALL ITEMS SUCH AS FITTINGS, ETC. NOT MENTIONED BUT UNDERSTOOD TO BE NECESSARY TO COMPLETE THE PLUMBING SYSTEM SHALL BE INCLUDED.
5. SOIL, WASTE, AND VENT PIPING TO BE OF MATERIAL APPROVED BY LOCAL CODES. PVC, DWV PIPING AND FITTINGS TO BE SCHEDULE 40 AS A MINIMUM.
6. PROVIDE CLEANOUTS FOR SOIL AND WASTE LINES AS SHOWN ON DRAWINGS, AND OF TYPE APPROVED BY LOCAL CODES.
7. WALL WATER SUPPLY PIPING BELOW GROUND SHALL BE PEX PIPING UNLESS PROHIBITED BY LOCAL CODES IN WHICH CASE COPPER TUBING SHALL BE USED. (AVOID FITTINGS BELOW SLAB WHENEVER POSSIBLE). ALL WATER SUPPLY PIPING ABOVE GROUND SHALL BE CPVC TUBING U.N.O. PEX PIPING PASSING THROUGH CONCRETE SLABS SHALL BE SLEEVED WITH PVC BEND SUPPORT BY MANUFACTURER. PROVIDE UPONOR/WIRSBO SERIES: A5500500 FOR 1/2", PEX A5500750 FOR 3/4" PEX, A5501000 FOR 1" PEX. PROVIDE CORRUGATED PVC TUBING (1) PIPE DIAMETER LARGER THAN THE PEX TUBING FOR SIZES LARGER THAN 1" PEX.
8. PROVIDE FOR DRAINING WATER SYSTEM, AND CAP ALL STUBS UNTIL FINISH WORK IS INSTALLED. INSTALL DRAIN VALVE AT WATER METER WITH 3/4" HOSE THREAD AND VACUUM BREAKER.
9. PROVIDE STOPS ON WATER SUPPLIES TO EACH FIXTURE & EQUIPMENT.
10. GAS PIPING FOR HEATING SYSTEMS WITH GAS-FIRED EQUIPMENT SHALL BE INCLUDED IN THIS CONTRACT. GAS PIPING SHALL BE STANDARD WEIGHT, BLACK STEEL PIPE, SCHEDULE 40. PIPING EXPOSED TO ATMOSPHERE OR RUN BELOW GRADE SHALL HAVE POLYETHYLENE PLASTIC COATING. ALL GAS PIPING, FITTINGS AND INSTALLATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF UTILITY COMPANY AND ALL GOVERNING BODIES.
11. INSULATE ALL COLD AND HOT WATER PIPING WITH ARMSTRONG COMPANY ARMAFLEX "11" PIPE INSULATION. SEAL JOINTS WITH ARMSTRONG 520 ADHESIVE. IMPORTANT - HOLD ALL COLD AND HOT WATER PIPING TO WARM SIDE OF INSULATION TO PREVENT FREEZING. INSULATION SHALL MEET FLAME SPREAD AND SMOKE DEVELOPED RATINGS REQUIRED BY LOCAL CODES.
12. PLUMBING FIXTURES SHALL BE FURNISHED AND INSTALLED WHERE SHOWN ON THE DRAWINGS. ALL FIXTURE FITTINGS AND EXPOSED FIXTURE PIPING SHALL BE BRASS CHROMIUM PLATED. ALL TRAPS SHALL BE CAST BRASS. ALL FIXTURES SHALL BE EQUAL IN ALL RESPECTS TO FIXTURES SPECIFIED.
13. WATER METER TYPE IS TO BE PROVIDED AS REQUIRED BY LOCAL UTILITY COMPANY.
14. ROUGH-IN AND FINAL CONNECTIONS OF REQUIRED WASTE, VENT, AND WATER SUPPLY PIPING BY THIS CONTRACTOR. ALL SUPPLY PIPING SHALL BE VALVED.
15. HOSE BIBBS SHALL BE FREEZELESS AUTOMATIC DRAINING TYPE AS MANUFACTURED BY WOODFORD.
16. COORDINATE ALL WORK WITH OTHER CONTRACTORS.
17. THE BUILDING MANUFACTURER SHALL GUARANTEE ALL WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, (USUAL WEAR IS EXPECTED), AND SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE BUILDING BY THE OWNER, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS AND ALL DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER.
18. BACKFLOW PREVENTER TO BE INSTALLED WHEN REQUIRED BY LOCAL CODE.
19. SEE PLUMBING SHEETS FOR KITCHEN EQUIPMENT SCHEDULE, FIXTURE SCHEDULE, DETAILS AND SANITARY ISOMETRIC.
20. THE DIRECTION OF THE SANITARY MAIN AND THE LOCATION OF THE GREASE INTERCEPTOR SHALL BE COORDINATED WITH CIVIL DWGS PRIOR TO ROUGH-IN.
21. PROVIDE A TRAP PRIMER ON ALL FLOOR DRAINS. LAYOUT TRAP PRIMER DISTRIBUTION TO CONNECT MULTIPLE FLOOR DRAINS TO ONE TRAP PRIMER.
22. ALL COLD, HOT, AND FILTERED WATER LINES SHALL BE INSTALLED UNDER SLAB UNLESS NOTED OTHERWISE. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH-IN OF PIPING TO PREVENT CONFLICT.
23. COORDINATE LOCATION AND ROUGH-IN HEIGHT OF KITCHEN EQUIPMENT WITH OWNER AND MILLWORK PRIOR TO ROUGH-IN.
24. MAKE ALL CONNECTIONS TO KITCHEN AND MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED. USE MILL HARDWOOD 30B35 BRAIDED FLEXIBLE HOSES FOR ALL COUNTERTOP EQUIPMENT.
25. NOT USED
26. ALL PIPING (GAS AND WATER) TO BE CONCEALED IN WALL SPACE WHEN POSSIBLE.
27. ALL SHUT-OFF VALVES TO BE 1/4 TURN SHUT-OFF VALVES.
28. THIS BUILDING MANUFACTURER TO INSTALL PEX MANIFOLDS UNDER COUNTER SPACE AND SHALL BE MOUNTED AT 12" A.F.F. UNLESS NOTED OTHERWISE. COORDINATE LOCATION WITH OWNER.
29. ANY DAMAGES TO ANY EXISTING WALLS, FLOORS, FINISHES ETC. BY THIS CONTRACTOR ARE TO BE REPAIRED AT THIS CONTRACTOR'S EXPENSE.

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED OR COMMENTED BY
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:20

REV.	DATE	DESCRIPTION
1	12.2.25	Added PRV

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022074
PROFESSIONAL ENGINEER
Walter E. Wood
02-23-2 024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
WILLIAM CARTER & ASSOCIATES, INC.

