RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
03/10/2025

QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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P,M,E SHEETS

VICINITY MAP

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
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BUILDING CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL PLUMBING CODE
NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS

ACCESSIBILITY:
2010 ADA GUIDELINES
2009 ICC/ANSI A117.1

OCCUPANCY GROUP

GROUP: M

TYPE OF CONSTRUCTION

TYPE: V - B

BUILDING HEIGHT AND AREA

ALLOWABLE HEIGHT:	1 STORY	40 FEET
ACTUAL HEIGHT:	1 STORY	20 FEET
ALLOWABLE AREA:	9,000 S.F.	
ACTUAL AREA:	4,996 S.F.	

FIRE RESISTIVE REQUIREMENTS
(TABLE 601)

BUILDING ELEMENTS	TYPE V - B
BEARING WALLS - EXTERIOR	0
BEARING WALLS - INTERIOR	0
NONBEARING WALLS - EXTERIOR	0
STRUCTURAL FRAME	0
FLOORS CONSTRUCTION	0
ROOFS CONSTRUCTION	0

OCCUPANCY LOAD

AREA	SQUARE FOOT	SQFT/OCCUPANT	OCCUPANT
GRADE FLOOR	3,369	60 GROSS	57 (56.15)
STORAGE	1,627	300 GROSS	6 (5.42)
TOTAL			73

BUILDING ACCESSIBILITY REQUIREMENTS

ACCESSIBLE MEANS OF EGRESS

REQUIRED MEANS OF EGRESS: 2
PROVIDED MEANS OF EGRESS: 3

ACCESSIBLE POINTS OF SALE (P.O.S.)

REQUIRED ACCESSIBLE P.O.S.: 1
PROVIDED ACCESSIBLE P.O.S.: 1

BUILDING EXITING REQUIREMENTS (SEE FLOOR PLANS FOR PROVIDED CALCULATIONS)

NUMBER OF EXITS

REQUIRED EXITS: 2
PROVIDED EXITS: 3

EXIT ACCESS TRAVEL DISTANCE

MAX TRAVEL DISTANCE: 200 FT
PROVIDED TRAVEL DISTANCE: 70 FT

COMMON PATH OF TRAVEL

MAX TRAVEL DISTANCE: 75 FEET
PROVIDED TRAVEL DISTANCE: 55 FEET

AUTOMATIC SPRINKLER SYSTEM

NOT REQUIRED PER IBC

PLUMBING REQUIREMENTS

TOTAL OCCUPANT LOAD = 73
MEN (73/ 2) = 37
WOMEN (73 / 2) = 37

MEN	REQUIRED	PROVIDED
WATER CLOSET (1/500)	1	2
URINALS (NOT REQ'D)	0	2
LAVATORIES (1/750)	1	2
WOMEN	**REQUIRED**	**PROVIDED**
WATER CLOSET (1/500)	1	3
LAVATORIES (1/750)	1	2
SERVICE SINK (1/10000)	1	1

FIRE EXTINGUISHER

CLASS A FIRE/SECTION 13

FIRES IN ORDINARY COMBUSTIBLE MATERIALS, SUCH AS WOOD, CLOTH, PAPER, RUBBER, AND MANY PLASTIC.

ORDINARY (MODERATE) HAZARD/SECTION 1-5.2

THESE OCCUPANCIES COULD CONSIST OF OFFICES, CLASSROOMS, MERCANTILE, SHOPS, AND ALLIED STORAGE.

TABLE 3-2.1
MIN RATED SINGLE FIRE EXTINGUISHER: 2A
MAX FLOOR AREA PER UNIT OF A: 1,500 SF
MAX FLOOR AREA FOR EXTINGUISHER: 11,250 SF
MAX TRAVEL DISTANCE TO EXTINGUISHER: 75 FEET

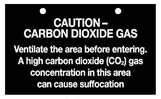
TABLE E 3-4
PROVIDE A MINIMUM OF THREE (3) CLASS 2A RATED EXTINGUISHERS (2A-10BC/10LB) AT 3,000 SF PER EXTINGUISHER FOR A TOTAL COVERAGE OF 9,000 SF. COORDINATE LOCATION AND QUANTITY WITH LOCAL FIRE DEPARTMENT

NOTES:
1. FIRE EXTINGUISHERS SCHEDULED ARE FOR INTERIOR USE AS REQUIRED BY NFPA 10. FINAL LOCATIONS OF ALL PORTABLE FIRE EXTINGUISHERS ARE TO BE COORDINATED BY THE QUIKTRIP REPRESENTATIVE WITH THE LOCAL GOVERNING AUTHORITY.
2. FIRE EXTINGUISHERS TO MEET LOCAL GOVERNING CODES WILL BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. VERIFY SIZE OF EXTINGUISHERS WITH QUIKTRIP REPRESENTATIVE.
3. FIRE EXTINGUISHER AT SERVICE AREA BACK WALL INSTALLED WITH STANDARD MANUFACTURER BRACKET @ 40" AFF. FIRE EXTINGUISHERS AT STORE ENTRIES INSTALLED WITH QUIKTRIP SUPPLIED STAND. SEE IMAGE.

H1 CODE ANALYSIS

N.T.S.

SIGN "A"

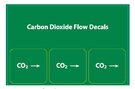


SIGN "B"

SIGN "C"

SIGN "D"

SIGN "E"



SIGN "F"

NOTE:
MOUNT ALL SIGNAGE/CONTROLS PER ADA ACCESSIBILITY REQUIREMENTS

SIGN "F" TO BE FIELD VERIFIED - DIRECTIONAL SIGNAGE TO BE PLACED AT CO2 PIPING AS A FLOW INDICATOR- MAX. SPACING 20'-0". PROVIDE AT EACH CHANGE IN DIRECTION AND ON BOTH SIDES OF WALLS OR FLOOR/CEILING PENETRATIONS.

H10 CO2 SIGNAGE

N.T.S.

ROOM 100 — ROOM NAME & NUMBER
100 / A — DOOR NUMBER / ROOM NUMBER
A — WINDOW LETTER
A — PARTITION TYPE
A1-A101 — ENLARGED PLAN/DETAIL
100 — EQUIPMENT / FIXTURE NUMBER
100'-0" FINISH FLOOR — SPOT ELEVATION
A1 / A101 — DETAIL NUMBER / EXTERIOR ELEVATION / SHEET NUMBER
A1-A11 — INTERIOR ELEVATION
A1 / A11 — DETAIL NUMBER / BUILDING SECTION / SHEET NUMBER
A1-A11 — SECTION / DETAIL
CT-1 — FINISH DESIGNATION

ACOUSTICAL TILE
BRICK
ACCENT BRICK
CONCRETE
EARTH
BATT INSULATION
RIGID INSULATION
FINISH WOOD
PLASTER, SAND, GROUT
GYP. BD.
GRAVEL
STEEL
PLYWOOD
DIMENSIONAL LUMBER
NON-DIMENSIONAL LUMBER

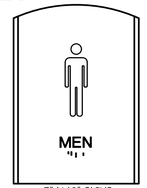
H13 SYMBOLS & LEGENDS

N.T.S.

SIGNS AND IDENTIFICATION

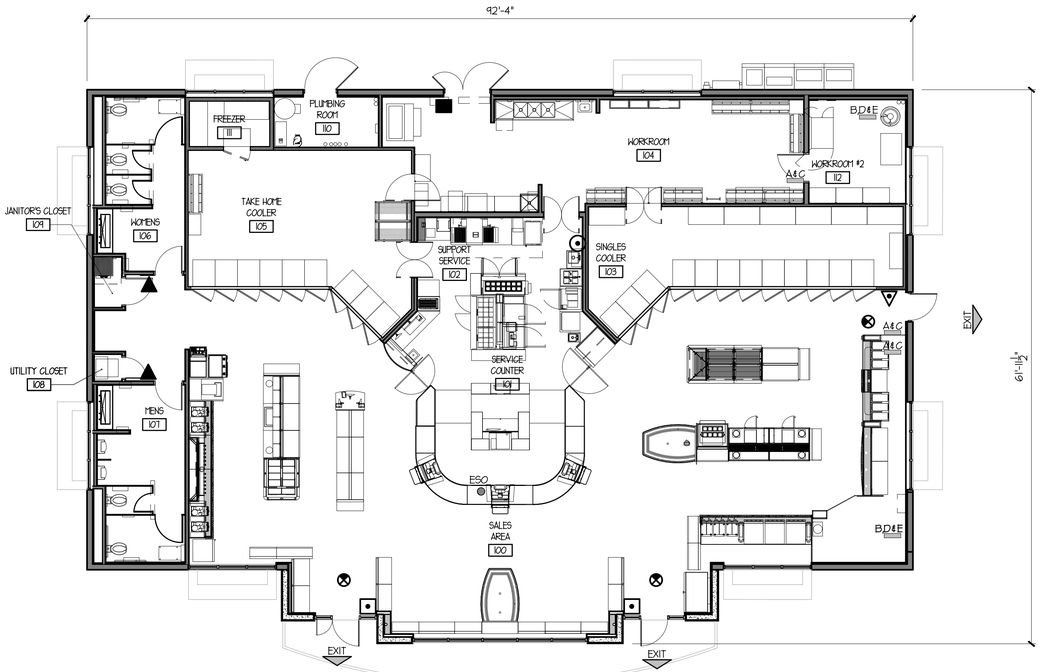
1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN AMERICANS WITH DISABILITIES ACT AND AS SPECIFICALLY REQUIRED IN THIS SECTION.
2. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.
3. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.
4. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X, LOWER CASE CHARACTERS ARE PROHIBITED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE, THE MINIMUM CHARACTER HEIGHT SHALL BE 3".
5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
6. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO NOTES 7-9.
7. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.
8. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHENEVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
9. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE ACCOMPANIED BY BRAILLE. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
10. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
11. CENTER OF SIGNS A AND B SHOULD BE PLACED 60" (5') TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER ON THE SIGN FROM THE FINISH FLOOR AND 9" TO THE CENTER OF THE SIGN FROM THE DOOR ON THE LATCH SIDE.
12. PLACE SIGN C, THE EXIT SIGN 60" (5') TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER FROM THE FINISH FLOOR.
13. ALL SIGNS ARE TO HAVE WHITE RAISED LETTERING AND SYMBOLS (TYP.) WITH CLEAR RAISED BRAILLE (TYP.).
14. SIGNAGE PROVIDED BY QT INSTALLED BY CONTRACTOR.

7" X 10" SIGNS
DARK GRAY BACKGROUND
SIGN A



7" X 10" SIGNS
DARK GRAY BACKGROUND
SIGN B

6" X 6" SIGNS
BLACK BACKGROUND
SIGN C



LEGEND

- EXIT SIGN — NOTE: SHADING INDICATES SIGN FACES
- EXIT — EXIT DIRECTION FROM BUILDING
- FIRE EXTINGUISHER
- PREFERRED FIRE EXTINGUISHER
- ALTERNATE FIRE EXTINGUISHER
- ESO — GASOLINE EMERGENCY SHUT OFF SWITCH
- RESTROOM SIGNAGE, RE: A13-N101
- EXIT SIGNAGE, RE: A13-N101

CO2 SIGN LEGEND

- A — ROOM SIGNAGE PER NFPA 704 AND 55 SECTION 13.2 AND "CO2 EXHAUST ON SWITCH INSIDE DOOR"
- B — TANK SIGNAGE PER NFPA 704 AND 55 SECTION 13
- C — EXHAUST SWITCH SIGNAGE - "CO2 EXHAUST ON SWITCH"
- D — TANK SIGNAGE - "CO2 SHUT-OFF"
- E — HAZARDOUS DESIGNATION PLACARD

A1 CODE PLAN

1/8" = 1'-0"

NORTH

A13 ADA COMPLIANT SIGNAGE

N.T.S.

STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016837
ARCHITECT

SIGNATURE DATE: 11/25/2024

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QT

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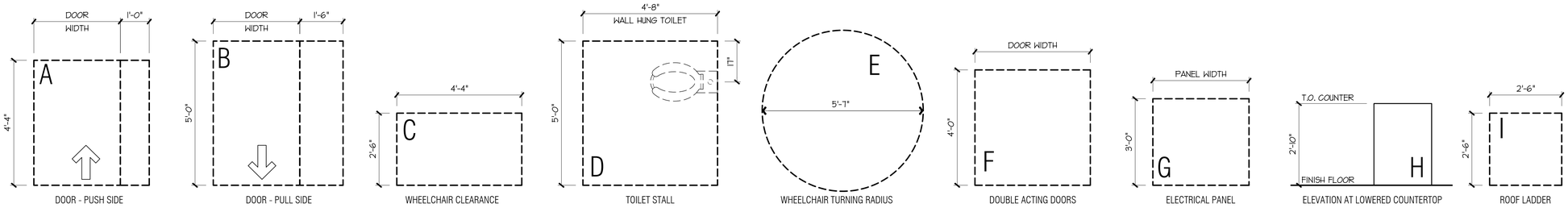
PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

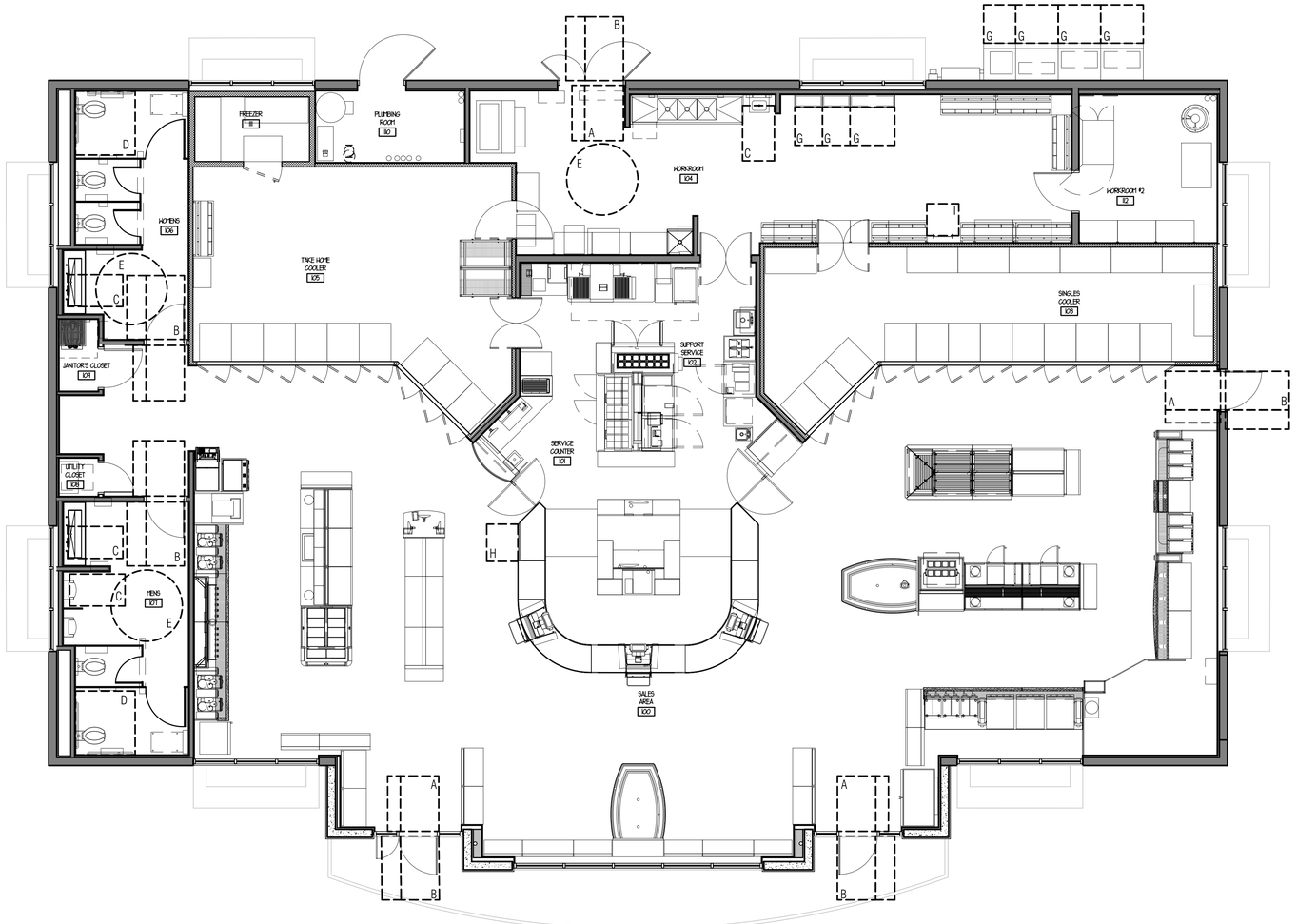
SHEET TITLE:
GENERAL INFORMATION

SHEET NUMBER:
N101



M1 PLAN LEGEND

3/4" = 1'-0"



A1 REQUIRED CLEARANCE FLOOR PLAN

1/4" = 1'-0"

NORTH

ENTRANCES AND EXITS

1. ALL ENTRANCES / EXIT DOORS TO BUILDING SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES AND BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
3. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.
4. EVERY DOORWAY WHICH IS LOCATED WITHIN AN ACCESSIBLE PATH OF TRAVEL SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FT. IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. WHEN INSTALLED, EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
5. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
6. THE BOTTOM 10" OF ALL DOORS (EXCEPT AUTOMATIC SLIDING DOORS) SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAMED DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
7. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS , 5 POUNDS FOR INTERIOR DOORS AND 15 POUNDS FOR FIRE DOORS, WHEN SUCH EFFORT IS APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE, ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.

SANITARY FACILITY FIXTURES AND ACCESSORIES

1. HOT WATER AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
2. CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE OPEN SIDE OF TOILET AREAS.
3. WATER CLOSET AND URINAL FLUSH VALVE CONTROLS AND FAUCET AND OPERATING MECHANISM CONTROLS SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. REFER TO A212 FOR MOUNTING HEIGHTS.
4. THE FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE NO GREATER THAN 5 LBF.
5. SELF CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
6. WHEN STANDARD COMPARTMENT DOORS ARE USED, WITH A MINIMUM 9" CLEARANCE FOR FOOTRESTS UNDERNEATH AND A SELF CLOSING DEVICE, CLEARANCE AT THE STRIKE EDGE IS NOT REQUIRED.
7. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING, OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.
8. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1 1/4" TO 1 1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. WHERE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1 1/2".
9. GRAB BARS SHALL BE CAPABLE OF WITHSTANDING A POINT LOAD OF 250 LBS APPLIED IN ANY DIRECTION.
10. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
11. THE GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

CONTROLS AND OPERATING MECHANISMS

1. CLEAR FLOOR SPACE THAT ALLOWS A COMPLYING FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT.
2. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5 LBF.
3. FAUCET CONTROLS AND OPERATING MECHANISMS FOR KITCHEN SINKS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE FAUCET CONTROLS AND OPERATING MECHANISMS FOR KITCHEN SINKS SHALL BE NO GREATER THAN 5 LBF. LEVER OPERATED PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS, SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
4. CONTROLS AND OPERATING MECHANISMS FOR ALL EQUIPMENT SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST. ALL CONTROLS AND OPERATING MECHANISMS SHALL BE WITHIN THE REQUIRED REACH RANGE OF 9" MINIMUM TO 48" MAXIMUM.

A14 ADA COMPLIANT NOTES

NTS

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STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
16200 Midland Drive
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DIVISION	KANSAS CITY
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DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ADA COMPLIANCE

SHEET NUMBER:
N102

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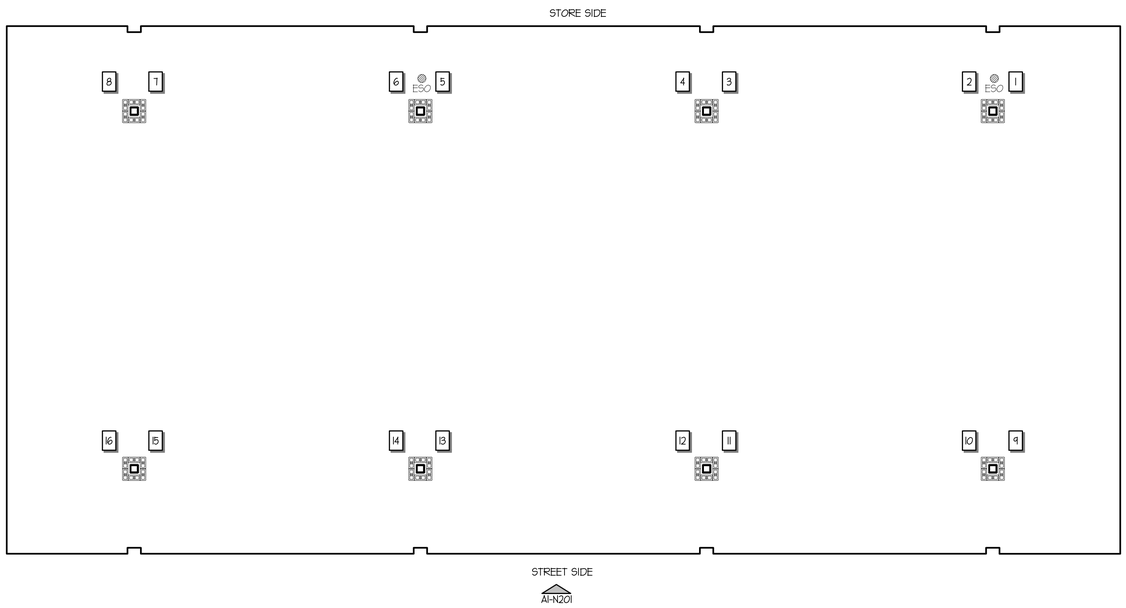
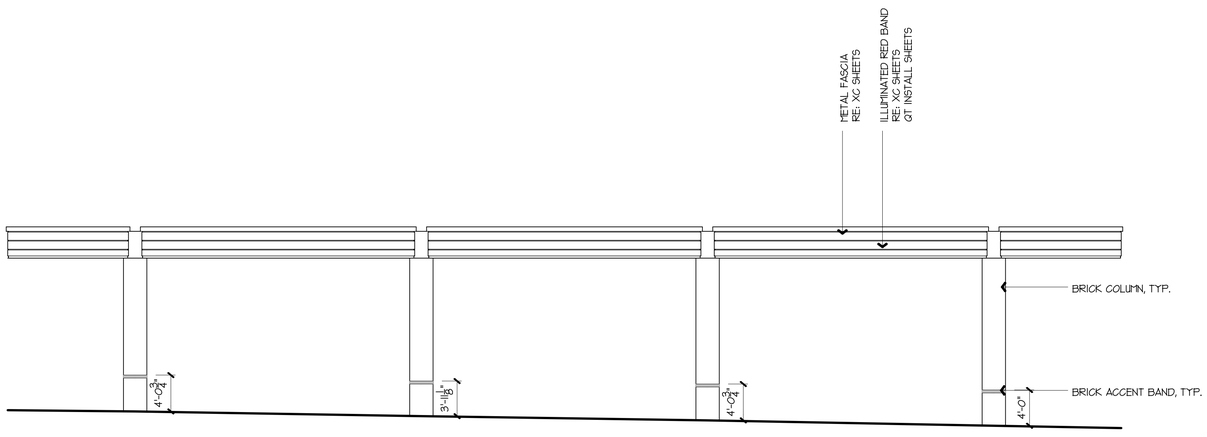


G1 DOUBLE STACK 8 GAS CANOPY PLAN

$\frac{3}{32}$" = 1'-0"

LEGEND	
XX	PUMP NUMBERS
	CANOPY SIGNAGE
ESO	GASOLINE EMERGENCY SHUT OFF SWITCH



A1 DOUBLE STACK 8 GAS CANOPY ELEVATION

$\frac{3}{32}$" = 1'-0"

G1-N201

STATE OF MISSOURI
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NUMBER A-2001016911
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DATE	11-01-2024

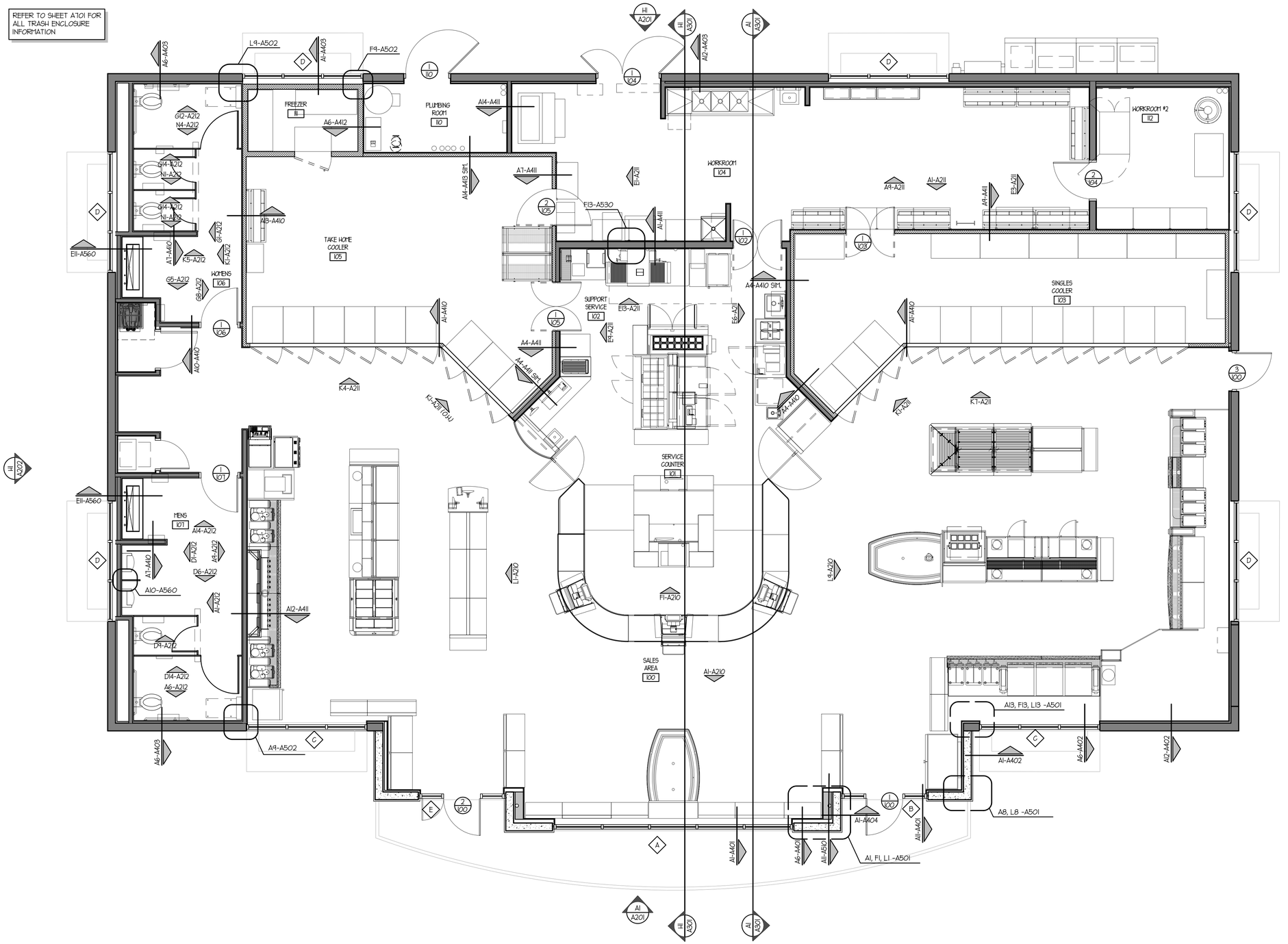
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
GAS CANOPY COORDINATION ELEVATIONS

SHEET NUMBER:
N201

REFER TO SHEET A101 FOR ALL TRASH ENCLOSURE INFORMATION



A1	REFERENCE FLOOR PLAN
1/4" = 1'-0"	

NORTH

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SHEET TITLE:
REFERENCE FLOOR PLAN

SHEET NUMBER:
A101

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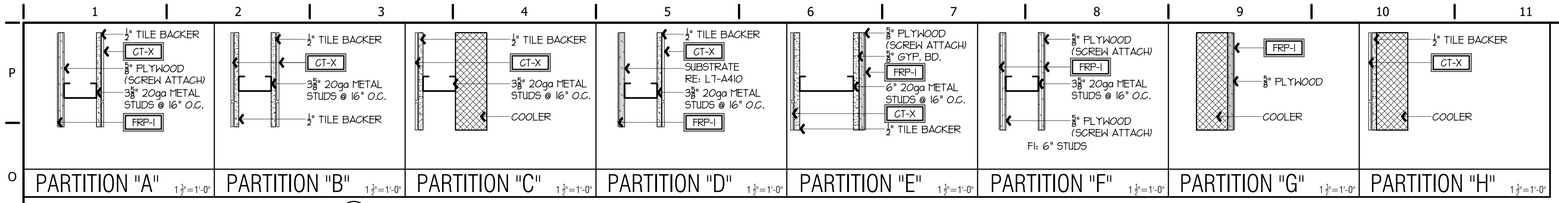

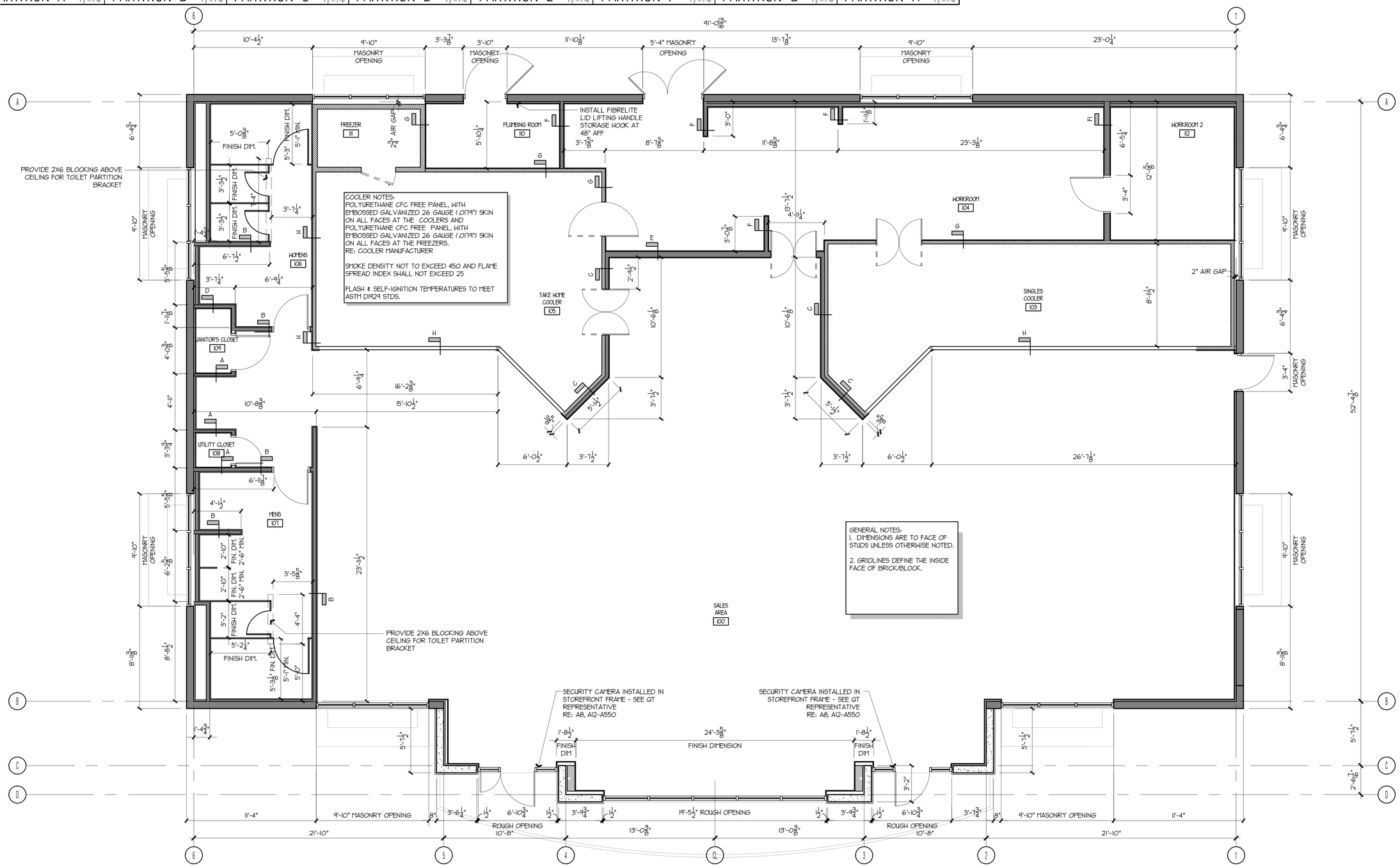

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ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ROUGH DIMENSION FLOOR PLAN

SHEET NUMBER:
A110

A1
3/8" = 1'-0"
ROUGH DIMENSION FLOOR PLAN

NORTH

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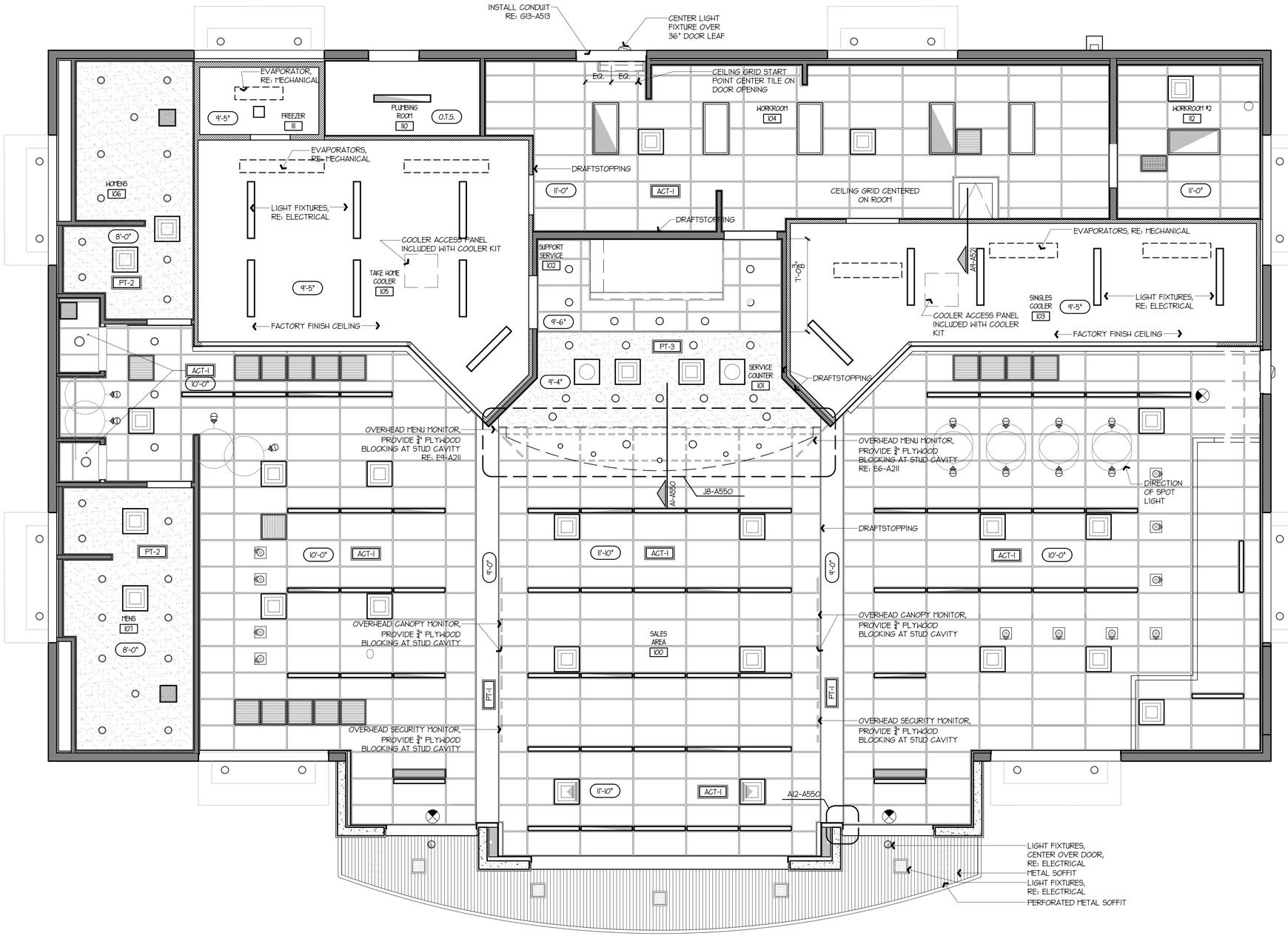

GENERAL NOTE: INSTALL CEILING GRID WITH MAINS IN THE FRONT TO BACK DIRECTION AND SUPPORT HANGERS AT LEAST EVERY 4'-0" IN BOTH DIRECTIONS

GENERAL NOTE: GC TO PROVIDE UNISTRUT GRID AT CEILING AREAS WHICH REQUIRE VENDOR SIGNAGE, SEE QT INSTALLATION DWGS FOR EXACT LOCATIONS

GENERAL NOTE: SHIM CANOPY METAL SOFFIT AS REQUIRED TO ALLOW SOFFIT TO RUN UNDER ROUGH OPENINGS AND INTO STOREFRONTS

A1
¼" = 1'-0"

REFLECTED CEILING PLAN

NORTH

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SHEET TITLE:
REFLECTED CEILING PLAN

SHEET NUMBER:
A120

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13'-7 1/8" | 25'-2 3/8" | 38'-0 1/4" | 14'-3"

AWNING | AWNING

PREFINISHED METAL CORNICE WITH DOWNLIGHTING

G1-A525

2'-2" TYP.

902 | 902

ROOF WALKING PAD, TYP. RE: A9-A520

913 | 915

901

A9-A521

900

G02 EXHAUST DUCT

ROOFING MANUFACTURER SIGNAGE

G15-A525

RE: A5-A520 FOR SQUARE PENETRATION, TYP.

AWNING

903

A1-A520

901 | 902

K13-A520 (TYP.)

902 | 902

L1-A525

G10-A525

L9-A525

PREFINISHED METAL CAP FLASHING WITH DOWNLIGHTING

SLOPED ROOF STRUCTURE MINIMUM 1/4" PER FOOT RE: STRUCTURE

SLOPED ROOF STRUCTURE MINIMUM 1/4" PER FOOT RE: STRUCTURE

901

903

A1-A520

902 | 902 | 902

911 | 906 | 911

A1-A521 (TYP.)

903

A1-A520

AWNING

AWNING

901

RE: A18-A520 FOR ROUND PENETRATION, TYP.

A8-A524

902

FACE OF WALL BELOW

PREFINISHED METAL CORNICE

G12-A525

10'-10 1/2"

PREFINISHED METAL CAP FLASHING WITH DOWNLIGHTING

E5-A524

CRICKET AS REQUIRED TO PROVIDE POSITIVE DRAINAGE TO CANOPY DRAINS

A6-A525

902

PREFINISHED METAL CORNICE

PREFINISHED METAL CAP FLASHING WITH DOWNLIGHTING

AWNING

PREFINISHED METAL CAP FLASHING WITH DOWNLIGHTING

FIREBLOCKING PROVIDED WITH CORNICE

FIREBLOCKING PROVIDED WITH CORNICE

E10-A524

4'-1"

10 7/8"

528

OUTSIDE FACE OF CORNICE CANOPY BELOW

528

A1
3/4" = 1'-0"

ROOF PLAN

NORTH

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SHEET TITLE:
ROOF PLAN

SHEET NUMBER:
A130

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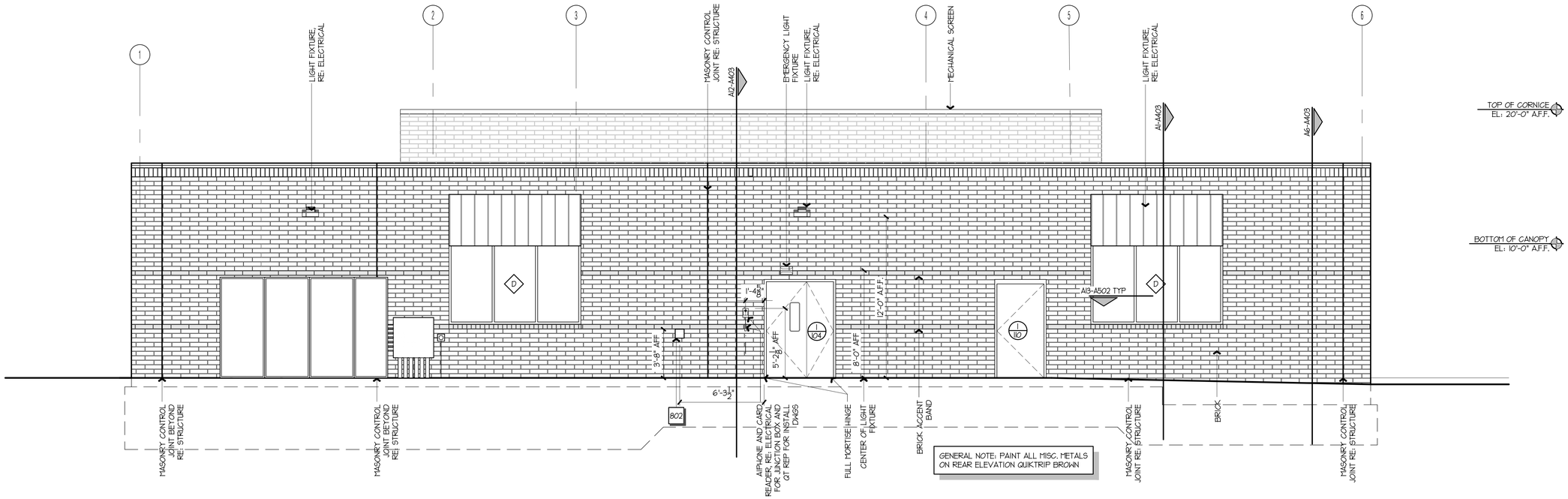
GENERAL NOTE: ALL CMU JOINTS TO BE FLUSH WITH SMOOTH FINISH

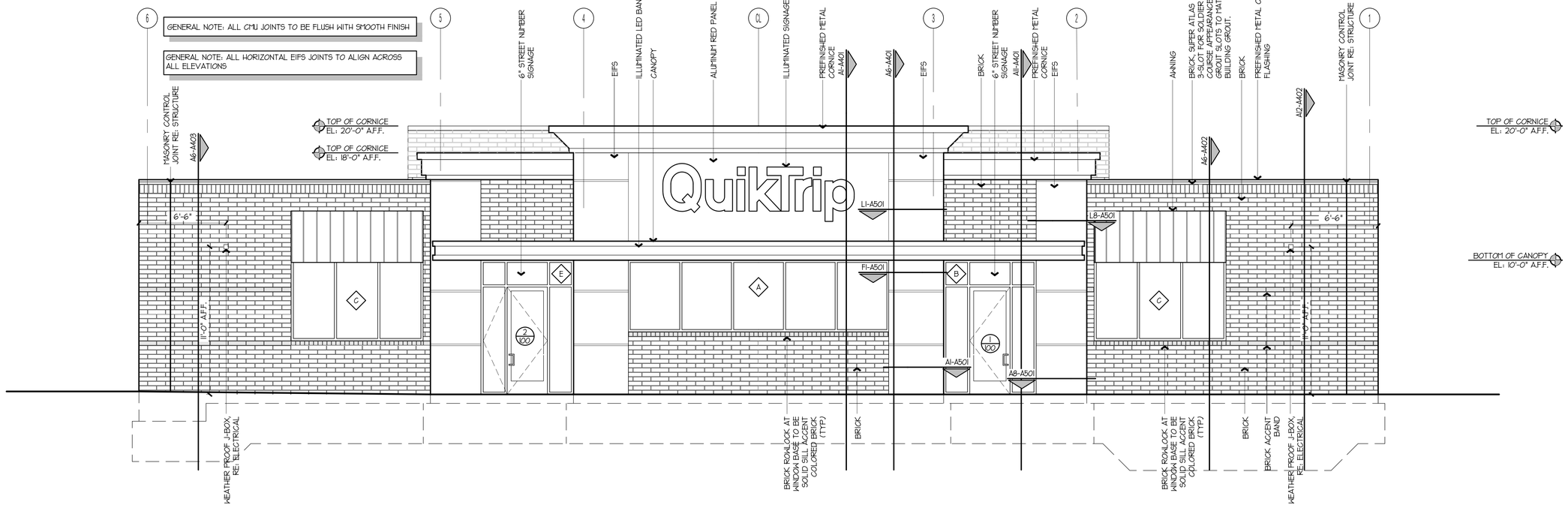


H1 REAR ELEVATION

3/32" = 1'-0" A1-A101

GENERAL NOTE: ALL CMU JOINTS TO BE FLUSH WITH SMOOTH FINISH

GENERAL NOTE: ALL HORIZONTAL EIFS JOINTS TO ALIGN ACROSS ALL ELEVATIONS



A1 FRONT ELEVATION

3/32" = 1'-0" A1-A101

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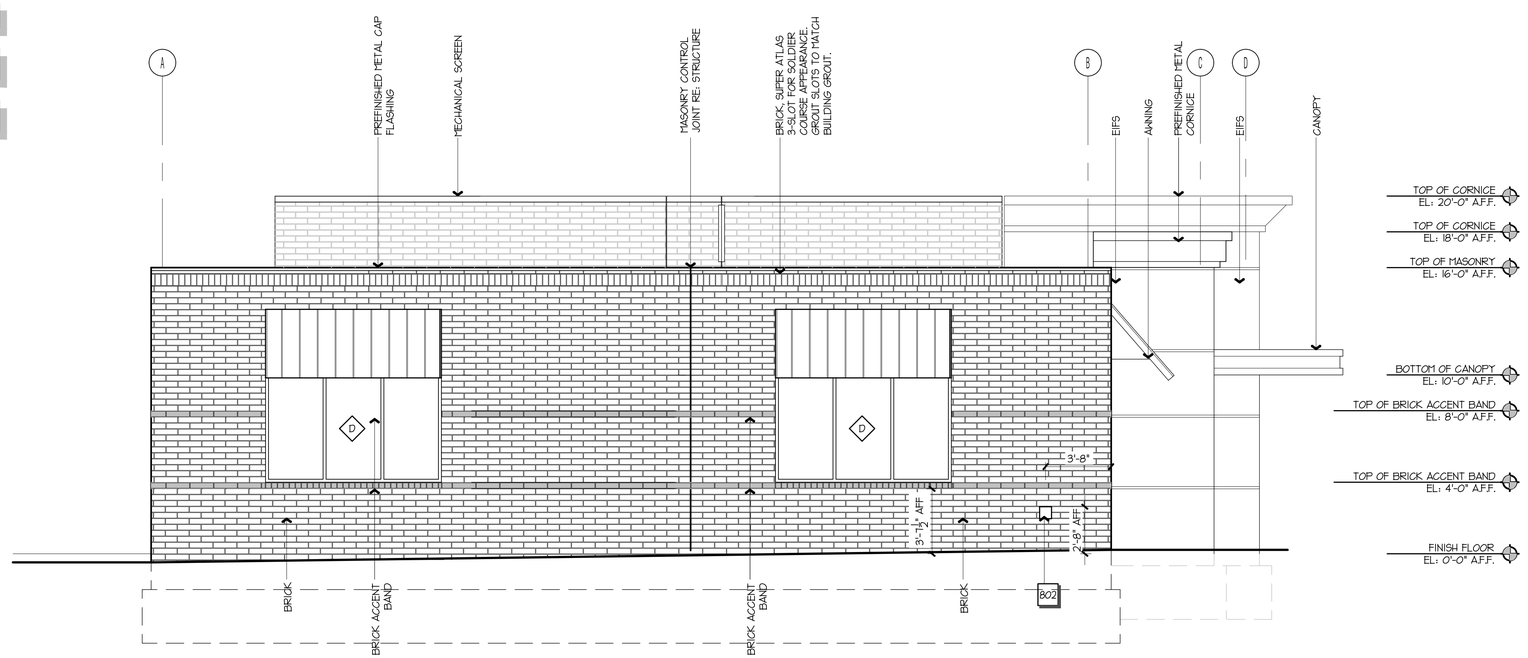
SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A201

GENERAL NOTE: ALL CMU JOINTS TO BE FLUSH WITH SMOOTH FINISH

GENERAL NOTE: ALL HORIZONTAL EIFS JOINTS TO ALIGN ACROSS ALL ELEVATIONS

GENERAL NOTE: ALL MECHANICAL EQUIPMENT SHALL BE EQUAL TO OR LOWER THAN ADJACENT BUILDING



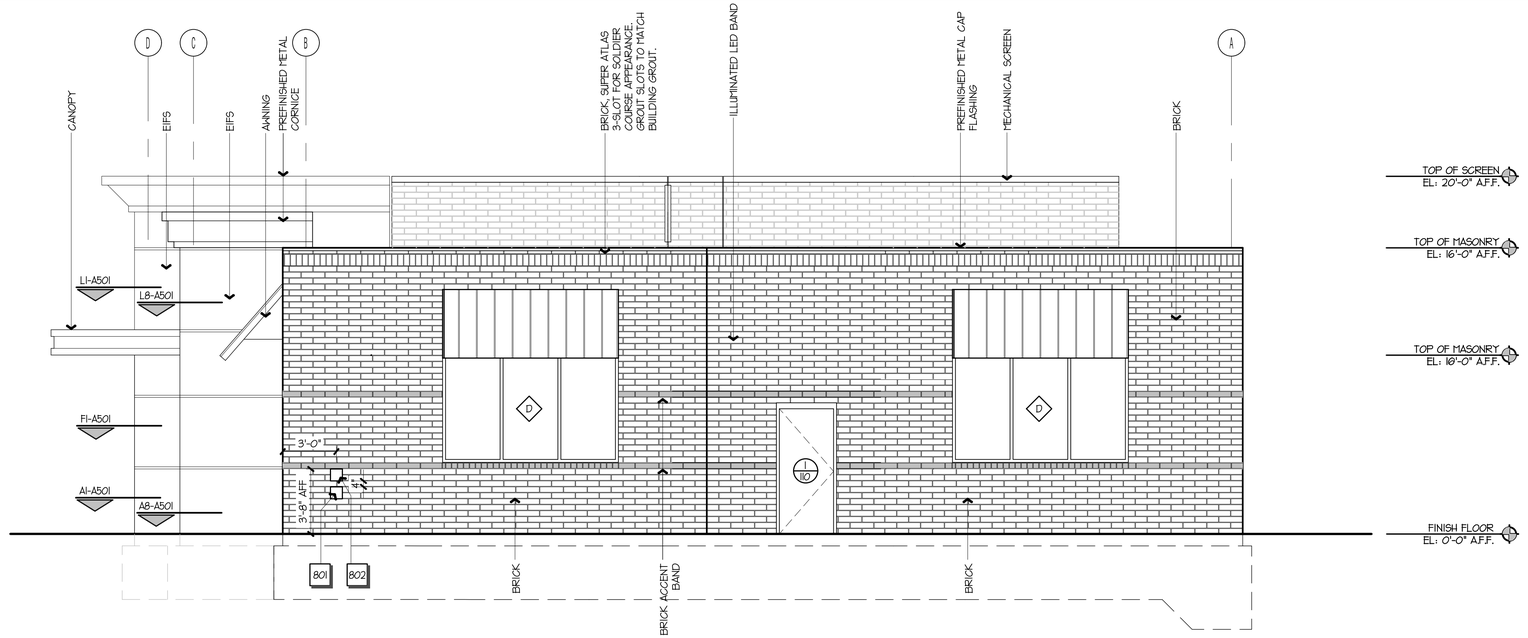
H1 SIDE ELEVATION

3/32" = 1'-0" A1-A101

GENERAL NOTE: ALL CMU JOINTS TO BE FLUSH WITH SMOOTH FINISH

GENERAL NOTE: ALL HORIZONTAL EIFS JOINTS TO ALIGN ACROSS ALL ELEVATIONS

GENERAL NOTE: ALL MECHANICAL EQUIPMENT SHALL BE EQUAL TO OR LOWER THAN ADJACENT BUILDING



A1 SIDE ELEVATION

3/32" = 1'-0" A1-A101

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SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NUMBER:

A202

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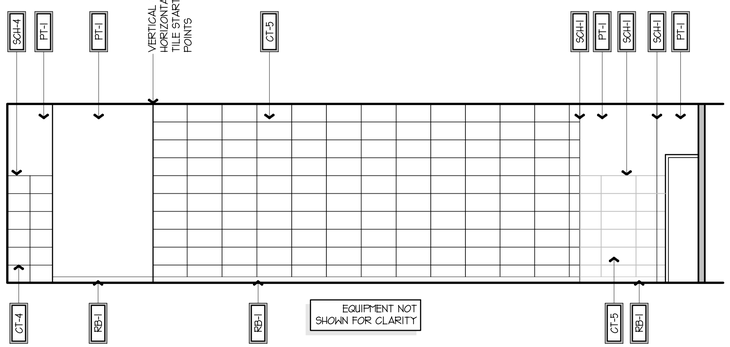
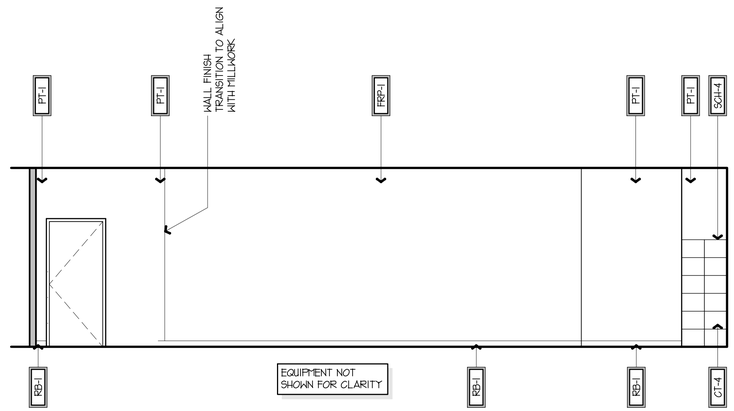


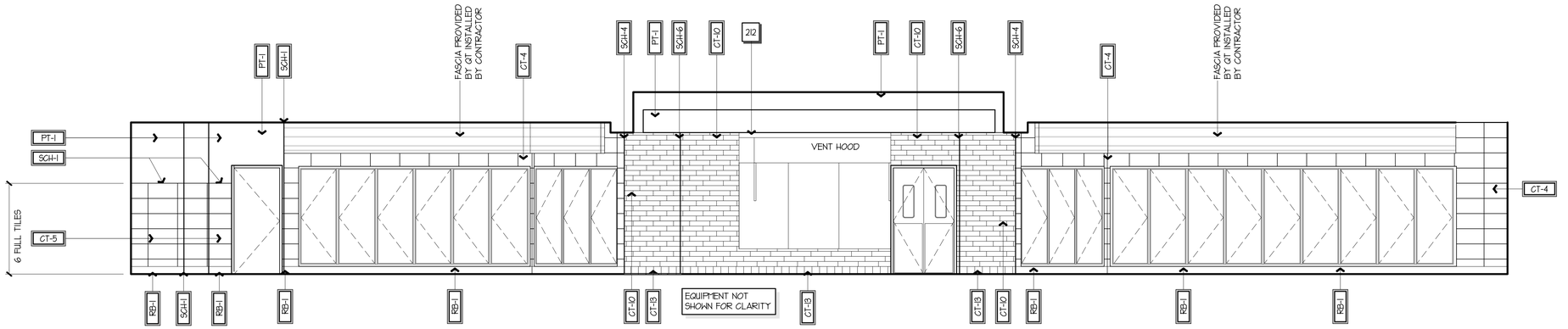
L1 SALES FLOOR ELEVATION

3/4" = 1'-0" | A1-A101



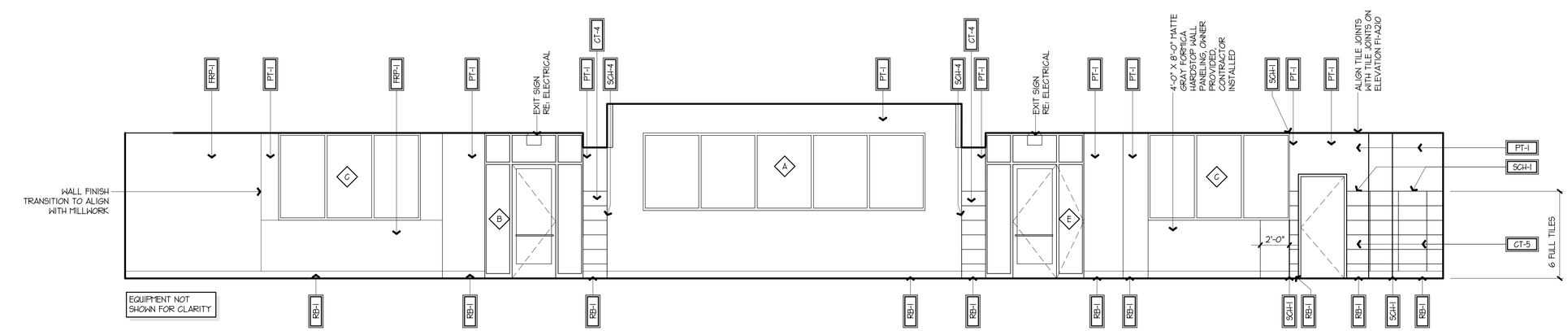
L9 SALES FLOOR ELEVATION

3/4" = 1'-0" | A1-A101



F1 SALES FLOOR ELEVATION

3/4" = 1'-0" | A1-A101



A1 SALES FLOOR ELEVATION

3/4" = 1'-0" | A1-A101

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SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A210

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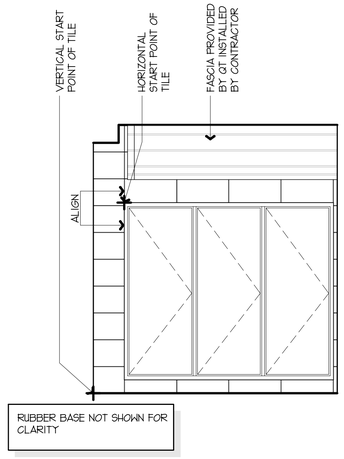
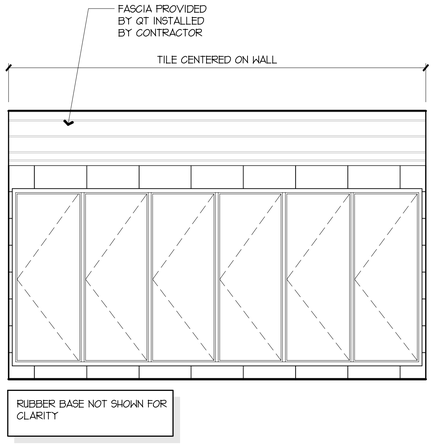


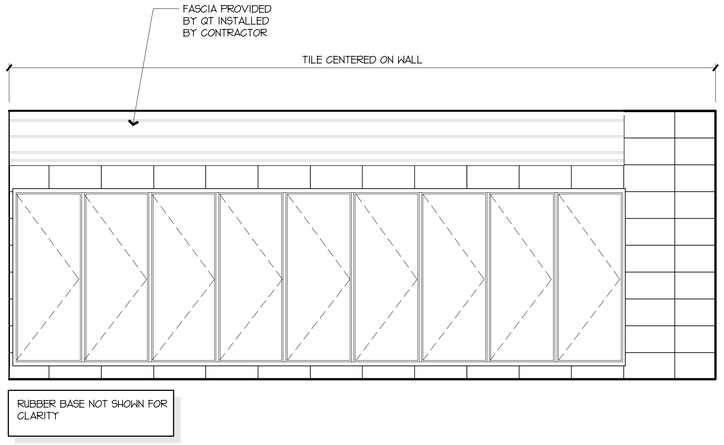
K1 COOLER ELEVATION

3/4" = 1'-0" | A1-A101



K4 COOLER ELEVATION

3/4" = 1'-0" | A1-A101

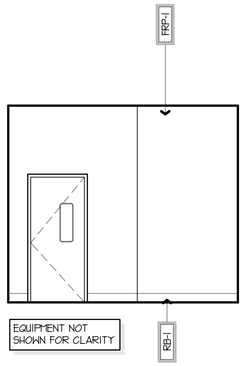


K7 COOLER ELEVATION

3/4" = 1'-0" | A1-A101

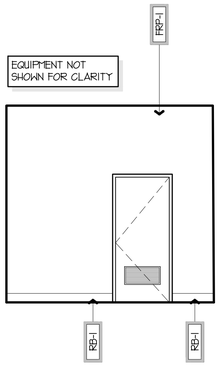
K13 NOT USED

SCALE | XX-XXXX



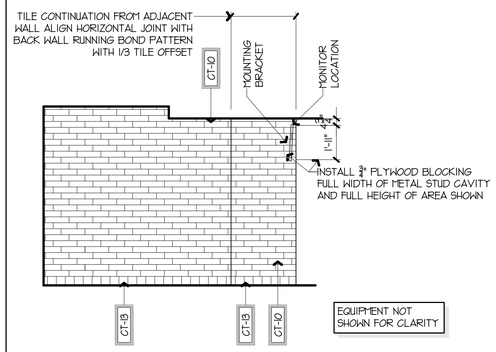
E1 WORKROOM ELEV.

1/2" = 1'-0" | A1-A101



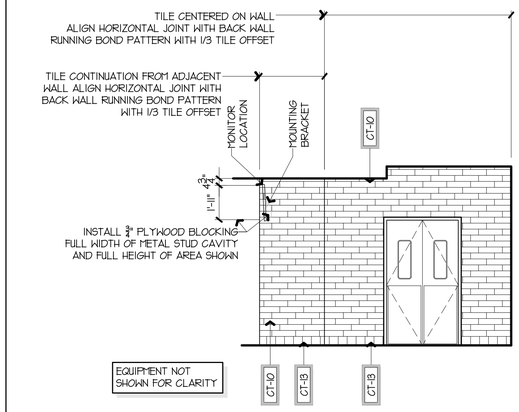
E3 WORKROOM ELEV.

1/2" = 1'-0" | A1-A101



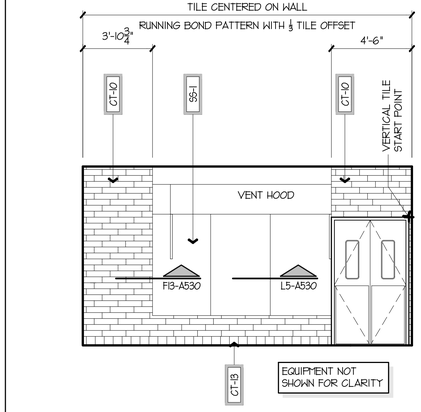
E6 SERVICE COUNTER ELEVATION

1/2" = 1'-0" | A1-A101



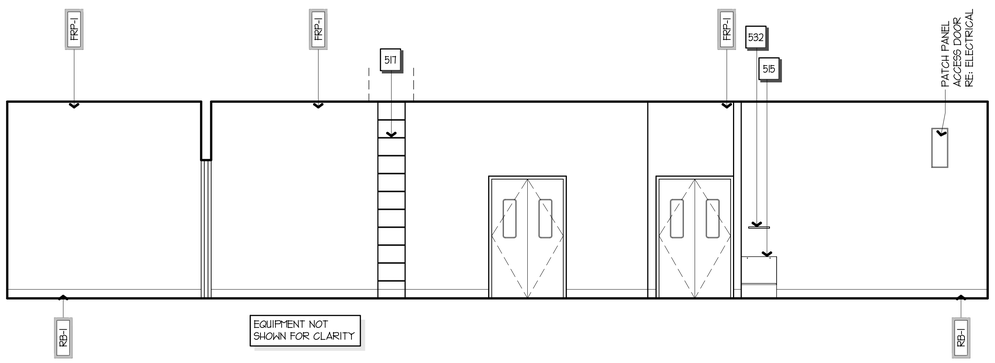
E9 SERVICE COUNTER ELEVATION

1/2" = 1'-0" | A1-A101



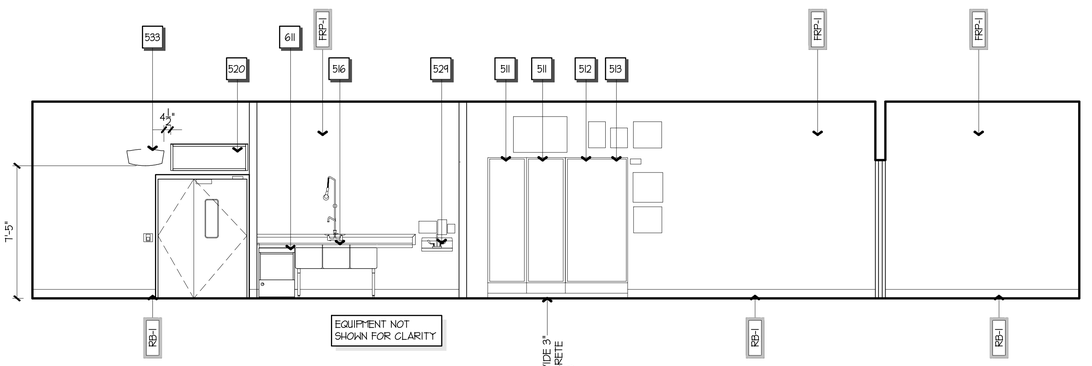
E13 REAR SERVICE COUNTER ELEVATION

1/2" = 1'-0" | A1-A101



A1 WORKROOM ELEVATION

3/4" = 1'-0" | A1-A101



A9 WORKROOM ELEVATION

3/4" = 1'-0" | A1-A101

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016944
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE

16200 Midland Drive
Shawnee, KS 66217
(P) 913.399.7888

QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

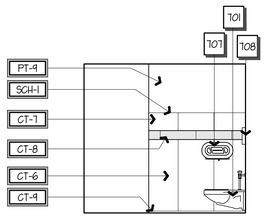
SHEET TITLE:

INTERIOR ELEVATIONS

SHEET NUMBER:

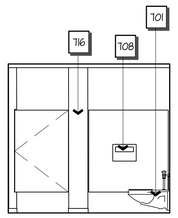
A211

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



N1 WOMEN'S PARTITION ELEVATION

3/4" = 1'-0" A1-A101

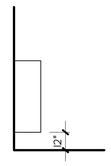


N4 PARTITION ELEVATION

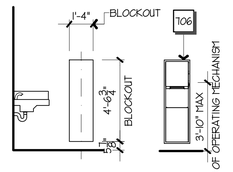
3/4" = 1'-0" A1-A101

ADDITIONAL NOTES:

1. USE ¾" CONTINUOUS PLYWOOD BLOCKING FOR SURFACE MOUNTED ACCESSORIES. EXTEND BLOCKING TO FILL STUD CAVITY HORIZONTALLY, AND EXTEND 4" MINIMUM VERTICALLY FROM ATTACHMENT POINT.
2. PAPER TOWEL DISPENSER WITH TRASH RECEPTACLE BLOCKOUT SIZE: 16" X 54¾"
3. ALL DIMS. ON THIS SHEET ARE FROM FACE OF FINISH.
4. REFER TO SHEET N102 FOR ADDITIONAL ADA COMPLIANT REQUIREMENTS
5. DIMENSIONS NOTED AS "MIN." OR "MAX." ARE CRITICAL.
6. ALL ACCENT TILE TO BE CENTERED IN STALLS
7. RESTROOM PARTITIONS ARE PROVIDED BY QUIKTRIP AND INSTALLED BY CONTRACTOR.

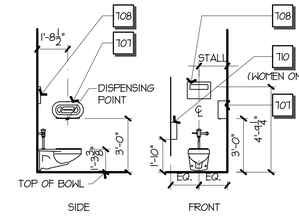


URINAL SCREEN

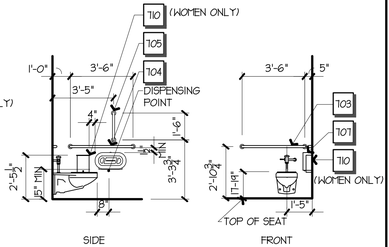


PAPER TOWEL BLOCKOUT

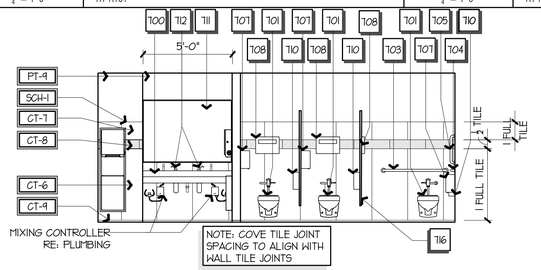
PAPER TOWEL



WATER CLOSET

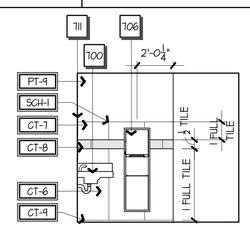


ADA COMPLIANT WATER CLOSET



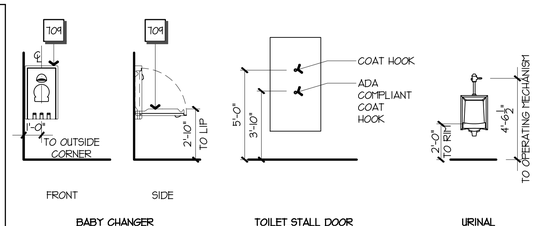
K1 WOMEN'S ELEVATION

3/4" = 1'-0" A1-A101



K5 WOMEN'S ELEVATION

3/4" = 1'-0" A1-A101



BABY CHANGER

TOILET STALL DOOR

URINAL

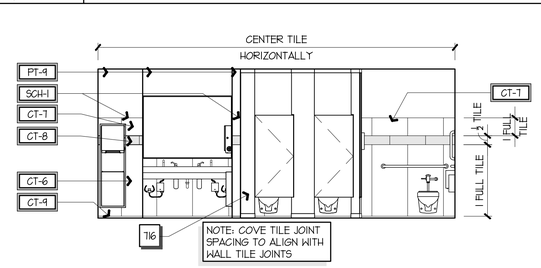
ADA COMPLIANT URINAL

ADA COMPLIANT SANITARY SEAT COVER

ADA COMPLIANT LAVATORIES

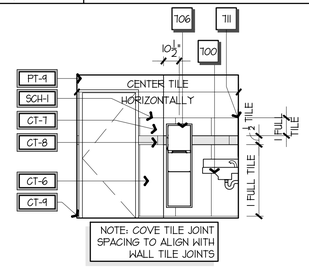
K8 RESTROOM ACCESSIBLE MOUNTING HEIGHTS

3/4" = 1'-0" A212



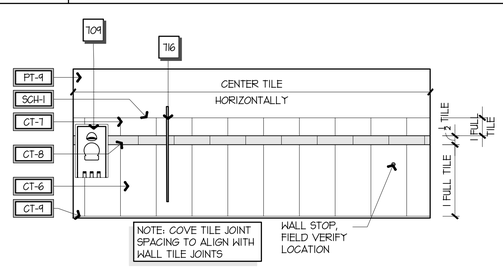
G1 WOMEN'S ELEVATION

3/4" = 1'-0" A1-A101



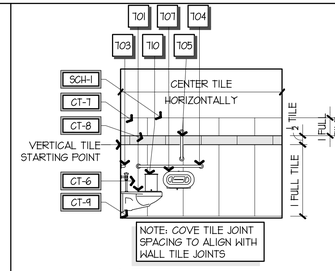
G5 WOMEN'S ELEVATION

3/4" = 1'-0" A1-A101



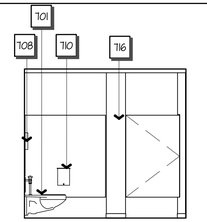
G8 WOMEN'S ELEVATION

3/4" = 1'-0" A1-A101



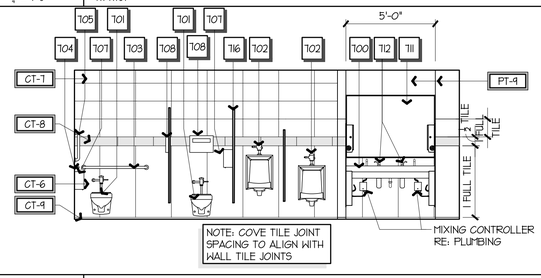
G12 WOMEN'S ELEVATION

3/4" = 1'-0" A1-A101



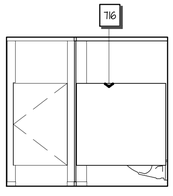
G14 PARTITION ELEVATION

3/4" = 1'-0" A1-A101



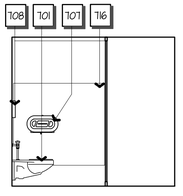
D1 MEN'S ELEVATION

3/4" = 1'-0" A1-A101



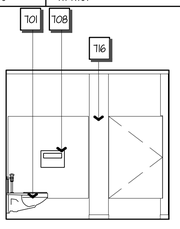
D6 MEN'S PARTITION ELEVATION

3/4" = 1'-0" A1-A101



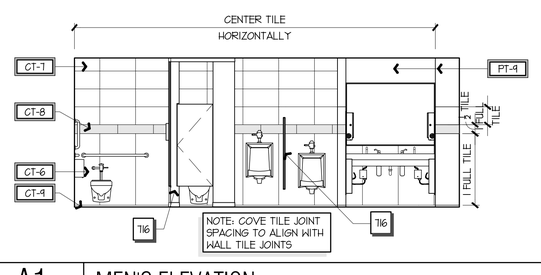
D9 MEN'S PARTITION ELEVATION

3/4" = 1'-0" A1-A101



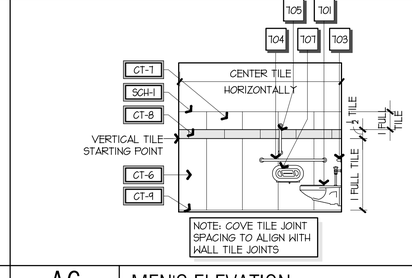
D14 PARTITION ELEVATION

3/4" = 1'-0" A1-A101



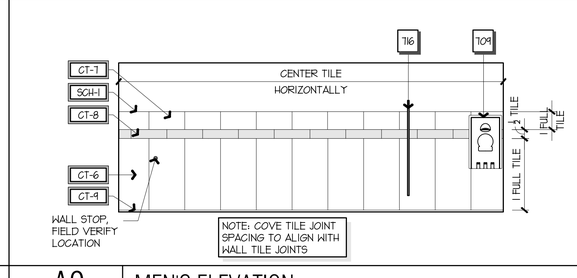
A1 MEN'S ELEVATION

3/4" = 1'-0" A1-A101



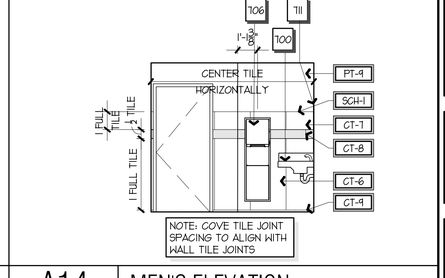
A6 MEN'S ELEVATION

3/4" = 1'-0" A1-A101



A9 MEN'S ELEVATION

3/4" = 1'-0" A1-A101



A14 MEN'S ELEVATION

3/4" = 1'-0" A1-A101

STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016
ARCHITECT
SIGNATURE DATE: 11/25/2024
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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
RESTROOM ELEVATIONS

SHEET NUMBER:
A212

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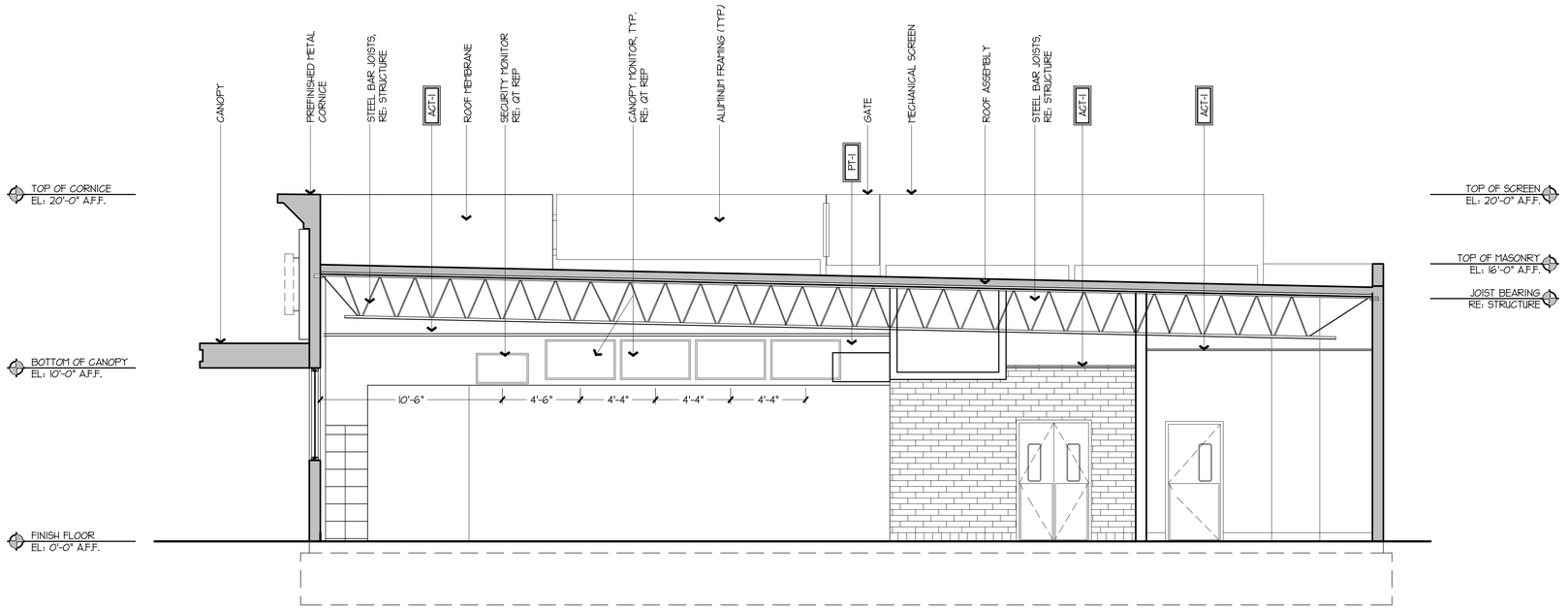
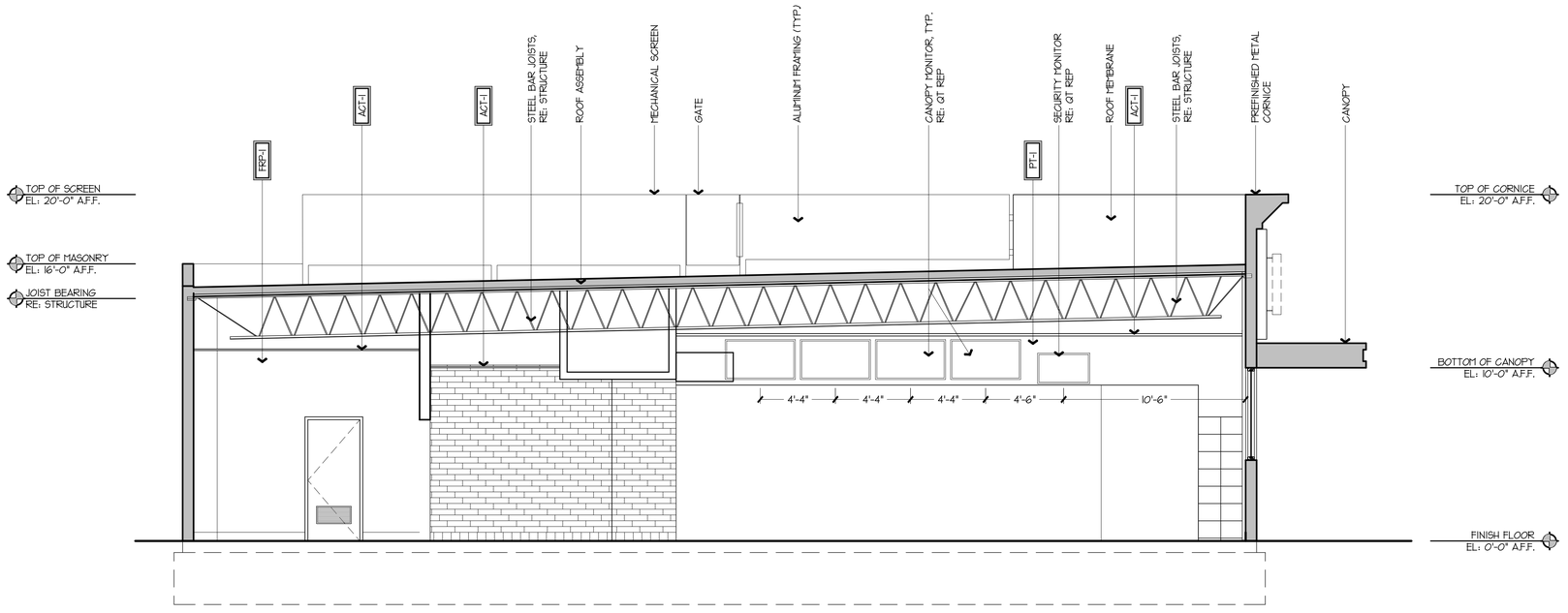
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



H1 BUILDING SECTION

3/32" = 1'-0" A1-A101



A1 BUILDING SECTION

3/32" = 1'-0" A1-A101

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

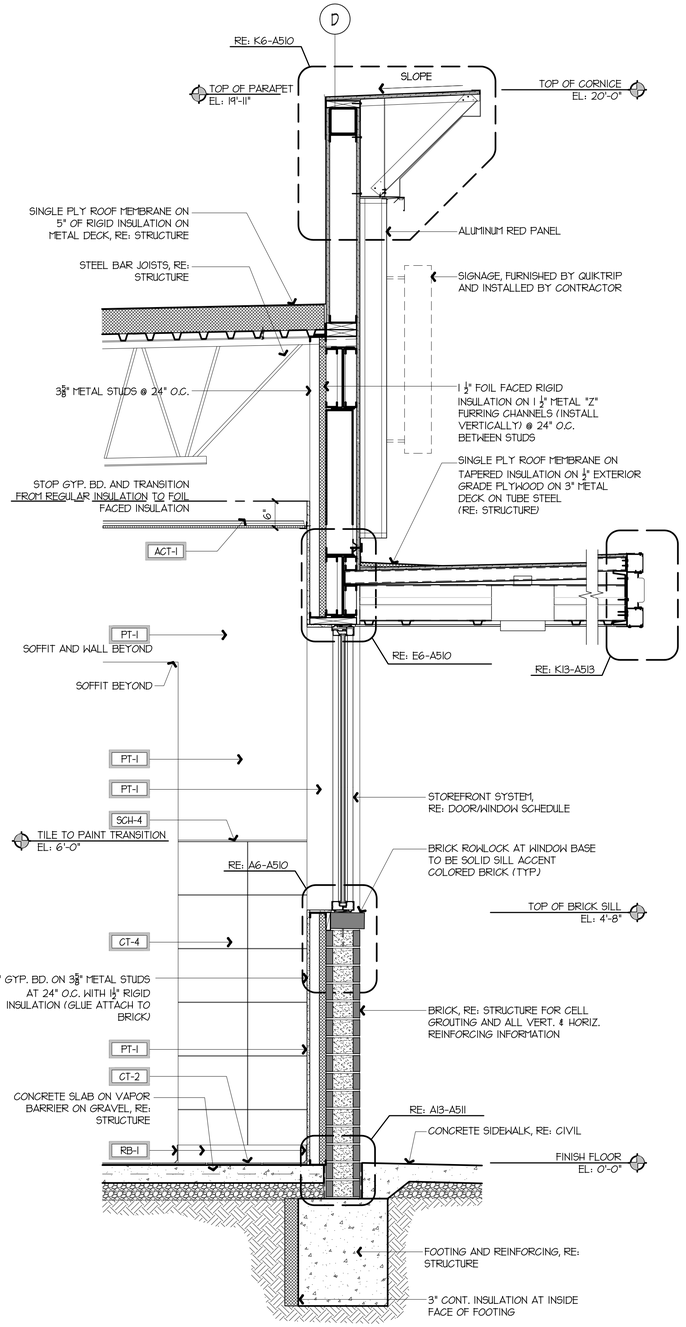
SHEET TITLE:

BUILDING SECTIONS

SHEET NUMBER:

A301

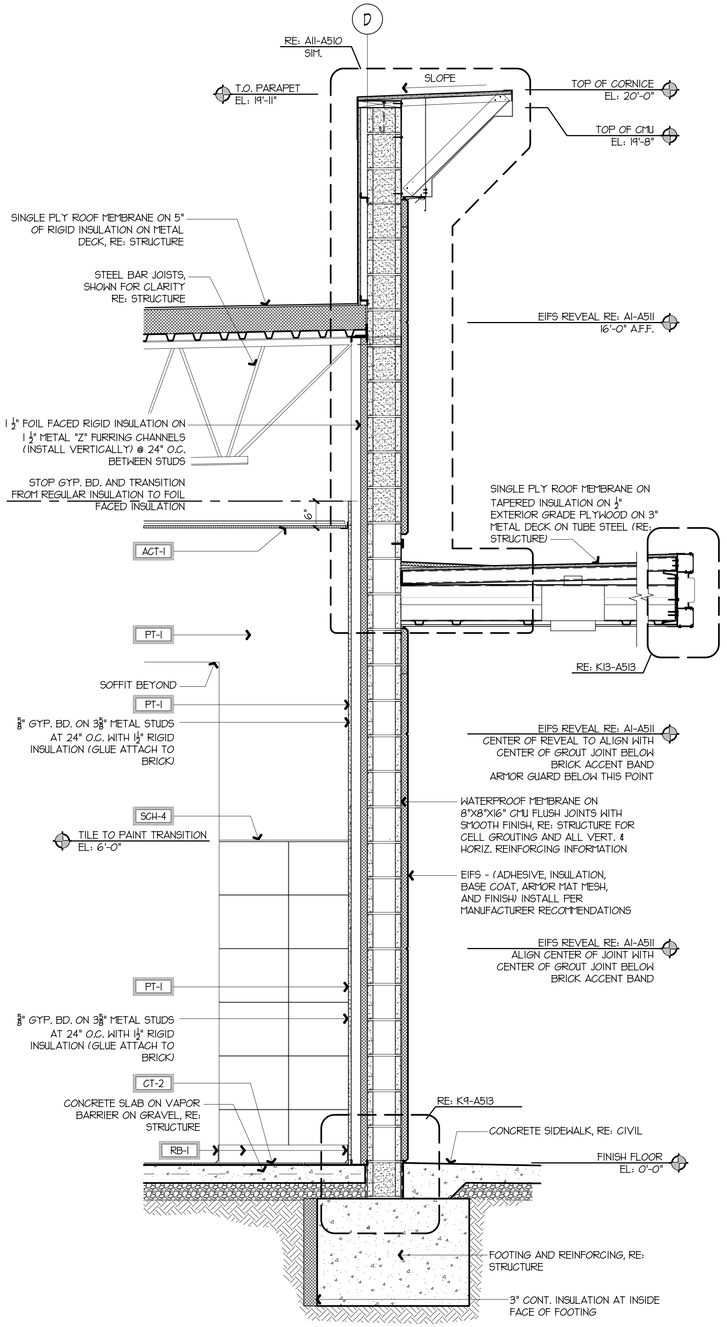
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



A1 WALL SECTION AT FRONT WALL

3/4" = 1'-0"

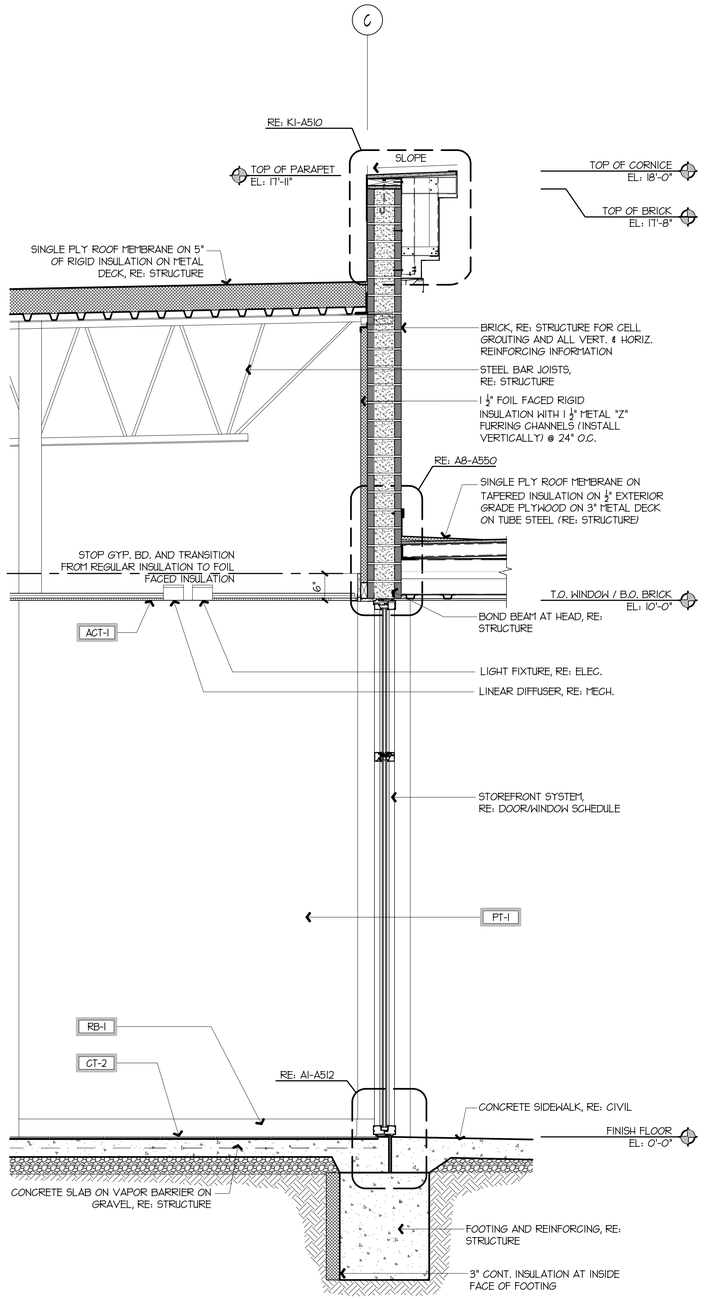
A1-A101, A1-A201



A6 WALL SECTION AT FRONT WALL

3/4" = 1'-0"

A1-A101, A1-A201



A11 WALL SECTION AT FRONT ENTRY

3/4" = 1'-0"

A1-A101, A1-A201

STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016944
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
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DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

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SHEET TITLE:

EXTERIOR WALL SECTIONS

SHEET NUMBER:

A401

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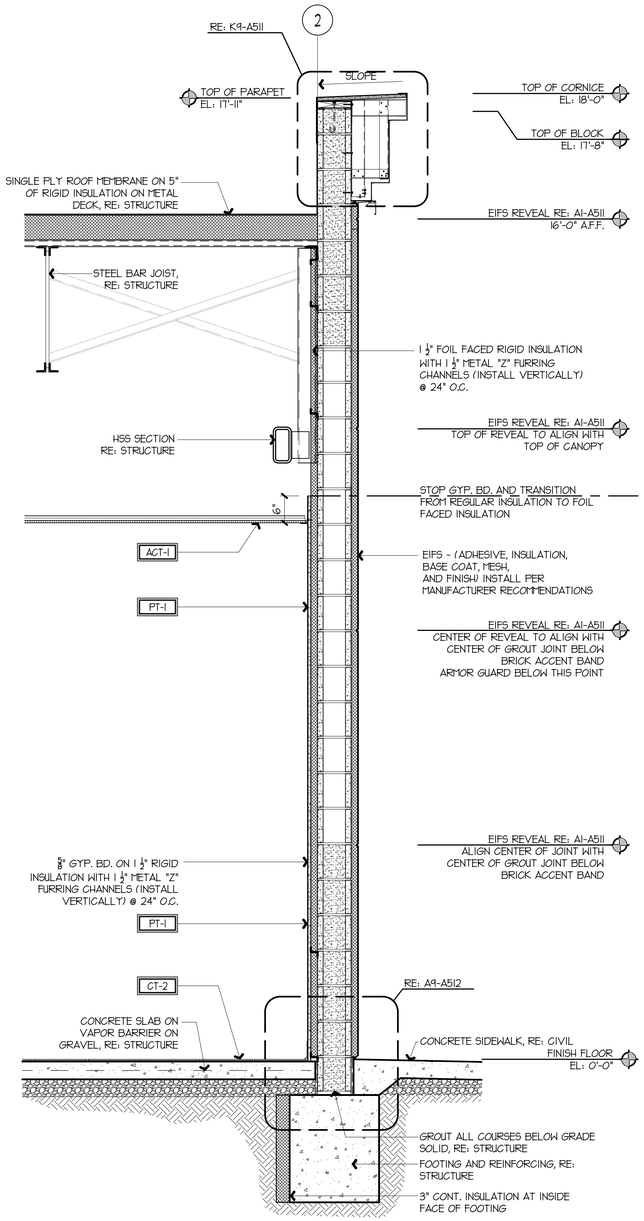
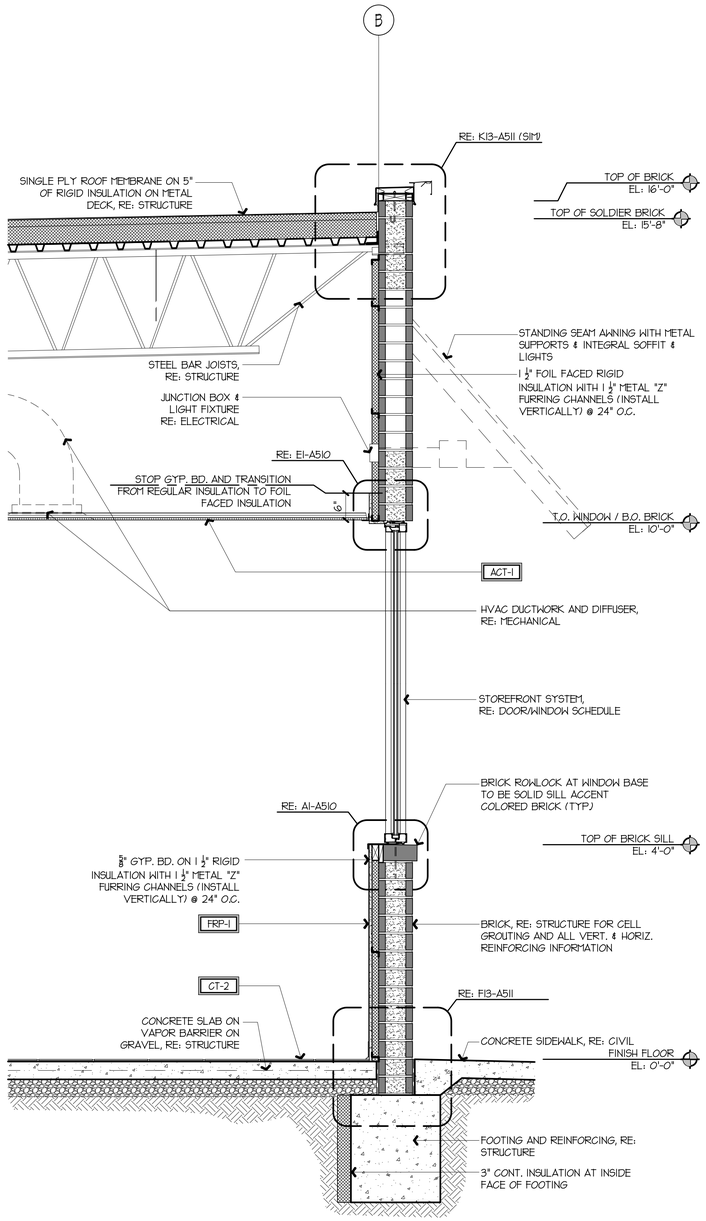
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



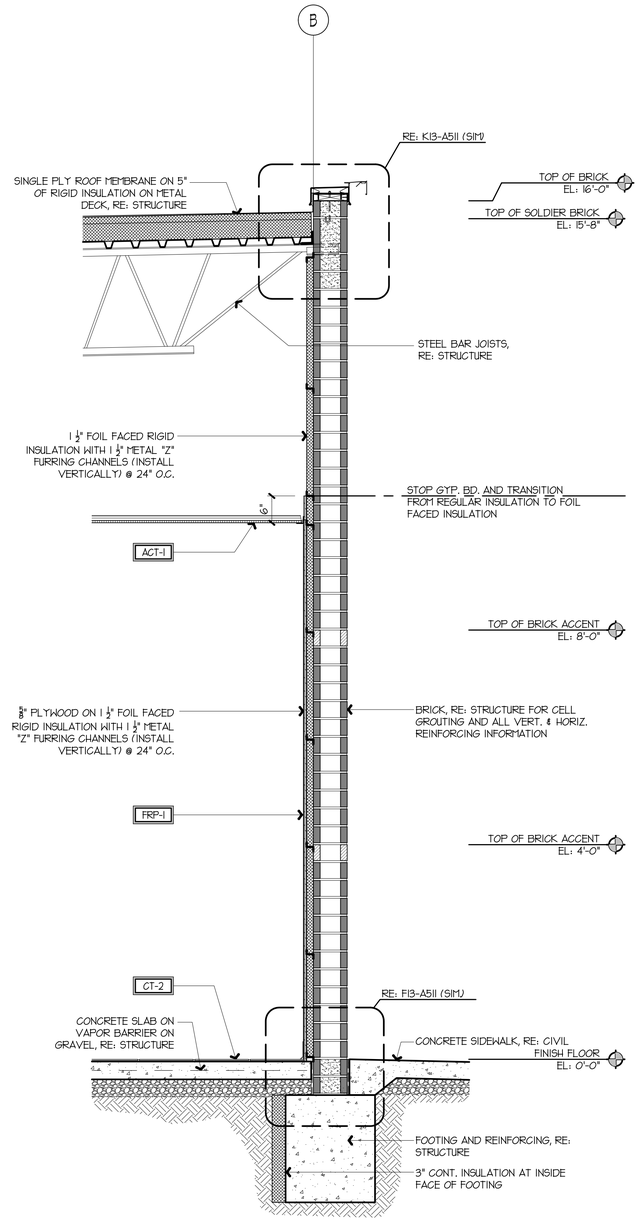
A1 WALL SECTION AT FRONT ENTRY

3/4" = 1'-0" | A1-A101



A6 WALL SECTION AT FROZEN BAR / WINDOW

3/4" = 1'-0" | A1-A101



A12 WALL SECTION AT FROZEN BAR

3/4" = 1'-0" | A1-A101

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016944
ARCHITECT
SIGNATURE DATE: 11/25/2024

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

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SHEET TITLE:
EXTERIOR WALL SECTIONS

SHEET NUMBER:
A402

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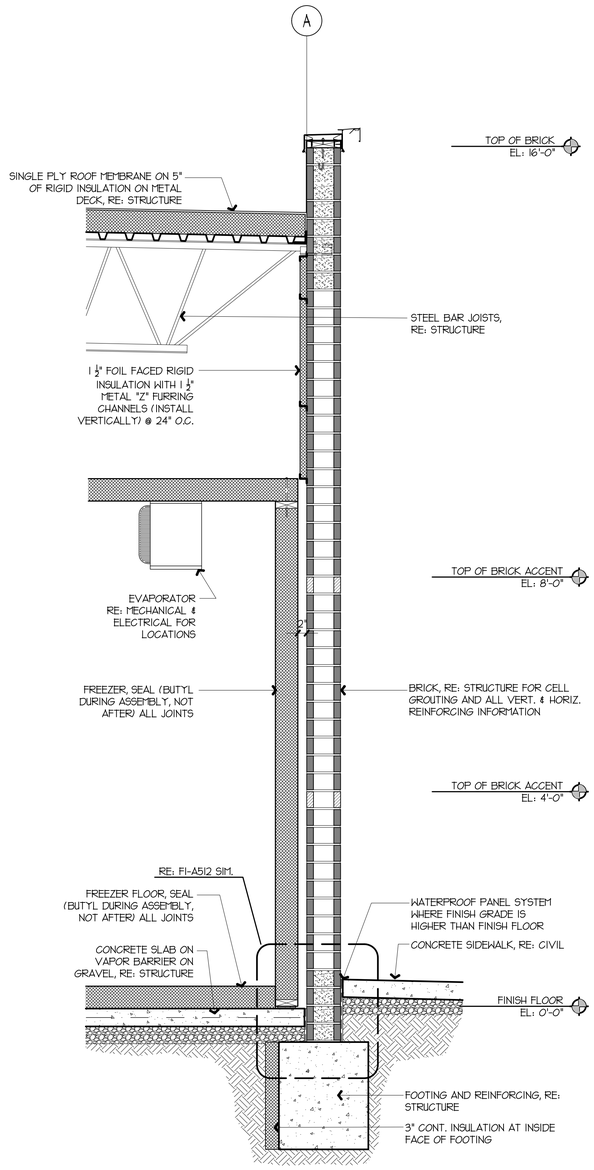
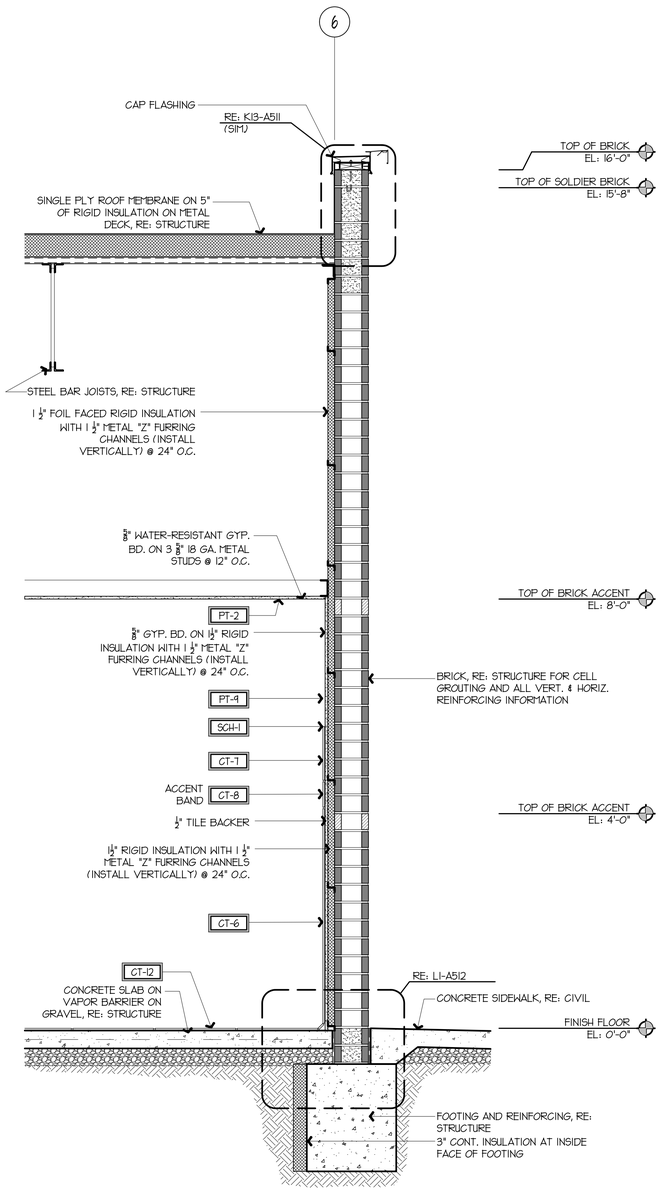
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



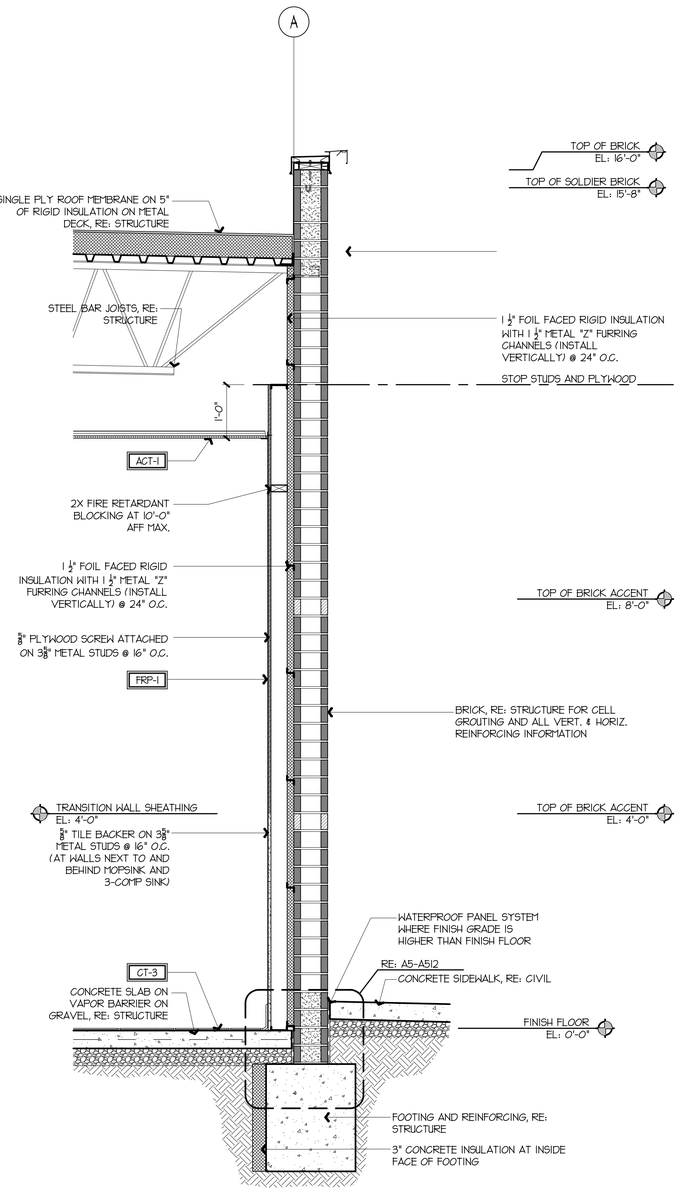
A1 WALL SECTION AT FREEZER

3/4" = 1'-0" | A1-A101



A6 WALL SECTION AT RESTROOM

3/4" = 1'-0" | A1-A101



A12 WALL SECTION AT WORKROOM

3/4" = 1'-0" | A1-A101

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016941
ARCHITECT

SIGNATURE DATE: 11/25/2024

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PROTOTYPE	P-120
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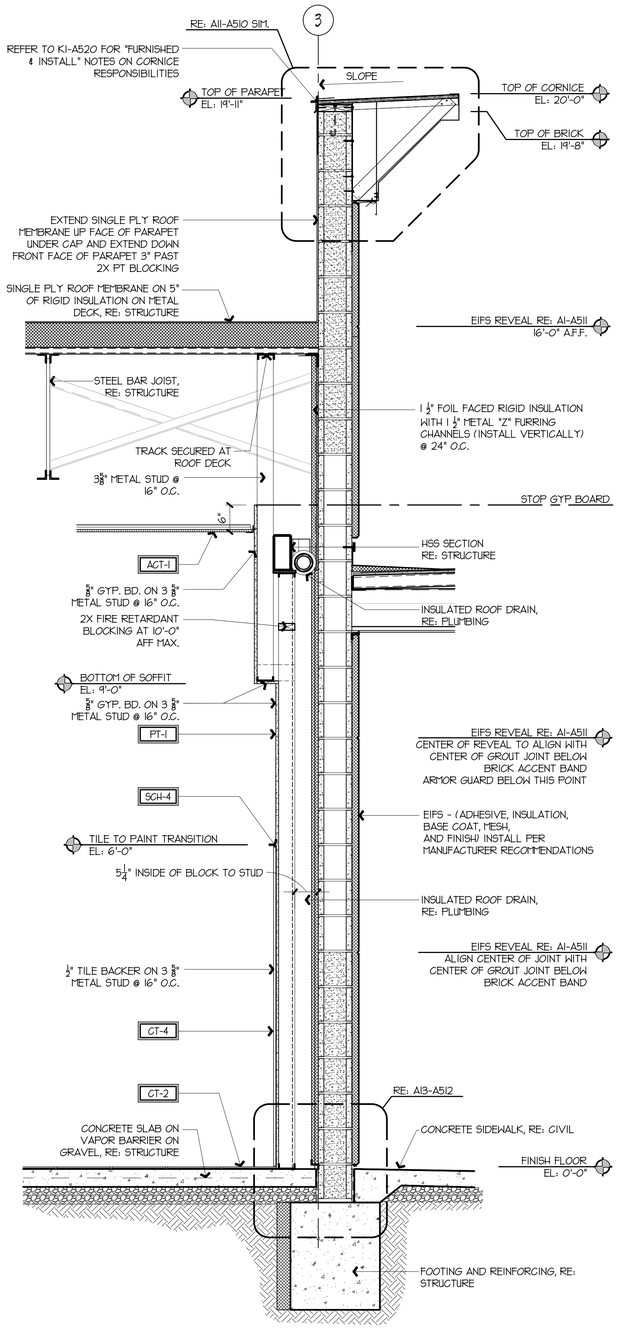
SHEET TITLE:
EXTERIOR WALL SECTIONS

SHEET NUMBER:
A403

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



A1	WALL SECTION AT FRONT CHASE	A5	NOT USED	A10	NOT USED
1/2" = 1'-0"	A1-A101	1/2" = 1'-0"	XXX-XXXX	1/2" = 1'-0"	XXX-XXXX

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-200101699
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE

16200 Midland Drive
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QuikTrip No. 0183R

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DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

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ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:

EXTERIOR WALL SECTIONS

SHEET NUMBER:

A404

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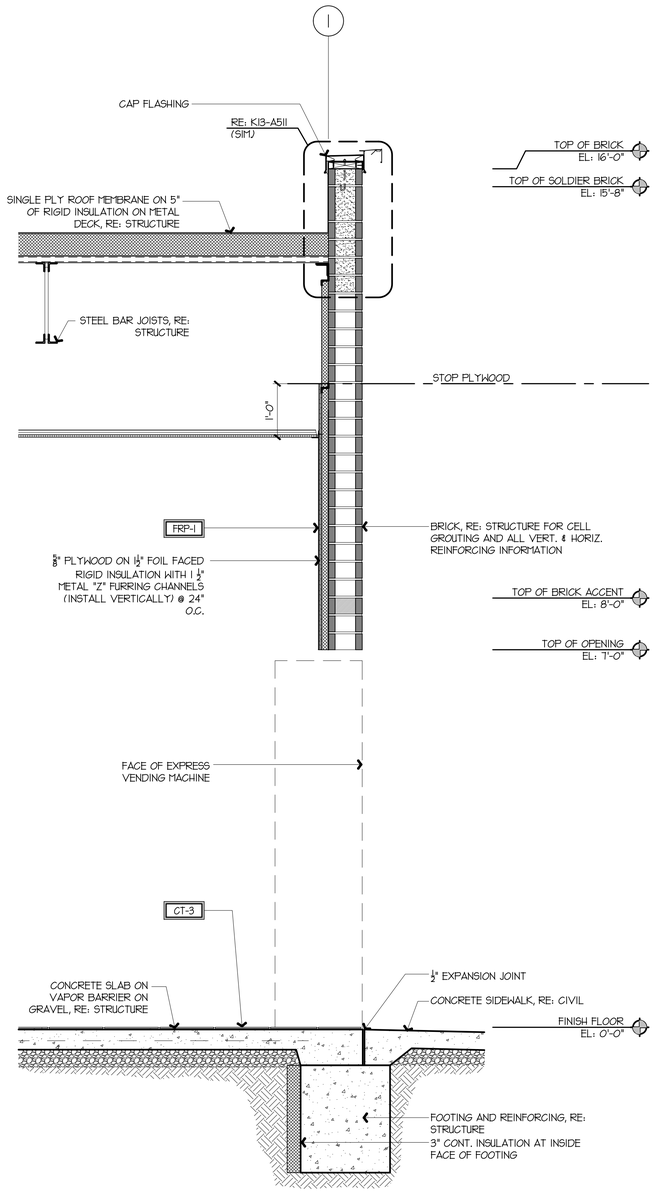
Lee's Summit, Missouri
03/10/2025

K1 — NOT USED
3/8" = 1'-0" | xx-xxx

A1 — NOT USED
3/8" = 1'-0" | xx-xxx

A5 — NOT USED
3/8" = 1'-0" | xx-xxx



A12 — WALL SECTION AT OPENING
3/4" = 1'-0" | A1-A101

A1 — NOT USED
3/8" = 1'-0" | xx-xxx

A5 — NOT USED
3/8" = 1'-0" | xx-xxx

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016911
ARCHITECT
SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
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SHEET TITLE:
EXTERIOR WALL SECTIONS

SHEET NUMBER:
A405

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Lee's Summit, Missouri
03/10/2025

L1 NOT USED

3/4" = 1'-0" | XXX-XXXX

L4 NOT USED

3/4" = 1'-0" | XXX-XXXX

L7 WALL SECTION AT JAN. CLOSET

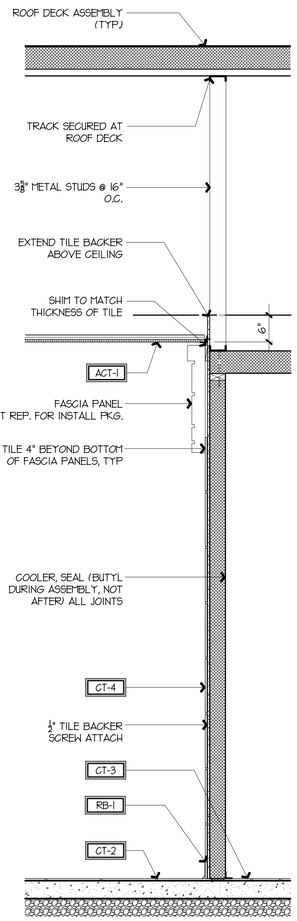
3/4" = 1'-0" | A1-A101

L10 NOT USED

3/4" = 1'-0" | XXX-XXXX

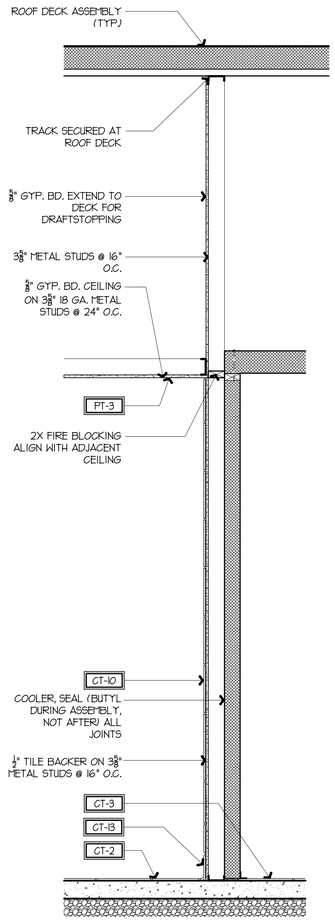
L13 NOT USED

3/4" = 1'-0" | XXX-XXXX



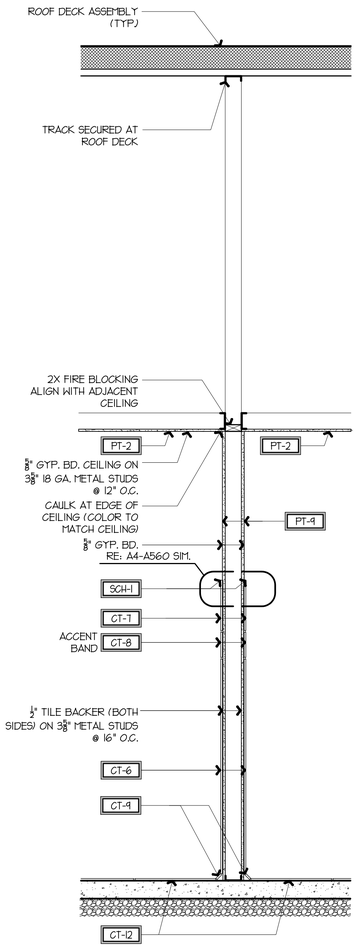
A1 WALL SECTION AT COOLER

3/4" = 1'-0" | A1-A101



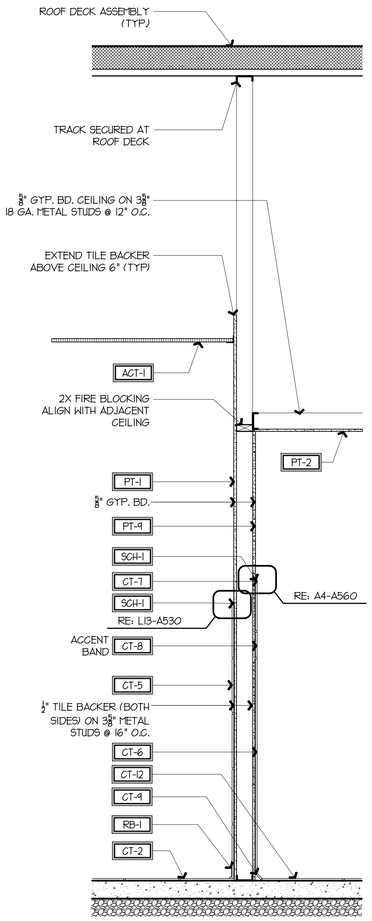
A4 WALL SEC. AT SERVICE COUNTER

3/4" = 1'-0" | A1-A101



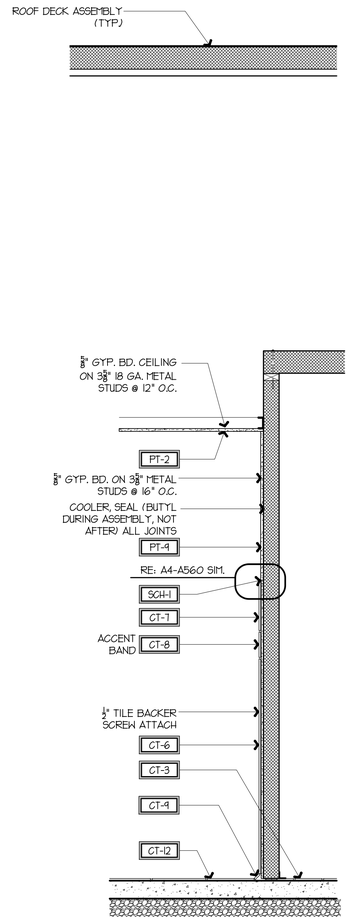
A7 WALL SECTION AT RESTROOM

3/4" = 1'-0" | A1-A101



A10 WALL SECTION AT RESTROOM

3/4" = 1'-0" | A1-A101



A13 WALL SECTION AT RESTROOM / COOLER

3/4" = 1'-0" | A1-A101

STATE OF MISSOURI
DANIEL LICKEL
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SHEET TITLE:
INTERIOR WALL SECTIONS

SHEET NUMBER:
A410

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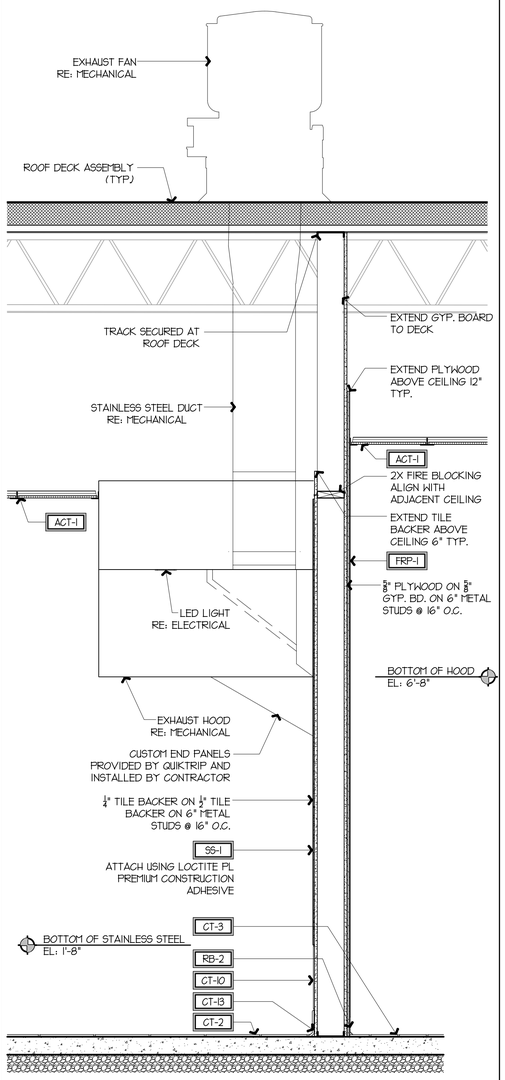
L1 NOT USED

3/4" = 1'-0" XXX-XXXX

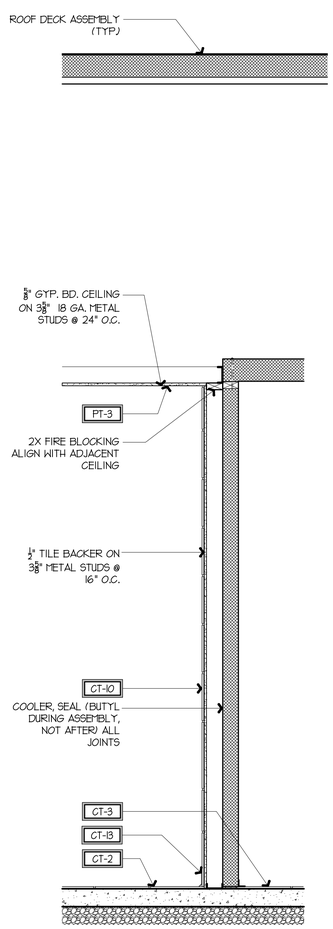


A1 WALL SECTION AT SERVICE / WORKROOM

3/4" = 1'-0" A1-A101

L4 NOT USED

3/4" = 1'-0" XXX-XXXX

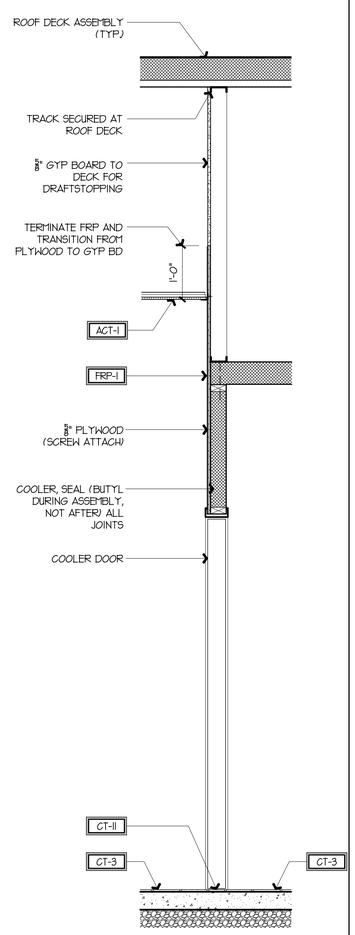


A4 WALL SECTION AT COOLER

3/4" = 1'-0" A1-A101

L7 NOT USED

3/4" = 1'-0" XXX-XXXX

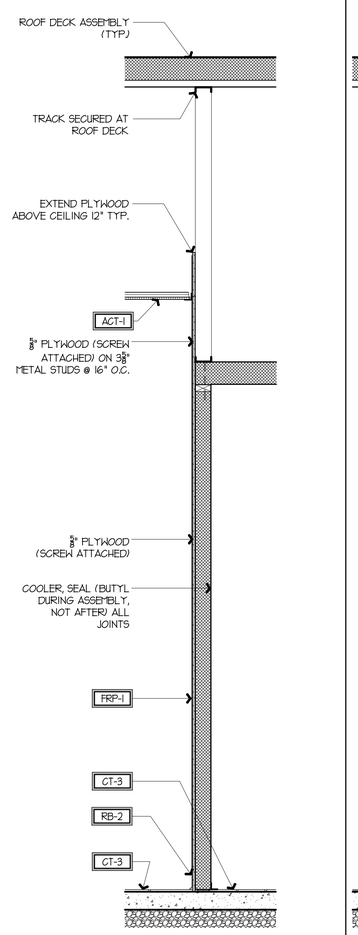


A7 WALL SECTION AT COOLER

3/4" = 1'-0" A1-A101

L9 NOT USED

3/4" = 1'-0" XXX-XXXX

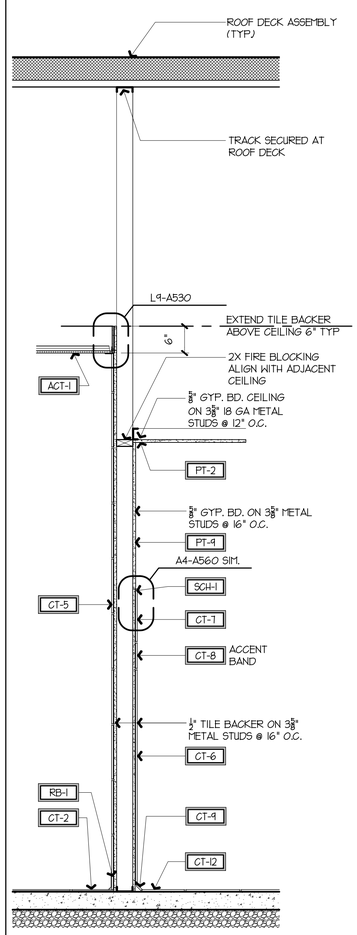


A9 WALL SECTION AT COOLER

3/4" = 1'-0" A1-A101

L12 NOT USED

3/4" = 1'-0" XXX-XXXX

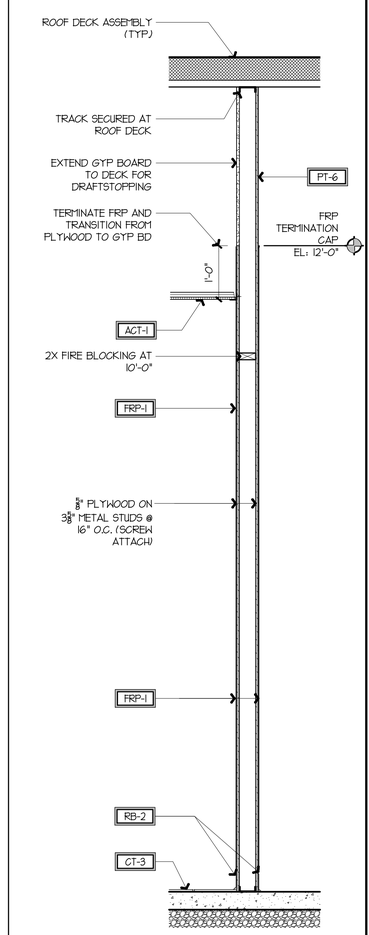


A12 WALL SECTION AT RR

3/4" = 1'-0" A1-A101

L14 NOT USED

3/4" = 1'-0" XXX-XXXX



A14 WALL SECTION

3/4" = 1'-0" A1-A101

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016784
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
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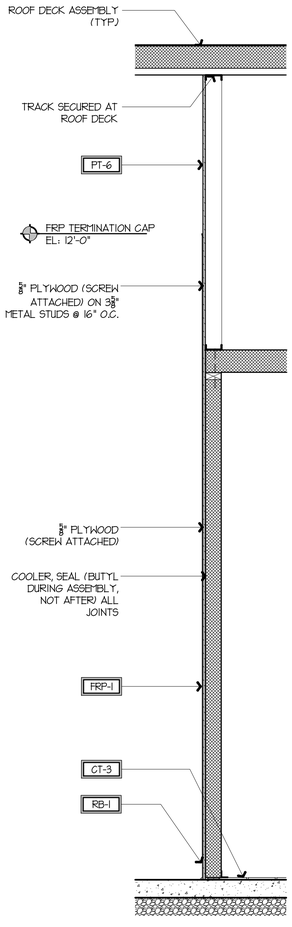
SHEET TITLE:
INTERIOR WALL SECTIONS

SHEET NUMBER:
A411



A1	NOT USED	A6	SECTION AT PLUMBING ROOM	A9	NOT USED
3/4" = 1'-0"	XXX-XXXX	3/4" = 1'-0"	A1-A101	3/4" = 1'-0"	XXX-XXXX

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STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016594
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL
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REV	DATE	DESCRIPTION

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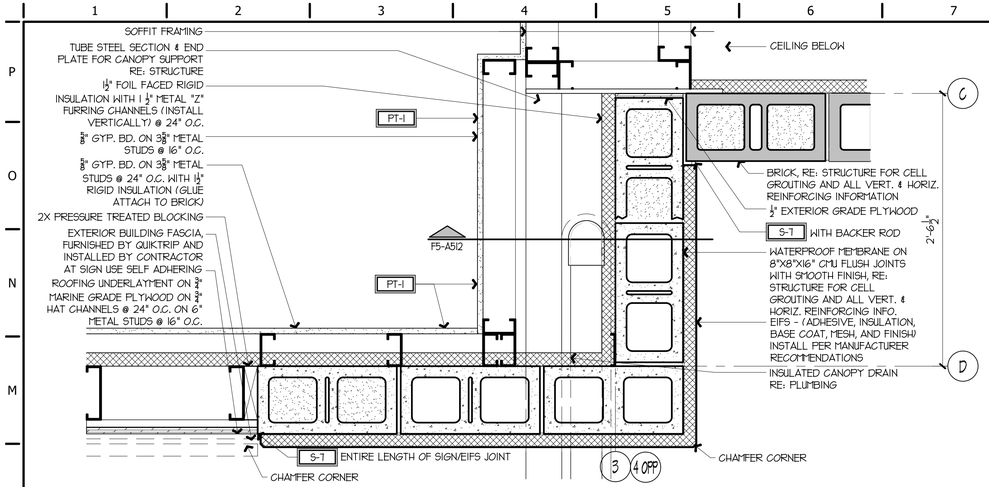
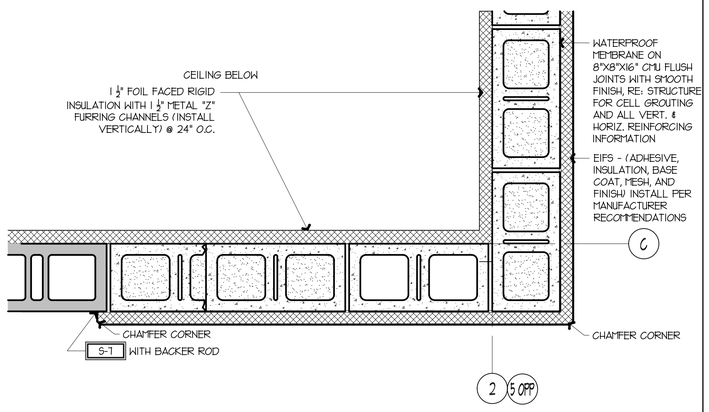
SHEET TITLE:
INTERIOR WALL SECTIONS

SHEET NUMBER:
A412



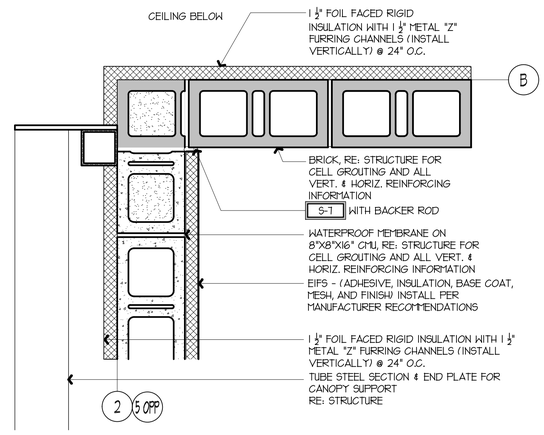
L1 PLAN DETAIL ABOVE WINDOW

1½" = 1'-0" | A1-A101, A1-A201, A1-A202



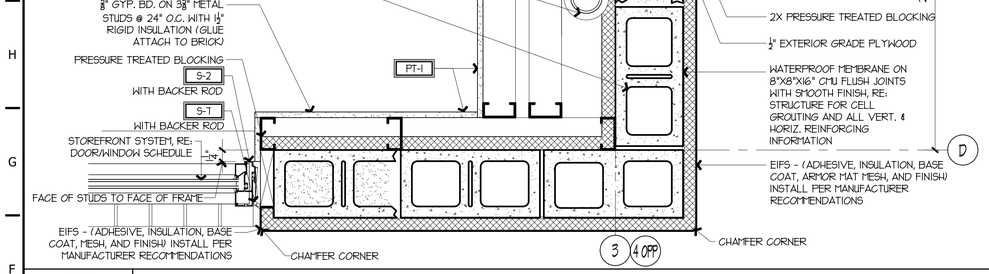
L8 PLAN DETAIL ABOVE DOOR

1½" = 1'-0" | A1-A101, A1-A201, A1-A202



L13 PLAN DETAIL ABOVE WINDOW

1½" = 1'-0" | A1-A101

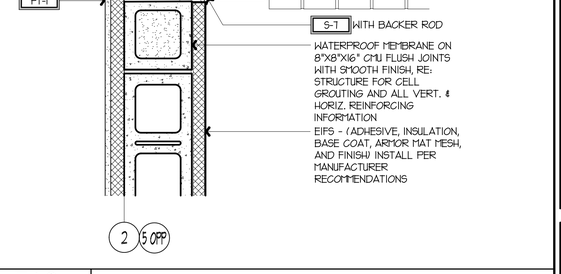


F1 PLAN DETAIL AT WINDOW

1½" = 1'-0" | A1-A101, A1-A201, A1-A202

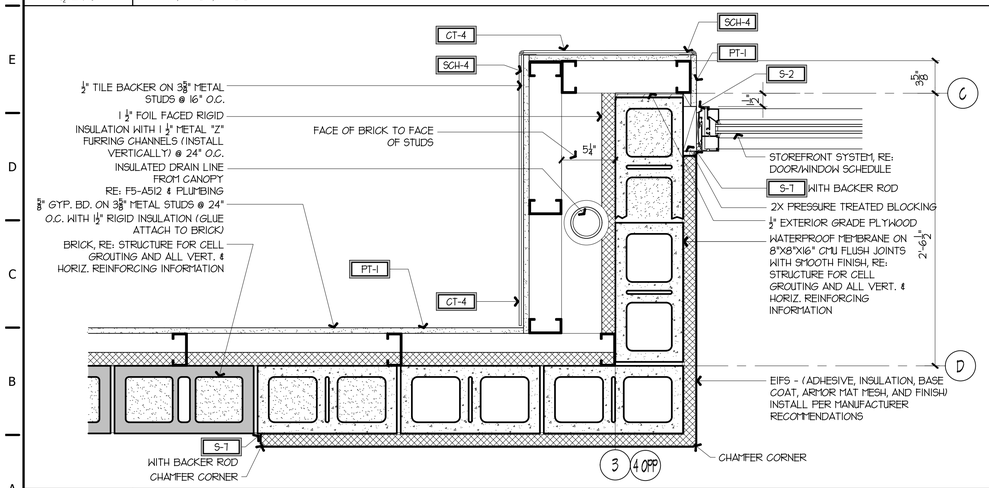
F8 NOT USED

1½" = 1'-0" | XX-XXXX



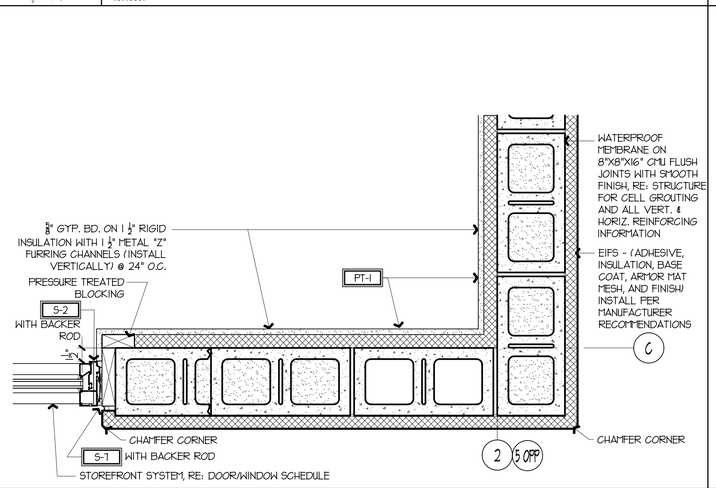
F13 PLAN DETAIL AT WINDOW

1½" = 1'-0" | A1-A101



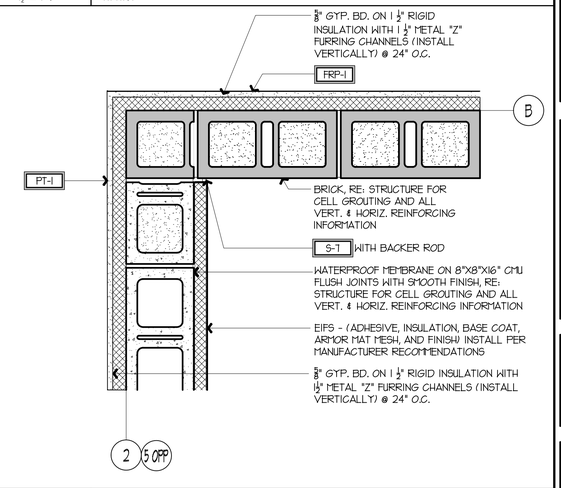
A1 PLAN DETAIL BELOW WINDOW SILL

1½" = 1'-0" | A1-A101, A1-A201, A1-A202



A8 PLAN DETAIL AT DOOR

1½" = 1'-0" | A1-A101, A1-A201, A1-A202



A13 PLAN DETAIL BELOW WINDOW SILL

1½" = 1'-0" | A1-A101

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STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016784
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE

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SHEET TITLE:
EXTERIOR PLAN DETAILS

SHEET NUMBER:
A501

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Lee's Summit, Missouri
03/10/2025

L1 NOT USED

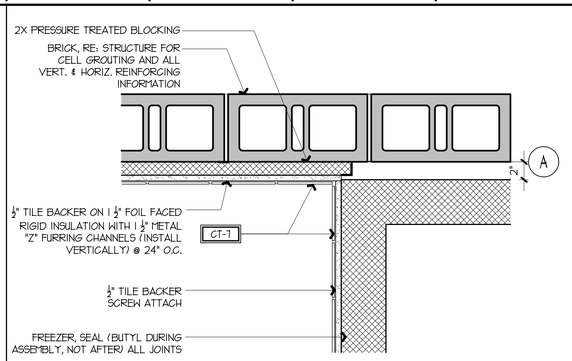
1½" = 1'-0" | XXX-XXXX

L5 NOT USED

1½" = 1'-0" | XXX-XXXX

L9 PLAN DETAIL AT FREEZER

1½" = 1'-0" | A1-A101



L13 NOT USED

1½" = 1'-0" | XXX-XXXX

F1 NOT USED

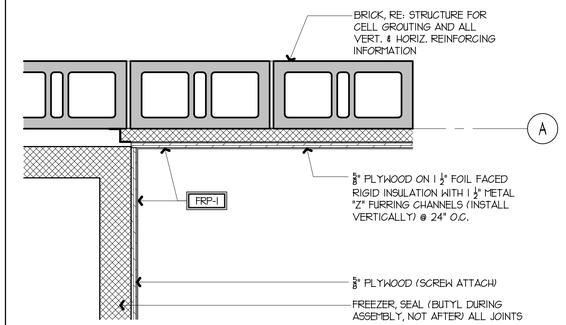
1½" = 1'-0" | XXX-XXXX

F5 NOT USED

1½" = 1'-0" | XXX-XXXX

F9 PLAN DETAIL AT FREEZER

1½" = 1'-0" | A1-A101



F13 NOT USED

1½" = 1'-0" | XXX-XXXX

A1 NOT USED

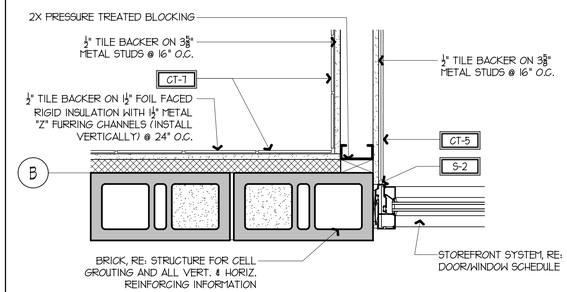
1½" = 1'-0" | XXX-XXXX

A5 NOT USED

1½" = 1'-0" | XXX-XXXX

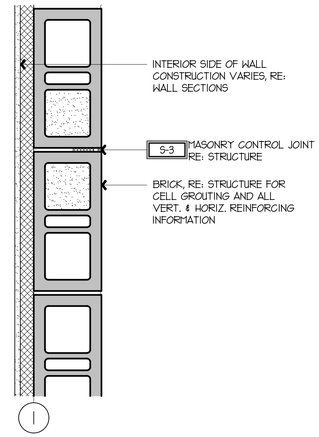
A9 PLAN DETAIL AT WINDOW / PLUMBING CHASE

1½" = 1'-0" | A1-A101



A13 PLAN DETAIL AT MASONRY CONTROL JOINT

1½" = 1'-0" | H1-A201



STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016911
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE

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ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
EXTERIOR PLAN DETAILS

SHEET NUMBER:
A502

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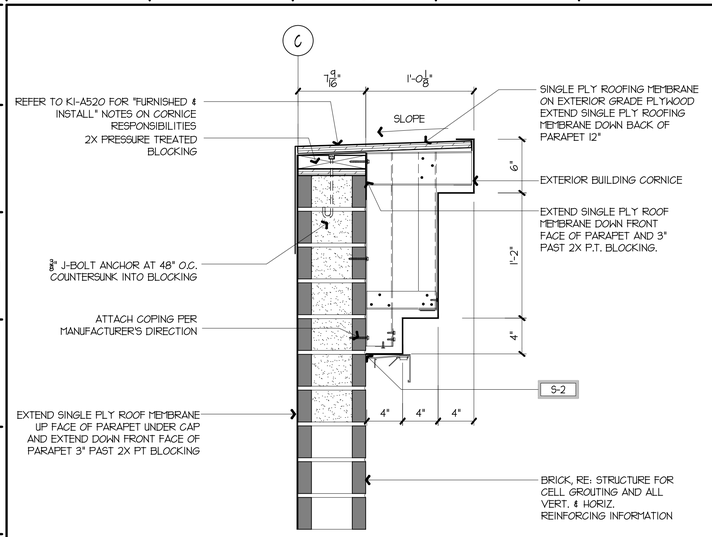
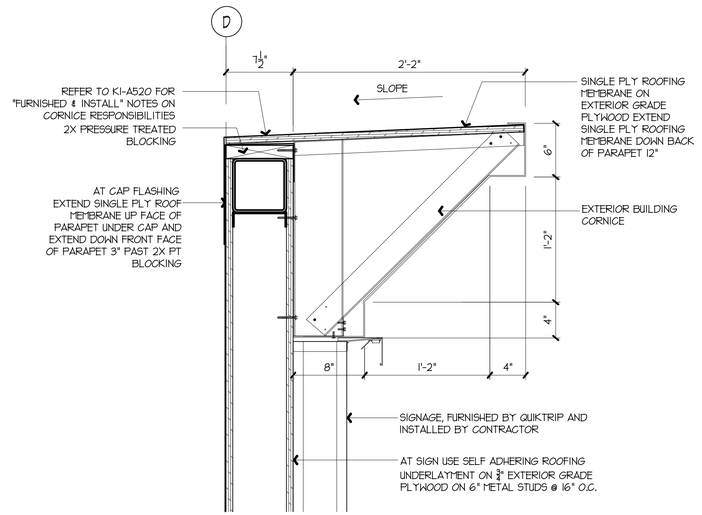
Lee's Summit, Missouri
03/10/2025



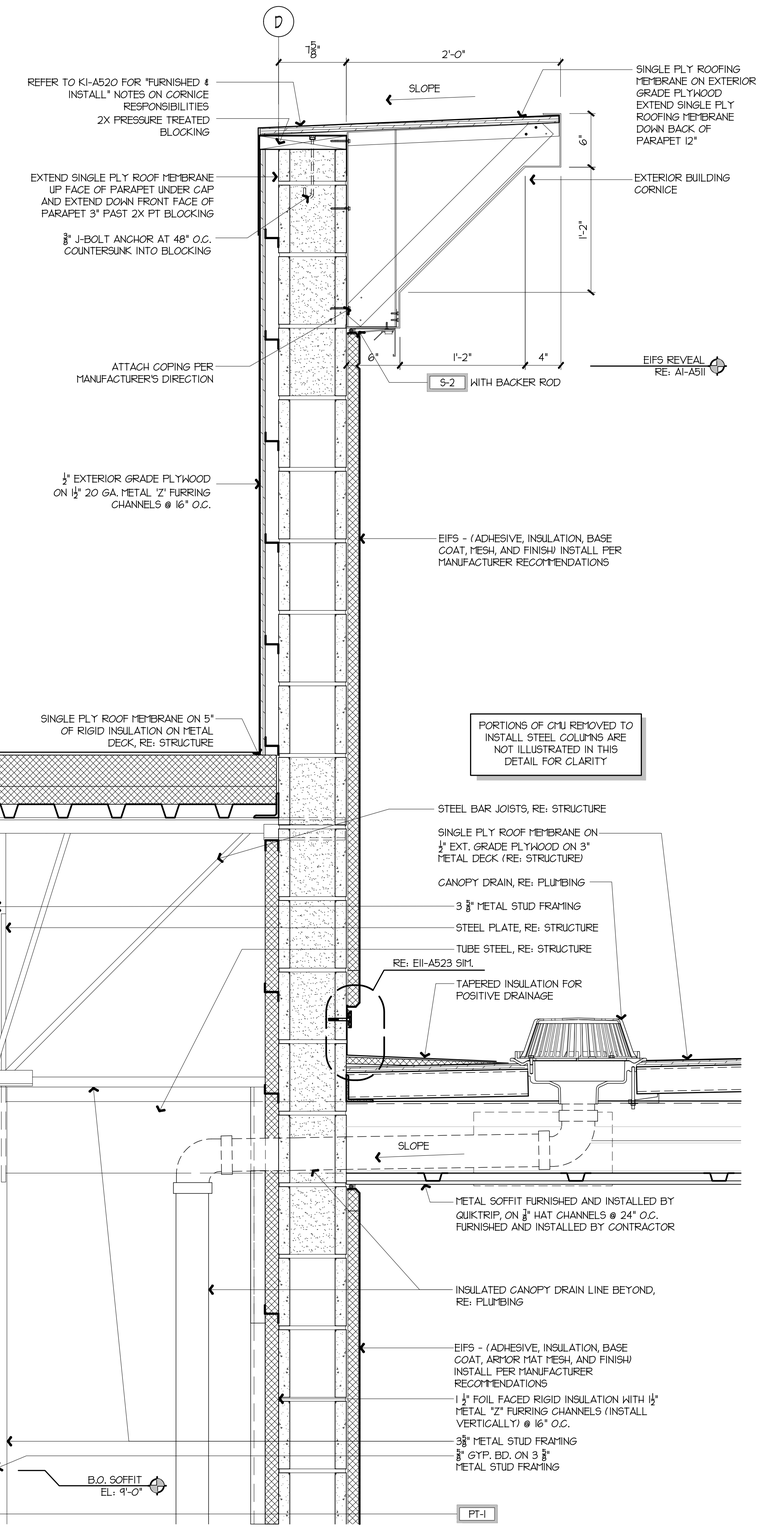
K1 PARAPET CORNICE DETAIL

1½" = 1'-0" | A11-A401



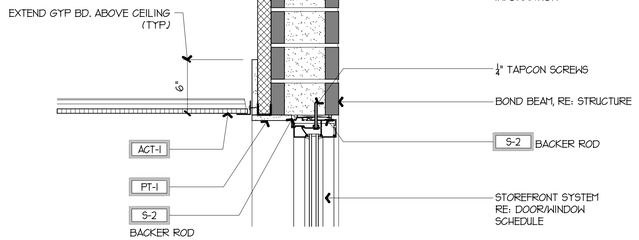
K6 PARAPET CORNICE DETAIL

1½" = 1'-0" | A1-A401



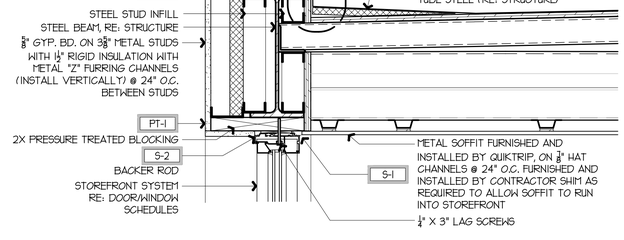
A11 ENLARGED WALL SECTION

1½" = 1'-0" | A1-A101, A6-A401, A1-A404



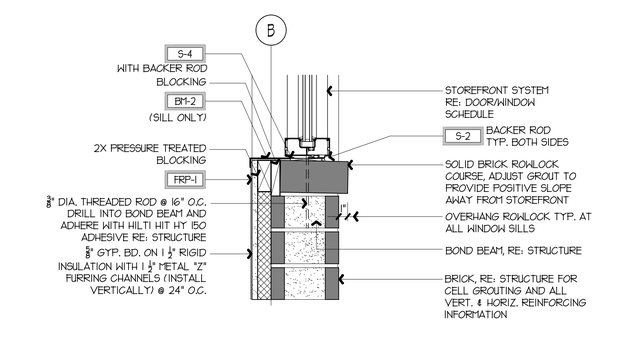
E1 WINDOW HEAD DETAIL

1½" = 1'-0" | A6-A402



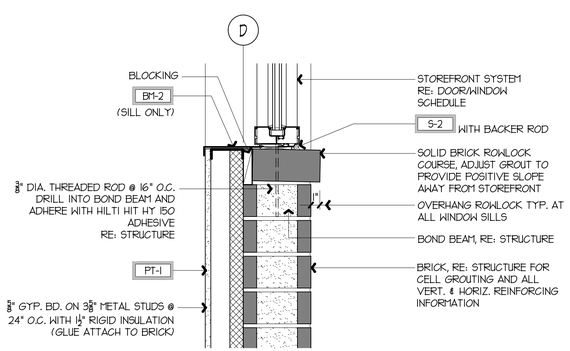
E6 WINDOW HEAD DETAIL

1½" = 1'-0" | A1-A401



A1 WINDOW SILL DETAIL

1½" = 1'-0" | A6-A402



A6 WINDOW SILL DETAIL

1½" = 1'-0" | A1-A401

STATE OF MISSOURI
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QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
EXTERIOR SECTION DETAILS

