

PROPOSED SITE DOES NOT INCREASE THE IMPERVIOUS AREA, AND WILL NOT REQUIRE ADDITIONAL DRAINAGE.

GROSS PARKING AREA: 30,096 SQ FT
 REQ INTERIOR LANDSCAPE: 6,019 SQ FT
 PROPOSED INTERIOR LANDSCAPE: 6,019 SQ FT

BUILDING AREA: 3,444 SQ FT
 REQ PARKING SPACES: 1 PER 250 SQ FT = 14 SPACES
 PROPOSED PARKING: 23 SPACES
 PROPOSED BIKE RACKS: 14

PROPOSED SITE PLAN

NTS

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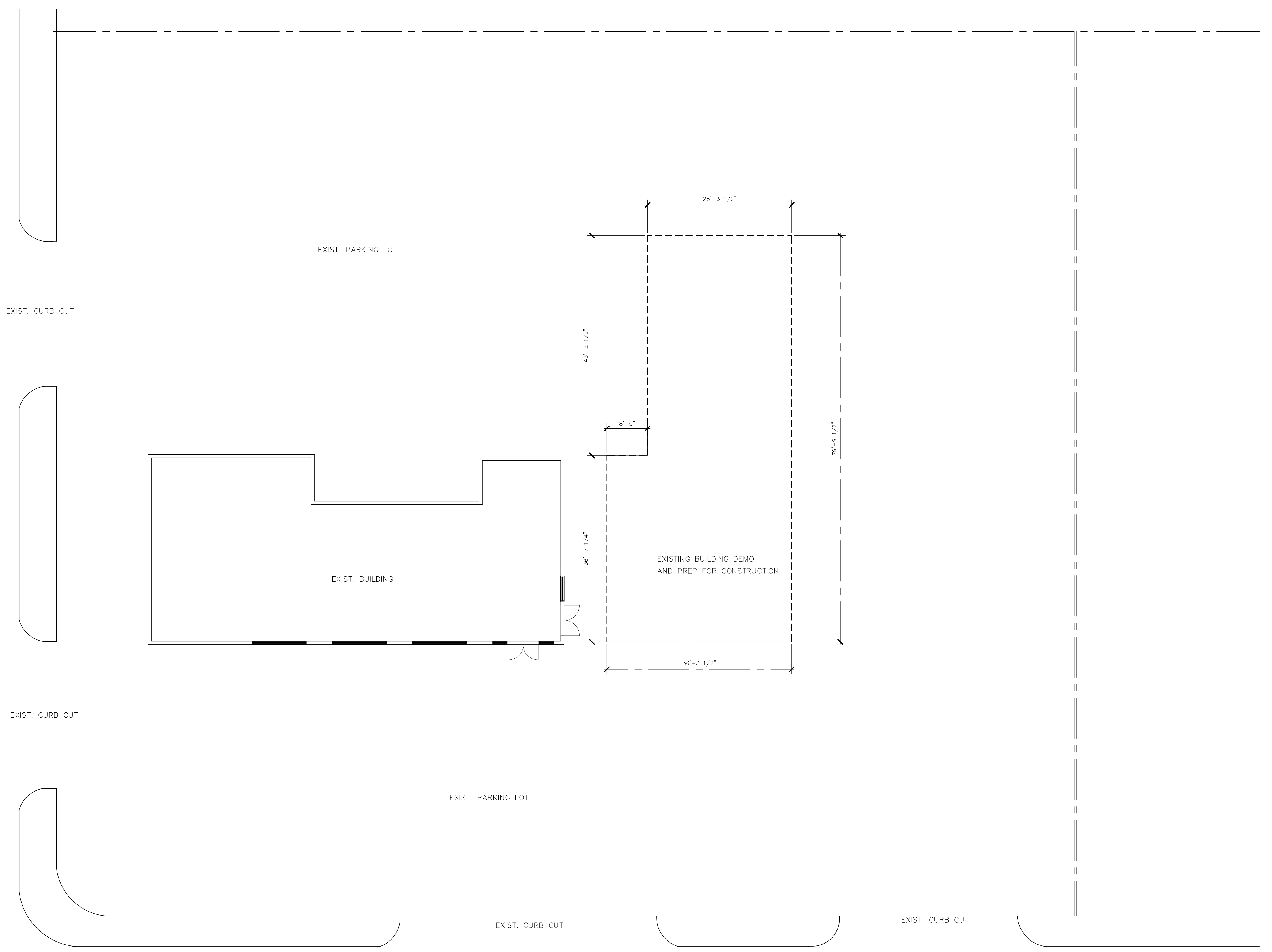
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 (901) 756-1878

BY: SPRINGFIELD C-STORE

1403 E. SUNSHINE ST.
 SPRINGFIELD, MO. 65804

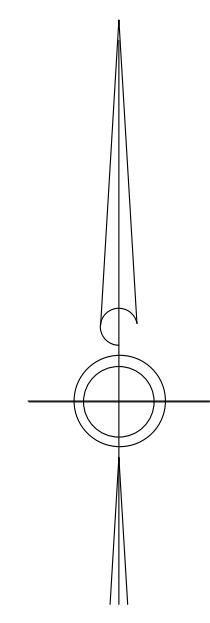
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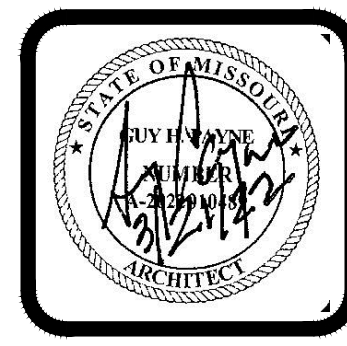


SITE DEMOLITION PLAN

3/32"=20'-0"



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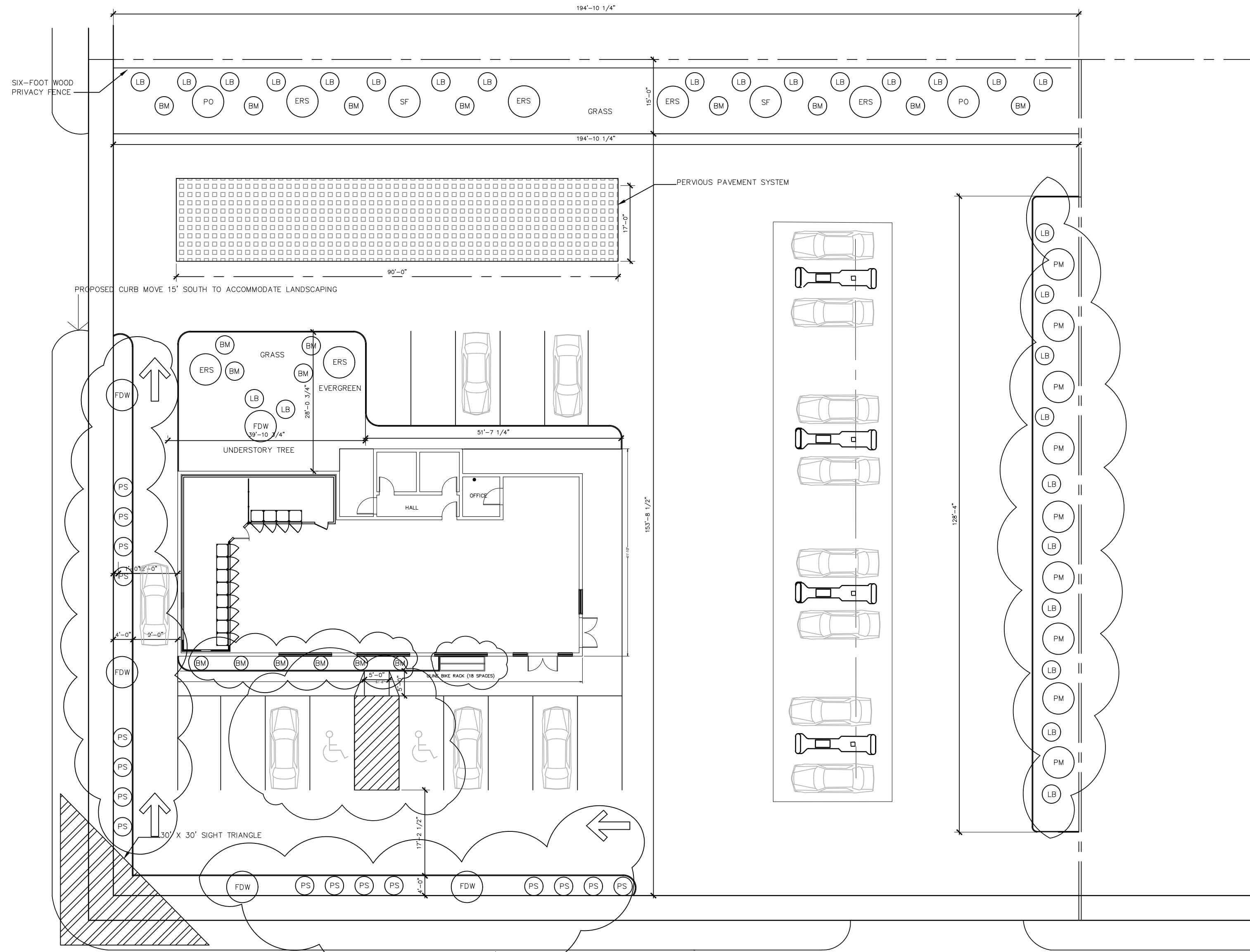
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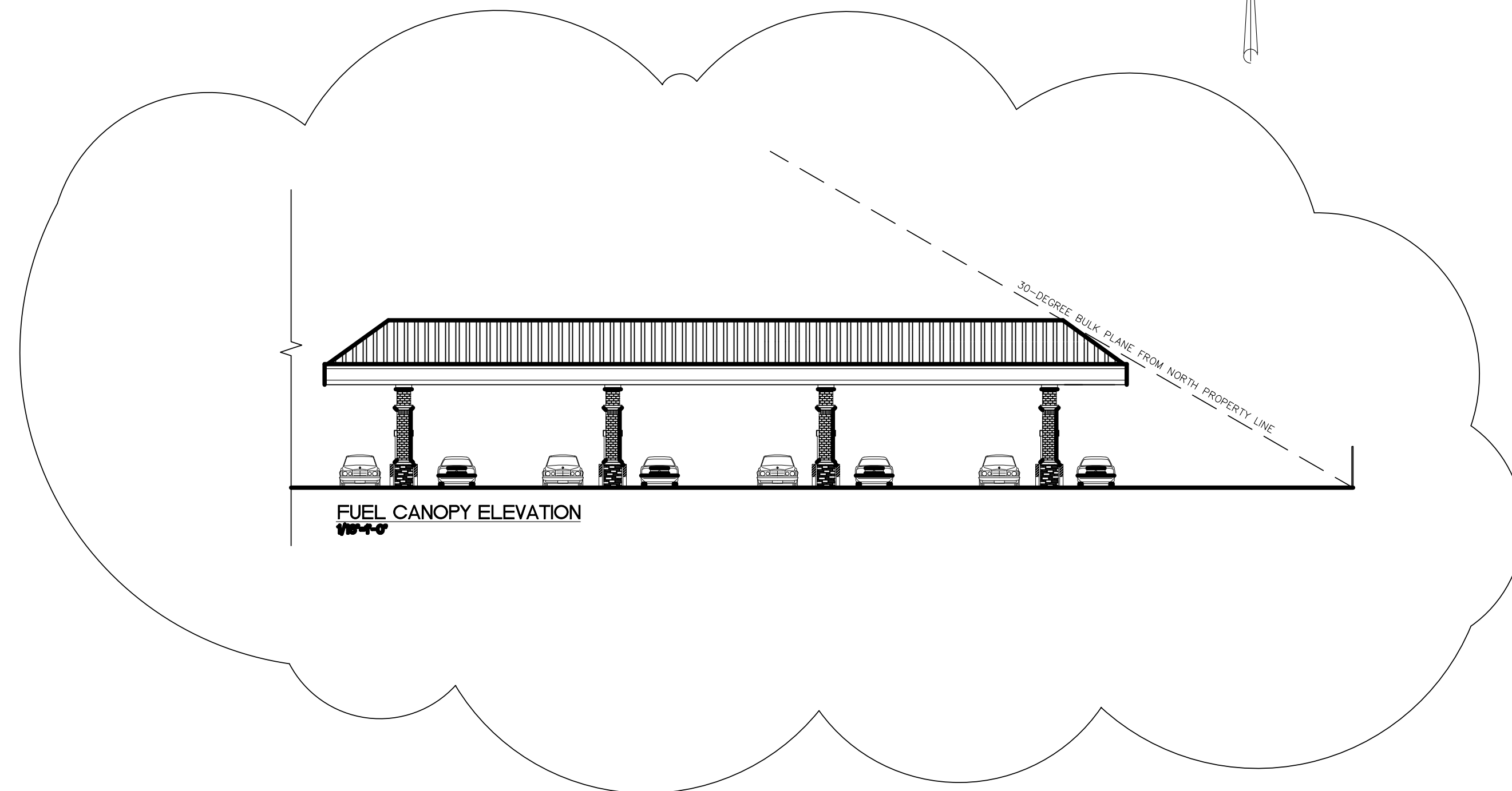
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PROJECT NUMBER: 8031428
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 DATE OF ORIGINAL ISSUE: 08/30/2023

FREMONT AVENUE



PROPOSED LANDSCAPE PLAN
1/16"=20'-0"



PLANT SCHEDULE					
SYM	QTY	COMMON NAME	BOTANICAL	SIZE	REMARKS
PO	2	GREEN PILLAR PIN OAK	QUERCUS PALUSTRIS PRINGREEN	3" GAL	
BM	12	BUTTERFLY MILKWEED	ASCLEPIAS TUBEROSA	12"-18" SPR	
FDW	5	FLOWERING DOGWOOD	CORNUS FLORIDA	10 GAL	
PM	9	PAPERBARK MAPLE	ACER GRISEUM	10 GAL	3' SPACING
PS	16	SWITCHGRASS	PANICUM VIRGATUM HEAVY METAL	3 GAL	
SF	2	SASSAFRAS	SASSAFRAS ALBIDUM	30 GAL	
ERS	6	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	10 GAL	
TS	0	TUSOCK SEDGE	CAREX STRICTA	18"-30" SPR	
LB	28	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	12" SPR	
HX	15	DAY LILY	HEMEROCALLIS HAPPY RETURNAL STELLABELLA	1 GAL	50% OF EACH

- NOTES:
- THIS PLANT SCHEDULE IS PROVIDED AS A CONVENIENCE TO THE LANDSCAPE CONTRACTOR AND IS NOT GUARANTEED CORRECT. IT IS LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES ILLUSTRATED ON THE PLAN AND VERIFY THOSE FIGURES AGAINST THE PLANT SCHEDULE.
 - UNDERSIZE HEIGHT (HT) OR SPREAD (SPR) PLANT MATERIALS WILL NOT BE ACCEPTED & THE LANDSCAPE CONTRACTOR SHALL REPLACE AT NO ADDITIONAL COST.
 - CONFIRM THAT THERE ARE FIVE (5) REGIONAL SOURCES WITH LARGE NUMBERS OF THE INDIVIDUAL PLANT SPECIES AND CULTIVARS SPECIFIED ABOVE AVAILABLE. IF THERE ARE ONLY (3) THERE MAY BE RISK IN OBTAINING THAT PLANT IN THE PROJECT IS FAR OUT ON THE SEASONAL CALENDAR. IF YOU CAN ONLY LOCATE ONE SOURCE THEN PLACE A DEPOSIT WITH THE VENDOR TO HOLD THE PLANT QUANTITY DESIRED UNTIL YOU NEED IT.

Double-Sided Grid Bike Rack - 18 Bike Capacity, Galvanized



Everybody's biking! Secures bikes, deters theft. For commuter stations, libraries, schools.

- Sturdy 14-gauge galvanized steel construction.
- Rust-resistant.
- Mounting hardware included.

More images

MODEL NO.	DESCRIPTION	SIZE L x W x H	BIKE CAP.	WT. (LBS.)	PRICE EACH		COLOR	IN STOCK SHIPS TODAY
					1	3+		
H-2541GALV	Double-Sided	110 x 36 x 31"	18	97	\$650	\$620	<input type="checkbox"/> Galvanized	<input type="text" value="1"/> <input type="button" value="ADD"/>

SHIPS UNASSEMBLED VIA MOTOR FREIGHT

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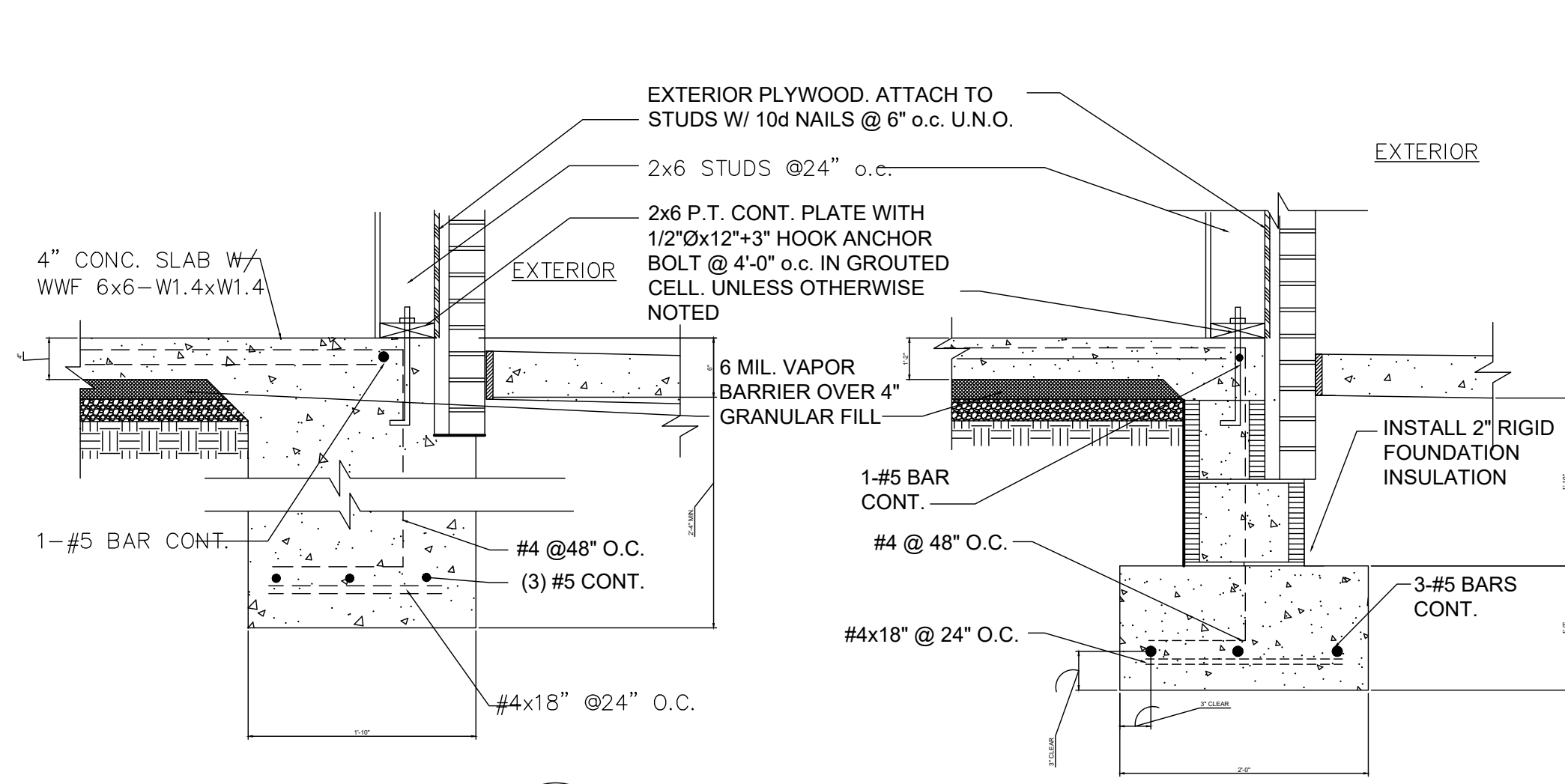


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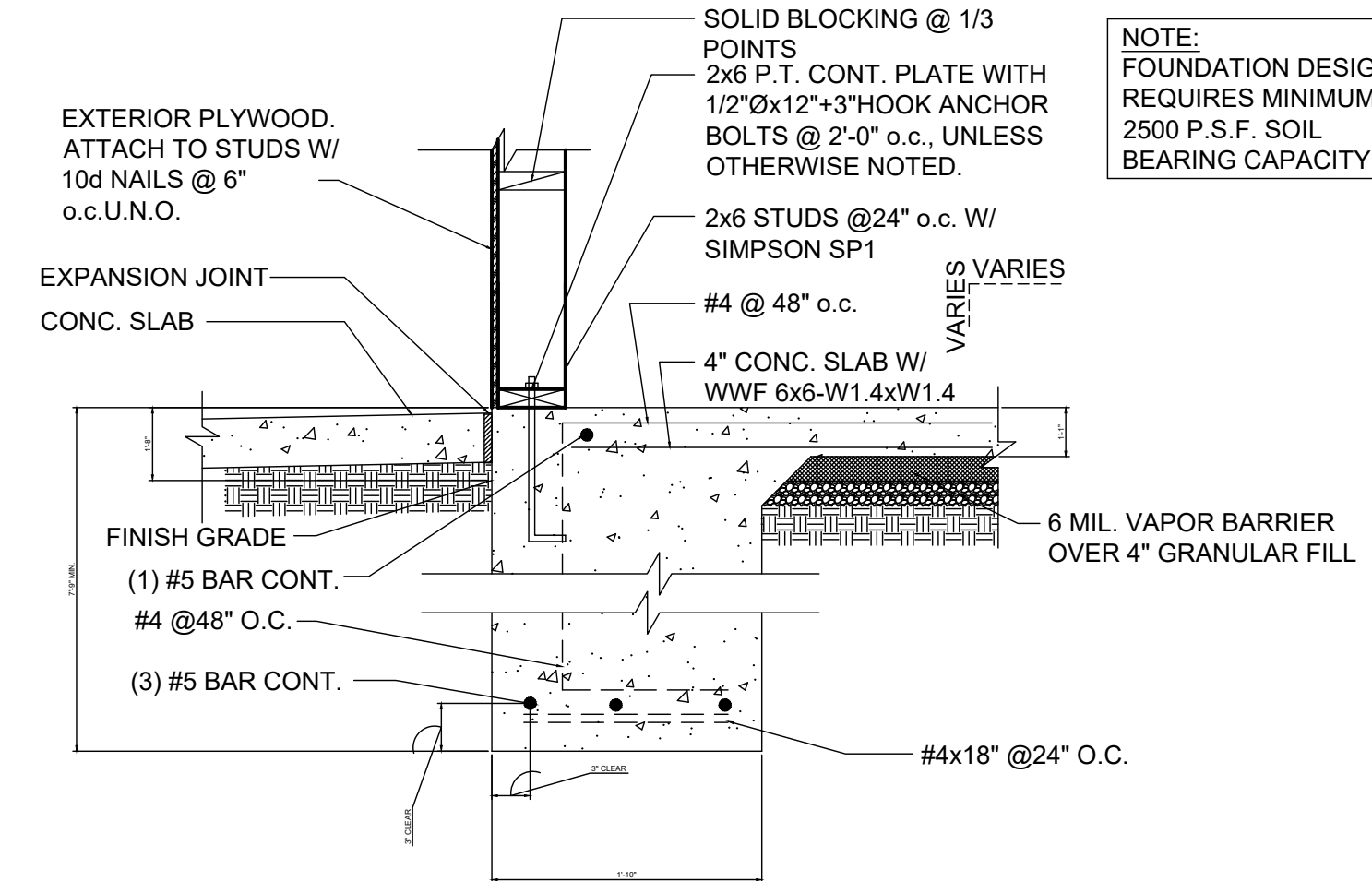
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SPRINGFIELD, MO. 65804

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1 FOOTING DETAIL
A.101 NTS



2 MONOLITHIC FOOTING DETAIL
A.101 NTS

NOTE:
FOUNDATION DESIGN
REQUIRES MINIMUM
2500 P.S.F. SOIL
BEARING CAPACITY

GENERAL STRUCTURAL NOTES:

- DESIGN LOAD CRITERIA
TOP CHORD (ROOF)
DEAD LOAD ----- 20 psf
LIVE LOAD ----- 20 psf
ADD. EQUIP. LOAD AS SHOWN
- BOTTOM CHORD (CLG)
DEAD LOAD ----- 10 psf
- TOTAL DESIGN LOAD = 50 psf
- EXTERIOR WALL WIND DESIGN --- 100 mph (ASCE 7-98)
- SEISMIC LOAD CRITERIA -----
- SEISMIC USE GROUP = 1
SDS = 0.31 - SDI = 0.19
SITE CLASS = D
BASIC SEISMIC-FORCE RESISTING SYSTEM = BEARING WALL SYSTEM WITH LIGHT FRAMED SHEAR WALLS
DESIGN BASE SHEAR = 0.04W
ANALYSIS PROCEDURE = EQUIVALENT LATERAL-FORCE
SEISMIC DESIGN CATEGORY = C
- EXTERIOR WALL WIND DESIGN --- 120 mph (ASCE 7-98)

IBC 2018 - 1606.1.7	
BASIC WIND SPEED	100 MPH
WIND IMPORTANCE FACTOR	1.0
BUILDING CATEGORY	II
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	±0.55
COMPONENTS & CLADDING DESIGN WIND PRESSURE *	21.93 PSF

* VALUE HAS NOT BEEN MULTIPLIED BY GCp VALUE.

- STEEL
A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A36, EXCEPT TUBE COLUMN WHICH SHALL CONFORM TO ASTM A500, GRADE B.
B. ALL BOLT FASTENERS SHALL BE GALVANIZED MACHINE BOLTS EXCEPT FOR ANCHOR BOLTS WHICH SHALL CONFORM TO ASTM A307.

- WOOD FRAMING
A. ALL JOISTS, RAFTERS, BEAMS AND HEADERS 2" TO 4" THICK SHALL BE KD-15 SOUTHERN PINE NO. 2 OR BETTER.
B. STUDS AND PLATES SHALL BE KD-15 SOUTHERN PINE IN STUD GRADE OR BETTER.
C. ALL STRUCTURAL PLYWOOD SHALL BE EXTERIOR GRADE C OR BETTER WITH A MINIMUM SPAN RATING OF 32/16.

- TRUSS FRAMING
LUMBER SPECIFICATIONS
D. TOP AND BOTTOM CHORDS TO BE #2 MC KD SELECT DENSE STRUCTURAL GRADE SOUTHERN PINE.
E. WEB MEMBERS TO BE #3 MC KD SELECT DENSE STRUCTURAL GRADE SOUTHERN PINE.
F. PROVIDE 2x4 CROSS BRACING OR BRIDGING AT ALL 1/3 POINTS OF THE TRUSS SPAN FOR BOTH TOP AND BOTTOM CHORDS.
G. STEEL TRUSS GUSSET PLATE SHALL BE EITHER NAILED OR PRESS-IN TYPE COMPLYING w/ STANDARDS OF THE TRUSS PLATE INSTITUTE.
H. THE ROOF TRUSS STRUCTURAL DESIGN IS CALCULATED BASED ON THE DESIGN LOADS SHOWN. THE CONTRACTOR SHALL SUBMIT TRUSS SHOP DRAWINGS, INCLUDING STRUCTURAL CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE THE SITE IS LOCATED, TO THE ARCHITECT FOR REVIEW. SEALED DRAWINGS AND CALCULATIONS SHALL BE AVAILABLE ON JOB SITE.

- FOUNDATIONS:
A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL BE RETAINED TO ASSESS BEARING CAPACITY OF EXISTING SOILS AND TO PROVIDE RECOMMENDATIONS FOR FOUNDATION CONSTRUCTION.

- DIMENSIONS
ALL DIMENSIONS ARE TO EXTERIOR FACE OF PLYWOOD UNLESS NOTED OTHERWISE.
ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL. NOTIFY DESIGNER AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.

- SHEATHING:
1. PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING CONTINUOUS OVER EXTERIOR WALLS OF BUILDING.
2. ROOF SHEATHING TO BE 5/8" CDX PLYWOOD.

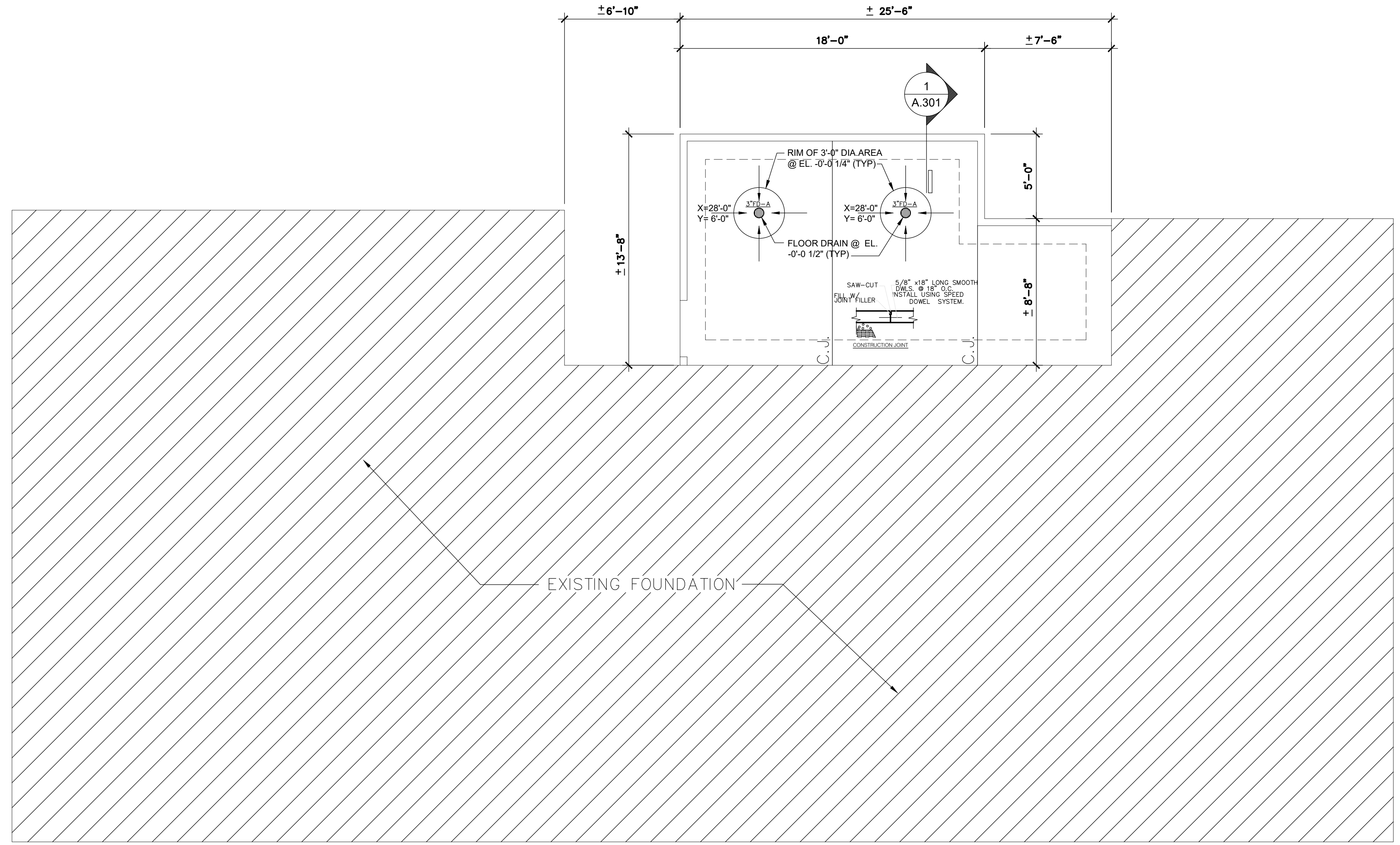
- NAILING PATTERN:
A. PLYWOOD TO COMMON STUD WALL: NAIL WITH 10d NAILS 6" O.C. AT ALL JOINTS, AND 12" O.C. AT ALL INTERMEDIATE STUDS.
B. PLYWOOD TO ROOF TRUSS (ROOF DECKING): SEE SHT. S-4 FOR ROOF NAIL PATTERN.

GENERAL NOTES:

- TYPICAL SLAB CONSTRUCTION TO BE 4" 3000 PSI CONCRETE WITH 6x6 WWF PLACE OVER 6 MIL VAPOR BARRIER, AND COMPACTED TERMITES-TREATED FILL AS REQUIRED.
- FOUNDATION IS DESIGNED FOR ALLOWABLE SOIL PRESSURE OF 2500 P.S.F. G.C. TO VERIFY SOIL BEARING CAPACITY IS IN ACCORDANCE WITH FOUNDATION DESIGN. STRUCTURAL ENGINEER OF RECORD SHALL REVISE FOOTING SIZE IF A LOWER BEARING CAPACITY IS RECOMMENDED BY THE GEOTECHNICAL REPORT.
- PLUMBING ITEMS ARE SHOWN FOR GENERAL INFORMATION ONLY. CONTRACTOR TO COORDINATE EXACT LOCATION OF ITEMS WITH PLUMBING SHEETS AND EQUIPMENT ROUGH-IN DIAGRAMS. - VERIFY WITH EQUIP. SUPPLIER.
- COORDINATE EXACT LOCATION & TYPE OF ALL REQUIRED DRAINS W/ PLUMBING PLANS
- FINISH FLOOR TO BE SLOPED TO FLOOR DRAINS AT KITCHEN/RESTROOM AREA. G.C. TO VERIFY EXACT TOP ELEVATION OF ALL PLUMBING FIXTURES PRIOR TO CONSTRUCTION
- IT IS THE CONTRACTOR'S OPTION TO USE EITHER THE MONOLITHIC SLAB METHOD OR THE WALL FOOTING METHOD
- PROVIDE SAWN CONTROL JOINTS 1/4 OF SLAB THICKNESS @ 17'-0" O.C. MAX. EACH DIRECTION.
- GC TO CONFIRM WITH THE BUILDING OFFICIAL THAT OVER HEAD POWER (IF BEING USED) DOES NOT ENCRoACH THE EASEMENT OF THE POWER LINE AT THE REAR OF THE BUILDING.
- SEE SITE PLAN FOR GRADE CHANGES AND REQUIRED FOOTING STEPS.