SHEET NAME

PLUMBING WATER & GAS

SHEET NUMBER

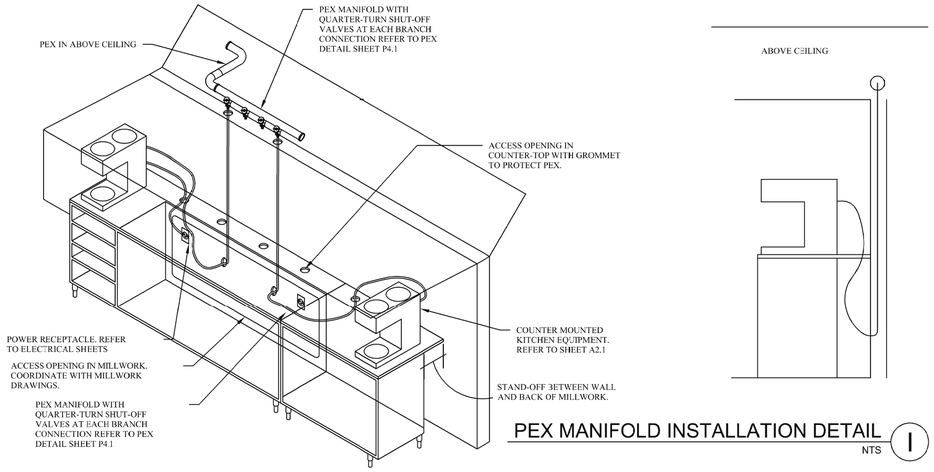
P3.1

RELEASE FOR CONSTRUCTION
AS NOTED OR APPROVED BY
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:32:20

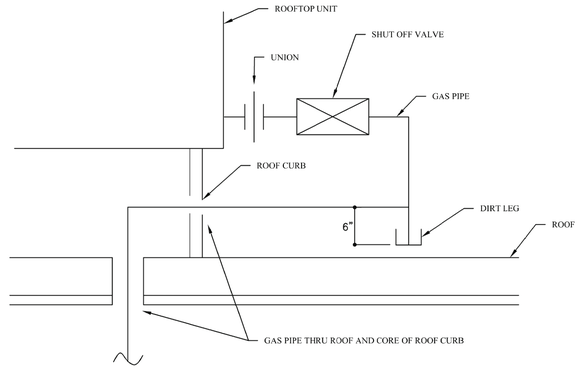
MK	DATE	DESCRIPTION

LAST DESIGN BULLETIN

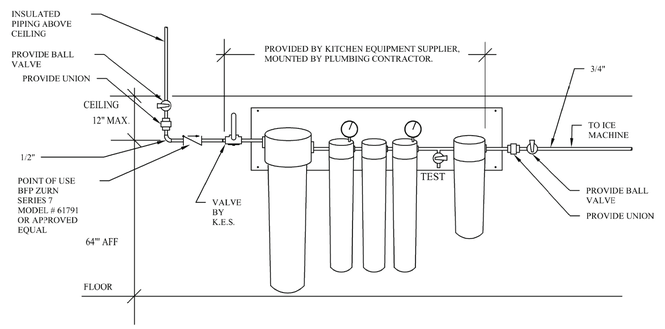
NUM.	DATE	DESCRIPTION



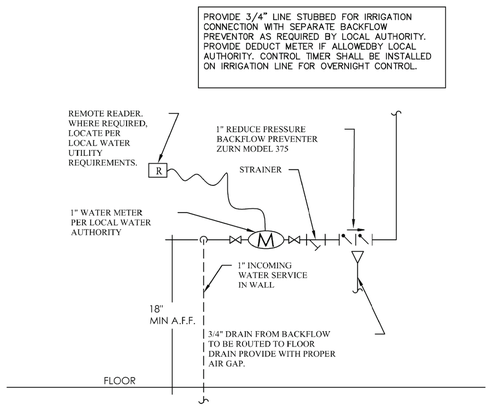
PEX MANIFOLD INSTALLATION DETAIL (I)
NTS



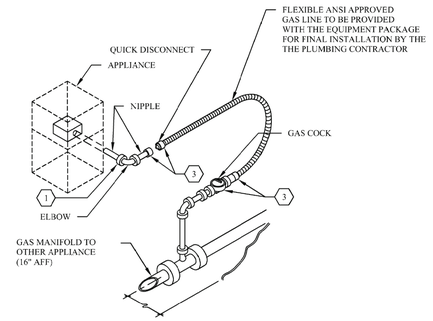
GAS PIPE THRU CURB DETAIL (F)
N.T.S



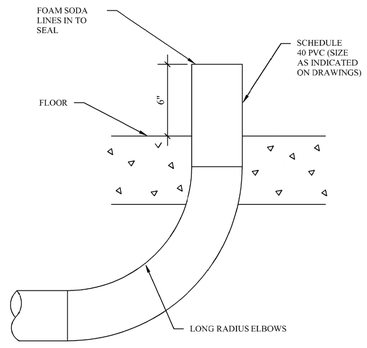
CENTRAL WATER FILTER SYSTEM (C)
N.T.S



WATER SERVICE ENTRY DETAIL (G)
N.T.S

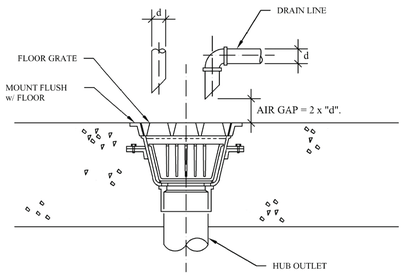


GAS/ QUICK DISCONNECT (E)
N.T.S



SODA CHASE DETAIL (D)
N.T.S

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING



FLOOR SINK DETAIL (A)
N.T.S

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2010022071
PROFESSIONAL ENGINEER
VALID
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

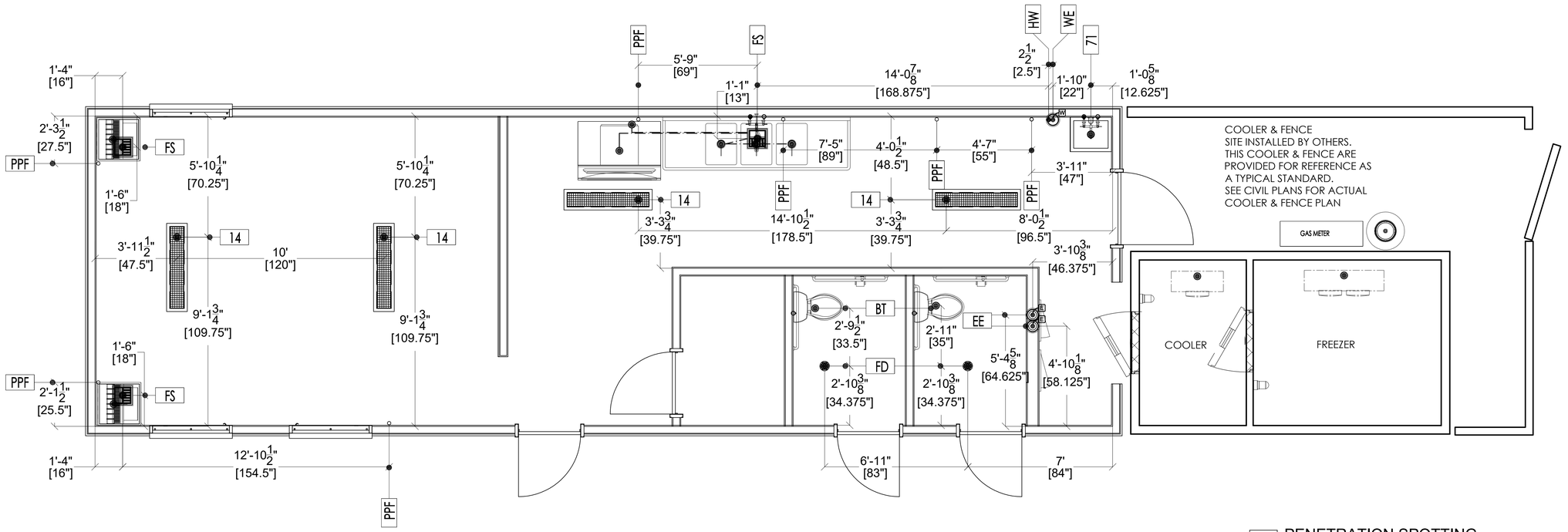
APPROVED
2-23-2024
HWC
HUBBARD WERNER CARTER & ASSOCIATES

SHEET NAME

PLUMBING DETAILS

SHEET NUMBER

P4.1



1 PENETRATION SPOTTING
3/8" = 1'-0"

Penetration Schedule					
Item Number	Count	Equipment Description	Description	Penetration Size	Penetration RI
14	4	Floor Trough Drain	47" x 8" Floor Trough	47.5" x 8.5"	-6"
71	1	Mop Sink	Penetration Drain	2"	0"
BT	2	Bathroom Toilet	Penetration Drain	2"	0"
EE	2	Electric Entrance	Penetration Entrance	4"	10"
FD	2	Floor Drain	Floor Drain	3"	-5"
FS	3	Floor Sink Half Grate	Floor Sink	3"	-8"
PPF	7	Pipe Penetration through Floor	Direct Drain	3"	6"
WE	1	Water Entrance	Penetration Entrance	1"	0"
HW	1	Hot Water Exit	Hot Water Penetration	.5"	0"