SHEET NUMBER:
A510

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

K1 NOT USED

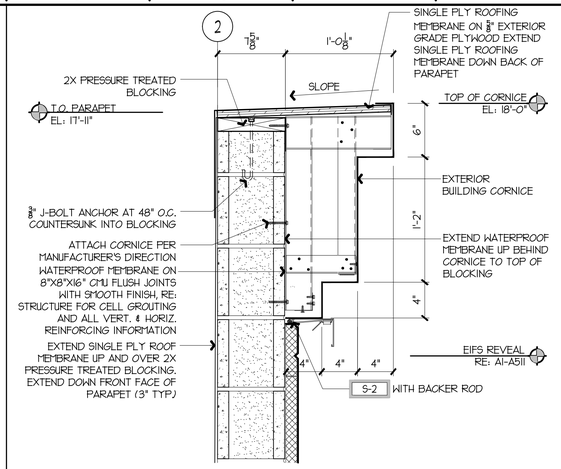
1½" = 1'-0" | XX-XXX

K5 NOT USED

1½" = 1'-0" | XXX-XXXX

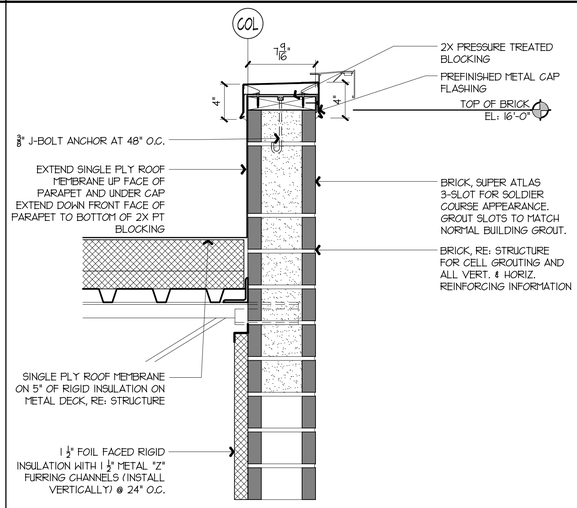
K9 PARAPET CORNICE DETAIL

1½" = 1'-0" | A1-A402



K13 PARAPET DETAIL

1½" = 1'-0" | A6, A12-A402, A6-A403



F1 NOT USED

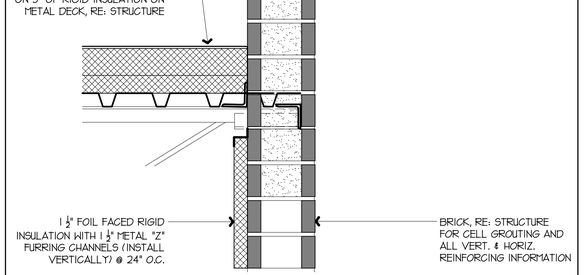
1½" = 1'-0" | XX-XXX

F5 NOT USED

1½" = 1'-0" | XXX-XXXX

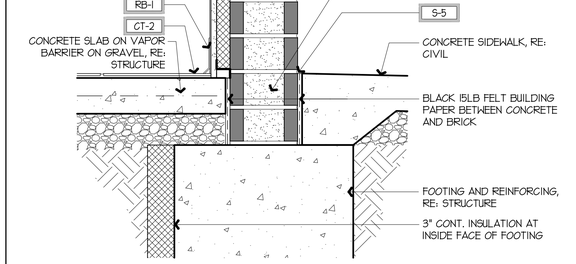
F9 GUTTER DETAIL

1½" = 1'-0" | A1, A12-A403



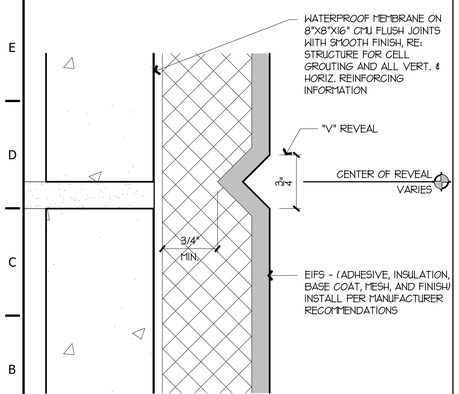
F13 BASE DETAIL

1½" = 1'-0" | A6, A12-A402



A1 EIFS REVEAL DETAIL

1'-0" = 1'-0" | TYPICAL



A5 NOT USED

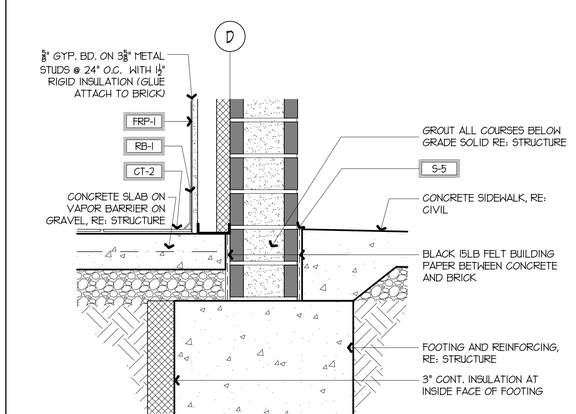
1½" = 1'-0" | XXX-XXXX

A9 NOT USED

1'-0" = 1'-0" | XXX-XXXX

A13 BASE DETAIL

1½" = 1'-0" | A1-A401



STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016911
ARCHITECT
SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
16200 Midland Drive
Shawnee, KS 66217
(P) 913.389.7888

Quik Trip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

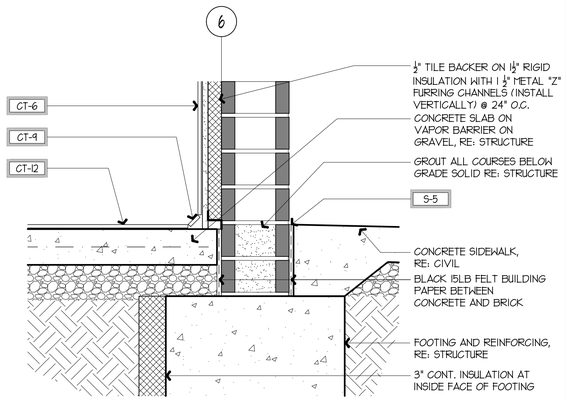
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
EXTERIOR SECTION DETAILS

SHEET NUMBER:
A511

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

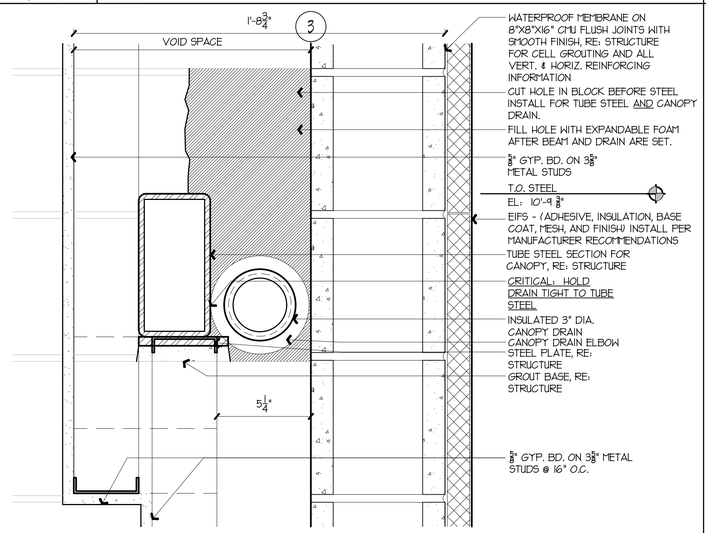


L1 RESTROOM WALL BASE DETAIL
1½" = 1'-0" | A6-A403

L5 NOT USED
1½" = 1'-0" | XX-XXXX

L10 NOT USED
1½" = 1'-0" | XX-XXXX

M13 NOT USED
1½" = 1'-0" | XX-XXXX



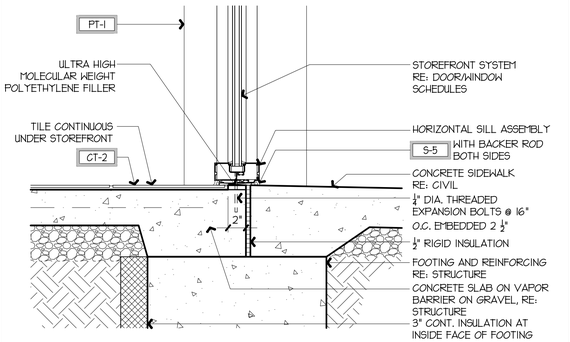
J13 NOT USED
1½" = 1'-0" | XX-XXXX

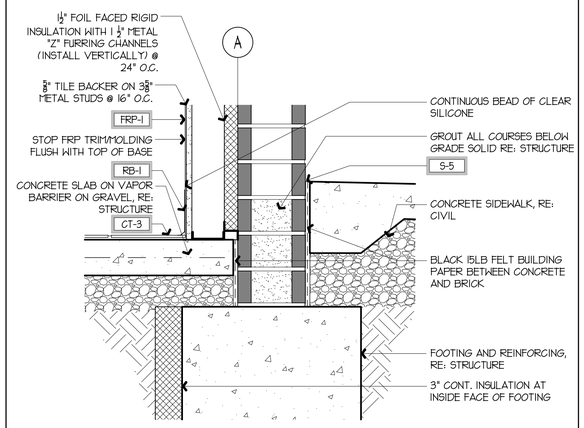
F1 NOT USED
1½" = 1'-0" | XX-XXXX

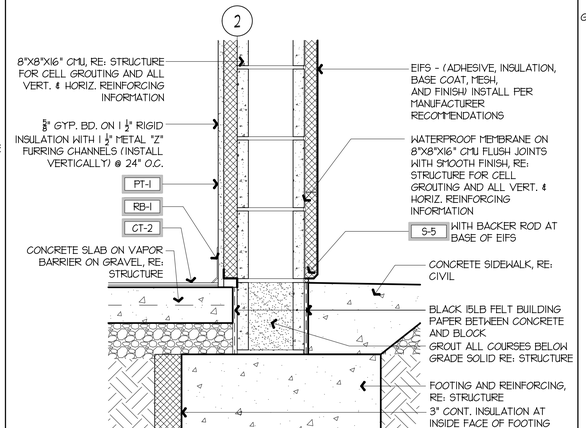
F5 SECTION AT CANOPY SUPPORT
3" = 1'-0" | L1-A501

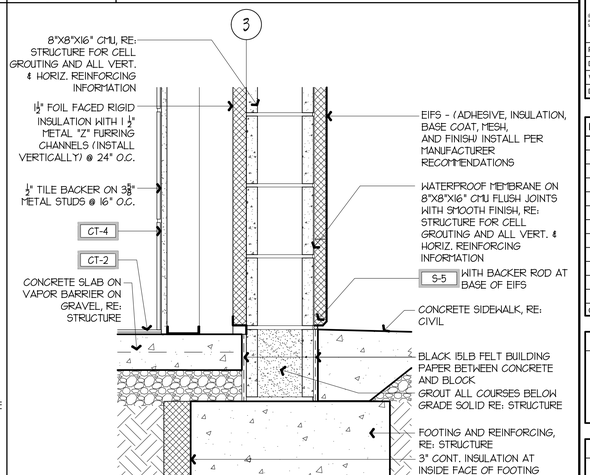
F9 NOT USED
1½" = 1'-0" | XX-XXX

F13 NOT USED
1½" = 1'-0" | XX-XXXX









A1 SILL / THRESHOLD DETAIL
1½" = 1'-0" | A11-A401, A10-A404

A5 BASE DETAIL
3" = 1'-0" | A12-A403

A9 BASE DETAIL
1½" = 1'-0" | A1-A402

A13 BASE DETAIL
1½" = 1'-0" | A1-A404

DANIEL LICKEL
NUMBER A-2001016911
STATE OF MISSOURI
ARCHITECT
SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
16200 Midland Drive
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QuikTrip No. 0183R

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
EXTERIOR SECTION DETAILS

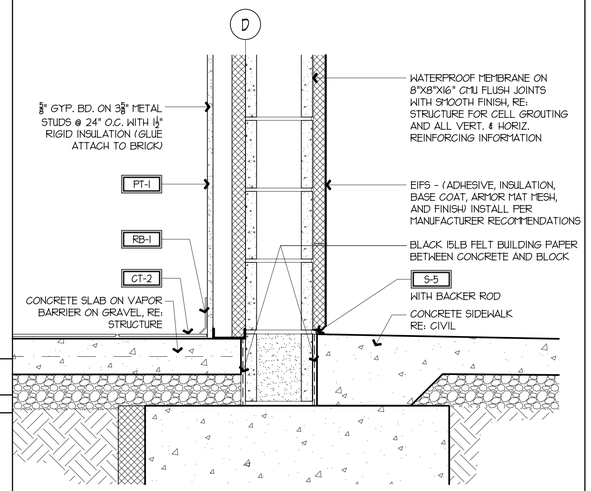
SHEET NUMBER:
A512

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

L1 NOT USED

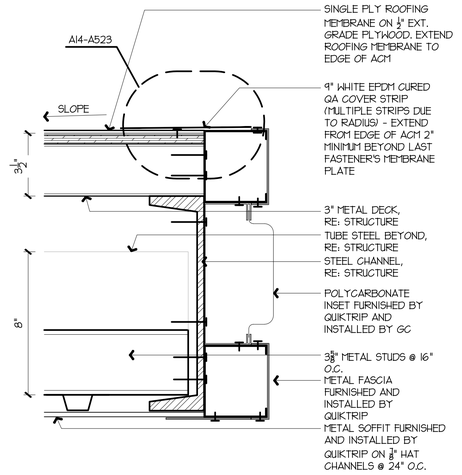
6" = 1'-0" | XXX-XXXX

K9 BASE DETAIL



1½" = 1'-0" | A6-A401

K13 CANOPY END DETAIL



3" = 1'-0" | A1, A6-A401, A10-A404

G1 NOT USED

6" = 1'-0" | XXX-XXXX

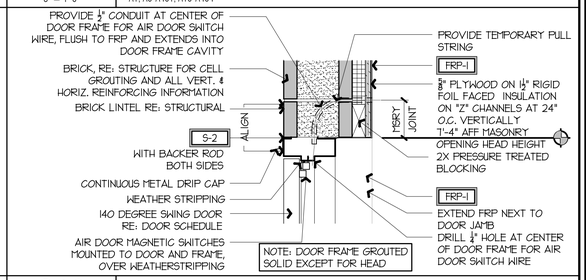
G5 NOT USED

6" = 1'-0" | XXX-XXXX

G9 NOT USED

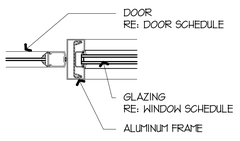
1½" = 1'-0" | XXX-XXXX

G13 HEAD DETAIL AT WORKROOM



1½" = 1'-0" | A1-A120, A1-A601

D5 JAMB DETAIL

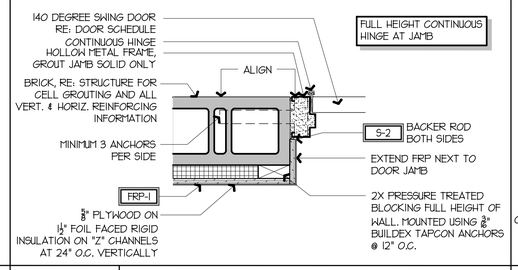


1½" = 1'-0" | A1-A601

D7 NOT USED

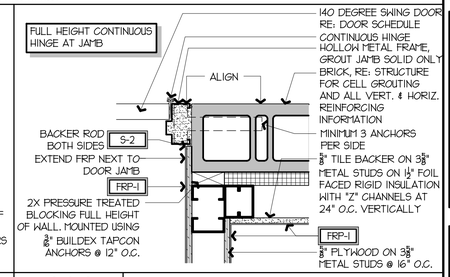
1½" = 1'-0" | XXX-XXXX

D10 JAMB DETAIL AT WORKROOM



1½" = 1'-0" | A1-A601

D14 JAMB DETAIL AT WORKROOM

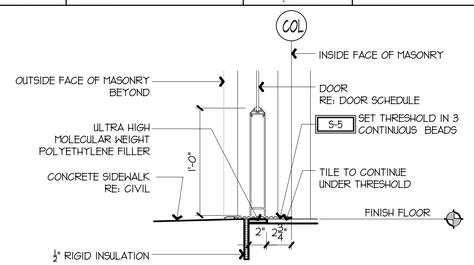


1½" = 1'-0" | A1-A601

A1 NOT USED

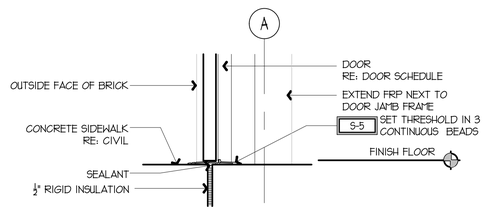
6" = 1'-0" | XXX-XXXX

A5 THRESHOLD DETAIL



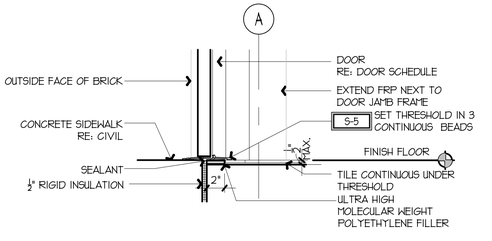
1½" = 1'-0" | A1-A601

A9 THRESHOLD DETAIL AT PLUMBING ROOM



1½" = 1'-0" | A1-A601

A13 THRESHOLD DETAIL AT WORKROOM



1½" = 1'-0" | A1-A601

STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016911
ARCHITECT
SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
16200 Midland Drive
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QuikTrip No. 0183R

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

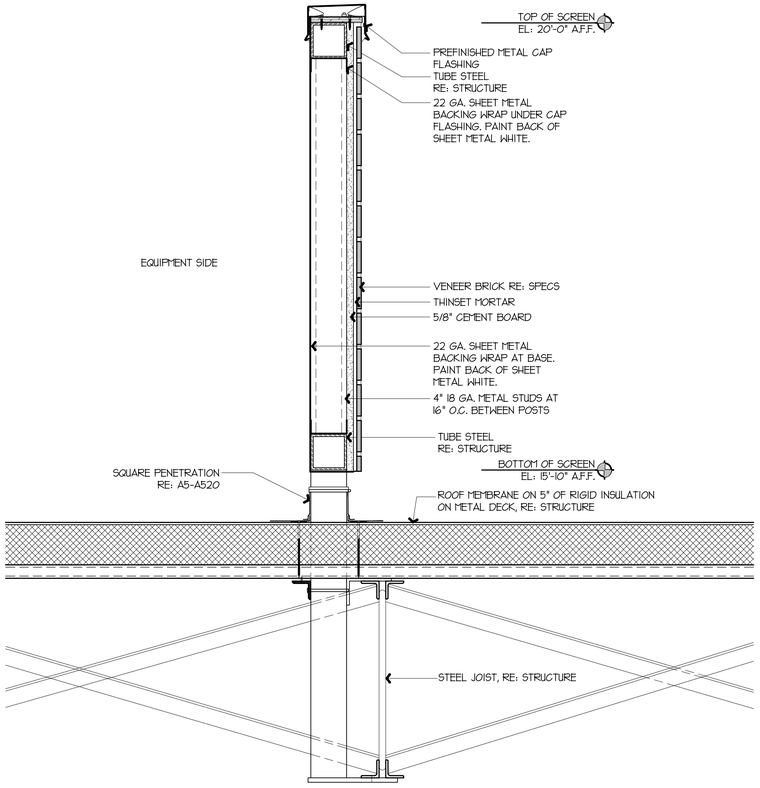
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

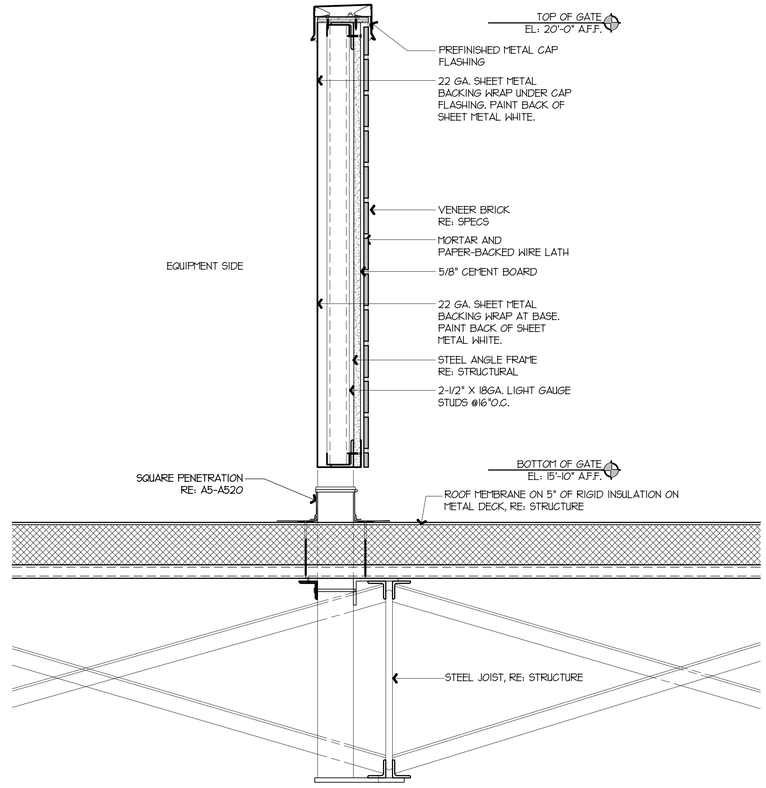
SHEET TITLE:
EXTERIOR SECTION DETAILS

SHEET NUMBER:
A513

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



A1 — SECTION AT MECHANICAL SCREEN
1½" = 1'-0" — A1-A130



A9 — SECTION AT MECHANICAL SCREEN GATE
1½" = 1'-0" — A1-A130

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016944
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE

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(P) 913.389.7888

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

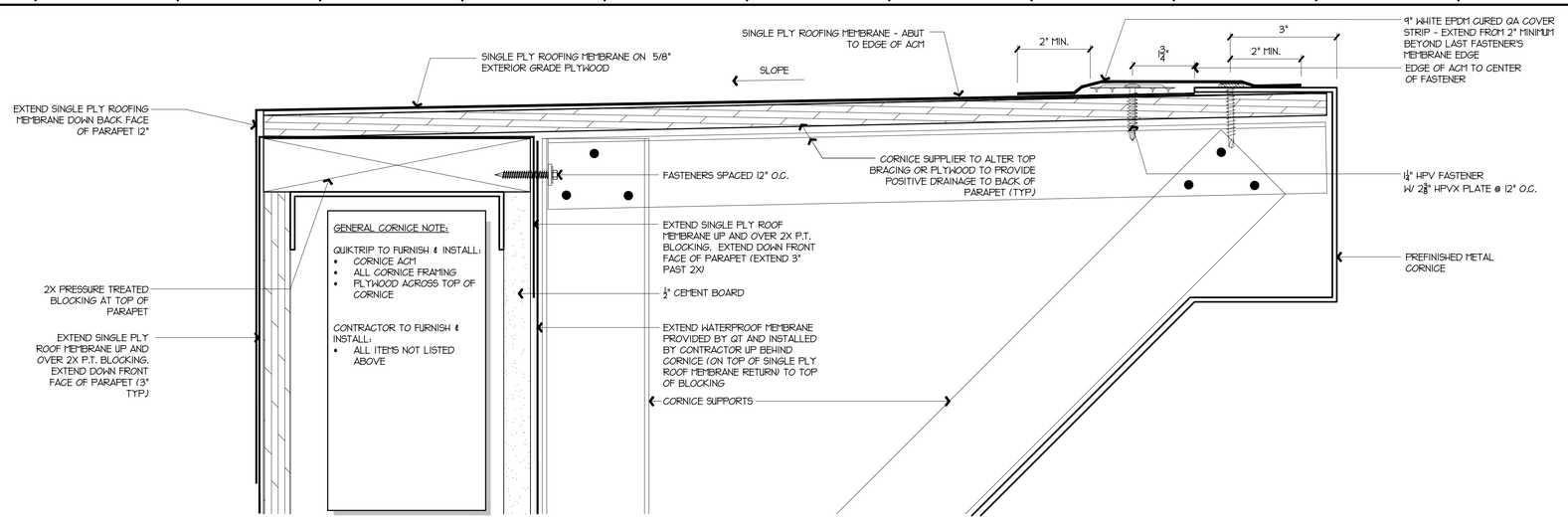
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
EXTERIOR SECTION DETAILS

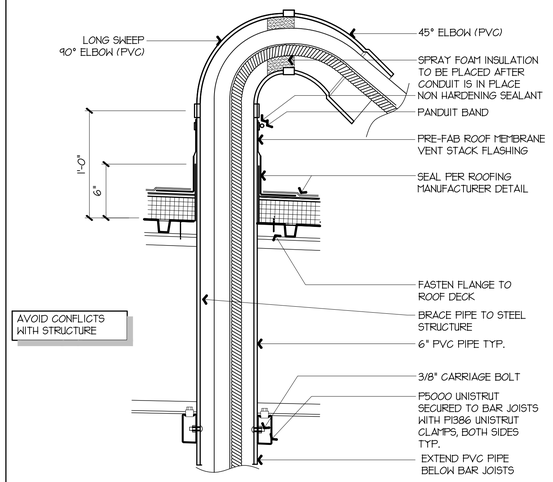
SHEET NUMBER:
A514

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



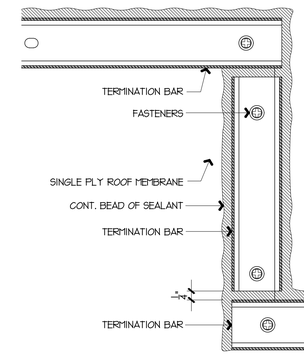
K1 PARAPET CAP DETAIL

6" = 1'-0" | K1, K6, A11-A510, K5-A511



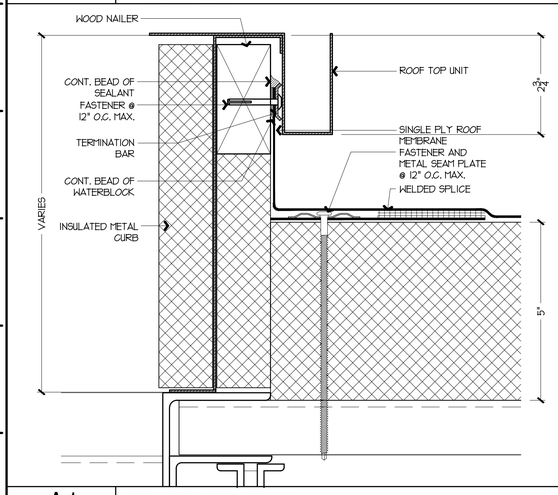
K13 CONDUIT ROOF PENETRATION DETAIL

1 1/2" = 1'-0" | A1-A130



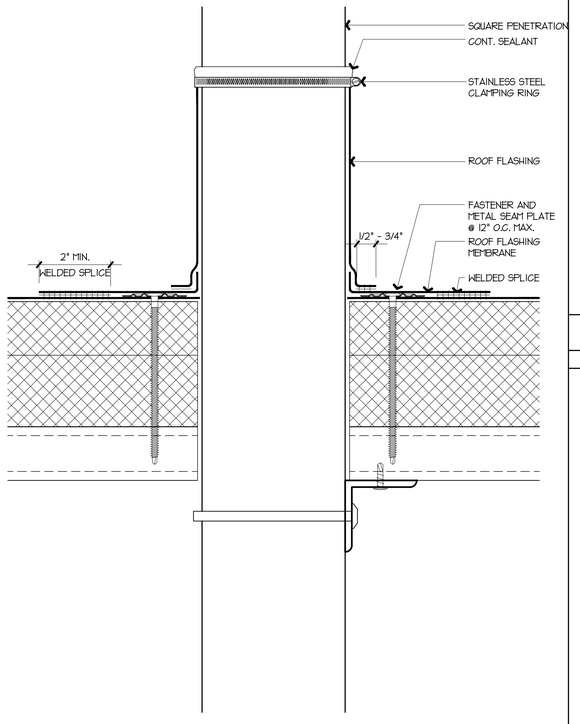
F1 ROOFING TERMINATION DETAIL

6" = 1'-0" | TYPICAL DETAIL IF NECESSARY



A1 RTU PENETRATION

6" = 1'-0" | A1-A130

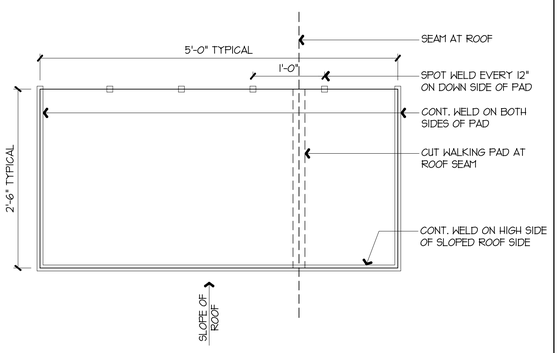


A5 SQUARE PENETRATION

6" = 1'-0" | A1-A130

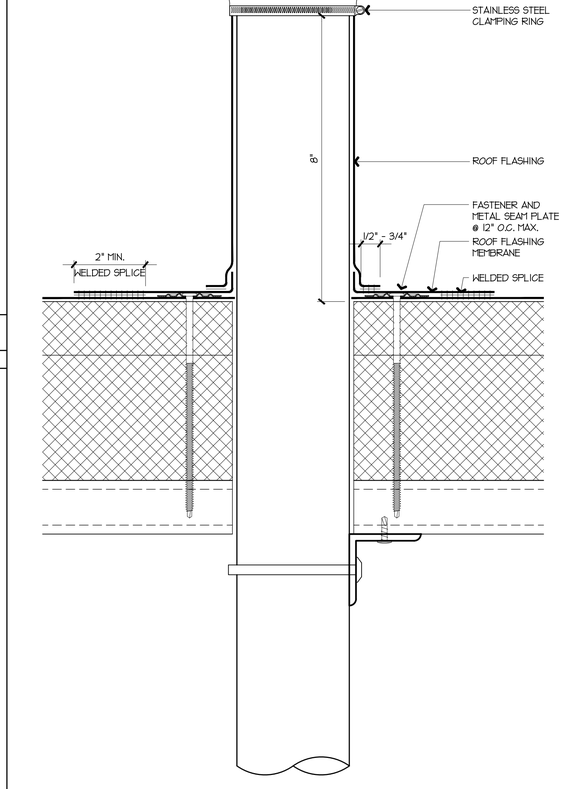
E9 NOT USED

1" = 1'-0" | XX-XXX



A9 ROOF WALKING PAD

1" = 1'-0" | A1-A130



A13 ROUND PENETRATION

6" = 1'-0" | A1-A130

STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016744
ARCHITECT
SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
16200 Midland Drive
Shawnee, KS 66217
(P) 913.389.7888

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LEES SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:
A520

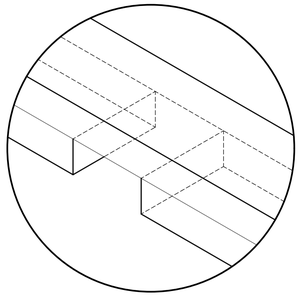
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

K1 NOT USED

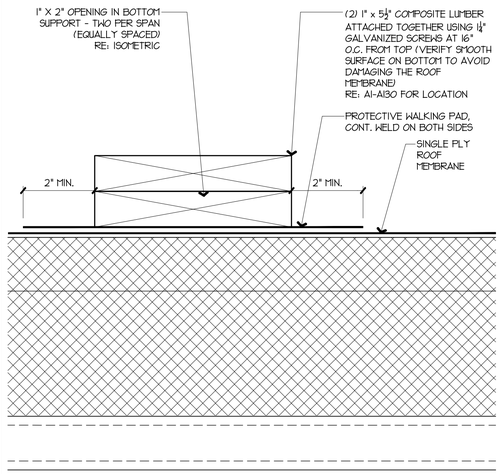
6" = 1'-0" | XX-XXXX

K5 NOT USED

6" = 1'-0" | XX-XXXX

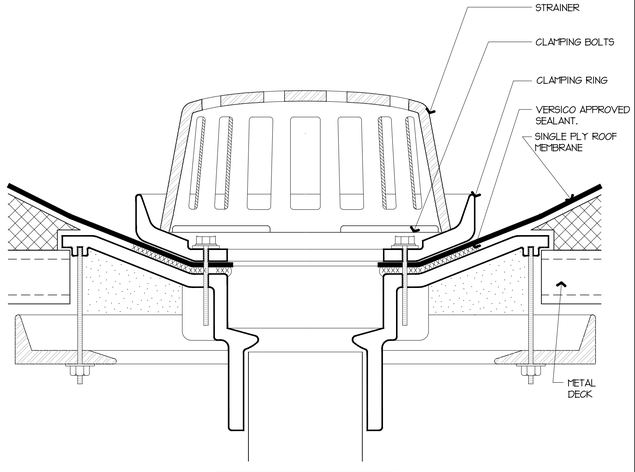


ISOMETRIC



A1 SUPPORT DETAIL

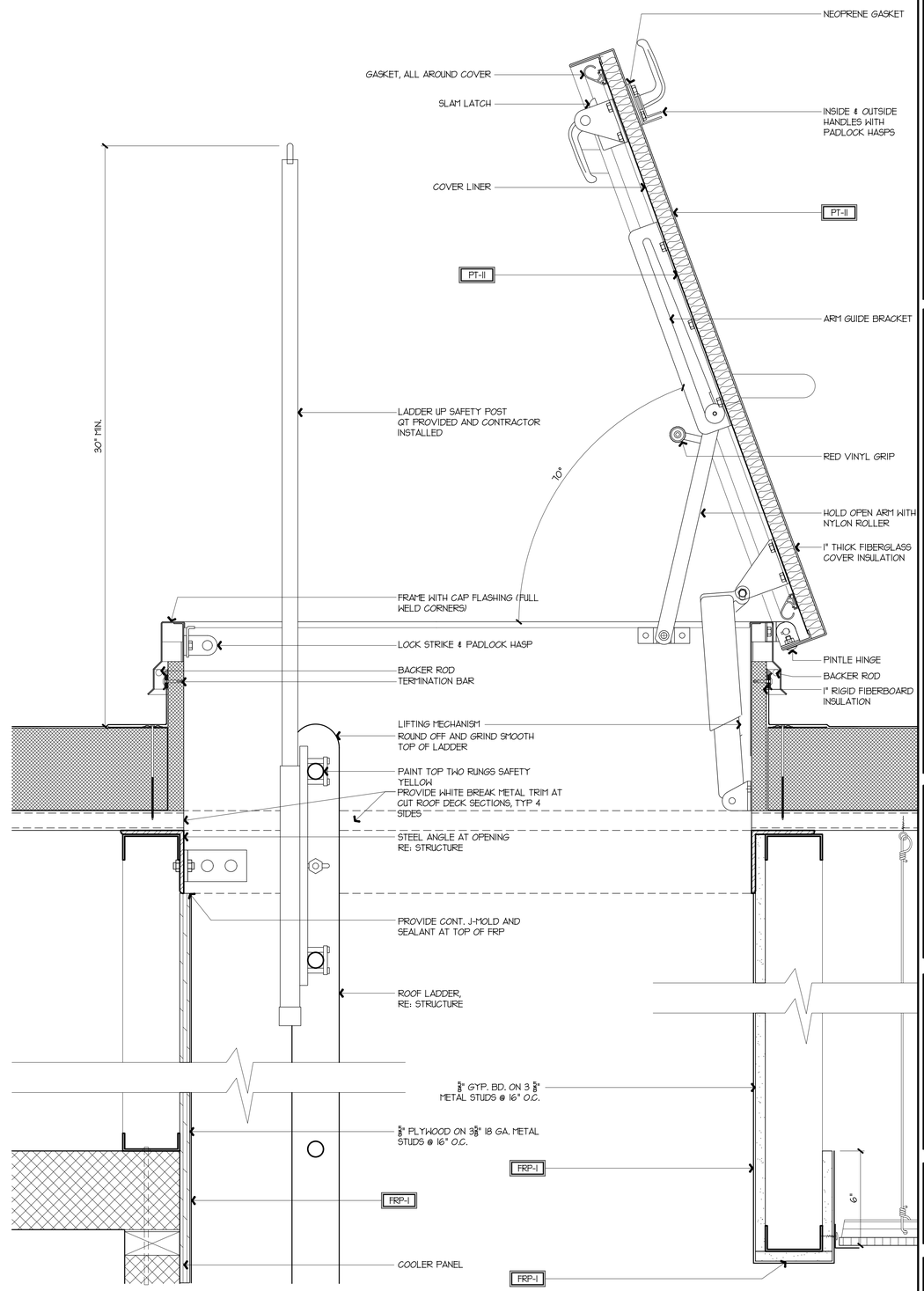
6" = 1'-0" | A1-A130



REFER TO MANUFACTURER'S DETAIL FOR ADDITIONAL INSTALLATION INSTRUCTIONS.

A5 OVERFLOW SCUPPER DETAIL

6" = 1'-0" | A1-A130



A9 ROOF HATCH SECTION

6" = 1'-0" | A1-A120, A1-A130

STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016911
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G35E
DATE	11-01-2024

REV	DATE	DESCRIPTION

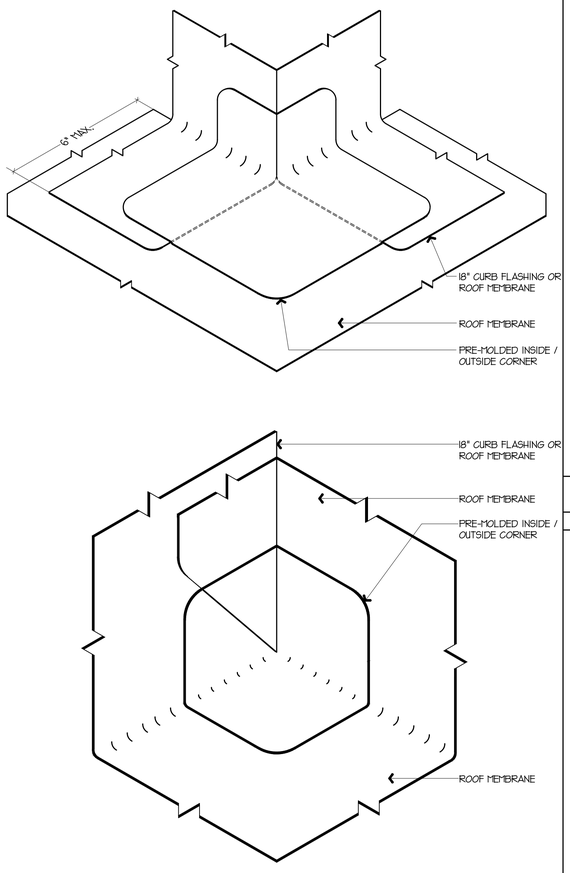
ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ROOF DETAILS

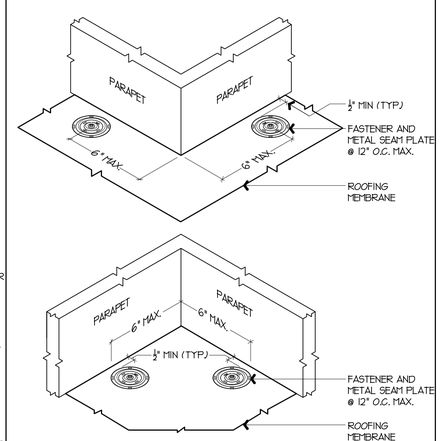
SHEET NUMBER:
A521

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

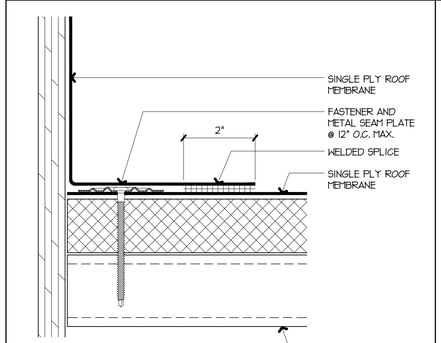
K1	NOT USED	K5	NOT USED	K9	NOT USED	K13	NOT USED
3" = 1'-0"	XX-XXX	3" = 1'-0"	XX-XXX	3" = 1'-0"	XX-XXX	3" = 1'-0"	XX-XXX

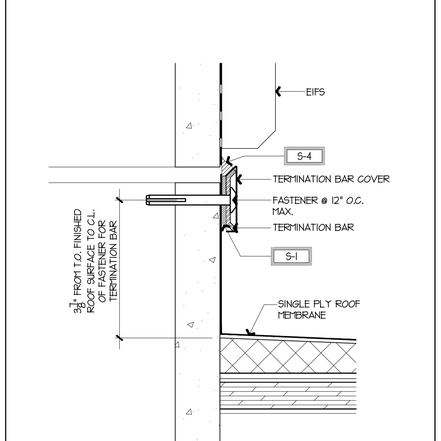


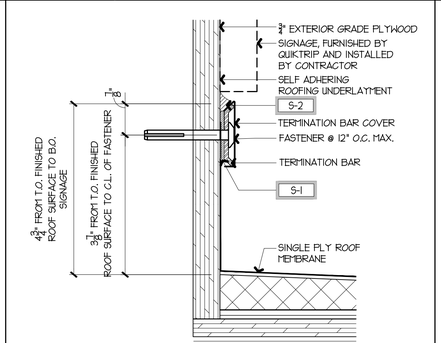
A1	INSIDE/OUTSIDE CORNER	A5	PARAPET TRANSITION DETAIL	A8	NOT USED	A11	ROOFING TERMINATION AT SIGN
6" = 1'-0"	STANDARD DETAIL AT PERIMETER	6" = 1'-0"	STANDARD DETAIL AT PERIMETER	6" = 1'-0"	XX-XXX	6" = 1'-0"	E6-A510

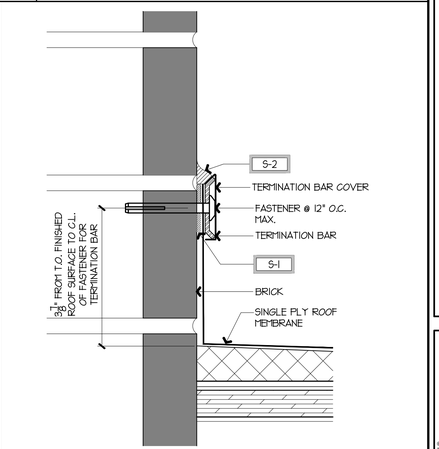


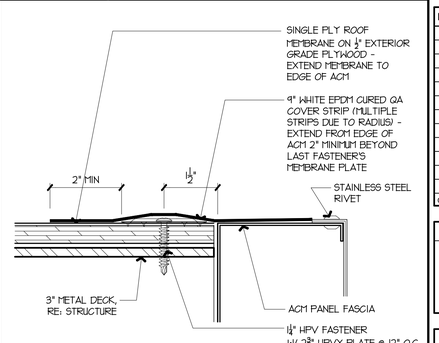
E5	INSIDE/OUTSIDE CORNER	E8	NOT USED	E11	ROOFING TERMINATION AT CMU	E14	ROOFING TERMINATION AT BRICK
N.T.S.	STANDARD DETAIL AT PERIMETER	3" = 1'-0"	XX-XXX	6" = 1'-0"	A11-A510, F5-A511	6" = 1'-0"	A8-A550











A14	CURVED ROOF EDGE DETAIL		
6" = 1'-0"	K13-A513		

DANIEL J. LICKEL
NUMBER A-2001016784
STATE OF MISSOURI
ARCHITECT
SIGNATURE DATE: 11/25/2024

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VERSION	G3SE
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REV	DATE	DESCRIPTION

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SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:
A523

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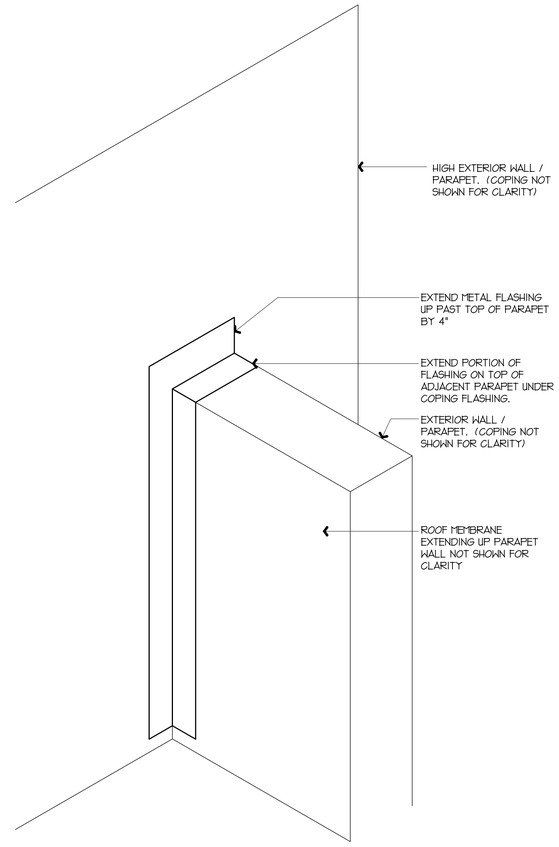
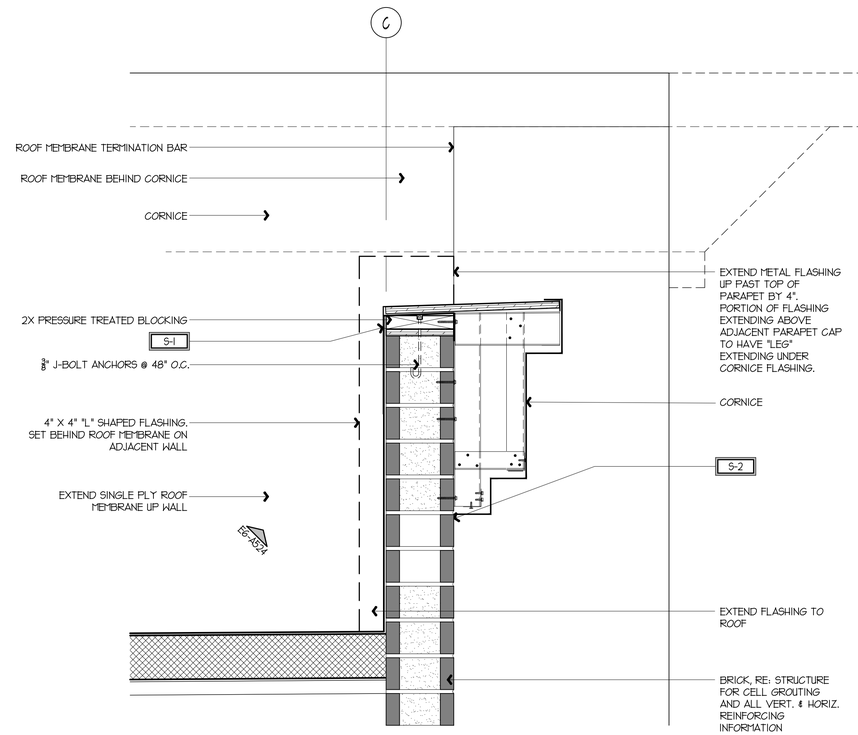
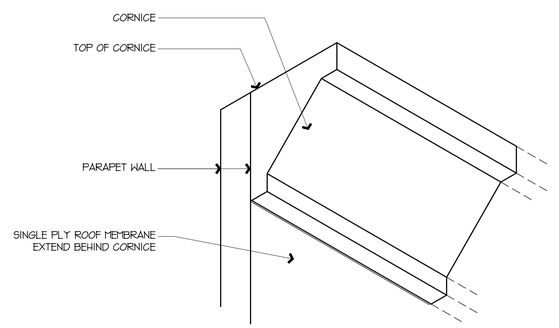
Lee's Summit, Missouri
03/10/2025







E1	NOT USED	
1 1/2" = 1'-0"	XXX-XXXX	
E6	FLASHING DETAIL	
1 1/2" = 1'-0"	A1-A130, E10-A524	
E10	FLASHING DETAIL	
1 1/2" = 1'-0"	A1-A130	
A1	NOT USED	
1 1/2" = 1'-0"	XXX-XXXX	
A6	NOT USED	
N.T.S.	XXX-XXXX	
A11	ROOF DETAIL	
N.T.S.	A1-A130	

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016944
ARCHITECT

SIGNATURE DATE: 11/25/2024

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SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:
A524

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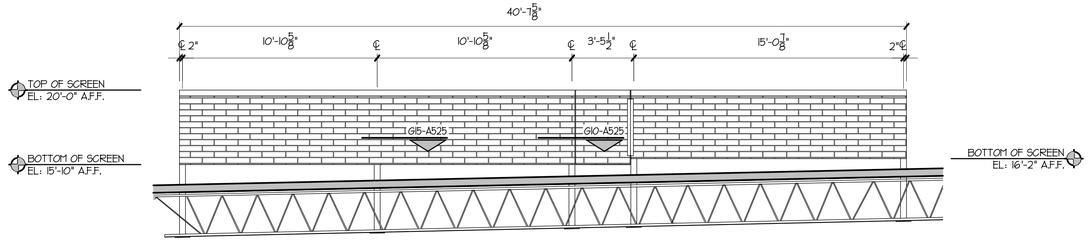
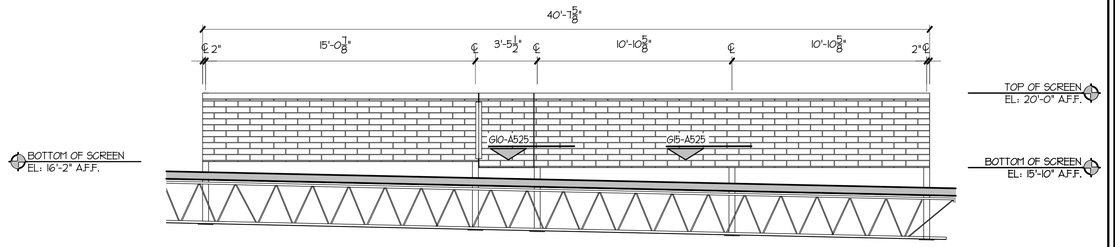
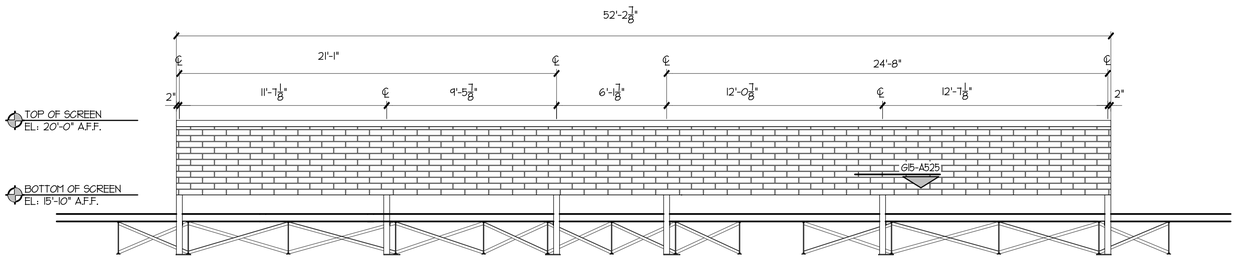


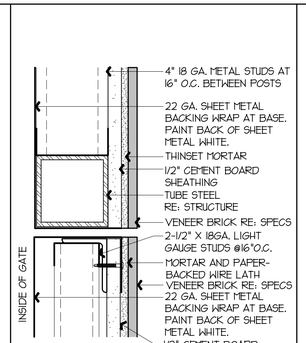
L1 MECHANICAL SCREEN ELEVATION (SIDE)
1/4" = 1'-0" | A1-A130



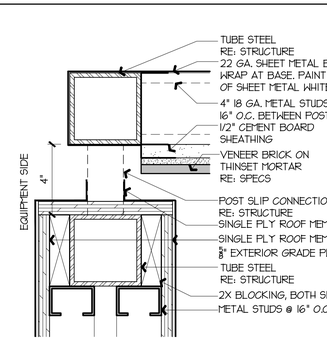
L9 MECHANICAL SCREEN ELEVATION (SIDE)
1/4" = 1'-0" | A1-A130



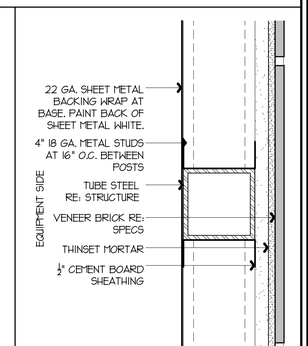
G1 MECHANICAL SCREEN ELEVATION (REAR)
1/4" = 1'-0" | A1-A130



G10 GATE DETAIL
3" = 1'-0" | A1-A130, L1, L9-A525



G12 DTL AT PARAPET & MECH. SCRN
3" = 1'-0" | A1-A130



G15 DTL. AT SCREEN
3" = 1'-0" | A1-A130, A6, L1, L9, G1-A525

A1 NOT USED
6" = 1'-0" | XXX-XXX

A6 MECHANICAL SCREEN ELEVATION (FRONT)
1/4" = 1'-0" | A1-A130

DANIEL LICKEL
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STATE OF MISSOURI
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DIVISION	KANSAS CITY
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SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:
A525

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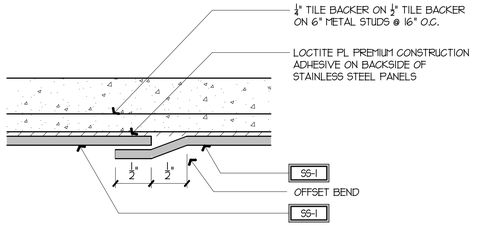
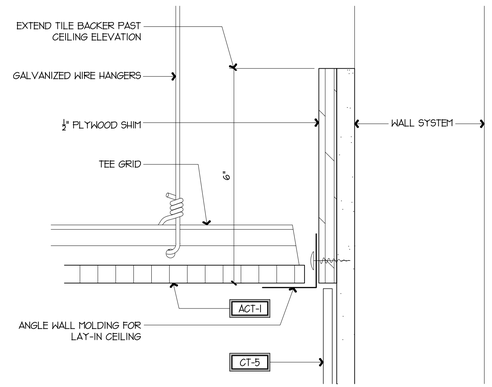
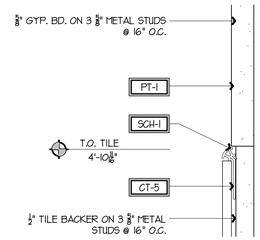
Lee's Summit, Missouri
03/10/2025





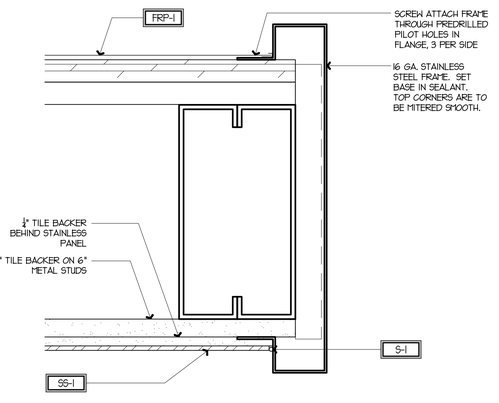


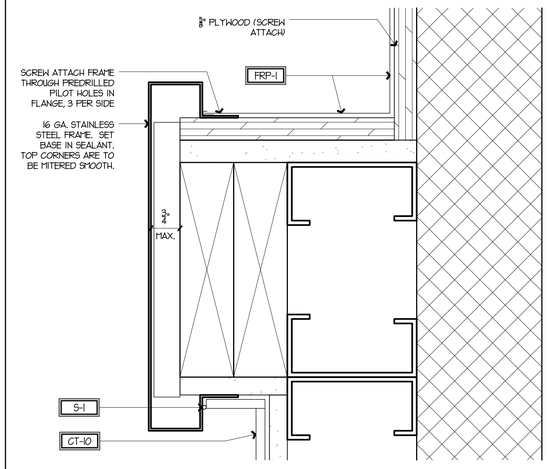
L1	NOT USED
1½" = 1'-0"	XX-XXX

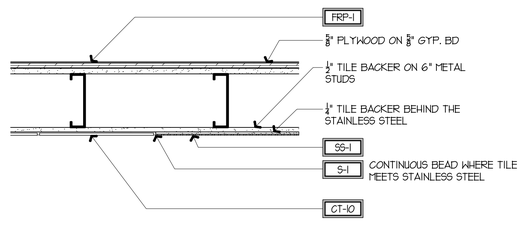
L5	STAINLESS STEEL PANEL JOINT
1'-0" = 1'-0"	E13-A211

L9	CEILING TRANSITION DETAIL
1½" = 1'-0"	XX-XXX

L13	TRANSITION DETAIL
6" = 1'-0"	A10-A410, A1-A412





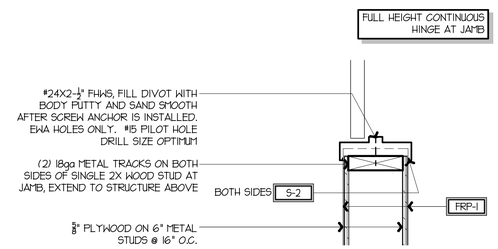


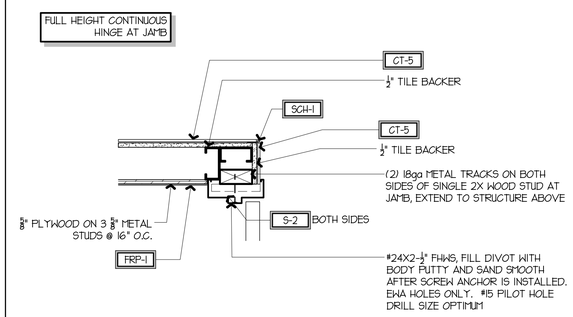
F1	NOT USED
1½" = 1'-0"	XX-XXX

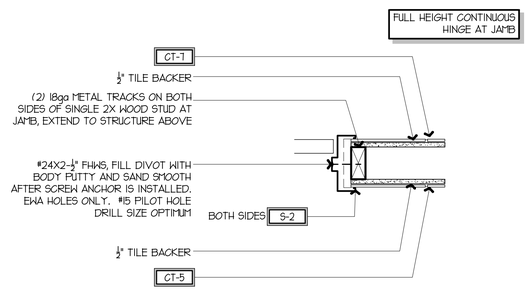
F5	JAMB DETAIL AT DOOR #1/102
6" = 1'-0"	A1-A601

F9	JAMB DETAIL AT DOOR #1/102
6" = 1'-0"	A1-A601

F13	TILE TO STAINLESS STEEL PANEL TRANSITION
1½" = 1'-0"	A1-A101







A1	NOT USED
1½" = 1'-0"	XX-XXX

A5	JAMB/HEAD DETAIL AT POCKET DOOR
1½" = 1'-0"	A1-A601

A9	JAMB/HEAD DETAIL AT UTILITY CLOSET
1½" = 1'-0"	A1-A601

A13	JAMB/HEAD DETAIL AT RESTROOM
1½" = 1'-0"	A1-A601

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016944
ARCHITECT

SIGNATURE DATE: 11/25/2024

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SHEET TITLE:
INTERIOR DETAILS

SHEET NUMBER:
A530

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Lee's Summit, Missouri
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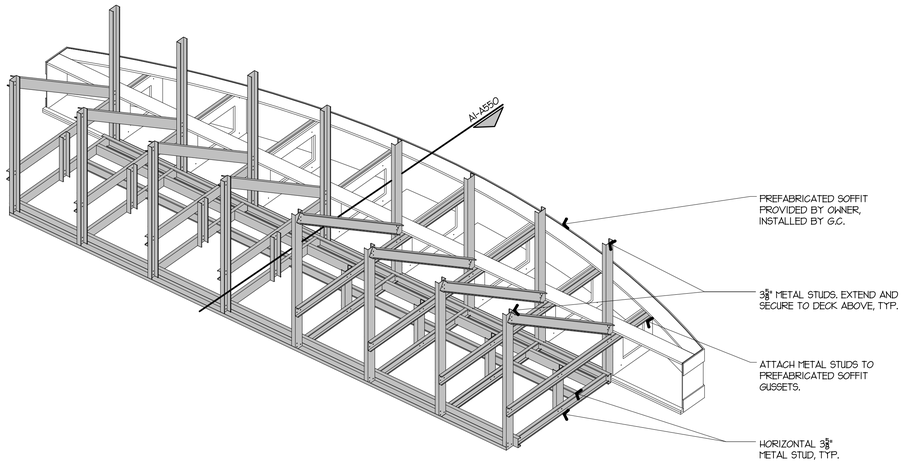
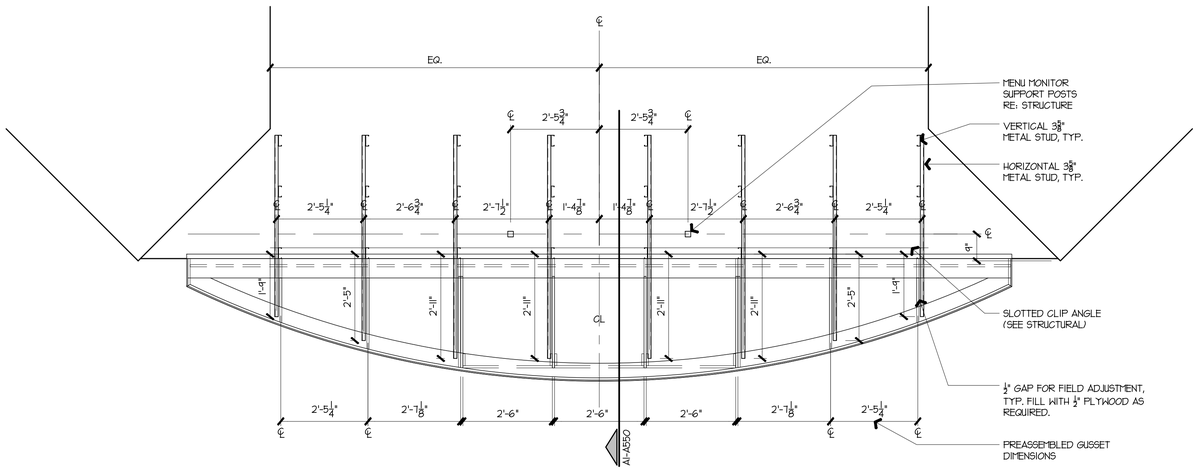


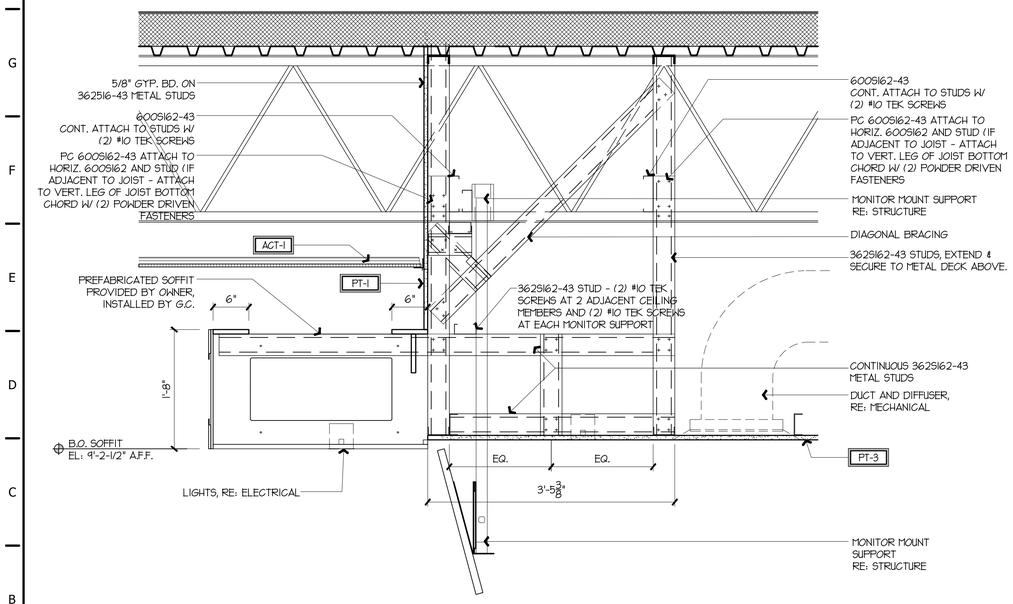
J1 QT KITCHENS PREFABRICATED SOFFIT AXON

3/8" = 1'-0"



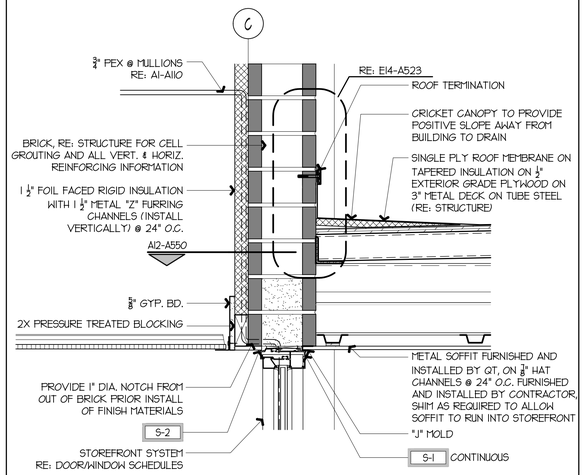
J8 QT KITCHENS PREFABRICATED SOFFIT PLAN

3/8" = 1'-0" | A1-A120



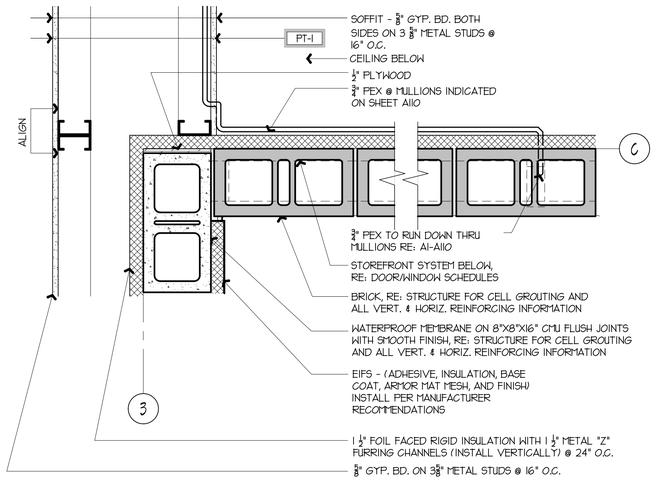
A1 QT KITCHENS PREFABRICATED SOFFIT SECTION

3/8" = 1'-0" | A1-A120, J1-A550, J8-A550



A8 HEAD CONDITION AT FRONT DOOR

1½" = 1'-0" | A1-A110, A11-A401



A12 CEILING TRANSITION DETAIL

1½" = 1'-0" | A1-A110, A1-A120, A8-A550

STATE OF MISSOURI
DANIEL LICKEL
NUMBER A-2001016944
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SHEET TITLE:
REFLECTED CEILING DETAILS

SHEET NUMBER:
A550

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Lee's Summit, Missouri
03/10/2025

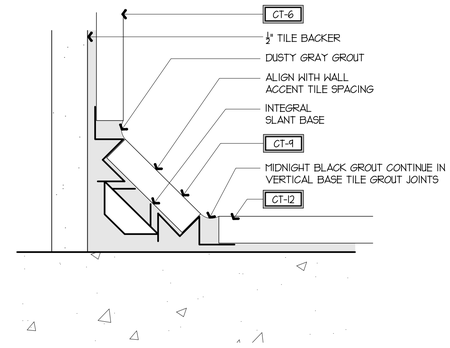
L1 NOT USED

3" = 1'-0" | XXX-XXX

L5 NOT USED

3" = 1'-0" | XXX-XXX

L13 RESTROOM COVE BASE



N.T.S. | STANDARD RESTROOM DETAIL THROUGHOUT

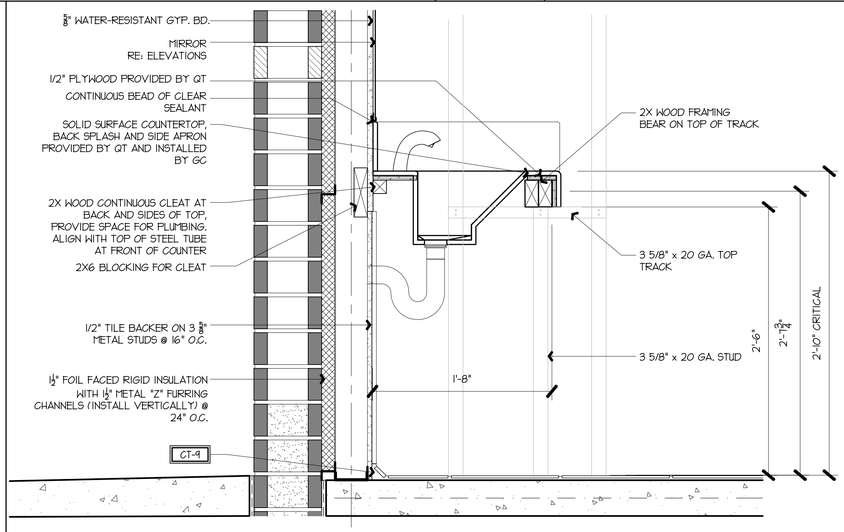
E1 NOT USED

3" = 1'-0" | XXX-XXX

E5 NOT USED

3" = 1'-0" | XXX-XXX

E11 RESTROOM LAVATORY

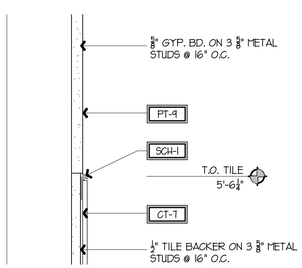


3" = 1'-0" | A1-A101

A1 NOT USED

3" = 1'-0" | XXX-XXX

A4 TRANSITION DETAIL

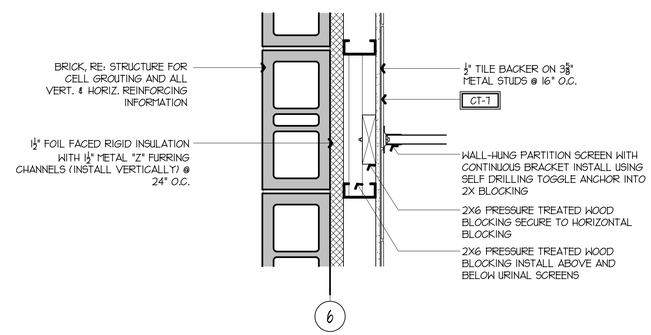


3" = 1'-0" | A7, A10, A13-A410, A12-A411, A1-A412

A7 NOT USED

3" = 1'-0" | XXX-XXX

A10 URINAL SCREEN DETAIL



1½" = 1'-0" | A1-A101

STATE OF MISSOURI
DANIEL J. LICKEL
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SIGNATURE DATE: 11/25/2024

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DATE	11-01-2024

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SHEET TITLE:
RESTROOM DETAILS

SHEET NUMBER:
A560

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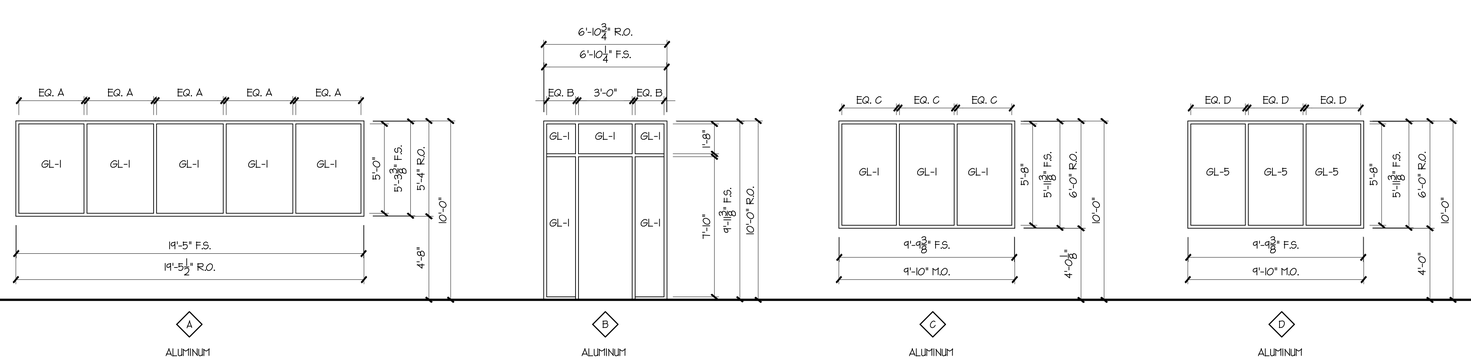
Development Services Department
Lee's Summit, Missouri
03/10/2025



K1 WINDOW FRAME TYPES

3/4" = 1'-0" — G1-A601

WINDOW NO.	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL
A	A	ALUMINUM	ANODIZED ALUMINUM	E6-A510	F1-A501	A6-A510
B	B	ALUMINUM	ANODIZED ALUMINUM	A8-A550	A1, A8, F1-A501	A1-A512
C	C	ALUMINUM	ANODIZED ALUMINUM	E1-A510	F13-A501, A9-A502	A1-A510
D	D	ALUMINUM	ANODIZED ALUMINUM	E1-A510	F13-A501, A9-A502	A1-A510

NOTES: ALL FRAMES PROVIDED BY QUIKTRIP AND ASSEMBLED AND INSTALLED BY CONTRACTOR.
GLAZING PROVIDED BY AND INSTALLED BY CONTRACTOR.

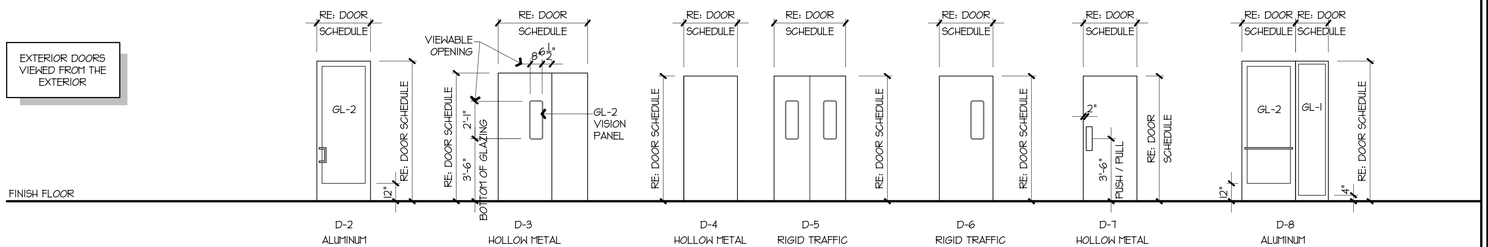
G1 WINDOW SCHEDULE

A1-A101

DOOR NO.	DOOR TYPE	DOOR SIZE	DOOR FINISH	FRAME TYPE	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	NOTES
1/100	D-2	3'-0" x 8'-0" x 1 3/4"	ANODIZED ALUMINUM	B	ANODIZED ALUMINUM	D5-A513 SIM.	D5-A513	A5-A513	1
2/100	D-8	(1) 3'-0" x 8'-0" x 1 3/4" (1) 2'-0" x 8'-0" x 1 3/4"	ANODIZED ALUMINUM	E	ANODIZED ALUMINUM	D5-A513 SIM.	D5-A513	A5-A513	1
3/100	D-4	3'-0" x 7'-0" x 1 3/4"	LAMINATE PAINT	F-2	PAINT	--------	--------	A9-A513	11,15,16
5/100	D-7	3'-0" x 7'-0" x 1 3/4"	LAMINATE PAINT	F-1	PAINT	A9-A530	A9-A530	--------	4,15,16
6/100	D-7	2'-4" x 7'-0" x 1 3/4"	LAMINATE PAINT	F-1	PAINT	A9-A530	A9-A530	--------	4,15,16
1/102	D-5	PROVIDED BY QUIKTRIP	FACTORY	F-4	FACTORY	F5-A530 SIM.	F5, F9-A530	--------	1
1/103	D-5	PROVIDED BY QUIKTRIP	FACTORY	F-4	FACTORY	FACTORY	FACTORY	--------	1
1/104	D-3	(1) 3'-0" x 7'-2" x 1 3/4" (1) 2'-0" x 7'-2" x 1 3/4"	PAINT	F-1	PAINT	G13-A513	D10, D14-A513	A13-A513	8,10,11,15
2/104	D-7	3'-0" x 7'-0" x 1 3/4"	LAMINATE PAINT	F-1	PAINT	A5-A530	A5-A530	--------	2,4,15,16
1/105	D-5	PROVIDED BY QUIKTRIP	FACTORY	F-4	FACTORY	FACTORY	FACTORY	--------	1
2/105	D-6	PROVIDED BY QUIKTRIP	FACTORY	F-5	FACTORY	FACTORY	FACTORY	--------	1
1/106	D-7	3'-0" x 7'-0" x 1 3/4"	LAMINATE PAINT	F-1	PAINT	A13-A530	A13-A530 L9-A530	--------	4,15,16

A1 DOOR SCHEDULE

A1-A101



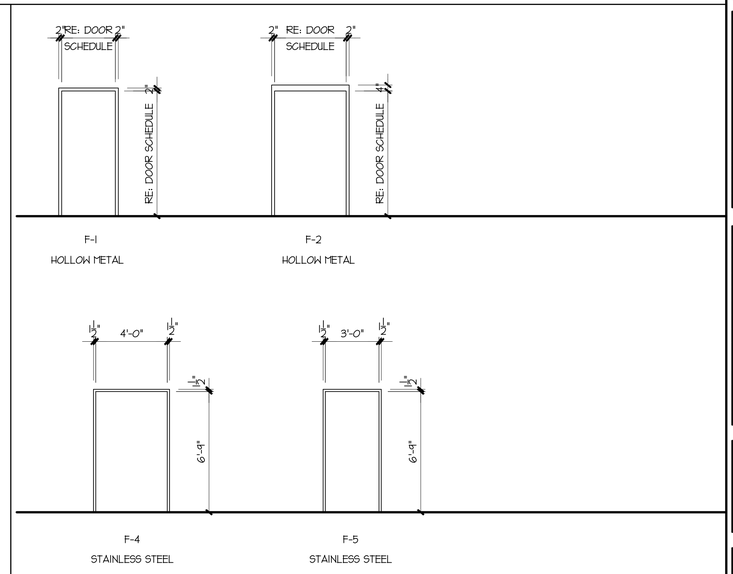
G6 DOOR TYPES

3/4" = 1'-0" — A1-A601

DOOR NO.	DOOR TYPE	DOOR SIZE	DOOR FINISH	FRAME TYPE	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	NOTES
1/101	D-7	3'-0" x 7'-0" x 1 3/4"	LAMINATE PAINT	F-1	PAINT	A13-A530	A13-A530 F1-A502	--------	4,15,16
1/110	D-4	3'-6" x 7'-0" x 1 3/4"	LAMINATE PAINT	F-2	PAINT	--------	--------	A9-A513	8,11,15,16

NOTES LEGEND

1. DOOR, FRAME AND HARDWARE FURNISHED BY QUIKTRIP. DOOR, FRAME AND HARDWARE INSTALLED BY CONTRACTOR.
2. INSTALL 12"x24" LOUVER AT 12" AFF
3. REFERENCE DOOR HARDWARE SPEC SECTION 081100 FOR CONTRACTOR PROVIDED ITEMS
4. ALL INTERIOR DOOR FRAMES TO USE EWA ANCHORS (DIMPLED FRAMES) RE: SPEC SECTION 081113
5. NOT USED
6. NOT USED
7. NOT USED
8. SET DOOR AND CLOSER TO 140 DEGREE SWING
9. NOT USED
10. RE: ELECTRICAL E103 FOR AIR DOOR SWITCH WIRING
11. THERMAL RATED
12. NOT USED
13. NOT USED
14. NOT USED
15. DOOR AND FRAME FURNISHED AND INSTALLED BY CONTRACTOR.
16. INSTALL LAMINATE DOOR COVERING. RE: SPEC SECTION 081100



A12 DOOR FRAME TYPES

3/4" = 1'-0" — A1-A601

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016881
ARCHITECT
SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
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QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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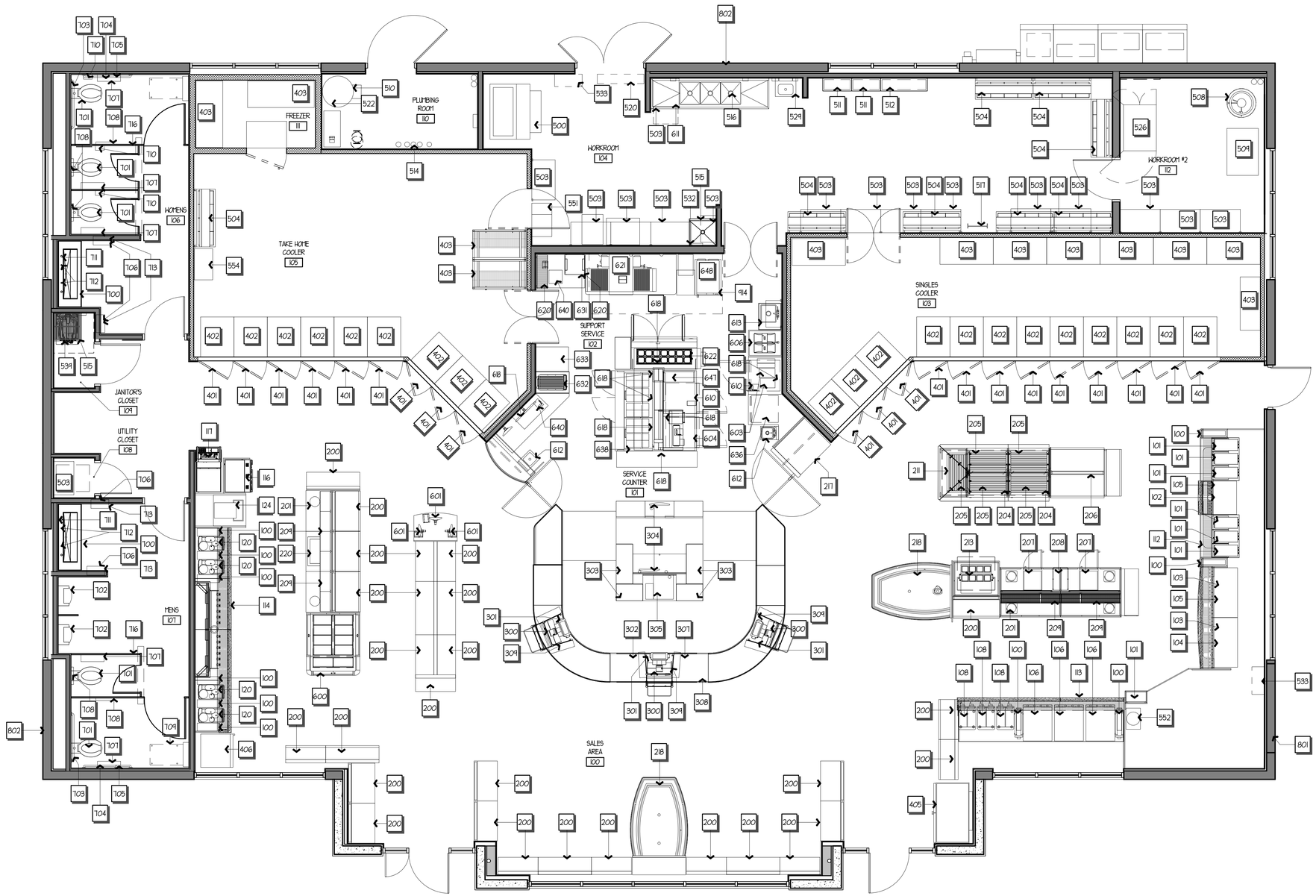
PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
DOOR & WINDOW SCHEDULES

SHEET NUMBER:
A601



GENERAL NOTE: REFER TO SHEET A611 FOR EQUIPMENT SCHEDULE AND NOTES.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016944
ARCHITECT

SIGNATURE DATE: 11/25/2024

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
EQUIPMENT PLAN

SHEET NUMBER:
A610

A1
1/4" = 1'-0"

EQUIPMENT PLAN

NORTH

NO.	DESCRIPTION	FURNISHED	INSTALLED	FINAL HOOK-UP	FINAL START-UP	NOTES
100	CUP DISPENSER	QUIKTRIP	G.C.	G.C.	--------	3
101	BREWED TEA DISPENSER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
102	FOUNTAIN MACHINE - 8 HEAD	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
103	FOUNTAIN MACHINE - 12 HEAD	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
104	CUBED ICE MAKER - 1000LB	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
105	CRUSHED ICE MAKER - 2000LB	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
106	FREEZONI MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
107	NOT USED					
108	SMOOTHIE MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
110	CAPPUCCINO MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
111	LEMONADE BUBBLER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
112	FOUNTAIN WALL	QUIKTRIP	G.C.	G.C.	QUIKTRIP	1, 3
113	FROZEN BAR	QUIKTRIP	G.C.	G.C.	QUIKTRIP	1, 3
114	COFFEE BAR	QUIKTRIP	G.C.	G.C.	QUIKTRIP	1, 3
115	TEA WALL	QUIKTRIP	G.C.	G.C.	QUIKTRIP	1, 3
116	LOTTO TICKET READER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
117	ATM	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
120	BEAN TO CUP COFFEE MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
124	COFFEE BAR ICE MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
200	SALES FLOOR SHELVING	QUIKTRIP	QUIKTRIP	QUIKTRIP	--------	3
201	LID BAR	QUIKTRIP	G.C.	G.C.	--------	1, 3
202	FLOOR COOLER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
203	HOTZI WARMER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
204	BUN WARMER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
205	ROLLER GRILL	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
206	CONDIMENT RACK	QUIKTRIP	G.C.	G.C.	--------	3
207	MICROWAVE - SELF	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
208	CHILI & CHEESE MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
209	LID RACK	QUIKTRIP	G.C.	G.C.	--------	3
210	GRILL BAR	QUIKTRIP	G.C.	G.C.	--------	1, 3
211	SNEEZE GUARD	QUIKTRIP	G.C.	G.C.	--------	3
212	METAL CHASES	QUIKTRIP	G.C.	G.C.	--------	3
213	COLD BAR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
217	5 TIER HOT DISPLAY	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
220	COLD WELL	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
300	POS	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
301	INTERCOM MICROPHONE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
302	EMERGENCY GASOLINE SHUT-OFF SWITCH	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
303	CIGARETTE CABINET	QUIKTRIP	G.C.	G.C.	--------	3
304	COMPUTER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
305	LOTTO MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
306	CASH CONTROLLER SAFE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
307	BILL READER SAFE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
308	CHECKSTAND	QUIKTRIP	G.C.	QUIKTRIP	QUIKTRIP	1, 3
309	SHROUD	QUIKTRIP	G.C.	QUIKTRIP	QUIKTRIP	3
310	PRINTER / COPIER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
311	TOBACCO COOLER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
312	LOW VOLTAGE UTILITY BOX	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
400	2 DOOR FREEZER UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
401	COOLER DOOR	QUIKTRIP	G.C.	G.C.	G.C.	3
402	SHELVING - COOLER SALES	QUIKTRIP	G.C.	QUIKTRIP	--------	3
403	SHELVING - COOLER BACK STOCK	QUIKTRIP	G.C.	G.C.	--------	3

NO.	DESCRIPTION	FURNISHED	INSTALLED	FINAL HOOK-UP	FINAL START-UP	NOTES
404	SHELVING - FREEZER BACK STOCK	QUIKTRIP	G.C.	G.C.	--------	3
405	ICE MERCHANDISER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
406	NOVELTY ICE CREAM FREEZER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
409	RED BULL COOLER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
410	2-DOOR FREEZER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
500	ICE BAGGER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
501	SHELVING - BACKROOM	QUIKTRIP	G.C.	G.C.	--------	3
502	SHELVING - OPEN STOCK	QUIKTRIP	G.C.	G.C.	--------	3
503	SHELVING - OVERHEAD	QUIKTRIP	G.C.	G.C.	--------	3
504	BAG-N-BOX RACK	QUIKTRIP	G.C.	G.C.	--------	3, 4
505	BAG-N-BOX STORAGE RACK	QUIKTRIP	G.C.	G.C.	--------	3, 4
506	BNB PUMP	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
507	BNB AIR COMPRESSOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
508	CO2 TANK	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
509	MULTIPLEX	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
510	HOT WATER HEATER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
511	ELECTRICAL PANELS	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
512	LOW VOLTAGE CABINET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
513	UPS	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
514	WATER FILTRATION SYSTEM	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
515	JANITOR'S SINK WITH FAUCET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
516	3-COMPARTMENT SINK WITH FAUCET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
517	ROOF LADDER	QUIKTRIP	QUIKTRIP	G.C.	--------	3
518	WATER SOFTENER - OPTIONAL	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
519	BOOSTER PUMP - OPTIONAL	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
520	AIR DOOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
521	RE-CIRCULATION PUMP	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
522	EXPANSION TANK	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
523	FLOOR SINK	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
524	FLOOR DRAIN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
525	BACKFLOW PREVENTER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
526	SECURITY CABINET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
527	HEAT TRACE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
528	ROOF DRAIN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
529	ADA HANDSINK WITH FAUCET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
530	SMALL FLOOR SINK	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
531	ELECTRIC HEATER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
532	MOP/BROOM HOLDER	QUIKTRIP	G.C.	G.C.	--------	3
533	LARGE BUG LIGHT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
534	ICE MAKER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
535	METAL SHELF	QUIKTRIP	G.C.	G.C.	--------	3
536	METAL SHELF	QUIKTRIP	G.C.	G.C.	--------	3
538	BIKE RACK	G.C.	G.C.	G.C.	G.C.	3
539	FLOOR SCRUBBER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
540	CO2 EXHAUST SWITCH	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
544	AIR DOOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
545	AIR DOOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
551	WOW GLYCOL CHILLER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
552	NITROGEN GENERATOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
553	NOT USED					
554	WOW AUTOCLEAN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
555	NITROGEN AIR COMPRESSOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				

NO.	DESCRIPTION	FURNISHED	INSTALLED	FINAL HOOK-UP	FINAL START-UP	NOTES
600	PASTRY CASE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
601	CUSTOM ORDER MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
602	PARTICULATE DISPENSER	QUIKTRIP	G.C.	G.C.	--------	3
603	BLENDER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
604	UNDER COUNTER FREEZER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
605	ESPRESSO MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
606	ICE CREAM MACHINE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
607	MICROWAVE - FULL	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
608	NOT USED					
609	NOT USED					
610	UNDER COUNTER REFRIGERATOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
611	DISHWASHER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
612	HANDSINK WITH FAUCET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
613	DUMP SINK	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
614	DRYING RACK	QUIKTRIP	G.C.	G.C.	--------	3
615	TRASH RECEPTACLE	QUIKTRIP	G.C.	G.C.	--------	3
616	STAINLESS STEEL WORKTABLE	QUIKTRIP	G.C.	G.C.	--------	3
617	MIXER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
618	LED SCREEN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
619	EXPRESSO FILTER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
620	WIRE RACK	QUIKTRIP	G.C.	G.C.	--------	3
621	IMPINGER OVEN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
622	COLD PREP TABLE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
623	BUTTER WARMER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
624	PRETZEL BOX	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
625	HOT TOPPER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
626	CONDIMENT RACK	QUIKTRIP	G.C.	G.C.	--------	3
627	ORDER MONITOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
630	PRINTER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
631	PIZZA BOX CABINET	QUIKTRIP	G.C.	G.C.	QUIKTRIP	1, 3
632	SUB OVEN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
633	BREAD BOX	QUIKTRIP	G.C.	G.C.	QUIKTRIP	1, 3
635	HOT HOLD	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
636	PIZZA WARMER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
637	REACH-IN COOLER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
638	SUB COLD BAR (PREP TABLE)	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
639	KMS SCREEN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
640	STICKER PRINTER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
641	9' FLOOR COOLER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
641C	9' FLOOR COOLER CONDENSING UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
642	DATA PRINTER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
643	HEATED WELL	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
644	TORTILLA STEAMER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
645	RETHERMALIZER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
646	HEAT LAMP	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
647	STEAMER DRAWER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
648	COMBI OVEN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
649	WALL MOUNTED TRAY RACK	QUIKTRIP	G.C.	G.C.	QUIKTRIP	3
700	LAVATORY WITH FAUCET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
701	WALL MOUNTED WATER CLOSET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
702	WALL MOUNTED URINAL	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
703	36" HORIZONTAL GRAB BAR	QUIKTRIP	G.C.	G.C.	--------	3

NO.	DESCRIPTION	FURNISHED	INSTALLED	FINAL HOOK-UP	FINAL START-UP	NOTES
104	42" HORIZONTAL GRAB BAR	QUIKTRIP	G.C.	G.C.	--------	3
105	18" VERTICAL GRAB BAR	QUIKTRIP	G.C.	G.C.	--------	3
106	PAPER TOWEL DISPENSER	QUIKTRIP	G.C.	G.C.	--------	3
107	TOILET PAPER DISPENSER	QUIKTRIP	G.C.	G.C.	--------	3
108	SEAT COVER DISPENSER	QUIKTRIP	G.C.	G.C.	--------	3
109	BABY CHANGING STATION	QUIKTRIP	G.C.	G.C.	--------	3
110	FEMININE NAPKIN DISPOSAL	QUIKTRIP	G.C.	G.C.	--------	3
111	MIRROR	G.C.	G.C.	G.C.	--------	3
112	SOAP DISPENSER	QUIKTRIP	G.C.	G.C.	--------	3
113	TRASH CAN LINER	QUIKTRIP	G.C.	G.C.	--------	3
114	NOT USED	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
115	TRASH RECEPTACLE	QUIKTRIP	G.C.	G.C.	--------	3
116	RESTROOM PARTITION SYSTEM	QUIKTRIP	G.C.	--------	--------	3
800	POWER WASHER	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
801	CO2 CONNECTION BOX	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
802	POWER WASHER CONNECTION BOX	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
803	HOSE BIB	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
804	GREASE INTERCEPTOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
805	EMERGENCY SHUT-OFF SWITCH	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
806	BALANCE VALVE	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
807	ICE VENDING KIOSK	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
808	WALL FAUCET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
809	POT FILLER FAUCET	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
900	ROOF HATCH	QUIKTRIP	G.C.	G.C.	--------	3
901	VENT THRU ROOF	QUIKTRIP	G.C.	G.C.	--------	3
902	CANDYCANE PENETRATION	G.C.	G.C.	G.C.	--------	3
903	ROOF TOP UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
904	NOT USED					
905	ICE MERCHANDISER CONDENSER UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
906	CUBED ICE MAKER CONDENSER UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
907	ICE MAKER CONDENSER UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
908	WALK-IN FREEZER EVAPORATOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
909	TAKE HOME COOLER EVAPORATOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
910	SINGLES COOLER EVAPORATOR	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
911	CRUSHED ICE MAKER CONDENSER UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
912	NOT USED					
913	EXHAUST FAN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
914	EXHAUST HOOD	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
915	EXHAUST HOOD FAN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
916	TRANSFER FAN	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
917	ICE VENDING CONDENSING UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				
918	WALK-IN FREEZER CONDENSING UNIT	RE: PLUMBING, MECHANICAL AND/OR ELECTRICAL				

EQUIPMENT SCHEDULE NOTES:

DEFINITIONS:
- FURNISHED: SUPPLY TO THE JOBSITE
- INSTALLED: MOUNT AND CONNECT, COMPLETE AND READY FOR OPERATION
- FINAL HOOK-UP: MAKE FINAL CONNECTION
- FINAL START-UP: TURN POWER ON

NOTES:
1. CONTRACTOR TO PROVIDE PLUMBING AND/OR ELECTRICAL UTILITIES. RE: ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS.
2. EQUIPMENT CONTROLLED OR MONITORED BY THE ENERGY MANAGEMENT SYSTEM. SEE INSTALLATION DRAWINGS PROVIDED BY QUIKTRIP.
3. SEE QUIKTRIP REPRESENTATIVE FOR SPECIFICS.
4. ACCESSORIES USED FOR CONNECTION OF BAG-N-BOX TO FOUNTAIN SUPPLIED BY QUIKTRIP. SEE QUIKTRIP REPRESENTATIVE FOR PARTS LIST.
5. CONTRACTOR TO PROVIDE REFRIGERATION HOOK-UP.

A1 EQUIPMENT SCHEDULE

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016974
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE

16200 Midland Drive
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(P) 913.389.7888

QuikTrip No. 0183RGC

1001 SW BLUE PARKWAY
LEES SUMMIT, MISSOURI

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SHEET TITLE: EQUIPMENT SCHEDULE

SHEET NUMBER: A611

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Development Services Department
Lee's Summit, Missouri
03/10/2025

GENERAL NOTES:

INSTALL ALL TILE UNIFORM AND LEVEL WITH NO SHARP EDGES.

ALL TILE EDGING PROVIDED BY QUIKTRIP, INSTALLED BY CONTRACTOR.

CONCEALED CONNECTORS FOR PROFILES ARE V/RO100.

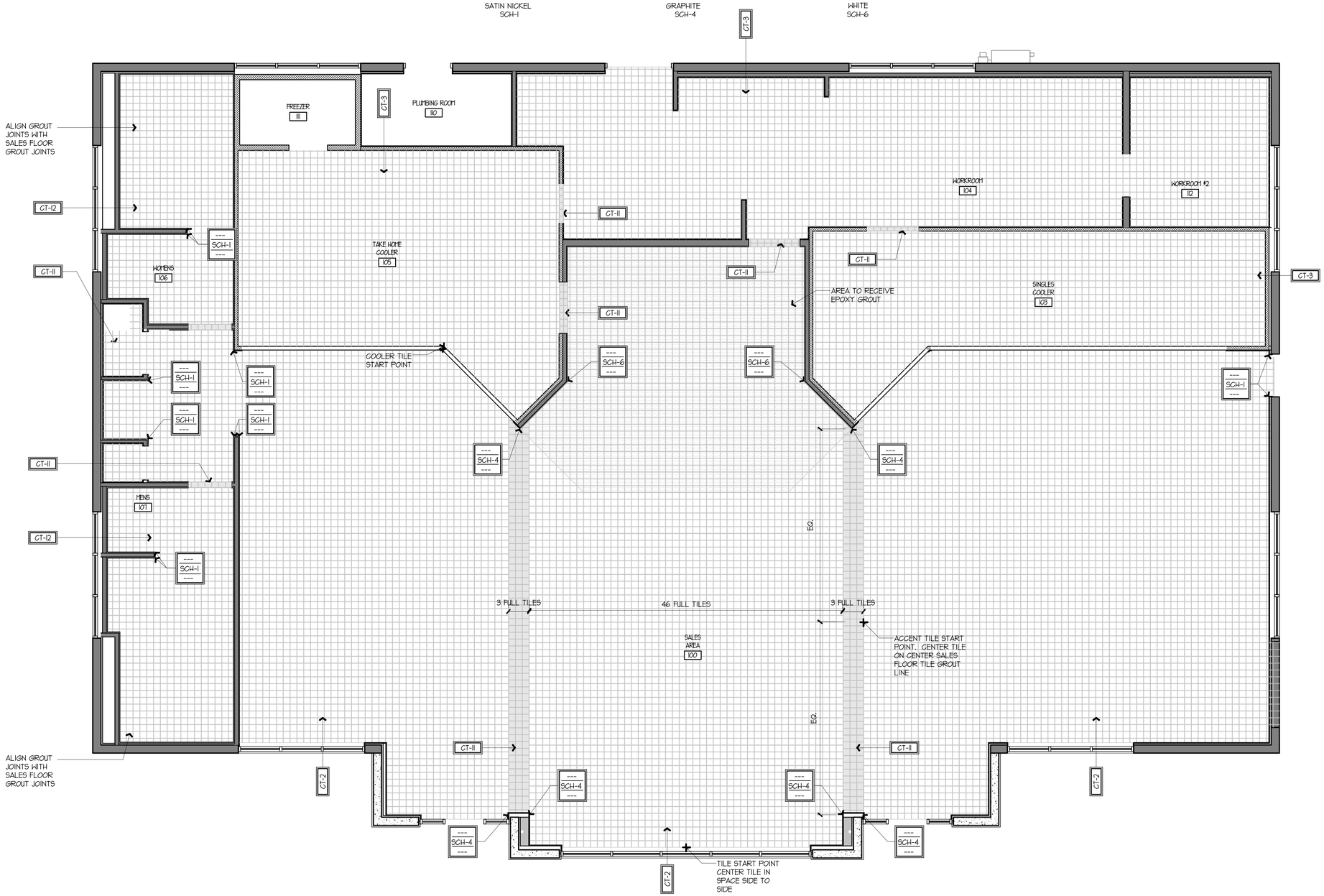
RONDEC RO100ATI
SCHLUTER PROFILE
SATIN NICKEL
SCH-1

RONDEC RO100AGR
SCHLUTER PROFILE
GRAPHITE
SCH-4

RONDEC RO100AGR
SCHLUTER PROFILE
WHITE
SCH-6

LEGEND

- X-X / X-X / X-X — TOP CORNER CONDITION / VERTICAL CONDITION / BOTTOM CORNER CONDITION
- X-X / X-X — TOP HORIZONTAL CONDITION / BOTTOM HORIZONTAL CONDITION



A1
1/4" = 1'-0"

FINISH PLAN

NORTH

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016911
ARCHITECT

SIGNATURE DATE: 11/25/2024

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ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
FLOOR FINISH PLAN

SHEET NUMBER:
A620

RM. NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	HEIGHT	NOTES
				BACK	RIGHT	FRONT	LEFT			
100	SALES AREA	RE: A1-A620	RB-1	VARIES	VARIES	VARIES	VARIES	ACT-1	VARIES	
101	SERVICE COUNTER	RE: A1-A620	RB-1	--------	CT-10	--------	CT-10	GYPSUM BOARD PAINTED	9'-4"	
102	SUPPORT SERVICE	RE: A1-A620	CT-13	CT-10	CT-10	--------	CT-10	ACT-1	9'-6"	
103	SINGLES COOLER	RE: A1-A620	NONE	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	9'-5"	
104	WORKROOM	RE: A1-A620	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	11'-0"	
105	TAKE HOME COOLER	RE: A1-A620	NONE	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	9'-5"	
106	WOMENS	RE: A1-A620	CT-9	CT-6,CT-7,CT-8,PT-9	CT-6,CT-7,CT-8,PT-9	CT-6,CT-7,CT-8,PT-9	CT-6,CT-7,CT-8,PT-9	GYPSUM BOARD PAINTED	8'-0"	
107	MENS	RE: A1-A620	CT-9	CT-6,CT-7,CT-8,PT-9	CT-6,CT-7,CT-8,PT-9	CT-6,CT-7,CT-8,PT-9	CT-6,CT-7,CT-8,PT-9	GYPSUM BOARD PAINTED	8'-0"	
108	UTILITY CLOSET	RE: A1-A620	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	10'-0"	
109	JANITOR'S CLOSET	RE: A1-A620	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	10'-0"	
110	PLUMBING ROOM	RE: A1-A620	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	OPEN TO STRUCTURE		
111	FREEZER	RE: A1-A620	NONE	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	9'-5"	
112	WORKROOM #2	RE: A1-A620	RB-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	11'-0"	

N1 ROOM FINISH SCHEDULE

EXTERIOR INSULATION FINISH SYSTEM

NO.	BRAND	SERIES	COLOR	COLOR NO.	LOCATION	PROVIDED BY
EIFS	STO	STO THERM ci CLASSIC	CUSTOM	NAIT-0031	EXTERIOR	G.C.

TILE

NO.	BRAND	SERIES	SIZE	COLOR	COLOR NO.	JOINT WIDTH	GROUT / COLOR	LOCATION	PROVIDED BY
CT-1	NOT USED								
CT-2	DALTILE	QUARRY TILE SERIES	6" X 6"	BLAZE FLASH	Q41	1/4"	ULTRACOLOR PLUS FA - BLACK #10 KERAPOXY IEG GQ - BLACK #10	SALES AREA FLOOR TILE SERVICE AREAS FLOOR TILE	QT
CT-3	DALTILE	QUARRY TILE SERIES	6" X 6"	ARID GRAY	Q42	1/4"	ULTRACOLOR PLUS FA BLACK #10	WORKROOM AND COOLER FLOOR TILE	QT
CT-4	DALTILE	VOLUME 1.0	12" X 24"	AMPLIFY BLACK	VL10	3/16"	ULTRACOLOR PLUS FA BLACK #10	SALES AREA WALL TILE	QT
CT-5	DALTILE	CHORD	12" X 24"	CANON GREY	CH22	3/16"	ULTRACOLOR PLUS FA SAHARA BEIGE	SALES AREA WALL TILE	QT
CT-6	DALTILE	CHORD	24" X 48"	CANON GREY	CH22	3/16"	ULTRACOLOR PLUS FA GRAY #4	RESTROOM WAINSCOT WALL TILE	QT
CT-7	DALTILE	CHORD	12" X 24"	CANON GREY	CH22	3/16"	ULTRACOLOR PLUS FA GRAY #4	RESTROOM UPPER WALL TILE	QT
CT-8	DALTILE	VOLUME 1.0	12" X 24" (CUT IN HALF)	AMPLIFY BLACK	VL10	3/16"	ULTRACOLOR PLUS FA GRAY #4	RESTROOM ACCENT TILE	QT
CT-9	DALTILE	VOLUME 1.0	12" X 24" (CUT DOWN)	AMPLIFY BLACK	VL10	3/16"	ULTRACOLOR PLUS FA BLACK #10	RESTROOM BASE TILE (CUT AS REQUIRED TO MATCH DETAIL)	QT
CT-10	DALTILE	LINEAR	4" X 16"	ARCTIC WHITE	0190	1/16"	KERACOLOR U WHITE #25	SERVICE AREA WALL TILE	QT
CT-11	DALTILE	QUARRY TILE SERIES	6" X 6"	BLACK	QT4	1/4"	ULTRACOLOR PLUS FA BLACK #10	SALES AREA FLOOR ACCENT TILE RESTROOM THRESHOLD ACCENT	QT
CT-12	DALTILE	QUARRY TILE SERIES	6" X 6"	BLAZE FLASH	Q41	1/4"	ULTRACOLOR PLUS FA BLACK #10	RESTROOM FLOOR TILE	QT
CT-13	DALTILE	MODERN DIMS	6" X 6" COVE BASE	GLOSSY ARCTIC WHITE	0190 S3619 TIPI	UNIFORM	KERACOLOR U WHITE #25	SERVICE AREA COVE BASE TILE	QT
CT-14	DALTILE	CONTINENTAL SLATE	6" X 6"	ASIAN BLACK	CS53	UNIFORM	ULTRACOLOR PLUS FA BLACK #10	FUEL ISLAND TILE	QT

PAINT

NO.	BRAND	COLOR	FINISH	LOCATION	PROVIDED BY
PT-1	SHERWIN WILLIAMS	SW-7674 PEPPERCORN	PROMAR 200 EGGSHELL	SOFFITS AND SALES AREA WALLS	G.C.
PT-1 PRIMER	SHERWIN WILLIAMS	WHITE	PROMAR 200 ZERO VOC PRIMER B28W02600	SOFFITS AND SALES AREA WALLS	G.C.
PT-2	SHERWIN WILLIAMS	SW-7005 PURE WHITE	FLAT	MEN'S AND WOMEN'S CEILINGS	G.C.
PT-3	SHERWIN WILLIAMS	SW-7005 PURE WHITE	SEMI-GLOSS	SERVICE COUNTER CEILING	G.C.
PT-4	PPG-BREAK-THROUGH	SW-7048 URBANE BRONZE	V51-440 (SATIN)	RESTROOM, JANITOR'S CLOSET, AND UTILITY ROOM DOORS & FRAMES INTERIOR SIDE OF WORKROOM DOOR & FRAME, AND WORKROOM POCKET DOORS	G.C.
PT-4 (ALT)	SHERWIN WILLIAMS	SW-7048 URBANE BRONZE	PRO INDUSTRIAL MULTI-SURFACE ACRYLIC B66W1151 (SATIN)	ALTERNATE TO STANDARD PT-4 ONLY WHEN UNAVAILABLE	G.C.
PT-4 PRIMER	SPECTRUM	WHITE - TINTABLE	RHINO-GRIP PRIMER SPC8000 NON-FLAT	RESTROOM, JANITOR'S CLOSET, AND UTILITY ROOM DOORS & FRAMES INTERIOR SIDE OF WORKROOM DOOR & FRAME, AND WORKROOM POCKET DOORS	G.C.
PT-5	SHERWIN WILLIAMS	SW-B54T2404 QT BROWN	INDUSTRIAL ENAMEL	MECHANICAL SCREEN FRAMING, EXTERIOR SIDE OF WORKROOM DOOR & FRAME, AND BUILDING PERIMETER BOLLARDS	G.C.
PT-6	SHERWIN WILLIAMS	COLOR TO MATCH FRP	SEMI-GLOSS	PLUMBING ROOM	G.C.
PT-7	SHERWIN WILLIAMS	SAFETY YELLOW	INDUSTRIAL ENAMEL	ALL NON-BUILDING PERIMETER BOLLARDS	G.C.
PT-9	SHERWIN WILLIAMS	SW-7044 AMAZING GRAY	PROMAR 200 EGGSHELL	RESTROOM WALLS ABOVE ACCENT BAND	G.C.
PT-10	SHERWIN WILLIAMS	SW-6993 BLACK OF NIGHT	SUPER PAINT - LOW LUSTER (EXTERIOR ACRYLIC LATEX)	EXTERIOR CMU - ALTERNATE EXTERIOR FINISH	G.C.
PT-10 PRIMER	LOXON	251-GS	ACRYLIC BLOCK SURFACER	EXTERIOR CMU - ALTERNATE EXTERIOR FINISH	G.C.
PT-11	SHERWIN WILLIAMS	B53W02151 EXTRA WHITE	PRO INDUSTRIAL WATERBASED ALKYD URETHANE ENAMEL - SEMI-GLOSS	ROOF HATCH	G.C.

A1 FINISH SCHEDULE

WALL BASE

NO.	BRAND	SERIES	SIZE	THICKNESS	TYPE	COLOR	LOCATION	PROVIDED BY
RB-1	ROPPE	700 SERIES	6" TALL	0.125"	VINYL COVE WITH TOE	#193 BLACK BROWN	ALL ROOMS EXCEPT RESTROOMS & COOLERS	G.C.

FIBERGLASS REINFORCED PANELS

NO.	BRAND	SERIES	SIZE	COLOR	COLOR NO.	FINISH	LOCATION	PROVIDED BY
FRP-1	CRANE COMPOSITES	GLASBORD FRP	48" X 144"	PEARL GRAY	48	EMBOSSED WITH SURFASEAL	WORKROOM, PLUMBING ROOM, JANITOR'S CLOSET, UTILITY CLOSET & SALES AREA	G.C.

CEILING TILE

NO.	BRAND	SERIES	SIZE	COLOR	EDGE	LOCATION	PROVIDED BY
ACT-1	CERTAINTEED CEILING (BY BPB)	VINYLROCK X (1140-CRF-1)	24" X 48" X 1/2"	WHITE	SQUARE	SALES, SUPPORT SERVICE, WORKROOM, UTILITY CLOSET & JANITOR'S CLOSET	G.C.

BRAKE METAL

NO.	COLOR	PROVIDED BY
BM-1	ANODIZED ALUMINUM	GC
BM-2	BLACK	GC

STAINLESS STEEL PANELS

NO.	BRAND	LOCATION	PROVIDED BY
SS-1	STAINLESS STEEL PANEL	SUPPORT SERVICE WALL	QT
SS-2	STAINLESS STEEL PANEL	JANITOR'S CLOSET	G.C.

SEALANT COLORS

NO.	COLOR	PRODUCT	MANUFACTURER	DESCRIPTION	TYPE	GRADE	CLASS	LOCATION	PROVIDED BY
S-1	WHITE	SANITARY SCS1700	GE ADVANCED MATERIALS	SINGLE COMPONENT, NONSAG, NEUTRAL-CURING SILICONE	S	NS	25	BRICK, EIFS, AND STOREFRONT TO METAL SOFFIT THRU WALL SCUPPERS TO ROOF MEMBRANE PERIMETER OF GYP. BD. CEILINGS PLUMBING FIXTURES STAINLESS FRAMES TO WHITE TILE	G.C.
S-2	GRAY	786 SILICONE	DOW CORNING	MILDEW RESISTANT, SINGLE COMPONENT, ACID-CURING SILICONE	S	NS	25	PREFINISHED METAL CORNICE TO BRICK AND ROOF MEMBRANE PREFINISHED METAL CAP FLASHING TO BRICK STOREFRONT AND HOLLOW METAL FRAMES TO BRICK THRU WALL SCUPPERS AND MISC. METALS TO BRICK BRAKE METAL, PAINTED GYP. BD. TO STOREFRONT HOLLOW METAL AND STAINLESS FRAMES TO FRP SINKS TO FRP TILE, HOLLOW METAL FRAMES, AND STOREFRONT TO TILE MILLWORK TO COUNTERTOPS	G.C.
S-3	DARK GRAY	SILPRUF SCS2010	GE ADVANCED MATERIALS	SINGLE COMPONENT, NONSAG, NEUTRAL-CURING SILICONE	S	NS	50	BRICK, EIFS, AND STOREFRONT TO PAVEMENT VERTICAL BRICK TO BRICK AND BRICK TO EIFS SURFACES	G.C.
S-4	BLACK	795 SILICONE	DOW CORNING	SINGLE COMPONENT, NEUTRAL-CURING SILICONE	S	NS		STOREFRONT, COOLER DOOR, STAINLESS, AND HOLLOW METAL FRAMES TO TILE	G.C.
S-5	LIMESTONE	MASTERSEAL SL2	SIKA (BASF)	IMMERSIBLE MULTICOMPONENT, POURABLE, TRAFFIC GRADE, URETHANE JOINT SEALANT	M	P	25	PAVEMENT JOINTS	G.C.
S-6	CLEAR			BUTYL SEALANT				COOLER PANEL TOP AND BOTTOM CONNECTIONS	G.C.
S-7	BLACK SANDED #10	ULTRA PERFORMANCE COLOR SPECIFIC	COLORFAST	HYBRID ADHESIVE, STAIN AND MILDEW RESISTANT				PREFINISHED METAL CORNICE AND STOREFRONT TO EIFS HOLLOW METAL FRAME TO EIFS - PILASTER OPTION RED PANEL TO EIFS	G.C.
S-8	LIMESTONE	MASTERSEAL NP1	SIKA (BASF)	SINGLE COMPONENT, ELASTOMERIC POLYURETHANE	S	NS	35	BOLLARDS AND FUEL ISLANDS TO PAVEMENT	G.C.

SCHLUTER

NO.	BRAND	SERIES	FINISH	PROVIDED BY
SCH-1	SCHLUTER	RONDEC RO100ATI	SATIN NICKEL	QT
SCH-2	SCHLUTER	RONDEC IV/RO100ATI	SATIN NICKEL	QT
SCH-3	SCHLUTER	RONDEC EV/RO100ATI	SATIN NICKEL	QT
SCH-4	SCHLUTER	RONDEC RO100AGR	GRAPHITE	QT
SCH-5	SCHLUTER	RONDEC IV/RO100AGR	GRAPHITE	QT
SCH-6	SCHLUTER	RONDEC RO100AGR	WHITE	QT

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Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016911
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE

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Quik Trip No. 0183R

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FINISH SCHEDULE

SHEET NUMBER:
A621

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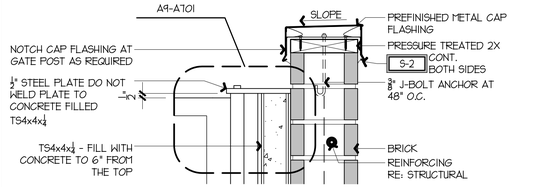
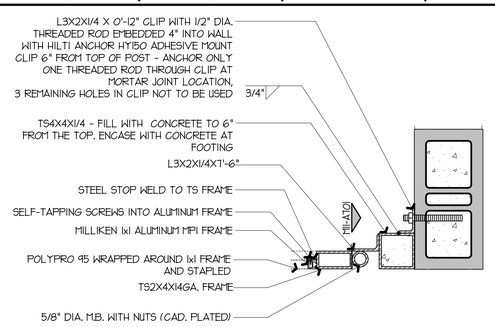
Lee's Summit, Missouri
03/10/2025



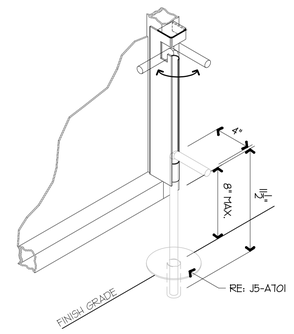
N1 FLASHING DETAIL

1½"=1'-0" | A1, G13-A701



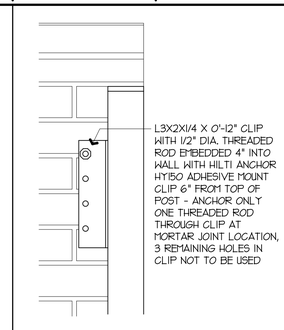
M5 GATE JAMB

1½" = 1'-0" | A1, A13, G13-A701



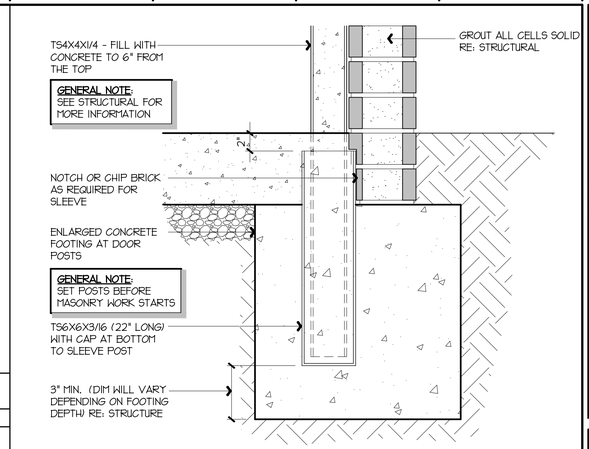
M9 DOOR HOLD OPEN DETAIL

1½" = 1'-0" | A13-A701



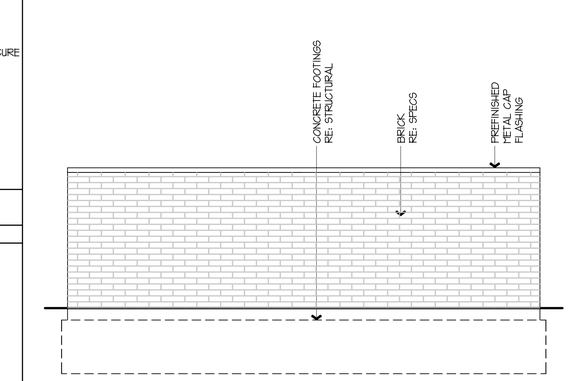
M11 ELEVATION

1½" = 1'-0" | M5-A701



L13 DOOR POST DETAIL

1½" = 1'-0" | A1-A701



J1 NOT USED

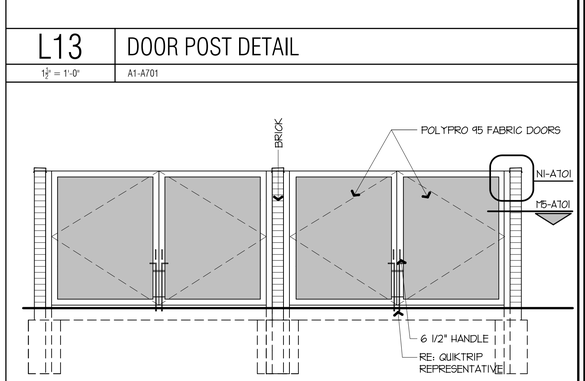
N.T.S. | XXX-XXXX

J5 DOOR HOLD OPEN DETAIL

1½" = 1'-0" | A13, M9-A701

G9 TRASH ENCLOSURE SIDE ELEVATION

¾" = 1'-0" | A13-A701



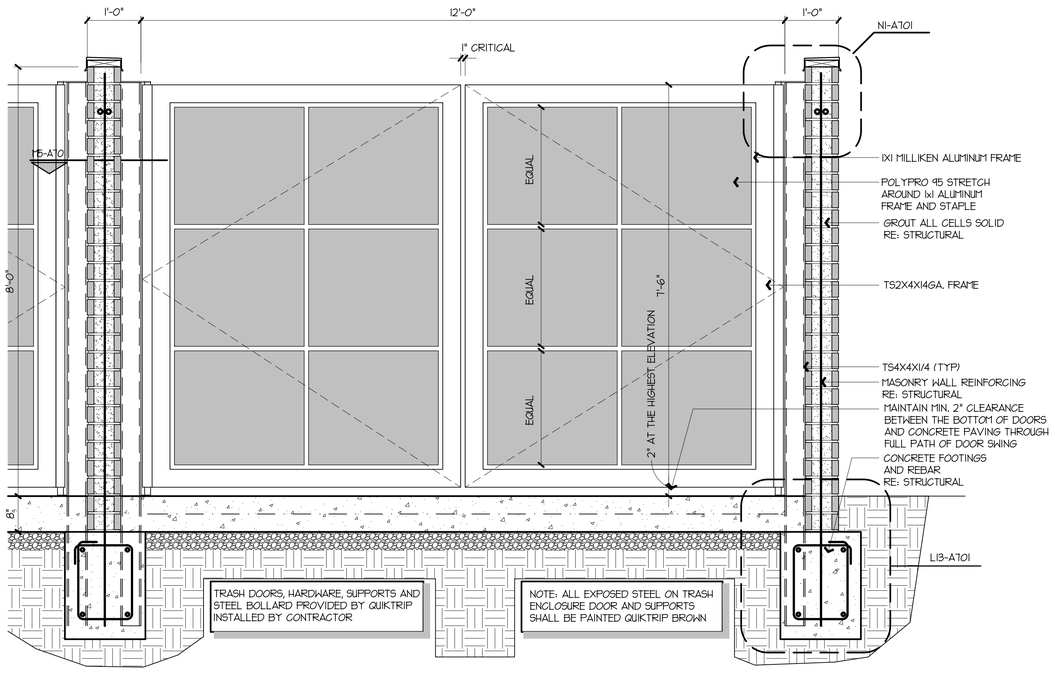
G13 TRASH ENCLOSURE FRONT ELEVATION

¾" = 1'-0" | A13-A701

NOTES:

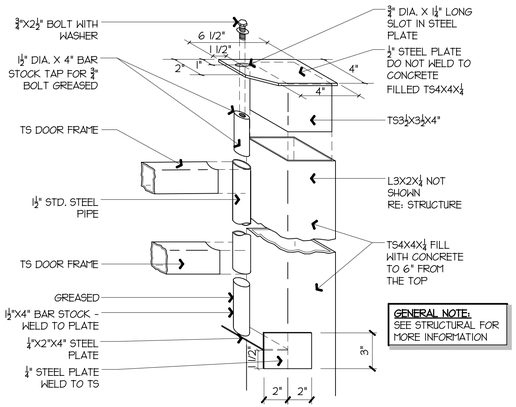
FLASHING FOR ROWLOCK: NERVASTRAL SEAL-PRUF HD 20ML MANUFACTURED BY NERVASTRAL, INC. GREENWICH, CT 877-599-4891. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

GENERAL NOTE: SEE STRUCTURAL FOR MORE INFORMATION



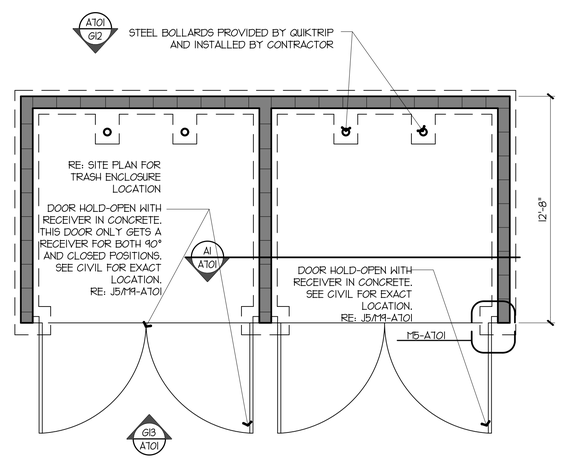
A1 TRASH ENCLOSURE SECTION

¾" = 1'-0" | A1-A101, A13, G9-A701



A9 GATE POST JAMB

¾" = 1'-0" | N1-A701



A13 TRASH ENCLOSURE PLAN

¾" = 1'-0" | A1-A101

STATE OF MISSOURI
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SHEET TITLE: TRASH ENCLOSURE

SHEET NUMBER: A701

REFER TO SHEET A101 FOR ALL TRASH ENCLOSURE INFORMATION

TAKE HOME COOLER 105
FREEZER 111
PLUMBING ROOM 110
WOMENS 106
MENS 107
SUPPORT SERVICE 102
WORKROOM 104
WORKROOM #2 112
SINGLES COOLER 103
SERVICE COUNTER 101
SALES AREA 100

L9-A502
F9-A502
A6-A403
A1-A403
A12-A403
A14-A411
A6-A412
G12-A212
N4-A212
G14-A212
N1-A213
G14-A212
N1-A213
G1-A212
K1-A212
K5-A212
G5-A212
G8-A212
A3-A410
A1-A410
A10-A560
E11-A560
A5-A410
K4-A211
A1-A410
A14-A413 SIM.
A7-A411
F13-A530
E1-A211
A1-A411
E13-A211
E4-A211
E5-A211
A4-A411
A4-A411 SIM.
K1-A211 TYP.
A4-A410 SIM.
A9-A211
A1-A211
A4-A411
E5-A211
A4-A410
A4-A410
K1-A211
K1-A211
A1-A410
3/100
A14-A212
D1-A212
A9-A212
D6-A212
A1-A410
A10-A560
A1-A212
A12-A411
D4-A212
D14-A212
A6-A212
L1-A210
F1-A210
L9-A210
A1-A210
A13, F13, L13 -A501
A1-A402
A6-A402
A12-A402
A9-A502
A8, L8 -A501
A1-A404
A11-A401
A1, F1, L1 -A501
A1-A401
A6-A401
A11-A501

HI A202
HI A301
A1 A301
A1 A202
A1 A202
HI A202
HI A301
A1 A301

1/101 2/100 1/102 1/103 1/104 1/105 1/106 1/107 1/110 2/104 2/105 3/100

A
B
C
D
E

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, O=LICKEL ARCHITECTURE, OU=LS, C=US
Reason: I AM APPROVING THIS DOCUMENT
Date: 2025.03.10 14:07:52 -05'07'

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STATE OF MISSOURI
DANIEL J. LICKEL
NUMBER A-2001016944
ARCHITECT

SIGNATURE DATE: 11/25/2024

LICKEL ARCHITECTURE
16200 Midland Drive
Shawnee, KS 66217
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Quik Trip No. 0183R

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LEES SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
REFERENCE FLOOR PLAN

SHEET NUMBER:
A101

A1
3/32" = 1'-0"
REFERENCE FLOOR PLAN
NORTH

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Lee's Summit, Missouri
03/07/2025

PLAN NOTES

- (A) NOTCH FOOTING FOR DOWNSPOUT, RE: M14-5501. RE: ARCH. FOR EXACT LOCATIONS
- (B) RE: SHEET S110 FOR MASONRY DIMENSIONS
- (C) RE: ELECTRICAL PLANS FOR LOCATION OF UFER GROUND, PER DETAIL A4-5501
- (D) NOT USED
- (#) NOTCH INTERIOR OF FOOTING FOR PLUMBING OR CONDUIT, RE: G14-5501. RE: PLUMBING & ELECTRICAL SHEETS FOR EXACT LOCATIONS

STRUCTURAL BRICK MASONRY WALL
STRUCTURAL CMU MASONRY WALL
PLAN: SLAB CONTROL OR CONSTRUCTION JOINT, RE: M8-5501 & M11-5501
GRID DESIGNATION
POINT LOAD SYMBOL
PLAN NOTE SYMBOL
SPOT ELEVATION
MASONRY CONTROL JOINT LOCATION

41'-0 3/4"
12'-0" FTG. BLOCKOUT
4'-5"
12'-0" FTG. BLOCKOUT
4'-10"
L3-5502
K1-5501a
K1-5501a
T.O.F. ELEV 2'-0" BELOW FINISHED FLOOR
1'-4" TYP. FTG. STEP PER G4-5501
G8-5501
SIM D14-5502
T.O.F. ELEV 0'-8" BELOW FINISHED FLOOR
G8-5501
STEP BOTTOM OF FOOTING 1'-8"
#5x4'-0" DIAGONAL @ BLOCKOUT CORNER
BLOCKOUT FOR THICKENED CONCRETE BASE (RE: ELECTRICAL DRAWINGS)
STEP BOTTOM OF FOOTING 1'-8"
T.O.F. ELEV 0'-8" BELOW FINISHED FLOOR
D11-5502
#5 EA. SIDE @ CENTER OF SLAB. EXTEND 30" BEYOND OPENING, TYP.
PROVIDE BLOCKOUT PER M1-5501
"A" BLOCKOUT 24" DIA. "B" BLOCKOUT 36" DIA. TYP.
#5 IN SLAB EA. SIDE; BAR LENGTH SHALL BE 4'-0" LONGER THAN BLOCKOUT DIAMETER
#5x4'-0" DOWELS (DIAGONAL @ EA. I.S. CORNER) TYP.
G8-5501
L3-5502
D11-5502
T.O.F. ELEV 2'-0" BELOW FINISHED FLOOR
T.O.F. ELEV 0'-8" BELOW FINISHED FLOOR
FINISHED SLAB ELEVATION = 5/8" BELOW ARCHITECTURAL FINISHED FLOOR
PROVIDE CRACK ISOLATION MEMBRANE AT ALL SLAB CONTROL JOINTS. MAX. DIMENSION BETWEEN JOINTS ± 15'-0"
4" CONCRETE SLAB REINFORCED WITH 6x6-W1.4xW1.4 WWF PLACED 1 1/2" BELOW TOP OF SLAB. PLACE SLAB OVER 10 MIL POLYETHYLENE VAPOR BARRIER OVER 4" ASTM C33 #57 CRUSHED ROCK OVER PROPERLY PREPARED SUBGRADE. CONSOLIDATE CRUSHED ROCK WITH VIBRATORY PLATE COMPACTOR
D11-5502
1'-4" TYP. FTG. STEP PER G4-5501
D14-5502
T.O.F. ELEV 0'-8" BELOW FINISHED FLOOR
SIM.
G11-5501
M6-5501
SIM.
G11-5501
REV. G11-5501
STEP BOTTOM OF FOOTING 1'-8"
E9-5501a
STEP BOTTOM OF FOOTING 1'-8"
FTG. BLOCKOUT
9'-6"
4'-6"
BACKFILL ALL CONDUITS AND ANY UNUSED ELECTRICAL BLOCKOUTS WITH FLOWABLE FILL TO 5'-0" FROM BUILDING. A RED COLORED FLOWABLE FILL OR CONCRETE SHALL BE USED AT ALL ELECTRICAL CONDUIT TRENCHES UNDER BUILDING SIDEWALK, TYP.
H1-5102
21'-10"
10'-8"
13'-0 3/8"
13'-0 3/8"
10'-8"
21'-10"

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MO# 020991

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
FOUNDATION PLAN

SHEET NUMBER:
S101

A1
FOUNDATION PLAN
1/4" = 1'-0"

NORTH

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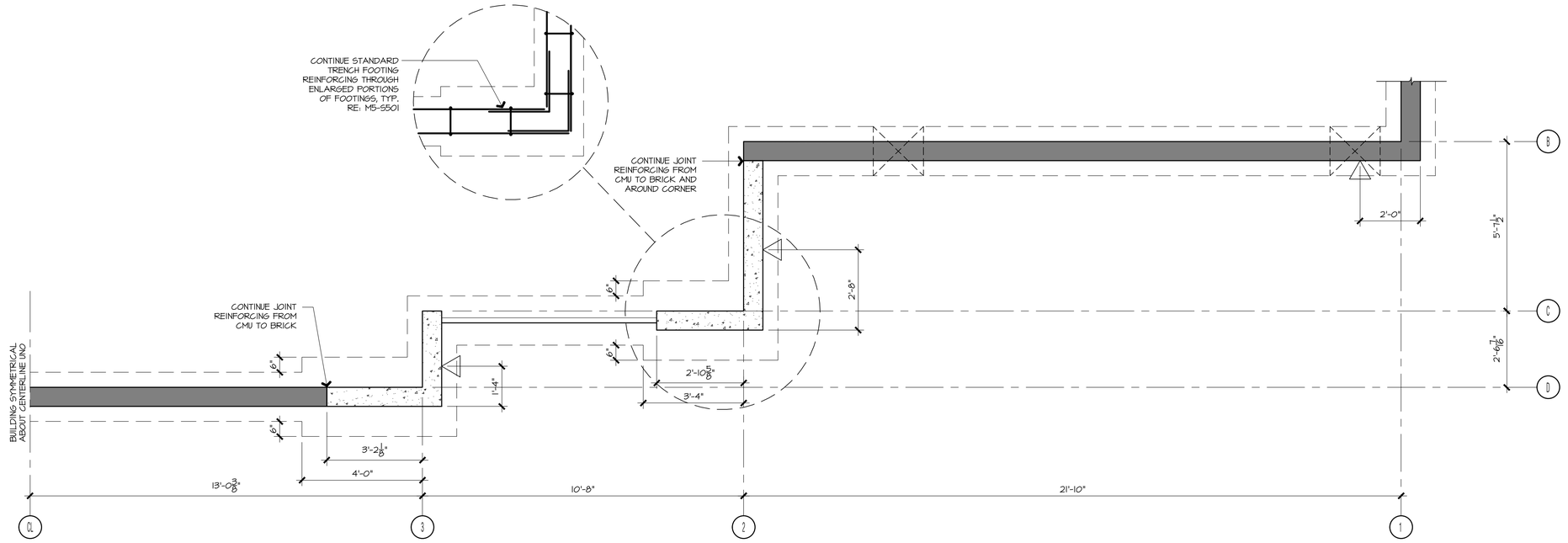
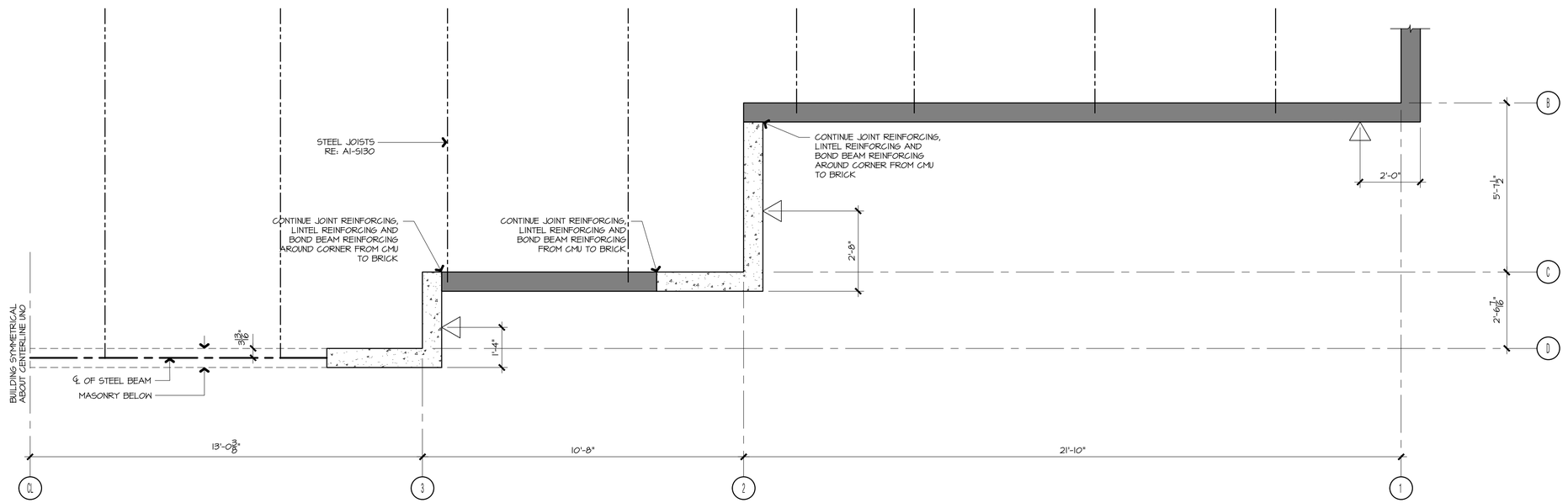
03/20/2025



H1 FRONT MASONRY LAYOUT LOW (@ GRADE ELEVATION)

3/4" = 1'-0" | A1-S101



A1 FRONT MASONRY LAYOUT HIGH (@ JOIST BEARING ELEVATION)

3/4" = 1'-0" | A1-S130

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PROTOTYPE	P-120
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REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
MASONRY DETAILS

SHEET NUMBER:
S102

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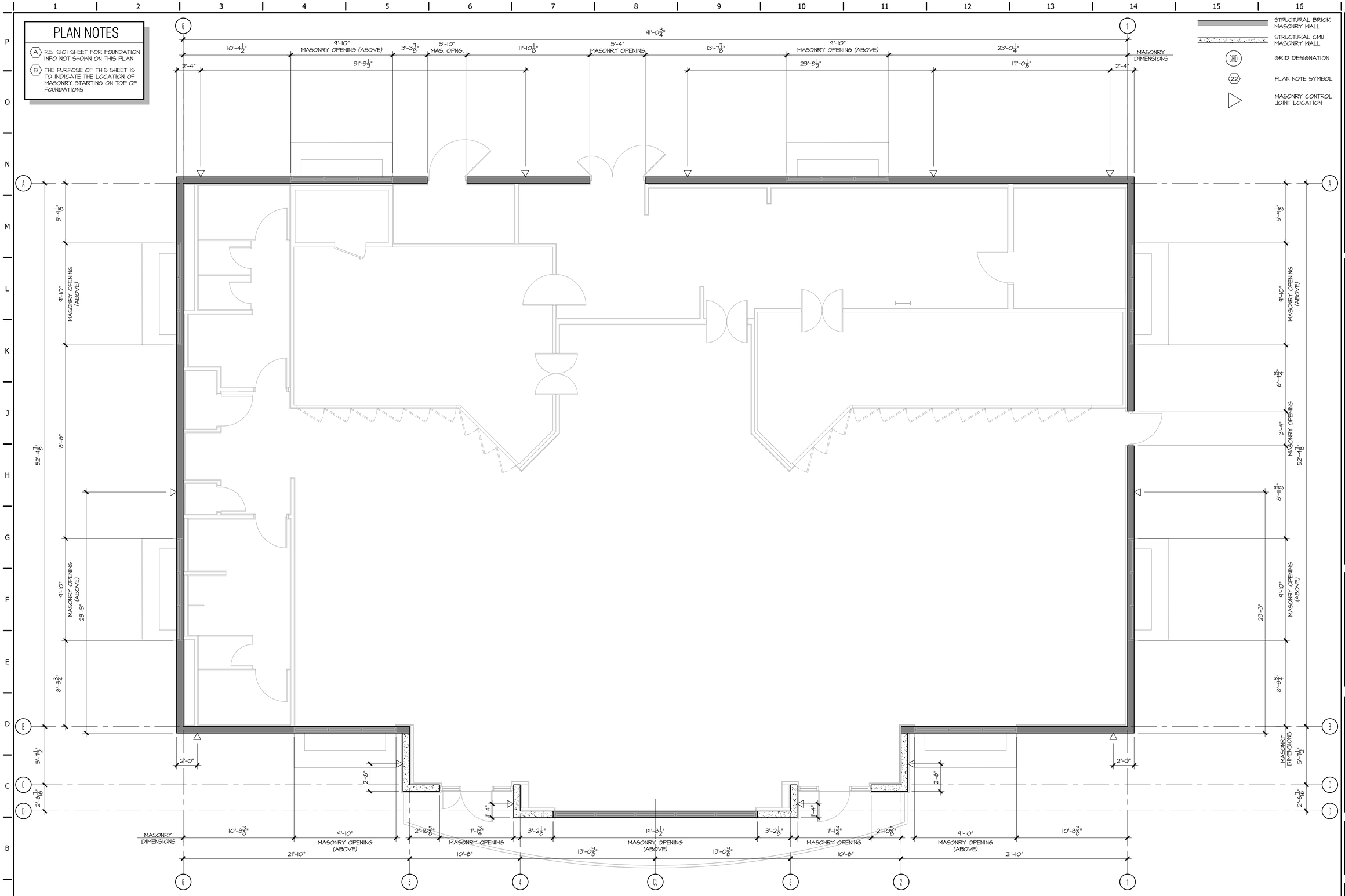
03/06/2025

PLAN NOTES

(A) RE: SI01 SHEET FOR FOUNDATION INFO NOT SHOWN ON THIS PLAN

(B) THE PURPOSE OF THIS SHEET IS TO INDICATE THE LOCATION OF MASONRY STARTING ON TOP OF FOUNDATIONS

STRUCTURAL BRICK MASONRY WALL
STRUCTURAL CMU MASONRY WALL
GRID DESIGNATION
PLAN NOTE SYMBOL
MASONRY CONTROL JOINT LOCATION



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VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
MASONRY DIMENSION PLAN

SHEET NUMBER:
S110

A1
MASONRY DIMENSION PLAN
1/4" = 1'-0"

NORTH

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Lee's Summit, Missouri
03/10/2025

PLAN NOTES

- (A) JOIST BRIDGING
- (B) GROSS BRACING
- (C) NOT USED
- (D) INSIDE DIMENSIONS OF SUPPORT FRAME INDICATED. FACE HORIZONTAL LEG AWAY FROM OPENING, TYP.
- (E) ENSURE JOIST BOTTOM CHORD LENGTH SUFFICIENT TO ALLOW POST BASE CONNECTION, TYP. @ ALL APPLICABLE LOCATIONS
- (F) NOT USED
- (G) PROVIDE EMBED AND REINFORCE CELLS SAME AS A4-5503

ALL LOADS TO BE SUPPORTED BY ROOF STRUCTURE HAVE BEEN INCLUDED IN THE ROOF JOIST SIZES INDICATED IN THE ROOF FRAMING PLAN

91'-0¾"
13'-10⅜"
WP FOR FRONT CANOPY RADIUS
RE: A8-5511 FOR JOIST POCKETS @ REAR WALL
SIM DII-5502
JOIST BRG. ELEV. = (+)13'-0 3/8" AFF
FACE HORIZ. LEG TOWARD OPENING, TYP.
A13-5520
RE: ARCH. & MEP FOR ROOF DRAIN INFO, TYP.
CENTER OF ANGLE, TYP.
3 EQUAL SPACES = 21'-1¼"
2 EQ. SPACES = 15'-0⅞"
RTU-1 (2100 LBS)
RTU-2 (2100 LBS)
RTU-3 (2100 LBS)
A4-5510
A8-5520
A13-5510
DII-5502
RE: A14-5521 A1-5510
A10-5511
L10-5511
D1-5510
A4-5504
A10-5510
D14-5502
D5-5510
A13-5520
A6-5520
A3-5510
SPLICE CHORD ANGLE W/ LEDGER ANGLE PER A14-5502 (SIM.) TYP.
STEEL ROOF DECK AND ATTACHMENT, RE:K1-5520, TYP.
A1-5102
L3 1/2X3 1/2X5/16" CONT. CHORD MEMBER (VERT. LEG DOWN; COPE AT JOISTS)
OUTSIDE FACE OF C12X25 WEB, TYP. TOP OF STEEL CHANNEL 11'-0 3/8"
W14X22 (HIGH)
W14X22 (LOW)
PC. C8X11.5
HSS 4X8X5/16
28LH08 STEEL JOISTS
32LH11 STEEL JOISTS
245 LBS WALK-IN FREEZER CONDENSING UNIT
388 LBS TAKE HOME COOLER CONDENSING UNIT
KEYMAKER CONDENSER UNIT FOR BADGER 180 LBS
SINGLES COOLER CONDENSING UNIT 375 LBS
MULTIPLEX CONDENSING UNIT 85 LBS
CRUSHED ICE ICEMAKER CONDENSER UNIT 180 LBS
CUBED ICE ICEMAKER CONDENSER UNIT 100 LBS
CRUSHED ICE ICEMAKER CONDENSER UNIT 180 LBS
END CAP FLOOR COOLER CONDENSING UNIT 230 LBS
END CAP FLOOR COOLER CONDENSING UNIT 230 LBS
6" TYP. UNO.
TYP.

