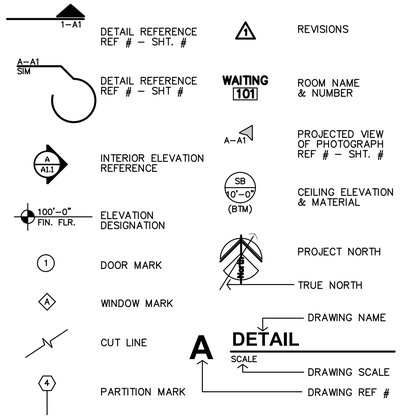
USD 305 KITCHEN 2

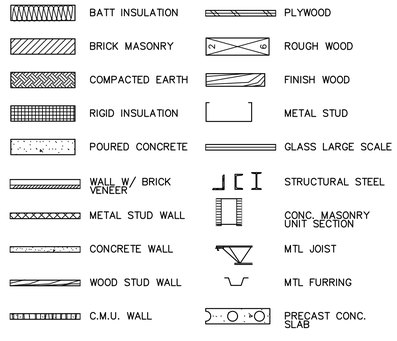
REMODEL & ADDITION

SALINA, **23-3323** **KANSAS**

REFERENCE LEGEND



MATERIAL LEGEND



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1881 Main Street, Suite 301 Kansas City, MO 64108 jgr@jgrarchitects.com

SHEET INDEX

PERMIT SET 2-26-2025

ABBREVIATIONS

&	AND
∠	Angle
@	At
℄	Centerline
ø	Diameter or Round
#	Pound or Number
Acous.	Acoustical
Adj.	Adjustable
A.F.F.	Above Finished Floor
Aggr.	Aggregate
Al.	Aluminum
Approx.	Approximate
Arch.	Architect or Architectural
Asb.	Asbestos
Asph.	Asphalt
A.V.	Audio Visual
Bd.	Board
Bitum.	Bituminous
Bldg.	Building
Blk.	Block
Blk g.	Blocking
Bm.	Beam
Bot.	Bottom
BO	BY OWNER
Brg.	Bearing
Brk.	Brick
Cab.	Cabinet
Clg.	Ceiling
Clr.	Clear
Cntr.	Counter
Col.	Column
Conc.	Conc. Concrete
C.T.	Ceramic Tile
CMU	Concrete Masonry Unit
Ctr.	Center
Dbl.	Double
Det.	Detail
D.F.	Drinking Fountain
Dia.	Diameter
Dim.	Dimension
Dn.	Down
Dr.	Door
Ds.	Downspout
Dwg.	Drawing
Dwr.	Drawer
(E)	Existing
E.	East or Existing
Ea.	Each
E.J.	Expansion Joint
El.	Elevation
Elec.	Electrical
Elev.	Elevator
Eq.	Equal
Equip.	Equipment
E.W.	Each Way
E.W.C.	Elec. Water Cooler
Exist.	Existing
Expo.	Exposed
Exp.	Expansion
Ext.	Exterior
F.A.	Fire Alarm
F.D.	Floor Drain
Fdn.	Foundation
F.E.	Fire Extinguisher
F.E.C.	F.E. Cabinet
Fin.	Finish
Fl.	Floor
Flash.	Flashing
fl.	Flow line
Ft.	Foot or feet
Ftg.	Footing
Furr.	Furring
Fut.	Future
Ga.	Gauge
Galv.	Galvanized
G.B.	Grab Bar
Gl.	Glass
Gnd.	Ground
Gr.	Grade
Gyp.	Gypsum
H.B.	Hose Bibb
H.C.	Hollow Core
Hdwd.	Hardwood
Hdwr.	Hardware
H.M.	Hollow Metal
Horiz.	Horizontal
Hr.	Hour
Hgt.	Height
I.D.	Inside Diameter
Insul.	Insulation
Int.	Interior
Jan	Janitor
Jt.	Joint
Kit.	Kitchen
Lab.	Laboratory
Lam.	Laminate
Lav.	Lavatory
Lkr.	Locker
Lt.	Light
Mas.	Masonry
Max.	Maximum
M.C.	Medicine Cabinet
Mech.	Mechanical
Memb.	Membrane
Met.	Metal
Mfr.	Manufacturer
Mh.	Manhole
Min.	Minimum
Mir.	Mirror
Misc.	Miscellaneous
M.O.	Masonry Opening
Mtd.	Mounted
N.	North
N.I.C.	Not In Contract
No. or #	Number
Nom.	Nominal
N.T.S.	Not To Scale
O/	On or Over
Obs.	Obscure
O.C.	On Center
O.D.	Diameter
Off.	Office
Opng.	Opening
Opp.	Opposite
P.	Paint
Pl.	Plate
P.Lam.	Plastic Laminate
Plas.	Plaster
Plywd.	Plywood
Pr.	Pair
Pt.	Point
P.T.D.	Paper Towel Dispenser
Ptn.	Partition
P.T.R.	Paper Towel Receptacle
Q.T.	Quarry Tile
R.	Riser
Rad.	Radius
R.D.	Roof Drain
Ref.	Reference
Reinf.	Reinforced
Req'd	Required
Resil.	Resilient
Rm.	Room
R.O.	Rough Opening
S.	South
S.B.	Splash Block
S.C.	Solid Core
Sched.	Schedule
S.D.	Soap Dispenser
Sect.	Section
Shr.	Shower
Sht.	Sheet
Sim.	Similar
S.N.D.	Sanitary Napkin Disp.
S.N.R..	Sanitary Napkin Recep.
Spec.	Specification
Sq.	Square
SSt.	Stainless Steel
Std.	Standard
Stl.	Steel
Stor.	Storage
Strl.	Structural
Susp.	Suspended
S.V.	Sheet Vinyl
Sym.	Symmetrical
Tex.	Texture
T.B.	Towel Bar
T.Bd.	Tack Board
Temp.	Tempered
T.&G.	Tongue & Groove
Thk.	Thick
T.O.M.	Top Of Masonry
T.O.S.	Top Of Steel
T.P.	Top Of Pavement
T.P.D.	Toilet Paper Dispenser
T.V.	Television
T.W.	Tackwall
Typ.	Typical
Trd.	Tread
U.O.N.	Unless Otherwise Noted
Ur.	Urinal
V.C.T.	Vinyl Composition Tile
V.T.	Vinyl Tile
V.B.	Vapor Barrier
Vert.	Vertical
Vest.	Vestibule
Vyl.	Vinyl
W.	West
w/	With
w/o	Without
W.C.	Wall Covering
Wd.	Wood
Wp.	Waterproof
Wdw.	Window
Wsct.	Wainscot
Wt.	Weight

CONSULTANTS

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LST Consulting Engineers, PA
4809 Vue Du Lac Place, Suite 301
MANHATTAN, KS. 66503
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fax (785) 587-8039
mail@LSTengineers.com

Structural Engineer ;

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Kansas City, MO 64111
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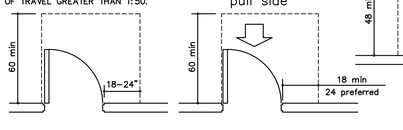
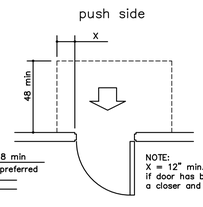
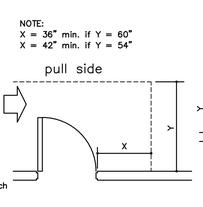


Exterior Landing

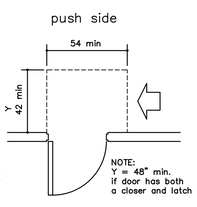
Front Approach – Swinging Door



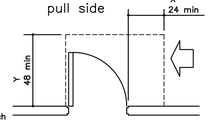
Front Approach – Swinging Door



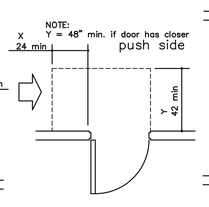
Hinge Side Approach – Swinging Door



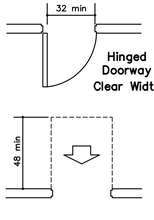
Side Approach – Swinging Door



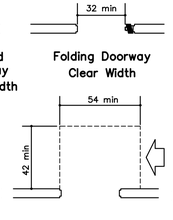
Latch Side Approach Swinging Door



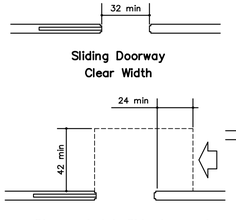
Latch Side Approach Swinging Door



Front Approach – Sliding or Folding Doors



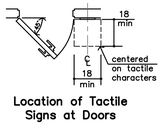
Side Approach – Sliding or Folding Doors



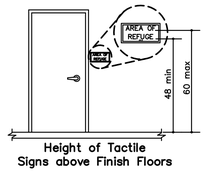
Stop or Latch Side Approach – Sliding or Folding Doors

H STANDARD DOOR APPROACH ADA DIAGRAMS

NO SCALE



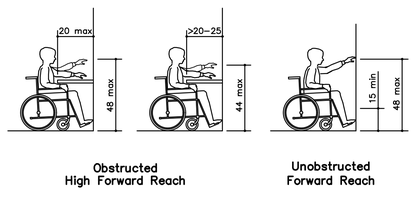
Location of Tactile Signs at Doors



Height of Tactile Signs above Finish Floors

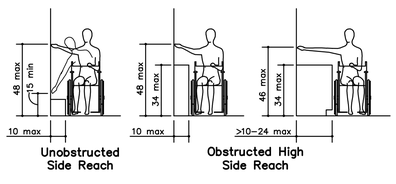
G TACTILE SIGN DIAGRAM

NO SCALE



Obstructed High Forward Reach

Unobstructed Forward Reach



Unobstructed Side Reach

Obstructed High Side Reach

F STANDARD REACH ADA DIAGRAMS

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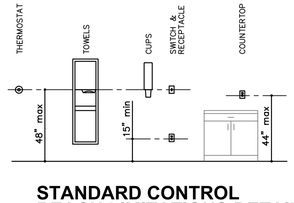