PENETRATION LEGEND

Plan	Elevation	Description
E	E	Electrical Stub-Up
G	G	Gas Line Stub-Up
W	W	Water Stub-Up
B	B	Beverage Stub-Up
		In Wall Direct Drain
		Fixture Drain
		Floor Drain Round & Square
		Funnel Floor Drain
		Floor Sink; 1/2 Grate, 3/4 Grate, Open Grate & Round

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED OR COMMENTED
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
By tdp at 2:20 pm, Feb 10, 2026

REV.	DATE	DESCRIPTION
R3	1/11/24	BATHROOM WIDTH GREW 2"
R2	1/11/24	FD ADDED OUTSIDE OFFICE

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP
STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
02-23-2024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED 2-23-2024 HWC

SHEET NAME
FLOOR PENETRATION

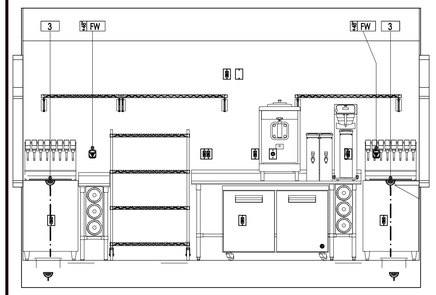
SHEET NUMBER
P5.1

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS AND LETTER
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:20

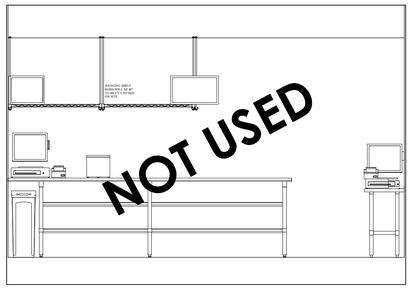
NUM.	DATE	DESCRIPTION
1	12.2.25	Added PRV

LAST DESIGN BULLETIN

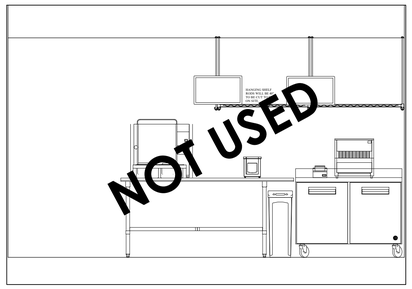
NUM.	DATE	DESCRIPTION



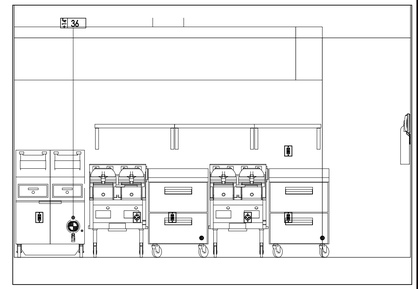
1 ELEVATION 1
3/8" = 1'-0"



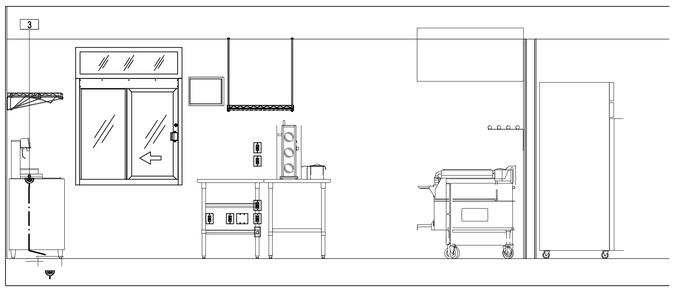
2 ELEVATION 2
3/8" = 1'-0"



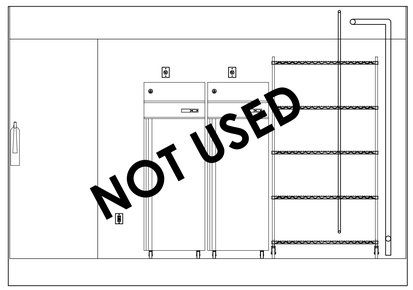
3 ELEVATION 3
3/8" = 1'-0"



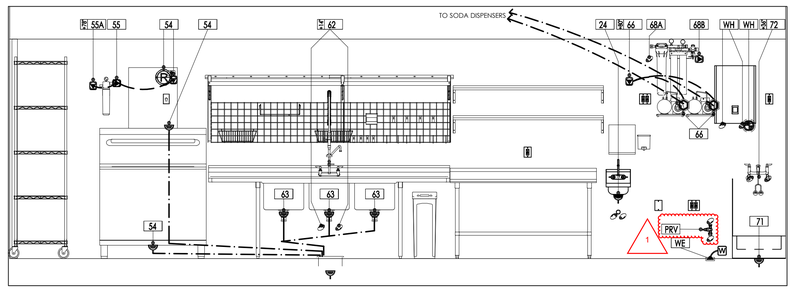
4 ELEVATION 4
3/8" = 1'-0"



5 ELEVATION 5
3/8" = 1'-0"



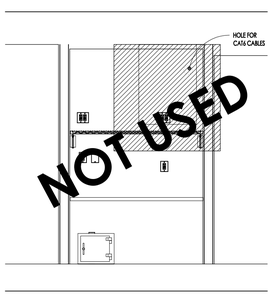
6 ELEVATION 6
3/8" = 1'-0"



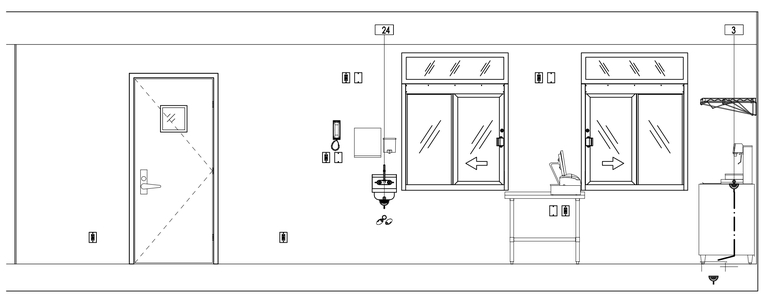
7 ELEVATION 7
3/8" = 1'-0"

PLUMBING LEGEND

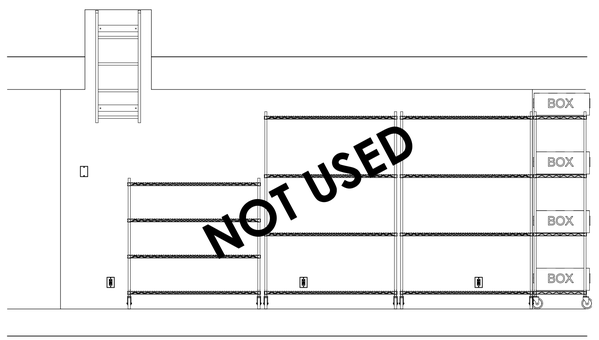
Plan	Elevation	Description
		Hotwater Connection Point
		Coldwater Connection Point
		In Wall Direct Drain
		Hot&Cold Water w/Direct Drain
		Filtered Water Stub
W	W	Water Stub-Up
		Plumbing Connection Point
		Gas Supply Line
G	G	Gas Stub-Up
B	B	Beverage Stub-Up
		Fixture Drain
		Water Lines
		Gas Lines
		Waste Lines
		Floor Drain Round & Square
		Funnel Floor Drain
		Floor Sink: 1/2 Grate, 3/4 Grate, Open Grate & Round