STRUCTURAL BRICK MASONRY WALL
STRUCTURAL CMU MASONRY WALL
PLAN: SLAB CONTROL OR CONSTRUCTION JOINT
PLAN: STRUCTURAL JOIST
GRID DESIGNATION
POINT LOAD SYMBOL
PLAN NOTE SYMBOL
100'-0" SPOT ELEVATION
MASONRY CONTROL JOINT LOCATION

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MO# 020991
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PROTOTYPE	P-120
DIVISION	KANSAS CITY
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DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ROOF FRAMING PLAN

SHEET NUMBER:
S130

A1
ROOF FRAMING PLAN
1/4" = 1'-0"
NORTH

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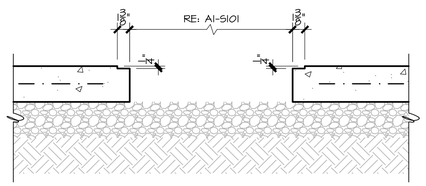
03/20/2025

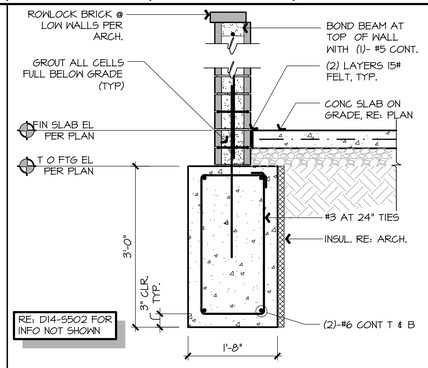
M1 MOP SINK BLOCKOUT

1½" = 1'-0" | A1-S101



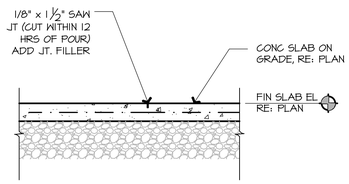
M5 FOOTING AT MASONRY WALL

3/4" = 1'-0" | A1-S101



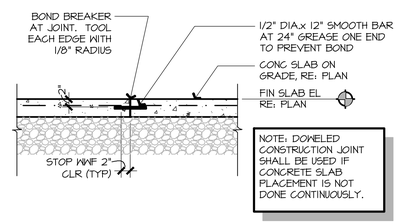
M8 CONTROL JOINT

3/4" = 1'-0" | A1-S101



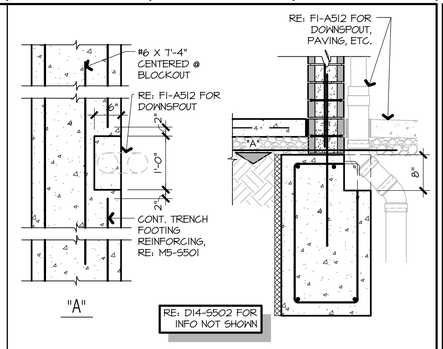
M11 CONSTRUCTION JOINT

3/4" = 1'-0" | A1-S101



M14 FOOTING NOTCH AT DOWNSPOUT

3/4" = 1'-0" | A1-S101



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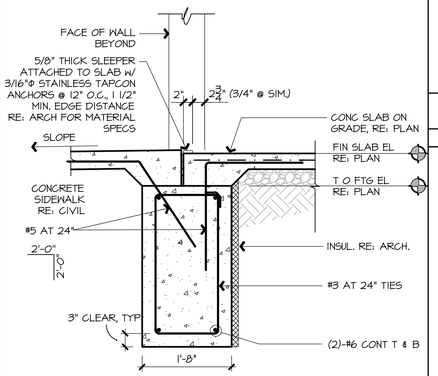
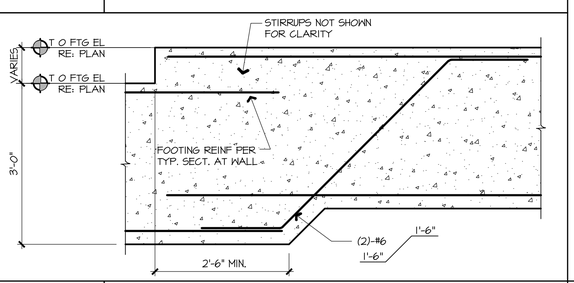
G1 FOOTING AT DOOR

3/4" = 1'-0" | A1-S101



K4 NOT USED

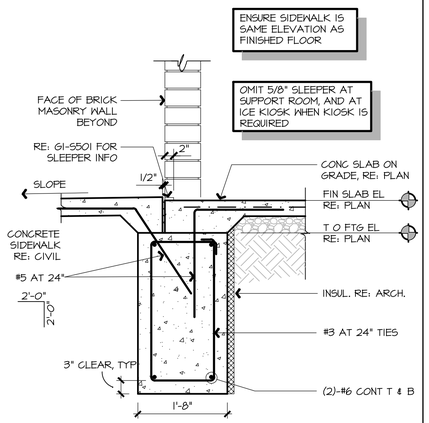


G4 FOOTING STEP

3/4" = 1'-0" | A1-S101

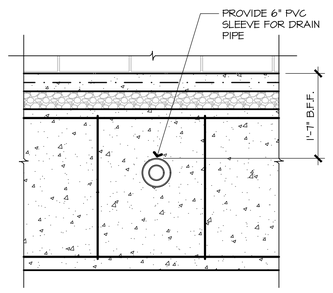
G8 FOOTING AT DOOR

3/4" = 1'-0" | A1-S101



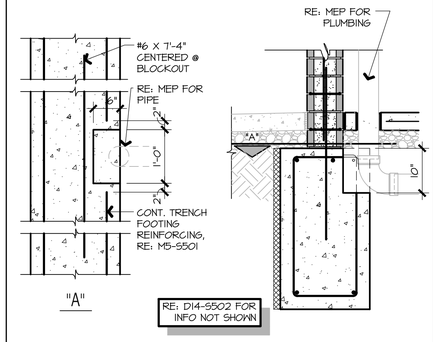
G11 FOOTING SLEEVE DETAIL

3/4" = 1'-0" | A1-S101



G14 FOOTING NOTCH AT PLUMBING

3/4" = 1'-0" | A1-S101



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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

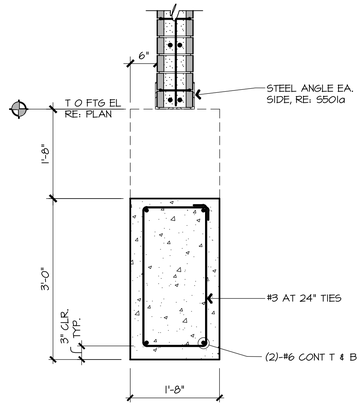
ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
FOUNDATION SECTIONS

SHEET NUMBER:
S501

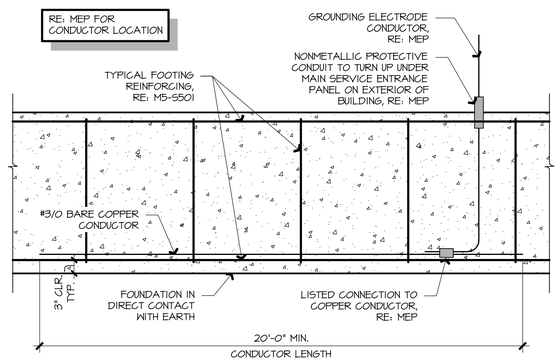
A1 BLOCKOUT SECTION

3/4" = 1'-0" | S501a



A4 UFER GROUND DETAIL

3/4" = 1'-0" | MEP



A9 NOT USED

A13 NOT USED

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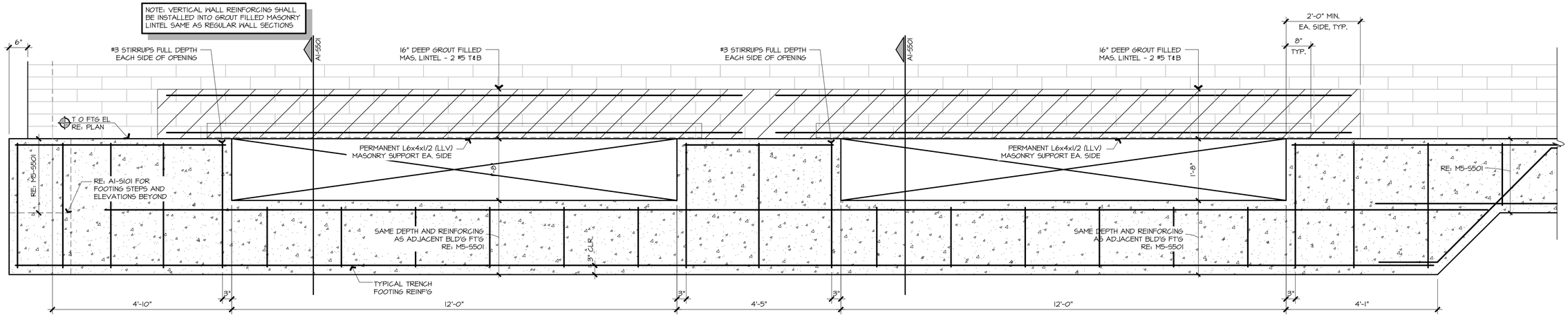
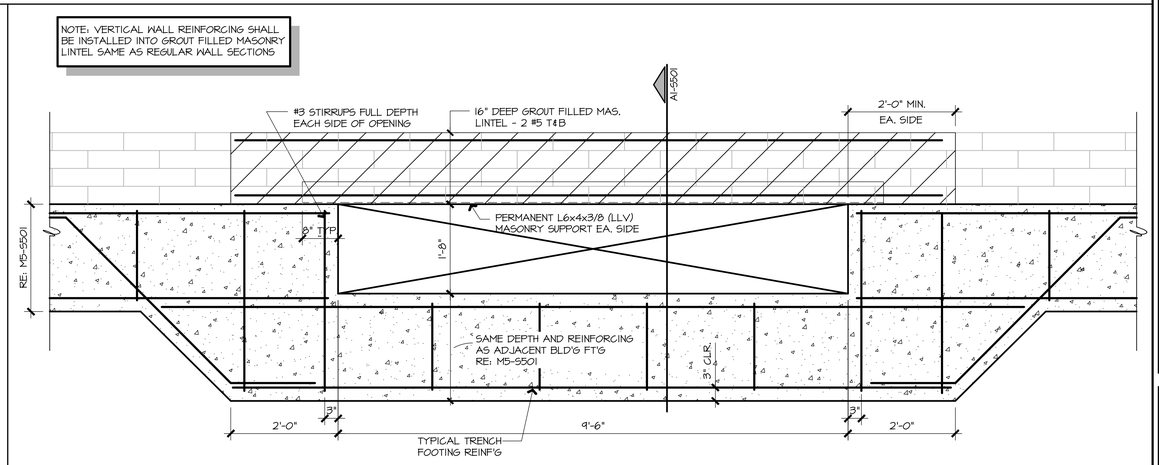


K1 ELECTRICAL BLOCKOUT (REAR)

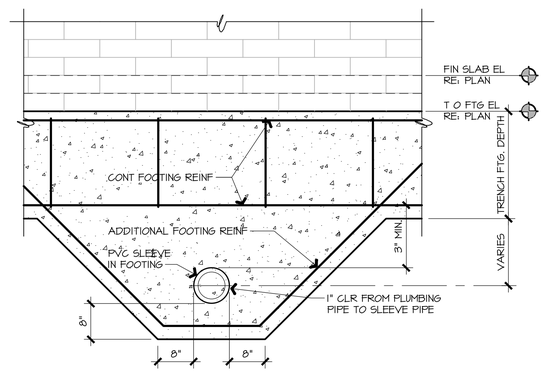
3/4" = 1'-0" A1-S101



E9 ELECTRICAL BLOCKOUT (FRONT)

3/4" = 1'-0" A1-S101

E1 NOT USED



A5 FOOTING SLEEVE DETAIL

3/4" = 1'-0" A1-S101

A1 NOT USED

A9 ELECTRICAL BLOCKOUT (SIDE)

3/4" = 1'-0" A1-S101

RODNEY W. SOMMER - P.E.
MO# 020991

SIGNATURE DATE: 11/25/24

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QuikTrip No. 0183R

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

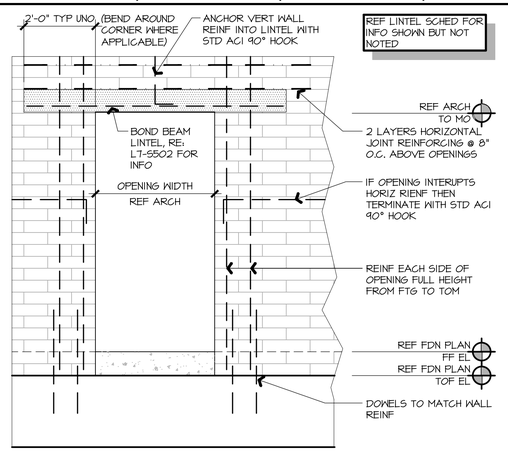
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
FOUNDATION SECTIONS

SHEET NUMBER:
S501a

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

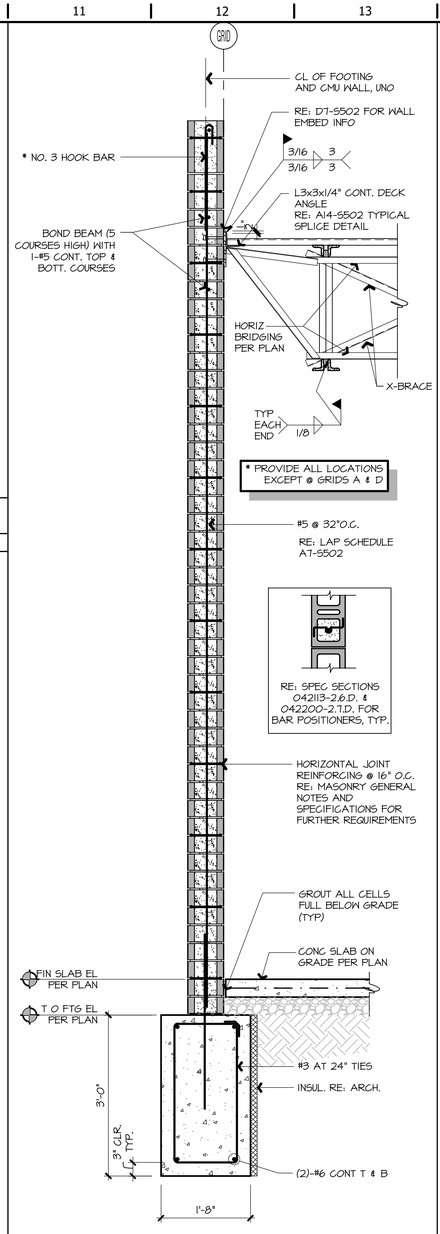


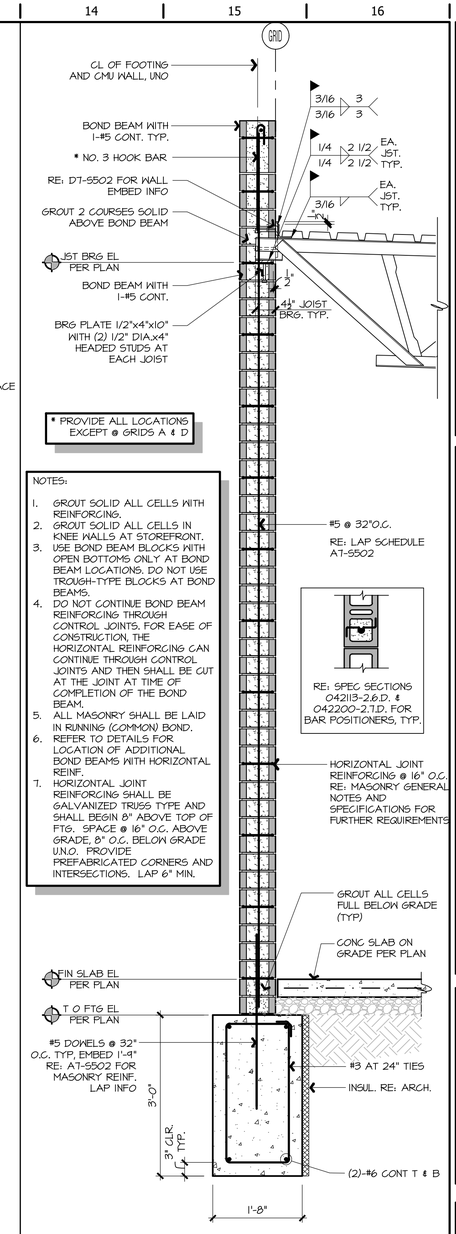
REF LINTEL SCHED FOR INFO SHOWN BUT NOT NOTED

1. FOR OPENINGS UP TO 8' IN WIDTH, THE HEIGHT OF MASONRY ABOVE LINTEL MUST BE A MINIMUM OF 1/2 THE OPENING WIDTH.
2. GROUT LINTEL SOLID FULL DEPTH.
3. PROVIDE LATERAL BRACING OF LINTEL JUST ABOVE CEILING.

MASONRY LINTEL SCHEDULE

OPENING SIZE	DEPTH	REINF
UP TO 4'-0"	8"	(2) #5 BOTTOM
4'-0" TO 6'-0"	1'-4"	(2) #5 T&B
6'-0" TO 8'-0"	2'-0"	(2) #5 T&B
8'-0" TO 12'-0"	2'-8"	(2) #5 T&B
12'-0" TO 16-0"	3'-4"	(2) #6 T&B
16'-0" TO 20'-0" (3)	3'-8"	(2) #7 T&B
20'-0" TO 24'-0" (3)	4'-0"	(2) #8 T&B
SWITCHGEAR ENCLOSURE	2'-0"	(2) #6 T&B





NOTES:
1. GROUT SOLID ALL CELLS WITH REINFORCING.
2. GROUT SOLID ALL CELLS IN KNEE WALLS AT STOREFRONT. USE BOND BEAM BLOCKS WITH OPEN BOTTOMS ONLY AT BOND BEAM LOCATIONS. DO NOT USE TROUGH-TYPE BLOCKS AT BOND BEAMS.
3. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS. FOR EASE OF CONSTRUCTION, THE HORIZONTAL REINFORCING CAN CONTINUE THROUGH CONTROL JOINTS AND THEN SHALL BE CUT AT THE JOINT AT TIME OF COMPLETION OF THE BOND BEAM.
4. ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. REFER TO DETAILS FOR LOCATION OF ADDITIONAL BOND BEAMS WITH HORIZONTAL REINF.
6. HORIZONTAL JOINT REINFORCING SHALL BE GALVANIZED TRUSS TYPE AND SHALL BEGIN 8" ABOVE TOP OF FTG. SPACE @ 16" O.C. ABOVE GRADE, 8" O.C. BELOW GRADE U.N.O. PROVIDE PREFABRICATED CORNERS AND INTERSECTIONS. LAP 6" MIN.

RODNEY W. SOMMER
NUMBER E-20991
MISSOURI
PROFESSIONAL ENGINEER
RODNEY W. SOMMER - P.E.
MO# 020991
SIGNATURE DATE: 11/25/24

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
S502

L1 NOT USED

L3 TYPICAL MAS. OPENING REINF.

3/4" = 1'-0" — A1-S101

L7 TYPICAL LINTEL INFORMATION

3/4" = 1'-0" — L3-S502

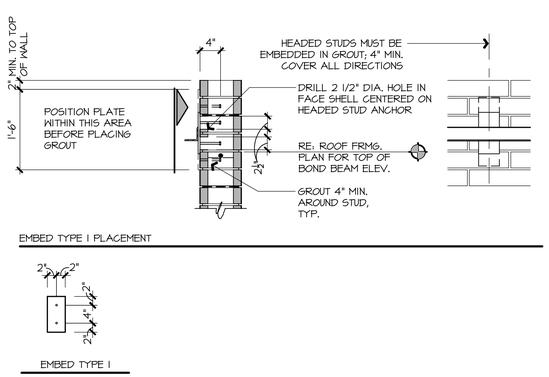
D1 BEAM CONNECTION AT HIGH PARAPET

3/4" = 1'-0" — A1-S130, D11-S502

MASONRY WALL EMBED SCHEDULE

	EMBED			CONTINUOUS STEEL MEMBER		
LOCATION	SIZE	TYPE	SPACING	SIZE	SPLICE TYPE	NOTES
FRONT WALL	PL 1/4"x4"x0'-8" WITH (2) 1/2" DIAx4" HEADED STUD ANCHOR	1	EQ. SPACED BETWEEN JOISTS	L3x3x1/4	1	1, 2, 3
SIDE WALLS	PL 1/4"x4"x0'-8" WITH (2) 1/2" DIAx4" HEADED STUD ANCHOR	1	48"	L3x3x1/4	1	1, 2
BACK WALL	PL 1/4"x4"x0'-8" WITH (2) 1/2" DIAx4" HEADED STUD ANCHOR	1	EQ. SPACED BETWEEN JOISTS	L3x3x1/4	1	1, 2, 3
CANOPIES	PL 1/4"x4"x0'-8" WITH (2) 1/2" DIAx4" HEADED STUD ANCHOR	1	24"	L3x3x1/4	1	1, 2

NOTES:
1. REFER TO DETAILS FOR EMBEDS WHICH ARE NOT SCHEDULED.
2. ALL EMBED PLATES SHALL BE PLACED WITH LONG DIMENSION VERTICAL.
3. AVOID CONFLICTS WITH BAR JOISTS



D7 WALL EMBED INFO

3/4" = 1'-0" — D11-S502, D14-S502, A4-S503, E4-S520

D11 NON BEARING WALL

3/4" = 1'-0" — A1-S101, A1-S130, D7-S502

D14 BEARING WALL

3/4" = 1'-0" — A1-S101, A1-S130, D7-S502

MASONRY REINFORCING AT CORNER

MASONRY CONTROL JOINT DETAIL

A1 MASONRY REINFORCING REQUIREMENTS

3/4" = 1'-0"

BAR SIZE	LAP
#3	18"
#4	24"
#5	30"
#6	47"
#7	65"

A7 MASONRY REINFORCING LAP SCHEDULE

3/4" = 1'-0"

A11 NOT USED

NOTE: WHERE DECK ANGLE ABUTS CHANNEL @ SIDEWALLS, WELD BAR TO TOP OF CHANNEL W/ 1/4" FILLET WELD 6" LG. BOTH SIDES

NOTE: AT ANGLE OFFSET, SPLICE BAR SHALL BE WELDED TO BOTTOM OF ANGLE

A14 ANGLE SPLICE DETAIL

3/4" = 1'-0" — A1-S130, D11-S502

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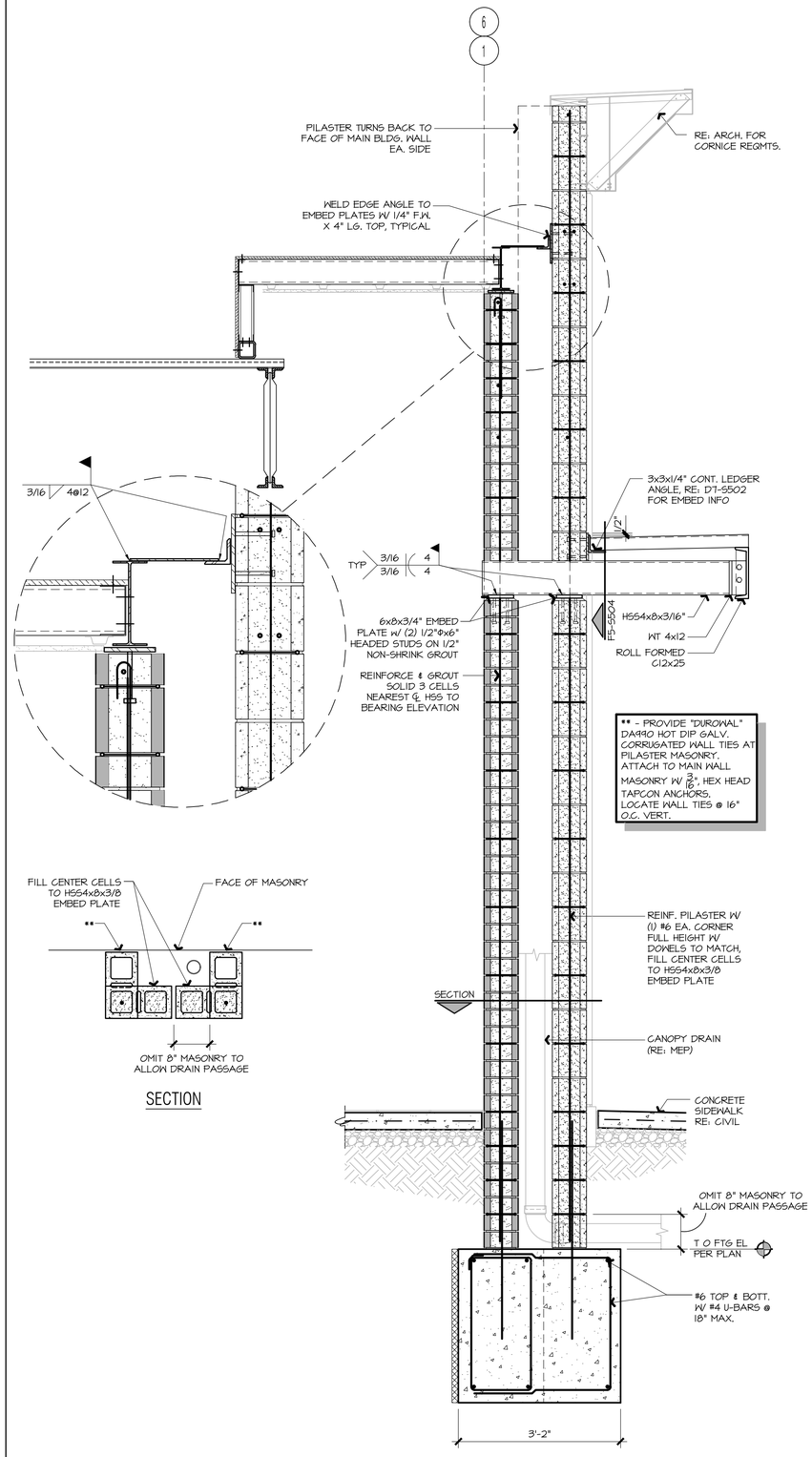
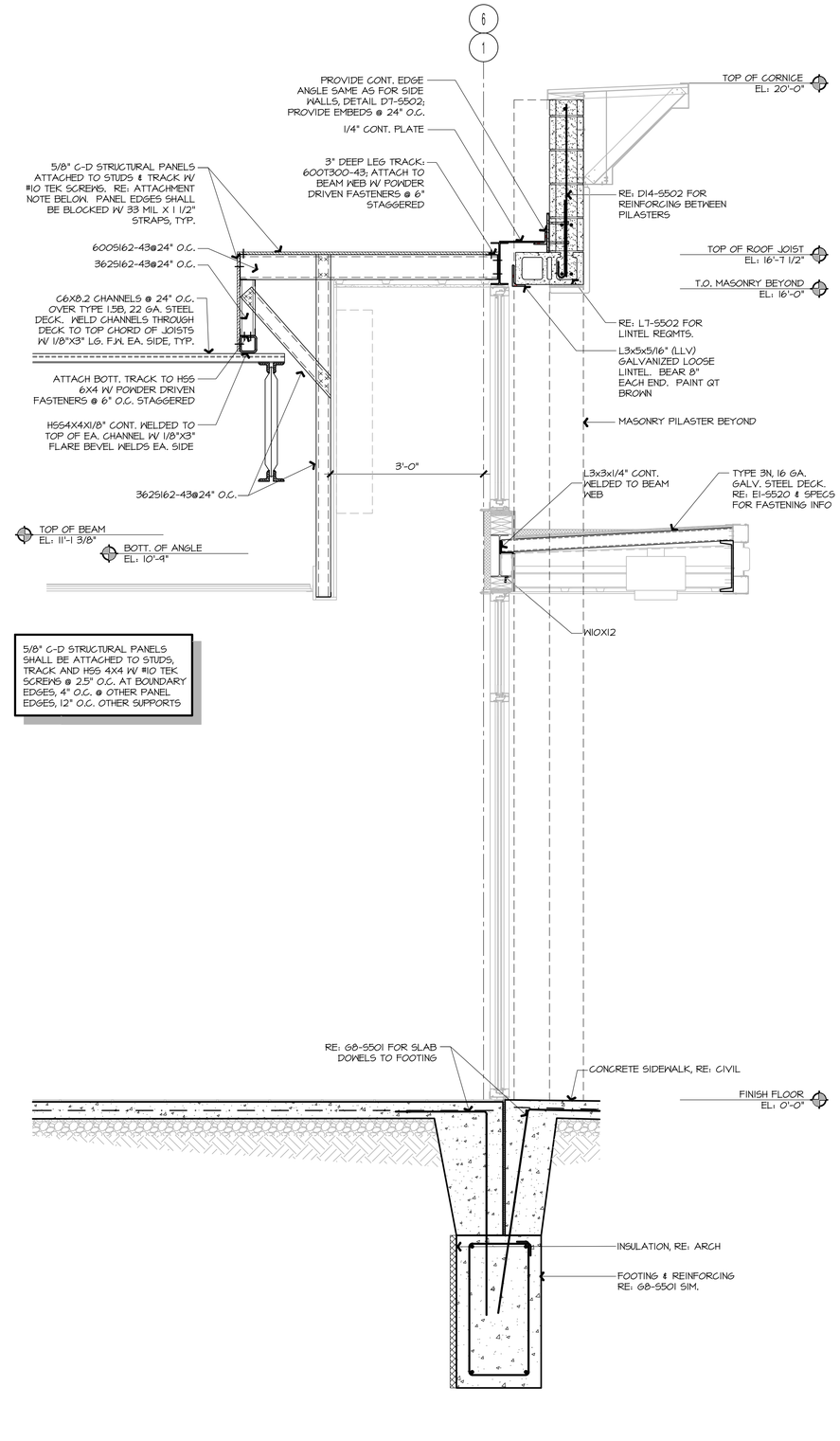
Lee's Summit, Missouri
03/20/2025





A1	NOT USED	A4	SECTION AT PILASTER	A10	SIDE ENTRY SECTION
		3/4" = 1'-0"	A1-S101, A1-S130	3/4" = 1'-0"	A1-S130

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

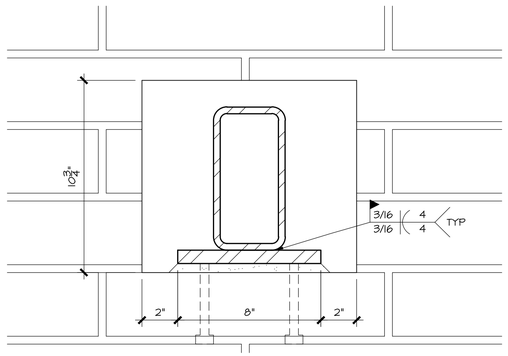
SHEET TITLE:
ENTRY SECTIONS

SHEET NUMBER:
S503

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/20/2025

K1 NOT USED

K13 NOT USED



F1 NOT USED

F5 TYP. CANOPY CANTILEVER HSS EMBED DETAIL

3/4" = 1'-0"

A4-S503

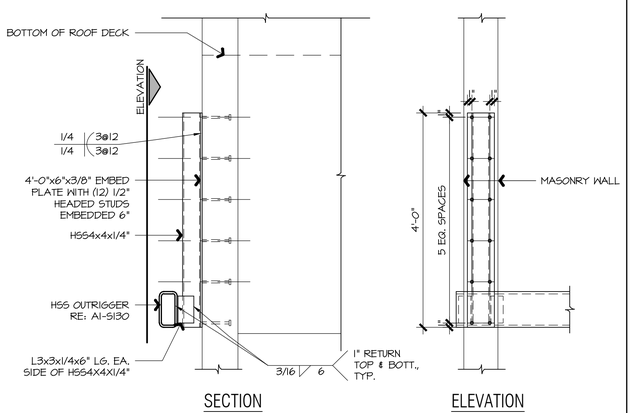
F9 NOT USED

F13 CANOPY CONDUIT ACCESS

3/4" = 1'-0"

A1-E104

A1 NOT USED



A5 NOT USED

A9 CANTILEVER TUBE END CONNECTION

3/4" = 1'-0"

A1-S130

A13 NOT USED

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MO# 020991

SIGNATURE DATE: 11/25/24

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:

CANOPY FRAMING DETAILS

SHEET NUMBER:

S504

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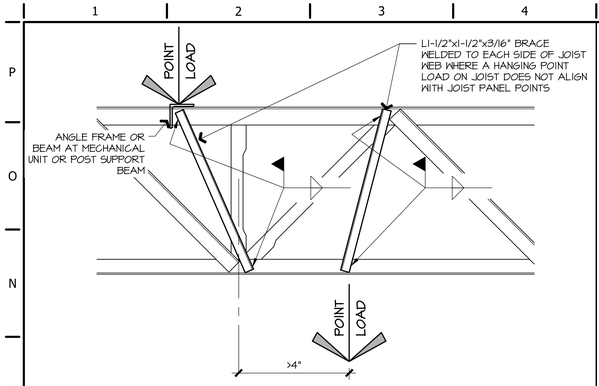
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/20/2025

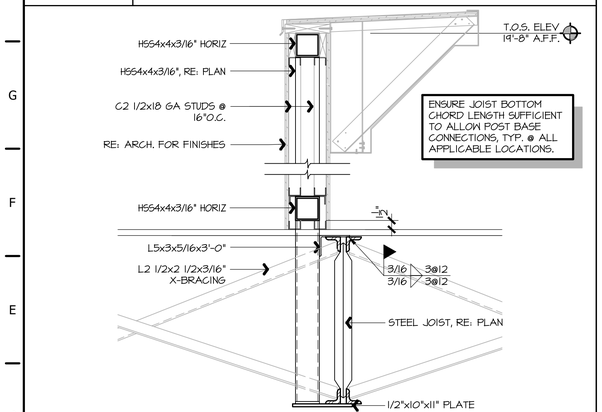


M1 JOIST REINFORCING DETAIL

1" = 1'-0" | A1-S130

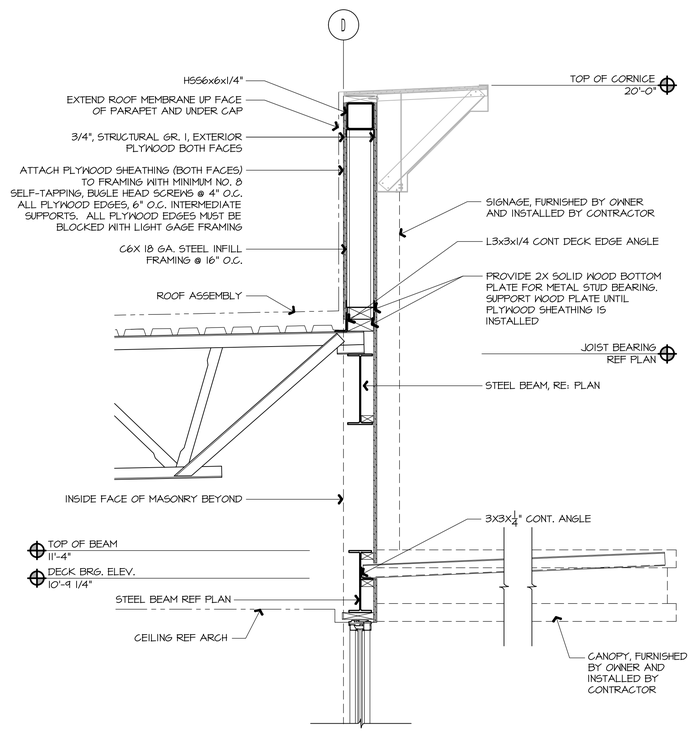
M5 NOT USED

H1 NOT USED



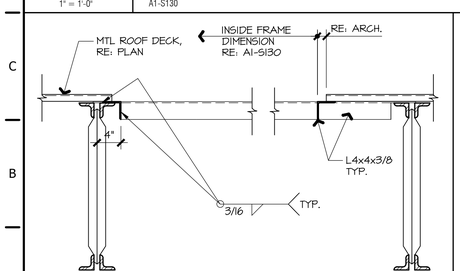
D1 PARAPET POST SUPPORT

1" = 1'-0" | A1-S130



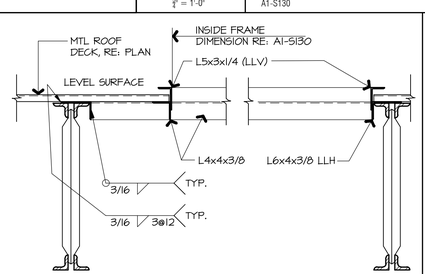
D5 FRONT ENTRY FRAMING

3/4" = 1'-0" | A1-S130



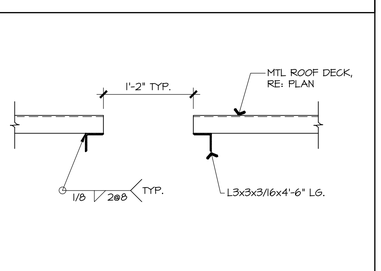
A1 ROOF HATCH OPENING

1" = 1'-0" | A1-S130



A4 RTU OPENING

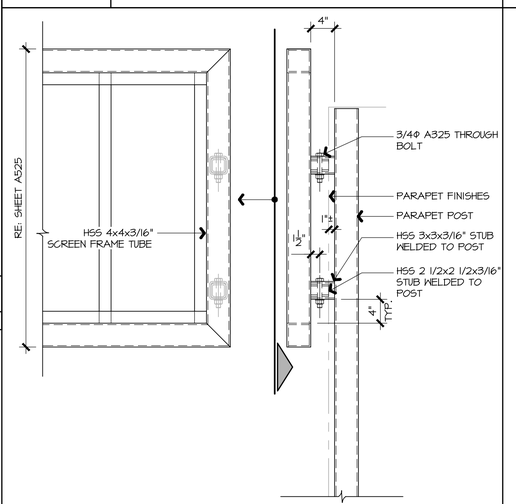
1" = 1'-0" | A1-S130



A7 CANOPY ROOF DRAIN OPENING

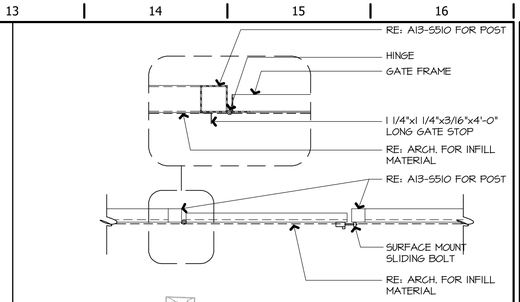
1" = 1'-0" | A1-S130

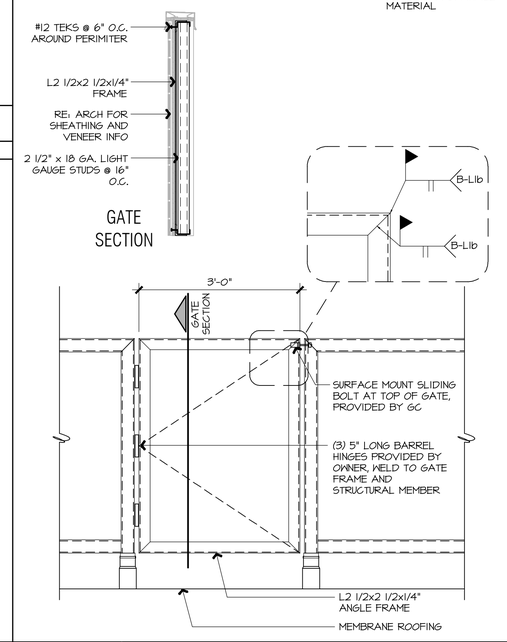
G10 NOT USED



A10 MECH. SCREEN POST CONNECTION

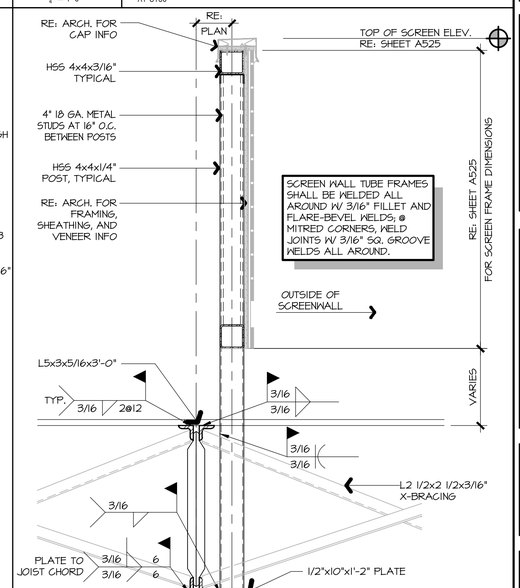
1" = 1'-0" | A1-S130





G13 MECHANICAL SCREEN GATE

3/4" = 1'-0" | A1-S130



A13 SECTION AT MECHANICAL SCREEN

1" = 1'-0" | A1-S130, G13-S510

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SIGNATURE DATE: 11/25/24

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DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

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SHEET TITLE:
ROOF FRAMING SECTIONS

SHEET NUMBER:
S510

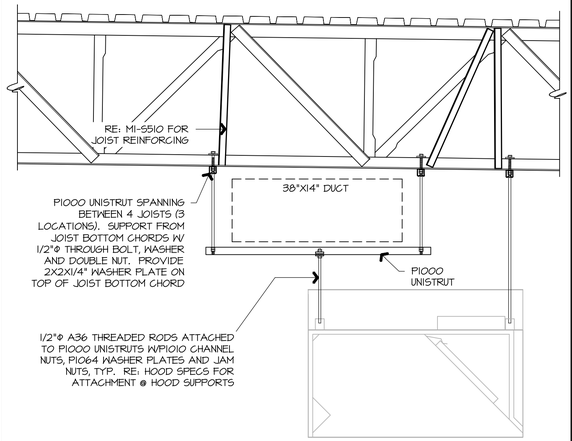
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/20/2025

L1 NOT USED

L10 KITCHEN EXH. HOOD SUPPORT

3/4" = 1'-0"

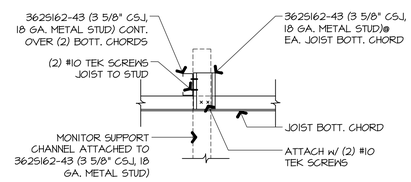
A1-S130



L14 MONITOR HANGER POST SUPPORT

1" = 1'-0"

RE: ARCH./MEP.



F1 NOT USED

F4 NOT USED

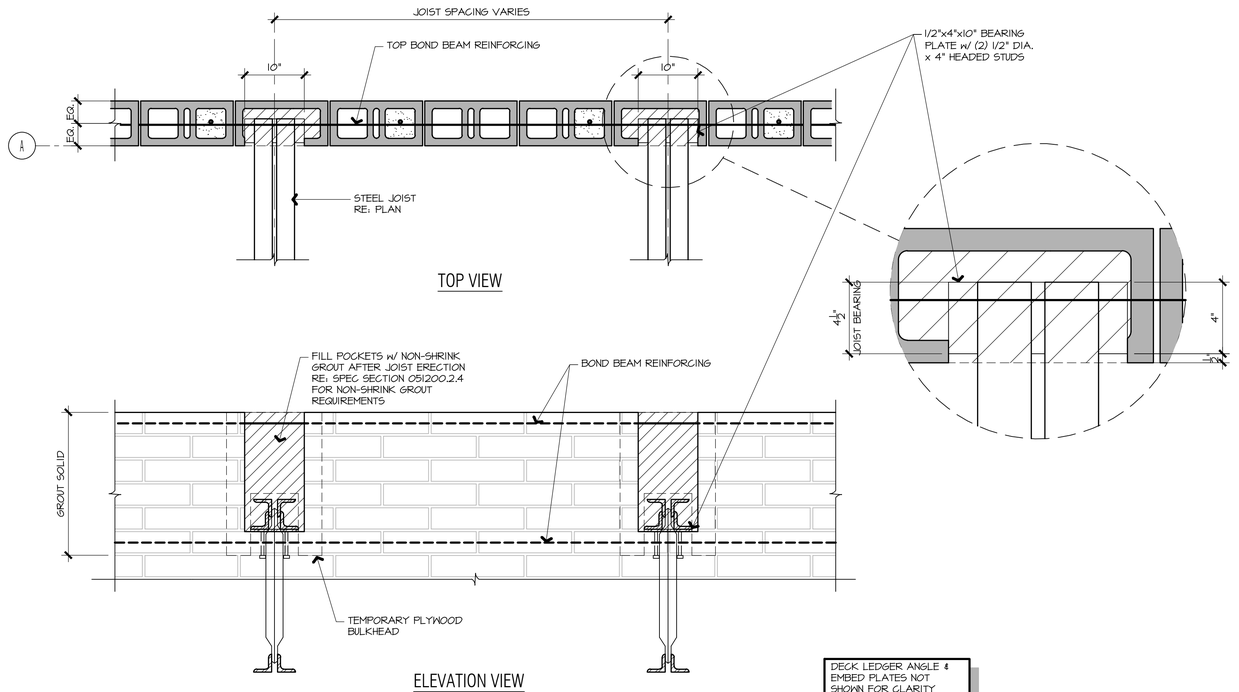
A1 NOT USED

A4 NOT USED

A8 JOIST BEARING POCKET DETAILS

1" = 1'-0"

A1-S130



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DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

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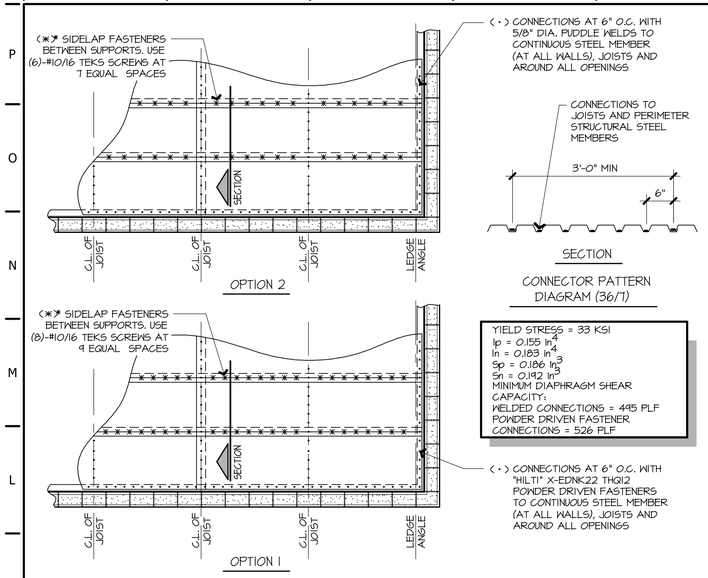
SHEET TITLE:
MONITOR MOUNT & HOOD SUPPORT DETAILS

SHEET NUMBER:
S511

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/07/2025

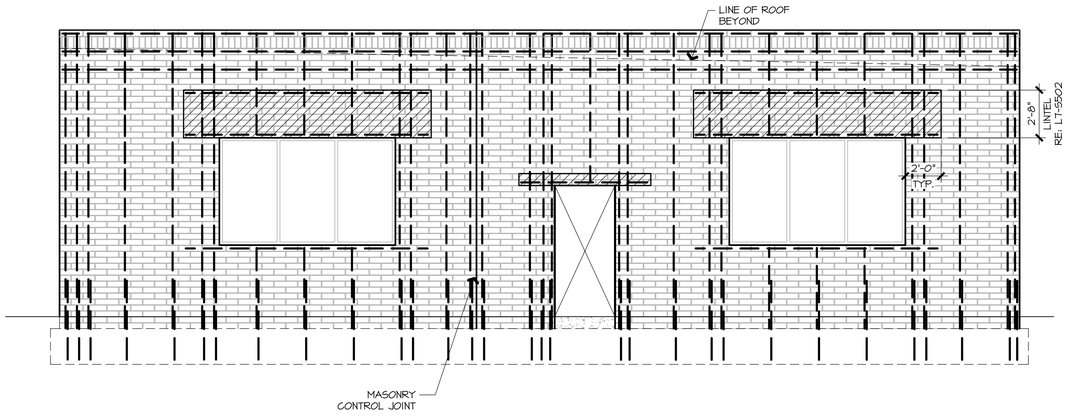


YIELD STRESS = 33 KSI
I_p = 0.155 in^4
I_n = 0.183 in^4
S_p = 0.186 in^3
S_n = 0.192 in^3
MINIMUM DIAPHRAGM SHEAR CAPACITY:
WELDED CONNECTIONS = 445 PLF
POWDER DRIVEN FASTENER CONNECTIONS = 526 PLF

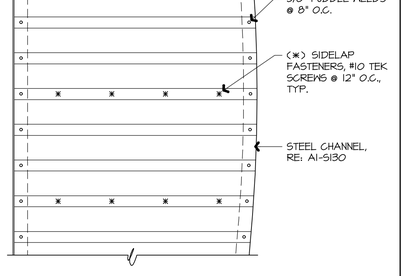
K1	ROOF DIAPHRAGM
3/32" = 1'-0"	A1-S130

NOTE: THE PURPOSE OF THIS ELEVATION IS TO SHOW REINFORCING OF PRIMARY BUILDING WALL RIGHT SIDE OF FRONT ENTRY. FOOTING SHOWN FOR SCHEMATIC REPRESENTATION ONLY. RE: A1-S101 FOR FOOTING STEP AND CONDUIT BLOCKOUT REQUIREMENTS

NOTE: REINFORCE MASONRY W #5 @ 32" O.C. AND SAME AS SIMILAR WALL AREAS WHERE NOT INDICATED IN THIS DETAIL. CANOPY FRAMING NOT SHOWN FOR CLARITY.



K6	SIDE ELEVATION
NTS	A1-S130

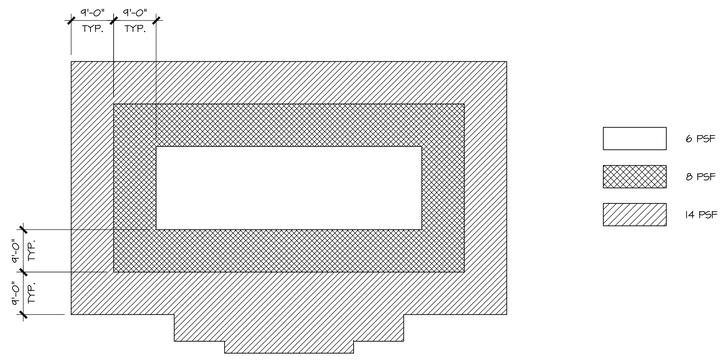


E1	BUILDING CANOPY DECK ATTACH.
3/4" = 1'-0"	A1-S130

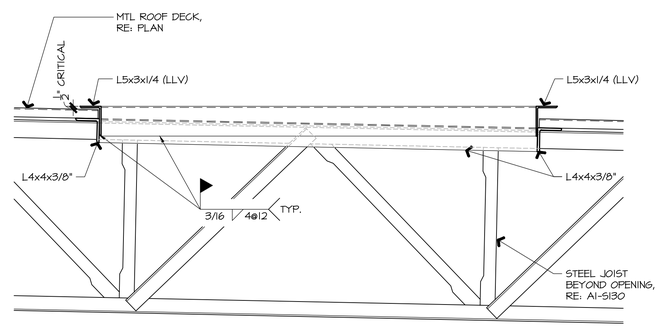
E4	NOT USED

E9	NOT USED

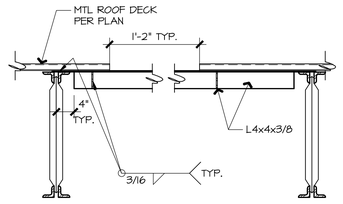
E14	NOT USED



A1	WIND UPLIFT DIAGRAM
3/32" = 1'-0"	A1-S130



A8	RTU LEVELING FRAME
1" = 1'-0"	A1-S130



A13	ROOF DRAIN OPENING
3/4" = 1'-0"	A1-S130

RODNEY W. SOMMER - P.E.
MO# 020991

SIGNATURE DATE: 11/25/24

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N&S JOB NUMBER: 2024-2239
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QuikTrip No. 0183R

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
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VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

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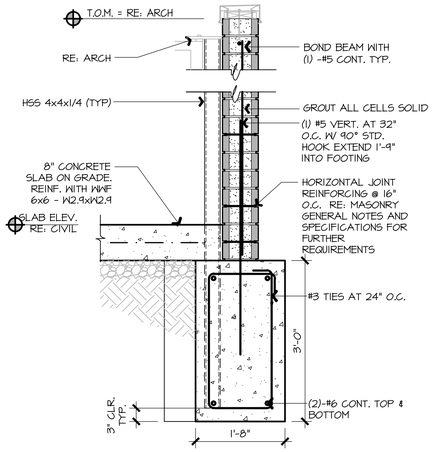
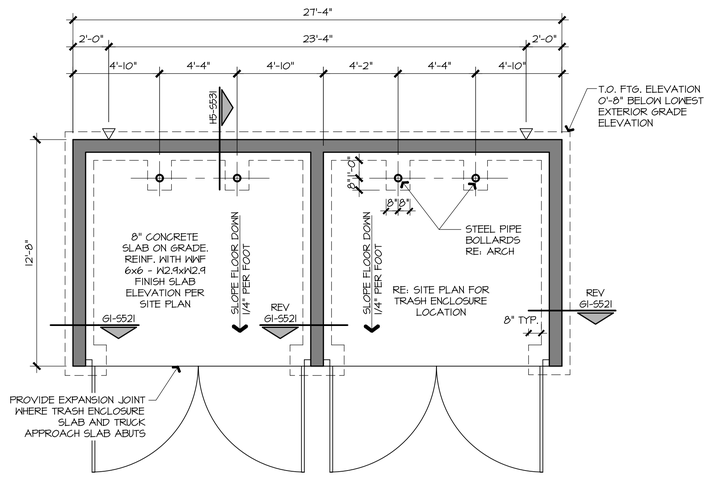
SHEET TITLE:
MISCELLANEOUS SECTIONS

SHEET NUMBER:
S520

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/20/2025



G1	TRASH ENCLOSURE DETAIL	G4	NOT USED
3/4" = 1'-0"	A1-S521		



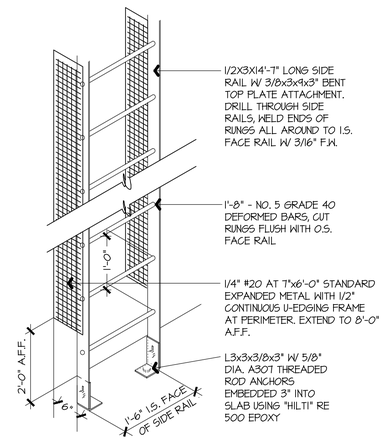
A1	TRASH ENCLOSURE PLAN
3/4" = 1'-0"	G1-S521, H5-S531

A8	NOT USED

A11	NOT USED

L14	NOT USED

G14	NOT USED



A14	SECTION AT LADDER
3/4" = 1'-0"	A1-S130

RODNEY W. SOMMER
NOTARY PUBLIC - NOTARY SEAL STATE OF MISSOURI
COMMISSION NUMBER E-20991
MY COMMISSION EXPIRES: JANUARY 31, 2028
RODNEY W. SOMMER - P.E.
MO# 020991

SIGNATURE DATE: 11/25/24

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SHEET TITLE:
MISCELLANEOUS DETAILS

SHEET NUMBER:
S521

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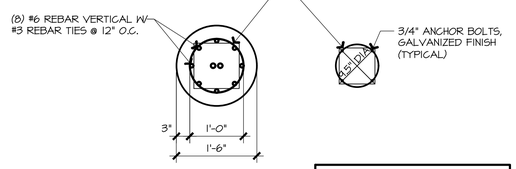
Development Services Department
Lee's Summit, Missouri
03/20/2025

M9 NOT USED

TEMPLATES SUPPLIED BY QUIKTRIP

ANCHOR BOLTS PROVIDED BY MANUFACTURER



NOTE: THIS DETAIL VALID FOR 22' MAXIMUM FIXTURE MOUNTING HEIGHT

H9 LIGHT POLE BASE PLAN

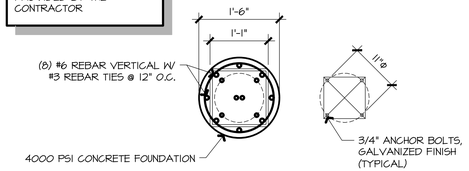
NTS | RE: CIVIL

LIGHT POLE AND ATTACHMENT HARDWARE SUPPLIED BY QUIKTRIP

ANCHOR BOLTS PROVIDED BY MANUFACTURER

NOTES:
BREAK-AWAY BASE MDL NO. TB2-17 AS MANUFACTURED BY AKRON FOUNDRY COMPANY, AKRON OHIO 1(330)745-3101

BREAK-AWAY BASE TO BE PROVIDED BY THE CONTRACTOR



ANCHOR BOLT TEMPLATE

NOTE: THIS DETAIL VALID FOR 22' MAXIMUM FIXTURE MOUNTING HEIGHT

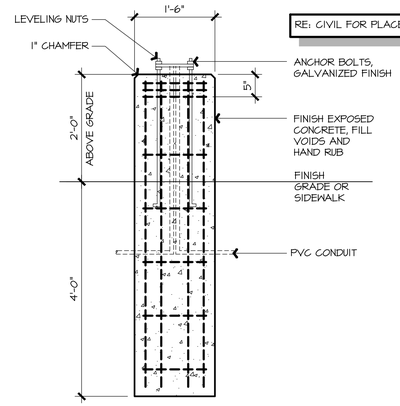
H13 LIGHT POLE BASE SECTION

NTS | RE: CIVIL

TEMPLATES SUPPLIED BY QUIKTRIP

ANCHOR BOLTS PROVIDED BY MANUFACTURER

RE: CIVIL FOR PLACEMENT



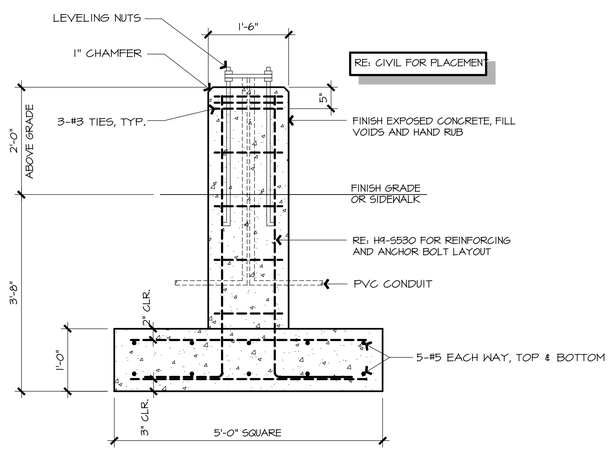
NOTE: THIS DETAIL VALID FOR 22' MAXIMUM FIXTURE MOUNTING HEIGHT

A1 SPREAD FOOTING LIGHT POLE BASE SECTION

NTS | RE: CIVIL

ATTACHMENT HARDWARE SUPPLIED BY QUIKTRIP

ANCHOR BOLTS PROVIDED BY MANUFACTURER



NOTE: THIS DETAIL VALID FOR 22' MAXIMUM FIXTURE MOUNTING HEIGHT

A9 BREAK-AWAY LIGHT POLE BASE PLAN

NTS | RE: CIVIL

LIGHT POLE AND ATTACHMENT HARDWARE SUPPLIED BY QUIKTRIP

ANCHOR BOLTS PROVIDED BY MANUFACTURER

NOTE: THIS DETAIL VALID FOR 22' MAXIMUM FIXTURE MOUNTING HEIGHT

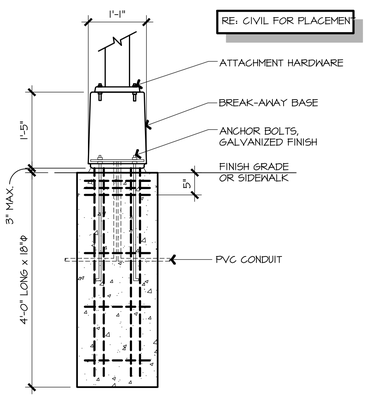
A13 BREAK-AWAY LIGHT POLE BASE SECTION

NTS | RE: CIVIL

LIGHT POLE AND ATTACHMENT HARDWARE SUPPLIED BY QUIKTRIP

ANCHOR BOLTS PROVIDED BY MANUFACTURER

RE: CIVIL FOR PLACEMENT



NOTE: THIS DETAIL VALID FOR 22' MAXIMUM FIXTURE MOUNTING HEIGHT

RODNEY W. SOMMER - P.E.
MO# 020991

SIGNATURE DATE: 11/25/24

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LIGHT POLE BASE DETAILS

SHEET NUMBER:
S530

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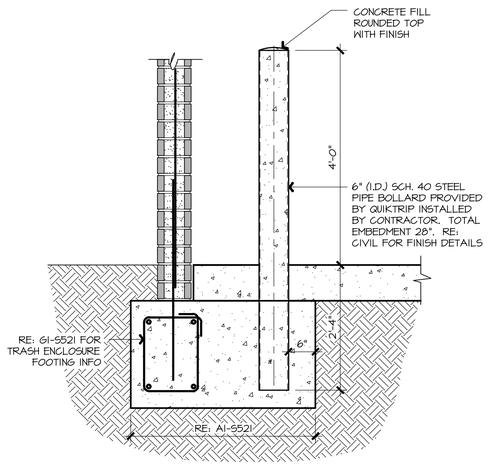
Development Services Department
Lee's Summit, Missouri
03/20/2025

H1 NOT USED

H5 6" TRASH ENCLOSURE BOLLARD

3/4" = 1'-0" RE: CIVIL

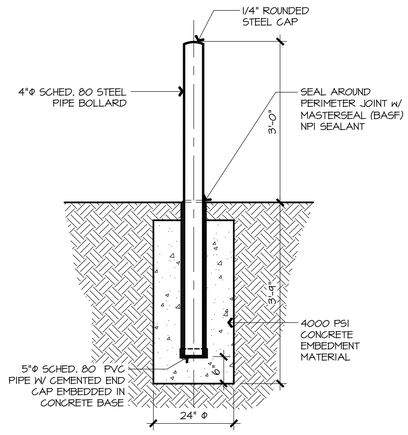


NOTES:
1. BOLLARD AND SLEEVE SUPPLIED BY QUIKTRIP
2. FILL VOIDS W/ SILICA SAND BETWEEN BOLLARD & SLEEVE ONCE BOLLARD IS INSERTED INTO SLEEVE
3. RE: CIVIL FOR FINISH DETAILS
4. BOLLARD INSTALLED INTO SOIL CAPABLE OF SUSTAINING AN ALLOWABLE LATERAL BEARING PRESSURE OF 200 PSF/FT. DEPTH
5. EXTEND PVC SLEEVE TO GRADE.
6. SLEEVE TO BE CAPPED DURING PAVEMENT INSTALLATION, THEN REMOVED TO INSTALL BOLLARD

RE: CIVIL FOR BOLLARD LOCATION

H9 4" MONUMENT SIGN BOLLARD

3/4" = 1'-0" RE: CIVIL

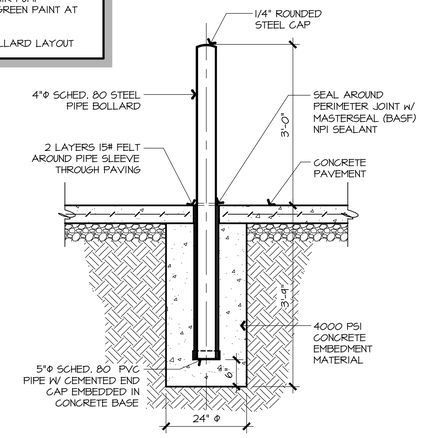


NOTES:
1. BOLLARD AND SLEEVE SUPPLIED BY QUIKTRIP
2. FILL VOIDS W/ SILICA SAND BETWEEN BOLLARD & SLEEVE ONCE BOLLARD IS INSERTED INTO SLEEVE
3. RE: CIVIL FOR FINISH DETAILS
4. BOLLARD INSTALLED INTO SOIL CAPABLE OF SUSTAINING AN ALLOWABLE LATERAL BEARING PRESSURE OF 200 PSF/FT. DEPTH
5. BOLLARD INSTALLED MINIMUM DISTANCE OF 16" FROM FREE EDGE OF PAVEMENT SURROUNDING BOLLARD
6. EXTEND SLEEVE TO WITHIN 1/4" OF TOP OF CONCRETE
7. PROVIDE 2 LAYERS 15# FELT AROUND PIPE SLEEVE THROUGH PAVING BETWEEN CONCRETE AND SLEEVE
8. SLEEVE TO BE CAPPED DURING PAVEMENT INSTALLATION, THEN REMOVED TO INSTALL BOLLARD
9. SCHEDULE 80 BOLLARDS FOR BUILDING AND AIR PUMP IDENTIFIED BY GREEN PAINT AT END

RE: CIVIL FOR BOLLARD LAYOUT

H13 4" SITE BOLLARD (BLDG. PERIMETER / AIR PUMP)

3/4" = 1'-0" RE: CIVIL

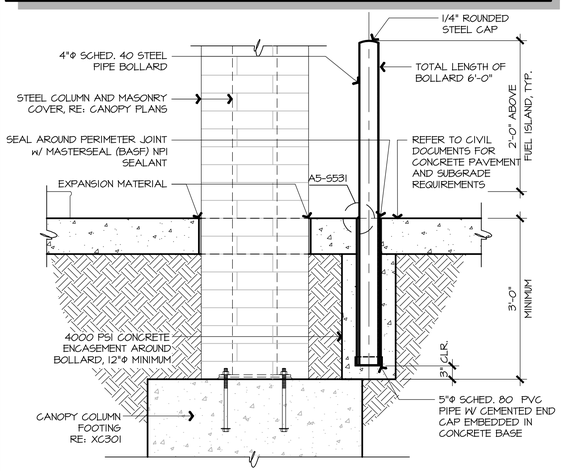


NOTES:
1. BOLLARD AND SLEEVE SUPPLIED BY QUIKTRIP
2. FILL VOIDS W/ SILICA SAND BETWEEN BOLLARD & SLEEVE ONCE BOLLARD IS INSERTED INTO SLEEVE
3. RE: CIVIL FOR FINISH DETAILS
4. BOLLARD INSTALLED INTO SOIL CAPABLE OF SUSTAINING AN ALLOWABLE LATERAL BEARING PRESSURE OF 200 PSF/FT. DEPTH
5. BOLLARD INSTALLED MINIMUM DISTANCE OF 16" FROM FREE EDGE OF PAVEMENT SURROUNDING BOLLARD
6. EXTEND SLEEVE TO WITHIN 1/4" OF TOP OF CONCRETE
7. PROVIDE 2 LAYERS 15# FELT AROUND PIPE SLEEVE THROUGH PAVING BETWEEN CONCRETE AND SLEEVE
8. SLEEVE TO BE CAPPED DURING PAVEMENT INSTALLATION, THEN REMOVED TO INSTALL BOLLARD.
9. THIS BOLLARD DESIGN HAS BEEN PROVIDED BY QT AND IS NOT DESIGNED FOR SPECIFIC VEHICLE IMPACT
10. STEEL COLUMN DESIGN AND BASE PROTECTION, RE: CANOPY PLANS.
11. SCHEDULE 40 BOLLARDS FOR GAS ISLANDS IDENTIFIED BY ORANGE PAINT AT END

RE: CIVIL FOR BOLLARD LAYOUT

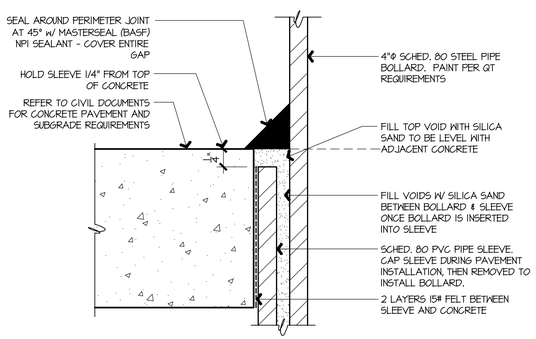
A1 4" GAS ISLAND BOLLARD

3/4" = 1'-0" RE: CIVIL, A5-S531



A5 BOLLARD SLEEVE DETAIL

1'-0" = 1'-0" RE: CIVIL, A1-S531



A9 NOT USED

A13 NOT USED

RODNEY W. SOMMER
NUMBER E-20991
PROFESSIONAL ENGINEER
RODNEY W. SOMMER - P.E.
MO# 020991
SIGNATURE DATE: 11/25/24

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SHEET TITLE:
BOLLARD DETAILS

SHEET NUMBER:
S531

GENERAL STRUCTURAL NOTES

DESIGN PARAMETERS
1. BUILDING CODE ..... 2018 IBC

2. DEAD LOADS
ROOF ..... 16 PSF

3. LIVE LOADS
ROOF ..... 20 PSF

4. SNOW LOADS
A. GROUND SNOW LOAD, Pg ..... 20 PSF
B. FLAT ROOF SNOW LOAD, Pf ..... 14 PSF PLUS DRIFTING
C. SNOW EXPOSURE FACTOR, Ce 1.0
D. IMPORTANCE FACTOR, I 1.0
E. THERMAL FACTOR 1.0

5. WIND LOADS
A. WIND SPEED
V ult. ..... 115 MPH
V asd ..... 89 MPH
B. RISK CATEGORY II
C. EXPOSURE CLASSIFICATION C
D. APPLICABLE INTERNAL PRESSURE COEFFICIENT ..... +/- 0.18
E. COMPONENTS AND CLADDING ..... (+)15 PSF; (-)18 PSF
F. NET UPLIFT (30ft2) ..... REF: A1-S520

6. EARTHQUAKE LOADS
A. IMPORTANCE FACTOR 1.0
B. RISK CATEGORY II
C. Ss 0.1
D. S1 ..... 0.068
E. SITE CLASS ..... D
F. Sds 0.106
G. Sd1 ..... 0.109
H. SEISMIC DESIGN CATEGORY ..... B
I. BASIC SEISMIC FORCE RESISTING SYSTEM ..... BEARING WALL SYSTEM W/ ORDINARY REINFORCED MASONRY SHEAR WALLS
J. DESIGN BASE SHEAR 0.053W
K. Cs 0.053
L. R 2
M. ANALYSIS PROCEDURE ..... EQUIVALENT LATERAL FORCE METHOD

GENERAL
1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL BRACING, ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN COMPLETED.
2. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. RE: MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. THESE NOTES SUPPLEMENT THE SPECIFICATION WHICH SHOULD BE REFERRED TO FOR ADDITIONAL INFORMATION. ANY CONFLICT AND/OR CONTRADICTION OF TERMS OR REQUIREMENTS BETWEEN PLANS, SPECIFICATIONS AND THESE GENERAL NOTES WILL BE RESOLVED BY THE ARCHITECT/ENGINEER IN FAVOR OF THE MORE STRINGENT OR SUPERIOR QUALITY REQUIREMENT.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND FOR COORDINATING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THOSE SHOWN ON THE ARCHITECTURAL AND MEP DRAWINGS. IF ERRORS OR DISCREPANCIES IN THE DIMENSIONS OCCUR, IT SHALL BE THE SUPERINTENDENT'S RESPONSIBILITY TO BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
5. THE CONTRACTOR SHALL VERIFY ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL OPENINGS, SIZES AND LOCATIONS WITH THE STRUCTURAL DRAWINGS.
6. STRUCTURAL DETAILS SHOWN ON THESE DRAWINGS ARE GENERAL IN NATURE AND ARE VALID FOR ALL SIMILAR AREAS AND CONDITIONS, UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
7. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING AS REQUIRED DURING CONSTRUCTION TO ENSURE THE SAFETY OF ALL INDIVIDUALS INVOLVED.
8. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR INFERRED BY THESE DRAWINGS.

DIVISION 2 - FOUNDATIONS
1. FOUNDATIONS DESIGN IS BASED ON AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF. SOIL PROPERTIES AND BEARING CAPACITY SHALL BE VERIFIED IN WRITING BY AN APPROVED, QUALIFIED GEOTECNICAL ENGINEER PRIOR TO PLACING FOOTING OR SLAB ON GRADE CONCRETE. GEOTECHNICAL ENGINEER SHALL PERFORM ALL TESTS AS REQUIRED TO ENSURE OWNER THAT SITE IS COMPLETELY SUITABLE FOR CONSTRUCTION OF THIS FACILITY. GEOTECHNICAL ENGINEER SHALL PROVIDE A COPY OF THE FINAL TESTING REPORT WITH CONCLUSIONS AND RECOMMENDATIONS TO THE STRUCTURAL ENGINEER FOR HIS RECORDS. FINAL RECOMMENDATIONS ARE SUBJECT TO CHANGE BASED ON FINAL GEOTECHNICAL REPORT.
2. CONTRACTOR SHALL READ THE SOILS REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION.
3. MINIMUM BEARING DEPTH IS 2'-0" BELOW ADJACENT FINISHED GRADE.
4. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
5. FOR MISPLACED OR MISSING MASONRY FOUNDATION REINFORCING DOWELS OR DOWELS TO EXTERIOR SLAB, PROVIDE POST-INSTALLED REINFORCING DOWELS OF SAME SIZE, CONFIGURATION AND SPACING AS DOWELS REQUIRED IN STRUCTURAL DETAILS AND NOTES. INSTALL DOWELS TO 9" MINIMUM DEPTH USING HILTI HIT-HY 200-A EPOXY ADHESIVE OR SIMPSON STRONG TIE SET XP EPOXY ADHESIVE IN STRICT ACCORDANCE WITH ICC ESR REPORTS (ESR-3187 AND ESR-2508 RESPECTIVELY). SPECIAL INSPECTION DURING DOWEL INSTALLATION IS REQUIRED. IMMEDIATELY PROVIDE WRITTEN NOTIFICATION TO EOR OF LOCATION OF MISSING/REPLACED DOWELS FOR RECORD. FAILURE TO DO SO WILL RESULT IN REMOVAL AND REPLACEMENT OF AFFECTED CONSTRUCTION AT NO COST TO QT.

DIVISION 3 - CONCRETE
1. CONCRETE SHALL MEET THE FOLLOWING:
A. MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS: 4,000 PSI
B. MAXIMUM SLUMP: 4 INCHES.
REFER TO SPECIFICATION SECTION 033000 FOR MAXIMUM WATER/CEMENT RATIOS AND MINIMUM CEMENT CONTENTS.
2. ALL CONCRETE SHALL BE AIR-ENTRAINED. REFER TO SPECIFICATION SECTION 033000 FOR AIR CONTENT.
3. REINFORCING STEEL SHALL MEET THE FOLLOWING:
A. REINFORCING STEEL SHALL MEET ASTM A-615, LATEST REVISION. BARS SHALL BE GRADE 60. (WELDED WIRE FABRIC SHALL MEET ASTM A-185.)
B. REINFORCING BARS SHALL BE SPLICED A MIN. OF 50 BAR DIAMETERS OR 24 INCHES WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE.
C. PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCING IN FOUNDATIONS AND WALLS; CORNER BARS SHALL BE PROPERLY LAPPED AS NOTE IN ITEM 3.B.
4. CONSTRUCTION JOINTS IN TRENCH FOOTINGS SHALL BE PREPARED AS FOLLOWS: EXTEND HORIZONTAL REINFORCING A MINIMUM OF 50 BAR DIAMETERS THROUGH BULKHEAD; AFTER REMOVAL OF BULKHEAD, ROUGHEN THE ENTIRE FORMED SURFACE OF THE FOOTING TO A MINIMUM 1/4" AMPLITUDE AND PROPERLY LAP HORIZONTAL REINFORCING PRIOR TO PLACING CONCRETE.
5. "C..1" INDICATES SAW CUT CONTROL JOINT OR CONSTRUCTION JOINT IN SLAB.
RE: SPECIFICATION SECTION 033000 AS WELL AS DETAILS M8-S501 AND M11-S501.
6. IF REQUIRED, SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT.
RE: DETAIL M11-S501.

DIVISION 3 - CONCRETE (CONT'D)
7. CONTROL AND CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS, NOTED IN THE SPEC OR AS DIRECTED BY THE STRUCTURAL ENGINEER.
8. RESULTS FOR ALL CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR.

DIVISION 4 - MASONRY
1. MASONRY REQUIRES SPECIAL INSPECTION. RE: SHEET S601 AS WELL AS SPECIFICATION SECTION 042200.3.11.
2. MASONRY DESIGN IS BASED UPON COMPRESSIVE STRENGTHS ESTABLISHED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD AS FOLLOWS:
CONCRETE MASONRY UNITS: f'm=1500 PSI.
CLAY MASONRY UNITS: f'm=3000 PSI.
3. MASONRY UNITS SHALL MEET THE FOLLOWING REQUIREMENTS:
CONCRETE MASONRY UNITS: ASTM C90, GRADE N, TYPE I - NET AREA COMPRESSIVE STRENGTH=1900 PSI.
CLAY MASONRY UNITS: ASTM C-652, GRADE SW, TYPE HBS - NET AREA COMPRESSIVE STRENGTH=10,400 PSI.
4. MORTAR SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C-270 FOR TYPE "S" MORTAR.
5. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, BATCHING AND MIXING SHALL MEET THE REQUIREMENTS OF ASTM C-476. ALL MASONRY ACCEPTING POST-INSTALLED ANCHORS MUST BE GROUTED SOLID. EXTENT OF GROUTING AT ANCHORS MUST SATISFY MANUFACTURER'S MINIMUM ANCHOR EDGE DISTANCE REQUIREMENTS.
6. VERTICAL REINFORCEMENT, MATCHING SIZE OF MAIN WALL REINFORCEMENT, SHALL BE LOCATED AT CORNERS OF WALLS, AT EACH JAMB OF OPENINGS, AND ON EACH SIDE OF CONTROL JOINTS. BETWEEN THESE LOCATIONS, VERTICAL REINFORCEMENT SHALL BE SPACED AS INDICATED ON THE DRAWINGS.
7. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING.
8. UNITS SHALL BE LAID TO THE FULL HEIGHT OF THE GROUT POUR AND GROUT SHALL BE PLACED IN LIFTS NOT EXCEEDING 5 FEET. BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING GROUT 1 1/2" BELOW A MORTAR JOINT EXCEPT AT THE TOP OF THE WALL. GROUT POURS GREATER THAN 12 INCHES SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION.
9. RE: SPECIFICATION SECTIONS 042113 AND 042200 FOR FURTHER REQUIREMENTS.

DIVISION 5 -STRUCTURAL STEEL
1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MIN. YIELD STRENGTHS AND SPECIFICATIONS:

		YIELD
A. STEEL SHAPES:	-ASTM A992	50 KSI
B. BARS AND PLATES:	-ASTM A36	36 KSI
C. STRUCTURAL STEEL TUBING:	-ASTM A500 GR. B	46 KSI
D. STRUCTURAL STEEL PIPE:	-ASTM A501, ASTM A53GR. B	35 KSI
E. ANCHOR BOLTS:	-ASTM A307	36 KSI
F. HEADED STUD ANCHORS:	-ASTM A108	50 KSI

2. BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4" DIAMETER ASTM A325 HIGH-STRENGTH BOLTS, UNLESS NOTED OTHERWISE.
3. WELDING SHALL MEET ANSI/AWS D1.1-04 STRUCTURAL WELDING CODE, LATEST REVISION. ELECTRODES SHALL BE E70 SERIES.
4. WELDER CERTIFICATION REQUIRED FOR ALL PERSONS WELDING ON THE JOB.
5. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT DESIGNED OR FULLY DETAILED ON THE CONTRACT DOCUMENTS.
6. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. FILL VOID BENEATH BASE PLATE WITH 5,000 PSI, NON-SHRINK, NON-METALLIC GROUT.
7. PROVIDE L4x4x3/8 FRAME AROUND OPENINGS IN ROOF GREATER THAN 10"x10" UNLESS NOTED OTHERWISE.
8. STEEL BEAMS BEARING ON MASONRY SHALL BEAR ON 1/2"x1 1/2"x0'-7 1/2" STEEL BEARING PLATES WITH (2)-1/2" DIA.x0'-4" HEADED STUD ANCHORS, UNLESS NOTED OTHERWISE. REINFORCE CELLS BELOW THE BEARING PLATE WITH (1)-#5 VERTICAL WITH DOWELS INTO FOUNDATION AND GROUT SOLID.
9. STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH REQUIREMENTS OF THE STEEL JOIST INSTITUTE.
10. STRUCTURAL STEEL FABRICATOR SHALL BE AISC CERTIFIED. OPTIONALLY, FABRICATOR SHALL CLEARLY INDICATE IN HIS BID THAT HIS SHOP IS NON-CERTIFIED AND THE OWNER MUST OBTAIN AND PAY FOR A QUALIFIED SPECIAL INSPECTOR TO PERFORM INSPECTIONS AT THE FABRICATOR'S PREMISES AS REQUIRED BY IBC SECTION 1704.2.
11. STEEL JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE. STEEL JOISTS AND JOIST GIRDERS SHALL CARRY THE DESIGNATIONS AND MEET THE REQUIREMENTS OF THE APPLICABLE STEEL JOIST INSTITUTE SPECIFICATION AND TABLE OF LATEST ADOPTION.
12. ALL STRUCTURAL STEEL AND BAR JOISTS TO HAVE ONE SHOP COAT OF MANUFACTURER'S STANDARD PRIMER. FIELD TOUCH-UP ALL UNPAINTED AND WELD AREAS.
13. 1 1/2", TYPE B STEEL DECK SHALL BE SHOP PAINTED, AND SHALL BE PROVIDED IN SHEETS OF (4) SPAN LENGTHS MINIMUM. 3", TYPE N STEEL DECK SHALL BE GALVANIZED.

DIVISION 6 - LIGHT GAGE STEEL FRAMING
1. DO NOT WELD 20 GAGE AND LIGHTER FRAMING, UNLESS SPECIFICALLY CALLED FOR IN PLANS AND DETAILS.
2. ALL METAL STUDS SHALL MEET THE FOLLOWING EFFECTIVE STRUCTURAL PROPERTIES:

DEPTH	GAGE	SX(IN3)	IX(IN4)	FY(KSI)
6"	18	0.773	2.35	40
4"	18	0.437	0.882	40

3. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDING OF SUFFICIENT SIZE TO INSURE STRENGTH OF CONNECTION. SCREWS SHALL BE BY BUILDEX, INC. OR APPROVED EQUAL. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF AWS D1.3-81, SHEET METAL. AT LOCATIONS WHERE LT. GAGE IS ATTACHED TO STRUCTURAL STEEL USE 145 SHANK DIAMETER POWDER DRIVEN FASTENERS STAGGERED AT 12"O.C.. FLANGE TO FLANGE CONNECTIONS OF MULTIPLE STUDS SHALL BE CONNECTED WITH 1/8" FLARE BEVEL WELDS 2" LONG @ 16"O.C. TYPICAL U.N.O.
4. JOIST AND WALL BRIDGING SHALL BE INSTALLED AND SPACED PER MANUF. WRITTEN RECOMMENDATIONS. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING, UNLESS NOTED OTHERWISE.
5. WELDER CERTIFICATION REQUIRED FOR ALL PERSONS PERFORMING WELDING ON THE JOB. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOBSITE DURING TIMES OF INSPECTION.
6. JOISTS SHALL BE PLACED DIRECTLY OVER BEARING STUDS AND JOIST WEB STIFFENERS SHALL BE PROVIDED AT ALL REACTION POINTS AND AS OTHERWISE SHOWN ON THE DRAWINGS.
7. PROVIDE FULL DEPTH BLOCKING BETWEEN JOISTS AT SUPPORTS WHERE JOIST ARE NOT OTHERWISE RESTRAINED FROM ROTATION.

SHOP DRAWING AND SUBMITTAL REVIEW
1. NORTON & SCHMIDT CONSULTING ENGINEERS, LLC WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO PROPERLY FUNCTION AS AN INTEGRAL ELEMENT OF THE OVERALL STRUCTURAL SYSTEM DETAILED IN THESE DRAWINGS. THIS REVIEW WILL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ERRORS, CORRECTNESS OF DETAILS OR CONFORMANCE WITH THE CONTRACT. THE CONTRACTOR SHALL ALLOW 10 BUSINESS DAYS FOR REVIEW OF ALL STRUCTURAL SUBMITTALS.
2. PRIOR TO SUBMITTAL OF SHOP DRAWINGS OR RELATED SUBMITTALS THE GENERAL CONTRACTOR SHALL:
A. REVIEW EACH SUBMISSION FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
B. REVIEW EACH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
C. IDENTIFY ANY VARIATION FROM THE CONTRACT DOCUMENTS.
D. REVIEW AND APPROVE EACH COMPLIANT SUBMISSION. NON-COMPLIANT SUBMISSIONS SHALL BE RETURNED TO THE SUBCONTRACTOR AND APPROVED SUBMISSIONS SHALL BE STAMPED SUCH.

SHOP DRAWING AND SUBMITTAL REVIEW (CONT'D)
3. THE FOLLOWING IS A LIST OF REQUIRED SHOP DRAWINGS AND RELATED SUBMITTALS. THE GENERAL CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS:
A. CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS.
B. CONCRETE REINFORCING SHOP DRAWINGS, REINFORCING MATERIAL CERTIFICATIONS.
C. MASONRY COMPRESSION TESTS AND MATERIAL CERTIFICATIONS.
D. MASONRY GROUT AND MORTAR MIX DESIGNS.
E. MASONRY REINFORCING SHOP DRAWINGS.
F. STRUCTURAL STEEL SHOP DRAWINGS, MATERIAL CERTIFICATIONS, WELDER CERTIFICATIONS; AISC CERTIFICATION DOCUMENTATION.
G. STEEL JOIST, GIRDER AND STEEL DECK SHOP DRAWINGS, MATERIAL CERTIFICATIONS; SJI MEMBERSHIP AND CONFORMANCE DOCUMENTATION.
H. LIGHT GAGE STEEL FRAMING CALCULATIONS AND SHOP DRAWINGS INCLUDING, STANDARD DETAILS, BRACING AND BRIDGING REQUIREMENTS, MATERIAL AND WELDER CERTIFICATIONS.

ABBREVIATIONS LEGEND

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ACS	ABOVE CONCRETE SLAB
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BFF	BELOW FINISH FLOOR
BFS	BOTTOM OF FOOTING STEP
BL	BLOCK LINTEL
BO	BOTTOM OF
BOS	BOTTOM OF STEEL
BRG	BEARING
CIP	CAST-IN-PLACE CONCRETE
CJ	CONTROL JOINT (WALL)
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA	DIAMETER
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EW	EACH WAY
FDN	FOUNDATION
FF	FINISH FLOOR
FS	FAR SIDE
FTG	FOOTING
GA	GAGE
GC	GENERAL CONTRACTOR
GYP BD	GYPSUM BOARD
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
INFO	INFORMATION
JST	JOIST
JT	JOINT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
PAF	POWDER ACTUATED FASTENERS
PCF	POUNDS PER CUBIC FEET
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
REV	REVERSE
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SDI	STEEL DECK INSTITUTE
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPECS	SPECIFICATIONS
T&B	TOP AND BOTTOM
TFS	TOP OF FOOTING STEP
THK	THICK
TO	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOGB	TOP OF GRADE BEAM
TOM	TOP OF MASONRY
TOP	TOP OF PAVING
TOS	TOP OF STEEL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDTH
WP	WORK POINT
WS	WALL STEP
WWF	WELDED WIRE FABRIC

SPECIAL INSPECTIONS - 2018 IBC

SCOPE OF WORK	INSPECTION TASK	FREQUENCY OF INSP. CONTINUOUS	FREQUENCY OF INSP. PERIODIC	BUILDING CODE REFERENCE
SOILS	FOOTING DEPTH & DESIGN BEARING CAPACITY		X	IBC 1705.6
	CLASSIFICATION AND TESTING OF FILL MATERIALS		X	IBC 1705.6
	FILL PLACEMENT / COMPACTION	X		IBC 1705.6
	SUBGRADE & SITE PREPARATION		X	IBC 1705.6
	CONFIRM THAT BUILDING SLAB CRUSHED ROCK SUBGRADE HAS BEEN COMPACTED WITH VIBRATORY PLATE COMPACTOR	X		N/A
CONCRETE	REINFORCING STEEL & PLACEMENT		X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3, IBC 1908.4
	ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE		X	ACI 318: 17.8.2
	VERIFY USE OF REQ'D DESIGN MIX		X	ACI 318: CH. 19, 26.4.3, 26.4.4 & IBC 1904.1, 1904.2, 1908.2 & 1908.3
	CONCRETE SAMPLING	X		ASTM C172, C31; ACI 318: 26.5, 26.12 & IBC 1908.10
	CONCRETE PLACEMENT	X		ACI 318: 26.5 & IBC 1908.6, 1908.7 & 1908.8
	CURING TEMPERATURE & TECHNIQUES		X	ACI 318: 26.5.3-26.5.5 & IBC 1908.9
	INSPECT FORMWORK		X	ACI 318: 26.11.1.2(b)
MASONRY	PROPORTIONS OF SITE-PREPARED MORTAR		X	IBC 1705.4; 2016 TMS 402/602
	GRADE, TYPE AND SIZE OF REINFORCEMENT		X	IBC 1705.4; 2016 TMS 402/602
	GROUT SPACES		X	IBC 1705.4; 2016 TMS 402/602
	LOCATION OF REINF. AND CONNECTORS		X	IBC 1705.4; 2016 TMS 402/602
	GROUT PROPORTIONS		X	IBC 1705.4; 2016 TMS 402/602
	MATERIALS MATCH SUBMITTALS		X	IBC 1705.4; 2016 TMS 402/602
	PLACEMENT OF MAS. UNITS & MORTAR JOINT CONSTRUCTION		X	IBC 1705.4; 2016 TMS 402/602
	SIZE AND LOCATION OF STRUCTURAL MEMBERS		X	IBC 1705.4; 2016 TMS 402/602
	TYPE, SIZE AND LOCATION OF ANCHORS		X	IBC 1705.4; 2016 TMS 402/602
	TEMPERATURE PROTECTION		X	IBC 1705.4; 2016 TMS 402/602
	PLACEMENT OF REINF. AND CONNECTORS		X	IBC 1705.4; 2016 TMS 402/602
	PLACEMENT OF GROUT	X		IBC 1705.4; 2016 TMS 402/602
	PREPARATION OF TEST SPECIMENS		X	IBC 1705.4; 2016 TMS 402/602
	POST-INSTALLED ANCHORS	X		PER ICC REPORT REQUIREMENTS
STEEL	FABRICATION (NOT REQ'D IF FABRICATOR AISC CERTIFIED)		X	IBC 1705.2.1; AISC 360: CH. N
	BOLTING	AISC 360: CH. N, TABLES N5.6-1, N5.6-2 & N5.6-3		IBC 1705.2.1
	WELDING	AISC 360: CH. N, TABLES N5.4-1, N5.4-2 & N5.4-3		IBC 1705.2.1
	COLD-FORMED STEEL DECK	SDI QA/QC APPENDIX 1.		IBC 1705.2.2
	OPEN-WEB STEEL JOISTS - (WELDED OR BOLTED) END CONNECTIONS & HORIZONTAL OR DIAGONAL BRIDGING		X	IBC 1705.2.3
	ERECTION		X	IBC 1705.2.1; AISC 360: CH. N6.8

A QUALIFIED SPECIAL INSPECTOR WILL BE RETAINED BY THE OWNER TO COMPLETE SPECIAL INSPECTIONS PRIOR TO AND DURING CONSTRUCTION TO CONFORM WITH THE REQUIREMENTS OF THE BUILDING CODE AND THE LOCAL CODE AUTHORITIES. ITEMS REQUIRING SPECIAL INSPECTIONS ARE TABULATED ABOVE. REFER TO CODE CHAPTER 17 FOR SPECIFIC REQUIREMENTS FOR EACH INSPECTION TASK.

COPIES OF PERIODIC AND FINAL SPECIAL INSPECTION REPORTS AND ANY ACCOMPANYING DATA SHALL BE SENT DIRECTLY FROM APPROVED TESTING AND INSPECTION AGENCY TO STRUCTURAL ENGINEER OF RECORD IMMEDIATELY AFTER PREPARATION - NO EXCEPTIONS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/07/2025

RODNEY W. SOMMER - P.E.
MO# 020991

SIGNATURE DATE: 11/25/24

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GENERAL INFORMATION

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STORE

123'-6" OUT TO OUT GUTTER

13'-9" | 32'-0" | 32'-0" | 32'-0" | 13'-9"

A | B | C | D

1 | 2

9'-0" | 40'-0" | 9'-0"

58'-0" OUT TO OUT GUTTER

RE: EI-XC301
FOR SPECIAL FOOTING CONSIDERATIONS

SW 3rD STREET

SW 2nd STREET

SW BLUE PARKWAY

NORTH

E1 COLUMN & FOOTING LOCATIONS

3/16" = 1'-0"

1. ALL FOUNDATION WORK BY OTHERS AND SUBJECT TO LOCAL APPROVAL.
2. THE FOUNDATION DESIGN IS BASED UPON SECTION 1807.3.2.2-IBC 2018 EDITION. THE DESIGN CRITERIA SELECTED ASSUMES: SITE CLASS D MATERIAL OR BETTER, SOIL BEARING CAPACITY OF 2,000 p.s.f. AND A PASSIVE SOIL PRESSURE OF 150 p.s.f. PER FOOT OF DEPTH.
3. DRILLED SHAFT FOOTINGS SHALL BE INSTALLED PER ACI STD. 336.
4. CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI STANDARD 318-14 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (f'c) AT THE END OF 28 DAYS SHALL BE 4000 PSI MIN.
6. REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 LATEST REVISION.
7. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING BARS SHALL COMPLY WITH ACI 315, ACI 318 AND CRSI STANDARDS.
8. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554-GR36.
9. LANE IS NOT RESPONSIBLE FOR FOOTINGS POURED PRIOR TO PERMITTING.
10. FOOTINGS ARE DESIGNED TO BE CONSTRAINED AT THE TOP BY A 6" SLAB. IF THEY ARE NOT, PLEASE NOTIFY LANE SUPPLY CO.
11. G.C. TO CONFIRM FOOTINGS HAVE BEEN POURED ACCORDING TO VERIFIED CIVIL DRAWINGS.
12. USE MASTER FLOW 928 NON-SHRINK GROUT OR EQUIVALENT F'm=5000 p.s.i.
13. G.C. TO ENSURE THAT FOOTINGS DO NOT INTERFERE WITH CONTAINMENT SUMP.
14. G.C. TO PREVENT WATER FROM STANDING IN FOOTING EXCAVATIONS.

NOTE: FOR FOOTINGS WITHIN 15'-0" TO TANK HOLE EXCAVATION - DEEPEN FOOTINGS TO EXTEND 4'-0" BELOW BOTTOM OF TANK EXCAVATION RE: EI-XC301

A1 FOOTING NOTES

NO SCALE

1. IT IS THE OWNERS RESPONSIBILITY TO CONVEY TO ALL CONTRACTORS THAT IT IS THEIR RESPONSIBILITY TO ENSURE THAT THE SITE IS PROPERLY EXCAVATED AND GRADED. DURING CONCRETE FORMING PRIOR TO AND AFTER THE POUR, THE CONCRETE SHOULD BE CHECKED FOR PROPER ELEVATION, SQUARE AND CORRECT DIMENSIONS.
2. CORRECTION OF LOCATION, OF ELEVATION AND OF DIMENSIONAL ERRORS MUST BE MADE PRIOR TO THE ARRIVAL OF THE ERECTION CREW AND PRIOR TO THE ERECTION OF THE STRUCTURE.
3. AFTER THE FORMS HAVE BEEN REMOVED, ALL TRENCHES, HOLES AND UNEVEN SITE CONDITIONS MUST BE LEVELED TO ENSURE A SAFE WORKING AND ACCESS AREA ACCEPTABLE TO LOCAL, STATE, FEDERAL AND OSHA AGENCIES.

A4 GENERAL NOTES

NO SCALE

A7 NOT USED

NO SCALE

XXX-XXXX

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, H = 1.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

A15 DESIGN LOADS

NO SCALE

STATE OF MISSOURI
RICHARD A. CASKEY
E-2001014393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

LANE SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

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COLUMN & FOOTING LOCATIONS

SHEET NUMBER:
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As Noted on Plans Review
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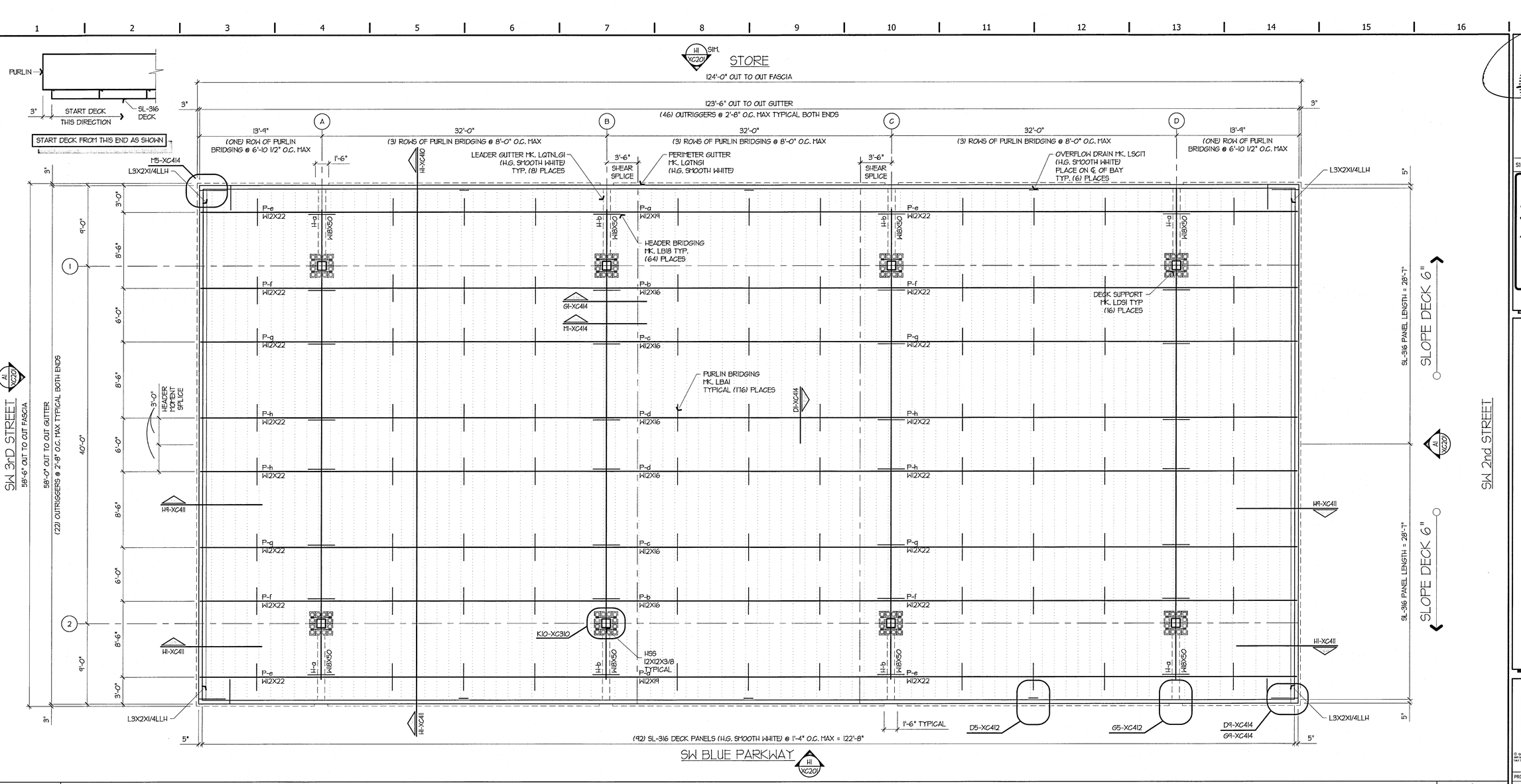
Lee's Summit, Missouri
03/10/2025



E1 CANOPY FRAMING PLAN

3/16" = 1'-0"

NORTH

STRUCTURAL STEEL SHALL MEET THE AISC 2017 SPECIFICATION 15TH EDITION AND THE AISC CODE OF STANDARD PRACTICE, CURRENT VERSION.
STRUCTURAL STEEL PIPE TO BE ASTM A500 GRADE B
TUBE STEEL TO BE ASTM A500, GRADE B
BOLTS TO BE ASTM A325 OR ASTM F1852 (A325-TC)
INSTALLATION OF BOLTS MUST CONSIST OF ONE OF THE FOLLOWING:
1. TURN OF THE NUT METHOD:
A) SEE SNUG TIGHTENING CRITERIA AT-XC120.
B) MARK NUT AND WASHER THEN TURN NUT AS FOLLOWS:
UP TO 3 IN. LENGTH = 1/3 TURN
UP TO 6 IN. LENGTH = 1/2 TURN
2. LOAD INDICATING WASHER:
A) SEE DETAIL COMPRESSION WASHER SPECIFICATION
3. TWIST-OFF BOLTS:
A) ALL BOLTS SHALL HAVE A HARDENED WASHER UNDER THE NUT
B) ALL BOLTS IN THE ASSEMBLY SHALL BE BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO TWISTING OFF SPLINE(S).
C) ALL BOLTS IN THE JOINT SHALL BE PRETENSIONED WITH THE TWIST-OFF-TYPE TENSION-CONTROL BOLT INSTALLATION WRENCH SEVERING THE SPLINE
WIDE FLANGE BEAMS TO BE ASTM A992
ANGLES, & PLATES TO BE ASTM A36
REINFORCING STEEL TO BE ASTM 615, GRADE 60
DECK PANELS TO BE ASTM 653, GRADE D MINIMUM
WELDING SHALL MEET THE REQUIREMENTS OF THE AWS FOR BUILDING CONSTRUCTION USING E70XX ELECTRODES
ALL STRUCTURAL STEEL TO BE PAINTED WITH ONE SHOP COAT PRIMER

A1 GENERAL NOTES

NO SCALE

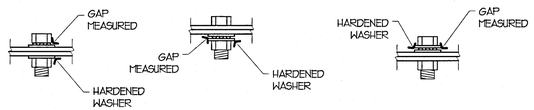
1. CAULK ALL GUTTER JOINTS DURING INSTALLATION AND APPLY SEALANT TO TOP SIDE OF ALL GUTTER JOINTS AFTER INSTALLATION USE ROOFSEAL TAPE AT ALL GUTTER SEAMS. (RE: AII-XC120 FOR SEALANT SCHEDULE)
2. CAULK ALL JOINTS BETWEEN GUTTERS AND DECK AND BETWEEN COLUMNS AND DECK WITH A SMOOTH, CLEAN APPLICATION
3. APPLY SEALANT AROUND THE COLUMNS ON THE TOP SIDE AFTER ALCOHOL PREP OF THE COLUMN. (RE: AII-XC120 SEALANT SCHEDULE)
4. DECK PANELS AND TRIM WILL BE WIPED CLEAN AFTER INSTALLATION
5. ALL TRASH AND EXTRA MATERIALS WILL BE HAULED OFF JOBSITE
6. CHECK WITH GENERAL CONTRACTOR FOR DRAIN ORIENTATION
7. INSTALL CUST. FURNISHED RED LIGHT BAND ON ALL (4) SIDES OF CANOPY.
8. CANOPY TO HAVE QT BRONZE BREAKS AT ALL COLUMNS.
9. CUT HOLES ONLY FOR CUSTOMER FURNISHED LIGHTS.
10. FURNISH AND INSTALL VENT PIPES AS REQUESTED BY QUIKTRIP.
11. FURNISH (11) EACH AT QT ACCESS DOORS FOR BRICK COLUMNS.

A4 ERECTOR'S NOTES

NO SCALE

A7 COMPRESSION WASHER SPECIFICATION

NO SCALE



INSTALLATION NOTES: (FOR WASHERS WITH PLAIN FINISH)
1. FLAT FACE OF COMPRESSIBLE WASHER MUST BE PLACED AGAINST ASSEMBLED PARTS.
2. AFTER BOLTS ARE FULLY TIGHTENED, GAP MUST BE NO MORE THAN .015" FOR OPTION "A" & .005" FOR OPTIONS "B" AND "C".

SNUG BOLT TIGHTENING CRITERIA:
BOLTS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION-DEFINED AS THE CONDITION THAT EXISTS WHEN ALL OF THE PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

A11 INSTALLER NOTES

NO SCALE

SIGNS, LOCATIONS, NUMBER, & SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT, A SEPARATE PERMIT IS REQUIRED FOR EACH SIGN. RE: PLAN DEVELOPMENT REVIEW FOR REVIEW AND APPROVAL OF ALL SIGNAGE. RE: E13-XC414 FOR SIGN SUPPORT

DOUBLE UP O.R.'S @ LAST PURLIN CLOSEST TO BLDG FOR LADDER SUPPORT TYP. @ EA. END OF CANOPY.

INSTALLER NOTE:
DOUBLE DECK CLIP OUTSIDE PURLINS & CANOPY OVERHANGS TO THE FIRST HEADER.

OVERFLOWS WHICH ARE DIRECTLY OVER TANK HOLE CAPS, MOVE 3'-0"

SEALANT SCHEDULE

SEALANT	COLOR	APPLICATION
SOUDASEAL FC	WHITE	GUTTER, CENTER GUTTER, & LEADERS TO DECK
SOUDASEAL FC	WHITE	GUTTER JOINTS, RE: DII-XC414
SOUDASEAL FC	WHITE	GUTTER CLEAT
SOUDASEAL FC	WHITE	ALUMINUM GUTTER DROPOUT
SOUDASEAL FC	WHITE	TOP COLUMN SEALANT
SOUDASEAL FC	WHITE	PVC TO COLUMN
CONSTRUCTION	CLEAR	TOP AND BOTTOM OF EXTRUSION

A15 DESIGN LOADS

NO SCALE

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, W = 7.26 ft, Pd = 24.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

STATE OF MISSOURI
RICHARD J. SKEY
E-2007036393
REGISTERED PROFESSIONAL ENGINEER
C.O.A.: 2001015838
SIGNATURE DATE: 11-22-2024

I AM IC SUPPLY, INC.
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ARLINGTON, TX. 76010
(817) 261-9116
LSC#78950

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QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

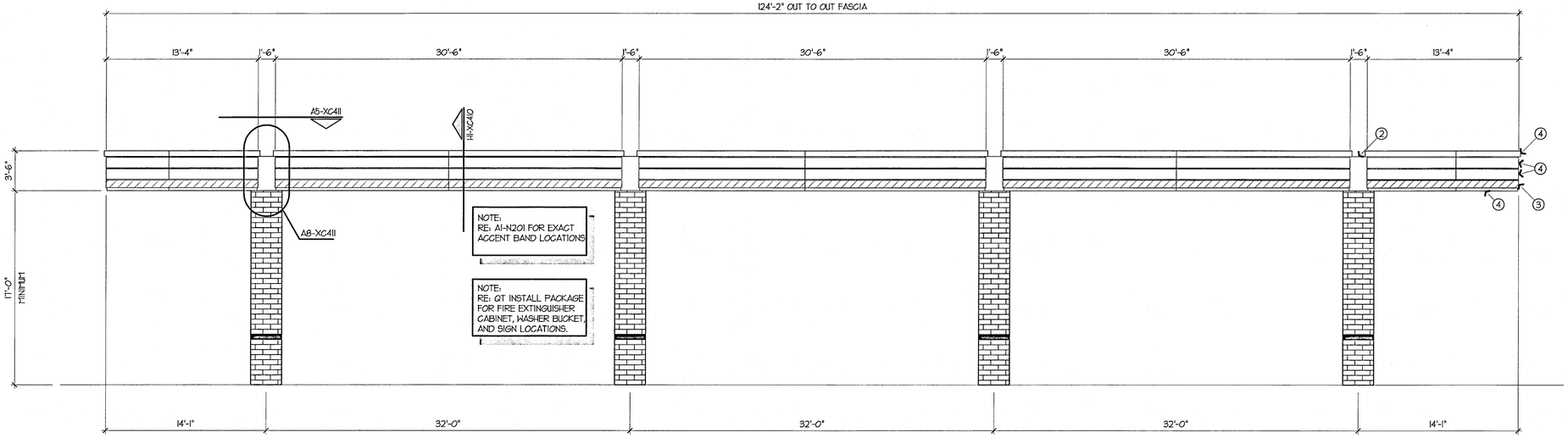
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:
CANOPY FRAMING PLAN

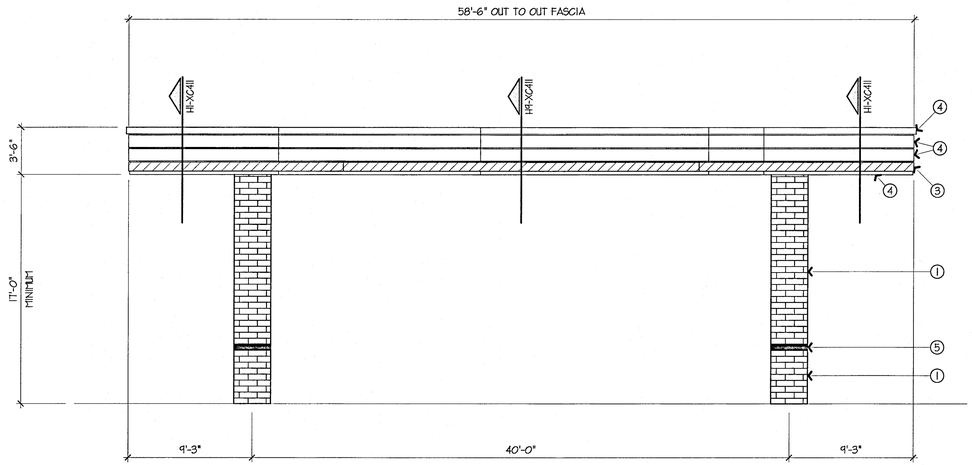
SHEET NUMBER:
XC120

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



H1 ELEVATION OF CANOPY SIDE

3/16" = 1'-0" | E1-XC120



	FINISH	MANUFACTURER	SPECIFICATION
1	BRONZESTONE	INTERSTATE BRICK	ATLAS STRUCTURAL BRICK
2	DARK BRONZE	LANE	METAL/PAINT
3	RED POLYCARBONATE	ALLEN INDUSTRIES	ILLUMINATED BAND
4	HLZ-ALUMINUM	APOLLO	CANOPY
5	MIDNIGHT BLACK	INTERSTATE BRICK	ATLAS STRUCTURAL BRICK

A1 ELEVATION OF CANOPY END

3/16" = 1'-0" | E1-XC120

STATE OF MISSOURI
RICHARD MCCASKEY
E-2001016393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:

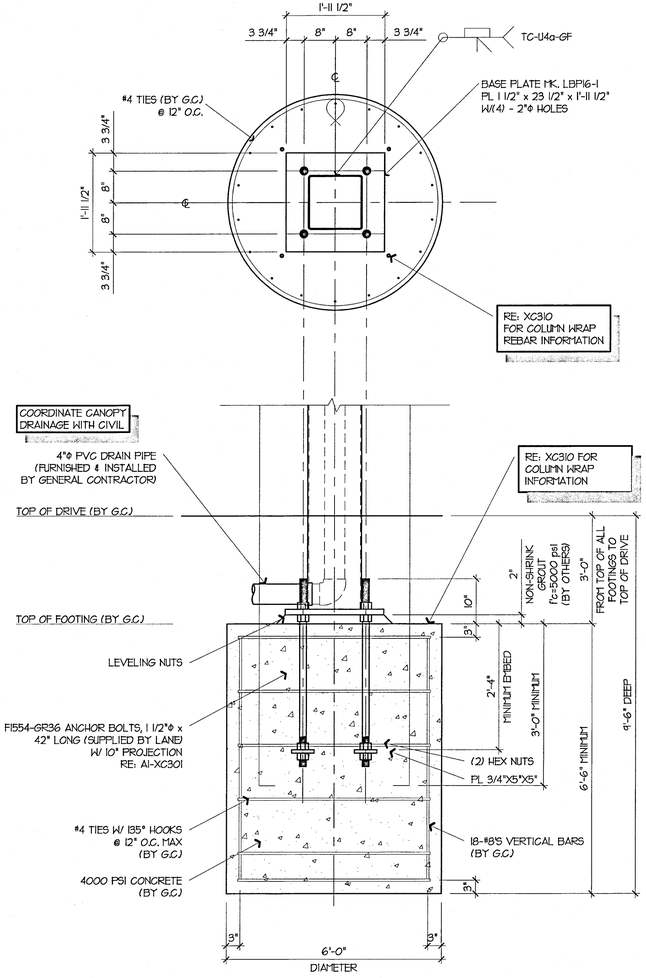
CANOPY ELEVATION

SHEET NUMBER:

XC201

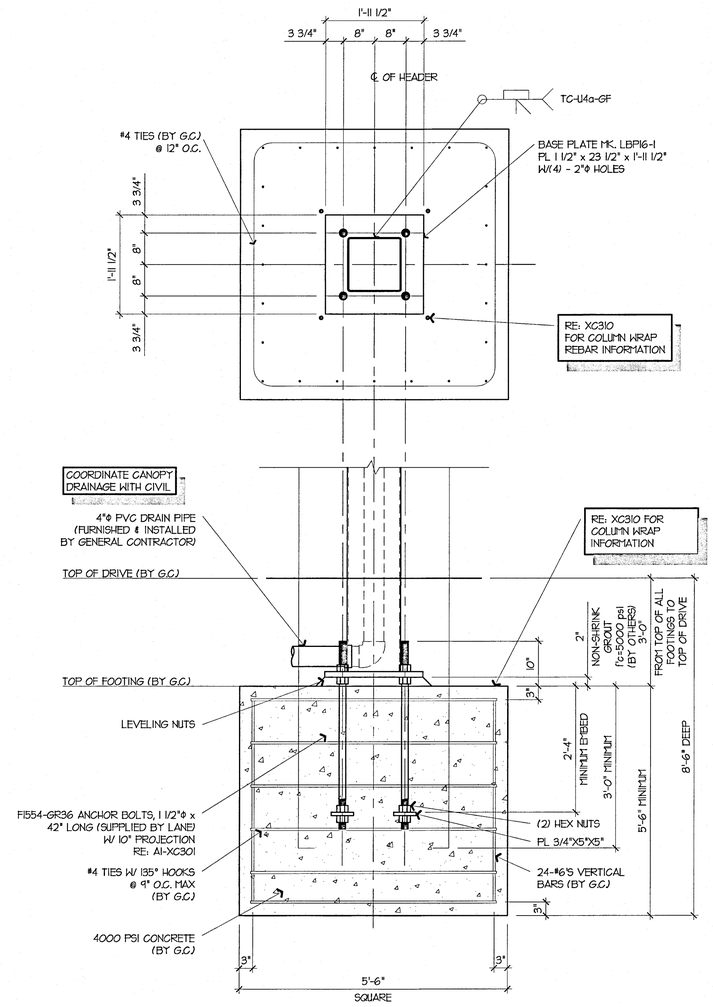
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
City of Lee's Summit, Missouri
03/10/2025

NOTE: FOR FOOTINGS WITHIN 15'-0" TO TANK HOLE EXCAVATION - DEEPEN FOOTINGS TO EXTEND 4'-0" BELOW BOTTOM OF TANK EXCAVATION



E1 ROUND FOOTING OPTION

N.T.S. | E1-XC110

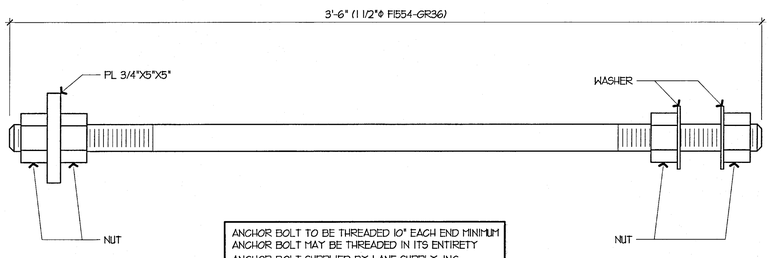


E6 SQUARE FOOTING OPTION

N.T.S. | E1-XC110

E12 NOT USED

N.T.S. | XXX-XXXX



A1 ANCHOR BOLT DETAIL

3" = 1'-0" | E1-XC301, E6-XC301

A7 NOT USED

NO SCALE | XXX-XXXX

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, W = 7.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

A15 DESIGN LOADS

NO SCALE | .

STATE OF MISSOURI
RICHARD S. JASKEY
E-2000164393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

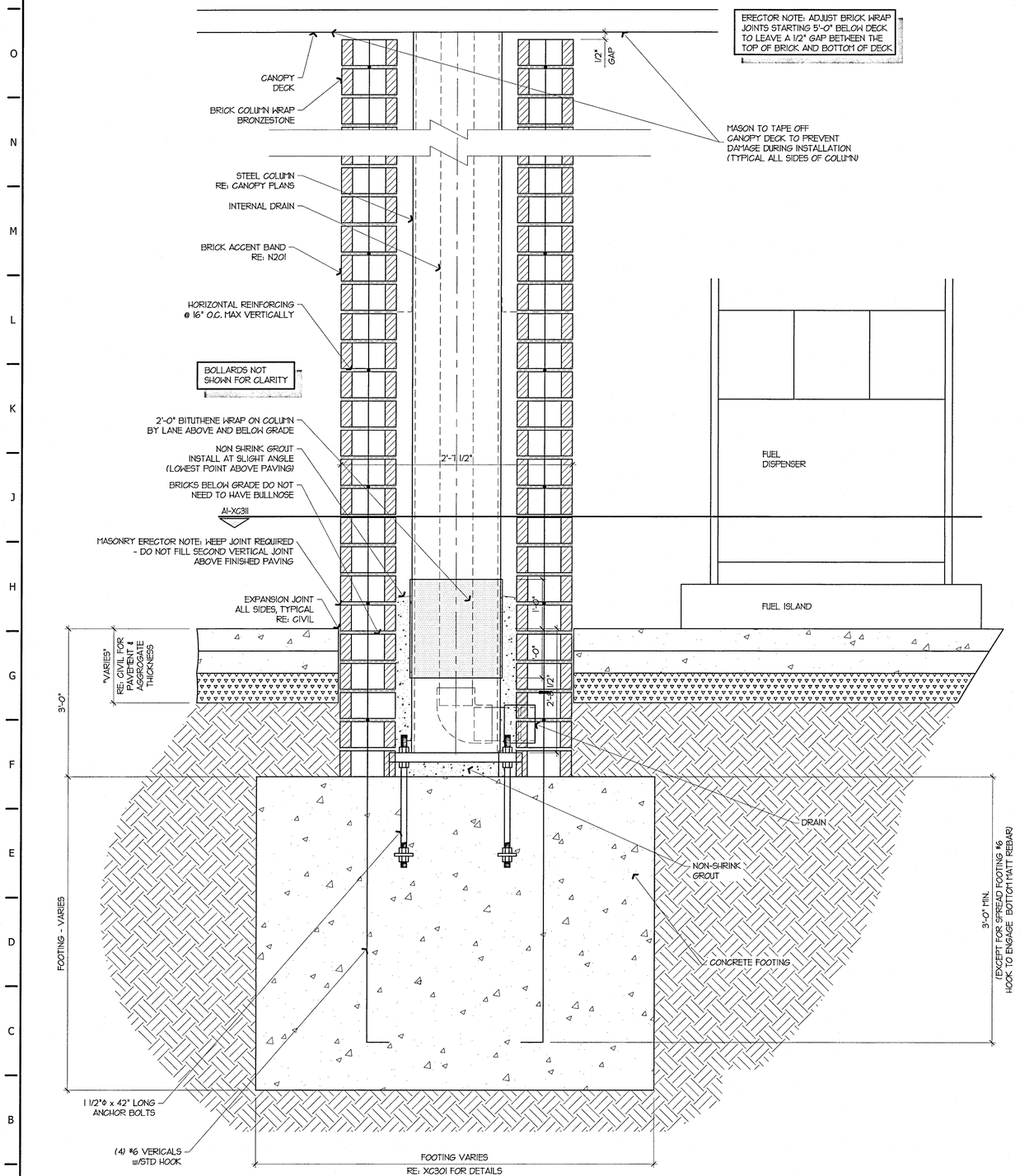
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:
CANOPY FOOTING DETAILS

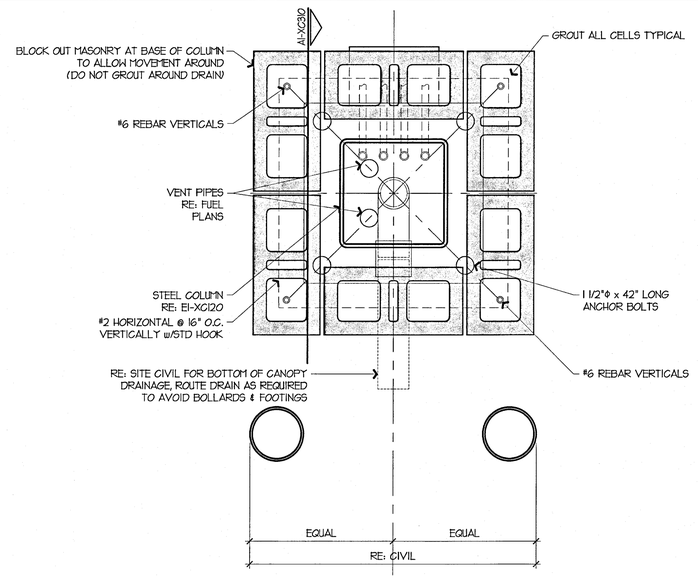
SHEET NUMBER:
XC301

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



A1 COLUMN SECTION

N.T.S. | K10-XC310



K10 COLUMN SECTION

1 1/2" = 1'-0" | E1-XC120.

G10 MATERIAL NOTES

NO SCALE

1. PORTLAND CEMENT: ASTM C150, TYPE I, NATURAL
2. MASONRY CEMENT: ASTM C91, PREMIXED "ME, AS MANUFACTURED BY LEHIGH PORTLAND CEMENT COMPANY, TYPE S.
3. LIME: HYDRATED LIME, ASTM C207, TYPE S, FREE FROM CALCIUM SULFATE.
4. SAND FOR MORTAR: ASTM C144, WASHED, NATURAL.
5. AGGREGATE FOR GROUT: ASTM C404, MAXIMUM AGGREGATE SIZE 3/8", WASHED.
6. WATER: CLEAN AND POTABLE, FREE OF HARMFUL AMOUNTS OF ACIDS, ALKALINE, ORGANIC MATERIALS AND SALTS.
7. MORTAR FOR UNIT MASONRY: ASTM C270, TYPE S, WITH DRY BLOCK ADDITIVE, PROPORTIONED AS FOLLOWS:
   a) EXPOSED COLOR MORTAR: ONE PART MASONRY CEMENT, 3 PARTS SAND AND WATER TO PRODUCE A WORKABLE CONSISTENCY.
   b) ALL OTHER MORTAR: ONE PART CEMENT, 1/8 PART LIME, 3 PARTS SAND AND WATER TO PRODUCE A WORKABLE CONSISTENCY.
8. GROUT FOR UNIT MASONRY: ASTM C476, PROPORTIONS BY VOLUME: ONE PART CEMENT, 1/10 PART LIME, 3 PARTS SAND, 2 PARTS AGGREGATE, DRY BLOCK ADDITIVE AND WATER TO PRODUCE WORKABLE CONSISTENCY, MAXIMUM SLUMP 6 TO 7 INCHES.

A10 INSTALLATION NOTES

NO SCALE

1. INSTALL (LAY) MASONRY UNITS IN THE BOND PATTERN INDICATED, OR IF NONE IS INDICATED, IN RUNNING BOND, WITH 1/2" MASONRY JOINTS.
2. CUT EXPOSED MASONRY UNITS, WHERE NECCESSARY, WITH A POWER SAW. AVOID THE USE (BY PROPER LAYOUT) OF LESS-THAN-HALF-SIZE UNITS.
3. HOLD UNIFORM JOINT SIZES AS INDICATED, OR IF NOT INDICATED, HOLD JOINT SIZES TO SUIT MODULAR SIZE OF MASONRY UNITS.
4. CUT JOINTS FLUSH AND TOOL SLIGHTLY CONCAVE, UNLESS OTHERWISE INDICATED.
5. INSTALL CONTROL AND EXPANSION JOINTS AT LOCATIONS SHOWN, AND KEEP CLEAN OF MORTAR DROPPINGS.
6. BUILD OTHER WORK INTO THE MASONRY WORK AS SHOWN, FITTING MASONRY UNITS AROUND OTHER WORK, AND GROUTING FOR SECURE ANCHORAGE. PROTECT NEWLY LAID MASONRY FROM EXPOSURE TO PRECIPITATION, EXCESSIVE DRYING, FREEZING, SOILING BACKFILL AND OTHER ELEMENTS. (TOP OF MASONRY WALLS SHALL BE COVERED WHEN INCLEMENT WEATHER IS ANTICIPATED)
7. DRY-BRUSH MASONRY WORK AT END OF EACH DAY'S WORK.
8. CLEAN EXPOSED FACE OF MASONRY WITH SURE KLEAN 600 99 MANUFACTURED BY PROCESS SOLVENTS CO. MIX AND APPLY SURE KLEAN IN ACCORDANCE WITH MANUFACTURE'S PRINTED INSTRUCTIONS. ALL MORTAR AND CONCRETE SHALL BE ALLOWED TO CURE PRIOR TO CLEANING. ADEQUATE WATER SUPPLY SHALL BE AVAILABLE TO ASSURE THOROUGH PRESOAKING PRESSURE SPRAY (PRESSURE NO TO EXCEED 50 PSI).
9. GROUT REINFORCED MASONRY AS FOLLOWS:
   a) VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT, SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONTINUOUS CELL MEASURING NOT LESS THAN 2 INCHES BY 3 INCHES.
   b) ALL CELL CONTAINING REINFORCEMENT AND AS NOTED SHALL BE FILLED SOLIDLY WITH GROUT. GROUT SHALL BE CONSOLIDATED BY PUDDLING OR MECHANICAL VIBRATION DURING PLACEMENT AND RE-CONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY IS LOST.
   c) WHERE GROUT POUR EXCEEDS 4 FEET IN HEIGHT, CLEANOUTS SHALL BE PROVIDED BY SUITABLE OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE GROUTED. THE CLEANOUT SHALL BE SEALED AFTER CLEANOUT, INSPECTION, AND BEFORE GROUTING.
   d) WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT APPROXIMATELY 1 1/2 INCH ABOVE OR BELOW A BED JOINT.
   e) ALL REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT EXCEEDING 8'-0".

A15 DESIGN LOADS

NO SCALE

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, W = 7.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

STATE OF MISSOURI
RICHARD ASKEY
E-2100164393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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LSC#78950

QuikTrip No. 0183R

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	GSSE
DATE	11-25-2024

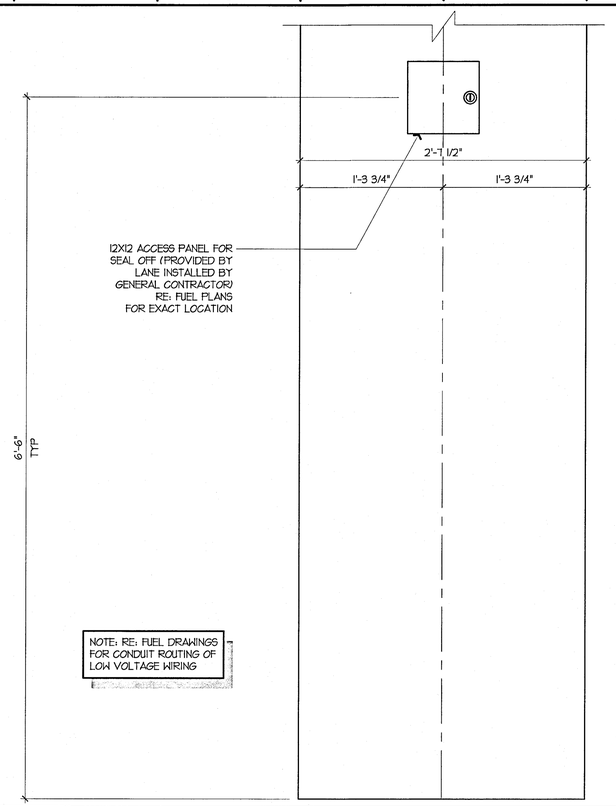
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:
COLUMN WRAP DETAILS

SHEET NUMBER:
XC310

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



H1 NOT USED

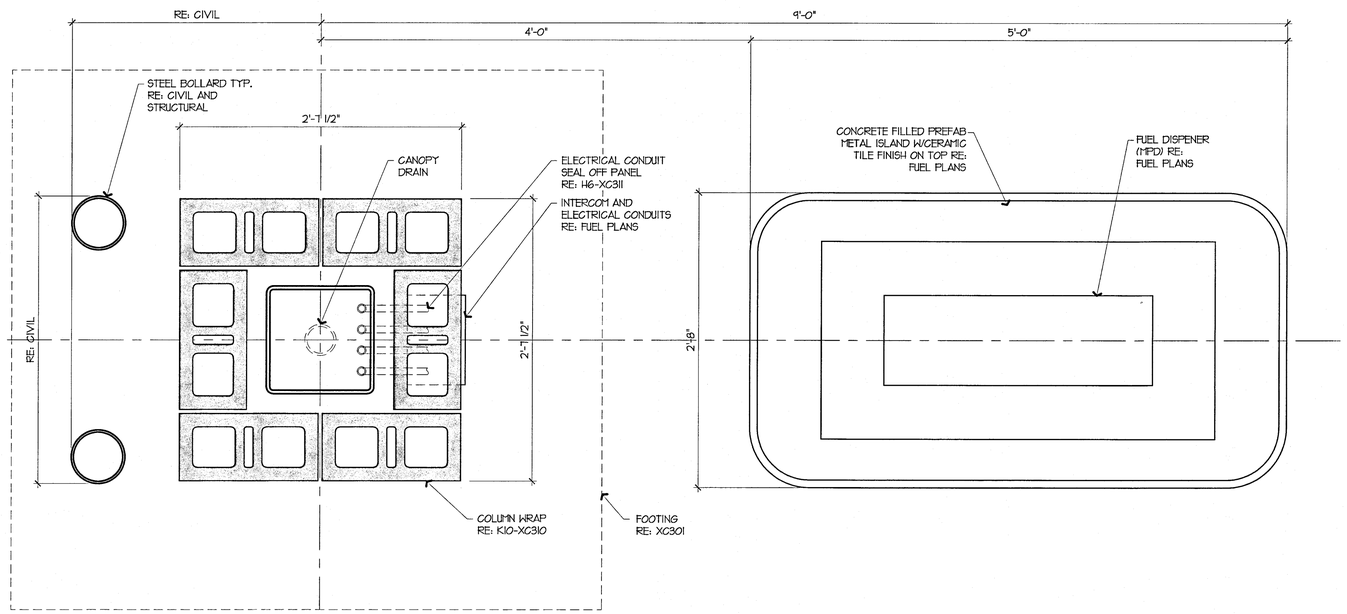
NO SCALE | XXX-XXXX

H6 COLUMN ELEVATION (MATERIAL NOTES)

1 1/2" = 1'-0" | A1-XC311

H12 NOT USED

NO SCALE | XXX-XXXX



A1 FUEL ISLAND PLAN

1 1/2" = 1'-0" | A1-XC310

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM- ORDINARY STEEL MOMENT FRAME
PF = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, H = 7.126 ft, Fd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

A15 DESIGN LOADS

NO SCALE

STATE OF MISSOURI
RICHARD D. CASKEY
E-2000164393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

LANE BUILDING SUPPLY, INC.
120 FAIRVIEW
ARLINGTON, TX. 76010
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LSC#78950

QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

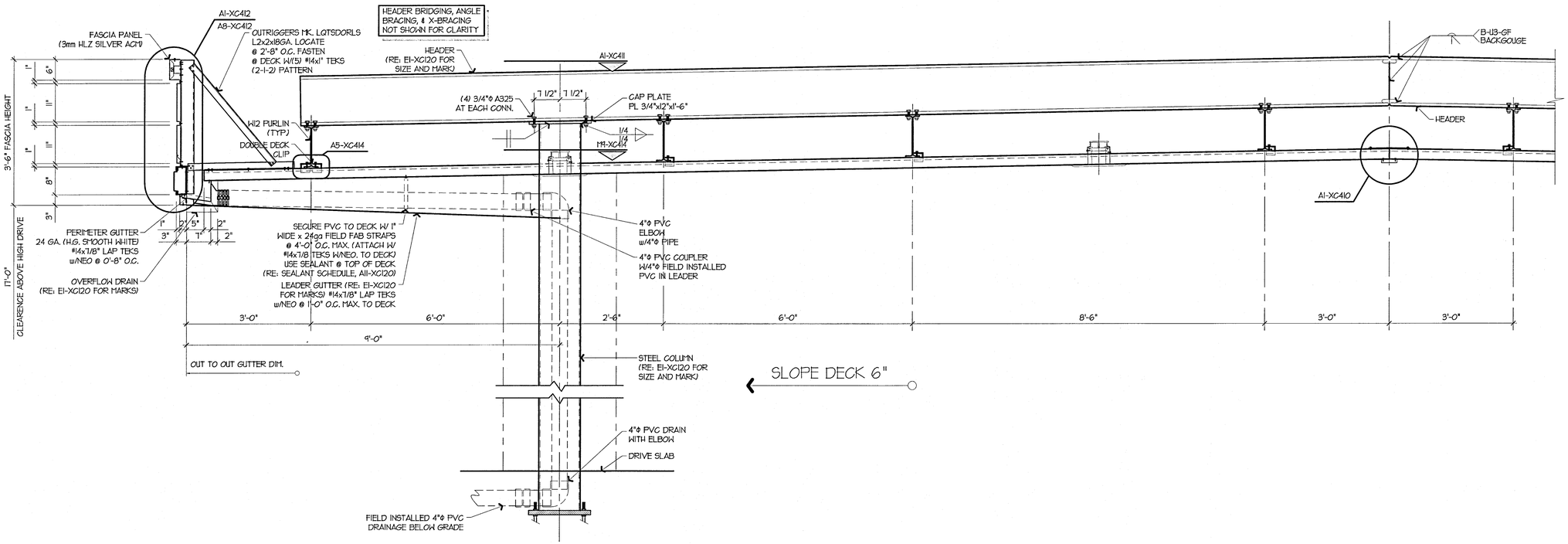
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:
COLUMN WRAP DETAILS

SHEET NUMBER:
XC311

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lees Summit, Missouri
03/10/2025

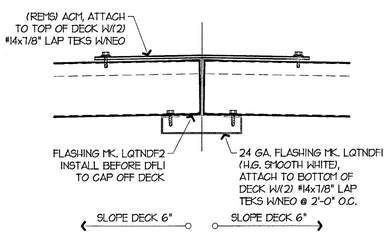


H1 — SECTION AT CANOPY SIDES

3/4" = 1'-0" | E1-XC120, H1-XC201

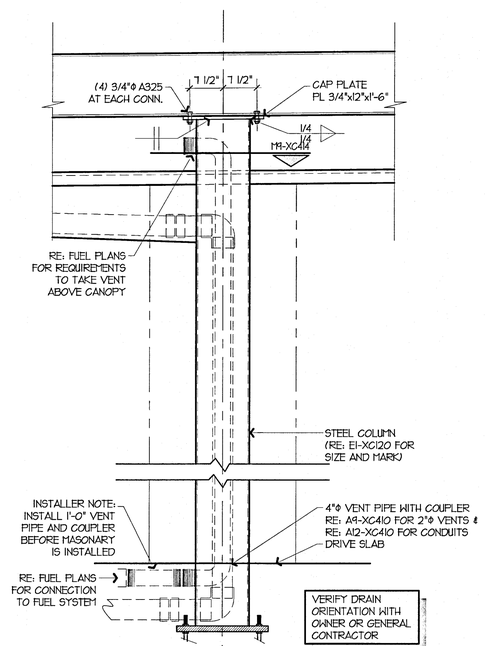
D1 — NOT USED

N.T.S. | XXX-XXXX



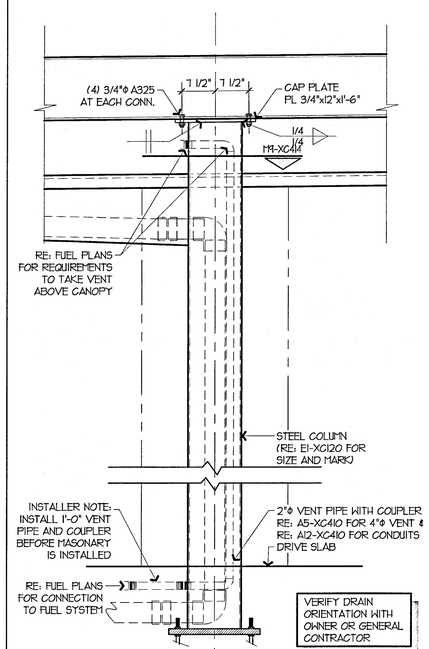
A1 — DECK TRIM AND FLASHING SECTION

3" = 1'-0" | H1-XC410



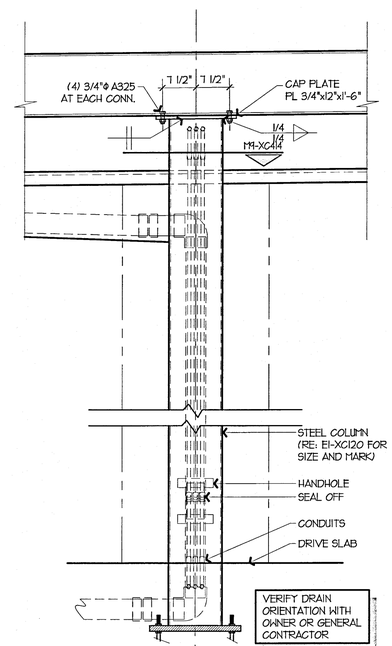
A5 — SECTION AT COLUMN (4"ø VENTS)

3/4" = 1'-0" | H1-XC410



A9 — SECTION AT COLUMN (2"ø VENTS)

1 1/2" = 1'-0" | H1-XC410



A12 — SECTION AT COLUMN (CONDUITS)

1 1/2" = 1'-0" | H1-XC410

E15 — NOT USED

N.T.S. | XXX-XXXX

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, W = 7.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

A15 — DESIGN LOADS

NO SCALE | .

STATE OF MISSOURI — RICHARD D. KOWALSKEY — E-2000164393 — REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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ARLINGTON, TX. 76010
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QuikTrip No. 0183R

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

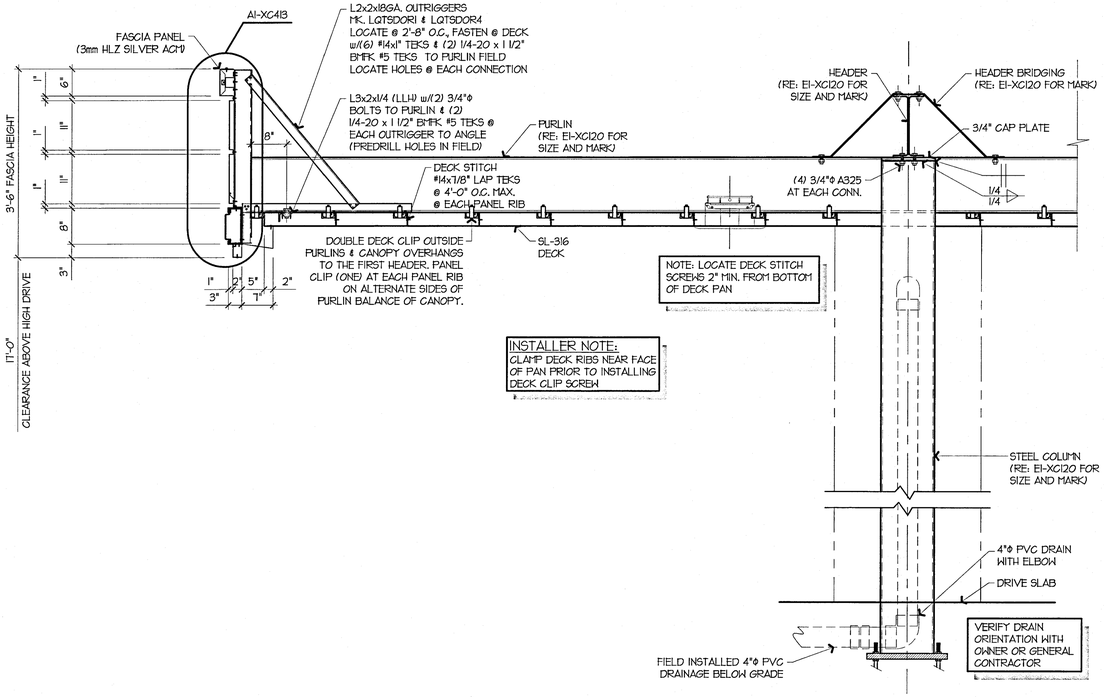
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE: SECTIONS

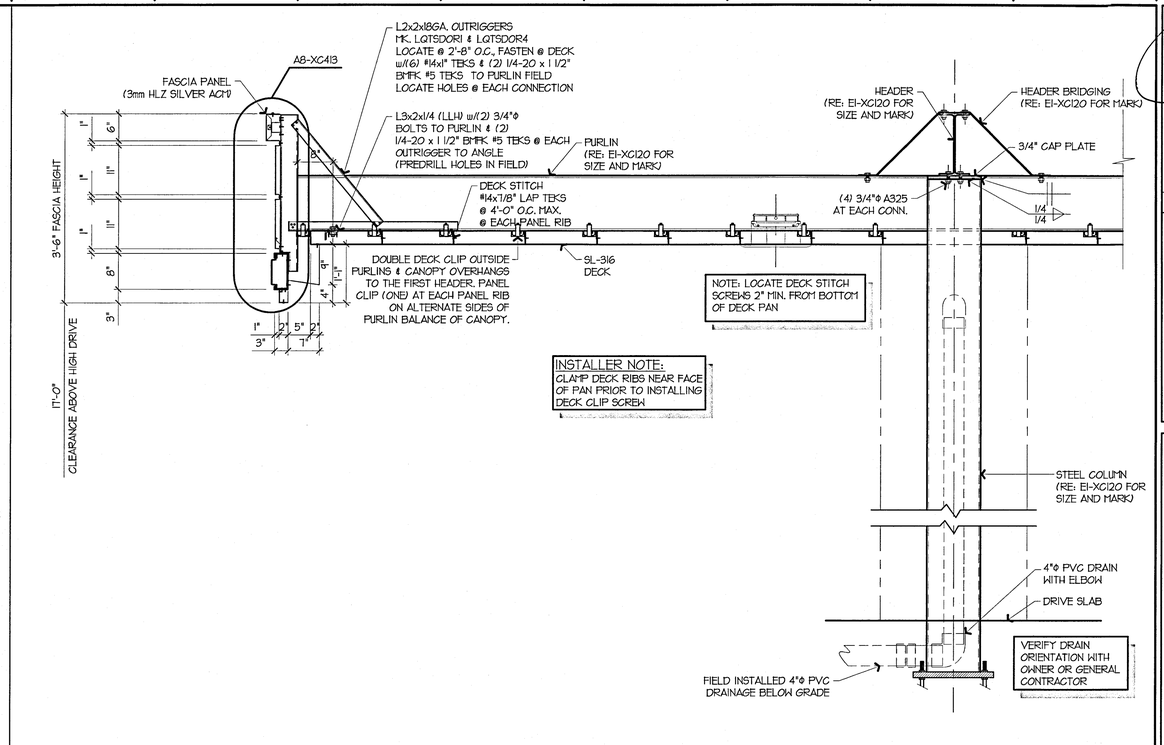
SHEET NUMBER: XC410

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



H1 SECTION AT CANOPY (LOW CORNER)

3/4" = 1'-0" | E1-XC120, H1-XC201

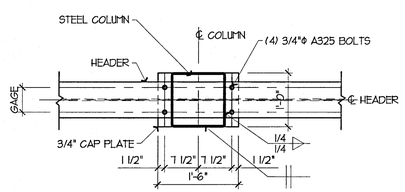


H9 SECTION AT CANOPY (HIGH POINT)

3/4" = 1'-0" | E1-XC120, H1-XC201

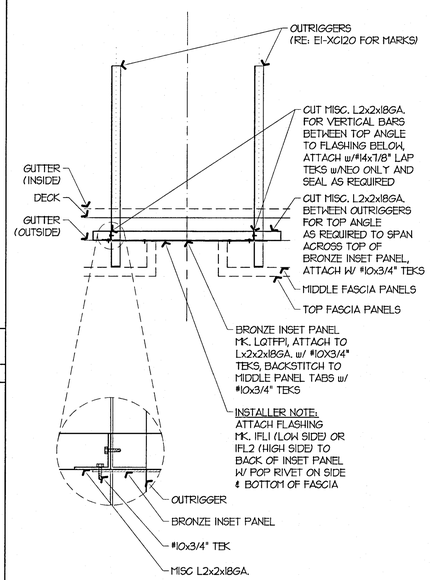
D1 NOT USED

N.T.S. | XXX-XXXX



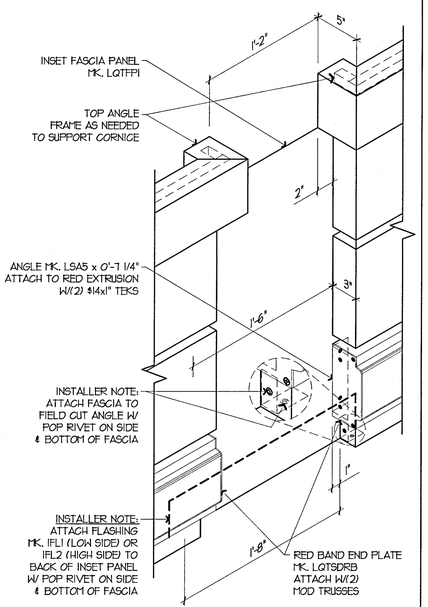
A1 CAP PLATE DETAIL

3/4" = 1'-0" | H1-XC410



A5 INSET SECTION

3/4" = 1'-0" | H1-XC201



A8 INSET ISOMETRIC DETAIL

1 1/2" = 1'-0" | H1-XC201

A11 NOT USED

N.T.S. | XXX-XXXX

E15 NOT USED

N.T.S. | XXX-XXXX

DESIGN LOADS:

DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
CANTILEVERED COLUMN SYSTEM
ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, W = 7.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

A15 DESIGN LOADS

NO SCALE | .

STATE OF MISSOURI
RICHARD D. MCCASKEY
2000162393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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ARLINGTON, TX. 76010
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LSC#78950

QuikTrip No. 0183R

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

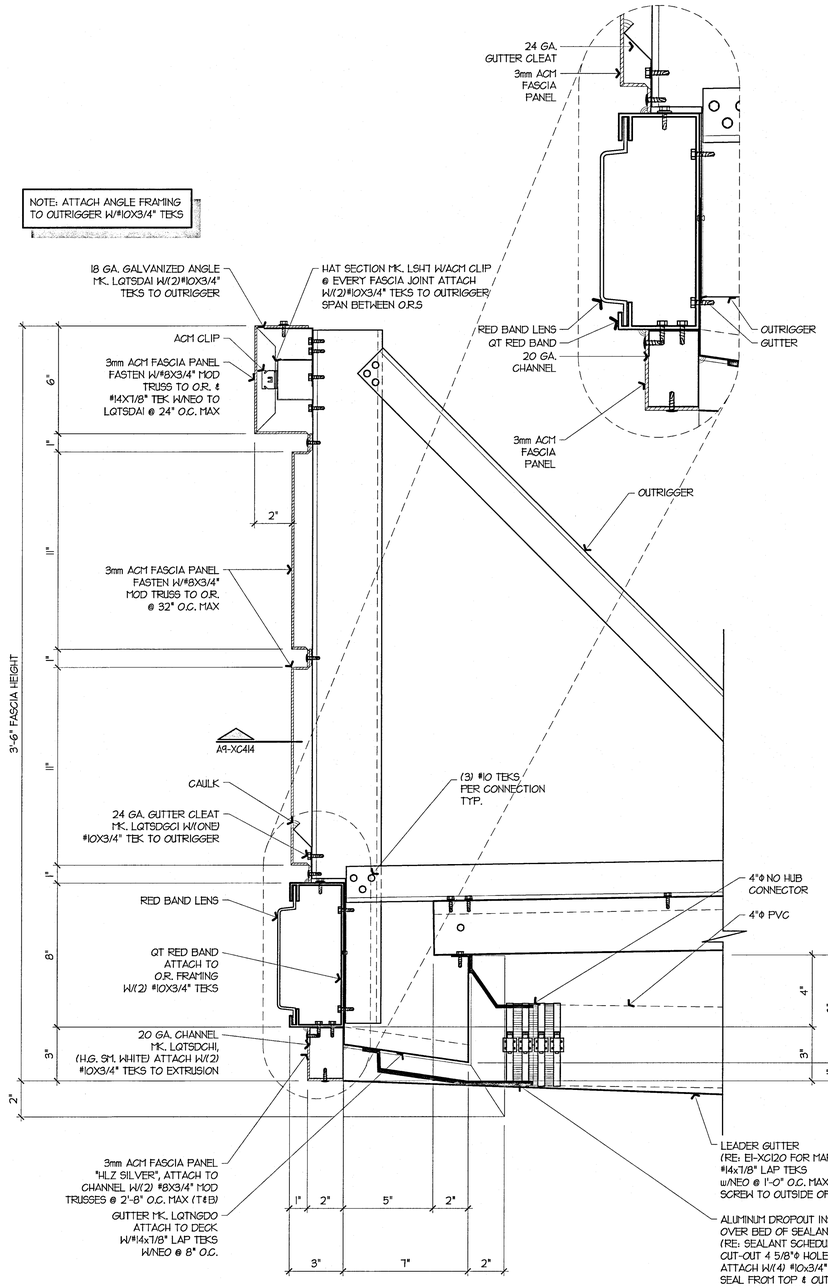
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

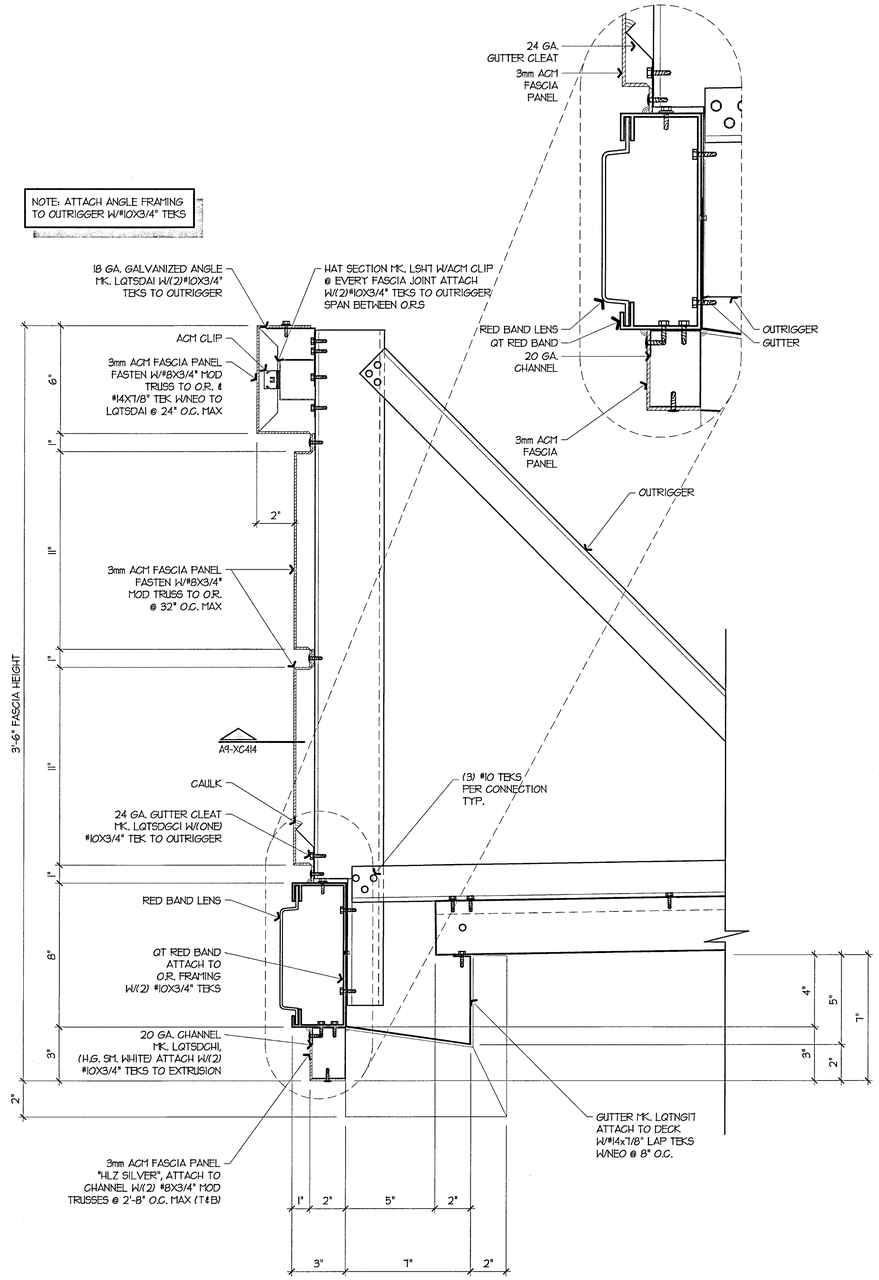
SHEET TITLE:
SECTIONS

SHEET NUMBER:
XC411

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



A1	FASCIA SECTION (LEADER & DROPOUT)
3" = 1'-0"	H1-XC410



A8	FASCIA SECTION (OVERFLOW)
3" = 1'-0"	H1-XC410

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, W = 7.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = II
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

A15	DESIGN LOADS
NO SCALE	.