NOTE:

- G.C. TO VERIFY LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO CONSTRUCTION
- G.C. TO PROVIDE DOUBLE 2x4 BLOCKING FOR P.O.S MONITOR BRACKETS. G.C. TO SECURE TO TRUSSES PER P.O.S VENDOR DIRECTION.
- THE STRUCTURE HAS BEEN DESIGNED IN COMPLIANCE WITH SECTION 1609, CHAPTER 16 OF THE 2018 IBC. (ASCE 7-98 FOR 100 MPH WIND)
- WE WILL PROV SOIL BEARING CAPACITY ON SITE, TO A MIN. OG 1,500 PSF



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

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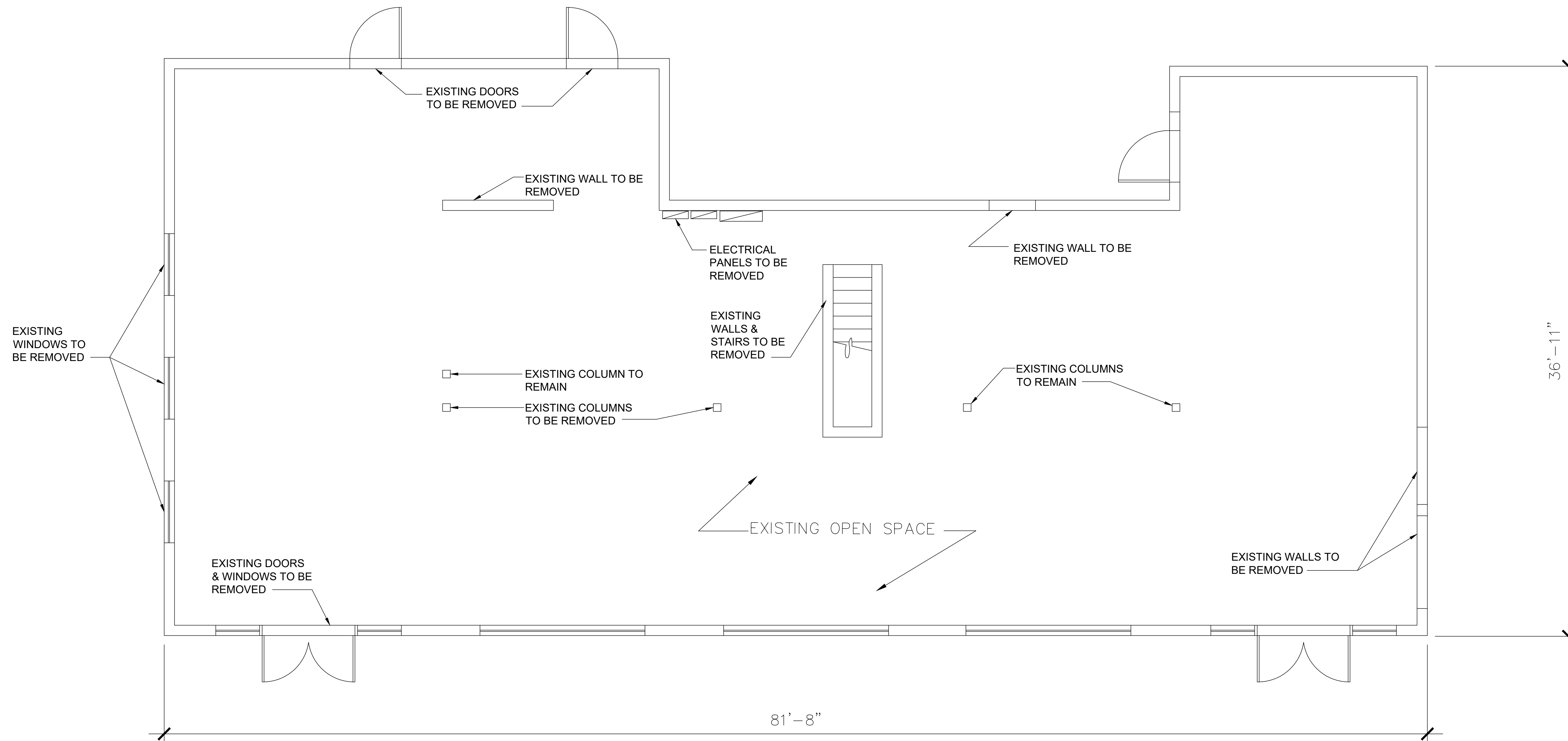


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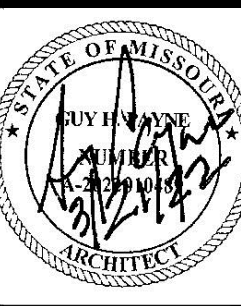
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FLOOR PLAN (EXISTING/DEMOLITION)
 1/4"=1'-0"

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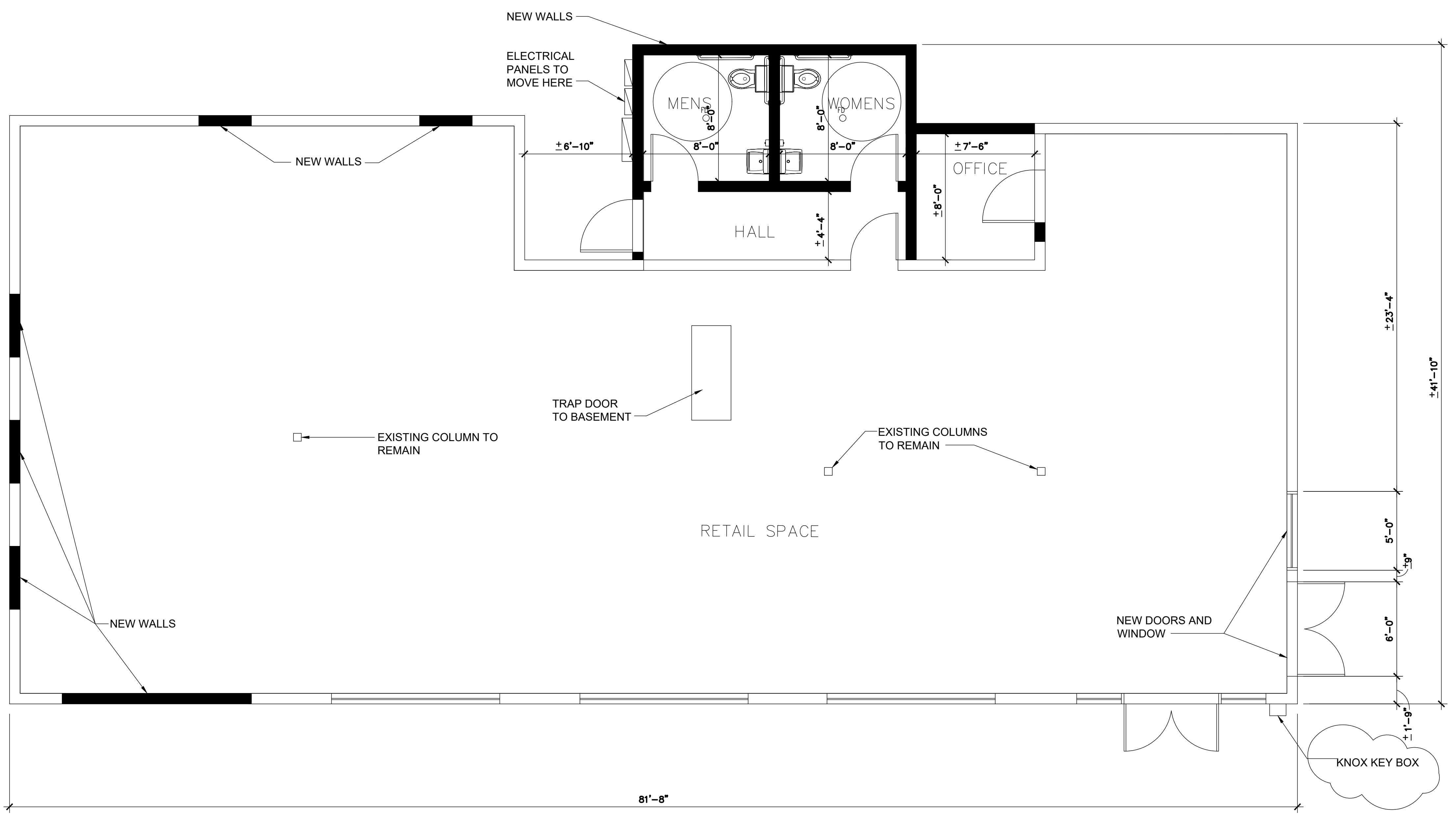
CONSTRUCTION KEY NOTES

- DIMENSIONS ARE SHOWN:
 1) EXTERIOR WALLS: FROM INTERIOR FACE OF GYPSUM BOARD TO THE EXTERIOR FACE OF PLYWOOD.
 2) INTERIOR WALLS: FROM THE FACE OF FINISH WALL TO THE FACE OF FINISH WALL, U.N.O..
- INSTALL 3'-0" W X 8'-0" H X 18 GA STAINLESS STEEL PANEL BEHIND OVENS AND FRYERS. S/S SHALL EXTEND 18" BESIDE EQUIPMENT. REFER TO INTERIOR KITCHEN ELEVATIONS AND EQUIPMENT PLAN FOR LOCATIONS.
- ALL GYPSUM WALL BOARD BELOW FINISHED CEILING HEIGHT IS TO BE PREPARED FOR PAINTING OR WALLCOVERING AS INDICATED ON INTERIOR ELEVATIONS AND FINISH SCHEDULE. SEE GEN. CONSTR. NOTES FOR DINING AREA
- GENERAL CONTRACTOR (G.C.) TO PROVIDE 2"x2" FULL HEIGHT CORNER GUARDS ON ALL OUTSIDE CORNERS @ KITCHEN WALLS.
- HOOD WALL TO BE CONSTRUCTED WITH 3/8" 16 GAUGE (GA.) METAL STUDS @ 24" O.C. AND 1/2" DURAROCK ON HOOD WALL SIDE.
- ALL DOORS SHALL BE ABLE TO BE OPENED FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY. SPECIAL KNOWLEDGE OR EFFORT, AND COMPLY WITH ALL CODES. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
- ALL GLAZING WITHIN A 24" ARC OF DOORS WHOSE BOTTOM IS LESS THAN 60" ABOVE THE FLOOR AND ALL GLAZING IN DOORS SHALL BE SAFETY TEMPERED.
- PROVIDE 1/2" MOISTURE RESISTANT GYPSUM WALL BOARD ON ALL INTERIOR KITCHEN WALL SURFACES FROM FINISHED FLOOR TO 24" ABOVE FINISHED FLOOR, UNO. PROVIDE 1/2" PLYWOOD FROM 24" AFF TO BEYOND CEILING ON ALL KITCHEN WALLS.
- INSTALL THE HALF WALL FOR THE FRONT COUNTER AFTER THE KITCHEN EQUIPMENT HAS BEEN BROUGHT IN. PROVIDE 1/2" GYPSUM WALL BOARD ON THE SIDE FACING THE DINING. PROVIDE 1/2" PLYWOOD WITH FRP ON THE SIDE FACING THE KITCHEN.

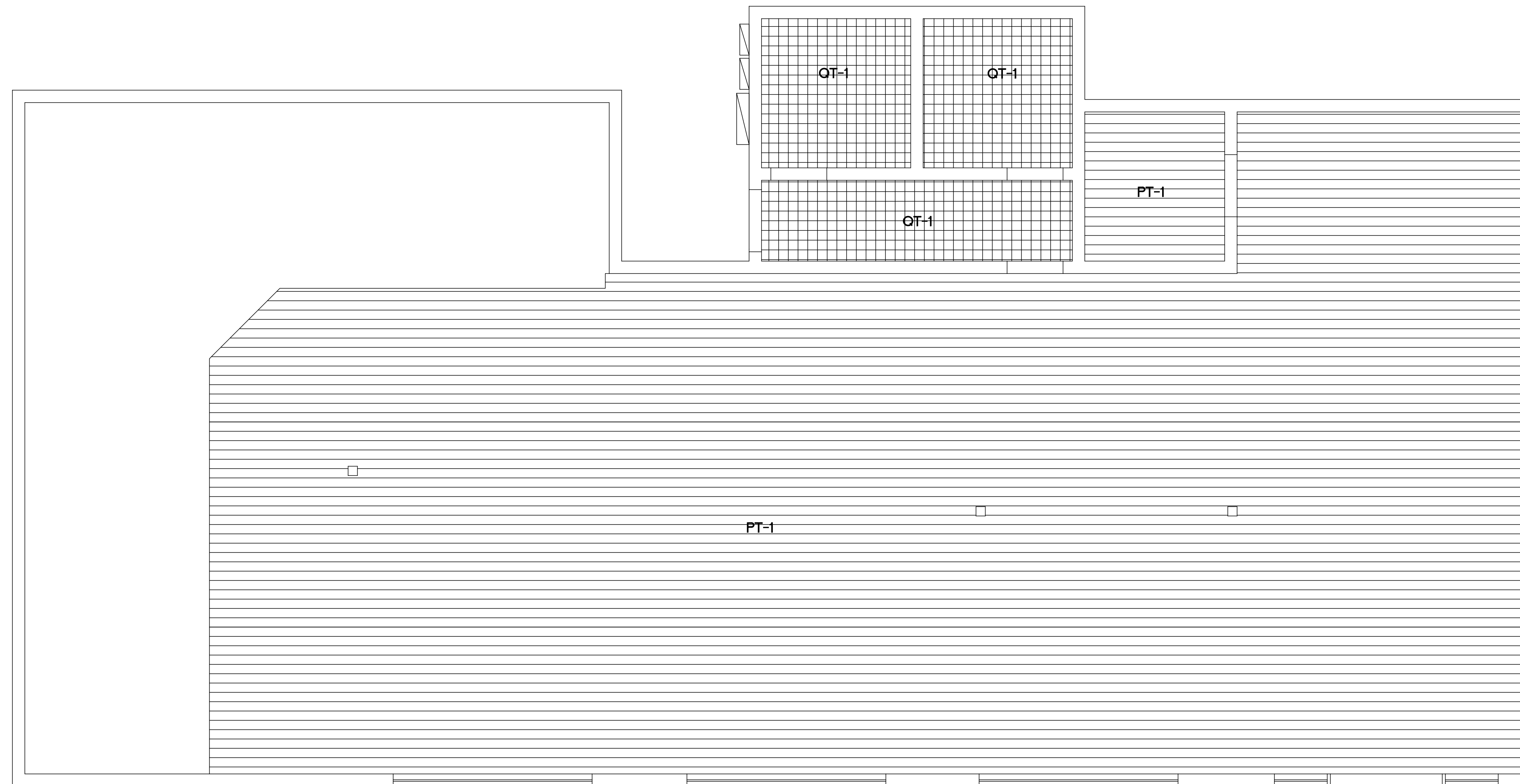
GENERAL CONSTRUCTION NOTES

- GYPSUM BOARD / EXTERIOR SHEATHING NOTES:
- EXTERIOR SHEATHING SHALL BE 1/2" EXTERIOR PLYWOOD NAILED IN ACCORDANCE WITH THE STRUCTURAL NAILING SCHEDULE.
 - 1/2" PLYWOOD TO BE INSTALLED ON ALL INTERIOR WALLS. ALL JOINTS ARE TO BE PROPERLY SECURED.
 - GYPSUM BOARD SHALL BE TYPE "MOISTURE RESISTANT" IN ALL AREAS TO RECEIVE WALL TILE OR FRP PANELS.
 - ALL WALLS TO RECEIVE 1/2" MOISTURE RESISTANT GYPSUM WALL BOARD INSTALLED TO 24" AFF UNO.
- INSULATION NOTES:
- ALL EXTERIOR WALLS TO RECEIVE FIBERGLASS BATT INSULATION TO MATCH DEPTH OF WALL CAVITY.
- KITCHEN WALL NOTES:
- PROVIDE 1/2" PLYWOOD FROM 24" AFF TO 9'-6" AFF IN ALL KITCHEN WALLS.
 - PROVIDE 1/2" GYPSUM WALL BOARD FROM 24" AFF TO 5'-6" AFF AT INTERIOR TOILET ROOM WALLS.
- BLOCKING NOTES:
- "xxxxxxx" INDICATES BLOCKING REQUIRED IN WALL FOR PLUMBING LINES AND RESTROOM ACCESSORIES. BLOCKING SHALL BE FIRE RETARDANT WHERE REQUIRED BY CODE.
 - CONTRACTOR TO VERIFY REQUIREMENTS WITH LOCAL BUILDING OFFICIALS PRIOR TO BIDDING. CONTRACTOR IS RESPONSIBLE FOR OBTAINING MANUFACTURERS' CUT SHEETS AND LOCATING BLOCKING AS REQUIRED. THIS INCLUDES KITCHEN EQUIPMENT AND ITEMS FURNISHED AND INSTALLED BY OTHERS.
- FRAMING NOTES:
- CONTRACTOR MAY SUBSTITUTE METAL STUDS FOR INTERIOR WALL, AND SOFFIT FRAMING IF REQUIRED. WHERE USED, METAL FRAMING TO BE 25 GA. UNLESS OTHERWISE SPECIFIED(U.N.O.).
 - REFER TO FRAMING NOTES FOR WALL SECTIONS.
 - ALL INTERIOR WOOD FRAMING TO BE #2 SPRUCE, FIR OR WHITE PINE. WHERE REQUIRED BY CODE, FRAMING SHALL BE #2 FIRE RETARDANT YELLOW PINE. CONTRACTOR TO VERIFY REQUIREMENTS WITH LOCAL BUILDING OFFICIALS PRIOR TO BIDDING.
 - ALL WOOD IN CONTACT WITH THE SLAB MUST BE PRESSURE TREATED.
 - ALL INTERIOR WALLS TO BE FRAMED TO UNDERSIDE OF TRUSS U.N.O..

- GENERAL NOTES:
- MOVEABLE APPLIANCES SHALL BE PROVIDED A MEANS FOR CORRECT ALIGNMENT WITH THE DISCHARGE NOZZLES. (2017 NFPA 17A 5.6.4)
 - EXTINGUISHER OF 1.5 GALLONS IS REQUIRED FOR UP TO 30 FT. OF TRAVEL DISTANCE FROM COOKING EQUIPMENT. (2008 IFC 906)
 - INSTALL A KNOX KEY BOX FOR THE BUILDING IN THE IMMEDIATE VICINITY OF THE MAIN ENTRANCE AT 5' ABOVE FINISHED FLOOR. SEE FLOOR PLAN.



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



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

STOREFRONT NOTES

1. STOREFRONT: AL. FRAME AS MANUFACTURED BY VSTAWALL, SERIES PER GLAZING REQMTS., 2" X 4 1/2", FRONT LOADED SYSTEM, w/ CLEAR ANODIZED ALUMINUM FINISH, ALTERNATE AND EQUIVALENT STOREFRONT FRAME AS MANUFACTURED BY U.S. ALUMINUM OR OTHER AS APPROVED.
ALL GLAZING SHALL BE MULLIONLESS BUTT JOINTED UNLESS OTHERWISE SHOWN.
2. STOREFRONT GLAZING SHALL BE 1" CLEAR TEMPERED GLASS. (TYP.) w/ MULLIONLESS BUTT JOINTS PER EXTERIOR ELEVATIONS U.O.N.
3. GLAZING AT ENTRY DOOR SYSTEM SURROUND (BETWEEN PILASTERS) SHALL BE 1" CLEAR INSULATED IN 4-1/2" CLEAR ANODIZED ALUMINUM FRONT LOADED FRAME TO MATCH STOREFRONT. SIDE LIGHTS & SPANDREL TRANSOMS TO BE TEMPERED.
4. ALL 1" INSULATED SPANDREL GLASS TO BE TEMPERED.
5. VERIFY ALL ROUGH OPENING SIZES IN FIELD PRIOR TO FABRICATION
6. GLAZING AND STOREFRONTS SHALL CONFORM TO LOCAL WIND LOAD REQUIREMENTS.

ROOM FINISH SCHEDULE

INTERIOR FINISHES	MERCHANDISING AREA/CASHIER	PUBLIC RESTROOMS	UTILITY	BEER CAVE	WALK-IN COOLER	OFFICE	QSR KITCHEN	QSR STORAGE
FLOOR	PT-1 DAL TILE 6x24 WB02 PT-2 DAL TILE 7x20 EM03	PT-2 DAL TILE 7x20 EM03	AMERICAN OLEAN QUARRY TILE-QT-1 SURE STEP-Q12 RED 6"x6"	EXCELRON 12"x12" VINYL TILE "IMPERIAL", #51989 COOL WHITE	CONCRETE W/CLEAR SEALER	AMERICAN OLEAN SURE STEP-Q12 RED 6"x6"	AMERICAN OLEAN SURE STEP-Q12 RED 6"x6"	
BASE	PT-2 DAL TILE 7x20 EM03	PT-2 DAL TILE 7x20 EM03	AMERICAN OLEAN SURE STEP-Q12 RED 6"x6"	4" VINYL COVE, LIGHT GRAY	BY COOLER MFR. CERAMIC TILE COVE BASE	AMERICAN OLEAN SURE STEP-Q12 RED 6"x6"	AMERICAN OLEAN SURE STEP-Q12 RED 6"x6"	
WALLS	CERAMIC TILE OVER 1/2" DUROCK OR EQUIVALENT TILE BACKER BOARD	CERAMIC TILE OVER 1/2" DUROCK OR EQUIVALENT TILE BACKER BOARD	PAINTED SMOOTH FINISH 5/8" GYPBOARD, MOPSINK w/ M.R. GYPBOARD & F.R.P. FULL HEIGHT.		BY COOLER MFR	PAINTED SMOOTH FINISH 5/8" GYP BOARD	MARLITE FRP PANELS COLOR: P151 LIGHT GRAY, WITH MATCHING PVC MOLDINGS	
CEILING	2'x4' SUSP. A.C.T.	GYP. BD. - PAINTED	2'x4' SUSP. A.C.T.	2'x4' SUSP. A.C.T.	BY COOLER MFR	2'x2' SUSP. A.C.T.	CEILING: ARMSTRONG "TUNDRA" 2002, VINYL FACED, NON-PERFORATED FOL-BACKED, 24" X 48" X 1" SUSPENSION SYSTEM ARMSTRONG "PRELUDE", 15/16" ALT. US GYPBDM DX 15/16"	
CEILING HEIGHT	12'-0"	8'-0"	8'-4"	8'-0"	BY COOLER MANUFACTURER	10'-0"	8'-4"	8'-0"

FLOOR PLAN NOTES

1. ALL CABINETS SHOWN ARE OF METAL CONSTRUCTION, N.S.F. APPROVED, W/ REMOVABLE ACCESS TO FLOOR SINKS MOUNTED ON 6" HIGH METAL LEGS. ALL CABINETS BY OTHERS U.O.N.
2. 3 1/2" ACOUSTIC BATT INSULATION REQUIRED IN ALL RESTROOM WALLS AND CEILING.
3. EXTERIOR WALL DIMENSIONS ARE TO FACE OF STUD. INTERIOR PARTITION DIMENSIONS ARE TO FACE OF STUD U.O.N. FLOOR SINK DIMENSIONS ARE FROM FACE OF SLAB U.O.N.
4. ALL SEALANT TO BE PAINTABLE.
5. ALIGN CONC. JOINTS W/ TILE LAYOUT. FOR TILE LAYOUT AND SPECIFICATIONS, SEE SHEET A07.
6. FOR WALK-IN COOLER SPECIFICATIONS, SEE COOLER MFR
7. ALL DOORS, DOOR FRAMES AND HARDWARE ARE AVAILABLE FROM UNIVERSAL MANUFACTURING CO.
8. ALL WOOD FRAMING MEMBERS IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED DOUGLAS FIR U.O.N. TYP.

WALL TYPES LEGEND

- 3-5/8" MTL. STUDS W/
5/8" GYP. BD. EA. SIDE
- 8" CONCRETE BLOCK
- 3 1/2" INSULATED
COOLER WALL

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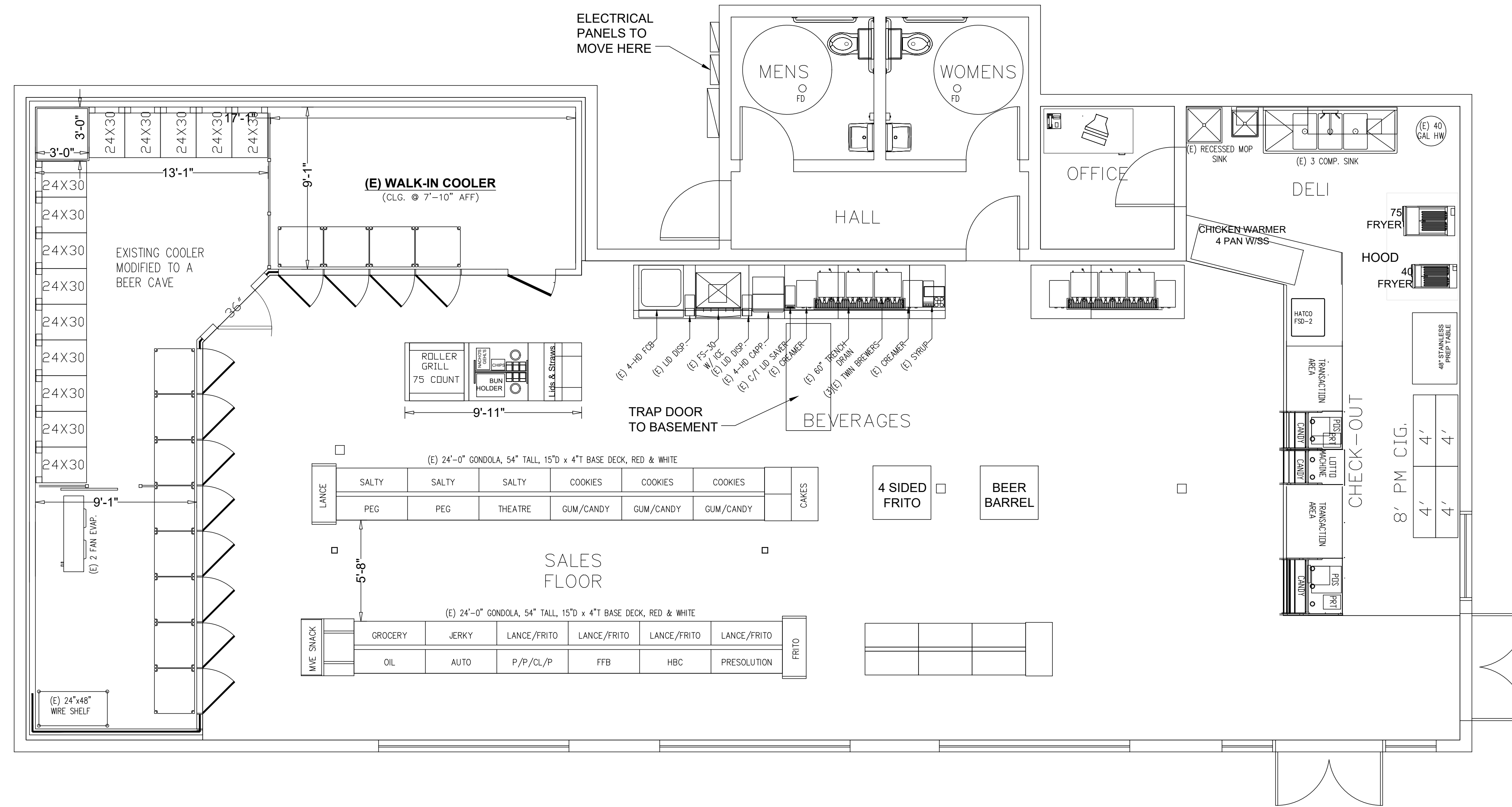


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1403 E. SUNSHINE ST.
SPRINGFIELD, MO. 65804

NO.	DATE	REVISION	BY

PROJECT NUMBER
R031428
SCALE
AS SHOWN
SHEET NUMBER
A.3.1
OF
DATE OF ORIGINAL ISSUE
08/25/2023



PROPOSED EQUIPMENT PLAN

1/4"=1'-0"

EQUIPMENT SHEDULE

NO	QTY	EQUIPMENT ITEM DESCRIPTION	ELECTRICAL			PLUMBING			GAS		REMARKS
			V	PH	AMP	KVA	HP	SUPPLY COLD/HOT	WASTE SIZE	SIZE	
1	1	Self Service Island Merchandiser	208	1	20						
2	1	8' Refrigerated Deli Case	208	1	20						Hausman 8' Refrigerated Deli Case
3	1	70" Heated Merchandise Display	230	3	20.4						70" Heated Merchandise Display
4	1	24 Valve Fountain W/Ice Maker	208	1	20		1/2"	3/4"			
5	1	8' Prep Table									
6	1	Gas Fryer 70 lb.							3/4"	90	
7	1	Convection Oven							3/4"	54	
8	1	Microwave	120	1	16.0						
9	1	3 Compartment Sink W/2 Drain Boards					1/2"	1/2"	2"		
10	1	Mop Sink					1/2"	1/2"	3"		
11	1	Refrigerated Sandwich Prep Table	120	1	4.9				2"		
12	1	Work Table									
13	2	FCB Machine									
14	1	Wall Seating									
15	1	Exhaust Hood									
16	1	Equipment Stand									
17	2	Prep Table W/Back Splash									
18	1	Bag-N-Box Racks	120	1	7.5		1/2"				Carbonator w/cord and NEMA 5-15p Plug
19	1	Hand Sink					1/2"	1/2"	2"		
20		Not Used									
21	1	Gondola Shelving									
22	1	Back Room Shelving									
23		Not Used									
24	1	2 Door Freezer	208	3	12.8						True

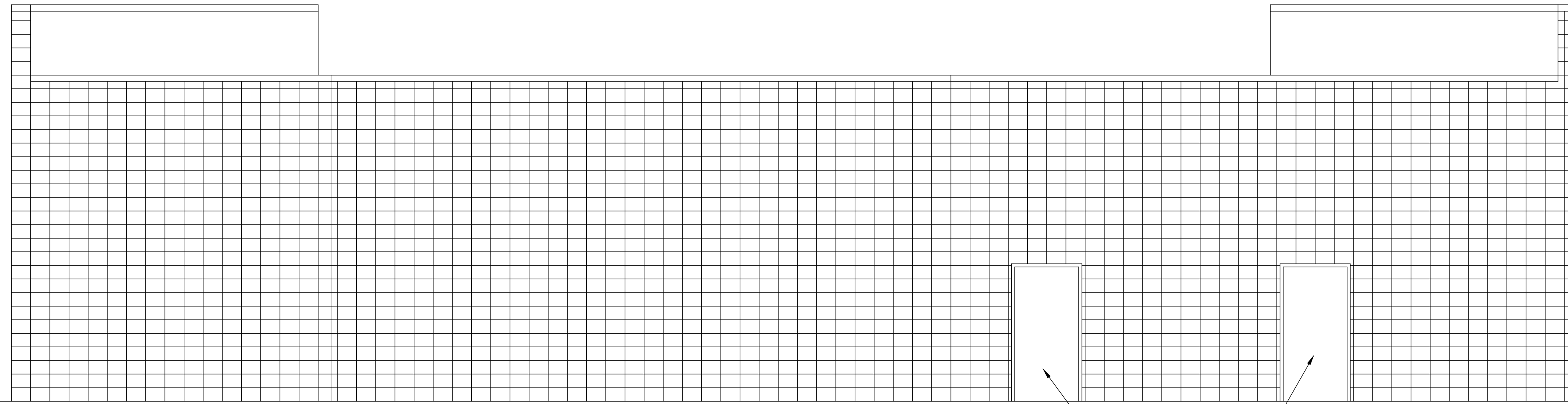
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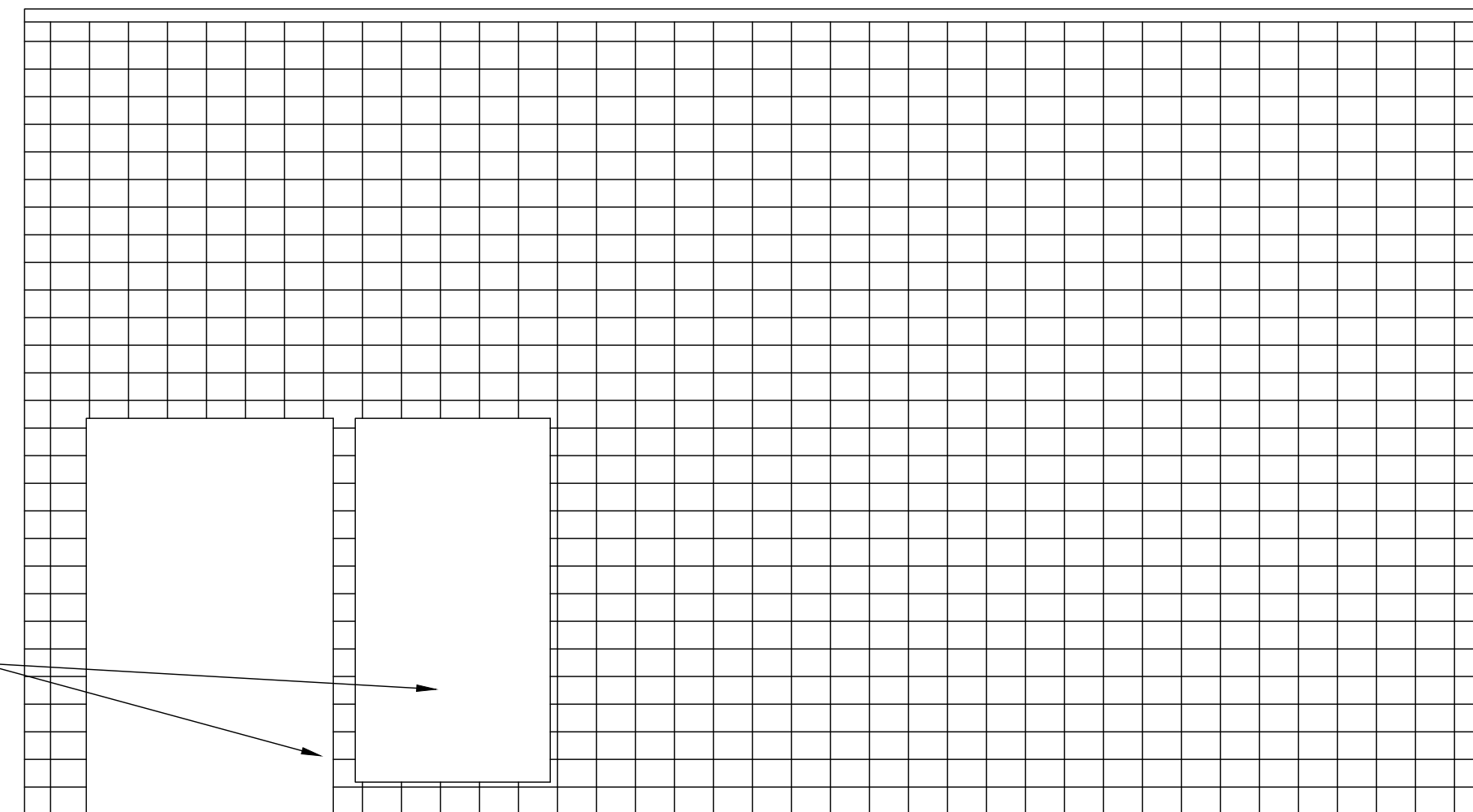
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NO.	DATE	REVISION



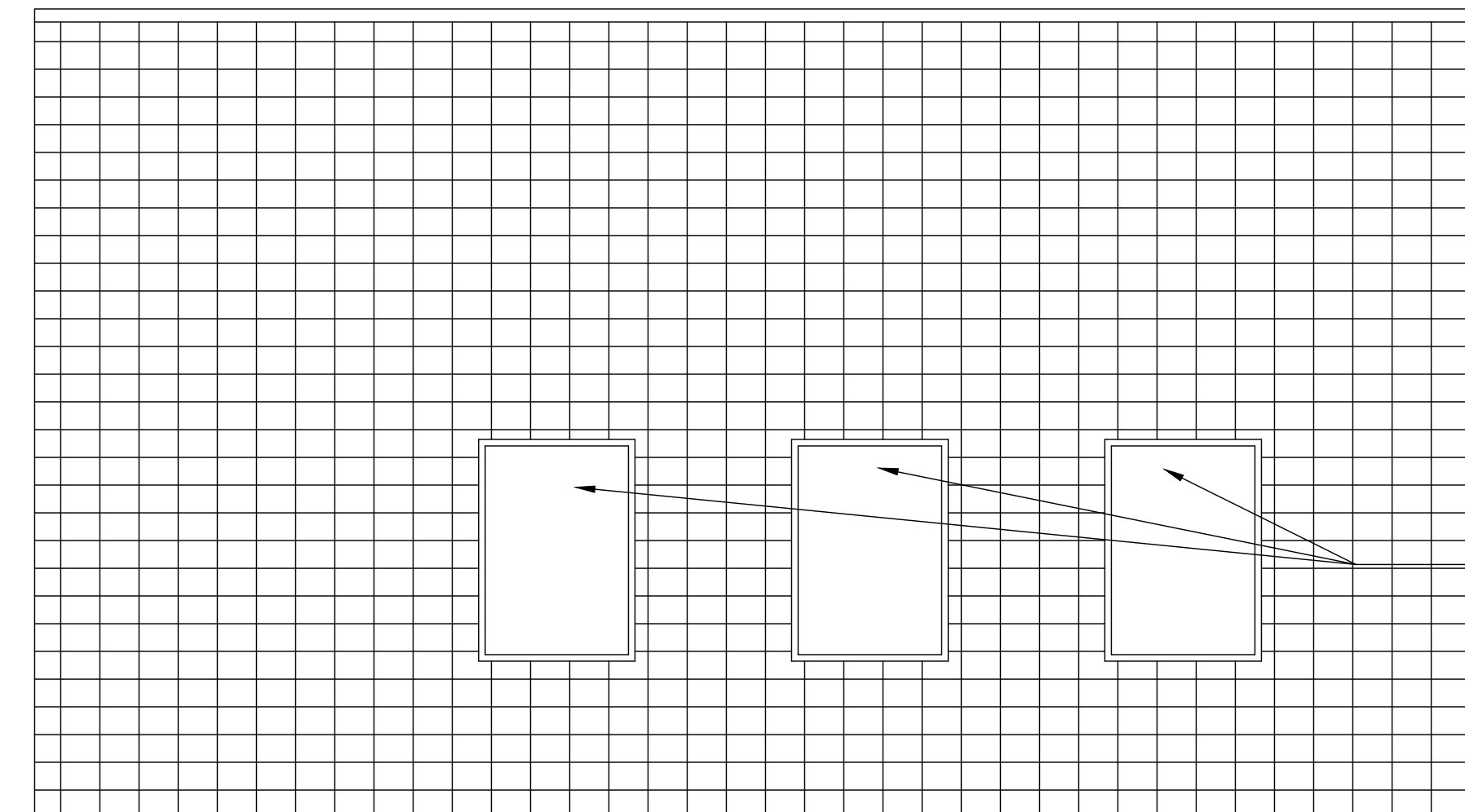
REAR ELEVATION (EXISTING/DEMOLITION)
1/4"=1'-0"

EXISTING DOORS
TO BE REMOVED



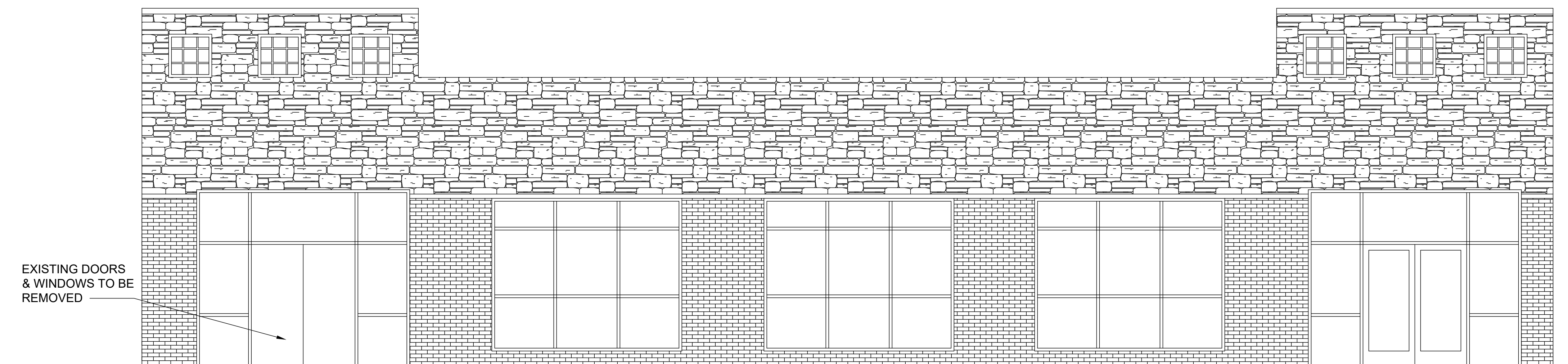
RIGHT SIDE ELEVATION (EXISTING/DEMOLITION)
1/4"=1'-0"

EXISTING WALLS
TO BE REMOVED
FOR DOOR &
WINDOWS



LEFT SIDE ELEVATION (EXISTING/DEMOLITION)
1/4"=1'-0"

EXISTING WINDOWS
TO BE REMOVED TO
FILL IN



FRONT ELEVATION (EXISTING/DEMOLITION)
1/4"=1'-0"

EXISTING DOORS &
WINDOWS TO BE
REMOVED

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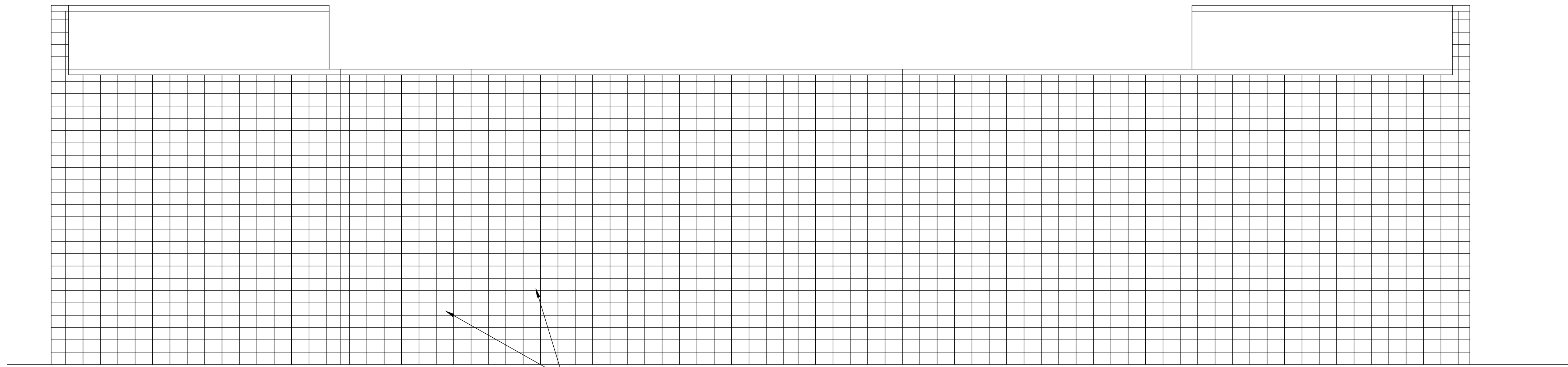
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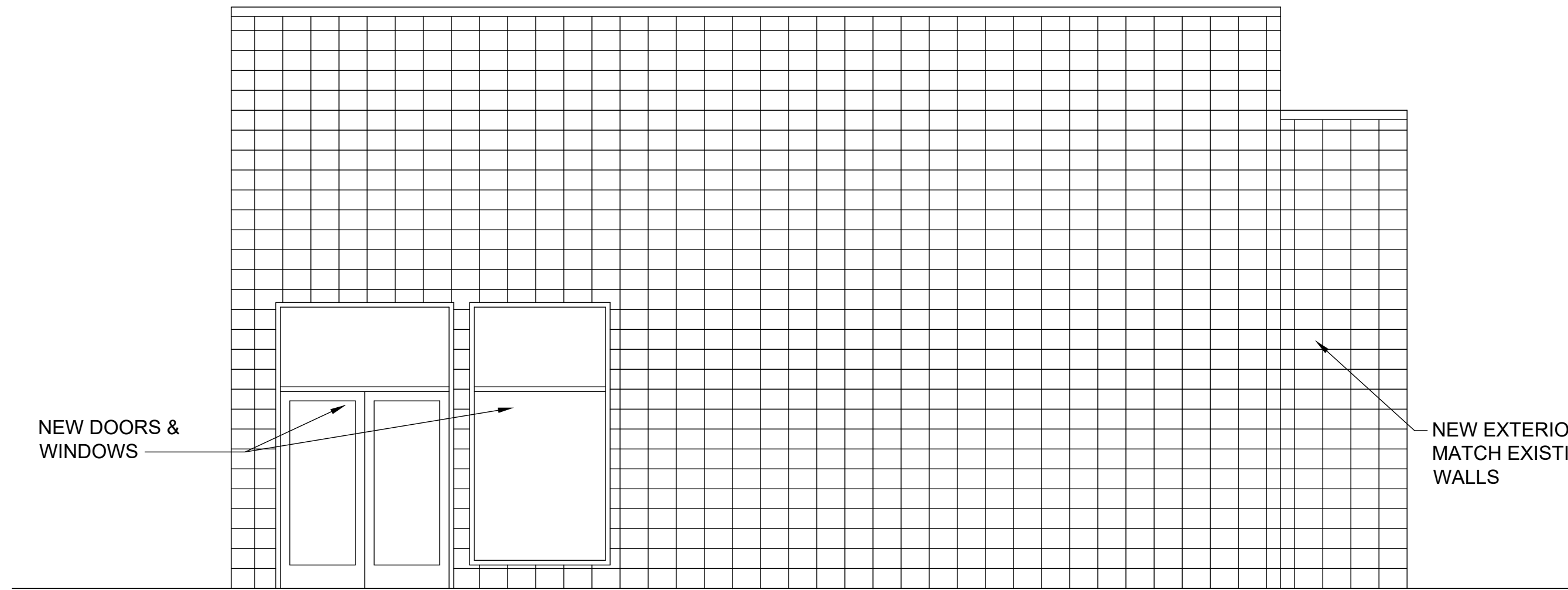
NO.	DATE	REVISION	BY