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



9 ELEVATION 9
3/8" = 1'-0"

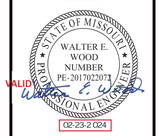


10 ELEVATION 10
3/8" = 1'-0"

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP



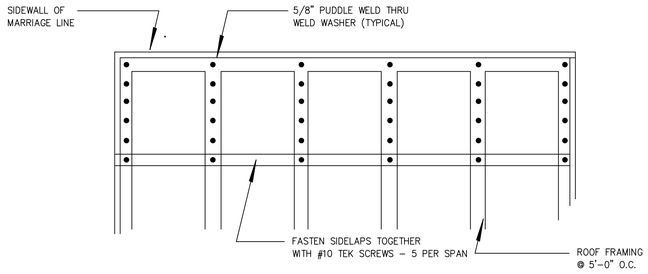
Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

SHEET NAME

PLUMBING ELEVATIONS

SHEET NUMBER

P6.1



NOTE:

Roof Deck Fasting At All Panels

NTS

STRUCTURAL NOTES:

1. ALL LIGHT GAGE STUDS, JOISTS, AND ACCESSORIES SHALL BE FORMED FROM ZINC COATED CORROSION RESISTANT STEEL IN ACCORDANCE WITH ASTM A1003-00 AND THE MANUFACTURER'S SPECIFICATIONS, ALL COLD FORMED MEMBERS SHALL BE BY UNIMAST, INC. OR EQUAL. 12, 14, AND 16 GAGE MINIMUM YIELD STRENGTH SHALL BE 50 KSI. 18 AND 20 GAGE MINIMUM YIELD STRENGTH SHALL BE 33 KSI.

2. WALL STUDS SHALL BE LATERALLY BRACED BY ATTACHMENT OF GYPSUM WALL BOARD ON INTERIOR SURFACES AND STRUCTURAL SHEATHING OR EXTERIOR FINISH MATERIAL ON EXTERIOR SURFACES.

3. STEEL TUBES SHALL HAVE A MINIMUM YIELD STRENGTH OF 46 KSI IN ACCORDANCE WITH ASTM A500 GRADE B.

4. HOT ROLLED STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 KSI IN ACCORDANCE WITH ASTM A36.

5. WELDS ON BASE METALS LESS THAN 1/8 INCH THICK SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.3 ALL OTHER WELDS SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.1.

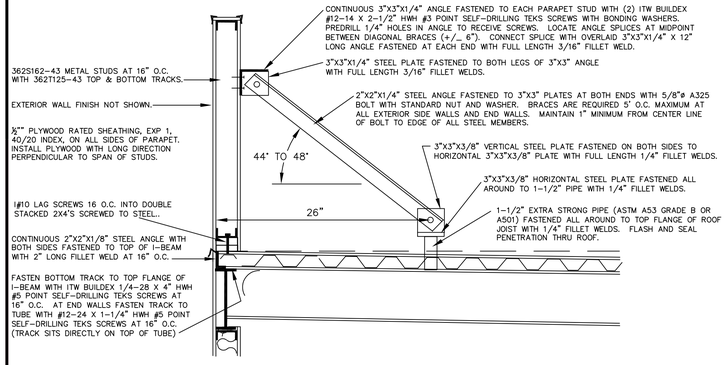
6. WELDS ON HOT ROLLED STEEL SHALL BE SMAW WITH E70XX ELECTRODES. UNLESS OTHERWISE SPECIFIED FILLET WELDS SHALL BE THE SAME THICKNESS OF THE BASE METAL FOR METALS UP TO 1/4 INCH THICK, AND THE THICKNESS OF THE BASE METAL MINUS 1/16 INCH FOR METALS 1/4 INCH OR MORE IN THICKNESS.

7. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION GROOVE WELDS UNLESS OTHERWISE SPECIFIED.

8. ALL METAL SCREWS SHALL BE TEKS #10 SELF-DRILLING SCREWS BY ITW BUILDEX OR EQUAL UNLESS OTHERWISE SPECIFIED. ALL SCREWS SHALL PENETRATE CONNECTING METAL PARTS BY 3 OR MORE EXPOSED THREADS.

9. ALL METAL DECKING SHALL BE BY VULCRAFT, OR EQUAL. METAL DECKING SHALL BE IN ACCORDANCE WITH THE "STEEL DECK INSTITUTE" STANDARDS.

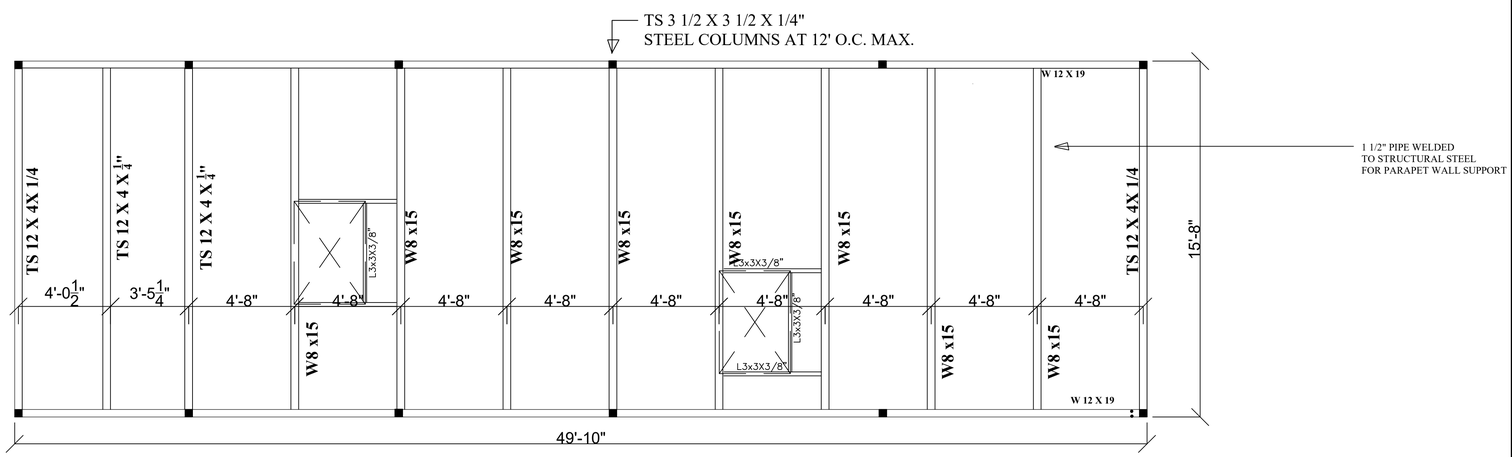
10. ALL BOLTS SHALL COMPLY WITH ASTM A325 UNLESS OTHERWISE SPECIFIED. 5/8" SAE GRADE 8 BOLTS ARE AN ACCEPTABLE ALTERNATIVE.