STATE OF MISSOURI
RICHARD P. McCASKEY
E-2000164393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

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QuikTrip No. 0183R

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

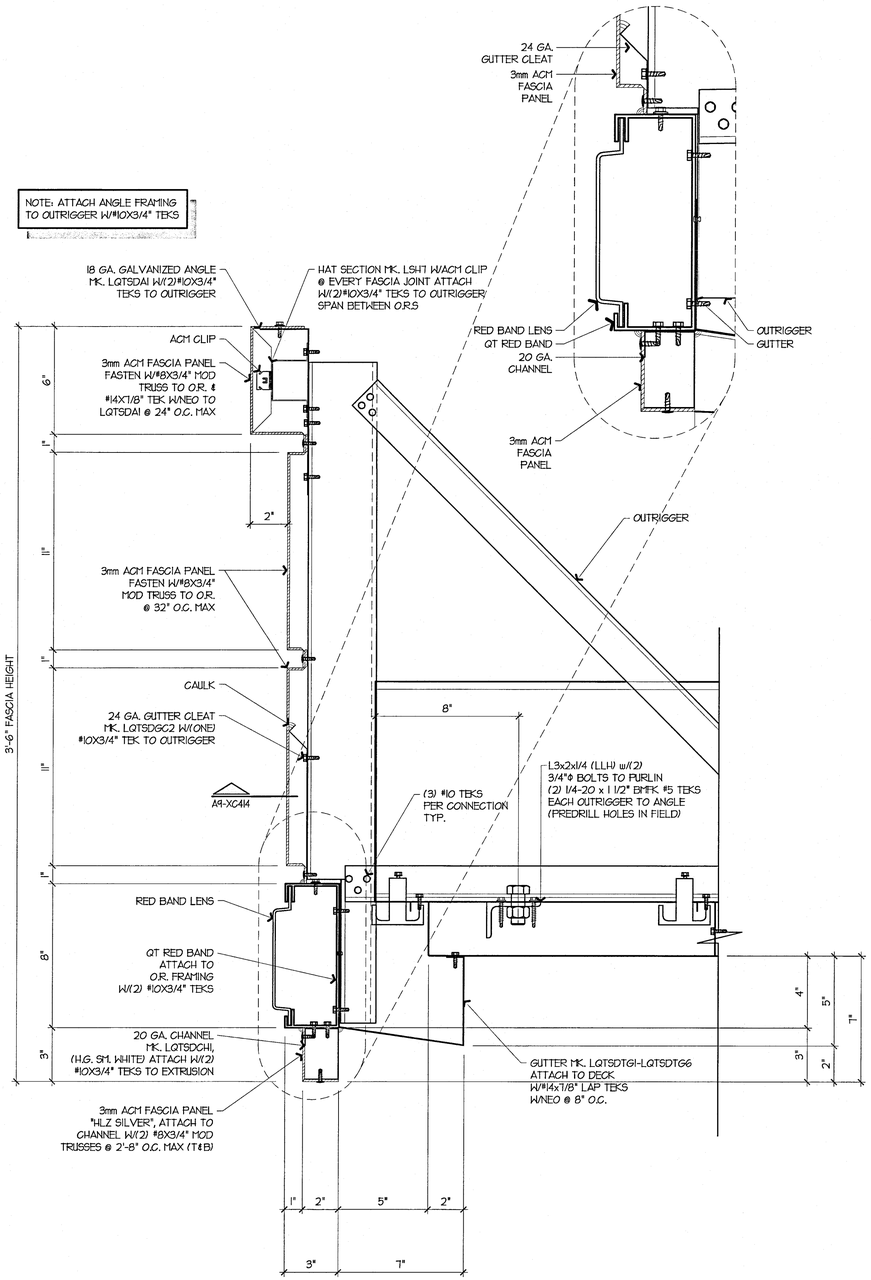
REV	DATE	DESCRIPTION

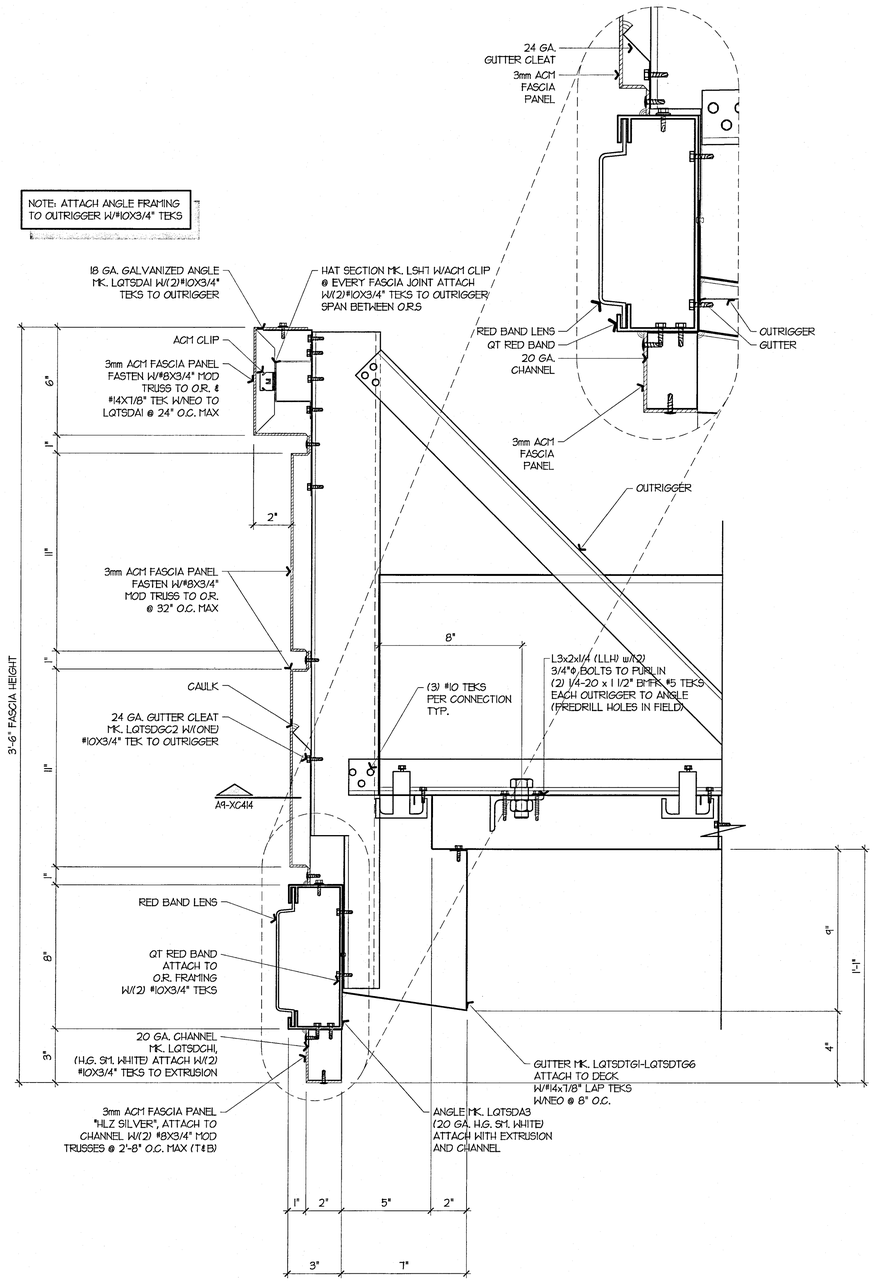
ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:
SECTIONS

SHEET NUMBER:
XC412

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025





DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
CANTILEVERED COLUMN SYSTEM-
ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, W = 7.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

A1	FASCIA SECTION (LOW CORNER)	A8	FASCIA SECTION (HIGH POINT)
3" = 1'-0"	H1-XC411	3" = 1'-0"	H1-XC411

A15	DESIGN LOADS
NO SCALE	.

STATE OF MISSOURI
RICHARD J. McGASKEY
E-2001164393
REGISTERED PROFESSIONAL ENGINEER

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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120 FAIRVIEW
ARLINGTON, TX. 76010
(817) 261-9116

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QuikTrip No. 0183R

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-25-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:
SECTIONS

SHEET NUMBER:
XC413

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Kevin Eastman, Plan Review
03/10/2025

C.O.A.: 2001015838

SIGNATURE DATE: 11-22-2024

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ARLINGTON, TX. 76010
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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	GISE
DATE	11-25-2024

REV	DATE	DESCRIPTION

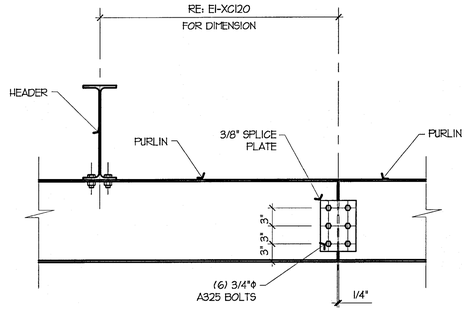
ORIGINAL ISSUE DATE: 09/05/2024

SHEET TITLE:
SECTIONS

SHEET NUMBER:
XC414

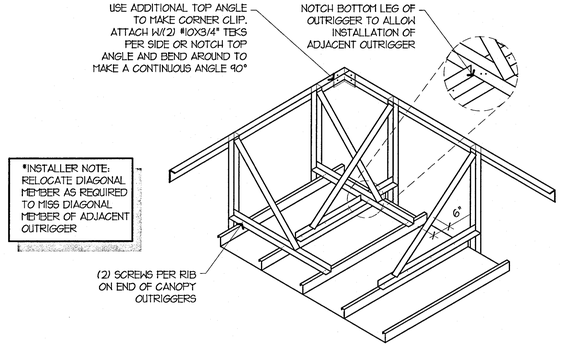
M1 SECTION AT PURLIN SPLICE

N.T.S. E1-XC120



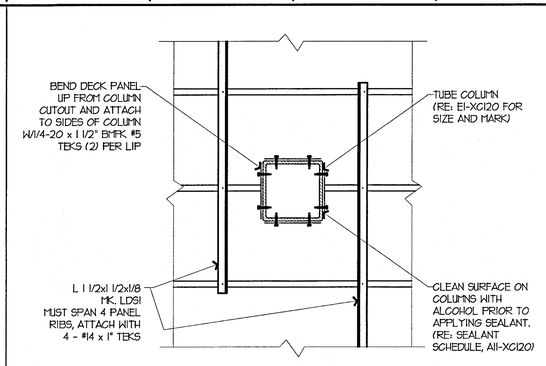
M5 CORNER OUTRIGGER DETAIL

N.T.S. E1-XC120



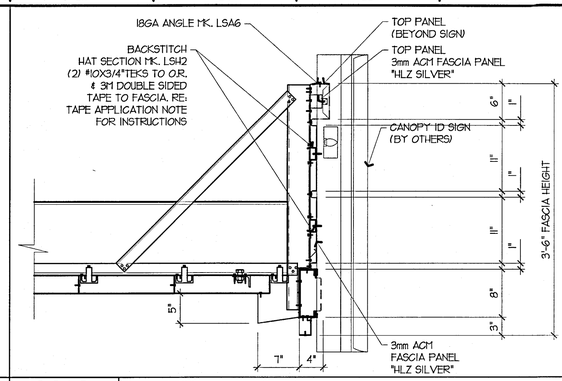
M9 DECK SUPPORT DETAIL

N.T.S. A5-XC410, A9-XC410, H1-XC410, A12-XC410



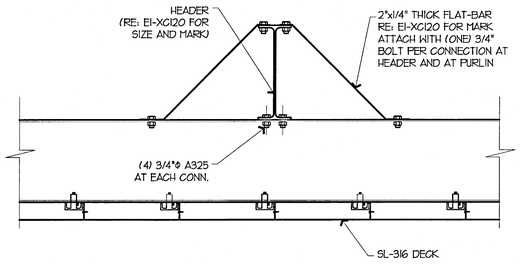
M13 SECTION AT CANOPY SIGN

N.T.S. E13-XC414



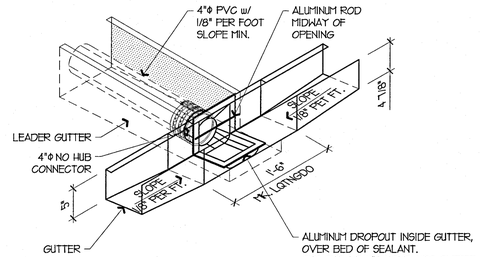
G1 SECTION AT HEADER BRIDGING

N.T.S. E1-XC120



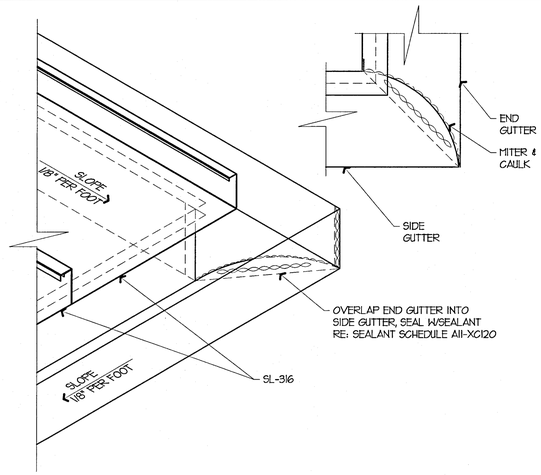
G5 LEADER & DROPOUT DETAIL

N.T.S. E1-XC120



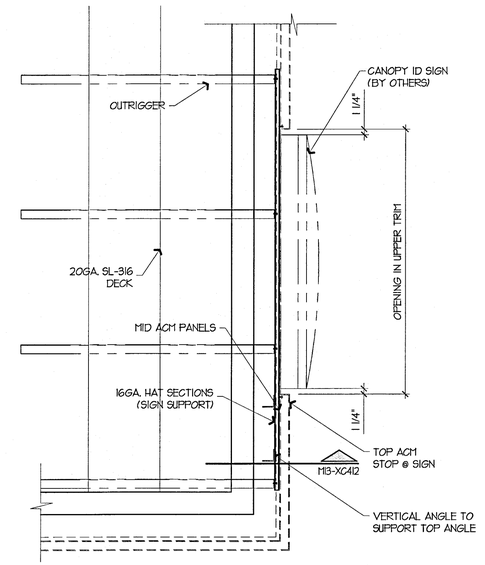
G9 MITER GUTTER DETAIL

N.T.S. E1-XC120



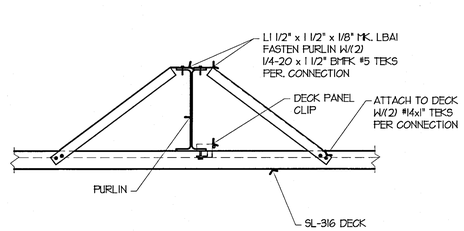
E13 SECTION AT SIGN SUPPORT

N.T.S. A11-XC120



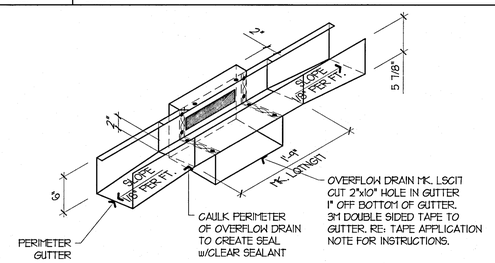
D1 SECTION AT PURLIN BRIDGING

N.T.S. E1-XC120



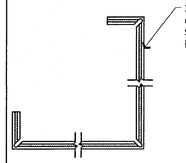
D5 OVERFLOW DETAIL

N.T.S. E1-XC120



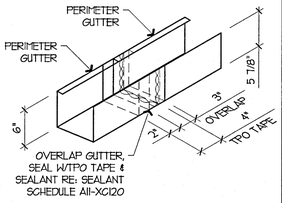
D9 CORNER DETAIL

N.T.S. E1-XC120



D11 GUTTER JOINT

N.T.S. E1-XC120



A1 NOT USED

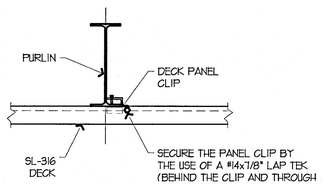
N.T.S. XXX-XXXX

A5 DECK CLIP DETAIL

N.T.S. H1-XC410, A11-XC411, H1-XC411

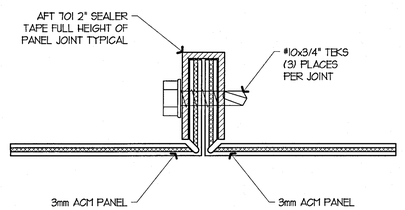
INSTALLER NOTE:
CLAMP DECK RIBS NEAR FACE OF PAN PRIOR TO INSTALLING DECK CLIP SCREW

DOUBLE DECK CLIP OUTSIDE PURLINS & CANOPY OVERHANGS TO THE FIRST HEADER. PANEL CLIP (ONE) AT EACH PANEL RIB ON ALTERNATE SIDES OF PURLIN BALANCE OF CANOPY.



A9 SECTION AT ACM FASCIA JOINT

N.T.S. A1-XC412, A8-XC412, A1-XC413, A8-XC413



A13 NOT USED

N.T.S. XXX-XXXX

A15 DESIGN LOADS

NO SCALE .

DESIGN LOADS:
DEAD LOAD = 3 p.s.f. (DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 p.s.f.
SNOW LOAD = 20 p.s.f.
V, ULT = 116 m.p.h. EXP. C
V, ASD = 90 m.p.h. EXP. C
BLDG CODE = 2018 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
Pf = 20 p.s.f., Ce = 1.2, Ct = 1.2
Is = 1.0, Wi = 7.26 ft, Pd = 29.80 p.s.f.
SITE CLASS = D (Default)
Ss (0.2) = 0.100
S1 (1.0) = 0.068
SDS = 0.11
SD1 = 0.11
Fa = 1.60
Fv = 2.40
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = B
CS = 0.085
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = M
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS =5.20 KIPS

GASOLINE SYSTEM, TANK & DISPENSER PIPING GENERAL NOTES

GENERAL NOTE:

A. IT IS REQUIRED THAT ONLY "CERTIFIED INSTALLERS" BE USED FOR INSTALLATION OF THE PIPING SYSTEM TO INSURE THAT PROPER PIPE FABRICATION, COUPLING AND INSTALLATION ARE PREFORMED. "CERTIFIED INSTALLERS" ARE EQUIPPED WITH FACTORY MANUFACTURED COUPLING EQUIPMENT AND INSTALLATION TOOLS AND HAVE RECEIVED FACTORY TRAINING BY MANUFACTURE REPRESENTATIVE ON THE PROPER INSTALLATION AND TESTING PROCEDURES.

THIS ENVIRONMENTALLY SAFE, UNDERGROUND PIPING SYSTEM PROVIDES PIPING RUNS BETWEEN USTS AND THE PRODUCT DISPENSERS.

B. WHERE FLEX CONNECTORS ARE COMPLETELY CONTAINED (NOT IN CONTACT WITH GROUND WATER, NATIVE SOIL OR BACKFILL MATERIAL), STAINLESS STEEL CONNECTORS ARE ACCEPTABLE. WHERE FLEX CONNECTORS ARE NOT COMPLETELY CONTAINED ISOLATION BOOTS OR PRIME SHALL BE USED TO SEPARATE CONNECTOR FROM COMING INTO CONTACT WITH GROUND WATER, NATIVE SOIL OR BACKFILL MATERIAL. ALL FLEX CONNECTORS SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE WITH NO BENDS OR FLEX CONNECTORS.

C. THE GENERAL CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF PIPING SYSTEM. THE GENERAL CONTRACTOR SHALL INSURE THAT GOOD WORKMANSHIP AND CONSTRUCTION PROCEDURES ARE FOLLOWED THROUGHOUT THE INSTALLATION, REGARDLESS OF INCLUSION OR OMISSION OF ANY APPLICABLE SUGGESTION IN THESE INSTRUCTIONS OR ON THE DRAWINGS.

D. UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THESE INSTRUCTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. MANUFACTURER'S SPECIALISTS ARE AVAILABLE FOR CONSULTATION. THE PRESENCE OF THE OWNER'S OR MANUFACTURERS REPRESENTATIVE AT AN INSTALLATION SITE DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR A PROPER INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SAFEGUARDING OF THE INSTALLATION AND MATERIALS AND EQUIPMENT STORED ON THE SITE TO PREVENT THEFT, VANDALISM OR DAMAGE.

RESPONSIBILITY NOTE:

FUEL CONTRACTOR RESPONSIBLE FOR DISPENSER AND SYSTEM START-UP AND CALIBRATION.

CONCRETE NOTE:

REFER TO CIVIL FOR CONCRETE REQUIREMENTS.

SETTLEMENT NOTE:

CAUTION TANK SETTLEMENT, TANK DISTORTION, OR MOVEMENT IN CONCRETE COVER SLAB CANNOT BE TOLERATED AND IF SPECIFIED MATERIALS ARE USED AND SPECIFIED PROCEDURES ARE FOLLOWED, NO INSTALLATION FAILURE SHOULD OCCUR. THEREFORE, IF ANY MOVEMENT, SETTLEMENT OR DISTORTION OCCURS, IT WILL BE PRESUMED THE CONTRACTOR HAS NOT FOLLOWED THE SPECIFIED INSTRUCTIONS AND PROCEDURES AND THE CONTRACTOR SHALL IMMEDIATELY UNDERTAKE, AT HIS SOLE EXPENSE, ANY NECESSARY CORRECTIVE MEASURES, AS MAY BE APPROVED BY THE QUIKTRIP FIELD REPRESENTATIVE, UP TO AND INCLUDING COMPLETE REMOVAL AND RESETTING OF ALL UNDERGROUND TANKAGE AT THE SITE. IF IT IS DETERMINED THAT MOVEMENT, SETTLEMENT OR DISTORTION HAS BEEN CAUSED BY FACTORS BEYOND THE CONTRACTOR'S CONTROL, THE COST OF REMEDIAL MEASURES WILL BE BORNE BY OTHERS. THROUGH ACCEPTANCE OF THE GAS CONTRACT, THE GAS INSTALLATION CONTRACTOR DOES HEREBY AGREE TO GUARANTEE THE UNDERGROUND TANKAGE INSTALLATION AGAINST FAILURE AS OUTLINED HEREIN ABOVE, FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

TANK BACKFILL REQUIREMENTS

POLICY 2.22.0 - TANK (FIBERGLASS UST) BACKFILL MATERIAL REQUIREMENTS AND COMPLIANCE TO STANDARDS

POLICY

IN ORDER TO ASSURE COMPLIANCE TO UST MANUFACTURER'S REQUIREMENTS FOR UST BACKFILL MATERIALS, PROCEDURES WILL BE FOLLOWED TO MONITOR APPROVAL BY MANUFACTURER, VERIFICATION THAT APPROVED MATERIAL HAS BEEN DELIVERED TO THE SITE, AND DOCUMENTATION ON THE CONSISTENCY OF MATERIAL PLACED IN THE UST EXCAVATION.

PROCEDURE
SPECIFICATIONS FOR ACCEPTABLE MATERIALS TO BE USED AS STRUCTURAL SUPPORT FOR FIBERGLASS USTS:
•
ROUNDED GRAVEL
WHEN USING ROUNDED GRAVEL, THE MATERIAL IS TO BE A MIX OF ROUNDED PARTICLES, SIZES BETWEEN 1/8" AND 3/4". THE ROUNDED GRAVEL MUST CONFORM TO THE SPECIFICATIONS OF ASTM C-33, PARAGRAPH 9.1, SIZES 6, 67, OR 7. NO MORE THAN 10% (BY WEIGHT) OF THE BACKFILL MAY PASS THROUGH A #8 SIEVE. THE MATERIAL IS TO BE WASHED, FREE-FLOWING, AND FREE OF ICE, SNOW AND DEBRIS.

CRUSHED STONE
WHEN USING CRUSHED STONE, THE MATERIAL IS TO BE A MIX OF ANGULAR PARTICLES, SIZES BETWEEN 1/8" AND 1/2". THE CRUSHED STONE MUST CONFORM TO THE SPECIFICATIONS OF ASTM C-33, PARAGRAPH 9.1, SIZES 7 OR 8. NO MORE THAN 10% (BY WEIGHT) OF THE BACKFILL MAY PASS THROUGH A #8 SIEVE. THE MATERIAL IS TO BE WASHED, FREE-FLOWING, AND FREE OF ICE, SNOW AND DEBRIS.

APPROVAL PROCESS

ROUNDED GRAVEL
A SAMPLE CONSISTING OF THREE (3) SEPARATE RANDOM INTERIOR STOCKPILE SAMPLES SHALL BE TAKEN AT THE QUARRY BY THE MATERIALS TESTING COMPANY. CLEAN ONE GALLON SIZED BUCKETS (APPROXIMATE) CAN BE USED FOR SAMPLING.

THE MATERIALS TESTING COMPANY SHALL COMPLETE A SIEVE ANALYSIS ON THIS MATERIAL AS IT HAS BEEN COMBINED. IF THIS MATERIAL MEETS THE ASTM C-33 SPECIFICATIONS, THE ANALYSIS SHALL BE SUBMITTED TO THE TANK MANUFACTURER FOR APPROVAL. THE TANK MANUFACTURER WILL ISSUE AN APPROVAL ON THAT SAMPLE AS REFERENCED TO A SPECIFIC QUARRY. THIS PROCESS SHOULD TAKE ABOUT TWO DAYS.

WITH ROUNDED GRAVEL ONLY, IT WILL NOT BE NECESSARY TO OBTAIN A NEW SAMPLE ON EACH INSTALLATION AS LONG AS THE QUARRY REMAINS THE SAME. AN APPROVAL FROM THE TANK MANUFACTURER WILL ONLY BE NEEDED ONCE TO DOCUMENT THE APPROVAL OF THE ROCK. IT WILL NOT BE NECESSARY TO ASK FOR APPROVAL ON ADDITIONAL INSTALLATIONS, UNLESS THE QUARRY LOCATION CHANGES.

IT WILL BE THE TANK INSTALLATION CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ANY NON-STANDARD OR OFF-SPEC MATERIAL HAS BEEN APPROVED BY THE TANK MANUFACTURER. MATERIAL SHOULD ALWAYS COME FROM THE SAME QUARRY AND REMAIN CONSISTENT.

CRUSHED STONE
A SAMPLE CONSISTING OF THREE (3) SEPARATE RANDOM INTERIOR STOCKPILE SAMPLES SHALL BE TAKEN AT THE QUARRY BY THE MATERIALS TESTING COMPANY. CLEAN ONE GALLON (APPROXIMATE) SIZED BUCKETS CAN BE USED FOR SAMPLING.

THE MATERIALS TESTING COMPANY SHALL COMPLETE A SIEVE ANALYSIS ON THIS MATERIAL AS IT HAS BEEN COMBINED. IF THIS MATERIAL MEETS THE ASTM C-33 SPECIFICATIONS WITH NO VARIATION, IT WILL NOT BE NECESSARY TO SUBMIT A SIEVE ANALYSIS FOR APPROVAL BY THE TANK MANUFACTURER. IT IS NOT UNCOMMON TO RECEIVE AN ANALYSIS THAT INDICATES MATERIAL SIZES OUTSIDE OF THE ASTM-33 STANDARD. THESE VARIABLE REPORTS WILL NEED TO BE SUBMITTED TO THE TANK MANUFACTURER FOR APPROVAL. THIS PROCESS SHOULD TAKE ABOUT TWO DAYS.

A NEW SAMPLE AND SIEVE ANALYSIS WILL BE REQUIRED FOR EVERY LOCATION AS WELL AS AN APPROVAL FROM THE TANK MANUFACTURER.

- QUIKTRIP WILL REQUIRE AN ON-SITE INSPECTION AND DOCUMENTATION BY THE TESTING COMPANY AS TO THE CONSISTENCY OF THE MATERIAL DELIVERED TO THE SITE AND ITS SIMILARITY TO THE MATERIAL APPROVED BY THE TANK MANUFACTURER. QUIKTRIP WILL ALSO REQUIRE TESTING COMPANY DOCUMENTATION TO VERIFY THAT THE MATERIAL PLACED IN THE TANK EXCAVATION REMAINS CONSISTENT THROUGHOUT THE BACKFILL PROCESS. DOCUMENTATION SHALL BE PROVIDED TO QUIKTRIP.

- MATERIAL DISCOVERED ON SITE THAT DOES NOT MEET THE ASTM C-33 SPECIFICATION, FOR ANY REASON, WILL BE REMOVED AND REPLACED AT THE UST INSTALLER'S EXPENSE.

- ANY LIMESTONE MATERIAL USED SHALL ONLY BE PROVIDED FROM A D.O.T. APPROVED QUARRY. DOCUMENTATION OF APPROVAL SHALL BE PROVIDED TO QUIKTRIP.

BEDDING AND BACKFILL
1. MATERIAL SHALL CONFORM TO THE SPECIFICATIONS OF ASTM C-33 GRADING REQUIREMENTS FOR COARSE AGGREGATES.
   a. MATERIAL MUST BE FROM A TESTED AND APPROVED STATE DEPARTMENT OF TRANSPORTATION SUPPLIER OR SOURCE.
   b. CONTRACTOR SHALL PROVIDE THE FOLLOWING TESTING RESULTS WHICH HAVE BEEN PERFORMED WITHIN THE PRIOR 12 MONTHS OR MORE FREQUENT AS REQUIRED BY THE STATE DEPARTMENT OF TRANSPORTATION OF JURISDICTION, FORM THE SUPPLIER OR SOURCE PRIOR TO FUEL TANK INSTALLATION:
      i. SIEVE ANALYSIS
      ii. DELETERIOUS SUBSTANCES
      iii. SOUNDNESS
2. MATERIALS SHALL MEET GRADUATION REQUIREMENTS LISTED IN CURRENT MANUFACTURE'S INSTALLATION MANUAL.
3. ADHERENCE TO ALL INSTALLATION METHODS AND PRE-CAUTIONS AS INDICATED BY THE MANUFACTURER IS REQUIRED.
4. SUBMIT SAMPLE TO QUIKTRIP'S TESTING AGENCY FOR SIEVE ANALYSIS PRIOR TO FUEL TANK INSTALLATION.

TANK AND DISPENSER NOTE:

A. THE SPECIFIC SITE PLAN AND SPECIFICATIONS WILL GOVERN THE EXACT LOCATION, NUMBER, SIZE, AND TYPE OF EQUIPMENT TO BE INSTALLED AND INSTALLATION TO BE FOLLOWED.

B. PLANS AND SPECIFICATIONS REPRESENT MINIMUM REQUIREMENTS. CONTRACTOR SHALL MAKE THE INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, FEDERAL, STATE, AND LOCAL ORDINANCES WHEN SUCH ORDINANCES EXCEED THESE MINIMUMS.

C. CONTRACTOR SHALL SECURE, ARRANGE FOR AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS AND TESTS AND INCLUDE THE COST IN THEIR BID (UNLESS SPECIFIED DIFFERENTLY IN SCOPE OF WORK).

D. THE SCOPE OF WORK OR SPECIFICATIONS WILL LIST MATERIAL AND EQUIPMENT TO BE FURNISHED BY QUIKTRIP. CONTRACTOR SHALL STORE, SAFEGUARD AND FURNISH ALL OTHER MATERIALS REQUIRED TO COMPLETE INSTALLATION.

E. MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND OPERATIONAL TESTING OF DISPENSERS SHALL BE FOLLOWED TO AVOID POSSIBILITY OF DAMAGE TO EQUIPMENT.

F. ALL INSTALLATIONS SHALL INCLUDE THE INSTALLATION OF STAGE I VAPOR RECOVERY.

G. CONTRACTOR SHALL PLACE ALL UNDERGROUND PIPING WHERE AND AS SHOWN WITH A MINIMUM NUMBER OF BENDS AND CONTINUOUSLY PITCHED TO PROVIDE MAXIMUM SLOPE FROM RISER TO THE LOW POINT AT THE CONNECTION. MINIMUM SLOPE OF 1/8" PER FOOT. INSTALL ALL PRODUCT AND VENT LINES IN A COMMON TRENCH.

H. ALL PRODUCT AND VENT LINES (UNDERGROUND) SHALL BE FIBERGLASS AND FLEX UNLESS OTHERWISE NOTED. ALL PRODUCT LINES SHALL BE 3" OR 2" FLEX. THE MANUFACTURE TO BE DETERMINED BY QUIKTRIP REPRESENTATIVE.

I. CONTRACTOR SHALL IDENTIFY UNDERGROUND PIPING, AND VENT PIPING ONCE IT HAS BEEN BACKFILLED AND COVERED UP SO FINISH GRADING AND CONCRETE CONTRACTOR KNOW WHERE UNDERGROUND PIPING IS LOCATED.

J. INITIAL PIPE SYSTEM PURGE SHALL BE PERFORMED THROUGH SHEAR VALVE TEST PORT OR FILTER ADAPTER, AND NOT THROUGH FILER/METER/NOZZLE.

PIPE TRENCH LINER NOTE:

PIPING TRENCH LINERS SHALL BE 6oz NON-WOVEN GEOTECH FABRIC - OVERLAP TOP COURSE. CONTACT LOCAL QUIKTRIP REPRESENTATIVE FOR LOCAL REQUIREMENTS.

CERAMIC TILE NOTE:

CERAMIC TILE SHALL BE "CONTINENTAL SLATE C553 ASIAN BLACK 6X6 WITH LATICRETE PERMACOLOR BLACK 22 GROUT". TILE MUST BE CENTERED ON THE ISLAND IN BOTH DIRECTIONS.

FINISH NOTE:

(ALL PRODUCTS ARE SHERWIN-WILLIAMS)

A. EXPOSED STEEL: 1 COAT KEM KROMIK METAL PRIMER
   ISLAND FORMS: DEVTHANE 379UVA ALIPHATIC URETHANE GLOSS ENAMEL
   VENT PIPE: GLOSS BLACK
   VENT PIPE: AMARILLO WHITE (PHOENIX ONLY)

B. EXPOSED STEEL: 1 COAT KEM KROMIK METAL PRIMER
   GUARD POSTS (ALL DIVISIONS EXCEPT PHOENIX): 2 COATS INDUSTRIAL ENAMEL.

   COLOR: SAFETY YELLOW
   GUARD POST (PHOENIX ONLY): ROLL BRUSH, A100 LATEX FLAT
   COLOR: B54-W101, Y-60 / 32, R2-20 / 32, B1-40 / 32

CANOPY NOTE:

CANOPY IS A PREFAB STEEL STRUCTURE. CONTACT QUIKTRIP REPRESENTATIVE FOR NAME OF MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR STRUCTURAL DESIGN AND INSTALLATION INFORMATION. SEE ARCHITECTURAL SITE PLAN FOR LOCATION OF CANOPY AND GAS ISLANDS. THE GASOLINE CANOPY STRUCTURE IS FINISHED AND INSTALLED BY QUIKTRIP.

INSURANCE NOTE:

SEE LOCAL REPRESENTATIVE FOR REQUIREMENTS.

INSTALLATION NOTE:

CANOPY, TANKS AND BUILDING TO BE INSTALLED AT THE SAME TIME. THESE PLANS MUST BE USED IN COORDINATION WITH SEPARATE SITE, BUILDING AND CANOPY PLANS.

CONTRACTOR NOTE:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

B. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF THE GASOLINE USTS AND SHALL INSURE THAT GOOD WORKMANSHIP PRACTICES AND CONSTRUCTION PROCEDURES ARE FOLLOWED REGARDLESS OF THE INCLUSION OR OMISSION OF ANY INSTRUCTION.

C. UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THESE AND THE MANUFACTURER'S INSTRUCTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. MANUFACTURER'S SPECIALISTS ARE AVAILABLE FOR CONSULTATION. THE PRESENCE OF THE MANUFACTURER OR OBSERVER AT AN INSTALLATION SITE DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR THE PROPER INSTALLATION OF THE TANKS.

D. QUESTIONS REGARDING INSTALLATION PROCEDURES OR TANK REPAIRS SHOULD BE DIRECTED TO THE QUIKTRIP FIELD REPRESENTATIVE.

E. GASOLINE UNDERGROUND TANKS MUST BE INSTALLED ACCORDING TO THESE INSTRUCTIONS, THE MANUFACTURER'S INSTRUCTIONS AND NFPA 30 AND 30A UL971. LOCAL CODES MAY APPLY AND MUST BE ADHERED TO. FAILURE TO FOLLOW THESE INSTALLATION INSTRUCTIONS WILL VOID THE WARRANTY AND WILL RESULT IN TANK FAILURE. PROPER INSTALLATION OF GASOLINE USTS HELP PREVENT TANK DAMAGE AND SHOULD INSURE LONG-TERM CORROSION-PROOF SERVICE. IT IS IMPERATIVE TO READ, UNDERSTAND AND FOLLOW THESE INSTRUCTIONS.

F. THESE SPECIFICATIONS ARE SUPPLEMENTED BY THE RESPECTIVE TANK MANUFACTURER'S SPECIFICATIONS. THE INSTALLATION PROCEDURE SHALL COMPLY WITH BOTH SETS OF INSTRUCTIONS AND SPECIFICATIONS. IF, IN THE CONTRACTOR'S JUDGEMENT, THERE APPEARS TO BE A CONFLICT IN THESE SPECIFICATIONS AND THE TANK MANUFACTURER'S INSTRUCTIONS, CONTACT THE LOCAL QUIKTRIP REPRESENTATIVE FOR CLARIFICATION AND GUIDANCE.

G. CONTRACTOR SHALL SECURE, ARRANGE FOR AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS AND TESTS AND INCLUDE THE COST IN HIS BID (UNLESS SPECIFIED DIFFERENTLY IN SCOPE OF WORK).

H. CONTRACTOR SHALL INSPECT AND CONFIRM ALL PIPING TO BE CLEAR OF ALL BEDDING MATERIAL, TRASH, ANY TYPE OF LIQUID OR DEBRIS PRIOR TO AND AFTER INSTALLATION.

I. TANK AND PRODUCT LINE TESTING AND REPORTING REQUIRED. COORDINATE REQUIREMENTS WITH QUIKTRIP REPRESENTATIVE.

J. XERXES TRUCHECK TANK TIGHTNESS TESTING PROCEDURES SHALL BE FOLLOWED FOR ALL TANK BEING INSTALLED. TRUCHECK DATA LOG SHALL BE COMPLETED BY THE CONTRACTOR AND SUBMITTED TO THE QUIKTRIP REPRESENTATIVE AFTER TESTING IS COMPLETE. CONTRACTOR SHALL ALSO RETAIN A COPY AS PART OF THE TANK RECORDS THAT MAY BE REQUIRED BY FEDERAL, STATE AND/OR LOCAL REGULATIONS OR CODES.

K. SUMP VENTILATION SYSTEM SHALL BE INSTALLED AND TESTED BY CONTRACTOR TO PROVIDE CONTINUOUS AIR MOVEMENT BETWEEN SUMPS. REFER TO SHEET XF410 AND DIRECTION FROM THE QUIKTRIP REPRESENTATIVE.

L. CONTRACTOR SHALL PROVIDE TANK EXCAVATION HOLE PROTECTION AT ALL TIMES UNTIL PAVING IS IN PLACE PER OSHA STANDARD 1910. COVERS AND/OR GUARDRAILS SHALL BE PROVIDED TO PROTECT PERSONNEL FROM THE HAZARDS OF OPEN PITS, TANKS, VATS, DITCHES, ETC.

M. ALL TANK, TRANSITION, AND DISPENSER SUMPS SHALL BE COVERED DURING CONSTRUCTION TO PREVENT DEBRIS AND WATER FROM ACCUMULATING. ANY ACCUMULATION SHALL BE REMOVED AND SUMPS KEEP CLEAN.

N. CONTRACTOR TO CONTACT QUIKTRIP REPRESENTATIVE AND QUIKTRIP ENVIRONMENTAL FOR TANK TESTING REQUIREMENTS.

O. ALL UNDERGROUND STORAGE TANKS SHALL BE BALLASTED WITH CLEAN WATER AT TIME OF TANK INSTALLATION PER MANUFACTURER INSTALLATION INSTRUCTIONS. THE PRACTICE OF BALLASTING WITH PRODUCT IS STRICTLY PROHIBITED AND NOT ALLOWED BY QUIKTRIP, ALL STEEL TANKS SHOULD BE BALLASTED WITH 100% CLEAN WATER.

P. CONTRACTOR SHALL PERFORM ALL REQUIRED TANK TIGHTNESS TESTING WITH WATER ONLY. THE USE OF PRODUCT FOR THESE TEST IS STRICTLY PROHIBITED AND NOT ALLOWED BY QUIKTRIP.

Q. THERE CANNOT BE FUEL IN A TANK THAT IS NOT MONITORED. VEEDER ROOT SYSTEM AND ALL ASSOCIATED WIRING AND SENSORS WILL NEED TO BE IN PLACE, AND FULLY OPERATIONAL PRIOR TO THE INITIAL FUEL DELIVERY. PROGRAMMING FOR TANK LEVEL MONITORING SHOULD OCCUR IMMEDIATELY AFTER A DELIVERY OF FUEL INTO ANY TANK.

R. IN THE EVENT THE VR IS NOT ABLE TO BE IMMEDIATELY PROGRAMMED OR ALL SENSORS HAVE NOT BEEN WIRED, PLEASE REFER TO THE TLS450 PROGRAMMING SCRIPT "TANK INVENTORY ONLY PROCEDURE" TO SETUP THE TANK PROBES TO MONITOR FUEL LEVELS.

FUEL SHEET INDEX

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CONDUIT GENERAL INFORMATION & DETAILS	XF302
DISPENSER CONDUIT LAYOUT & SECTION	XF303
CANOPY CONDUIT LAYOUT	XF303.1
DISPENSER CONDUIT LAYOUT & DETAILS	XF304
UST CONDUIT LAYOUT & DETAILS	XF305
UST CONDUIT LAYOUT & DETAILS	XF306
VEEDER ROOT SCHEMATIC & DETAILS	XF307
VEEDER ROOT SCHEDULE & DETAILS	XF308
SENSOR NUMBERING PLAN	XF309
NEC CLASSIFIED AREAS	XF310
ELECTRICAL DETAILS	XF311
ELECTRICAL DETAILS	XF312
ELECTRICAL DETAILS	XF313
UNDERGROUND PIPING SYSTEM PLAN	XF401
UST SECTIONS	XF402
TANK TOP EQUIPMENT DETAILS	XF403
DISPENSER & ISLAND DETAILS	XF404
DISPENSER & ISLAND SECTION	XF405
UST, TRANSITION SUMP & MISCELLANEOUS DETAILS	XF406
UST, TRANSITION SUMP & MISCELLANEOUS DETAILS	XF406.1
UST & PIPING DETAILS	XF407
DISPENSER & PIPING DETAILS	XF408
DISPENSER & PIPING DETAILS	XF409
VAPOR, VENT DETAILS	XF410
VAPOR, VENT DETAILS	XF410.1
BILL OF MATERIALS	XF600
BILL OF MATERIALS	XF601

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03/19/2025

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER 2013011214
PROFESSIONAL ENGINEER
11/29/2024

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PROTOTYPE	P-120
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VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
GASOLINE SYSTEM TANK AND DISPENSER PIPING GENERAL NOTES

SHEET NUMBER:
XF101

A1
N.T.S.
GASOLINE SYSTEM, TANK & DISPENSER PIPING GENERAL NOTES

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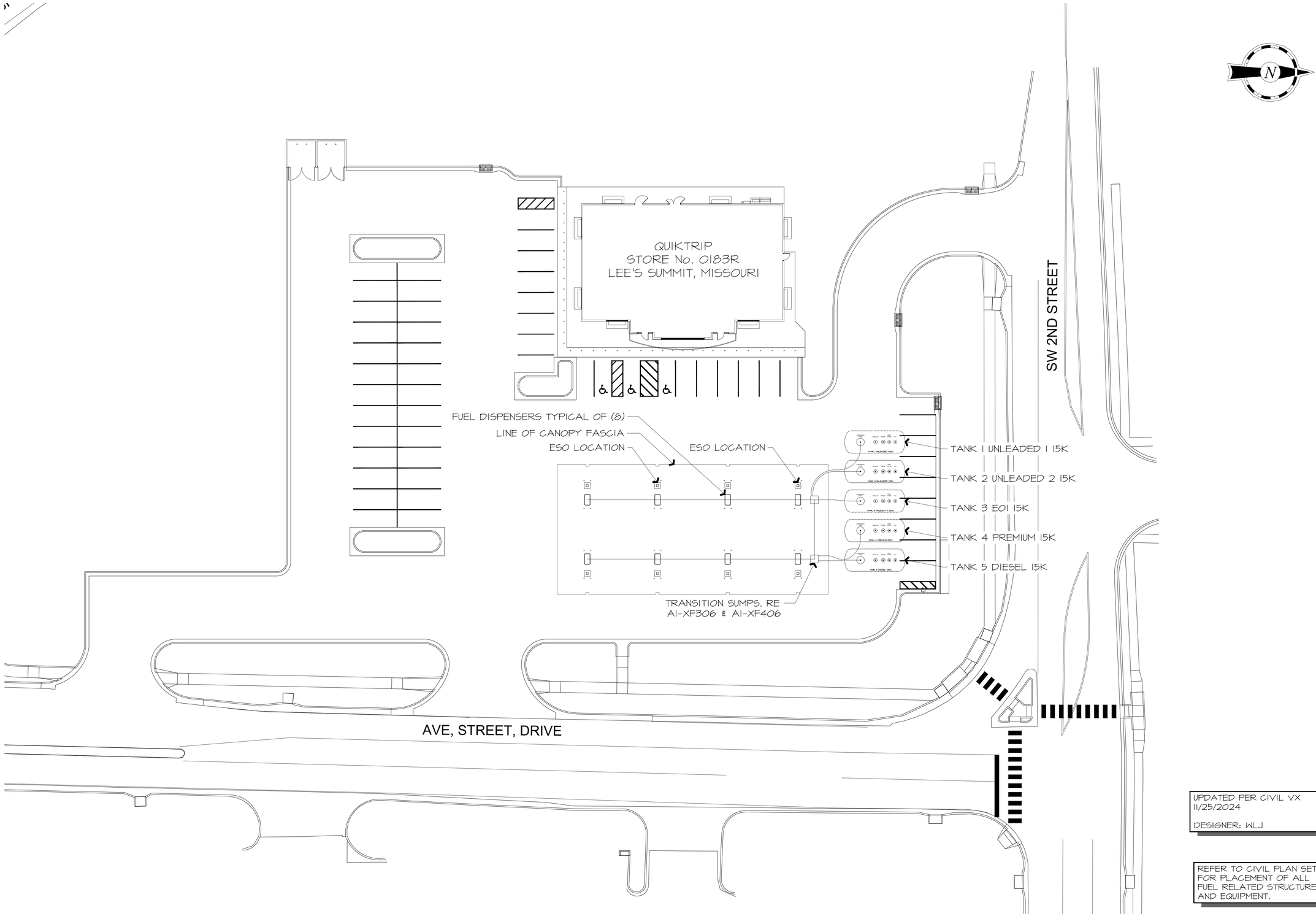

UPDATED PER CIVIL VX
11/25/2024

DESIGNER: WLJ

REFER TO CIVIL PLAN SET FOR PLACEMENT OF ALL FUEL RELATED STRUCTURES AND EQUIPMENT.

A1 SITE PLAN (REFERENCE ONLY - NOT FOR CONSTRUCTION)
N.T.S.

STATE OF MISSOURI
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SHEET TITLE:
SITE PLAN

SHEET NUMBER:
XF102

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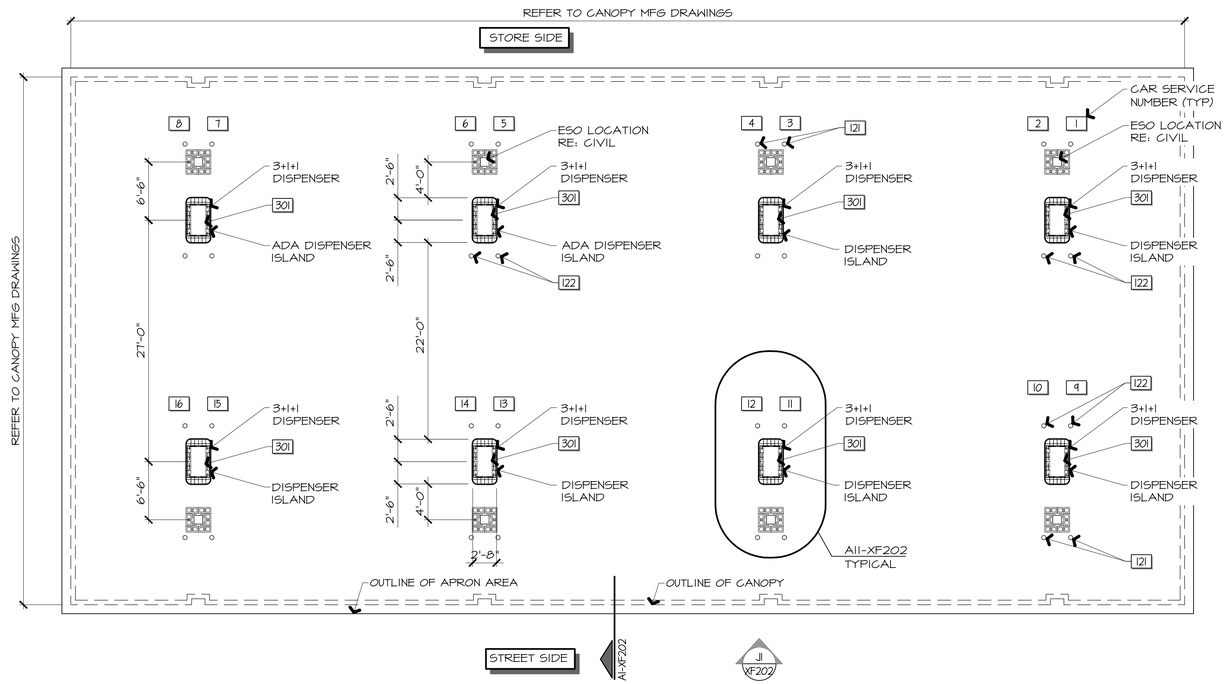
Lee's Summit, Missouri
03/19/2025

NOTE:

1. DISPENSER FORMS TO BE SET IN PLACE AND USED AS A FORM TO POUR CONCRETE AROUND.
2. ALL EQUIPMENT INSTALLATIONS MUST COMPLY WITH MANUFACTURER'S SPECIFICATIONS.
3. ALL EQUIPMENT AND CONSTRUCTION ARE NEW AND FACILITY IS TO BE SELF-SERVICE.
4. FOUNDATION AND SUBGRADE PREPARATION DETAILS IN ACCORDANCE WITH SOIL REPORT AND CIVIL DRAWINGS.
5. SEE CIVIL PLANS FOR ORIENTATION ON SITE, AND FOR TRAFFIC FLOW.
6. REFER TO CANOPY MANUFACTURERS DRAWINGS FOR SPECIFIC CANOPY FOOTING OPTIONS.
7. DISPENSER LAYOUT FOR EQUIPMENT LOCATION AND CONFIGURATION. SEE CIVIL DRAWINGS FOR CONCRETE SPECIFICATIONS, REINFORCING, CANOPY DETAILS, SLOPES & GRADES, SIGNAGE AND ADDITIONAL SITE REQUIREMENTS.



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VERSION	G3SE
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SHEET TITLE:
DISPENSER PLAN

SHEET NUMBER:
XF201

A1
1/8"=1'-0"
DISPENSER PLAN

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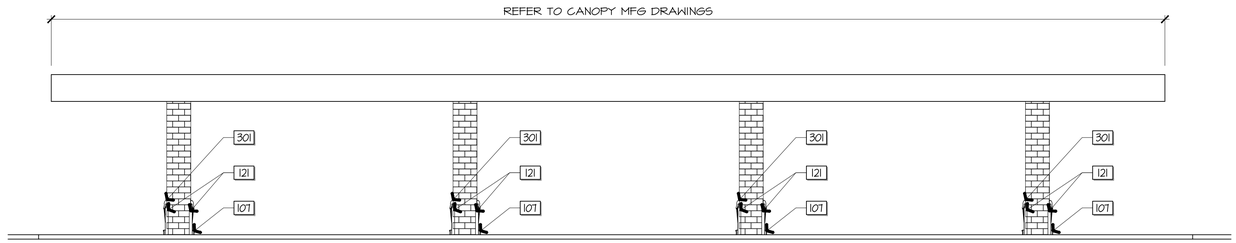
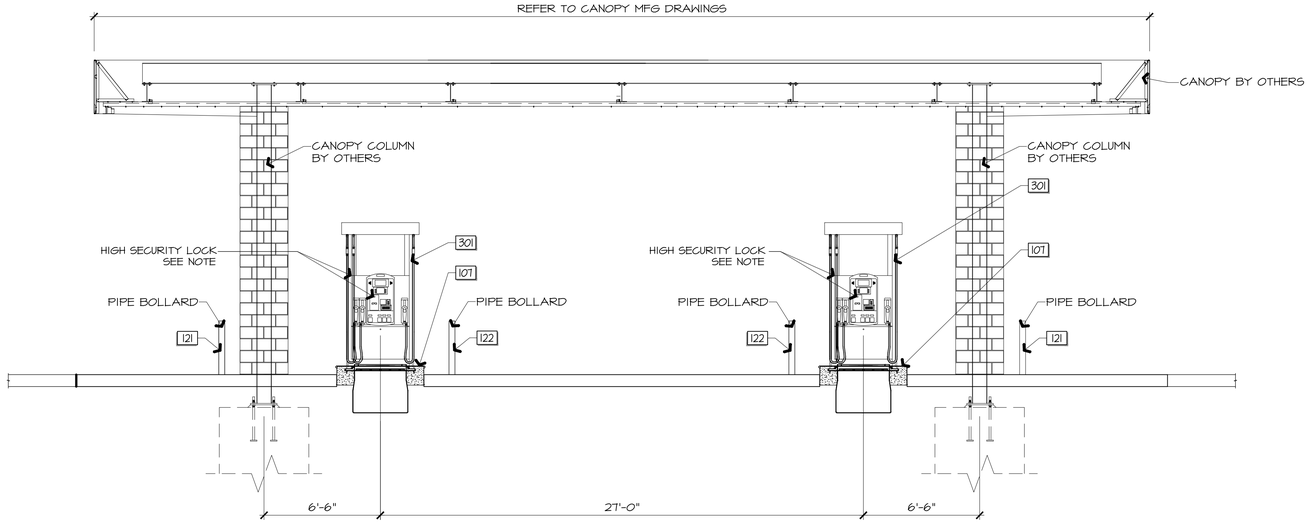


NOTE:
REFER TO QUIKTRIP INSTALL PACKAGE IV270-IV272 FOR INSTALL INFORMATION ON THE WASHER BUCKET, AUTO DIESEL SIGNAGE MARKETING PLACARD, GAS COLUMN NUMERAL SIGNAGE, AND SECURITY CAMERAS.

J1 CANOPY FRONT ELEVATION

1/8"=1'-0" A1-XF201

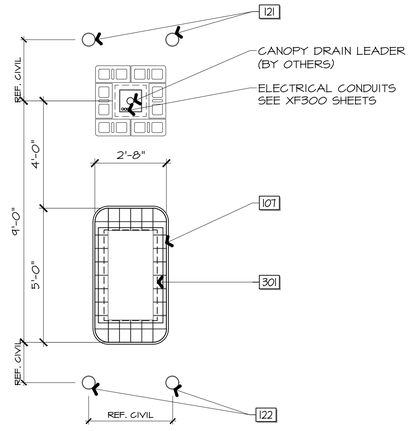
NOTE:
STANDARD GILBARCO LOCKS TO BE REPLACED WITH QT HIGH SECURITY LOCKS QT PROVIDED, GC INSTALLED
AUTO MPD LOCKS = 4 PER MPD, GRIND AND UPPER DOOR ON BOTH SIDES
SEE QT REPRESENTATIVE FOR KEY



A1 CANOPY SECTION DETAILED CROSS SECTION

1/4"=1'-0" A1-XF201

NOTE:
PIPE BOLLARD RE:
STRUCTURAL DRAWINGS FOR SIZE & FOOTING DESIGN
RE: CIVIL DRAWINGS FOR LOCATION



A11 DISPENSER PLAN

3/16"=1'-0" A1-XF201

STATE OF MISSOURI
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SHEET TITLE:
DISPENSER PLAN, SECTIONS & DETAILS

SHEET NUMBER:
XF202

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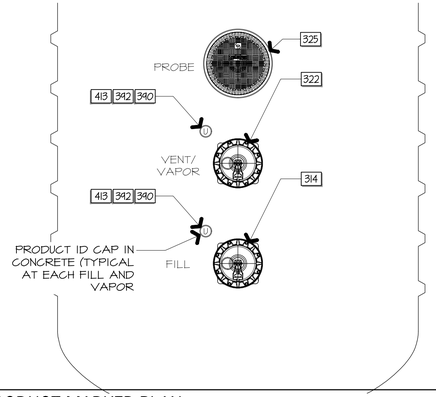
03/12/2025



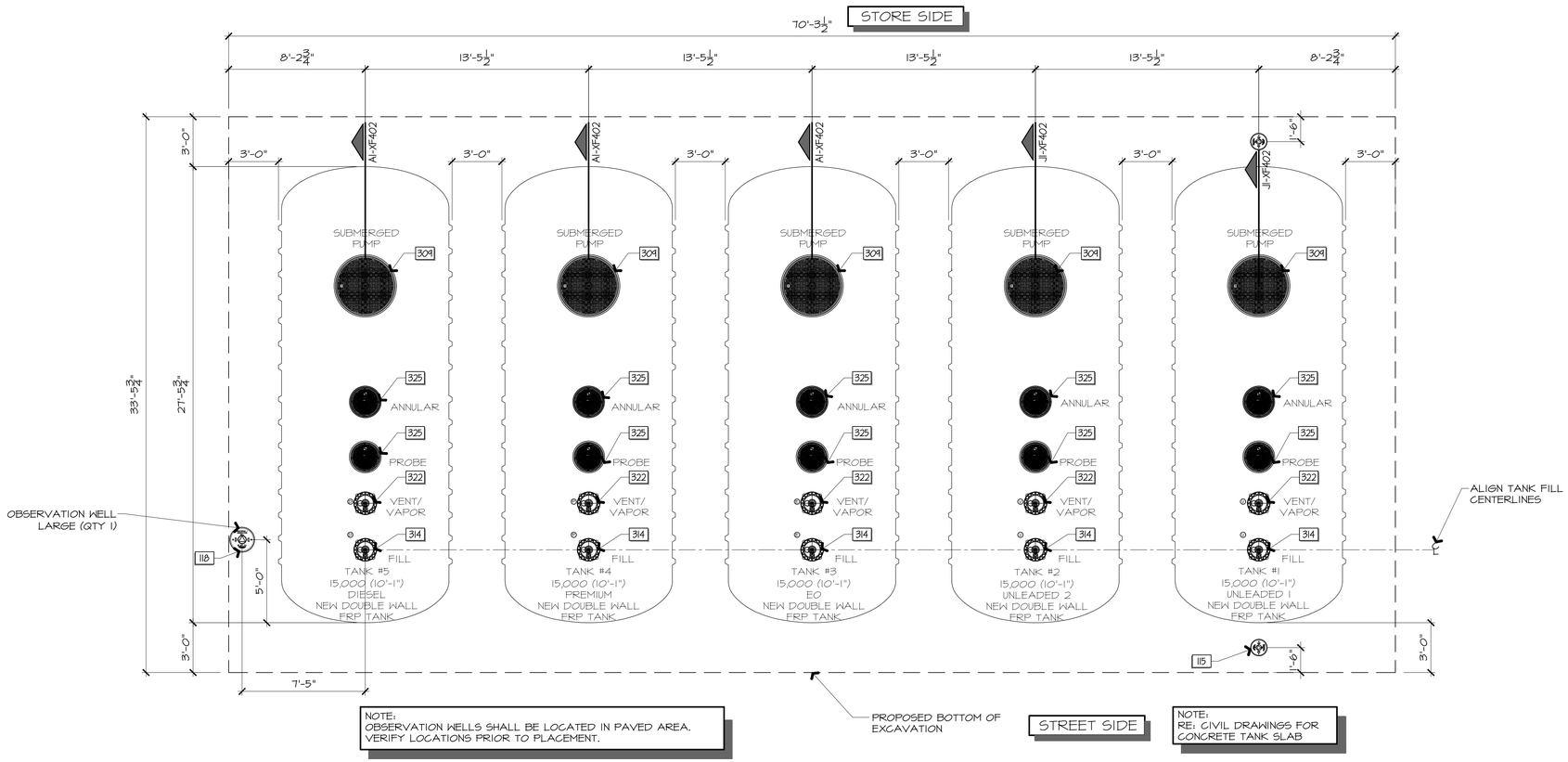
L1 PRODUCT MARKER PLAN
1/2" = 1'-0"

PAINT COLOR SPECIFICATIONS

PETROLEUM RESISTANT PAINT, INDUSTRIAL ENAMEL, (PROTECTIVE & MARINE COATINGS)

1. FUEL MANHOLE COVERS, VAPOR RECOVERY MANWAYS, PRODUCT FILL COVERS, STICK PORT COVERS.
   A. PREMIUM UNLEADED - SAFETY RED B65R550.
   B. UNLEADED PLUS - BLUE B65L550
   C. UNLEADED - WHITE B65W550
   D. UNLEADED W/ NO ETHANOL - WHITE B65W550 WITH BLACK "X"
   E. UNLEADED E15 - HALF BLUE B65L550 AND HALF WHITE B65W550
   F. VAPOR RECOVER CONNECTION - SAFETY ORANGE SW4023
   G. PRODUCT X TANK WHEN FILLED WITH WATER - GRAY SW4031
   H. OBSERVATION WELLS - WHITE B65W550 WITH DIAMOND BLOCK
   I. DIESEL ALL GRADE ULTRA LOW SULFUR - BRIGHT YELLOW B65Y552
   J. DIESEL EXHAUST FLUID - LASER BLUE SW4079
   K. STICK PORT - MATCH PRODUCT FILL
   L. DIESEL VAPOR BUCKET - BLACK

FIBRELITE COVER NOTE:
1. ENSURE THAT THE SEAL AND SEALING FACES OF THE COVER ARE CLEAN
2. APPLY SILICONE TO THE COVER SEAL
3. LEAVE SILICONE CAN IN SUMP FOR FUTURE USE



NOTE:
OBSERVATION WELLS SHALL BE LOCATED IN PAVED AREA. VERIFY LOCATIONS PRIOR TO PLACEMENT.

NOTE:
RE: CIVIL DRAWINGS FOR CONCRETE TANK SLAB

TANK TOP EQUIPMENT PAINT REQUIREMENTS (API-1637) PAINT SHALL BE PETROLEUM RESISTANT	
MANHOLE COVER	COLOR
UNLEADED	WHITE
UNLEADED W/NO ETHANOL	WHITE W/BLACK "O"
UNLEADED WE15 ETHANOL	COPPER W/BLACK "E15"
MIDGRADE	BLUE
MIDGRADE W/NO ETHANOL	BLUE W/WHITE "O"
PREMIUM	RED
PREMIUM W/NO ETHANOL	RED W/WHITE "O"
DIESEL	YELLOW
DIESEL VAPOR BUCKET	BLACK
VAPOR RECOVERY	ORANGE
PRODUCT X	BLACK
PROBE	GRAY
ANNULAR / INTERSTITIAL	GRAY
OBSERVATION WELL	WHITE W/BLACK DIAMOND
STICK PORT	MATCH PRODUCT FILL

TANK NUMBERING	
TANK #1	15K UNLEADED 1
TANK #2	15K UNLEADED 2
TANK #3	15K E0
TANK #4	15K PREMIUM
TANK #5	15K DIESEL

A1 TANK APRON PLAN
1/4" = 1'-0"

STATE OF MISSOURI
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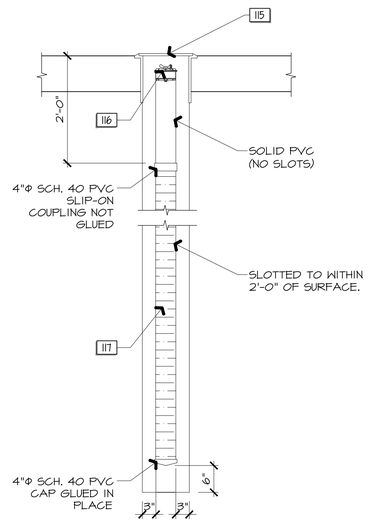
SHEET TITLE:
UST PLAN & SECTIONS

SHEET NUMBER:
XF203

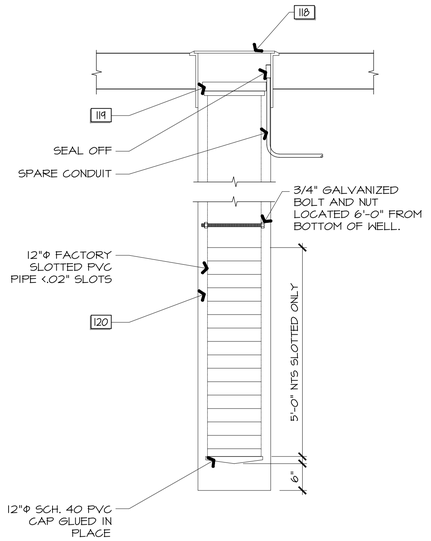
NOTES:

1. OBSERVATION WELL SHALL CONSIST OF 4 INCH DIA. SCHEDULE 40 PVC THREADED WELL MATERIAL.
2. WELL SHALL BE CONSTRUCTED WITH SCREEN TO WITHING 2'-0" OF SURFACE W/ FACTORY MANUFACTURED SLOT WIDTH OF .020.
3. THE REMAINDER OF THE WELL SHALL BE CONSTRUCTED OR 4" THREADED SCHED. 40 SOLID PVC RISER MATERIAL.
4. WELL SHALL EXTEND FROM 4" BELOW FINISH GRADE TO THE BOTTOM OF THE UST BASIN.
5. THE BOTTOM OF THE WELL SHALL BE PLUGGED USING 4" Φ. SCHEDULE 40 PVC END PLUG OR CAP.
6. THE WELL SHALL BE CAPPED USING AN INTERNAL TYPE EXPANDING WELL CAP.
7. THE WELL SHALL BE FINISHED USING AT MINIMUM AN 12" Φ. FLUSH MOUNT MANWAY COVER.
8. THE WELL SHALL BE COMPLETELY SURROUNDED BY GRAVEL BACK FILL MATERIAL. AT NO TIME SHALL THE WELL BE PLACED INTO OR FILLED BY SOIL MATERIAL.
9. OBSERVATION WELLS SHALL BE PLACED IN PAVED AREA. VERIFY LOCATION PRIOR TO PLACEMENT.



NOTES:

1. OBSERVATION WELL SHALL CONSIST OF 12" Φ. SCHEDULE 40 PVC THREADED WELL MATERIAL.
2. WELL SHALL BE CONSTRUCTED WITH ONE 5'X 12" SCREEN AT BOTTOM WITH A FACTORY MANUFACTURED SLOT WIDTH OF .020.
3. THE REMAINDER OF THE WELL SHALL BE CONSTRUCTED OF 12" THREADED SCHEDULE 40 SOLID PVC RISER MATERIAL.
4. WELL SHALL EXTEND FROM 4" BELOW FINISH GRADE TO THE BOTTOM OF THE UST BASIN.
5. THE BOTTOM OF THE WELL SHALL BE PLUGGED USING 12" Φ SCHEDULE 40 PVC END PLUG OR CAP.
6. THE WELL SHALL BE CAPPED USING AN INTERNAL TYPE EXPANDING WELL CAP.
7. THE WELL SHALL BE FINISHED USING AT MINIMUM AN 18" Φ FLUSH MOUNT MANWAY COVER.
8. THE WELL SHALL BE COMPLETELY SURROUNDED BY GRAVEL BACK FILL MATERIAL. AT NO TIME SHALL THE WELL BE PLACED INTO OR FILLED BY SOIL MATERIAL.
9. OBSERVATION WELLS SHALL BE PLACED IN PAVED AREA. VERIFY LOCATION PRIOR TO PLACEMENT.



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Lee's Summit, Missouri
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STATE OF MISSOURI
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SHEET TITLE:
OBSERVATION WELL DETAILS

SHEET NUMBER:
XF204

A1 — 4" OBSERVATION WELL DETAIL
3/4" = 1'-0"
A9/J9-XF203 A1/J1-XF402 A1-XF412

A9 — 12" OBSERVATION WELL DETAIL
3/4" = 1'-0"
J9-XF203 J1-XF402 A1-XF412

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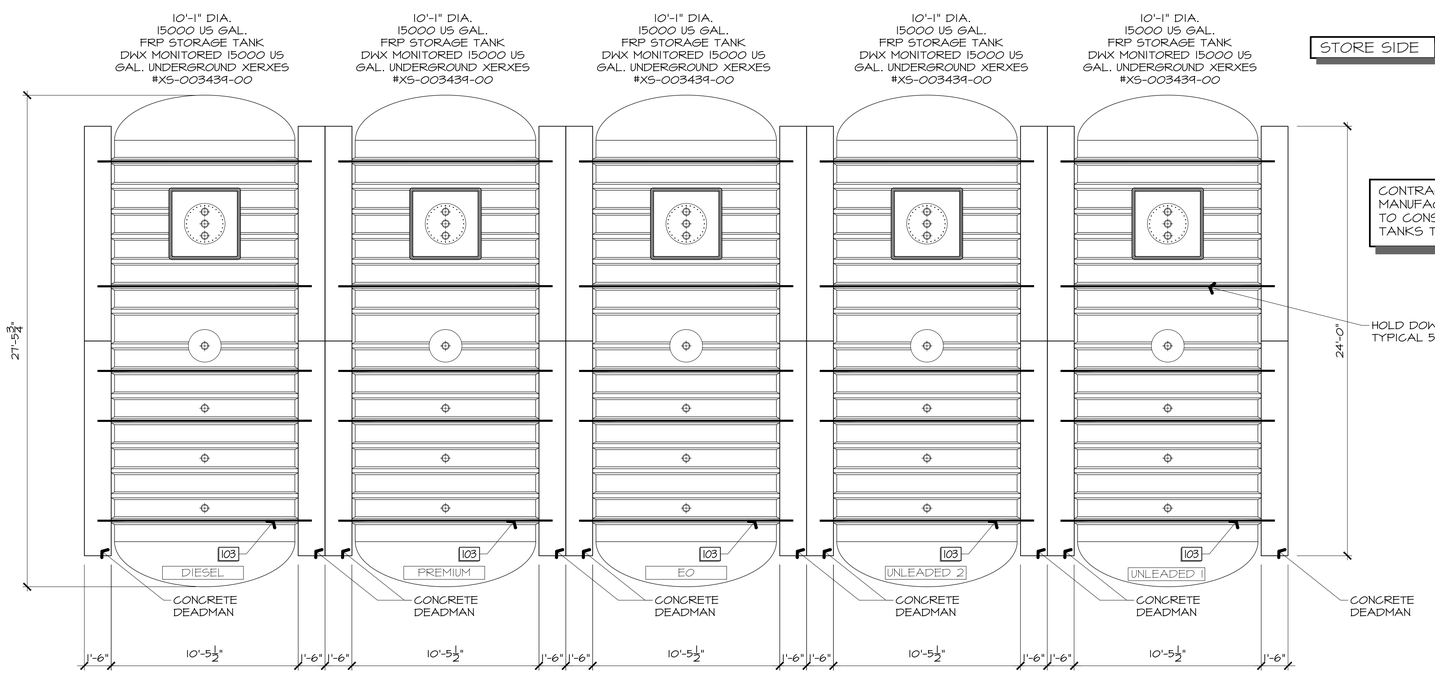
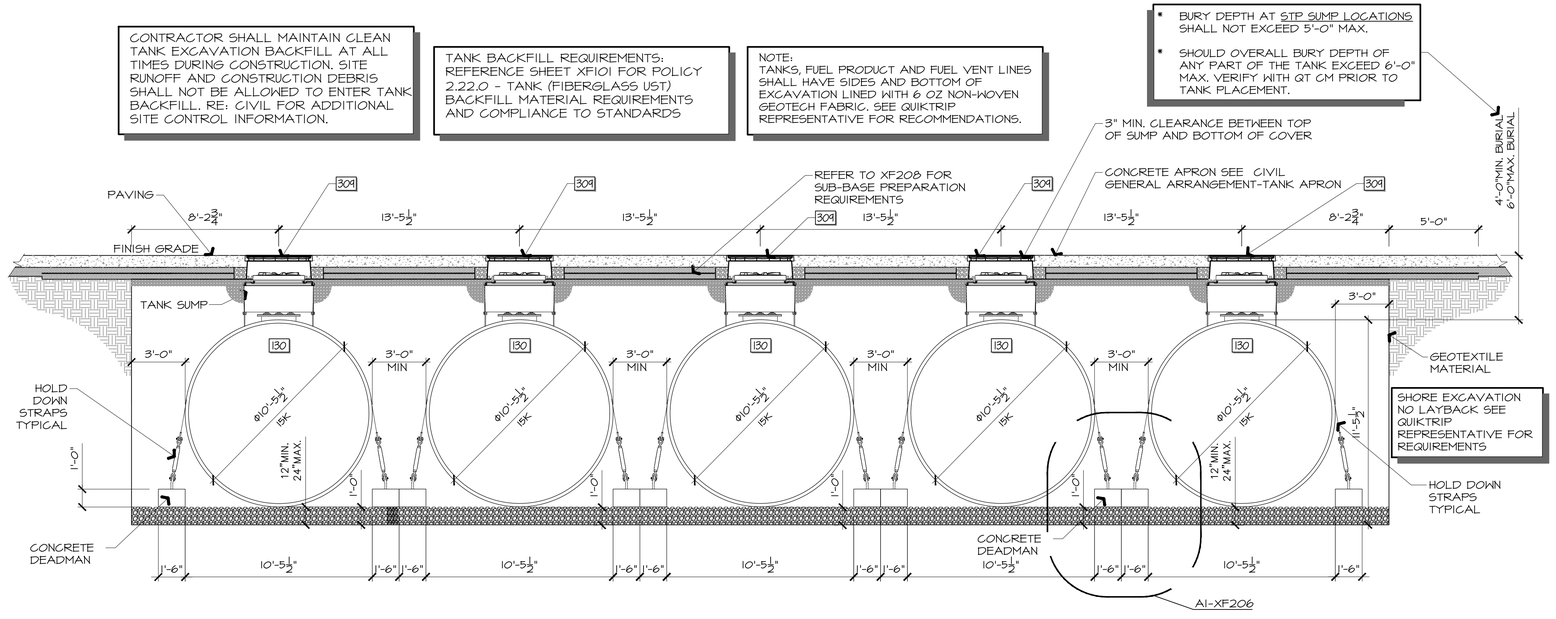


H1 TANK AND DEADMAN PLAN

1/4" = 1'-0"

A1-XF203



A1 TANK ANCHORING PLAN

1/4" = 1'-0"

CONTRACTOR SHALL PROVIDE TANK EXCAVATION HOLE PROTECTION AT ALL TIMES UNTIL PAVING IS IN PLACE PER OSHA STANDARD 1910. COVERS AND/OR GUARDRAILS SHALL BE PROVIDED TO PROTECT PERSONNEL FROM THE HAZARDS OF OPEN PITS, TANKS, VATS, DITCHES, ETC.

1. BURY DEPTH MAY VARY, CONSULT PLANS FOR ACTUAL DEPTH OF TANK SHELF.
   * BURY DEPTH AT STP SUMP LOCATIONS SHALL NOT EXCEED 5'-0" MAX.
   * SHOULD OVERALL BURY DEPTH OF ANY PART OF THE TANK EXCEED 6'-0" MAX. VERIFY WITH QT CM PRIOR TO TANK PLACEMENT.
2. SEE PAVING PLAN AND ASSOCIATED DETAILS FOR PAVEMENT AND BASE DEPTH.
3. LINE EXCAVATION W/6 OZ NON-WOVEN GEOTECH FABRIC - OVERLAP TOP COURSE.
4. EXTEND GEOTECH FABRIC 5'-0" BEYOND EDGE OF TANK PIT AND COVER W/AGGREGATE BASE.
5. PLATE COMPACT FILL MATERIAL WHEN AT SUB GRADE.

NOTES:

A. THE CONTRACTOR SHALL PROVIDE APPROPRIATE EXCAVATION SUPPORT (i.e. ENGINEERED SHEETING AND SHORING) TO FURNISH SAFE CONDITIONS.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL UNDERGROUND FRP STORAGE TANKS BE INSTALLED ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS AND MANUFACTURER'S SPECIFICATIONS.

GEOTECHNICAL CONSTRUCTION NOTE:

SEE GEOTECHNICAL SOIL REPORT FOR SUBGRADE PREPARATION RECOMMENDATIONS FOR FOOTINGS, TRENCHES, APRONS, TANKS AND SURFACE TREATMENTS.

STATE OF MISSOURI
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SHEET TITLE:

UST DEADMAN & BURIAL DETAILS

SHEET NUMBER:

XF205

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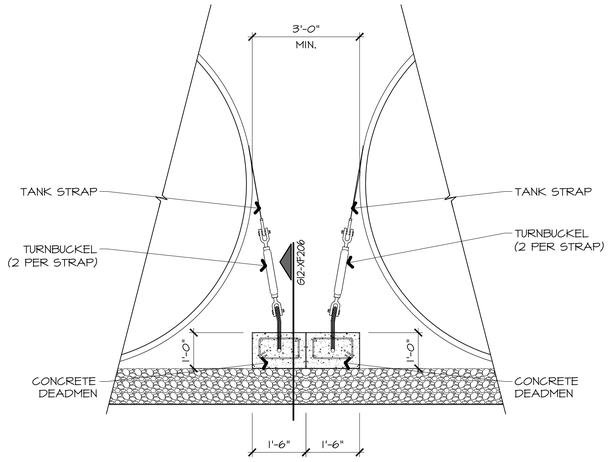
03/03/2025



NOTE:

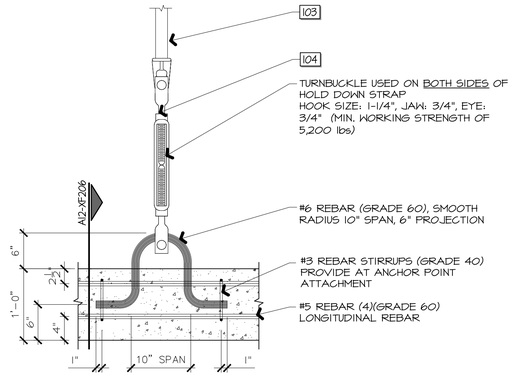
ALL EXPOSED METAL ON ANCHORING SYSTEM AND TURNBUCKLES MUST BE GALVANIZED TO PROTECT AGAINST CORROSION.

NOTES:

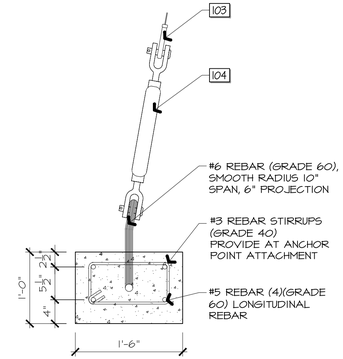
1. MECHANICAL TANK ANCHORING IS REQUIRED FOR ALL TANK INSTALLATIONS. ANCHORS/DEADMEN TO BE DESIGNED BY TANK MANUFACTURER AND ARE TO BE INSTALLED PER TANK MANUFACTURER'S SPECIFICATIONS.
2. DEADMAN TO BE PROVIDED BY GENERAL CONTRACTOR OR PROVIDED BY QUIKTRIP AT GENERAL CONTRACTORS REQUEST. GENERAL CONTRACTOR TO COORDINATE WITH QUIKTRIP REPRESENTIVE.
3. USE ONLY TANK MANUFACTURER'S SPECIFIED ANCHOR STRAPS. NUMBER AND LOCATION IN ACCORDANCE WITH TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. ALL HOLD-DOWN STRAPS MUST BE UNIFORMLY TIGHTENED. STRAPS MUST BE TIGHTENED UNTIL SNUG, BUT CAUSE NO DEFLECTION OF THE TANK.
5. WIRE ROPE ANCHORS OVER THE TANKS ARE NOT ACCEPTABLE AS A MEANS OF ANCHORING TANKS, UNLESS WRITTEN CONFIRMATION IS RECEIVED FROM TANK MANUFACTURER AND OWNER AS AN ALTERATIVE METHOD.

ALL EXPOSED METAL ON ANCHORING SYSTEM AND TURNBUCKLES MUST BE GALVANIZED TO PROTECT AGAINST CORROSION.

WORKING STRENGTH
SAFETY FACTOR OF 5.0 REQUIRED



G12 | TANK ANCHORING HARDWARE
1" = 1'-0" | A1-XF206



A1 | TYPICAL TANK ANCHORING HARDWARE
1/2" = 1'-0" | A7-XF205

A12 | TANK ANCHORING HARDWARE EDGE OF TANK
1" = 1'-0" | G12-XF206

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SHEET TITLE:
UST DEADMAN & BURIAL DETAILS

SHEET NUMBER:
XF206

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Lee's Summit, Missouri
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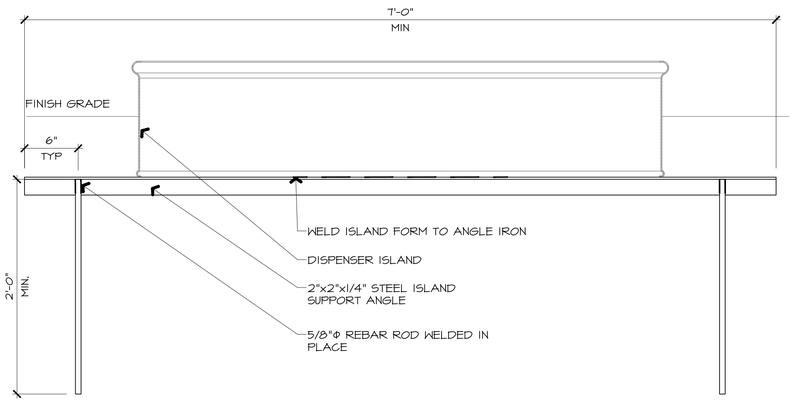
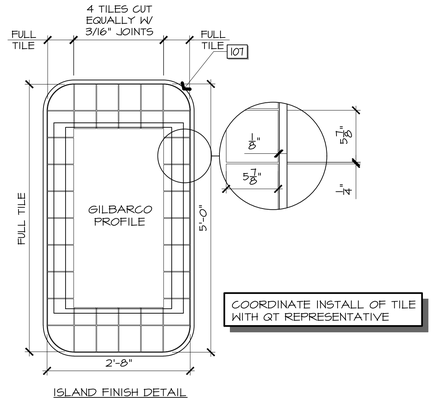
NOTE:
- DRIVE 5/8" REBAR ROD 2'-0" MINIMUM BELOW ISLAND TO SUPPORT 2"X2" ANGLE AND WELD IN PLACE.
- PLACE 2" ANGLE SUPPORT UNDER ISLAND FORM TO SET PROPER LEVEL AND DEPTH AS REQUIRED.
- THE USE OF WOOD ISLAND SUPPORTS ARE NOT ACCEPTABLE.



H1 ISLAND SUPPORT FRAME
1 1/2"=1'-0"

NOTES:
1. 6x6 CERAMIC TILE TO BE CENTERED IN BOTH DIRECTIONS.
2. TILE NEEDS TO EXTEND A MINIMUM OF ½" UNDER BASE OF DISPENSERS.

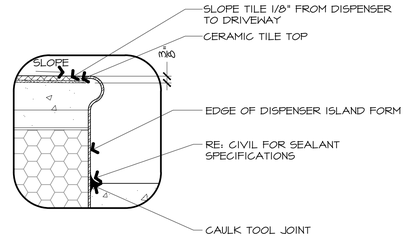
GAS ISLAND TILE & GROUT: RE: XF101 FOR SPECIFICATIONS



COORDINATE INSTALL OF TILE WITH QT REPRESENTATIVE

ISLAND FINISH DETAIL

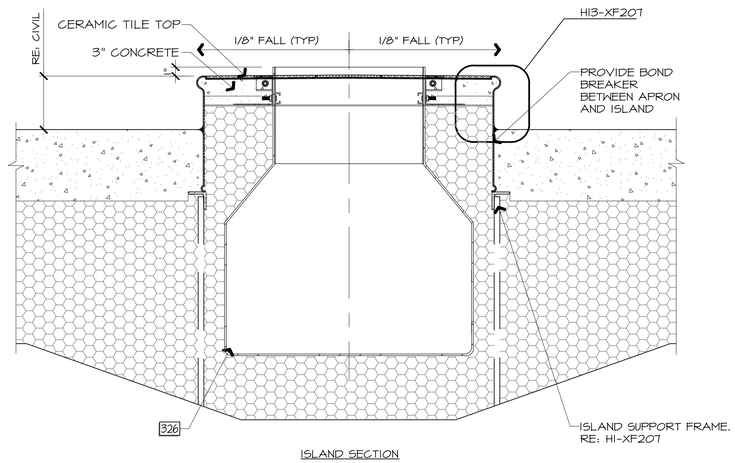
H7 ISLAND FINSH DETAIL
3/4"=1'-0"



H13 ISLAND SECTION DETAIL
3"=1'-0"
A1-XF207

GEOTECHNICAL CONSTRUCTION NOTE:
SEE GEOTECHNICAL SOIL REPORT FOR SUBGRADE PREPARATION RECOMMENDATIONS FOR FOOTINGS, TRENCHES, APRONS, TANKS AND SURFACE TREATMENTS.

ALL ISLAND TO BE AT LOWEST HEIGHT OF 6 INCHES AND AT THE HIGHEST HEIGHT BEING 6-1/2 INCHES WITH NO EXCEPTION.



ISLAND SECTION

A1 ISLAND SECTION
1 1/2"=1'-0"

PIPE:
STEEL PIPE TO BE SCH. 40. ALL PIPING AND GLUE TO BE ALCOHOL COMPATIBLE, WHERE REQUIRED.

ALL PIPE AND PIPING SHALL BE AS NOTED ON DRAWINGS. SPACE PIPING IN TRENCHES AS PER MANUFACTURER'S SPECIFICATION.

All PIPING SHALL BE INSPECTED/CONFIRMED TO BE CLEAR OF ALL BEDDING MATERIAL, TRASH, ANY TYPE OF LIQUID OR DEBRIS PRIOR TO AND AFTER INSTALLATION.

PIPE JOINT SEAL:
U.L. CLASSIFIED PIPE THREAD SEALANT FOR USE ON ALL STEEL PIPE FITTINGS AND THREADED METAL CONNECTIONS. NON-HARDENING, NON-TOXIC. COMPATIBLE WITH ALL SPECIFIED PIPING. RESISTANT TO GASOLINE, ETHANOL BLENDED GASOLINE UP TO E85, DIESEL FUEL, & PETROLEUM SOLVENTS. TEMPERATURE RANGE SHALL BE -100°F TO 600°F. PRESSURE RANGE: UP TO 10,000 PSI WHEN SEALING LIQUIDS AND UP TO 3,000 PSI WITH GASES.

TANK VENTS:
ALL TANK VENTS SHALL BE 2" MIN.

SLOPE:
ALL PRODUCT PIPING MUST BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PER SPECIFIC STATE REQUIREMENTS.
VENT LINE MUST SLOPE ⅛" PER FOOT TOWARDS TANK.
ALL PRODUCT PIPING MUST SLOPE ⅛" PER FOOT TOWARD TANK, DISPENSER SUMP OR A COLLECTION SUMP.
OKLAHOMA ONLY - PRODUCT LINES TO BE SLOPED TO THE TANK FARM FROM THE NEAREST DISPENSER TO THE TANKS.

PIPE TESTING:
ALL PRIMARY AND SECONDARY, & VENT FRP PIPING SHALL BE PRESSURIZED AND TESTED PER MANUFACTURER'S REQUIREMENTS. PRESSURE SHALL BE MAINTAINED AFTER THE TESTING IS COMPLETE FOR THE DURATION OF THE PROJECT TO INSURE SYSTEM REMAINS TIGHT.

BACKFILL:
BACKFILL OVER PRODUCT AND VENT LINES IN TRENCH SHALL BE CLEAN COMPACTED PEA GRAVEL, CRUSHED GRAVEL. PIPING SHALL BE LAID AND CONTINUOUSLY SUPPORTED ON 6" OF COMPACTED APPROVED MATERIAL. NO PIPING SHALL BE SUPPORTED BY BLOCKS, PLANKS OR OTHER DEBRIS.

CONCRETE:
CONCRETE USED SHALL MEET QUIKTRIP STANDARD SPECS. SEE CIVIL DRAWINGS FOR DETAILS.

SUMP UNITS:
TURBINE ENCLOSURE/TANK SUMPS ARE TO BE SEALED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GENERAL INSTALLATION :
1. PEA GRAVEL OR CRUSHED GRAVEL BACKFILL. MUST BE APPROVED BY TANK MANUFACTURER AND OWNER'S FIELD REPRESENTATIVE.
2. RIGID STYROFOAM BOARD FIELD CUT TO SUPPORT MANWAY DURING INSTALLATION.
3. REINFORCING BARS TO BE A MAXIMUM OF 3" FROM TOP OF CONCRETE.
4. SEAL AND PLUG UNUSED OPENINGS.
5. OBSERVATION WELL DEPTH SHALL BE TO THE BOTTOM OF TANK EXCAVATION UNLESS OTHERWISE NOTED. WELLS SHALL BE PLACED IN PAVED AREA.
6. PROVIDE 6" CLEARANCE BETWEEN MANWAY LID AND TOP OF RISER FOR TANK GAUGE.
7. PROVIDE 6" CLEARANCE BETWEEN TOP OF MONITORING/OBSERVATION WELL CAP PLUG AND GRADE.
8. ALL PENETRATIONS MUST BE PERPENDICULAR TO FLAT SIDE OF CONTAINMENT SUMPS.
9. CUT AND POSITION FILL TUBE WITH ANGLE AWAY FROM SUBMERSIBLE PUMP.
10. INTERIOR OF FIBERGLASS CONTAINMENT SUMP TO BE CLEAR OF PEA GRAVEL, TRASH, ANY TYPE OF LIQUID AND OTHER DEBRIS.
11. REAM ALL RISERS FOR FULL PIPE BORE.
12. 4" RISER FOR UNLEADED GASOLINE & ETHANOL BLENDS STORAGE TANKS SHALL BE 4" FRP. 4" RISERS FOR STORAGE TANKS CONTAINING DIESEL SHALL BE 4" FRP.
13. ANNULAR SPACE RISER: 4" FRP.
14. CONCRETE DEADMAN, TURNBUCKLES, AND OTHER ANCHORING HARDWARE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH TANK MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AS SHOWN. (IF REQUIRED) SEE QUIKTRIP REPRESENTATIVE FOR DIRECTION.

A12 INSTALLATION NOTES
--

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DAVID MICAH LEIFFER
NUMBER 2013011214
PROFESSIONAL ENGINEER
11/25/2024
SIGNATURE DATE:

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PROTOTYPE	P-120
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DATE	11-01-2024

REV	DATE	DESCRIPTION

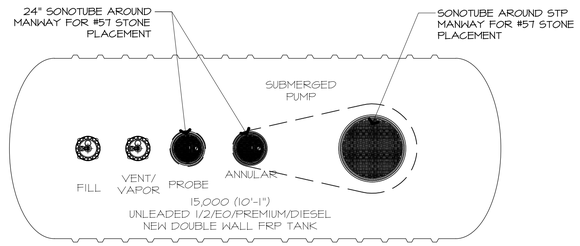
ORIGINAL ISSUE DATE: 11/25/2024

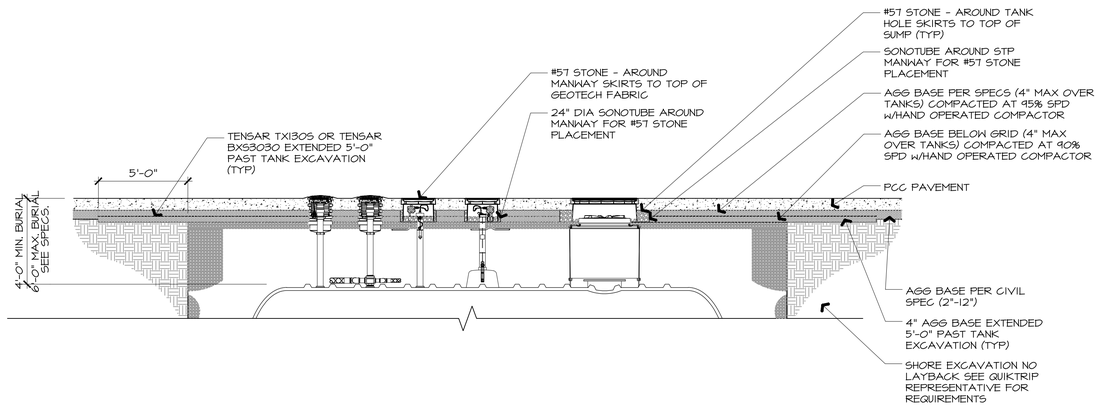
SHEET TITLE:
ISLAND DETAILS AND INSTALLATION NOTES

SHEET NUMBER:
XF207

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/03/2025

J1 NOT USED





A1 STANDARD TANK BACKFILL SECTION

STATE OF MISSOURI
DAVID MICAH LEIFFER
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PROFESSIONAL ENGINEER
11/25/2024

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
UST AREA SUB-BASE PREP PLAN AND SECTIONS

SHEET NUMBER:
XF208

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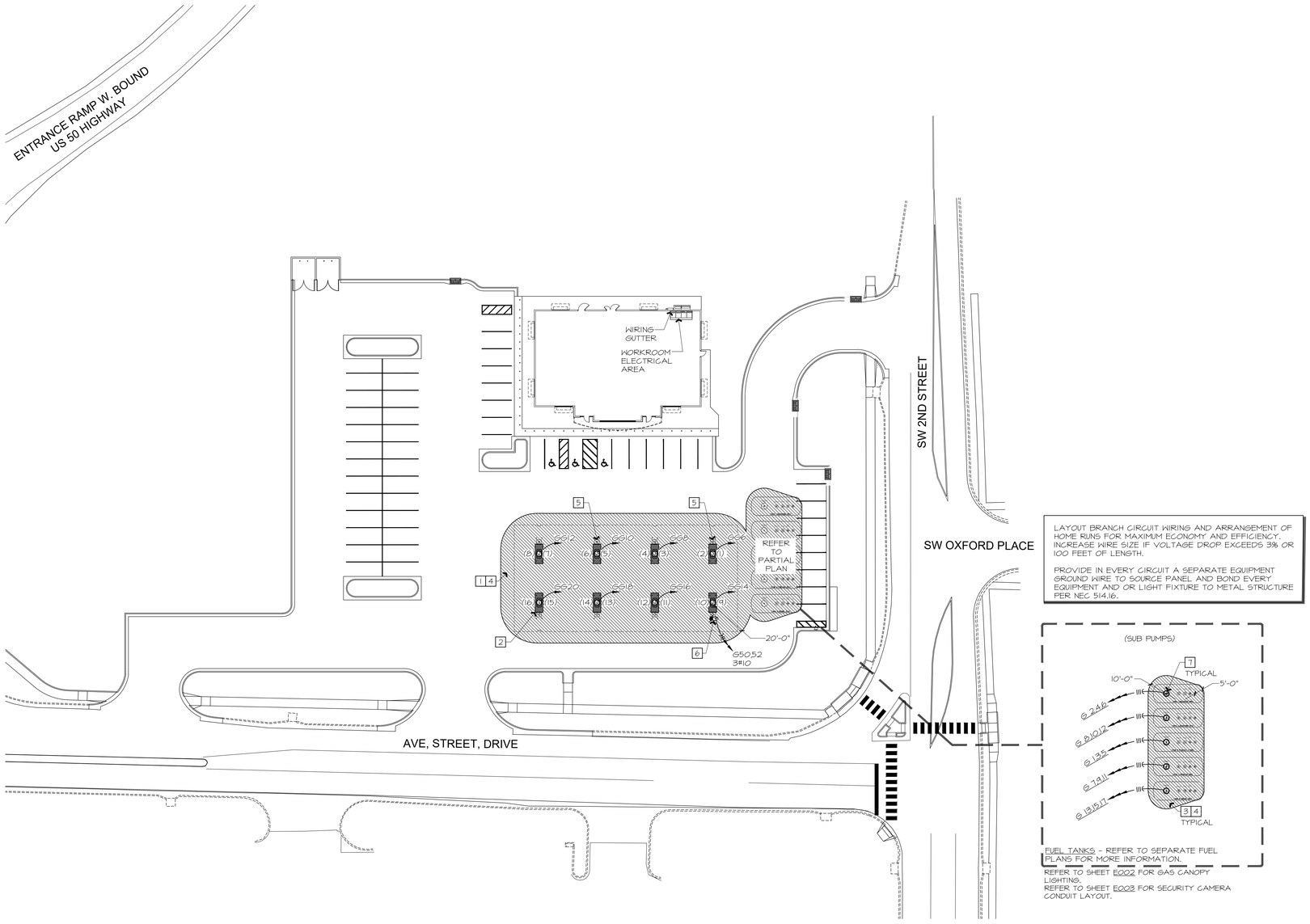
Development Services Department
Lee's Summit, Missouri
03/03/2025



LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF VOLTAGE DROP EXCEEDS 3% OR 100 FEET OF LENGTH.

PROVIDE IN EVERY CIRCUIT A SEPARATE EQUIPMENT GROUND WIRE TO SOURCE PANEL AND BOND EVERY EQUIPMENT AND OR LIGHT FIXTURE TO METAL STRUCTURE PER NEC 514.16.

FUEL TANKS - REFER TO SEPARATE FUEL PLANS FOR MORE INFORMATION.

REFER TO SHEET E002 FOR GAS CANOPY LIGHTING.

REFER TO SHEET E003 FOR SECURITY CAMERA CONDUIT LAYOUT.

REFER TO CIVIL PLAN SET FOR PLACEMENT OF ALL FUEL RELATED STRUCTURES AND EQUIPMENT.

1. CLASS I, DIVISION 2 AREA WITHIN 18" OF ANY EDGE OF THE DISPENSER TO GRADE AND FROM GRADE TO 18" ABOVE GRADE WITHIN 20' OF ANY EDGE OF THE DISPENSER.
2. CLASS I, DIVISION 1 AREA WITHIN THE DISPENSER ENCLOSURE AND WITHIN THE PIT BELOW THE DISPENSER. (TYP)
3. CLASS I, DIVISION 2 AREA WITHIN 10'-0" OF PUMPS OR FILL OPENINGS FROM GRADE TO 18" ABOVE GRADE.
4. SEAL EACH CONDUIT ENTERING THE CLASS I (DIVISION 1 OR 2) LOCATION AT THE POINT WHERE IT EXITS THE GROUND. (BOTH ENDS)
5. EMERGENCY FUEL SHUTOFF WITHIN 100' OF DISPENSERS. REFER TO DETAIL A4-XF311, PROVIDE PERMANENT WHITE ALUMINUM LABEL WITH 1" HIGH RED LETTERING ON WHITE BACKGROUND ON WRAPPED COLUMN ABOVE SWITCH THAT SAYS, "EMERGENCY PUMP SHUT-OFF SWITCH". (LOCATION SHOWN IS OPTIONAL - COORDINATE WITH QT REP.)
6. SUMP VENTILATION FAN FURNISHED BY OTHERS. VERIFY EXACT LOCATION WITH FUEL SYSTEM DRAWINGS, PROVIDE NEMA-3R MOTOR STARTER/DISCONNECT SWITCH FOR 3/4 HP, 208V/1PH FAN ON CANOPY ROOF. MAKE ELECTRICAL CONNECTIONS AS REQUIRED. CIRCUIT TO SHUT DOWN WITH E-STOP SYSTEM, SENSOR IN ALARM, AND PLLD IN ALARM.
7. PROVIDE (1) SEPARATE #10 GROUND WIRE FROM BUILDING GROUND BUS TO EACH PLLD IN A NON-INTRINSICALLY SAFE CONDUIT. PROVIDE (1) GROUNDING KIT #330020-285 FOR EACH PLLD. REFER TO A1-XF313 AND VEEDER-ROOT MANUAL NO. 577014-012 FOR ADDITIONAL INFORMATION.

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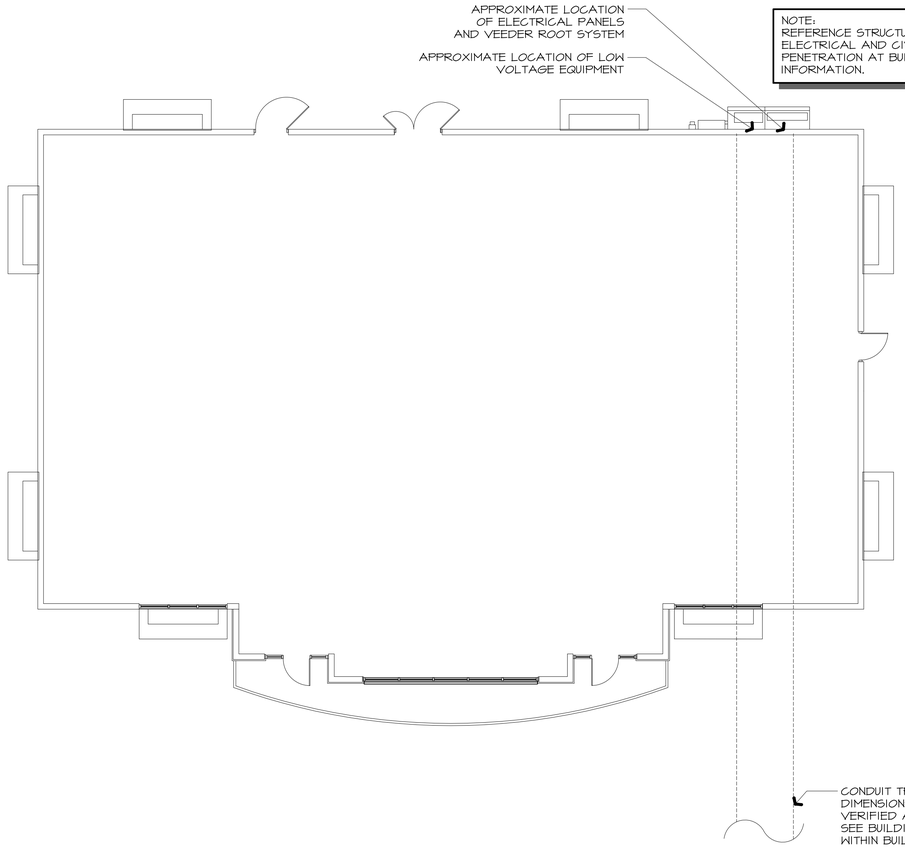
ORIGINAL ISSUE DATE: 11/25/2024

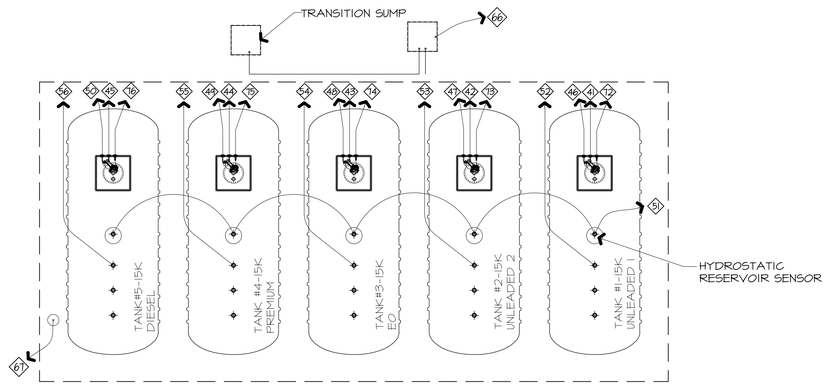
SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
XF300

A1 ELECTRCIAL SITE PLAN
1/32" = 1'-0"

A13 PLAN NOTES
NTS





TANK NUMBERING	
TANK #1	15K UNLEADED 1
TANK #2	15K UNLEADED 2
TANK #3	15K EO
TANK #4	15K PREMIUM
TANK #5	15K DIESEL

RETAIL/GASOLINE CONDUIT SCHEDULE

NUMBER	DESCRIPTION (TRADE SIZE)	WIRE COUNT PER CONDUIT	TERMINATES TO
1 TO 12 (8 TOTAL)	DISPENSER POWER (3/4") (HOME RUN)	(2)#12, (1)#12G - DISPENSER POWER @ ALL LOCATIONS --- (5)#12 STP CONTROLLER WIRES TOTAL @ ALL LOCATIONS (1) FUTURE @3+1	MAIN ELEC. TROUGH MAIN ELEC. TROUGH
13 TO 24 (8 TOTAL)	DISPENSER DATA (3/4") (HOME RUN)	WINDY CITY WIRE: TWISTED PAIR (VIOLET/BROWN) #032051-1012QT	L.V. ELEC. TROUGH
25 TO 36 (8 TOTAL)	DISPENSER SUMP SENSORS (3/4") (HOME RUN)	(1) #18 WINDY CITY 18 AWG SHIELDED CABLE	I/S WIRING TROUGH
37 - 40 (4 TOTAL)	DISPENSER INTERCOM (1" HR - 1" LOOP) (3 DISPENSERS MAX)	(UP TO 6) BELDEN 6502FE (1 PER DISPENSER)	L.V. ELEC. TROUGH
41 TO 45 (5 TOTAL)	STP CTRL/POWER- (3/4") UNLEADED #1 UNLEADED #2 EO PREMIUM DIESEL (HOME RUN)	(3) #10 STP POWER, (1) #10 GROUND	DEDICATED CONDUIT BACK TO STP CONTROLLERS
46 TO 50 (5 TOTAL)	PLLD / (1) SUMP SENSOR (3/4") (1) CONDUIT PER TANK (HOME RUN)	(2) WINDY CITY 18 AWG SHIELDED CABLE	I/S WIRING TROUGH
51	HYDROSTATIC RESERVOIR SENSOR (3/4")	(1 PER TANK) 18 WINDY CITY 18 AWG SHIELDED CABLE	I/S WIRING TROUGH
52 TO 56 (5 TOTAL)	UST ATG PROBE (3/4")	(1) WINDY CITY 18 AWG SHIELDED CABLE	I/S WIRING TROUGH
57	CANOPY LIGHTING CONDUITS (1") (HOME RUN)	CANOPY LIGHTING = RE: ARCH MEP	MAIN ELEC. TROUGH
58 - 59 (2 TOTAL)	FUTURE POWER CONDUITS (1") (ROUTE TO JBOX @TOP OF CANOPY)	PULL STRING TO DECK	MAIN ELEC. TROUGH
60 - 61 (2 TOTAL)	FUTURE LOW VOLTAGE CONDUITS (1") (ROUTE TO PULL BOX)	PULL STRING TO PULL BOX	I/S WIRING TROUGH
62 - 63 (2 TOTAL)	FUTURE DATA CONDUITS (1") (ROUTE TO PULL BOX)	PULL STRING TO PULL BOX	L.V. ELEC. TROUGH
64	CANOPY GROUND WIRE (1-1/4") (ROUTE TO JBOX @TOP OF CANOPY)	#3/0 GROUNDING WIRE. REF:E001	MAIN ELEC. "T" PANEL
65	SUMP VENT CIRCULATION FAN	FAN = (3) #12 POWER, (1) #12 GROUND	MAIN ELEC. TROUGH
66	TRANSITION SUMP SENSOR (3/4")	(1) #18 WINDY CITY 18 AWG SHIELDED CABLE	I/S WIRING TROUGH
67	OBSERVATION WELL SPARE (3/4")	PULL STRING	I/S WIRING TROUGH
68	EMERGENCY SHUTOFF (3/4")	FIELD DETERMINED (RE ARCH.)	MAIN ELEC. TROUGH
69	CANOPY LIGHTING CONDUITS (1") (HOME RUN)	CANOPY LIGHTING = RE: ARCH MEP	MAIN ELEC. TROUGH
70 - 71 (2 TOTAL)	SECURITY CAMERA HOMERUN (1")	FIELD DETERMINED	FIELD DETERMINED
72 - 16 (5 TOTAL)	PLLD GROUND (3/4")	#10 AWG GROUND THWN2 (1 PER PLLD)	PLLD & TLS GROUND BARRIER

NOTE:
ALL FUTURE USE CONDUITS SHALL EXTEND 12 INCHES ABOVE CANOPY DECK AND BE SEALED WITH WEATHER PROOF JUNCTION BOX.

NOTE:
WINDY CITY WIRE CONTACT INFORMATION:
KIMBERLY DePAOLA
1.800.379.1191
KDEPAOLA@SMARTWIRE.COM

NOTE:
WINDY CITY WIRE TO BE PROVIDED BY QUIKTRIP.

A1 — CONDUIT LAYOUT - UST (TANK) AREA
1/8" = 1'-0"

A10 — ELECTRICAL CONDUIT SCHEDULE

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/01/2025

STATE OF MISSOURI
JOHN DALE CROSS
NUMBER PE-2009014085
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DATE	11-01-2024

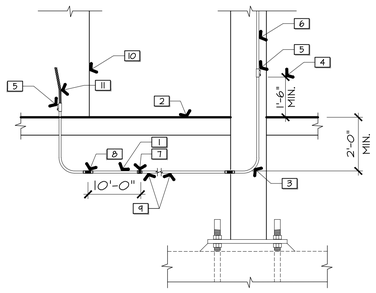
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
UST AREA CONDUIT LAYOUT

SHEET NUMBER:
XF301

NOTE:
ANY EXPOSED PVC COATED RIGID STEEL CONDUIT SHALL BE COATED WITH PLASTI-BOND EPOXY TOUCH UP COMPOUND AT CONNECTIONS.



1. PVC COATED RIGID STEEL CONDUIT 10'-0" HORIZONTALLY FROM BUILDING.
2. FINISHED GRAD.
3. TURN CONDUIT UP INSIDE CANOPY COLUMN.
4. COORDINATE WITH CANOPY MANUFACTURER HEIGHT OF ACCESS PANEL REQUIRED (18" MIN).
5. SEAL FITTING WHERE REQUIRED & SPECIFIED.
6. RIGID STEEL CONDUIT TO CANOPY DECK, SIZE AS NOTED ON SCHEDULE.
7. PVC FEMALE ADAPTER W/ ROBROY SEALING LOCK RING. (REFER TO XF-304/A1)
8. ROYROY PVC COATED RIGID METAL CONDUIT. SIZE AS NOTED ON SCHEDULE. (REFER TO XF-304/A1)
9. NON-METALLIC CONDUIT (RIGID PVC) SIZE AS NOTED ON SCHEDULE.
10. ELECTRICAL DISTRIBUTION EQUIPMENT.
11. ELECTRICAL CIRCUIT WIRING.

CONDUITS CONDITIONS
1. STP/TURBINE POWER
CONDUIT FROM THE BUILDING TO THE TANK PIT FOR TURBINE POWER SHALL BE PVC COATED RIGID STEEL CONDUIT WITH PVC COATED CONDUIT COUPLINGS, FULL LENGTH.

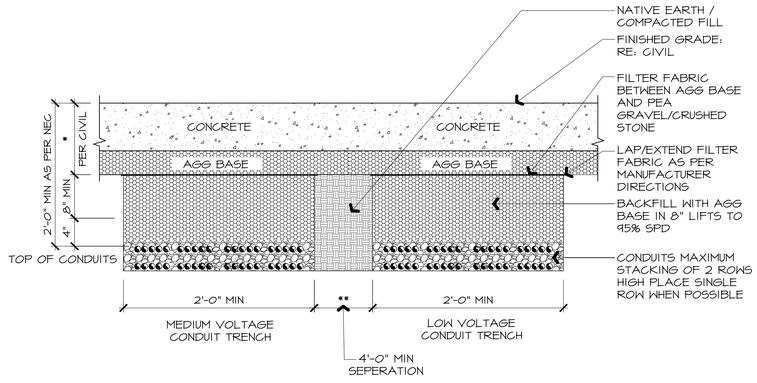
2. TANK FARM AREA
FOR TANK FARM EQUIPMENT. PVC COATED RIGID STEEL CONDUIT SHALL BE USED FOR THE FIRST PIECE OF EXPOSED CONDUIT WITHIN THE BUILDING, TRANSITIONING TO SCH. 40 PVC TO WITHIN 10' OF THE TANK FARM EQUIPMENT WHERE THE CONDUIT SHALL TRANSITION TO PVC COATED RIGID STEEL FOR THE PENETRATIONS OR CONNECTION TO JBOX.

3. DISPENSER AREA
FOR DISPENSERS. PVC COATED RIGID STEEL CONDUIT SHALL BE USED FOR THE FIRST PIECE OF EXPOSED CONDUIT WITHIN THE BUILDING, TRANSITIONING TO SCH. 40 PVC TO WITHIN 10' OF THE DISPENSER AND/OR TRANSITION SUMPS, WHERE THE CONDUIT SHALL TRANSITION TO PVC COATED RIGID STEEL FOR THE PENETRATIONS.

4. CANOPY AREA:
FOR CANOPY, PVC COATED RIGID STEEL CONDUIT SHALL BE USED FOR THE FIRST PIECE OF EXPOSED CONDUIT WITHIN THE BUILDING, TRANSITIONING TO SCH. 40 PVC FOR ALL CONNECTIONS TO THE CANOPY.

H1 CONDUIT STUB-UP DETAIL

N.T.S.



WHEN PLACING ELECTRICAL CONDUITS FROM THE TANK PIT TO THE BUILDING, THIS SPECIFICATION SHALL BE FOLLOWED TO INSURE RUNOFF IS NOT INTRODUCED INTO THE TANK PIT, OR OUT OF THE TANK PIT AND TOWARD THE BUILDING.

CONTRACTOR NOTE:
CONTRACTOR TO SEPARATE MEDIUM VOLTAGE AND LOW VOLTAGE CONDUITS INTO SEPARATE CONDUIT TRENCHES.

CONTRACTOR NOTE:
ELECTRICAL CONDUIT TRENCH FILTER FABRIC NOT NEEDED IF AGG BASE IS USED FOR THE ENTIRE BACKFILL.

A1 ELECTRICAL CONDUIT TRENCH SECTION FROM TANK PIT TO BUILDING

N.T.S.

GENERAL INFORMATION

1. SITE PREPARATION :

A. CONTRACTOR IS TO ENSURE ALL EXISTING UTILITIES ARE LOCATED AND MARKED PRIOR TO ANY DEMOLITION, CONSTRUCTION OR EXCAVATION ON THE SITE.

2. EQUIPMENT :

A. ALL EQUIPMENT INSTALLATIONS MUST COMPLY WITH MANUFACTURER'S SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF N.E.C. LATEST EDITION AND NFPA 30A. ALL COMPONENTS FOR ELECTRICAL INSTALLATIONS MUST BE UL RATED, BEAR THE UL SEAL, AND COMPLY WITH N.E.C. ARTICLE 110-3, 514-3 AND 514-4. ALL WORKING CLEARANCES IN FRONT OF PANELS AND EQUIPMENT SHALL BE MAINTAINED.

B. THE WIRE SIZES SHALL BE INCREASED IF NECESSARY AS REQUIRED BY NEC. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING REVISED CONDUIT SIZE.

3. CONDUIT :

A. FOR EACH ELECTRICAL RACEWAY SYSTEM INDICATED, PROVIDE A COMPLETE ASSEMBLY OF CONDUIT WITH FITTINGS, INCLUDING , BUT NOT NECESSARILY LIMITED TO, CONNECTORS, NIPPLES, COUPLINGS, EXPANSION FITTINGS, BUSHINGS LOCKOUTS, OTHER COMPONENTS AND ACCESSORIES AS NEEDED TO FORM A COMPLETE SYSTEM OF THE TYPE INDICATED, AND AS REQUIRED BY THE NEC.

B. ALL CONDUIT WITHIN CLASS I AREA SHALL BE PVC COATED HEAVY WALL STEEL EXCEPT AS NOTED OTHERWISE ON THE DRAWINGS. PVC CONDUIT IS ACCEPTABLE FOR USE OUTSIDE CLASS I DIV I AREA. CONTRACTOR MAY SWITCH TO PVC CONDUIT OUTSIDE OF CLASS I AREA PROVIDED ALL INSTALLATIONS COMPLY WITH THE NATIONAL ELECTRICAL CODE AND NFPA 30A. ALL TRANSITION FITTINGS ARE TO BE UL APPROVED FOR DIRECT BURIAL. ALL CONDUIT SHALL BE FREE OF FOREIGN MATTER FROM OBSTRUCTING THE CONDUIT. ALL WIRING AND FITTINGS SHALL BE CLASS I, GROUP O, AS REQUIRED BY CODE. ALL REQUIRED SEAL- OFF FITTINGS SHALL BE PROPERLY SEALED. SEAL SHALL BE POURED AFTER TESTING PROCEDURES ARE COMPLETE.

C. CONDUIT RUNS EXCEEDING 25 FEET IN LENGTH SHALL BE EQUIPPED WITH SUITABLE WIRE INSERT TO ENABLE THE PULLING OF A FISH TAPE FOR ADDITIONAL WIRING.

D. WHERE APPLICABLE ALL CONDUIT SHALL BE RIGIDLY SUPPORTED FROM STRUCTURAL MEMBERS WITH MALLEABLE IRON CONDUIT CLAMPS. NOT TO EXCEED 8 FEET ON CENTER. ALL THREAD IS NOT ACCEPTABLE FOR MOUNTING, USE U-BOLTS INSTEAD.

E. PROVIDE CONDUIT AND FITTINGS AS INDICATED.
1. PVC COATED RIGID STEEL CONDUIT.
2. RIGID STEEL CONDUIT FITTINGS : ANSI C80.4.
3. FLEXIBLE METAL CONDUIT :
A. LIQUID-TIGHT FLEXIBLE METAL CONDUIT : LIQUID-TIGHT FLEXIBLE METAL CONDUIT COMPRISED OF SINGLE STRIP, CONTINUOUS, FLEXIBLE, INTERLOCKED, DOUBLE-WRAPPED STEEL, GALVANIZED INSIDE AND OUTSIDE. FORMING SMOOTH INTERNAL WIRING CHANNEL WITH LIQUID-TIGHT JACKET OF FLEXIBLE PVC.
B. LIQUID-TIGHT FLEXIBLE METAL CONDUIT FITTINGS: LIQUID-TIGHT, ZINC COATED
STEEL. PROVIDE FITTINGS BY CROUSE-HINDS, APPLETON OR EQUAL. FITTINGS SHALL HAVE RUBBER OR NEOPRENE GASKETS WHERE INSTALLED IN DAMP AREAS.
FITTINGS INSTALLED IN HAZARDOUS AREA SHALL COMPLY WITH NEC AND UL 885.

F. ALL PENETRATIONS THROUGH RATED WALL AND ROOF ASSEMBLIES MUST CONFORM TO UL STANDARD PENETRATION DETAIL, (SYSTEM #F-C-5010), NEC, AND ALL APPLICABLE LOCAL CODES.

G. ALL PENETRATIONS THROUGH RATED SLAB ASSEMBLIES MUST CONFORM TO UL STANDARD PENETRATION DETAIL,
(SYSTEM #C-AJ-1064), NEC, AND ALL APPLICABLE LOCAL CODES.

H. MAGNETIC SAFETY TAPE SHALL BE INSTALLED ABOVE ALL UNDERGROUND PRODUCT PIPING AND ELECTRICAL CONDUIT.

I. ALL CONDUIT LAYOUTS SHOWN ARE FOR REFERENCE ONLY. ACTUAL FIELD INSTALLATION MAY VARY DUE TO MECHANICAL PIPING INTERFERENCE.

4. CABLE AND WIRE CONNECTORS :

A. WIRE AND CABLE: PROVIDE FACTORY-FABRICATED WIRE AND CABLE OF THE SAME SIZE RATING, MATERIAL AND TYPE AS INDICATED FOR EACH USE, AS SPECIFIED OR UNLESS NOTED OTHERWISE.

B. CONDUCTORS: PROVIDE SOFT OR ANNEALED COPPER WIRES MEETING, BEFORE STRANDING, THE REQUIREMENTS OF ASTM B-3, STANDARD SPECIFICATIONS FOR SOFT OR ANNEALED COPPER WIRE FOR ELECTRICAL PURPOSES, LATEST EDITION.
1. CONDUCTORS FOR POWER AND CONTROL WIRING SHALL BE STRANDED COPPER.
NO ALUMINUM OR COPPER CLAD ALUMINUM WIRING IS PERMITTED.
2. THE MINIMUM SIZE FOR POWER WIRING IS #12 AWG UNLESS STATED OTHERWISE ON THE DRAWINGS.

C. INSTALLATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 83, STANDARD FOR THERMOPLASTIC INSULATION WIRES.
1. INSULATION FOR CONDUCTORS SIZED NO. 18 AWG THROUGH NO. 16 AWG SHALL BE UL TYPE TFFN GASOLINE AND OIL RESISTANT AND BE SO MARKED.
2. INSULATION FOR CONDUCTORS SIZED NO. 14 AWG THROUGH NO. 8 AWG SHALL BE UL TYPE THHN/THAN GASOLINE AND OIL RESISTANT AND BE SO MARKED.
3. ALL WIRING INSIDE LIGHTING FIXTURES SHALL BE TEMPERATURE RATED PER THE NEC.

D. CONNECTORS FOR BUILDING WIRE AND CABLE: PROVIDE FACTORY-FABRICATED, METAL CONNECTORS OF THE SIZE, RATING, MATERIAL TYPE, AND CLASS REQUIRED FOR EACH USE.
1. TERMINAL LUGS ARE TO BE USED WHENEVER POSSIBLE. CONNECTORS FOR CONDUCTORS UP TO A MAXIMUM OF NO. 6 AWG WIRE WITH TWO NO. 8 AWG WIRES MAY USE TWIST-ON PRESSURE CONNECTORS OF REQUIRED SIZE. LUGS/BOLTED CONNECTIONS ARE REQUIRED FOR ALL CONDUCTORS LARGER THAN #6 AWG.
2. ALL MOTOR LEADS, #10 AWG OR LARGER, SHALL BE CONNECTED USING PRESSURE FITTED LUGS AND BOLTED.
3. SPLICES ARE NOT PERMITTED IN FEEDERS, MOTOR LEADS, OR COMMUNICATION/DATA WIRING.
4. THE USE OF TERMINAL STRIPS FOR WIRING CONNECTIONS IS ENCOURAGED EXCEPT WHEN IN CONFLICT WITH #3 ABOVE.

5. WIRING NOTES :

DISPENSER POWER SUPPLY WIRING :

A. CONDUCTOR: #14 AWG (MINIMUM), USE WIRES RATED AT LEAST 90°C (194°F)

B. VOLTAGE RATING: MAXIMUM OPERATING VOLTAGE OF 600V

C. ENVIRONMENTAL: GAS AND OIL RESISTANT, UL LISTED WIRE; SUITABLE FOR WET OR DRY LOCATIONS

A7 GENERAL INFORMATION

N.T.S.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/31/2024

STATE OF MISSOURI
JOHN DALE
NUMBER
PE-2009014085
PROFESSIONAL ENGINEER
11/25/2024

SIGNATURE DATE:

CORE STATES GROUP
212 E 14th Street
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Bentonville, AR 72712
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corestates.com

QuikTrip No. 0183R

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PROTOTYPE	P-120
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VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

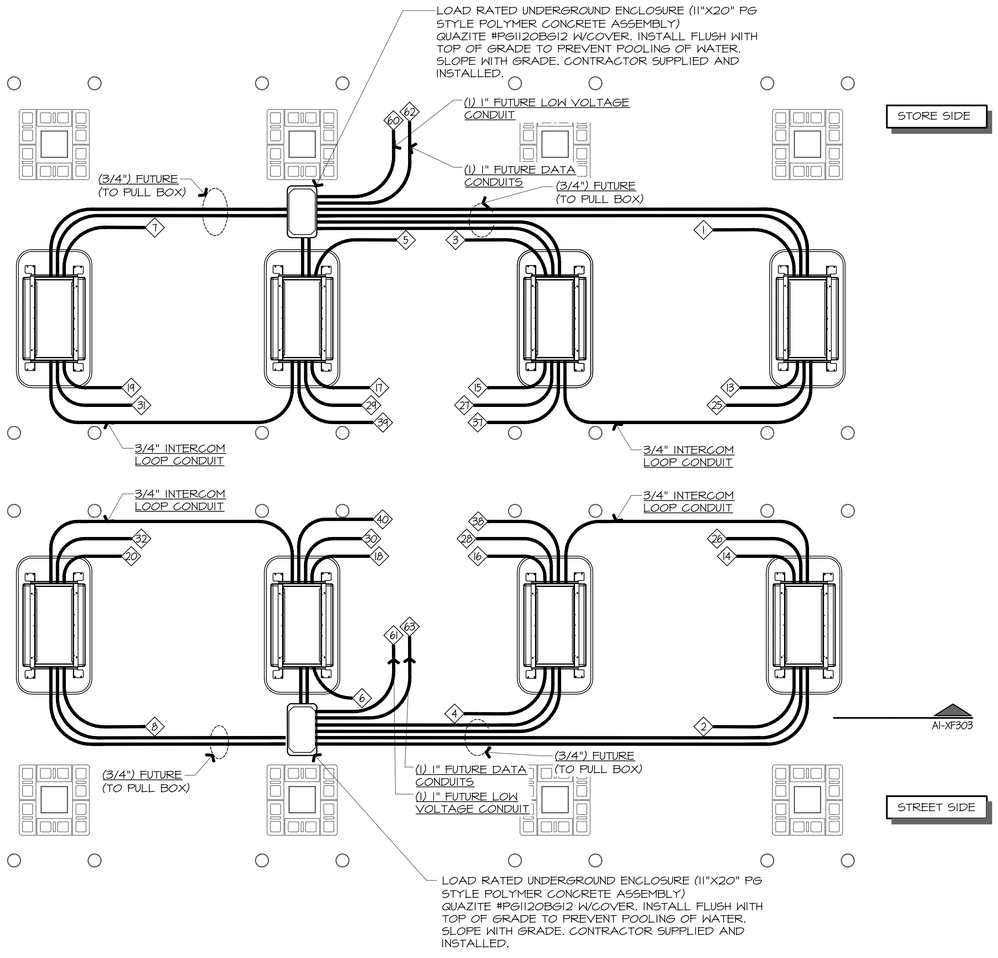
SHEET TITLE:
CONDUIT GENERAL INFORMATION & DETAILS

SHEET NUMBER:
XF302

REFER TO XF303.1 FOR CONDUIT TRENCH TO STORE.

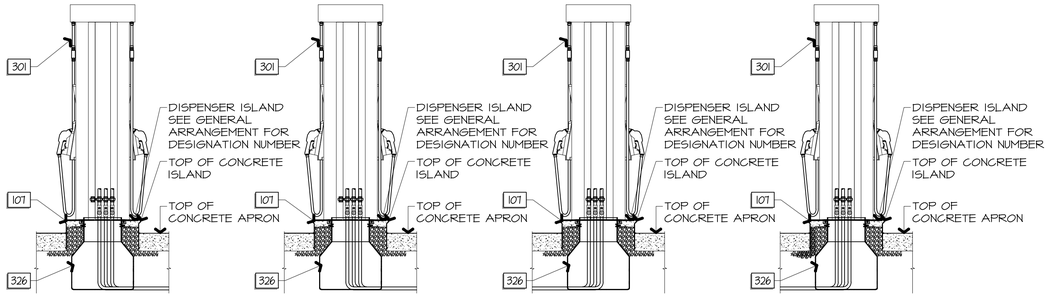
REFER TO XF301 FOR CONDUIT ROUTING

REFER TO XF303.1 FOR CANOPY CONDUIT PLAN



F1 DISPENSER SUMP CONDUIT - PLAN

3/8"=1'-0" | A1-XF303



A1 DISPENSER CONDUIT SECTION

3/8"=1'-0" | F1-XF303

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SHEET TITLE:
DISPENSER CONDUIT LAYOUT & SECTION

SHEET NUMBER:
XF303

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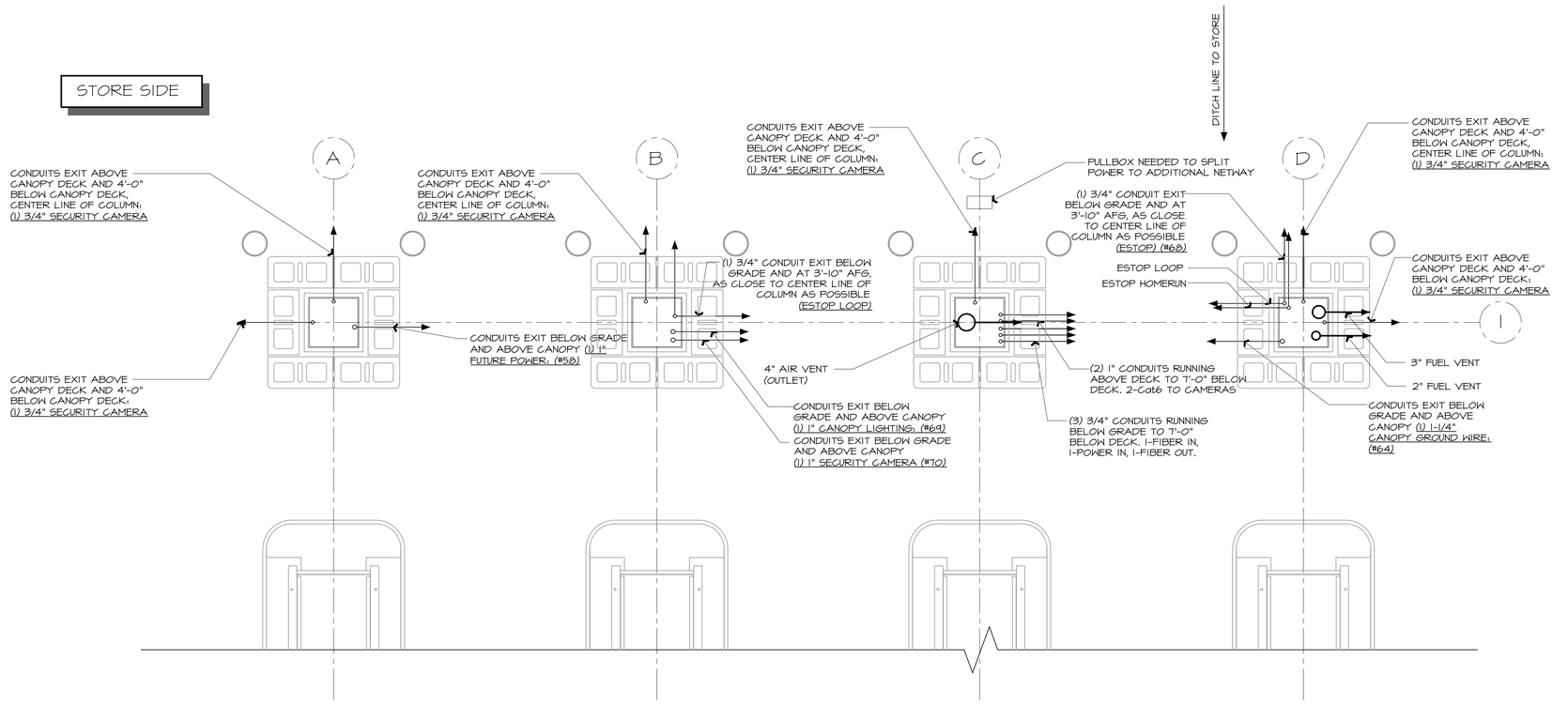
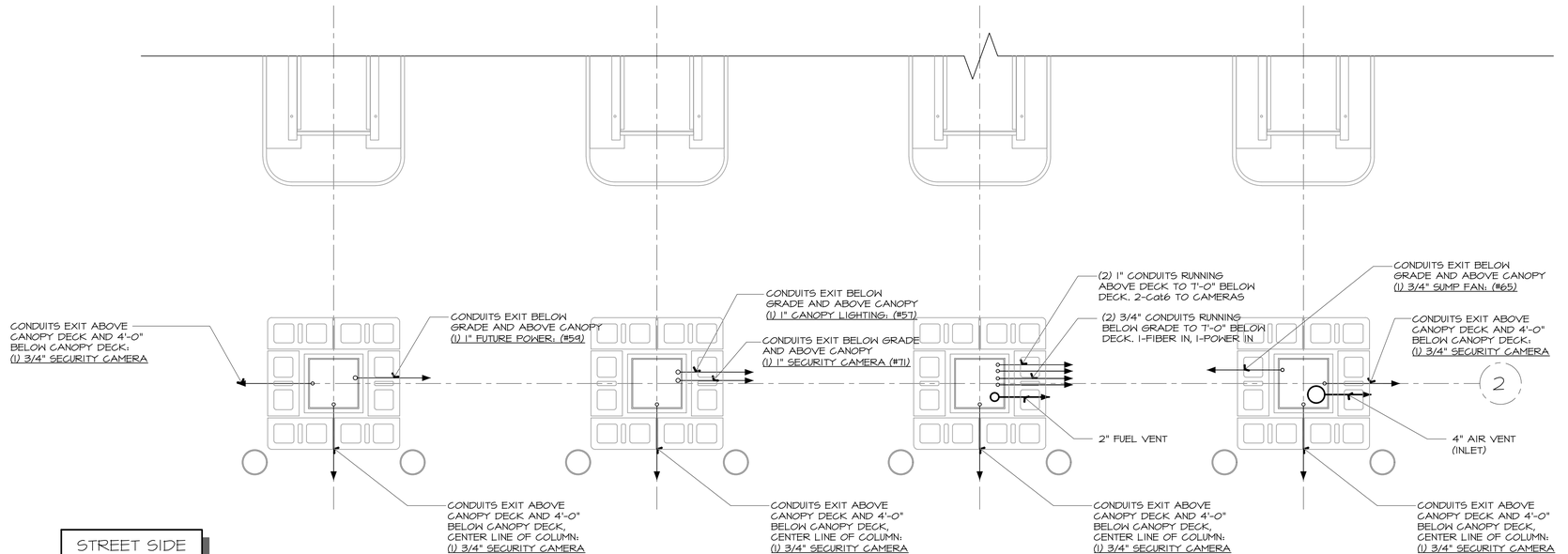
03/03/2025

STORE SIDE





STREET SIDE

A1 DISPENSER CONDUIT SECTION

NTS | F1-XF303

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NUMBER
PE-2009014085
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SHEET TITLE:
CANOPY CONDUIT LAYOUT

SHEET NUMBER:
XF303.1

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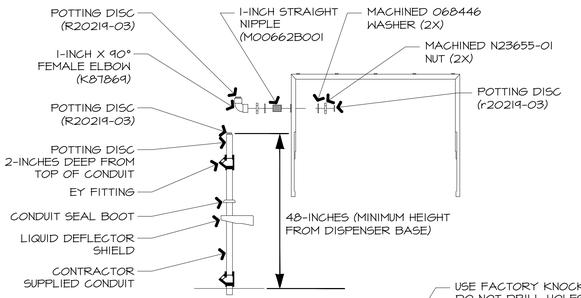
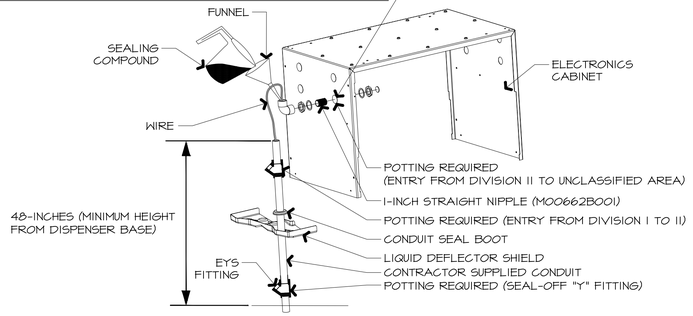
Lee's Summit, Missouri
03/01/2024



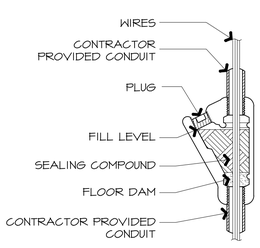
WITH POTTING DAM IN PLACE, CAREFULLY POUR SEALING COMPOUND THROUGH FUNNEL TO FILL CONDUIT

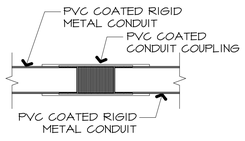
USE FACTORY KNOCK-OUT
DO NOT DRILL HOLES.
FAILURE TO USE CORRECT DISPENSER KNOCK OUT HOLES WILL RENDER WARRANTY VOID IN ALL MARKETS.

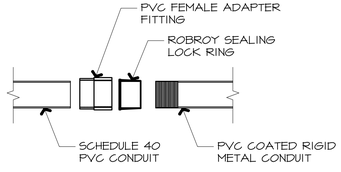


NOTE: THIS DEFLECTOR SHIELD IS ONLY USED FOR UNITS ORIGINALLY EQUIPPED WITH ONE. IT IS NOT NECESSARY FOR SIDE ELECTRONICS CABINET CONDUIT ENTRY INSTALLATIONS ON UNITS ORIGINALLY EQUIPPED WITHOUT THE SHIELD.

SEAL-OFF

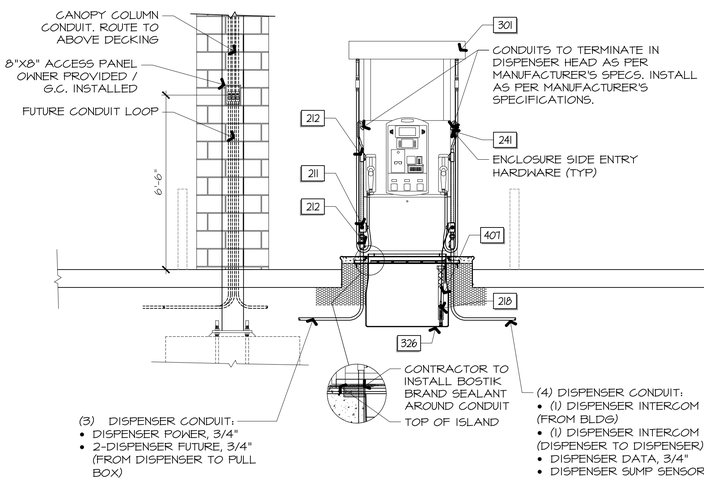


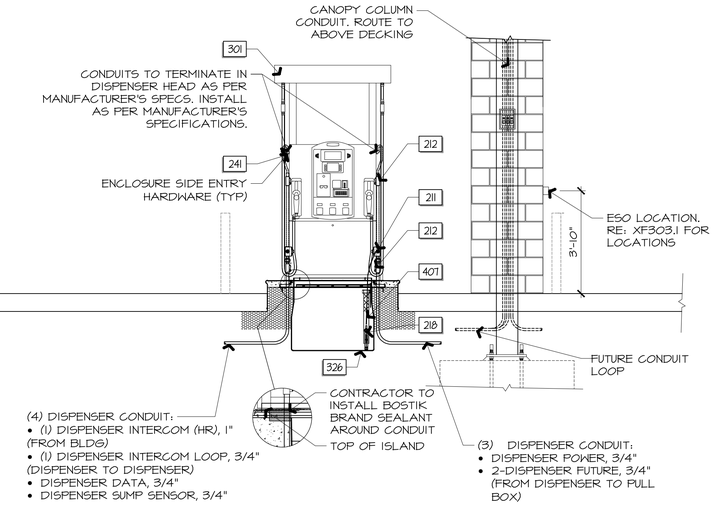




A1 REQUIRED CONDUIT SEAL DETAILS

N.T.S.

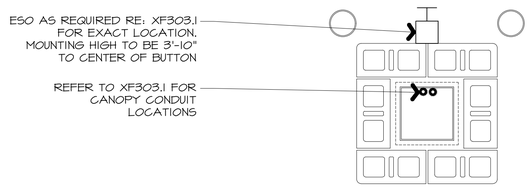


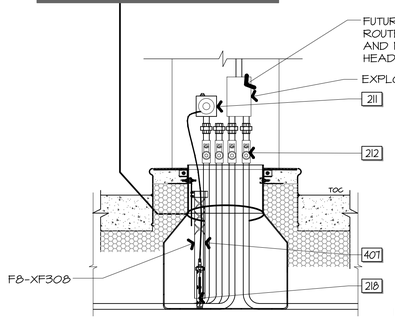


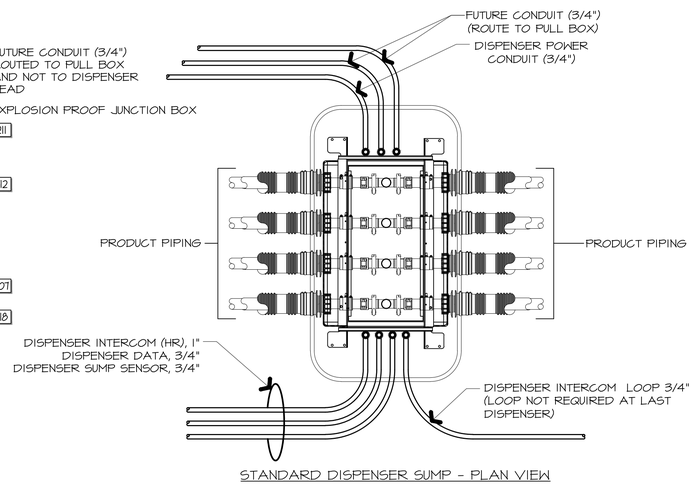
H6 DISPENSER CONDUIT ELEVATION

3/8"=1'-0" F1-XF303

(7) DISPENSER CONDUIT (TOTAL):
• DISPENSER POWER, 3/4" (BEYOND) (FROM BLDG)
• FUTURE, 3/4" (BEYOND) (ROUTE TO PULL BOX)
• FUTURE, 3/4" (BEYOND) (ROUTE TO PULL BOX)
• (1) DISPENSER INTERCOM, 3/4" (FROM BLDG OR DISPENSER)
• (1) DISPENSER INTERCOM LOOP, 3/4" (DISPENSER TO DISPENSER)
• DISPENSER DATA, 3/4" (FROM BLDG)
• DISPENSER SUMP SENSOR, 3/4" (FROM BLDG)







STANDARD DISPENSER SUMP - PLAN VIEW

A6 DISPENSER CONDUIT DETAIL

N.T.S.

STATE OF MISSOURI
JOHN DALE
NUMBER
PE-2009014085
PROFESSIONAL ENGINEER
11/25/2024

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DISPENSER CONDUIT LAYOUT & DETAILS

SHEET NUMBER:
XF304

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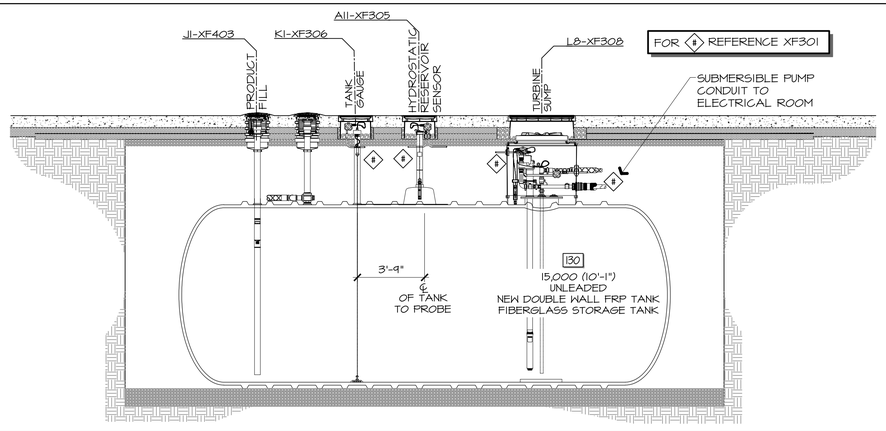
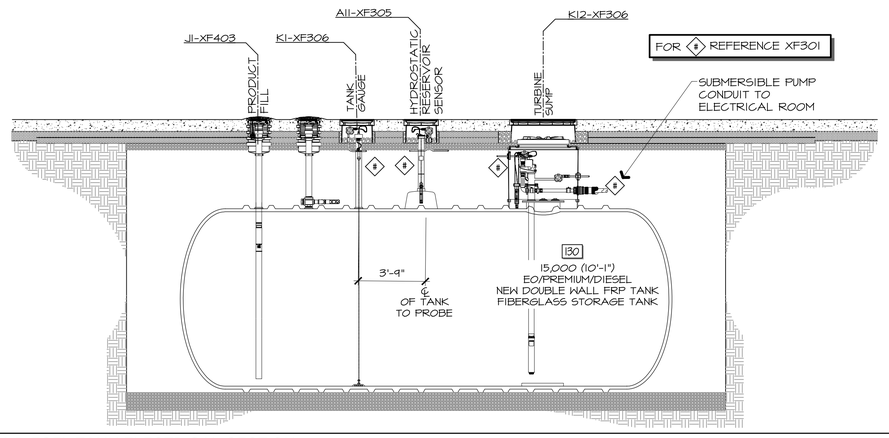
Development Services Department
Lee's Summit, Missouri
03/01/2025

K1 NOT USED
1/4" = 1'-0"



E1 15K UNLEADED TANK ELECTRICAL SECTION
1/4" = 1'-0"



A1 15K EO/PREMIUM/DIESEL TANK ELECTRICAL SECTION
1/4" = 1'-0"

NOTE:
1. REQUIRED FOR DOUBLE WALL FIBERGLASS TANK INSTALLATIONS ONLY.
2. SETTING BRINE LEVEL IN RISER PIPE WILL CAUSE FALSE ALARMS!!!!
3. SET BRINE LEVEL IN ACCORDANCE WITH TANK MANUFACTURER INSTALLATION INSTRUCTIONS AS FOLLOWS:

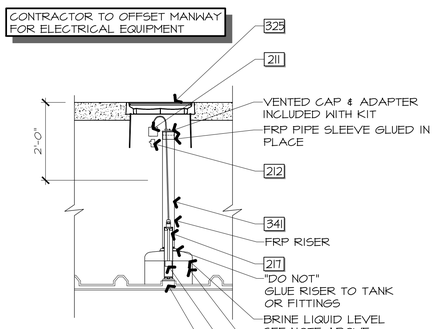
PROBE INSTALLATION
- IF THE TANK CONTAINS PRODUCT, STICK THE TANK AND SET THE MONITORING-FLUID LEVEL BASED ON THE PRODUCT LEVEL.
- THE PROBE MUST REMAIN IN CONTACT WITH THE TANK TOP AT ALL TIMES. DO NOT RAISE THE PROBE OFF THE TANK TO MEET THE MONITORING-FLUID LEVEL. ADD OR REMOVE MONITORING FLUID TO CHANGE THE LEVEL ON THE PROBE.
- THE TYPICAL PROBE HAS ONE FLOAT. WHILE THE PROBE IS UPRIGHT, LOCATE THE MIDPOINT.
- IF THE TANK IS BETWEEN EMPTY AND 1/4 FULL, SET THE MONITORING-FLUID LEVEL AT ABOUT 1 - 1 ½ INCHES BELOW THE MIDPOINT OF THE PROBE.
- IF THE PRODUCT LEVEL IS BETWEEN ¼ AND ½ FULL, SET THE MONITORING-FLUID LEVEL TO THE MIDPOINT OF THE PROBE.
- IF THE PRODUCT LEVEL IS BETWEEN ½ FULL AND FULL, SET THE MONITORING-FLUID LEVEL TO ABOUT 1 - 1 ½ INCHES ABOVE THE MIDPOINT OF THE PROBE.

4. IF THERE IS NO BRINE VISIBLE IN THE RESERVOIR WHEN THE TANK ARRIVES, IMMEDIATELY CONTACT XERXES

TANK SIZE	LIQUID LEVEL MEASUREMENT (L) WHEN TANK IS EMPTY	LIQUID LEVEL MEASUREMENT (L) WHEN TANK IS FULL
8'	3 1/2"	5"
10'	4"	6 1/2"

FOR COMPARTMENT TANKS, USE TOTAL VOLUME OF ALL COMPARTMENTS TO DETERMINE TANK SIZE.

CONTRACTOR TO OFFSET MANWAY FOR ELECTRICAL EQUIPMENT



A11 HYDROSTATIC RESERVOIR SENSOR
1/2"=1'-0"

STATE OF MISSOURI
JOHN DALE
E-29013
NUMBER
PE-2009014085
PROFESSIONAL ENGINEER
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UST CONDUIT LAYOUT & DETAILS

SHEET NUMBER:
XF305

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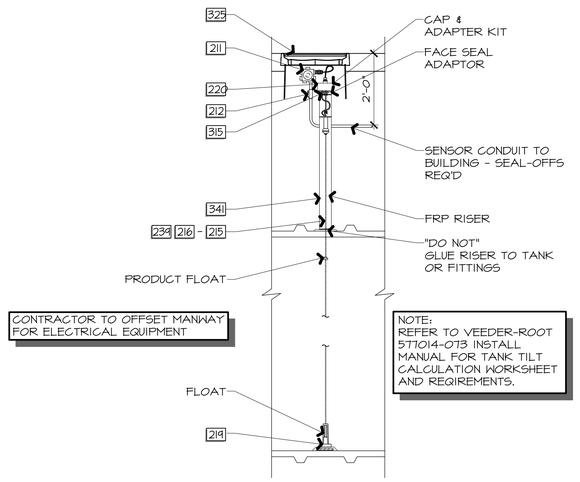
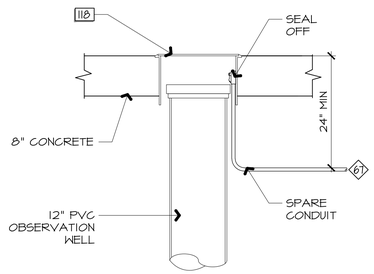
Lee's Summit, Missouri
03/10/2025



K1 AUTOMATIC TANK GAUGE

1/2"=1'-0" | A9/J9-XF203 | A1/E1-XF305 | A1/J1-XF402 | A1-XF412



K6 OBSERVATION WELL

N.T.S. | A9-XF204

K9 NOT USED

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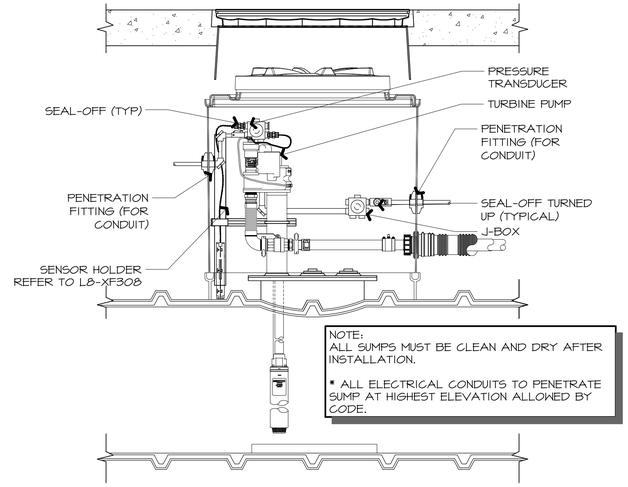
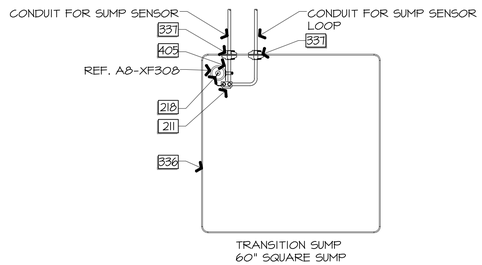
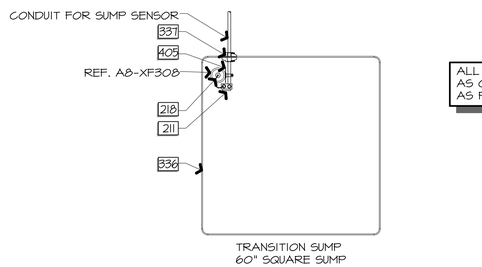


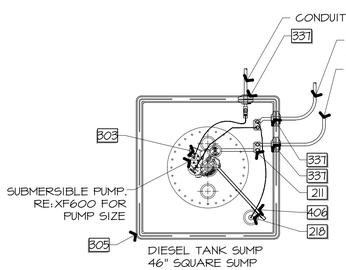
K12 TANK SUMP ELECTRICAL ELEVATION

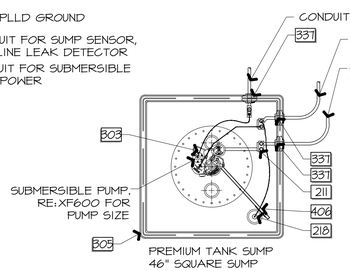
3/4" = 1'-0" | A1/E1-XF305

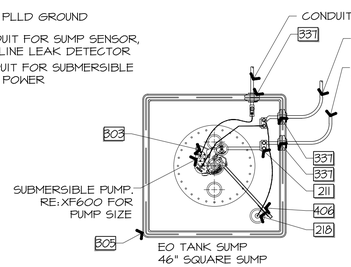


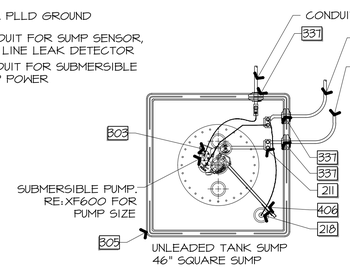


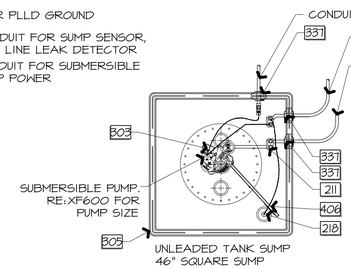
ALL CONDUIT ENTRY POINTS TO BE AS CLOSE TO CORNER OF SUMP AS POSSIBLE.