PROJECT NUMBER
803428
SCALE
AS SHOWN
SHEET NUMBER
A.5
DATE OF ORIGINAL ISSUE
08/30/2013



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

NEW EXTERIOR WALLS TO MATCH EXISTING EXTERIOR WALLS

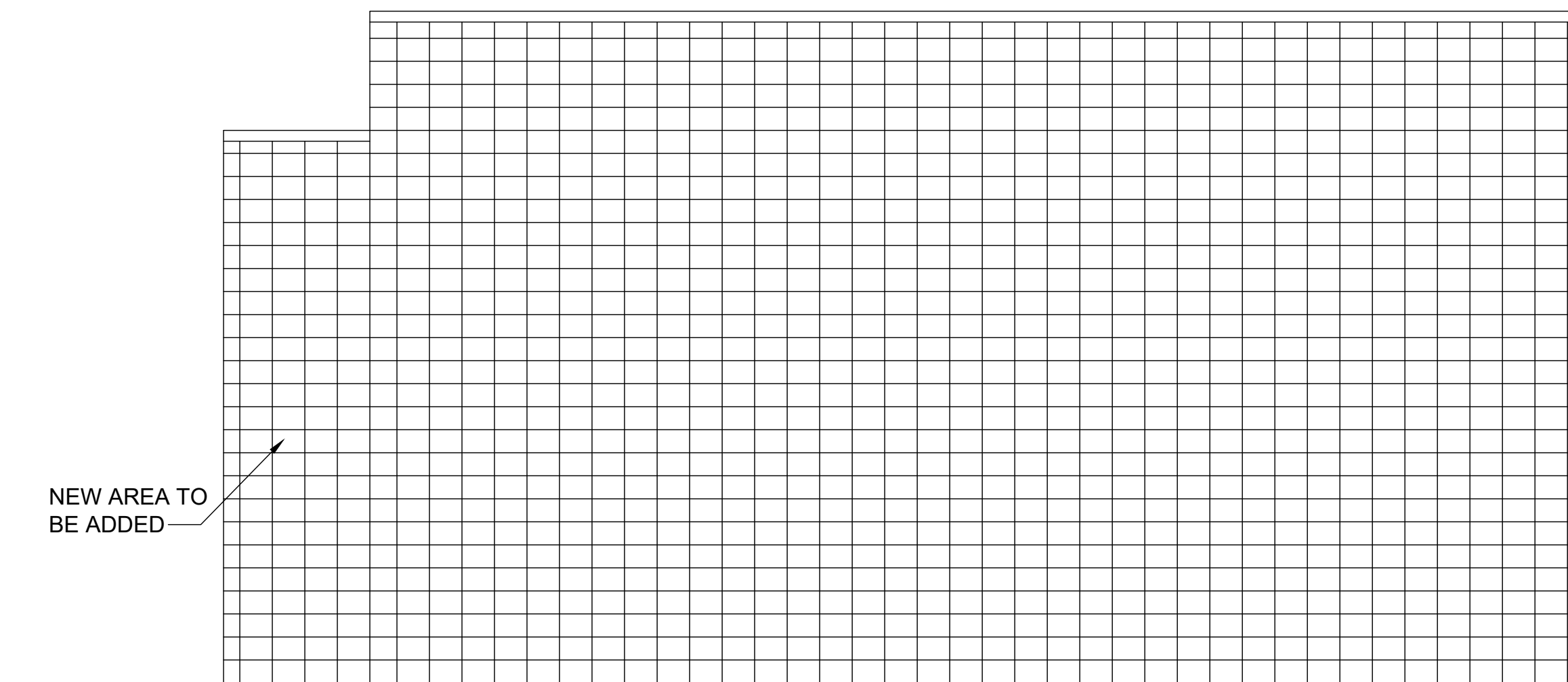


PROPOSED RIGHT SIDE ELEVATION
1/4"=1'-0"

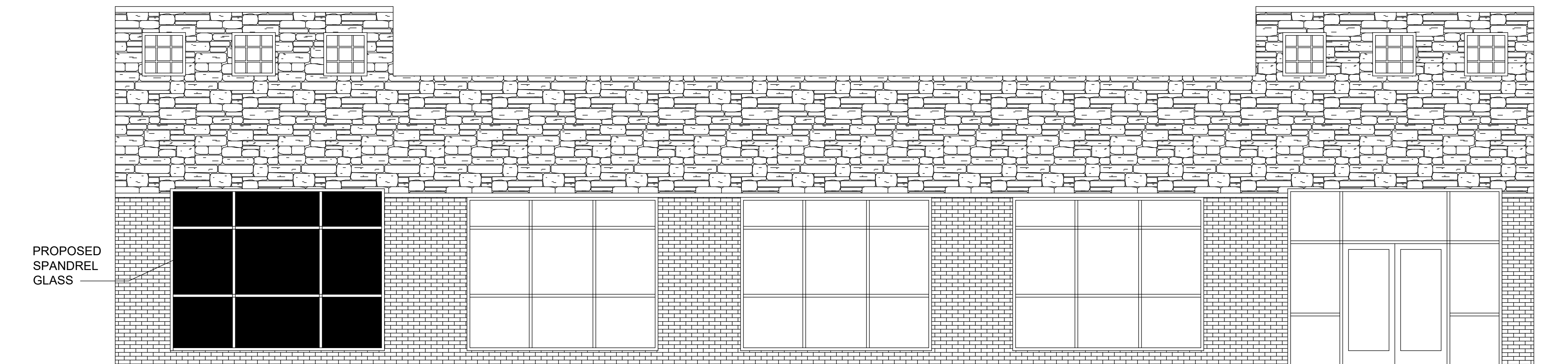
NEW DOORS & WINDOWS

NEW EXTERIOR MATCH EXISTIN WALLS

NEW AREA TO BE ADDED



PROPOSED LEFT SIDE ELEVATION
1/4"=1'-0"



PROPOSED SPANDREL GLASS

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

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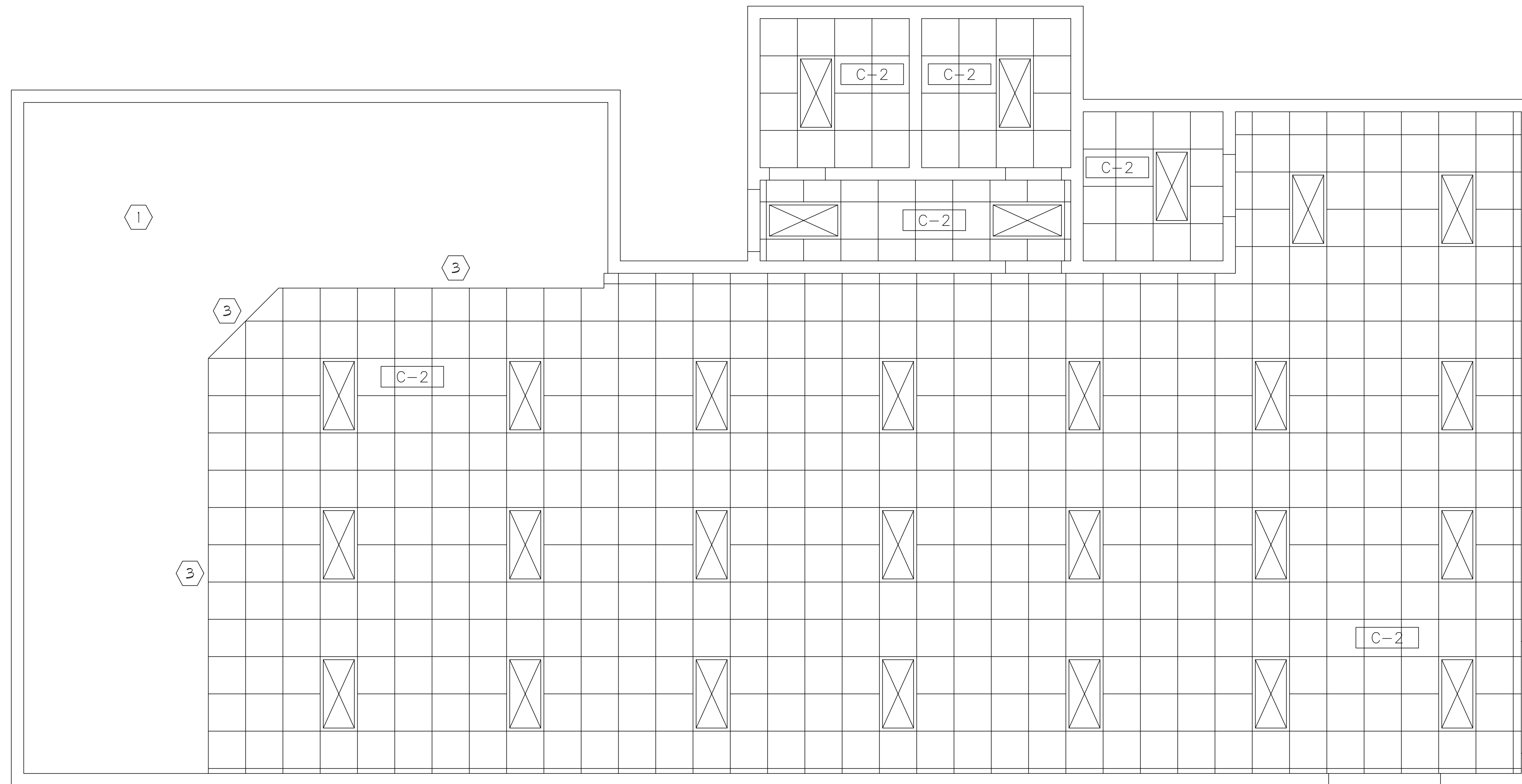


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NO.	DATE	REVISION	BY

PROJECT NUMBER
8031425
SCALE
AS SHOWN
SHEET NUMBER
A.6
DATE OF ORIGINAL ISSUE
08/25/2023



REFLECTED CEILING PLAN
1/4"=1'-0"

KEYED NOTES:

- 1 CEILING PROVIDED BY COOLER/FREEZER MANUFACTURER.
- 2 START POINT FOR CEILING GRID.
- 3 COOLER WALL BULKHEAD CONSTRUCTION TO BOTTOM OF STRUCTURE ABOVE. REFER TO DETAIL A14-02.
- 4 1" REVEAL. REFER TO DETAIL A14-04.

GENERAL NOTES:

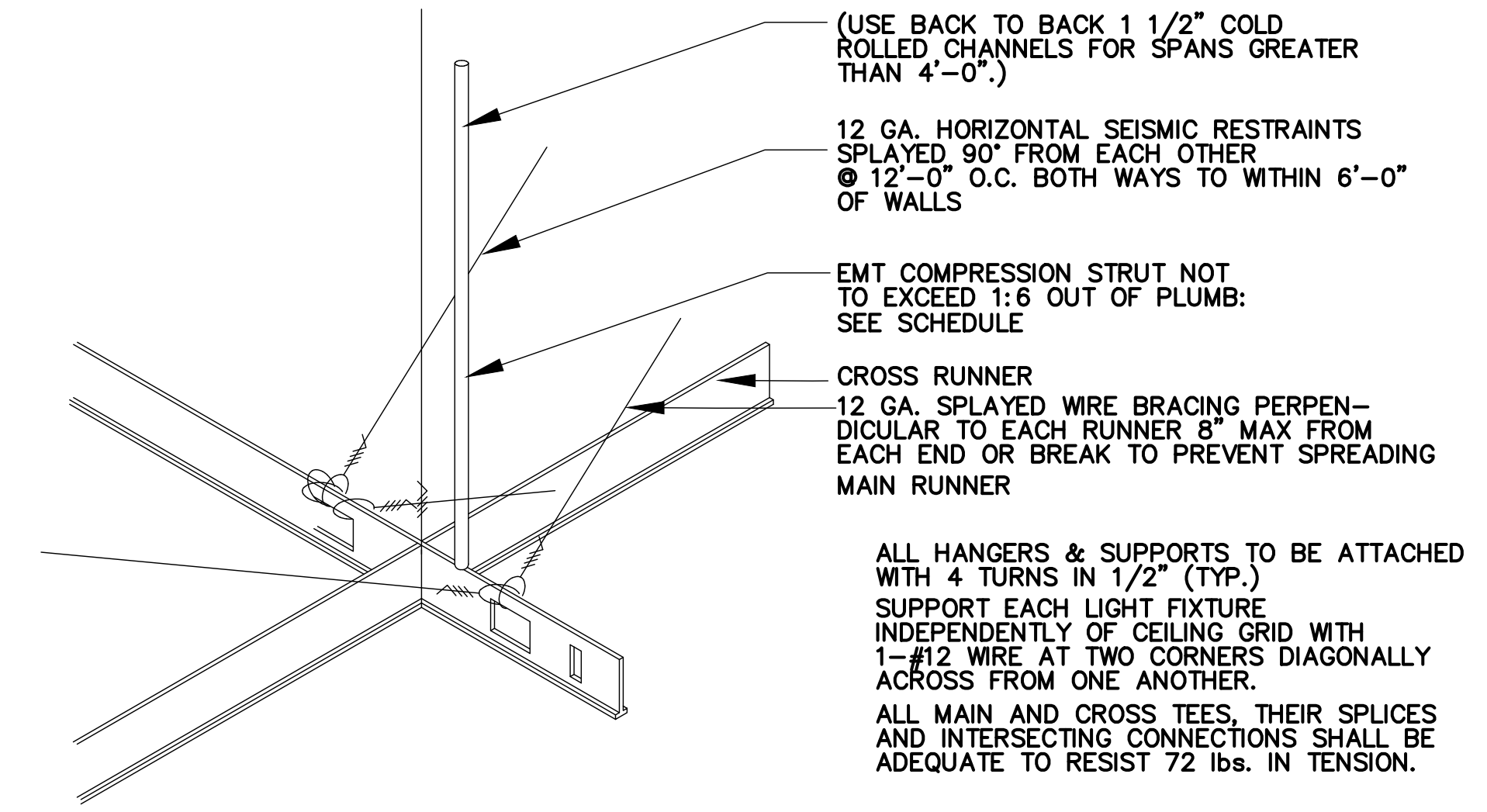
- A. FOR LIGHTING SPECS, REFER TO ELECTRICAL DRAWINGS.
- B. DIMENSIONS ON REFLECTED CEILING PLAN ARE SHOWN FROM FACE OF WALL FINISH, UNLESS NOTED OTHERWISE.
- C. CEILING HEIGHTS ARE NOTED FROM FINISHED FLOOR U.N.O.
- D. LOCATE FIRE BLOCKING IN WALL AT CEILING LINE OF ALL FRAMED WALLS.

CEILING FINISH:

- C-1 1/2" GYPSUM CEILING BOARD OVER 3 5/8" METAL STUDS
- C-2 ARMSTRONG FF-1729 ACOUSTICAL 24"x24"x5/8" LAY-IN TILE. COLOR: PRE-FINISHED WHITE SUPPLIED AND INSTALLED BY G.C. "T" BAR GRID SUPPLIED AND INSTALLED BY G.C. TO MATCH LAY-IN TILE.
- C-3 ARMSTRONG, NON-PERFORATED VINYL. FIRE GUARD #870. 24"x48"x5/8" SQUARE EDGE LAY-IN FIRE GUARD WITH WHITE ALUMINUM GRID. COLOR WHITE. SUPPLIED BY G.C. INSTALLED BY G.C.

PAINT FINISH:

- PT-1 SHERWIN WIL
- PT-2 SHERWIN WIL 2" BAND ABOVE
- PT-3 SHERWIN WIL
- PT-4 SHERWIN WIL
- PT-5 SHERWIN WIL



GUIDELINES FOR SEISMIC RESTRAINT – DIRECT HUNG SUSPENDED CEILING SYSTEMS AS PUBLICLY BY THE CEILINGS & INTERIOR SYSTEMS CONTRACTORS ASSOCIATION, DATED OCTOBER 1, 1991. COMPLY WITH REQUIREMENTS FOR APPLICABLE SEISMIC LOADING.

ASTM. 580 – APPLICATION OF CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS IN AREAS REQUIRING SEISMIC RESTRAINT.

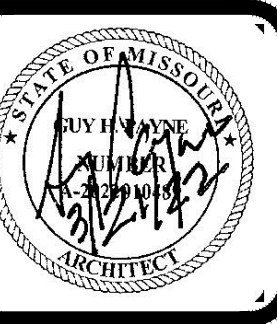
1 SUSPENSION SYSTEM DETAIL
A.105 NTS

ELECTRICAL / HVAC SYMBOLS

- 2' x 4' RECESSED FLUOR. LIGHT FIXTURE
- 2' x 4' RECESSED FLUOR. LIGHT FIXTURE W/ GYP. BD. TRIM KIT
- 1' x 4' SURFACE-MOUNTED TRACK LIGHT FIXTURE
- CANDELLA LIGHT AS PER OWNER
- 2'x2' RECESSED FLUORESCENT FIXTURE W/PARABOLIC LENS
- CEILING FAN-HUNTER DROP STYLE FAN W/5 BLADES WITH LIGHTS AS PER OWNER
- RECESSED COMPACT FLUORESCENT DOWNLIGHT
- RECESSED COMPACT LENS METAL HALIDE CAN LIGHT
- OCCUPANCY SENSOR
- ILLUMINATED EXIT SIGN
- SURFACE-MOUNTED COOLER LIGHT
- LSI INTERLOCKING FLUORESCENT SINGLE LAMP FIXTURES
- AIR SUPPLY GRILL
- AIR RETURN GRILL
- EXHAUST FAN

1. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR FIXTURE SPECIFICATIONS.
2. EXISTING CEILING AND LIGHT FIXTURES ARE TO REMAIN EXCEPT AS SHOWN. REPAIR ALL EXISTING FIXTURES
3. ALL DIMENSIONS ARE FROM FACE OF FINISH.

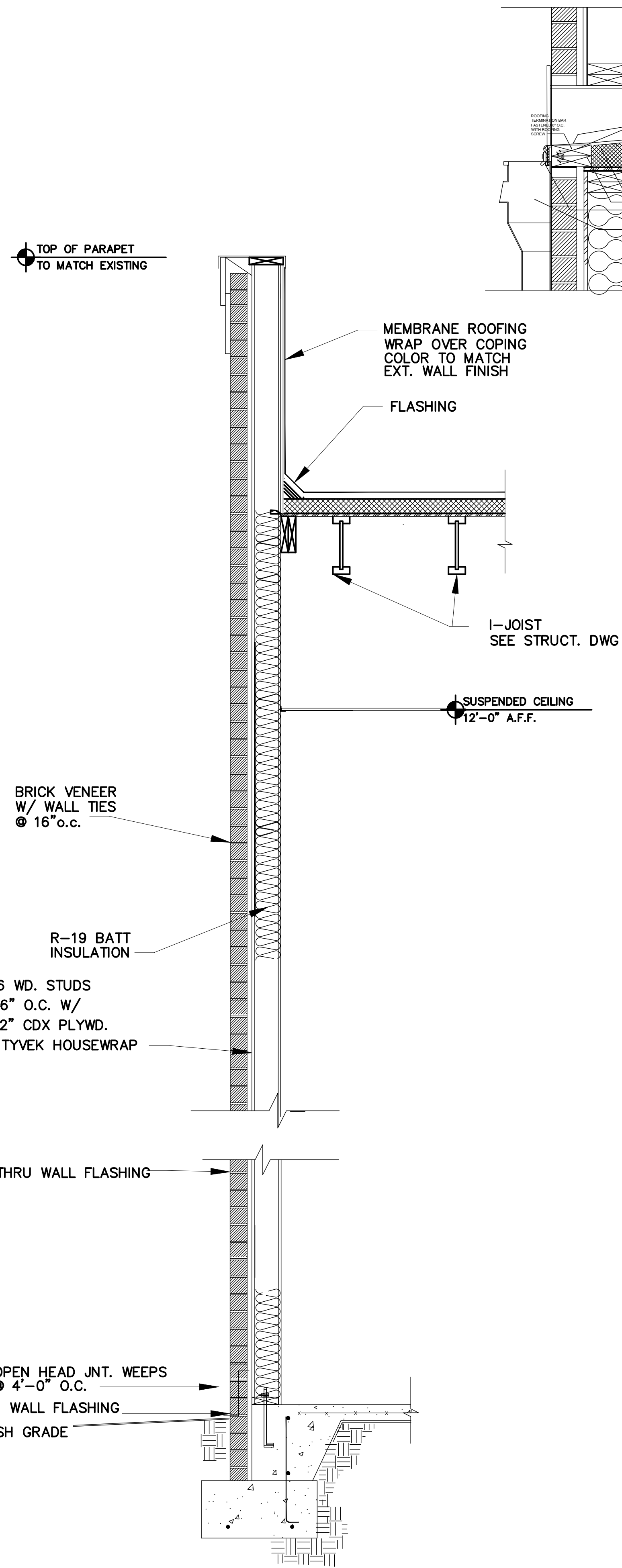
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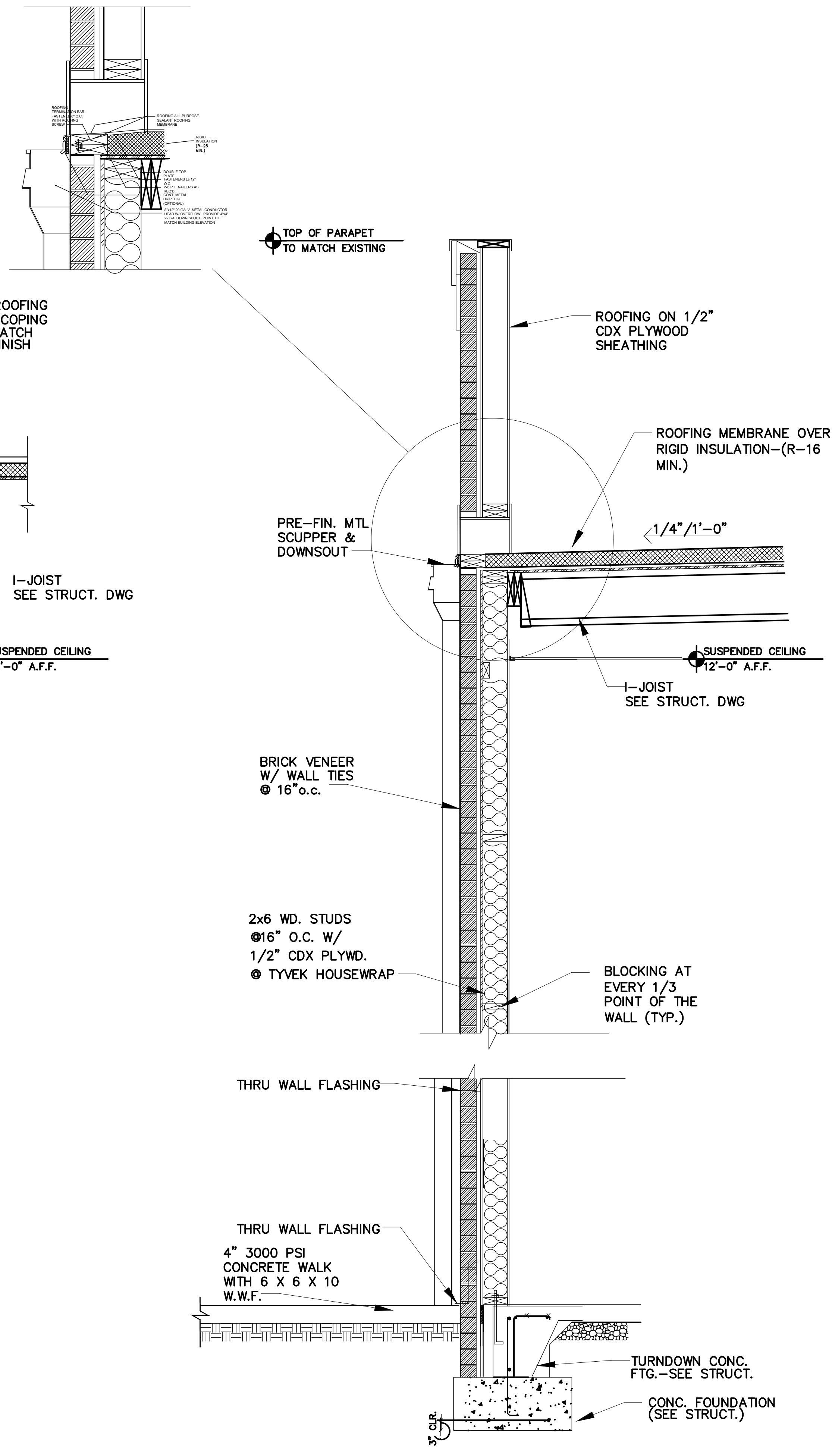
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NO.	DATE	REVISION



1 WALL SECTION
A.301 3/4"=1'-0"



2 WALL SECTION
A.301 3/4"=1'-0"

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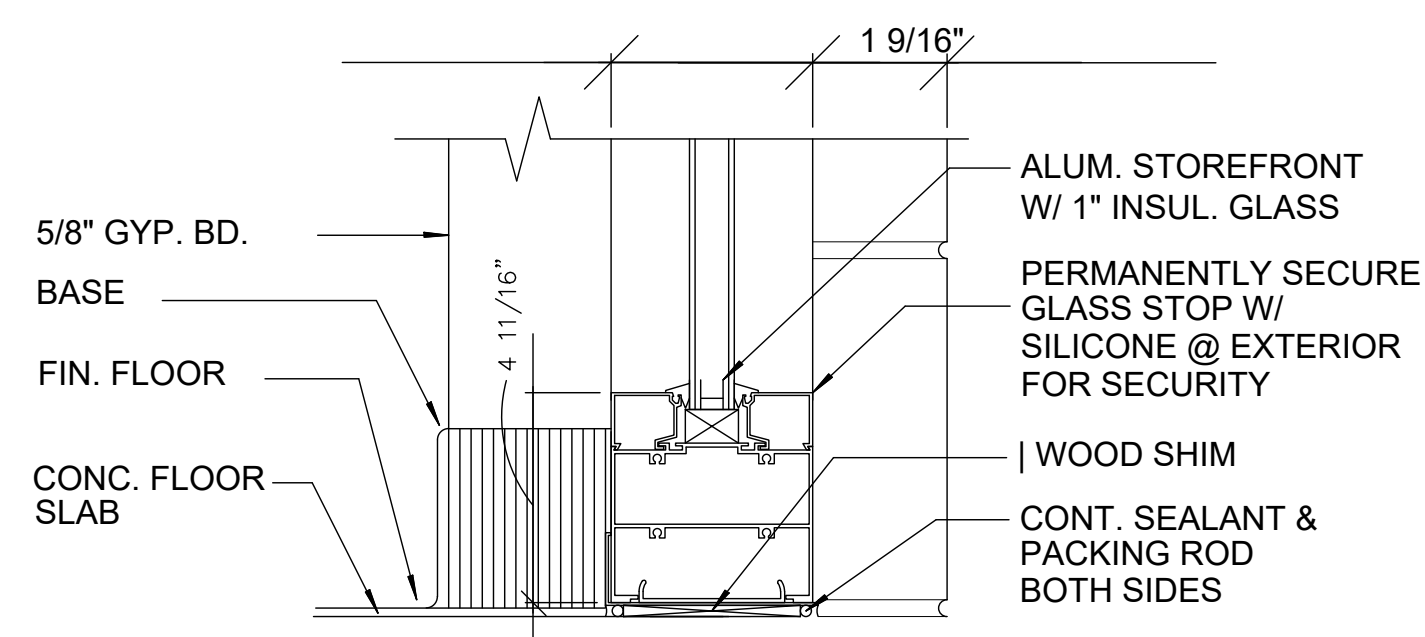
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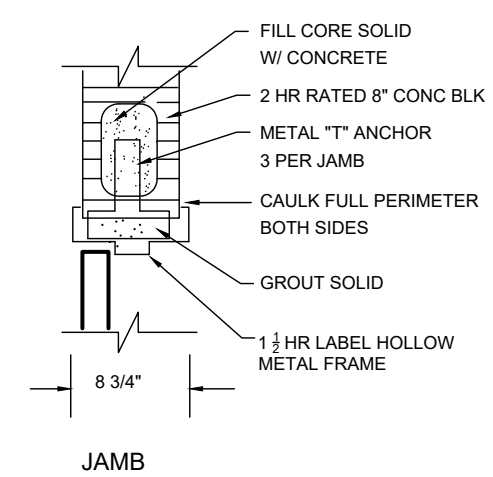
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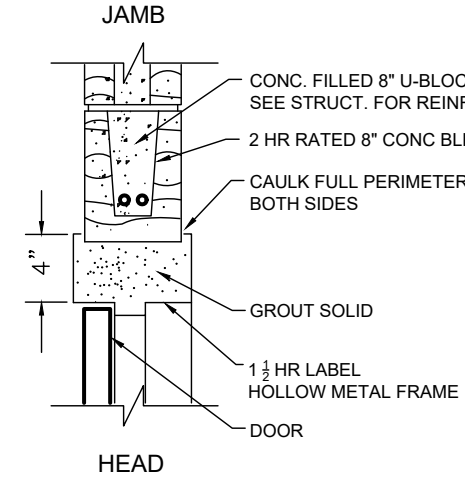
PROJECT NUMBER: R031428
SCALE: AS SHOWN
SHEET NUMBER: A.301
DATE OF ORIGINAL ISSUE: 08/30/2023



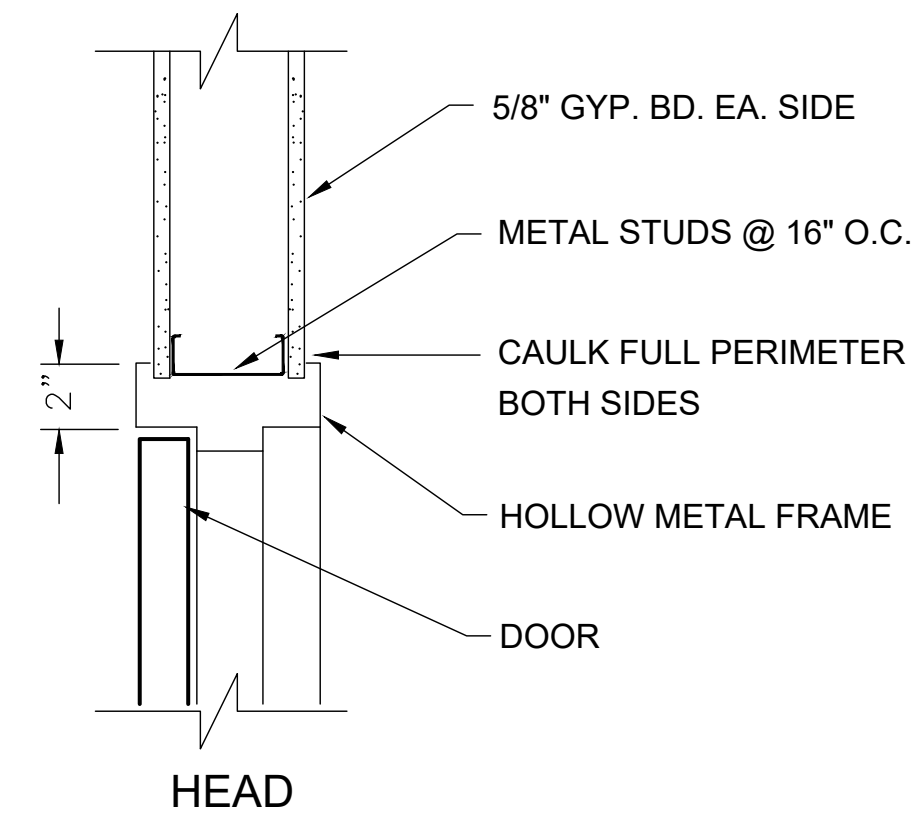
1 STOREFRONT BASE DETAIL
A.401 1/4"=1'-0"



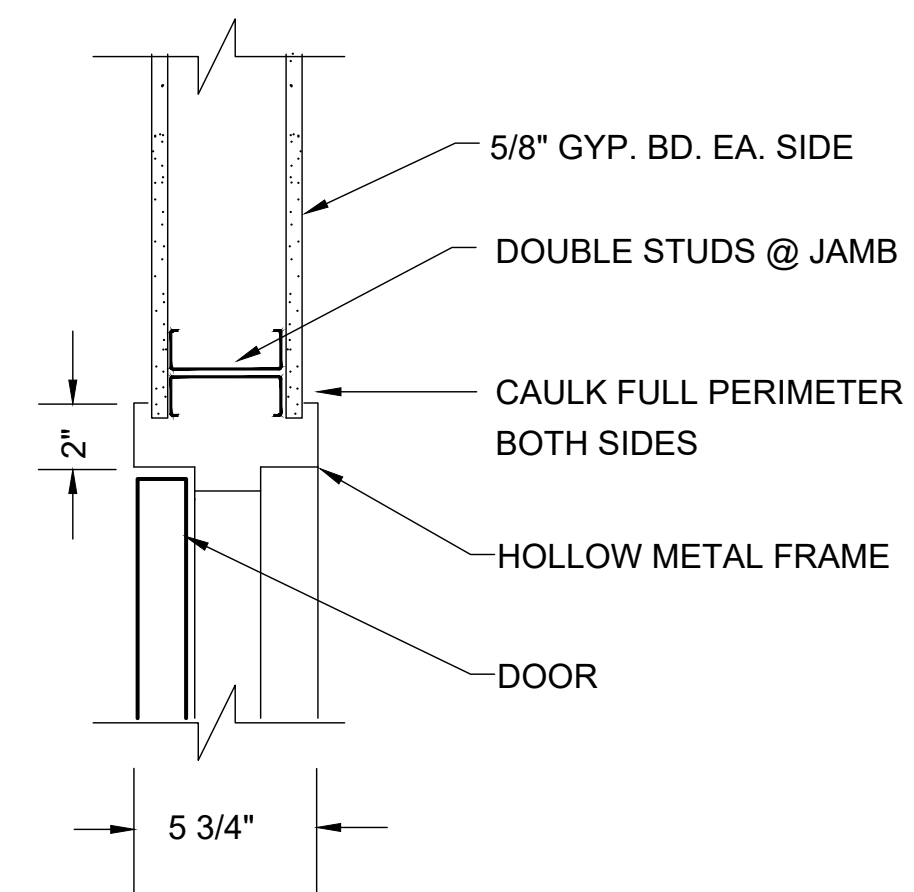
2 DOOR DETAIL
A.401 1/4"=1'-0"



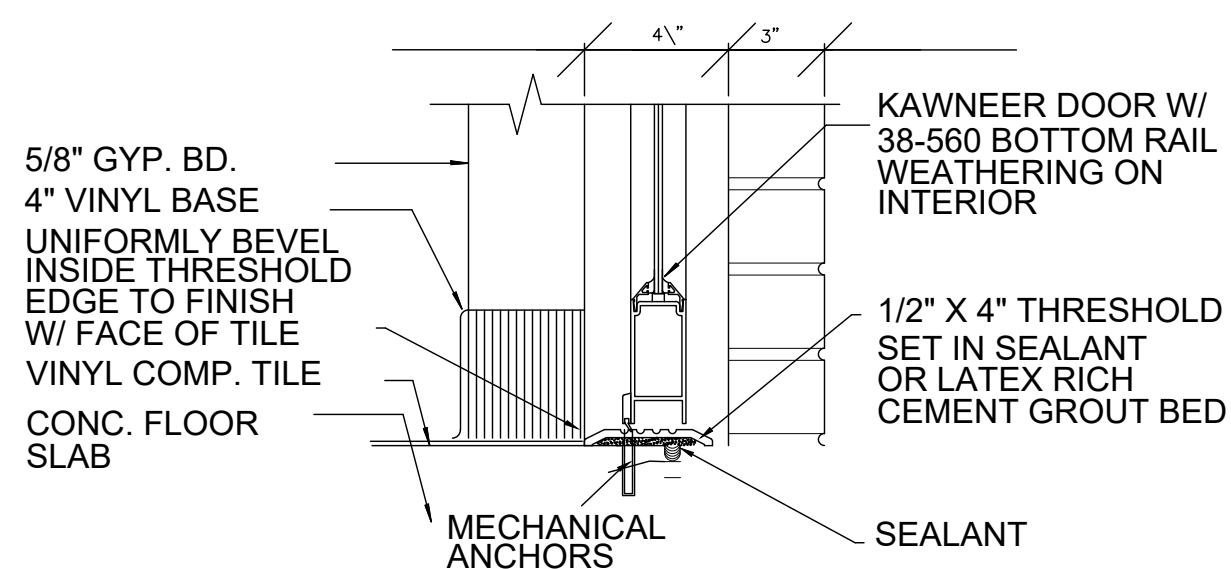
3 DOOR DETAIL
A.401 1/4"=1'-0"