ROOF PARAPET DETAIL

NTS

Dead load of container above = 28.1 psf (9 kip)



ROOF FRAMING

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

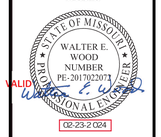
RELEASE FOR CONSTRUCTION
AS NOTED OR ATTACHED BY
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
MEV DATE DESCRIPTION
02/12/2026 11:13:20

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER
STAMP



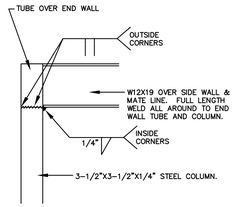
Third Party: HWC & Ase. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

SHEET NAME

ROOF
PLAN
STEEL

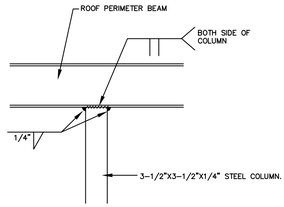
SHEET NUMBER

S2.1



ELEVATION VIEW FROM SIDE WALL OF END WALL CORNER & MATE LINE BEAM TO COLUMN CONNECTION

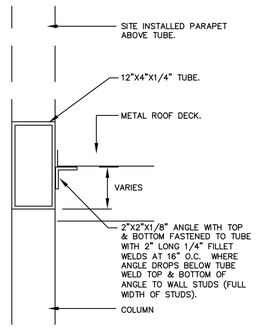
TYPICAL AT ALL END WALL COLUMNS. NTS



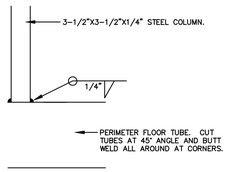
ELEVATION VIEW OF SIDE WALLS AND MATE LINE BEAM TO COLUMN CONNECTION

TYPICAL AT ALL EXTERIOR SIDE WALL AND MATE WALL COLUMNS NOT LOCATED AT END WALLS.

NTS



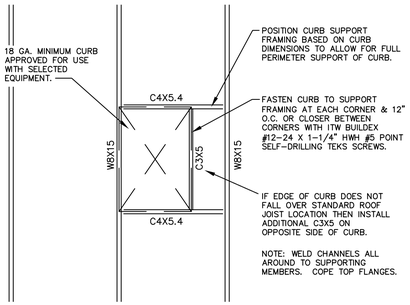
NTS



ELEVATION VIEW OF COLUMN TO FLOOR CONNECTION

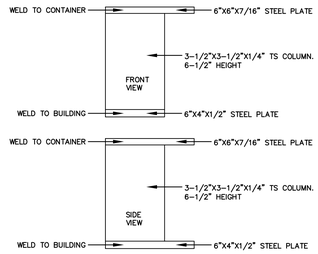
TYPICAL AT ALL COLUMNS.

NTS



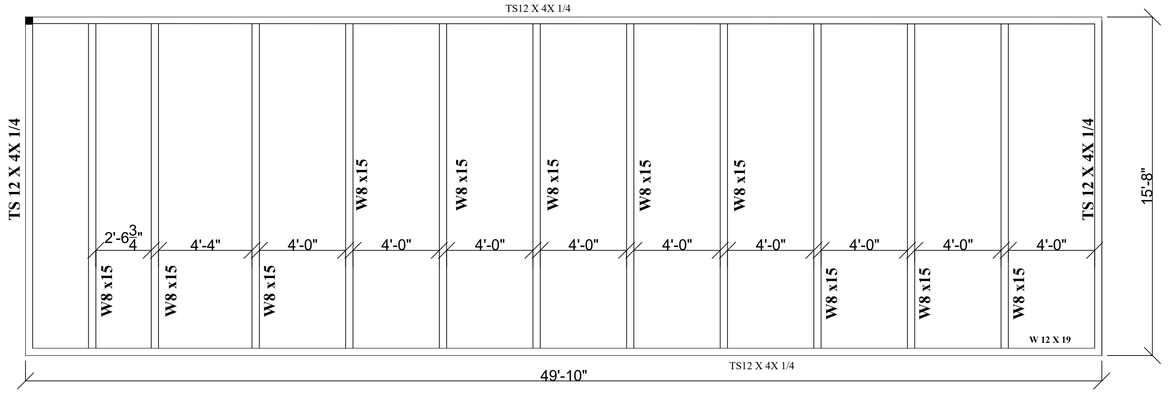
ROOF FRAMING AT HVAC & MUA CURBS

NTS



BUILDING & CONTAINER ATTACHMENT DETAIL

NTS



Floor FRAMING

STRUCTURAL NOTES:

1. ALL LIGHT GAGE STUDS, JOISTS, AND ACCESSORIES SHALL BE FORMED FROM ZINC COATED CORROSION RESISTANT STEEL IN ACCORDANCE WITH ASTM A1003-00 AND THE MANUFACTURER'S SPECIFICATIONS, ALL COLD FORMED MEMBERS SHALL BE BY UNIMAST, INC. OR EQUAL. 12, 14, AND 16 GAGE MINIMUM YIELD STRENGTH SHALL BE 50 KSI. 18 AND 20 GAGE MINIMUM YIELD STRENGTH SHALL BE 33 KSI.

2. WALL STUDS SHALL BE LATERALLY BRACED BY ATTACHMENT OF GYPSUM WALL BOARD ON INTERIOR SURFACES AND STRUCTURAL SHEATHING OR EXTERIOR FINISH MATERIAL ON EXTERIOR SURFACES.

3. STEEL TUBES SHALL HAVE A MINIMUM YIELD STRENGTH OF 46 KSI IN ACCORDANCE WITH ASTM A500 GRADE B.

4. HOT ROLLED STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 KSI IN ACCORDANCE WITH ASTM A36.

5. WELDS ON BASE METALS LESS THAN 1/8 INCH THICK SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.3 ALL OTHER WELDS SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.1.

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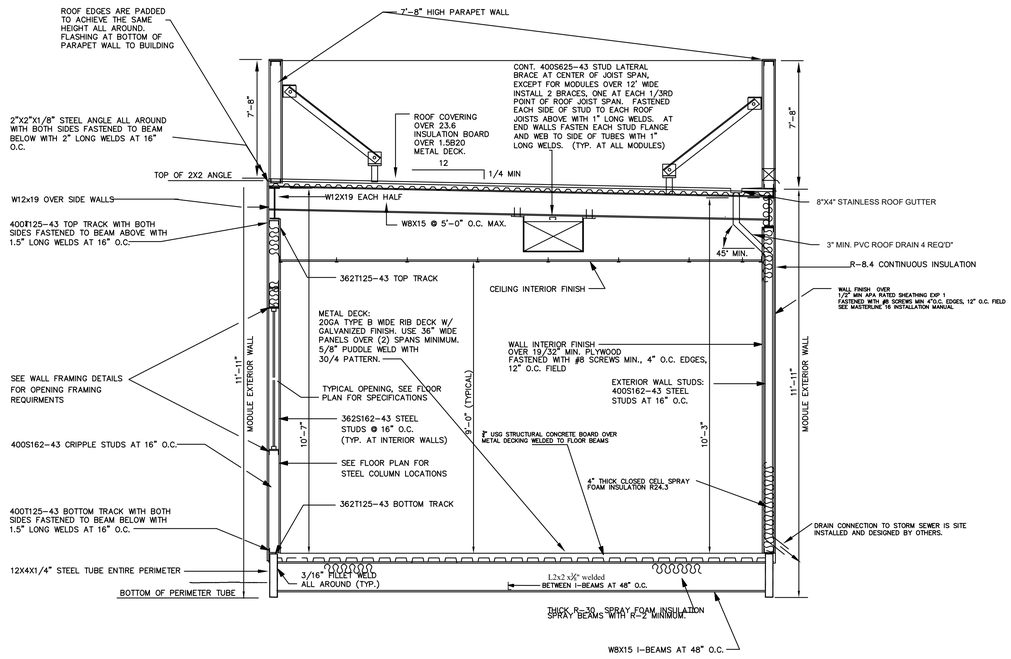
7. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION GROOVE WELDS UNLESS OTHERWISE SPECIFIED.