A1 TANK & TRANSITION SUMP ELECTRICAL PLAN

1/2"=1'-0"

STATE OF MISSOURI
JOHN DALE FERRELL
NUMBER PE-2009014085
PROFESSIONAL ENGINEER
11/25/2024

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LEE'S SUMMIT, MISSOURI

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SHEET TITLE:
UST CONDUIT LAYOUT & DETAILS

SHEET NUMBER:
XF306

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
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Lee's Summit, Missouri
03/01/2025

WIRING NOTE:
- IN ORDER TO ENSURE THE BEST OPERATING SYSTEMS AVAILABLE, VEEDER-ROOT REQUIRES THE USE OF SHIELDED CABLE FOR ALL PROBES AND SENSORS, REGARDLESS OF CONDUIT MATERIAL OR APPLICATION. IN THESE INSTALLATIONS, SHIELDED CABLE MUST BE RATED LESS THAN 100 PICOFARADS PER FOOT AND BE MANUFACTURED WITH A MATERIAL SUITABLE FOR THE ENVIRONMENT.

- ALL WIRING MUST BE INSTALLED IN ACCORDANCE WITH CLASS1, DIV 1 SPECIFICATIONS.
- ANY SPLICED CONNECTIONS FOR PROBES OR SENSORS SHOULD BE ENCLOSED IN PLASTIC BAG FILLED WITH EPOXY SEALANT.
- CONTRACTOR TO PROVIDE SEALING FITTINGS ON ALL CONDUITS ENTERING OR LEAVING DISPENSER SUMPS.

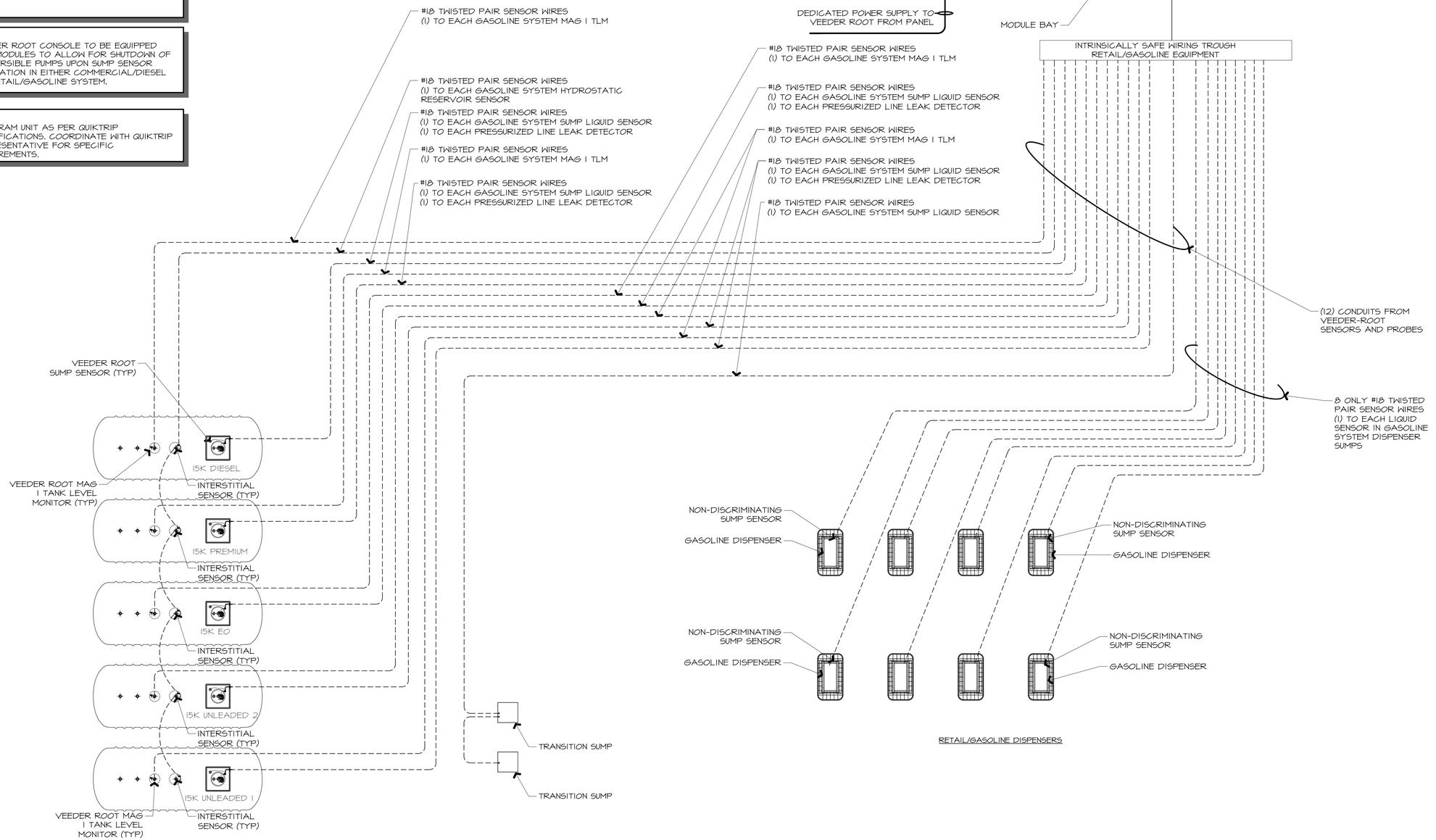
NOTE:
VEEDER ROOT CONSOLE TO BE EQUIPPED WITH MODULES TO ALLOW FOR SHUTDOWN OF SUBMERSIBLE PUMPS UPON SUMP SENSOR ACTIVATION IN EITHER COMMERCIAL/DIESEL OR RETAIL/GASOLINE SYSTEM.

NOTE:
PROGRAM UNIT AS PER QUIKTRIP SPECIFICATIONS. COORDINATE WITH QUIKTRIP REPRESENTATIVE FOR SPECIFIC REQUIREMENTS.

WIRE LABELING

FOLLOW THE BELOW AS A GUIDE TO PHYSICALLY LABEL EACH WIRE CONNECTED TO THE VEEDERROOT:

LPR = PLLD TRANSDUCER	-EX: LPR1, LPR2, LPR3 etc.
TP = TANK PROBE	-EX: TP1, TP2, TP3 etc.
L = SUMP/DISP PAN/INTERSTITIAL LIQUID SENSOR	-EX: L1, L2, L3 etc.
TS = TANK SENSOR IN DEF RECIRCULATION LINE	-EX: TS1, TS2, TS3 etc.
R = RELAY OUTPUT	-EX: R1, R2, R3 etc.
EI = EXTERAL INPUT (DISPENSER HOOK SWITCH)	-EX: EI1, EI2, EI3 etc.



A1 | VEEDER ROOT SCHEMATIC AND DETAILS
N.T.S.

STATE OF MISSOURI
JOHN DALE CRIST
NUMBER PE-2009014085
PROFESSIONAL ENGINEER
11/25/2024
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SHEET TITLE:
VEEDER ROOT SCHEMATIC & DETAILS

SHEET NUMBER:
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SENSING OPTIONS

VEEDER ROOT CONSOLE TLS 450 c/w PRINTER		VR-860090-100		
QTY	MODULE MODEL #	SENSOR/PROBE MODEL #	MODEL NUMBER	QTY
2	UNIVERSAL SENSOR/PROBE MODULE VR-332812-001	DUAL-POINT SINGLE FLOAT HYDROSTATIC SENSOR	794380-303	5
		NON-DISCRIMINATING DISPENSER PAN AND CONTAINMENT SUMP SENSORS	794380-208 (W/12' CABLE)	15
			794380-209 (W/30' CABLE)	-
		MAG PLUS MAGNETOSTRICTIVE TANK LEVEL MONITOR PROBE	846396-109 (10') USE ON 10'-0"Φ TANK	5
			846396-111 (11') USE ON 10'-6"Φ TANK	-
			846396-112 (12') USE ON 11'-6"Φ TANK	-
		NOT USED	NOT USED	-
1	UNIVERSAL INPUT/OUTPUT MODULE VR-332813-001	PLLD LINE LEAK SENSOR	859080-001 (F.E. PETRO PUMPS)	4

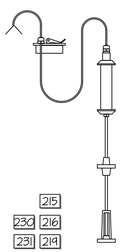
COMMUNICATIONS OPTIONS

RISK MGMT LEAK DETECTION PLLD	VR-32972-008	1
USB/ETHERNET DUAL MODULE	INCLUDED W/TLS 450 CONSOLE	-
RS-232 DUAL INTERFACE MODULE	INCLUDED W/TLS 450 CONSOLE	-
PRINTER INTERFACE	INCLUDED W/TLS 450 CONSOLE	-

HARDWARE/SOFTWARE

PROBE INSTALLATION KITS (GASOLINE)	886100-010	4
PROBE INSTALLATION KITS (DIESEL)	846400-011	1
4" COMPOSITE CAP AND RING KIT (MAG PROBES)	312020-282	-
SUMP SENSOR MOUNTING KIT	330020-012	-
4" METAL CAP AND RING KIT (MAG PROBES)	312020-452	5

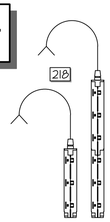
H1 SCHEDULES
N.T.S.



MAGNETOSTRICTIVE PROBES FOR TANK LEVEL MONITORING (WATER PRODUCT LEVELS) AND CONTINUOUS STATISTICAL LEAK DETECTION (MAG PLUS).

MAGNETOSTRICTIVE TANK LEVEL MONITOR PROBE

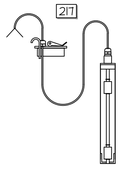
DESCRIPTION: NON-DISCRIMINATING SENSORS FOR SENSING WATER AND PETROLEUM IN SUMPS.



OPERATING PRINCIPLE: FLOAT DETERMINES PRESENCE OF LIQUID AND WILL TRIGGER AN ALARM TO THE TANK MONITOR.

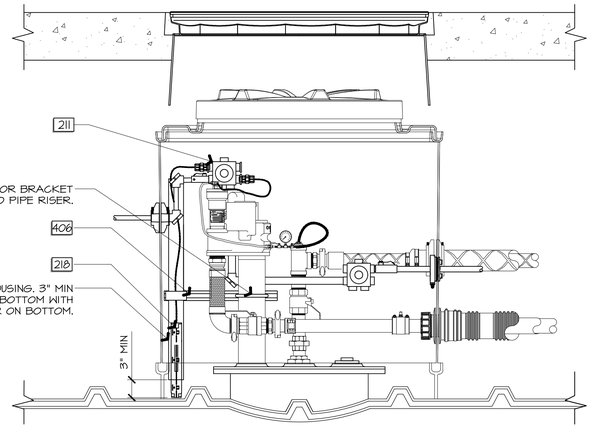
NON-DISCRIMINATING DISPENSER PAN AND CONTAINMENT SUMP SENSORS

DESCRIPTION: FOR MONITORING BRINE LEVELS IN DOUBLE WALL FRP BRINE MONITORED TANKS.

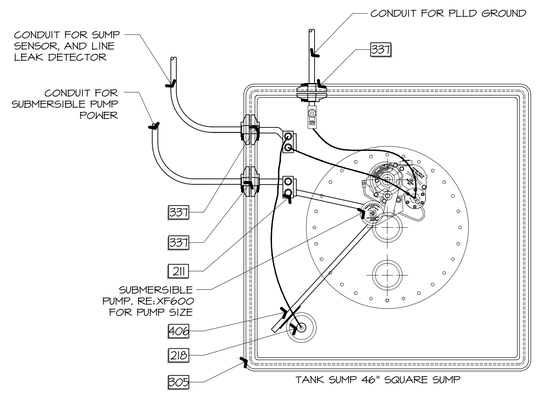


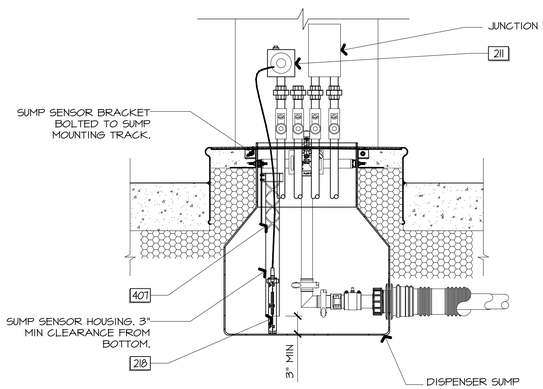
HYDROSTATIC RESERVOIR SENSORS (BRINE)

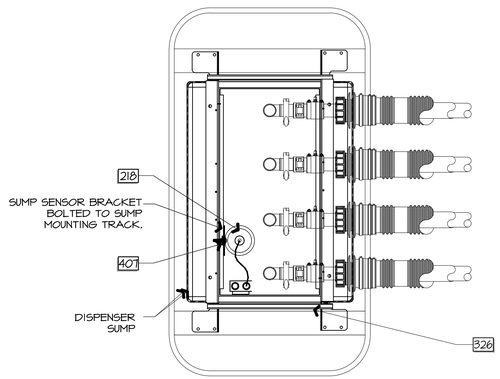
A1 VEEDER DETAILS
N.T.S.



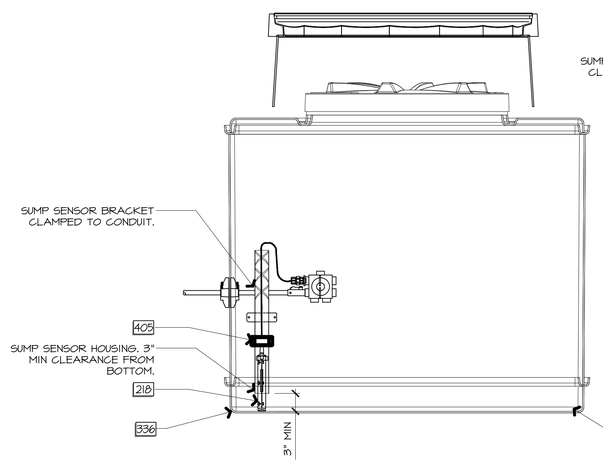
L8 STP SUMP SENSOR
1" = 1'-0"

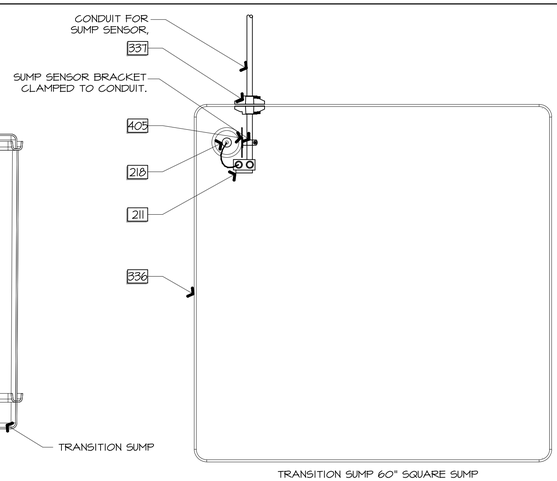






F8 DISPENSER SUMP SENSOR
1" = 1'-0"





A8 TRANSITION SUMP SENSOR
1" = 1'-0"

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STATE OF MISSOURI
JOHN DALE
NUMBER
PE-2009014085
PROFESSIONAL ENGINEER
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VEEDER ROOT SCHEDULE & DETAILS

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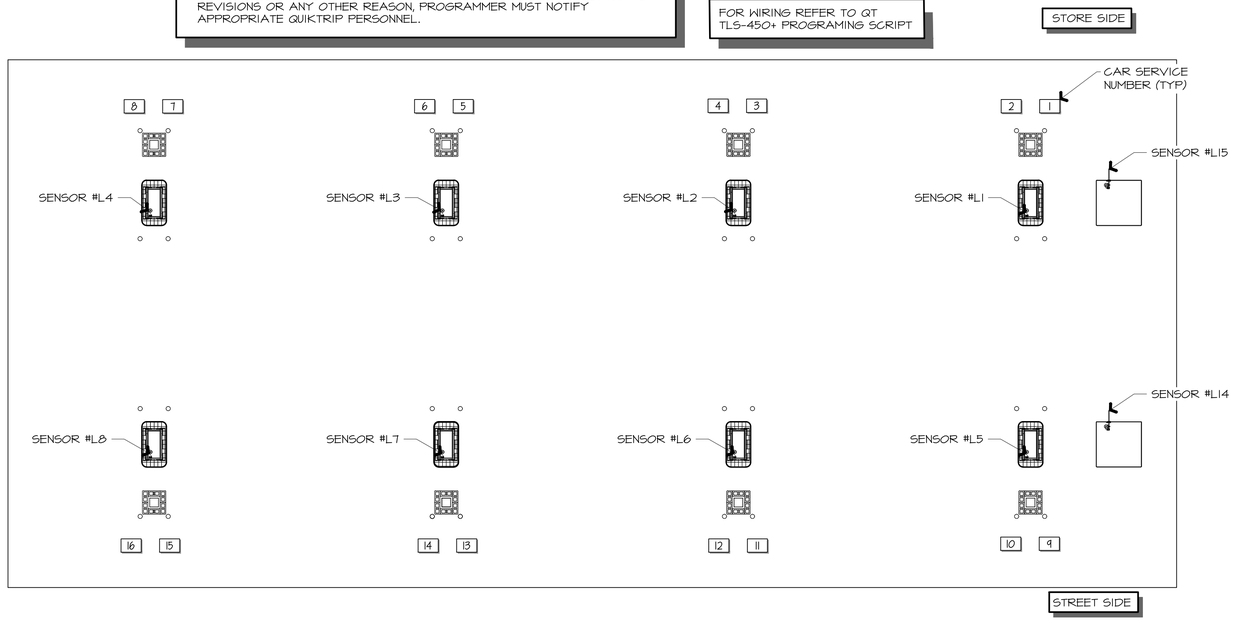
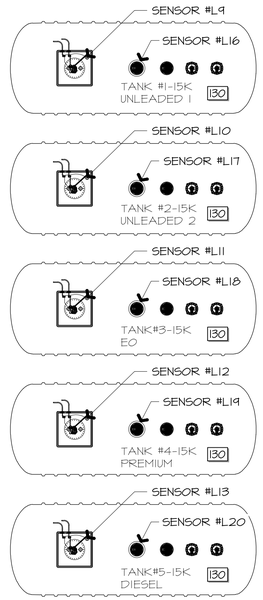
Lee's Summit, Missouri
03/03/2025

I. SENSOR NOTE:

SENSORS AND VEEDER-ROOT TO BE WIRED AND PROGRAMMED TO MATCH NUMBERING ON DETAIL A1-XF309. VEEDER-ROOT NUMBERING IS DETERMINED FOR CONSISTENCY BETWEEN STORES.
IF IT IS UNCLEAR AS TO THE CORRECT PROGRAMMING DUE TO SOFTWARE REVISIONS OR ANY OTHER REASON, PROGRAMMER MUST NOTIFY APPROPRIATE QUIKTRIP PERSONNEL.

FOR WIRING REFER TO QT TLS-450+ PROGRAMING SCRIPT





LIQUID SENSOR CHART

	SENSOR NUMBER	LOCATION	NON-DISCRIMINATING SUMP SENSOR	HYDROSTATIC RESERVOIR SENSOR (BRINE)	
EQUIP. TAG			218	217	
DISPENSER SUMPS	L1	DISP 1-2	●		
	L2	DISP 3-4	●		
	L3	DISP 5-6	●		
	L4	DISP 7-8	●		
	L5	DISP 9-10	●		
	L6	DISP 11-12	●		
	L7	DISP 13-14	●		
	L8	DISP 15-16	●		
STP SUMP	L9	UST T1 UNL 1 STP SUMP	●		
	L10	UST T2 UNL 2 STP SUMP	●		
	L11	UST T3 EO STP SUMP	●		
	L12	UST T4 PREMIUM STP SUMP	●		
	L13	UST T5 DIESEL STP SUMP	●		
TRANSITION SUMP	L14	TRANS SUMP #1	●		
	L15	TRANS SUMP #2	●		
TANK INTERSTITIAL (ANNULAR)	L16	INTERSTITIAL UNL 1 T1		●	
	L17	INTERSTITIAL UNL 2 T2		●	
	L18	INTERSTITIAL EO T3		●	
	L19	INTERSTITIAL PREMIUM T4		●	
	L20	INTERSTITIAL DIESEL T5		●	

STATE OF MISSOURI
JOHN DALE
NUMBER PE-2009014085
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SENSOR NUMBERING PLAN

SHEET NUMBER:
XF309

A1
1/8"=1'-0"
SENSOR LOCATION AND NUMBERING DETAIL

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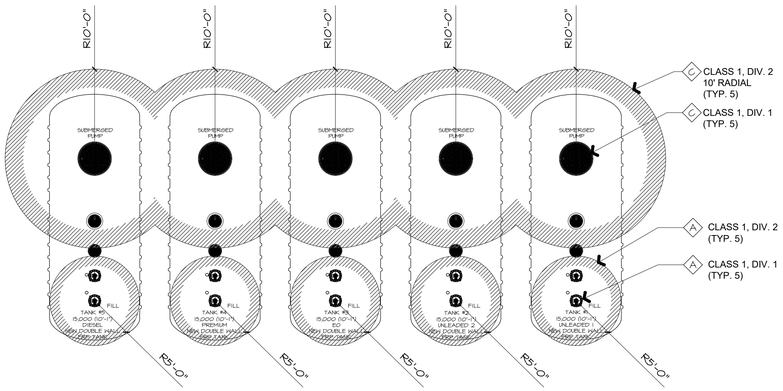


K1 NEC CLASSIFIED AREA AT GROUND LEVEL

1/8"=1'-0"

N.E.C. HAZARDOUS AREA NOTES

A TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - FILL OPENING)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFIED LOCATION.

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN A HORIZONTAL RADIUS OF 10 FEET FROM A LOOSE FILL CONNECTION AND WITHIN A HORIZONTAL RADIUS OF 5 FEET FROM A TIGHT FILL CONNECTION.

B TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (UNDERGROUND TANK - VENT DISCHARGING UPWARD)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: WITHIN 5 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: SPACE BETWEEN 5 FEET AND 10 FEET OF OPEN END OF VENT, EXTENDING IN ALL DIRECTIONS.

C TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (REMOTE PUMP - OUTDOOR)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL IF ANY PART IS WITHIN A HORIZONTAL DISTANCE OF 10 FEET FROM ANY EDGE OF PUMP.

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 3 FEET OF ANY EDGE OF PUMP, EXTENDING IN ALL DIRECTION. ALSO UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 10 FEET HORIZONTALLY FROM ANY EDGE OF PUMP.

D TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - PITS)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: ANY PIT, BOX, OR SPACE BELOW GRADE LEVEL, ANY PART OF WHICH IS WITHIN THE DIVISION 1 OR 2 CLASSIFICATION LOCATION.

E TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)

EXTENT OF CLASS 1, GROUP D, DIVISION 1 LOCATION: SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."

F TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - DISPENSER)

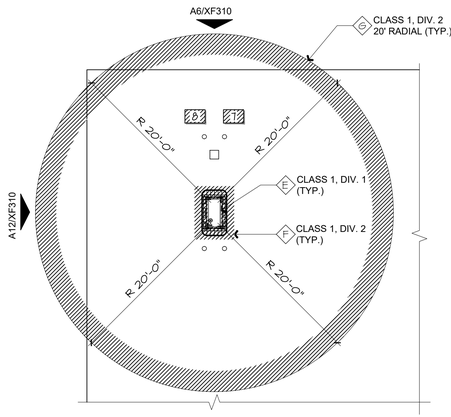
EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: WITHIN 18 INCHES HORIZONTALLY IN ALL DIRECTIONS EXTENDING TO GRADE FROM (1) THE DISPENSER ENCLOSURE OR (2) THAT PORTION OF THE DISPENSER ENCLOSURE CONTAINING LIQUID HANDLING COMPONENTS. SPACE CLASSIFICATION INSIDE THE DISPENSER ENCLOSURE IS COVERED IN ANSI/UL 87, "POWER OPERATED DISPENSING DEVICES FOR PETROLEUM PRODUCTS."

G TYPICAL N.E.C. ARTICLE 514 CLASS 1 LOCATION (DISPENSING DEVICE - OUTDOOR)

EXTENT OF CLASS 1, GROUP D, DIVISION 2 LOCATION: UP TO 18 INCHES ABOVE GRADE LEVEL WITHIN 20 FEET HORIZONTALLY OF ANY EDGE OF ENCLOSURE.

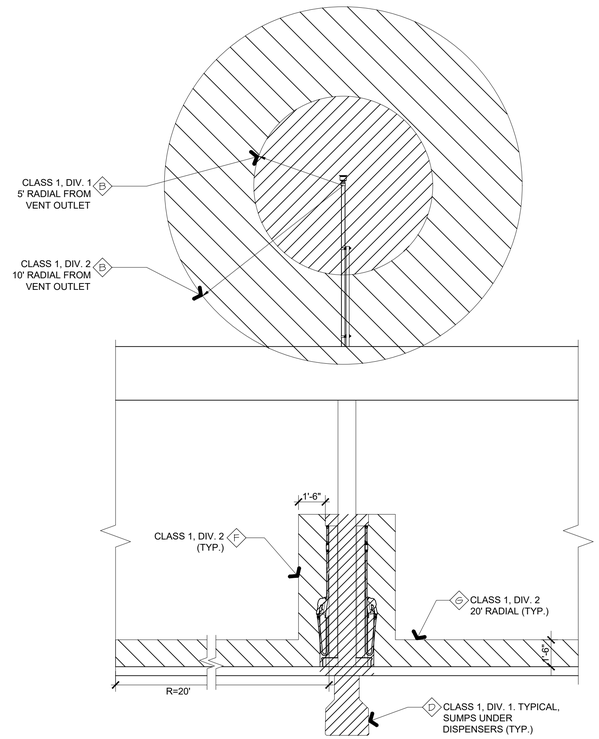
K10 NEC HAZARDOUS AREA NOTES

1/8"=1'-0"



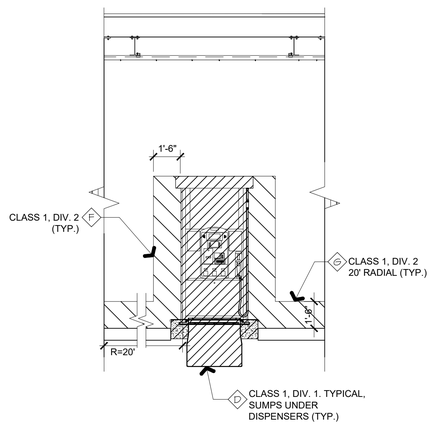
A1 NEC CLASSIFIED AREA AT DISPENSERS

1/8"=1'-0"



A6 NEC CLASSIFIED SIDE ELEVATION

1/4"=1'-0"



A12 NEC CLASSIFIED FRONT ELEVATION

1/4"=1'-0"

STATE OF MISSOURI
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NUMBER
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SHEET NUMBER:
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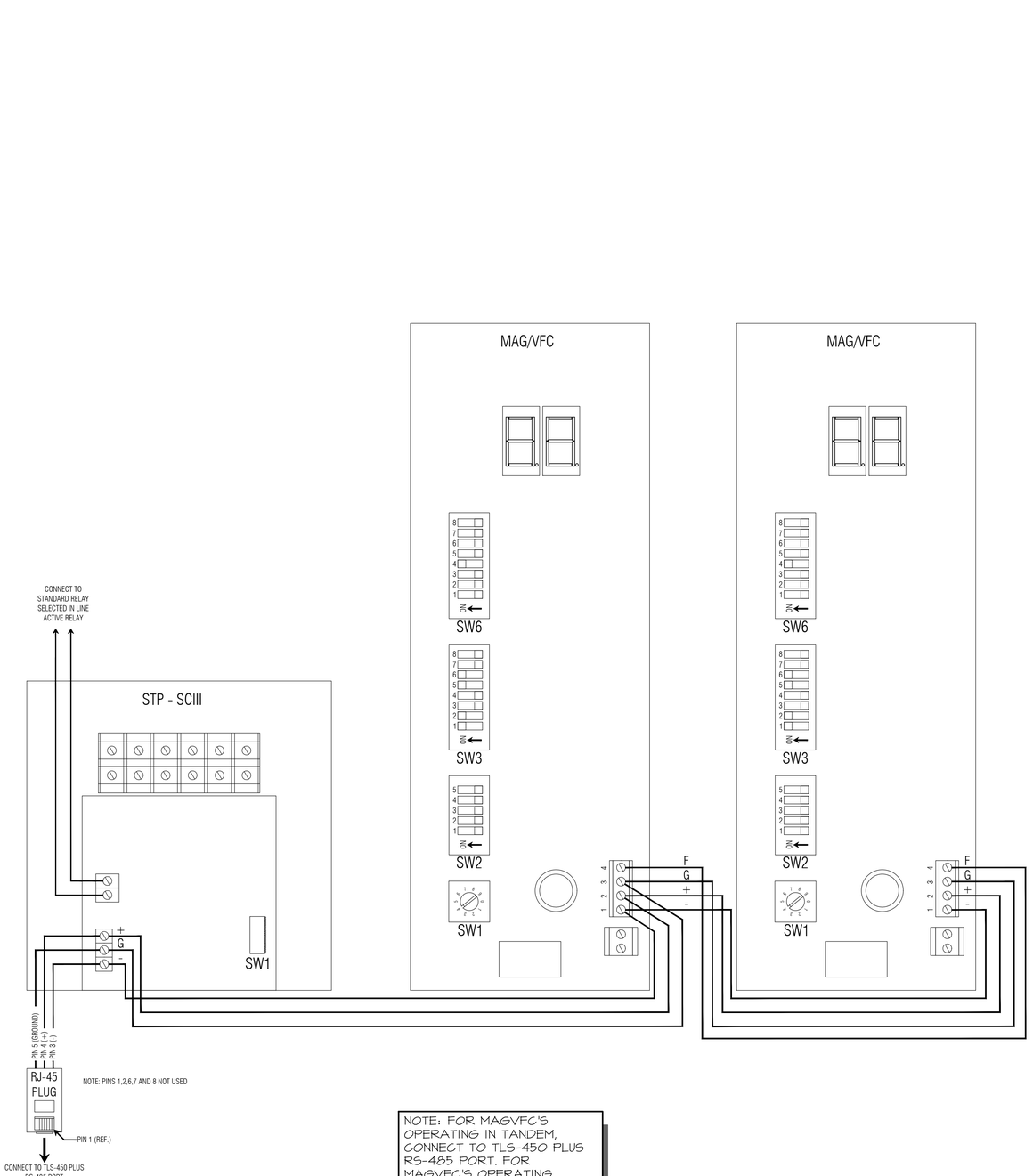
03/01/2024

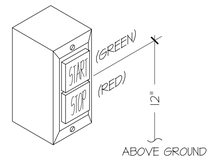


NOTE: FOR MAGVFC'S OPERATING IN TANDEM, CONNECT TO TLS-450 PLUS RS-485 PORT. FOR MAGVFC'S OPERATING ALONE, CONNECT TO TLS450 PLUS 120VAC PUMP OUTPUT RELAY.

A1 MULTI CONTROLLER WIRING DIAGRAM
NTS

ELECTRICAL EQUIPMENT LIST AND CONNECTION SCHEDULE

TAG	DESCRIPTION	MAKE & MODEL	VOLTAGE / PHASE / WIRE	LOAD AMPS	TYPE OF CONNECTION	WIRE AND CONDUIT	MOUNTING HEIGHT (AFF)	FURNISHED BY	ITEM REMARKS
##									
302	EMERGENCY GASOLINE SHUT-OFF SWITCH	PILLA #FS120MOGRYGLMXD	24VAC/2W	-	HARDWIRED		*	GC	*SEE DETAIL A9/XF311



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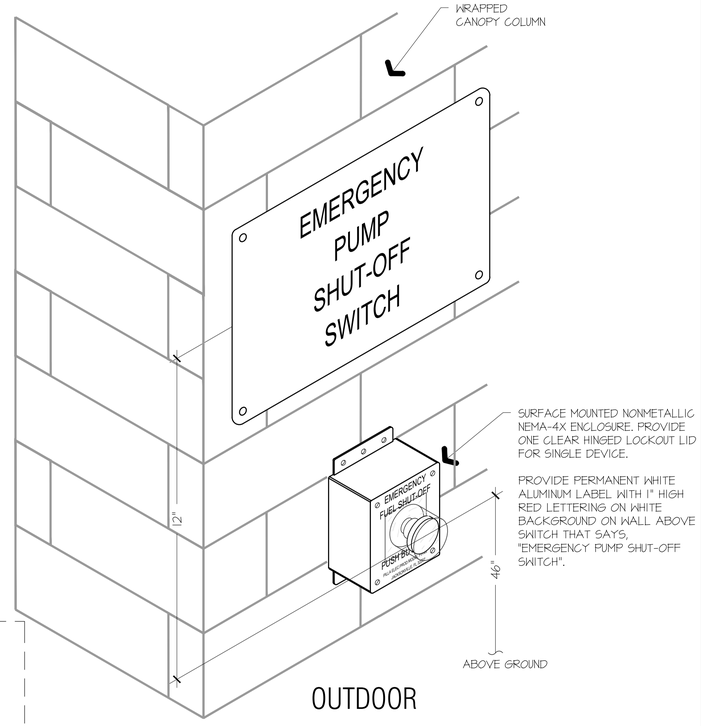
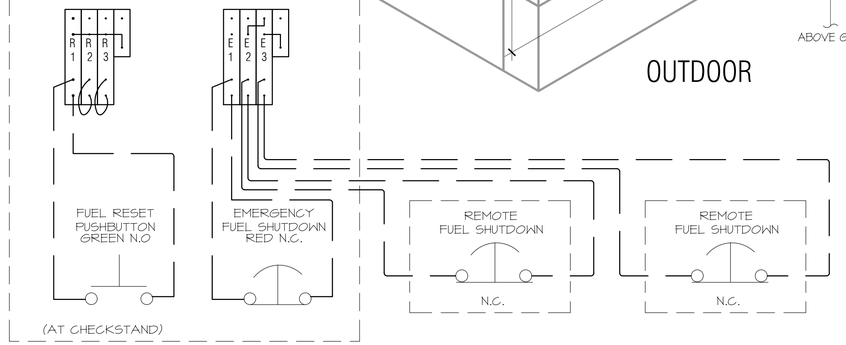


SURFACE MOUNTED NONMETALLIC NEMA-4X ENCLOSURE. PROVIDE ONE CLEAR HINGED LOCKOUT LID FOR SINGLE DEVICE.

PROVIDE PERMANENT WHITE ALUMINUM LABEL WITH 1" HIGH RED LETTERING ON WHITE BACKGROUND ON WALL ABOVE SWITCH THAT SAYS, "EMERGENCY PUMP SHUT-OFF SWITCH".

OUTDOOR

FUEL SHUTDOWN CIRCUITRY



SUMMARY OF INTEGRATED HV AND LV DISCONNECT SYSTEM:
FULL NEC 514 COMPLIANCE INTEGRATED HV AND LV DISCONNECTING MEANS

SYSTEM INCORPORATES A FUEL CONTROL PANEL THAT IS INTEGRATED INTO THE PREMANUFACTURED CABINET. FORMER E-STOP BOX AND CONTACTORS, ALONG WITH THE F.E. PETRO DHI RELAY FUNCTIONS ARE ALL INTEGRATED INTO THE CONTROL PANEL. SYSTEM AND COMPONENTS SHALL BE PRE-WIRED TO THE EXTENT POSSIBLE WITHIN THE CABINET, INCLUDING ALL LOW VOLTAGE COMMUNICATION CABLES TO THE PANEL SYSTEM OR LINE SIDE OF THE LOW VOLTAGE WIRING TERMINALS.

1. SYSTEM SHALL PRE WIRE FOR STP POWER, DISPENSER POWER AND COMMUNICATIONS ON A TERMINAL BLOCK FOR TERMINATION OF FIELD WIRING.
2. SYSTEM SHALL PRE-WIRE HOOK SIGNALS IN A COLOR CODED ROW OF TERMINALS ALL SIDE BY SIDE AT THE BOTTOM OF THE PANEL.
3. CONTROL PANEL DESIGN SHALL INCLUDE A "DIESEL" TERMINAL BLOCK FOR ANY DISPENSER WIRED AS A SPARE.
4. CONTROL PANEL DESIGN SHALL BE FULLY COMPLIANT WITH 514-11 AND 514-13. THE EMERGENCY SHUTOFF SHALL BE SET UP SUCH THAT ANY ONE KILL SWITCH WILL SHUT DOWN THE ENTIRE SYSTEM, INCLUDING OPENING ALL LINE VOLTAGE AND LOW VOLTAGE WIRES TO THE DISPENSERS AND FUEL PUMPS. A MANUAL RESET BUTTON LOCATED IN THE ELECTRICAL CABINET ACCESSIBLE TO AUTHORIZED PERSONNEL SHALL BE REQUIRED FOR RE-ENERGIZING THE SYSTEM.
5. IN ADDITION, A SINGLE DISCONNECTING SWITCH SHALL BE LOCATED ON THE CONTROL PANEL TO ALLOW SERVICING TO ANY SINGLE DISPENSER BY DISCONNECTING BOTH THE DISPENSER POWER AND COMMUNICATIONS/DATA TO THAT DISPENSER ONLY WHILE LEAVING THE REMAINDER OF THE LOCATION UP AND RUNNING.

ON-OFF SWITCH(ES) SHALL BE PROVIDED BY GENERAL CONTRACTOR AS SCHEDULED, WIRED AS INDICATED AND PER MFR INSTALLATION INSTRUCTIONS.

1. INDOOR EMERGENCY SHUT-OFF (ESO) SWITCH AND RESET AT CHECKSTAND.
2. EXTERIOR EMERGENCY SHUT-OFF(S) (ESO) OUTSIDE STORE.

RE: XF 300 FOR LOCATIONS.

A9 EMERGENCY FUEL CUTOFF DIAGRAM
NTS

STATE OF MISSOURI
JOHN DALE
E-29014
NUMBER
PE-2009014085
PROFESSIONAL ENGINEER
11/25/2024
SIGNATURE DATE:

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QuikTrip No. 0183R
1001 SW BLUE PARKWAY
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PROTOTYPE	P-120
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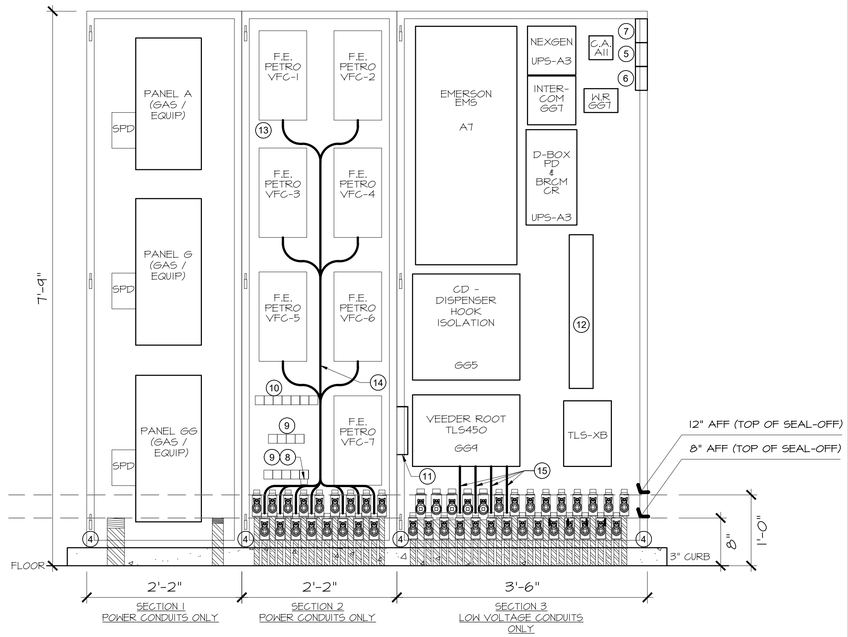
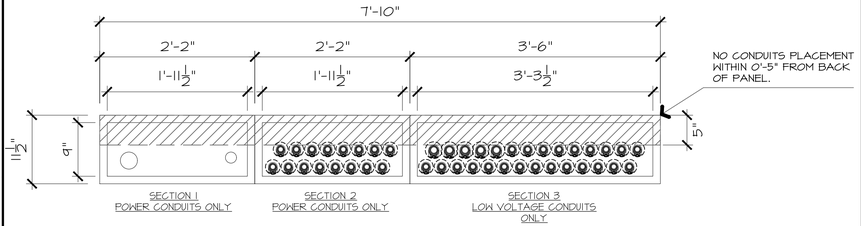
ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
DETAILS

SHEET NUMBER:
XF311

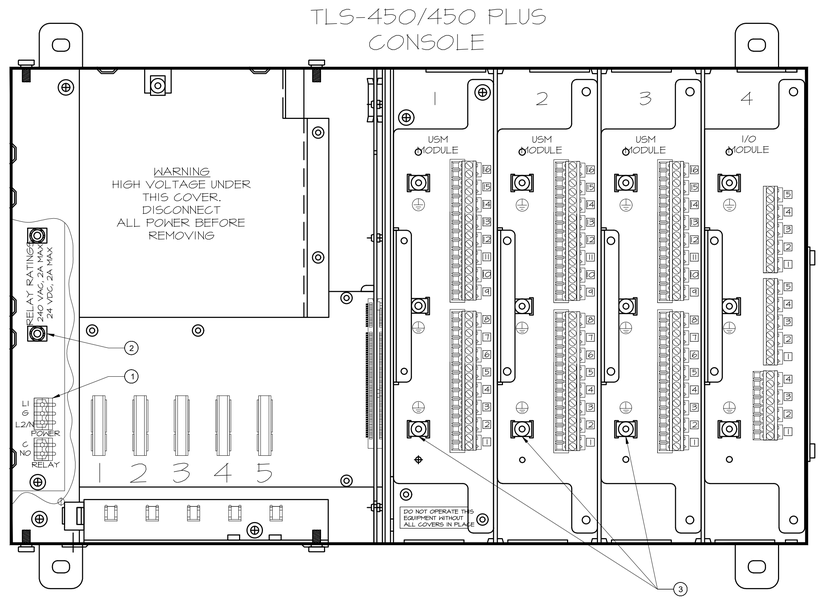




SECTION A-A

NOTE: CONTRACTOR TO VERIFY AND CONFIRM LOCATION OF HIGH VOLTAGE AND LOW VOLTAGE CONDUITS

TLS-450/450 PLUS CONSOLE



	KEYNOTES
1	PULL THREE #14 AWG OR LARGER COLOR-CODED WIRES FOR AC LINE (HOT), AC NEUTRAL AND CHASSIS GROUND BETWEEN THE POWER PANEL AND THE CONSOLE.
2	PROVIDE A BARRIER GROUND FROM GROUNDING TERMINAL BAR IN POWER PANEL TO GROUNDING CLAP IN THE CONSOLE. FOR UL/cUL APPROVED SYSTEMS, USE A #12 AWG BARRIER GROUND WIRE.
3	FOR EACH BAY HOUSING A USM MODULE, PROVIDE A #12 AWG GROUND FROM THE GROUNDING CLAMP TO GROUNDING LUGS.
4	EXPLOSION PROOF SEAL-OFF, ONE PER CONDUIT. SEE SECTION A-A FOR APPROXIMATE CONDUIT LAYOUT. QUANTITY AND SIZE OF CONDUITS MAY VARY. USE FLOOR TEMPLATE FURNISHED BY ELECTRICAL PANEL MANUFACTURER TO LAYOUT FLOOR CONDUIT PENETRATIONS.
5	PREMOUNTED QUAD RECEPTACLE FOR SECURITY SYSTEM.
6	PREMOUNTED INTERCOM / WARREN ROGERS DUPLEX RECEPTACLE.
7	PREMOUNTED QUAD RECEPTACLE FOR UPS.
8	MOTOR STARTER FOR CANOPY EXHAUST FAN.
9	MPD ISOLATION MODULES. QUANTITY MAY VARY.
10	SUBMERSIBLE PUMP CONTACTORS.
11	TVSS FOR VEEDER-ROOT.
12	DISPENSING EQUIPMENT LOW VOLTAGE DISCONNECT (TWISTED PAIR & CAT-5).
13	REFER TO SHEET E503 & E610 FOR CIRCUIT NUMBERING
14	3/4" FLEXIBLE CONDUIT FROM MAGVFC'S TO SEAL-OFF'S.
15	3/4" FLEXIBLE CONDUIT FROM VEEDER ROOT TO SEAL-OFF'S.

NOTE: THE VEEDER-ROOT MONITORING SYSTEM TO BE FULLY FUNCTIONAL PRIOR TO INTRODUCING ANY FUEL PRODUCTS INTO THE TANKS.

NOTE: VEEDER-ROOT PROGRAMMING DISPLAYED FOR GENERAL EXAMPLE PURPOSES. CONTACT QT REPRESENTATIVE FOR LATEST PROGRAMMING SCRIPT.

VEEDER-ROOT PROGRAMMING (NON-TRAVEL CENTERS)

USM CARD #1	SOFTWARE LABEL	USM CARD #2	SOFTWARE LABEL	USM CARD #3	SOFTWARE LABEL
#16	T5 x INT (annular space sensor)	#16	AUTO DIESEL (tank probe)	#16	(ADDITIONAL)
#15	T4 x INT (annular space sensor)	#15	NON-ETHANOL (tank probe)	#15	(ADDITIONAL)
#14	T3 x INT (annular space sensor)	#14	PREMIUM (tank probe)	#14	(ADDITIONAL)
#13	T2 x INT (annular space sensor)	#13	UNLEADED X (tank probe)	#13	(ADDITIONAL)
#12	T1 x INT (annular space sensor)	#12	UNLEADED x (tank probe)	#12	(ADDITIONAL)
#11	TRANS SUMP xxx (containment sump sensor)	#11	(ADDITIONAL)	#11	(ADDITIONAL)
#10	DISP PAN 19/20 ** (dispenser pan sensor)	#10	AUTO DSL DISP ALL (PLLD sensor)	#10	(ADDITIONAL)
#9	DISP PAN 17/18 ** (dispenser pan sensor)	#9	NON-ETHANOL DISP ALL (PLLD sensor)	#9	(ADDITIONAL)
#8	DISP PAN 15/16 ** (dispenser pan sensor)	#8	PRE DISP ALL (PLLD sensor)	#8	(ADDITIONAL)
#7	DISP PAN 13/14 ** (dispenser pan sensor)	#7	UNL X DISP 7-12 (PLLD sensor)	#7	(ADDITIONAL)
#6	DISP PAN 11/12 (dispenser pan sensor)	#6	UNL x DISP 1-6 (PLLD sensor)	#6	(ADDITIONAL)
#5	DISP PAN 9/10 (dispenser pan sensor)	#5	T5 X STP (stp sump sensor)	#5	(ADDITIONAL)
#4	DISP PAN 7/8 (dispenser pan sensor)	#4	T4 X STP (stp sump sensor)	#4	(ADDITIONAL)
#3	DISP PAN 5/6 (dispenser pan sensor)	#3	T3 X STP (stp sump sensor)	#3	(ADDITIONAL)
#2	DISP PAN 3/4 (dispenser pan sensor)	#2	T2 X STP (stp sump sensor)	#2	(ADDITIONAL)
#1	DISP PAN 1/2 (dispenser pan sensor)	#1	T1 X STP (stp sump sensor)	#1	(ADDITIONAL)

TANK NUMBERS\LABELS MUST MATCH SITE PLANS XF102 & XF103**.
X= TANK LABEL
** - IF EQUIPPED

NOTE: VERIFY DIP SWITCH SETTINGS FOR VFC DRIVE

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Development Services Department
Lee's Summit, Missouri
03/01/2025

STATE OF MISSOURI
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DETAILS

SHEET NUMBER:
XF312

A1 INTERIOR ELECTRICAL PANEL DETAILS — NTS

A7 VEEDER ROOT ELEVATION — NTS

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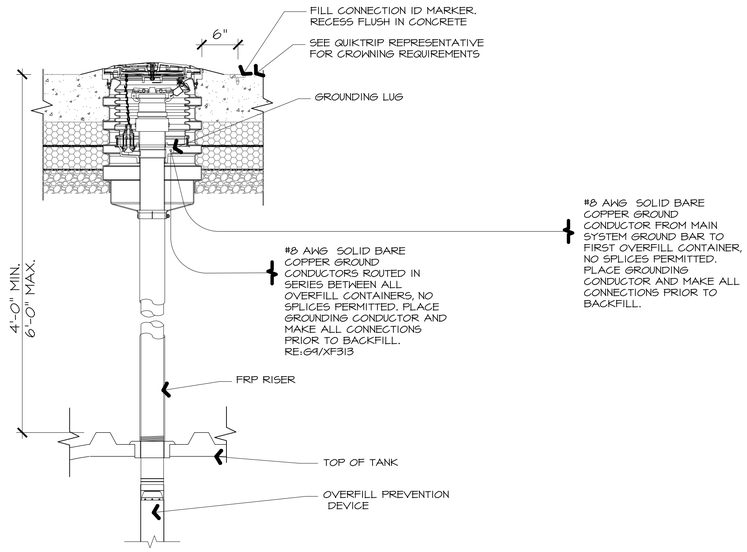
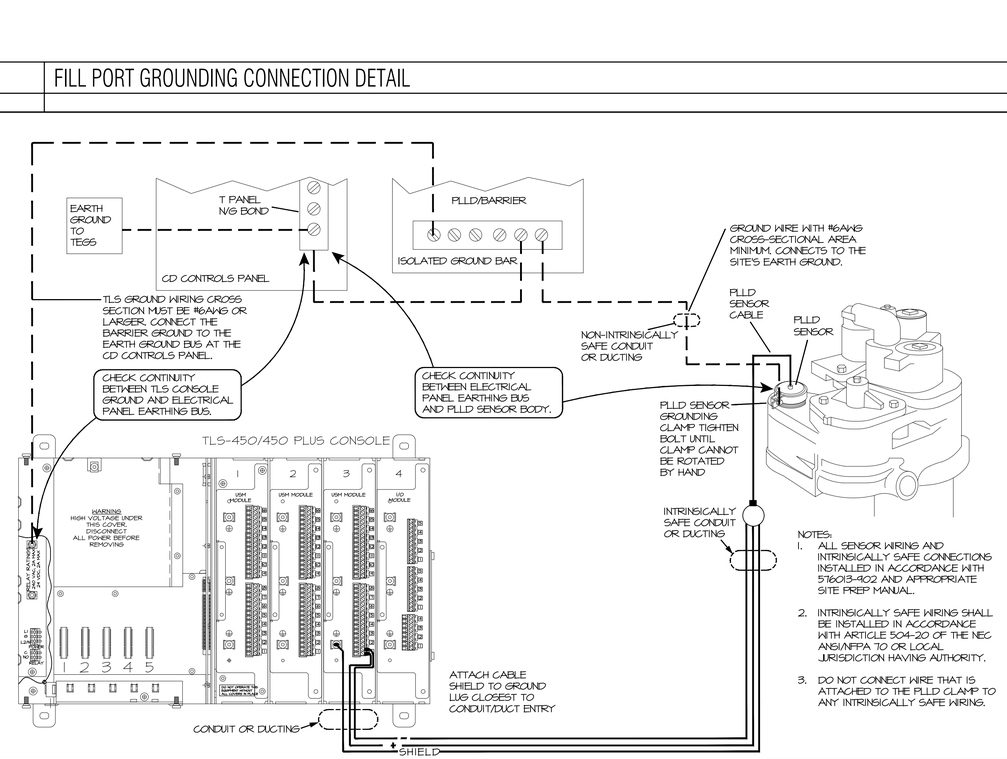
Development Services Department
Lee's Summit, Missouri
03/10/2025



G1 FILL PORT GROUNDING CONNECTION DETAIL

NTS

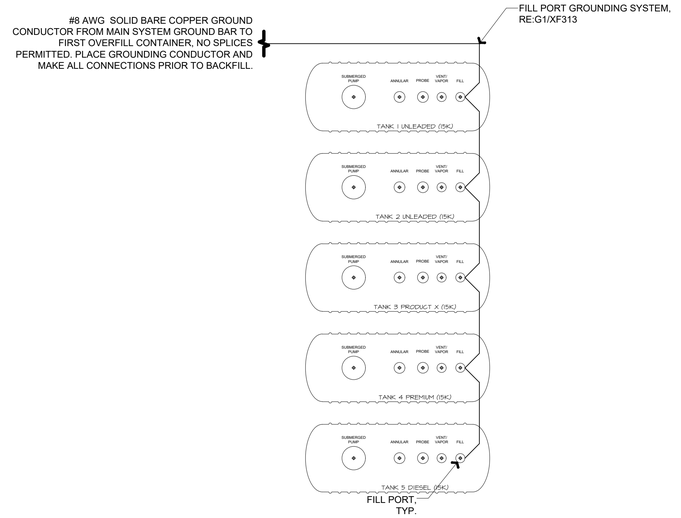


NOTES:

1. ALL SENSOR WIRING AND INTRINSICALLY SAFE CONNECTIONS INSTALLED IN ACCORDANCE WITH 576013-902 AND APPROPRIATE SITE PREP MANUAL.
2. INTRINSICALLY SAFE WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 504-20 OF THE NEC ANSI/NFPA 70 OR LOCAL JURISDICTION HAVING AUTHORITY.
3. DO NOT CONNECT WIRE THAT IS ATTACHED TO THE PLLD CLAMP TO ANY INTRINSICALLY SAFE WIRING.

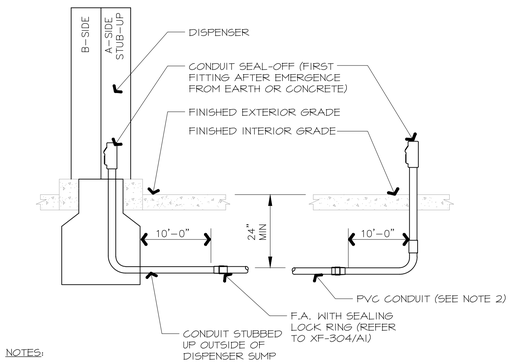
A1 PLLD GROUND DETAIL

NTS



G9 FILL PORT GROUNDING PLAN

NTS

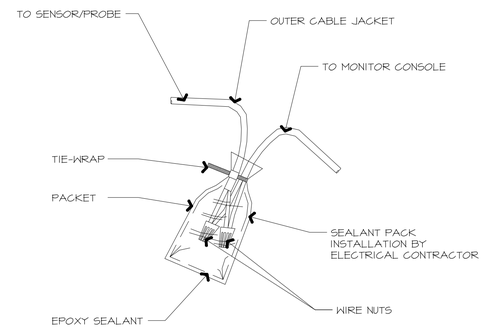


NOTES:

1. THREADED PVC COATED RIGID/ROB ROY CONDUIT SHALL BE USED FOR THE FIRST AND LAST 10 FEET OF UNDERGROUND RUN TO EMERGENCE PER NEC 514.
2. UNDERGROUND PVC CONDUIT SHALL BE USED ONLY AS ALLOWED BY NEC 514-8, EXCEPTION NO. 2 AND APPLICABLE LOCAL CODES. VERIFY SUITABILITY WITH ALL APPROPRIATE AGENCIES. PVC CONDUIT SHALL BE SCHEDULE 40 OR HEAVIER WITH ALL PORTIONS BURIED A MINIMUM 2 FEET BELOW GRADE.
3. THE DISPENSER CONDUITS ARE TO BE STUBBED UP OUTSIDE OF THE DISPENSER SUMP. NO CONDUITS WILL PENETRATE THE DISPENSER SUMPS.

A9 CONDUIT STUB UP DETAILS

NTS



A13 EPOXY FILLED SPLICE KIT

NTS

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DETAILS

SHEET NUMBER:

XF313

RELEASED FOR CONSTRUCTION
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Development Services Department
Lee's Summit, Missouri
03/10/2025

I. GENERAL NOTE:

THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF THE GASOLINE UNDERGROUND STORAGE TANKS AND SHALL INSURE THAT GOOD WORKMANSHIP PRACTICES AND CONSTRUCTION PROCEDURES ARE FOLLOWED REGARDLESS OF THE INCLUSION OR OMISSION OF ANY INSTRUCTION.

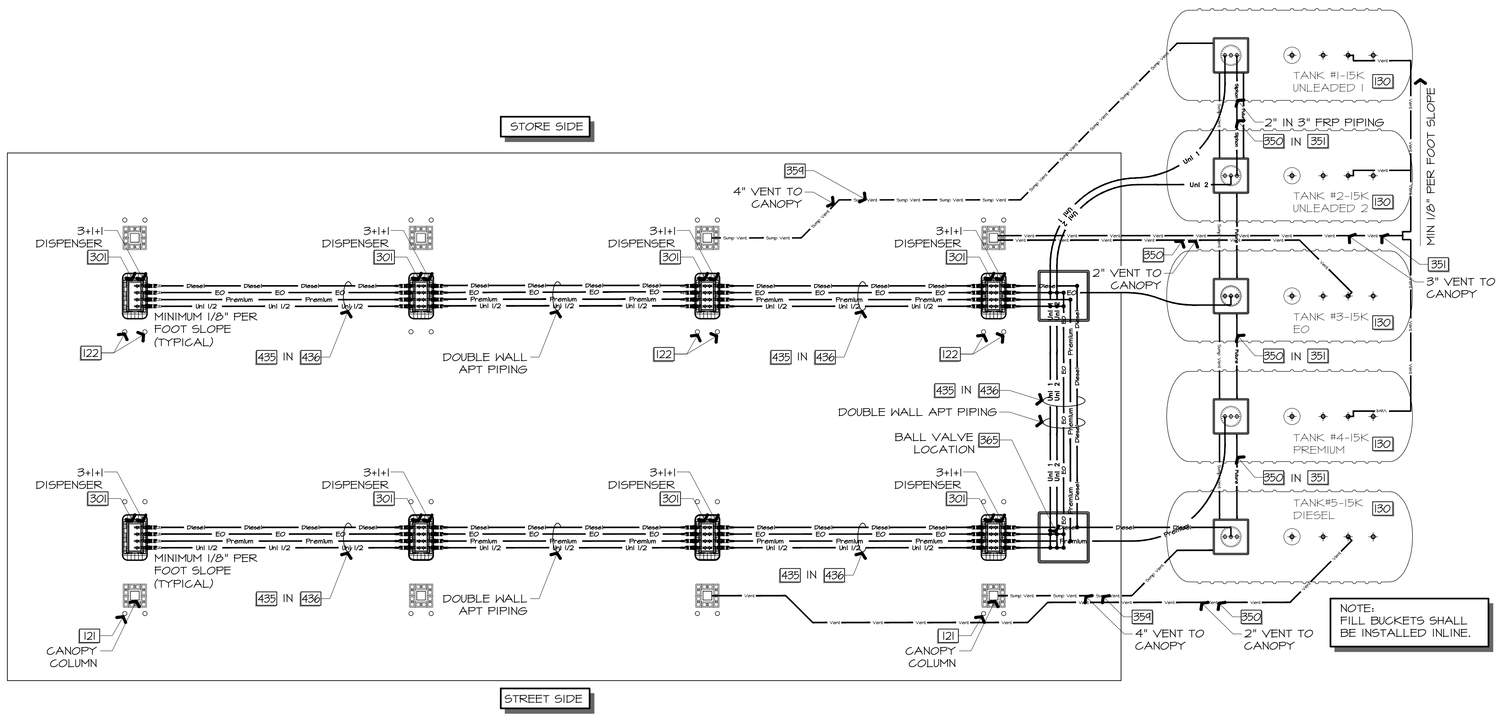
UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THESE AND THE MANUFACTURER'S INSTRUCTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. MANUFACTURER'S SPECIALISTS ARE AVAILABLE FOR CONSULTATION. THE PRESENCE OF THE MANUFACTURER OR OBSERVER AT AN INSTALLATION SITE DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR THE PROPER INSTALLATION OF THE TANKS.

QUESTIONS REGARDING INSTALLATION PROCEDURES OR TANK REPAIRS SHOULD BE DIRECTED TO THE QUIKTRIP FIELD REPRESENTATIVE.

GASOLINE UNDERGROUND TANKS MUST BE INSTALLED ACCORDING TO THESE INSTRUCTIONS, THE MANUFACTURER'S INSTRUCTIONS AND NFPA 30 AND 30A. LOCAL CODES MAY APPLY AND MUST BE ADHERED TO. FAILURE TO FOLLOW THESE INSTALLATION INSTRUCTIONS WILL VOID THE WARRANTY AND WILL RESULT IN TANK FAILURE. PROPER INSTALLATION OF GASOLINE UNDERGROUND STORAGE TANKS HELPS PREVENT TANK DAMAGE AND SHOULD INSURE LONG-TERM CORROSION-PROOF SERVICE. IT IS IMPERATIVE TO READ, UNDERSTAND AND FOLLOW THESE INSTRUCTIONS.

THESE SPECIFICATIONS ARE SUPPLEMENTED BY THE RESPECTIVE TANK MANUFACTURER'S SPECIFICATIONS. THE INSTALLATION PROCEDURE SHALL COMPLY WITH BOTH SETS OF INSTRUCTIONS AND SPECIFICATIONS. IF, IN THE CONTRACTOR'S JUDGMENT, THERE APPEARS TO BE A CONFLICT IN THESE SPECIFICATIONS AND THE TANK MANUFACTURER'S INSTRUCTIONS, CONTACT THE LOCAL QUIKTRIP REPRESENTATIVE FOR CLARIFICATION AND GUIDANCE.

1. ALL PRODUCT LINES ARE SECONDARILY CONTAINED.
2. EVERY TANK CONTAINMENT SUMP AND DISPENSER CONTAINMENT SUMP SHALL CONTAIN A LIQUID SENSING PROBE.
3. SPARE ELECTRICAL CONDUITS MUST BE SEALED.
4. SEE ELECTRICAL SHEETS FOR ELECTRICAL CONDUIT LAYOUT.
5. FILL, VENT/VAPOR AND AUTOMATIC TANK GAUGE RISER MUST BE FRP
6. ADHESIVE EPOXY KIT SHALL BE USED ON ALL SUMP VENT ENTRY FITTINGS.



TANK NUMBERING:	
TANK #1	15K UNLEADED #1
TANK #2	15K UNLEADED #2
TANK #3	15K EO
TANK #4	15K PREMIUM
TANK #5	15K DIESEL

HYDROSTATIC SUMP TESTING STANDARD
NEW STORE

WATER SHOULD NOT BE ALLOWED TO DWELL IN THE SUMPS. REMOVE IMMEDIATELY AFTER TESTING.
HYDROSTATIC TESTING OF ALL DISPENSER, TANK TOP, AND TRANSITION SUMPS WILL BE MANDATORY. ALL PETROLEUM PRODUCT, AND DIESEL EXHAUST FLUID SUMPS IN ALL MARKETS ARE TO BE INCLUDED.

DURING THE CONSTRUCTION PROCESS, ALL SUMPS SHOULD BE PROTECTED FROM STORMWATER, AND DEBRIS. CORROSION OF METALLIC PARTS PRIOR TO PLACING THE SITE INTO SERVICE SHOULD BE KEPT TO A MINIMUM.

PRIOR TO TESTING SUMPS THE FOLLOWING WORK WILL NEED TO BE COMPLETED.

- ALL EQUIPMENT INSTALLATION HAS BEEN COMPLETED WITHIN SUMPS, ALL BOOTS IN PLACE
- JUMPER TUBES CONNECTED WITHIN SUMP
- SUMPS HAVE BEEN CLEANED OF DIRT, AND DEBRIS
- ALL ELECTRICAL WORK HAS BEEN COMPLETED, AND INSPECTED

ALL TESTING WILL BE PERFORMED, AND PASSED PRIOR TO THE INTRODUCTION OF PETROLEUM, OR OTHER PRODUCTS TO TANKS, OR LINES.

TEST PROCESS:

- TESTS TO BE PERFORMED USING CLEAN MUNICIPALLY TREATED WATER.
- TEMPORARY CAPS TYPICALLY USED IN PLUMBING SYSTEMS WILL NEED TO BE USED TO SEAL ALL OPEN 4 INCH VENTILATION LINES IN TANK SUMPS.
- MAINTAIN 5 PSI OF PRESSURE ON SECONDARY PIPING UNTIL A PASSING RESULT IS OBTAINED
- TEST ALL SUMPS TO AN ELEVATION OF APPROX. 2 INCHS ABOVE THE HIGHEST SEALED PENETRATION.
- FOR THE PURPOSE OF CONSISTENCY QUIKTRIP WILL REQUIRE THE USE OF A "CALDWELL SUMP TESTER" AVAILABLE THROUGH CALDWELL INSTRUMENTS. PHONE #(916)254-4567.
- A PASSING TEST WILL REQUIRE NO MOVEMENT IN THE TEST DEVICE INDICATOR FOR A TERM OF ONE HOUR. A PRE-TEST MAY BE ADVISED TO DETERMINE THE EXISTENCE OF HIGH VOLUME LEAKS
- QUIKTRIP WILL REQUIRE THE REMOVAL OF ALL WATER IN SUMPS IMMEDIATELY AFTER PASSING TEST RESULTS ARE DOCUMENTED. THE REMOVAL OF CLEAN SYSTEM WATER SHOULD NOT REQUIRE ANY TYPE OF DISPOSAL CONSIDERATIONS.
- THE PROCESS FOR TESTING SUMPS, AND DISPOSING OF WATER ON FACILITIES THAT HAVE BEEN PLACED INTO OPERATION SHALL BE COORDINATED WITH QUIKTRIP REPRESENTATIVE PRIOR TO TESTING FOR APPROVAL FROM QUIKTRIP ENVIRONMENTAL GROUP.
- ALL SUMPS MUST PASS THIS TEST PRIOR TO THE INTRODUCTION OF MOTOR FUEL PRODUCTS INTO THE TANKS, OR LINES
- THIS TESTING PROCESS IS INTENDED TO COMPLY WITH QUIKTRIP'S DESIRE TO VERIFY THAT ALL SUMPS ARE LIQUID TIGHT PRIOR TO OPERATING ANY SYSTEM. THIS TESTING PROCESS MAY NEED TO BE MODIFIED IN ORDER TO COMPLY WITH STATE BY STATE REQUIREMENTS.
- REPORTING WILL BE REQUIRED BY SITE, AND BY SUMP. DOCUMENTATION SHALL BE FORWARDED TO THE QUIKTRIP ENVIRONMENTAL GROUP ALONG WITH OTHER REQUIRED FUEL SYSTEM DOCUMENTATION.

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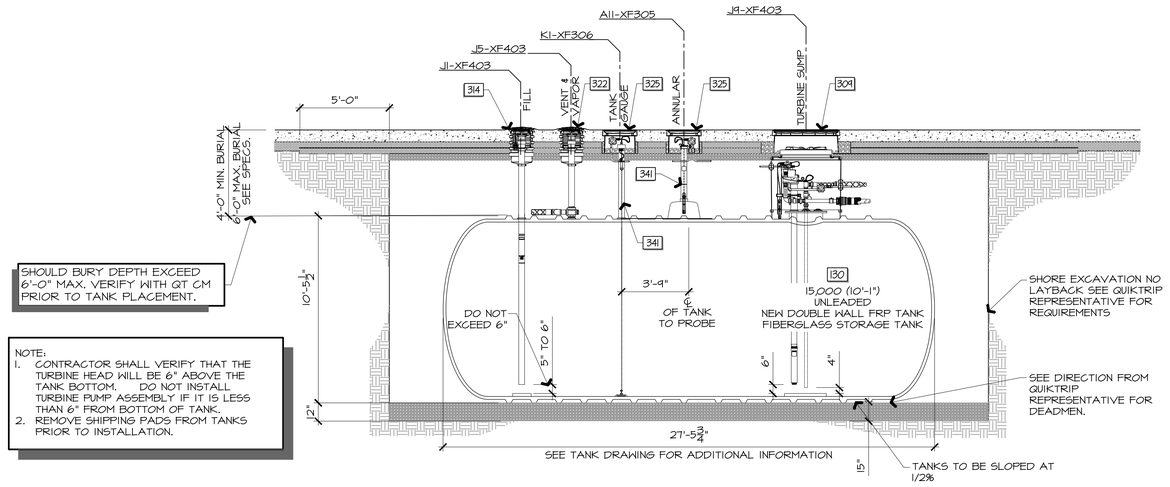
SHEET TITLE:
UNDERGROUND PIPING SYSTEM PLAN

SHEET NUMBER:
XF401

A1
1/8"=1'-0"
PETROLEUM DISPENSING SYSTEM UNDERGROUND PIPING AND CONFIGURATION

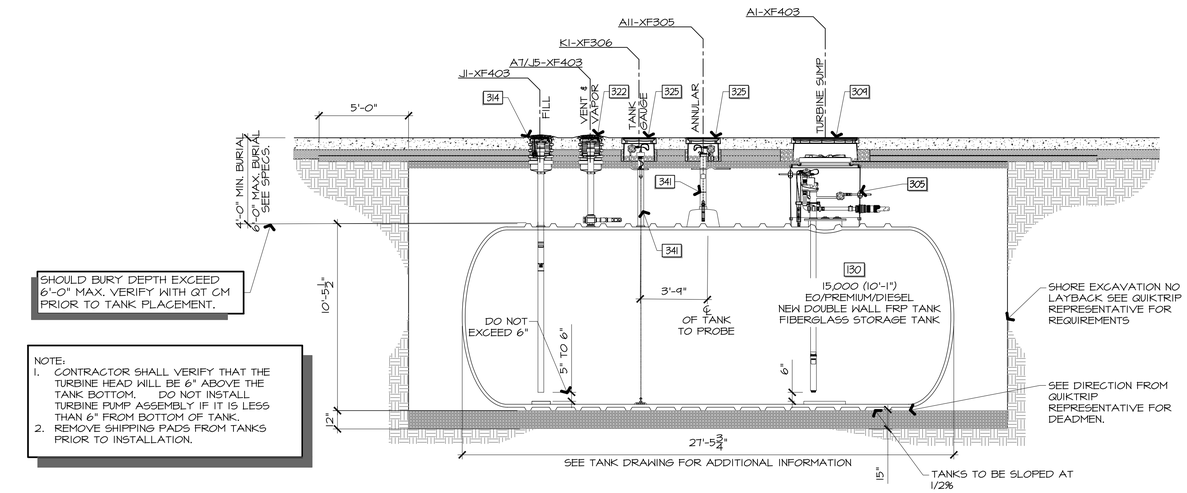
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/03/2025



SHOULD BURY DEPTH EXCEED 6'-0" MAX. VERIFY WITH QT CM PRIOR TO TANK PLACEMENT.

NOTE:
1. CONTRACTOR SHALL VERIFY THAT THE TURBINE HEAD WILL BE 6" ABOVE THE TANK BOTTOM. DO NOT INSTALL TURBINE PUMP ASSEMBLY IF IT IS LESS THAN 6" FROM BOTTOM OF TANK.
2. REMOVE SHIPPING PADS FROM TANKS PRIOR TO INSTALLATION.

J1 15K TANK MECHANICAL - SECTION
1/4"=1'-0"



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2. REMOVE SHIPPING PADS FROM TANKS PRIOR TO INSTALLATION.

A1 15K TANK MECHANICAL - SECTION
1/4"=1'-0"

STATE OF MISSOURI
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UST SECTIONS

SHEET NUMBER:
XF402

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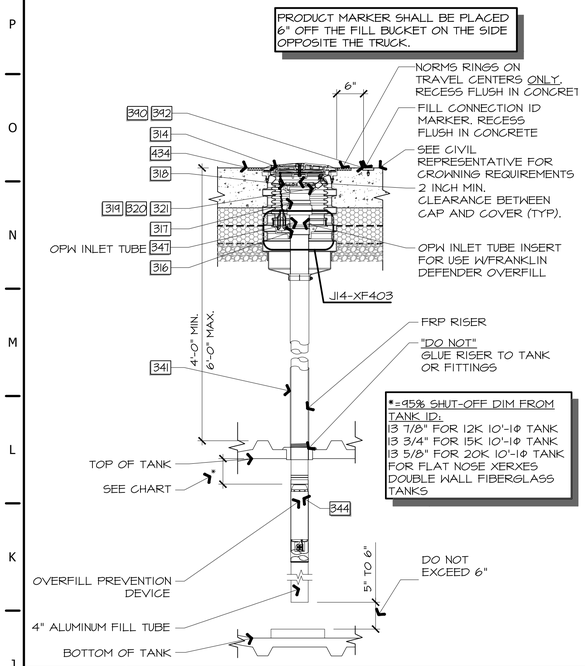
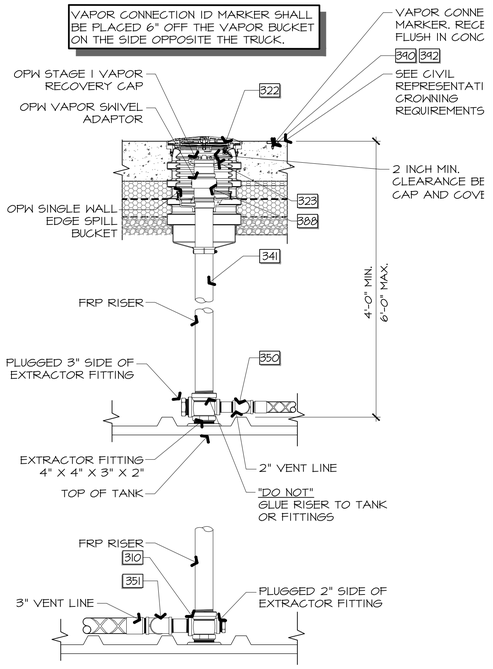
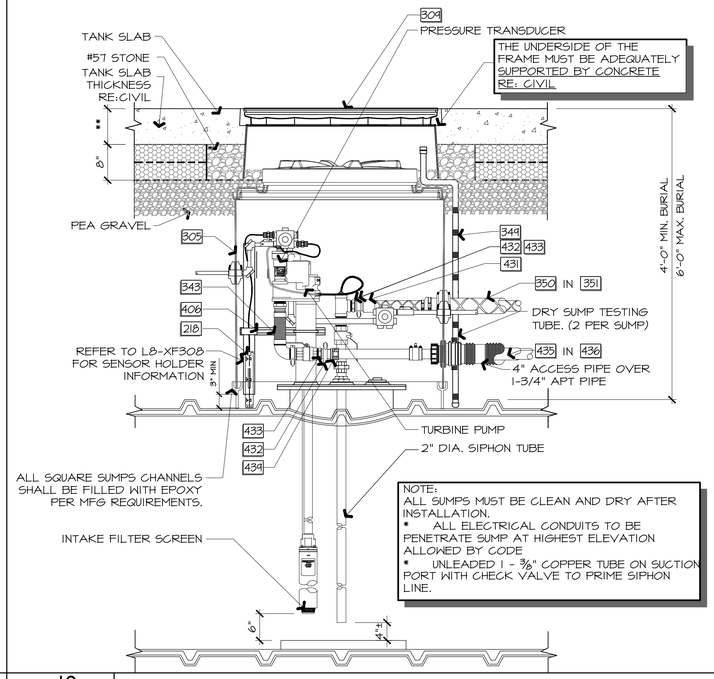
12/02/2024



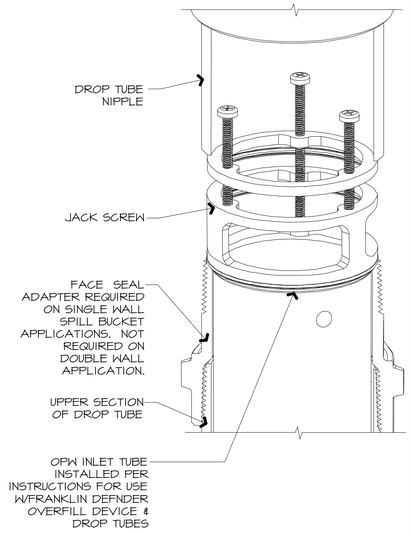
J1	UST FILL DETAIL		
3/4" = 1'-0"	A9/J9-XF203	A1/J1-XF402	A1-XF412



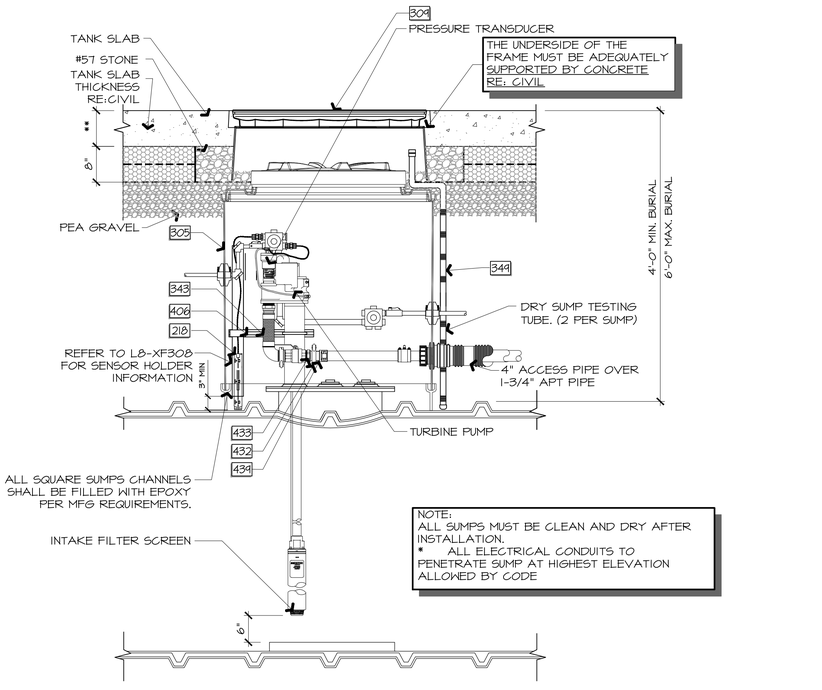
J5	VAPOR RECOVERY DETAIL		
3/4" = 1'-0"	A9/J9-XF203	A1/J1-XF402	A1-XF412



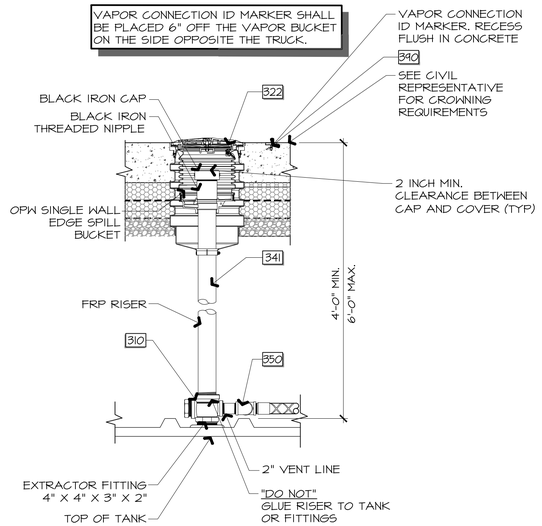
J9	UNLEADED TURBINE SUMP		
3/4" = 1'-0"	J9-XF203	J1-XF402	



J14	JACK SCREW DETAIL		
N.T.S.	A12/J1-XF403		



A1	EO/PREMIUM /DIESEL TURBINE SUMP		
3/4" = 1'-0"	A9-XF203	A1-XF402	



A7	DIESEL VENT/VAPOR		
3/4" = 1'-0"	A1-XF402	J1-XF402	

A12	NOT USED

STATE OF MISSOURI
DAVID MICAH LEIFFER
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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

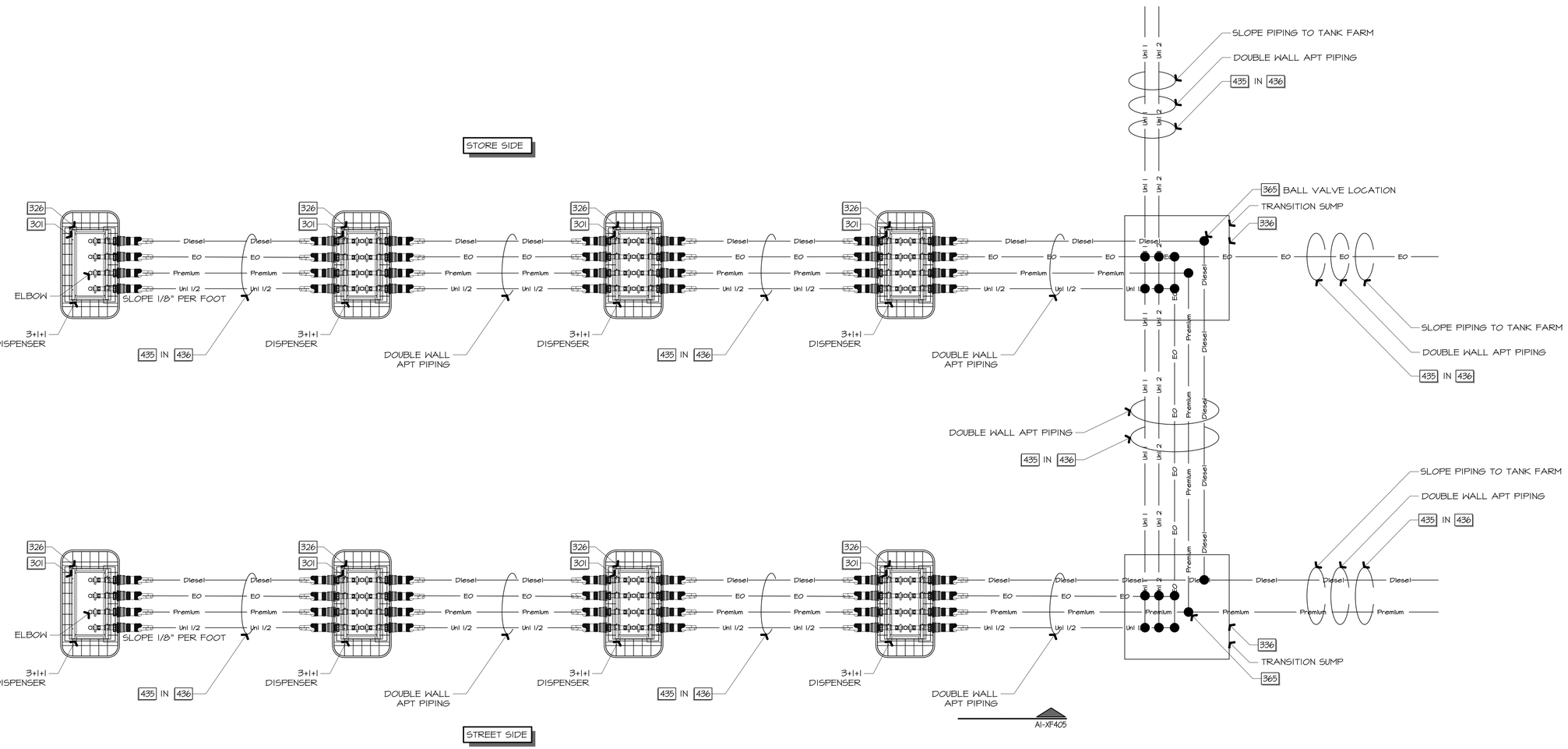
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
TANK TOP EQUIPMENT DETAILS

SHEET NUMBER:
XF403

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/03/2025



A1
3/8"=1'-0"

DISPENSER SUMP-PLAN VIEW

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER 2013011214
PROFESSIONAL ENGINEER
11/25/2024

SIGNATURE DATE:

CORE STATES GROUP
212 E 14th Street
Suite 2
Bentonville, AR 72712
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corestates.com

QuikTrip No. 0183R

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DISPENSER & ISLAND DETAILS

SHEET NUMBER:
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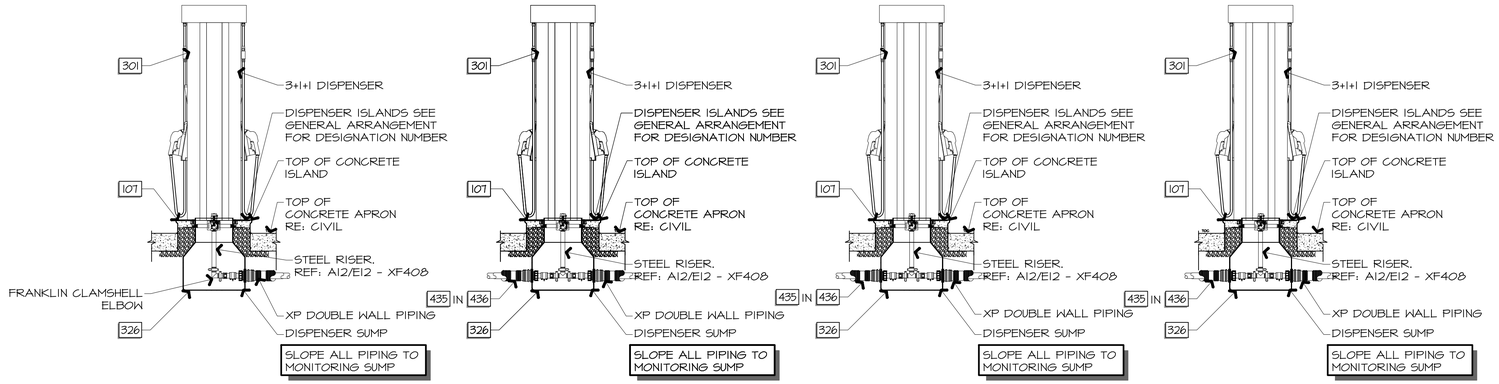

301
3+1+1 DISPENSER
DISPENSER ISLANDS SEE GENERAL ARRANGEMENT FOR DESIGNATION NUMBER
107
TOP OF CONCRETE ISLAND
TOP OF CONCRETE APRON RE: CIVIL
STEEL RISER, REF: A12/E12 - XF408
435 IN 436
326
XP DOUBLE WALL PIPING
DISPENSER SUMP
SLOPE ALL PIPING TO MONITORING SUMP

301
3+1+1 DISPENSER
DISPENSER ISLANDS SEE GENERAL ARRANGEMENT FOR DESIGNATION NUMBER
107
TOP OF CONCRETE ISLAND
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435 IN 436
326
XP DOUBLE WALL PIPING
DISPENSER SUMP
SLOPE ALL PIPING TO MONITORING SUMP

A1
3/8"=1'-0"
DISPENSER SUMP-END VIEW
A1-XF404

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SHEET NUMBER:
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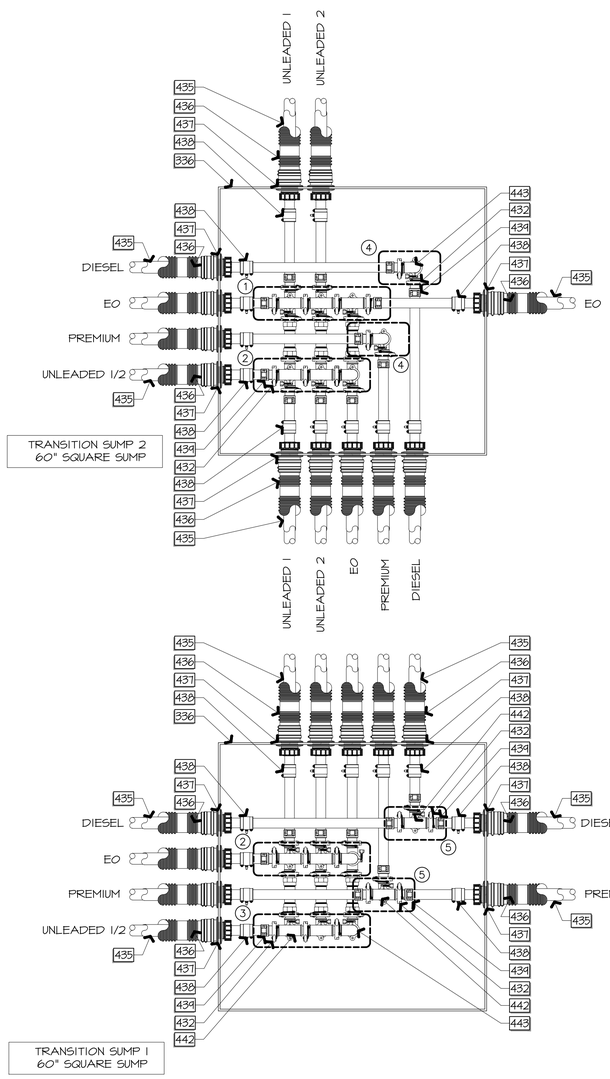

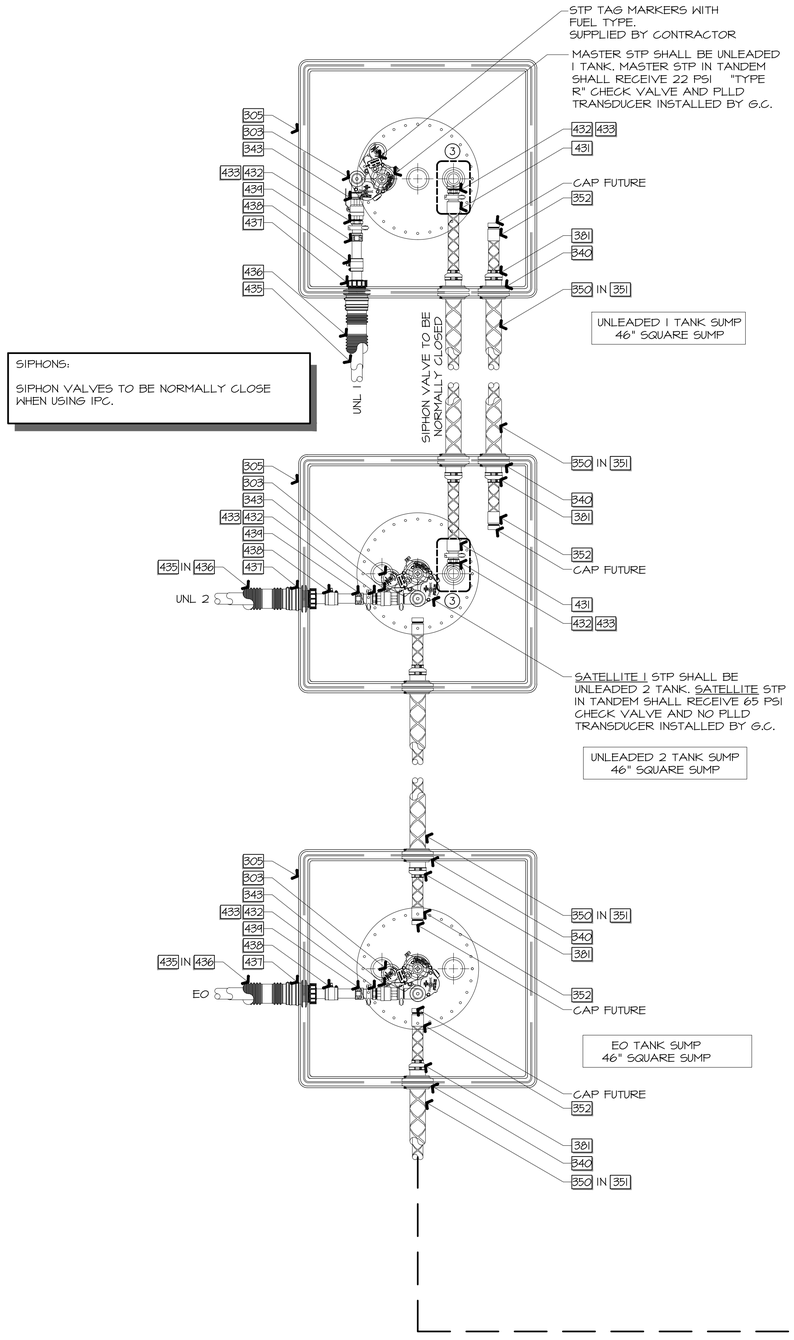

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Lee's Summit, Missouri
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DAVID MICAH LEIFFER
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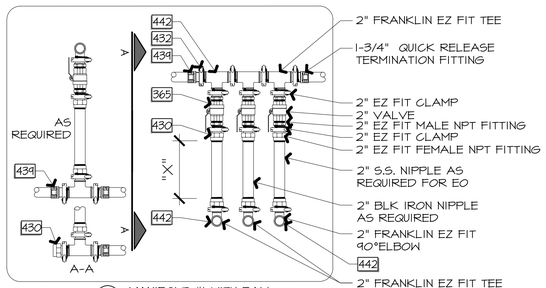
UST, TRANSITION SUMP AND MISCELLANEOUS DETAILS

SHEET NUMBER:

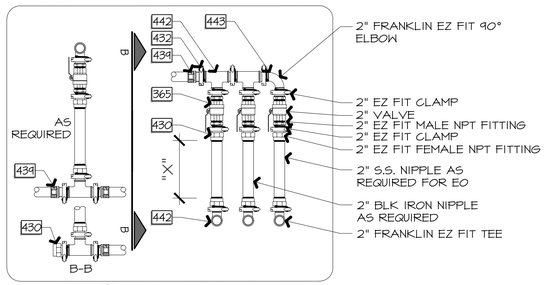
XF406

A1
3/4" = 1'-0"

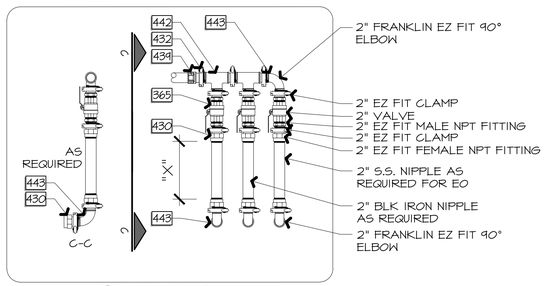
TANK AND TRANSITION SUMP DETAILED PLAN



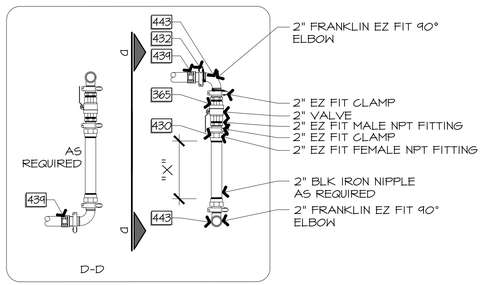
1 MANIFOLD #1 WITH BALL VALVE AND FITTINGS



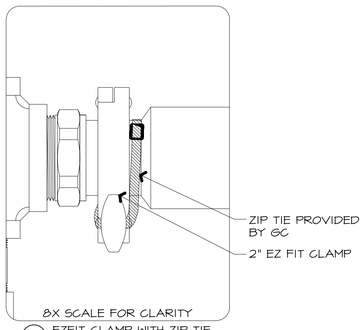
2 MANIFOLD #2 WITH BALL VALVE AND FITTINGS



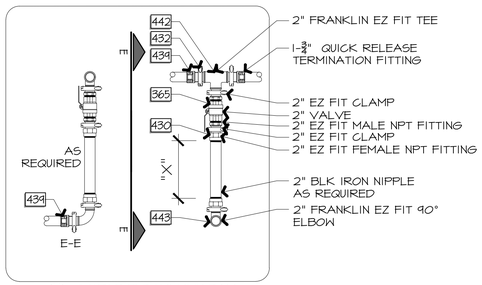
3 MANIFOLD #3 WITH BALL VALVE AND FITTINGS



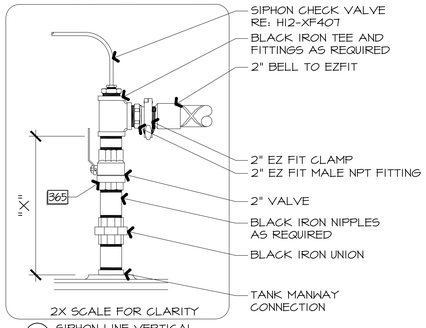
4 DOUBLE ELBOW1 WITH BALL VALVE AND FITTINGS



6 EZFIT CLAMP WITH ZIP TIE INSTALLATION



5 DOUBLE ELBOW1 WITH BALL VALVE AND FITTINGS



6 SIPHON LINE VERTICAL BALL VALVE AND FITTINGS

EZFIT CLAMP:
FOR ALL CLAMPS, ENSURE A ZIP TIE IS INSTALLED THROUGH WING NUT HOLD AND AROUND THE PLUMBING IN A MANNER THAT KEEPS TENSION ON THE WING NUT IN THE TIGHTENING DIRECTION.

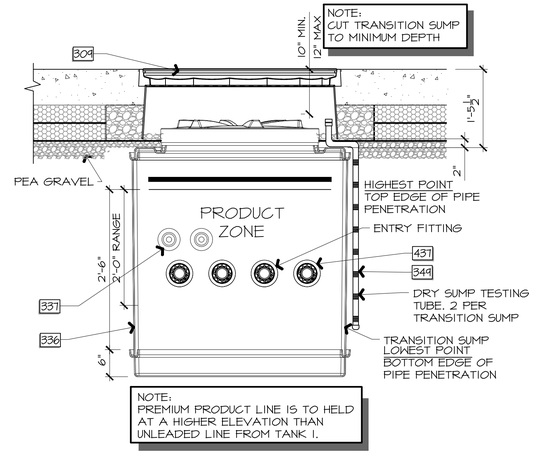
VALVE NOTES:
- "X" DIMENSION INDICATES REQUIRED FRP PIPE LENGTH TO INSTALL VALVE ASSEMBLY PER FIELD CONDITIONS
- ALL VALVE HANDLES TO BE UP IN THE OPEN POSITION
- LABEL VALVE WITH PRODUCT TANK ID. CONSULT QT REP FOR INFORMATION

GC TO COORDINATE TRANSITION SUMP BALL VALVE OPEN/CLOSE POSITIONS WITH QT CONSTRUCTION MANAGER. BALL VALVE HANDLES TO BE REMOVED IN TRANSITION SUMPS ONLY AND GIVEN TO QT CONSTRUCTION MANAGER AFTER OPEN/CLOSE POSITIONS ARE VERIFIED.

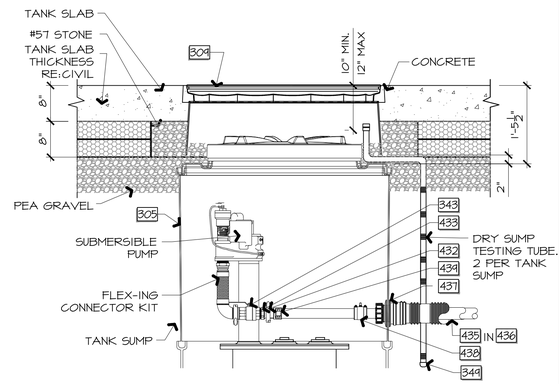
NOTES:
- PRESET PUMP SETTING PER MANUFACTURERS INSTRUCTIONS

NOTE:
LOCATION OF SUMP PENETRATION WILL VARY. THE INTENT OF THIS DRAWING IS TO ILLUSTRATE THE CORRECT PLACEMENT AND CONNECTION OF PIPING WITHIN THE SUMP.
- ALL BALL VALVES TO BE SEALED THREAD SEALANT WITH TEFLON.
- ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY
- All PIPING SHALL BE INSPECTED/CONFIRMED TO BE CLEAR OF ALL BEDDING MATERIAL, TRASH, ANY TYPE OF LIQUID OR DEBRIS PRIOR TO AND AFTER INSTALLATION.

STP PUMPS IN TANDEM SHALL BE PROGRAMMED TO BE IN THE MASTER/SATELLITE CONFIGURATIONS PER THE MANUFACTURER'S INSTALLATION AND OWNER'S MANUAL. REFERENCE INTELLIGENT PUMP CONTROL- 577014-361, LATEST REVISION.



L13 TRANSITION SUMP PENETRATION PLACEMENT
3/4" = 1'-0"



F13 TANK SUMP ELEVATION SHOWING ONLY PUMP DETAILS
3/4" = 1'-0"

A1 TANK AND TRANSITION SUMP DETAILED PLAN
3/4" = 1'-0"

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DAVID MICAH LEIFFER
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PROFESSIONAL ENGINEER
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UST, TRANSITION SUMP AND MISCELLANEOUS DETAILS

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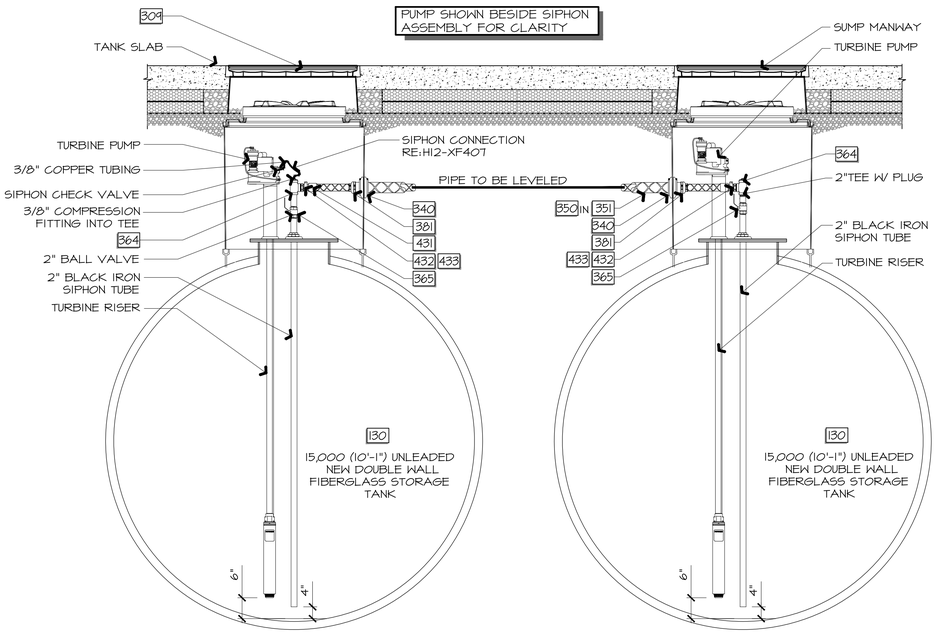
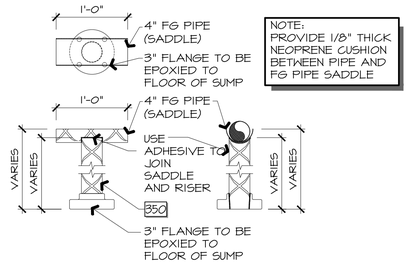
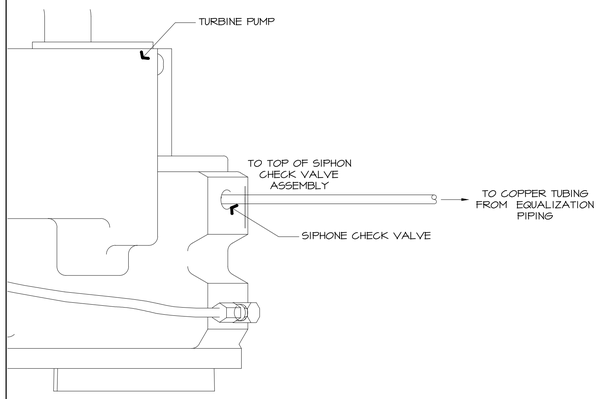


H1 UNLEADED TANK SIPHON ONLY DETAILS
1/2" = 1'-0"



NOTE:
PROVIDE 1/8" THICK NEOPRENE CUSHION BETWEEN PIPE AND FG PIPE SADDLE

H8 PIPE SUPPORT IN TRANSITION SUMP DETAIL
1/2"=1'-0"



1. INSTALL TEST FIXTURE IN EQUALIZATION LINE AS SHOWN ABOVE.
2. RUN THE SUBMERSIBLES WITH DISPENSER NOZZLES CLOSED. THE NORMAL VACUUM READING SHOULD BE 15-28". NOTE: HIGHER RVP FUELS AND/OR HIGHER FUEL TEMPERATURES CAN RESULT IN LOWER VACUUM READINGS . IF THE VACUUM IS SOMEWHAT LESS THAN 15" THERE IS THE POSSIBILITY OF BLOCKAGE IN THE SIPHON PASSAGES (PLUGGED SIPHON NOZZLE AND/OR VENTURI, PLUGGED SIPHON PORT, PLUGGED/PINCHED RETURN TUBE). TO REMEDY, CLEAN THE PASSAGES AND REPLACE IF NECESSARY. IF THE PASSAGES ARE CLEAN AND THE VACUUM READING IS ZERO OR VERY LOW, A LEAK MAY BE PRESENT IN THE FLOW PATH TO THE SIPHON JET OR IN THE DISCHARGE TUBE. PULL THE EXTRACTABLE PORTION AND REPAIR AS NECESSARY
3. RUN THE SUBMERSIBLE WITH DISPENSER NOZZLES CLOSED. VERIFY SIPHON CHECK VALVE IS HOLDING VACUUM. IF NOT, REMOVE AND CLEAN OR REPLACE. NOTE: SIPHON CHECK VALVES MAY HOLD AT HIGH VACUUMS, BUT LEAK UNDER LOW VACUUMS. TEST THE SIPHON CHECK VALVE AT A LOWER VACUUM BY BLEEDING THE VACUUM TO ABOUT 5" Hg AND REPEAT THE TEST
4. EQUALIZATION SHALL BE SIGNED BY THE GENERAL CONTRACTOR AND TANK INSTALLER. VERIFICATION SHALL BE PROVIDED TO THE OWNER AS PART OF THE CLOSE OUT DOCUMENTS

H12 SIPHON CHECK VALVE DETAIL
N.T.S.

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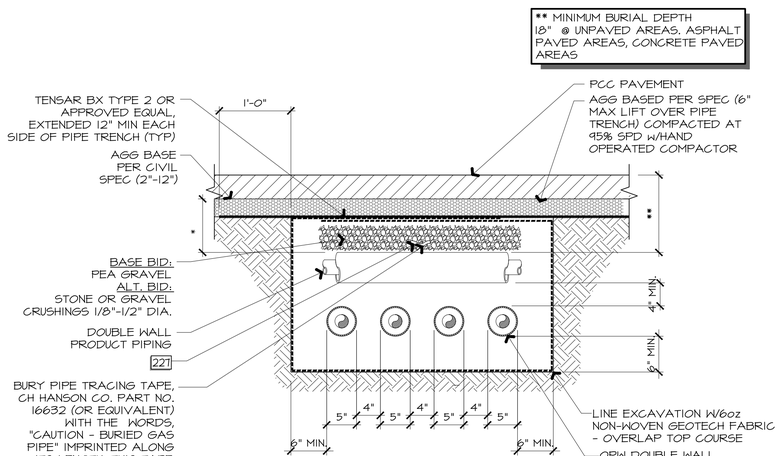
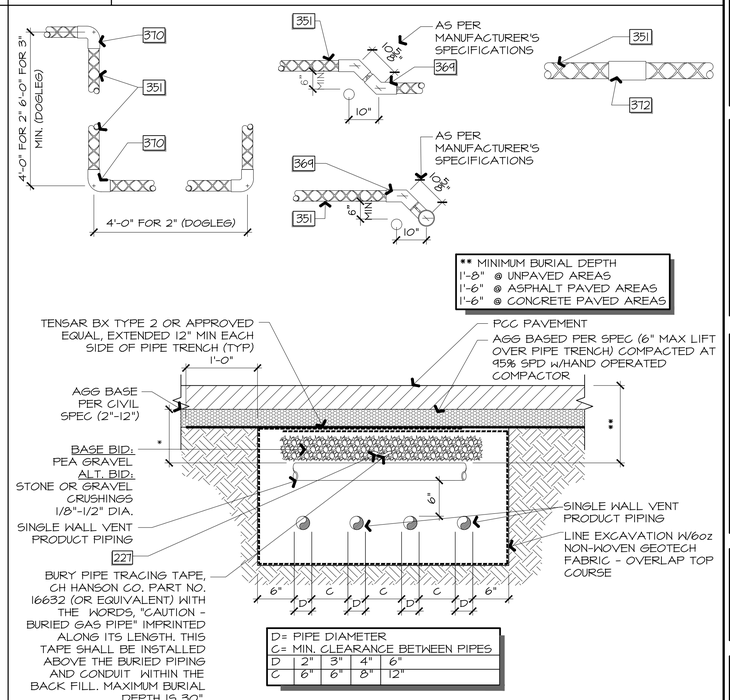
A1 NOT USED



A5 UNDERGROUND PROUCT PIPING TRENCH AND COVER DETAIL
N.T.S.



D= PIPE DIAMETER				
C= MIN. CLEARANCE BETWEEN PIPES				
D	2"	3"	4"	6"
C	6"	6"	8"	12"

A12 FIBERGLASS VENT PIPING TRENCH, FITTING AND CONNECTION TYP. DETAILS
N.T.S.

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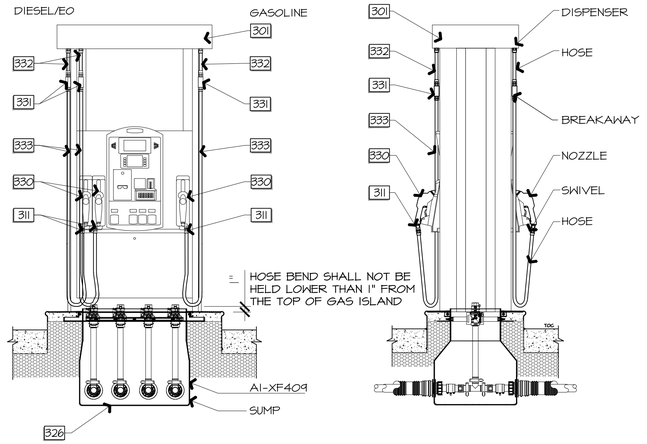
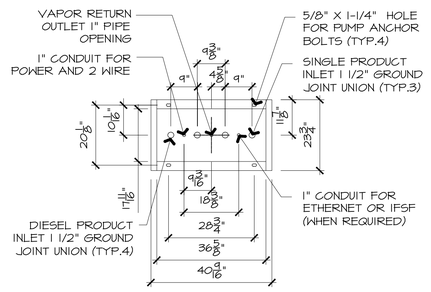


K1 — 3+1+1 DIESEL/EO(E15) GASOLINE DISPENSER ELEVATION — 1/2" = 1'-0"

K7 — NOT USED

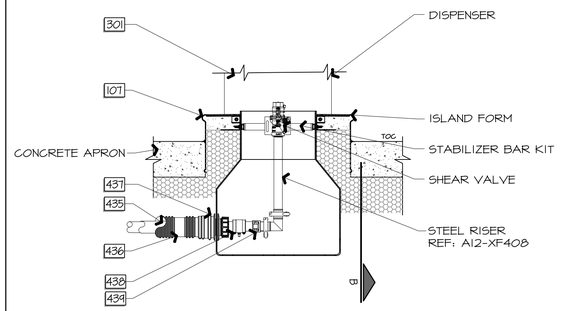
K12 — NOT USED

E1 — NOT USED



BASE - 3+1+1

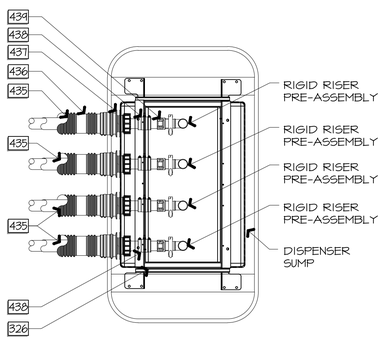
E4 — DISPENSER FOOTPRINT 3+1+1 — 1/2" = 1'-0"



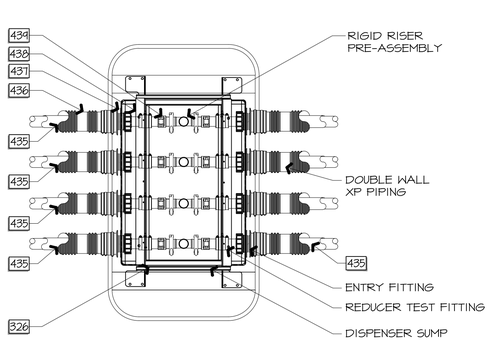
NOTES:
1. COVER DISPENSER SUMPS DURING CONSTRUCTION TO PREVENT DUST & RAIN FROM ENTERING SUMP.
2. ALL SUMPS MUST BE CLEAN AND DRY AFTER INSTALLATION.

E8 — PRODUCT CONNECTION END OF PIPING RUN (SECTION) — 3/4" = 1'-0"

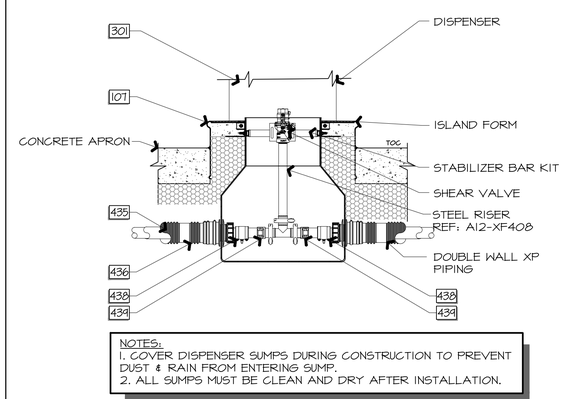
E12 — NOT USED



A1 — END OF PIPING RUN (PLAN) — 3/4" = 1'-0"



A4 — PRODUCT CONNECTION AT ISLANDS THROUGH DETAIL — 3/4" = 1'-0"

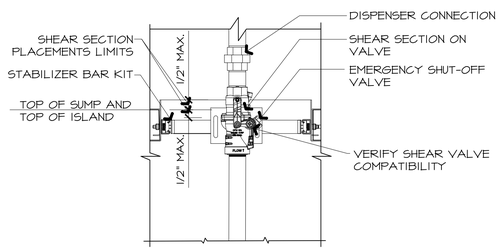


NOTES:
1. COVER DISPENSER SUMPS DURING CONSTRUCTION TO PREVENT DUST & RAIN FROM ENTERING SUMP.
2. ALL SUMPS MUST BE CLEAN AND DRY AFTER INSTALLATION.

A8 — PRODUCT CONNECTION — 3/4" = 1'-0"

SHEAR VALVE MUST BE SET AT PROPER HEIGHT. SHEAR POINT TO BE SET AT TOP OF ISLAND AT ALL NON-ADA LOCATIONS.

CONNECTION BETWEEN DISPENSER AND SHEAR VALVE BY S.C. UNLEADED GASOLINE & DIESEL BLENDS SHALL BE BLACK IRON. EO/E15/E85 SHALL BE S.S.



A12 — SHEAR VALVE DETAIL (NON-ADA) — 1 1/2" = 1'-0"

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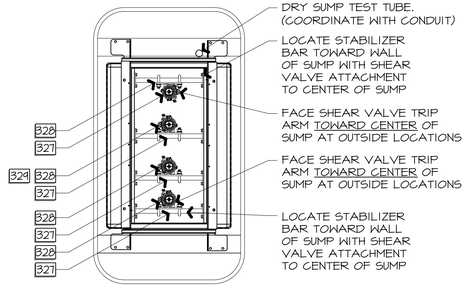
L1 NOT USED

L6 SHEAR VALVE INSTALLATION

3/4" = 1'-0"



CONTRACTOR NOTE:
THE OUTSIDE SHEAR VALVES MUST HAVE TRIP ARM FACING TOWARD THE CENTER OF THE SUMP TO ALLOW CLEARANCE FOR UNOBSTRUCTED OPERATION.
PLACEMENT OF THE SHEAR VALVE WITH THE TRIP ARM TOWARD THE SUMP WALL IS NOT PERMITTED

CONTRACTOR NOTE:
AFTER INSTALLATION OF SHEAR VALVES INSURE THAT ALL TRIP ARMS HAVE CLEARANCE AND ARE FREE FROM OBSTRUCTIONS AND ANYTHING THAT WOULD IMPEDE PROPER OPERATION OF VALVE IN AN EMERGENCY SITUATION

L11 NOT USED

F1 NOT USED

-

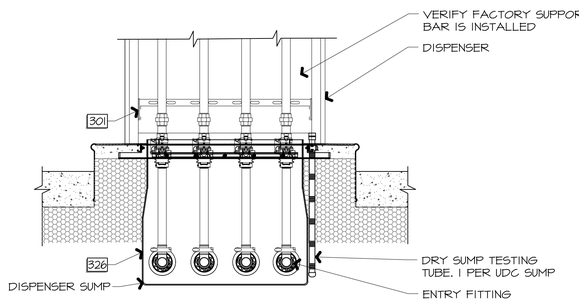
F6 SUMP DIMENSION DETAIL

1"=1'-0"

NOTES:
- PREP SUMP FOR ALL FITTINGS PER MANUFACTURES INSTRUCTIONS. USE MANUFACTURES RECOMMENDED ADHESIVE KIT.

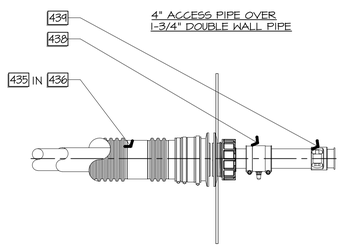
A1 3+1+1 DISPENSER SUMP SECTION

3/4" = 1'-0" K8-XF408



A6 BOOT INSTALLATION DETAIL

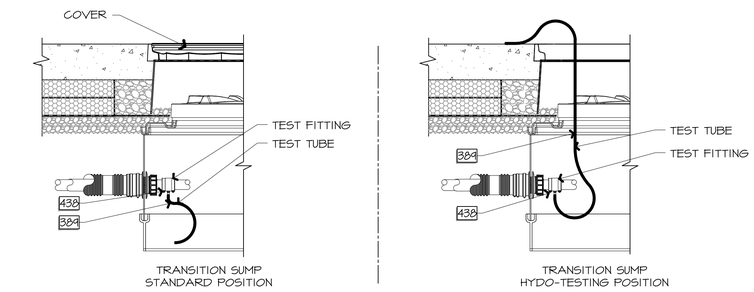
1-1/2" = 1'-0"

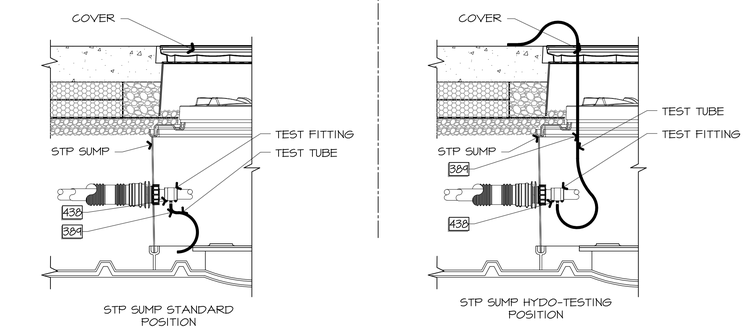


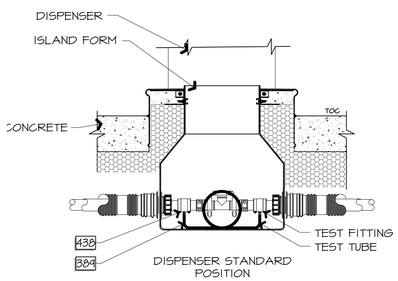
NOTES:
- INSTALL ALL DOUBLE WALL SWIVEL PIPE COUPLINGS WITH TEST VALVE PLACED IN THE 5 O'CLOCK POSITION.

A11 TEST TUBE DETAIL

3/4" = 1'-0"







NOTES:
1. TEST TUBE SHALL BE LONG ENOUGH TO REACH TOP OF CONCRETE FOR HYDROSTATIC TESTING.
2. LEAVE TEST TUBES INTACT UNTIL PROJECT TURNOVER. DO NOT CUT TUBES.

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER 2013011214
PROFESSIONAL ENGINEER
11/25/2024

SIGNATURE DATE:

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QuikTrip No. 0183R

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LEE'S SUMMIT, MISSOURI

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DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
DISPENSER & PIPING DETAILS

SHEET NUMBER:
XF409

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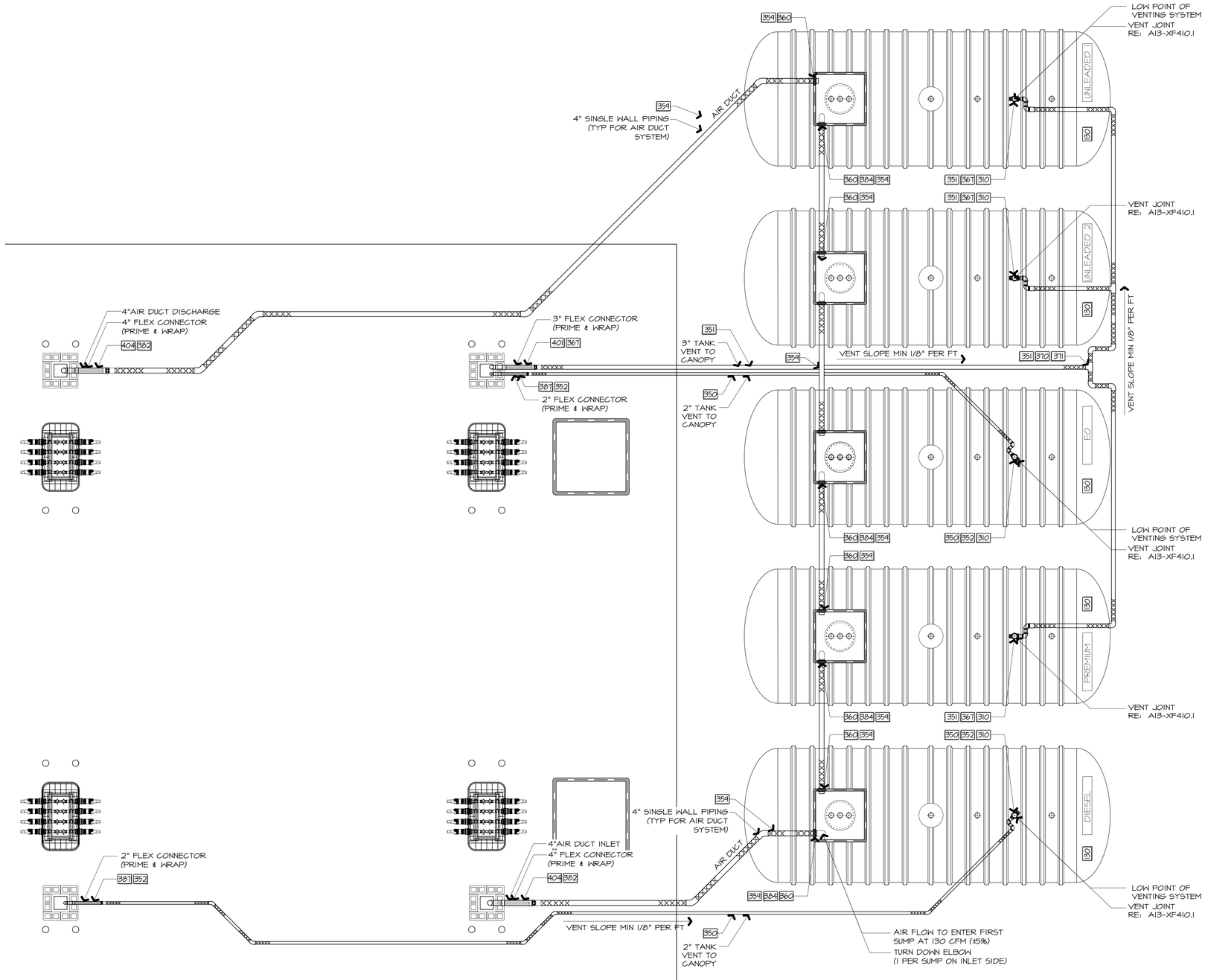
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/03/2024



A1
1/4" = 1'-0"

VENT/DUCT PIPING ENLARGED DETAIL

STATE OF MISSOURI
DAVID MICAH LEIFFER
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PROFESSIONAL ENGINEER
11/25/2024

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DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

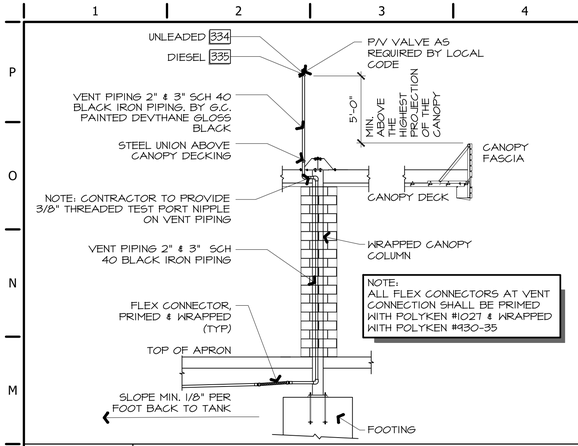
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
VAPOR, VENT DETAILS

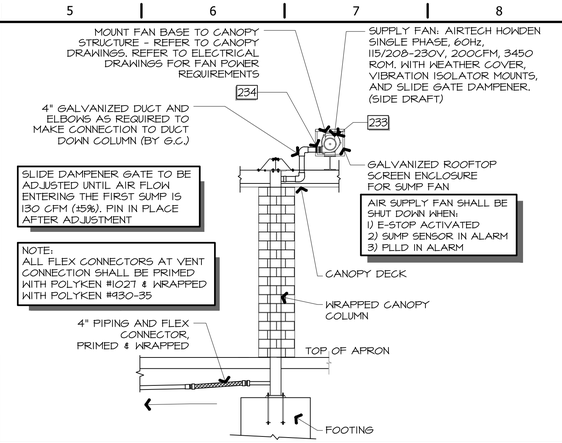
SHEET NUMBER:
XF410

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/03/2024



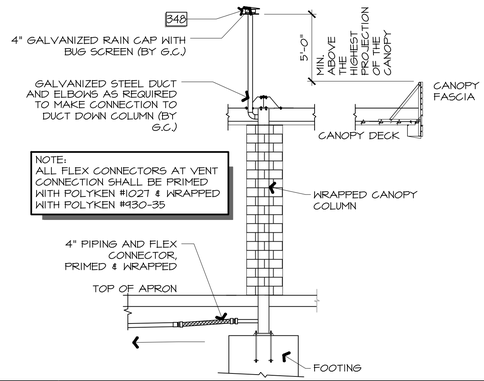
L1 VENT CONFIGURATION

3/16" = 1'-0"



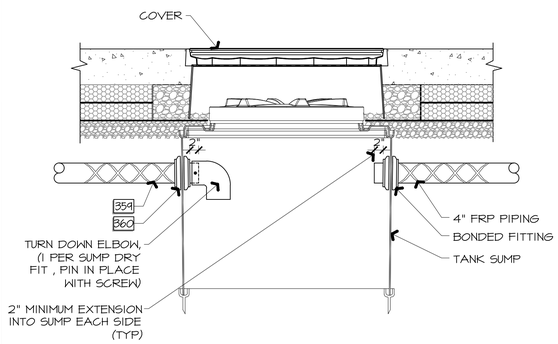
L5 SUMP VENTILATION INLET DETAIL

3/16" = 1'-0" | A1-XF410



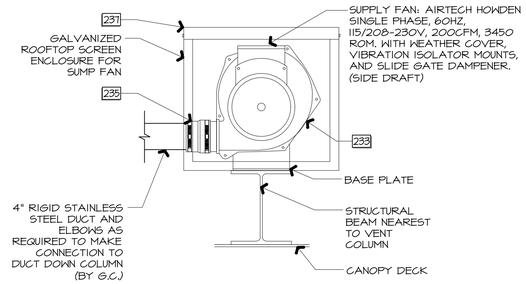
L9 SUMP VENTILATION DISCHARGE DETAIL

3/16" = 1'-0" | A1-XF410

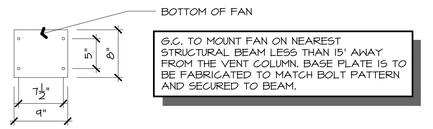


L13 SUMP SECTION

3/4" = 1'-0" | A1-XF410



CANOPY FAN DETAILS

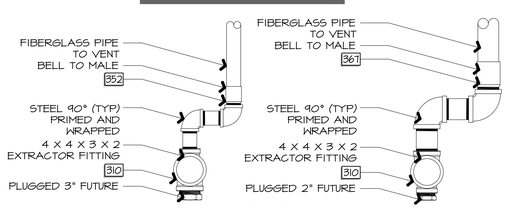


BOLT PATTERN DIMENSIONS

E13 CANOPY FAN DETAILS

1" = 1'-0" | A1-XF410

METAL PIPING COMPONENTS INSIDE THE TANK SUMPS SHALL BE BLACK IRON PRIMED/COATED PER SPEC RE: XF101 UNLESS OTHERWISE NOTED.



2" & 3" VENT LOCATIONS

A13 SWING JOINT DETAIL

1" = 1'-0" | A1-XF410

A1 NOT USED

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER 2013011214
PROFESSIONAL ENGINEER
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SHEET NUMBER:

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Lee's Summit, Missouri
03/10/2025

LEGEND

EQUIPMENT LOCATION ON SITE

ABBREVIATION	INSTALLATION LOCATION IN SYSTEM
U.A.	UST AREA
D.A.	DISPENSER AREA
U.S.	UST SUMP
T.S.	TRANSITION SUMP
D.S.	DISPENSER SUMP
T.T.E.	TANK TOP EQUIPMENT
S.B.	STORE BUILDING

COUNTY / AREA SENSITIVE EQUIPMENT

ABBREVIATION	FACILITY LOCATION	STATE	VAPOR RECOVERY REQUIRED
(ATL)	ATLANTA AREA	GEORGIA	STAGE I
(DAL)	DALLAS AREA	TEXAS	STAGE I
(OMA)	OMAHA AREA	NEBRASKA	STAGE I
(IWA)	IOWA AREA	IOWA	STAGE I
(STL)	ST. LOUIS AREA	MISSOURI	STAGE I
(PHX)	PHOENIX AREA	ARIZONA	STAGE I
(KC)	KANSAS CITY AREA	KANSAS	STAGE I
(WIC)	WICHITA AREA	KANSAS	STAGE I
(TUL)	TULSA AREA	OKLAHOMA	STAGE I
(TUC)	TUCSON AREA	ARIZONA	STAGE I
(NC)	CHARLOTTE AREA	N. CAROLINA	STAGE I
(SC)	SOUTH CAROLINA AREA	S. CAROLINA	STAGE I

PARTS LISTED IN BILL OF MATERIAL WITHOUT ADDED ABBREVIATION IN THE EQUIPMENT DESCRIPTION ARE STANDARD

QUIKTRIP SUPPLIED / INSTALLED SUMMARY

AREA AND ITEM DESCRIPTION	SUPPLIED BY OWNER / VENDOR	RECEIVED BY OWNER / VENDOR	INSTALLED BY OWNER / VENDOR		SUPPLIED BY CONTRACTOR	RECEIVED BY CONTRACTOR	INSTALLED BY CONTRACTOR	FINAL CONNECTIONS & TESTING BY CONTRACTOR
T UNDERGROUND TANKS								
1 GASOLINE TANKS						●	●	●
2 TANK ANCHORING EQUIPMENT						●	●	●
3 TANK TOP EQUIPMENT						●	●	●
4 SUBMERSIBLE PUMPS						●	●	●
G GAS CANOPY								
1 GAS CANOPY (NO LIGHTS)	●	●	●					
2 CANOPY SIGNAGE	●	●	●					●
3 CANOPY ANCHOR BOLTS	●					●	●	●
4 DISPENSERS	●					●	●	●
5 DISPENSER NUMBERS, SIGNAGE & DECALS	●					●	●	●
6 PAPER TOWEL HOLDERS	●					●	●	●
7 FIRE EXTINGUISHERS & CABINETS					●	●	●	●
8 TRASH CANS	●					●	●	
9 BUG BUCKETS/SQUEEGEES	●					●	●	●
10 COMMUNICATION	●	●	●					
11 E-STOPS					●	●	●	●
12 FITTINGS AND PIPING	●					●	●	●
13 HOSES AND NOZZLES	●					●	●	●
14 CANOPY DRAINS AND DRAIN LINES					●	●	●	●
15 CANOPY LIGHTS	●					●	●	●
16 CAMERAS	●	●					●	
17 INTERCOM SYSTEM	●					●	●	●
18 WIRING (POWER,DATA,& INTERCOM)					●	●	●	●
19 VEEDER ROOT SYSTEM	●						●	●
20 VEEDER ROOT WIRING (WINDY CITY)	●					●	●	●
21 FUEL EQUIPMENT, DATA BOXES, GSM, PAM, ETC.	●					●	●	●
22 FUEL PRE- MANUFACTURED PANELS, TRANSFORMERS , UPS UNITS, & ISOLATION BOXES	●					●	●	●
23 CERAMIC TILE (CONTINENTAL SLATE CS53 "ASIAN BLACK" 6X6, LATICRETE PERMACOLOR "BLACK" 22 GROUT)	●					●	●	

GENERAL EQUIPMENT

TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
101	NUMBER CURRENTLY NOT USED	-	-	-	-
102	NUMBER CURRENTLY NOT USED	-	-	-	-
103	TANK HOLD DOWN STRAPS	OWNER	10 FOOT STRAP	U.A.	25
			8 FOOT STRAP		0
104	TURNBUCKLE - GALVANIZED	OWNER	10 FOOT TURNBUCKLE	U.A.	50
			8 FOOT TURNBUCKLE		0
105	CONCRETE DEADMAN SEE QUIKTRIP REPRESENTATIVE FOR REQUIREMENTS	CONTRACTOR	-	U.A.	-
106	NUMBER CURRENTLY NOT USED	-	-	-	-
107	STEEL ISLAND FORMS 2'-8"X5'-0"	OWNER	#RS-2.8X513 GALV	D.A.	8
	STEEL ISLAND FORMS 2'-8"X5'-0" (ADA)		#RS-1G32051309QF		0
108	NUMBER CURRENTLY NOT USED	-	-	-	-
109	DEEP BURY TANK STICK 3 PC 20'	OWNER	BS-3520	U.A.	1
110	NUMBER CURRENTLY NOT USED	-	-	-	-
111	FIRE EXTINGUISHER MIN. SIZE AS PER LOCAL INSPECTOR	CONTRACTOR	SUPPLIED LOCALLY	D.A.	-
112	SAMSON IND. FIRE EXTINGUISHER CABINET WHITE W/ HAMMER AND CHAIN. SURFACE MOUNT OR EQUAL	CONTRACTOR	#9263Z30	D.A.	-
113	WASHER BUCKET W/QT GRAPHICS,	OWNER	DC-SWBC-GH	D.A.	8
114	NUMBER CURRENTLY NOT USED	-	-	-	-
115	12" DIA MONITOR/OBSERVATION WELL MANWAY	OWNER	OPW 104AOW-1200	U.A.	2
116	4 INCH DIA MONITOR/OBSERVATION WELL CAP	OWNER	TITAN 447040	U.A.	2
117	4 INCH FACTORY SLOTTED PVC PIPE, >02 SLOTS OR PER LOCAL REQUIREMENTS W/ CAPPED BOTTOM. ATLANTIC SCREEN OR EQUIV.	CONTRACTOR	-	U.A.	-
118	18" DIA MONITOR/OBSERVATION WELL MANWAY	OWNER	OPW 104AOW-1800	U.A.	1
119	12" DIA MONITOR/OBSERVATION WELL CAP	OWNER	TITAN CAP-12	U.A.	1
120	12" FACTORY SLOTTED PVC PIPE, >02 " SLOTS OR PER LOCAL REQUIREMENTS W/ CAPPED BOTTOM. ATLANTIC SCREEN OR EQUIV.	CONTRACTOR	-	U.A.	-
121	STEEL BOLLARD W/ CAP AND SLEEVE BY S&M- SCH40 (END PAINTED ORANGE)	OWNER	E823240	D.A.	16
122	STEEL BOLLARD W/ CAP AND SLEEVE BY S&M -SCH80 (END PAINTED GREEN)	OWNER	E826216	D.A.	16
123	BACKFILL SHIELD MATERIAL APPROVED BY SITE REPRESENTATIVE	CONTRACTOR	-	U.A.	-
124-129	NUMBER CURRENTLY NOT USED	-	-	-	-
130	15,000 GALLON DWX FIBERGLASS UNDERGROUND STORAGE TANK (10'-1" DIAMETER)	OWNER	XS-003439-00	U.A.	5
131	12,000 GALLON DWX FIBERGLASS UNDERGROUND STORAGE TANK (10'-1" DIAMETER)	OWNER	XS-005344-03	U.A.	-
132	20,000 GALLON DWX FIBERGLASS UNDERGROUND STORAGE TANK (10'-1" DIAMETER)	OWNER	XS002767-00	U.A.	-
133	GAS DISPENSER FILTER	OWNER	VERIFY	D.A.	AS REQUIRED
134	AUTO DIESEL FILTER	OWNER	VERIFY	D.A.	AS REQUIRED

ELECTRICAL EQUIPMENT

TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
201	NUMBER CURRENTLY NOT USED	-	-	-	-
202	NUMBER CURRENTLY NOT USED	-	-	-	-
203	NUMBER CURRENTLY NOT USED	-	-	-	-
204	NUMBER CURRENTLY NOT USED	-	-	-	-
205	F.E. PETRO 2/4HP VFC PUMP CONTROL BOX	OWNER	MODEL FE-MAG-VFC	S.B.	5
206	NUMBER CURRENTLY NOT USED	-	-	-	-
207	ISLAND EMERGENCY SHUTDOWN SWITCH - PILLA ELECTRICAL PRODUCTS INC.- SURFACE MOUNT NEMA	CONTRACTOR	FS120MO GRYCLM	D.A.	-
208	E-STOP BUTTON (INSTALLED AT RETAIL CASHIER)	CONTRACTOR	20C744	S.B.	-
209	NUMBER CURRENTLY NOT USED	-	-	-	-
210	WEATHER-PROOF JUNCTION BOX (INTRINSICALLY SAFE WIRING COMPONENTS)	CONTRACTOR	-	D.A./D.S./U.S./T.S.	-
211	EXPLOSION PROOF GUP JUNCTION BOX	CONTRACTOR	GUP215	-	-
212	SEAL FITTING (SIZE TO SUIT)	CONTRACTOR	-	-	-
213	UNION (SIZE TO SUIT)	CONTRACTOR	-	-	-
214	VEEDER-ROOT: TLS 450 CONSOLE W/PRINTER INCLUDES:	OWNER	VEEDER-ROOT: VR-860091-302	S.B.	1
	USB/ETHERNET DUAL MODULE		VR-332913-001		
	RS-232 DUAL INTERFACE MODULE		VR-332868-001		
	UNIVERSAL SENSOR/PROBE MODULE		VR-332812-001		
	UNIVERSAL INPUT/OUTPUT MODULE		VR-332813-001		
	RISK MGMT LEAK DETECT - PLLD		VR-332412-008		
	INTELLIGENT PUMP CONTROL SOFTWARE		VR-332412-028		1
215	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (8')	OWNER	VR-846347-107	T.T.E.	-
216	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (10')	OWNER	VR-846347-109	T.T.E.	5
217	VEEDER-ROOT DUAL-POINT SINGLE FLOAT HYDROSTATIC SENSOR	OWNER	VR-794380-303	T.T.E.	5
218	VEEDER-ROOT SUMP SENSOR (W/12' CABLE)	OWNER	VR-794380-208	D.S./U.S./T.S.	15
	VEEDER-ROOT SUMP SENSOR (W/30' CABLE)		VR-794380-209		-
219	VEEDER-ROOT 4 INCH DIESEL FLOAT KIT W/10' CABLE	OWNER	VR-846400-011	T.T.E.	1
	VEEDER-ROOT PHASE SEP GAS FLOAT KIT W/10' CABLE		VR-886100-010		4
220	4" ATG CAP & ADAPTER	OWNER	305 XPA-1100AK EVR	T.T.E.	5
221	VEEDER-ROOT ELECTRONIC LINE LEAK DETECTOR	OWNER	VR-859080-001	U.S.	4
222	GILBARCO UNIVERSAL DISTRIBUTION BOX	OWNER	-	S.B.	1
223	ESCO INTERCOM 20 STATION COMM CONTROLLER MODEL	OWNER	ES-441-0064	S.B.	3
	ESCO 4 STATION I/O CARD		ES-441-0063		
	ESCO COMBO STATION SELECTOR		ES-441-0061		
	3M CEILING SPEAKER,		SDT2W		3
	CEILING T-BAR SUPPORT,		81-8R		3
	ANS AMPLIFIER (10 WATT),		BG-220		1
224	2" INTERSTITIAL SENSOR CAP & ADAPTOR	OWNER	VR-312020-928	T.T.E.	-
225	NUMBER CURRENTLY NOT USED	-	-	-	-
227	PIPE TRACING TAPE - HANSON CO	CONTRACTOR	16632	-	AS REQUIRED
230	ALTERNATIVE FLUIDS MAG PLUS PROBE - 10' TANK	OWNER	VR-846347-409	-	-
231	VEEDER-ROOT E85 FLOAT KIT-10' CABLE	OWNER	VR-846400-014	-	-
232	WINDY CITY - 18 AWG 2-CONDUCTOR SHIELDED CABLE 2,500' REELS	OWNER	FEP-18-02-0A5-2500	-	3 2,500 REELS
233	AIRTECH HOWDEN (CANOPY) 3/4 HP SINGLE PHASE, 60Hz, 115/208-230V 200CFM. 3450 RPM WITH WEATHER COVER, VIBRATION ISOLATOR MOUNT AND SLIDE GATE DAMPENER. INTAKE SCREEN	OWNER	Verify - SIDE DRAFT	-	1
234	AIRTECH HOWDEN (GROUND) 3/4 HP SINGLE PHASE, 60Hz, 115/208-230V 200CFM. 3450 RPM WITH WEATHER COVER, VIBRATION ISOLATOR MOUNT AND SLIDE GATE DAMPENER. INTAKE SCREEN	OWNER	Verify - DOWN DRAFT	-	-
235	FERNCO 4" BOOT FOR CANOPY FAN	OWNER	1051-44	-	1
236	GALVANIZED SCREEN FAN ENCLOSURE	OWNER	E822810	-	1
237	GROUND MOUNTED FAN CAGE	OWNER	E81T542	-	-
238	MULITPORT SENSOR HOLDER	OWNER	AH-650450	-	-
239	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (11')	OWNER	VR-846347-111	T.T.E.	-
240	VEEDER-ROOT MAGNETOSTRICTIVE TANK PROBE (12')	OWNER	VR-846347-112	T.T.E.	-
241	KIT,ENC SIDE CONDUIT ENTRY HARDWARE	OWNER	MOT838K001	D.S./D.A.	24
242	WINDY CITY - 14 AWG TWISTED PAIR SHIELDED CABLE	OWNER	032051-1012QT-2500	D.S.	1 SPOOL

SUBMERSIBLE PUMP OPTIONS

VERTICAL 6-8 LAYOUTS	DOUBLE STACKED 9-12 LAYOUTS
4HP PUMP FOR UNLEADED 1 4HP PUMP FOR UNLEADED 2 4HP PUMP FOR PREMIUM (IF <500' OF PIPING) 4HP PUMP FOR DIESEL (IF <500' OF PIPING) 4HP PUMP FOR E0/FLEX FUEL (IF <500' OF PIPING)	4HP PUMP FOR UNLEADED 1 4HP PUMP FOR UNLEADED 2 4HP PUMP FOR PREMIUM (IF <500' OF PIPING) 4HP PUMP FOR DIESEL (IF <500' OF PIPING) 4HP PUMP FOR E0/FLEX FUEL (IF <500' OF PIPING)
VERTICAL 9-12 LAYOUT	**DOUBLE STACKED 14 LAYOUTS**
4HP PUMP FOR UNLEADED 1 4HP PUMP FOR UNLEADED 2 4HP PUMP FOR PREMIUM (IF <500' OF PIPING) 4HP PUMP FOR DIESEL (IF <500' OF PIPING) 4HP PUMP FOR E0/FLEX FUEL (IF <500' OF PIPING)	(2)4HP PUMP IN TANDEM FOR UNLEADED 1 (2)4HP PUMP IN TANDEM FOR UNLEADED 2 4HP PUMP FOR PREMIUM (IF <500' OF PIPING) 4HP PUMP FOR DIESEL (IF <500' OF PIPING) 4HP PUMP FOR E0/FLEX FUEL (IF <500' OF PIPING)
DOUBLE STACKED 6-8 LAYOUTS	
4HP PUMP FOR UNLEADED 1 4HP PUMP FOR UNLEADED 2 4HP PUMP FOR PREMIUM (IF <500' OF PIPING) 4HP PUMP FOR DIESEL (IF <500' OF PIPING) 4HP PUMP FOR E0/FLEX FUEL (IF <500' OF PIPING)	

NOTE: ALL EQUIPMENT INSTALLED BY CONTRACTOR UNLESS SPECIFIED OTHERWISE BY MANUFACTURER OR FIELD CONSTRUCTION MANAGER.

NOTE: THIS MATERIALS EQUIPMENT SCHEDULE IS NOT A COMPLETE LIST OF MATERIALS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MISCELLANEOUS EQUIPMENT, FITTINGS, MATERIALS AND DEVICES NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR TO COORDINATE MATERIALS DELIVERY SCHEDULE AND VERIFY EQUIPMENT COUNTS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL EQUIPMENT ARRIVES AT SITE IN UNDAMAGED CONDITION.

CONTRACTOR AND/OR SUBCONTRACTOR RESPONSIBLE TO CONFIRM ACTUAL QUANTITIES OF MATERIALS/EQUIPMENT NECESSARY FOR COMPLETE AND OPERABLE SYSTEM.