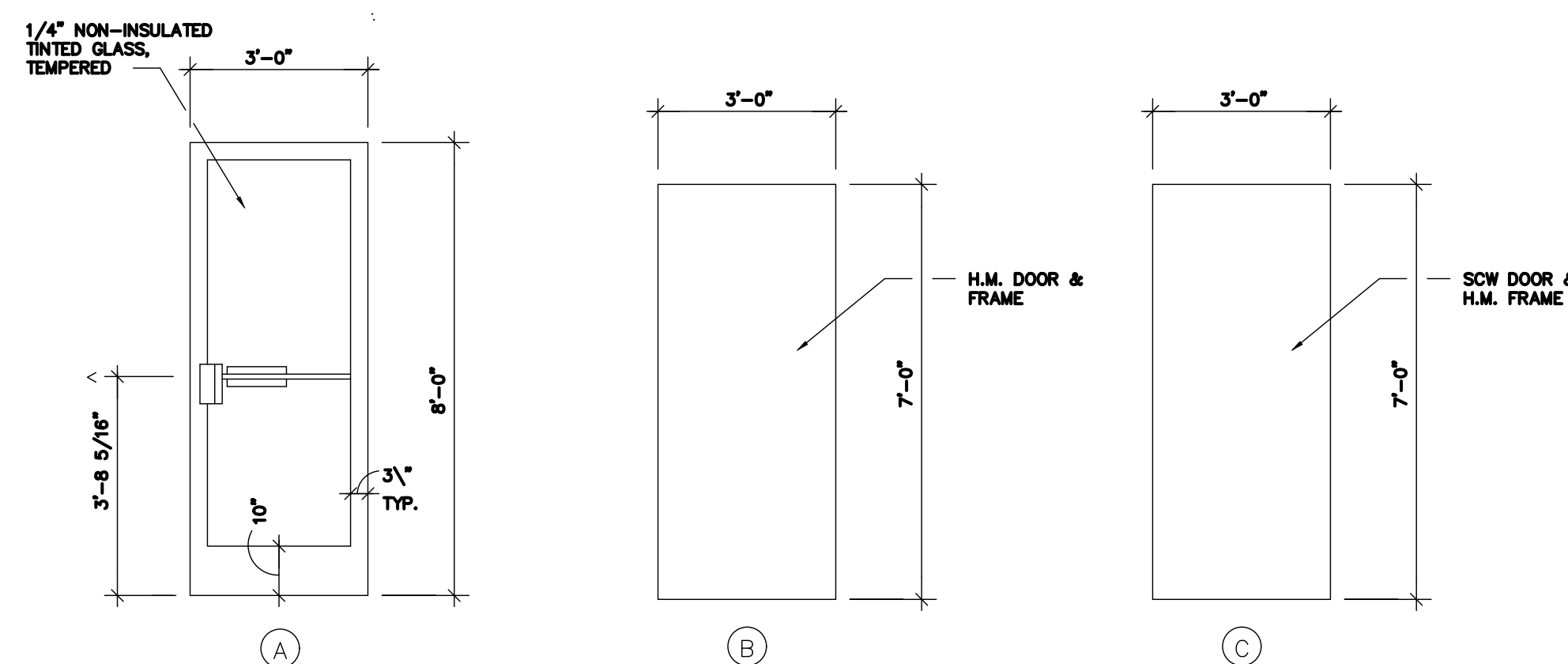
4 DOOR DETAIL
A.401 1/4"=1'-0"



5 DOOR DETAIL
A.401 1/4"=1'-0"



6 DOOR SILL DETAIL
A.401 1/4"=1'-0"

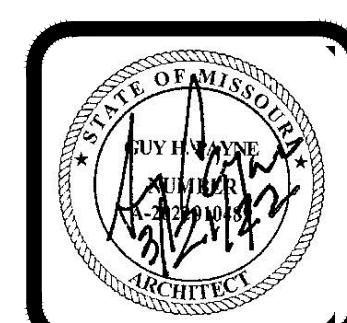


NO.	SIZE	TYPE	MANUFACTURER	FRAME	HARDWARE	FINISH	REMARKS
A	PR. 3'-0" x 8'-0"	NARROW STYLE w/ 1/2" TEMP. GLASS	KAWNEER, VISTAWALL OR US ALUMINUM	ALUMINUM	A	BRONZE	PUSH/ PULLS TOP & BOTTOM OFFSET PIVOTS CONCEALED OVERHEAD CLOSER AR MS-1850A DEADLOCK EXTERIOR KEYS CYLINDER INTERIOR LEVER ALUMINUM THRESHOLD WEATHERSTRIPPING
B	3'-0" x 7'-0" x 1-3/4"	18 GA. FLUSH STL.	REPUBLIC OR EQUAL	HOLLOW METAL	B	MATCH ADJ. WALLS	
C	3'-0" x 7'-0" x 1-3/4"	SCW DOOR	REPUBLIC OR EQUAL	HOLLOW METAL	B	MATCH ADJ. WALLS	
							1 1/2 PAIR BUTT HINGES (NRP) ALUMINUM THRESHOLD WEATHERSTRIPPING DOOR SWEEP DRIP CAP SILENCERS DEADBOLT ENTRANCE LOCKSET 1 LEVER CYLINDER (INSIDE) SECURITY PLATE CRASH CHAIN (135 DEG. MAX.) W/ BUILT-IN SPRING & PLASTIC COVER

8 DOOR SCHEDULE

9 HARDWARE SCHEDULE

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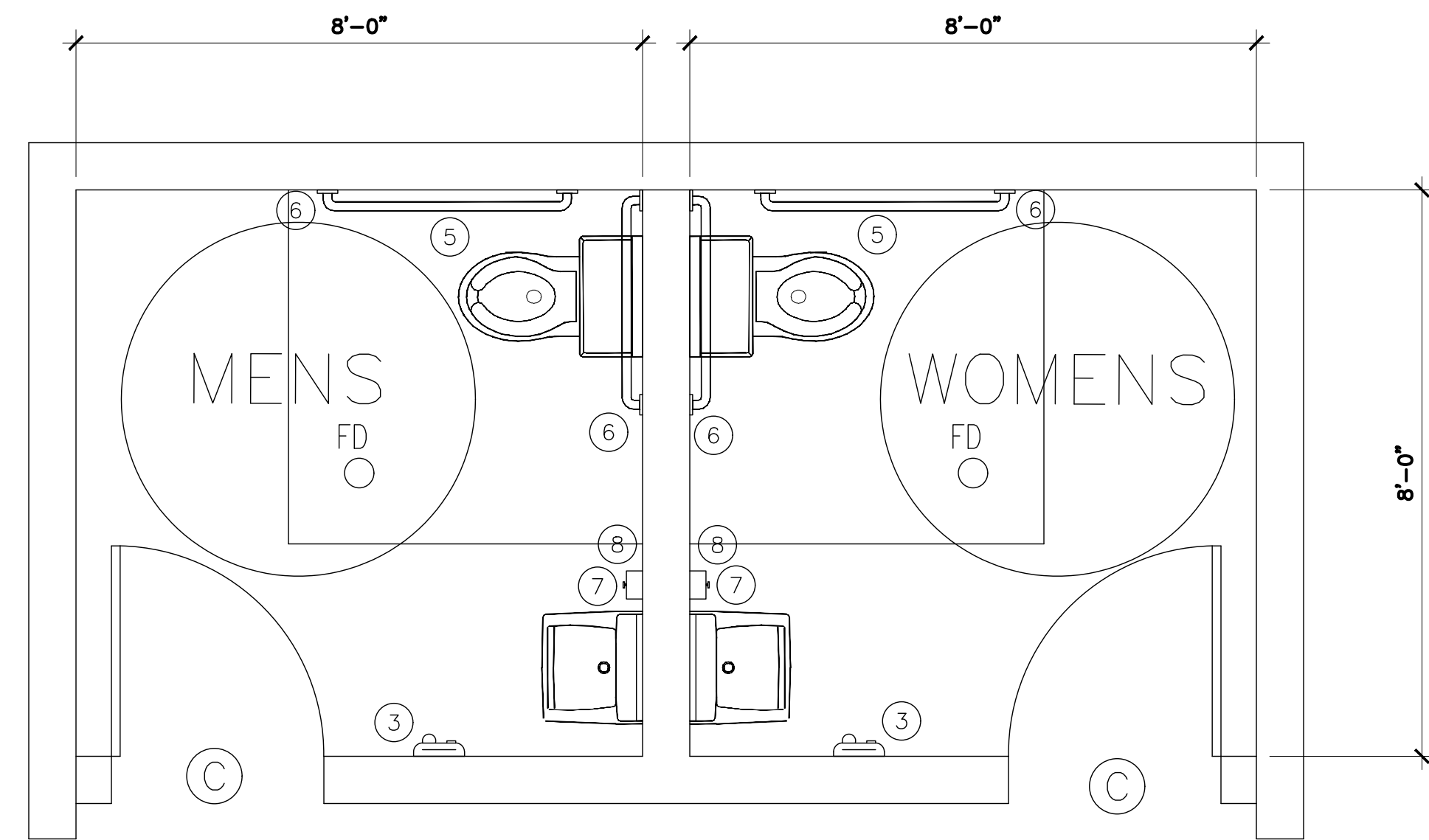
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NO.	DATE	REVISION

PROJECT NUMBER
 RC31428
 SCALE
 AS SHOWN
 SHEET NUMBER
A.401
 OF
 DATE OF ORIGINAL ISSUE
 06/30/2023

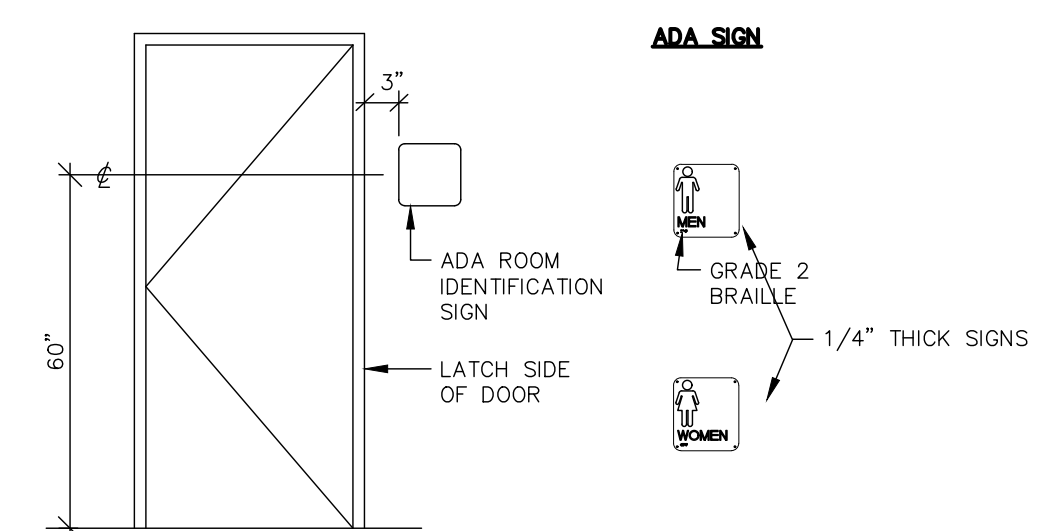


RESTROOM ADA PLANS
1/4"=1'0"

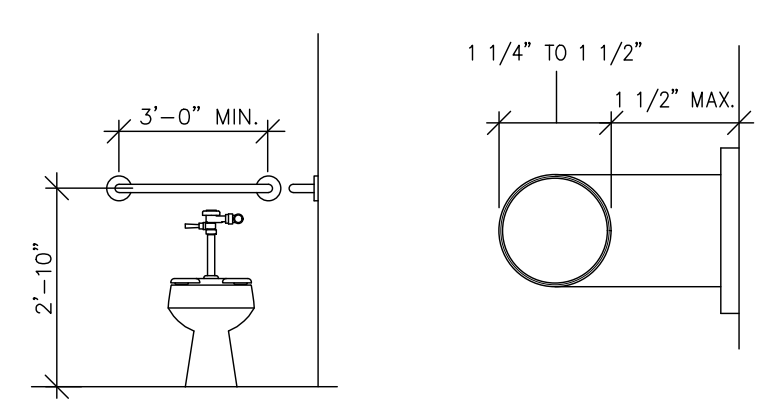
MARK	ITEM	DESCRIPTION
①	SURFACE MOUNTED SAN. NAPKIN VENDOR	BRADLEY # 4017-11
②	SURFACE MOUNTED SAN. NAPKIN DISPOSER	BRADLEY # 4781-15
③	PAPER TOWEL DISPENSER/WASTE RECEPTACLE (LARGE UNIT RECESSED)	BRADLEY # 234
④	COAT HOOK	BRADLEY # 9114
⑤	TOILET TISSUE DISPENSER SURFACE MOUNTED	BRADLEY # 5402
⑥	GRAB BARS	812-005-36 812-005-42
⑦	SOAP DISPENSER	BRADLEY # 6542
⑧	MIRROR	O.S.C.I
⑨	URNINAL SCREEN	BRADLEY #
⑩	TOILET PARTITIONS	BRADLEY #
⑪	COUNTER TOP	O.S.C.I

ACCESSIBILITY NOTES

- WALKS AND SIDEWALKS SUBJECT TO THESE REGULATIONS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCH, AND SHALL BE A MINIMUM OF 48 INCHES IN WIDTH.
- SURFACES WITH A SLOPE OF LESS THAN 6 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.
- SURFACES WITH A SLOPE OF 6 PERCENT GRADIENT OR GREATER SHALL BE SLIP-RESISTANT.
- SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH PER FOOT.
- WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2 INCH IN THE DIRECTION OF TRAFFIC FLOW.
- ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL.
- FLOOR ON LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOOR WAY, WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS.
- ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
- EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 8 FEET, 8 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32 INCHES. ALL DOORS SHALL SWING OUTWARD IN THE PATH OF TRAVEL TO EXIT.
- 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.
- HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR.
- DOOR HARDWARE SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- BATHROOM ACCESSORIES, SUCH AS GRAB BARS, TOWEL BARS, SOAP DISHES, ETC., ON OR WITHIN WALLS SHALL BE SEALED AGAINST MOISTURE (UBC 510(B)). ABOVE FLOOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET
- AREA AND WITHIN 40" OF THE FLOOR, THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL NOT EXCEED 5 POUNDS.
- INSULATED OR OTHERWISE COVERED, THERE SHALL BE NO SHARP OR ABRASIVE OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE.



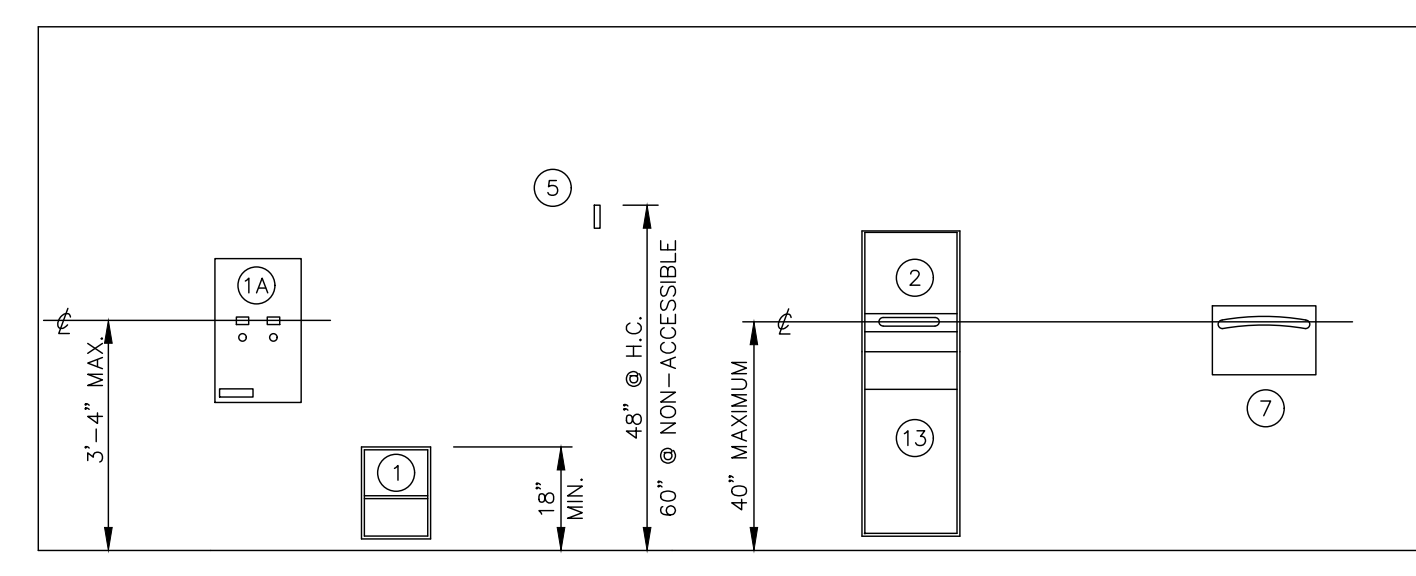
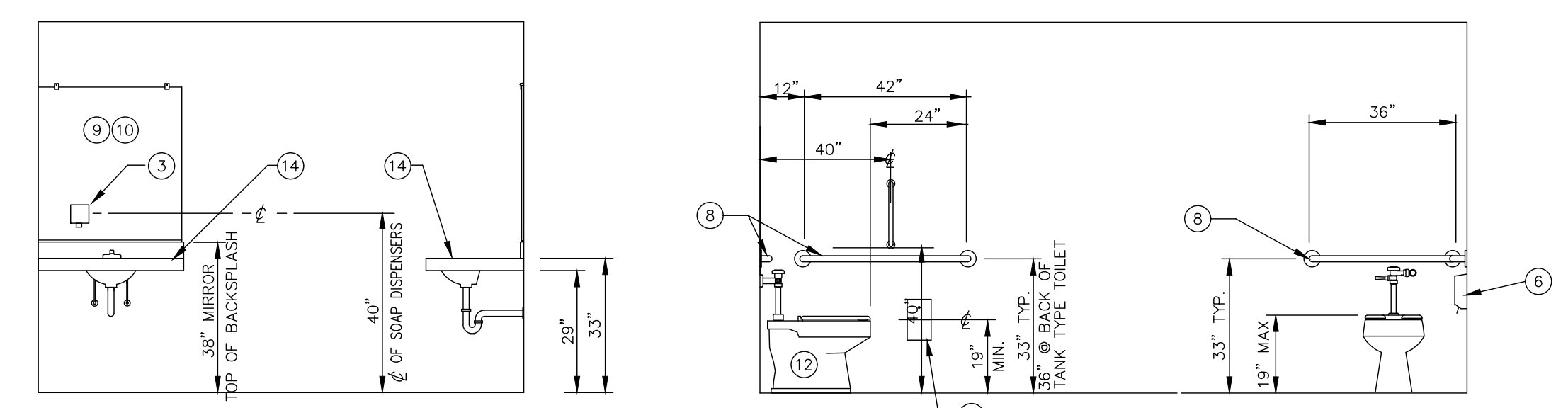
- NOTES**
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
 - IDENTIFICATION SYMBOLS ARE TO BE CENTERED ON DOOR 60" ABOVE FLOOR AND ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.
 - BOTH TITLE 24 SIGNS AND ADA SIGNS ARE REQUIRED IN CALIFORNIA.
 - PROVIDE ROOM IDENTIFICATION SIGN ON LATCH SIDE OF DOOR.
 - LETTERS & NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN., SHALL BE A MIN. OF 5/8" HIGH & SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
 - ADA SIGNAGE PROVIDED BY CUSA.



- GRAB BARS:**
- LOCATE GRAB BARS ON EACH SIDE AND ONE SIDE AND BACK OF TOILET. 33" ABOVE AND PARALLEL TO THE FLOOR, EXCEPT WITH A TANK-TYPE TOILET WHICH OBSTRUCTS PLACEMENT, THE GRAB BAR MAY BE AS HIGH AS 36". BARS AT SIDE TO BE 42" LONG WITH FRONT END 24" IN FROM TOILET. BARS IN BACK TO BE 36" LONG. DIAMETER OR WIDTH OF GRIPPING SURFACE IS REQUIRED TO BE 1 1/4" TO 1 1/2", OR SHAPE IS TO PROVIDE AN EQUIVALENT GRIPPING SURFACE.
 - IF GRAB BARS ARE MOUNTED ADJACENT TO WALL THE SPACE BETWEEN WALL AND BAR IS TO BE 1 1/2"
 - GRAB BARS SHALL NOT ROTATE.
 - GRAB BARS AND ANY SURFACE ADJACENT TO THEM CANNOT HAVE ANY SHARP OR ABRASIVE ELEMENTS. EDGES ARE TO HAVE A MINIMUM RADIUS OF 1/8".
 - GRAB BARS AND MOUNTINGS SHALL WITHSTAND 250 LBS. PROVIDE 2X8 SOLID BLOCKING IN WALLS @ WALL MOUNTED ACCESSORIES (TYP.).

2 ACCESSIBILITY SIGNAGE

1 TOILET ACCESSORIES



3 TYPICAL RESTROOM ELEVATIONS / MOUNTING HEIGHTS

RESTROOM EQUIPMENT

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NO.	DATE	REVISION	BY

PROJECT NUMBER: 2014128
SCALE: AS SHOWN
SHEET NUMBER: A.402
OF:
DATE OF ORIGINAL ISSUE: 08/30/2023

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	MODEL 1	MODEL 2	INPUT WATTS	VOLTS	NOTE 1
A		34W LED	2X4 LED TROFFER WITH LENS	LITHONIA 2GTL 4 48L EZ1 LPL840	LITHONIA 2GTL 4 48L EZ1 LPL840		34	120V 1P 2W	
AE		34W LED	2X4 LED TROFFER WITH LENS	LITHONIA 2GTL 4 48L EZ1 LPL840 BATTERY BACKUP	LITHONIA 2GTL 4 48L EZ1 LPL840	BATTERY BACKUP	34	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT
E		5W LED	EXIT SIGN COMBO	DUAL LITE #EVC-U-R-W	DUAL LITE #EVC-U-R-W		5	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT
EG		5W LED	LED EMERGENCY REMOTE HEAD WET LOCATION	DUAL LITE #PGZ	DUAL LITE #PGZ		5	120V 1P 2W	CONNECT UNSWITCHED HOT FROM CIRCUIT DIRECTLY INDOOR FROM FIXTURE. PROVIDE "SWITCHED" HOT FROM PHOTOCELL CIRCUIT AS INDICATED
W-2		(216) 87W	Contractor Select CNY LED Canopy P3=11,000lm	Lithonia Lighting, CNY LED P3 40K MVOLT GLASS BLOCK	Lithonia Lighting, CNY LED P3 40K MVOLT	GLASS BLOCK	86.58	120V 1P 2W	

Telephone and Data Schedule

CALLOUT	SYMBOL	NOTE 1
Telephone Outlet		

RECEPTACLE SCHEDULE

CALLOUT	SYMBOL	VOLTS	NOTE 1	NOTE 2
Duplex Outlet		120V 1P 2W	DUPLEX RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI	
Duplex Outlet-Above Counter		120V 1P 2W	DUPLEX RECEPTACLE, MTD AT 4" ABOVE BACKSPLASH TO BOTTOM, UOI	COORDINATE WITH CASEWORK CONTRACTOR
Duplex Outlet-GFCI Above Counter		120V 1P 2W	GFCI PROTECTED DUPLEX RECEPTACLE, MTD AT 4" ABOVE BACKSPLASH TO BOTTOM, UOI	COORDINATE WITH CASEWORK CONTRACTOR
Floor Box Duplex		120V 1P 2W	SINGLE GANG FLOOR BOX WITH 2 SIMPLEX RECEPTACLE	STEEL CITY #600 SERIES, ROUND, CAST IRON BOX WITH METALLIC COVER #P60 SERIES, OR EQUAL
J-Box (120V)		120V 1P 2W	JUNCTION BOX, USE AS INDICATED	

SWITCH SCHEDULE

CALLOUT	SYMBOL	NOTE 1	NOTE 2	NOTE 3
Generic Switch		\$		
SWITCH WITH OCC SENSOR		\$ oc	WALL MOUNTED DUAL TECHNOLOGY, OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH.	ACUITY CONTROLS #WSX-PDT-WH MTD 48" AFF. UOI

GENERAL SCHEDULE

CALLOUT	SYMBOL	VOLTS	AMPS	HP	CIRCUIT	WIRE CALLOUT
24a		120V 1P 2W	15			
CP-1		120V 1P 2W	3.5	1/10 HP	P-1-15	1/2"C,1#12,#12N,#12G
CU-1		208V 2P 2W	12.02		P-1-12,14	1/2"C,2#10,#10G
CU-2		208V 2P 2W	12.02		P-1-16,18	1/2"C,2#10,#10G
CU-3		208V 2P 2W	12.02		P-1-24,26	1/2"C,2#12,#12G
CU-4		208V 2P 2W	12.02		P-1-32,34	1/2"C,2#12,#12G
EF-1		120V 1P 2W	3.5	1/10 HP	P-1-37	1/2"C,1#12,#12N,#12G
EF-2		120V 1P 2W	3.5	1/10 HP	P-1-37	1/2"C,1#12,#12N,#12G
EF-3		120V 1P 2W	3.5	1/10 HP	P-1-37	1/2"C,1#12,#12N,#12G
EVAP 1		208/120V 2P 3W	3.85		P-1-8,10	1/2"C,2#10,#10N,#10G
EVAP 2		208/120V 2P 3W	3.85		P-1-20,22	1/2"C,2#12,#12N,#12G
EVAP 3		208/120V 2P 3W	3.85		P-1-28,30	1/2"C,2#12,#12N,#12G
EVAP 4		208/120V 2P 3W	3.85		P-1-36,38	1/2"C,2#12,#12N,#12G
FUEL SYSTEM		208V 3P 3W	60		P-1-65,67,69	1/2"C,3#1, #8G
GRILLE		208V 2P 2W	10		P-1-56,58	1/2"C,2#12,#12G
HEATED DISPLAY		208V 3P 3W	20		P-1-39,41,43	1/2"C,3#10,#10G
HOOD		120V 1P 2W	5		P-1-47	1/2"C,1#12,#12N,#12G
ICE		208/120V 2P 3W	34.64		P-1-49,51	3/4"C,2#6,#6N,#10G
KEF-1		208/120V 2P 3W	7.96	3/4 HP	P-1-57,59	1/2"C,2#12,#12N,#12G
KSF-1		208/120V 2P 3W	9.23	1 HP	P-1-61,63	1/2"C,2#12,#12N,#12G
RTU-1		208V 3P 3W	30		P-1-60,62,64	3/4"C,3#8,#10G
RTU-2		208V 3P 3W	30		P-1-66,68,70	3/4"C,3#8,#10G
SELF SERVICE		208/120V 2P 3W	34.64		P-1-21,23	3/4"C,2#6,#6N,#10G
SELF SERVICE		208/120V 2P 3W	34.64		P-1-81,83	3/4"C,2#6,#6N,#10G
WH-1		208V 3P 4W	16.5		P-1-9,11,13	1/2"C,3#10,#10N,#10G

ELECTRICAL SYMBOLS

- NONFUSED DISCONNECT SWITCH - SIZE AS INDICATED
- FUSED DISCONNECT SWITCH - SIZE AS INDICATED
- COMBINATION STARTER/DISCONNECT - SIZE AS INDICATED
- TOGGLE SWITCH
- FEEDER/BRANCH RUN OVERHEAD - CONCEALED IN OR ABOVE CEILING, IN WALL, OR EXPOSED ON STRUCTURE
- EMERGENCY, NIGHT LIGHT, OR FEEDER/BRANCH CONCEALED BELOW FLOOR, IN WALL, OR BELOW GRADE
- HOME RUN TO CIRCUIT PANEL, NEUTRAL/HOT/GROUND, #12 COPPER, UOI

ABBREVIATIONS

- a,b,c, etc. DENOTES SWITCHING SCHEME
- AC MOUNT ABOVE COUNTER
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BFG BELOW FINISHED GRADE
- EC ELECTRICAL CONTRACTOR
- EP EXPLOSION PROOF
- EX EXISTING
- FAA FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- GC GENERAL CONTRACTOR
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- MC MECHANICAL CONTRACTOR
- MTD MOUNTED
- OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
- SPD SURGE PROTECTIVE DEVICE
- STB SHUNT TRIP BREAKER
- UOI UNLESS OTHERWISE INDICATED
- WP WEATHERPROOF

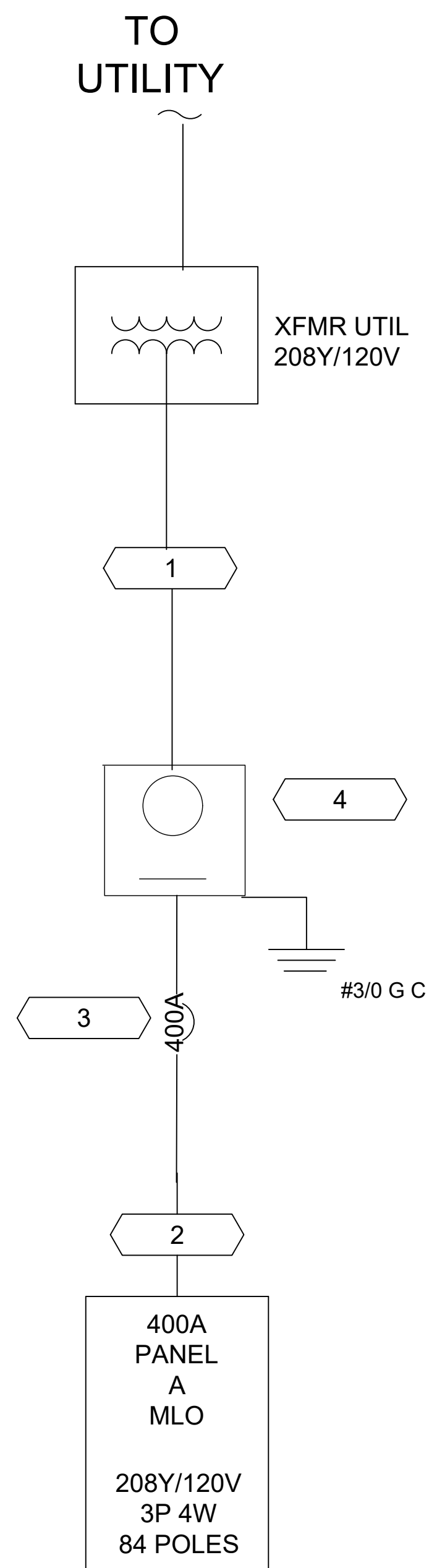
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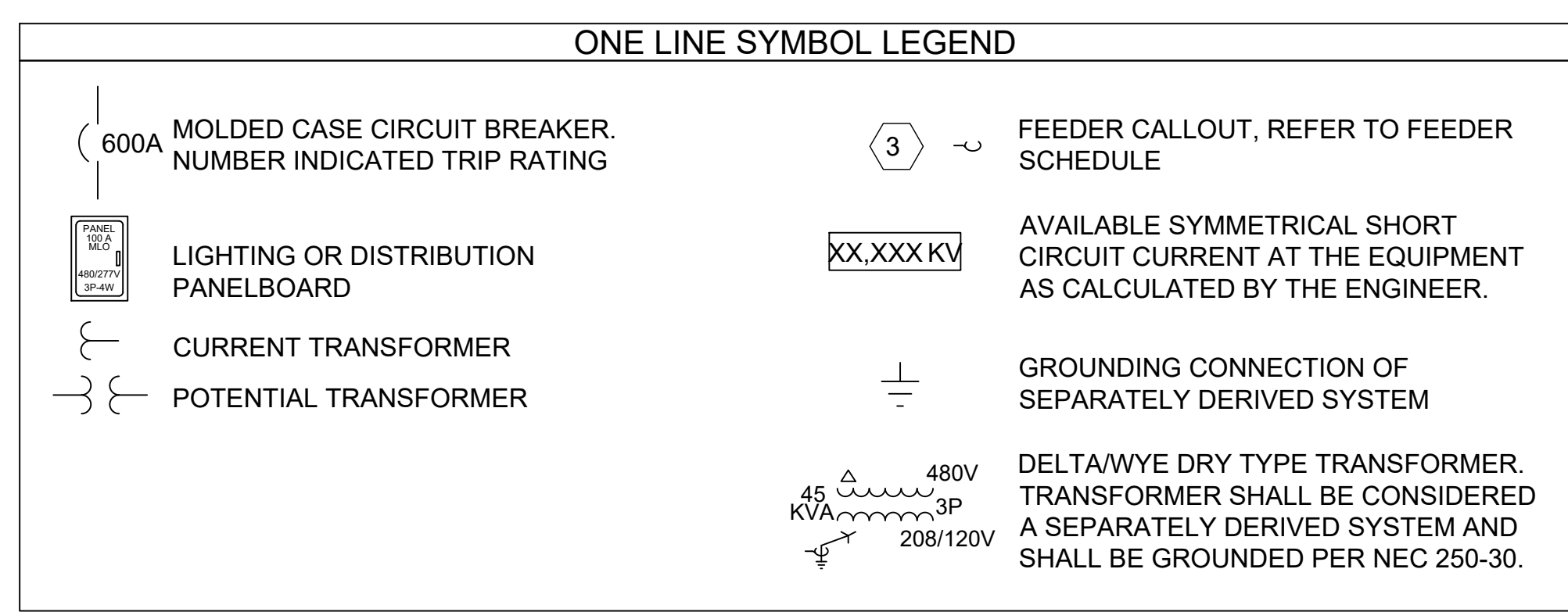
REV	NO.	DATE	DESCRIPTION

PROJECT NUMBER: 20061241
 SCALE: AS SHOWN
 SHEET NUMBER: E.001
 OF: 1
 DATE OF ORIGINAL ISSUE: 2/18/22

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- 1 2 PARALLEL PAIR OF 4 #250MCM AL, 2-1/2" C
- 2 2 PARALLEL PAIR OF 4#250MCM AL, #1/0 G - 3" C
- 3 NEW 400 AMP FUSED DISCONNECT
- 4 UTILITY METER



P-1											
ROOM			VOLTS 208Y/120V 3P 4W			AIC 22,000					
MOUNTING FLUSH			BUS AMPS 400			MAIN BKR MLO					
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD					
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	EMERGENCY	0			2	20/1	SPACE	0		
3	20/1	LIGHTING		0.346		4	20/1	SPACE		0	
5	20/1	RECEPTACLE			0.9	6	20/1	SPACE			0
7	20/1	SPACE	0			8	20/2	EVAP 1	0.4		
9	30/3	WH-1		1.98		10				0.4	
11					1.98	12	20/2	CU-1			1.25
13			1.98			14			1.25		
15	20/1	CP-1		0.42		16	20/2	CU-2		1.25	
17	20/1	RECEPTACLE			0.54	18					1.25
19	20/1	GFCI RECEPTACLE	0.36			20	20/2	EVAP 2	0.4		
21	50/2	SELF SERVICE		3.6		22				0.4	
23					3.6	24	20/2	CU-3			1.25
25	20/1	RECEPTACLE	0.18			26			1.25		
27	20/1	LIGHTING		0.987		28	20/2	EVAP 3		0.4	
29	20/1	SPACE			0	30					0.4
31	20/1	SPACE	0			32	20/2	CU-4	1.25		
33	20/1	SPACE		0		34				1.25	
35	20/1	RECEPTACLE			0.18	36	20/2	EVAP 4			0.4
37	20/1	EF-1, EF-2, EF-3	1.26			38			0.4		
39	30/3	HEATED DISPLAY		2.4		40	20/1	RECEPTACLE		0.18	
41					2.4	42	20/1	RECEPTACLE	0.18		
43			2.4			44	20/1	RECEPTACLE		0.18	
45	20/1	MICROWAVE		0.8		46	20/1	RECEPTACLE		0.18	
47	20/1	HOOD			0.6	48	20/1	RECEPTACLE			0.18
49	50/2	ICE	3.6			50	20/1	RECEPTACLE	0.18		
51				3.6		52	20/1	RECEPTACLE		0.72	
53	20/2	SPACE			0	54	20/1	SPACE			0
55			0			56	20/2	GRILLE	1.04		
57	20/2	KEF-1		0.828		58				1.04	
59					0.828	60	40/3	RTU-1			3.6
61	20/2	KSF-1	0.96			62			3.6		
63				0.96		64				3.6	
65	100/3	FUEL SYSTEM			7.21	66	40/3	RTU-2			3.6
67			7.21			68			3.6		
69					7.21	70				3.6	
71	20/1	SPACE			0	72	20/3	SPACE			0
73	20/1	SPACE	0			74			0		
75	20/1	SPACE		0		76				0	
77	20/1	SPACE			0	78	20/1	SPACE			0
79	20/1	SPACE	0			80	20/1	SPACE			0
81	50/2	SELF SERVICE		3.6		82	20/1	SPACE		0	
83					3.6	84	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									32.6	39.7	34.5
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			2.51	3.13	(125%)	MOTORS			99.1	99.1	(100%)
LARGEST MOTOR			21.6	5.4	(25%)	RECEPTACLES			5.12	5.12	(50%>10)
						TOTAL LOAD				113	
						BALANCED 3-PHASE LOAD				313 A	

ONE LINE NOTES

- IN ACCORDANCE WITH NEC ARTICLE 110.16. ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN PERSONNEL OF POTENTIAL ARC FLASH HAZARDS. THIS SHALL BE FURNISHED FROM THE FACTORY.
- IN ACCORDANCE WITH NEC ARTICLE 110.24. THE SERVICE EQUIPMENT SHALL BE FIELD MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT ALONG WITH THE DATE THE CALCULATION WAS PERFORMED.
- ALL WORKING SPACE REQUIREMENTS AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC SHALL BE STRICTLY ADHERED TO BY ALL TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE TO USE THE INFORMATION PROVIDED IN THE SHORT CIRCUIT AND COORDINATION STUDY TO VERIFY THAT SETTINGS ON ADJUSTABLE TRIP OVERCURRENT DEVICES MATCH THE RECOMMENDATIONS OF THE SHORT CIRCUIT AND COORDINATION STUDY.
- IN ACCORDANCE WITH NEC 230.8 RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND DISTRIBUTION SYSTEM SHALL BE SEALED IN ACCORDANCE WITH 300.5 G.
- ALL PANELS SHALL HAVE COPPER BUSSING.
- ALL PANELBOARDS SHALL BE RATED FOR BASED ON SEISMIC CATEGORY. SEE STRUCTURAL PLANS FOR CATEGORY DETAILS.
- CONTRACTOR SHALL PROVIDE SPARE BREAKERS AS INDICATED ON PANEL SCHEDULES.
- REFER TO MAIN GROUNDING BUS DETAIL FOR MAIN GROUNDING DIAGRAM.
- ALL PANELBOARDS TO BE EASY TRIM TYPE.

SERVICE ENTRY NOTES:

- UNDERGROUND SERVICE LATERAL CONDUCTORS MUST BE PROTECTED FROM DAMAGE IN ACCORDANCE WITH ARTICLE 300.5. UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18" OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON PLACED 12" ABOVE THE UNDERGROUND INSTALLATION. UNLESS LOCAL CODE DICTATES OTHERWISE, PVC SERVICE ENTRANCE LATERAL RACEWAY MUST BE BURIED AT LEAST 18" TO TOP OF THE RACEWAY UNLESS BELOW A COVERING OF AT LEAST 2" OF CONCRETE. RACEWAY COVERED UNDER 2" OF CONCRETE MUST BE BURIED AT LEAST 12" TO TOP OF RACEWAY.
- BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CORROSIVE MATERIAL OR ANYTHING ELSE THAT MAY CAUSE DAMAGE TO RACEWAYS OR CABLES IS NOT PERMITTED.
- CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT ONE OR BOTH ENDS. SPARE OR UNUSED RACEWAYS SHALL ALSO BE SEALED. SEALANTS SHALL BE IDENTIFIED FOR USE WITH THE CABLE, INSULATION, SHIELD OR OTHER COMPONENTS.
- PARALLEL SERVICE CONDUCTORS MUST BE THE SAME LENGTH, HAVE THE SAME CONDUCTOR MATERIAL, BE THE SAME SIZE, HAVE THE SAME INSULATION TYPE, AND BE TERMINATED IN THE SAME MANNER. IN ADDITION THE RACEWAYS OR CABLES MUST HAVE THE SAME PHYSICAL CHARACTERISTICS.