E STANDARD CONTROL REACH LIMITATIONS DETAILS

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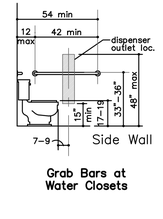
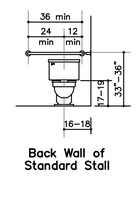
Overlap of Water Closet Clearance in Residential Dwelling Units (Exception)

Clear Floor Space at Water Closet



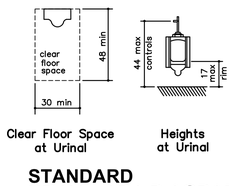
Grab Bars at Water Closets



Back Wall of Standard Stall

D STANDARD TOILET ADA DIAGRAMS

NO SCALE

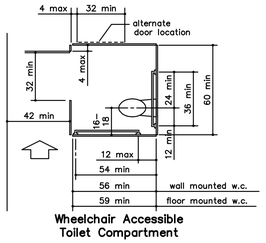


Clear Floor Space at Urinal

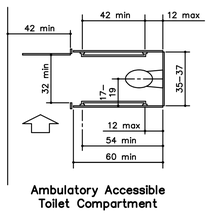
Heights at Urinal

C STANDARD URINAL ADA DIAGRAMS

NO SCALE



Wheelchair Accessible Toilet Compartment



Ambulatory Accessible Toilet Compartment

B STANDARD TOILET STALL ADA DIAGRAMS

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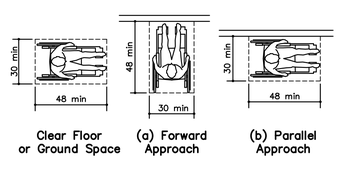


Clear Floor or Ground Space

(a) Forward Approach

(b) Parallel Approach

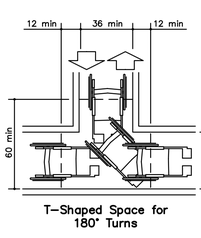
Maneuvering Clearance in an Alcove, Parallel Approach

Maneuvering Clearance in an Alcove Forward Approach

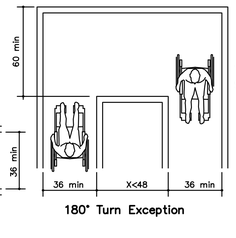
Wheelchair Turning Space

A STANDARD ADA DIAGRAMS

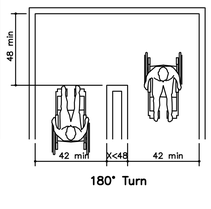
NO SCALE



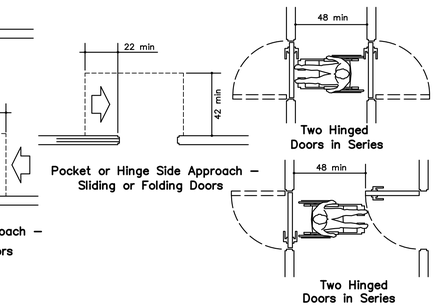
T–Shaped Space for 180° Turns



180° Turn Exception



180° Turn



FOR REFERENCE ONLY

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USD 305 KITCHEN 2

REMODEL & ADDITION

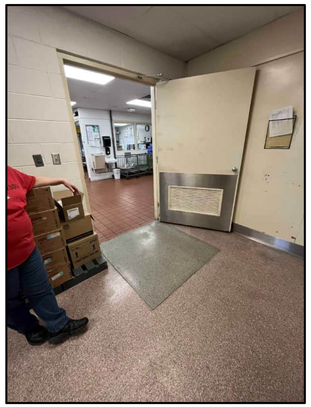
SALINA, KANSAS

CHARLES A. RENZ
LICENSED
5502
3-3-2025
KANSAS
PROFESSIONAL ARCHITECT

REVISION:

DATE: 2–26–2025
JOB: 23–3323
SHEET NO.:

ADA



9 **PHOTOGRAPH**
NO SCALE

8 **PHOTOGRAPH**
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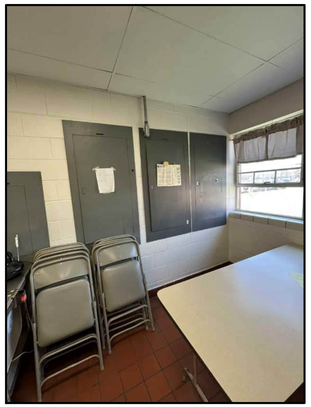

7 **PHOTOGRAPH**
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6 **PHOTOGRAPH**
NO SCALE

5 **PHOTOGRAPH**
NO SCALE

4 **PHOTOGRAPH**
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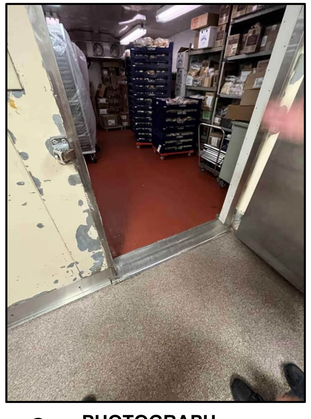

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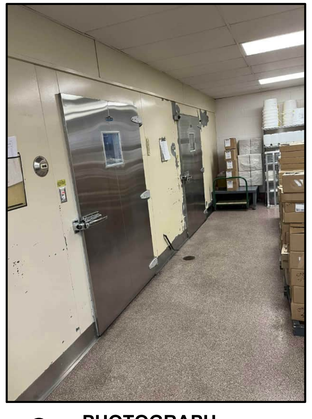

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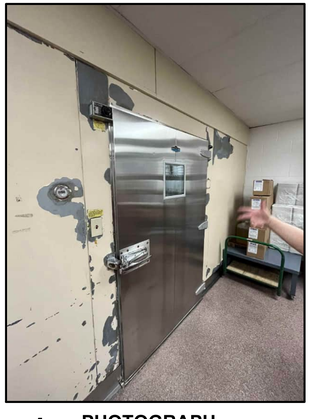