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER PE-2013011214
PROFESSIONAL ENGINEER
11/25/2024

SIGNATURE DATE:

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REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
XF600

A1
BILL OF MATERIALS
N.T.S.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit Missouri
03/10/2025

MECHANICAL EQUIPMENT

TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
301	GILBARCO ENCORE 7000S DISPENSERS, 3+1+1 BLENDER, MODEL GASOLINE DISPENSER - DIESEL & EO	OWNER	E838171	D.S.	8
	GILBARCO ENCORE 7000S DISPENSERS, 3+1 BLENDER, MODEL NLI GASOLINE DISPENSER - DIESEL		NLI E696984		-
	(OMA) & (IWA) 4 PRODUCT (2 HOSES) GILBARCO ENCORE E7000S DISPENSERS, MODEL NGO GASOLINE DISPENSER		NGI E697004		-
	GILBARCO ENCORE 7000S DISPENSERS, 3+1 BLENDER, MODEL NLI GASOLINE DISPENSER - EO		NLI E677191		-
	GILBARCO ENCORE 7000S DISPENSERS, 3+1 BLENDER, MODEL NLI GASOLINE DISPENSER - (DALLAS, TARRENT, COLIN, DENTON COUNTIES, COLORADO AND ILLINOIS-E15)		NLI E856118		0
	(OMA) & (IWA) 4 PRODUCT (2 HOSES) GILBARCO ENCORE E7000S DISPENSERS, MODEL NGO GASOLINE DISPENSER (E15-E25)		NGI E847452		-
302	FE PETRO SIPHON CHECK VALVE KIT	OWNER	400137937	U.S.	1
303	FE PETRO 4 HP, VARIABLE SPEED SUBMERGED PUMP - ONE SIPHON SIPHON CARTRIDGE PER PUMP, 24" STAINLESS STEEL RISER. 22 PSI "TYPE R" CHECK VALVE. (UNLEADED, PREMIUM EO, E15, DIESEL)	OWNER	1STMVS4-VL2	U.S.	5
304	FE PETRO 65 PSI CHECK VALVE	OWNER	FE-402459931	U.S.	1
305	PETROLEUM CONTAINMENT 46 IN SQUARE CONTAINMENT TANK SUMP	OWNER	TSM464658-3CO-QT	U.A.	5
306	PETROLEUM CONTAINMENT 46" SQUARE CONTAINMENT TRANSITION SUMP	OWNER	TS464656-3BO-QT	T.S.	-
307	NOT USED	-	-	-	-
308	48" ROUND FIBERGLASS SUMP COLLAR FROM TANK MANUFACTURER	OWNER	-	U.S.	-
309	FIBERLITE 40" DIAMETER COMPOSITE COVER W/SKIRT	OWNER	FL100	U.S.	7
310	EXTRACTOR W/CAGE - OPW (4X4X3X2 CROSS)	OWNER	233-4432	T.T.E.	5
311	NON STAGE II AREA 3/4" HOSE SWL	OWNER	241TPS-0241	D.A.	48
	NON STAGE II AREA 3/4" HOSE SWL (E15)		241TPS-75RF		0
312	HOSEXPRESS 1/4" BRASS BALL VALVE	CONTRACTOR	BBV25	U.A.	-
313	NOT USED	-	-	-	-
314	OPW DOUBLE WALL EDGE SPILL CONTAINER W/DRAIN VALVE	OWNER	1SC-3112D	T.T.E.	5
315	OPW FACE SEAL ADAPTER	OWNER	FSA-400-S	T.T.E.	5
316	OPW JACK SCREW (DROP TUBE LOCK)	OWNER	61JSK-44CB	T.T.E.	5
317	OPW (4") SWIVEL ADAPTER EVR (GAS)	OWNER	61SALP-1020-EVR	T.T.E.	5
318	OPW ADAPTER 4" TOP SEAL CAP	OWNER	OPW 634LPC-0400	T.T.E.	5
319	FILL TAG ID MARKER-UNLEADED	OWNER	US-FPI-125U	T.T.E.	2
320	FILL TAG ID MARKER-PREMIUM	OWNER	US-FPI-125P	T.T.E.	1
321	FILL TAG ID MARKER- DIESEL	OWNER	US-FPI-125D	T.T.E.	1
322	OPW SINGLE WALL EDGE SPILL BUCKET W/ PLUG (STANDARD)	OWNER	1SC-3101P	T.T.E.	5
323	OPW STAGE I VAPOR RECOVER CAP. L.P	OWNER	1711LPC-0300	T.T.E.	4
324	VAPOR TAG ID MARKER-ORANGE,	OWNER	US-FPI-22	T.T.E.	5
325	FIBRELITE 18' FLAT SEALED COMPOSITE COVER, FRAME & SKIRT	OWNER	FL180	T.T.E.	10
326	BRAVO MODULAR PASS-THROUGH-APT ENCORE 3+1+1 DISPENSER SUMP W/ FOUR SHEAR VALVES AND RISERS ASSEMBLY	OWNER	B1380-S33-MA-44-QT-G1	D.S.	6
			(ADA) B1380A-S33-MA-44-QT-G1		0
	BRAVO MODULAR TERMINATION-APT ENCORE 3+1+1 DISPENSER SUMP W/ FOUR SHEAR VALVES AND RISERS ASSEMBLY	OWNER	B1380-S33-MA-4-QT-G1		2
			(ADA) B1380A-S33-MA-4-QT-G1		0
327	BRAVO SHEAR VALVE STABILIZER BARS (1 PER PRODUCT)	OWNER	BK-1000-ENC	D.S.	-
			BK-8000-QTADA (ADA)		-
328	OPW DOUBLE POPPET SHEAR VALVE PER PRODUCT	OWNER	1OP-0152	D.S.	-
329	OPW DOUBLE POPPET SHEAR VALVE PER PRODUCT (EO/E15/E85)	OWNER	1OP-0152E85	D.S.	-
330	PRODUCT NOZZLE: NON STAGE II AREA OPW GASOLINE NOZZLE REGULAR	OWNER	11BP-8400	D.A.	16
	PRODUCT NOZZLE:NON STAGE II AREA OPW DIESEL NOZZLE REGULAR		11B-8100		16
	PRODUCT NOZZLE:NON STAGE II AREA OPW EO NOZZLE REGULAR		11BP-8300		16
	PRODUCT NOZZLE:NON STAGE II AREA OPW E15 NOZZLE REGULAR		11BP-0500-E25		-
	(OMA) & (IWA) HUSKY GASOLINE NOZZLE REGULAR		159559-04-04		-
	(OMA) & (IWA) HUSKY DIESEL NOZZLE REGULAR		159561-04-04		-

MECHANICAL EQUIPMENT

TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
331	NON STAGE II AREA (STANDARD) CATLOW RECONNECTABLE BREAKAWAY VALVE	OWNER	GW-GTM75	D.A.	48
	NON STAGE II AREA (E15) HUSKY RECONNECTABLE BREAKAWAY VALVE		006360		0
332	NON STAGE II AREA CONTINENTAL FLEXSTEEL FUTURA 8' LONG WHIP HOSE	OWNER	20021965	D.A.	48
	3/4" X 8" CONTINENTAL ETHANALL WHIP HOSE (E15)		20553765		0
333	NON STAGE II AREA CONTINENTAL FLEXSTEEL FUTURA 9' LONG CURB HOSE	OWNER	20021938	D.A.	48
	3/4" X 9' CONTINENTAL ETHANALL CURB HOSE (E15)		20553647		0
334	2" PRESSURE VACUUM VENT (TYPICAL)	OWNER	OPW 623V-2203	U.A.	2
	(STL&PHX) 2" PRES/VAC VENT		OPW 523V-2203		-
	(ATL&TUC) 2" PRES/VAC VENT		OPW 723V		-
	P/V VENT 3" TO 2" ADAPTOR		OPW 523A-1003		1
335	"OPEN CAP" (2") VENT CAP FOR DIESEL & AIR VENTILATION	OWNER	MB-354-0200AV	U.A.	1
336	PCI 60" TRANSITION SUMP	OWNER	TS515756-3BO-QT	T.S.	2
337	3/4" CONDUIT ENTRY (BRAVO)	OWNER	F-07R-F	-	18
338	AMERON ADHESIVE KIT	CONTRACTOR	80210101	D.A./U.A.	-
339	NOT CURRENTLY USED	-	-	-	-
340	3" DIA SINGLE WALL FRP ENTRY FITTING (BRAVO)	OWNER	F-30-FF	D.A./U.A.	10
341	4" FRP RISER (RED THREAD)	OWNER	98C02313	D.S./U.S.	20
342	NO CURRENTLY USED	-	-	-	-
343	OMEGAFLEX AT STP	OWNER	UGF-FC20MSP90SFAB VSS-012	T.T.E.	5
344	OVERFILL PREVENTION VALVE DROP TUBES (10' TANK) - E85 COMP	OWNER	FRANKLIN DEFENDER 708692922	T.T.E.	5
345	NUMBER CURRENTLY NOT USED	-	-	-	-
346	NUMBER CURRENTLY NOT USED	-	-	-	-
347	OPW INLET TUBE (FOR USE W/FRANKLIN DEFENDER OVERFILL DEVICE & DROP TUBE)	OWNER	71SO-INLET	T.T.E.	5
348	4" UPDRAFT VENT CAP (FOR SUMP FAN) MORRISON BROS. CO	OWNER	MR-354-0400-AV	U.A.	1
349	BRAVO VST TEST TUBES FOR TANK & T-SUMPS	OWNER	BR-VST-TS	T.S.	14
350	AMERON DUALOY 2" FRP 3000L SINGLE WALL FRP, PRIMARY PRODUCT, VAPOR AND VENT LINES	OWNER	AM-P-2-XX	D.A./U.A.	165 FT 6 UNITS
351	AMERON DUALOY 3" FRP 3000L SINGLE WALL FRP, SECONDARY CONTAINMENT AND MAIN VAPOR MANIFOLD LINES	OWNER	AM-P-3-XX	D.A./U.A.	180 FT 6 UNITS
352	2" FRP BELL X MALE ADAPTOR	CONTRACTOR	012020-191-4	D.S./U.S./T.S.	12
353	2" FRP SPIGOT X MALE ADAPTOR	CONTRACTOR	-	D.S./U.S./T.S.	-
354	2" DIA SINGLE WALL FRP 45 ELBOW	CONTRACTOR	012020-310-4	D.S./U.S./T.S.	6
355	2" DIA SINGLE WALL FRP 90 ELBOW	CONTRACTOR	012020-360-4	D.S./U.S./T.S.	
356	2" DIA SINGLE WALL FRP TEE	CONTRACTOR	012020-410-4	D.S./U.S./T.S.	-
357	2" DIA SINGLE WALL FRP COUPLING	CONTRACTOR	012020-101-8	D.S./U.S./T.S.	3
358	4" X 15' DROP TUBE (STICK PORT)	OWNER	EM A20-005	D.S./U.S./T.S.	-
359	4" AMERON SINGLE WALL PIPING	OWNER	DUALOY 3000/L	D.S./U.S./T.S.	145 FT 5 UNITS
360	4" DIA SINGLE WALL FRP ENTRY FITTING (BRAVO)	OWNER	F-40-FF	D.S.	10
361	NUMBER CURRENTLY NOT USED	-	-	-	-
362	NUMBER CURRENTLY NOT USED	-	-	-	-
363	2" DIA, STEEL 90° ELBOW	CONTRACTOR	-	D.S./U.S./T.S.	-
364	2" DIA, STEEL TEE	CONTRACTOR	-	D.S./U.S./T.S.	-
365	JOMAR 2" SS FULL PORT BALL VALVE	OWNER	T100-468	U.S.	18
366	NUMBER CURRENTLY NOT USED	-	-	-	-
367	3" FRP BELL X MALE ADAPTOR	CONTRACTOR	012030-191-4	D.A.	4
368	3" FRP SPIGOT X MALE ADAPTOR	CONTRACTOR	-	D.A.	-
369	3" DIA SINGLE WALL FRP 45 ELBOW	CONTRACTOR	012030-310-4	D.A./U.A.	-
370	3" DIA SINGLE WALL FRP 90 ELBOW	CONTRACTOR	012030-360-4	D.A./U.A.	6
371	3" DIA SINGLE WALL FRP TEE	CONTRACTOR	012030-410-4	D.A./U.A.	2
372	3" DIA SINGLE WALL FRP COUPLING	CONTRACTOR	012030-101-8	D.A./U.A.	2
374	2" DIA SINGLE WALL FRP ENTRY FITTING (BRAVO)	OWNER	F-20-FF	D.A./U.A.	-
376	3" DIA BLACK IRON COUPLING	CONTRACTOR	AS REQ'D	U.A.	-
377	3" DIA BLACK IRON PIPE	CONTRACTOR	AS REQ'D	U.A.	-
378	4" DIA, BLACK IRON 90° ELBOW	CONTRACTOR	AS REQ'D	U.A.	-
379	3" DIA, BLACK IRON 90° ELBOW	CONTRACTOR	AS REQ'D	U.A.	-
380	4" DIA, BLACK IRON TEE	CONTRACTOR	AS REQ'D	U.A.	-
381	3" TO 2" FRP TEST BOOT W/AIR STEM	OWNER	EP-RTR-3020	D.S./U.S./T.S.	10
382	4" FRP BELL X MALE ADAPTOR	CONTRACTOR	012040-191-4	D.A./U.A.	2
383	4" DIA SINGLE WALL FRP 45 ELBOW	CONTRACTOR	012040-310-4	D.A./U.A.	6
384	4" DIA SINGLE WALL FRP 90 ELBOW	CONTRACTOR	012040-360-4	D.A./U.A.	5
385	4" DIA SINGLE WALL FRP TEE	CONTRACTOR	012040-101-4	D.A./U.A.	-
386	4" DIA SINGLE WALL FRP COUPLING	CONTRACTOR	012030-101-8	D.S./U.S./T.S.	2
387	OMEGAFLEX-FLEX CONNECTOR	OWNER	UGF-MS-FM-FC0200-024	U.A.	2
388	OPW VAPOR SWIVEL ADAPTOR	OWNER	61VSA-1020-EVR	U.A.	4
389	TEST TUBE - JUMPER AT OPW	OWNER	OPW TGT-2509	D.S./U.S./T.S.	-
	TEST TUBE - TERMINATION AT OPW		OPW TTT-2536		-
	TEST TUBE - TEE STYLE AT APT		DV-XOVER-6FT		70
390	PRODUCT MARKER (OPW)	OWNER	106DL-0095-DIESEL	U.A.	2
			106P-0150-PREMIUM		2
			106N-1100-UNLEAD 1		2
			106N-2200-UNLEAD 2		2
			106N-3300-UNLEAD 3		-
			106X-0200-E15		-

MECHANICAL EQUIPMENT

TAG	EQUIPMENT DESCRIPTION	PROVIDED	MFG MODEL #	LOCATION	QUANTITY
391	OPW 4" FILL CAP DIESEL	OWNER	634LPC-0400D	U.A.	1
392	PRODUCT MARKER - "EO" - "PREMIUM EO"	OWNER	EW-A0998-EO EW-A0998-PEO	U.A.	2
393	FILL TAG ID MARKER - "EO" - " PREMIUM EO"	OWNER	US-56-5-CU US-56-5-CPU	T.T.E.	1
394	NUMBER CURRENTLY NOT USED	-	-	-	-
395	NUMBER CURRENTLY NOT USED	-	-	-	-
396	NUMBER CURRENTLY NOT USED	-	-	-	-
397	NUMBER CURRENTLY NOT USED	-	-	-	-
398	NUMBER CURRENTLY NOT USED	-	-	-	-
399	NUMBER CURRENTLY NOT USED	-	-	-	-
400	NUMBER CURRENTLY NOT USED	-	-	-	-
401	OMEGAFLEX-FLEX CONNECTOR	OWNER	UGF-PM-PF-FC0300-024	U.A.	1
402	NUMBER CURRENTLY NOT USED	-	-	-	-
403	NUMBER CURRENTLY NOT USED	-	-	-	-
404	OMEGAFLEX-FLEX CONNECTOR	OWNER	UGF-PM-PF-FC0400-018	U.A.	2
405	BRAVO TRANSITION SUMP SENSOR HOLDER	OWNER	SH-TRS	D.S./U.S./T.S.	2
406	BRAVO TANK SUMP SENSOR HOLDER	OWNER	SH-TS	D.S./U.S./T.S.	5
407	BRAVO UDC SUMP SENSOR HOLDER	OWNER	SH-UDC	D.S./U.S./T.S.	8
408	14 OZ SPRAY CAN- LITHIUM GREASE	OWNER	GA-W816	T.T.E.	7
409	FIBERLITE LID LIFTER (LEAVE IN STORE)	OWNER	FL7A	T.T.E.	1
410	NUMBER CURRENTLY NOT USED	OWNER	-	T.T.E.	-
411	JACK SCREW KIT - E85	OWNER	OPW-71JSK-44MA	U.A./T.T.E.	-
412	PROBE CAP AND ADAPTOR-E85	OWNER	305 XPA-1100AK EVR	U.A./T.T.E.	-
413	CONCRETE ID MARKER - E85	OWNER	EW-A0998-039	U.A./T.T.E.	-
414	OPW E85 COMPATIBLE PRESSURE SENSITIVE NOZZLE - YELLOW GUARD	OWNER	OPW-11BP-0992-E85-UL	D.S./U.S.	-
415	3/4" E85 COMPATIBLE HOSE SWIVEL	OWNER	241TPS-04921	D.S./U.S.	-
416	3/4" X 9' CONTINENTAL ETHANALL CURB HOSE (E85)	OWNER	20553647	D.S.	-
417	3/4" X 8" CONTINENTAL ETHANALL WHIP HOSE (E85)	OWNER	20553765	D.S.	-
418	3/4" E85 COMPATIBLE BREAKAWAY	OWNER	GW-GTM75-85	D.S./U.S.	-
419	2" X 12" MALE EZ FLEX W 90 & 2" BALL VALVE ALL STAINLESS STEEL	OWNER	FLX-2X12X290-BV-SS	T.S.	-
420	4"X3" BLACK IRON REDUCER HEX FITTING	CONTRACTOR	-	-	-
421	NUMBER CURRENTLY NOT USED	-	-	-	-
422	FILL PIPE ID TAG - E85	OWNER	US-FPI-E15	D.S./U.S.	-
423	SWIVEL FILL ADAPTOR - E85	OWNER	OPW-61SALP-MA	D.S./U.S.	-
424	SWIVEL VAPOR ADAPTOR - E85	OWNER	OPW-61VSA-MA	D.S./U.S.	-
425	FILL CAP	OWNER	OPW-634LPC-EVR	D.S./U.S.	-
426	VAPOR CAP - E85	OWNER	OPW-1711LPC-EVR	D.S./U.S.	-
427	NUMBER CURRENTLY NOT USED	-	-	-	-
430	EZ FIT X 2" FEMALE	OWNER	EZX20HFPL	T.S.	44
431	EZ FIT X 2" FEMALE GLUE PIPE FOR FRP	OWNER	EZX20F6PL	T.S.	2
432	EZ FIT CLAMP	OWNER	EZCLAMP	T.S.	98
	EZ FIT GASKET	OWNER	407443002	T.S.	98
433	EZ FIT X 2" MALE	OWNER	EZX20HMPL	T.S.	34
434	NORMS RINGS	OWNER	NR-15000-UNL	T.T.E	
	AT FILL LOCATIONS (TCNK & RTC ONLY)		BLK-15000-EO		
			CRR-15000-PREMIUM		
			GRN-15000-DIESEL		
435	APT 1-3/4" XP SECONDARY CONTAINED DOUBLE WALL PIPING	OWNER	XP-175-SC-250	T.S.	230 FT 1/250' UNITS
			XP-175-SC-CR15-033 (33' STICKS)		26
436	APT 4" XP ACCESS PIPE	OWNER	DUCT-400-250	U.A./D.A.	1088 FT 5/250' UNITS
437	APT DUCTED ENTRY FITTING FOR 1-3/4"	OWNER	RDEB-175-XP	U.A./T.S./D.S.	28
438	APT XP SECONDARY TEST BOOT FITTING WITH TEST PORT	OWNER	STB-175	U.A./T.S./D.S.	84
439	1-3/4" XP PIPE QUICK RELEASE FITTING FOR 2" EZ CLAMP	OWNER	QRS-XP-175-200	U.A./T.S.	84
440	NUMBER CURRENTLY NOT USED	-	-	-	-
441	NUMBER CURRENTLY NOT USED	-	-	-	-
442	EZFIT 2" TEE	OWNER	EZ20XEZ20TEEFF	T.S.	19
443	EZFIT 2" 90°	OWNER	EZ20XEZ2090	T.S.	13
445	OPW 2" DOUBLE WALL PRIMARY PIPE	OWNER	C20A-XXX (REEL)	U.A./D.A.	0 FT
			C20-1233 (33' STICKS)	U.A/D.A.	0
446	OPW 4" DUAL LAYER ACCESS PIPE	OWNER	AXP-40-XXX	U.A./D.A.	0 FT 0/250' UNITS
447	OPW RIGID DIRECT BURY ENTRY FITTING FOR 2" FLEXWORKS	OWNER	REF-4020	U.A./D.A.	0
448	OPW 2" DOUBLE WALL SWIVEL PIPE COUPLING, FLAT GASKET	OWNER	DPC-2200A	U.A./D.A.	0
449	OPW 2" ADAPTOR, 2" NPSH TO 2" MALE NPT	OWNER	SMA-2020	U.A./D.A.	0
450	OPW 2" ADAPTOR, 2" NPSH TO 2" MALE NPSH	OWNER	SCC-2020	U.A./D.A.	-
451	NUMBER CURRENTLY NOT USED	-	-	-	-
452	2" BLACK IRON TEE	CONTRACTOR	-	U.A./D.A.	
453	2" BLACK IRON ELBOW	CONTRACTOR	-	U.A./D.A.	-
454	2" BLACK IRON UNION	CONTRACTOR	-	U.A./D.A.	-
455	2" BLACK IRON NIPPLE (FIELD DETERMINE LENGTH REQUIRED)	CONTRACTOR	-	U.A./D.A.	-
456	OPW BALL FLOAT VENT VALVE. 3" NPT 3" STAINLESS STEEL FLOAT	OWNER	53VML-3050	U.A./D.A.	-
457	HYDRX FUEL CONDITIONER ASSEMBLY	OWNER	849587	T.S.	-
458	OPW 2" ELBOW REDUCERM 2" MALE NPSH X 2" FEMALE NPT	OWNER	SEF-2020	U.A./D.A.	0
459	OPW 2" TEE, 2" MALE NPSH X 2" MALE NPSH X 2" FEMALE NPT	OWNER	STF-2020	U.A./D.A.	0

A1 | BILL OF MATERIALS
N.T.S.

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER PE-2013011214
PROFESSIONAL ENGINEER
11/20/2024
SIGNATURE DATE:

CORE STATES GROUP
213 SE 34th Street
Bentonville, AR 72712
479.986.4400
core-states.com

QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

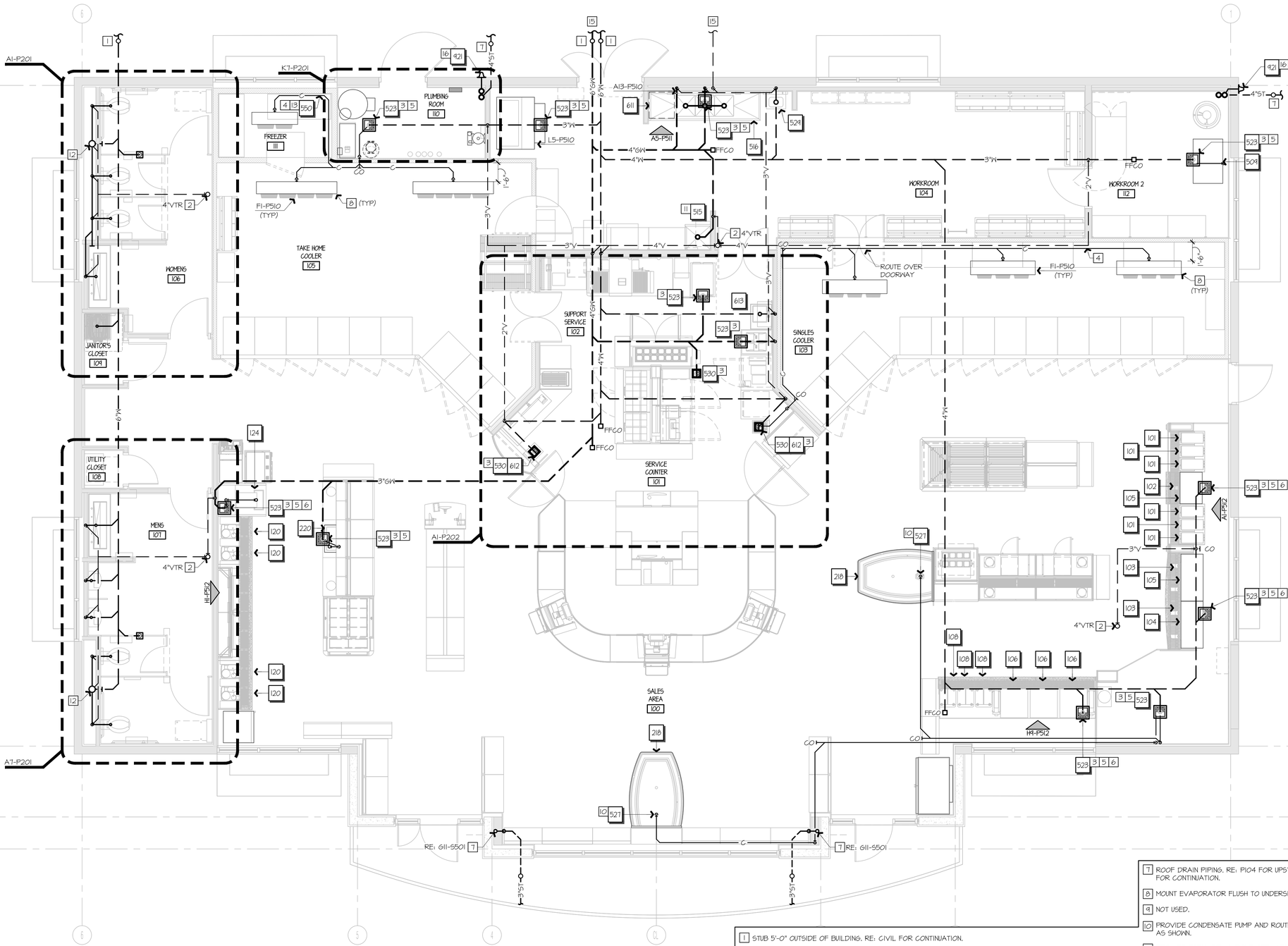
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
BILL OF MATERIALS CONTINUED

SHEET NUMBER:
XF601

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



REFER TO SHEET P600 FOR [*] EQUIPMENT TAGS

REFER TO SHEET P501 & P502 FOR PIPE SIZES.

1. STUB 5'-0" OUTSIDE OF BUILDING. RE: CIVIL FOR CONTINUATION.
2. PROVIDE VENT THRU ROOF IN THIS VICINITY. RE: L13-P511. OFFSET VENT IN PLENUM AS NECESSARY TO MAINTAIN OUTSIDE AIR INTAKE CLEARANCES.
3. INDIRECT DRAIN: DISCHARGE DRAINS INTO FLOOR RECEPTOR WITH AIR GAP OF TWICE THE PIPE DIAMETER. RE: L5-P511.
4. 1" CONDENSATE DRAINAGE PIPING PVC FOR COOLERS, COPPER FOR FREEZER. SECURE TO WALL WITH SPACING TYPE BRACKETS.
5. PROVIDE "GUARDIAN DRAIN LOCK" IN DRAIN BODY.
6. CONNECT DRAIN LINES FROM DRINK BARS AND FOUNTAIN WALLS TO HEADER PIPE. ROUTE HEADER DRAIN LINE TO FLOOR SINK. PROVIDE WITH AIR GAP FITTING PER LOCAL AUTHORITIES. RE: P512 & L5-P511.
7. ROOF DRAIN PIPING. RE: P104 FOR UPSTREAM ROOF DRAINAGE. STUB 5'-0" OUTSIDE OF BUILDING. RE: CIVIL FOR CONTINUATION.
8. MOUNT EVAPORATOR FLUSH TO UNDERSIDE OF COOLER.
9. NOT USED.
10. PROVIDE CONDENSATE PUMP AND ROUTE CONDENSATE UP TO CEILING TO INDIRECT WASTE OVER FLOOR SINK AS SHOWN.
11. PROVIDE PERMADRAIN DOME STRAINER IN DRAIN BODY.
12. CONTRACTOR TO SCOPE AND RECORD SANITARY WASTE LINE FROM RESTROOM CLEANOUTS TO THE PUBLIC SEWER CONNECTION.
13. PROVIDE HEAT TRACE CABLE FOR ALL CONDENSATE DRAIN PIPING WITHIN FREEZER. PROVIDE 1" ARMAFLEX INSULATION OVER HEAT TRACING ON CONDENSATE LINE. SLOPE DRAIN PIPING 1/8" PER FT. TOWARD TERMINATION POINT. INSTALL HEAT TRACE LINE SIMILAR TO DETAIL FI-P510.
14. NOT USED.
15. ROUTE TO GREASE INTERCEPTOR. RE: P501 FOR COMPLETE SYSTEM. RE: CIVIL FOR EXACT LOCATION.
16. PROVIDE DOWNSPOUT NOZZLES 18" AFG TO THE CENTER.

A1	PLUMBING WASTE & VENT FLOOR PLAN	NORTH	A9	PLAN NOTES	
1/8" = 1'-0"					

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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QuikTrip No. 0183R

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	GJSE
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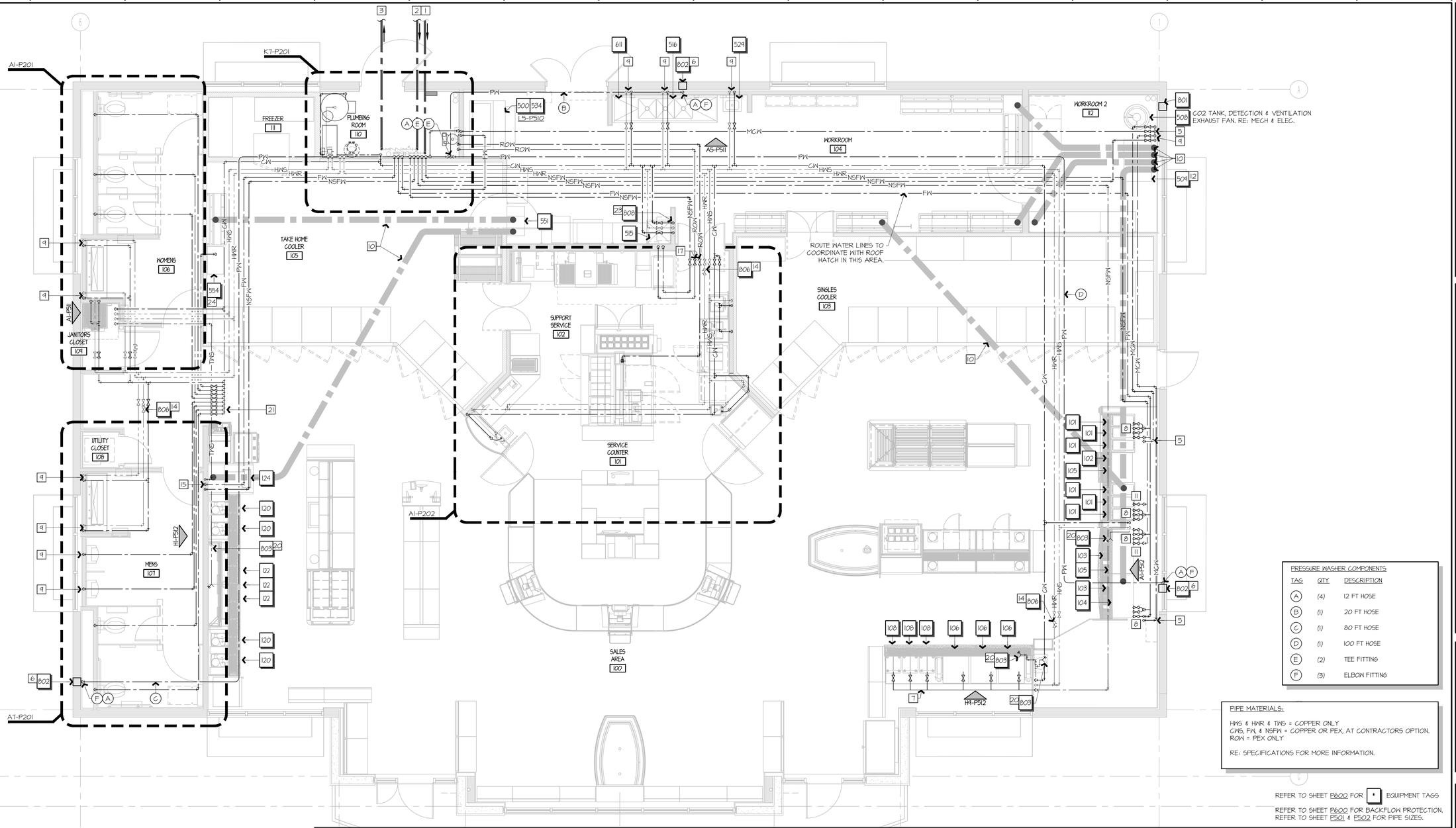
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
PLUMBING WASTE & VENT FLOOR PLAN

SHEET NUMBER:
P101



PRESSURE WASHER COMPONENTS		
TAG	QTY	DESCRIPTION
A	(4)	12 FT HOSE
B	(1)	20 FT HOSE
C	(1)	80 FT HOSE
D	(1)	100 FT HOSE
E	(2)	TEE FITTING
F	(3)	ELBOW FITTING

PIPE MATERIALS:

HWS & HWR & TWS = COPPER ONLY
CWS, FW, & NSFW = COPPER OR PEX, AT CONTRACTORS OPTION.
ROW = PEX ONLY

RE: SPECIFICATIONS FOR MORE INFORMATION.

REFER TO SHEET P600 FOR * EQUIPMENT TAGS

REFER TO SHEET P600 FOR BACKFLOW PROTECTION.
REFER TO SHEET P501 & P502 FOR PIPE SIZES.

WATER SERVICE: PLUMBING CONTRACTOR TO VERIFY EXISTING WATER PRESSURE PRIOR TO CONSTRUCTION. WATER PRESSURE AT BUILDING ENTRANCE PRIOR TO THE BACKFLOW PREVENTER DETERMINES ONE OF THE FOLLOWING REQUIREMENTS:

GREATER THAN 80 PSI: PROVIDE PRESSURE REGULATING VALVE (PRV) WITH STRAINER.
GREATER THAN 70 PSI: NO BOOSTER SYSTEM WILL BE NECESSARY.
LESS THAN 70 PSI: INSTALL WATER PRESSURE BOOSTER SYSTEM FOR ENTIRE BUILDING AS FOLLOWS:

BOOSTER PUMP IF REQUIRED, SHALL BE FACTORY PRESET TO 70-PSI. COORDINATE WITH QT REPRESENTATIVE FOR SPECIFIC INSTRUCTIONS ON CHOOSING AND PLACING EQUIPMENT.

AVAILABLE PRESSURE = 80 PSI, TOTAL GPM = 75
TOTAL LENGTH OF PIPING = 350 FT, STATIC LOSS = 5 PSI

LOSSES:		
RPZ-BFP	12 PSI	(AVAILABLE PRESSURE 80 - TOTAL LOSSES 36) = 44 PSI ALLOWED.
METER LOSS	4 PSI	(TOTAL LENGTH 350) = 12.6 PSI ALLOWABLE LOSS PER 100 FEET.
STATIC LOSS	5 PSI	
FIXTURE REQUIRES:	15 PSI	
TOTAL LOSSES	36 PSI	(IRRIGATION FLOW ESTIMATE: 35 GPM)

1. STUB OUT DOMESTIC COLD WATER 5'-0" OUTSIDE BUILDING. RE: CIVIL DRAWINGS FOR CONTINUATION. ROUTE UP INTO WORKROOM. RE: P503 FOR DETAIL.
2. STUB OUT IRRIGATION WATER SUPPLY (INCOMING) 5'-0" OUTSIDE BUILDING. RE: CIVIL DRAWINGS FOR CONTINUATION. ROUTE UP INTO BACKFLOW PREVENTER. RE: P503 FOR DETAIL.
3. STUB OUT IRRIGATION WATER (OUTGOING) 5'-0" OUTSIDE BUILDING. RE: CIVIL DRAWINGS FOR CONTINUATION. RE: P503 FOR DETAIL.
4. NOT USED.
5. CHILLED WATER LINE FROM MULTIPLEX MACHINE TO ICE MACHINES AND TEA FOUNTAIN MACHINE. CONNECT IN A BYPASS ARRANGEMENT WITH THE MAIN FILTERED WATER LINES TO ALLOW EITHER LINE TO SERVE ICE MAKERS. ROUTE WATER LINE ALONG WITH SODA LINE BUNDLE. RE:QT INSTALL DRAWINGS FOR MORE INFORMATION.
6. ROUTE HOSE FROM POWER WASH EQUIPMENT IN SUPPORT ROOM, FURNISHED BY QUIKTRIP, INSTALLED BY CONTRACTOR. ROUTE IN STRAIGHT LINES AS POSSIBLE WITH RADIUS ELBOWS AS NECESSARY. SEE QT REPRESENTATIVE FOR INSTALLATION INSTRUCTIONS.
7. ROUTE FILTERED WATER LINE UNDER COUNTERTOP AT HEIGHT AND SPACING AS REQUESTED BY QT REPRESENTATIVE. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS.
8. ROUTE FILTERED WATER LINE AS SHOWN ON PLANS. PROVIDE MANIFOLD WITH MULTIPLE VALVED CONNECTIONS FOR FEMALE THREADED OUTLETS. RE: PLUMBING ELEVATIONS. (QTY PER PLAN) INSTALL PRESSURE GAUGE WITH ISOLATION BALL-VALVE ON WATER MANIFOLD.
9. INSULATE BEHIND WATER PIPES IN EXTERIOR WALL.
10. ROUTE COFFEE/SODA LINE BUNDLE(S) ABOVE CEILING TO EQUIPMENT SERVED AS INDICATED, MAINTAINING A 2' MINIMUM BENDING RADIUS AND PROTECTING BUNDLE FROM DAMAGE AGAINST CONTACT WITH STRUCTURE OR OTHER ELEMENTS. COORDINATE WITH QT REPRESENTATIVE.
11. PROVIDE SEPARATE NON-SILOPHOS INHIBITOR FILTERED WATER LINE TO CRUSHED ICE DISPENSER. RE: A1-P503.
12. MULTIPLEX - ROUGH-IN WATER SUPPLY AT 84" AFF WITH BALL VALVE. PIPING FROM BALL VALVE SHOULD BE 3/4" FLEX TUBING. SET PRESSURE REGULATING VALVE TO 55 PSIG. PROVIDE FLEX TUBING WITH 10' EXTRA COIL FOR SERVICE/CLEANING. PROVIDE 10' EXTRA COIL FOR REMOTE CONDENSER PIPING. RE: P600 FOR BFP.
13. NOT USED.
14. PROVIDE BALANCE VALVE ON HWR LINE. PROVIDE BALL VALVES ON HWS/HWR LINES FOR BALANCE VALVE ISOLATION. MAINTAIN ACCESSIBILITY TO VALVES. RE: P502 FOR MORE INFORMATION.
15. PROVIDE VERTICAL WATER MANIFOLD FOR NSFW AND FW LINES SERVING COFFEE BAR EXPOSED ALONG WALL. ROUTE INDIVIDUAL WATER LINES BELOW COUNTERTOP HEIGHT TO EQUIPMENT. COORDINATE MANIFOLDS WITH ELECTRICAL DEVICES. LABEL MANIFOLDS AND EQUIPMENT SERVED FROM EACH SHUT OFF. RE: P512.
16. NOT USED.
17. PROVIDE LINE SIZE STAINLESS STEEL BALL VALVES TYP OF MC #95V-TSNLH FOR ROW LINES.
18. NOT USED.
19. NOT USED.
20. INSTALL HOSE BIB INSIDE BASE CABINET FOR USE WITH OWNER-FURNISHED COILED HOSE AND SPRAYER. PROVIDE HOT AND COLD WATER SUPPLIES TO POINT OF USE MIXING VALVE. RE: P512 AND P600 FOR MORE INFORMATION.
21. PROVIDE RESTROOM VALVE MANIFOLD ABOVE ACCESSIBLE CEILING. PROVIDE SHUT OFF VALVES FOR EACH FIXTURE. MAINTAIN ACCESSIBILITY TO MANIFOLD. COORDINATE WITH DUCTWORK ABOVE CEILING IN VICINITY. RE: M101.
22. NOT USED.
23. PROVIDE LINE FOR CHEMICAL DISPENSING SYSTEM. ROUTE FLEXIBLE TUBING FROM WALL FAUCET TO CHEMICAL FEED SYSTEM.
24. PROVIDE PVC SLEEVE FOR WATER LINE PENETRATION THROUGH COOLER. SEAL WITH EXPANDING FOAM. TRANSITION TO 3/8" TUBING BEFORE COOLER PENETRATION.

A1 PLUMBING WATER FLOOR PLAN
1/4" = 1'-0"

NORTH

A5 PLAN NOTES

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

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SHEET TITLE:
PLUMBING WATER FLOOR PLAN

SHEET NUMBER:
P102

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Development Services Department
Lee's Summit, Missouri
03/10/2025

FREEZER 111
PLUMBING ROOM 110
DOMESTIC WATER ENTRY
IRRIG IN
IRRIG OUT
WORKROOM 104
WORKROOM 2 112
TAKE HOME COOLER 105
SINGLES COOLER 108
SUPPORT SERVICE 102
SERVICE COUNTER 101
SALES AREA 100
WOMENS 106
JANITORS CLOSET 109
UTILITY CLOSET 108
MENS 107
4"WC
6"W
3" FD
1-1/4" LAV
2"W
2"UR
3"FS
4"FS
2"V
3"V
2"HS
FFCO
3"ST
4"ST
2"DW

REFER TO SHEET P501 & P502 FOR PIPE SIZES.

A1
3/4" = 1'-0"
PLUMBING SLAB ROUGH-IN FLOOR PLAN
NORTH

STATE OF MISSOURI
NEIL P. BARTLEY
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SHEET TITLE:
PLUMBING SLAB ROUGH-IN FLOOR PLAN

SHEET NUMBER:
P103

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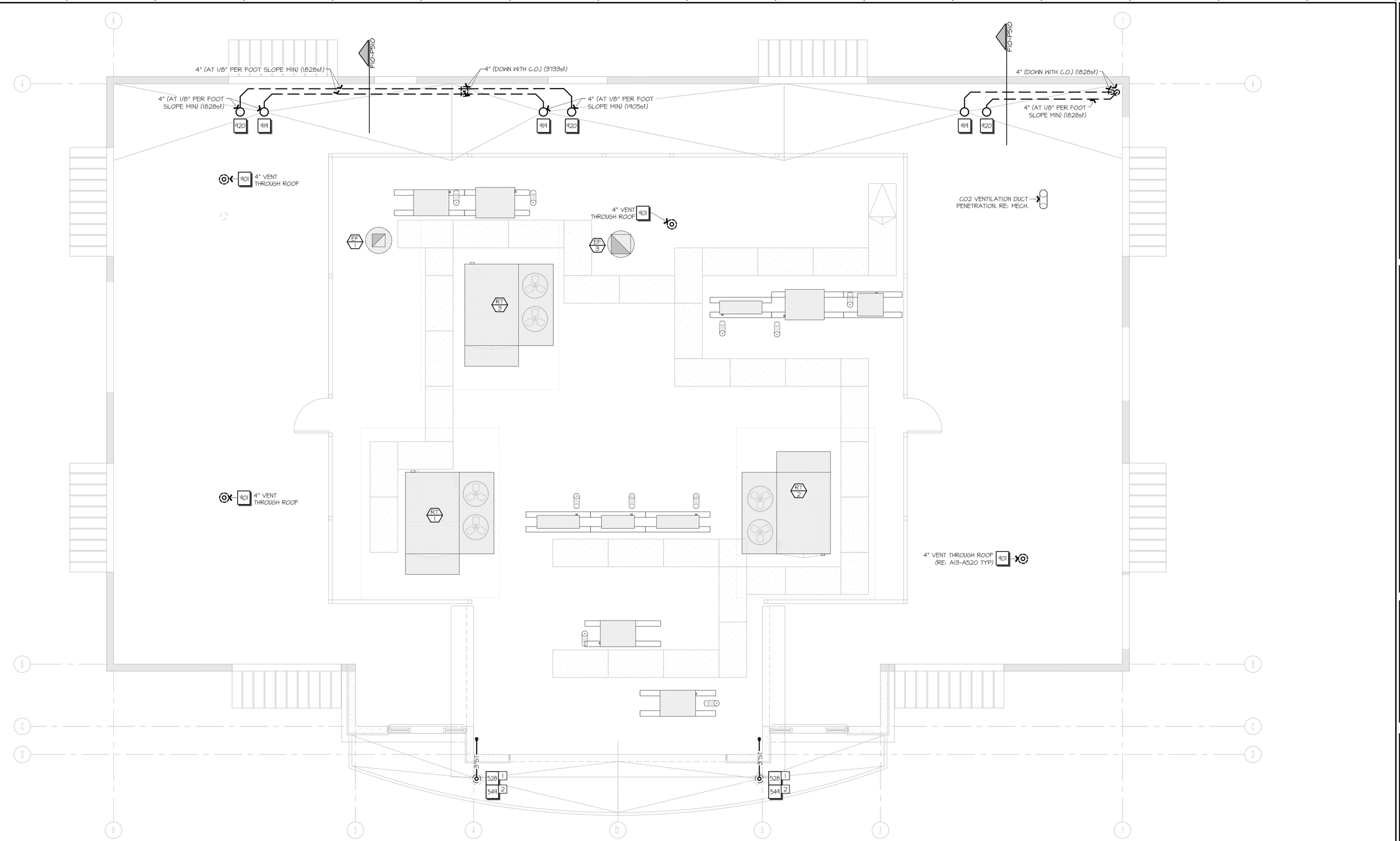
Development Services Department
Lee's Summit, Missouri
03/10/2025



REFER TO SHEET P600 FOR [*] EQUIPMENT TAGS

1 PROVIDE ROOF DRAIN WITH 3" PIPE IN LOW CANOPY ROOF.

2 PROVIDE HEAT TRACE FOR CANOPY DRAINS. RE: L8-P510 FOR DETAIL. RE: P600 FOR LENGTH AND SPECIFICATION.

A1 — PLUMBING ROOF PLAN
1/8" = 1'-0"

NORTH

A13 — PLAN NOTES

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SHEET TITLE:
PLUMBING ROOF PLAN

SHEET NUMBER:
P104

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Lee's Summit, Missouri
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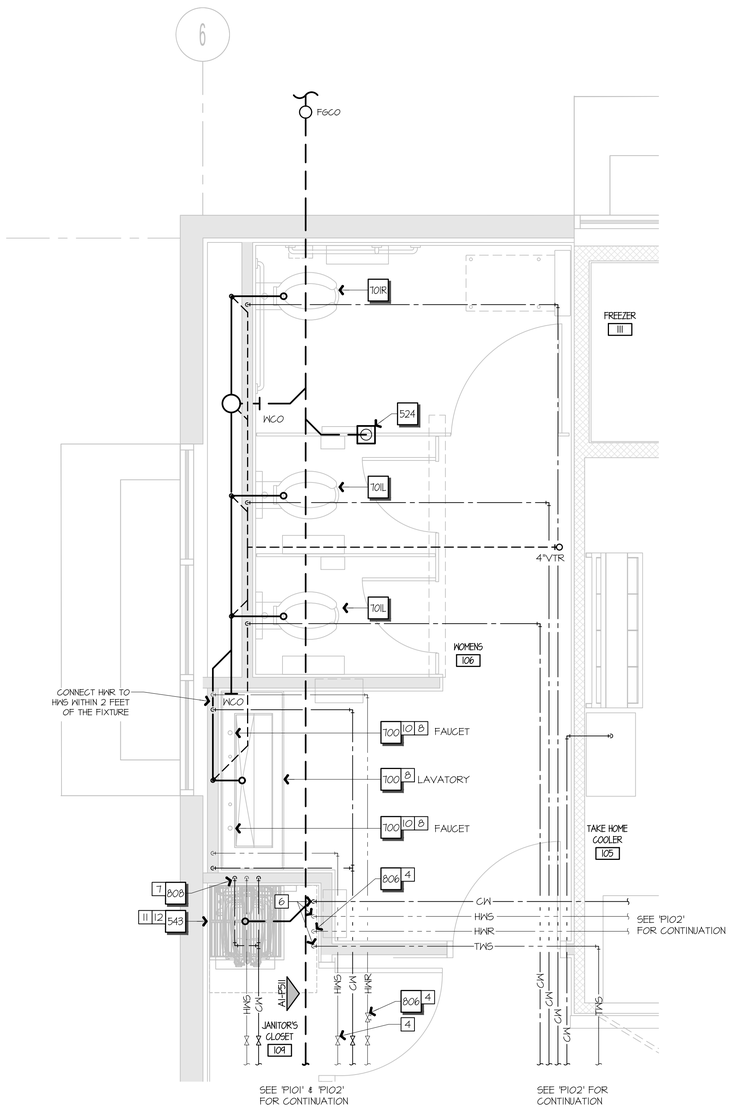
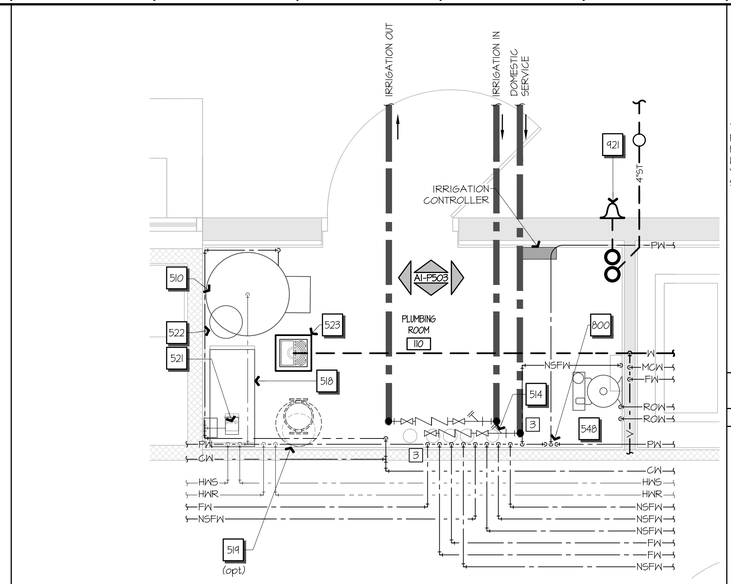
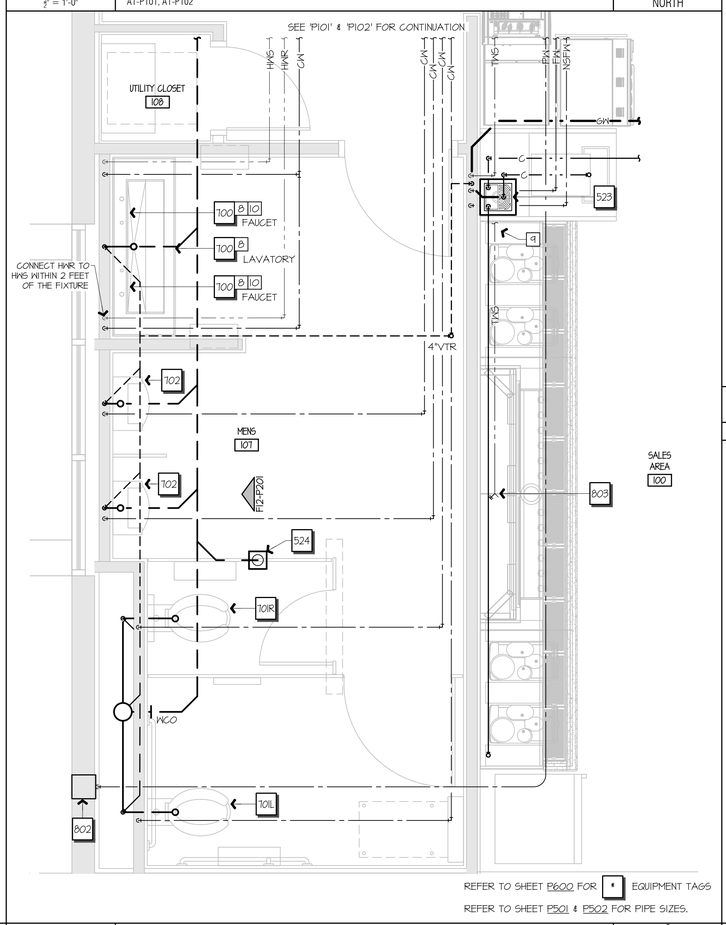


A1	PLUMBING ENLARGED WOMEN'S RESTROOM PLAN	NORTH
1/4" = 1'-0"	A1-P101, A1-P102	



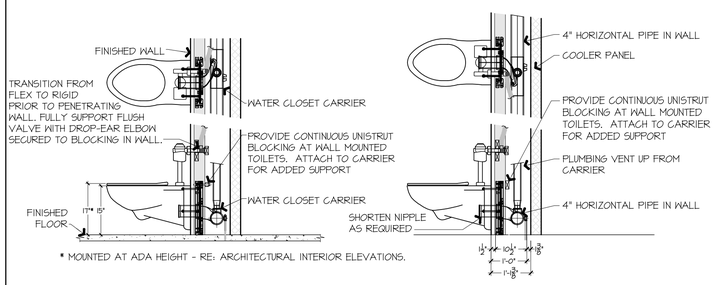
K7	PLUMBING ENLARGED PLUMBING ROOM PLAN	NORTH
1/4" = 1'-0"	A1-P101, A1-P102	



REFER TO SHEET P600 FOR [ ] EQUIPMENT TAGS

REFER TO SHEET P501 & P502 FOR PIPE SIZES.

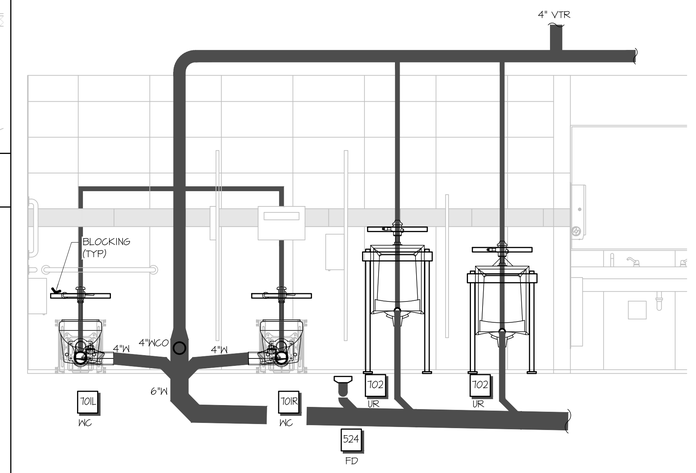
A7	PLUMBING ENLARGED MEN'S RESTROOM PLAN	NORTH
1/4" = 1'-0"	A1-P101, A1-P102	



NOTES
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. TRIM TRACK WHERE REQUIRED.

CRITICAL DIMENSIONS FOR WATER CLOSETS.

M12	CRITICAL DIMENSIONS AT WATER CLOSETS
1/2" = 1'-0"	A1-P103, A1-P201



TRANSITION FROM PEX TO RIGID BRASS NIPPLES FOR ALL THROUGH-WALL DEVICES. PROVIDE BLOCKING AND PIPE SUPPORTS IN WALL TO FULLY SECURE ALL FLUSH VALVES, FAUCET SPOUTS, & STOPS.

ROUGH-IN FAUCET SUPPLIES TO COORDINATE WITH UNDERCOUNTER SOAP BOTTLES.

RE: ARCHITECTURAL DRAWINGS FOR VERIFYING ADA FIXTURE HEIGHT REQUIREMENTS.
RE: PLUMBING RISER DIAGRAMS FOR ALL PIPE SIZES.

F12	MEN'S RESTROOM IN-WALL PIPING ELEVATION
NOT TO SCALE	A7-P201

A12	PLAN NOTES

1 NOT USED.

2 NOT USED.

3 MOUNT VALVE MANIFOLDS ON WALL. ROUTE WATER LINES THROUGH WALL TO SUPPLY FIXTURES INDICATED. DO NOT ROUTE WATER LINES OVER SECURITY CABINET OR OTHER ELECTRICAL EQUIPMENT.

4 PROVIDE HWS WITH BALL VALVE AND HWR WITH BALANCE VALVE. RE: P502 FOR MORE INFORMATION.

5 NOT USED.

6 PROVIDE HOT AND COLD WATER SUPPLIES WITH POINT OF USE MIXING VALVE AND SUPPLY HOSE BIB WITH TEMPERED WATER AS SCHEDULED ON P600. PROVIDE SHUT OFF VALVES LABELED "COFFEE BAR HOSE SPRAYER" AND BACKFLOW PREVENTER LOCATED IN THE VERTICAL PIPE RUNS. RE: P600.

7 PROVIDE CW LINE FOR CHEMICAL DISPENSING SYSTEM. ROUTE FLEXIBLE TUBING FROM WALL FAUCET TO CHEMICAL FEED SYSTEM.

8 INSTALL ALL LAVATORY PIPING AS HIGH AS POSSIBLE UNDERNEATH LAVATORY COUNTERTOP. INSULATE ALL EXPOSED PIPING PER ADA REQUIREMENTS. RE: SPECIFICATIONS.

9 TWS ROUTED BELOW EQUIPMENT WITHIN MILLWORK TO HOSE BIB. RE: HI-P512.

10 INSTALL HWS AND CWS STOPS, MIXING VALVES, AND CONTROLLERS FOR LAVATORY FAUCETS AS CLOSE TO THE OUTER WALLS AS POSSIBLE AND COORDINATE WITH SOAP CANISTERS. RE: A212 FOR LAVATORY ELEVATIONS.

11 PROVIDE PERMADRAIN DOME STRAINER IN DRAIN BODY.

12 RECESS FLOOR SINK ASSOCIATED WITH FLOOR SCRUBBER 1/4" BELOW FINISH FLOOR. RE: LT-A410.

STATE OF MISSOURI
NEIL P. BARTLEY
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SHEET TITLE:
PLUMBING ENLARGED RESTROOM PLANS

SHEET NUMBER:
P201

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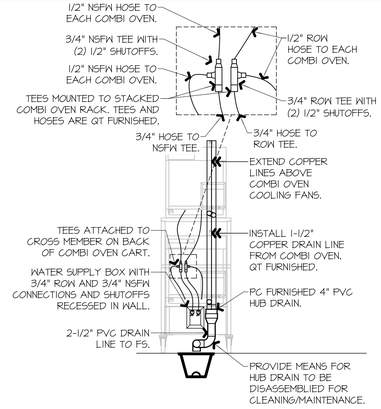
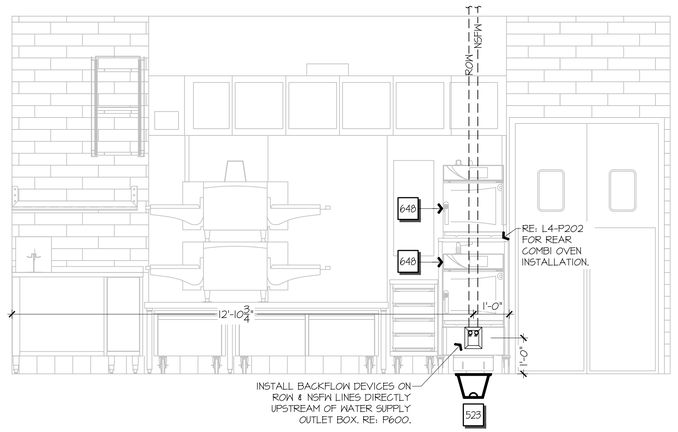
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



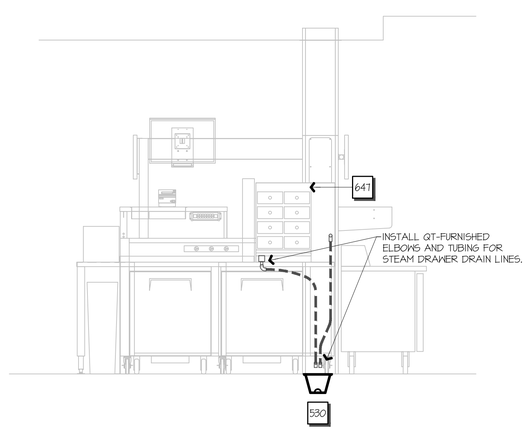
CONTRACTOR TO LABEL THE BACK OF THE COMBI OVEN AS FOLLOWS:
- RON IDENTIFIED AS CONNECTION WITH 70-125PPM REQUIREMENT
- NSFW IDENTIFIED AS CONNECTION WITH 70-360PPM REQUIREMENT.

L1	NOT USED

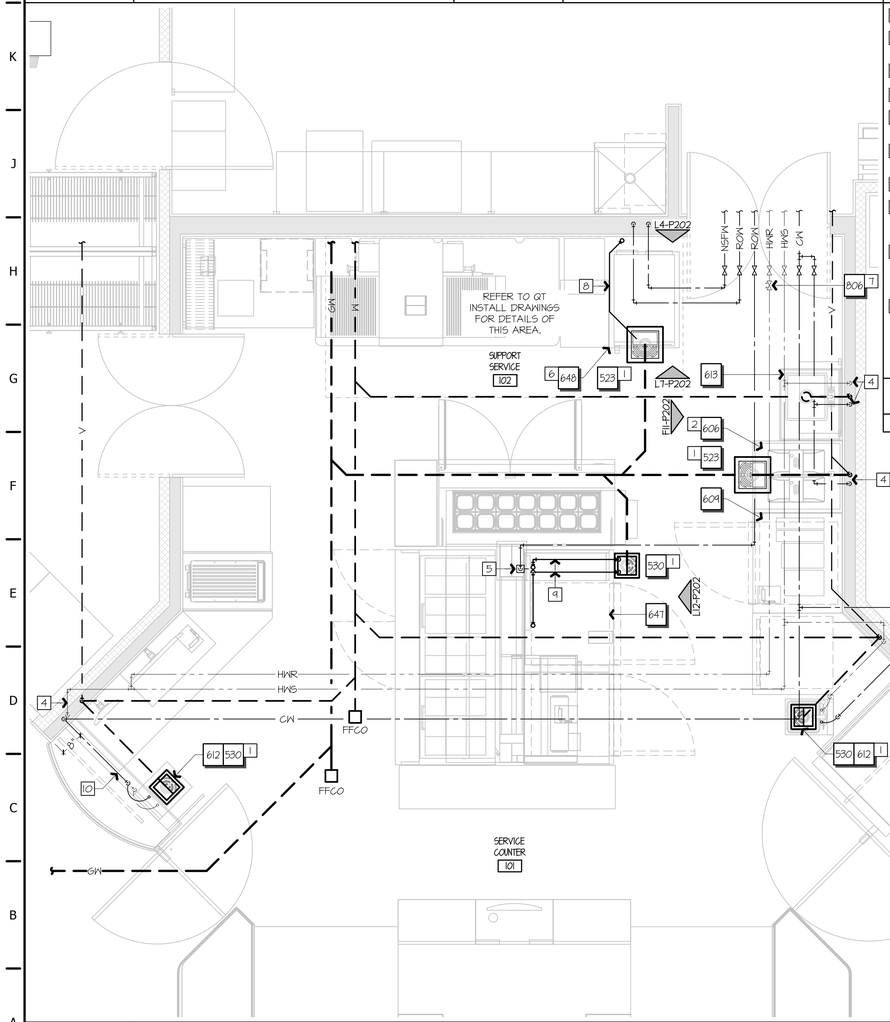
L4	REAR COMBI OVEN ELEVATION
3/4" = 1'-0"	A1-P102, A1-P202



L7	FSC REAR ELEVATION
3/4" = 1'-0"	A1-P102, A1-P202



L12	FSC ISLAND ELEVATION
3/4" = 1'-0"	A1-P202



1 INDIRECT DRAIN: DISCHARGE DRAIN INTO FLOOR RECEPTOR WITH AIR GAP OF TWICE THE PIPE DIAMETER.

2 INSTALL MFR-FURNISHED SINGLE-TEMP FAUCET ON TOP OF ICE CREAM MACHINE, CENTERED BETWEEN THE TWO BASINS. RUN BRAIDED STAINLESS STEEL SUPPLY HOSE THROUGH THE BACK OF UNIT AND UP TO FAUCET.

3 NOT USED.

4 ROUTE WATER LINES DOWN IN FURRED OUT WALL ADJACENT TO COOLER PANEL.

5 ROUTE RON LINE OVERHEAD, REMOVE FACTORY INSTALLED COPPER PIPE, AND INSTALL PEX PIPING WITHIN QT FURNISHED FSC ISLAND. PROVIDE SHUT-OFF VALVE WITHIN PRE-INSTALLED SUPPLY BOX.

6 PROVIDE WATER SUPPLY OUTLET BOX WITH RON AND NSFW CONNECTION. RE: P600 FOR SPECIFICATION. INSTALL BOX AND COORDINATE WITH POWER DEVICES. RE: L4-P202 & L7-P202.

7 PROVIDE BALANCE VALVE ON HWR LINE. RE: P502 FOR MORE INFORMATION.

8 ROUTE 1-1/2" COPPER DRAIN LINE FROM EACH COMBI OVEN INDIVIDUALLY TO PVC HUB DRAIN AND DISCHARGE INDIRECT WASTE OVER FLOOR SINK. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN LINE. RE: L4-P202 & L7-P202.

9 INSTALL QT-FURNISHED DRAIN KIT FOR STEAM DRAWER DRAIN LINES AND DISCHARGE INDIRECT WASTE OVER FLOOR SINK. INSTALL ELBOW FITTINGS DIRECTLY TO EQUIPMENT DRAIN CONNECTION. ROUTE TUBING TO DISCHARGE WITH AN ELBOW FITTING TO INDIRECT WASTE OVER FLOOR SINK. PROVIDE AIR GAP TWICE THE DIAMETER OF THE DRAIN LINE. RE: A11-P202 & L12-P202.

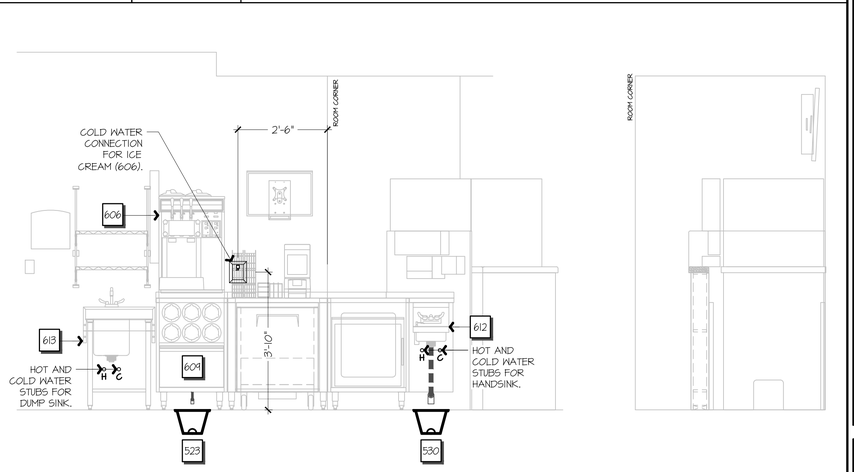
10 STACK CW AND HW LINES VERTICALLY AND MOUNT TO THE OUTSIDE OF MILLWORK FROM WALL TO HANDSINK.

G7	PLAN NOTES

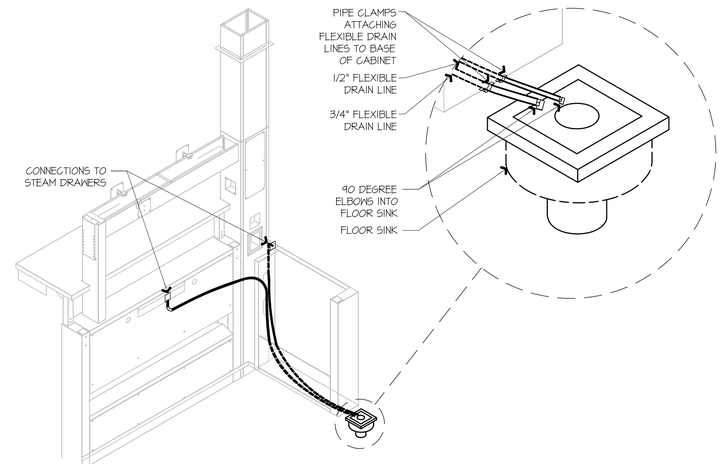
REFER TO SHEET P101 & P102 FOR PLUMBING CONTINUATION.
REFER TO SHEET P600 FOR [#] EQUIPMENT TAGS
REFER TO SHEET P501 & P502 FOR PIPE SIZES.

A1	PLUMBING ENLARGED SERVICE COUNTER PLAN
3/4" = 1'-0"	A1-P101, A1-P102

NORTH



F11	FSC RIGHT ELEVATION
3/4" = 1'-0"	A1-P202



A11	STEAM DRAWER DETAIL
NOT TO SCALE	

STATE OF MISSOURI
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SHEET TITLE:
PLUMBING
ENLARGED
SERVICE COUNTER
PLAN & ELEVATIONS

SHEET NUMBER:
P202

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Lee's Summit, Missouri
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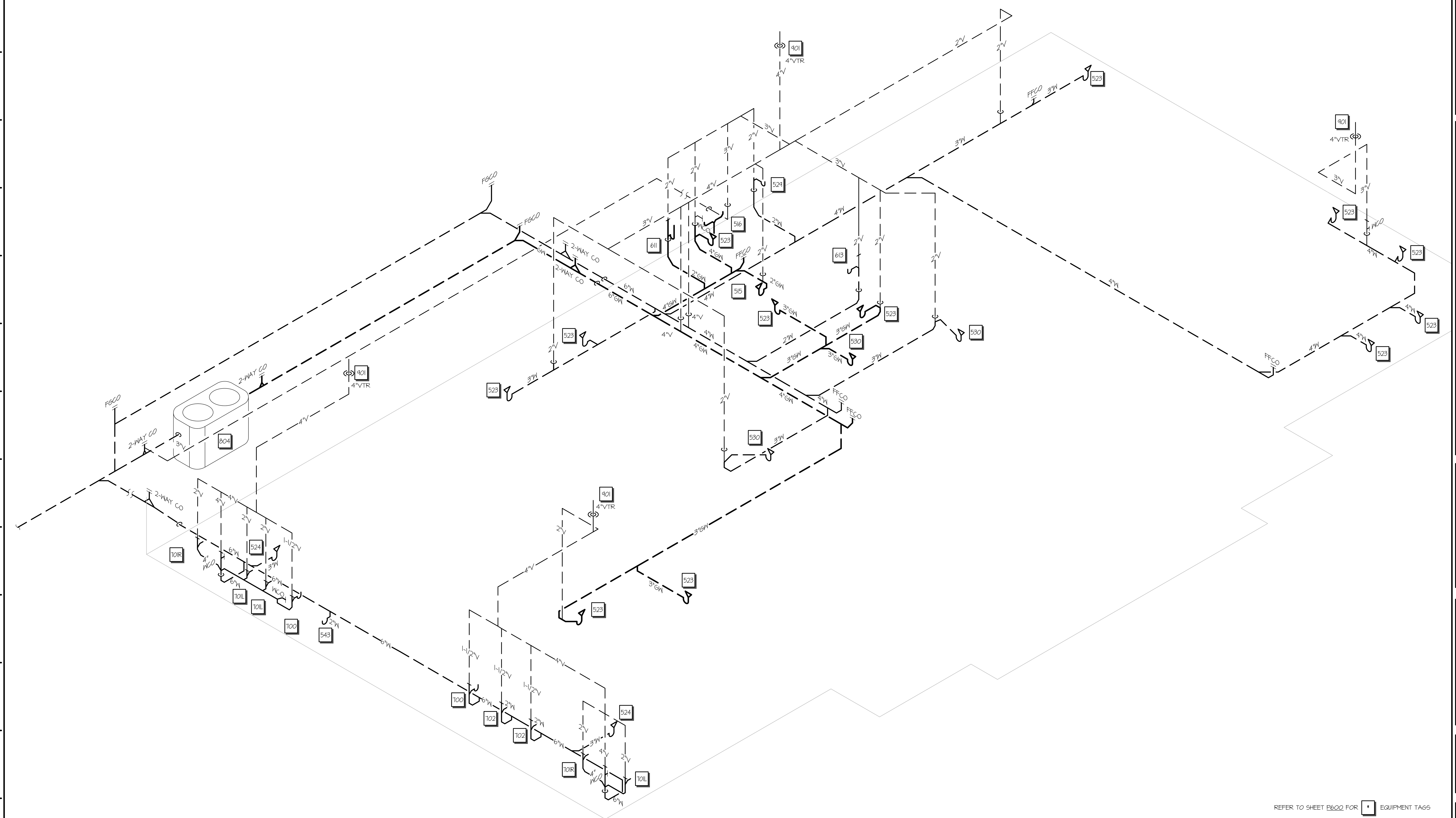

A1 PLUMBING WASTE & VENT RISER DIAGRAM

NOT TO SCALE A1-P101

STATE OF MISSOURI
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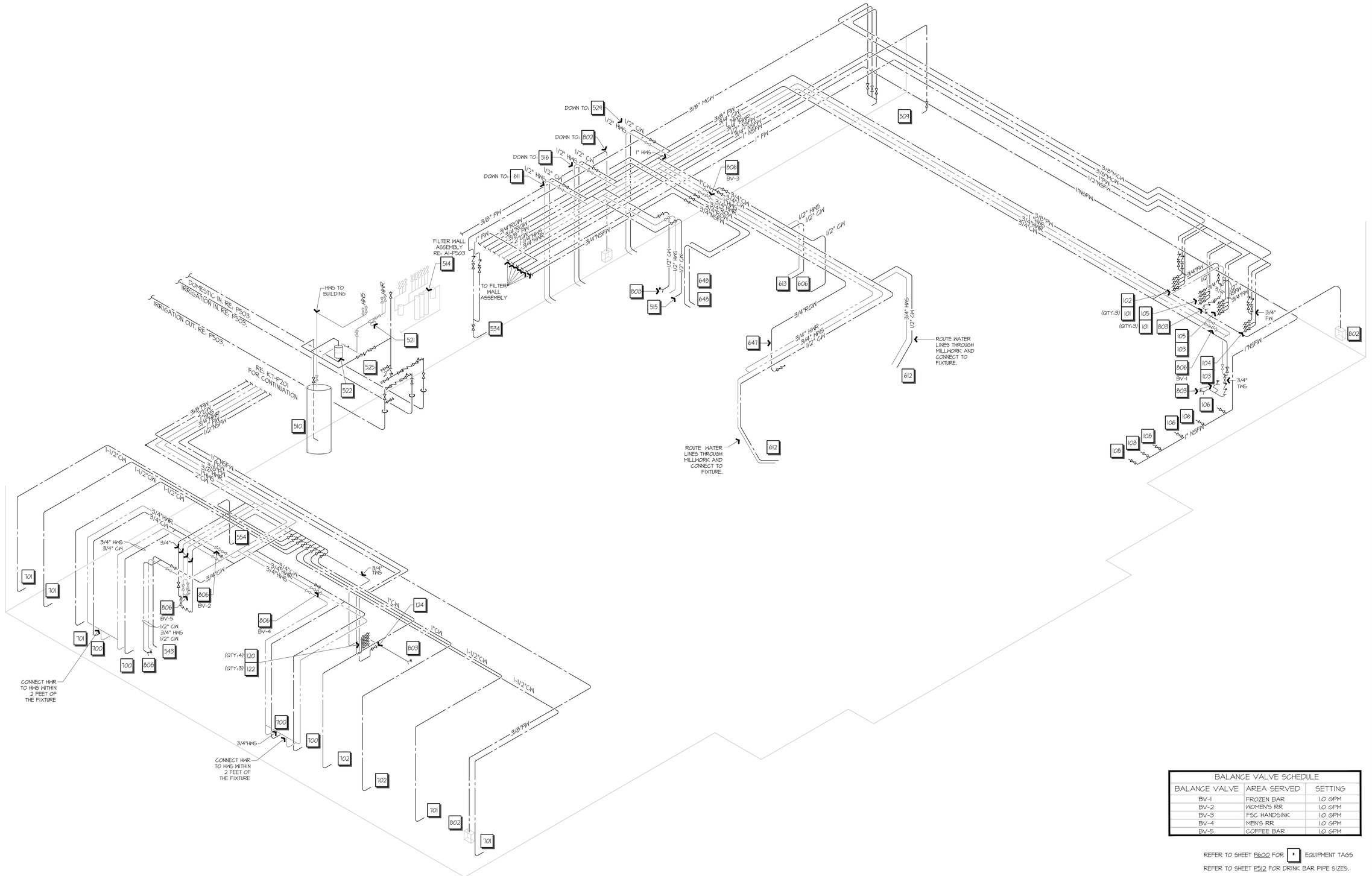
PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
PLUMBING WASTE & VENT RISER DIAGRAM

SHEET NUMBER:
P501



BALANCE VALVE SCHEDULE		
BALANCE VALVE	AREA SERVED	SETTING
BV-1	FROZEN BAR	1.0 GPM
BV-2	WOMEN'S RR	1.0 GPM
BV-3	FSC HANDSINK	1.0 GPM
BV-4	MEN'S RR	1.0 GPM
BV-5	COFFEE BAR	1.0 GPM

REFER TO SHEET P600 FOR [x] EQUIPMENT TAGS

REFER TO SHEET P512 FOR DRINK BAR PIPE SIZES.

A1 — PLUMBING WATER RISER DIAGRAM

NOT TO SCALE — A1-P102

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

HOSS & BROWN ENGINEERS
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Shawnee, Kansas 66217
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QuikTrip No. 0183R

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SHEET TITLE:
PLUMBING WATER RISER DIAGRAM

SHEET NUMBER:
P502

1 DOMESTIC WATER ENTRY WITH LINE SIZE MAIN SHUT-OFF GATE VALVE.

2 WATER PRESSURE: PROVIDE WATER PRESSURE REGULATOR ON SERVICE ENTRANCE DOWNSTREAM OF MAIN SHUTOFF VALVE WHEN SERVICE LINE PRESSURE EXCEEDS 80 PSIG.

3 PRESSURE GAUGE: GRAINGER 4TA54 0-160 PSIG WITH 1/4" TAP.

4 BACK FLOW PREVENTER: FULL LINE SIZE. CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINE FROM AIR GAP FITTING TO FLOOR SINK. PROVIDE INDEPENDENT SUPPORTS FROM WALLS AND/OR FLOOR.

5 2" COLD WATER OUT TO BUILDING.

6 WATER HEATER ON FLOOR WITH DIELECTRIC UNITS ON WATER SUPPLIES AND WATER HEATER DRAIN VALVE. USE PIPE UNIONS AND ISOLATION BALL VALVES. PROVIDE A 210°F TEMPERATURE AND 150 PSI PRESSURE RELIEF VALVE WITH TEST LEVER SIZED WITH ASME TEMPERATURE STEAM RATING 10° OVER HEATER INPUT. RUN HARD COPPER DISCHARGE LINE FULL SIZE OF VALVE OUTLET. RE: MANUFACTURER'S INSTALLATION GUIDE.

7 1-1/2" TO 1" PIPE REDUCER FOR WATER SOFTENER CONNECTION.

8 NOT USED.

9 NSFW LINE OUT TO FSC.

10 NOT USED.

11 NOT USED.

12 CIRCULATING PUMP WITH AQUASTAT SET AT 104°F, SET TO BE OPERATIONAL 24-HOURS.

13 HOSE CONNECTION FOR POWER WASHER. SECURE TIGHT TO WALL.

14 JUNCTION BRACKET, BLEEDER VALVE PRESSURE RELIEF LINE, AND 3/8" TUBING UP TO CEILING FOR PRESSURE WASHER CONNECTION.

15 ROUTE TUBING IN CEILING VOID TO REMOTE STATION BOXES PER POWER WASHER MANUFACTURER'S REQUIREMENTS AND AS SHOWN ON PLAN. TUBING SUPPLIED BY QUIKTRIP AND INSTALLED BY CONTRACTOR.

16 ELECTRICAL SUPPLY FOR EQUIPMENT PROVIDED BY ELECTRICAL CONTRACTOR.

17 PROVIDE UPWARD FACING TEE, SHUT-OFF VALVE, AND TRANSDUCER PER EMS.

18 HOT WATER SUPPLY TO FSC, DRINK BAR, AND WORKROOM.

19 HOT WATER SUPPLY TO JANITOR'S CLOSET AND RESTROOM.

20 WATERWISE WW-ICE-55L SCALE INHIBITOR OR EQUAL.

21 CRUSHED ICE: NSFW ROUTE OVER CEILING TO CRUSHED ICE MAKERS AT FOUNTAIN AND TEA.

22 MULTIPLEX: NSFW ROUTE OVER CEILING TO MULTIPLEX FOR BEVERAGE DISPENSERS.

23 COFFEE BAR: NSFW ROUTE OVER CEILING TO COFFEE BAR.

24 FROZEN BAR: NSFW ROUTE OVER CEILING TO FROZEN BAR.

25 FOUNTAIN, TEA, AND CUBED ICE MACHINES: FW ROUTE UP OVER CEILING TO FOUNTAIN, TEA, AND CUBED ICE MACHINES.

26 ICE BAGGER & ICE KIOSK: FW ROUTE OVER CEILING TO ICE BAGGER AND ICE KIOSK.

27 COFFEE BAR: FW ROUTE OVER CEILING TO COFFEE BAR.

28 BACKFLOW PREVENTER PER PLUMBING SCHEDULE P600. INSTALL DRAIN LINE FROM AIR GAP FITTING TO FLOOR SINK.

29 ROUTE 3/4" PVC DRAIN LINE DOWN WALL AND INDIRECT WASTE OVER FLOOR SINK.

30 LAWN IRRIGATION LINE IN FROM STREET. RE: IRRIGATION PLANS FOR SIZE.

31 1/2" MALE AIR HOSE FITTING FOR BLOWOUT.

32 LAWN IRRIGATION LINE OUT TO LAWN. RE: IRRIGATION PLANS FOR SIZE.

33 OPTIONAL BOOSTER PUMP. IF REQUIRED, PROVIDE BOOSTER PUMP SYSTEM, FACTORY PRESET AT TO PSI SYSTEM PRESSURE, WITH INLINE PRESSURE TANK FOR WHOLE-BUILDING WATER SUPPLY. PROVIDE STEEL FLOOR STAND AND MOUNT SECURELY WITH NEOPRENE ISOLATION MOUNTS. PROVIDE BALL VALVES, PIPE UNIONS AND TRANSITION FITTINGS ON INLET AND OUTLET LINES, AND CHECK VALVE. SET UNIT TO MAINTAIN TO-PSI IN SYSTEM. FILL PRESSURE TANK WITH 68 PSI AIR CHARGE.

34 NOT USED.

35 NOT USED.

36 NOT USED.

37 NOT USED.

38 PROVIDE BALANCE VALVE AND SET TO 5 GPM.

39 3M/CUNO AQUAASSURE NO SCALE INHIBITOR.

40 ROW LINE OUT TO FSC KITCHEN. RE: P102 & P502.

41 HOT WATER RETURN FROM RESTROOMS.

42 HOT WATER RETURN FROM FSC.

43 PROVIDE WATTS N36-M1 VACUUM RELIEF VALVE ON COLD WATER LINE FOR WATER HEATER IN LOCATION SHOWN.

44 INSTALL REVERSE OSMOSIS CLEANING BYPASS KIT AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

45 PROVIDE NORMALLY CLOSED LINE SIZE STAINLESS STEEL BALL VALVE TYP OF MC #SSV-75NLH ON SERVICE BYPASS LINE FOR REVERSE OSMOSIS SYSTEM.

46 INSTALL OWNER FURNISHED REVERSE OSMOSIS WATER STORAGE TANK.

47 DOMESTIC SERVICE ENTRANCE AND IRRIGATION ENTRANCE SHALL BE PEX UNLESS NOTED OTHERWISE PER CIVIL.

48 PROVIDE LINE SIZE STAINLESS STEEL BALL VALVES TYP OF MC #SSV-75NLH.

49 ENSURE QT FURNISHED FLOW CONTROL VALVE IS INSTALLED IN DISCHARGE LINE OF REVERSE OSMOSIS SYSTEM. RE: INSTALLATION INSTRUCTIONS.

50 INSULATE PIPING FROM WATER HEATER TO HEAT TRAP PER SPECIFICATIONS.

51 NOT USED.

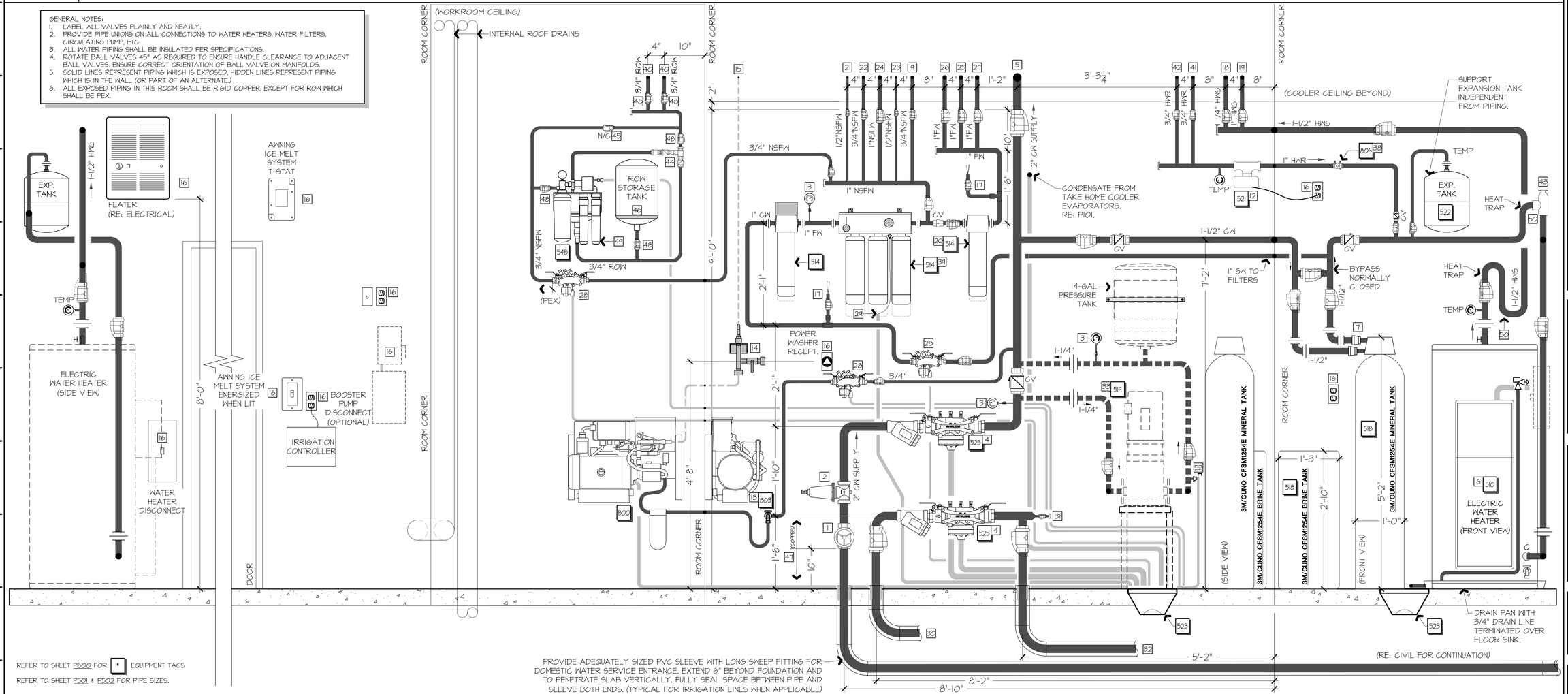
52 NOT USED.

53 PROVIDE PRESSURE RELIEF VALVE TYPICAL OF ZURN #P1500XL ON OUTLET OF BOOSTER PUMP. SET RELIEF AT 100 PSI AND ROUTE TO FLOOR SINK.

L1 PLUMBING WATER WALL NOTES

A1-P503

GENERAL NOTES:
1. LABEL ALL VALVES PLAINLY AND NEATLY.
2. PROVIDE PIPE UNIONS ON ALL CONNECTIONS TO WATER HEATERS, WATER FILTERS, CIRCULATING PUMP, ETC.
3. ALL WATER PIPING SHALL BE INSULATED PER SPECIFICATIONS.
4. ROTATE BALL VALVES 45° AS REQUIRED TO ENSURE HANDLE CLEARANCE TO ADJACENT BALL VALVES. ENSURE CORRECT ORIENTATION OF BALL VALVE ON MANIFOLDS.
5. SOLID LINES REPRESENT PIPING WHICH IS EXPOSED, HIDDEN LINES REPRESENT PIPING WHICH IS IN THE WALL (OR PART OF AN ALTERNATE.)
6. ALL EXPOSED PIPING IN THIS ROOM SHALL BE RIGID COPPER, EXCEPT FOR ROW WHICH SHALL BE PEX.



REFER TO SHEET P600 FOR [ ] EQUIPMENT TAGS

REFER TO SHEET P501 & P502 FOR PIPE SIZES.

A1 PLUMBING WATER WALL ELEVATION

1"=1'-0" J7-P201, L1-E501

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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PLUMBING WATER WALL ELEVATION

SHEET NUMBER:
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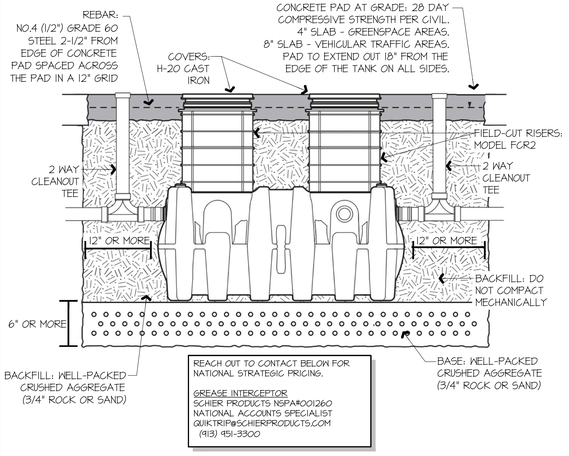
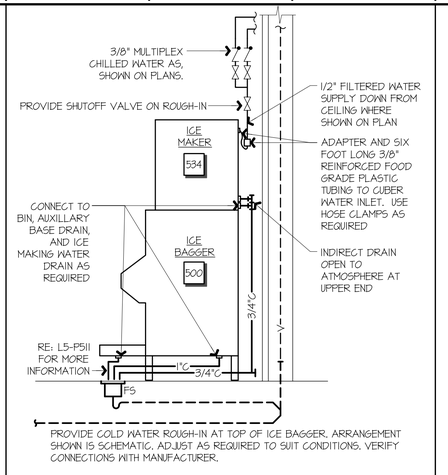
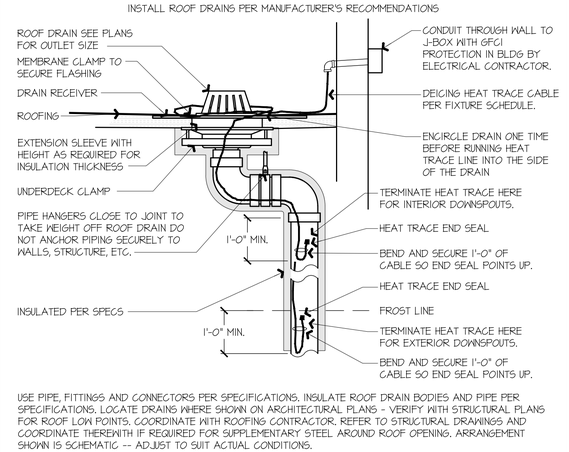
03/10/2025



L1	GREASE INTERCEPTOR
NOT TO SCALE	



L5	ICE BAGGER CONNECTIONS
NOT TO SCALE	



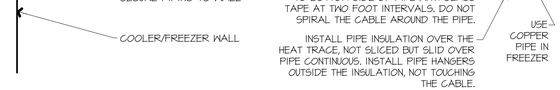
USE PIPE, FITTINGS AND CONNECTORS PER SPECIFICATIONS. INSULATE ROOF DRAIN BODIES AND PIPE PER SPECIFICATIONS. LOCATE DRAINS WHERE SHOWN ON ARCHITECTURAL PLANS - VERIFY WITH STRUCTURAL PLANS FOR ROOF LOW POINTS. COORDINATE WITH ROOFING CONTRACTOR. REFER TO STRUCTURAL DRAWINGS AND COORDINATE THEREWITH IF REQUIRED FOR SUPPLEMENTARY STEEL AROUND ROOF OPENING. ARRANGEMENT SHOWN IS SCHEMATIC -- ADJUST TO SUIT ACTUAL CONDITIONS.

L8	CANOPY ROOF DRAIN
NOT TO SCALE	

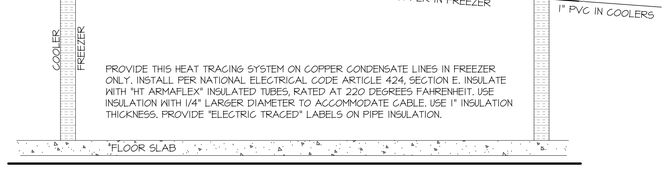
L12	PLUMBING FIXTURE ASSIGNED LOAD VALUES

PLUMBING FIXTURE ASSIGNED LOAD VALUES

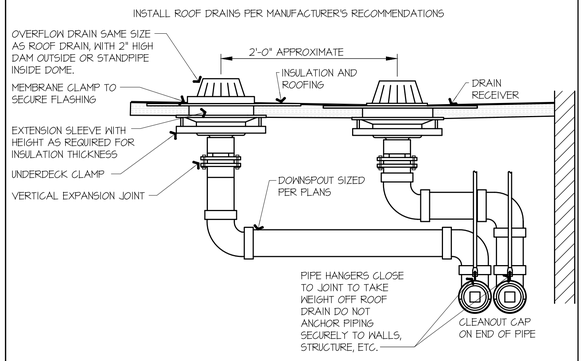
FIXTURE DESCRIPTION	QTY	SUPPLY CONTROL	SINGLE FIXTURE COLD	SINGLE FIXTURE HOT	SINGLE FIXTURE TOTAL	COMBINED FIXTURES COLD	COMBINED FIXTURES HOT	COMBINED FIXTURES TOTAL
KITCHEN								
KITCHEN SINK - HOTEL REST.	2	FAUCET	3	3	4	6	6	8
LAVATORY - PRIVATE	3	FAUCET	0.5	0.5	0.7	1.5	1.5	2.1
ICE MACHINES	4	-	1	0	1	4	0	4
MISC. DRINK DISPENSERS	23	-	1	0	1	23	0	23
DISHWASHER	1	-	0	1.4	1.4	0	1.4	1.4
DOMESTIC								
WATER CLOSET	5	FLUSH VALVE	10	0	10	50	0	50
URINAL	2	FLUSH VALVE	5	0	5	10	0	10
LAVATORY - PUBLIC	4	FAUCET	1.5	1.5	2	6	6	8
SERVICE SINK	2	FAUCET	2.25	2.25	3	4.5	4.5	6
WALL HYDRANT	6	FAUCET	0.5	0.5	0.7	3	3	4.2
TOTAL						108	22.4	116.7



F1	COOLER & FREEZER CONDENSATE DRAIN DETAIL
NOT TO SCALE	



F10	ROOF DRAIN AND OVERFLOW
NOT TO SCALE	



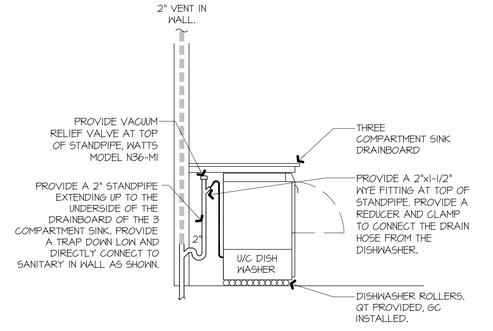
USE PIPE, FITTINGS AND CONNECTORS PER SPECIFICATIONS. INSULATE ROOF DRAIN BODIES AND PIPE PER SPECIFICATIONS. LOCATE DRAINS WHERE SHOWN ON ARCHITECTURAL PLANS - VERIFY WITH STRUCTURAL PLANS FOR ROOF LOW POINTS. COORDINATE WITH ROOFING CONTRACTOR. RE: STRUCTURAL DRAWINGS AND COORDINATE THEREWITH IF REQUIRED FOR SUPPLEMENTARY STEEL AROUND ROOF OPENING. ARRANGEMENT SHOWN IS SCHEMATIC -- ADJUST TO SUIT ACTUAL CONDITIONS.

F14	NOT USED

A1	NOT USED

A5	NOT USED

A10	NOT USED



THIS DRAWING IS SCHEMATIC. INSTALL STANDPIPE AND TRAP ON ITS SIDE FLAT AGAINST THE WALL TO ALLOW THE DISHWASHER TO SLIDE BACK AS FAR AGAINST THE WALL AS POSSIBLE.

A13	DISHWASHER STANDPIPE DETAIL
NOT TO SCALE	A1-P101

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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PLUMBING SECTIONS & DETAILS

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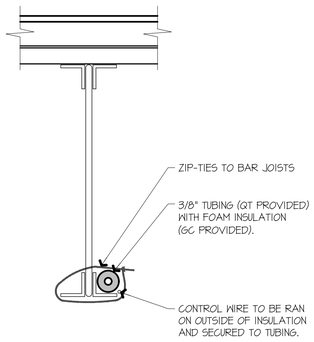


L1 POWER WASH TUBING SUPPORT

NOT TO SCALE

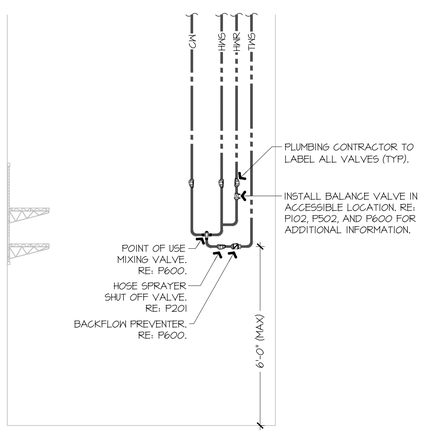
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1 1/4"	61-113
E	1 1/2"	114-154
F	2"	155-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3

CONTRACTOR TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS, OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

F1 WATER HAMMER ARRESTERS

NOT TO SCALE



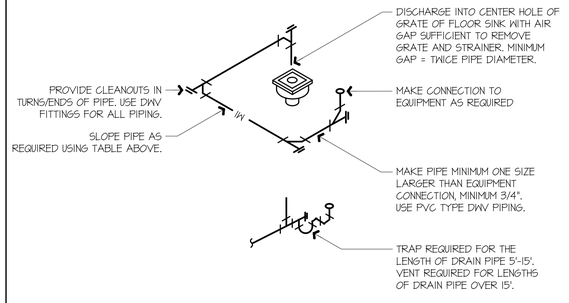
A1 REMOTE HOSE SPRAYER PIPING ELEVATION

3/4" = 1'-0"

A1-P102

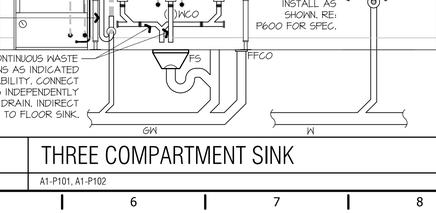
SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE (INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.



L5 INDIRECT DRAIN

NOT TO SCALE



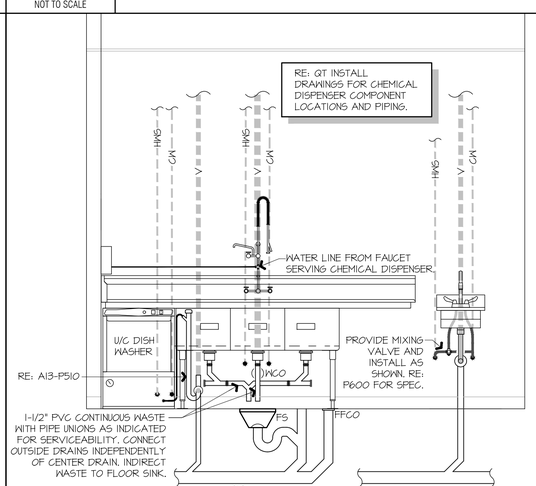
DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF JOISTS.

PROVIDE GALVANIZED STEEL SADDLE FOR ALL INSULATED PIPE LARGER THAN 3/4". VERIFY INSULATION THICKNESS WHEN SIZING HANGERS.

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=12' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. PEX: 32" OR 6'-0" IF USING UPONOR GALVANIZED STEEL SADDLES ON 1/2" OR 3/4". LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

F5 PIPE HANGERS

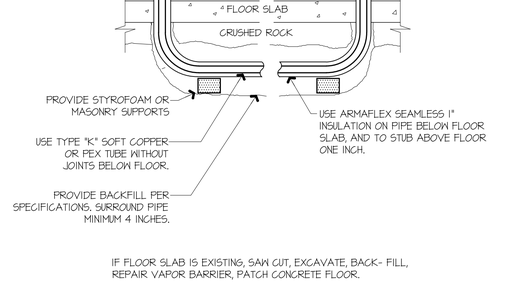
NOT TO SCALE



A5 THREE COMPARTMENT SINK

NOT TO SCALE

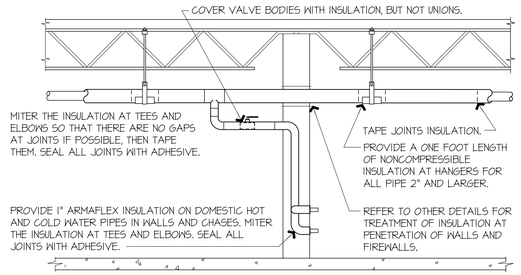
A1-P101, A1-P102



IF FLOOR SLAB IS EXISTING, SAW CUT, EXCAVATE, BACK- FILL, REPAIR VAPOR BARRIER, PATCH CONCRETE FLOOR.

L9 WATER PIPE UNDER SLAB

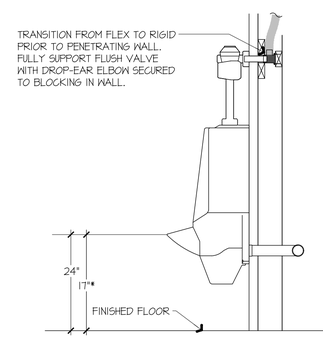
NOT TO SCALE



PROVIDE INSULATION ON ALL HOT & COLD WATER, CONDENSATE, & ROOF DRAIN PIPE PER SPECIFICATIONS. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50.

F9 PIPE INSULATION

NOT TO SCALE

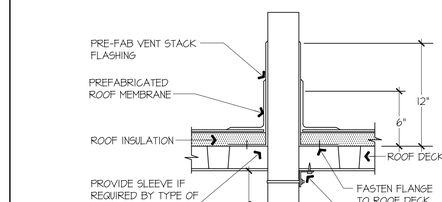


NOTES
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. TRIM TRACK WHERE REQUIRED.

* MOUNTED AT 24" FOR STANDARD HEIGHT, 17" FOR ADA HEIGHT, - REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.

A9 URINAL DETAIL

NOT TO SCALE



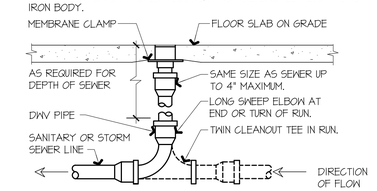
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR TWO FEET FROM ANY VERTICAL SURFACE. PROVIDE 1/2" UNICELLULAR INSULATION ON VENT PIPE INSIDE BUILDING WITHIN TEN FEET OF VENT THROUGH ROOF LOCATION.

ALSO RE: A13-A520 WHICH TAKES PRECEDENCE WITH REGARD TO ROOFING MEMBRANE INSTALLATION.

L13 VENT THROUGH ROOF (VTR)

NOT TO SCALE

PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE BRONZE PLUG IN CAST IRON BODY.



LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

F13 FLOOR CLEANOUT

NOT TO SCALE

A13 NOT USED

NOT TO SCALE

A1-P101, A1-P102

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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Missouri Certificate of Authority #001022

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

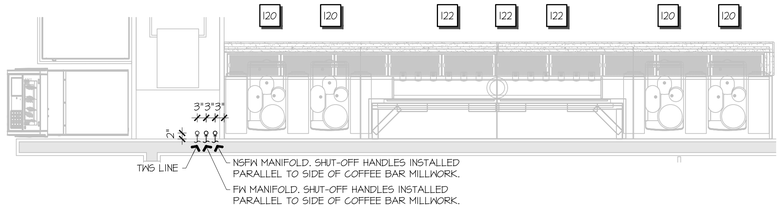
REV	DATE	DESCRIPTION

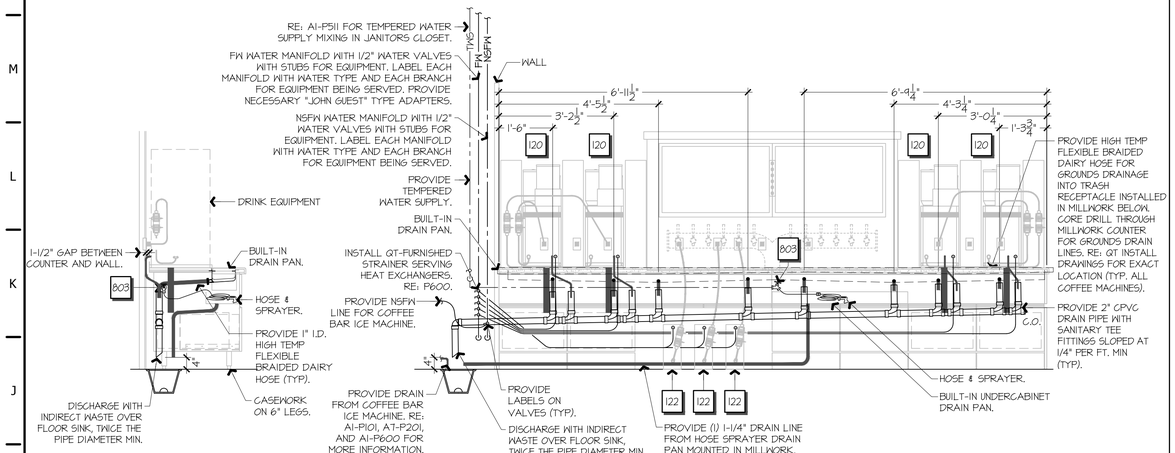
ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
PLUMBING GENERAL DETAILS

SHEET NUMBER:
P511

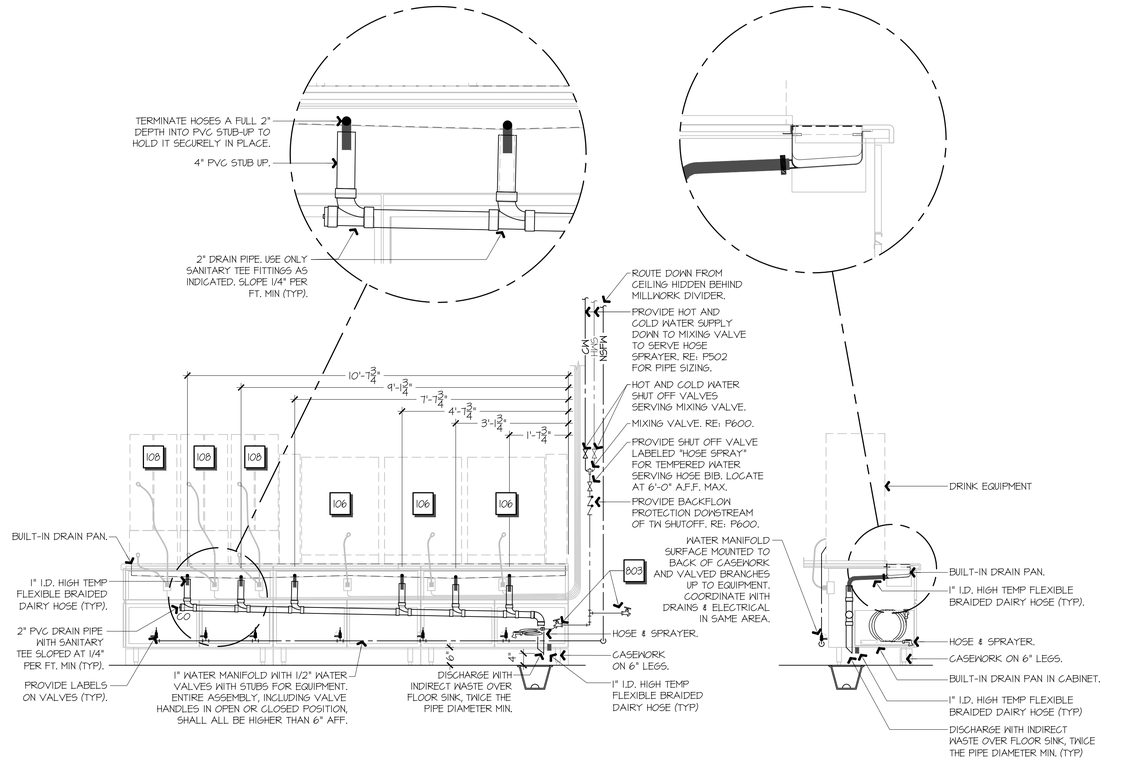
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025





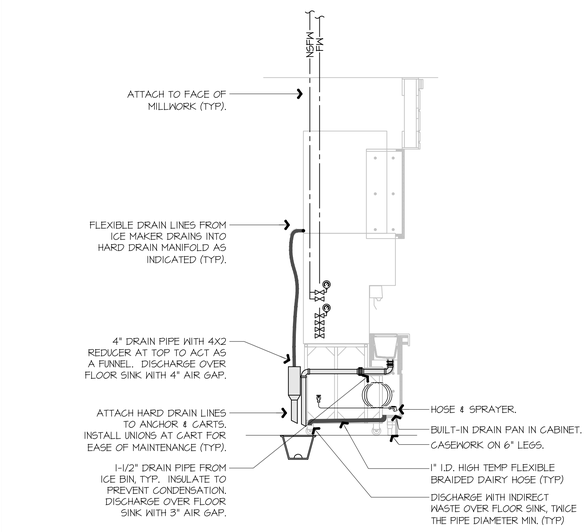
H1 COFFEE BAR REAR ELEVATION & SECTION

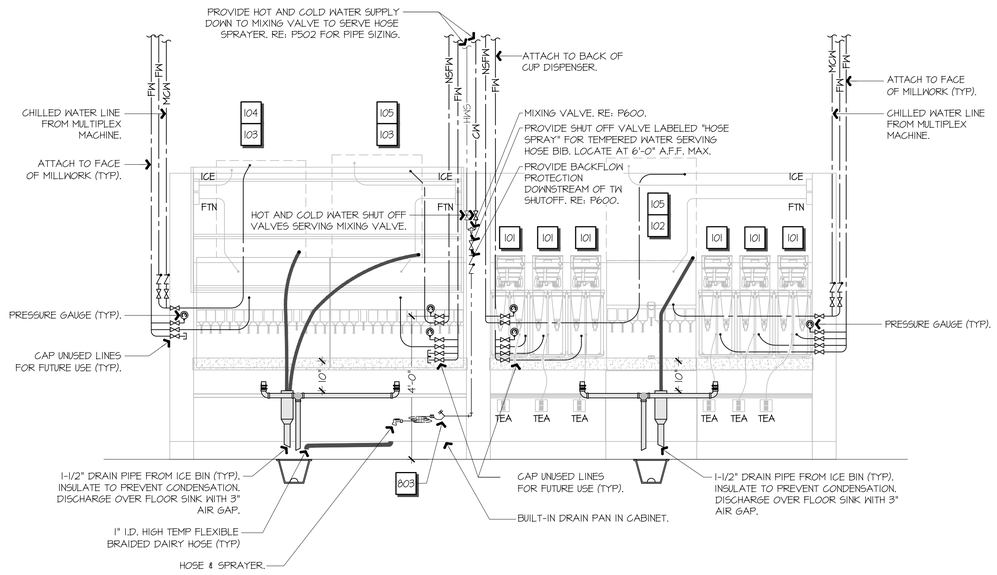
3/8" = 1'-0" | A1-P101, A1-P102

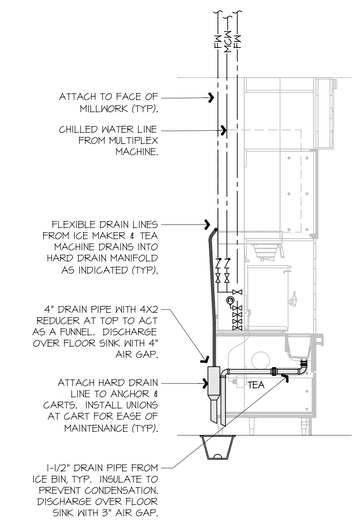


H9 FROZEN BAR REAR ELEVATION & SECTION

3/8" = 1'-0" | A1-P101, A1-P102







A1 FOUNTAIN WALL ELEVATION & SECTION

3/8" = 1'-0" | A1-P101, A1-P102

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
PLUMBING SECTIONS & DETAILS

SHEET NUMBER:
P512

PLUMBING EQUIPMENT LIST AND CONNECTION SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM & ACCESSORIES	CONNECTIONS CW	HW	TW	W	V	FURNISHED BY	BACKFLOW (PC FURNISHED)	NOTES
101	BREWED TEA DISPENSER	BUNN	41400.002		1/2"FPT			DRIP TRAY		GT	WILKINS #38-140 (D.C. ASSE 1022)	17
102	FOUNTAIN MACHINE 8-HEAD	CORNELIUS	ED 250-8		1/2"FPT			1A TO F5		GT	(INTEGRAL AIR GAP)	15
103	FOUNTAIN MACHINE 12-HEAD	CORNELIUS	ED 350-12		1/2"FPT			1A TO F5		GT	(INTEGRAL AIR GAP)	
104	CUBED ICE MAKER	HOSHIZAKI	KM-1100MR-JZ		3/8"FPT			1A TO F5		GT	(INTEGRAL NSF AIR GAP)	15
105	CRUSHED ICE MAKER	HOSHIZAKI	F-200MR-JZ-C		1/2"NSFPT			1A TO F5		GT	(INTEGRAL NSF AIR GAP)	
106	FREEZONI MACHINE	FBD	T14		3/8"NSFPT			1A TO F5		GT	WILKINS #38-140 (D.C. ASSE 1022)	17
108	SMOOTHIE MACHINE	BUNN	BUNN RULTRA-2 PAF		1/2"NSFPT			DRIP TRAY		GT	WILKINS #38-140 (D.C. ASSE 1022)	17
120	BEAN TO CUP COFFEE	CURTIS	GENESIS		3/8"FPT			1/2"		GT	WILKINS #38-140 (D.C. ASSE 1022)	17
122	COFFEE HEAT EXCHANGER	CURTIS	WBSGT63000	GRAINGER "APPROVED VENDOR" BRASS, 3/8" NPT, 20 MESH Y	1/2"FPT					GT		
	STRAINER	FILTREX	886434							GT		2
124	COFFEE BAR ICE MACHINE	CORNELIUS	IMD 300-15A		1/4"FPT			1-1/2"		GT	WILKINS #38-140 (D.C. ASSE 1022)	17
218	END CAP FLOOR COOLER	OASIS	FSE663R					1A TO F5		GT		
220	GOLD WELL	THERMELL REFRIGERATION	14RQB							GT		
500	ICE BAGGER	FOLLETT	DB1000					1A TO F5		GT		
508	CO2 TANK	CHART	CARBO-MIZER 750							GT		
509	MULTIPLEX	MULTIPLEX	SOM04		3/4"NSFPT			1A TO F5		GT	WILKINS #38-140 (D.C. ASSE 1022)	17
510	WATER HEATER	RUUD	E85A-12-6	208V-3PH, 12.3KW, 85GAL, 55 GPH RECOVERY, SET AT 140 DEG. 30" ROUND DRAIN PAN						PC PC		9
514	WATER FILTRATION SYSTEM	3M/CUNO	BEV340/5F185		1"			1A TO F5		GT	WILKINS 1-375XL (RPZ ASSE 1013)	12,17
		WATER WISE	WW-ICE-55L		1"					GT		
515	JANITOR SINK	CUSTOM ST. STEEL	24"x24"x10" STAINLESS	WITH 28" STAINLESS STEEL SIDE SPLASHES ON ONE OR TWO WALLS				2"	2"	GT		16
	FAUCET	DELTA	28C2383 WITH INTEGRAL VB	PER PLAN. MOUNT CENTERLINE OF FAUCET 36" A.F.F.	1/2"	1/2"				PC		
				DRAIN FITTING.						PC		
	CHEMICAL SYSTEM	GINTAS			1/2"					GT	(INTEGRAL AIR GAP - ASSE 1055B)	
516	3-COMPARTMENT SINK	CUSTOM ST. STEEL	3-COMP W/ DRBRDS					1A TO F5		GT		27
	FAUCET	T&S BRASS	B-0133-A10-B08	BACK-MOUNT PRE-RINSE AND SWING SPOUT FAUCET.	1/2"	1/2"				PC		
		T&S BRASS	B-3940-3X	(3) 2" PULL-HANDLE DRAIN WASTES.						PC		
	CHEMICAL SYSTEM	GINTAS		SUPPLY CONNECTION FROM FAUCET.						GT	(INTEGRAL AIR GAP - ASSE 1055B)	
518	WATER SOFTENER	3M/CUNO	CFSM1254E		1"			1A TO F5		PC		
519	BOOSTER PUMP - OPTIONAL	GOULDS	5SV	40 GPM MAX, 45 PSI BOOST	2"					GT		21
	PRESSURE TANK	GOULDS	HYDROPRO V45P	13.9 GALLONS	1"					GT		
521	RECIRCULATING PUMP	GRUNDFOS	UP-15-18 BUC1	(NWR: 5 GPM @ 10 FT HEAD) BRONZE BODY, NSF LISTED.		1"				PC		19
522	EXPANSION TANK	AMTROL	ST-12		3/4"					PC		
523	FLOOR SINK	MIFAB	F5T20-30-B4-150	PVC 12"x12"x6" DEEP BODY, 1/2 GRATE (UNO RE: AI-P101)				3" OR 4"		PC		3
524	FLOOR DRAIN	JOSAM	30003-15-Y	CAST IRON BODY ADJUSTABLE, 5"x5" NICKEL BRONZE STRAINER				3"	1-1/2"	PC		3
525	BACKFLOW PREVENTER	WILKINS	375XL-SA6	SUPPLY CONNECTION BY PC				PER PLAN		PC	(RPZ ASSE 1013)	3
527	CONDENSATE PUMP	LITTLE GIANT	VCCA-2OULS 554201101					1A TO F5		PC		
528	CANOPY DRAIN	JOSAM	21503-3-T-AE	3" ROOF DRAIN WITH DECK CLAMP & DRAIN RECEIVER & EXTENSION.						PC		
529	HANDSINK	ACORN	MH150-ES21-2	WALL MOUNTED STAINLESS STEEL HANDSINK (LESS FAUCET)				1-1/2"	2"	PC		7
	FAUCET	DELTA	21C4844		1/2"		1/2"			PC		
	THERMOSTATIC MIXING VALVE	POWERS	LFE480-00	SET TO MAXIMUM TEMPERATURE OF 100 DEGREES (ASSE 1070)	1/2"	1/2"				PC		
530	FLOOR SINK	MIFAB	F5524-30-B4-150	PVC 8"x8"x6" DEEP BODY, 1/2 GRATE (UNO RE: AI-P101)				3" OR 4"		PC		3
534	ICE MAKER FOR BAGGER	HOSHIZAKI	KM-1100SR-JZ3		1/2"FPT			1A TO F5		GT	(INTEGRAL NSF AIR GAP)	13,15
543	RECESSED MOP SINK	EMI	221-616MS	WITH 24" STAINLESS STEEL SIDE SPLASHES ON ONE OR TWO WALLS PER PLAN.				2"	2"	GT		
	WITH FAUCET	DELTA	28C2383 WITH INTEGRAL VB	MOUNT CENTERLINE OF FAUCET 36" A.F.F.	1/2"	1/2"				GT		
	CHEMICAL SYSTEM	GINTAS			1/2"					GT	(INTEGRAL AIR GAP - ASSE 1055B)	
548	REVERSE OSMOSIS SYSTEM	3M	S65LP200-CL	CLEANING BYPASS, STORAGE TANK	3/4"NSFPT			1A TO F5		GT	WILKINS 34-375XL (RPZ ASSE 1013)	17,28
549	CANOPY DRAIN HEAT TRACE	RAYCHEM	GM-IXT	150' SELF-REGULATING HEAT TRACE CABLE, HARD-WIRED.						PC		20
		RAYCHEM	AMC-F5	(1) THERMOSTAT						PC		
		RAYCHEM	FTC-P	(6) POWER CONNECTION & END SEAL KITS						PC		
		RAYCHEM	GM-RAKE	(6) DOWNSPOUT HANGING BRACKETS						PC		
550	FREEZER HEAT TRACE	RAYCHEM	FG1-15F	15' SELF-REGULATING HEAT TRACE CABLE, PLUG-IN						PC		
551	MDW GLYCOL CHILLER	MICROMATIC	MMPP4302-PKG							GT		
554	MDW AUTOCLEAN				3/8"					GT	(INTEGRAL DUAL CHECK VALVE)	
606	ICE CREAM	STOLTING	F131-3812-GT		1/2"					GT	(INTEGRAL AIR GAP)	
	SUPPLY OUTLET BOX	SIOUX CHIEF	696-61000_F	SUPPLY CONNECTION BY PC						PC		
609	UNDERCOUNTER ICE BIN							1A TO F5		GT	(INTEGRAL AIR GAP)	
611	DISHWASHER	MOYER DIEBEL	201HT-M4		1/2"	1/2"		2"	2"	GT	(INTEGRAL - LISTED PER ASSE 1004)	24,25
	CHEMICAL SYSTEM	GINTAS								GT	(INTEGRAL AIR GAP - ASSE 1055B)	
612	HANDSINK	ADVANCE TABCO	7-PS-22	WALL MOUNTED STAINLESS STEEL HANDSINK (LESS FAUCET) W/ SOAP HOLE ON LEFT				1-1/2"	1-1/2"	PC		7,18
	FAUCET	TOTO	T28S53ET#CP	.19 GPC 20-SECOND CONTINUOUS W/ ASSE 1070 THERMOSTATIC MIXING VALVE	1/2"	1/2"				PC		
				SET TO MAXIMUM TEMPERATURE OF 110 DEGREES.								
613	DUMP SINK	CUSTOM ST. STEEL	CUSTOM	CUSTOM WALL MOUNT STAINLESS STEEL SINK				1-1/2"	2"	GT		7
	FAUCET	T&S BRASS	B1110	2-HANDLE FAUCET WITHOUT METAL GRID DRAIN.	1/2"	1/2"				PC		
	DRAIN	MCGUIRE	151A							PC		
647	STEAM DRAWERS	ANTUNES	INFINISTEAM		3/4" ROW			1A TO F5		GT	WILKINS #34-705 (D.C. ASSE 1024)	17
648	COMBI OVEN	CONVOTHERM	EASYTOUCH	--				1A TO F5		GT		29
	SUPPLY OUTLET BOX	SIOUX CHIEF	696-62303_F	DISCARD DRAIN BOX, SUPPLY CONNECTION BY PC	3/4" NSFPT					PC	WILKINS #34-705 (D.C. ASSE 1024)	17
					3/4" ROW					PC	WILKINS #34-705 (D.C. ASSE 1024)	17
700	LAVATORY	CUSTOM SOLID SURFACE	CUSTOM SOLID SURFACE TROUGH	.19 GPC 20-SECOND CONTINUOUS, WALL OUTLET W/ THERMOSTATIC VALVE				1-1/4"	1-1/2"	GT		1,7
	FAUCET	TOTO	T28S53ET#CP/THP3150#CP	SET TO MAXIMUM TEMPERATURE OF 110 DEGREES.	1/2"	1/2"				PC		22
701	WATER CLOSET	ZURN	E822443 (Z5615)	WALL MOUNTED WATER CLOSET						PC		1,4,5
	FLUSH VALVE	ZURN	ZER6000AV-WS1	1.6 GALLONS PER FLUSH SENSOR FLUSH VALVE	1"					PC		6
	SEAT	ZURN	Z5955SS-EL	HEAVY DUTY WHITE PLASTIC OPEN FRONT SEAT						PC		
(701R/L)	CARRIER	ZURN	Z1201-N_4	ADJUSTABLE HORIZ. HIGH PERFORM. SIPHON JET NO-HUB W.C. CARRIER SYSTEM				4"	2"	PC		
702	URINAL	ZURN	E822444 (Z5755-U)	WALL MOUNTED URINAL						PC		1,4
	FLUSH VALVE	ZURN	ZER6003AV-EWS-GPM	0.5 GALLONS PER FLUSH SENSOR FLUSH VALVE	3/4"					PC		16
	CARRIER	ZURN	Z1221-EZ	HANGER PLATE TYPE CARRIER				2"	1-1/2"	PC		
800	POWER WASHER	SPRAY MASTER	300-5138 POWER CLEAN 5.0 CB	WALL MOUNTED	3/4"					GT	WILKINS 34-375XL (RPZ ASSE 1013)	10,17
801	CO2 CONNECTION PORT	CHART	CHART #213I211I							GT		
802	POWER WASHER CONNECTION BOX	SPRAY MASTER	300-1260	ROTARY KNOB OPTION	3/8"					GT		11
803	HOSE BIB	WATTS	LF5C-3	CAST BRASS FAUCET, CAST IRON WHEEL HANDLE, 3/4"			3/4"			PC	WILKINS #34-700XL (D.C. ASSE 1024)	17
	THERMOSTATIC MIXING VALVE	POWERS	LFE480-00	SET TO MAXIMUM TEMPERATURE OF 110 DEGREES (ASSE 1070)	1/2"	1/2"				PC		14
	HOSE AND SPRAYER KIT	T&S BRASS	B-3S-35AV-CH02	9' COILED HOSE, 3/4" FEMALE NPT TO 3/8" MALE NPT ADAPTER			3/8"			PC		14
804	GREASE INTERCEPTOR	SCHIER	6B-250	POLYETHYLENE TANK BODY					3"	PC		31
			AND TEST WELL	W/ RING & COVERS & NECK EXT, BUILT PER CITY REQUIREMENTS.				6"		PC		
806	BALANCE VALVE	BELL & GOSSETT	FS-X*							PC		26,30
807	NOT USED											
808	WALL FAUCET	WOODFORD	101	MOUNT 36" A.F.F.	1/2"					PC	(ANTI-SIPHON WITH INTEGRAL CHECK & ATMOSPHERIC VENT - ASSE 1019)	
900	VENT THROUGH ROOF							PER PLAN		PC		
919	INTERNAL ROOF DRAIN	JOSAM	21504-3-T-AE	4" ROOF DRAIN WITH DECK CLAMP & DRAIN RECEIVER & EXTENSION.						PC		
920	INTERNAL OVERFLOW RD	JOSAM	21504-3-17-T-AE	4" ROOF DRAIN WITH 2" HIGH DAM DECK CLAMP & DRAIN RECEIVER.						PC		
921	DOWNSPOUT NOZZLE	JOSAM	25010-5I	4" DOWNSPOUT NOZZLE SATIN BRONZE						PC		

NOTES:

1) FIXTURE IS ADA COMPLIANT.
2) INSTALL (1) OWNER FURNISHED STRAINER TO SERVE ALL (3) HEAT EXCHANGERS. RE: P512 FOR MORE INFORMATION.
3) PIPE SIZE AS SHOWN ON DRAWINGS. ADAPT AS REQUIRED.
4) COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.
5) RIM HEIGHT MOUNTED AT 17" ABOVE FINISHED FLOOR FOR ADA WATER CLOSET, 15" ABOVE FINISHED FLOOR FOR NON-ADA WATER CLOSET.
6) MOUNT VALVE PER ARCHITECTURAL ELEVATIONS - MOUNT PER ADA REQUIREMENTS 44" MAX. HEIGHT WHERE REQUIRED
7) INSULATE WATER AND DRAIN PIPING BELOW FIXTURE. PROVIDE WHITE PROWRAP PREMANUFACTURED INSULATION KITS BY MCGUIRE PRODUCTS.
8) NOT USED.
9) MANUAL RESET HIGH TEMPERATURE CUT OFF, THERMOSTAT CONTROL, T&P RELIEF VALVE, U.L. LABELED MEETING ASHRAE 90.1B STANDARDS, AND DRAIN PAN.
10) POWER WASH: CONNECT TO POWER WASH PER MANUFACTURER'S INSTRUCTIONS TO CONNECTION POINTS AS SHOWN IN "PLUMBING WATER WALL ELEVATION", SHEET P503. EQUIPMENT HAS AN INTEGRAL AIR-GAP USING FLUIDMASTER FLOAT VALVE.
11) OUTLET BOX: INSTALL PRESSURE WASHER STAINLESS STEEL BOX AND ALL PRESSURE WASHER LINES FROM BOXES TO CENTRAL POWER WASH EQUIPMENT LOCATION. INSTALL PIPING IN ACCORDANCE WITH LOCAL CODES.
INSTALL PIPING IN WALLS AND CEILINGS WITH INSULATION AND RUBBER ISOLATORS TO PREVENT VIBRATION NOISE. INSTALL "NON-POTABLE WATER" LABELS ON EXPOSED PIPE IN BACKROOM.
12) WATER FILTERS: INSTALL WATER FILTER SYSTEM AS SHOWN IN "PLUMBING WATER WALL ELEVATION", SHEET P503.
13) RI AT HEIGHT AS DIRECTED BY OWNERS REPRESENTATIVE OR AT 84".
14) PROVIDE COMPONENTS FOR HOSE BIBS LOCATED AT DRINK BARS. RE: P102 AND P512 FOR LOCATIONS.
15) INCLUDING CHILLED 3/8" MCH CONNECTION VIA MULTIPLEX MACHINE. ICE MACHINE FILL SYSTEM INCORPORATES INTERNAL AIR-GAP PER ITS NSF LISTING.
16) NOT USED.
17) CONTRACTOR SHALL PROVIDE BACKFLOW PREVENTER AND SIZE INDICATED.
18) CONTRACTOR TO FIELD DRILL 1" DIAMETER HOLE FOR SOAP DISPENSER. RE: GT INSTALL DRAWINGS.
19) PROVIDE CHECK VALVE ON DISCHARGE AS REQUIRED.
20) CUT CABLES TO 20' LENGTHS AND INSTALL POWER CONNECTION KITS & END SEALS FOR EACH. FIXED SET POINT FREEZE PROTECTION THERMOSTAT FOR INSTALLATION BY ELECTRICIAN.
21) RE: TO P102 WATER SERVICE BOX NOTE TO DETERMINE IF A BOOSTER PUMP IS REQUIRED.
22) SECURE VALVE AND OPERATOR TO WALL UNDER LAV.
23) NOT USED.
24) INSTALL GT PROVIDED ROLLERS.
25) PROVIDE COLD WATER CONNECTION FOR DRAIN TEMPERING KIT.
26) PROVIDE 6" STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF BALANCING VALVE. RE: SHEET P502 FOR BALANCE VALVE SETTINGS.
27) INSTALL OWNER-FURNISHED PERMADRAIN LOCKING STRAINER WITHIN EACH DRAIN OF 3 COMPARTMENT SINK.
28) PROVIDE UNIT SIZE QUICK DISCONNECTS ON INLET, OUTLET, AND DRAIN CONNECTIONS.
29) PROVIDE ALL NECESSARY ACCESSORIES FOR STACKING COMBI OVENS. RE: MANUFACTURERS INSTALLATION INSTRUCTIONS.
30) SIZE TO MATCH PIPE SIZE.
31) REACH OUT TO CONTACT LISTED ON GREASE INTERCEPTOR DETAIL FOR NATIONAL STRATEGIC PRICING.

GENERAL NOTES (APPLY TO ALL THE ABOVE):

A) CONTRACTOR WILL PROVIDE ALL FIXTURES LISTED IN THE PLUMBING FIXTURE SCHEDULE, INCLUDING ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING, BUT NOT LIMITED TO, DRAINS, TRAPS, STOPS, SUPPLIES, ADAPTERS, FITTINGS, ESCUTCHEONS, UNIONS, GAUGES, FLEX-CONNECTORS, ETC., WITH THE EXCEPTION OF FIXTURES WHICH ARE NOTED AS OWNER-FURNISHED, CONTRACTOR-INSTALLED IN RESPONSIBILITY MATRIX. CONTRACTOR STILL PROVIDES TRIM AND ACCESSORIES AS SCHEDULED. COORDINATE WITH GT REPRESENTATIVE. PROVIDE COMPLETE SUBMITTAL PACKAGE TO GT REPRESENTATIVE FOR APPROVAL.
B) ALL DEVICE ROUGH-IN MOUNTING HEIGHTS SHALL BE VERIFIED WITH THE EQUIPMENT MANUALS PRIOR TO COMMENCING WORK.
C) FURNISHED BY: GT=QUIKTRIP, PC=PLUMBING CONTRACTOR, MC=MECHANICAL CONTRACTOR, EC=ELECTRICAL CONTRACTOR.
D) AFF=ABOVE FINISHED FLOOR. CW=COLD WATER. FW=FILTERED WATER. RI=ROUGH-IN. BV=BALL VALVE (FULL PORT). IW=INDIRECT WASTE. HD=HUB DRAIN. FS=FLOOR SINK. UNO=UNLESS NOTED OTHERWISE.
E) WHERE "FLEX" IS CALLED FOR PROVIDE A SIX FOOT COILED LENGTH OF FOOD GRADE FLEXIBLE REINFORCED PLASTIC TUBING FROM THE ROUGH-IN TO THE EQUIPMENT, USING ADAPTERS AND HOSE CLAMPS AS REQUIRED.

A1 | PLUMBING EQUIPMENT LIST AND CONNECTION SCHEDULE

W — SANITARY WASTE (W)
SW — GREASE WASTE (SW)
CW — COLD WATER (CW)
HWS — HOT WATER SUPPLY (HWS)
HWR — HOT WATER RETURN (HWR)
TWS — TEMPERED WATER SUPPLY (TWS)
FW/NSFW — FILTERED WATER (FW) / NON-SILOPHOS FILTERED WATER (NSFW)
ROW — REVERSE OSMOSIS WATER (ROW)
MCW — MULTIPLEX CHILLED WATER (MCW)
PW — POWER WASH LINE (PW)
C — CONDENSATE LINE
V — PLUMBING VENT (V)
SANITARY WASTE (W) OR STORM WATER (ST) - BELOW SLAB/GRADE
SANITARY WASTE (W) OR STORM WATER (ST) - ABOVE SLAB/GRADE
PIPE TURNING UP/DOWN PIPE
UNION
BALL VALVE
CSV — CIRCUIT SETTER TYPE BALANCING VALVE
CV — "CV" CHECK VALVE (DIRECTION OF FLOW)
* — FIXTURE OR EQUIPMENT IDENTIFICATION
* — PLAN NOTE

AFF / AFG	ABOVE FINISHED FLOOR/GRADE
IW	INDIRECT WASTE
VTR	VENT THRU ROOF
AAV	AIR ADMITTANCE VALVE
CO	CLEANOUT
WCO	WALL CLEANOUT
FFCO/FGCO	FINISHED FLOOR/GRADE CLEANOUT
FD	FLOOR DRAIN (SQUARE SCORIATION COVER)
RI	ROUGH-IN
OC	ON CENTERS
BFP	BACKFLOW PREVENTER
EMS	ENERGY MANAGEMENT SYSTEM (RE: GT EMS INSTALL DRAWINGS.)
BV	BALANCE VALVE
SW	SOFTENED WATER
NO	NORMALLY OPEN
NC	NORMALLY CLOSED

H13 | PLUMBING SYMBOLS LEGEND

1. SPECIFICATIONS: RE: PLUMBING SPECIFICATIONS FOR FURTHER INFORMATION AND REQUIREMENTS FOR CONTRACTOR.
2. QUIKTRIP EQUIPMENT CONTRACTOR. REFER TO OTHER PORTIONS OF PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT ITEMS FURNISHED AND WORK PERFORMED BY QUIKTRIP EQUIPMENT CONTRACTOR. VERIFY ROUGH-IN AND CONNECTION REQUIREMENTS WITH OWNER REPRESENTATIVE.
3. HEALTH DEPARTMENT: COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS. OMIT ESCUTCHEONS IN FOOD SERVICE AREAS, SEAL PIPES NEATLY WITH GROUT AT WALL, FLOOR, OR CEILING PENETRATIONS. OMIT INSULATION ON EXPOSED PIPING BEHIND AND UNDER EQUIPMENT. PROVIDE CLEARANCE BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HD, WHEREVER POSSIBLE. INSTALL PIPING IN FOOD SERVICE AREAS CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
4. WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO THE OWNER.
5. MAKE COMPLETE: PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT; TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC. PROVIDE AND CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
6. BACKFLOW PREVENTION: PROVIDE BACKFLOW PREVENTERS (BFP) IN WATER LINES ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF TYPE (VACUUM BREAKER, DOUBLE CHECK, REDUCED PRESSURE) AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES, ONLY IN LOCATIONS REQUIRED.
7. TRAP PRIMERS: PROVIDE TRAP PRIMERS ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE PRECISION PLUMBING PRODUCTS OR APPROVED EQUIVALENT TRAP PRIMER VALVE, INSTALLED IN AN EXPOSED BUT UNOBJECTIONABLE LOCATION, OR ABOVE THE CEILING. PROVIDE A CONTINUOUS LENGTH OF 1/2" SOFT COPPER TUBE FROM PRIMER TO TRAP, SLOPING TO TRAP. PROVIDE ELASTOMERIC INSULATION ON PIPE INSTALLED BELOW FLOOR SLAB. USE PRECISION PLUMBING PRODUCTS DISTRIBUTION UNITS TO CONNECT MORE THAN ONE FLOOR SINK TO ONE PRIMER.
8. ALL UNDERSLAB WATER PIPING SHALL BE TYPE "K" WATER ANNEALED COPPER TUBING OR PEX WITH INSULATION PER SPEC. NO JOINTS PERMITTED UNDER SLAB.
9. ALL INTERIOR CLEANOUTS TO BE CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED.
   - FINISHED FLOOR: JOSAM #56000-1-SQ CAST IRON, HUB OUTLET WITH GASKET, AND SQUARE SECURED NICKEL BRONZE SCORIATED COVER.
   - WALL: JOSAM #58600-CO STAINLESS STEEL ACCESS PLATE TYPE.
11. PLUMBING CONTRACTOR TO USE A COMPLETE SYSTEM OF PVC OR ABS DWV DRAIN, WASTE, AND VENT PIPING FOR ALL WASTE, INDIRECT DRAIN, VENT AND CONDENSATE PIPING.
12. ALL PIPING & CONDUIT TRENCHES ENTERING THE BUILDING TO BE FILLED WITH CLAY OF FLOWABLE FILL.
13. WATER SERVICE: PLUMBING CONTRACTOR TO VERIFY EXISTING WATER PRESSURE PRIOR TO CONSTRUCTION. WATER PRESSURE AT BUILDING ENTRANCE PRIOR TO THE BACKFLOW PREVENTER DETERMINES PRESSURE BOOSTER REQUIREMENTS. REFER TO CRITERIA ON SHEET A6-P102.

A13 | GENERAL NOTES

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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PLUMBING SCHEDULES & NOTES

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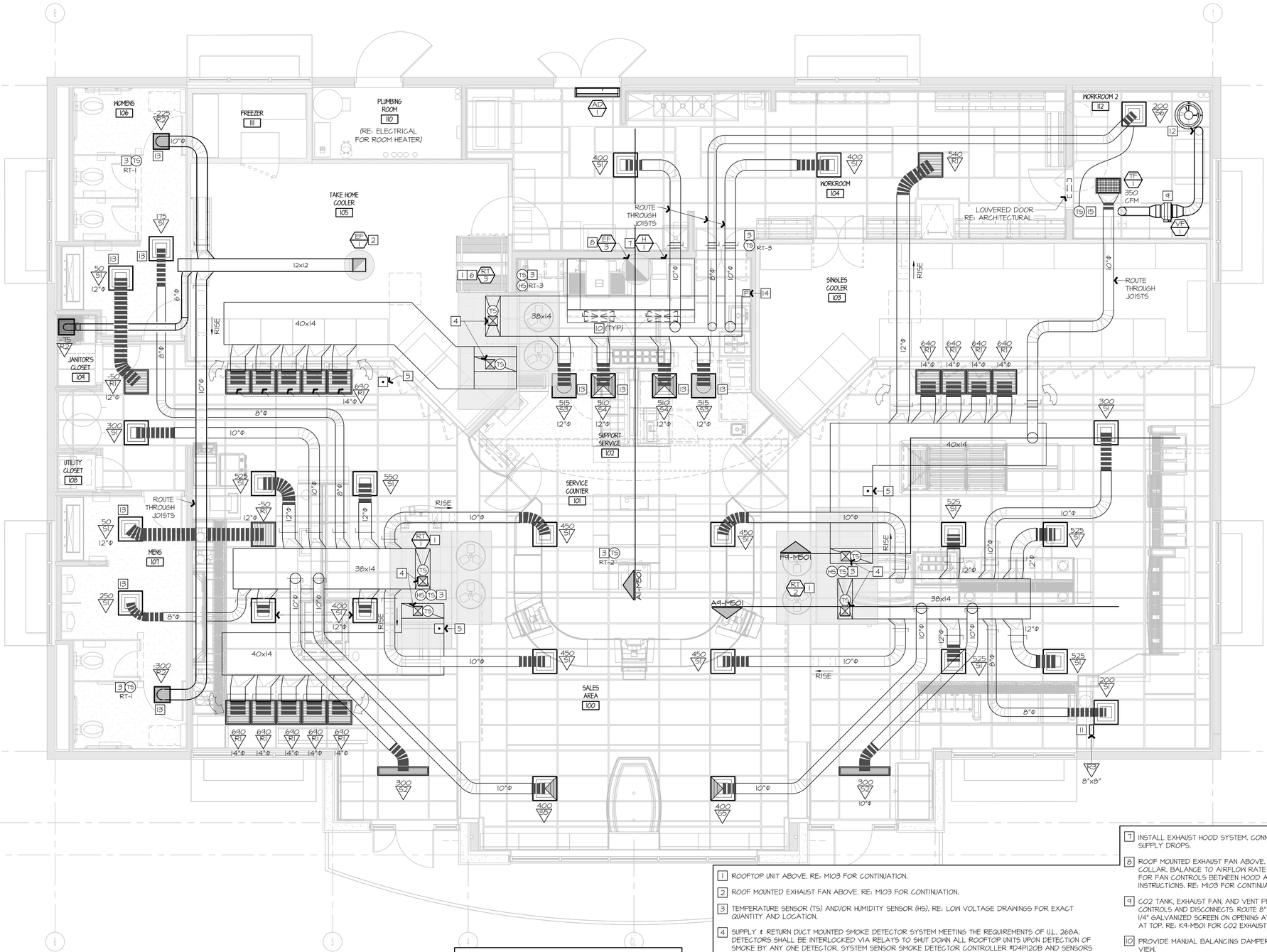

OWNER RESPONSIBLE FOR INITIAL START UP OF RTU'S. COORDINATE WITH QT REPRESENTATIVE FOR LATEST CONTACT INFORMATION TO SECHEDULE START UP. ONE WEEK NOTIFICATION REQUIRED.

STARTUP REQUIREMENTS:
1. PERMANENT POWER
2. SUPPLY TEMP SENSORS INSTALLED IN DUCTWORK

HOLD TOP OF DUCTWORK TO UNDERSIDE OF STRUCTURE WHEREVER POSSIBLE, ALLOWING ADEQUATE SPACE FOR DUCT WRAP INSULATION PER SPECS.

PAINT INSIDE OF HARD DUCTS OR PLENUMS BLACK WHERE VISIBLE THROUGH GRILLE FACE.

ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPER INSTALLED AS INDICATED ON DRAWINGS. HANDLE SHALL BE ACCESSIBLE AND BE CAPABLE OF OPENING OR CLOSING FULLY. PROVIDE RECTANGULAR DAMPERS TYPICAL OF RUSKIN MD35. PROVIDE ROUND DAMPERS TYPICAL OF RUSKIN MDRS25 WITH 2" STAND-OFF BRACKET. RE: SPECS.
RE: DIFFUSER CONNECTION DETAIL M1-M501.

1. ROOFTOP UNIT ABOVE. RE: M103 FOR CONTINUATION.
2. ROOF MOUNTED EXHAUST FAN ABOVE. RE: M103 FOR CONTINUATION.
3. TEMPERATURE SENSOR (TS) AND/OR HUMIDITY SENSOR (HS). RE: LOW VOLTAGE DRAWINGS FOR EXACT QUANTITY AND LOCATION.
4. SUPPLY & RETURN DUCT MOUNTED SMOKE DETECTOR SYSTEM MEETING THE REQUIREMENTS OF U.L. 268A. DETECTORS SHALL BE INTERLOCKED VIA RELAYS TO SHUT DOWN ALL ROOFTOP UNITS UPON DETECTION OF SMOKE BY ANY ONE DETECTOR. SYSTEM SENSOR SMOKE DETECTOR CONTROLLER #D4PI20B AND SENSORS #D45B.
5. AAON SHALL FURNISH ANNUNCIATOR/REMOTE TEST STATION COMBO MODEL RTS-2A05 MULTI-SIGNALING DEVICE WITH STROBE, ONE PER EACH RTU, COMPATIBLE WITH 4-WIRE CONVENTIONAL DUCT SMOKE DETECTORS FOR VISIBLE AND AUDIBLE ALARM SIGNAL, VISIBLE TROUBLE SIGNAL, AND REMOTE TESTING. CONTRACTOR SHALL INSTALL ANNUNCIATORS AND PROVIDE ALL CONTROL WIRING AND RELAYS BETWEEN SMOKE DETECTORS AND RESPECTIVE ANNUNCIATORS. MOUNT ANNUNCIATORS ON ROOM SIDE OF CEILING. LABEL EACH WITH THE NAME OF THE UNIT AND DETECTOR IT SERVES AS FOLLOWING:
   "RTU-1 SUPPLY / RETURN AIR DUCT DETECTOR TROUBLE"
   "RTU-2 SUPPLY / RETURN AIR DUCT DETECTOR TROUBLE"
   "RTU-3 SUPPLY / RETURN AIR DUCT DETECTOR TROUBLE"
6. INTERLOCK RTU VIA RELAY TO HOOD CONTROL PANEL. RTU SHALL SHUT DOWN UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM.
7. INSTALL EXHAUST HOOD SYSTEM. CONNECT PERFORATED SUPPLY PLENUM TO SUPPLY DUCT WITH (2) 28"X10" SUPPLY DROPS.
8. ROOF MOUNTED EXHAUST FAN ABOVE. INSTALL 12" GREASE DUCT TO ROOF MOUNTED FAN. EXTEND HOOD COLLAR. BALANCE TO AIRFLOW RATE SCHEDULED ON M601. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FAN CONTROLS BETWEEN HOOD AND FAN. RE: QT INSTALL DRAWINGS AND HOOD MANUFACTURER'S INSTRUCTIONS. RE: M103 FOR CONTINUATION.
9. CO2 TANK, EXHAUST FAN, AND VENT PIPING. MOUNT VENTILATION FAN TO ALLOW FOR CEILING ACCESS TO CONTROLS AND DISCONNECTS. ROUTE 8" DUCT, PAINTED TO MATCH WALL. TERMINATE 8" DUCT @ 12" AFF WITH 1/4" x 1/4" GALVANIZED SCREEN ON OPENING AT THE BOTTOM. PROVIDE GOOSENECK WITH 1/4" x 1/4" GALVANIZED SCREEN AT TOP. RE: K9-M501 FOR CO2 EXHAUST DUCTWORK DETAIL. RE: A1-M601 FOR FAN SCHEDULE.
10. PROVIDE MANUAL BALANCING DAMPER AT SUPPLY DROPS BALANCED AT 515 CFM. RE: A1-M501 FOR SECTION VIEW.
11. PROVIDE TRANSFER GRILLE MOUNTED @ 12" AFF TO TOP OF GRILLE, AND CENTERED IN ACCESS DOOR BETWEEN FOUNTAIN WALL AND FREEZON SPACE.
12. PROVIDE 8" BACKDRAFT DAMPER LOCATED IN VERTICAL DUCT @ 9'-6" TO TOP OF DAMPER. PROVIDE DUCT CLAMP FITTING OR COUPLING TO TEMPORARILY REMOVE DUCT WITHIN SPACE FOR CLEANING/MAINTENANCE OF EQUIPMENT IN THIS AREA.
13. RE: E504 FOR EXACT GRILLE/DIFFUSER LOCATIONS WITHIN HARD CEILINGS.
14. INSTALL HOOD SUPPRESSION PUSH STATION. RE: F11-E501 FOR ELEVATION.
15. PROVIDE VAV DIFFUSER WITH ROOM THERMOSTAT. DAMPER TO CLOSE WHEN ROOM TEMPERATURE EXCEEDS 85 DEGREES.

A1 MECHANICAL DUCTWORK FLOOR PLAN
3/4" = 1'-0"

NORTH

A9 PLAN NOTES

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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MECHANICAL DUCTWORK FLOOR PLAN

SHEET NUMBER:
M101

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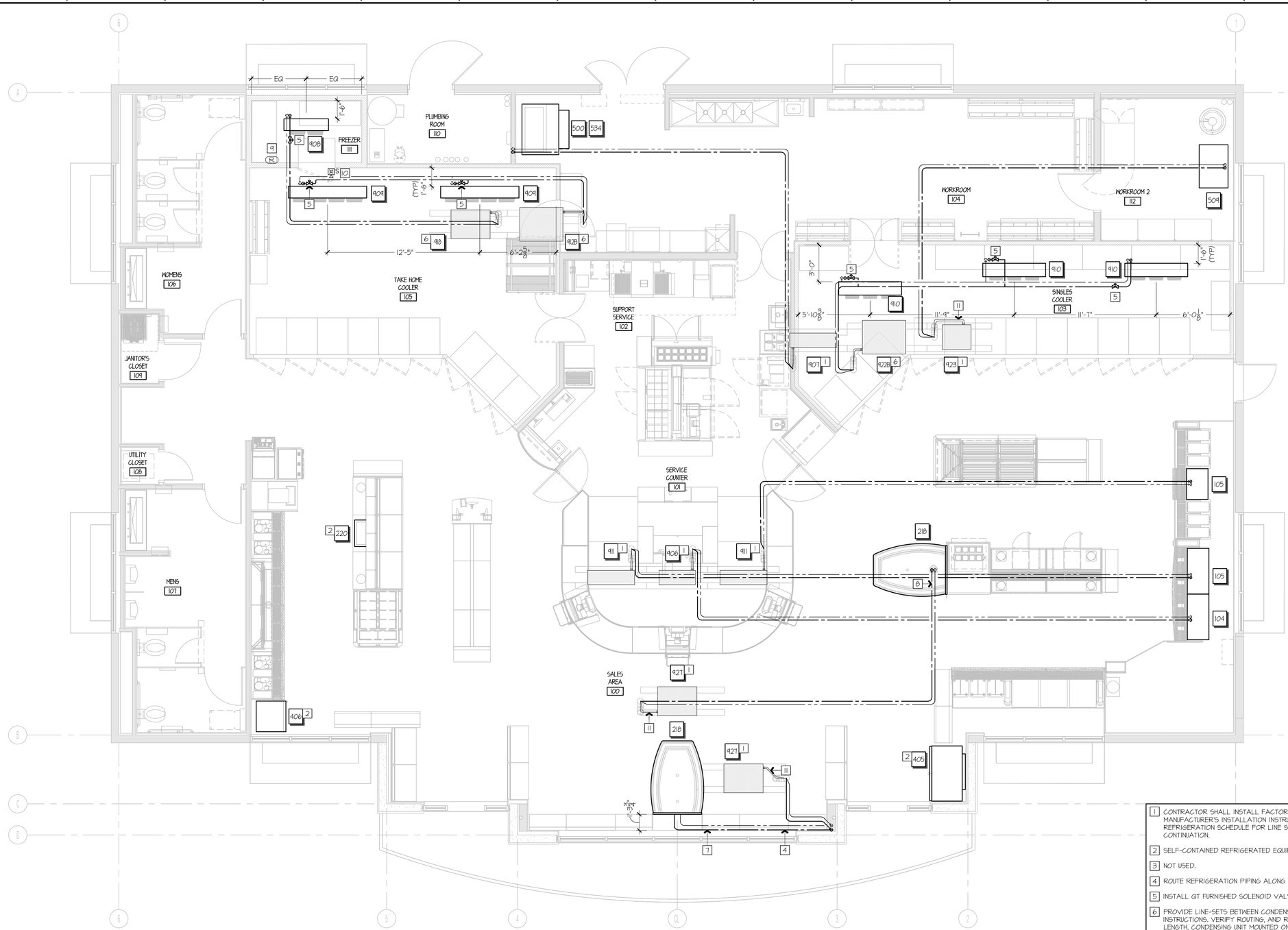

PROVIDE P-TRAPS ON SUCTION RISERS PER DETAIL E12-M502.