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REVISIONS	No.	Date	Description

SPRINGFIELD C-STORE
 1411 E. SUNSHINE ST.
 SPRINGFIELD, MISSOURI

GENERAL NOTES

- ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE NEC (NATIONAL ELECTRICAL CODE) AND THE REQUIREMENTS OF ANY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- SEE PANEL SCHEDULES FOR ADDITIONAL CIRCUIT, CONDUIT AND LOAD INFORMATION.
- WHERE EXPOSED AND SUBJECT TO DAMAGE, CONDUIT SHALL BE GRC UP TO 10' AFF.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" AND MINIMUM WIRING SIZE SHALL BE #12AWG.
- ALL CIRCUIT WIRING SHALL BE THHN TYPE WIRING.
- MULTIPLE CIRCUITS MAY BE COMBINED INTO A SINGLE CONDUIT ONLY BY APPLYING NEC ARTICLE 310.15.B.2. CONDUCTOR SIZES LISTED ON THE PANEL SCHEDULES DO NOT ACCOUNT FOR THE COMBINING OF CIRCUITS. SLIGHT MODIFICATIONS TO DESIGNED CIRCUITRY ARE PERMITTED PROVIDED CIRCUIT LOADING, DERATING, BALANCE, AND VOLTAGE DROP ARE TAKEN INTO CONSIDERATION. ALL MODIFICATIONS MUST BE DILIGENTLY NOTED ON THE "AS-BUILT" DRAWING SET.
- ALL BRANCH CIRCUIT SHALL BE INSTALLED USING EMT CONDUIT WITH COMPRESSION FITTINGS. IN ENGINEER/ARCHITECT APPROVED AREAS, MC CABLE SHALL BE PERMITTED, UOI.
- MC CABLE SHALL BE SUPPORTED AND SECURED AT INTERVALS NOT EXCEEDING 6' AND WITHIN 12" OF EVERY BOX, CABINET, FITTING OR OTHER CABLE TERMINATION UNLESS OTHERWISE PERMITTED BY NEC. SEE ARTICLE 330 FOR FURTHER INFORMATION.
- EMT SHALL BE SECURELY FASTENED IN PLACE AT LEAST EVERY 10'. IN ADDITION, EACH EMT RUN SHALL BE SECURELY FASTENED WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, DEVICE BOX, CABINET, CONDUIT BODY. SEE ARTICLE 358 FOR FURTHER INFORMATION.
- DO NOT SUPPORT RACEWAYS, BOXES, CABINETS, FITTINGS, CABLE ASSEMBLIES OR FIXTURES TO THE CEILING GRID SUPPORT SYSTEM. INDEPENDENT SUPPORT WIRES MAY BE USED AS A SOLE MEANS OF SUPPORT PROVIDED THEY ARE SECURED AT BOTH ENDS AND DISTINGUISHABLE BY COLOR, TAGGING OR OTHER EFFECTIVE MEANS FOR THE CEILING GRID SUPPORT SYSTEM.
- ALL 208/120 VOLT WIRING SHALL ADHERE TO A "BLACK-RED-BLUE" COLOR CODE.
- AT LEAST 6" OF FREE CONDUCTOR, SHALL BE LEFT AT EACH OUTLET, JUNCTION, AND SWITCH POINT FOR SPLICES OR THE CONNECTION OF FIXTURES OR DEVICES WITH THE EXCEPTION OF CONDUCTORS THAT ARE NOT SPLICED OR TERMINATED AT THE OUTLET, JUNCTION, OR SWITCH POINT.
- ALL CIRCUIT DESIGNATIONS SHALL BE MARKED ON JUNCTION BOXES WHERE THEY SPLICE OR PASS THROUGH.
- ALL CEILING MOUNTED 4" SQUARE JUNCTION BOXES SHALL BE 2 1/8" DEEP. DEVICE BOXES (4" SQUARE AND PLASTER RING) MAY BE 1-1/2" DEEP.
- THE NUMBER OF CONDUCTORS IN A JUNCTION BOX SHALL BE SUBJECT TO THE PROVISIONS OF NEC ARTICLE 314.16.
- IN WALLS OR CEILINGS WITH A SURFACE OF CONCRETE, TILE, GYPSUM, PLASTER, OR OTHER NONCOMBUSTIBLE MATERIAL, BOXES SHALL BE INSTALLED SO THAT THE FRONT EDGE OF THE BOX (OR PLASTER RING) WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". (NEC 314.20).
- BOXES SHALL BE INSTALLED SO THE WIRING CONTAINED WITHIN IS ACCESSIBLE.
- METAL BOXES SHALL BE GROUNDED BY AN APPROVED MEANS.
- WHERE NAILS OR SCREWS ARE LIKELY TO PENETRATE EMT OR MC CABLE, A STEEL SLEEVE, STEEL PLATE, OR STEEL CLIP NOT LESS THAN 1/16" THICKNESS SHALL BE USED TO PROTECT THE CABLE OR TUBING.
- MOUNTING HEIGHTS OF WALL OUTLETS AFF TO BOTTOM SHALL BE AS FOLLOWS, UOI ON PLANS: SWITCHES-48", RECEPTACLES & PHONE/DATA OUTLETS IN OFFICE AREAS-18".
- WHERE DEVICES ARE SHOWN TO BE INSTALLED ABOVE CASEWORK OR COUNTERS, EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE CASEWORK CONTRACTOR BEFORE ROUGH-IN WORK IS COMPLETED.
- WHERE A GFCI RECEPTACLE IS USED, THE RECEPTACLE SHALL NOT BE LOCATED TO CONCEAL THE RECEPTACLE. IT MUST BE READILY ACCESSIBLE. PROVIDE GFCI BREAKER IF RECEPTACLE AS ALTERNATIVE PROTECTION.

GENERAL EQUIPMENT NOTES

- CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS AS REQUIRED FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR ALL MECHANICAL CONTROL PANELS AS REQUIRED. COORDINATE WITH MC.
- PROPER CLEARANCE MUST BE MAINTAINED AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.26.
- PANELBOARDS, STARTERS, DISCONNECT SWITCHES, ETC. SHALL BE INSTALLED SUCH THAT THE TOP OF THE EQUIPMENT IS 72" AFF, UOI.
- REFER TO THE MECHANICAL/PLUMBING DRAWINGS TO VERIFY EQUIPMENT LOCATIONS AND COORDINATION OF STARTERS, DISCONNECT SWITCHES, THERMOSTATS, CONTROL WIRING, DUCT DETECTORS, ETC.

GENERAL NOTES (CONT)

- ALL MAJOR FEEDERS SHALL BE INSTALLED UNDER SLAB/UNDERGROUND USING SCHEDULE 40 PVC WHERE ACCEPTABLE.
- ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.
- PROVIDE PROPER CONDUIT SEAL OFF AND INSULATION AT WALL PENETRATIONS BETWEEN AREAS OF DIFFERENT TEMPERATURES.
- THE METHOD OF INSTALLING CONDUIT THROUGH INSULATED WALL SHALL BE AS FOLLOWS
 - HOLE SHALL BE CUT NEAT AT 1/4" LARGER THAN CONDUIT.
 - CONDUIT SHALL BE OF A PVC TYPE WHICH WILL EXTEND BEYOND WALL FOR 1" ON EACH FACE.
 - AFTER WIRE HAS BEEN INSTALLED, CONDUIT SHALL BE FILLED SOLID WITH DUCT SEAL PLASTIC FILLER.
 - AFTER ALL WIRING IS COMPLETED, INSULATION CONTRACTOR SHALL SEAL CONDUIT WITH URETHANE FOAM AND VAPOR SEAL AROUND OUTSIDE OF CONDUIT
- REFER TO ARTICLE 300.22 FOR WIRING IN AIR HANDLING (PLENUM) SPACES.
- ALL SPLICES SHALL BE MADE UP TIGHT USING APPROVED MATERIALS AND "PULL TESTED" FOR INTEGRITY.
- FLEXIBLE CORDS/CABLES SHALL BE CONNECTED TO DEVICES AND/OR FITTINGS SO THAT TENSION IS NOT TRANSMITTED TO JOINTS OR TERMINALS.
- AN ENCLOSURE MOUNTED TO STRUCTURAL OR SUPPORTING ELEMENTS OF A SUSPENDED CEILING SHALL BE NOT MORE THAN 100 CUBIC INCHES IN SIZE AND SHALL BE SECURELY FASTENED TO THE CEILING GRID BY AN APPROVED MEANS.
- RACEWAY CONNECTIONS TO TRANSFORMERS OR OTHER VIBRATING EQUIPMENT SHALL BE MADE USING AN APPROVED FLEXIBLE CONNECTION, CONTRACTOR SHALL PROVIDE PUSHBUTTON FOR LOWERING CONTROL OF PROJECTOR LIFT AND MOTORIZED SCREEN. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS REQUIRED FOR THIS OPERATION. COORDINATE WITH AV VENDORS.
- ALL RECEPTACLES IN RESTROOM AREAS SHALL HAVE GFCI PROTECTION (GFCI BREAKER OR GFCI RECEPTACLE).
- PLAN LAYOUT SHOWN IN THESE DOCUMENTS ARE SCHEMATIC AND ARE INTENDED TO ILLUSTRATE DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN INCLUDING BUT NOT LIMITED TO SERVICE ENTRY, PANEL SIZE, AND CIRCUITRY.
- THE SCOPE OF WORK INDICATED SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, THE STANDARD ELECTRIC CODE AND THE NEC (LATEST APPLICABLE EDITION).
- THE ELECTRICAL WORK SHOWN ON THE SUBMITTED PLANS SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL SECURE AN ELECTRICAL PERMIT FOR THEIR PORTION OF THE WORK PRIOR TO INSTALLATION.
- COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.
- CONFIRM ELECTRICAL REQUIREMENTS FOR ANY OWNER SUPPLIED ITEMS PRIOR TO WIRING OR FINAL CIRCUITING.
- SUBMIT CUT SHEETS FOR ELECTRICAL FIXTURES TO OWNER/ARCHITECT.
- OUTLETS OF ANY TYPE SHALL NEVER BE INSTALLED BACK TO BACK. OUTLETS IN RATED WALL MUST BE INSTALLED 24" APART.
- ALL LOW VOLTAGE WIRING, WITH EXCEPTION OF THE FIRE ALARM SYSTEM, IS THE OWNER'S RESPONSIBILITY.
- CONTRACTOR SHALL PROVIDE J-HOOKS ON 24" SPACING ABOVE CEILING AS REQUIRED FOR NEW DATA CABLING. COORDINATE WITH OWNER.
- IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR PROPER OPERATION OF ELECTRONIC LOCKING DOORS. DOOR LOCKS SHALL RELEASE UPON FIRE ALARM ACTIVATION. PROVIDE RELAYS FROM DOOR CONTROLLER TO FIRE ALARM CONTROL PANEL AS REQUIRED. COORDINATE ALL WORK WITH VENDOR.

GENERAL LIGHTING NOTES

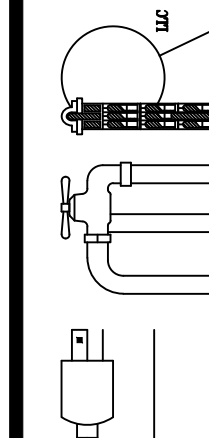
- SEE NEC ARTICLE 410 FOR MORE INFORMATION REGARDING LIGHTING FIXTURES.
- LIGHTING CIRCUITS ABOVE THE BAR JOIST OR IN CONCEALED AREAS MAY BE FLEXIBLE WIRING UOI.
- LIGHT SWITCHES SHALL BE MOUNTED AT 48" TO THE BOTTOM OF THE BOX, UOI.
- LAY IN TYPE LIGHTING FIXTURES SHALL BE SUPPORTED BY EITHER OF TWO METHODS:
 - THEY SHALL BE SECURELY ATTACHED TO THE CEILING GRID BOLTS, SCREWS, RIVETS, OR LISTED CLIPS IDENTIFIED FOR USE WITH THE CEILING MANUFACTURER
 - THEY SHALL BE ATTACHED TO THE BUILDING STRUCTURE BY AN INDEPENDENT MEANS (CEILING WIRE) AND COLOR CODED TO DISTINGUISH THIS SUPPORT FROM THE CEILING GRID SUPPORT SYSTEM.
- A RECESSED LIGHTING FIXTURE THAT IS NON-TYPE IC SHALL HAVE ALL RECESSED PARTS SPACED NOT LESS THAN 1/2" FROM COMBUSTIBLE MATERIALS.
- ALL 2' X 2' LIGHT FIXTURES SHALL BE ORIENTED SUCH THAT LONG EDGE OF LAMPS RUN THE SAME DIRECTION THROUGHOUT THE FACILITY.
- ALL EMERGENCY/EGRESS FIXTURES AND SIGNS MOUNTED ABOVE DOORWAYS SHALL SHALL CENTER MTD ON WALL ABOVE DOOR HEADER, UOI.
- OUTLET BOXES OR FITTINGS INSTALLED AS REQUIRED BY ARTICLE 314.23 SHALL BE PERMITTED TO SUPPORT LIGHTING FIXTURES.
- DURING INSTALLATION, IF AN OBVIOUS CONFLICT IS DISCOVERED BETWEEN LIGHTING FIXTURES AND OTHER BUILDING ELEMENTS (STRUCTURE, HVAC, PLUMBING, SPRINKLER, ETC.) THE CONTRACTOR HAS THE AUTHORITY TO MAKE MINOR ADJUSTMENTS TO THE FIXTURE LAYOUT. OTHER ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
- LIGHT FIXTURES HAVE BEEN SELECTED TO BE OF PROPER CONSTRUCTION AND LISTED FOR THE ENVIRONMENT. ANY DEVIATION IN THE TYPE OR LOCATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS (WHERE AVAILABLE) FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.
- LIGHT FIXTURES SHALL NOT BE USED AS A RACEWAY, UNLESS LISTED AND MARKED FOR THAT PURPOSE.
- THESE DRAWINGS SHOW THE INTENT OF THE DESIGNER. EVERY WIRE IS NOT ILLUSTRATED (EXAMPLES: WIRING BETWEEN 3-WAY SWITCHES, WIRING FOR AN EMERGENCY BALLAST, ETC.) ON THESE DRAWINGS.
- THE INSTALLER SHOULD REFER TO THE DETAILS FOR THE PROPER WIRING OF OCCUPANCY SENSORS. COORDINATE WITH VENDOR.
- CONDUITS, LIGHTING FIXTURES, ETC SHALL NOT BE MOUNTED DIRECTLY BELOW SMOKE/HEAT VENTS, SPRINKLER HEADS, EVAPORATOR VENTS OR SKY LIGHTS.
- THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL FIXTURES NOT PRE-APPROVED BY ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID.
- ALL OCCUPANCY SENSORS SHALL BE SET WITH A 10 MINUTE TIME OUT, WITH THE EXCEPTION OF RESTROOM SENSORS. ALL RESTROOM SENSORS SHALL BE SET WITH A 20 MINUTE TIME OUT.
- CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR PROPER OPERATION OF FIXTURES.
- CONTRACTOR SHALL REFER TO LATEST ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- SHORT DASHED CIRCUITS REPRESENT CIRCUITS WHICH ARE EMERGENCY OR UN-SWITCHED NIGHT LIGHT CIRCUITS. EACH FIXTURE WITH AN EMERGENCY BALLAST REQUIRES A WIRE WHICH IS CONSTANTLY HOT (NOT SWITCHED) FOR PROPER OPERATION. IF NIGHT LIGHT CIRCUIT, CIRCUIT FIXTURES AHEAD OF ANY SWITCHES OR SENSORS.
- ALL LIGHTING LAYOUTS ARE BASED ON REFLECTED CEILING PLANS. DO NOT ALTER THE NUMBER OF FIXTURES INDICATED ON DRAWINGS. SEE FIXTURE SCHEDULE FOR APPLICABLE NOTES.
- CONTRACTOR SHALL PROVIDE POWER PACKS FOR OCCUPANCY SENSORS AS REQUIRED BY MANUFACTURER. PROVIDE 120V CIRCUITS FROM NEAREST 120V PANEL AS REQUIRED.
- CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR OPERATION OF OCCUPANCY SENSORS, INCLUDING FOR USE WITH MECHANICAL LOADS - EXHAUST FANS.
- CONTRACTOR SHALL CONCEAL ALL WIRES AND DEVICES WHERE POSSIBLE. IN AREAS WHERE CONCEALMENT IS NOT PRACTICAL, PROVIDE WIREMOLD PAINTED TO MATCH FINISHES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.

GENERAL GROUNDING NOTES

- ALL CONNECTIONS OF WIRE-TO-WIRE, WIRE-TO-ROD, AND WIRE-TO-STEEL SHALL BE MADE EXOTHERMICALLY USING APPROPRIATE MOLDS OR APPROVED CLAMPS.
- METAL RACEWAYS FOR SERVICE CONDUCTORS AND EQUIPMENT SHALL BE GROUNDED. A METAL ELBOW THAT IS INSTALLED IN AN UNDERGROUND INSTALLATION OF RIGID NON-METALLIC CONDUIT AND IS ISOLATED FROM POSSIBLE CONTACT BY A MINIMUM COVER OF 18" TO ANY PART OF THE ELBOW SHALL NOT BE REQUIRED TO BE GROUNDED.
- NON-CURRENT-CARRYING CONDUCTIVE MATERIALS, SUCH AS METAL CONDUIT, JUNCTION BOXES, ETC., ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE GROUNDED.
- THE NON-CURRENT-CARRYING METAL PARTS OF SERVICE EQUIPMENT (RACEWAYS AND ENCLOSURES CONTAINING SERVICE CONDUCTORS, INCLUDING METER FITTINGS, BOXES, OR THE LIKE, INTERPOSED IN THE SERVICE RACEWAY OR ARMOR SHALL BE BONDED TOGETHER. BONDING SHALL APPLY AT EACH END AND TO ALL INTERVENING RACEWAYS, BOXES, AND ENCLOSURES BETWEEN THE SERVICE EQUIPMENT AND THE GROUNDING ELECTRODE. METHODS OF BONDING SHALL INCLUDE EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS, CONNECTIONS UTILIZING THREADED COUPLINGS OR THREADED BOSSES ON ENCLOSURES WHERE MADE UP WRENCH-TIGHT, OTHER APPROVED DEVICES, SUCH AS BONDING-TYPE LOCKNUTS AND BUSHINGS
- NONCONDUCTIVE COATINGS (SUCH AS PAINT, LACQUER, AND ENAMEL) ON EQUIPMENT TO BE GROUNDED SHALL BE REMOVED FROM THREADS AND OTHER CONTACT SURFACES TO ENSURE GOOD ELECTRICAL CONTINUITY OR BE CONNECTED BY MEANS OF FITTINGS DESIGNED SO AS TO MAKE SUCH REMOVAL UNNECESSARY.
- METAL RACEWAYS, CABLE TRAYS, ENCLOSURES, FRAMES, FITTINGS, AND OTHER METAL NON-CURRENT-CARRYING PARTS THAT ARE TO SERVE AS GROUNDING CONDUCTORS, WITH OR WITHOUT THE USE OF SUPPLEMENTARY EQUIPMENT GROUNDING CONDUCTORS, SHALL BE EFFECTIVELY BONDED WHERE NECESSARY TO ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY FAULT CURRENT LIKELY TO BE IMPOSED ON THEM.
- EXPOSED NON-CURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT LIKELY TO BECOME ENERGIZED SHALL BE GROUNDED UNDER ANY OF THE FOLLOWING CONDITIONS:
 - WHERE WITHIN 8' VERTICALLY OR 5' HORIZONTALLY OF GROUND OR GROUNDED METAL OBJECTS AND SUBJECT TO CONTACT BY PERSONS
 - WHERE LOCATED IN A WET OR DAMP LOCATION AND NOT ISOLATED
 - WHERE IN ELECTRICAL CONTACT WITH METAL
 - WHERE SUPPLIED BY A METAL-CLAD, METAL-SHEATHED, METAL-RACEWAY, OR OTHER WIRING METHOD THAT PROVIDES AN EQUIPMENT GROUND
 - WHERE EQUIPMENT OPERATES WITH ANY TERMINAL AT OVER 150 VOLTS TO GROUND
- ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE ROUTED TO ENSURE SHORTEST POSSIBLE CONDUCTOR LENGTH.
- BONDING JUMPERS MEETING THE OTHER REQUIREMENTS OF THIS ARTICLE SHALL BE USED AROUND CONCENTRIC OR ECCENTRIC KNOCKOUTS THAT ARE PUNCHED OR OTHERWISE FORMED SO AS TO IMPAIR THE ELECTRICAL CONNECTION TO GROUND. STANDARD LOCKNUTS OR BUSHINGS SHALL NOT BE THE SOLE MEANS FOR THE BONDING REQUIRED BY THIS SECTION.

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REVISONS	No.	Date	Description

PROJECT NUMBER
8061241
SCALE
AS SHOWN
SHEET NUMBER
E.003
DATE OF ORIGINAL ISSUE
2/18/22

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	cstore springfield
Project Type:	New Construction

Construction Site: c store piperton, Tennessee Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power: 1.0 credit

Area Category	B	C	D
	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts
1-Retail	2854	0.95	2723
			Total Allowed Watts = 2723

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B	C	D	E
	Lamps/ Fixture	# of Fixture	Fixture Watt.	(C X D)
1-Retail LED: LED Linear 20W:	1	27	39	1053
				Total Proposed Watts = 1053

Interior Lighting PASSES: Design 61% better than code

Interior Lighting Compliance Statement
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: cstore springfield Report date: 10/04/23
Data filename: _____ Page 3 of 18

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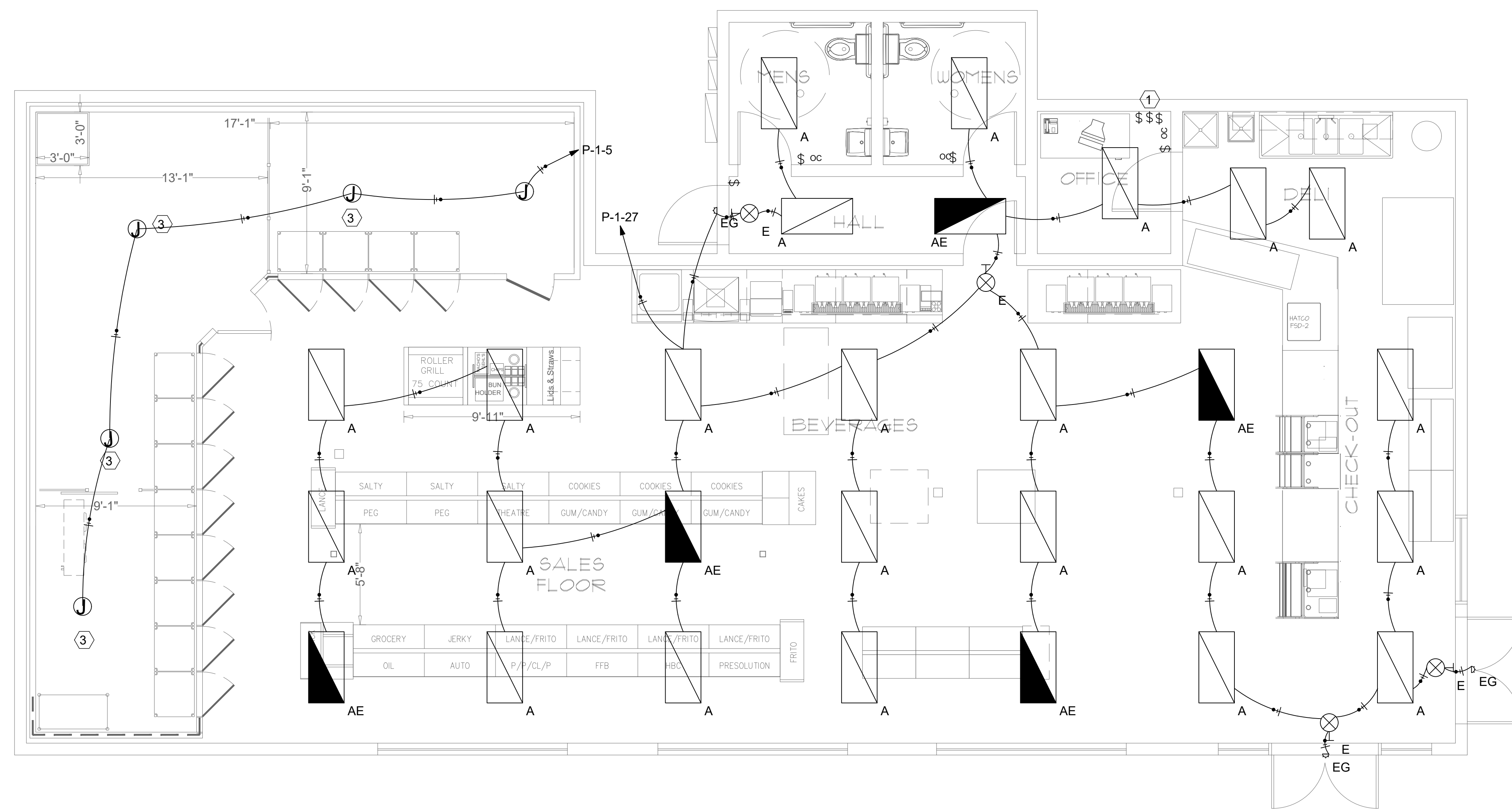
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REVISIONS	No.	Date	Description

SPRINGFIELD C-STORE
 1411 E. SUNSHINE ST.
 SPRINGFIELD, MISSOURI

PROJECT NUMBER
 8061241
 SCALE
 AS SHOWN
 SHEET NUMBER
E.201
 OF
 DATE OF ORIGINAL ISSUE
 2/18/22

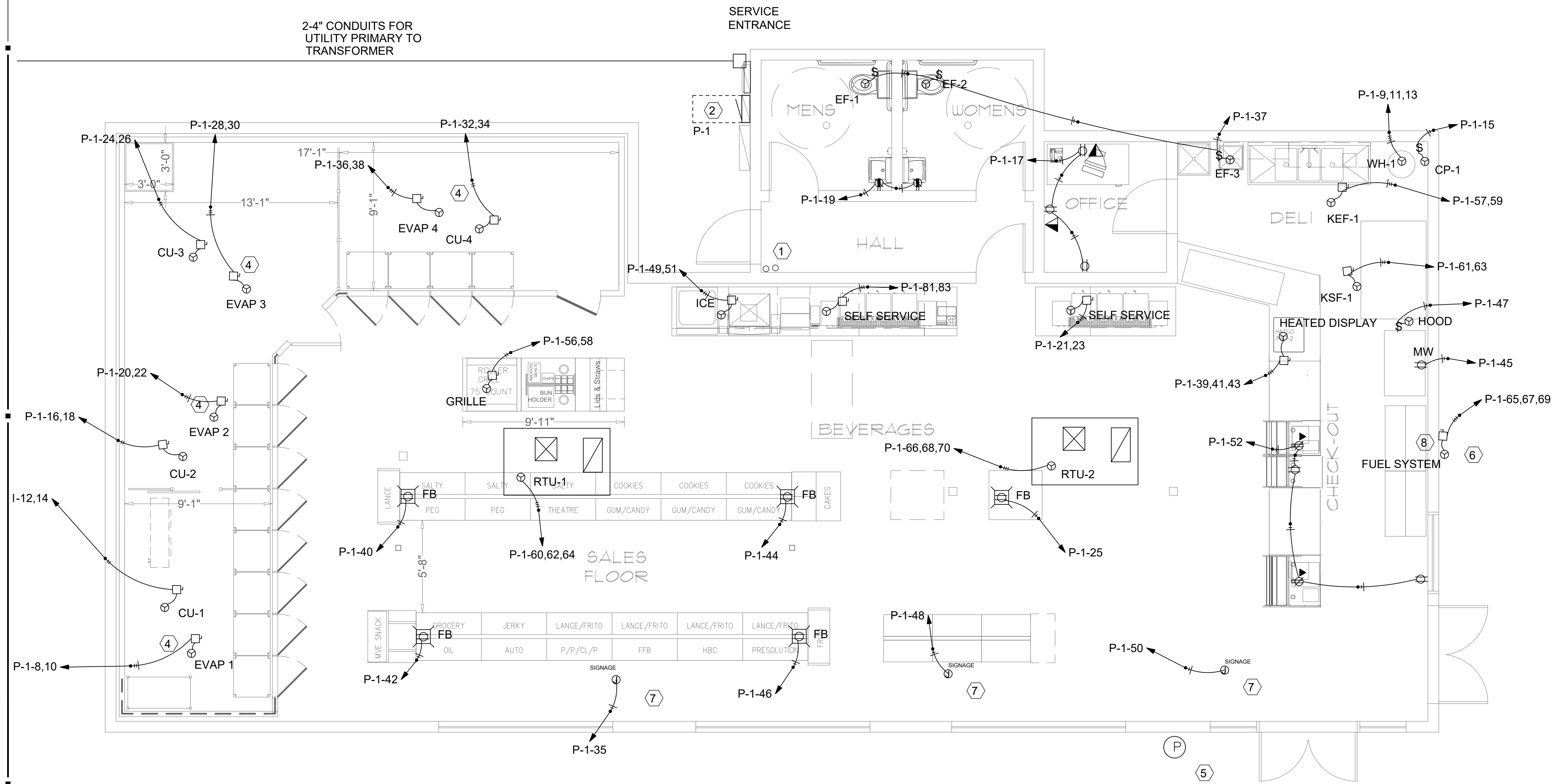


- KEY NOTES**
- ① COORDINATE LOCATION FOR LIGHT SWITCHES FOR FRONT OF HOUSE AND BACK OF HOUSE. TYP FOR 3
 - ② ROUTE CIRCUIT THRU TIME CLOCK PHOTOCELL
 - ③ PROVIDE POWER FOR LIGHTING IN COOLERS AND FREEZERS.
 - ④ COORDINATE LOCATION AND QUANTITY OF CANOPY FIXTURE WITH FUEL VENDOR LAYOUT AND EXTEND AS REQUIRED

- GENERAL NOTES:**
1. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AS REQUIRED FOR ALL MECH & PLBG EQUIPMENT. COORD EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGHIN.
 2. ALL HOMERUNS WHERE WIRE SIZE IS NOT SPECIFIED IS 12 AWG
 3. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EXTERIOR FIXTURES WITH ARCH ELEVATIONS.
 4. EXTERIOR LIGHTING AND SIGNAGE TO BE ROUTED THROUGH PHOTOCELL.
 5. COORDINATE ELEVATION AND LOCATIONS OF ALL OUTLETS IN ALL FINISH SPACES WITH OWNER.
 6. ALL EQUIPMENT SHALL HAVE DISCONNECTS RATED FOR THE AMPERAGE OF THE EQUIPMENT INSTALLED.

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

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KEY NOTES

- ① CONTRACTOR SHALL PROVIDE (2) 2" CONDUIT FOR COMMUNICATIONS STUBBED INTO BAY AS SHOWN. ROUTE ALL CONDUIT UNDERGROUND TO THE PROPERTY LINE.
- ② CONTRACTOR SHALL COORDINATE WITH OWNER FOR EXACT LOCATION OF PANEL WITH OWNER AND EXTEND WIRING AND CONDUIT AS REQUIRED
- ③ COORDINATE LOCATION FOR LIGHT SWITCHES FOR FRONT OF HOUSE AND BACK OF HOUSE. TYP FOR 3
- ④ VERIFY POWER REQUIREMENTS FOR COOLERS. PROVIDE DISCONNECTS FOR EACH PIECE OF EQUIPMENT PER CODE.
- ⑤ EMERGENCY PUSH BUTTON
- ⑥ PETROLEUM VENDOR MANAGEMENT SYSTEM, ROUGHIN AND EMERGENCY SHUT-OFF BUTTON.
- ⑦ PROVIDE POWER AS REQUIRED FOR SIGNAGE WITHIN STORE. COORDINATE QUANTITY AND LOCATION WITH OWNER.
- ⑧ RESERVE SPACE FOR FUEL DELIVERY DISTRIBUTION EQUIPMENT. INSTALL 100A/3P DISCONNECT. REFER TO FUEL SYSTEM VENDOR DRAWINGS FOR REQUIREMENTS. COORDINATE ALL ROUGHIN REQUIREMENTS

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AS REQUIRED FOR ALL MECH & PLBG EQUIPMENT. COORD EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGHIN.
2. ALL HOMERUNS WHERE WIRE SIZE IS NOT SPECIFIED IS 12 AWG
3. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL EXTERIOR FIXTURES WITH ARCH ELEVATIONS.
4. EXTERIOR LIGHTING AND SIGNAGE TO BE ROUTED THROUGH PHOTOCELL.
5. COORDINATE ELEVATION AND LOCATIONS OF ALL OUTLETS IN ALL FINISH SPACES WITH OWNER.
6. ALL EQUIPMENT SHALL HAVE DISCONNECTS RATED FOR THE AMPERAGE OF THE EQUIPMENT INSTALLED.
7. CONTRACTOR TO COORDINATE WITH OWNER AND EQUIPMENT PLANS PRIOR TO ROUGHIN AND PROVIDE ALL REQUIRED POWER, DISCONNECTS, AND CIRCUITS BASED ON REQUIREMENTS OF OWNER'S INSTALLED EQUIPMENT.

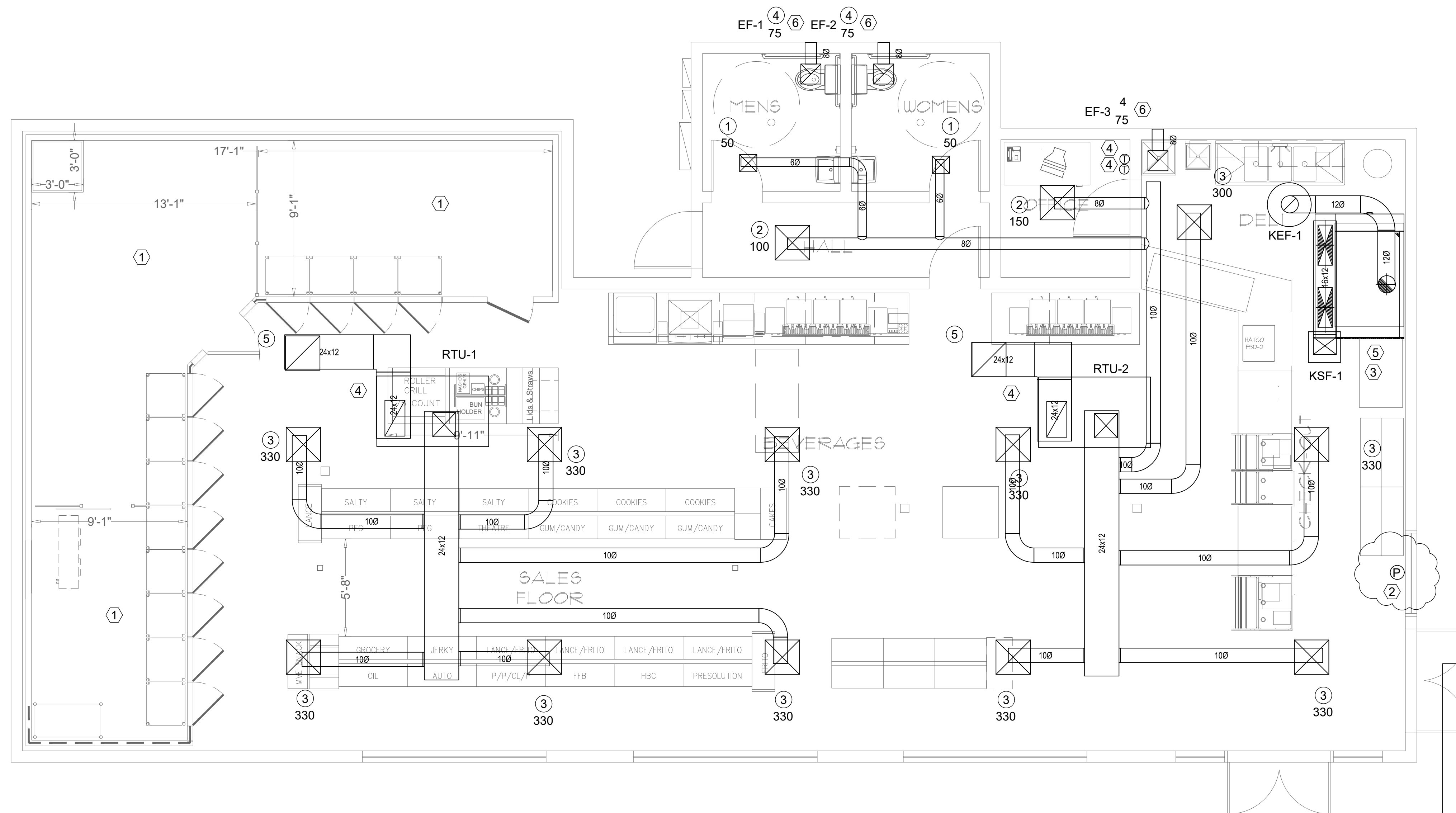
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REVISIONS	No.	Date	Description

SPRINGFIELD C-STORE
 1411 E. SUNSHINE ST.
 SPRINGFIELD, MISSOURI

PROJECT NUMBER: 8061241
 SCALE: AS SHOWN
 SHEET NUMBER: E.202
 OF: 218/22
 DATE OF ORIGINAL ISSUE: 2/18/22

FLOOR PLAN – ELECTRICAL POWER
 1/4" = 1'-0"



MOVEABLE APPLIANCES SHALL BE PROVIDED A MEANS FOR CORRECT ALIGNMENT WITH DISCHARGE NOZZLES

- KEYNOTES:**
- MECHANICAL CONTRACTOR SHALL INSTALL CONDENSERS, REFRIGERANT PIPING, AND ALL REQUIRED ACCESSORIES AND SUPPORTS PER MFR'S RECOMMENDATIONS. CONDENSERS ARE OFCI. REFRIGERANT PIPING AND SPECIALTIES TO BE PROVIDED BY CONTRACTOR.
 - PROVIDE MANUAL PULL STATION INTERLOCKED WITH FIRE SUPPRESSION SYSTEM AND GAS VALVE. ROUTE CABLE IN CONDUIT IN WALL.
 - INSTALL DUCT AND HOOD PER NFPA 96. PROVIDE SS SKIRT FROM TOP OF HOOD TO CEILING
 - PROVIDE DUCT MOUNTED REMOTE SENSOR IN RETURN DUCTWORK OF UNIT. INTERLOCK WITH THERMOSTAT ON WALL. VERIFY THERMOSTAT WITH OWNER PRIOR TO ROUGHING IN.
 - ROUTE EAD FROM EF TO HOOD. EAD TO BE WELDED STAINLESS STEEL. SLOPE EAD FROM EF TO HOOD.
 - ROUTE 6"Ø EAD FROM FAN THRU EXTERIOR WALL WITH 8X8 BRICK VENT WITH BACK DRAFT DAMPER



**COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate**

Project Information

Energy Code: 2018 IECC
 Project Title: cstore springfield
 Location: Springfield, Missouri
 Climate Zone: 4a
 Project Type: New Construction

Construction Site: c store piperton, Tennessee
 Owner/Agent: _____
 Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
1	HVAC System (Unknown): Heating: 1 each - Duct Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 80.00% Ec, Required Efficiency: 80.00 % Ec Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 14.00, Required Part Load Efficiency = 0.00

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

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REVISIONS	No.	Date	Description

SPRINGFIELD C-STORE
 1411 E. SUNSHINE ST.
 SPRINGFIELD, MISSOURI

FLOOR PLAN — MECHANICAL
 1/4" = 1'-0"