8. ALL METAL SCREWS SHALL BE TEKS #10 SELF-DRILLING SCREWS BY ITW BUILDEX OR EQUAL UNLESS OTHERWISE SPECIFIED. ALL SCREWS SHALL PENETRATE CONNECTING METAL PARTS BY 3 OR MORE EXPOSED THREADS.

9. ALL METAL DECKING SHALL BE BY VULCRAFT, OR EQUAL. METAL DECKING SHALL BE IN ACCORDANCE WITH THE "STEEL DECK INSTITUTE" STANDARDS.

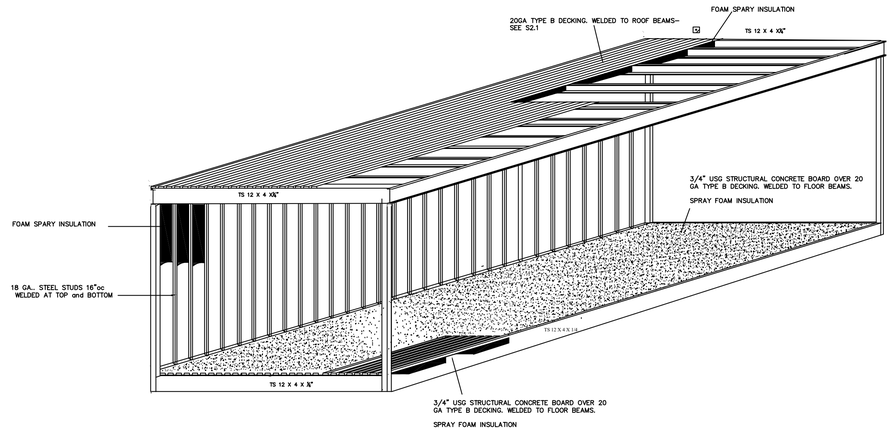
10. ALL BOLTS SHALL COMPLY WITH ASTM A325 UNLESS OTHERWISE SPECIFIED. 5/8" SAE GRADE 8 BOLTS ARE AN ACCEPTABLE ALTERNATIVE.

MISSOURI PUBLIC SERVICE COMMISSION APPROVED 02/10/2026 MANUFACTURED HOUSING



CROSS SECTION - MODULE A

SCALE: 3/8" ≈ 1'-0"



WALL AIR BARRIERS – EXTERIOR AND INTERIOR PLYWOOD, CEMENT BOARD AND CLOSED CELL FOAM SPRAY

ROOF AIR BARRIER – STEEL DECK AND MEMBRANE ROOF SEALED

FLOOR AIR BARRIER – STEEL DECK AND CLOSED CELL SPRAY FOAM

CONTINUOUS AIR BARRIER IN THERMAL ENVELOPE SHALL BE WRAPPED, SEALED WITH FOAM, CAULKED, GASKETED, AND /OR TAPED INCLUDING DOORS WINDOWS.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEWED BY DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
MK 02/12/2026 11:13:20

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR
VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2 024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

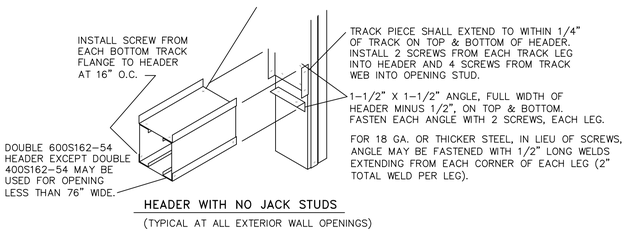
APPROVED
2-23-2024
HWC
HOUSING WERNER CARTER & ASSOCIATES

SHEET NAME

FLOOR FRAMING PLAN

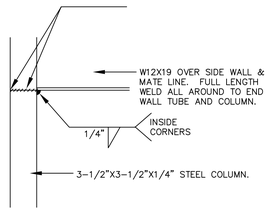
SHEET NUMBER

S2.2



HEADER WITH NO JACK STUDS

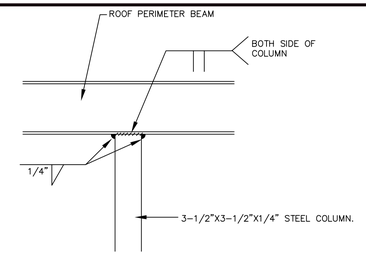
(TYPICAL AT ALL EXTERIOR WALL OPENINGS)



ELEVATION VIEW FROM SIDE WALL OF END WALL CORNER & MATE LINE BEAM TO COLUMN CONNECTION

TYPICAL AT ALL END WALL COLUMNS.

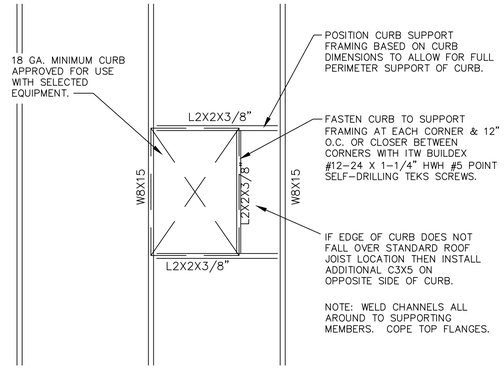
-NTS.-



ELEVATION VIEW OF SIDE WALLS AND MATE LINE BEAM TO COLUMN CONNECTION

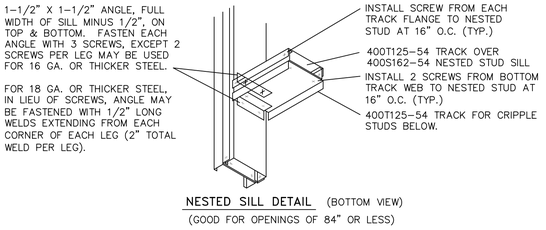
TYPICAL AT ALL EXTERIOR SIDE WALL AND MATE WALL COLUMNS NOT LOCATED AT END WALLS.

-NTS.-



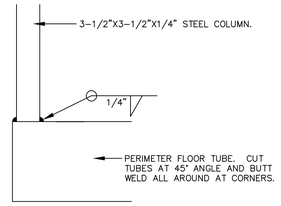
ROOF FRAMING AT HVAC & MUA CURBS

-NTS.-



NESTED SILL DETAIL (BOTTOM VIEW)

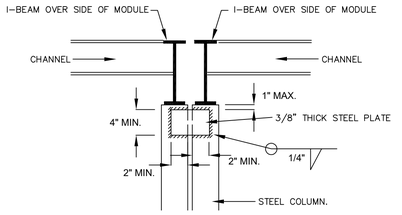
(GOOD FOR OPENINGS OF 84" OR LESS)



ELEVATION VIEW OF COLUMN TO FLOOR CONNECTION

TYPICAL AT ALL COLUMNS.

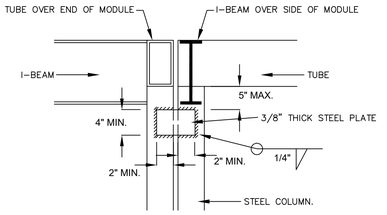
-NTS.-



MATE LINE BEAM TO BEAM CONNECTIONS

SITE CONNECTION AT COLUMNS

-NTS.-



MATELINE TUBE TO BEAM CONNECTIONS

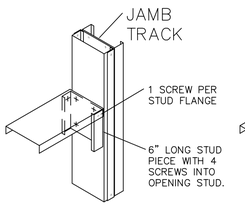
SITE CONNECTION AT COLUMNS

-NTS.-

SITE CONNECTION NOTES:

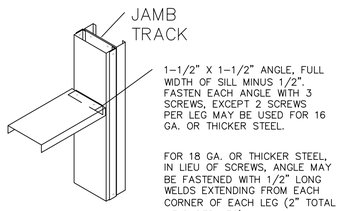
1. SITE INSTALL A STEEL PLATE ACROSS MATE LINE AS SHOWN ABOVE AT ALL MATE LINE COLUMNS.