1 **PHOTOGRAPH**
NO SCALE

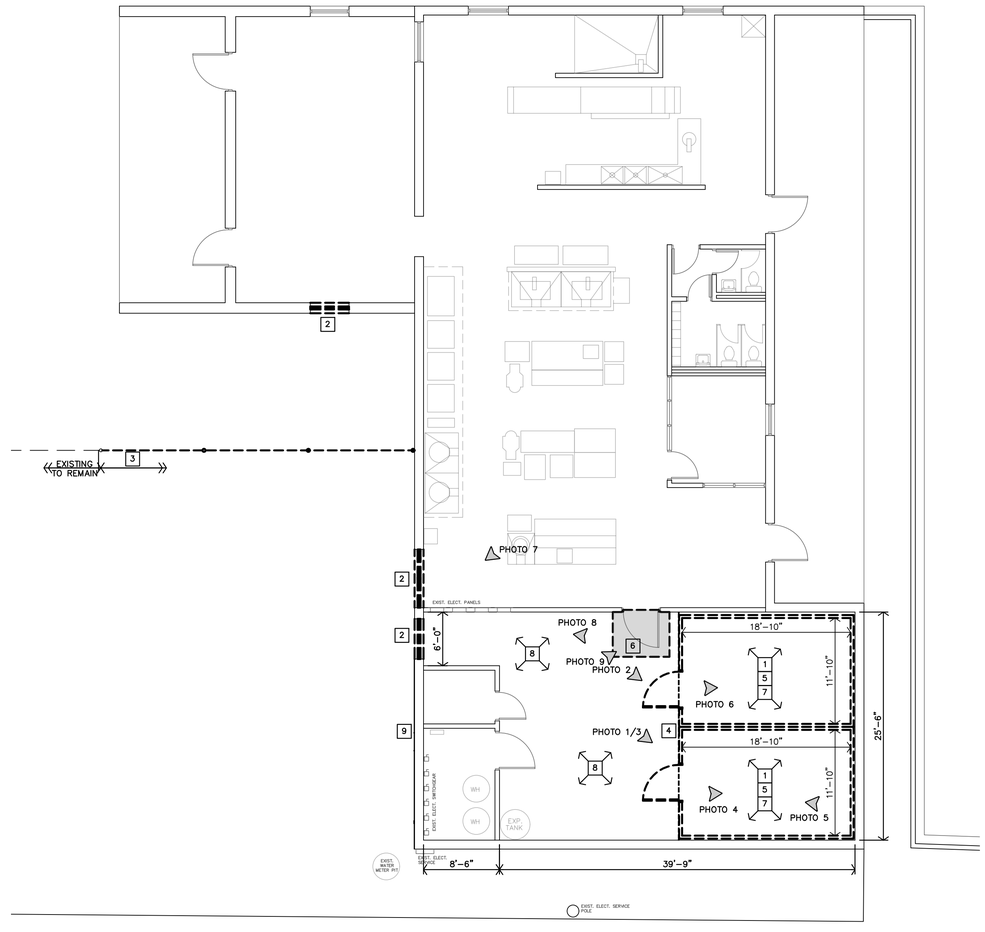
DEMOLITION PLAN NOTES

GENERAL

1. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS.
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE REQUIREMENTS OF THE UTILITY COMPANIES AND THE CITY OF SALINA.
3. WHERE EXISTING BLDG. & SITE COMPONENTS ARE TO BE REMOVED; PATCH & REPAIR THE SURFACES TO MATCH EXIST. UNLESS NOTED OTHERWISE.
4. REMOVE EXIST. BLDG. & SITE COMPONENTS AS INDICATED, IMPLIED OR AS REQUIRED SCHEMATICALLY SHOWN AS DASHED LINES. FIELD VERIFY ALL LOCATIONS.
5. THE ELECTRICAL & MECHANICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CORE DRILLING FOR PIPING & CONDUIT INSTALLATION.
6. ALL OTHER CUTTING, PATCHING & FINISHING, U.N.O. SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
7. DEMOLITION PLAN IS SCHEMATIC AND FOR REFERENCE PURPOSES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION, REMOVAL OF ITEMS, PATCHING, AS REQUIRED FOR NEW CONSTRUCTION. CONTRACTOR SHALL VISIT AND BECOME FAMILIAR WITH THE SITE PRIOR TO BIDDING AND INCLUDE IN HIS BID ALL DEMOLITION PLANS.
8. REFERENCE COMPLETE CONSTRUCTION DOCUMENTS FOR ADDITIONAL SPECIFIC DEMOLITION REQUIREMENTS.

SPECIFIC

1. OWNER WILL REMOVE EXISTING INSULATED COOLER/FREEZER WALLS, BASE, DOORS & CEILING INCLUDING ALL ASSOCIATED TRIM.
2. REMOVE EXISTING WINDOW UNIT. SAW-CUT & REMOVE EXISTING MASONRY WALL PORTION BELOW WINDOW TO CREATE NEW OPENING.
3. REMOVE PARTIAL EXISTING STEEL PIPE W/ CABLE FENCE. SECURE REMAINING CABLE TO REMAINING STEEL PIPE.
4. REMOVE EXISTING BULKHEAD PANELS ABOVE COOLERS
5. REMOVE EXISTING PAINT ON CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW EPOXY RESIN AS RECOMMENDED BY EPOXY RESIN MANUFACTURER.
6. LIGHTLY SCORE STRAIGHT LINE IN EXISTING CONCRETE OF APPROXIMATELY 12" BEYOND ENTRY AREA. REMOVE EXISTING EPOXY RESIN. FLOAT NEW EPOXY RESIN OUT TO SCORED AREA.
7. REMOVE EXISTING 2" WIDE x 4" DEEP RIGID INSULATION LOCATED DIRECTLY BELOW COOLER/FREEZER WALLS. PURGE VOID W/ GROUT PRIOR TO INSTALLATION OF NEW EPOXY RESIN FLOORING.
8. EXISTING EPOXY RESIN FLOORING TO REMAIN. REPLACE EXISTING SUSPENDED ACOUSTICAL CEILING GRID & TILES W/ NEW AS WELL AS LIGHT FIXTURES.
9. EXISTING FIBER OPTICS LINE TO REMAIN. VERIFY LOCATION OF LINE. PROTECT DURING CONSTRUCTION.



A DEMOLITION FLOOR PLAN
1/8"=1'-0"

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USD 305 KITCHEN 2

REMODEL & ADDITION

SALINA, KANSAS

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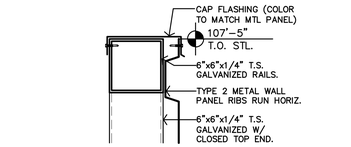
KANSAS
PROFESSIONAL ARCHITECT

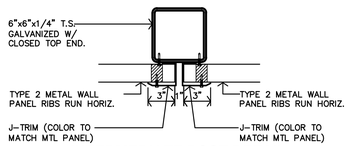
REVISION:

DATE: 2-26-2025
JOB: 23-3323
SHEET NO.:

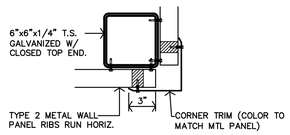
D1.1



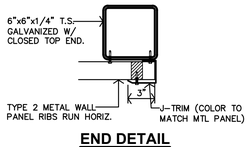
TOP DETAIL



INTERMEDIATE POST DETAIL



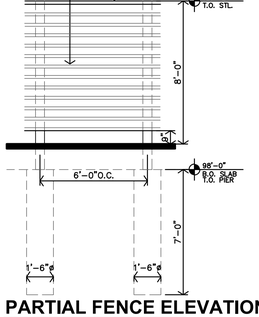
CORNER DETAIL



END DETAIL

D FENCE DETAILS

3"=1'-0"



C PARTIAL FENCE ELEVATION

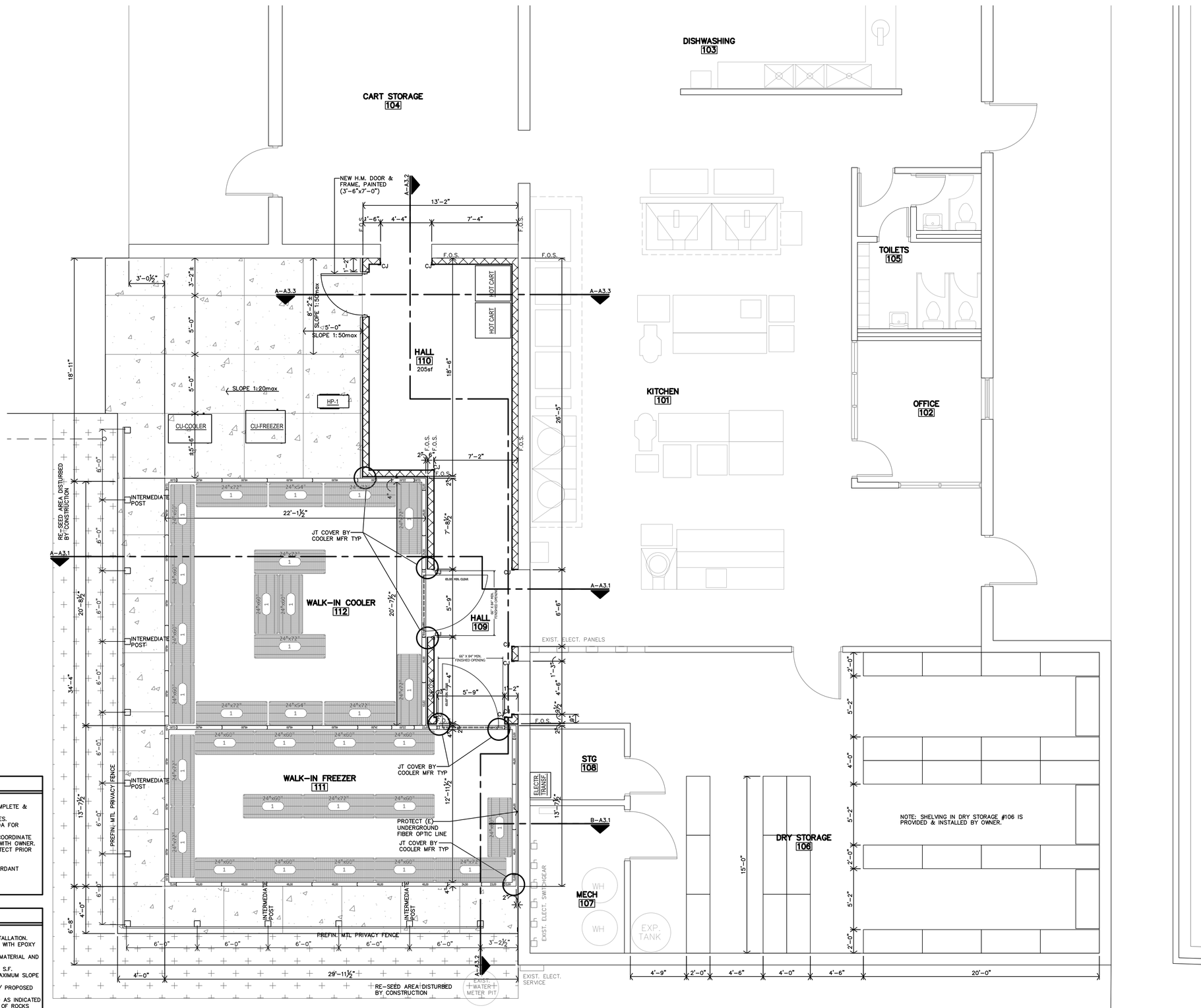
1/4"=1'-0"

ARCHITECTURAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & CONDITIONS.
2. INSTALL MATERIALS AND/OR FINISHES AS INDICATED, IMPLIED OR AS REQUIRED FOR COMPLETE & FINISHED INSTALLATION.
3. ALL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE BUILDING CODES & ORDINANCES.
4. ALL CONSTRUCTION SHALL BE IN CONFORMANCE TO ADA REQUIREMENTS. REFERENCE ADA FOR TYPICAL MINIMUM CLEARANCE REQUIRED.
5. ALL DOOR HARDWARE SHALL BE LEVER TYPE LATCH SETS UNLESS NOTED OTHERWISE. COORDINATE WITH MFR. FOR ADA INSTALLATION REQUIREMENTS. COORDINATE KEYING REQUIREMENTS WITH OWNER.
6. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS, NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH WORK SO THAT ANY ISSUES MAY BE CLARIFIED.
7. DOORS ARE TYPICALLY LOCATED WITH HINGE-SIDE JAMB 4" FROM ADJACENT WALL.
8. ANY WOOD USED IN WALLS, INCLUDING CONCEALED BLOCKING, ETC SHALL BE FIRE RETARDANT TREATED.
9. FURNITURE & SHELVING SHOWN IS BY OWNER.
10. CJ = 7'-0" TALL STAINLESS STEEL CORNER GUARD.