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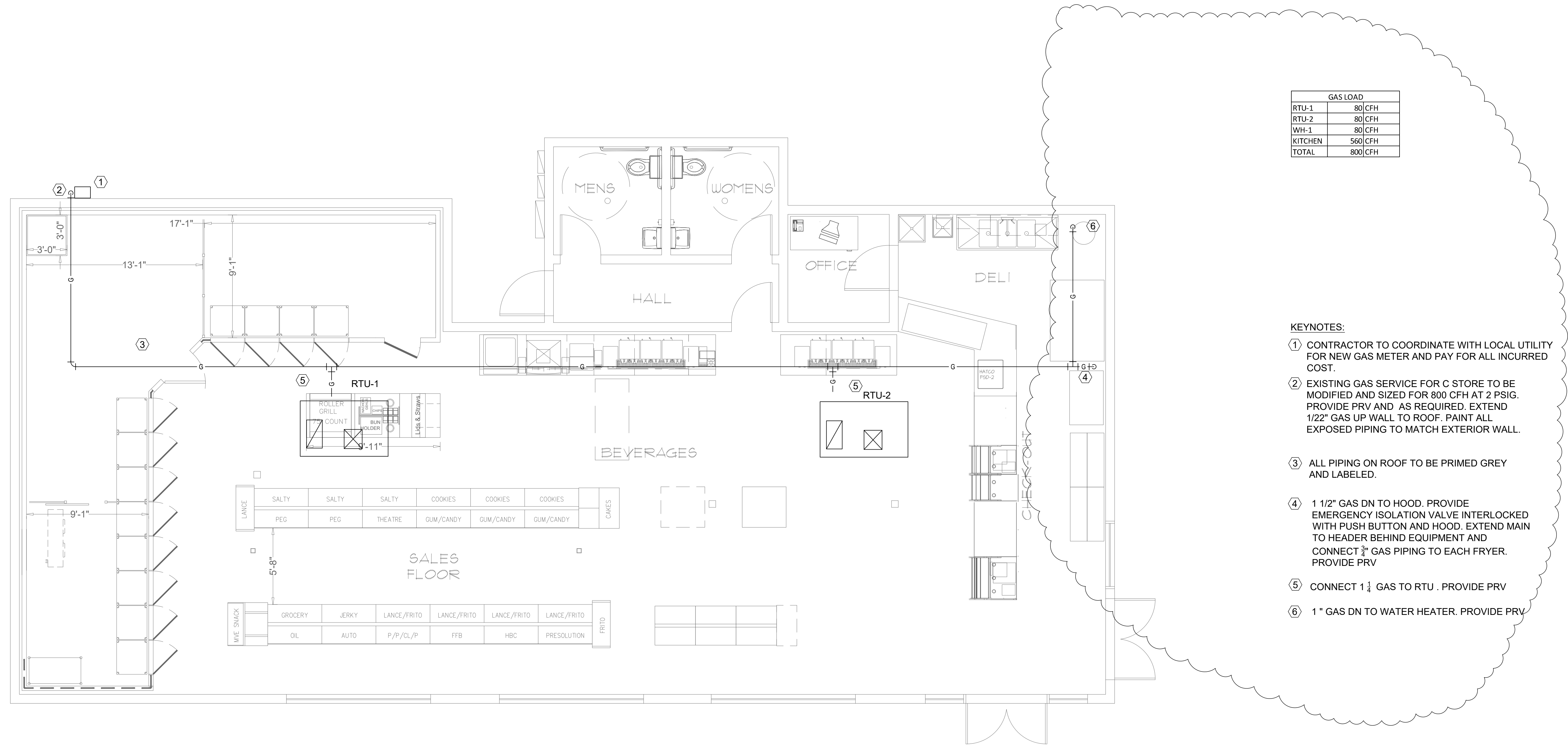
REVISIONS	
No.	Description

PROJECT NUMBER
 8061241
 SCALE
 AS SHOWN
 SHEET NUMBER
M.102
 OF
 DATE OF ORIGINAL ISSUE
 2/18/22

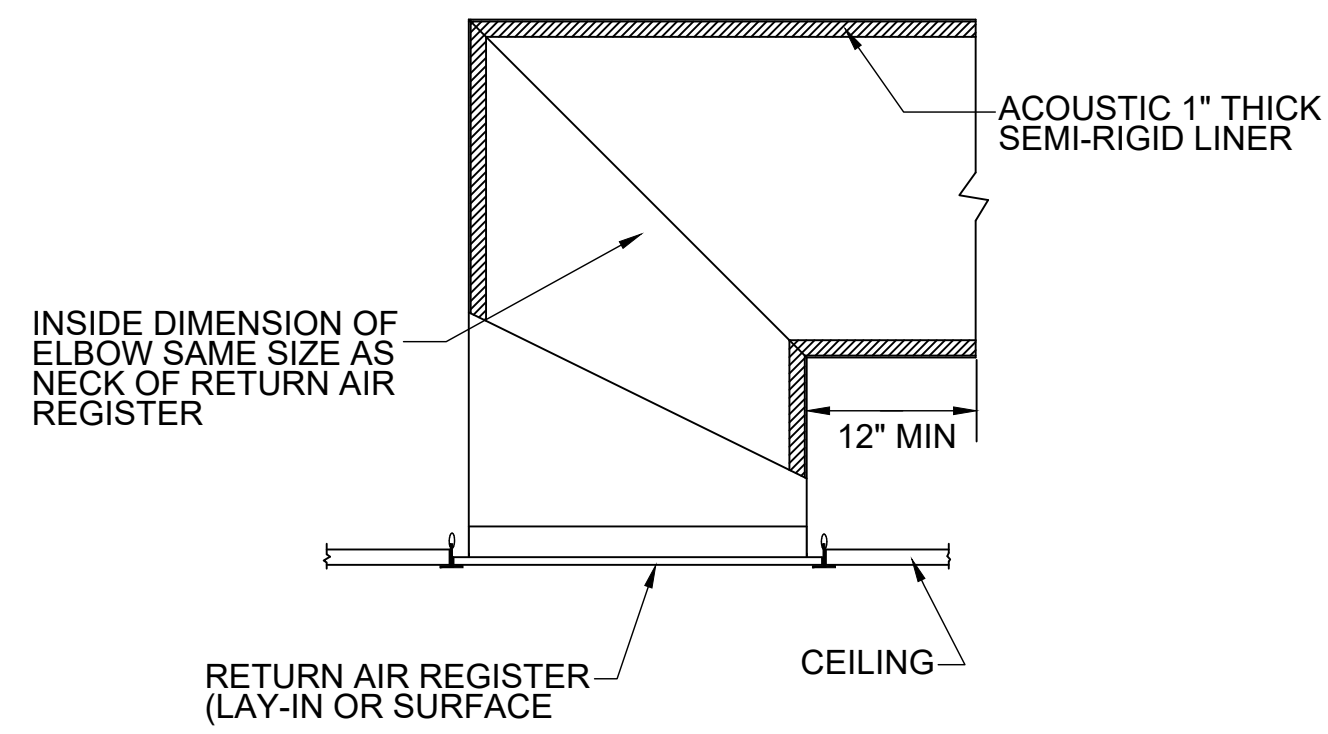
SPRINGFIELD C-STORE
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GAS LOAD	
RTU-1	80 CFH
RTU-2	80 CFH
WH-1	80 CFH
KITCHEN	560 CFH
TOTAL	800 CFH

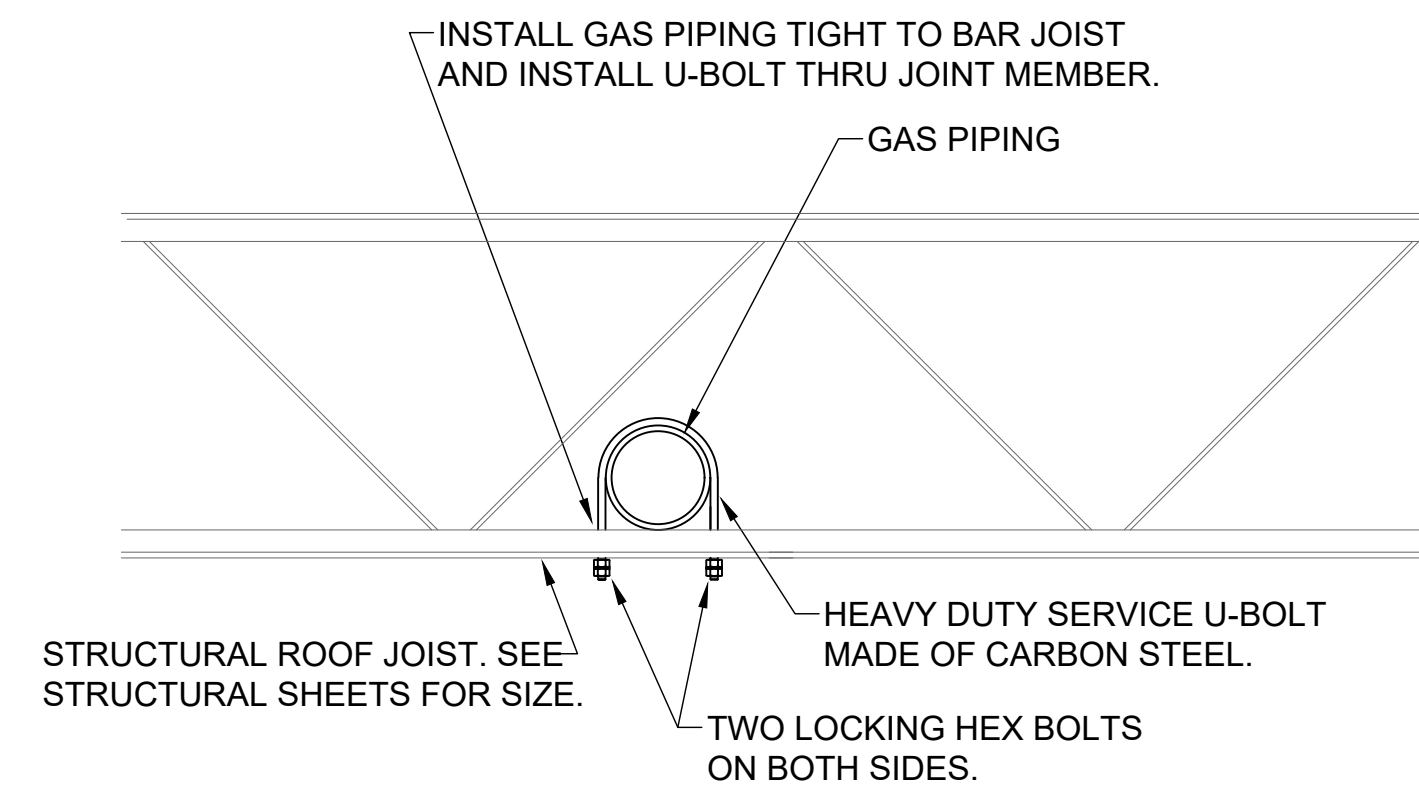
- KEYNOTES:**
- CONTRACTOR TO COORDINATE WITH LOCAL UTILITY FOR NEW GAS METER AND PAY FOR ALL INCURRED COST.
 - EXISTING GAS SERVICE FOR C STORE TO BE MODIFIED AND SIZED FOR 800 CFH AT 2 PSIG. PROVIDE PRV AND AS REQUIRED. EXTEND 1/22" GAS UP WALL TO ROOF. PAINT ALL EXPOSED PIPING TO MATCH EXTERIOR WALL.
 - ALL PIPING ON ROOF TO BE PRIMED GREY AND LABELED.
 - 1 1/2" GAS DN TO HOOD. PROVIDE EMERGENCY ISOLATION VALVE INTERLOCKED WITH PUSH BUTTON AND HOOD. EXTEND MAIN TO HEADER BEHIND EQUIPMENT AND CONNECT 3/4" GAS PIPING TO EACH FRYER. PROVIDE PRV
 - CONNECT 1 1/4" GAS TO RTU . PROVIDE PRV
 - 1" GAS DN TO WATER HEATER. PROVIDE PRV



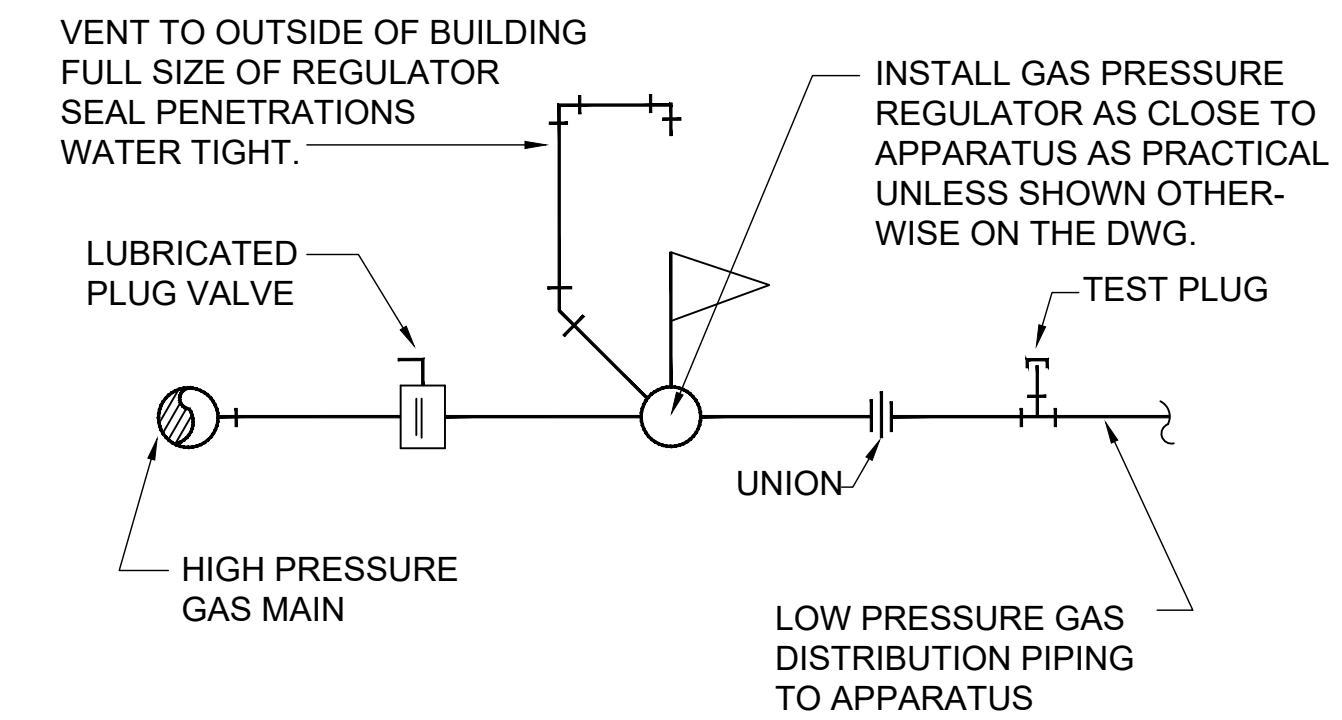
FLOOR PLAN – MECHANICAL PIPING
 1/4" = 1'-0"



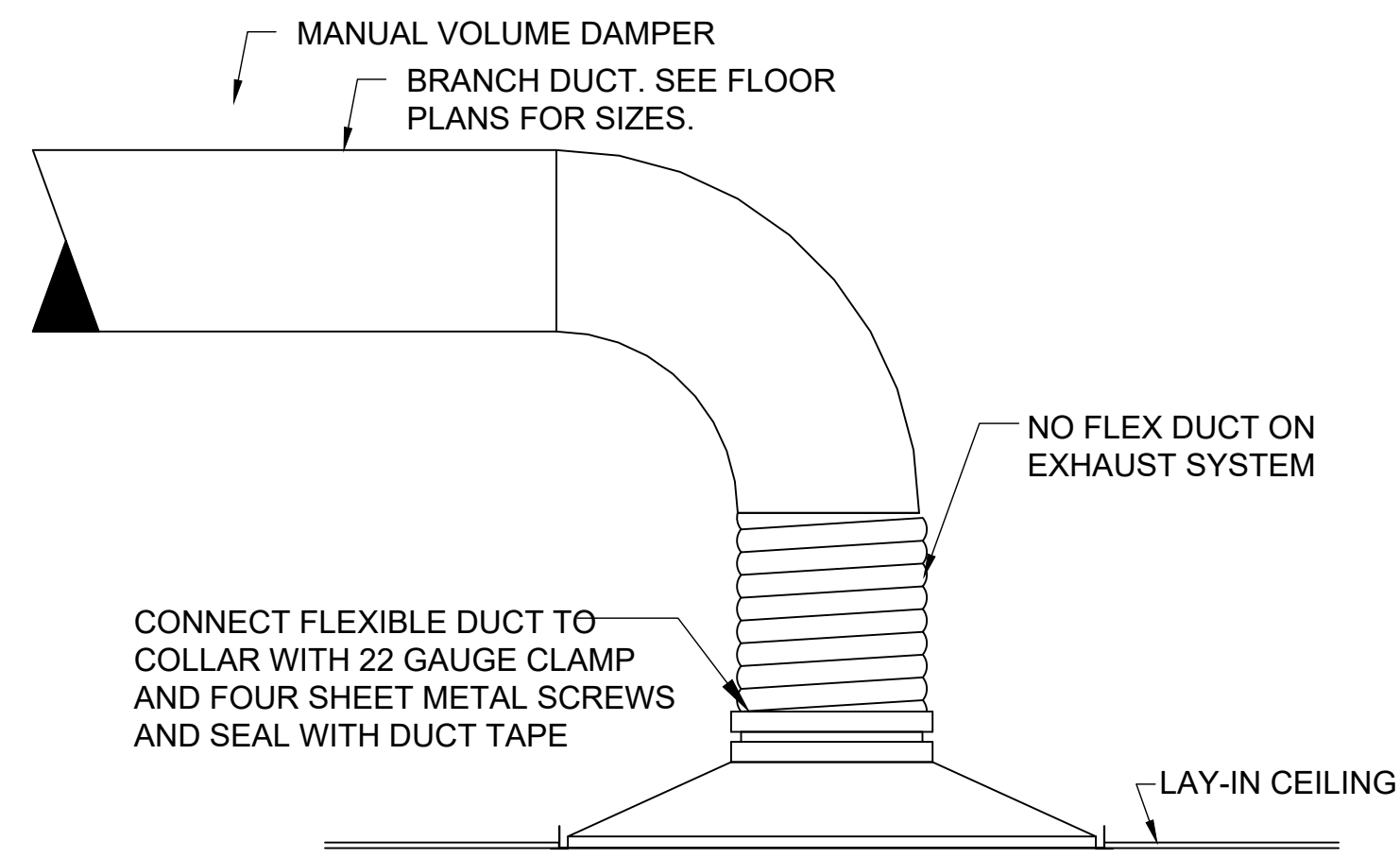
1 Return Air Register With Acoustic Elbow
Not To Scale



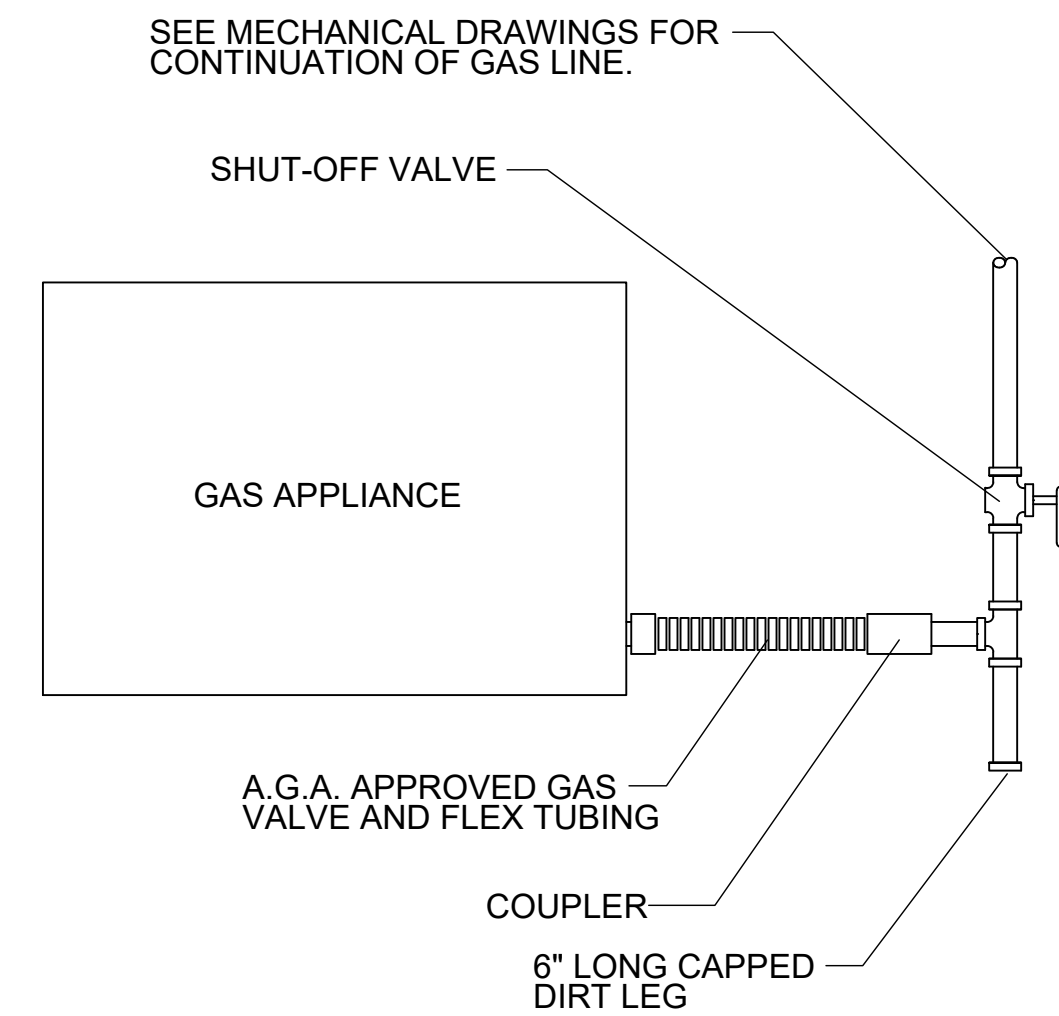
2 Seismic Gas Support Detail
Not To Scale



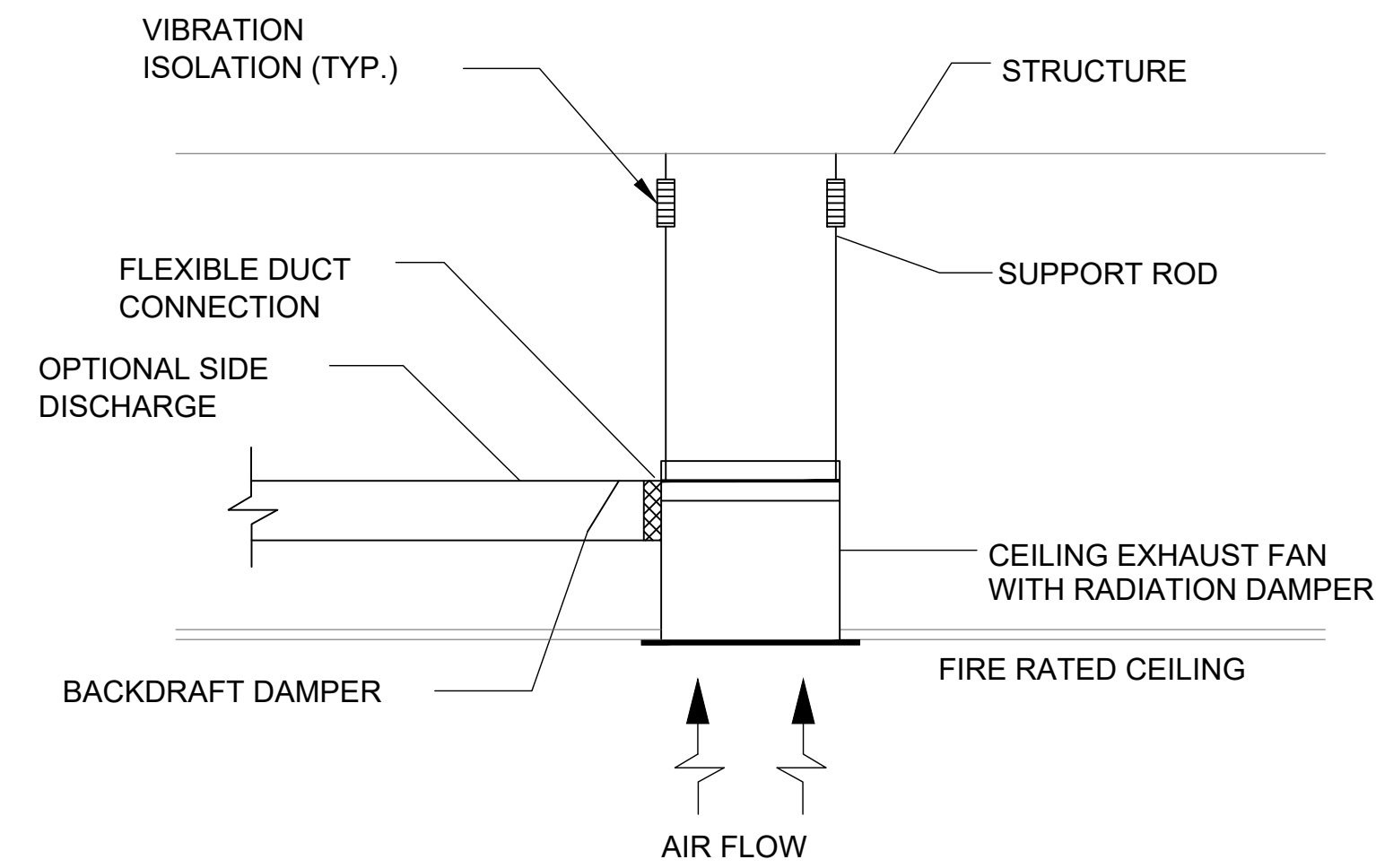
3 Gas Press. Regulating Piping Schematic
Not To Scale



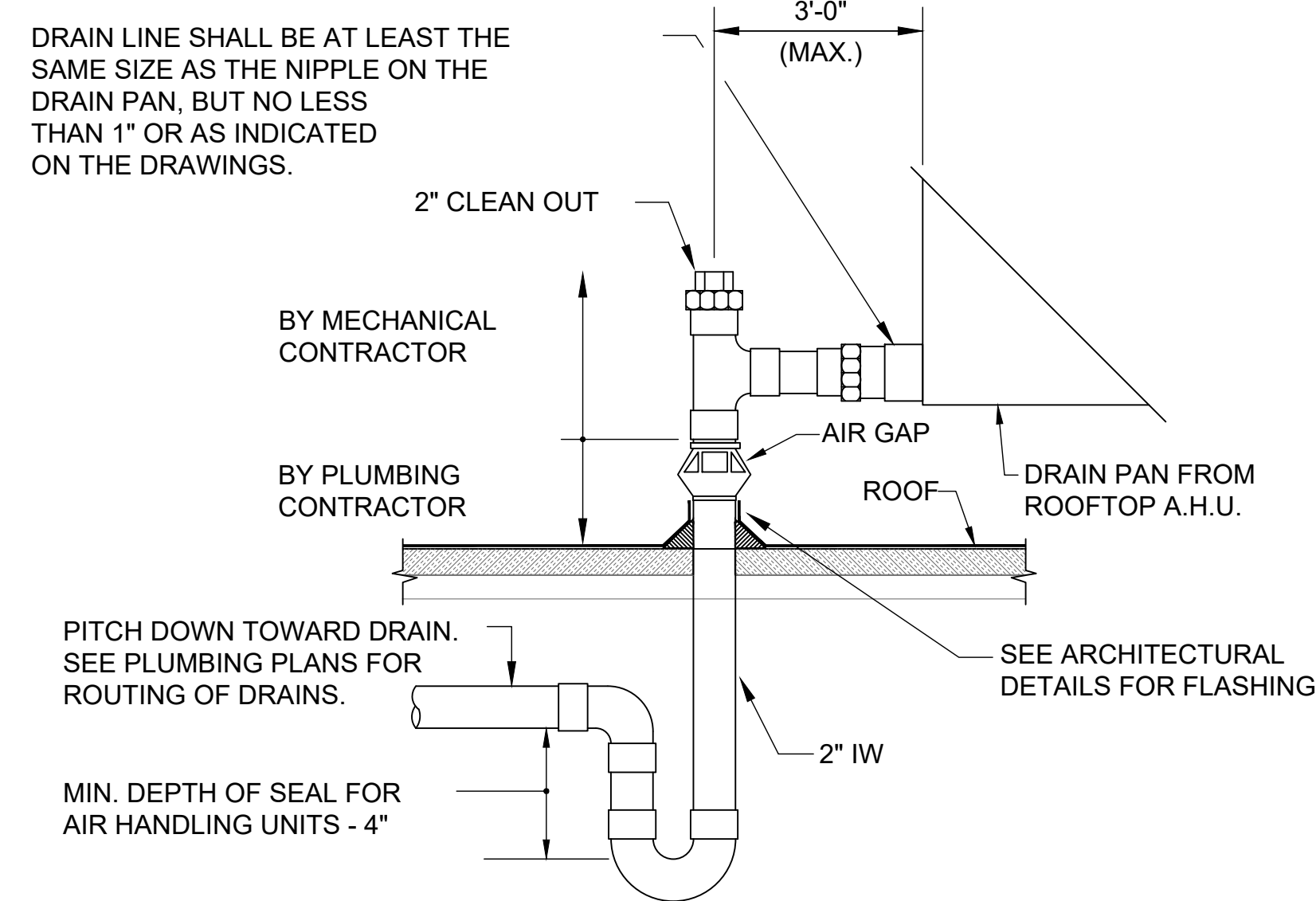
4 Diffuser Connection Detail
Not To Scale



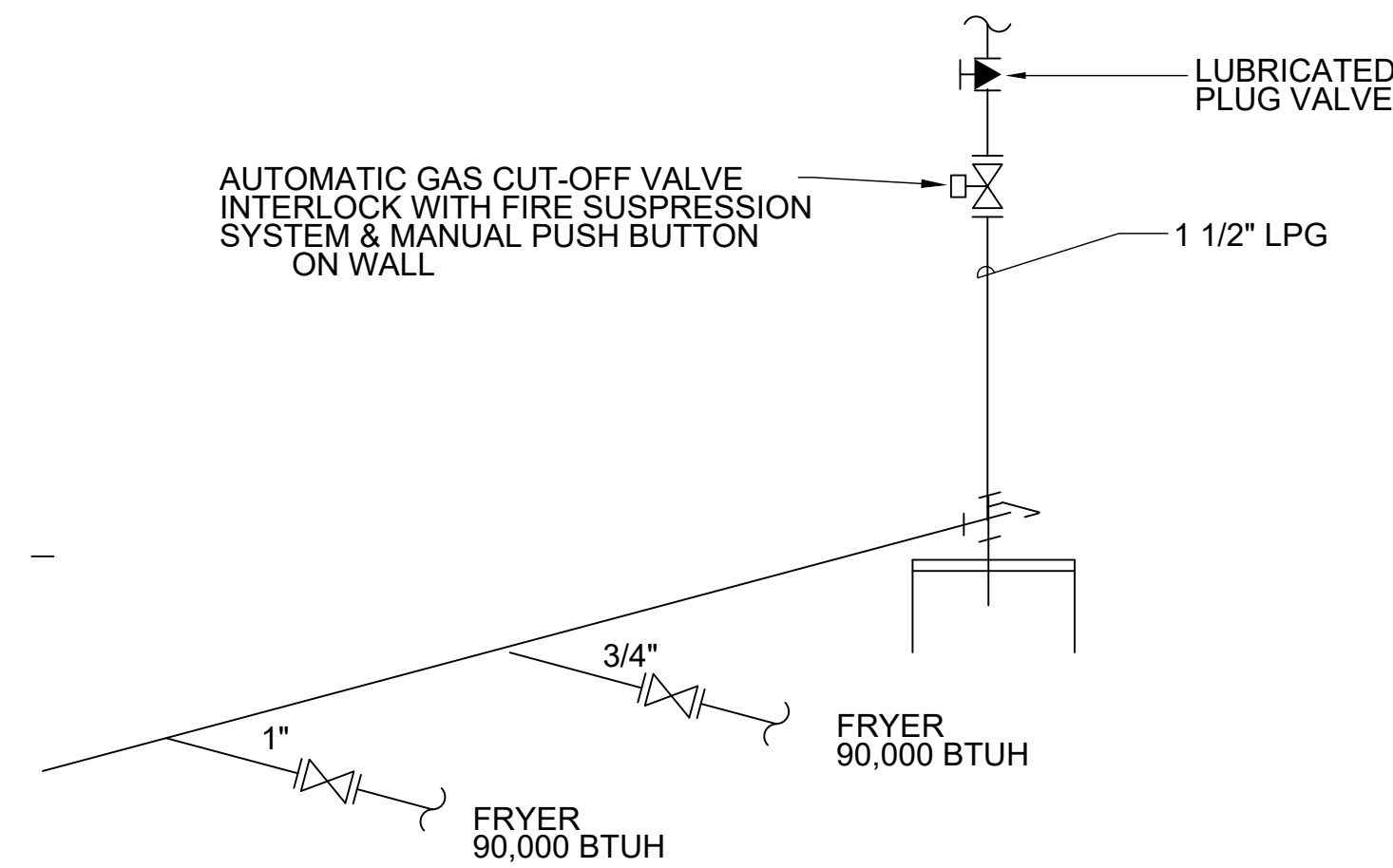
5 Gas Appliance Connection Detail
Not To Scale



6 Typ. Clg. Exhaust Fan Detail
Not To Scale



7 Condensate Drain Trap Detail
Not To Scale



8 GAS RISER

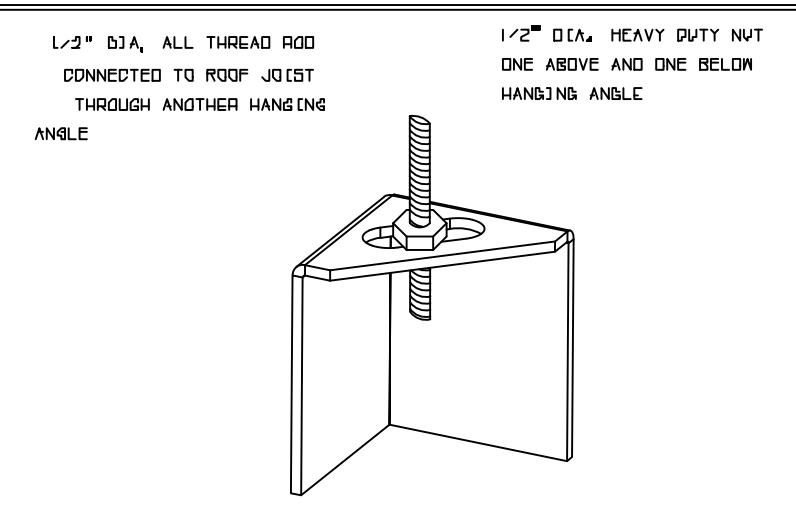
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REVISIONS	No.	Date	Description

SPRINGFIELD C-STORE
1411 E. SUNSHINE ST.
SPRINGFIELD, MISSOURI

PROJECT NUMBER
8061241
SCALE
AS SHOWN
SHEET NUMBER
M.201
DATE OF ORIGINAL ISSUE
2/18/22



* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-FINISHED AT FACTORY

HANGING ANGLE DETAILS

HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY EX2	150	200	250
WITH END PANELS (15' (REGULATION))	127.5	170	212.5
SLOPED EXX-2	225	284	-
ISLAND EX-2WJ	269	300	350
EXNDJ	345	422	475

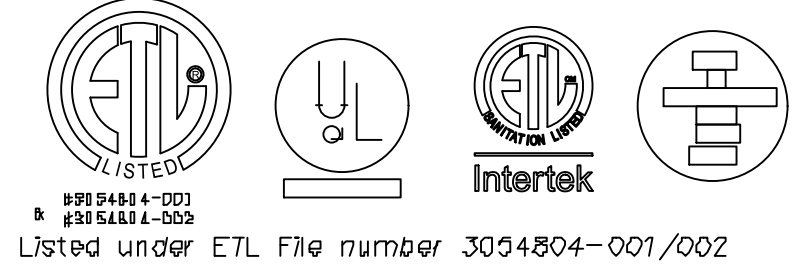
ETL HOOD LISTING DETAIL

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN FT. L/SQD
 SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED
 TOTAL DUCT AREA=144 X CFM^{1.3}
 DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH

*ECON-AIR VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM

CALCULATIONS UTILIZED

ECON-AIR ARE BUILT IN COMPLIANCE WITH:



Listed under ETL File number 3004804-001/002

BUILDING CODES

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	5" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

INSTALLATION

- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS
- ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS
- HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS; ALL OTHER HANGING MATERIALS PROVIDED BY INSTALLING CONTRACTORS
- ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTORS'S PLANS
- COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE
- EXHAUST FANS TO TURN ON IN EVENT OF FIRE
- ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PRE-RIELED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS
- LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS
- BEHIND RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR
- INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTERPRETATION AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN

BALANCE

- KITCHEN HOODS MUST BE BALANCED WITH KITCHEN
- KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA
- RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE

ADDITIONAL

- WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE
- SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION

HOOD INFORMATION - JOB#4863326

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL			SP	END TO END	ROW
1	KH-1	4824 EX-2-PSP-F	ECON-AIR	6' 2"	600 DEG	I	HEAVY	227	1400			4"	12"	1400	1783	-0.457"	1100	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)						LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL			SWITCHES
												TYPE	SIZE	MODEL #			QUANTITY
1	KH-1	SS BAFFLE WITH HANDLES	4	16"	16"	30%	2	L55 SERIES E26	NO	LEFT	12"x48"x24"	ANSUL R102	3.0	SC-311110FP	1 LIGHT 1 FAN	YES	510 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 87.00" LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 80.00" HIGH X 48.00" LONG 430 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 48" LONG INSULATED.
		RISER SENSOR INSTALL 3IN DBL.
		RISER SENSOR INSTALL 6IN PLEN.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	KH-1	Front	87"	14"	6"	MUA	10"	28"		550	0.141"
						MUA	10"	28"		550	0.141"

HVAC DISTRIBUTION NOTE
 HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

ECON-AIR RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

ECON-AIR HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF
E.T.L. LISTED 3054804-001 TO UL 710 & ULC710 STANDARDS

ELECTRICIAN NOTES :
 All Hood/Fan electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical package.
 Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician.
 Light bulbs for kitchen hoods to be provided and installed by electrician.