2. IN LIEU OF DIRECT COLUMN TO COLUMN SITE CONNECTIONS, STEEL PLATES MAY BE WELDED TO BOTTOM SIDE OF MATE LINE OR END WALL ROOF BEAMS WHERE BOTTOM OF ADJACENT BEAMS ARE FLUSH. INSTALL PLATES WITHIN 12 INCHES OF COLUMNS.



SINGLE TRACK SILL DETAIL

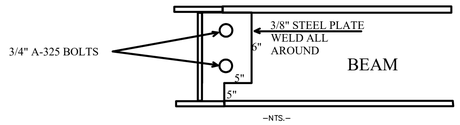
(GOOD FOR OPENINGS OF 50" OR LESS)



ALTERNATE SINGLE TRACK SILL DETAIL

(GOOD FOR OPENINGS OF 50" OR LESS)

ROOF BEAM CONNECTIONS TO SIDE WALL BEAM



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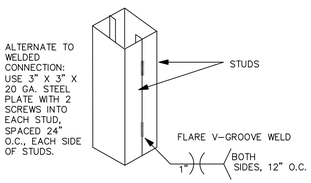
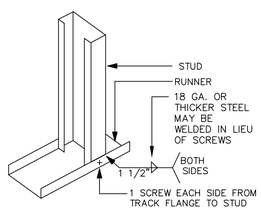


MULTIPLE STUD ATTACHMENT

-NTS.-

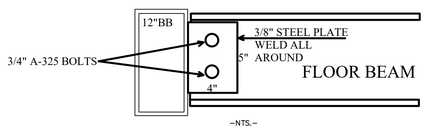


STUD TO TRACK ATTACHMENT

TYPICAL AT TOP & BOTTOM OF WALL

-NTS.-

FLOOR BEAM CONNECTIONS TO SIDE WALL BEAM



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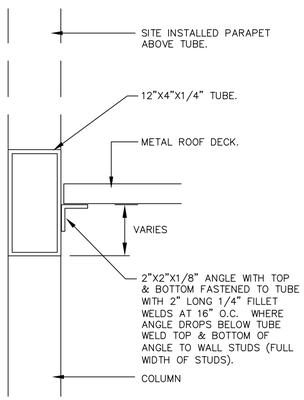
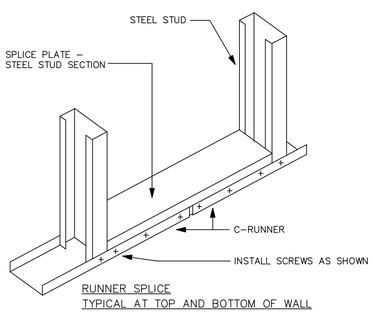


SECTION A-A

END WALL ROOF

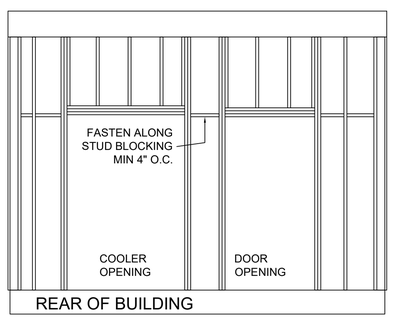
-NTS.-



RUNNER SPLICE

TYPICAL AT TOP AND BOTTOM OF WALL

-NTS.-



STUD BLOCKING DETAIL

REAR OF BUILDING ONLY

-NTS.-

RELEASE FOR CONSTRUCTION
AS NOTED OR QUALIFIED BY DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
NO. DATE DESCRIPTION
02/12/2026 11:32:20

LAST DESIGN BULLETIN

NUM.	DATE	DESCRIPTION

ALIANT MODULAR

VALIANT MODULAR, LLC
15 WEST TOWER CIRCLE, ORMOND BEACH, FL 32174
(386) 677-9316

ENGINEER STAMP

STATE OF MISSOURI
WALTER E. WOOD
NUMBER PE-2017022073
PROFESSIONAL ENGINEER
VALID
02-23-2 024

Third Party: HWC & Asc. Inc.
1627 SouthMyrtle Ave.
Clearwater, Fl. 34616
(717)-584-8151

APPROVED
2-23-2024
HWC
WERNER CARTER & ASSOCIATES

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
02/10/2026
MANUFACTURED HOUSING

SHEET NAME

FRAMING DETAIL

SHEET NUMBER

S2.3

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:20

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
02/10/2026
MANUFACTURED
HOUSING

COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2019) Standard
Project Title:	Slider Drive-Thru
Location:	Lees Summit, Missouri
Climate Zone:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	2%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_MO_Kansas.City.Intl.AP.724460_TMY3.epw)

Construction Site:
Lees Summit, Missouri

Owner/Agent:

Designer/Contractor:
Valiant Equipment, LLC
15 West Tower Circle
Ormond Beach 32174
386-677-9316

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	952

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Floor 1: Concrete Floor (over unconditioned space), [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	800	---	30.0	0.030	0.057
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	800	---	23.6	0.041	0.032
NORTH					
Right Elevation Wall - Tile Finish: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	600	24.3	8.4	0.053	0.064
(3) Doors 101: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	63	---	---	0.500	0.370
Drive Thru Window: Metal Frame: Operable, Perf. Specs.: Product ID aa, SHGC 0.27, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	19	---	---	0.290	0.450
EAST					
Front Elevation Wall - Tile Finish: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	192	24.3	8.4	0.053	0.064
SOUTH					
Left Elevation Wall - Tile Finish: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	600	24.3	8.4	0.053	0.064
Drive Thru Window: Metal Frame:Operable, Perf. Specs.: Product ID aa, SHGC 0.27, PF 1.00, VT 0.62, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	19	---	---	0.290	0.450
WEST					
Rear Elevation Wall - E.I.F.S. Finish: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	192	24.3	8.4	0.053	0.064
Door 101.5: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	22	---	---	0.500	0.370

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/12/2026 11:13:20

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Walter E. Wood, P.E.	VALID	2-6-2026
Name - Title	Signature	Date

STATE OF MISSOURI · WALTER E. WOOD · NUMBER PE-2017022072 · PROFESSIONAL ENGINEER

APPROVED · HILBORN, WERNER, CARTER & ASSOCIATES, INC. · 2-9-2026 · HWC

MISSOURI
PUBLIC SERVICE
COMMISSION
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

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Project Information

Energy Code: 90.1 (2019) Standard
Project Title: Slider Drive-Thru
Project Type: New Construction

Construction Site:
Lees Summit, Missouri

Owner/Agent:

Designer/Contractor:
Valiant Equipment, LLC
15 West Tower Circle
Ormond Beach 32174
386-677-9316

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Dining: Cafeteria/Fast Food	952	0.76	724
		Total Allowed Watts =	724

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 1: LED Other Fixture Unit 46W:	1	12	35	420
LED 2: LED Other Fixture Unit 46W:	1	7	35	245
LED 3: LED A Lamp 12W:	1	3	12	36
			Total Proposed Watts =	701

Interior Lighting PASSES: Design 3% 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 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Walter E. Wood, P.E. — Name - Title

VALID — Signature

2-6-2026 — Date

STATE OF MISSOURI
WALTER E. WOOD
NUMBER
PE-2017022072
PROFESSIONAL ENGINEER

APPROVED
2-9-2026
HWC
HILBORN, WERNER, CARTER & ASSOCIATES, INC.