GENERAL SITE PLAN NOTES

1. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS.
2. INSTALL MATERIALS AND FINISHES AS INDICATED, IMPLIED OR AS REQUIRED FOR FINISH INSTALLATION.
3. WHERE NEW CONCRETE ABUTS THE BUILDING, PROVIDE 3/4" EXPANSION JOINT & SEAL TOP WITH EPOXY SEALER.
4. INSTALL EXPANSION JOINTS IN CONCRETE SIDEWALK PAVING AT ±60" O.C. PROVIDE FILLER MATERIAL AND SEALANT. COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS OF EXPANSION JOINTS.
5. INSTALL CONTROL JOINTS IN CONCRETE ROUGHLY SQUARE AND AREAS NOT TO EXCEED 100 S.F.
6. EXTERIOR DOOR LANDINGS SHALL BE WITHIN 1/2" OF INTERIOR FINISH FLOOR ELEVATION. MAXIMUM SLOPE IN ANY DIRECTION SHALL BE 1:50
7. FINISH FLOOR ELEVATION SHALL BE VERIFIED BY GENERAL CONTRACTOR AND CONFIRMED W/ PROPOSED GRADING TO PROVIDE DRAINAGE AWAY FROM THE BUILDING
8. LANDSCAPING, SEEDING, PLANTINGS, ETC. TO BE BY OC. ALL AREAS AROUND THE SITE AND AS INDICATED ON THE SITE PLAN SHALL BE FINE GRADED WITH MIN. 2" TOP SOIL AREAS SHALL BE FREE OF ROCKS AND CLUMPS AS SUITABLE FOR SEEDING OR SODDING OF BERMUDA GRASS.
9. NEW PEDESTRIAN SIDEWALKS SHALL NOT HAVE A CROSS SLOPE GREATER THAN 1:50 AND SHALL NOT SLOPE IN THE DIRECTION OF TRAVEL GREATER THAN 1:20.
10. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE REQUIREMENTS OF THE UTILITY COMPANIES AND THE CITY OF SALINA.
11. ALL DAMAGED PAVING AND LANDSCAPING CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.



A FLOOR PLAN

1/4"=1'-0"

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SALINA, KANSAS

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5502
3-3-2025
KANSAS
PROFESSIONAL ARCHITECT

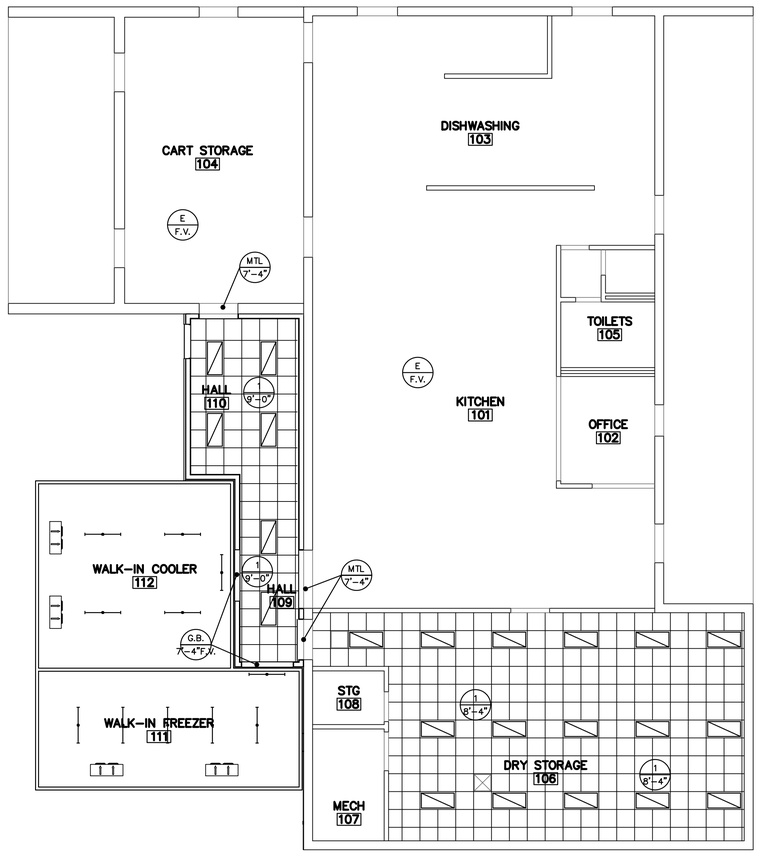
REVISION:	
DATE:	2-26-2025
JOB:	23-3323
SHEET NO.:	A1.1

CEILING TYPES	
	REFER SPECIFICATIONS
1	2x4 WASHABLE
GB	GYP BD (PAINTED)
MTL	PREFIN. METAL
E	EXISITNG

1 / 8'-8" — CLG. TYPE / CLG. HEIGHT A.F.F.

REFLECTED CEILING PLAN NOTES

1. CONTRACTOR SHALL COORDINATE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL FIXTURE LOCATIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT OR DISCREPANCY.
2. MECHANICAL/ELECTRICAL. FIXTURES @ ALL CEILINGS SHALL BE HUNG IN CONFORMANCE TO U.L. SYSTEM REQUIREMENTS.
3. CEILING MOUNTED MECHANICAL EQUIPMENT AND SUSPENDED MECHANICAL EQUIPMENT MUST BE SUSPENDED DIRECTLY FROM THE STRUCTURE.
4. AREAS ABOVE THE FINISHED CEILING ARE PART OF A RETURN AIR PLENUM ALL MATERIALS INCLUDING THE INSULATION SHALL HAVE FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 50
5. SPECIAL CEILING GRID FRAMING IS REQUIRED AT SOME CEILING MOUNTED MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH MECHANICAL UNITS AND PROVIDED ALL SUSPENSION, TRIM, CLIPS, ETC. AS REQUIRED FOR A NEAT, FINISHED, AND SECURE CEILING SYSTEM.
6. WHERE SUSPENSION DEVICES, WIRES, RODS, ETC. PENETRATE CEILING GRID AND/OR TILE OR G.B. PENETRATIONS SHALL BE NEAT AND CLEANLY CUT. PENETRATION OPENING SHALL BE AS SMALL AS POSSIBLE. SEAL AT G.B.



A **REFLECTED CEILING PLAN**
1/8"=1'-0"

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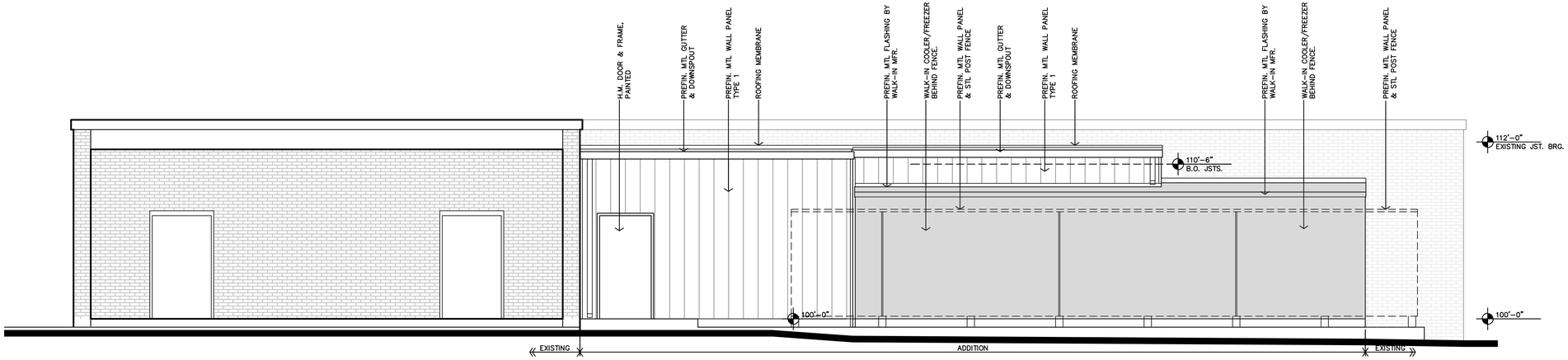
SHEET NO.:

A1.2



C WEST ELEVATION
1/8"=1'-0"

INTERIOR FINISH SCHEDULE

FINISHES & INSTRUCTIONS

P1 LATEX ENAMEL — SC SEALED CONCRETE — RB RUBBER COVE BASE — FP FIBERGLAS REINF. PANEL
P2 EPOXY PAINT — ER EPOXY RESIN — VCT VINYL COMPOSITION TILE