HOLD REFRIGERATION PIPING AS HIGH AS POSSIBLE ALLOWING ADEQUATE SPACE FOR TRAPS, HANGERS, PROPER SLOPING, AND PIPE INSULATION.

CONTRACTOR SHALL INSULATE ALL LINE SET SUCTION AND LIQUID LINES WITH 1" PIPE INSULATION WITH FIELD-APPLIED **ARMAFLEX HB FINISH** UV PROTECTION ON ALL EXPOSED SEGMENTS PER SPECIFICATIONS.

1. CONTRACTOR SHALL INSTALL FACTORY FURNISHED LINE-SETS BETWEEN CONDENSING UNIT AND APPLIANCE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY ROUTING, AND REFRIGERANT CHARGE. RE: REFRIGERATION SCHEDULE FOR LINE SET LENGTH. CONDENSING UNIT MOUNTED ON ROOF. RE: M103 FOR CONTINUATION.
2. SELF-CONTAINED REFRIGERATED EQUIPMENT SHOWN FOR REFERENCE.
3. NOT USED.
4. ROUTE REFRIGERATION PIPING ALONG FACE OF WALL TO FLOOR COOLER.
5. INSTALL QT FURNISHED SOLENOID VALVE ON REFRIGERATION LINE FOR ALL EVAPORATORS.
6. PROVIDE LINE-SETS BETWEEN CONDENSING UNIT AND APPLIANCE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY ROUTING, AND REFRIGERANT CHARGE. RE: REFRIGERATION SCHEDULE FOR LINE SET LENGTH. CONDENSING UNIT MOUNTED ON ROOF. RE: M103 FOR CONTINUATION.
7. INSTALL QT-FURNISHED HEAT EXCHANGER ON COOLER REFRIGERATION LINES HORIZONTALLY ALONG THE WALL IN THIS VICINITY. RE: QT INSTALL DRAWINGS.
8. INSTALL QT-FURNISHED HEAT EXCHANGER ON COOLER REFRIGERATION LINES ABOVE CEILING IN THIS VICINITY. RE: QT INSTALL DRAWINGS.
9. INSTALL REFRIGERANT LEAK SENSOR INSIDE FREEZER BOX AT 14" AFF. RE: P9-M602 FOR MORE INFORMATION.
10. INSTALL HORN/STROBE AT 80" AFF ON THE OUTSIDE OF FREEZER. INSTALL ASSOCIATED SILENCE BUTTON AT 48" AFF. PROVIDE SIGNAGE THAT READS, "REFRIGERATION LEAK DETECTION. DO NOT ENTER FREEZER IF FLASHING." RE: LOW VOLTAGE DRAWINGS FOR MORE INFORMATION.
11. INSTALL EPR VALVE FURNISHED WITH EQUIPMENT ON THE SUCTION LINE CONNECTION TO THE CONDENSING UNIT.

A1 — MECHANICAL PIPING FLOOR PLAN
3/4" = 1'-0"

NORTH

A13 — PLAN NOTES

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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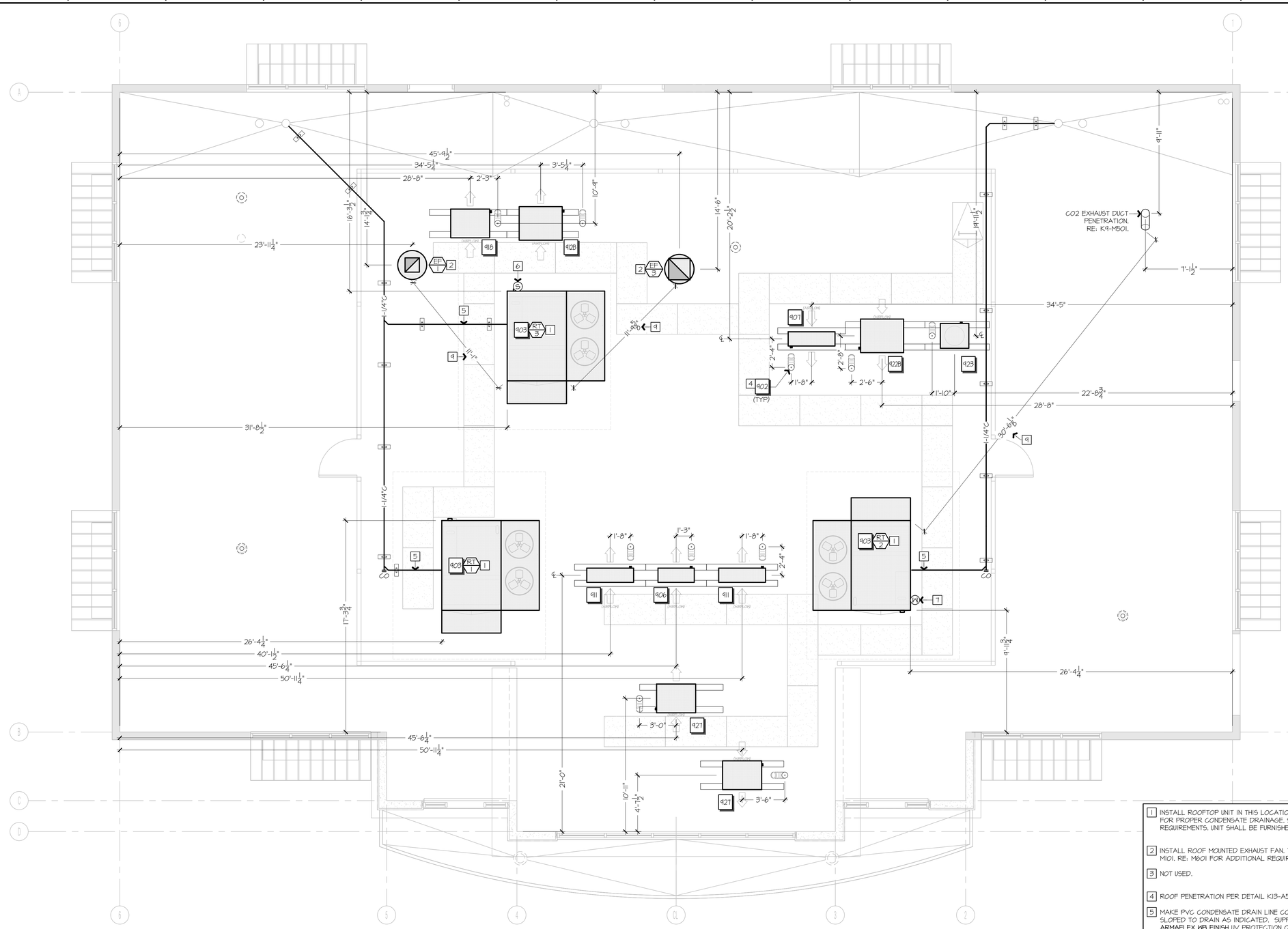
SHEET TITLE:
MECHANICAL PIPING FLOOR PLAN

SHEET NUMBER:
M102



1. INSTALL ROOFTOP UNIT IN THIS LOCATION. COORDINATE UNIT WITH STRUCTURE. INSTALL UNIT AND CURB LEVEL FOR PROPER CONDENSATE DRAINAGE. SEE ROOFTOP UNIT SCHEDULE ON SHEET M601 FOR ADDITIONAL REQUIREMENTS. UNIT SHALL BE FURNISHED BY QT. RE: DETAIL A1-A520 FOR CURB ROOFING DETAIL.
2. INSTALL ROOF MOUNTED EXHAUST FAN. TRANSITION DUCT FROM FAN CURB DOWN TO DUCT SIZE INDICATED ON M101. RE: M601 FOR ADDITIONAL REQUIREMENTS.
3. NOT USED.
4. ROOF PENETRATION PER DETAIL K13-A520. SEAL WITH FOAM AFTER POWER AND REF. LINES ARE COMPLETE.
5. MAKE PVC CONDENSATE DRAIN LINE CONNECTION TO RTU, USE P-TRAPS FURNISHED WITH UNIT, ROUTE LINES SLOPED TO DRAIN AS INDICATED. SUPPORT PIPING ON 10' MAX CENTERS PER SPECS. PROVIDE FIELD-APPLIED ARMAFLEX MB FINISH UV PROTECTION ON ALL EXPOSED SEGMENTS.
6. QT IRRIGATION WEATHERMATIC SENSOR MOUNTED TO RTU. RE: IRRIGATION DRAWINGS.
7. QT WEATHER STATION MOUNTED TO RTU PER EMS. RE: A9-M501.
8. NOT USED.

a. MAINTAIN MIN 10'-0" SEPARATION BETWEEN ALL EXHAUST FANS AND RTU INTAKES. (TYP)

A1 MECHANICAL ROOF PLAN
3/4" = 1'-0"

NORTH

A13 PLAN NOTES

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Lee's Summit, Missouri
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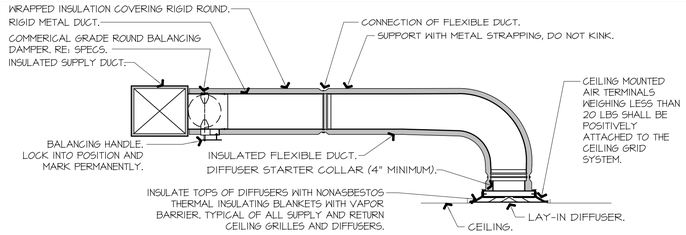
MECHANICAL ROOF PLAN

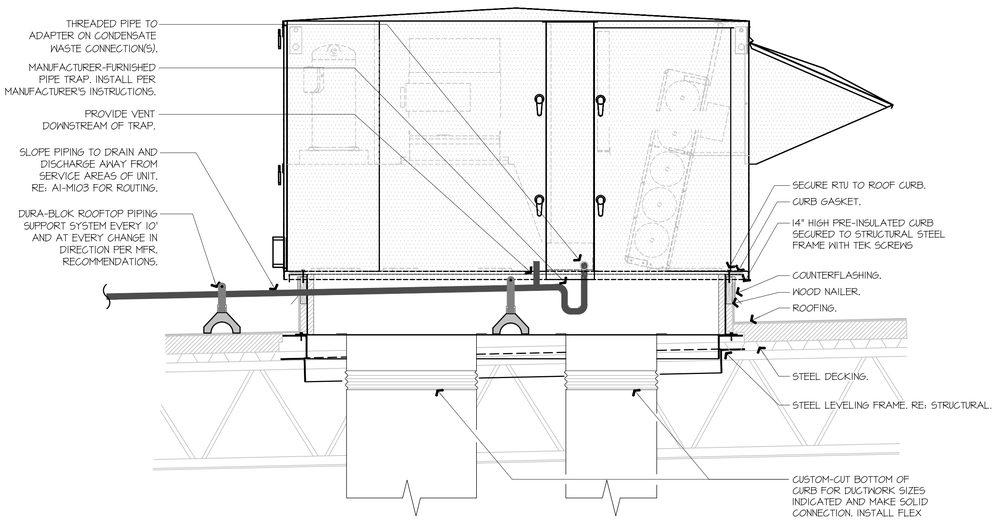
SHEET NUMBER:
M103



NOTES:
1. PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAWBAND WITH AN ADDITIONAL DRAWBAND.
2. PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
3. PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEX DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
4. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE FIBER REINFORCED FOIL BACKED TAPE FOR INSULATION OVERLAP.

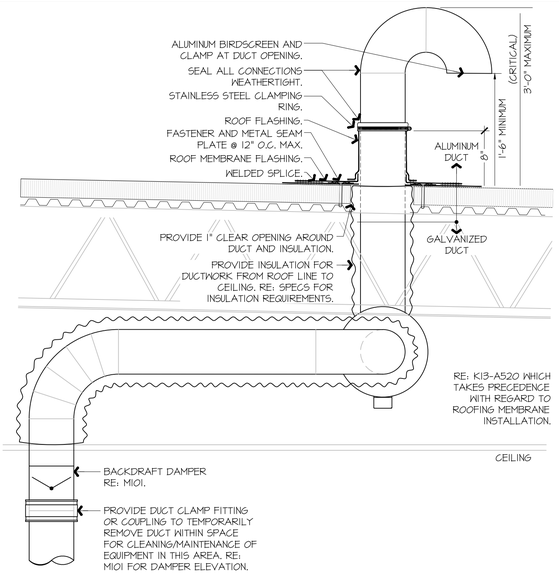
M1 DIFFUSER CONNECTION DETAIL

NOT TO SCALE | A1-M101



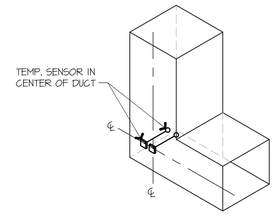
F1 ROOFTOP UNIT CURB DETAIL

NOT TO SCALE | A1-M501, A9-M501, F9-M501, A4-S510, A1-A520



K9 CO2 EXHAUST DUCTWORK

NOT TO SCALE | A1-M101, A1-M103

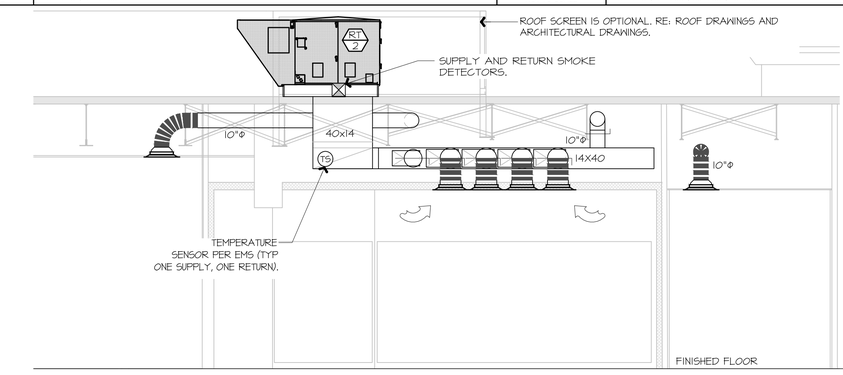


NOTES:
- DETAIL APPLIES FOR BOTH SUPPLY DUCT SENSORS.
- SUPPLY AIR SENSORS WILL TERMINATE AT RESPECTIVE ROOF TOP UNITS.
- (1) SENSOR TO TERMINATE AT THE 88A0 BOARD, INPUT #2
- (1) SENSOR TO TERMINATE AT THE LVTB TERMINALS G&1&7
- RETURN AIR SENSORS ARE FACTORY MOUNTED AND TERMINATED.

(RE: QT EMS DRAWINGS FOR MORE INFORMATION)

K13 HVAC SUPPLY TEMPERATURE SENSOR - ISO

NOT TO SCALE | A1-M101, A1-M501, A9-M501, F9-M501



F9 ROOFTOP SECTION THROUGH RETURN

3/4" = 1'-0" | A1-M101

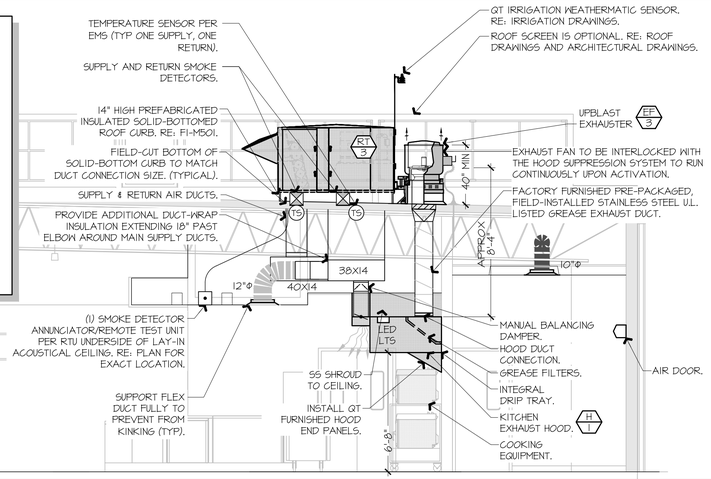
GENERAL NOTES:

HOOD TO BE A TYPE-I SYSTEM COMPLETE WITH FIRE SUPPRESSION SYSTEM, FIRE-WRAPPED DUCT, AND SHUT DOWN CONTROL ON UNDER-HOOD APPLIANCES.

- OVENTION "SHUTTLE" OVEN:
  INTERNAL CATALYTIC FILTRATION TO LIMIT SMOKE, GREASE, AND ODOR EMISSIONS.
  UL197 (KNLZ) LISTED FOR VENTLESS OPERATION
  EPA202 TESTED FROM SECTION 54 OF UL710B.
- CONVOTHERM "EASYTOUCH" COMBI OVEN:
  UL LISTED TO GUIDES KNLZ AND CONFORMS TO VENTLESS OPERATION RECOMMENDATIONS SET FORTH BY NFPA 96 USING EPA METHOD 202 TESTING.

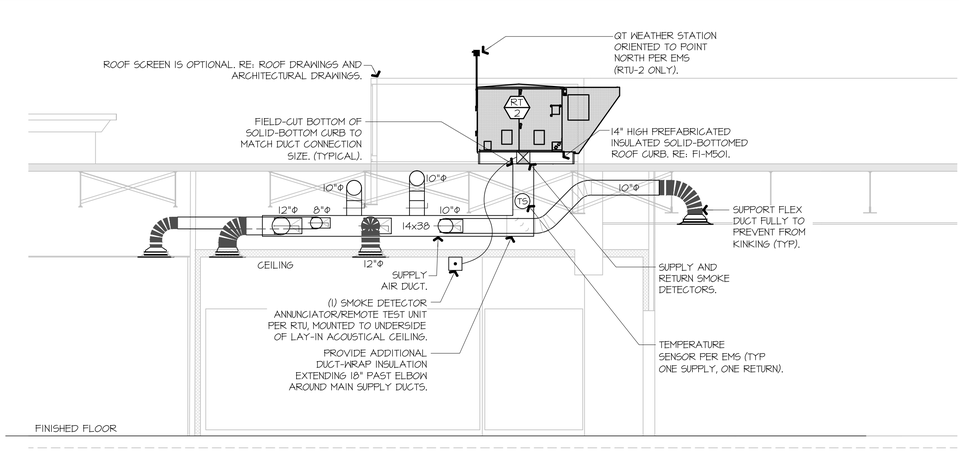
CURRENT TRANSFORMERS AT EQUIPMENT UNDER HOOD TO CONTROL ROOF EXHAUST FAN & INTERLOCK WITH BUILDING HVAC SYSTEM TO PROVIDE MAKE-UP-AIR.

LAYOUT SHOWN IS SCHEMATIC AND INTENDED TO SHOW GENERAL REQUIREMENTS. RE: PLANS AND ADDITIONAL HOOD DETAILS FOR MORE INFORMATION.



A1 ROOFTOP SECTION THROUGH SERVICE COUNTER

3/4" = 1'-0" | A1-M101



A9 ROOFTOP SECTION THROUGH SUPPLY

3/4" = 1'-0" | A1-M101

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MECHANICAL SECTIONS & DETAILS

SHEET NUMBER:
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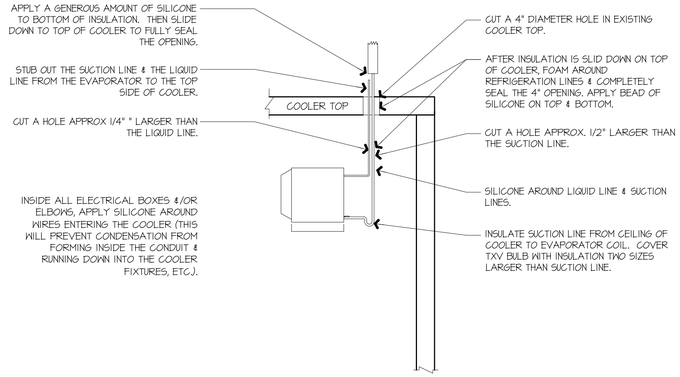
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

K1 NOT USED

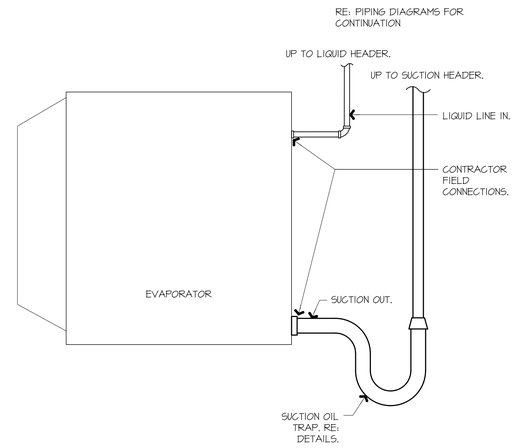
K7 PIPE PENETRATION THROUGH COOLER BOX DETAIL

NOT TO SCALE



K13 COOLER EVAPORATOR COIL PIPING

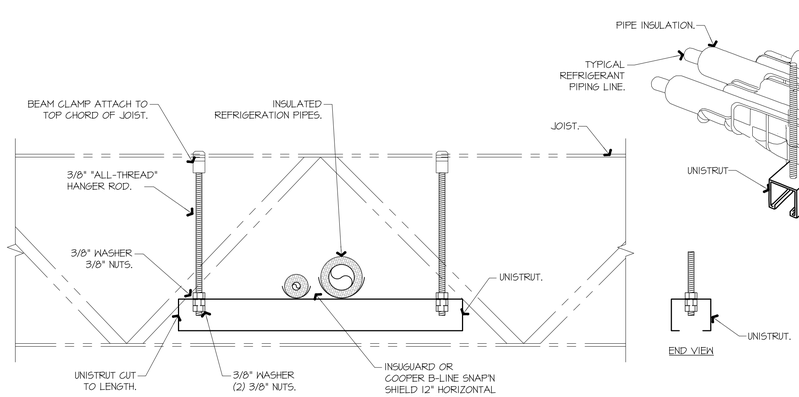
NOT TO SCALE



E1 NOT USED

E4 REFRIGERATION PIPE HANGER DETAIL THROUGH JOISTS

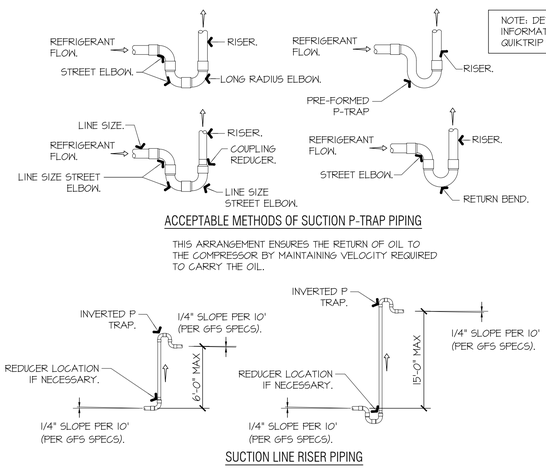
NOT TO SCALE



E12 SUCTION RISERS AND P-TRAP PIPING

NOT TO SCALE

NOTE: DETAIL DRAWING IS INFORMATIONAL AND IS NOT QUIKTRIP SPECIFIC.



ACCEPTABLE METHODS OF SUCTION P-TRAP PIPING

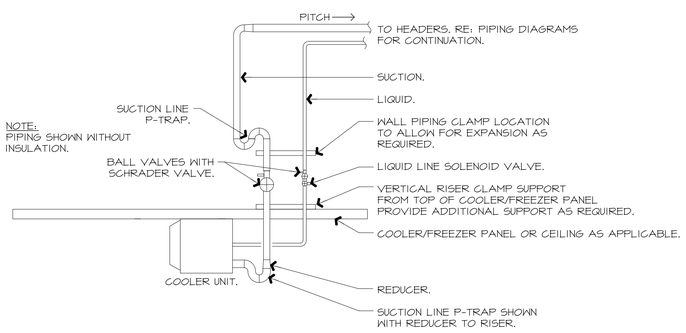
THIS ARRANGEMENT ENSURES THE RETURN OF OIL TO THE COMPRESSOR BY MAINTAINING VELOCITY REQUIRED TO CARRY THE OIL.

SUCTION LINE RISER PIPING

A1 NOT USED

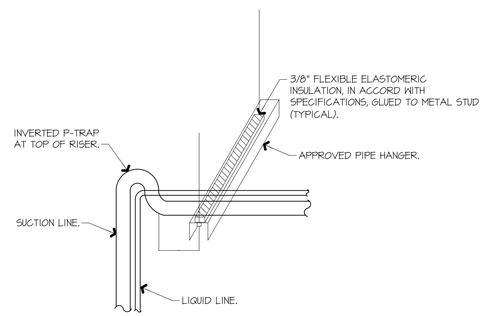
A7 UNIT COOLER SUCTION & LIQUID TYPICAL BRANCH PIPING DETAIL

NOT TO SCALE



A12 TOP OF RISER DETAIL

NOT TO SCALE



STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M502

EXHAUST AND AIR BALANCE SCHEDULE

CODE: INTERNATIONAL MECHANICAL CODE - CHAPTER 4, TABLE 403.3.1.1

	NUMBER OF FIXTURES	EXHAUST PER FIXTURE CFM	CODE EXHAUST CFM	MINIMUM DESIGNED CFM	IDLE DESIGNED CFM	MAXIMUM DESIGNED CFM
RT-1 OUTSIDE AIR	-	-	-	300	525	750
RT-2 OUTSIDE AIR	-	-	-	300	525	750
RT-3 OUTSIDE AIR	-	-	-	300	525	750
EF-1 RR/JANITOR EXHAUST	7	50	350	-600	-600	-600
EF-3 KITCHEN EXHAUST HOOD	-	-	-	0	-675	-1350
BUILDING PRESSURE:				300	300	300

ROOFTOP AIR HANDLING UNIT SCHEDULE

RT #	MANUFACTURER	MODEL NUMBER	SUPPLY FAN CFM	SUPPLY FAN ESP IN WG	SUPPLY FAN HP	OUTSIDE AIR CFM MIN / MAX	COOLING TOTAL MBH	COOLING SENS MBH	COOLING EAT DB/WB F	COOLING LAT DB/WB F	HEATING TYPE	HEATING INPUT KW	HEATING OUTPUT MBH	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	IEER	NOTES
RT-1	AAON	RNA-013	4,200	1.25	3.0	300 / 750	151	111	80/67	55/55	ELEC	37.6 KW	128	208/3	144	150	14.9	
RT-2	AAON	RNA-013	4,200	1.25	3.0	300 / 750	151	111	80/67	55/55	ELEC	37.6 KW	128	208/3	144	150	14.9	
RT-3	AAON	RNA-013	4,200	1.25	3.0	300 / 750	151	111	80/67	55/55	ELEC	37.6 KW	128	208/3	144	150	14.9	

GENERAL NOTES (APPLY TO ALL THE ABOVE):

A) UNITS SHALL BE OWNER-FURNISHED, CONTRACTOR-INSTALLED AS SPECIFIED ABOVE. NO SUBSTITUTIONS WILL BE ALLOWED.
B) UNITS SHALL BE CONTROLLED BY BUILT-IN TEMPORARY CONSTRUCTION-MODE THERMOSTAT AND SWITCHED OVER TO BUILDING ENERGY MANAGEMENT SYSTEM DURING EMS COMMISSIONING - RE: QT EMS INSTALL DRAWINGS.
C) UNITS SHALL CONTAIN FACTORY MOUNTED AND INTERLOCKED REFRIGERANT LEAK SENSOR, RETURN AIR SMOKE DETECTOR, AND SMOKE DETECTOR CONTROLLER. MANUFACTURER FURNISHED SUPPLY AIR SMOKE DETECTOR AND ANNUNCIATOR/REMOTE TEST STATION SHALL BE FIELD INSTALLED/WIRED BY CONTRACTOR.
D) UNITS SHALL HAVE MODULATING ECONOMIZER WITH SENSIBLE LIMIT & 2ND MIN POSITION POTENTIOMETER. SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE.
E) UNITS SHALL BE FURNISHED WITH INSULATED PREFABRICATED 14" HIGH ROOF CURBS WITH SOLID BOTTOM PANEL.
F) UNITS SHALL BE FURNISHED WITH FACTORY-INSTALLED NON-FUSED DISCONNECT SWITCH.
G) UNITS SHALL HAVE MODULATING HOT GAS REHEAT AND MODULATING COMPRESSORS.
H) UNITS SHALL HAVE DIRECT-DRIVE BLOWER WITH VFD CONTROL.
I) UNITS SHALL UTILIZE R-454B REFRIGERANT.
J) UNITS SHALL BE FURNISHED WITH FACTORY MOUNTED, FIELD-WIRED CONVENIENCE OUTLET.
K) CONTRACTOR SHALL PERFORM AAON STARTUP PROCEDURES FOR ALL UNITS AND COORDINATE WITH QT REP FOR CONTROLS & COMMISSIONING.
L) RE: THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
M) UNITS SHALL BE FURNISHED WITH 35K SCCR RATING.

VENTILATION SCHEDULE

CODE: INTERNATIONAL MECHANICAL CODE - CHAPTER 4, TABLES 403.3.1.1, 403.3.1.1.1.2 AND 403.3.1.1.2.3.2

ZONE INFORMATION: ROOM NUMBER	ROOM NAME	ZONE AREA AZ (SF)	OCCUPANCY: OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000SF)	ZONE POPULATION PZ (# PEOPLE)	VENTILATION AIR CALCULATION: OCCUPANT OA AIRFLOW RP (CFM/OCC)	AREA OA AIRFLOW RA (CFM/SF)	OCCUPANT OA AIRFLOW CFM	AREA OA AIRFLOW CFM	BREATHING ZONE OA VBZ (CFM)	DISTRIBUTION EFFECTIVENESS EZ	ZONE OA VOZ (CFM)	PRIMARY AIRFLOW VPZ (CFM)	PRIMARY OA FRACTION ZP	MINIMUM DESIGNED OA (CFM)
RTU-1															
100	SALES AREA LEFT	1,167	SUPERMARKET	8	9	7.5	0.06	68	70	138	0.8	172	3,775	4.55%	230
106	WOMENS RESTROOM	188	RESTROOM					0	0	0	0.8	0	175	0.00%	13
107	MENS RESTROOM	168	RESTROOM					0	0	0	0.8	0	250	0.00%	18
108,109	UTILITY/JANITORS CLOSET	27	CORRIDOR/UTILITY								0.8	0		0.0%	
	Totals:				9			68	70	138	0.8	172	4,200	4.6%	300
	SYSTEM POPULATION (PS):				9							SYSTEM VENTILATION EFFICIENCY (EV):		1.0	-
	OCCUPANT DIVERSITY (D):				1.00							UNCORRECTED OA INTAKE (VOU) CFM:		172	-
												OUTDOOR INTAKE FLOW (VOT) CFM:		172	300
												OUTDOOR INTAKE FLOW %:		4.1%	7.1%
RTU-2															
100	SALES AREA RIGHT	1,403	SUPERMARKET	8	11	7.5	0.06	83	84	167	0.8	208	4,200	4.96%	300
	Totals:				11			83	84	167	0.8	208	4,200	5.0%	300
	SYSTEM POPULATION (PS):				11							SYSTEM VENTILATION EFFICIENCY (EV):		1.0	-
	OCCUPANT DIVERSITY (D):				1.00							UNCORRECTED OA INTAKE (VOU) CFM:		208	-
												OUTDOOR INTAKE FLOW (VOT) CFM:		208	300
												OUTDOOR INTAKE FLOW %:		5.0%	7.1%
RTU-3															
102	SUPPORT SERVICE	365	KITCHEN	20	7	7.5	0.12	53	44	96	0.8	120	3,200	3.8%	229
104	WORKROOM	667	SHIPPING/RECEIVING	2	2	10.0	0.12	20	80	100	0.8	125	1,000	12.5%	71
	Totals:				9			73	124	196	0.8	245	4,200	12.5%	300
	SYSTEM POPULATION (PS):				9							SYSTEM VENTILATION EFFICIENCY (EV):		1.0	-
	OCCUPANT DIVERSITY (D):				1.00							UNCORRECTED OA INTAKE (VOU) CFM:		245	-
												OUTDOOR INTAKE FLOW (VOT) CFM:		245	300
												OUTDOOR INTAKE FLOW %:		5.8%	7.1%

AIR DOOR SCHEDULE

AD #	MANUFACTURER	MODEL NUMBER	SUPPLY FAN CFM	SUPPLY FAN MAX VELOCITY FPM	NOZZLE WIDTH	ELECTRICAL (NO HEAT) V/PH	ELECTRICAL (NO HEAT) AMPS	WEIGHT	NOTES
AD-1	BERNER	CLC08-1042AA-R	1,180	3,340	40.6	120/1	3.4	45	1,2,3,4

NOTES:

1) AIR DOORS SHALL BE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
2) INSTALL WITH WALL MOUNTING HARDWARE AND EVEN WITH TOP OF DOOR OPENING.
3) AIR DOOR SHALL BE FURNISHED WITH BASIC 24 VOLT CONTROL PACKAGE, INCLUDING 24 VOLT CONTROL TRANSFORMER (FACTORY INSTALLED/WIRED) AND MAGNETIC REED DOOR SWITCH, COLOR BROWN (FIELD INSTALLED/WIRED).
4) AIR CURTAIN MOTOR TO BE WIRED TO SINGLE SPEED (HIGH SPEED). AIR CURTAIN SHALL NOT BE EQUIPPED WITH ANY FACTORY INSTALLED SWITCHES.

FAN SCHEDULE

EF #	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	WATTS	HP	RPM	WEIGHT	V/PH	NOTES
EF-1	CAPTIVEAIRE	DR331HFA	600	0.5"	DIRECT	516 W	0.33	1220	61	120/1	1,2,3,4
TF-1	CAPTIVEAIRE	CFA 500CA	350	0.5"	DIRECT	264 W	0.31	725	35	120/1	1,5
VF-1	CAPTIVEAIRE	DFA-300-CA	600	0.4"	DIRECT	288 W	0.40	2321	12	120/1	1

NOTES:

1) EXHAUST FANS SHALL BE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
2) FAN SHALL HAVE DS-DISCONNECT SWITCH, FAN SPEED CONTROL MOUNTED ACCESSIBLE ON UNIT.
3) FAN SHALL HAVE BS-BIRD SCREEN, BD-BACKDRAFT DAMPER.
4) FAN SHALL HAVE HINGE KIT, SC-PREFABRICATED INSULATED ROOF CURB.
5) INSTALL EXHAUST FAN WITH MANUFACTURER FURNISHED ALUMINUM GRILLE, PLUG DISCONNECT, FAN SPEED CONTROL MOUNTED ACCESSIBLE ON UNIT.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

CFM **	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DESCRIPTION	NOTES
S1	TITUS	TMS-3	SUPPLY	24" X 24"	SEE PLAN	LAY-IN SQUARE CONE DIFFUSER, ALL WHITE.	1
S2	TITUS	TBD1-80	SUPPLY	8" X 48"	SEE PLAN	4-SLOT PLENUM DIFFUSER, ALL WHITE.	2
S3	TITUS	PAR	SUPPLY	24" X 24"	SEE PLAN	PERFORATED DIFFUSER, NO DEFLECTORS, ALL WHITE.	1
S4	TITUS	TMS-3	SUPPLY	24" X 24"	SEE PLAN	LAY-IN SQUARE CONE DIFFUSER, ALL WHITE.	4
S5	TITUS	TMS-3	SUPPLY	24" X 24"	SEE PLAN	LAY-IN SQUARE CONE DIFFUSER, ALL WHITE.	5
S6	TITUS	T35Q-2	SUPPLY	24" X 24"	SEE PLAN	LAY-IN SQUARE CONE VAV DIFFUSER, ALL WHITE.	
R1	TITUS	350RL	RETURN	24" X 24"	SEE PLAN	LAY-IN 3/4" 35° BLADE RETURN GRILLE, ALL WHITE.	1
R2	TITUS	350RL	EXHAUST	16"X16"	14"X14"	3/4" 35° BLADE EXHAUST GRILLE, ALL WHITE.	3
R3	TITUS	350RL	TRANSFER	8"X8"	N/A	3/4" 35° BLADE EXHAUST GRILLE, ALL WHITE.	

NOTES:

1) PROVIDE TRIM RINGS FOR ALL DIFFUSERS OR GRILLES IN GYP. BOARD CEILINGS.
2) (4) 1" SLOTS. ADJUST (2) DIRECTIONAL BLADES CLOSEST TO THE STORE INTERIOR TO DELIVER AIR HORIZONTALLY TOWARDS THE INTERIOR, AND AIM THE OTHER (2) BLADES CLOSEST TO THE PERIMETER TO DELIVER AIR VERTICALLY.
3) PROVIDE PLASTER FRAME IN HARD CEILINGS.
4) PROVIDE DIFFUSER WITH 2-WAY THROW PATTERN AS SHOWN ON PLANS.
5) PROVIDE DIFFUSER WITH 3-WAY THROW PATTERN AS SHOWN ON PLANS.

GENERAL NOTES (APPLY TO ALL THE ABOVE):

A) GRILLES, REGISTERS, AND DIFFUSERS SHALL BE CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED.
B) MAXIMUM NC OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.
C) FOUR-WAY THROW PATTERN FOR SQUARE DIFFUSERS UNLESS SHOWN OTHERWISE.
D) PROVIDE SQUARE-TO-ROUND ADAPTER ON ALL GRILLES AND DIFFUSERS AS REQUIRED PER THE DRAWINGS.
E) PROVIDE NONASBESTOS THERMAL INSULATING BLANKETS WITH VAPOR BARRIER FOR ALL SUPPLY DIFFUSERS AND RETURN GRILLES.
F) REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
G) REFER TO DRAWINGS FOR FURTHER INSTALLATION AND APPLICATION DETAILS.

EXHAUST FAN CONTROL SETTINGS / RTU-1, 2, 3 O/A CONTROL SETTINGS / BALANCE

CONDITION	EXHAUST FAN CFM	PERCENTAGE OF MAX EXHAUST	CONTROL VOLTAGE Vdc *	CONTROL VOLTAGE Vdc *	OUTSIDE AIR CFM	O/A DAMPER POSITION **	BUILDING PRESSURE
HOOD OFF	0	0.0%	0	0	300	300 / (FAN& X 4200)	300
HOOD IDLE	675	50.0%	1	0.5	525	525 / (FAN& X 4200)	300
HOOD MAX	1350	100.0%	10	5	750	750 / (FAN& X 4200)	300

* CONTROL VOLTAGE SIGNAL RECEIVED FROM HOOD CONTROL PANEL
** OA CFM / (SUPPLY FAN& X 4200)

REFRIGERATION EQUIPMENT LIST

TAG ##	DESCRIPTION	MANUFACTURER & MODEL	QUANTITY	LINE SET LENGTH	FURNISHED BY
104	CUBED ICE MAKER	HOSHIZAKI KM-1100MRJ2	1		QT
906	CUBED ICE MAKER CONDENSER UNIT	HOSHIZAKI URC-14FZ	1	55'	QT
105	CRUSHED ICE MAKER	HOSHIZAKI F-2001MRJ2-C	2	-	QT
911	CRUSHED ICE MAKER CONDENSER UNIT	HOSHIZAKI URC-22FZ	2	55'	QT
218	END CAP FLOOR COOLER	OASIS FSE663R	2	-	QT
921	END CAP FLOOR COOLER CONDENSING UNIT	KEEPRITE KEZA035L8-HT3D	2	50'	QT
220	GOLD WELL	THERMELL REFRIGERATION 14ROB	1	-	QT
405	ICE MERCHANDISER	TRUE GDIM-49NT-LD	1	-	QT
406	NOVELTY ICE CREAM FREEZER	TRUE GDM-26-HC-TSL01	1	-	QT
500	ICE BAGGER	FOLLETT #DBI000	1	-	QT
534	ICE MAKER FOR BAGGER	HOSHIZAKI KM-1900SRJ3	1	-	QT
907	ICE MAKER CONDENSER UNIT	HOSHIZAKI URC-22FZ	1	55'	QT
509	MULTIPLEX	MULTIPLEX #50MR04	1	-	QT
923	MULTIPLEX CONDENSING UNIT	MULTIPLEX 15-0845	1	50'	QT
907	NOT USED		-	-	
917	NOT USED		-	-	
908	WALK-IN FREEZER EVAPORATOR	RUSSELL RL6EOTTDDAL	1	-	QT
918	WALK-IN FREEZER CONDENSING UNIT	RUSSELL RFO250L4SEB	1	-	QT
909	TAKE HOME COOLER EVAPORATOR	RUSSELL RL6AI85ADAL	2	-	QT
912B	TAKE HOME COOLER CONDENSING UNIT [110 DEG]	RUSSELL RFO600E4SEB	1	-	QT
910	SINGLES COOLER EVAPORATOR	RUSSELL RL6AI41ADAL	3	-	QT
922B	SINGLES COOLER CONDENSING UNIT [110 DEG]	RUSSELL RFO600E4SEB	1	-	QT
902	CANDY CANE ROOF PENETRATION	ROOF PENETRATION	-	-	GC
903	ROOF TOP UNIT	AAON RN-SERIES	3	-	QT

GENERAL NOTES:

A) ALL EQUIPMENT SHALL BE OWNER FURNISHED, CONTRACTOR INSTALLED.
B) VERIFY MODEL NUMBERS ON SITE AND COORDINATE WITH QT REPRESENTATIVE ANY DISCREPANCIES. PROVIDE REFRIGERANT TYPE AND CHARGE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

HOOD / EXHAUST FAN SCHEDULE

H # / EF #	MANUFACTURER	MODEL	SIZE	CFM OFF/MAX	MISC.	LIGHTS	FIRE SYSTEM	WEIGHT	NOTES
H-1	CAPTIVEAIRE	4824ND-2-PSP-F	(9') 48"X24"	0 / 1350	12"Ø EXHAUST CAN	(6) LED	YES	749 LBS	1-9
EF-3	CAPTIVEAIRE	DU50HFA	1/2 HP	0 / 1350	DIRECT-DRIVE	-	-	74 LBS	1,10,11

NOTES:

1) HOODS, FANS, AND ACCESSORIES SHALL BE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
2) HOOD SHALL BE 430 STAINLESS STEEL.
3) HOOD SHALL BE FURNISHED WITH FAN INDICATOR AND LIGHTSWITCH MOUNTED ON FRONT PANEL.
4) FACTORY FURNISHED U.L. LISTED STAINLESS STEEL DUCT KIT AND ALL REQUIRED CONNECTION ACCESSORIES FOR FIELD-INSTALLATION FROM HOOD TO FAN.
5) HOOD SHALL HAVE RIGHT AND LEFT QUARTER END PANELS.
6) HOOD SHALL HAVE FRONT, LEFT, RIGHT STAINLESS STEEL FIELD WRAPPER.
7) DUCT MOUNTED HEAT SENSORS AND AUTOMATIC FAN CONTROLS MOUNTED IN 12" SIDE-CABINET.
8) SYSTEM SHALL BE CAPABLE OF MODULATING FAN AS SCHEDULED, AND INTERLOCK WITH BUILDING HVAC SYSTEM FOR MAKEUP AIR.
9) EQUIPMENT SHUT DOWN CONTACTORS ARE FACTORY-FURNISHED WITHIN SIDE-CABINET.
10) FAN SHALL BE FURNISHED WITH VENTED AND HINGED CURB AND DISCONNECT.
11) VARIABLE SPEED CONTROLLER MOUNTED IN FAN HOUSING.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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MECHANICAL SCHEDULES & NOTES

SHEET NUMBER:
M601

A1 | MECHANICAL SCHEDULES

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

K1 NOT USED

A1 NOT USED

F9 MECHANICAL PIPING GENERAL NOTES

1. ALL REFRIGERATION LINES TO GO OVERHEAD UNLESS OTHERWISE NOTED.
2. INSULATE ALL LOW TEMPERATURE SUCTION LINES WITH MINIMUM 1" INSULATION. INSULATE ALL MEDIUM TEMPERATURE SUCTION LINE WITH MINIMUM 1" INSULATION. INSULATE ALL LINES FROM CONDENSING UNIT TO COIL INCLUDING HEAT EXCHANGER.
3. INSULATE ALL LIQUID LINES WITH MINIMUM 1/2" INSULATION.
4. REFER TO SPECIFICATIONS SECTION 23 07 19 - HVAC PIPING INSULATION FOR MORE INFORMATION ON INSULATION AND PVC JACKETS ON OUTDOOR LINES AND FILTER CANISTERS.
5. SLOPE ALL SUCTION LINES TOWARD CONDENSING UNIT (COMPRESSOR RACKS/UNITS) AT A MINIMUM OF 1" PER 20'.
6. ALL TUBING SHOULD BE REFRIGERATION GRADE CLEANED AND CAPPED.
7. CONTRACTOR TO COORDINATE REFRIGERATION LINE RUN WITH FIRE SPRINKLER CONTRACTOR, DUCTWORK, POWER, AND ALL OTHER TRADES THAT MAY BE INVOLVED.
8. REFRIGERATION LEAK SENSORS INDICATED SHALL BE OWNER-FURNISHED, CONTRACTOR-INSTALLED IN CONDUIT, WIRED TO EMERSON BUILDING MANAGEMENT SYSTEM (RE: QT EMERSON INSTALL DRAWINGS) TO PROVIDE BI-LEVEL WARNING. UPON DETECTION OF LOW-LEAK, A NOTIFICATION WILL BE SENT TO FACILITY SUPPORT. UPON DETECTION OF A HIGH-LEAK, ALL SOLENOID VALVES TO AFFECTED AREA WILL BE CLOSED TO ISOLATE THE LEAK AND AN ALARM WILL BE SENT TO FACILITY SUPPORT. (SEAL CONDUITS PENETRATING COOLER OR FREEZER WALLS, INSIDE AND OUT).

A9 MECHANICAL DUCTWORK GENERAL NOTES

1. RE: SPECIFICATIONS, DETAILS, AND SCHEDULES FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON THE PLAN.
2. ALL TEMPERATURE CONTROL WIRING SHALL BE TAPPAN OR BELDEN CABLE BY THE EMS INSTALLER AND SHALL MEET NFPA 70 REQUIREMENTS. RE: ROOFTOP UNIT SCHEDULE FOR ADDITIONAL REQUIREMENTS. CONCEAL ALL WIRING IN WALL CAVITIES OR ABOVE CEILING.
3. MECHANICAL CONTRACTOR SHALL REMOVE ALL FILTERS AND REPLACE WITH NEW FILTERS WHEN CONSTRUCTION IS FINISHED.
4. CONTRACTOR TO FIELD REVIEW AND VERIFY EXISTING CONDITIONS AS APPLICABLE AND COORDINATE WITH OTHER TRADES.
5. TRANSITION AS REQUIRED FROM BRANCH DUCT TO DIFFUSER NECK. COORDINATE BETWEEN PLANS AND SCHEDULES.
6. DUCTWORK DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.
7. FLEXIBLE DUCTWORK NOT ALLOWED OVER 5' IN LENGTH.
8. HOLD TOP OF DUCTWORK TO UNDERSIDE OF STRUCTURE WHEREVER POSSIBLE.
9. ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPER INSTALLED AS INDICATED ON DRAWINGS. HANDLE SHALL BE ACCESSIBLE AND BE CAPABLE OF OPENING OR CLOSING FULLY. RE:DIFFUSER CONNECTION DETAIL.
10. RE: REFLECTED CEILING PLANS FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
11. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE FIELD DETERMINED BY OWNER AT JOB SITE.
12. MECHANICAL CONTRACTOR SHALL CLEAN ALL CONDENSERS AFTER CONSTRUCTION HAS BEEN COMPLETED.
13. MECHANICAL CONTRACTOR SHALL TEST AND VERIFY THE OPERATION OF ALL SMOKE DETECTORS AND OR SENSORS.
14. ALL DUCTWORK SHALL RECEIVE DUCT WRAP INSULATION PER SPECIFICATIONS. LINED DUCTWORK IS NOT ACCEPTABLE.

A13 MECHANICAL SYMBOLS LEGEND

CFM 5'	SUPPLY DIFFUSER WITH SECTORIZED BAFFLE
CFM 5' CFM 5'	SUPPLY DIFFUSERS WITH TYPE AND CFM AMOUNT
CFM 5'	SUPPLY DIFFUSERS WITH TYPE AND CFM AMOUNT
CFM 5' CFM 5'	RETURN OR EXHAUST GRILLE WITH TYPE AND CFM AMOUNT
12x10	RECTANGULAR DUCTWORK WIDTH INCHES X DEPTH INCHES
	TAKE-OFF WITH GASKET AND DAMPER 45° OR 90° AS SHOWN ON PLAN FLEXDUCT RUNOUT
	ELBOW WITH TURNING VANES
EF	ROOF MOUNTED EXHAUST FAN
RT 1	ROOFTOP UNIT (DASHED OUTLINE REPRESENTS SERVICE CLEARANCE)
EMS	ENERGY MANAGEMENT SYSTEM
TS	REMOTE TEMPERATURE SENSOR (PER EMS)
H	HUMIDISTAT (PER EMS)
	DUCT SMOKE DETECTOR
	SMOKE DETECTOR ANNUNCIATOR & REMOTE TEST STATION (WHITE FINISH)
S	IRRIGATION WEATHERMATIC SENSOR
W	WEATHER STATION
XX-XX.X	SECTION TAG
X-X	INTERIOR ELEVATION TAG
#	EQUIPMENT IDENTIFICATION
	REFRIGERATION LIQUID PIPING
	REFRIGERATION SUCTION PIPING
R	REFRIGERANT LEAK SENSOR
	HORN/STROBE ALARM
	LIQUID LINE SOLENOID VALVE
P	HOOD SUPPRESSION PUSH STATION

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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SHEET TITLE:
MECHANICAL GENERAL NOTES & SYMBOLS

SHEET NUMBER:
M602

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

LIGHT FIXTURE SCHEDULE

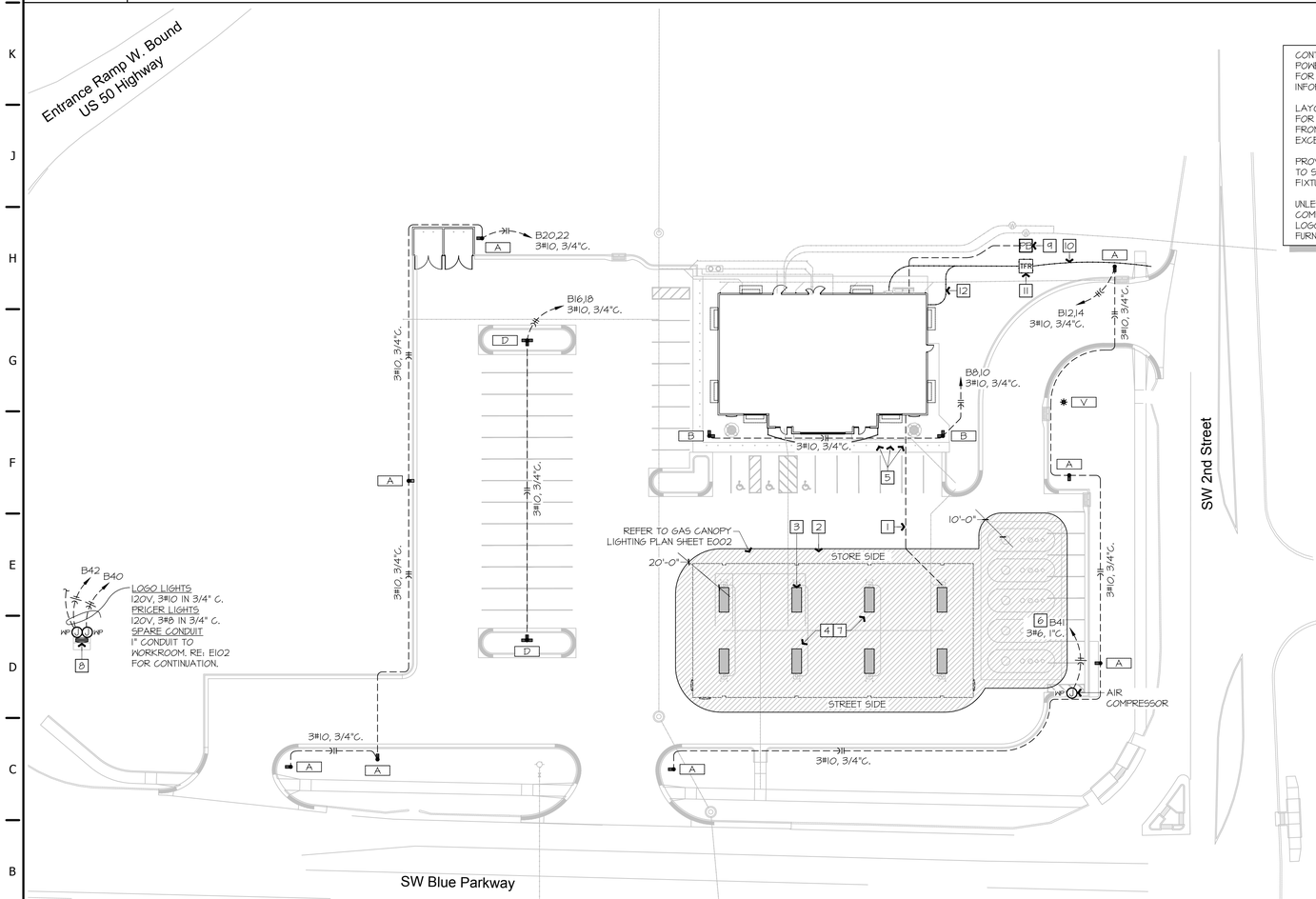
TYPE	IMAGE	SYMBOL	QUANTITY	MANUFACTURER	CATALOG NUMBER	LAMPS	MOUNTING HEIGHT	MOUNTING	VOLTS	WATTS	REMARKS
A			8	LSI INDUSTRIES	SLM-LED-12L-SIL-FT-UNV-DIM-40-TOGRI "SLICE"	LED	22'	POLE MTD.	208	94	SINGLE - FORWARD THROW
B			2	LSI INDUSTRIES	SLM-LED-12L-SIL-FT-UNV-DIM-40-TOGRI "SLICE"	LED	22'	POLE MTD.	208	188	DOUBLE 90 (D90) - FORWARD THROW
C			0	LSI INDUSTRIES	SLM-LED-12L-SIL-FT-UNV-DIM-40-TOGRI "SLICE"	LED	22'	POLE MTD.	208	188	DOUBLE 180 (D180) - FORWARD THROW
D			2	LSI INDUSTRIES	SLM-LED-12L-SIL-FT-UNV-DIM-40-TOGRI "SLICE"	LED	22'	POLE MTD.	208	282	TRIPLE 90 (T90) - FORWARD THROW
E			32	LSI INDUSTRIES	CRUS-SC-LED-SS-40-UE-WHT "SCOTTSDALE LEGACY"	LED	15' TO 19'	SURFACE	208	93	WHITE
V			1	LSI INDUSTRIES	LOW VOLTAGE POLE	N/A	N/A	N/A	N/A	N/A	USED FOR SECURITY CAMERA MOUNTING PROVIDE SAME POLE BASE AS LIGHT POLES

GENERAL NOTES (APPLY TO ALL THE ABOVE):

1) ALL LIGHT FIXTURES ARE OWNER-FURNISHED, CONTRACTOR-INSTALLED.
2) ALL ADJUSTABLE LIGHT HEADS SHALL BE POSITIONED STRAIGHT DOWN.
3) ALL LIGHT FIXTURES ARE FULLY SHIELDED.

L1 SITE LIGHTING FIXTURE SCHEDULE

NOT TO SCALE | A1-E001, A1-E002



CONTRACTOR SHALL REFER TO FUEL INSTALLATION PLANS FOR POWER TO FUEL EQUIPMENT AND ADDITIONAL CONDUITS AND WIRING FOR CONTROL, DATA, COMMUNICATIONS, ETC., AND MORE DETAILED INFORMATION ON FINAL CONNECTIONS.

LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. IF CIRCUITING VARIES FROM DESIGN, CONTRACTOR TO CONFIRM VOLTAGE DROP DOES NOT EXCEED 3%.

PROVIDE IN EVERY CIRCUIT A SEPARATE EQUIPMENT GROUND WIRE TO SOURCE PANEL AND BOND EVERY EQUIPMENT AND OR LIGHT FIXTURE TO METAL STRUCTURE PER NEC 514.16.

UNLESS NOTED OTHERWISE, ALL OWNER FURNISHED AIR COMPRESSORS, MONUMENT SIGNS, HIGH RISE SIGNS, PRICER SIGNS, LOGO SIGNS, SCALE SIGNAGE, AND DIRECTIONAL SIGNS ARE FURNISHED WITH A FACTORY MOUNTED DISCONNECT SWITCH.

HAZARDOUS LOCATION LEGEND

- NON-HAZARDOUS
- CLASS I, DIVISION 1, GROUP D.
- CLASS I, DIVISION 2, GROUP D.

NOTE: PROVIDE A CONDUIT SEAL RATED FOR CLASS I, GROUP D, AT EACH END OF ANY CONDUIT ORIGINATING IN OR PASSING THRU ANY HAZARDOUS LOCATION SHOWN HERE.

SIGNAGE APPROVED UNDER SEPARATE APPLICATION.

REFER TO SHEET E002 FOR GAS CANOPY LIGHTING.
REFER TO SHEET E003 FOR SECURITY CAMERA CONDUIT LAYOUT.

A1 ELECTRICAL SITE PLAN

1" = 30'-0" | NORTH

F13 NOT USED

1. #3/0 GROUNDING ELECTRODE CONDUCTOR IN 1-1/4" CONDUIT FROM BUILDING SERVICE ENTRANCE GROUNDING ELECTRODE CAD-WELD BONDED TO CANOPY STRUCTURAL STEEL. RE: J1-E504.
2. CLASS I, DIVISION 2 AREA WITHIN 18" OF ANY EDGE OF THE DISPENSER TO GRADE AND FROM GRADE TO 1'-6" ABOVE GRADE WITHIN 20'-0" OF ANY EDGE OF THE DISPENSER.
3. CLASS I, DIVISION 1 AREA WITHIN THE DISPENSER ENCLOSURE AND WITHIN THE PIT BELOW THE DISPENSER. (TYP).
4. CLASS I, DIVISION 2 AREA WITHIN 10'-0" OF PUMPS OR FILL OPENINGS FROM GRADE TO 1'-6" ABOVE GRADE.
5. ROUTE CONDUITS TO GAS ISLANDS AROUND BOLLARDS.
6. ROUTE SO THAT NO PART OF THE CONDUIT RUN PASSES BENEATH THE HAZARDOUS LOCATION BOUNDARIES IDENTIFIED ON THIS PLAN. IF UNAVOIDABLE, SEAL ANY CONDUIT PASSING UNDER A HAZARDOUS LOCATION AT THE POINTS WHERE IT EXITS THE GROUND. (BOTH ENDS).
7. RE: FUEL DRAWINGS FOR DISPENSER AND FUEL TANK CIRCUITING.
8. SITE SIGNAGE - 120V POWER TO SIGN LTS, 120V POWER TO PRICER AT SIGN. RE: SIGNAGE MANUFACTURER INSTRUCTIONS FOR FINAL CONNECTIONS, ETC.
9. PROVIDE (1) 1" EMPTY CONDUIT WITH PULL STRINGS TO PULL BOX FOR FUTURE EQUIPMENT. PROVIDE HUBBELL QUAZITE BOX PEDESTRIAN RATED (LANDSCAPE AREAS): BOX #PG111BA12 & LID #PG111BCA00.
10. EXTEND TO UTILITY CONNECTION POINT AT PROPERTY LINE. VERIFY EXACT LOCATION OF UTILITY CONNECTION POINT PRIOR TO INSTALLATION.
11. THE CONTRACTOR SHALL PROVIDE PRIMARY AND SECONDARY UTILITY CONDUITS AND THE TRANSFORMER PAD AS SPECIFIED BY THE UTILITY CO.
12. (2) 4" EMPTY CONDUITS FOR TELCO UTILITY COMPANY USE. PROVIDE PULL BOXES AS REQUIRED BY THE SERVING UTILITY. CAP BOTH ENDS OF ANY UNUSED CONDUITS AND LEAVE IN PLACE FOR FUTURE USE.

A13 PLAN NOTES

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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SHEET TITLE: ELECTRICAL SITE PLAN

SHEET NUMBER: E001

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Development Services Department
Lee's Summit, Missouri
03/10/2025

SIGNAGE APPROVED UNDER SEPARATE APPLICATION.

RUN LIGHTING CIRCUITS THROUGH OUTSIDE LIGHTING CONTROL SYSTEM. STAGE NUMBER INDICATED IN PARENTHESIS. STAGING PER EMS PROGRAMMING. REFER TO PANEL SCHEDULES FOR STAGE LIGHTING LOADS.

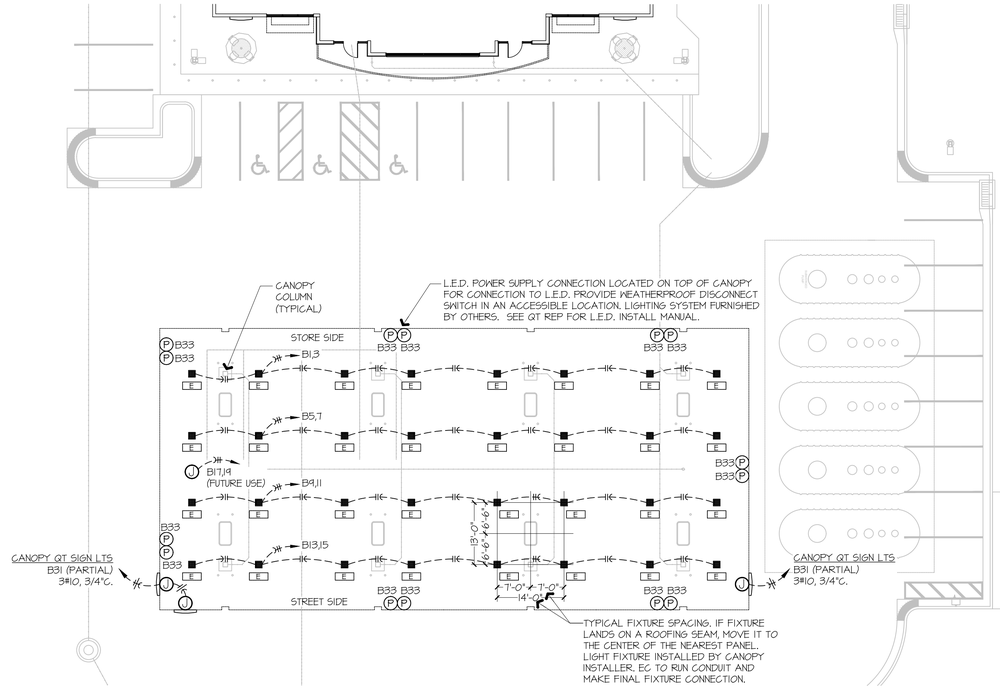
LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS TO UTILIZE (6) 1" CONDUITS AS FOLLOWS (UNLESS NOTED OTHERWISE ON PLAN):

- STAGE 2 LIGHTING MAX (9) #10 WIRES IN (1) 1" CONDUIT.
- STAGE 3 LIGHTING MAX (9) #10 WIRES IN (1) 1" CONDUIT.
- LED + CANOPY SIGN MAX (4) #10 WIRES IN (1) 1" CONDUIT.
- SPARE CONDUITS WITH PULL STRINGS (3) 1" CONDUITS.

#10 WIRE SIZE IS SUFFICIENT FOR VOLTAGE DROP UP TO 300' AND UP TO 9 CURRENT-CARRYING CONDUCTORS IN A CONDUIT FOR ALL LIGHTING AND SIGNAGE CIRCUITS AT CANOPIES.

RE: E001 FOR HAZARDOUS LOCATIONS AND REQUIRED CONDUIT SEALING.

ROUTE ALL ABOVE GRADE WIRING RELATED TO LIGHTING, SECURITY, AND LOW VOLTAGE WITHIN CONDUIT. CONDUIT TO BE RIGID STEEL, INTERMEDIATE METAL, OR SCHEDULE 80 PVC. RE: SPECIFICATIONS.



REFER TO SHEET E001 FOR [*] FIXTURE CALLOUTS.

NORTH

A1 — GAS CANOPY LIGHTING PLAN — 1"=15'-0"

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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SHEET TITLE:
GAS CANOPY LIGHTING PLAN

SHEET NUMBER:
E002

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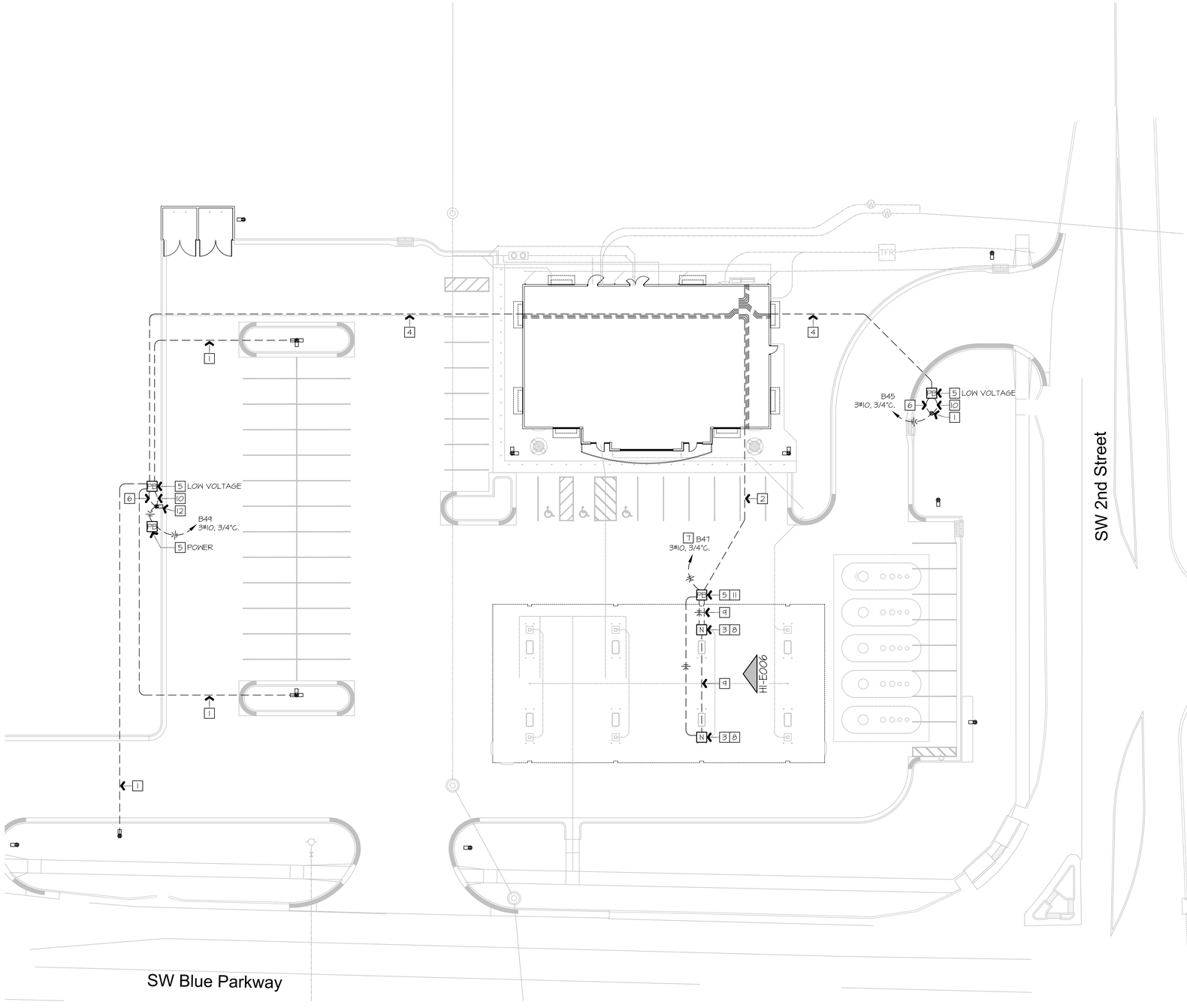
Lee's Summit, Missouri
03/10/2025



RE: E001 FOR HAZARDOUS LOCATION IDENTIFICATION AND CONDUIT SEALING REQUIREMENTS.

ROUTE ALL ABOVE GRADE WIRING RELATED TO CANOPY LIGHTING, SECURITY, AND LOW VOLTAGE WITHIN CONDUIT. CONDUIT TO BE RIGID STEEL, INTERMEDIATE METAL, OR SCHEDULE 80 PVC. RE: SPECIFICATIONS.

1. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING TO POLE-MOUNTED SECURITY CAMERA. RE: A12-E006.
2. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO PULLBOX OR CANOPY MOUNTED NETWAY AS DETAILED ON HI-E006 FOR GAS CANOPY. RE: FUEL DRAWINGS AND FOR CONDUIT LAYOUT WITHIN CANOPY COLUMN. RE: A1-E102 FOR CONTINUATION TO BUILDING. ROUTE SO THAT NO CONDUIT RUN PASSES BENEATH THE HAZARDOUS LOCATION BOUNDARIES. IF UNAVOIDABLE, SEAL ANY CONDUIT PASSING UNDER A HAZARDOUS LOCATION AT THE POINTS WHERE IT EXITS THE GROUND. (BOTH ENDS).
3. RE: E004 FOR DOWNSTREAM CAMERA LOCATIONS AT GAS CANOPY.
4. PROVIDE 2" EMPTY CONDUIT WITH PULL STRING TO PULL BOX. RE: A12-E006 & A1-E102 FOR CONTINUATION.
5. PROVIDE HUBBELL QUAZITE BOXES AS REQUIRED BELOW. RE: A12-E006.
   PEDESTRIAN RATE BOX (LANDSCAPE AREAS) : BOX #PG1118BA12 & LID #PG1118CA00.
   TRAFFIC RATED BOX (TRAFFIC RATED AREAS) : BOX #PG1120BG12 & LID #PG1120HG00.
6. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING TO NETWAY AT LIGHT POLE. RE: A12-E006.
7. ROUTE SO THAT NO PART OF THE CONDUIT RUN PASSES BENEATH THE HAZARDOUS LOCATION BOUNDARIES IDENTIFIED ON THIS PLAN. IF UNAVOIDABLE, SEAL ANY CONDUIT PASSING UNDER A HAZARDOUS LOCATION AT THE POINTS WHERE IT EXITS THE GROUND. (BOTH ENDS).
8. PROVIDE POWER FOR CANOPY MOUNTED NETWAY. RE: E004 FOR QUANTITIES. RE: HI-E006.
9. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING TO NETWAY AT CANOPY COLUMN. RE: HI-E006.
10. PROVIDE (2) 1" CONDUITS FOR CAT-6 CABLES FROM NETWAY TO DOWNSTREAM CAMERAS. RE: A12-E006.
11. PULLBOX TO BE USED FOR NETWAY POWER AND FIBER ONLY. DO NOT INSTALL POWER OR LOW VOLTAGE FOR CANOPY IN THIS BOX.
12. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO POLE-MOUNTED SECURITY CAMERA. RE: A12-E006.

A1	SECURITY POWER & CONDUIT PLAN
1" = 20'-0"	

NORTH

A13	PLAN NOTES

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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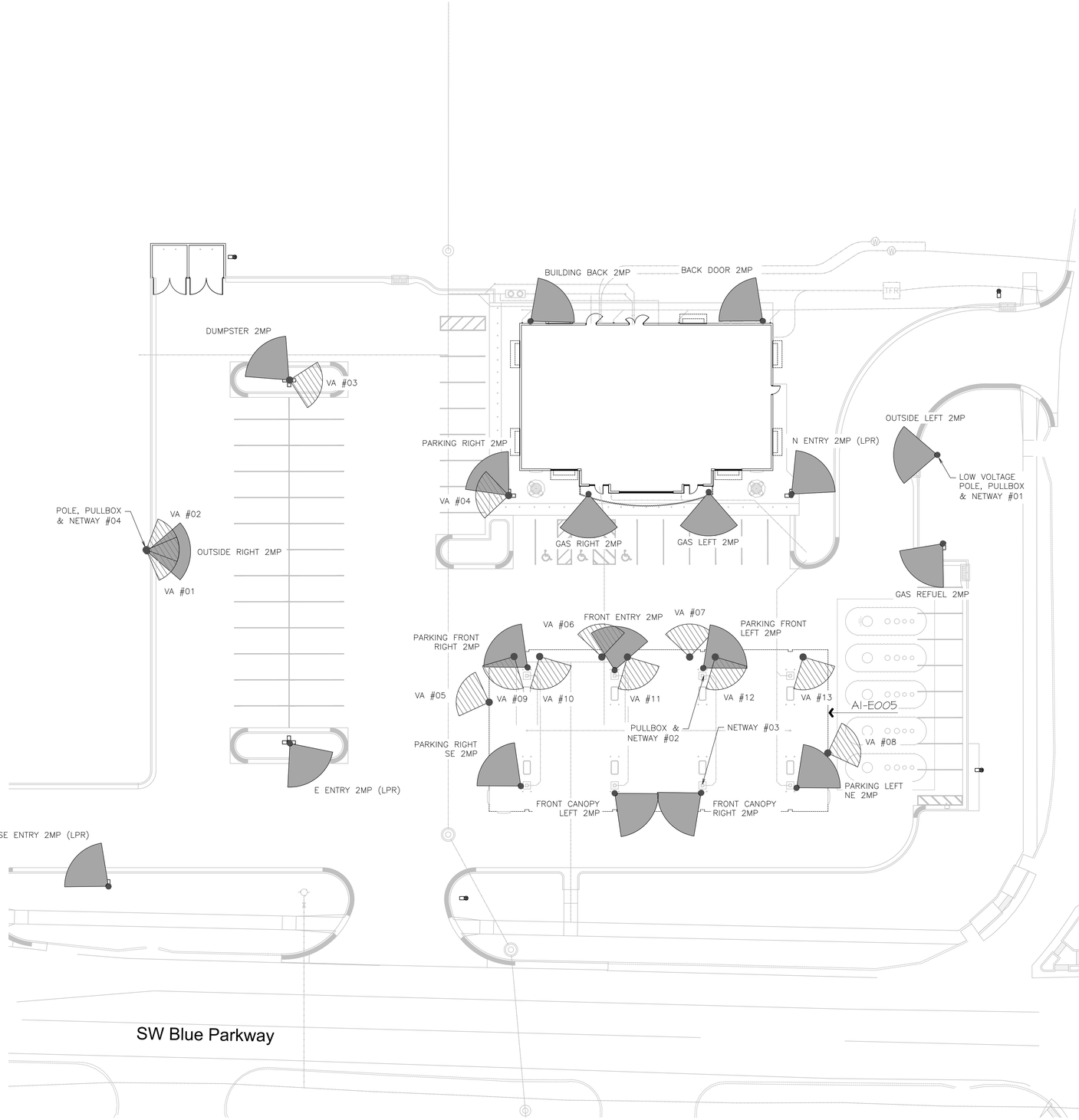
SHEET TITLE:
SECURITY POWER & CONDUIT PLAN

SHEET NUMBER:
E003



SITE CAMERAS

CAMERA NAME	RESOLUTION	POWER REQUIREMENT	CONDUIT LOOP	TERMINATION	MOUNTED TO	MOUNTING TYPE
OUTSIDE LEFT	2MP	30W	1	NETWAY 01 (240W)	POLE	PENDANT
N. ENTRY	2MP	30W	1	NETWAY 01 (240W)	POLE	PENDANT
GAS REFUEL	2MP	30W	1	NETWAY 01 (240W)	POLE	PENDANT
PARKING RIGHT	2MP	30W	1	NETWAY 01 (240W)	POLE	PENDANT
VA #04	2MP	13W	1	NETWAY 01 (240W)	POLE	PENDANT
PARKING FRONT LEFT	2MP	30W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
PARKING LEFT NE	2MP	30W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
FRONT CANOPY RIGHT	2MP	30W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
FRONT CANOPY LEFT	2MP	30W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
VA #07	2MP	13W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
VA #08	2MP	13W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
VA #12	2MP	13W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
VA #13	2MP	13W	2	NETWAY 02 (240W) - DAISYCHAIN	CANOPY COLUMN	PENDANT
PARKING RIGHT SE	2MP	30W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
PARKING FRONT RIGHT	2MP	30W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
FRONT ENTRY	2MP	30W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
VA #05	2MP	13W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
VA #06	2MP	13W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
VA #09	2MP	13W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
VA #10	2MP	13W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
VA #11	2MP	13W	2	NETWAY 03 (240W)	CANOPY COLUMN	PENDANT
SE ENTRY	2MP	30W	3	NETWAY 04 (240W)	POLE	PENDANT
E. ENTRY	2MP	30W	3	NETWAY 04 (240W)	POLE	PENDANT
OUTSIDE RIGHT	2MP	30W	3	NETWAY 04 (240W)	POLE	PENDANT
DUMPSTER	2MP	30W	3	NETWAY 04 (240W)	POLE	PENDANT
VA #01	2MP	13W	3	NETWAY 04 (240W)	POLE	PENDANT
VA #02	2MP	13W	3	NETWAY 04 (240W)	POLE	PENDANT
VA #03	2MP	13W	3	NETWAY 04 (240W)	POLE	PENDANT

BUILDING EXTERIOR CAMERAS

CAMERA NAME	RESOLUTION	POWER REQUIREMENT	CONDUIT LOOP	TERMINATION	MOUNTED TO	MOUNTING TYPE
BUILDING BACK	2MP	30W	N/A	COPPER/48-PORT SWITCH	BUILDING	PENDANT
BACK DOOR	2MP	30W	N/A	COPPER/48-PORT SWITCH	BUILDING	PENDANT
GAS LEFT	2MP	30W	N/A	COPPER/48-PORT SWITCH	BUILDING	SURFACE
GAS RIGHT	2MP	30W	N/A	COPPER/48-PORT SWITCH	BUILDING	SURFACE

SITE CAMERA MATERIAL LIST

DESCRIPTION	PART NUMBER	QUANTITY
LINKPOWER - 300W 4PORT (95W PER PORT)	LPS3400ATMP-300-T1	0
LINKPOWER - 240W 8PORT (30W PER PORT)	LPS3802ATM-T1	4
CISCO SFP	GLC-SX-MMD	3
LINKPOWER - INDUSTRIAL MULTIMODE SFP	LPS MM 2630i LC	5
NETWAY - RACK-MOUNT 8-PORT	NETWAY8BT	0
LINKPOWER - POLE-MOUNT KIT	MMK0001-S	0

LABEL BOTTOM OF NETWAY ENCLOSURES WITH CIRCUIT BREAKER NUMBER AND CAMERA LOOP NUMBER AS INDICATED ON PANEL SCHEDULES. LABELING SHALL BE LEGIBLE FROM GROUND HEIGHT.

CAMERA LEGEND

VIDEO ANALYTICS CAMERA

SECURITY CAMERA

SECURITY GENERAL NOTES

RE: E003 FOR REQUIRED CONDUITS.

OUTDOOR SECURITY CAMERA EQUIPMENT SUMMARY TABLE

# INSIDE MONITORS RQD	2
LICENSES TO ORDER	19

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

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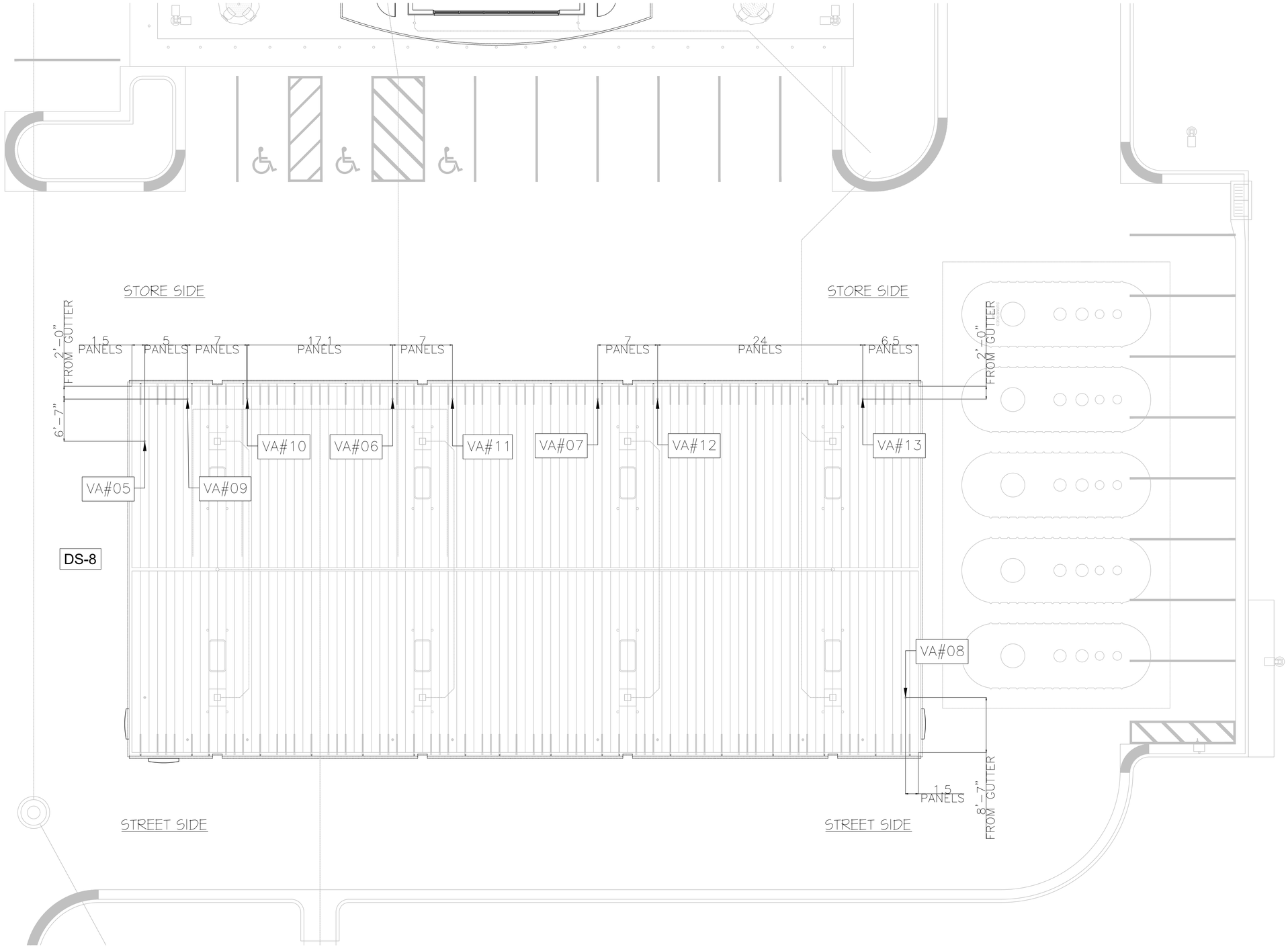
SHEET TITLE:
SECURITY CAMERA PLAN

SHEET NUMBER:
E004

A1
1" = 20'-0"

SECURITY CAMERA PLAN

NORTH



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SHEET TITLE:
GAS CANOPY
VA CAMERA
LOCATIONS

SHEET NUMBER:
E005

A1
NOT TO SCALE

GAS CANOPY VA CAMERA LOCATIONS
A1-E004

NORTH

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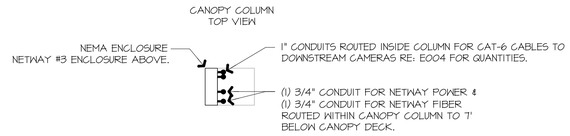
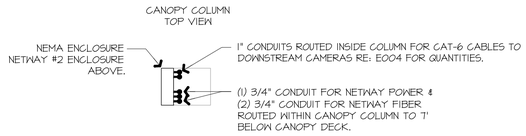
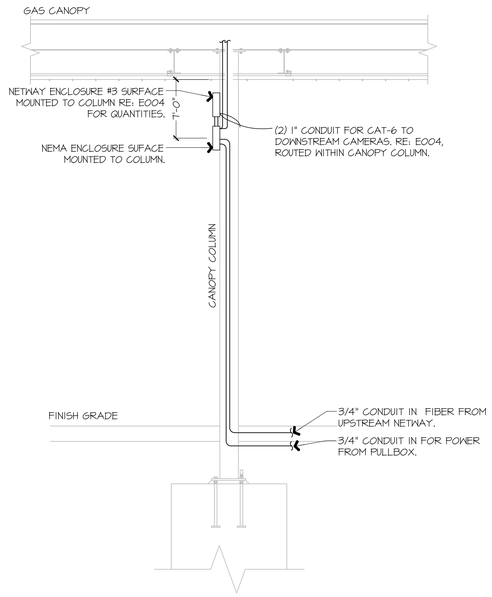
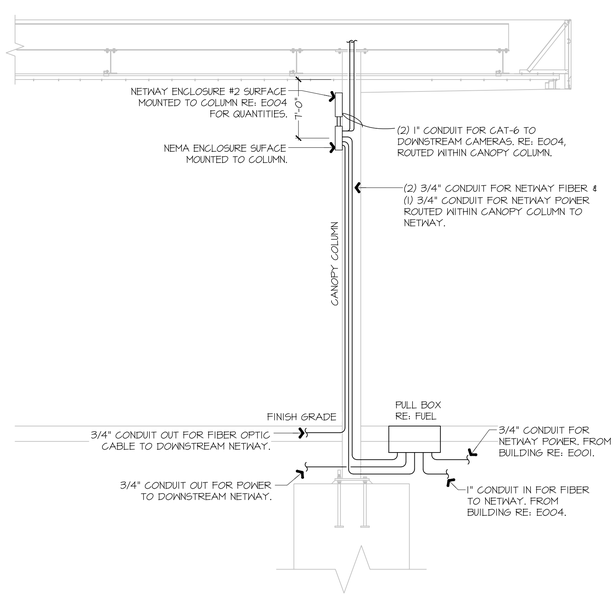
03/10/2025

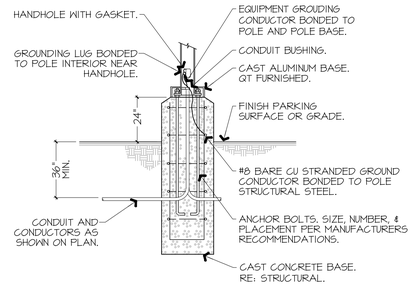








H1	GAS CANOPY SECURITY CONDUIT DETAIL
NOT TO SCALE	A1-E003

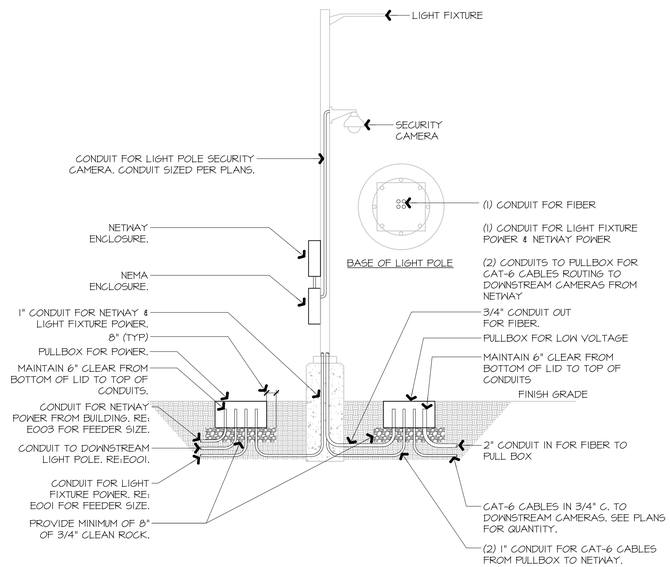


NOTE:
DIAMETER & DEPTH OF CONCRETE BASE TO BE DETERMINED ON A REGIONAL BASIS. STRUCTURAL ENGINEER SHALL DETERMINE REBAR AND CONCRETE BASED ON REGIONAL WEATHER AND SOILS CONDITIONS.

FOR ANY LIGHT POLE CONTAINING MORE THAN ONE CIRCUIT, PROVIDE GROUNDING ELECTRODE PER NEC 250.32.

H13	ELECTRICAL POLE BASE DETAIL
NOT TO SCALE	A1-E001

A1	NOT USED



A12	LIGHT POLE SECURITY CONDUIT DETAIL
NOT TO SCALE	A1-E003

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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SHEET TITLE:
ELECTRICAL SITE DETAILS

SHEET NUMBER:
E006

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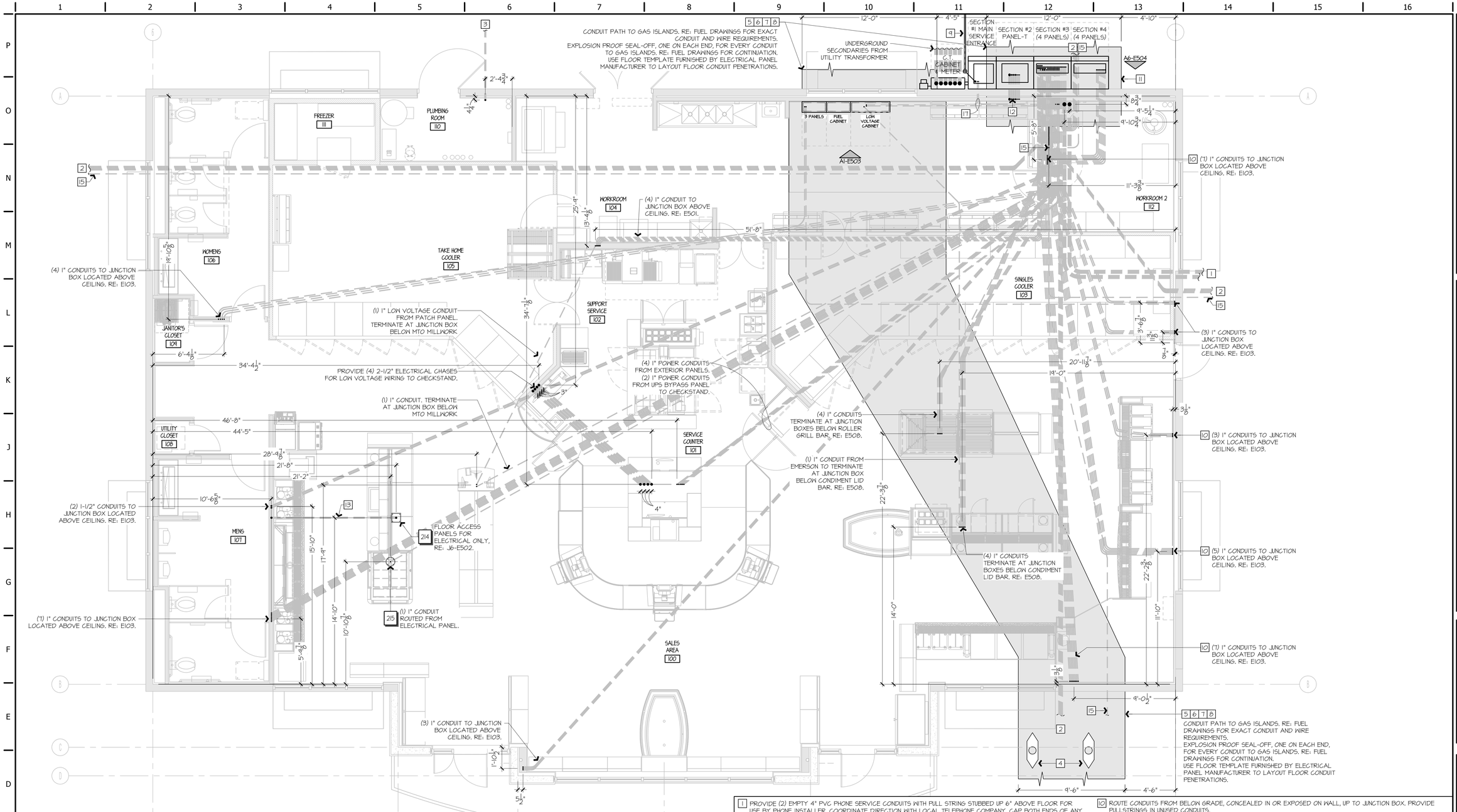

ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT, UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.

ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS SHALL BE DERATED AND SIZED PER NEC TABLE 310.15(C)(1) REQUIREMENTS.

THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER UTILITIES. ALL POWER SHALL BE ROUTED BELOW GRADE UNLESS OTHERWISE NOTED. EXACT ROUTING AT CONTRACTOR'S DISCRETION.

RE: SPECIFICATIONS FOR MINIMUM CONDUIT DEPTHS. MAINTAIN AT LEAST 16" COVER BELOW SLABS.

1 PROVIDE (2) EMPTY 4" PVC PHONE SERVICE CONDUITS WITH PULL STRING STUBBED UP 6" ABOVE FLOOR FOR USE BY PHONE INSTALLER. COORDINATE DIRECTION WITH LOCAL TELEPHONE COMPANY. CAP BOTH ENDS OF ANY UNUSED CONDUITS AND LEAVE IN PLACE FOR FUTURE USE. PROVIDE FOR PHONE SYSTEM ONE #6 COPPER GROUND WIRE FROM MAIN SERVICE GROUND POINT AND TERMINATE AS DIRECTED BY PHONE COMPANY. INSTALL PHONE LINE CONDITIONER FOR EACH INCOMING PHONE LINE. COORDINATE WITH QUIKTRIP REPRESENTATIVE.

2 PROVIDE EMPTY CONDUIT WITH PULL STRINGS STUBBED UP 4" ABOVE CEILING FOR SECURITY CAMERAS. RE: E003 FOR CONTINUATION AND EXACT QUANTITY. ROUTE CONDUITS UP IN FURRED OUT WALL.

3 PROVIDE 2" EMPTY CONDUIT TO LAWN IRRIGATION SYSTEM.

4 ROUTE CONDUITS TO GAS ISLANDS AROUND BOLLARDS. RE: CIVIL PLANS FOR MORE INFORMATION.

5 PROVIDE (4) 1" CONDUITS FOR INTERCOM. (1) HOMERUN TO FIRST DISPENSER OF EACH ROW AND (1) EMPTY CONDUIT WITH PULL STRING TO EACH ROW OF COLUMNS FOR FUTURE USE. RE: FUEL DRAWINGS FOR MORE INFORMATION.

6 PROVIDE INTERCOM WIRE, FINAL HOOKUP BY OTHERS. COORDINATE WITH QT REPRESENTATIVE.

7 PROVIDE 3/4" CONDUIT FOR DISPENSER COMMUNICATION (HOMERUN FOR EACH DISPENSER). RE: FUEL DRAWINGS.

8 PROVIDE EXPLOSION PROOF SEAL-OFF AT ALL PENETRATIONS THROUGH SLAB AND ALL OPEN CONDUITS STUBBED OUTSIDE OF BUILDING FOR GAS PUMP ISLANDS.

9 INSTALL OWNER FURNISHED ELECTROLYTIC GROUND ROD PER DETAIL J1-E504 AND MANUFACTURER INSTALLATION INSTRUCTIONS.

10 ROUTE CONDUITS FROM BELOW GRADE, CONCEALED IN OR EXPOSED ON WALL, UP TO JUNCTION BOX. PROVIDE PULLSTRINGS IN UNUSED CONDUITS.

11 CONDUIT PATH TO INTERIOR BRANCH PANEL CIRCUITS THROUGH FOUNDATION BLOCKOUT.

12 ROUTE CONDUIT FOR PANEL "G", RTU'S, AND CONDENSING UNITS BELOW GRADE THROUGH FOUNDATION BLOCKOUT. TURN UP IN WALL.

13 2" UNDERFLOOR CHASE FOR ELECTRICAL ONLY. COORDINATE WITH PLUMBING IN THE SAME VICINITY.

14 NOT USED.

15 PROVIDE (1) 1" EMPTY CONDUIT WITH PULL STRING STUBBED 4" ABOVE CEILING FOR MONUMENT OR HIGH RISE SIGN. RE: E001 FOR CONTINUATION AND EXACT QUANTITY AND LOCATION. LOCATE WITH EXTERIOR CAMERA CONDUITS.

16 NOT USED.

17 PROVIDE CONDUITS FROM INTERIOR TO EXTERIOR ELECTRICAL PANELS AS SHOWN. RE: A1-E503 FOR MORE INFORMATION.

A1 ELECTRICAL UNDER FLOOR PLAN
3/8" = 1'-0"

NORTH

A9 PLAN NOTES

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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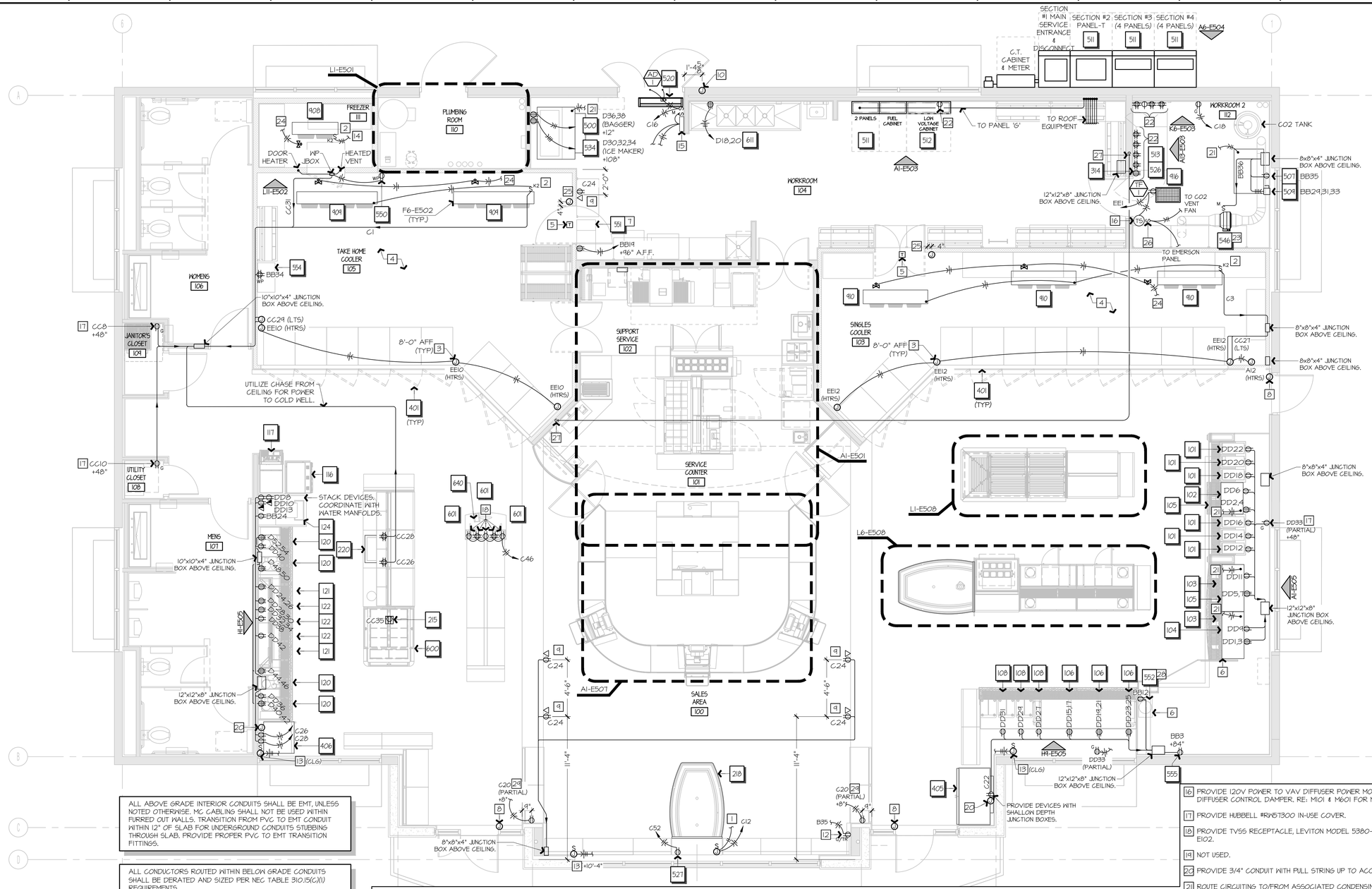
ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL UNDERFLOOR PLAN

SHEET NUMBER:
E102



ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT, UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.

ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS SHALL BE DERATED AND SIZED PER NEC TABLE 310.15(C)(1) REQUIREMENTS.

THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER UTILITIES. ALL POWER SHALL BE ROUTED BELOW GRADE UNLESS OTHERWISE NOTED. EXACT ROUTING AT CONTRACTOR'S DISCRETION.

REFER TO "QT LOW VOLTAGE/SECURITY INSTALLATION MANUAL" FOR ADDITIONAL WIRING REQUIREMENTS PRIOR TO WALLS AND CEILINGS BEING FINISHED. COORDINATE WITH QT REP.

PROVIDE BLACK OUTLETS AND BLACK COVER PLATES WHERE MOUNTED ON DARK-COLORED WALLS, INCLUDING EXTERIOR BLOCK WALLS.

REFER TO SHEET E602 FOR [x] EQUIPMENT CALLOUTS.

ALL DEVICES SHOWN WITH CIRCUIT PANEL DESIGNATION SHALL BE HOME-RUN WITH 3#12 IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. DO NOT SHARE NEUTRALS UNLESS SPECIFICALLY NOTED.

1 ROUTE CONTROL WIRING TO ASSOCIATED CONDENSING UNIT. RE: MANUFACTURERS WIRING DIAGRAMS. RE: E105.

2 PROVIDE 120V KEYED SWITCH LABELED "EVAPORATORS" AS POWER DISCONNECT FOR EVAPORATOR FANS. RE: F6-E502 (TYP).

3 HARDWIRE TO SINGLE POINT CONNECTION FOR DOOR LIGHT/HEATER J-BOXES. LIGHTS SHALL BE ON ONE CIRCUIT & HEATERS SHALL BE ON OTHER. LIGHTS SHALL REMAIN OFF DURING CONSTRUCTION UNTIL COOLERS ARE PERMANENTLY COLD. REWIRE THE FACTORY INSTALLED COOLER HEATERS TO BYPASS THE FURNISHED COOLER DOOR ENERGY CONTROLLER. COOLER HEATERS ARE CONTROLLED BY PMAC UNITS. ALL LIGHTS AND HEATERS CONTROLLED BY EMS THROUGH PMAC UNITS. RE: LII-E510. COORDINATE WITH QT REPRESENTATIVE.

4 ELECTRICAL WIRING FOR COOLERS AND FREEZERS TO RUN EXTERIOR OF BOX WHEN POSSIBLE. DO NOT RUN CONDUITS ON INTERIOR CEILING OF BOX. SEAL ALL COOLER/FREEZER PENETRATIONS WITH CLEAR SILICONE INCLUDING SEAL-OFF FITTINGS WITH LISTED SEALANT FOR CONDUIT INTERIORS.

5 PROVIDE TAYLOR 1106J WALL THERMOMETER ABOVE EMPLOYEE DOOR.

6 ALL RECEPTACLES FOR DRINK BARS FED WITH CONDUIT RUNS FROM ABOVE THROUGH MILLWORK CAVITY. RE: E505.

7 INSTALL EQUIPMENT ABOVE DOOR, SUSPENDED FROM STRUCTURE ABOVE. RE: A1-E602 AND QT INSTALL DRAWINGS FOR MORE INFORMATION.

8 PROVIDE J-BOX ABOVE CEILING WITH 3/4" CONDUIT INTO STOREFRONT FRAME MINIMUM OF 6" FOR LOW VOLTAGE CABLING TO PINHOLE CAMERAS. RE: INSTALL DRAWINGS FOR CAMERA LOCATIONS.

9 PROVIDE POWER/DATA OUTLETS FOR VIDEO MONITOR MOUNTED AT 10'-6" AFF. RE: MI-E502. PROVIDE TV55 RECEPTACLE LEVITON MODEL 5380-0Y. VERIFY EXACT LOCATION AND QUANTITY WITH ARCHITECTURAL DRAWINGS AND QT REP. RE: LOW VOLTAGE DRAWINGS FOR MORE INFORMATION ON LOW VOLTAGE WIRING.

10 MOUNT TWO GANG J-BOX FLUSH MOUNTED 58" AFG WITH 3/4" CONDUIT AND PULL STRING UP TO ACCESSIBLE SPACE ABOVE CEILING FOR SECURITY CAMERA / BUZZER FURNISHED BY QT.

11 NOT USED.

12 PROVIDE RECEPTACLE FOR CANOPY DRAIN HEAT TRACE CABLE. RE: E105 FOR CONTINUATION. RE: FI-E502 FOR DETAIL.

13 PROVIDE J-BOX WITH LEVITON #1221-DL TOGGLE SWITCH AND COVER PLATE FOR MOTORIZED SHADE, RECESSED IN WALL OR CEILING AS INDICATED ON DETAIL. ROUTE 50-CORD FROM SHADE EXPOSED NEATLY AND TERMINATED INTO FACEPLATE OF J-BOX. RUN 12/3 MC CABLE TO WINDOWSHADE CONTROLLER IN ELECTRICAL ROOM. RE: A1-E503 FOR LOCATION OF CONTROLLER AND E506 FOR WIRING DIAGRAM & DETAILS.

14 ROUTE CIRCUITING THROUGH EMERSON CONTROL BOARD LOCATED IN CONDENSING UNIT. RE: QT INSTALL DRAWINGS FOR WIRING DIAGRAM.

15 ELECTRONIC DOOR HARDWARE - MOUNT POWER SUPPLY ABOVE CEILING AND FEED WITH UNSWITCHED LEG OF NEAREST 120V LIGHTING CIRCUIT. RUN LOW VOLTAGE WIRING BETWEEN HINGE SET, RELEASE SWITCHES, MAGNETS, AND SENSORS, AND CONTROL UNIT AT CHECKSTAND. RE: FII-E502.

16 PROVIDE 120V POWER TO VAV DIFFUSER POWER MODULE. ROUTE CONTROL WIRING TO THERMOSTAT AND DIFFUSER CONTROL DAMPER. RE: MI01 & M601 FOR MORE INFORMATION.

17 PROVIDE HUBBELL #RR57300 IN-USE COVER.

18 PROVIDE TV55 RECEPTACLE, LEVITON MODEL 5380-B. ROUTE CIRCUIT THROUGH BELOW GRADE CONDUIT. RE: EI02.

19 NOT USED.

20 PROVIDE 3/4" CONDUIT WITH PULL STRING UP TO ACCESSIBLE SPACE ABOVE CEILING FOR EMERSON.

21 ROUTE CIRCUITING TO/FROM ASSOCIATED CONDENSING UNIT. RE: E105 FOR CONTINUATION.

22 RE: ELEVATION FOR CIRCUIT NUMBER AND DEVICE LOCATION.

23 CO2 VENTILATION EXHAUST FAN BY MECHANICAL CONTRACTOR. RE: MI01 & EI06 FOR MORE INFORMATION.

24 ROUTE SOLENOID POWER THROUGH EMERSON CONTROL BOARD LOCATED IN CONDENSING UNIT. RE: QT INSTALL DRAWINGS FOR WIRING DIAGRAM.

25 PROVIDE SURFACE MOUNTED J-BOX AND 1/2" CONDUIT FOR COOLER SECURITY DEVICE. RE: QT SECURITY DRAWINGS.

26 PROVIDE CO2 EXHAUST FAN MANUAL START SWITCH. ROUTE CIRCUIT THROUGH RELAY WITHIN EMERSON PANEL. RE: FI3-E510 FOR RELAY WIRING DIAGRAM.

27 PROVIDE EMPTY CONDUIT(S) WITH PULL STRING ROUTED ABOVE CEILING FOR MONUMENT OR HIGH RISE SIGN. ROUTE CONDUIT THROUGH FURRED OUT WALL IN BACK ROOM, ABOVE CEILING, AND DOWN TO ELECTRICAL CHASES SERVING CHECKSTAND. RE: EI02 FOR CONTINUATION.

28 INSTALL QT-FURNISHED LOCK BOX WITHIN 3' OF NITROGEN GENERATOR. CONNECT LOCKOUT TO NITROGEN GENERATOR WITH INCLUDED POWER CORDS. RE: LOW VOLTAGE DRAWINGS.

29 PROVIDE RECESSED RCPT TYPICAL OF LEVITON #010-00684-00E, MOUNT RCPT FLUSH WITH TILE.

A1 ELECTRICAL POWER FLOOR PLAN — 1/4" = 1'-0"

NORTH

A5 PLAN NOTES

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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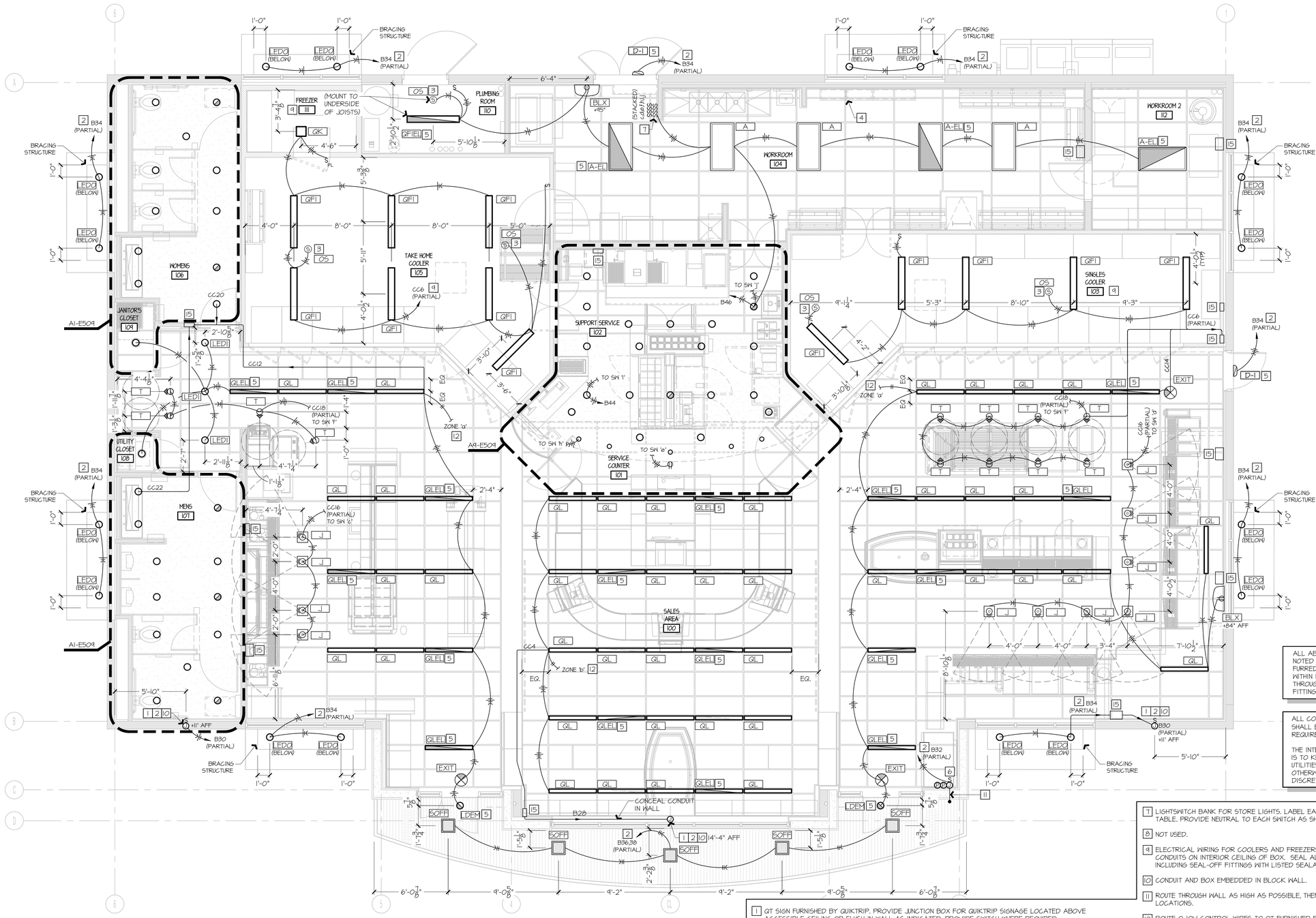
ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL POWER FLOOR PLAN

SHEET NUMBER:
E103



REFER TO SHEET E601 FOR LIGHTING CONTROLS.

REFER TO SHEET E601 FOR [*] LIGHT FIXTURE CALLOUTS.

REFER TO SHEET E602 FOR [*] EQUIPMENT CALLOUTS.

ALL DEVICES SHOWN WITH CIRCUIT PANEL DESIGNATION SHALL BE HOME-RUN WITH 3#12 IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. DO NOT SHARE NEUTRALS UNLESS SPECIFICALLY NOTED.

CONTROL ZONES:
- a. SALES FLOOR SIDES EMERSON CONTROL
- b. SALES FLOOR CENTER EMERSON CONTROL
- c. COFFEE DIRECTIONAL LIGHTS
- d. FOUNTAIN DIRECTIONAL LIGHTS
- e. "KITCHENS" SIGN
- f. ROLLER GRILL LIGHTS
- g. NOT USED
- h. FRONT FSC COUNTER DOWNLIGHTS
- i. FSC CEILING DOWNLIGHTS
- j. FSC HOOD DOWNLIGHTS

ALL LIGHTING FIXTURES LOCATED ABOVE FOOD/BEVERAGE HANDLING, PREPARATION, STORAGE, DISPLAY, AND UTENSIL WASH AREAS HAVE INTEGRAL SHIELDING. ILLUMINATION LEVELS WILL MEET MINIMUM LEVELS PRESCRIBED BY HEALTH DEPT.

CONDUITS FEEDING COOLER CEILING LIGHTS MUST BE SEALED WITH SEALANT WHICH IS LISTED AND LABELED FOR THE USE TO PREVENT CONDENSATION IN GLOBES.

1. QT SIGN FURNISHED BY QUIKTRIP. PROVIDE JUNCTION BOX FOR QUIKTRIP SIGNAGE LOCATED ABOVE ACCESSIBLE CEILING OR FLUSH IN WALL AS INDICATED. PROVIDE SWITCH WHERE REQUIRED.
2. RUN THROUGH EMERSON BUILDING MANAGEMENT SYSTEM OUTSIDE LIGHTING CONTROL SYSTEM.
3. CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS INDICATED. RE: LIGHT FIXTURE SCHEDULE.
4. LIGHTING CONTROL EQUIPMENT LOCATED IN THIS AREA. RE: A1-E503 FOR ELEVATION OF THIS AREA.
5. FIXTURE EQUIPPED WITH EMERGENCY BALLAST AND BATTERY PACK FOR EGRESS LIGHTING. RUN EXTRA UNSWITCHED HOT WIRE FOR EMERGENCY FIXTURE BYPASSING LIGHTSWITCHING AS INDICATED.
6. PROVIDE JUNCTION BOX AND ALL ELECTRICAL CONNECTIONS FOR BUILDING L.E.D. LIGHTING SYSTEM. LED SYSTEM PROVIDED BY OTHERS. JUNCTION BOX SUPPLYING REMOTE POWER SUPPLIES SHALL BE LOCATED ABOVE CEILING AND ACCESSIBLE FROM LAY-IN CEILING AREA. HOLE THROUGH STRUCTURAL STEEL CHANNEL IS PROVIDED FOR CONDUIT ROUTING WHERE INDICATED.
7. LIGHTSWITCH BANK FOR STORE LIGHTS. LABEL EACH SWITCH FOR THE AREA SERVED. RE: CONTROL ZONE TABLE. PROVIDE NEUTRAL TO EACH SWITCH AS SHOWN.
8. NOT USED.
9. ELECTRICAL WIRING FOR COOLERS AND FREEZERS TO RUN EXTERIOR OF BOX WHEN POSSIBLE. DO NOT RUN CONDUITS ON INTERIOR CEILING OF BOX. SEAL ALL COOLER/FREEZER PENETRATIONS WITH CLEAR SILICONE INCLUDING SEAL-OFF FITTINGS WITH LISTED SEALANT FOR CONDUIT INTERIORS.
10. CONDUIT AND BOX EMBEDDED IN BLOCK WALL.
11. ROUTE THROUGH WALL AS HIGH AS POSSIBLE, THEN TURN UP TO ROUTE WITHIN STRUCTURE OVER TO J-BOX LOCATIONS.
12. ROUTE 0-10V CONTROL WIRES TO QT FURNISHED EMERSON LDIM BOARD AT LIGHTING PANEL. RE: A1-E503 FOR ELEVATION, RE: QT INSTALL DRAWINGS FOR LOW VOLTAGE WIRING.
13. NOT USED.
14. NOT USED.
15. JUNCTION BOX ABOVE CEILING FOR RECEPTACLE AND LIGHTING CIRCUITS. RE: E103 & E501.

ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT, UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.

ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS SHALL BE DERATED AND SIZED PER NEC TABLE 310.15(C)(1) REQUIREMENTS.

THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER UTILITIES. ALL POWER SHALL BE ROUTED BELOW GRADE UNLESS OTHERWISE NOTED. EXACT ROUTING AT CONTRACTOR'S DISCRETION.

A1	ELECTRICAL LIGHTING REFLECTED CEILING PLAN
1/4" = 1'-0"	
NORTH	
A9	PLAN NOTES

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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ELECTRICAL LIGHTING REFLECTED CEILING PLAN

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E104

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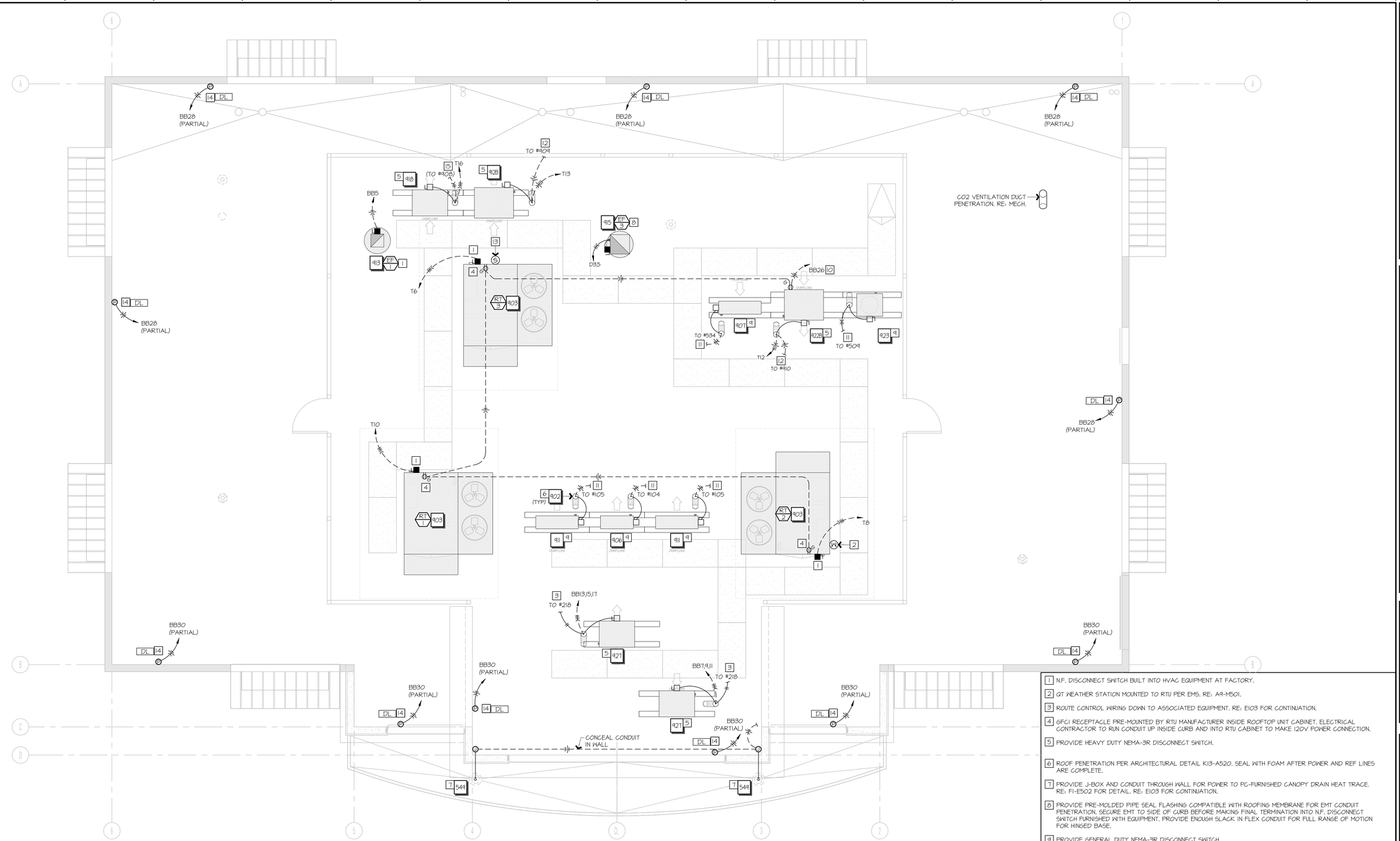
Development Services Department
Lee's Summit, Missouri
03/10/2025



NOTE: HIDDEN LINES DEPICT ELEMENTS THAT ARE BELOW THE ROOF

REFER TO SHEET E602 FOR [#] EQUIPMENT CALLOUTS.

ALL DEVICES SHOWN WITH CIRCUIT PANEL DESIGNATION SHALL BE HOME-RUN WITH 3#12 IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. DO NOT SHARE NEUTRALS UNLESS SPECIFICALLY NOTED.

REFER TO RISER DIAGRAM, SHEET E504 FOR ADDITIONAL WIRE SIZING INFORMATION.

1. N.F. DISCONNECT SWITCH BUILT INTO HVAC EQUIPMENT AT FACTORY.
2. QT WEATHER STATION MOUNTED TO RTU PER EMS. RE: A9-M501.
3. ROUTE CONTROL WIRING DOWN TO ASSOCIATED EQUIPMENT. RE: E103 FOR CONTINUATION.
4. GFCI RECEPTACLE PRE-MOUNTED BY RTU MANUFACTURER INSIDE ROOFTOP UNIT CABINET. ELECTRICAL CONTRACTOR TO RUN CONDUIT UP INSIDE CURB AND INTO RTU CABINET TO MAKE 120V POWER CONNECTION.
5. PROVIDE HEAVY DUTY NEMA-3R DISCONNECT SWITCH.
6. ROOF PENETRATION PER ARCHITECTURAL DETAIL K13-A520. SEAL WITH FOAM AFTER POWER AND REF LINES ARE COMPLETE.
7. PROVIDE J-BOX AND CONDUIT THROUGH WALL FOR POWER TO PC-FURNISHED CANOPY DRAIN HEAT TRACE. RE: FI-ES02 FOR DETAIL. RE: E103 FOR CONTINUATION.
8. PROVIDE PRE-MOLDED PIPE SEAL FLASHING COMPATIBLE WITH ROOFING MEMBRANE FOR EMT CONDUIT PENETRATION. SECURE EMT TO SIDE OF CURB BEFORE MAKING FINAL TERMINATION INTO N.F. DISCONNECT SWITCH FURNISHED WITH EQUIPMENT. PROVIDE ENOUGH SLACK IN FLEX CONDUIT FOR FULL RANGE OF MOTION FOR HINGED BASE.
9. PROVIDE GENERAL DUTY NEMA-3R DISCONNECT SWITCH.
10. PROVIDE NEW GFCI RECEPTACLE MOUNTED TO CONDENSING UNIT.
11. CIRCUITING TO/FROM ASSOCIATED EQUIPMENT BELOW. RE: E103.
12. ROUTE POWER DOWN TO SOLENOID VALVE. RE: QT INSTALL DRAWINGS FOR WIRING DIAGRAM.
13. QT IRRIGATION WEATHERMATIC SENSOR MOUNTED TO RTU. RE: QT INSTALL DRAWINGS.
14. INSTALL DOWNLIGHTING POWER PACKS ALONG ROOF EDGE. ENSURE POWER PACKS ARE INSTALLED IN WEATHERPROOF ENCLOSURE. ROUTE EXPOSED CONDUITS AS CLOSE TO ROOF EDGE AS POSSIBLE. ENSURE ALL CONDUIT IS PROPERLY SUPPORTED ON ROOF. RE: MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DOWNLIGHTING SECTION LOCATIONS AND POWER PACK WIRING.
15. ROUTE POWER DOWN TO EVAPORATOR AND SOLENOID VALVE. RE: QT INSTALL DRAWINGS FOR WIRING DIAGRAM.

A1 — ELECTRICAL ROOF PLAN
1/8" = 1'-0"

NORTH

A13 — PLAN NOTES

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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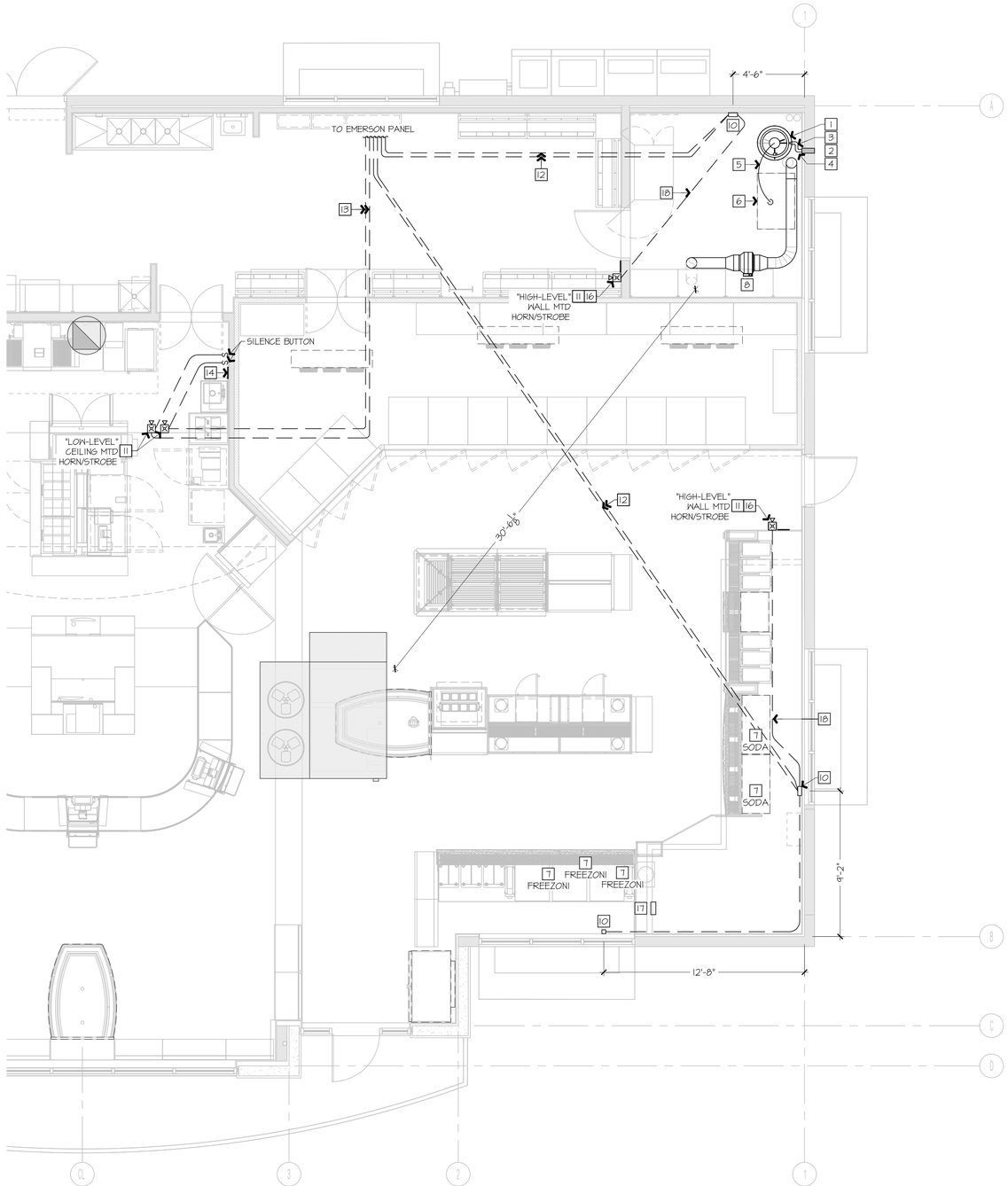
SHEET TITLE:
ELECTRICAL ROOF PLAN

SHEET NUMBER:
E105



LEGEND:

- S — SWITCH AS NOTED ON PLANS
- CO2 DETECTOR @ 12" AFG
- EXHAUST DUCT
- WARNING SIGN
- FILL BOX/VENT
- EXHAUST FAN

NOTES:

1. INSTALLATION SHALL BE IN COMPLIANCE WITH NFPA 55 CHAPTER 13 AND IFC.
2. PIPING AND FITTINGS TO BE LOCATED AND SUPPORTED TO PROTECT AGAINST DAMAGE.
3. CO2 SENSOR SENDS CO2 LEVELS TO EMERSON BUILDING MANAGEMENT MONITORING SYSTEM.

SEQUENCE OF OPERATION:

WHEN CO2 SENSOR DETECTS LOW LEVEL CO2 AT 5,000 PPM (PARTS PER MILLION) [> 3 MINUTES CONTINUOUS]:
- EXHAUST FAN ENERGIZES AND RUNS UNTIL CO2 LEVEL DROPS BELOW 5,000 PPM FOR LONGER THAN 10 MINUTES.

WHEN CO2 SENSOR DETECTS LOW LEVEL CO2 AT 5,000 PPM (PARTS PER MILLION) [> 4 HOURS CONTINUOUS]:
- EMERSON SYSTEM ACTIVATES SUPERVISORY AUDIBLE/VISUAL ALARM LOCATED IN THE FSC.
- ALARM CONTINUES UNTIL CO2 LEVEL OF THE MONITORED SPACE(S) DROPS BELOW 5,000 PPM.
- AUDIBLE ALARM MAY BE SILENCED BY PRESSING BUTTON BELOW HORN/STROBE.
- EMERSON SYSTEM CREATES A FACILITY SUPPORT "CO2 LOW LEVEL ALARM" WORK ORDER.

WHEN CO2 SENSOR DETECTS CO2 AT 20,000 PPM (PARTS PER MILLION) [INSTANTANEOUS]:
- EMERSON SYSTEM WILL CREATE A FACILITY SUPPORT "CO2 HIGH LEVEL ALARM" PRIORITY WORK ORDER.
- NO AUDIBLE/VISUAL ALERT IN THE STORE.

WHEN CO2 SENSOR DETECTS HIGH LEVEL CO2 AT 30,000 PPM (PARTS PER MILLION) [INSTANTANEOUS]:
- SENSOR SENDS CO2 LEVELS TO EMERSON BUILDING MANAGEMENT MONITORING SYSTEM WHICH NOTIFIES 24 HOUR QT SECURITY HELP DESK.
- QT SECURITY HELP DESK CALLS LOCAL EMERGENCY SERVICES AND STORE MANAGEMENT.
- SENSOR ACTIVATES AUDIBLE/VISUAL ALARM LOCATED OUTSIDE THE ROOM.
- EMERSON WILL DEACTIVATE THE LOW LEVEL ALARM.
- EMERGENCY PLAN WILL BE INITIATED BY STAFF, INCLUDING EVACUATION.
- WHEN CO2 LEVEL DROPS BELOW 28,500 PPM FOR 5 MINS THE HIGH LEVEL ALARM WILL TURN OFF.
- STORE IS NOT REOCCUPIED UNTIL FIRE DEPARTMENT INDICATES STORE IS SAFE TO DO SO.

REQUIRED TESTING:

1. ONCE THE LATEST EMERSON SET POINT FILE HAS BEEN UPLOADED BY THE QT HELPDESK, AND ONCE THE CO2 SENSOR HAS BEEN PROGRAMMED BY THE INSTALLER, THE CO2 DETECTION/ENUNCIATION SYSTEM WILL NEED TO BE TESTED AND OPERATION VERIFIED.
2. LOW VOLTAGE CONTRACTOR: REFER TO QUIKTRIP SPEC BOOK FOR THE PROPER PROCEDURE TO VERIFY SYSTEM OPERATION.
3. ENSURE THAT EXHAUST FAN ALSO RUNS WHEN MANUAL SWITCH IS TURNED ON. BE SURE THIS FAN IS NOT RUNNING DURING STORE HVAC AIR BALANCING.

QT FURNISHED ITEMS

Item	Item Description	Manufacturer & Model	Qty
A	CO2 TANK	CARBO-MIZER 750	1
B	FILL BOX	CHART #21312111	1
C	FILL PIPING	PARKER HANNIFIN 540P	*
D	RELIEF VENT PIPING	PARKER HANNAFIN SERIES NR	*
E	BEVERAGE SUPPLY PIPING	FLEX-TECH PEB FDA/NSF-51	*
F	CO2 DETECTOR	BACHARACH M65-550	2
G	CO2 REMOTE SENSOR	BACHARACH SENSOR & CABLING	1
H	HORN/STROBE	**	4
J	SILENCE BUTTON	EMERSON #826824	2
K	VENTILATION FAN	CAPTIVEAIRE #DFA-300-CA	1
L	CO2 LEAK GUARD	EMERSON #830532	2
M	REMOTE SENSOR CAGE	EMERSON #832256	2

* - CONTRACTOR TO CUT LENGTH OF PIPING NECESSARY TO COMPLETE THE SYSTEM.
** - MODEL VARIES BASED ON JURISDICTION. RE: QT INSTALL DRAWINGS.

1 MULTIPLEX REFRIGERATION AND SYRUP MIXING UNIT BY SODA SUPPLIER.

2 FREEZONI OR SODA FOUNTAIN.

3 CO2 VENTILATION FAN FURNISHED BY QT. RE: M601, E103 & E602 FOR MORE INFORMATION.

4 NOT USED.

5 INSTALL OWNER-FURNISHED CO2 DETECTOR WITH LOCAL SENSOR, REMOTE SENSOR AND LEAK GUARD AT 1'-0" AFF WHERE INDICATED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

6 OWNER-FURNISHED HORN/STROBE INSTALLED BY ELECTRICAL CONTRACTOR.

7 LOW VOLTAGE FROM EMERSON PANEL TO CO2 DETECTOR. (2) CO2 DETECTOR OUTPUTS AND (1) 24V EMERSON OUTPUT. RE: QT INSTALL DRAWINGS.

8 LOW VOLTAGE FROM EMERSON PANEL TO LOW LEVEL HORN/STROBE. (1) 24V EMERSON OUTPUT. RE: QT INSTALL DRAWINGS.

9 INSTALL OWNER-FURNISHED LOW LEVEL HORN/STROBE SILENCE BUTTON. LABEL AS "LOW LEVEL CO2 DETECTION SILENCE BUTTON."

10 NOT USED.

11 INSTALL OWNER-FURNISHED ACCOMPANYING SIGNAGE NEAR HORN/STROBE(S). RE: ARCHITECTURAL DRAWINGS FOR SIGNAGE.

12 MECHANICAL CONTRACTOR PROVIDED TRANSFER GRILLE. RE: A1-M101.

13 LOW VOLTAGE FROM CO2 DETECTOR TO HORN/STROBE (1) 24V OUTPUT. RE: QT INSTALL DRAWINGS.

14 CO2 TANK. TANK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE EMERGENCY SHUT OFF VALVE TAG ON SUPPLY LINE AND REQUIRED SIGNAGE PER NFPA REQUIREMENTS.

15 FILL BOX WITH RELIEF VENT.

16 FILL PIPING, HOSE LISTED FOR USE WITH CO2. LABEL PIPING A MINIMUM OF EVERY 20' WITH PRODUCT DESCRIPTION AND FLOW DIRECTION.

17 RELIEF VENT PIPING, HIGH STRENGTH NYLON TUBING. LABEL PIPING A MINIMUM OF EVERY 20' WITH PRODUCT DESCRIPTION AND FLOW DIRECTION.

18 SUPPLY PIPING, POLYETHYLENE BEVERAGE HOSE. LABEL PIPING A MINIMUM OF EVERY 20' WITH PRODUCT DESCRIPTION AND FLOW DIRECTION.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL
CO2 DETECTION AND
VENTILATION
FLOOR PLAN

SHEET NUMBER:
E106

A1	ELECTRICAL CO2 DETECTION AND VENTILATION FLOOR PLAN	NORTH	A10	BILL OF MATERIALS	A13	PLAN NOTES	G13	NOTES AND SPECIFICATIONS
1/4" = 1'-0"								

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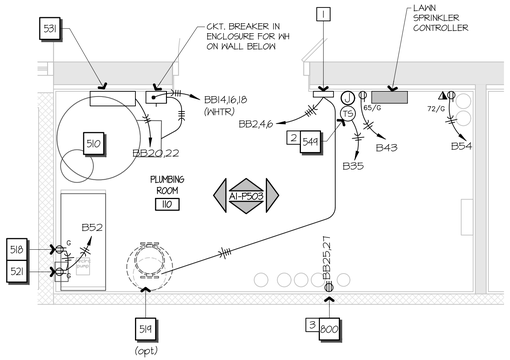
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



L1 ELECTRICAL ENLARGED PLUMBING ROOM

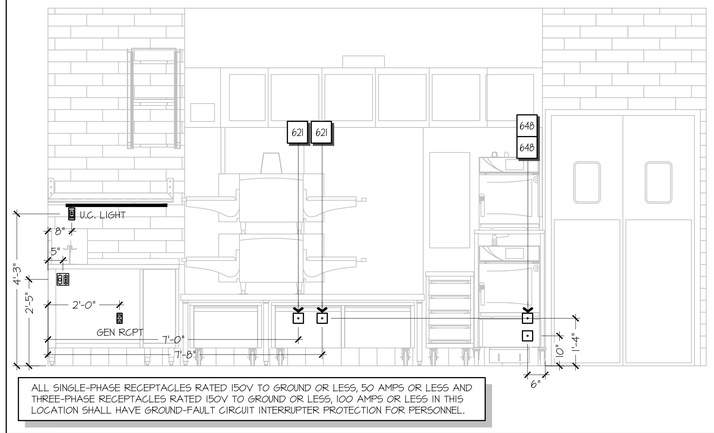
3/4" = 1'-0" | A1-E103

1 OPTIONAL DISCONNECT SWITCH, CONTROLLER, AND FINAL CONNECTION TO WATER BOOSTER PUMP. VERIFY ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION. RE: PLUMBING DRAWINGS FOR ELEVATIONS OF THIS WALL. IF NO BOOSTER PUMP IS BEING INSTALLED, THEN FURNISH JUNCTION BOXES AND EMPTY CONDUIT TO CEILING FOR FUTURE USE. RE: E602.

2 INSTALL PLUMBING CONTRACTOR-FURNISHED OUTDOOR AMBIENT AIR THERMOSTAT AND CONNECT WIRING AS REQUIRED TO CONTROL CANOPY DRAIN HEAT TRACE. MOUNT ON WALL WITH PILOT-LIGHT SWITCH. RE: FI-E502.

3 ROUTE L.V. WIRING ALONGSIDE POWER WASHER TUBING TO REMOTE BOXES FOR POWER WASHER CONTROLS. RE: AI3-E510 FOR L.V. WIRING BETWEEN REMOTE BOXES AND POWER WASHER CONTROLLER.

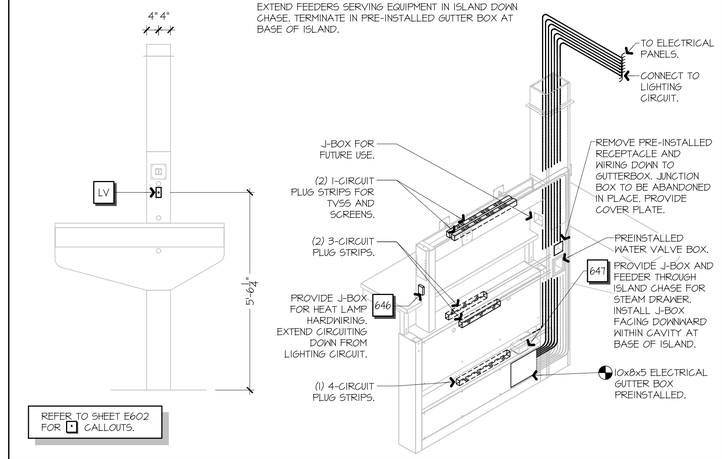
L4 PLUMBING ROOM NOTES



ALL SINGLE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50 AMPS OR LESS AND THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100 AMPS OR LESS IN THIS LOCATION SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.

L7 FSC REAR ELEVATION

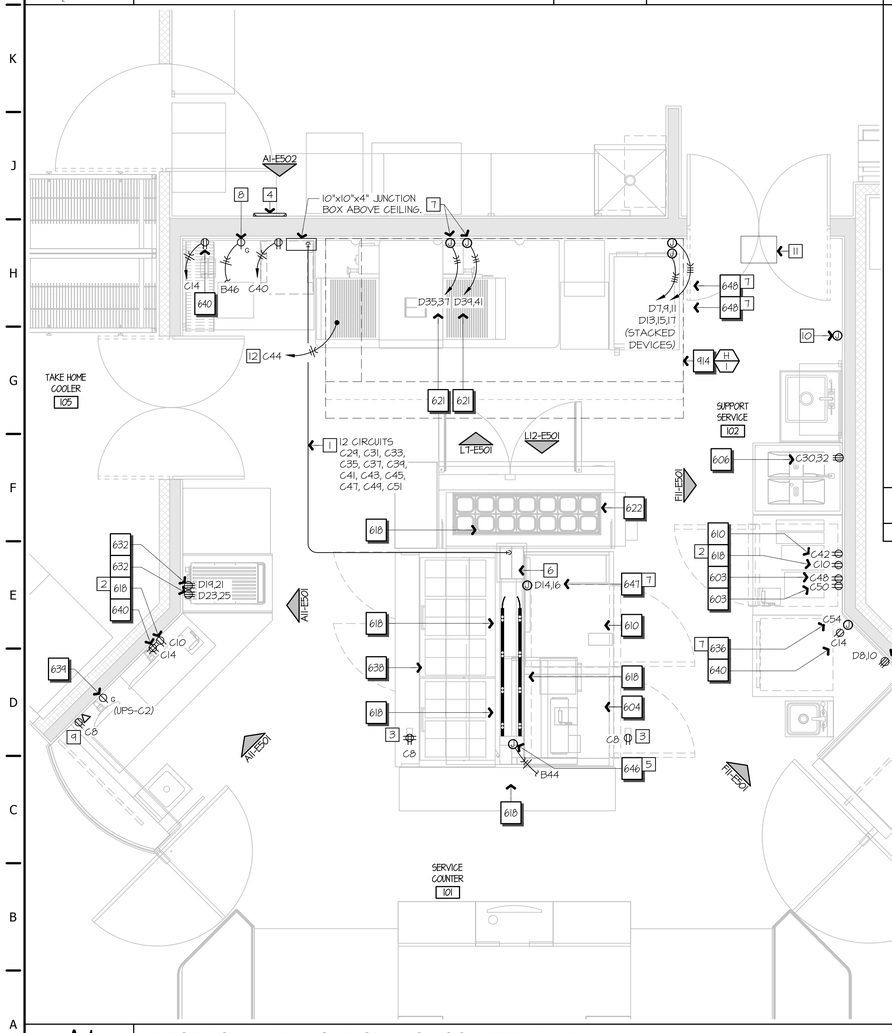
3/4" = 1'-0" | A1-E501



REFER TO SHEET E602 FOR ◆ CALLOUTS.

L12 FSC ISLAND ISOMETRIC

3/4" = 1'-0" | A1-E501



A1 ELECTRICAL ENLARGED SERVICE COUNTER PLAN

3/4" = 1'-0" | A1-E103

1 PROVIDE CIRCUITING TO FSC ISLAND. ROUTE CIRCUITS ABOVE CEILING FROM JUNCTION BOX TO FSC ISLAND CHASE. RE: E102 FOR BELOW GRADE CONDUIT ROUTING. FIVE MULTI-CIRCUIT PLUG STRIPS WITH MC CABLE WHIPS PRE-MOUNTED IN ISLAND. RE: L12-E501.

2 PROVIDE TV55 RECEPTACLE, LEVITON MODEL 5380-B.

3 TV55 RECEPTACLE, LEVITON MODEL 5380-B SURFACE MOUNTED TO MONITOR SUPPORT. INSTALL JUST BELOW CEILING TOWARDS THE CENTER.

4 PATCH PANEL. RE: QT INSTALL DRAWINGS.

5 PROVIDE J-BOX ON THE FACE OF THE ISLAND FOR EQUIPMENT [646] HARDWIRE CONNECTION. EXTEND CIRCUITING FROM LIGHTING CIRCUIT SWITCHED LEG. RE: E104. PROVIDE LABEL ON J-BOX WITH CIRCUIT NUMBER. LOCKABLE CIRCUIT BREAKER SHALL ACT AS A MEANS OF DISCONNECT PER NEC SECTION 422.31(B).

6 REMOVE PREINSTALLED RECEPTACLE AND WIRING DOWN TO GUTTER BOX. RE: L12-E501.

7 PROVIDE HARD CONNECTION TO EQUIPMENT. PROVIDE LABEL ON JUNCTION BOX WITH CIRCUIT NUMBER. LOCKABLE CIRCUIT BREAKER SHALL ACT AS MEANS OF DISCONNECT PER NEC SECTION 422.31(B). ENSURE A MINIMUM OF 4' OF EXTRA CORD IS PROVIDED ON ALL HARDWIRED EQUIPMENT FOR MAINTENANCE.

8 PROVIDE GFCI SIMPLEX RECEPTACLE AND CONNECT TO FSC LIGHTING CIRCUIT. RE: E504.

9 TV55 RECEPTACLE, LEVITON MODEL 5380-B MOUNTED ON WALL ADJACENT TO MENU BOARD. INSTALL DATA OUTLET FOR MENU BOARD. RE: FI1-E501, AI1-E501.

10 PROVIDE SINGLE-GANG J-BOX AND 1/2" CONDUIT TO HOOD FOR HOOD SUPPRESSION PUSH STATION. RE: FI1-E501 FOR ELEVATION.

11 INSTALL MANUFACTURER FURNISHED HOOD EQUIPMENT SHUTDOWN CONTACTOR BOX ABOVE CEILING ADJACENT TO HOOD IN AN ACCESSIBLE LOCATION. RE: F8-E510 FOR WIRING DIAGRAM.

12 EXTEND 120V POWER FROM HOOD CONTROL PANEL TO EMERSON BUILDING MANAGEMENT SYSTEM FOR HOOD ENABLE. RE: LOW VOLTAGE DRAWINGS FOR WIRING DIAGRAM. RE: HOOD MANUFACTURER WIRING DIAGRAM.

F7 SERVICE COUNTER PLAN NOTES

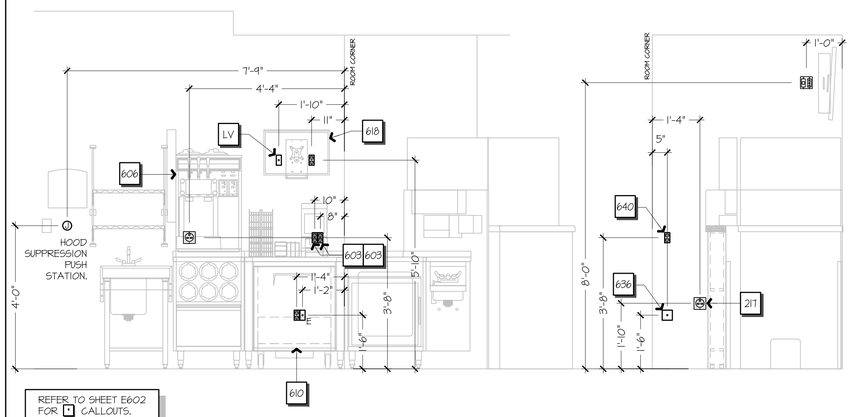
REFER TO QT INSTALL DRAWINGS FOR DETAILS OF THIS AREA WITH EXACT LOCATIONS OF DEVICES.

ALL SINGLE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50 AMPS OR LESS AND THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100 AMPS OR LESS IN THIS LOCATION SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.

ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT, UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.

ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS SHALL BE DERATED AND SIZED PER NEC TABLE 310.15(C)(1) REQUIREMENTS.

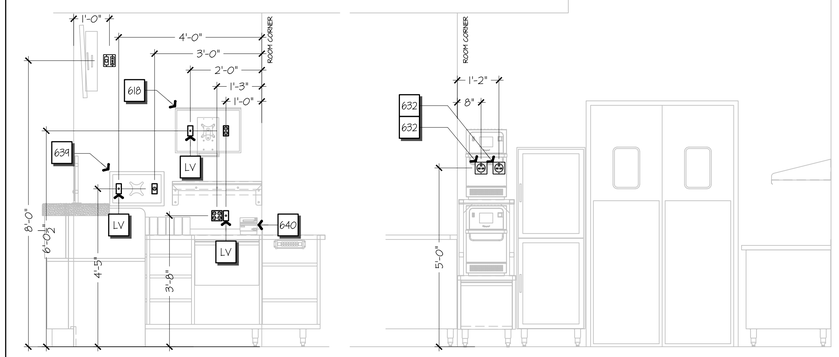
THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER UTILITIES. ALL POWER SHALL BE ROUTED BELOW GRADE UNLESS OTHERWISE NOTED. EXACT ROUTING AT CONTRACTOR'S DISCRETION.



REFER TO SHEET E602 FOR ◆ CALLOUTS.

F11 FSC RIGHT ELEVATION

3/4" = 1'-0" | A1-E501



REFER TO SHEET E602 FOR ◆ CALLOUTS.