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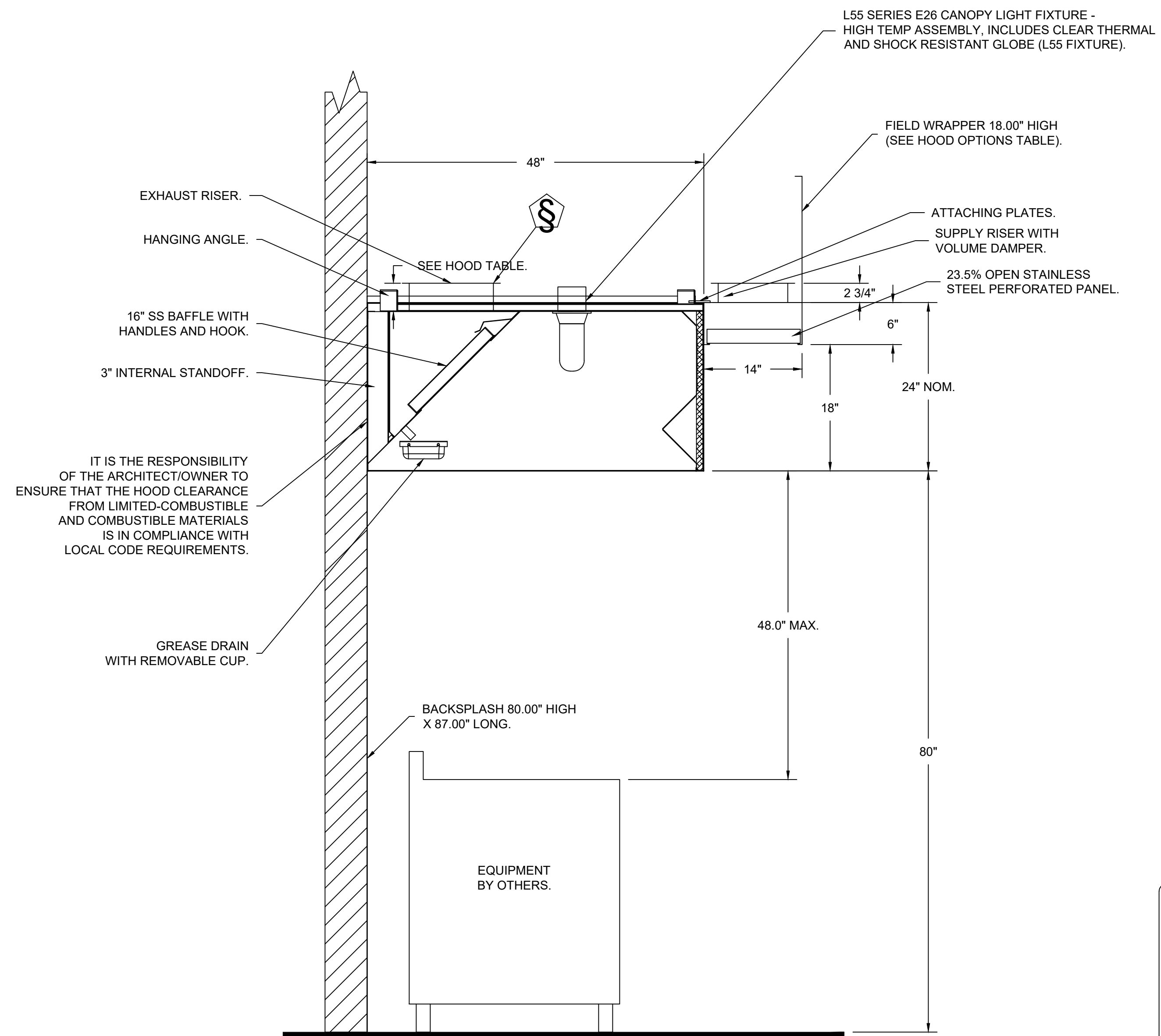
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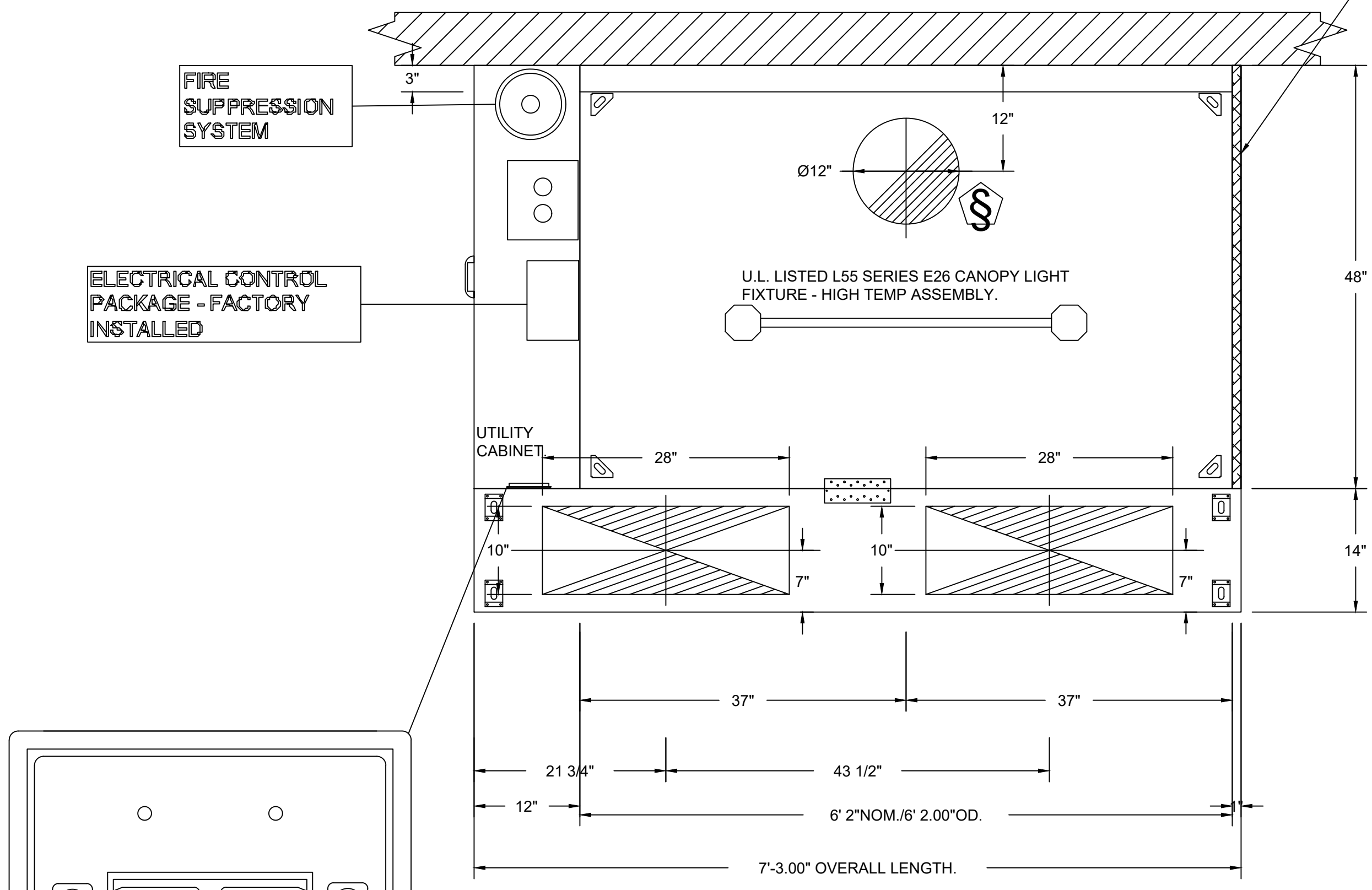
PROJECT NUMBER: 2061241
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 OF
 DATE OF ORIGINAL ISSUE: 2/18/22

SPRINGFIELD C-STORE
 1411 E. SUNSHINE ST.
 SPRINGFIELD, MISSOURI

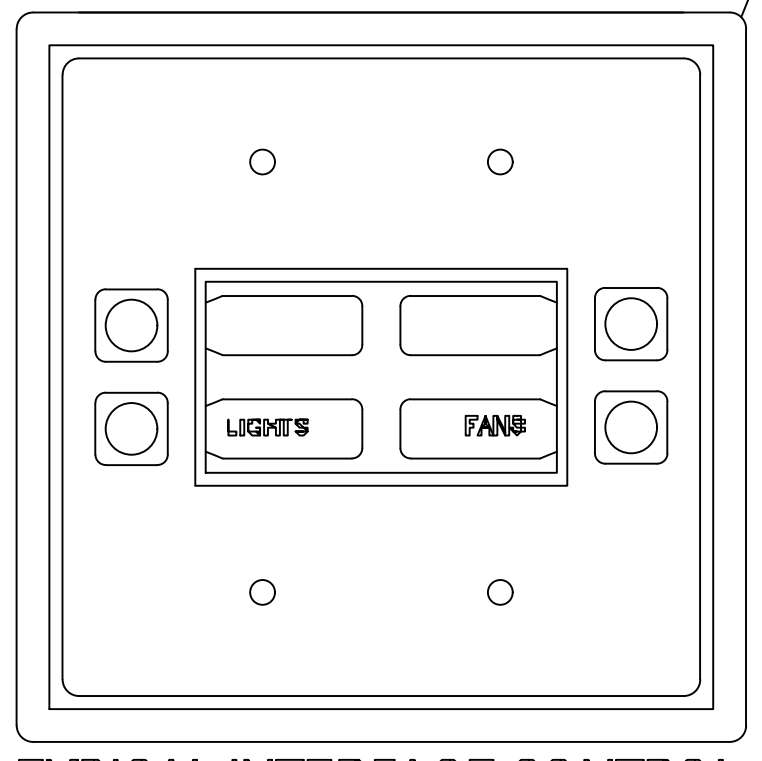


IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

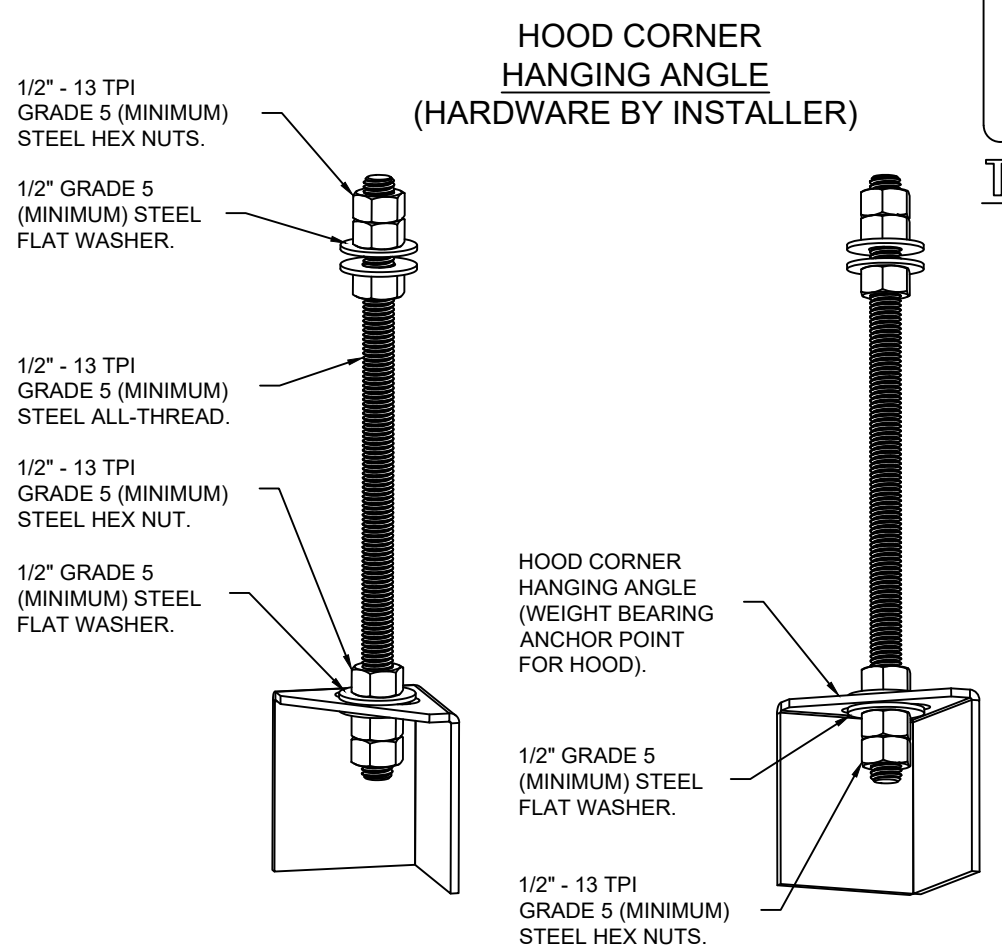
SECTION VIEW - MODEL 4824EX-2-PSP-F
HOOD - #1 (KH-1)



PLAN VIEW - HOOD #1 (KH-1)
6' 2.00" LONG 4824EX-2-PSP-F



TYPICAL INTERFACE CONTROL



ASSEMBLY INSTRUCTIONS

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

***** NOTE *****

ALL WALLS AND STRUCTURES THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK. WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD NOT ALLOWED

1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00" END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.

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PROJECT NUMBER: 2061241
SCALE: AS SHOWN
SHEET NUMBER: M.203
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DATE OF ORIGINAL ISSUE: 2/18/22

SPRINGFIELD C-STORE
1411 E. SUNSHINE ST.
SPRINGFIELD, MISSOURI

EXHAUST FAN INFORMATION - JOB#4863326

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	EADU85H	ECON-AIR	1400	1.000	1250	ODP	0.750	0.3510	3	208	2.6	443 FPM	94	10.7

MUA FAN INFORMATION - JOB#4863326

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	MAU-1	1	EA-A1-15D-MPU	15MF-1-MOD	A1	1100	1100	0.500	1335	ODP,PREMIUM	1.000	0.3480	3	208	3.1	3.9A	15A	936	14

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX.
		1	2 YEAR PARTS WARRANTY.
2	MAU-1	1	INSULATED BLOWER SECTION SIZE 1-2 COMMERCIAL.
		1	CONDENSER SUPPORT FOR SIZE 1 MOD PACKAGE UNIT.
		1	GRAVITY BACKDRAFT DAMPER FOR SIZE 1 HOUSING.

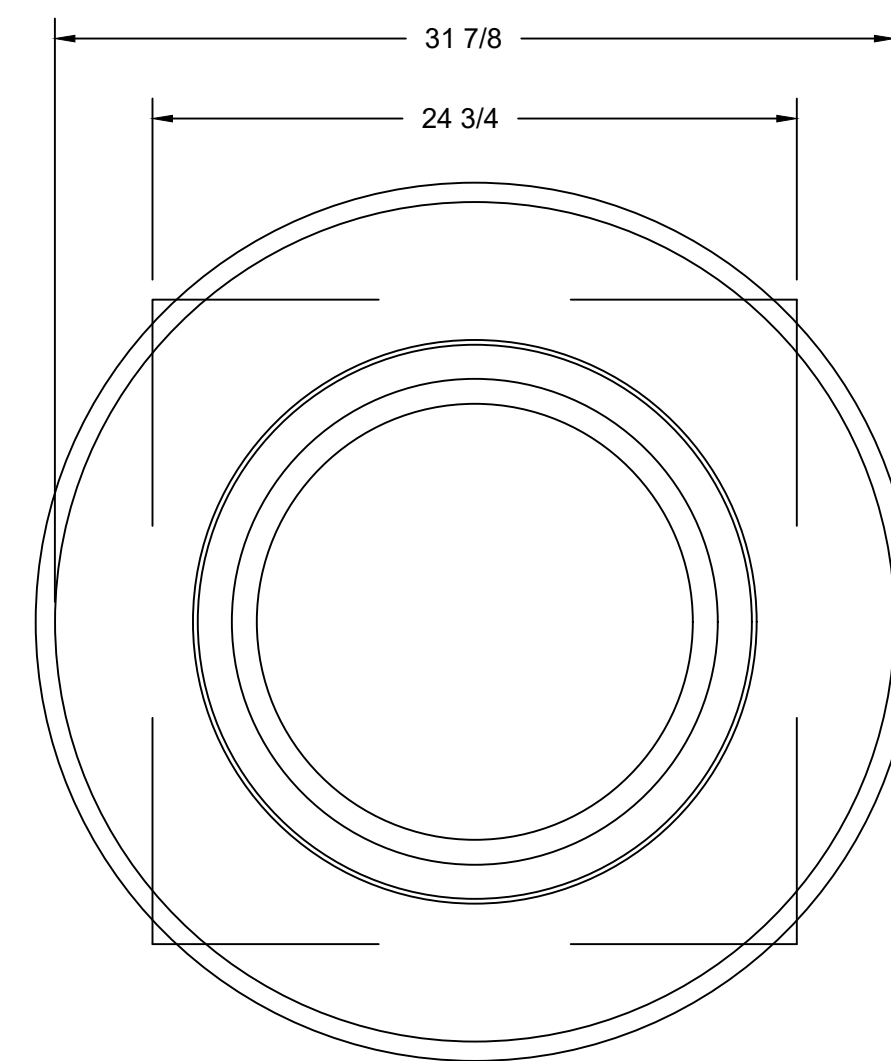
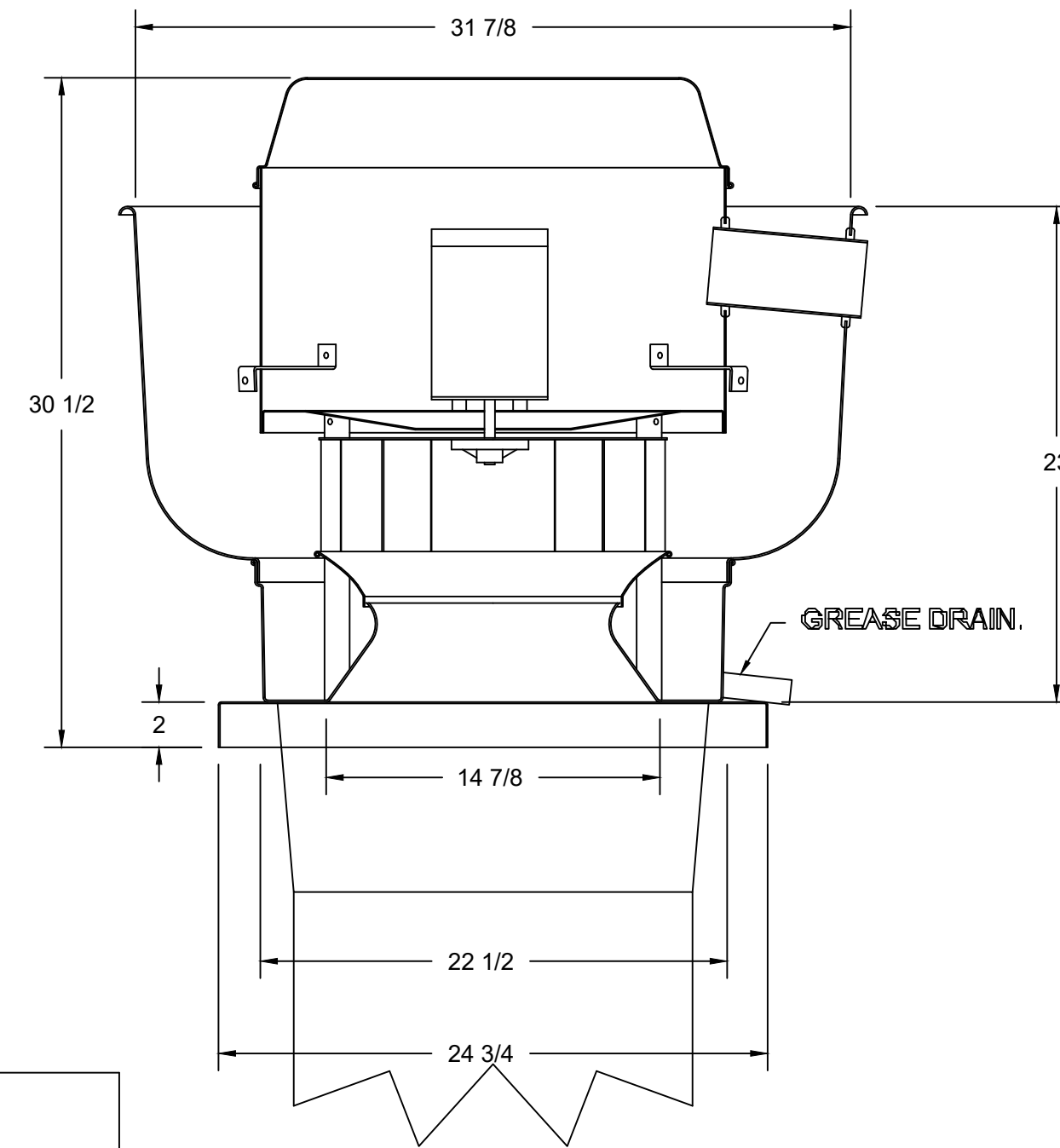
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	KEF-1	YES							
2	MAU-1					YES			

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.

EXHAUST FAN (KEF-1)



TOP VIEW

FEATURES:

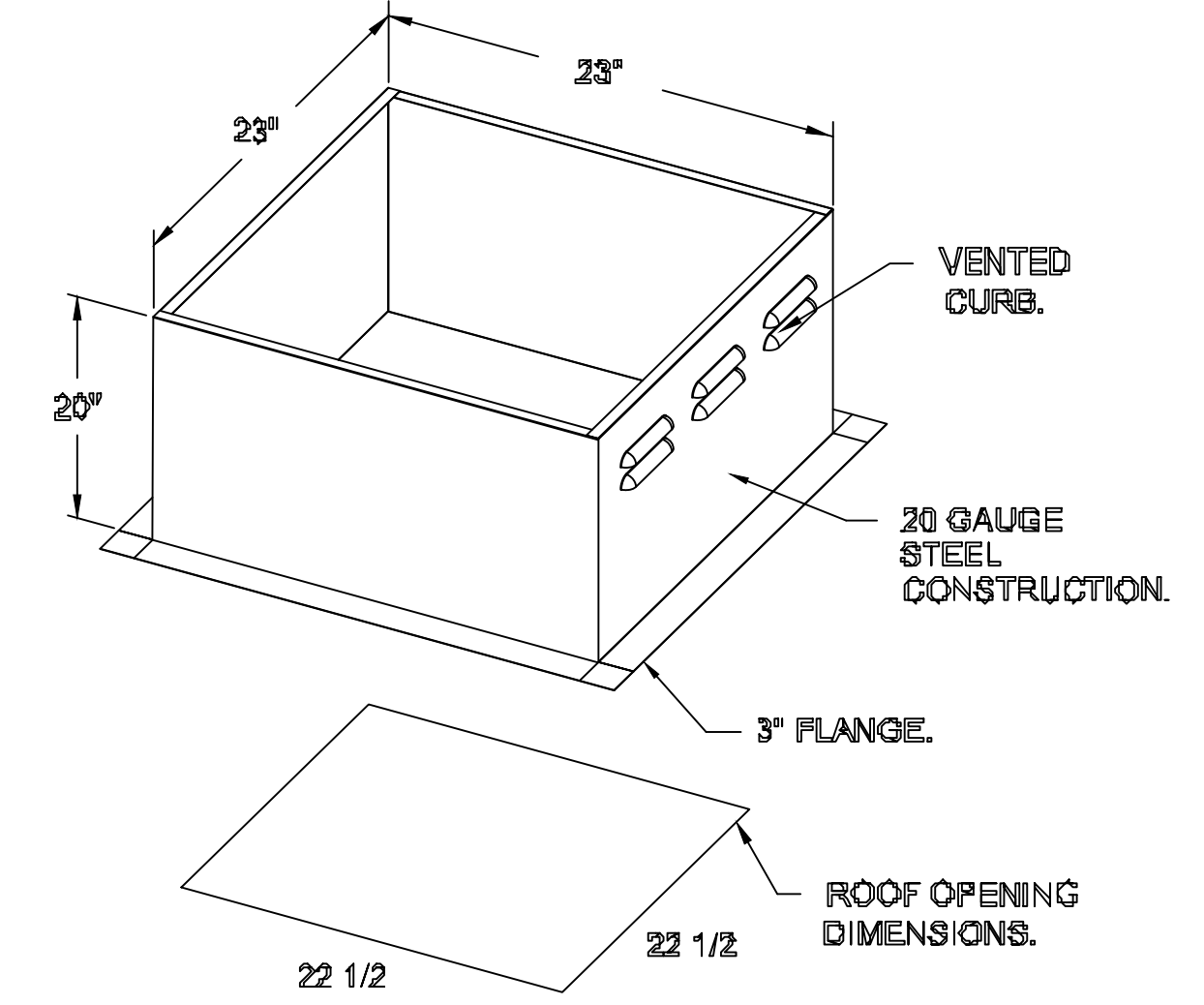
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FAN.
- RESTAURANT MODEL.
- UL706 AND UL762 AND ULG-6646
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

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

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 18 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT WOULD CAUSE AN UNSAFE CONDITION.

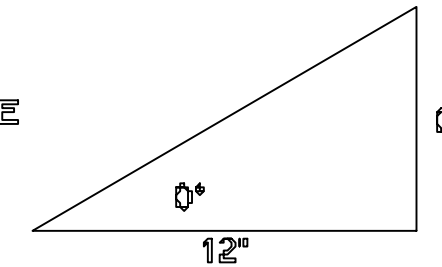
OPTIONS

- GREASE BOX.
- 2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

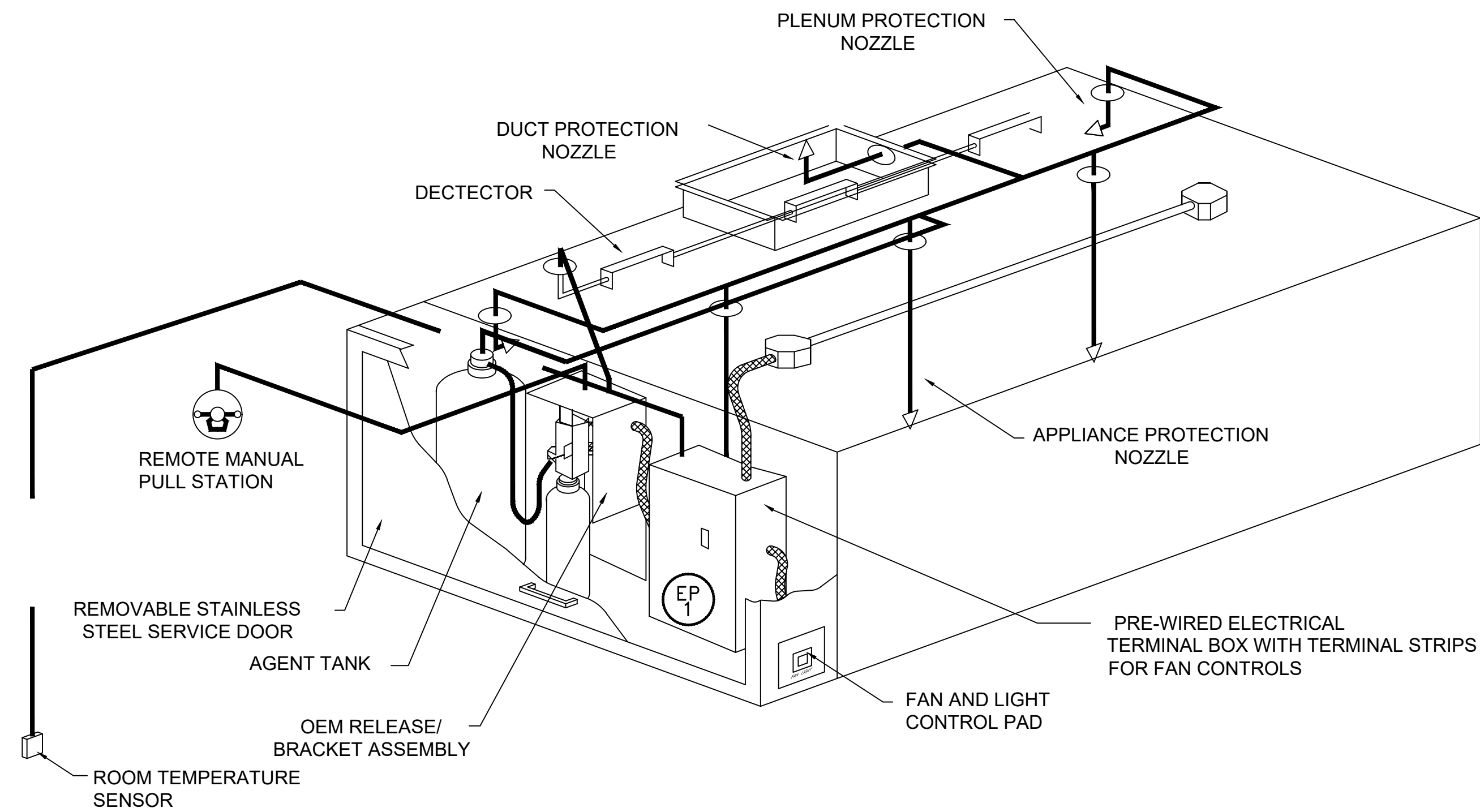


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TYPICAL INTEGRATED COMPONENT LAYOUT DETAIL

ACTUAL FIRE SYSTEM PIPING SCHEMATIC TO BE PROVIDED BY CONTRACTED FIRE SYSTEM DISTRIBUTOR AT TIME OF PERMITTING

SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.

EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

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SPRINGFIELD C-STORE
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PROJECT NUMBER
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 OF
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LEGEND

—————	SANITARY WASTE (SW)	PIPE DOWN	—○—
—————	SANITARY VENT (SV)	PIPE UP	—○—
-----	COLD WATER (CW)	CAP	⊖
AFF	ABOVE FINISHED FLOOR	BALANCING VALVE	⊕
CO	CLEANOUT	BALL VALVE	●
ELEV	ELEVATION	CHECK VALVE	⊖
FCO	FLOOR CLEANOUT		⊕
TYP	TYPICAL		⊖

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES INVOLVED TO AVOID ANY PIPE ROUTING PROBLEMS. IN THE EVENT CONFLICTS ARE ENCOUNTERED WHICH CANNOT BE RESOLVED BY THE TRADES INVOLVED, THE ARCHITECT SHALL BE CONSULTED AND HIS DECISION SHALL GOVERN.
- IF ANY DISRUPTION OF SERVICES IS EXPECTED, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS AHEAD OF DISRUPTION.
- CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. CONTRACTOR SHALL INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS FURNISHING CUTOFF VALVES, P-TRAPS, PRESSURE REDUCING VALVES, AND PIPING AS REQUIRED.
- ALL SANITARY VENT TERMINATIONS SHALL BE A MINIMUM OF 25'-0" AWAY FROM ALL FRESH AIR INTAKES FOR MECHANICAL UNITS.
- CONTRACTOR SHALL PROVIDE INCREASERS ON SANITARY VENT PIPING PENETRATIONS THROUGH THE ROOF WHERE REQUIRED BY CODE.
- ALL FIXTURES, EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
- PENETRATIONS THROUGH NEW WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS DIRECTED BY THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
- ALL NEW PIPE PENETRATIONS OF FIRE RATED WALLS, AS SHOWN BY THE LIFE SAFETY PLANS, SHALL HAVE A UL LISTED F RATING EQUAL TO THE WALL FIRE RATING. REFER TO THE WALL PENETRATION DETAILS FOR FURTHER INFORMATION.
- CONTRACTOR TO SEISMICALLY BRACE ALL PIPE AS REQUIRED BY LOCAL CODE REQUIREMENTS.
- PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL EQUIPMENT.
- EXACT LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR. ALL REQUIRED CONDENSATE PIPING SHALL BE COORDINATED WITH THIS EQUIPMENT.
- SANITARY SEWER PIPING SHALL BE SLOPED AS FOLLOWS: 4" SANITARY WASTE PIPING AND LARGER SHALL BE ROUTED AT 1/8" PER FOOT MINIMUM. 3" SANITARY WASTE PIPING AND SMALLER SHALL BE ROUTED AT 1/4" PER FOOT MINIMUM.
- CONTRACTOR SHALL ESTABLISH A SEQUENCE OF INSTALLATION WITH OTHER TRADES WORKING ON THE PROJECT. CONTRACTOR SHALL THOROUGHLY COORDINATE ALL SYSTEMS WITH OTHER TRADES.
- CATHODIC PROTECTION, IF REQUIRED, IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL PROTECT ALL UNDERGROUND METALLIC PIPING FROM CORROSION. REFER TO SOILS REPORT. UNDERGROUND PIPING MAY ALSO BE PROTECTED WITH POLYETHYLENE ENCASEMENT CONFORMING TO ANSI/AWWA REQUIREMENTS. ALL PIPING SHALL BE WRAPPED COMPLETELY WITH ENCASEMENT TO A POINT AT LEAST 12 A.F.G OR FIN. FLOOR. ENCASEMENT SHALL BE FREE OF TEARS WITH ALL JOINTS COMPLETELY SEALED. NO PORTION OF THE PIPE SHALL BE LEFT EXPOSED TO CORROSIVE SOIL.
- PROVIDE ALL REQUIRED PRV'S, VALVES, AND GUAGES AS REQUIRED BY LOCAL CODES AND PER MANUFACTURER'S REC.
- DRAINAGE AND WATER PIPING SHALL BE TESTED PER CODE.
- USE DIELECTRIC FITTINGS AND UNIONS ON UNSIMILAR MATERIALS.
- BALL VALVES SHALL BE BE RATED MIN 125 PSIG AND BE FULL PORT 2 PIECE WITH SS BALL.

SPECIFICATIONS - PLUMBING

- A. MATERIALS AND WORKMANSHIP**
- THE PLUMBING PLANS ARE DIAGRAMMATIC AND NOT TO BE SCALED.
 - THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS, AND SHALL FIT THE WORK ACCURATELY TO THE BUILDING.
- B. PERMITS AND FEES**
- THE CONTRACTOR SHALL MAKE APPLICATION, AND PAY ALL RELATED FEES AND COSTS FOR PERMITS, INSPECTIONS, AND TESTS AS REQUIRED BY THE LOCAL AUTHORITY. INCLUDE COSTS IN CONTRACT PRICE.
- D. DRAINAGE SYSTEMS**
- FURNISH AND INSTALL ALL SOIL, WASTE, VENT, AND DRAIN PIPING AS INDICATED.
 - ALL ABOVE GRADE STORM DRAIN, SOIL, WASTE, VENT, AND DRAIN PIPING SHALL BE SERVICE WEIGHT NO-HUB CAST IRON. FIXTURE PIPING EXPOSED IN FINISHED AREAS SHALL BE CHROME PLATED BRASS. FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
 - INDIRECT WASTE AND CONDENSATE DRAIN PIPING SHALL BE DWV COPPER. ALL FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
 - SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE SUBJECTED TO A WATER TEST OF NOT LESS THAN TEN FEET OF HYDROSTATIC HEAD FOR A PERIOD OF NOT LESS THAN THIRTY MINUTES PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.
- E. WATER PIPING (DOMESTIC)**
- HOT, HOT RETURN, AND COLD WATER PIPING SHALL BE TYPE 'L' COPPER ABOVE GRADE.
 - FITTINGS SHALL BE WROT COPPER.
 - TEST WATER PIPING AT 125 PSI FOR A PERIOD OF 24 HOURS PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.
- F. PIPE JOINTS**
- JOINTS IN CAST-IRON SOIL, WASTE AND VENT PIPING ABOVE GRADE SHALL BE MADE WITH NO-HUB CLAMPS.
 - JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE SOLDERED JOINTS MADE WITH GRADE 95 TA LEAD-FREE SOLDER WITH A NON-CORROSIVE, PETROLEUM-BASED FLUX AS RECOMMENDED BY THE PIPE MANUFACTURER.
 - JOINTS IN STEEL PIPING SHALL BE THREADED AND MADE WITH STANDARD FITTINGS WITH A WORKING PRESSURE OF 165 PSI.
 - JOINTS BETWEEN PIPING OF DISSIMILAR MATERIALS SHALL BE MADE USING DIELECTRIC UNIONS.
- G. BALL VALVES**
- VALVES SHALL BE BRONZE OR BRASS THROUGHOUT.
 - VALVES SHALL BE RATED FOR 125 PSI, AND BE MADE BY NIBCO OR EQUAL.
- H. INSULATION**
- COLD WATER AND CONDENSATE DRAIN PIPING ABOVE GRADE SHALL BE COVERED WITH 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.
 - HOT WATER SUPPLY AND RETURN PIPING ABOVE GRADE SHALL BE COVERED WITH 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.
- I. HANGERS**
- HANGERS FOR COPPER PIPING SHALL BE CLEVIS OR SPLIT-RING AS MANUFACTURED BY GRINNELL OR EQUAL, AND SHALL BE COPPER-CLAD OR PVC-COATED TO PREVENT GALVANIC CORROSION.
 - HANGERS FOR SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE CLEVIS HANGERS AS MANUFACTURED BY GRINNELL OR EQUAL.
- J. CLEAN-UP**
- AFTER ALL FIXTURES HAVE BEEN SET, INSPECTED, AND TESTED THEY SHALL BE THOROUGHLY CLEANED BY THE PLUMBING CONTRACTOR PRIOR TO LEAVING THE SITE.

TAG	FIXTURE	FLUSH/FAUCET/SHOWER HEAD	REMARKS	TRAP	MIN PIPE CONNECTION			
					SW	VENT	CW	HW
WCA-1	ADA WATER CLOSET, REGULAR WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, 1 1/2" TOP SPUD, SIPHON JET. EQUAL TO AMERICAN STANDARD	PRESSURE ASSIST TANK TYPE	SEAT TO BE ELONGATED WITH OPEN FRONT. SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES. WHITE. EQUAL TO BEMIS 1955SSC.	INT	4"	2"	1"	NA
WC-1	WATER CLOSET, REGULAR WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, 1 1/2" TOP SPUD, SIPHON JET. EQUAL TO AMERICAN STANDARD	PRESSURE ASSIST TANK TYPE	SEAT TO BE ELONGATED WITH OPEN FRONT. SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES. WHITE. EQUAL TO BEMIS 1955SSC.	INT	4"	2"	1"	NA
L-1	ADA WHITE VITREOUS CHINA, WALL MOUNT WITH OVERFLOW. KOHLER	BRUSHED NICKEL FINISH, SINGLE HOLE, SINGLE LEVER FAUCET 0.5 GPM- GROHE "CONCETTO" 34702EN1. PROVIDE TEMPERATURE LIMITING DEVICE PER ASSE 1070	1 1/4" GRID STRAINER, ZURN ZB743-PC, PTRAP TO BE 17 GA 1 1/2" BRASS. ZURN ZR361-R8. PROVIDE STOPS. ZURN ZB800. PROVIDE BELOW COUNTER INSULATION EQUAL TO TRU BRO ON ALLEXPOSED TRIM. PROVIDE CONCEALED FLOOR MOUNT CARRIER AS REQUIRED	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"
MB-1	MAP BASIN PRECAST CORNER TERRAZZO. 12" DEEP, 24"x24". STAINLESS STEEL CAPS ON ALL SIDES AND TILING AND FLANGE. FLORESTONE MODEL 87. COORDINATE SIDES OF TILING FLANGES PRIOR TO ORDERING	SERVICE SINK FAUCET, CHROME PLATED INTEGRAL VACUUM BREAKER. WALL BRACE WITH LEVER HANDLES AND HOSE THREADED SPOUT EQUAL TO ZURN ZB43M1	PROVIDE 3" CAST BRASS CHROME PLATED STRAINER. STAINLESS TEEL CAP, HOSE AND WALL HOOK, SPLASH CATCHER PANLES AND MOP HANGER BRACKET. PROVIDE 3" P TRAP	3"	3"	3"	3/4"	3/4"
HS-1	HANDSINK SELECTED BY OWNER	HANDSINK SELECTED BY OWNER	HANDSINK SELECTED BY OWNER	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"
S-1	3 COMPARTMENT SINK SELECTED BY OWNER	3 COMPARTMENT SINK SELECTED BY OWNER	3 COMPARTMENT SINK SELECTED BY OWNER				3/4"	3/4"
FCO	CAST IRON CLEANOUT WITH THREADED ADJ HOUSING. FLANGED FERRULE WITH TAPERED BRASS PLUG. ROUND SECURED, SCORIATED NICKEL BRONZE TOP. EQUAL TO ZURN Z1400			PLANS	PLANS			
WCO	CAST IRON CLEANOUT WITH T TAPERED BRASS PLUG. ROUND STAINLESS STEEL COVER PLATE WITH SCREW EQUAL TO ZURN Z1441			PLANS	PLANS			
GCO	GRADE CLEANOUT: HEAVY DUTY CAST IRON CLEANOUT WITH THREADED ADJ HOUSING FLANGED FERRULE WITH TAPERED BRASS PLUG. HEAVY DUTY SECURED SCORIATED CAST IRON TOP - ZURN Z1400			PLANS	PLANS			
HB-1	WALL HYDRANT NON FREEZE. KEY OPERATED WITH CHROME PLATED FACE. INTEGRAL VACUUM BREAKER, ZURN Z1300		3/4" HOSE CONNECTION, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS. GALVANIZED WALL CASING AND HYDRANT KEY. MOUNT 24" AFF TO BOTTOM OF HYDRANT	-	-	-	3/4"	-
FS-1	CAST IRON FLOOR SINK 12"x12"x8" WITH DOME STRAINER AND SEDIMENT BUCKET	FLOOR SINK TO BE INSTALLED WITH RIM 1/2" TO 1" AFF		PLANS	PLANS			
FD-1	CAST IRON SQUARE FLOOR DRAIN WITH BOTTOM OUTLET. COMBO INVERTIBLE MEMBRANE CLAMP, ADJ COLLAR, SEEPAGE OPENINGS, POLISHED NICKEL BRONZE LIGHT DUTY LEVELING STRAINER WITH VANDAL PROOF SREWS. EQUAL TO ZURN Z415BZ			PLANS	3"			
HD-1	JR SMITH. DEEP SEAL P-TRAP WITH 1/2" TRAP PRIMER CONNECTION, MODEL 7222-P050. 3" FIXED AIR GAP WITH 1 1/4" SET SCREW INLET AND 2" NO HUB OUTLET, MODEL 3955S			PLANS	3"			

WATER HEATER						
MARK	TYPE	TANK	BTUH	GPH	DELTA T	REMARKS
WH-1	GAS	80 GAL	80000	75	80	1
1. EQUAL TO STATE WITH THERMAL EXPANSION TANK, PAN AND DISCONNECT.						