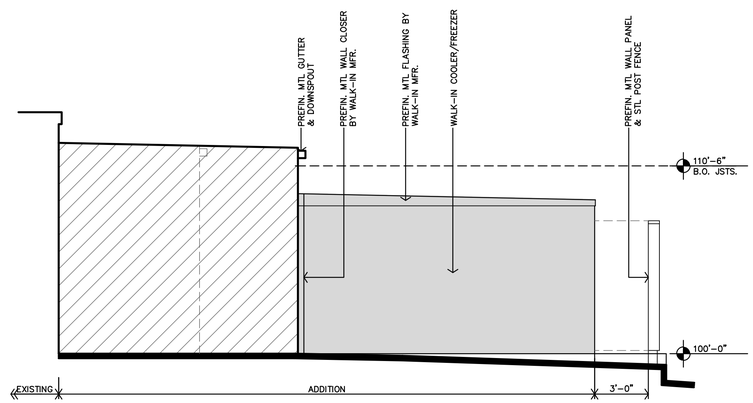
NO.	DESCRIPTION	FLOOR			BASE		N.WALL			E.WALL			S.WALL			W.WALL			CEILING			REMARKS
		SEALED CONC.	EXISTING TO REMAIN	EPOXY RESIN	COOLER/FREEZER	RUBBER BASE	EXISTING TO REMAIN	5/8" TYPE-X GYP. BD.	EXISTING TO REMAIN	COOLER/FREEZER	5/8" TYPE-X GYP. BD.	EXISTING TO REMAIN	COOLER/FREEZER	5/8" TYPE-X GYP. BD.	EXISTING TO REMAIN	COOLER/FREEZER	5/8" TYPE-X GYP. BD.	EXISTING TO REMAIN	COOLER/FREEZER	2x2 SUSPENDED	EXISTING TO REMAIN	COOLER/FREEZER	
101	KITCHEN		X				X		X			X			X			X			X		
102	OFFICE		X				X		X			X			X			X			X		
103	DISHWASHING		X				X		X			X			X			X			X		
104	CART STORAGE		X				X		X			X			X			X			X		
105	TOILETS		X				X		X			X			X			X			X		
106	DRY STORAGE		X	ER			P2		P2			P2			P2			P2		●			1,2,3
107	MECH.		X				X		X			X			X			X			X		
108	STOR.		X				X		X			X			X			X			X		
109	HALL	SC				RB		P2			P2			P2			P2			●			
110	HALL	SC				RB		P2			P2			P2			P2			●			
111	WALK-IN FREEZER				●					●			●			●			●			●	
112	WALK-IN COOLER				●					●			●			●			●			●	

GENERAL NOTES:

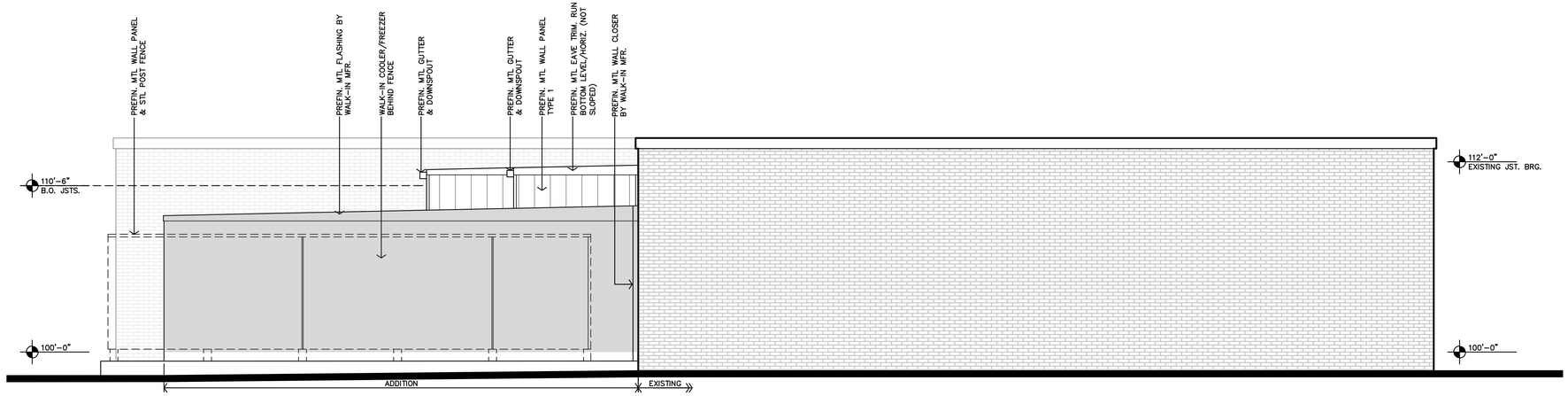
A. INSTALL VINYL, RUBBER, OR ALUMINUM TRANSITION STRIP BETWEEN FLOOR MATERIAL OF DIFFERING HEIGHTS, INCLUDING BUT NOT LIMITED TO CONCRETE/VCT TRANSITIONS.
B. ALL GYPSUM BOARD AREAS WHICH ARE ACCESSORIES TO THE ROOM INCLUDING BUT NOT LIMITED TO SOFFITS, BULKHEADS, TRIM, ETC. SHALL BE PAINTED REGARDLESS OF WHETHER IT IS SPECIFICALLY INDICATED PER SCHEDULE.
C. ALL G.B. WALLS & PERMANENT PARTITIONS SHALL RECEIVE RUBBER BASE UNLESS NOTED OTHERWISE.
D. WALL TYPE SHOWN FOR GENERAL INFORMATION ONLY. CONTRACTOR SHALL COORDINATE WALL MATERIAL W/ DRAWINGS AND FIELD CONDITIONS. ALL AREAS INDICATED TO RECEIVE NEW FINISH SHALL RECEIVE COMPLETE FINISH AS SCHEDULED AT ENTIRE ROOM. CONTRACTOR SHALL COORDINATE FINISHES AND ACCENTS WITH DETAILS AND INTERIOR ELEVATIONS.
E. FLOORING CONTRACTOR SHALL VERIFY THAT SUBFLOOR IS LEVEL AND PROPERLY PREPPED PRIOR TO INSTALLATION OF ANY FLOORING MATERIALS.
F. CONTRACTOR SHALL VERIFY THAT FLOORS ARE PREPPED/"FLOORSTONED" FOR LEVEL TRANSITION BETWEEN DIFFERING MATERIALS.
G. ALL CONTROL JOINTS AT EXPOSED CONCRETE FLOORS SHALL RECEIVE SEALANT COMPATIBLE W/ FLOOR SEALER.
H. CONTRACTOR SHALL COORDINATE W/ INTERIOR ELEVATIONS, FLOOR PLANS AND MISCELLANEOUS DETAILS TO VERIFY ALL AESTHETIC ACCENTS AND DETAILS.

SPECIFIC NOTES:

1. LIGHTLY SCORE STRAIGHT LINE IN EXISTING CONCRETE OF APPROXIMATELY 12" BEYOND ENTRY AREA. REMOVE EXISTING EPOXY RESIN. FLOAT NEW EPOXY RESIN OUT TO SCORED AREA.
2. REPLACE EXISTING SUSPENDED CEILING SYSTEM (GRID & ACOUSTICAL TILE) W/ NEW. REFERENCE REFLECTED CEILING PLAN.
3. REMOVE EXISTING PAINT ON CONCRETE FLOOR SLAB @ EXISTING COOLER & FREEZER AREAS FOR INSTALLATION OF NEW EPOXY RESIN AS RECOMMENDED BY EPOXY RESIN MANUFACTURER.



B NORTH ELEVATION
1/8"=1'-0"



A SOUTH ELEVATION
1/8"=1'-0"

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REVISION:

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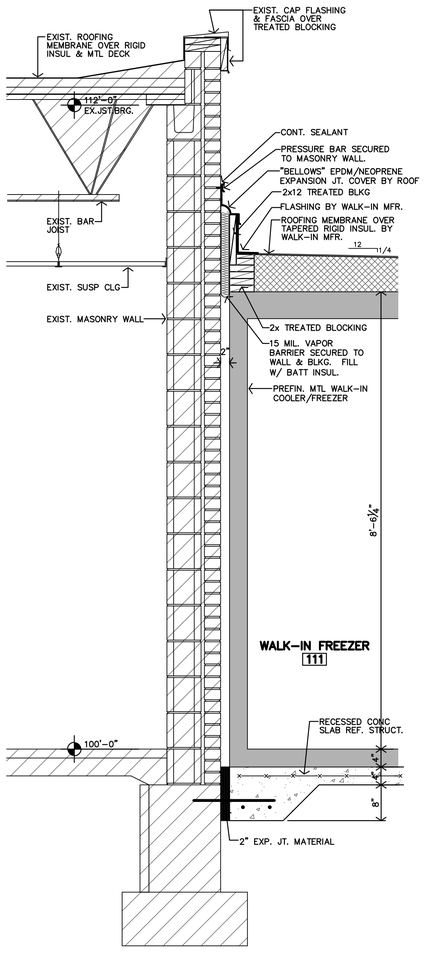
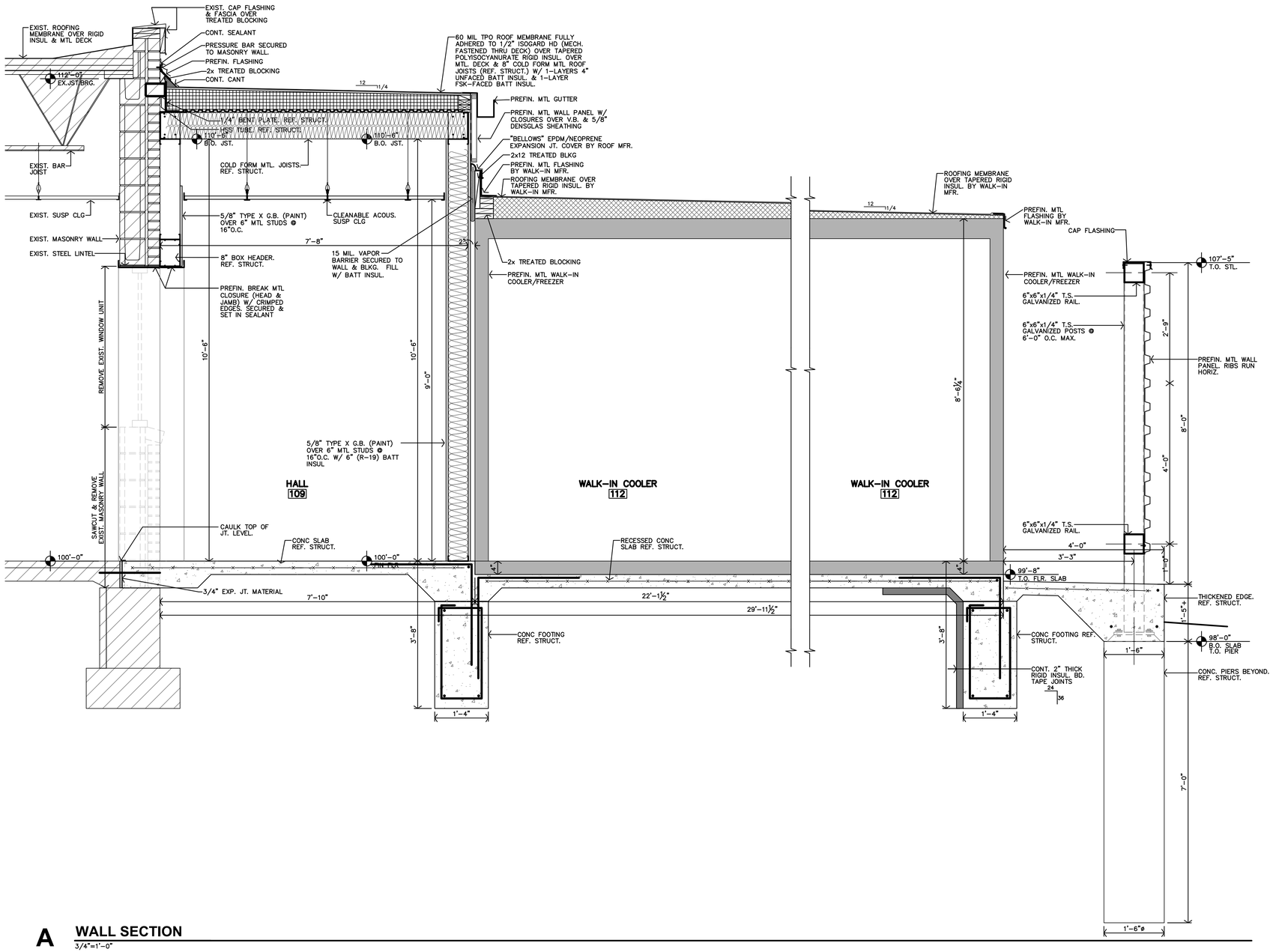
SHEET NO.:

A2.1



B **WALL SECTION**
3/4"=1'-0"



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

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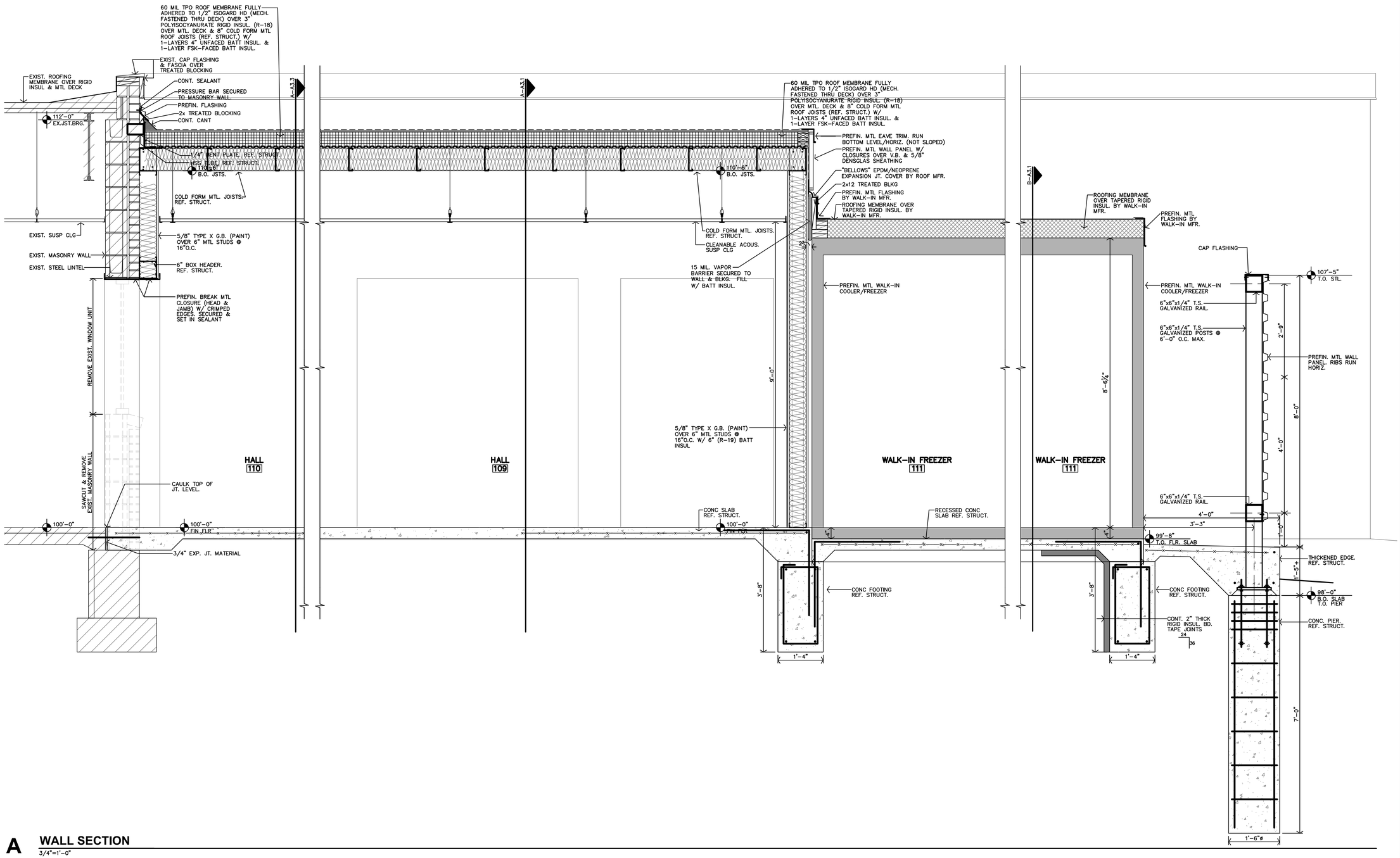

A **WALL SECTION**
3/4"=1'-0"

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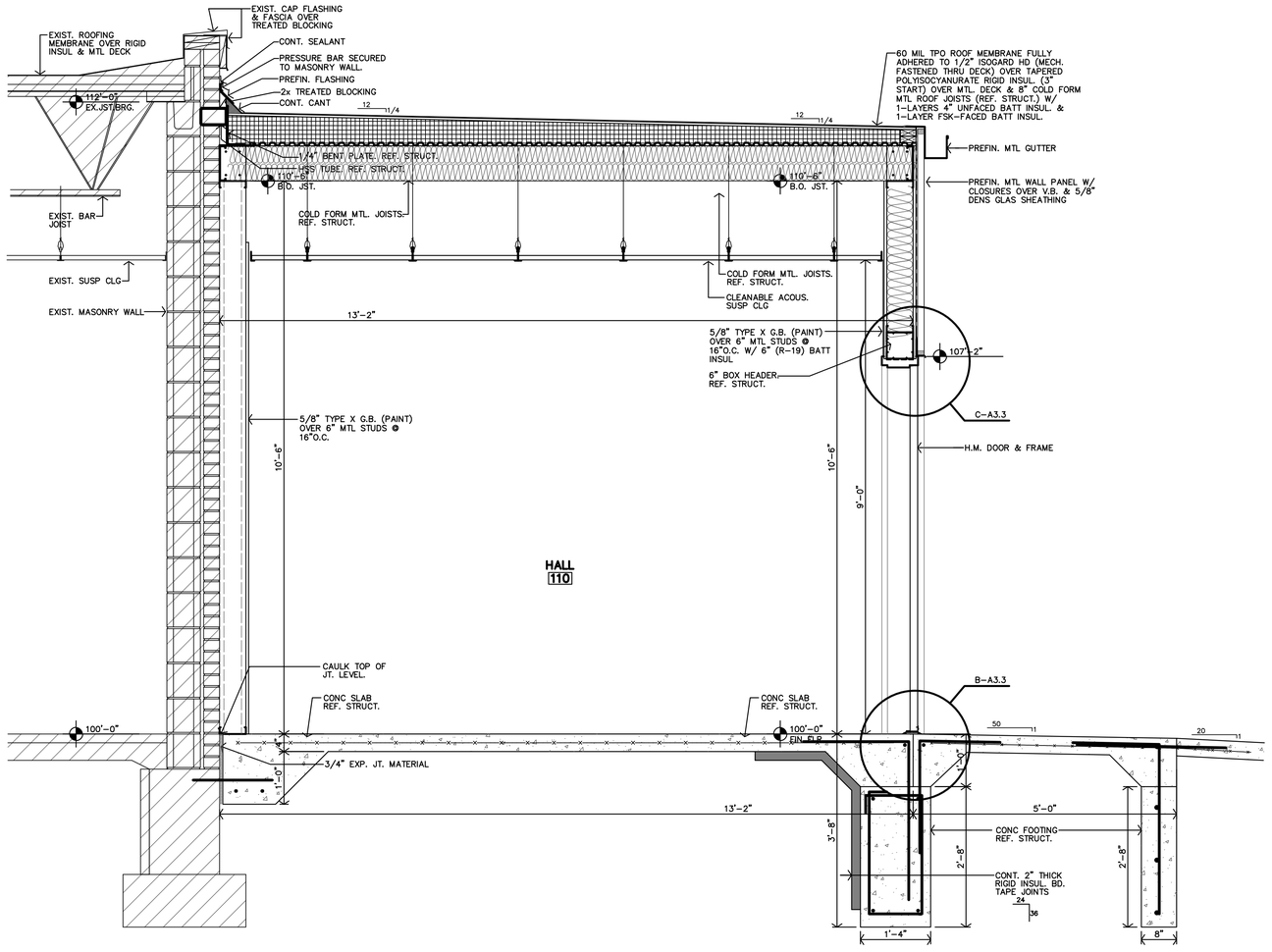
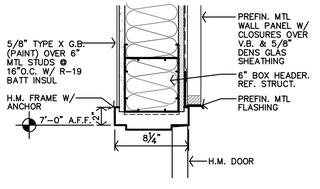
SHEET NO.:

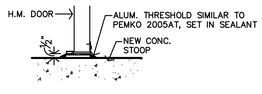
A3.2



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



C **DOOR HEAD**
1 1/2"=1'-0" JAMB SIMILAR



B **DOOR THRESHOLD**
1 1/2"=1'-0"

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USD 305 KITCHEN 2
REMODEL & ADDITION
SALINA, KANSAS

CHARLES A. RENZ
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3-3-2025
KANSAS REGISTERED PROFESSIONAL ARCHITECT

REVISION:

DATE: 2-26-2025
JOB: 23-3323
SHEET NO.:
A3.3

GENERAL NOTES - STRUCTURAL

1. General Information:

   A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
   B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding
   C. All design and construction work for this project shall conform to the requirements of the 2012 International Building Code, as amended by the City of Salina, Kansas.
   D. These drawings are for this specific project and no other use is authorized.

2. Structural Design Load Criteria:

   A. Floor Live= 100psf
   B. Roof Live= 20psf
   C. Snow= Pg= 20psf, Pf=15.4psf, I_s = 1.0
      Ce=1.1, Ct=1.0, Drift per ASCE/SEI 7-10
   D. Lateral Loads:
      1.) Wind V=115 mph, Exposure C
      Occupancy [Risk] Category III, Iw=1.0
      GCpi=+/-0.18
      Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7-10. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.
      2.) Seismic: S_s = 0.098, S_1 = 0.048
      Occupancy [Risk] Category III, Ie=1.25,
      Site Classification D; Sds=0.105; Sd1=0.077
      Seismic Design Category B
      Basic Seismic Force-resisting System:
      A1.7 - Light-framed walls with shear panels of all other materials
   E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 2012 International Building Code.

3. Concrete:

   A. All concrete for foundations (grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
   B. All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
   C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
   D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
   E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
   F. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material.
   G. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
   H. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
   I. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
   J. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
   K. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel:

   A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A1064.
   B. Clear coverage of concrete over reinforcing steel shall be as follows:

Concrete placed against earth	3"
Formed concrete against earth	2"
Slabs	1"
Beams or Columns	1-1/2"
Other	2"

   All coverage shall be nominal bar diameter minimum.
   C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
   D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
   E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
   F. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.

5. Structural Steel:

   A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
   B. All welding shall conform to the recommendations of the AWS.
   C. All exterior steel and connections shall be hot-dip galvanized.
   D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Steel Construction Manual "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2Δ from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his seal. The above loading information is given at the service-load level. Allowable Stress Design is to be used in the selection and completion of the connection design and details.
   E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At building perimeter columns and columns at braced frames washers shall be welded all around to the column base plate with 3/16Δ fillet weld.

6. Post-Installed Anchors:

   A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post-installed anchors. The general contractor shall coordinate an on-site meeting with the post-installed anchor manufacturer field representative and subcontractor performing the anchor installation to educate the construction team on the anchor installation guidelines and requirements. The contractor shall send a record copy of the meeting meetings to the design team.
   B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
   C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
   D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
   E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
   F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Foundations:

   A. The soil investigation was not prepared for this addition. The original building utilized shallow foundations with an allowable bearing pressure of 3,500psf as recommended in the geotechnical investigation report prepared by Kleinfelder, Project No. 58042. Soil at this addition shall be field verified to safely sustain 2,000psf bearing.
   B. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill or undisturbed soil capable of safely sustaining 2,000psf.
   C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
   D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
   E. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

8. Light Gage Structural Stud Framing:

   A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
   B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
   C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
   D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
   E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.

9. Shop Drawing Review:

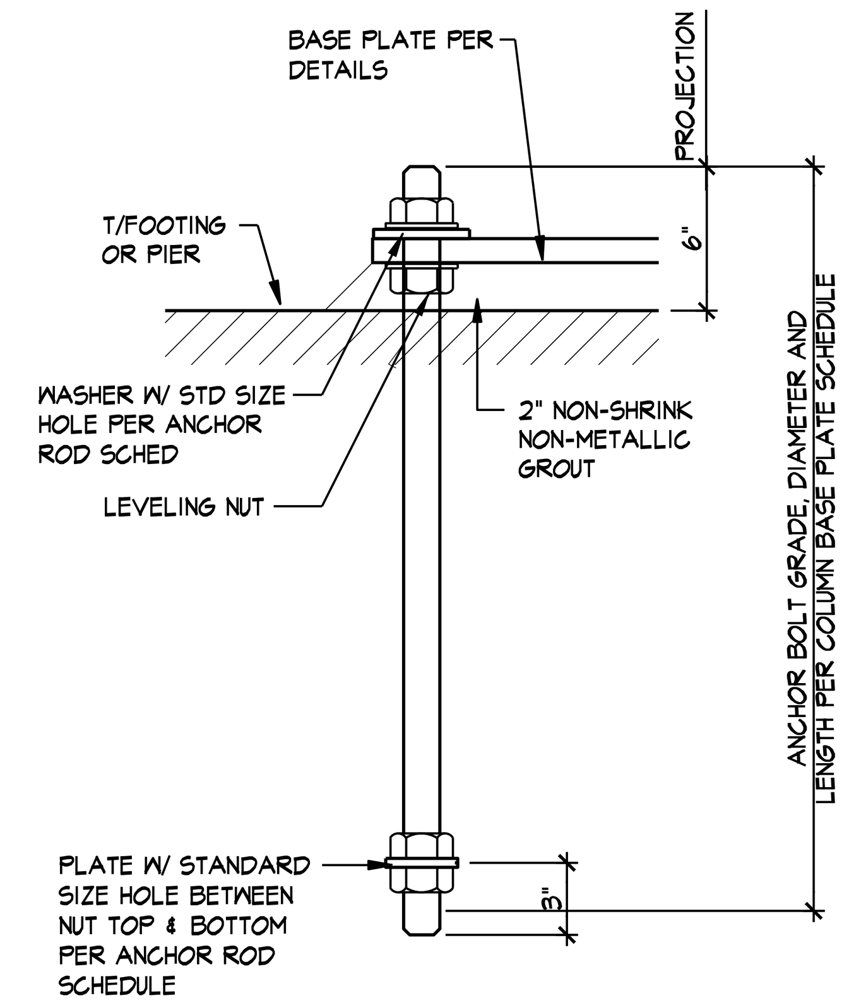
   A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred submittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
   B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
      1) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
      2) Review and approve each submission.
      3) Stamp each submission as approved.
   C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
   D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
      1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
      2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
      3) Construction and control joint plans and/or elevations.
      4) Structural steel shop drawings including erection drawings and piece details. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
      5) Miscellaneous anchors shown on the structural drawings.
   E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

10. Statement of Structural Special Inspection:

   A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2012 International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
   B. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
      1) Shop Fabrication - structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop
      2) Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
      3) Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI QA/QC.
      4) Concrete Construction per Section 1705.3 and Table 1705.3
         a. Reinforcing Steel Placement
         b. Reinforcing Steel Welding
         c. Cast in Place Anchors
         d. Post Installed Anchors
         e. Design Mix Verification
         f. Concrete Sampling and Testing
         g. Concrete Placement
         h. Concrete Curing
      5) Verification of Soils per Table 1705.6
   C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
   D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
   E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

11. Copyright and Disclaimer:

   A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
   B. I, Christopher A. Beverlin, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



TYPICAL ANCHOR BOLT DETAIL

SECTION 1/S0.1
¾" = 1'-0"

ANCHOR-ROD CRITERIA

ANCHOR-ROD DIAMETER	MIN. PLATE WASHER HOLE DIAMETER	MIN. PLATE WASHER SIZE	MIN. PLATE WASHER THICKNESS	EMBEDDED ANCHOR PLATE SIZE
3/4"	1 5/16"	2"	1/4"	1/2"x2 1/2"x2 1/2"

NOTES:
1. HOLE SIZES PROVIDED ARE BASED ON ANCHOR ROD SIZE AND CORRELEATE WITH ACI 117 (ACI, 2010)
2. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.
3. HOLE IN PLATE WASHER SHALL BE 1/16" LARGER THAN ANCHOR DIAMETER.
4. WELD PLATE WASHER TO BASEPLATE AT BASEPLATE TYPE B WITH ⅛" FILLET AT 4-SIDES.