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Exterior Lighting Compliance Certificate

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Project Information

Energy Code:	90.1 (2019) Standard
Project Title:	Slider Drive-Thru
Project Type:	New Construction
Exterior Lighting Zone	2 (Neighborhood business district (LZ2))

Construction Site:
Lees Summit, Missouri

Owner/Agent:

Designer/Contractor:
Valiant Equipment, LLC
15 West Tower Circle
Ormond Beach 32174
386-677-9316

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits	2 ft of door	14	Yes	28
Drive-up windows/doors	2 windows	200	No	400
			Total Tradable Watts (a) =	28
			Total Allowed Watts =	428
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Pedestrian and vehicular entrances and exits (2 ft of door width): Tradable Wattage				
LED 1: LED Linear 22W:	1	2	22	44
Drive-up windows/doors (2 windows or doors): Non-tradable Wattage				
LED 3: LED Other Fixture Unit 80W:	1	2	75	150
			Total Tradable Proposed Watts =	44

Exterior Lighting PASSES: Design 90% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Walter E. Wood, P.E. — Name - Title

VALID — Signature

2-6-2026 — Date

STATE OF MISSOURI · WALTER E. WOOD · NUMBER PE-2017022072 · PROFESSIONAL ENGINEER

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COM*check* Software Version COMcheckWeb
Mechanical Compliance Certificate

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Project Information

Energy Code:	90.1 (2019) Standard
Project Title:	Slider Drive-Thru
Location:	Lees Summit, Missouri
Climate Zone:	4a
Project Type:	New Construction

Construction Site:
Lees Summit, Missouri

Owner/Agent:

Designer/Contractor:
Valiant Equipment, LLC
15 West Tower Circle
Ormond Beach 32174
386-677-9316

Mechanical Systems List

Quantity	System Type & Description
1	HVAC System 1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 147 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE) Cooling: 1 each - Single Package DX Unit, Capacity = 264 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 18.20 EER, Required Efficiency = 9.80 EER Proposed Part Load Efficiency = 13.20 IEER, Required Part Load Efficiency = 13.00 IEER
1	Water Heater 3: Electric Instantaneous Water Heater, Capacity: 2 gallons No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

STATE OF MISSOURI · WALTER E. WOOD · NUMBER PE-2017022072 · PROFESSIONAL ENGINEER

Walter E. Wood, P.E.	VALID	2-6-2026
Name - Title	Signature	Date

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Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 97.0% were addressed directly in the COM*check* 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
4.2.2, 5.4.3.1.1, 5.7 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 6.4.4.2.1, 6.7.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 7.7.1, 10.4.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 9.4.3, 9.7 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
9.7 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.5.2 [PR5][1]	Commissioning shall be performed as stated in Sections 5.9.2, 6.9.2, 7.9.2, 8.9.2, 9.9.2, 10.9.2, 11.2(d), and G1.2.1(c). Commissioning must utilize ASHRAE/IES Standard 202 or other generally accepted engineering standards acceptable to the building official. FPT and verification requirements for commissioning are as stated in Section 4.2.5.1. Commissioning shall document compliance of the building systems, controls, and building envelope with required provisions of this standard. Commissioning requirements shall be incorporated into the construction documents.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Buildings, additions, or alterations with less than 10,000 ft2 of conditioned space and combined heating, cooling, and service water heating equipment totaling less than 960,000 Btu/h in capacity.

Additional Comments/Assumptions:

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Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [FO1][2]	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-_____	R-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
4.2.4 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-_____ ☐ Unheated ☐ Heated	R-_____ ☐ Unheated ☐ Heated	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.7 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.7.3 [FO7][1]	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.7 [FO9][3]	Freeze protection and snow/ice melting system sensors for future connection to controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.1.5 [FO11][3]	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R-_____	R-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1][3]	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.5.4.3a [FR8][1]	Vertical fenestration U-Factor.	U-_____	U-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.3b [FR9][1]	Skylight fenestration U-Factor.	U-_____	U-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.1 [FR10][1]	Vertical fenestration SHGC value.	SHGC:_____	SHGC:_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.2 [FR11][1]	Skylight SHGC value.	SHGC:_____	SHGC:_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12][2]	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.2.2 [FR13][1]	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.5.3.6 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-_____ ☐ Swinging ☐ Nonswinging	U-_____ ☐ Swinging ☐ Nonswinging	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.4.3.1 [FR15][1]	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1][2]	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:_____	Efficiency:_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
6.4.3.4.1 [ME3][3]	Stair and elevator shaft vents have motorized dampers that automatically close.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.2, 6.4.3.4.3 [ME4][3]	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.4.5 [ME39][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.4 [ME5][3]	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.8 [ME6][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.
6.5.3.2.1 [ME40][2]	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= ¼ designed to vary supply fan airflow as a function of load and comply with operational requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
6.4.4.1.1 [ME7][3]	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.4.1.2 [ME8][2]	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R-_____	R-_____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.4.1.3 [ME9][2]	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	_____ in.	_____ in.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.4.1.4 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.1 [ME10][2]	Ducts and plenums having pressure class ratings are Seal Class A construction.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.8.1-15, 6.8.1-16 [ME110][2]	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.4.2.2 [ME11][3]	Ductwork operating >3 in. water column requires air leakage testing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.1.5 [ME16][1]	Economizer operation will not increase heating energy use during normal operation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.5.2.3 [ME19][3]	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.2.4.1 [ME68][3]	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.2.4.2 [ME69][3]	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated >= R-0.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.2.5 [ME70][3]	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.2.6 [ME106][3]	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.3.3 [ME42][3]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values.*

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.4.2 [ME25][3]	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2.1 [ME32][2]	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.2.4 [ME49][3]	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.8.1 [ME34][2]	Unenclosed spaces that are heated use only radiant heat.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.9 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h – 15% >240 kBtu/h – 10%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
7.4.2 [ME36][2]	Service water heating equipment meets efficiency requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.3.9 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.10 [ME73][3]	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Building entrances have automatic closing devices.

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Space type is not private office, open office, or computer classroom.
8.4.3 [EL11][2]	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
9.4.1.1 [EL1][2]	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1 [EL2][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1f [EL13][1]	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
9.4.1.4 [EL3][2]	Automatic lighting controls for exterior lighting installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.3 [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.
9.6.2 [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.
10.4.1 [EL9][2]	Electric motors meet requirements where applicable.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	R-____ ☐ Above deck ☐ Metal ☐ Attic	R-____ ☐ Above deck ☐ Metal ☐ Attic	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2, 5.8.1.3 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.4 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.4 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN9][2]	Floor insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.9 [IN18][2]	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.4 [IN11][2]	Eaves are baffled to deflect air to above the insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.5 [IN12][2]	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.6 [IN13][2]	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.1 [IN15][2]	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.7.2 [IN16][2]	Foundation vents do not interfere with insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
5.8.1.8 [IN17][3]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1][1]	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.1.2 [FI3][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.2 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3.1 [FI21][3]	HVAC systems equipped with at least one automatic shutdown control.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3.2 [FI22][3]	Setback controls allow automatic restart and temporary operation as required for maintenance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.12 [FI200][3]	Air economizer has a fault detection and diagnostics (FDD) system (see details for configuration and operational requirements).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.6 [FI6][3]	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.1 [FI7][3]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.2 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.3 [FI9][1]	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
7.4.4.3 [FI11][3]	Public lavatory faucet water temperature <=110°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.1 [FI16][3]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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8.7.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][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	*See the Interior Lighting fixture schedule for values.*
9.4.2 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
9.4.4 [FI20][1]	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
10.4.3 [FI24][2]	Elevators are designed with the proper lighting, ventilation power, and standby mode.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
7.4.3 [FI45][2]	First 8 ft of outlet piping in nonrecirculating storage system, or branch piping connected to recirculated, heat traced, or impredance heated piping is insulated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

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