PIPE SCHEDULE				
SYSTEM	ABOVE GRADE	BELOW GRADE	JOINTS	INSULATION
SANITARY	SCH 40 PVC	SCH 40 PVC	SOLVENT WELD	
VENT	SCH 40 PVC	SCH 40 PVC	SOLVENT WELD	
CW	TYPE L COPPER	TYPE K COPPER	LEAD FREE NICKEL BEARING SOLDER	1/2" FIBERGLASS WITH ASJ
HW	TYPE L COPPER	TYPE K COPPER	LEAD FREE NICKEL BEARING SOLDER	1/2" FIBERGLASS WITH ASJ
CONDENSATE	SCH 40 PVC, COPPER IN PLENUM RETURN	SCH 40 PVC	PVC SOLVENT WELD COPPER SOLDER	1/2" FIBERGLASS WITH ASJ

RECIRCULATION PUMP							
MARK	SERVICE	GPM	HEAD	HP	VOLT PHA	TYPE	REMARKS
CP-1	WH-1	2	10	1/10	120/1	INLINE	1
1. EQUAL TO B&G. PROVIDE DISCONNECT							

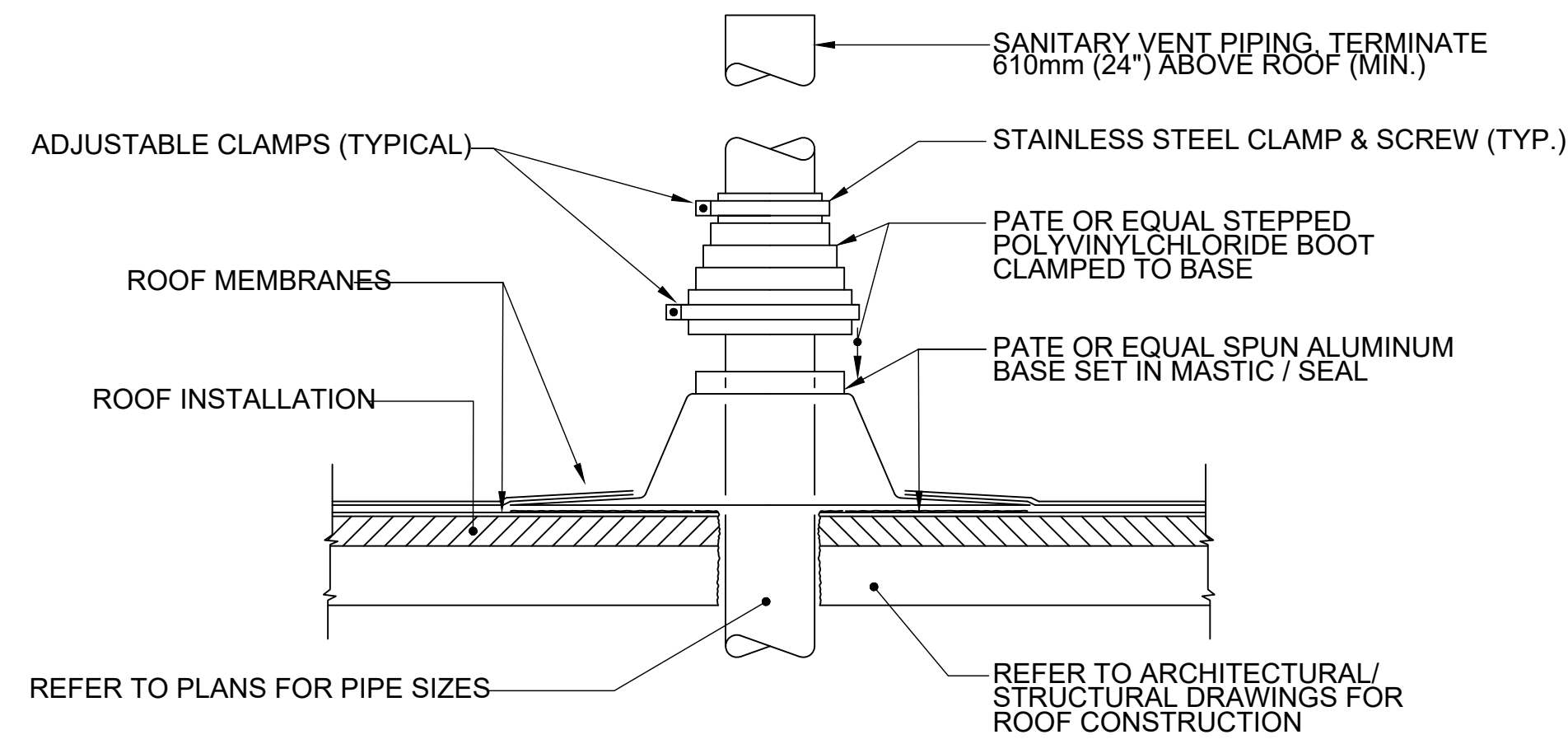
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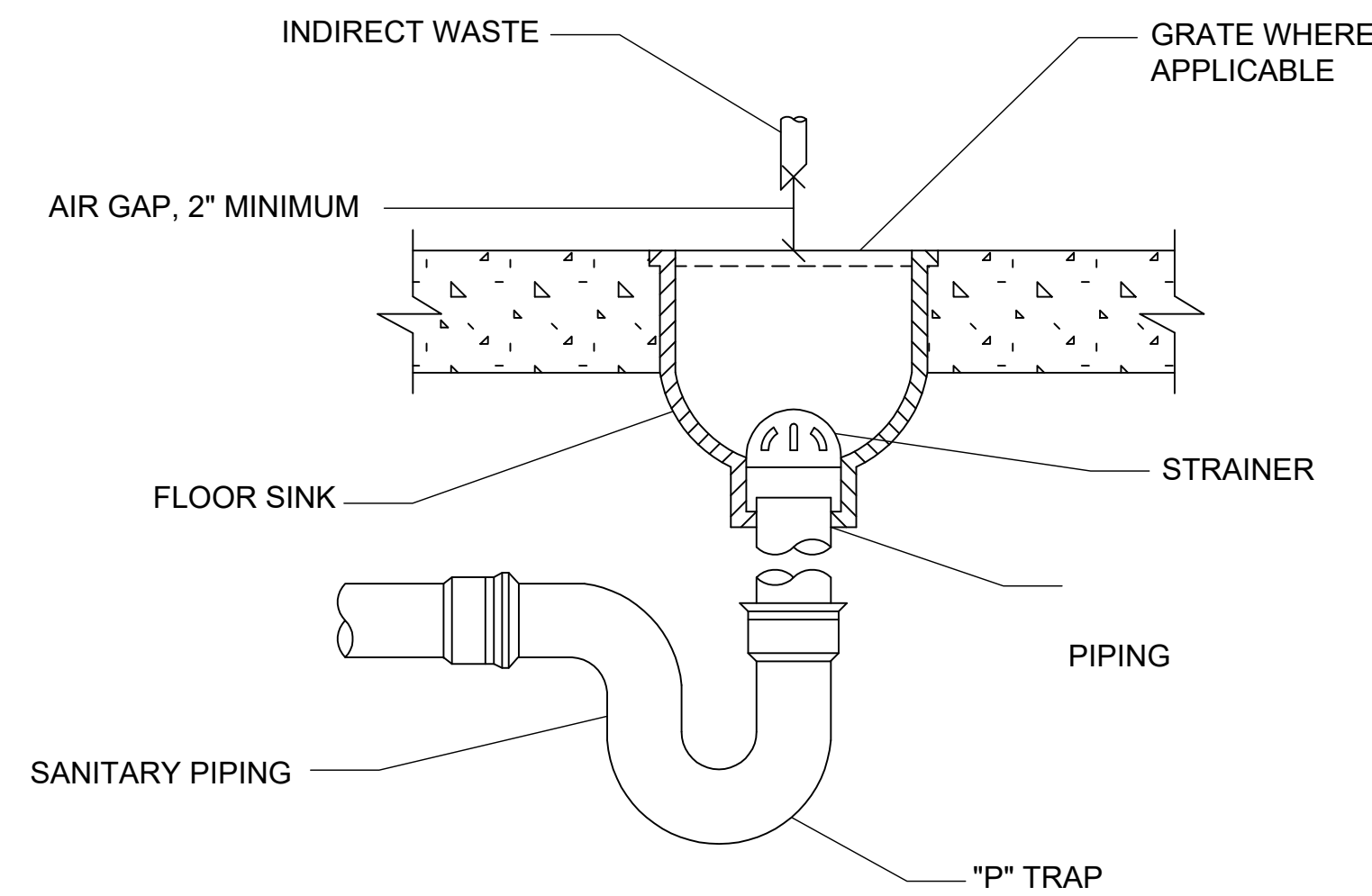
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PROJECT NUMBER
 8061241
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 AS SHOWN
 SHEET NUMBER
P.001
 OF
 DATE OF ORIGINAL ISSUE
 2/18/22

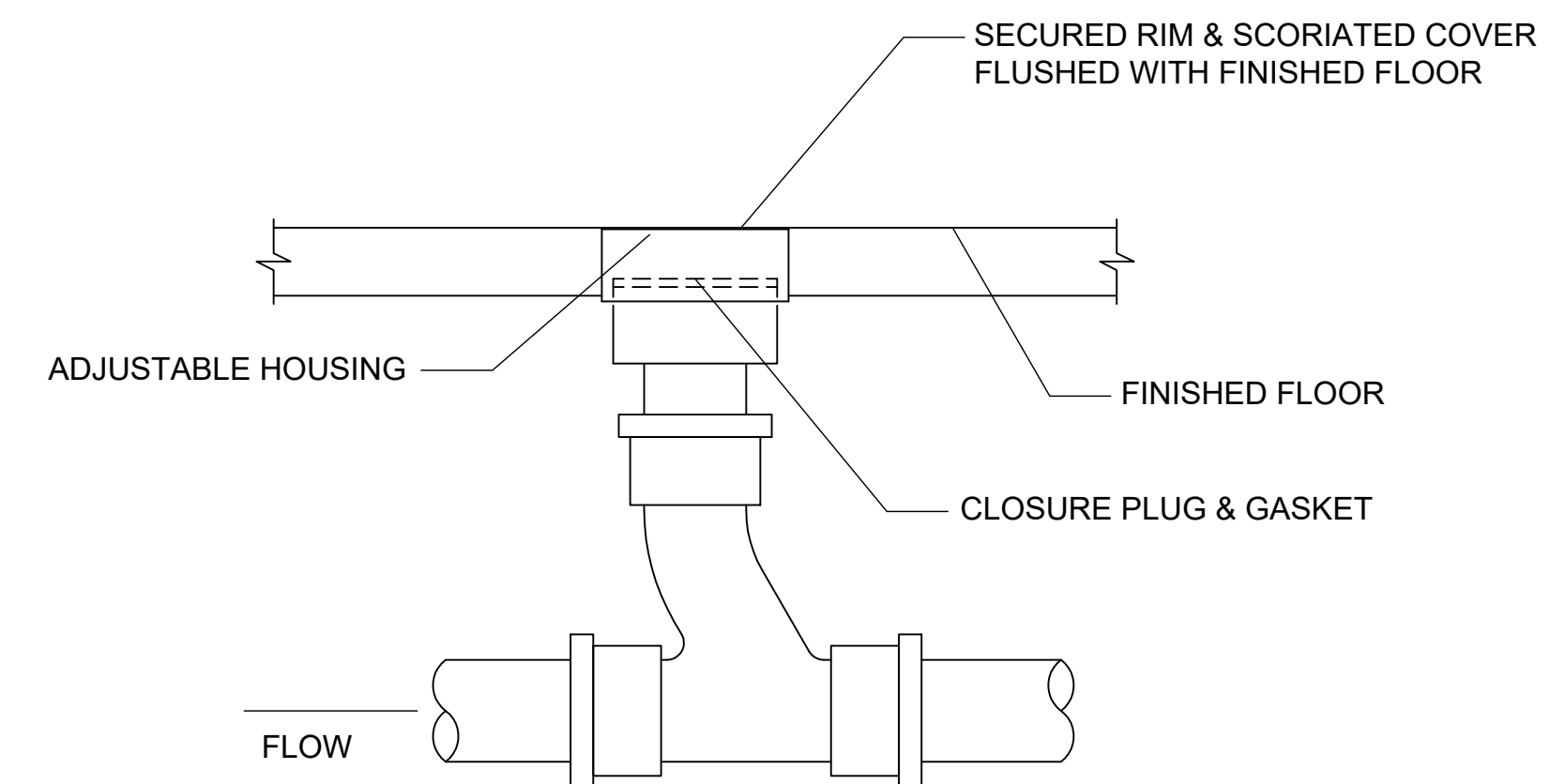
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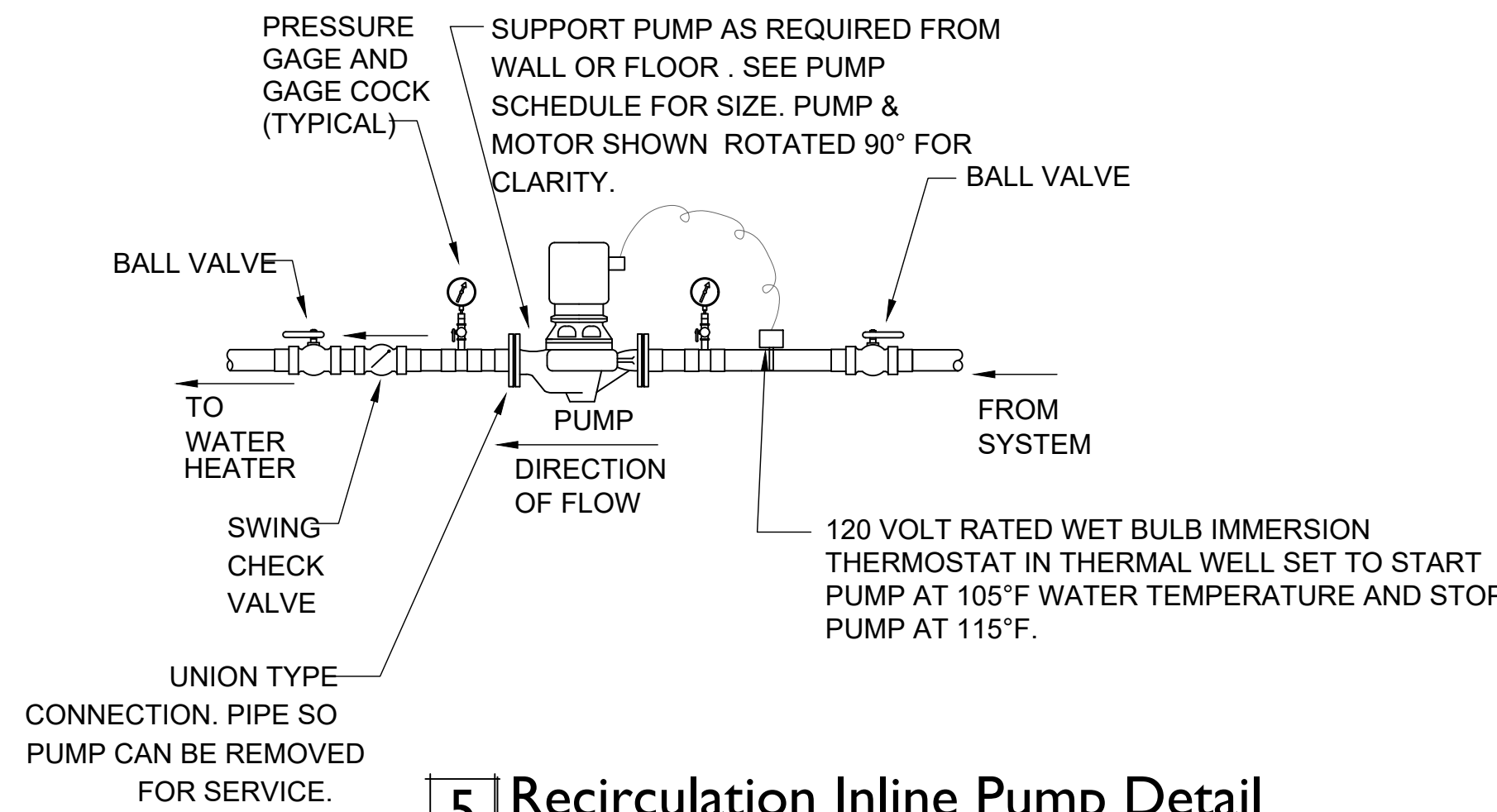
1 Sanitary Vent Detail
Not To Scale



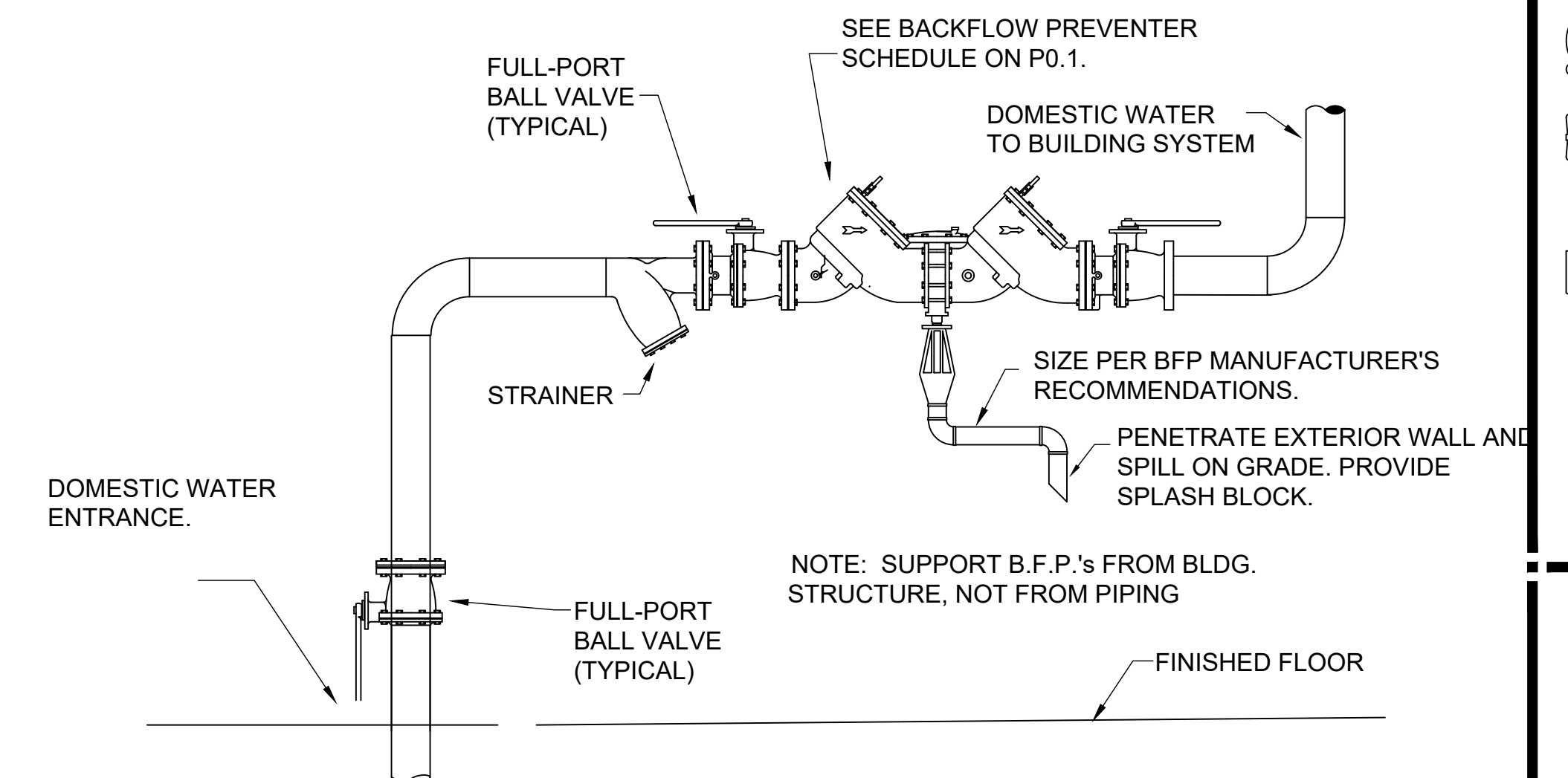
2 Floor Sink Detail
Not To Scale



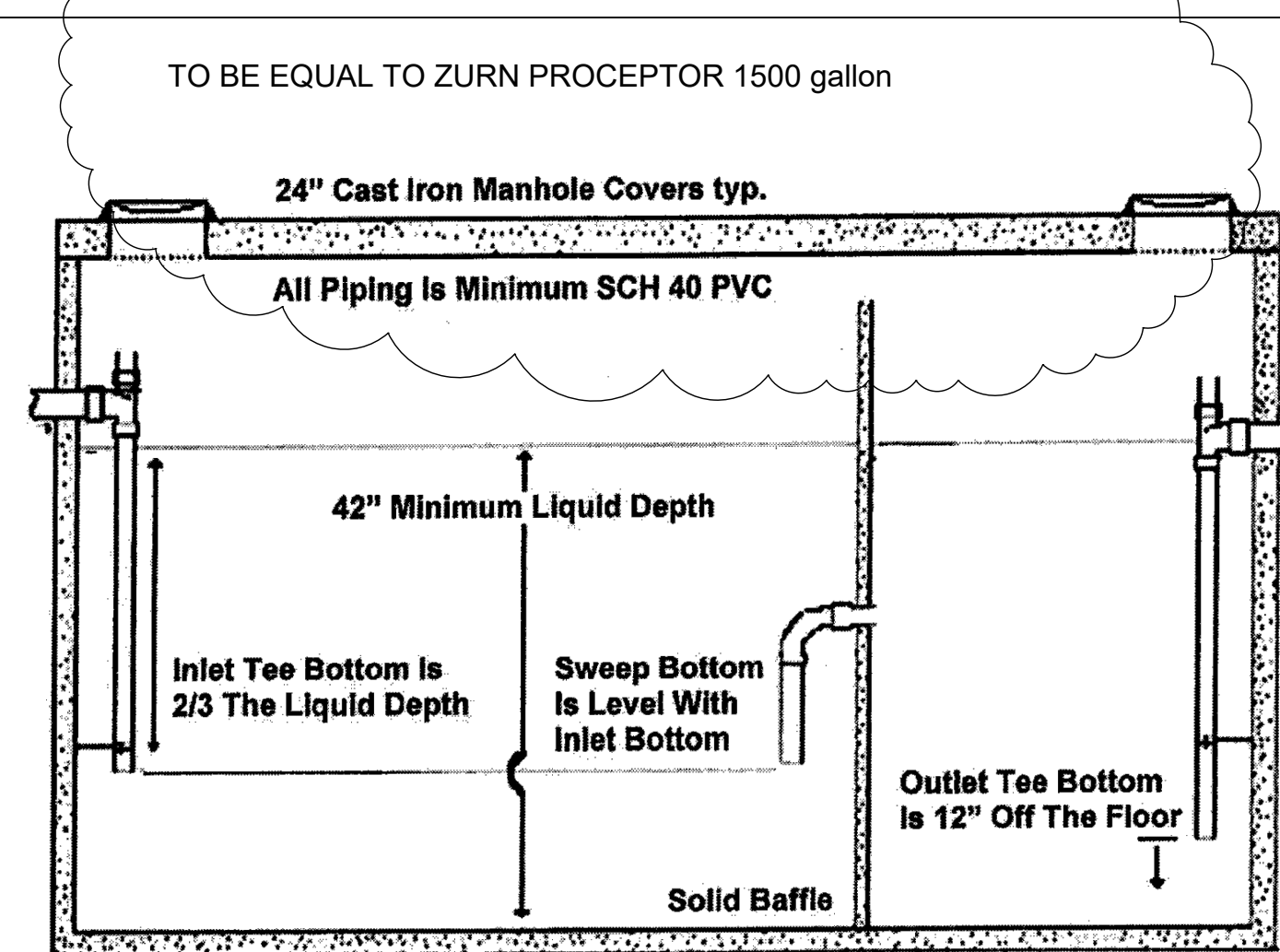
3 Floor Cleanout Detail
Not To Scale



5 Recirculation Inline Pump Detail
Not To Scale

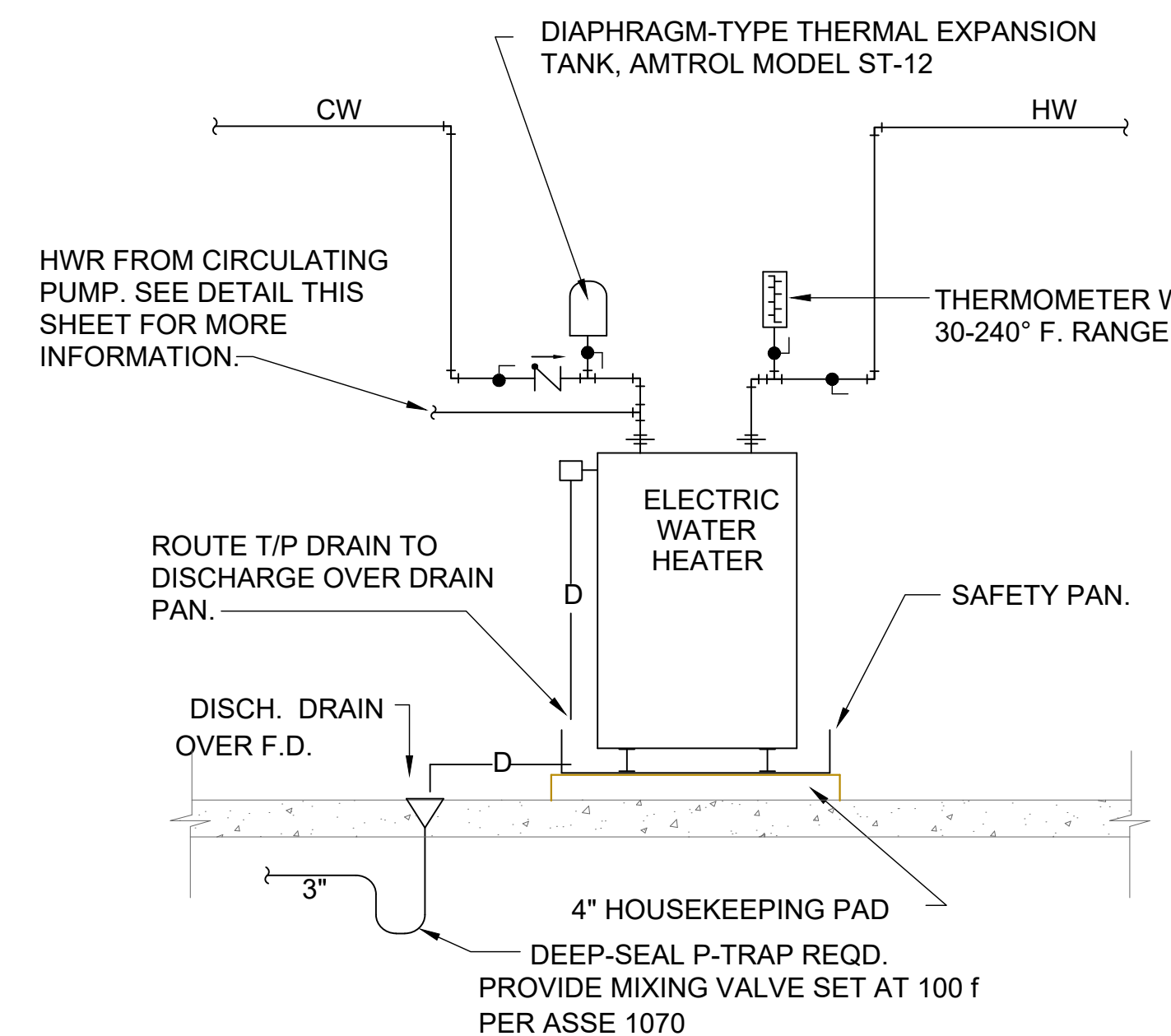


6 Backflow Preventer Detail
Not To Scale



The tank shall be of a monolithic body design, separated by a solid baffle into 2/3 total capacity inlet chamber and 1/3 total capacity outlet chamber. It shall have 24" access ways over each drop tee. Flow through the baffle will be provided by a 90 degree sweep. All perforations and seams shall be sealed with hydraulic cement or welded. All piping shall be a minimum of schedule 40 PVC solvent welded; pipe clamps and/or hangers may be required. All parts of the system shall be made water and gas tight from two way cleanout upstream of tank to two way cleanout downstream of tank including any risers to grade; proper venting allowed.

3 Grease Trap detail
Not To Scale



8 Electric Water Heater Detail
Not To Scale

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SPRINGFIELD C-STORE
1411 E. SUNSHINE ST.
SPRINGFIELD, MISSOURI

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SHEET NUMBER
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2/18/22

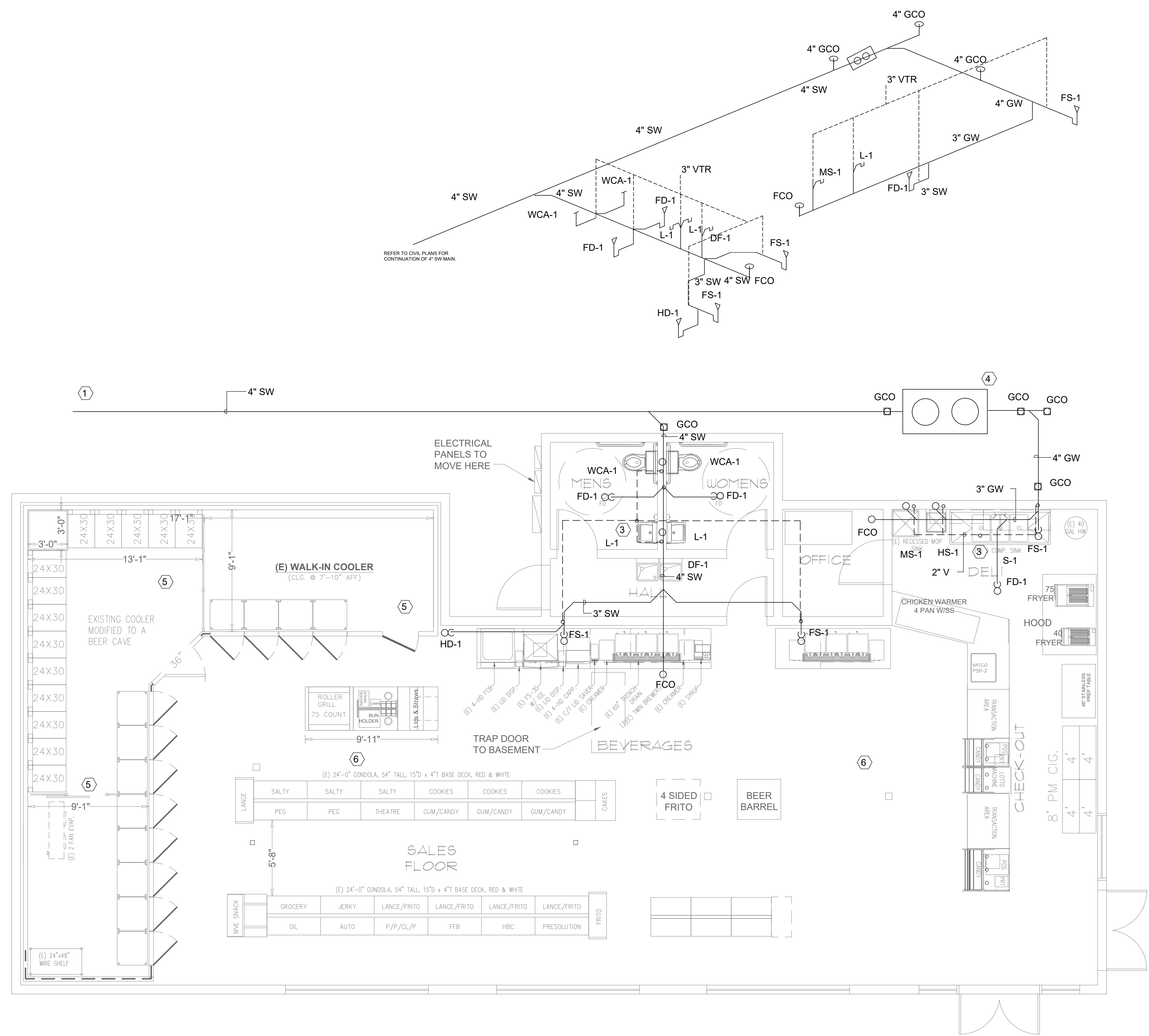
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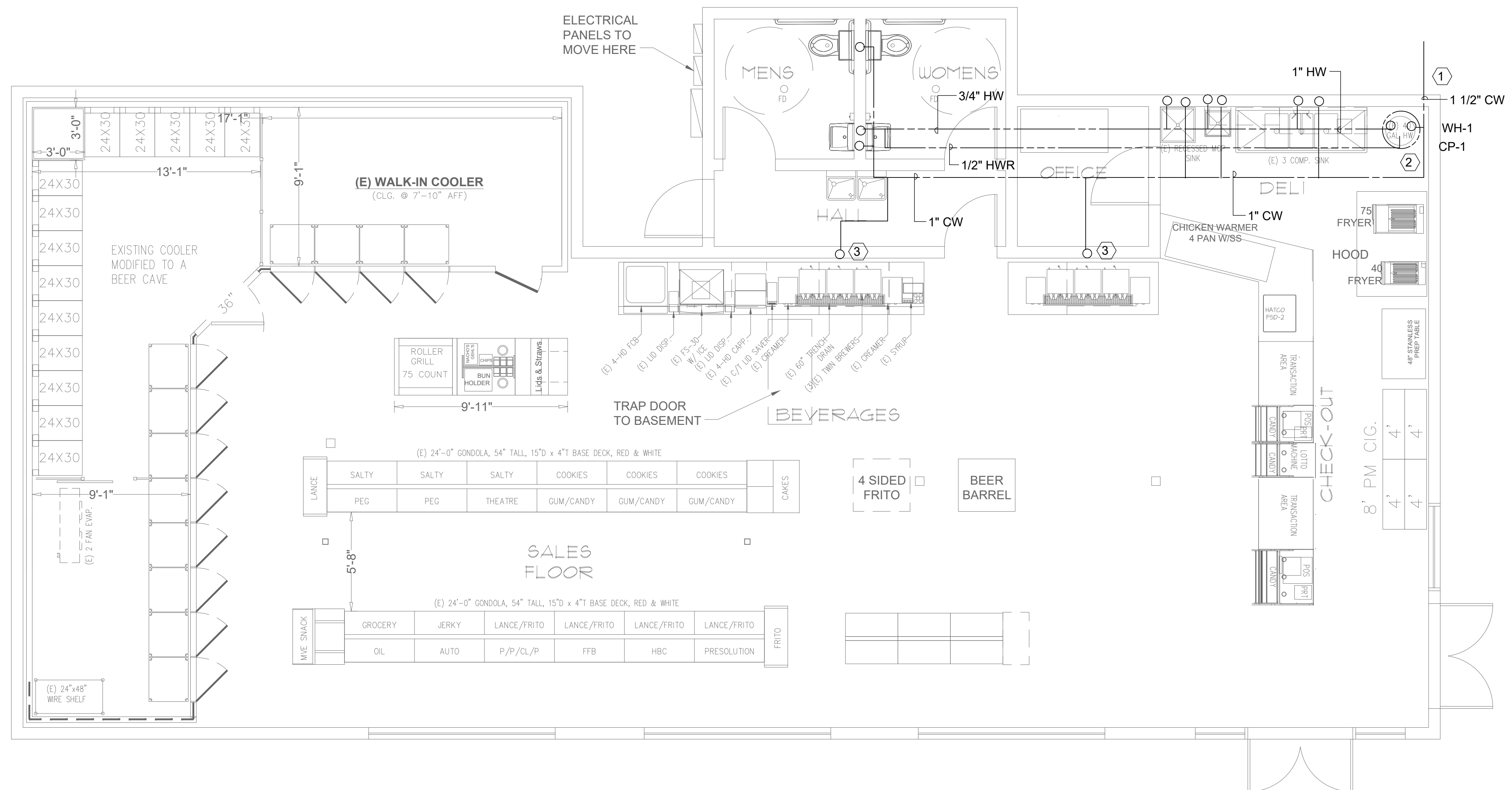
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 OF: 101
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GENERAL NOTES:
 1. CONTRACTOR TO FIELD VERIFY FD, FS, AND HD CONNECTIONS WITH KITCHEN EQUIPMENT AND PROVIDE ALL REQUIRED PIPING AND SIZES AS REQUIRED.
 GCO

- ① REFER TO CIVIL PLANS FOR CONTINUATION OF 4" SW MAIN.
- ② 2" VTR
- ③ 3" VTR
- ④ 4" INDIRECT WASTE TO GREASE TRAP. OWNER SHALL APPLY TO LOCAL CODE FOG PROGRAM FOR REQUIRED SIZE OF GREASE TRAP. COORDINATE EXACT LOCATION OF GREASE TRAP WITH FUELING EQUIPMENT AND SIT EPLAN. EXTEND PIPING AS REQUIRED.
- ⑤ ROUTE CONDENSATE FROM COOLER AND FREEZER COILS TO HUB DRAIN WITH AIR GAP. PROVIDE FREEZE PROTECTION ON CONDENSATE LINE AS REQUIRED.
- ⑥ EXTEND 1 1/2" CONDENSATE FROM EACH RTU TO MOP SINK

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



- ① ROUTE 1 1/2" CW MAIN THRU FLOOR AND BELOW GRADE. EXTEND MAIN TO EXISTING SITE MAIN AS REQUIRED. COORDINATE WITH LOCAL UTILITY & PROVIDE TAP AND METER AS REQUIRED. CONTRACTOR TO PAY FOR ALL INCURRED COST. PROVIDE BFP AS REQUIRED. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGHIN
- ② CONNECT 1" CW TO WH. PROVIDE HWR SYSTEM WITH RECIRC PUMP. INSTALL WH IN PAN WITH EMERGENCY DRAIN PER CODE.
- ③ EXTEND 3/4" CW DN IN WALL FOR KITCHEN EQUIPMENT. COORDINATE EXACT LOCATION WITH KITCHEN PLANS

- GENERAL NOTES:
1. CONTRACTOR TO FIELD VERIFY CW & HW CONNECTIONS WITH KITCHEN EQUIPMENT AND PROVIDE ALL REQUIRED PIPING AND SIZES AS REQUIRED
 2. CONTRACTOR TO PROVIDE POINT OF USE INLINE BACKFLOW PREVENTERS FOR ALL PIECES OF EQUIPMENT REQUIRED BY LOCAL CODE. TEA COFFEE MAKER DISPENSERS, RAPID RINSER, ICE MAKERS, WATER DISPENSER, ETC. TO HAVE BACKFLOW PROTECTION PER CODE. COORDINATE WITH EQUIPMENT VENDOR AND PROVIDE AS REQUIRED.

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PROJECT NUMBER: 6061241
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FLOOR PLAN - PLUMBING
 1/4" = 1'-0"