A11 FSC LEFT ELEVATION

3/4" = 1'-0" | A1-E501

NORTH

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NUMBER PE-2007023868
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SIGNATURE DATE: 11/25/2024

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SHEET TITLE:
ELECTRICAL ENLARGED PLANS

SHEET NUMBER:
E501

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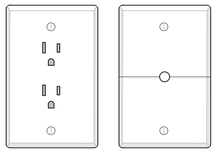
Development Services Department
Lee's Summit, Missouri
03/10/2025

SINGLE-GANG DUPLEX TV55 RECEPTACLE (BLUE FOR TV55 RECEPTACLE WITH GRAY COVER PLATE).



LEVITON 1-GANG HORIZONTAL SPLIT PLATE WITH HOLE FOR A/V CABLE PASS-THROUGH. (GRAY TO MATCH RECEPTACLE)

M1 POWER / DATA OUTLET

NOT TO SCALE

2-GANG J-BOX LOCATED ABOVE CEILING. CONNECT TWO BOXES TO EACH OTHER PER PLANS, CONCEAL BOXES AND CONDUITS AS MUCH AS POSSIBLE.

3/4" CONDUIT THROUGH WALL BELOW ROOFING TERMINATION BAR WITH APPROVED ROOFING PENETRATION DETAIL. RE: E105 FOR THROUGH WALL LOCATION. TURN ELBOW POINTING DOWN. SEAL WEATHERPROOF AFTER CABLE IS ROUTED.

POWER FROM THERMOSTAT IN SUPPORT ROOM.

CANOPY HEAT TRACE CABLE BY PLUMBING CONTRACTOR ROUTED DOWN ROOF DRAIN.

POWER TO HEAT TRACE GFCI RECEPTACLES. SEE PLAN FOR LOCATIONS AND QTY.

HOME RUN POWER FOR SYSTEM.

BUILDING CANOPY.

INSTALL CANOPY HEAT TRACE THERMOSTAT IN SUPPORT ROOM. RE: E501. RUN SENSOR BULB OUT THROUGH WALL AT APPROX 8'-0" AFF WITH 1/2" CONDUIT SLEVE. SEAL PENETRATION THROUGH WALL, AND ATTACH BULB TO WALL POINTING DOWN.

PROVIDE A WALL SWITCH WITH PILOT LIGHT AT 48" AFF AND PROVIDE PERMANENT LABEL THAT READS, "CANOPY ICE MELT SYSTEM ENERGIZED WHEN LIT".

PROVIDE LEVITON #GFPLI-PLN GFCI RECEPTACLE WITH PILOT LIGHT. PROVIDE PERMANENT LABEL THAT READS, "CANOPY ICE MELT ACTIVATED WHEN LIT".

WIRE HEAT TRACE TO LOAD TERMINALS OF GFCI RECEPTACLE. MIN 30 MA SENSITIVITY PER NEC.

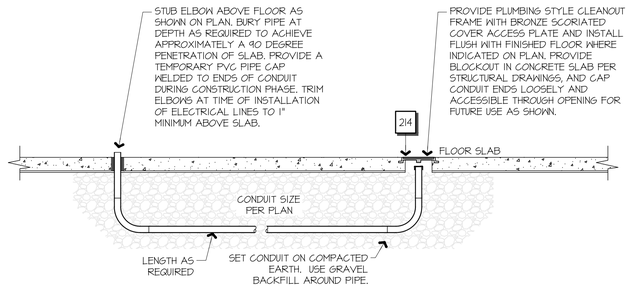
ELECTRICAL CONTRACTOR SHALL INSTALL ELECTRICAL JUNCTION BOX WITH EMT CONDUIT THROUGH EXTERIOR WALL, SLOPED TO DRAIN, WITH ELBOW POINTING DOWN ON OUTDOOR SIDE OF WALL. AFTER HEAT TRACE CABLE IS INSTALLED, E.G. TO SEAL CONDUIT WEATHER-TIGHTS WITH SEALANT OR SPRAY INSULATION. PROVIDE GFCI PROTECTION FOR HEAT TRACE CABLE PER NEC REQUIREMENTS.

F1 CANOPY DRAIN HEAT TRACE

NOT TO SCALE | A1-E103, A1-E105

STUB ELBOW ABOVE FLOOR AS SHOWN ON PLAN. BURY PIPE AT DEPTH AS REQUIRED TO ACHIEVE APPROXIMATELY A 90 DEGREE PENETRATION OF SLAB. PROVIDE A TEMPORARY PVC PIPE CAP WELDED TO ENDS OF CONDUIT DURING CONSTRUCTION PHASE. TRIM ELBOWS AT TIME OF INSTALLATION OF ELECTRICAL LINES TO 1" MINIMUM ABOVE SLAB.

PROVIDE PLUMBING STYLE CLEANOUT FRAME WITH BRONZE SCORIATED COVER ACCESS PLATE AND INSTALL FLUSH WITH FINISHED FLOOR WHERE INDICATED ON PLAN. PROVIDE BLOCKOUT IN CONCRETE SLAB PER STRUCTURAL DRAWINGS, AND CAP CONDUIT ENDS LOOSELY AND ACCESSIBLE THROUGH OPENING FOR FUTURE USE AS SHOWN.



RIGID NON-METALLIC CONDUIT (RNC) AND FITTINGS WITH SOLVENT-WELDED JOINTS IN SIZE PER PLAN. USE MINIMUM QUANTITY OF FITTINGS REQUIRED. PROVIDE LONG SWEEP 90°S AT BOTH ENDS. AVOID ELBOWS IN HORIZONTAL RUN IF AT ALL POSSIBLE.

J6 UNDERGROUND CHASE

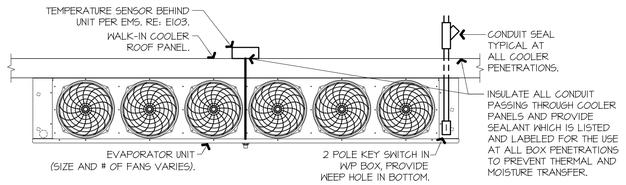
NOT TO SCALE | A1-E102

TEMPERATURE SENSOR BEHIND UNIT PER EMS. RE: E103.

WALK-IN COOLER ROOF PANEL.

CONDUIT SEAL TYPICAL AT ALL COOLER PENETRATIONS.

INSULATE ALL CONDUIT PASSING THROUGH COOLER PANELS AND PROVIDE SEALANT WHICH IS LISTED AND LABELED FOR THE USE AT ALL BOX PENETRATIONS TO PREVENT THERMAL AND MOISTURE TRANSFER.



EVAPORATOR UNIT (SIZE AND # OF FANS VARIES).

2 POLE KEY SWITCH IN WP BOX, PROVIDE WEEP HOLE IN BOTTOM.

F6 EVAPORATOR POWER

NOT TO SCALE | A1-E103

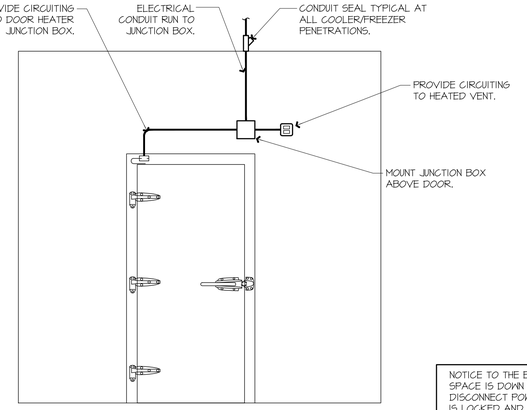
PROVIDE CIRCUITING TO DOOR HEATER JUNCTION BOX.

ELECTRICAL CONDUIT RUN TO JUNCTION BOX.

CONDUIT SEAL TYPICAL AT ALL COOLER/FREEZER PENETRATIONS.

PROVIDE CIRCUITING TO HEATED VENT.

MOUNT JUNCTION BOX ABOVE DOOR.



NOTICE TO THE ELECTRICAL CONTRACTOR: ENSURE REFRIGERATED SPACE IS DOWN TO TEMPERATURE BEFORE INITIALIZING HEATERS. DISCONNECT POWER TO DOOR; ENSURE CIRCUIT BREAKER IS OFF AND IS LOCKED AND TAGGED.

L11 HEATER WIRE CONNECTION ON FREEZER DOOR

1/2" = 1'-0" | A1-E103

POWER FROM LIGHTING CIRCUIT.

TO CONTROL PANEL IN CHECKSTAND. RE: A1-E501.

CEILING

ELECTRONIC DOOR HARDWARE POWER SUPPLY ABOVE CEILING. RE: E103.

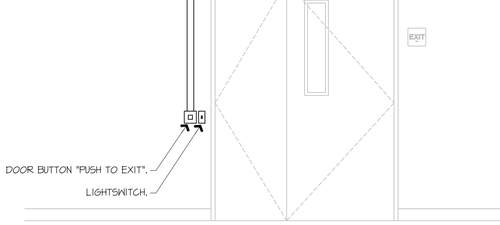
EXIT

AIR CURTAIN

EXIT

DOOR BUTTON "PUSH TO EXIT".

LIGHTSWITCH.



F11 REAR SECURITY DOOR WIRING DIAGRAM

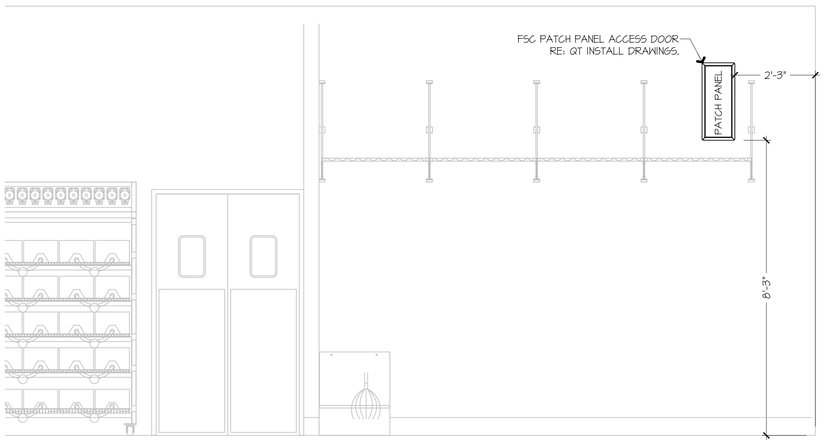
3/4" = 1'-0" | A1-E103

FSC PATCH PANEL ACCESS DOOR RE: QT INSTALL DRAWINGS.

PATCH PANEL

2'-3"

8'-3"



A1 WORKROOM ELEVATION

3/4" = 1'-0" | A1-E501

SEE QT REPRESENTATIVE FOR APPLICATION

BRICK WALL

BACKFILL ALL CONDUITS WITH FLOWABLE FILL TO 510" FROM BUILDING. A INTEGRAL RED DYE FLOWABLE FILL OR CONCRETE SHALL BE USED AT ALL ELECTRICAL CONDUIT TRENCHES UNDER BUILDING SIDEWALK, TYP.

TRENCH FOR UTILITY LINES (DIMENSIONS VARY IN BOTH DIRECTIONS)

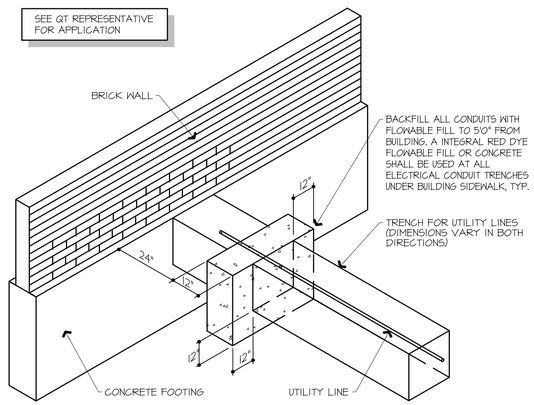
12"

24"

12"

12"

12"



CONCRETE FOOTING

UTILITY LINE

A7 UNDERGROUND UTILITY SERVICE

NOT TO SCALE

HILTI CC2T CLIP, OR EQUAL.

LIGHTING FIXTURES WEIGHING LESS THAN 56 LBS SHALL HAVE TWO #12 HANGERS CONNECTED FROM OPPOSITE SIDES OF THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.

LIGHTING FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

PENDANT-HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE WITH #9 WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.

LAY-IN FIXTURES IN SUSPENDED CEILING GRID: INSTALL FIXTURES PER NEC AND ASTM STANDARDS. FRAMING MEMBERS OF SUSPENDED CEILING SYSTEMS USED TO SUPPORT FIXTURES SHALL BE SECURELY FASTENED TO EACH OTHER AND SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE AT APPROPRIATE INTERVALS. RE: ARCHITECTURAL FOR SPECIFICATIONS AND SUPPORT REQUIREMENTS FOR CEILING GRID.

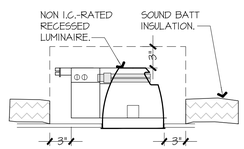
NON I.C.-RATED RECESSED LUMINAIRE.

SOUND BATT INSULATION.

3"

3"

3"

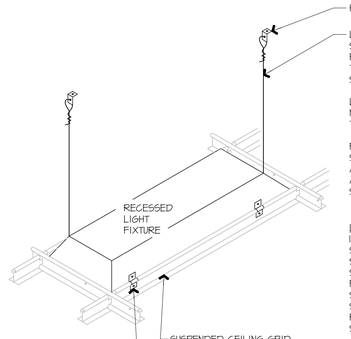


RESTROOM RECESSED LIGHT FIXTURES: FOR NON I.C. RATED RECESSED LIGHT FIXTURES IN INSULATED CEILINGS, INSTALLER MUST MAINTAIN AT LEAST 1/2" CLEARANCE FROM FIXTURE (NOT INCLUDING MOUNTING HARDWARE) TO COMBUSTIBLE MATERIAL AND AT LEAST 3" CLEARANCE TO INSULATION.

RECESSED LIGHT FIXTURE

SUSPENDED CEILING GRID.

ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS SUCH AS BOLTS, SCREWS, OR RIVETS, OR LISTED CLIPS IDENTIFIED FOR THIS USE, IE; ERICO CADDY-SFCLT SEISMIC FIXTURE CLAMPS.



A11 LIGHT FIXTURE MOUNTING DETAILS

NOT TO SCALE

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

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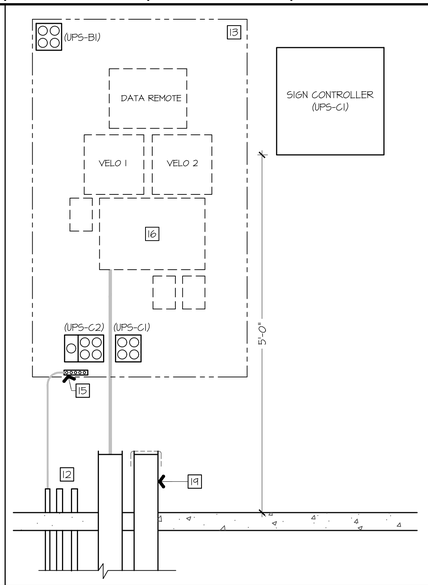
Lee's Summit, Missouri
03/10/2025

K1 NOT USED

K6 TELEPHONE WALL ELEVATION

1" = 1'-0" | A1-E103

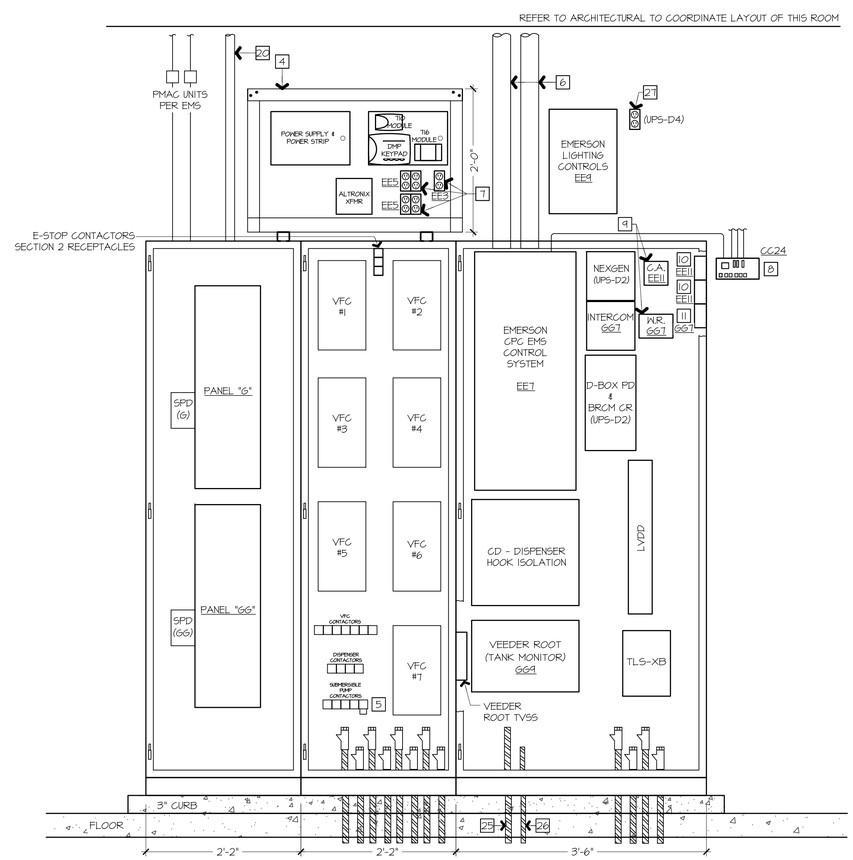


K9 PLAN NOTES

1. INSTALL QT-FURNISHED BYPASS PANEL. FIELD WIRE FROM CIRCUITS INDICATED.
2. ROUTE UPS CIRCUITS FROM UPS BYPASS PANELS TO LOADS INDICATED IN THE UPS LOAD SUMMARIES. RE: A1-E610. RE: A8-E510 FOR WIRING DIAGRAM.
3. INSTALL INLET AND OUTLET PLUGS FROM UPS DEVICES MOUNTED IN RACK TO BYPASS PANEL.
4. SECURITY SYSTEM ENCLOSURE FURNISHED BY PANEL MANUFACTURER. INSTALL ALL COMPONENTS, FURNISHED BY OTHERS. CONNECT TO RCPT IN LOW VOLTAGE CABINET.
5. CANOPY SUMP FAN MOTOR STARTER.
6. (2) 3" CONDUITS FOR WIRING TO EMERSON PANEL.
7. CONTRACTOR TO PROVIDE SURFACE MOUNTED RECEPTACLES AT THIS LOCATION.
8. WINDOWSHADE CONTROLLER. RE: K1-E506.
9. CUSTOMER ALERT & WARREN ROGERS.
10. QUAD IS PREMOUNTED IN CABINET.
11. DUPLEX IS PREMOUNTED IN CABINET.
12. (2) 1" CONDUITS FOR UPS POWER TO CHECKSTAND. RE: E102.
13. 36X60 PLYWOOD BACKBOARD FOR TELEPHONE SYSTEM COMPONENTS AS REQUIRED BY LOCAL TELEPHONE COMPANY.
14. ROUTE #6 GROUND TO GROUND BAR ON TELEPHONE BOARD. RE: K6-E503.
15. PROVIDE 3/4" CONDUIT TO GROUND BAR FOR TELEPHONE EQUIPMENT AND SECURITY RACK. BOND GROUND BAR TO SERVICE ENTRANCE GROUNDING AS NOTED ON ELECTRICAL RISER DIAGRAM.
16. TELEPHONE EQUIPMENT AS REQUIRED BY LOCAL TELEPHONE COMPANY.
17. NOT USED.
18. NOT USED.
19. (2) 4" PHONE ENTRY CONDUITS. RE: E102. (CAP ANY UNUSED CONDUITS).
20. (1) CONDUIT FOR PANEL "G" FEEDER. RE: E504.
21. SURFACE MOUNT ALL CONDUITS WITHIN THIS VICINITY.
22. PROVIDE TVSS RECEPTACLE, LEVITON MODEL 5490-W.
23. NOT USED.
24. NOT USED.
25. PROVIDE 1" CONDUIT FOR CONTROL WIRES FROM EMERSON PANEL TO HOOD ENABLE CURRENT TRANSFORMERS.
26. PROVIDE 3/4" CONDUIT FOR EMERSON PANEL GROUNDING. BOND TO SERVICE ENTRANCE GROUNDING AS NOTED ON ELECTRICAL RISER DIAGRAM.
27. PROVIDE DUPLEX TO SERVE PPD ALARM PANEL. RE: QT INSTALL DRAWINGS FOR EXACT LOCATION.

A1 INTERIOR ELECTRICAL PANEL WALL ELEVATION

1" = 1'-0" | A1-E103



ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS SHALL BE DERATED AND SIZED PER NEC TABLE 310.15(C)(1) REQUIREMENTS.

THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER UTILITIES. ALL POWER SHALL BE ROUTED BELOW GRADE UNLESS OTHERWISE NOTED. EXACT ROUTING AT CONTRACTOR'S DISCRETION.

EXPLOSION PROOF SEAL-OFF, ONE PER CONDUIT TO GAS ISLANDS; NOT NECESSARILY ALL CONDUITS OR WIRING REQUIRED FOR GAS SYSTEMS ARE SHOWN HERE. REFER TO GASOLINE INSTALLATION PLANS FOR FURTHER INFORMATION ON GAS EQUIPMENT, CANOPY, CONDUITS, ETC.

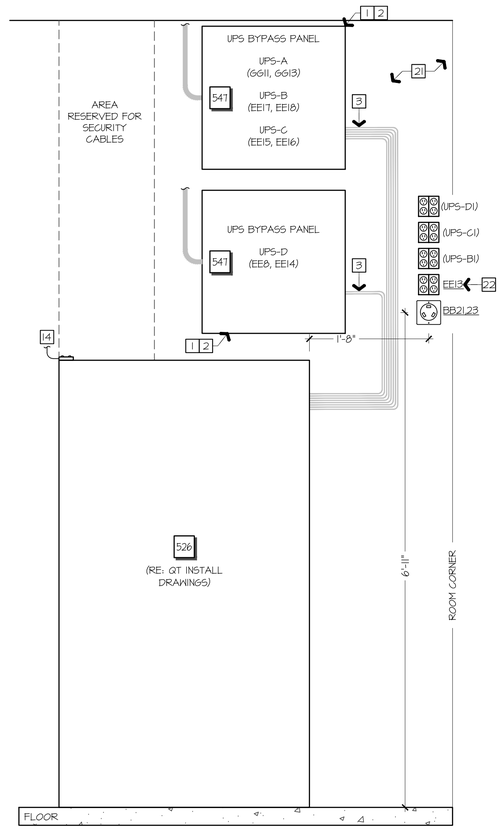
NOTE: SEALOFFS MUST BE OFFSET 5 INCHES TO CLEAR EQUIPMENT MOUNTED AT BOTTOM OF PANEL. 5" DEPTH MEASURED FROM BACK OF PANEL TOWARDS DOOR OF CABINET. NO WIREWAY PROVIDED.

USE FLOOR TEMPLATE FURNISHED BY ELECTRICAL PANEL MANUFACTURER TO LAYOUT FLOOR CONDUIT PENETRATIONS.

RE: FUEL DRAWINGS FOR EXACT PUMP CONTROLLER AND MPD QUANTITIES.

A13 SECURITY RACK ELEVATION

1" = 1'-0" | A1-E103



STATE OF MISSOURI
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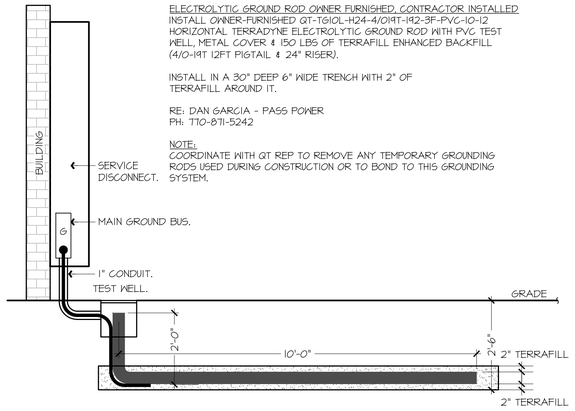
J1 ELECTROLYTIC GROUND ROD

3/4" = 1'-0"

A1-E102, A1-E504, A1-E511



ELECTROLYTIC GROUND ROD OWNER FURNISHED, CONTRACTOR INSTALLED
INSTALL OWNER-FURNISHED GT-T6IOL-H24-4/0I9T-I42-3F-PVC-I0-I2 HORIZONTAL TERRADYNE ELECTROLYTIC GROUND ROD WITH PVC TEST WELL, METAL COVER & I50 LBS OF TERRAFILL ENHANCED BACKFILL (4/0-I9T I2FT PIGTAIL & 24" RISER).

INSTALL IN A 30" DEEP 6" WIDE TRENCH WITH 2" OF TERRAFILL AROUND IT.

RE: DAN GARCIA - PASS POWER
PH: TI0-87I-5242

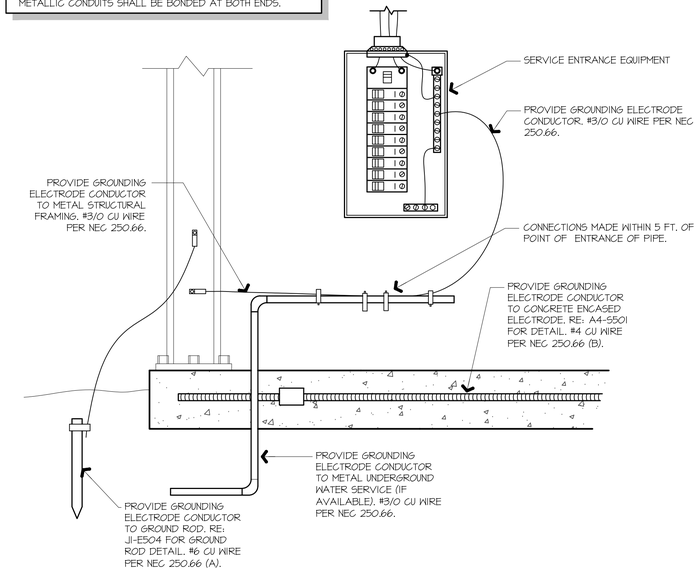
NOTE:
COORDINATE WITH QT REP TO REMOVE ANY TEMPORARY GROUNDING RODS USED DURING CONSTRUCTION OR TO BOND TO THIS GROUNDING SYSTEM.

J6 NOT USED

A1 GROUNDING ELECTRODE SYSTEM

NOT TO SCALE

PROVIDE INTERSYSTEM BONDING TO THE TELEPHONE GROUND BARS, MIN SIZE #6 G, PROVIDE BONDING TO EMERSON PANEL, MIN SIZE #6 G. ALL GROUNDING ELECTRODES ROUTED IN METALLIC CONDUITS SHALL BE BONDED AT BOTH ENDS.



GENERAL NOTES:
1. GROUNDING AND BONDING DETAIL BASED ON NEC CODE ARTICLE 250-50. ALL INSTALLATIONS SHALL COMPLY WITH SECTION 250 IN ITS ENTIRETY OF THE MOST CURRENT ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE AND ALL LOCAL AND STATE CODES.
2. THE GROUNDING SYSTEM SHALL HAVE NO GREATER THAN FIVE (5) OHMS OF RESISTANCE TO GROUND AT THE CONNECTION POINT TO SERVICE.
3. ELECTRICAL CONTRACTOR SHALL USE AN EXOTHERMIC WELD WHEN SPLICING CONDUCTORS. NO EXCEPTIONS.
4. CONNECTIONS SHALL BE MADE WITH AN EXOTHERMIC WELD WHEN IN CONCRETE OR BELOW GROUND. CONNECTIONS MADE ABOVE GROUND CAN BE MADE WITH A MECHANICAL CLAMP U.L. LISTED FOR THIS USE.
5. THE GROUNDING ELECTRODE SYSTEM SHALL INCLUDE ALL COMPONENTS NOTED ABOVE.
6. GROUNDING ELECTRODE CONDUCTORS SHALL BE PROTECTED FROM THEFT AND/OR DAMAGE WHERE EXPOSED.

A6 EXTERIOR ELECTRICAL PANEL WALL ELEVATION

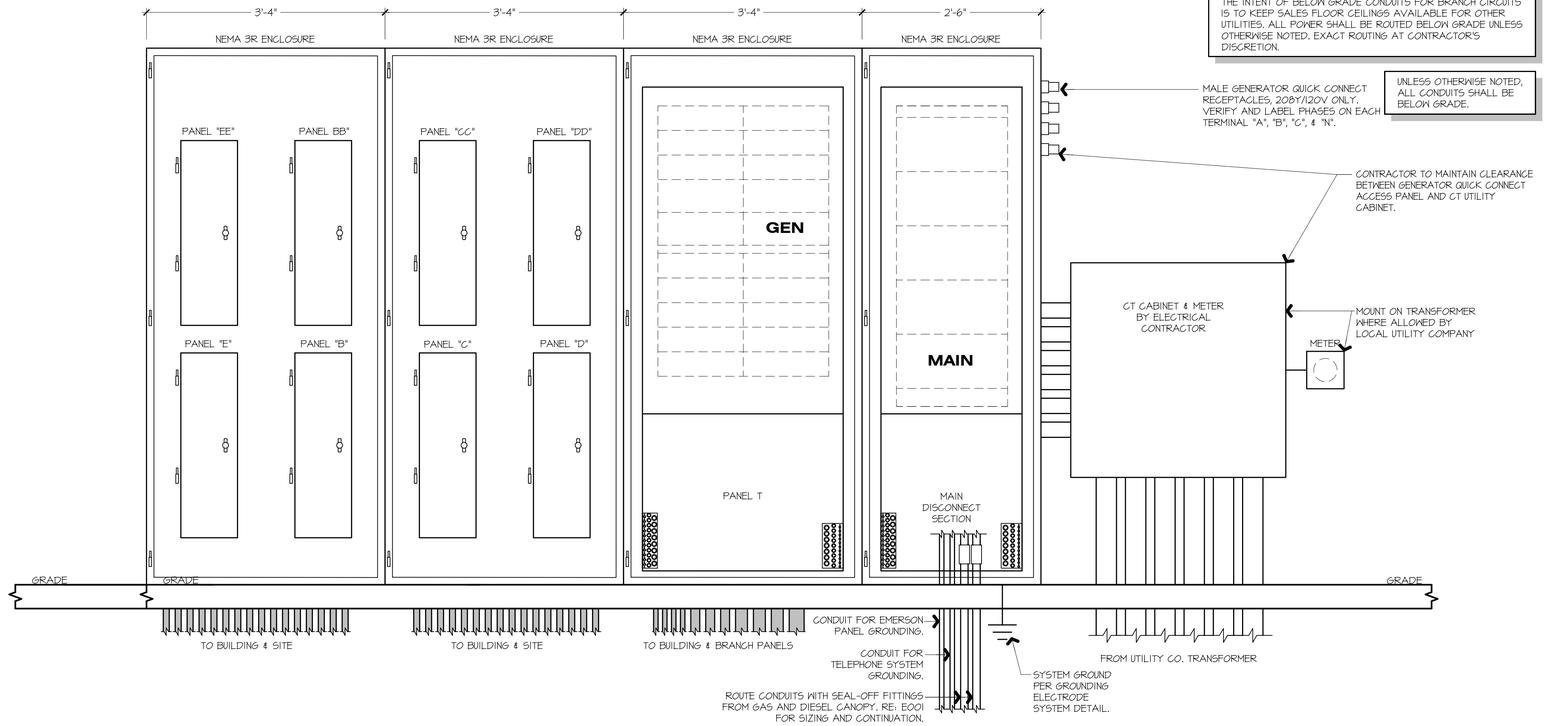
1" = 1'-0"

A1-E103

ALL CONDUCTORS ROUTED WITHIN BELOW GRADE CONDUITS SHALL BE DERATED AND SIZED PER NEC TABLE 3I0.I5(C)(I) REQUIREMENTS.

THE INTENT OF BELOW GRADE CONDUITS FOR BRANCH CIRCUITS IS TO KEEP SALES FLOOR CEILINGS AVAILABLE FOR OTHER UTILITIES. ALL POWER SHALL BE ROUTED BELOW GRADE UNLESS OTHERWISE NOTED. EXACT ROUTING AT CONTRACTOR'S DISCRETION.

UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE BELOW GRADE.



STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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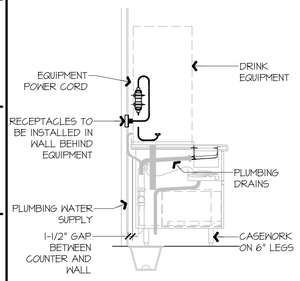
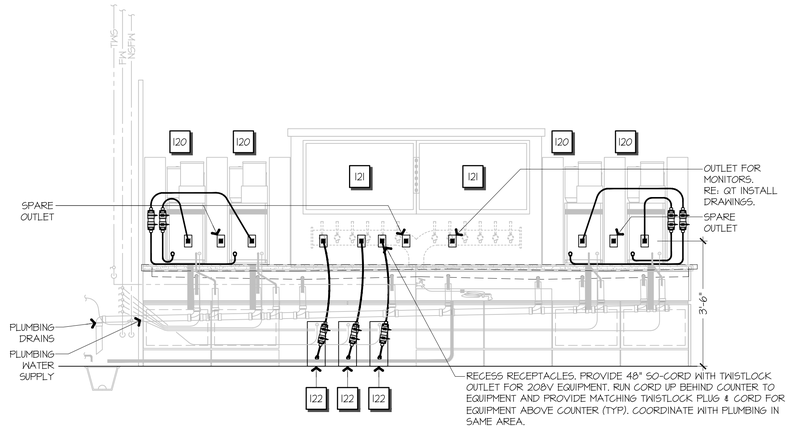
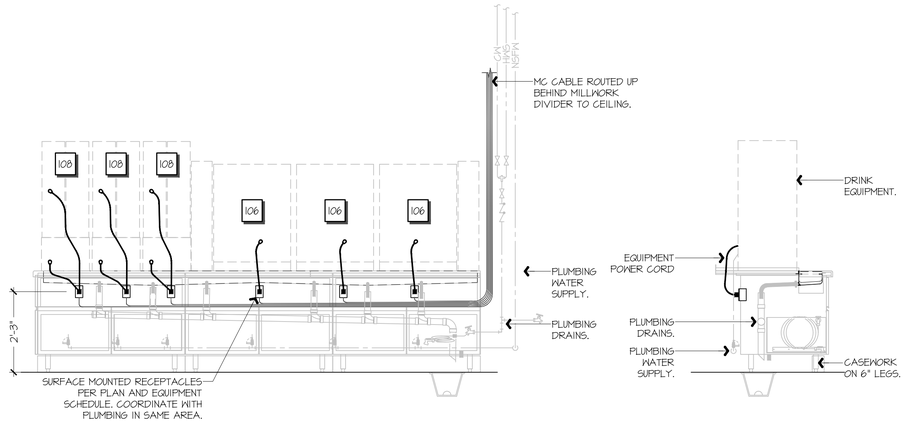
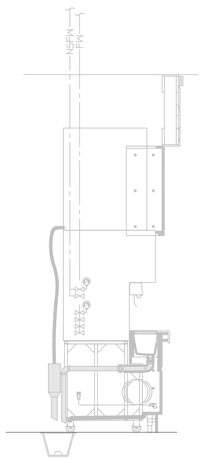


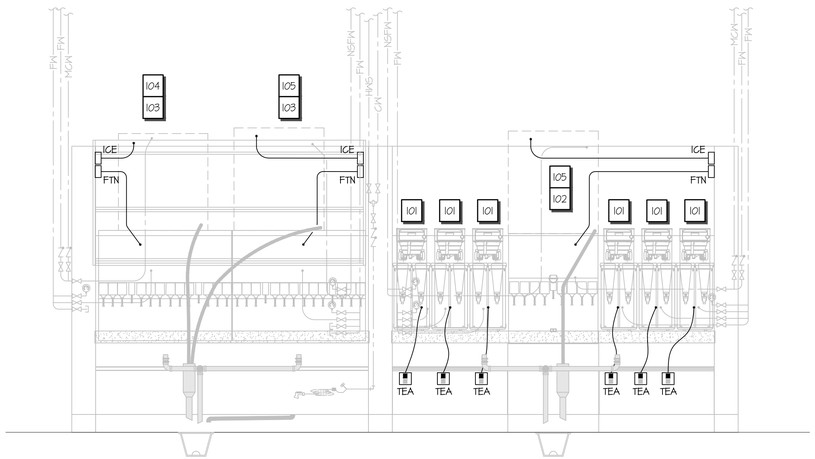


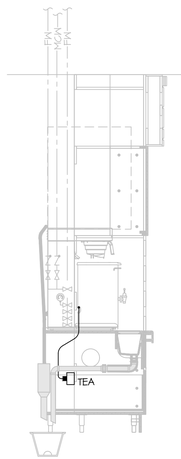
H1	COFFEE BAR REAR ELEVATION & SECTION
3/4" = 1'-0"	A1-E103



H9	FROZEN BAR REAR ELEVATION & SECTION
3/4" = 1'-0"	A1-E103







A1	FOUNTAIN WALL ELEVATION & SECTION
3/4" = 1'-0"	A1-E103

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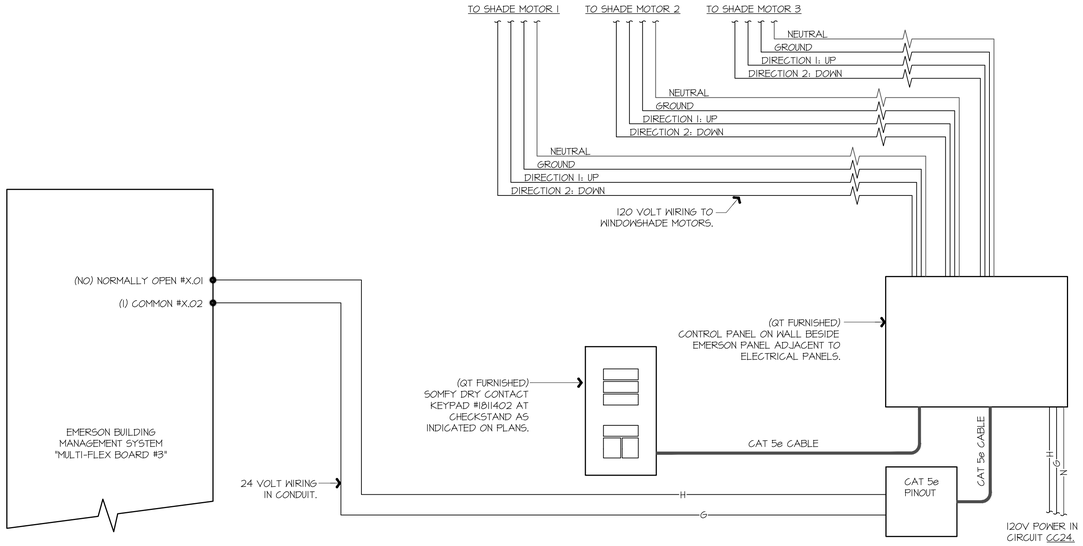


REFER TO WINDOWSHADE INSTALLATION INSTRUCTIONS, AND COORDINATE WITH QT REP FOR WIRING INTO EMERSON BUILDING MANAGEMENT SYSTEM AND COMMISSIONING THE SYSTEM.

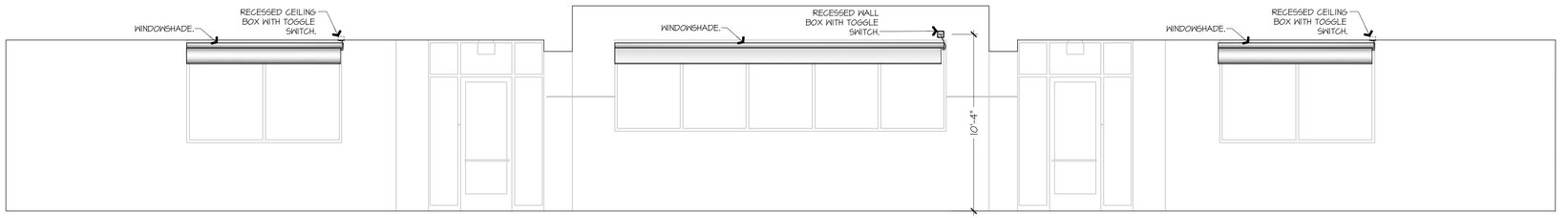
ALL EQUIPMENT TO BE U.L. LISTED WITH VISIBLE MOTOR NAMEPLATES.

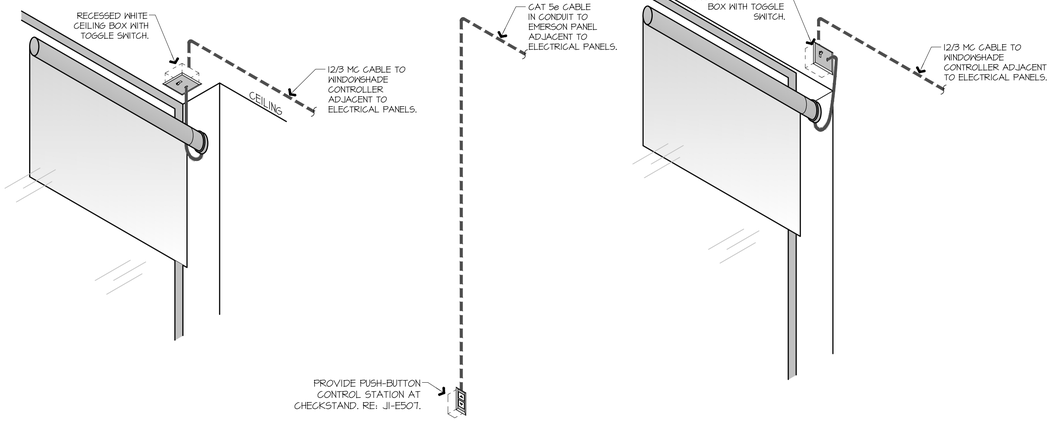
NO COMPONENTS ALLOWED WITHIN A RETURN-AIR-PLENUM. (BUILDING DOES NOT UTILIZE A RETURN-AIR PLENUM.)

SYSTEM UTILIZES 120V AC POWER WITH 24V DC CONTROL WIRING.

K1 WINDOWSHADE WIRING DIAGRAM

NOT TO SCALE | A1-E103





A1 WINDOWSHADE DETAILS

$\frac{1}{4}$" = 1'-0" | A1-E103

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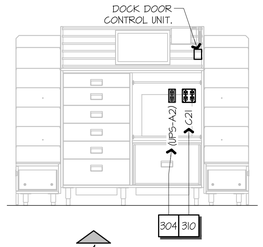

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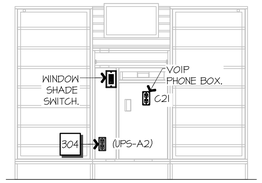

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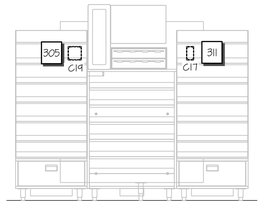
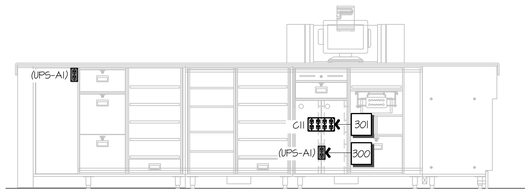


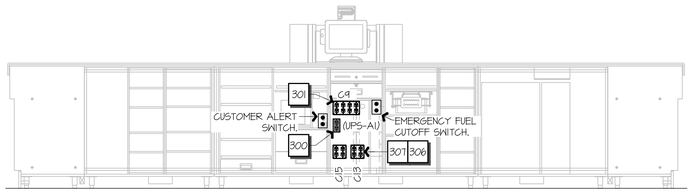
6

CHECKSTAND RIGHT ELEVATION



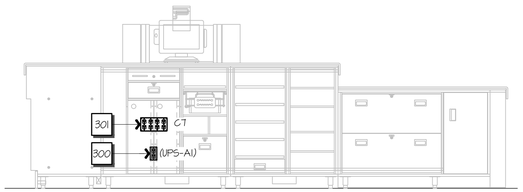
3

CHECKSTAND FRONT ELEVATION



2

CHECKSTAND LEFT ELEVATION

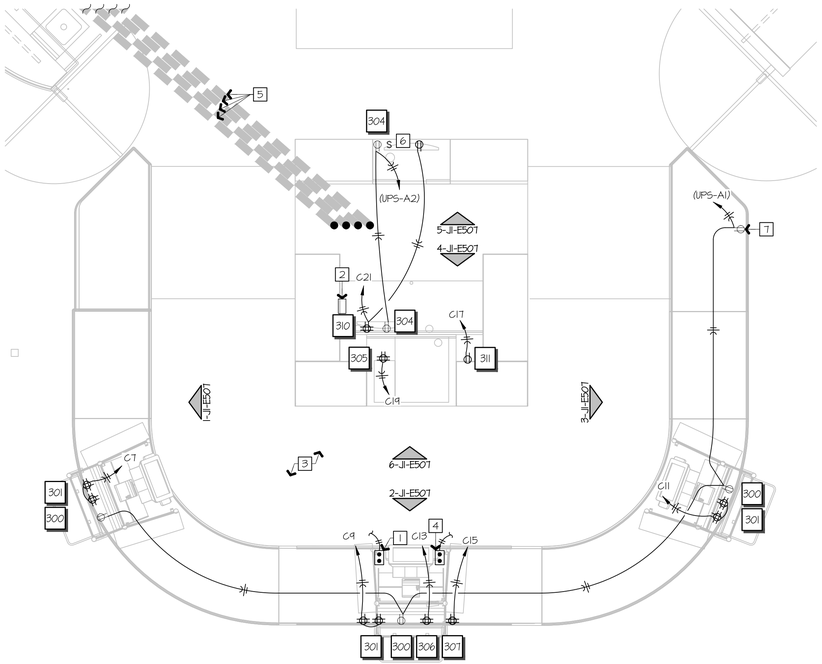


1

J1 CHECKSTAND ELEVATIONS

3/4" = 1'-0"

A1-E507



A1 ELECTRICAL ENLARGED CHECKSTAND PLAN

3/4" = 1'-0"

A1-E103

NOTE TO CONTRACTOR:

CONTRACTOR SHALL NOT BUNDLE M.C. CABLE. MAINTAIN SPACING AS REQUIRED OR DERATE PER NEC 330.80(C).

ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT. UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.

PROVIDE BLACK OUTLETS AND BLACK COVER PLATES WHERE MOUNTED ON DARK-COLORED WALLS, INCLUDING EXTERIOR BLOCK WALLS.

REFER TO SHEET E602 FOR ['] EQUIPMENT CALLOUTS.

ALL DEVICES SHOWN WITH CIRCUIT PANEL DESIGNATION SHALL BE HOME-RUN WITH 3#12 IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. DO NOT SHARE NEUTRALS UNLESS SPECIFICALLY NOTED.

A13 PLAN NOTES

1. EMERGENCY FUEL SWITCH LOCATED UNDER COUNTER. RE: ELECTRICAL PANEL MANUFACTURER WIRING DIAGRAMS.
2. JA-2MEGD CONTROL UNIT FOR DOCK DOOR ELECTRONIC LOCK LOCATED UNDER COUNTER. RE: LOW VOLTAGE DRAWINGS FOR EXACT LOCATION.
3. ALL CIRCUITING ROUTED WITHIN RAISED FLOOR OF CHECKSTAND. (TYP).
4. RE: LOW VOLTAGE DRAWINGS FOR CUSTOMER ALERT CIRCUITING.
5. BELOW GRADE ELECTRICAL CHASES FOR LOW VOLTAGE WIRING. RE: E102.
6. QT FURNISHED UP/DOWN WALL SWITCH FOR WINDOWSHADES. RUN LOW VOLTAGE WIRING IN CONDUIT TO WINDOWSHADE CONTROLLER IN ELECTRICAL ROOM. RE: A1-E503 FOR LOCATION AND E505 FOR WIRE DIAGRAM & DETAILS.
7. PROVIDE DUPLEX TO SERVE PPD CHARGE DEVICE. RE: QT INSTALL DRAWINGS FOR EXACT LOCATION.

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Missouri Certificate of Authority #001022

QuikTrip No. 0183R

1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

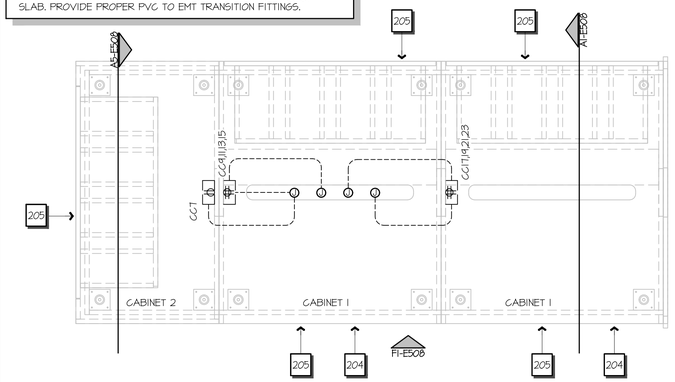
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL ENLARGED PLANS

SHEET NUMBER:
E507

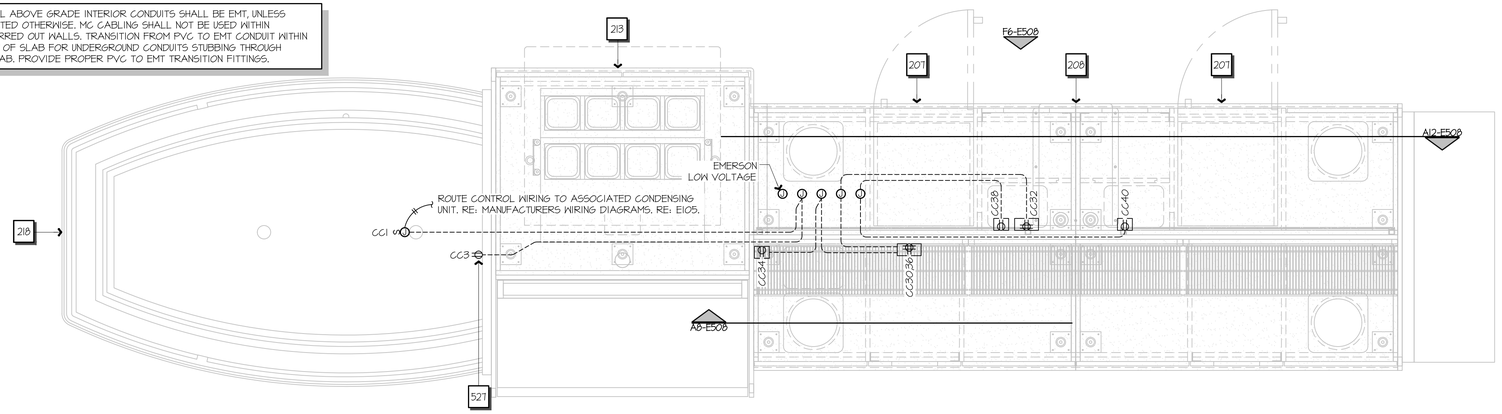
ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT, UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.



L1 ROLLER GRILL BAR - ENLARGED PLAN

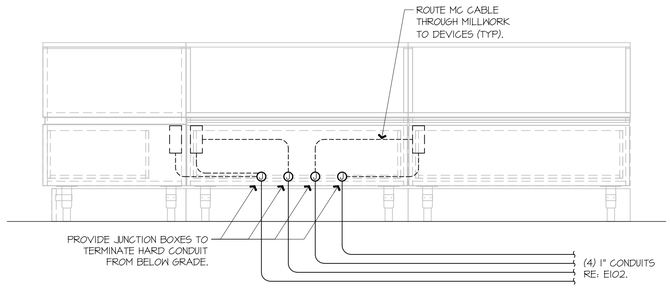
1" = 1'-0" | A1-E103

ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT, UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.



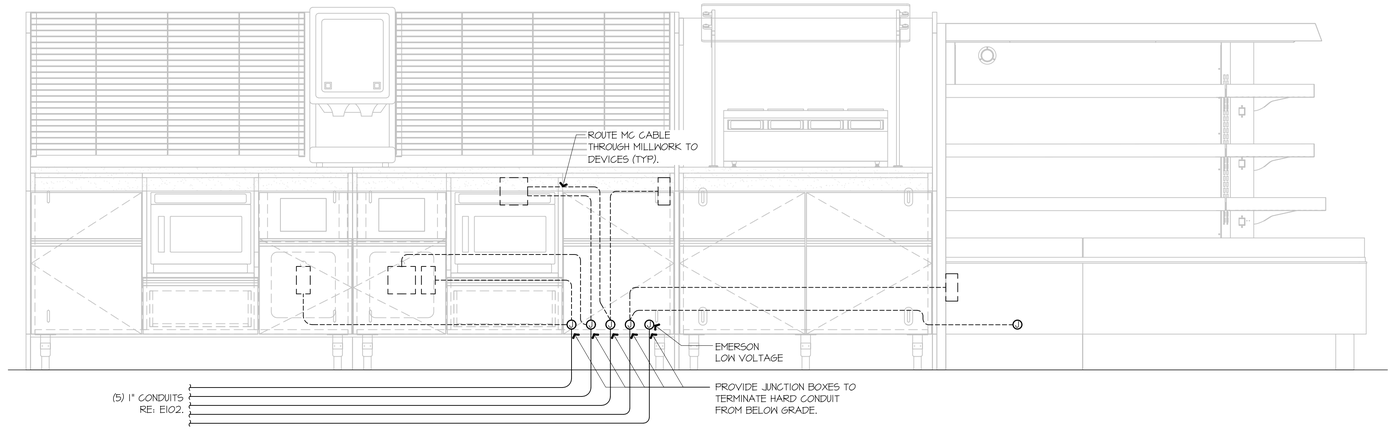
L6 CONDIMENT LID BAR - ENLARGED PLAN

1" = 1'-0" | A1-E103



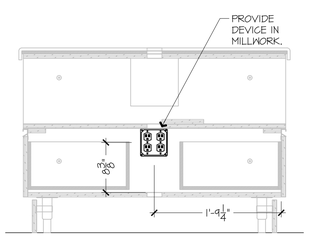
F1 ROLLER GRILL BAR - FRONT ELEVATION

1" = 1'-0" | L1-E508



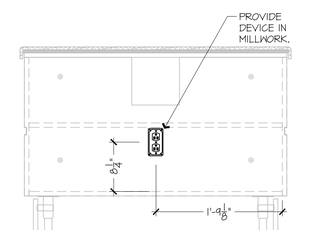
F6 CONDIMENT LID BAR - FRONT ELEVATION

1" = 1'-0" | L6-E508



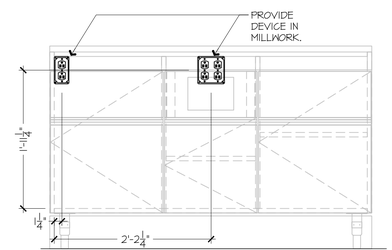
A1 ROLLER GRILL BAR - TYPICAL CABINET 1 SECTION

1" = 1'-0" | L1-E508



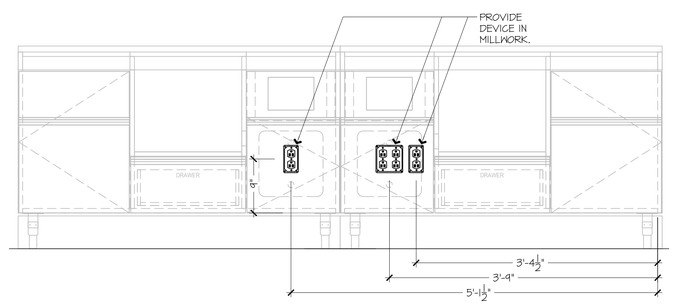
A5 ROLLER GRILL BAR - CABINET 2 SECTION

1" = 1'-0" | L1-E508



A8 CONDIMENT LID BAR - CABINET 2 SECTION

1" = 1'-0" | L6-E508



A12 CONDIMENT LID BAR - CABINET 4/5 SECTION

1" = 1'-0" | L6-E508

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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ELECTRICAL ENLARGED PLANS

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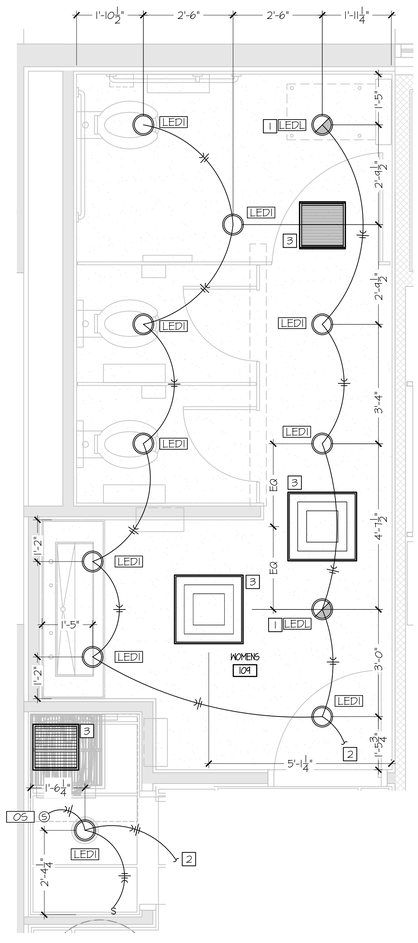

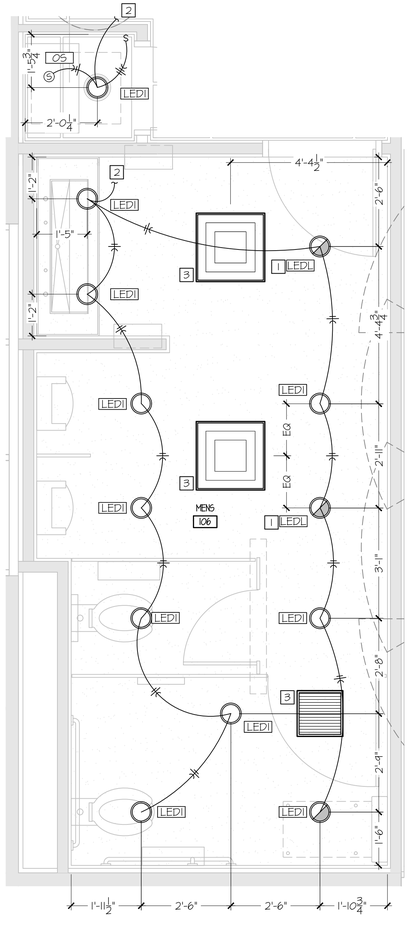

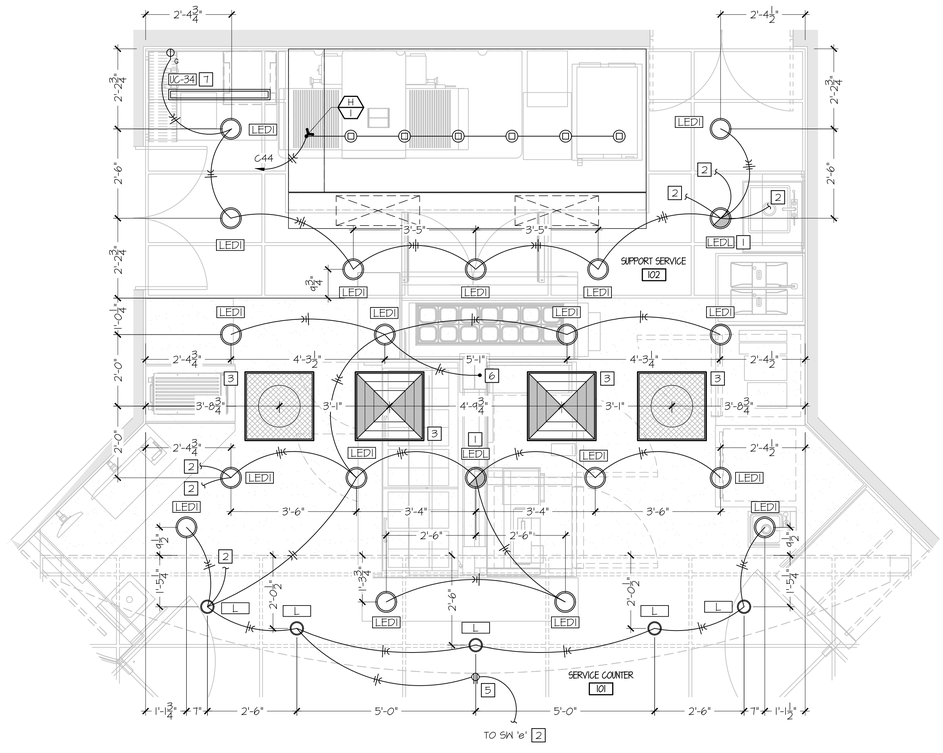

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1 FIXTURE EQUIPPED WITH EMERGENCY BALLAST AND BATTERY PACK FOR EGRESS LIGHTING. RUN EXTRA UNSWITCHED HOT WIRE FOR EMERGENCY FIXTURE BYPASSING LIGHTSWITCHING AS INDICATED.

2 RE: E104 FOR CIRCUITING AND SWITCHING.

3 RE: M101 FOR DUCT ROUTING.

ALL ABOVE GRADE INTERIOR CONDUITS SHALL BE EMT, UNLESS NOTED OTHERWISE. MC CABLING SHALL NOT BE USED WITHIN FURRED OUT WALLS. TRANSITION FROM PVC TO EMT CONDUIT WITHIN 12" OF SLAB FOR UNDERGROUND CONDUITS STUBBING THROUGH SLAB. PROVIDE PROPER PVC TO EMT TRANSITION FITTINGS.

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2 RE: E104 FOR CIRCUITING AND SWITCHING.

3 RE: M101 FOR DUCT ROUTING.

4 NOT USED.

5 QT "KITCHENS" SIGN FURNISHED BY QUIKTRIP. PROVIDE RECEPTACLE LOCATED IN ACCESSIBLE LOCATION RECESSED WITHIN SOFFIT AS INDICATED FOR QUIKTRIP SIGNAGE. PROVIDE SWITCH AS SHOWN.

6 EXTEND LIGHTING CIRCUIT TO HEAT LAMP RECEPTACLE WITHIN FSC ISLAND. RE: E501.

7 INSTALL FIXTURE 3" FROM FRONT EDGE AND CENTERED UNDER SHELF. EXTEND LIGHTING CIRCUIT TO UNDERCABINET LIGHT RECEPTACLE. RE: E501 & E601.

A1	LIGHTING ENLARGED RESTROOMS PLAN	A5	PLAN NOTES
¼" = 1'-0"	A1-E104		
A9	LIGHTING ENLARGED FSC PLAN	A13	PLAN NOTES
¼" = 1'-0"	A1-E104		

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

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SHEET TITLE:
ELECTRICAL LIGHTING ENLARGED REFLECTED CEILING PLANS

SHEET NUMBER:
E509

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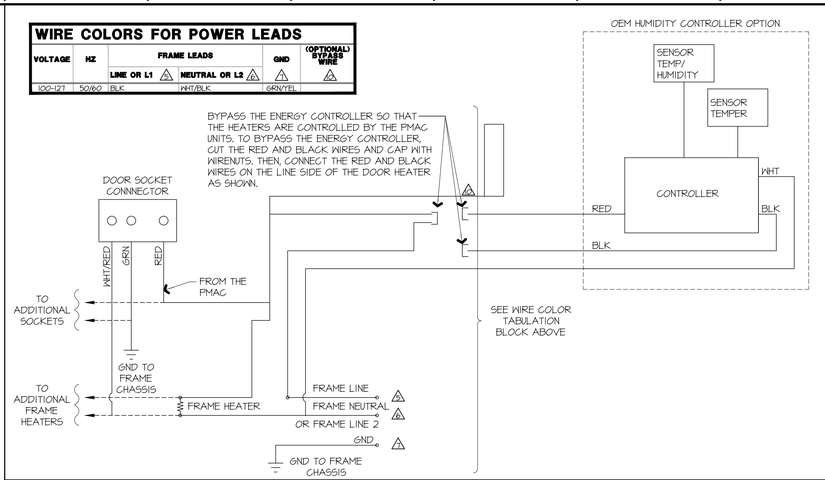
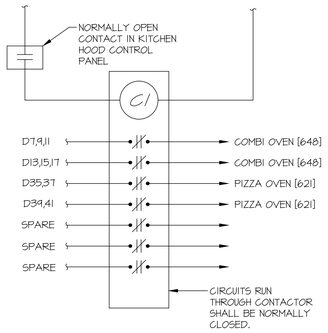
Development Services Department
Lee's Summit, Missouri
03/10/2025

WIRE COLORS FOR POWER LEADS

VOLTAGE	HZ	FRAME LEADS		GND	(OPTIONAL) BYPASS WIRE
		LINE OR L1 ⚠5	NEUTRAL OR L2 ⚠5	⚠1	⚠4
100-127	50/60	BLK	WHT/BLK	GRN/YEL	



L11	COOLER DOOR HEATER WIRING DIAGRAM
NOT TO SCALE	A1-E103



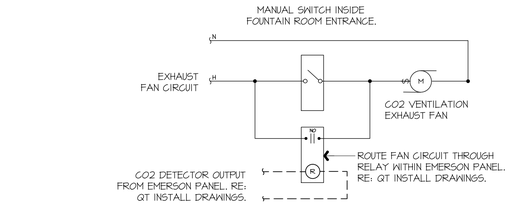
FOR EQUIPMENT UNDER HOOD, WIRE THROUGH FACTORY INSTALLED CONTACTORS IN THE HOOD CONTROL PANEL.

ANY KITCHEN EQUIPMENT LOCATED BELOW THE HOOD AND IS PROTECTED BY A CIRCUIT BREAKER LARGER THAN 20A WILL REQUIRE A DEDICATED CONTACTOR WITH CONTACT RATINGS EQUAL TO OR LARGER THAN THE CIRCUIT BREAKER PROTECTING THE EQUIPMENT. THE DEDICATED CONTACTOR SHALL BE WIRED IN PARALLEL TO THE 20A MULTI-POLE CONTACTOR. ANY DEDICATED CONTACTORS THAT CANNOT BE INSTALLED IN ELECTRICAL CABINET ON HOOD SHALL BE INSTALLED ABOVE CEILING ADJACENT TO HOOD IN AN ACCESSIBLE LOCATION.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, RELAYS, AND DEVICES AS SHOWN AND AS REQUIRED TO PROVIDE CONTROL INTERFACE BETWEEN HOOD FIRE SUPPRESSION SYSTEM TO CAUSE THE FOLLOWING TO OCCUR WHEN AGENT IS RELEASED:

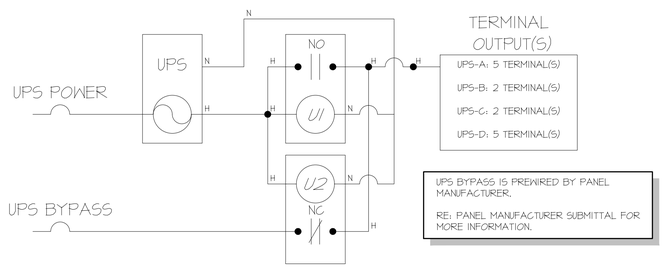
- DE-ENERGIZE ALL ELECTRICAL EQUIPMENT UNDER THE HOOD.
- DE-ENERGIZE RTU SERVING THE KITCHEN.
- ENERGIZE AND RAMP EXHAUST FAN AIRFLOW TO HOOD MAX CFM SCHEDULED ON M601.

F8	HOOD EQUIPMENT SHUT DOWN CONTACTOR
NOT TO SCALE	A1-E501



F13	RELAY WIRING DIAGRAM
NOT TO SCALE	A1-E103

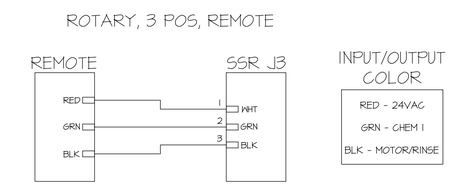
A1	NOT USED



UPS BYPASS IS PREWIRED BY PANEL MANUFACTURER.

RE: PANEL MANUFACTURER SUBMITTAL FOR MORE INFORMATION.

A8	UPS WIRING DIAGRAM
NOT TO SCALE	A1-E503



RE: MANUFACTURER'S WIRING DIAGRAMS FOR MORE INFORMATION.

A13	POWER WASHER L.V. WIRING DIAGRAM
NOT TO SCALE	L1-E501

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
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SHEET TITLE:
ELECTRICAL WIRING DETAILS

SHEET NUMBER:
E510

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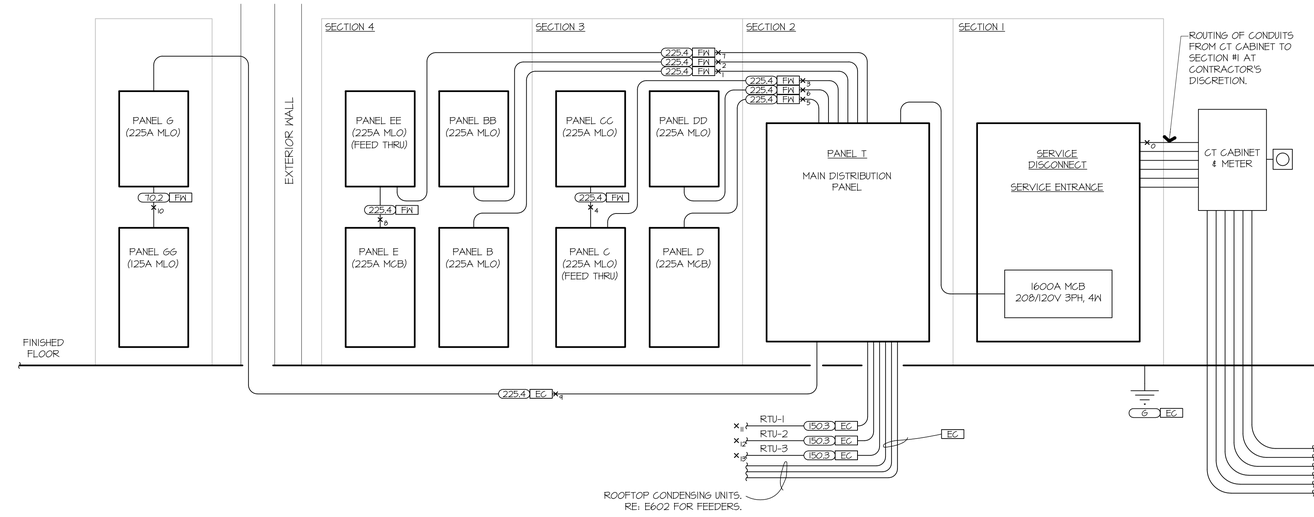
Development Services Department
Lee's Summit, Missouri
03/10/2025

L1 NOT USED



FEEDER FAULT CURRENT CALCULATIONS

FAULT TAG	POINT 1	POINT 2	FEEDER RATING (A)	FEEDER VOLTAGE (V)	# OF PHASES	AVAILABLE FAULT AT POINT 1 (A)	LENGTH (FT)	# SETS	WIRE SIZE	CONDUIT TYPE	WIRE TYPE	CALCULATED AVAILABLE FAULT CURRENT AT POINT 2 (A)	PANEL/EQUIPMENT kAIC RATING	NOTES
X0	UTILITY	PANEL T	1600	208	3	38591	75	6	300	PVC	COPPER	32312	65	
X1	PANEL T	PANEL B	225	208	3	32312	10	1	4/0	PVC	COPPER	21871	65	1
X2	PANEL T	PANEL BB	225	208	3	32312	10	1	4/0	PVC	COPPER	21871	65	1
X3	PANEL T	PANEL C	225	208	3	32312	10	1	4/0	PVC	COPPER	21871	65	1
X4	PANEL C	PANEL CC	225	208	3	21871	1	1	4/0	PVC	COPPER	21484	65	1
X5	PANEL T	PANEL D	225	208	3	32312	10	1	4/0	PVC	COPPER	21871	65	2
X6	PANEL T	PANEL DD	225	208	3	32312	10	1	4/0	PVC	COPPER	21871	65	1
X7	PANEL T	PANEL EE	225	208	3	32312	10	1	4/0	PVC	COPPER	21871	65	1
X8	PANEL EE	PANEL E	225	208	3	21871	1	1	4/0	PVC	COPPER	21484	65	2
X9	PANEL T	PANEL G	225	208	3	32312	15	1	4/0	PVC	COPPER	26059	65	1
X10	PANEL G	PANEL GG	70	120	1	26059	1	1	#4	PVC	COPPER	23402	65	3
X11	PANEL T	RTU-1	150	208	3	32312	100	1	1/0	PVC	COPPER	8322	35	
X12	PANEL T	RTU-2	150	208	3	32312	80	1	1/0	PVC	COPPER	9714	35	
X13	PANEL T	RTU-3	150	208	3	32312	80	1	1/0	PVC	COPPER	9714	35	

NOTES:
1) SUB PANELS ARE SERIES RATED WITH PANEL T.
2) BRANCH CIRCUIT BREAKERS ARE SERIES RATED WITH PANELBOARD MCB.
3) ALL CIRCUIT BREAKERS WITHIN SUB PANEL ARE RATED AT LISTED kAIC RATING.

GENERAL NOTES:
A ASSUMED 3-PHASE 750 kVA, 5.48%Z, PAD MOUNTED TRANSFORMER. WORST-CASE AVAILABLE FAULT CURRENT FROM INFINITE BUS METHOD.
B SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH AVAILABLE FAULT CURRENT PER NEC 110.24.
C WIRE SIZE RESISTANCE & REACTANCE PER NEC CHAPTER 9 - TABLE 9.

FEEDER SCHEDULE

TAG	WIRE SIZES
SERVICE	CU - (6) SET OF (4) #300 IN 3"C FROM UTILITY TRANSFORMER
	AL - (6) SET OF (4) #400 IN 3"C FROM UTILITY TRANSFORMER
10.2	70A - (2) #4, (1) #86, 1-1/2"C
150.3	150A - (3) #1/0, (1) #66, 1-1/2"C
225.4	225A - (4) #4/0, (1) #46, 2-1/2"C
6	RE: A1-E504 FOR SIZING.
FM	FACTORY WIRED CONDUITS & CONDUCTORS
EC	ELECTRICAL CONTRACTOR PROVIDED & INSTALLED

A1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
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SHEET TITLE:
ELECTRICAL
RISER
DETAIL

SHEET NUMBER:
E511

LIGHT FIXTURE SCHEDULE

TYPE	IMAGE	SYMBOL	QUANTITY	MANUFACTURER	CATALOG NUMBER	TYPE	MOUNTING	VOLTS	WATTS	REMARKS
A			3	LITHONIA	CPANL 2X4 ALO6 SWMT M2	LED	LAY-IN	120	45	SET TO 50LM, 35K
A-EL			3	LITHONIA	CPANL 2X4 ALO6 SWMT M2	LED	LAY-IN	120	45	WITH EMERGENCY BACKUP WITH SELF DIAGNOSTIC, SET TO 50LM, 35K IOTA BATTERY PACK - ILBLP GPIO HE SD A
D-I			2	DUAL-LITE	PG-B-HTR	LED	SURFACE CL AT 8' AFF	120	12	EMERGENCY EGRESS LIGHT WITH BATTERY BACKUP.
DL			335 FT	LSI INDUSTRIES	ARCHER	LED	OUTDOOR ROOF EDGE	120	10 W/FT	
EXIT			3	MULE LIGHTING	MD-B-I-R-BA	LED	SURFACE AT CLG	120	3	EMERGENCY EGRESS LIGHT WITH BATTERY BACKUP.
J			11	LF ILLUMINATION	MN3IDN-T-40C-8035-VW-RG-DMU-WA	LED	RECESSED	120	40	LF #LBARS4PK MOUNTING SYSTEM.
L			5	JUNO LIGHTING	IGILED6S-35K-I / SP3051I-RED-SC	LED	RECESSED	120	12	
LED1			41	JUNO LIGHTING	TC422LED-35K-I/27HZ-WH-LB2T	LED	RECESSED	120	18	
LED1			7	JUNO LIGHTING	TC422LED-35K-I-BR/27HZ-WH-LB2T	LED	RECESSED	120	18	EMERGENCY EGRESS LIGHT WITH BATTERY BACKUP. TRASH ROOM AND JANITOR ROOM BY OCCUPANCY SENSOR
LDEM			2	SIGNTEX LIGHTING	MLD-BB-10-W-DP	LED	RECESSED	120	10	EMERGENCY ONLY EGRESS LIGHT WITH BATTERY BACKUP.
LEDO			16	JUNO LIGHTING	IC20LED6S-35K-I/2130W-WH	LED	OUTDOOR RECESSED	120	14	
QFI			12	COLUMBIA	LXEM-4-40LW-RFA-EDU	LED	SURFACE	120	33	COOLERS CONTROLLED BY SENSOR SWITCH 4-CMR-9-LT AS INDICATED ON PLAN.
QFIEL			1	COLUMBIA	LXEM-4-40LW-RFA-EDU-ELLI4	LED	SURFACE	120	33	EMERGENCY LIGHT WITH BATTERY BACKUP.
QK			1	HUBBELL	LSQ-25-5K7-120-GYS-SWPM-8F	LED	SURFACE	120	26	
QL			41	COLUMBIA	CMM4-430MAS-2WW-ED-U	LED	RECESSED	120	29	
QLEL			17	COLUMBIA	CMM4-430MAS-2WW-ED-U-ELLI4	LED	RECESSED	120	29	EMERGENCY EGRESS LIGHT WITH BATTERY BACKUP.
SOFF			5	LSI INDUSTRIES	XSPS-S-LED-VHO-NW-208-GWT-DFL	LED	OUTDOOR RECESSED	208	49	
T			12	JUNO LIGHTING	LA4-23-35-I LA4OOF-C-S-WH HB-TL	LED	RECESSED	120	33	
UC-34			1	ELITE LIGHTING	EU-LED-34-I300L-35K-WH-PCSBI20	LED	SURFACE	120	14	
BLX			2	ECOLAB	STEALTH MAXIMA	SELF-CONTAINED CFL	SURFACE WALL	120	54	BUG LIGHT - PROVIDE WALL RECEPTACLE AT HEIGHT INDICATED ON PLAN. CONNECTED TO LIGHTING CIRCUIT.
OS			7	AGUITY CONTROLS	CMR 9 LT	OCCUPANCY SENSOR	SURFACE AT CLG	120		

GENERAL NOTES (APPLY TO ALL THE ABOVE):

A) ALL LIGHT FIXTURES ARE OWNER-FURNISHED, CONTRACTOR-INSTALLED.

B) LIGHT FIXTURES IN COOLER SHALL REMAIN OFF DURING CONSTRUCTION UNTIL COOLERS ARE PERMANENTLY COLD.

C) ALL MOUNTING HEIGHTS AND FIXTURE PLACEMENT TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

LIGHTING SEQUENCE OF OPERATIONS

LIGHTING CONTROLS IECC EXCEPTIONS:

A) QUIKTRIP IS A 24/7 365 DAYS/YEAR FACILITY AND NOT SUBJECT TO HOLIDAY SCHEDULING.

B) SALES FLOOR, RESTROOMS, CHECKSTAND, AND SERVICE COUNTER AREAS ARE DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT ARE REQUIRED TO BE CONTINUOUSLY LIGHTED AND MEET EXCEPTION 1 OF IECC SECTION C405.2.

C) THIS FACILITY MEETS THE DAYLIGHT-RESPONSIVE CONTROLS EXCEPTION 3 OF IECC SECTION C405.2.3 FOR SIDELIGHT DAYLIGHT ZONES ON THE FIRST FLOOR WITHIN GROUP M OCCUPANCIES.

GENERAL REQUIREMENTS:

A) CONFIRM ALL TIMECLOCK SCHEDULES AND SCENES WITH THE OWNER PRIOR TO FINAL PROGRAMMING.

B) SEE LIGHTING PLANS FOR THE EXACT LOCATION OF FIXTURES, SWITCHES, SENSORS, AND ZONING.

C) ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH UNSWITCHED POWER FOR EMERGENCY BATTERY/DRIVER OPERATION.

SALES AREA - 100 (CONTROL ZONE: A, B, G)
MANUAL CONTROL: NONE.
OCCUPANCY: ALL CONTROLLED LIGHTS SHALL AUTOMATICALLY TURN ON VIA BMS (EMERSON).
VACANCY: NONE.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHT WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

SINGLES COOLER - 103
MANUAL CONTROL: LIGHTS CONTROLLED VIA LOCAL SWITCH.
OCCUPANCY: ALL CONTROLLED LIGHTS SHALL AUTOMATICALLY TURN ON.
VACANCY: AFTER 20 MINUTES, ALL CONTROLLED LIGHTS SHALL TURN OFF.
EMERGENCY: NONE.

UTILITY CLOSET - 108
MANUAL CONTROL: LIGHTS CONTROLLED VIA LOCAL SWITCH.
OCCUPANCY: ALL CONTROLLED LIGHTS SHALL AUTOMATICALLY TURN ON.
VACANCY: AFTER 20 MINUTES, ALL CONTROLLED LIGHTS SHALL TURN OFF.
EMERGENCY: NONE.

SALES AREA - 100 (CONTROL ZONE: C, D, F)
MANUAL CONTROL: LIGHTS CONTROLLED VIA REMOTE SWITCH.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: NONE.

WORKROOM - 104
MANUAL CONTROL: LIGHTS CONTROLLED VIA LOCAL SWITCH.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHTS WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

JANITOR'S CLOSET - 109
MANUAL CONTROL: LIGHTS CONTROLLED VIA LOCAL SWITCH.
OCCUPANCY: ALL CONTROLLED LIGHTS SHALL AUTOMATICALLY TURN ON.
VACANCY: AFTER 20 MINUTES, ALL CONTROLLED LIGHTS SHALL TURN OFF.
EMERGENCY: NONE.

SERVICE COUNTER - 101 (CONTROL ZONE: E)
MANUAL CONTROL: LIGHTS CONTROLLED VIA REMOTE SWITCH.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: NONE.

TAKE HOME COOLER - 105
MANUAL CONTROL: LIGHTS CONTROLLED VIA LOCAL SWITCH.
OCCUPANCY: ALL CONTROLLED LIGHTS SHALL AUTOMATICALLY TURN ON.
VACANCY: AFTER 20 MINUTES, ALL CONTROLLED LIGHTS SHALL TURN OFF.
EMERGENCY: NONE.

PLUMBING ROOM - 110
MANUAL CONTROL: LIGHTS CONTROLLED VIA LOCAL SWITCH.
OCCUPANCY: ALL CONTROLLED LIGHTS SHALL AUTOMATICALLY TURN ON.
VACANCY: AFTER 20 MINUTES, ALL CONTROLLED LIGHTS SHALL TURN OFF.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHTS WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

SERVICE COUNTER - 101 (CONTROL ZONE: H, I)
MANUAL CONTROL: LIGHTS CONTROLLED VIA REMOTE SWITCH.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHTS WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

WOMENS - 106
MANUAL CONTROL: NONE.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHTS WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

FREEZER - 111
MANUAL CONTROL: LIGHTS CONTROLLED VIA LOCAL SWITCH.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: NONE.

SUPPORT SERVICE - 102 (CONTROL ZONE: J)
MANUAL CONTROL: LIGHTS CONTROLLED VIA REMOTE SWITCH.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHTS WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

MENS - 107
MANUAL CONTROL: NONE.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHTS WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

EXTERIOR
AUTO ON: AREA IS CONTROLLED BY 24HR, 7-DAY CENTRAL TIMECLOCK AND PHOTOCELL.
MANUAL CONTROL: NONE.
OCCUPANCY: NONE.
VACANCY: NONE.
EMERGENCY: EGRESS LIGHTING IS POWERED BY INTEGRAL BATTERY PACKS. UPON LOSS OF POWER, EMERGENCY LIGHTS WILL TURN ON FOR A MINIMUM OF 90 MINUTES.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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Missouri Certificate of Authority #001022

QuikTrip No. 0183R
1001 SW BLUE PARKWAY
LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E601

A1 LIGHTING SCHEDULES

ELECTRICAL EQUIPMENT LIST AND CONNECTION SCHEDULE

TAG #	DESCRIPTION	MANUFACTURER & MODEL	VOLTAGE / PHASE / WIRE	LOAD AMPS	TYPE OF CONNECTION	WIRE AND CONDUIT	MOUNTING HEIGHT (AFF)	FURNISHED BY	ITEM REMARKS
101	BREWED TEA DISPENSER	BUNN #44400.0002	120/1/3W	14.2	NEMA 5-20R	3#12, 1/2"C	18"	QT	NOTE 8
102	FOUNTAIN MACHINE - 8 HEAD	CORNELIUS ED #250-8	120/1/3W	3.5	NEMA 5-20R	3#12, 1/2"C	18"	QT	PROVIDE CORD AND PLUG FOR DISCONNECT IF NOT ALREADY EQUIPPED.
103	FOUNTAIN MACHINE - 12 HEAD	CORNELIUS ED #350-12	120/1/3W	5.2	NEMA 5-20R	3#12, 1/2"C	18"	QT	PROVIDE CORD AND PLUG FOR DISCONNECT IF NOT ALREADY EQUIPPED.
104	CUBED ICE MAKER	HOSHIZAKI KM-1100MR,IZ	208/1/3W	12.5	NEMA L6-20R	3#12, 1/2"C	42"	QT	NOTE 8 / REMOTE CONDENSER (EQUIP #406)
105	CRUSHED ICE MAKER	HOSHIZAKI F-2001MR,IZ-C	120/208/1/4W	18.9	NEMA L14-30R	4#10, 1/2"C	42"	QT	NOTE 2 / REMOTE CONDENSER (EQUIP #411)
106	FREEZONI MACHINE	FBD #T14	208/1/3W	23.0	NEMA L6-30R	3#10, 1/2"C	*	QT	*NOTE 7, NOTE 9
108	SMOOTHIE MACHINE	BUNN #ULTRA-2 PAF	120/1/3W	15.0	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 7
116	LOTTO TICKET READER		120/1/3W	1.5	NEMA 5-20R	3#12, 1/2"C	12"	QT	
117	ATM		120/1/3W	2.0	NEMA 5-20R	3#12, 1/2"C	12"	QT	
120	BEAN TO CUP COFFEE	CURTIS GENE515	208/1/3W	13.9	NEMA L6-20R	3#12, 1/2"C	*	QT	*NOTE 7
121	WOW MONITOR		120/1/3W	2.0	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 7
122	COFFEE HEAT EXCHANGER	CURTIS WB56T63000	120/208/1/4W	22.1	NEMA L14-30R	4#10, 1/2"C	42"	QT	NOTE 7, NOTE 13
124	COFFEE BAR ICE MACHINE	CORNELIUS IMD 300-15A	120/1/3W	15.0	NEMA 5-20R	3#12, 1/2"C	26"	QT	
204	BUN WARMER	STAR #55T-45HC	120/1/3W	4.3	NEMA 5-20R	3#12, 1/2"C	26"	QT	
205	ROLLER GRILLS	NEMCO DIGITAL ROLLERGRILL	120/1/3W	11.9	NEMA 5-20R	3#12, 1/2"C	26"	QT	
207	MICROWAVE	AMANA HDC12A	120/1/3W	16.8	NEMA 5-20R	3#12, 1/2"C	26"	QT	
208	CHILI & CHEESE MACHINE	STAR #HPDE2-4	120/1/3W	8.0	NEMA 5-20R	3#12, 1/2"C	26"	QT	
213	GOLD BAR	APW WYOTT #ETR-8	120/1/3W	4.0	NEMA 5-20R	3#12, 1/2"C	26"	QT	
214	FLOOR ACCESS PANEL	JOSAM #58646-10	-	-	-	-	-	GC	10"X10" ACCESS PANEL WITH SCORIATED COVER.
215	RECESSED FLOOR BOX	HUBBELL #RF40BBR	120/1/3W	-	NEMA 5-20R	3#12, 1/2"C	-	GC	
217	5-TIER HOT DISPLAY	RPI NUTTALL FLEXESERVE #FXZNAI0555	208/1/3W	28.7	NEMA 6-30P	3#10, 1/2"C	*	QT	*NOTE 5
218	END CAP FLOOR COOLER	OASIS FSE663R	120/1/3W	7.8	NEMA 5-20R	3#12, 1/2"C	18"	QT	
220	COLD WELL	THERMELL REFRIGERATION 14ROB	120/1/3W	8.9	NEMA 5-15R	3#12, 1/2"C	-	QT	
300	POINT OF SALE	NCR REALPOS XR7 PLUS (7103)	120/1/3W	2.2	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 6
301	INTERCOM MICROPHONE	TMC-41	120/1/3W	2.0	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 6
304	COMPUTER		120/1/3W	1.5	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 6
305	LOTTO MACHINE		120/1/3W	1.5	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 6
306	CASH CONTROLLER SAFE		120/1/3W	1.5	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 6
307	BILL READER SAFE		120/1/3W	1.5	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 6
310	PRINTER/COPIER	LASERJET PRO MFP	120/1/3W	5.0	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 6
311	COUNTERTOP REFRIGERATOR		120/1/3W	1.5	NEMA 5-20R	3#12, 1/2"C	30"	QT	
313	NOT USED								
314	VIDEO ANALYTICS UPS	TRIPPLITE SUINT3000RTXLCDUN	208/1/3W	4.4	NEMA L6-20R	3#12, 1/2"C	SEE PLANS	QT	RE: E503
	VIDEO ANALYTICS SERVER	SUPERMICRO A5-2014CS-TR	-	-	-	-	SEE PLANS	QT	
401	COOLER DOOR	ANTHONY	120/1/3W	6.0	N.F.D.S.	3#12, 1/2"C	TOP OF FRAME	QT	
405	ICE MERCHANDISER	TRUE GDIM-44NT-LD	120/1/3W	10.2	NEMA 5-20R	3#12, 1/2"C	18"	QT	
406	NOVELTY ICE CREAM FREEZER	TRUE GDM-26-HC-TSL01	120/1/3W	5.4	NEMA 5-20R	3#12, 1/2"C	18"	QT	
500	ICE BAGGER	FOLLETT #DBI000	208/1/3W	5.0	NEMA 6-15R	3#12, 1/2"C	SEE PLANS	QT	
507	AIR COMPRESSOR	MULTIPLEX APCV3D	120/1/3W	6.0	NEMA 5-20R	3#12, 1/2"C	26"	QT	
509	MULTIPLEX	MULTIPLEX #SCMR04	208/3/4W	11.0	HARDWIRED	4#12, 1/2"C	84"	QT	PROVIDE 20A CIRCUIT BREAKER IN ENCLOSURE FOR DISCONNECT.
510	WATER HEATER	RUUD E85A-12-S	208/3/4W	34.1	SEE NOTE	3#6, #10G, 1"C	34"	QT	PROVIDE 50A CIRCUIT BREAKER IN ENCLOSURE FOR DISCONNECT.
511	ELECTRICAL PANELS							QT	RE: PANEL SCHEDULES & E503
512	LOW VOLTAGE CABINET							QT	RE: SHEET E503
513	UPS	TRIPPLITE SU2200RTXLCD2U	120/1/3W	16.0	NEMA 5-20R	3#12, 1/2"C	108"	QT	RE: SHEET E503
518	WATER SOFTENER	3M/GUNO GPSM1254E	120/1/3W	1.0	NEMA 5-20R	3#12, 1/2"C	48"	PC	RE: PLUMBING SHEETS
519	BOOSTER PUMP - OPTIONAL	GOULDS #5GV	208/3/5W	15.0	N.F.D.S.	5#12, 1/2"C	60"	QT	NOTE 12 / PROVIDE SQUARE-D DU321 DISCONNECT SWITCH
	CONTROLLER	AQUAVAR CPC #20121	-	-	-	-	-	QT	INTEGRAL PRESSURE TRANSDUCER.
520	AIR DOOR	BERNER #CLC08-1042AA	120/1/3W	3.4	HARDWIRED	3#12, 1/2"C	96"	QT	PROVIDE MOTOR RATED SWITCH FOR DISCONNECT.
521	REGIRCULATION PUMP	GRUNDFOS #UP-15-18 BUCT	120/1/3W	1.7	HARDWIRED	3#12, 1/2"C	104"	PC	PROVIDE LINE CORD. RE: P503.
526	SECURITY CABINET							QT	
527	CONDENSATE PUMP	LITTLE GIANT VCCA-20ULS 554201101	120/1/3W	1.5	NEMA 5-20R	3#12, 1/2"C	18"	PC	
531	ELECTRIC HEATER	MARKEL #HF3316-T2-RPN	208/1/3W	14.4	HARDWIRED	3#12, 1/2"C	108"	QT	NOTE 3
534	ICE MAKER FOR BAGGER	HOSHIZAKI KM-1900SR,IZ3	208/3/4W	13.5	NEMA L15-20R	4#12, 1/2"C	SEE PLANS	QT	NOTE 8 / REMOTE CONDENSER (EQUIP #407)
546	CO2 VENTILATION FAN	CAPTIVEAIRE DFA-300-CA	120/1/3W	2.5	HARDWIRED	3#12, 1/2"C	SEE PLANS	QT	PROVIDE MOTOR RATED SWITCH FOR DISCONNECT ON ADJACENT STRUCTURE.
547	UPS BYPASS PANEL							QT	
549	CANOPY DRAIN HEAT TRACE	RAYCHEM #5M-1XT	120/1/3W	1.2	HARDWIRED	3#12, 1/2"C	AT ROOF LINE	PC	
550	FREEZER HEAT TRACE	RAYCHEM #FSH-1BP	120/1/3W	0.8	NEMA 5-20R	3#12, 1/2"C	96"	PC	PROVIDE WP COVER WITH GFCI.
551	WOW GLYCOL CHILLER	MICROMATIC MMPP4302-PKG	120/1/3W	21.0	NEMA L5-30R	3#10, 1/2"C	96"	QT	
552	WOW NITROGEN GENERATOR	MICROMATIC 33288U03	120/1/3W	5.0	NEMA 5-20R	3#12, 1/2"C	26"	QT	
554	WOW AUTOCLEAN		120/1/3W	3.0	NEMA 5-20R	3#12, 1/2"C	18"	QT	
555	WOW AIR COMPRESSOR		120/1/3W	16.0	NEMA 5-20R	3#12, 1/2"C	84"	QT	
600	PASTRY CASE	ENCORE CDR5123	120/1/3W	3.4	NEMA 5-15R	3#12, 1/2"C	-	QT	
601	CUSTOMER ORDER MACHINE	HEWLETT PACKARD #RP9 G1 #4018	120/1/3W	1.9	NEMA 5-20R	3#12, 1/2"C	26"	QT	
603	BLENDER	VITAMIX #36019	120/1/3W	15.0	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 5
604	UNDERCOUNTER FREEZER	TRUE #TUC-27F	120/1/3W	3.2	NEMA 5-15R	3#12, 1/2"C	*	QT	*NOTE 5
606	ICE CREAM MACHINE	STOELTING F131-38I2-QT	208/1/3W	11.0	NEMA 6-20R	3#12, 1/2"C	*	QT	*NOTE 5
610	UNDERCOUNTER REFRIGERATOR	TRUE #TUC-27	120/1/3W	3.9	NEMA 5-15R	3#12, 1/2"C	18"	QT	
611	DISHWASHER	MOYER DIEBEL #201HT-M4, 9KW BOOSTER	120/208/1/4W	45.0	NEMA 14-60R	3#4, 1#10G, 1"C	18"	QT	PROVIDE CORD AND PLUG FOR DISCONNECT IF NOT ALREADY EQUIPPED.
618	LED SCREEN		120/1/3W	2.0	NEMA 5-20R	3#12, 1/2"C	*	QT	*NOTE 5
621	PIZZA OVEN	OVENTION #SHUTTLE	208/1/3W	45	HARDWIRED	3#6, 3/4"C	16"	QT	NOTE 11
622	60" PIZZA GOLD PREP TABLE	TRUE #TPSU-60-16	120/1/3W	7.8	NEMA 5-15R	3#12, 1/2"C	*	QT	*NOTE 5
632	SUB OVEN	ACP #MRX2QT	208/1/3W	23.5	NEMA 6-30R	3#10, 1/2"C	*	QT	*NOTE 5
636	HOLDING CABINET	HATCO #CPHC-24	120/1/3W	9.2	HARDWIRED	3#12, 1/2"C	26"	QT	NOTE 11
638	72" SUB GOLD PREP TABLE	TRUE #TFP-72-30M-D-2	120/1/3W	5.1	NEMA 5-20R	3#12, 1/2"C	*	QT	*IN UNDERSIDE OF UTILITY CHASE AT FSC ISLAND
639	KMS SCREEN		120/1/3W	-	NEMA 5-20R	3#12, 1/2"C	26"	QT	
640	PRINTER		120/1/3W	1.0	NEMA 5-20R	3#12, 1/2"C	SEE PLANS	QT	
646	HEAT LAMP	HATCO UGAHL-18	120/1/3W	5.9	HARDWIRED	3#12, 1/2"C	*	QT	*NOTE 5, NOTE 11
647	STEAM DRAWERS	ANTUNES INFINISTEAM	208/1/3W	41.0	HARDWIRED	3#6, 3/4"C	*	QT	*NOTE 5, NOTE 11
648	COMBI OVEN	CONVOTHERM EASYTOUCH	208/3/4W	17.9	HARDWIRED	4#10, 1/2"C	*	QT	*NOTE 5, NOTE 11
800	POWER WASHER	SPRAY MASTER 300-5138 PG 5.0 CB	208/1/3W	16.7	NEMA L6-30R	3#10, 1/2"C	56"	QT	NOTE 1
807	NOT USED								
810	IRRIGATION BOOSTER PUMP - OPTIONAL	INCONTROL P22-6P5	208/120/3/5W	16.7	HARDWIRED	4#4, 1#10G, 1-1/4"C		QT	NOTE 4
902	CANDY CANE ROOF PENETRATION	ROOF PENETRATION						GC	PER ARCHITECTURAL PLANS
903	ROOF TOP UNIT	AAON RN-SERIES	208/3/4W	VARIES	N.F.D.S.	VARIES		QT	RE: MECHANICAL SHEETS
906	CUBED ICE MAKER CONDENSER UNIT	HOSHIZAKI URC-14FZ	120/1/3W	3.0	N.F.D.S.	3#12, 1/2"C		QT	WIRED IN CONJUNCTION WITH EQUIP #104.
907	ICE MAKER CONDENSER UNIT	HOSHIZAKI URC-22FZ	120/1/3W	3.0	N.F.D.S.	3#12, 1/2"C		QT	WIRED IN CONJUNCTION WITH EQUIP #534.
908	WALK-IN FREEZER EVAPORATOR	RUSSELL RL66OTTDDAL	208/1/3W	1.0	HARDWIRED	3#12, 1/2"C		QT	
909	TAKE HOME COOLER EVAPORATOR	RUSSELL RL6A1I5ADAL	120/1/3W	3.2	HARDWIRED	3#12, 1/2"C		QT	PROVIDE KEYED SWITCH AS DISCONNECT, RE: E103.
910	SINGLES COOLER EVAPORATOR	RUSSELL RL6A1I4IADAL	120/1/3W	2.4	HARDWIRED	3#12, 1/2"C		QT	PROVIDE KEYED SWITCH AS DISCONNECT, RE: E103.
911	CRUSHED ICE MAKER CONDENSER UNIT	HOSHIZAKI URC-22FZ	120/1/3W	3.0	N.F.D.S.	3#12, 1/2"C		QT	WIRED IN CONJUNCTION WITH EQUIP #105.
912B	TAKE HOME COOLER CONDENSING UNIT [110 DEG]	RUSSELL RF06OOE45EB	208/3/4W	30.9	60A FUSED D.S.	3#6, 1#10G, 3/4"C		QT	
913	EF-1 EXHAUST FAN	CAPTIVEAIRE DR33HFA	120/1/3W	4.3	FACTORY	3#12, 1/2"C		QT	RE: MECHANICAL SHEETS
914	H-1 EXHAUST HOOD	CAPTIVEAIRE 4824ND-2-PSP-F	-	-	-	-		QT	
915	EF-3 EXHAUST FAN	CAPTIVEAIRE DU50HFA	208/1/3W	3.8	FACTORY	3#12, 1/2"C		QT	RE: MECHANICAL SHEETS
916	TF-1 TRANSFER FAN	CAPTIVEAIRE CFA 500CA	120/1/3W	2.2	NEMA 5-20R	3#12, 1/2"C		QT	RE: MECHANICAL SHEETS
917	NOT USED								
918	WALK-IN FREEZER CONDENSING UNIT	RUSSELL RF0250L45EB	208/3/4W	26.0	N.F.D.S.	4#10, 1/2"C		QT	
922B	SINGLES COOLER CONDENSING UNIT [110 DEG]	RUSSELL RF06OOE45EB	208/3/4W	30.9	60A FUSED D.S.	3#6, 1#10G, 3/4"C		QT	
923	MULTIPLEX CONDENSING UNIT	MULTIPLEX TS-0845	208/1/3W	1.3	N.F.D.S.	3#12, 1/2"C		QT	WIRED IN CONJUCTION WITH EQUIP #509.
927	END CAP FLOOR COOLER CONDENSING UNIT	KEEPRITE KEZA035L8-HT3D	208/3/4W	13.8	N.F.D.S.	4#10, 1/2"C		QT	

NOTES:
1) PROVIDE GFCI AT BREAKER. CONTRACTOR TO PROVIDE A WATER TIGHT CORD AND PLUG. (HBL2620SW & HBL2621SW. RECEPTACLE SHALL BE RATED FOR "WET LOCATION." RE: PLUMBING DRAWINGS FOR ELEVATIONS.
2) CONTRACTOR SHALL FURNISH AND INSTALL MATCHING CORD (#10 AWG, TYPE "SO") AND PLUG.
3) FURNISHED WITH FACTORY MOUNTED DISCONNECT, THERMOSTAT, AND SURFACE-MOUNTING ADAPTER KIT.
4) COORDINATE WITH QT REPRESENTATIVE TO DETERMINE IF IRRIGATION BOOSTER PUMP IS REQUIRED.
5) RE: FSC ELEVATIONS FOR MOUNTING HEIGHT.
6) STACK WITHIN UTILITY CHASE IN MILLWORK. COORDINATE WITH QT MILLWORK DRAWINGS.
7) RE: ELEVATIONS ON SHEET E505.
8) CONTRACTOR SHALL FURNISH AND INSTALL MATCHING CORD (#12 AWG, TYPE "SO") AND PLUG.
9) CONTRACTOR SHALL FURNISH AND INSTALL MATCHING CORD (#8 AWG, TYPE "SO") AND PLUG.
10) CONTRACTOR SHALL FURNISH AND INSTALL MATCHING CORD (48" LONG, #6 AWG, TYPE "SO") AND PLUG.
11) DISCONNECT PER LOCKABLE CIRCUIT BREAKER.
12) RE: P102 WATER SERVICE BOX NOTE TO DETERMINE IF A BOOSTER PUMP IS REQUIRED.
13) CONTRACTOR SHALL FURNISH AND INSTALL MATCHING CORD (48" LONG, #10/4 AWG, TYPE "SO") AND PLUG.

GENERAL NOTES (APPLY TO ALL THE ABOVE):
A) ALL ELECTRICAL DEVICES ARE PROVIDED BY EC. ROUGH-IN MOUNTING HEIGHTS ARE CENTER OF BOX UNLESS NOTED OTHERWISE AND SHALL BE VERIFIED WITH THE EQUIPMENT MANUALS PRIOR TO COMMENCING WORK.
B) LABEL ALL RECEPTACLES WITH THE NAME OF THE EQUIPMENT THEY SERVE AND CIRCUIT NUMBERS.
C) RECEPTACLES OR DISCONNECT SWITCHES LOCATED PER PLAN. MOUNT TO WALL OR TO BACK OF WEDGE CAVITY OR CASEWORK AS APPLICABLE.
D) FURNISHED BY: QT=QUIKTRIP, PC=PLUMBING CONTRACTOR, MC=MECHANICAL CONTRACTOR, EC=ELECTRICAL CONTRACTOR.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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LEE'S SUMMIT, MISSOURI

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	GJSE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E602

MAIN DISTRIBUTION PANEL: T

SYSTEM: 208/120V, 3PH, 4W | LOCATION: OUTSIDE ON BLDG. | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 1600A M.L.O. | LUGS: TOP
OPTIONS: KEYED INTERLOCK | A.I.C. RATING: 65,000 | NEMA ENCLOSURE: 3R

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		SPACE				15	A	16	3,122	3	30	WALK-IN FREEZER CONDENSING UNIT (9.1B)		K
						-	B	-	3,122					K
						-	C	-	3,122					K
K	4	TAKE HOME COOLER CONDENSING UNIT (9.12B)	45	3	3,711	13	A	14		3	20	TV55	1	
K					3,711	-	B	-						
K					3,711	-	C	-						
		PANEL DD	225	3	20,963	11	A	12	3,711	3	45	SINGLES COOLER CONDENSING UNIT (9.22B)	4	K
					19,754	-	B	-	3,711					K
					18,814	-	C	-	3,711					K
		PANEL BB	225	3	19,737	9	A	10	13,806	3	150	RTU-1		MH
					20,701	-	B	-	13,806					MH
					19,470	-	C	-	13,806					MH
		PANEL B	225	3	5,987	7	A	8	13,806	3	150	RTU-2		MH
					6,683	-	B	-	13,806					MH
					7,069	-	C	-	13,806					MH
		PANEL C	225	3	19,473	5	A	6	13,806	3	150	RTU-3		MH
					17,481	-	B	-	13,806					MH
					15,124	-	C	-	13,806					MH
		PANEL EE	225	3	2,586	3	A	4	9,723	3	225	PANEL G		
					3,114	-	B	-	9,723					
					3,611	-	C	-	13,575					
	3	PANEL D	225	3	30,782	1	A	2		3	600	EMERGENCY POWER MAIN (WITH KEYED INTERLOCK)	2	
					24,978	-	B	-						
					27,674	-	C	-						
	2,3	MAIN (WITH KEYED INTERLOCK)	1600	3		-	A							
						-	B							
						-	C							

CONNECTED WATTS		DEMAND WATTS / AMPS		LOAD	CONNECTED	NEC FEEDER LOAD
PH A:	161,714	125,044	1026		413422 WATTS	382501 WATTS
PH B:	154,347	121,185	1010		1314 AMPS	1062 AMPS
PH C:	157,311	119,865	998			

NOTES: *FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 SWITCHBOARD FURNISHED WITH EMERGENCY POWER BREAKER KEY-INTERLOCKED TO MAIN BREAKER.
3 CIRCUIT BREAKER FURNISHED WITH 100% AMPERAGE RATING.

PANEL SHALL BE FURNISHED WITH ENERGY REDUCTION MAINTENANCE SETTING (ERMS) SWITCH IN ACCORDANCE WITH NEC 240.87 ARC ENERGY REDUCTION REQUIREMENTS.

GENERAL NOTES FOR PANELBOARDS

ALL ELECTRICAL PANELS AND GENERATOR TERMINAL CONNECTIONS ARE BE OWNER-FURNISHED / CONTRACTOR-INSTALLED UNLESS OTHERWISE NOTED. COORDINATE WITH GT REPRESENTATIVE.

EMERGENCY FUEL CUTOFF

ALL FUEL DISPENSING MUST HAVE EMERGENCY POWER CUTOFF PER NEC 514.11. RE: FUEL DRAWINGS FOR EMERGENCY FUEL SHUTDOWN DIAGRAM AND EMERGENCY SWITCH LOCATIONS. RE: FUEL DRAWINGS FOR ALL CIRCUITS REQUIRED FOR FUEL INSTALLATION. COORDINATE WITH GT REPRESENTATIVE.

SUB PANEL: GG

SYSTEM: 120V, 3PH, 3W | LOCATION: CORRIDOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 125A M.L.O. | LUGS: TOP
OPTIONS: | A.I.C. RATING: 65K FULLY RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		SPARE	20	1		1	G	2		1	20	TV55	1	
		SPARE	20	1		3	G	4		1	20	SPARE		
F	1	FUELING CONTROLS	15	1	30	5	G	6	200	1	20	MPD #1/2	4	F
G	1,2	INTERCOM / WARREN ROGERS	20	1	360	7	G	8	200	1	20	MPD #3/4	4	F
G	1,2	TANK MONITOR	20	1	1080	9	G	10	200	1	20	MPD #5/6	4	F
G		UPS-A POWER	20	1	1480	11	G	12	200	1	20	MPD #7/8	4	F
G		UPS-A BYPASS	20	1	0	13	G	14	200	1	20	MPD #9/10	4	F
		SPARE	20	1		15	G	16	200	1	20	MPD #11/12	4	F
		SPARE	20	1		17	G	18	200	1	20	MPD #13/14	4	F
		SPARE	20	1		19	G	20	200	1	20	MPD #15/16	4	F
		SPARE	20	1		21	G	22		1	20	SPARE		
		SPARE	20	1		23	G	24		1	20	SPARE		
		SPARE	20	1		25	G	26		1	20	SPARE		
		SPARE	20	1		27	G	28		1	20	SPARE		
		SPARE	20	1		29	G	30		1	20	SPARE		
		SPARE	20	1		31	G	32		1	20	SPARE		
		SPARE	20	1		33	G	34		1	20	SPARE		
		SPARE	20	1		35	G	36		1	20	SPARE		
		SPARE	20	1		37	G	38		1	20	SPARE		
		SPARE	20	1		39	G	40		1	20	SPARE		
G	1	TV55 STATUS LIGHTS	15	1	0	41	G	42		1	20	SPARE		

	CONNECTED WATTS	DEMAND WATTS / AMPS		LOAD	CONNECTED	NEC FEEDER LOAD
PH G:	4,510	4,510	38		4510 WATTS	4510 WATTS
					38 AMPS	38 AMPS

NOTES: *FURNISHED WITH PANEL COVER WITH LOCKING DOOR
*FUEL PANEL, RE: FUEL DRAWINGS FOR POWER TO EQUIPMENT
*FUEL COMPONENTS ROUTED THROUGH EMERGENCY SHUT DOWN CONTROLS.
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 CIRCUIT BREAKER FURNISHED WITH LOCK ATTACHMENT.
3 CIRCUIT BREAKER FURNISHED WITH HANDLE LOCK-OFF.

SUB PANEL: G

SYSTEM: 208/120V, 3PH, 4W | LOCATION: CORRIDOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.L.O. | LUGS: TOP
OPTIONS: | A.I.C. RATING: 65K/10K SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
F		EO FUEL PUMP	20	3	1,801	1	A	2	1,801	3	20	REGULAR #1 FUEL PUMP		F
F		4HP			1,801	3	B	4	1,801			4HP		F
F					1,801	5	C	6	1,801					F
F		PREMIUM FUEL PUMP	20	3	1,801	7	A	8	1,801	3	20	REGULAR #2 FUEL PUMP		F
F		4HP			1,801	9	B	10	1,801			4HP		F
F					1,801	11	C	12	1,801					F
F		AUTO DIESEL FUEL PUMP	20	3	1,801	13	A	14	0	3	20	RESERVED SPACE		
F		4HP			1,801	15	B	16	0					
F					1,801	17	C	18	0					
		SPARE	20	3		19	A	20	0	3	20	RESERVED SPACE		
						21	B	22	0					
						23	C	24	0					
		SPARE	20	1		25	A	26	0	3	20	RESERVED SPACE		
		SPARE	20	1		27	B	28	0					
		SPARE	20	1		29	C	30	0					
		SPARE	20	1		31	A	32	0	3	20	RESERVED SPACE		
		SPARE	20	1		33	B	34	0					
		SPARE	20	1		35	C	36	0					
		SPARE	20	1		37	A	38	0	3	20	RESERVED SPACE		
		SPARE	20	1		39	B	40	0					
		SPARE	20	1		41	C	42	0					
		SPARE	20	1		43	A	44	0	3	20	RESERVED SPACE		
		SPARE	20	1		45	B	46	0					
		SPARE	20	1		47	C	48	0					
	1	TV55	20	3		44	A	50	718	2	15	CANOPY .75 HP		L
						51	B	52	718			SUMP VENTILATION FAN		L
						53	C	54	4,570	1	70	PANEL GG		R

CONNECTED WATTS		DEMAND WATTS / AMPS		LOAD	CONNECTED	NEC FEEDER LOAD
PH A:	9,723	9,903	83		33021 WATTS	33380 WATTS
PH B:	9,723	9,903	83		92 AMPS	93 AMPS
PH C:	13,575	13,575	113			

NOTES: *FURNISHED WITH PANEL COVER WITH LOCKING DOOR
*FUEL PANEL, RE: FUEL DRAWINGS FOR POWER TO EQUIPMENT
*FUEL COMPONENTS ROUTED THROUGH EMERGENCY SHUT DOWN CONTROLS.
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.

SUB PANEL: BB

SYSTEM: 208/120V, 3PH, 4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.L.O. | LUGS: BOTTOM
OPTIONS: | A.I.C. RATING: 65K/10K SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		SPARE	20	1		1	A	2	1,801	3	20	BOOSTER PUMP (5.1H) (OPTIONAL RE: PLUMBING)		G
K	2	IRON AIR COMPRESSOR (5.55)	20	1	1,800	3	B	4	1,801					G
L		EXHAUST FAN 1 - TOILETS (4.1J)	20	1	756	5	C	6	1,801					G
K		END CAP FLOOR COOLER CONDENSING UNIT-1 (9.2.1)	25	3	1,651	7	A	8		2	40	SPARE		
K					1,651	9	B	10						
K					1,651	11	C	12	600	1	20	NITROGEN GENERATOR (5.52)	2	K
K		END CAP FLOOR COOLER CONDENSING UNIT-2 (9.2.1)	25	3	1,651	13	A	14	4,100	3	50	WATER HEATER (5.10)		K
K					1,651	15	B	16	4,100					K
K					1,651	17	C	18	4,100					K
K	2	IRON GLYCOL CHILLER (5.51)	30	1	2,520	19	A	20	1,498	2	15	ELECTRIC UNIT HEATER (5.31)		H
G		UPS-VA POWER	20	2	460	21	B	22	1,498					H
G					460	23	C	24	1,800	1	20	COFFEE BAR ICE MACHINE (1.24)	2	K
G	2	POWER WASHER (8.00)	30	2	1,731	25	A	26	720	1	20	ROOFTOP RCPTS		R
G					1,731	27	B	28	1,584	1	20	BACK BLDG DOWN LIGHTING (2)	3	L
K		MULTIPLEX (5.04)	20	3	2,042	29	C	30	1,584	1	20	FRONT BLDG DOWN LIGHTING (2)	3	L
K					2,042	31	A	32		1	20	SPARE		
K					2,042	33	B	34	360	1	20	IRON AUTOCLEAN (5.54)	2	K
G		AIR COMPRESSOR (5.07)	20	1	720	35	C	36	288	1	20	CO2 VENT FAN		G
	1	TV55	20	3		37	A	38	2,005	3	30	IRRIGATION BOOSTER PUMP (8.10) (OPTIONAL)		G
						39	B	40	2,005					G
						41	C	42	2,005					G

	CONNECTED WATTS	DEMAND WATTS / AMPS		LOAD	CONNECTED	NEC FEEDER LOAD
PH A:	19,737	15,545	130		59409 WATTS	48483 WATTS
PH B:	20,701	17,031	142		166 AMPS	135 AMPS
PH C:	19,470	15,906	133			

NOTES: *FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 CIRCUIT BREAKER FURNISHED WITH GFCI.
3 ROUTE CIRCUIT THROUGH OUTSIDE LIGHTING CONTROL SYSTEM - STAGE NUMBER INDICATOR IN PARENTHESIS.

SUB PANEL: B

SYSTEM: 208/120V, 3PH, 4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.L.O. | LUGS: TOP
OPTIONS: | A.I.C. RATING: 65K/10K SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
L	4	GAS CANOPY LIGHTS (2)	20	2	312	1	A	2		3	20	TV55	1	
L		(STORE)			312	3	B	4						
L	4	GAS CANOPY LIGHTS (2)	20	2	312	5	C	6						
L		(STORE)			312	7	A	8	188	2	20	PARKING LOT LIGHTS (3)	4	L
L	4	GAS CANOPY LIGHTS (3)	20	2	312	9	B	10	188			(4 POLE LIGHTS NEAR BLDG)		L
L		(STREET)			312	11	C	12	188	2	20	PARKING LOT LIGHTS (3)	4	L
L	4	GAS CANOPY LIGHTS (3)	20	2	312	13	A	14	188			(4 POLE LIGHTS NORTH)		L
L		(STREET)			312	15	B	16	282	2	20	PARKING LOT LIGHTS (3)	4	L
L	4	GAS CANOPY LIGHTS (3)	20	2		17	C	18	282			(6 POLE LIGHTS SOUTH)		L
L		(SPARE)				19	A	20	188	2	20	PARKING LOT LIGHTS (3)	4	L
		SPARE	20	1		21	B	22	188			(4 POLE LIGHTS SOUTH)		L
		SPARE	20	1		23	C	24	200	1	20	LIGHTING CONTACTOR	1	L
		SPARE	20	1		25	A	26	1,200	1	20	BLDG SIDE ENTRY SIGNS (1)	4	L
		SPARE	20	1		27	B	28	1,200	1	20	BLDG FRONT CANOPY SIGN (1)	4	L
		SPARE	20	1		29	C	30	408	1	20	GT BUTTON SIGNS (1)	4	L
L	4	GAS CANOPY SIGN (1)	20	1	1,200	31	A	32	360	1	20	BUILDING L.E.D. (1)	4	L
L	4	GAS CANOPY L.E.D. (1)	20	1	960	33	B	34	248	1	20	FRONT & REAR EXTERIOR LTS (2)	4	L
L	5,6	CANOPY DRAIN HEAT TRACE (5.41)	20	1	1,584	35	C	36	123	2	20	STORE EXTERIOR LIGHTS (2)	4	L
		SPARE	20	1		37	A	38	123					L
G	2	AIR COMPRESSOR	20	1	1,680	41	C	42	1,200	1	20	MONUMENT PRICER		L
G		LAWN SPRINKLER	20	1	180	43	A	44	1,004	1	20	FSG DOWNLIGHTS/(646) HEAT LAMP	3	L
G		EXTERIOR CAMERAS LOOP 1	20	1	240	45	B	46	497	1	20	REAR FSG LIGHTS		L
G		EXTERIOR CAMERAS LOOP 2	20	1	480	47	C	48		1	20	SPARE		
G		EXTERIOR CAMERAS LOOP 3	20	1	240	49	A	50		1	20	SPARE		
G		EXTERIOR CAMERAS LOOP (SPARE)	20	1	0	51	B	52	564	1	20	RECIRC PUMP (5.21)		L
		SPARE	20	1		53	C	54	180	1	20	GEN PLUMBING RM RCPT		R

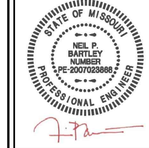
CONNECTED WATTS		DEMAND WATTS / AMPS		LOAD	CONNECTED	NEC FEEDER LOAD
PH A:	5,987	7,376	61		19738 WATTS	23923 WATTS
PH B:	6,683	8,294	69		55 AMPS	66 AMPS
PH C:	7,069	8,251	69			

NOTES: *FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 CIRCUIT BREAKER FURNISHED WITH GFCI.
3 CIRCUIT BREAKER FURNISHED WITH HANDLE LOCK OFF.
4 ROUTE CIRCUIT THROUGH OUTSIDE LIGHTING CONTROL SYSTEM - STAGE NUMBER INDICATER IN PARENTHESIS.
5 ROUTE CIRCUIT THROUGH AMBIENT AIR THERMOSTAT, FURNISHED BY PC, INSTALLED BY EC. RE: CANOPY HEAT TRACE DETAIL.
6 CIRCUIT BREAKER FURNISHED WITH 30mA GFEP.

ELECTRICAL LOAD SUMMARY

CODE	DESCRIPTION	MAIN PANEL T	SUB PANELS B	BB	G	D	DD	EE	G		CONNECTED TOTAL	NEC DEMAND FACTORS	NEC FEEDER LOAD
K	KITCHEN EQUIPMENT	241254	0	35448	32458	82646	58570	0	0		241254	0.65	156815
L	CONTINUOUS LOADS (LTG)	29193	16738	3924	5805	780	0	500	1436		29193	1.25	36491
G	MISCELLANEOUS	30936	2820	16821	2328	0	0	6047	2120		30936	1.00	30936
F	FUEL PUMP,	28665	0	0	0	0	0	0	28665		28665	0.50	14333
R	RECEPTACLE	14612	180	720	11492	0	960	1260	0		10000	1.00	10000
	RECEPT OVER 10 KVA										4612	0.50	2306
M	MOTORS (CONT.)	11456	0	0	0	0	0	0	0		11456	1.25	14321
C	*COOLING	67226	0	0	0	0	0	0	0		0	0.00	0
H	*ELECTRIC HEAT	113105	0	2915	0	0	0	1510	0		113105	1.00	113105
	* THE LARGER OF THESE (2) LOADS HAS A DEMAND FACTOR OF 1.00, AND THE SMALLER HAS A DEMAND FACTOR OF ZERO.												
	TOTALS (WATTS):	413422	19738	59809	52564	83436	59530	9317	33021		413422		382501
	TOTALS (AMPS):	1314	55	166	146	232	165	26	92		1314		1062

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025



SIGNATURE DATE: 11/25/2024

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Missouri Certificate of Authority #001022

QuikTrip No. 0183R

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PROTOTYPE	P-120
DIVISION	KANSAS CITY
VERSION	G3SE
DATE	11-01-2024

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:
E610

A1 | ELECTRICAL PANEL SCHEDULES

SUB PANEL: CC - SECTION 2

SYSTEM: 208/120V,3PH,4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.L.O. | LUGS: BOTTOM
OPTIONS: | AIC RATING: 65kA/10k SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CKT NO.	PHASE	CKT NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
K		END CAP FLOOR COOLER (218)	20	1	932	1	A	2		1	20	SPARE		
K	2	CONDENSATE PUMP (521)	20	1	180	3	B	4	725	1	20	CENTER SALES LIGHTS		L
		SPARE	20	1		5	C	6	422	1	20	COOLER LIGHTS		L
K	2	ROLLER GRILL-1 (205)	20	1	1,430	7	A	8	180	1	20	GENERAL RECEPTACLE-JANITOR		R
K	2,4	BUN WARMER-1 (204)	20	1	1,430	9	B	10	180	1	20	GENERAL RECEPT-TRASH ROOM		R
K	2,4	ROLLER GRILL-2 (205)	20	1	180	11	C	12	509	1	20	SALES FLOOR COFFEE LIGHTS		L
K	2,4	ROLLER GRILL-3 (205)	20	1	516	13	A	14	621	1	20	SALES FLOOR FOUNTAIN LIGHTS		L
K	2,4	BUN WARMER-2 (204)	20	1	1,430	15	B	16	440	1	20	FOUNTAIN_COFFEE DIRECTION LIGHTS		L
R	2,4	GENERAL RCPT RG-1	20	1	180	17	C	18	396	1	20	R.G., ATM/LOTTO SPOT LIGHTS		L
K	2,4	ROLLER GRILL-6 (205)	20	1	1,430	19	A	20	198	1	20	WOMEN'S ROOM LIGHTS		L
K	2,4	ROLLER GRILL-7 (205)	20	1	516	21	B	22	216	1	20	MEN'S ROOM LIGHTS		L
K	2	GENERAL RCPT RG-2	20	1	180	23	C	24	1,920	1	20	WINDOW SHADES	3	G
R	2	SOLENOID VALVES	20	1	180	25	A	26	360	1	20	GENERAL RCPT COLD WELL	2	K
L		COOLER DOOR LIGHTS - SINGLES	20	1	1,234	27	B	28	1,070	1	20	COLD WELL (220)	2	K
L		COOLER DOOR LIGHTS - TH	20	1	1,044	29	C	30	180	1	20	GENERAL RCPT CB-1	2,4	K
K	5	FREEZER HEAT TRACE	20	1	240	31	A	32	960	1	20	CHILI-CHEESE (208)	2,4	K
		SPARE	20	1		33	B	34	480	1	20	COLD BAR (213)	2,4	K
K	2	PASTRY CASE (600)	15	1	408	35	C	36	180	1	20	GENERAL RCPT CB-1	2	K
	1	TV55	20	3		37	A	38	1,900	1	20	MICROWAVE-1 (207)	2	K
						39	B	40	1,900	1	20	MICROWAVE-2 (207)	2	K
		SPARE				41	C	42		1	20	SPARE		

	CONNECTED WATTS
PH A:	8,947
PH B:	9,801
PH C:	5,598

DEMAND	WATTS / AMPS
6,433	54
8,003	67
5,747	48

LOAD	CONNECTED	NEC FEEDER LOAD
	24347 WATTS	20233 WATTS
	68 AMPS	56 AMPS

NOTES:
*FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 CIRCUIT BREAKER FURNISHED WITH GFCI.
3 CIRCUIT BREAKER FURNISHED WITH LOCK ATTACHMENT.
4 CIRCUIT BREAKER FURNISHED WITH 2-POLE HANDLE TIE.
5 CIRCUIT BREAKER FURNISHED WITH 30mA GFEP.

SUB PANEL: DD

SYSTEM: 208/120V,3PH,4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.L.O. | LUGS: BOTTOM
OPTIONS: | AIC RATING: 65kA/10k SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CKT NO.	PHASE	CKT NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
K	2	ICEMAKER (104, 906)	20	2	1,300	1	A	2	2070	2	30	ICEMAKER-1 (105, 911)	2	K
R		(CUBE)			1,300	3	B	4	2070			(CRUSHED)		K
K	2	ICEMAKER-2 (105, 911)	30	2	2,070	5	C	6	420	1	20	FOUNTAIN MACHINE (102)	2	K
K		(CRUSHED)			2,070	7	A	8	180	1	20	LOTTO (116)		R
K	2	FOUNTAIN MACHINE-1 (103)	20	1	620	9	B	10	240	1	20	ATM (117)		R
K	2	FOUNTAIN MACHINE-2 (103)	20	1	620	11	C	12	1,700	1	20	ICED TEA DISPENSER-1 (101)	2	K
R		LOTTO TICKET READER (116)	20	1	180	13	A	14	1,700	1	20	ICED TEA DISPENSER-2 (101)	2	K
K	2	FREEZONI MACHINE-1 (106)	30	2	2,342	15	B	16	1,700	1	20	ICED TEA DISPENSER-3 (101)	2	K
K					2,342	17	C	18	1,700	1	20	ICED TEA DISPENSER-4 (101)	2	K
K	2	FREEZONI MACHINE-2 (106)	30	2	2,342	19	A	20	1,700	1	20	ICED TEA DISPENSER-5 (101)	2	K
K					2,342	21	B	22	1,700	1	20	ICED TEA DISPENSER-6 (101)	2	K
K	2	FREEZONI MACHINE-3 (106)	30	2	2,342	23	C	24	2,500	2	30	COFFEE HEAT EXCHANGER #1 (122)	2	K
K					2,342	25	A	26	2,500					K
K	2	SMOOTHIE MACHINE-1 (108)	20	1	1,800	27	B	28	2,500	2	30	COFFEE HEAT EXCHANGER #2 (122)	2	K
K	2	SMOOTHIE MACHINE-2 (108)	20	1	1,800	29	C	30	2,500					K
K	2	SMOOTHIE MACHINE-3 (108)	20	1	1,800	31	A	32	2,500	2	30	COFFEE HEAT EXCHANGER #3 (122)	2	K
R		GENERAL RECEPT-FOUNTAIN	20	1	360	33	B	34	2,500					K
G	1	ERMS	15	1	0	35	C	36	180	1	20	COFFEE BAR GEN RCPT #1	2	K
	1	TV55	20	3		37	A	38	180	1	20	COFFEE BAR GEN RCPT #2	2	K
						39	B	40	180	1	20	COFFEE BAR GEN RCPT #3	2	K
						41	C	42	540	1	20	COFFEE NOW WALL RCPT #1	2	K

	CONNECTED WATTS
PH A:	20,963
PH B:	19,754
PH C:	18,814

DEMAND	WATTS / AMPS
13,752	115
13,050	109
12,229	102

LOAD	CONNECTED	NEC FEEDER LOAD
	54530 WATTS	39031 WATTS
	165 AMPS	108 AMPS

NOTES:
*FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 CIRCUIT BREAKER FURNISHED WITH GFCI.

SUB PANEL: EE - SECTION 1

SYSTEM: 208/120V,3PH,4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.L.O. | LUGS: BOTTOM, DUAL FEED THRU LUGS
OPTIONS: | AIC RATING: 65kA/10k SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CKT NO.	PHASE	CKT NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
G		TFI 4 VAV DIFF.	20	1	264	1	A	2		1	20	SPARE		
R		L.V. CABINET GENERAL RCPT-1	20	1	180	3	B	4		1	20	SPARE		
R		L.V. CABINET GENERAL RCPT-2	20	1	720	5	C	6		1	20	SPARE		
G	1	EMERSON EMS	20	1	540	7	A	8	1,422	1	20	UPS-D POWER	2	G
L		EMERSON LT6 CONTROLS	20	1	500	9	B	10	755	1	20	COOLER DOOR HTRS-TH-1		H
G		CUSTOMER ALERT	20	1	360	11	C	12	755	1	20	COOLER DOOR HTR-SINGLES-1		H
R		IT RACK	20	1	360	13	A	14	0	1	20	UPS-D BYPASS	2	G
G	2	UPS-C POWER	20	1	1674	15	B	16	0	1	20	UPS-C BYPASS	2	G
G	2	UPS-B POWER	20	1	1182	17	C	18	0	1	20	UPS-B BYPASS	2	G
		SPARE	20	1		19	A	20		1	20	SPARE		
		SPARE	20	1		21	B	22		1	20	SPARE		
		SPARE	20	1		23	C	24		1	20	SPARE		
		SPARE	20	1		25	A	26		1	20	SPARE		
		SPARE	20	1		27	B	28		1	20	SPARE		
		SPARE	20	1		29	C	30		1	20	SPARE		
		SPARE	20	1		31	A	32		1	20	SPARE		
		SPARE	20	1		33	B	34		1	20	SPARE		
		SPARE	20	1		35	C	36		1	20	SPARE		
	1	TV55	20	3		37	A	38		1	20	SPARE		
						39	B	40		1	20	SPARE		
						41	C	42		1	20	SPARE		

	CONNECTED WATTS
PH A:	2586
PH B:	3,114
PH C:	3,617

DEMAND	WATTS / AMPS
2586	22
3,234	27
3,617	30

LOAD	CONNECTED	NEC FEEDER LOAD
	9317 WATTS	4442 WATTS
	26 AMPS	26 AMPS

NOTES:
*FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 ENSURE UPS POWER AND BYPASS CIRCUITS ARE ON THE SAME PHASE.

SUB PANEL: C - SECTION 1

SYSTEM: 208/120V,3PH,4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.L.O. | LUGS: TOP, DUAL FEED THRU LUGS
OPTIONS: | AIC RATING: 65kA/10k SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CKT NO.	PHASE	CKT NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
K		TAKE HOME EVAPORATORS	20	1	768	1	A	2		3	20	TV55	1	
K		SINGLES COOLER EVAPORATORS	20	1	864	3	B	4						
		SPARE	20	1		5	C	6						
R		POS-1 (300)	20	1	720	7	A	8	540	1	20	MENU BOARDS	2	R
R		POS-2 (300)	20	1	720	9	B	10	480	1	20	LCD SCREEN (618)	2	R
R		POS-3 (300)	20	1	720	11	C	12	432	1	20	END CAP FLOOR COOLER (218)	2	R
R		SAFE (306)	20	1	360	13	A	14	720	1	20	PRINTER (640)	2	K
R		SAFE (307)	20	1	360	15	B	16	408	1	15	AIR DOOR (520)	4	G
R		REF (311)	20	1	180	17	C	18	180	1	20	LACTATION OUTLET		K
R		LOTTO (305)	20	1	360	19	A	20	420	1	20	CENTER SALES COOLER	2	K
R		PRINTER (310) / VOIP	20	1	540	21	B	22	1,224	1	20	ICE MERCHANDISER (405)	2	K
		SPARE	20	1		23	C	24	1,260	1	20	SECURITY MONITOR		R
		SPARE	20	1		25	A	26	648	1	20	NOVELTY ICE CREAM (406)	2	K
		SPARE	20	1		27	B	28	180	1	20	GENERAL RECEPT AT (406)	2	R
R	2,5	ISLAND RECEPTACLES TOP-1	20	1	450	29	C	30	1,144	2	20	ICE CREAM (606)	2	K
R	2,5	ISLAND RECEPTACLES TOP-2	20	1	450	31	A	32	1,144					K
R	2,6	ISLAND RECEPTACLES MID-1	20	1	180	33	B	34		1	20	SPARE		
R	2,6	ISLAND RECEPTACLES MID-2	20	1	180	35	C	36		1	20	SPARE		
R	2,6	ISLAND RECEPTACLES MID-3	20	1	180	37	A	38		1	20	SPARE		
R	2,6	ISLAND RECEPTACLES MID-4	20	1	180	39	B	40	360	1	20	REAR FSC GENERAL RCPT	2	K
R	2,6	ISLAND RECEPTACLES MID-5	20	1	180	41	C	42	468	1	15	UC REFRIGERATOR (610)	2	K
R	2,6	ISLAND RECEPTACLES MID-6	20	1	180	43	A	44	1,800	1	20	KITCHEN HOOD (914)	3	K
K	2,5	ISLAND RECEPT BOTTOM - UC REF	15	1	468	45	B	46	1,260	1	20	CUSTOMER ORDER MACHINE	2	R
K	2,5	ISLAND REC BOTTOM - COLD PREP-1	15	1	936	47	C	48	1,800	1	20	BLENDER-1 (603)	2	K
K	2,5	ISLAND REC BOTTOM - COLD PREP-2	15	1	936	49	A	50	1,800	1	20	BLENDER-2 (603)	2	K
K	2,5	ISLAND RECEPT BOTTOM - UC FRZ	20	1	276	51	B	52	180	1	20	CONDENSATE PUMP (521)	2	K
G	1	TV55 STATUS LIGHT	15	1	0	53	C	54	1,100	1	20	PIZZA HOLDING CABINET (636)	4	K

	CONNECTED WATTS
PH A:	19,973
PH B:	17,481
PH C:	15,129

DEMAND	WATTS / AMPS
14,571	121
14,502	121
13,421	112

LOAD	CONNECTED	NEC FEEDER LOAD
	52584 WATTS	42500 WATTS
	146 AMPS	118 AMPS

NOTES:
*FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 CIRCUIT BREAKER FURNISHED WITH GFCI.
3 CIRCUIT BREAKER FURNISHED WITH HANDLE LOCK OFF.
4 CIRCUIT BREAKER FURNISHED WITH LOCK ATTACHMENT.
5 CIRCUIT BREAKER FURNISHED WITH 2 POLE HANDLE TIE.
6 CIRCUIT BREAKER FURNISHED WITH 3 POLE HANDLE TIE.

SUB PANEL: D

SYSTEM: 208/120V,3PH,4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.C.B. | LUGS: TOP
OPTIONS: | AIC RATING: 65kA/10k SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CKT NO.	PHASE	CKT NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		SPARE	20	1	0	1	A	2		3	20	TV55	1	
L		EX FAN 3 - HOOD (915)	15	2	345	3	B	4						
L					345	5	C	6						
K	3,4,5	COMBI OVEN-1 (648)	30	3	2,150	7	A	8	2,985	2	30	5-TIER HOT DISPLAY (217)	2	K
K					2,150	9	B	10	2,985					K
K					2,150	11	C	12		1	20	SPARE		
K	3,4,5	COMBI OVEN-2 (648)	30	3	2,150	13	A	14	4,200	2	50	STEAM DRAWER (641)	3,4	K
K					2,150	15	B	16	4,200					K
K					2,150	17	C	18	4,680	2	60	DISHWASHER (611)	2,6	K
K	2	SUBS OVEN-1 (632)	30	2	2,448	19	A	20	4,680					K
K					2,448	21	B	22		1	20	SPARE		
K	2	SUBS OVEN-2 (632)	30	2	2,448	23	C	24		3	20	SPARE		
K					2,448	25	A	26						
		SPARE	20	1		27	B	28						
		SPARE	20	1		29	C	30	1,621	3	20	BAGGER ICE MAKER	2	K
		SPARE	20	1		31	A	32	1,621			(534901)		K
		SPARE	20	1		33	B	34	1,621					K
K	3,4,5	PIZZA OVEN-1 (621)	50	2	4,680	35	C	36	520	2	15	ICE BAGGER (500)	2	K
K					4,680	37	A	38	520					K
K	3,4,5	PIZZA OVEN-2 (621)	50	2	4,680	39	B	40	1,450	2	20	BEAN TO CUP COFFEE-1 (120)	2	K
K					4,680	41	C	42	1,450					K
		SPARE	20	1		43	A	44	1,450	2	20	BEAN TO CUP COFFEE-2 (120)	2	K
		SPARE	20	1		45	B	46	1,450					K
		SPARE	20	1		47	C	48	1,450	2	20	BEAN TO CUP COFFEE-3 (120)	2	K
		SPARE	20	1		49	A	50	1,450					K
		SPARE	20	1		51	B	52	1,450	2	20	BEAN TO CUP COFFEE-4 (120)	2	K
		SPARE	20	1		53	C	54	1,450					K

	CONNECTED WATTS
PH A:	30,182
PH B:	24,979
PH C:	27,614

DEMAND	WATTS / AMPS
20,008	167
16,473	137
18,225	152

LOAD	CONNECTED	NEC FEEDER LOAD
	83436 WATTS	54707 WATTS
	232 AMPS	152 AMPS

NOTES:
*FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.
2 CIRCUIT BREAKER FURNISHED WITH GFCI.
3 CIRCUIT BREAKER FURNISHED WITH HANDLE LOCK OFF.
4 INSTALL OWNER-FURNISHED CURRENT TRANSFORMER TO DETECT AMP DRAW FROM ANY OVEN TO ENABLE HOOD FAN. WIRE TO EMERSON PANEL.
5 ROUTE CIRCUIT THROUGH CONTACTOR FOR SHUT DOWN CONTROL OF EQUIPMENT UNDER THE KITCHEN HOOD.
6 CONNECT NEUTRAL WIRE TO CIRCUIT BREAKER NEUTRAL TERMINAL FOR PROPER GROUND FAULT PROTECTION.

SQUARE-D SUB PANEL: E - SECTION 2

SYSTEM: 208/120V,3PH,4W | LOCATION: EXTERIOR | CABINET MOUNTING: SURFACE
FEEDER: SEE RISER DIAGRAM | MAINS: 225A M.C.B. | LUGS: TOP
OPTIONS: | AIC RATING: 65kA/10k SERIES RATED | NEMA ENCLOSURE: 1

CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CKT NO.	PHASE	CKT NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
		SPARE	20	1		1	A	2		3	20	TV55	1	
		SPARE	20	1		3	B	4						
		SPARE	20	1		5	C	6						
		SPARE	20	1		7	A	8		1	20	SPARE		
		SPARE	20	1		9	B	10		1	20	SPARE		
		SPARE	20	1		11	C	12		1	20	SPARE		
		SPARE	20	1		13	A	14		1	20	SPARE		
		SPARE	20	1		15	B	16		1	20	SPARE		
		SPARE	20	1		17	C	18		1	20	SPARE		
		SPARE	20	1		19	A	20		1	20	SPARE		
		SPARE	20	1		21	B	22		1	20	SPARE		
		SPARE	20	1		23	C	24		1	20	SPARE		
		SPARE	20	1		25	A	26		1	20	SPARE		
		SPARE	20	1		27	B	28		1	20	SPARE		
		SPARE	20	1		29	C	30		1	20	SPARE		
		SPARE	20	1		31	A	32		1	20	SPARE		
		SPARE	20	1		33	B	34		1	20	SPARE		
		SPARE	20	1		35	C	36		1	20	SPARE		
		SPARE	20	1		37	A	38		1	20	SPARE		
		SPARE	20	1		39	B	40		1	20	SPARE		
		SPARE	20	1		41	C	42		1	20	SPARE		
		SPARE	20	1		43	A	44		1	20	SPARE		
		SPARE	20	1		45	B	46		1	20	SPARE		
		SPARE	20	1		47	C	48		1	20	SPARE		
		SPARE	20	1		49	A	50		1	20	SPARE		
		SPARE	20	1		51	B	52		1	20	SPARE		
		SPARE	20	1		53	C	54		1	20	SPARE		

	CONNECTED WATTS
PH A:	0
PH B:	0
PH C:	0

DEMAND	WATTS / AMPS
0	0
0	0
0	0

LOAD	CONNECTED	NEC FEEDER LOAD
	0 WATTS	0 WATTS
	0 AMPS	0 AMPS

NOTES:
*FURNISHED WITH PANEL COVER WITH LOCKING DOOR
1 EQUIPMENT PRE-INSTALLED WITHIN PANEL SYSTEM.

UPS-A : LOAD SUMMARY

SYSTEM: 120V, 1PH | LOCATION: WORKROOM 2
FEEDER: (2) 3#12 IN 1/2"C | CABINET MOUNTING: IT RACK
NOMINAL CAPACITY: 2200 VA
AVAILABLE CAPACITY: 1800 W

TERMINAL	DESCRIPTION	LOAD	LOCATION
1	POS-1	280 W	CHECKSTAND
	POS-2	280 W	CHECKSTAND
	POS-3	280 W	CHECKSTAND
	PPD CHARGE DEVICE	180 W	CHECKSTAND
2	STORE PC	230 W	CHECKSTAND
	BUDDY PC	230 W	CHECKSTAND
3	(SPARE)		
4	(SPARE)		
5	(SPARE)		
	CONNECTED WATTAGE:	1480 W	

UPS-B : LOAD SUMMARY

SYSTEM: 120V, 1PH | LOCATION: WORKROOM 2
FEEDER: (2) 3#12 IN 1/2"C | CABINET MOUNTING: IT RACK
NOMINAL CAPACITY: 2200 VA
AVAILABLE CAPACITY: 1800 W

TERMINAL	DESCRIPTION	LOAD	LOCATION
1	ROUTER 1	25 W	TELEPHONE BOARD
	DATA REMOTE	20 W	TELEPHONE BOARD
	SWITCH 1	908 W	IT RACK
	FIREWALL 1	40 W	IT RACK
	NVR	184 W	IT RACK
2	(SPARE)		
	CONNECTED WATTAGE:	1182 W	

UPS-C : LOAD SUMMARY

SYSTEM: 120V, 1PH | LOCATION: WORKROOM 2
FEEDER: (2) 3#12 IN 1/2"C | CABINET MOUNTING: IT RACK
NOMINAL CAPACITY: 2200 VA
AVAILABLE CAPACITY: 1800 W

TERMINAL	DESCRIPTION	LOAD	LOCATION
1	ROUTER 2	25 W	TELEPHONE BOARD
	SWITCH 2	908 W	IT RACK
	FIREWALL 2	40 W	IT RACK
	LOUROE	6 W	IT RACK
	SIGN CONTROLLER	20 W	WORKROOM
2	FSC PC	230 W	FSC
	TELEPHONE	450 W	TELEPHONE BOARD
	CONNECTED WATTAGE:	1679 W	

UPS-D : LOAD SUMMARY

SYSTEM: 120V, 1PH | LOCATION: WORKROOM 2
FEEDER: (2) 3#12 IN 1/2"C | CABINET MOUNTING: IT RACK
NOMINAL CAPACITY: 2200 VA
AVAILABLE CAPACITY: 1800 W

TERMINAL	DESCRIPTION	LOAD	LOCATION
1	SWITCH 3	882 W	IT RACK
2	NEX GEN	360 W	FUEL SECTION
	BRCM BOX (GRIND)	*ALL PLUG INTO	FUEL SECTION
	GILBARCO D-BOX (12+MPD)	SINGLE QUAD	FUEL SECTION
3	(SPARE)		
4	PPD ALARM PANEL	180 W	WORKROOM
5	(SPARE)		
	CONNECTED WATTAGE:	1422 W	

UPS-VA : LOAD SUMMARY

SYSTEM: 208V 1PH | LOCATION: WORKROOM 2
FEEDER: (1) 3#12 IN 1/2"C | CABINET MOUNTING: IT RACK
NOMINAL CAPACITY: 3000 VA
AVAILABLE CAPACITY: 2700 W

TERMINAL	DESCRIPTION	LOAD	LOCATION
1	VA SERVER	920 W	IT RACK
	CONNECTED WATTAGE:	920 W	

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER
SIGNATURE DATE: 11/25/2024

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ORIGINAL ISSUE DATE: 11/25/2024

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:
E611

A1 | ELECTRICAL PANEL SCHEDULES

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/10/2025

A1,3,5	HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED. ALL CONDUCTOR SIZES OTHER THAN 3#12 IN 1/2" CONDUIT ARE INDICATED ON PLAN OR IN EQUIPMENT SCHEDULE. MINIMUM WIRE SIZE FOR LINE VOLTAGE CIRCUITS #12. MINIMUM UNDERGROUND CONDUIT SIZE 3/4".
	CONDUIT INSTALLED CONCEALED ABOVE CEILING OR IN WALL
	CONDUIT INSTALLED CONCEALED BELOW
	LIGHT FIXTURE (HATCH REPRESENTS EMERGENCY BATTERY BACKUP - CONNECT TO UNSWITCHED HOT LEG)
	EXIT LIGHT MOUNTED AT 7'-6" OR AS NOTED (CONNECT TO UNSWITCHED HOT LEG)
S	SINGLE POLE SWITCH, +3' -10" OR AS NOTED
S^K	KEYED SWITCH.
	PUSHBUTTON TYPE SWITCH
	20 AMP DUPLEX RECEPTACLE, +16" OR AS NOTED
$_{WP}$	WP (WEATHERPROOF) RECEPTACLES SHALL BE WEATHER RESISTANT AND GFCI WITH IN-USE COVERS AS FOLLOWING: • EXTRA DUTY ROOFTOP RECEPTACLES AND VERTICAL IN FRAMED CONSTRUCTION: HUBBELL #WP26E. • EXTRA DUTY ROOFTOP RECEPTACLES AND HORIZONTAL IN MASONRY WALLS: HUBBELL #WP26EH. • SURFACE VERTICAL AT FREEZER HEAT TRACE: HUBBELL #RW5T300.
	SPECIAL RECEPTACLE, TYPE AS NOTED
	20 AMP DOUBLE DUPLEX RECEPTACLE, +16" OR AS NOTED
	CEILING MOUNTED RECEPTACLE.
	FLOOR MOUNTED RECEPTACLE
J	JUNCTION BOX
RP	REMOTE POWER SUPPLY BOX
PB	PULL BOX
N	NETWAY
J	JUNCTION BOX FURNISHED WITH EQUIPMENT
S	SENSOR FOR EMERSON MANAGEMENT SYSTEM (EMS)
H	HUMIDITY SENSOR FOR HUMASTAT SYSTEM
S	IRRIGATION WEATHERMATIC SENSOR
W	WEATHER STATION
	DISCONNECT SWITCH, FURNISHED WITH EQUIPMENT
	DISCONNECT SWITCH
	MOTOR CONNECTION
	ELECTRICAL PANELBOARD, 6'-6". MAXIMUM BREAKER HEIGHT (WITH 30"X36" CLEAR IN FRONT OF PANEL INDICATED)
$_{GI}$	GROUND FAULT INTERRUPTING
	TELEPHONE/DATA OUTLET
	CEILING MOUNTED DATA OUTLET
+3'-10"	HEIGHT ABOVE FLOOR TO CENTER LINE OF OUTLET BOX
CO	CONDUIT ONLY
WP	WEATHER PROOF
PL	PILOT LIGHT
TR	TAMPER RESISTANT
EMS	ENERGY MANAGEMENT SYSTEM (REFER TO QT EMS INSTALL DRAWINGS.)
DS	DISCONNECT SWITCH
N.F.	NON FUSED

F13 ELECTRICAL SYMBOLS LEGEND

1. THIS INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE SECTIONS OF OTHER NFPA, OSHA, LIFE SAFETY CODES AND RECOMMENDATIONS, AND THE INTERIM AMENDMENTS IN EFFECT AT THE TIME OF THE PROPOSAL.
2. CONDUCTORS INSTALLED INDOORS, #10 AWG AND SMALLER, TO BE STRANDED COPPER, TYPE "THHN" (MINIMUM #12). CONDUCTORS #8 AND LARGER TO BE TYPE "THWN", STRANDED, COPPER.
3. LIGHT SWITCHES TO BE 20 AMP PER SPECIFICATIONS. RECEPTACLES TO BE 120 VOLT, 20 AMP PER SPECIFICATIONS. RE: SPECIFICATIONS AND EQUIPMENT SCHEDULES FOR MOUNTING HEIGHTS OF DEVICES.
4. RE: REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES AND ANY OTHER EQUIPMENT INSTALLED IN CEILING SYSTEM.
5. ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY ELECTRICAL POWER AS REQUIRED FOR CONSTRUCTION.
6. ELECTRICAL PANELS TO BE FURNISHED BY QUIKTRIP AS PART OF A UL LISTED INTEGRATED SWITCHBOARD PRE-WIRED ASSEMBLY. CONTRACTOR SHALL INSTALL AND DO ALL FIELD-WIRING AS REQUIRED BY PANEL MANUFACTURER INSTALLATION DOCUMENTATION. COORDINATE WITH QT REPRESENTATIVE.
7. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOAD AND TYPE OF CONNECTION AND MOUNTING HEIGHT FOR EACH BOX OR EQUIPMENT ITEM TO BE INSTALLED. ALL HARD-WIRED CONNECTIONS TO EQUIPMENT TO BE MADE WITH FLEXIBLE LIQUID-TIGHT METAL CONDUIT WITH GREEN GROUND CONDUCTOR INSTALLED INSIDE RACEWAY. BOTH ENDS OF GROUND CONDUCTOR TO BE BONDED.
8. ALL DISCONNECTS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. HVAC DISCONNECTS WILL BE PROVIDED WITH EQUIPMENT AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
9. BUILDING ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTACTORS (BUILDING AND GAS). RE: FUEL DRAWINGS.
10. ALL PIPING AND CONDUIT TRENCHES ENTERING THE BUILDING TO BE FILLED WITH CLAY OR FLOWABLE FILL.

A13 GENERAL NOTES

A1 NOT USED

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER PE-2007023868
PROFESSIONAL ENGINEER

SIGNATURE DATE: 11/25/2024

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