STRUCTURAL ABBREVIATIONS

@	AT	LSLT	LONG-SLOTTED HOLE TRANSVERSE
&	AND	LTWT	LIGHTWEIGHT
Φ	ROUND, DIAMETER	M	MOMENT FORCE
ADTL	ADDITIONAL	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MFGR	MANUFACTURER
ARCH	ARCHITECTURAL	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
B/	BOTTOM OF	MSRY	MASONRY
BM	BEAM	MTL	METAL
BOTT	BOTTOM	NF	NEAR FACE
BRG	BEARING	NS	NEAR SIDE
C	CAMBER	NTS	NOT TO SCALE
CD-#	CONCRETE DECK TYPE	NW	NORMAL WEIGHT
CJ	CONSTRUCTION/CONTROL JOIN	OC	ON CENTER
CJP	COMPLETE JOINT PENETRATION	OF	OUTSIDE FACE
CL	CENTERLINE	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	OVS	OVERSIZED HOLE
CONC	CONCRETE	P	AXIAL FORCE
CONN	CONNECTION	PAF	POWDER ACTUATED FASTENER
CONT	CONTINUOUS	PC	PRECAST
COORD	COORDINATE	PCF	POUNDS PER CUBIC FOOT
COV, CVR	COVER	PEMB	PRE-ENGINEERED METAL BUILDING
CTR	CENTER	PERP	PERPENDICULAR
DBL	DOUBLE	PL	PLATE
DET	DETAIL	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PLSTR	PILASTER
DIM	DIMENSION	PJP	PARTIAL JOINT PENETRATION
DL	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DWG	DRAWING	RAD	POUNDS PER SQUARE INCH
EA	EACH	QTY	RADIUS
EF	EACH FACE	RD-#	ROOF DECK TYPE
EJ	EXPANSION JOINT	REF	REFERENCE
EL, ELEV	ELEVATION	REINF	REINFORCEMENT
EMBED	EMBEDMENT, EMBEDDED	REQD	REQUIRED
ENGR	ENGINEER	REV	REVISION
EOD	EDGE OF DECK	RLL	ROOF LIVE LOAD
EOR	ENGINEER OF	RTU	ROOF TOP UNIT
EOS	EDGE OF SLAB	SC	SLIP CRITICAL
EQ	EQUAL	SCHED	SCHEDULE(D)
EQUIP	EQUIPMENT	SECT	SECTION
EW	EACH WAY	SHT	SHEET
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SJ	SAW JOINT
EXTG, EXIST	EXISTING	SL	SNOE LOAD
FD-#	FLOOR DECK TYPE	SOG	SLAB-ON-GRADE
FDN	FOUNDATION	SOG-#	SLAB-ON-GRADE TYPE
FF	FAR FACE	SPCG	SPACING
FIN	FINISH	SPEC	SPECIFICATION
FLR	FLOOR	SPRT	SUPPORT
FS	FAR SIDE	SQ	SQUARE
FTG	FOOTING	SS	STAINLESS STEEL
FV	FIELD VERIFY	SSLT	SHORT-SLOTTED HOLE TRANSVERSE
GA	GAGE	STD	STANDARD
GALV	GALVANIZE(D)	STIFF	STIFFENER
GEN	GENERAL	STIR	STIRRUP
GR	GRADE	STL	STEEL
HORIZ	HORIZONTAL	STRUCT	STRUCTURE, STRUCTURAL
HSS	HOLLOW STRUCTURAL SECTION	SW	SHEARWALL
IF	INSIDE FACE	T/	TOP OF
IJ	ISOLATION JOINT	THRU	THROUGH
INFO	INFORMATION	TOF	TOP OF FOOTING
INT	INTERIOR	TOS	TOP OF STEEL, TOP OF SLAB
JST	JOIST	TRANS	TRANSVERSE
JT	JOINT	TYP	TYPICAL
K	KIPS (1000 LBS)	UNO	UNLESS NOTED OTHERWISE
KSF	KIPS PER SQUARE FOOT	V	SHEAR FORCE
KSI	KIPS PER SQUARE INCH	VERT	VERTICAL
LBS, #	POUNDS	W/	WITH
Ld	DEVELOPMENT LENGTH	W/O	WITHOUT
LL	LIVE LOAD	WF	WIDE FLANGE
LLH	LONG LEG HORIZONTAL	WL	WIND LOAD
LLV	LONG LEG VERTICAL	WP	WORK POINT
LONG	LONGITUDINAL	WWF	WELDED WIRE FABRIC

LEGEND:

⟷	SPAN DIRECTION OF DECK AND DECK/SLAB TYPE PER SCHED. ON S0.1
HSS 6x6x1/4	COLUMN SIZE
(CF1)	BOX HEADER AND JAMB SIZE AND CONNECTION REQUIREMENTS PER SCHEDULE ON S0.2

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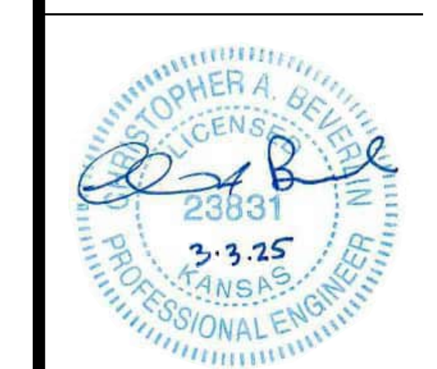

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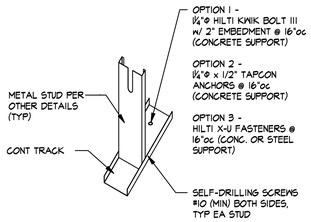
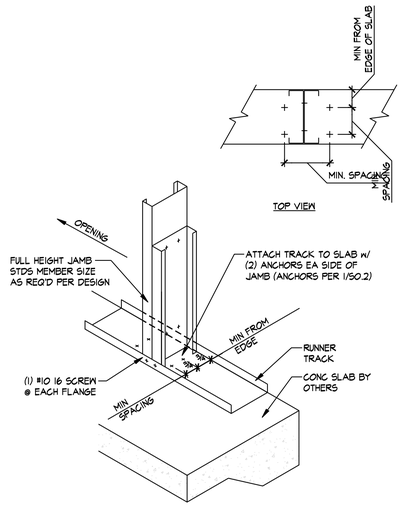
S0.1



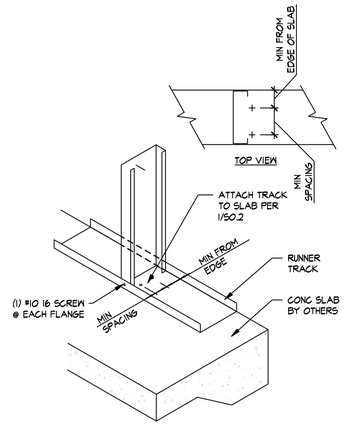
BOTTOM TRACK CONNECTION

SECTION 1 / 50.2
¾" = 1'-0"



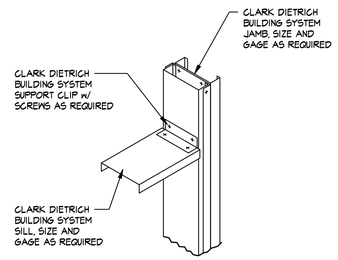
TYPICAL WINDOW JAMB ANCHORAGE

SECTION 2 / 50.2
¾" = 1'-0"



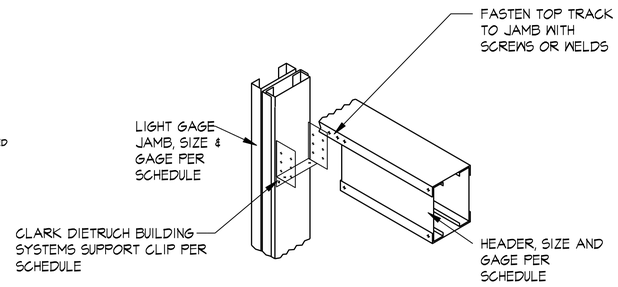
TYPICAL STUD TO TRACK DETAIL

SECTION 3 / 50.2
¾" = 1'-0"



TYPICAL SILL DETAIL

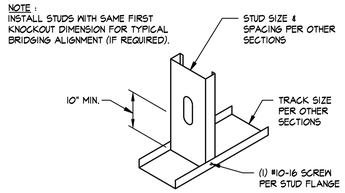
SECTION 4 / 50.2
¾" = 1'-0"



TYPICAL HEADER DETAIL

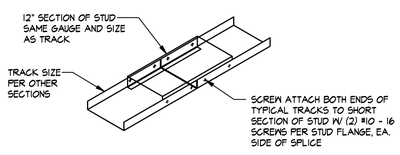
SECTION 5 / 50.2
½" = 1'-0"

NOTE 1
INSTALL STUDS WITH SAME FIRST KNOCKOUT DIMENSION FOR TYPICAL BRIDGING ALIGNMENT (IF REQUIRED).



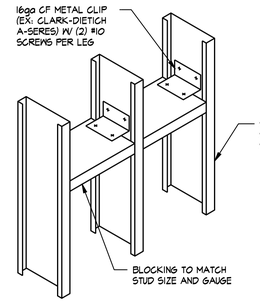
STUD-TO-TRACK CONNECTION

SECTION 6 / 50.2
¾" = 1'-0"



BOTTOM TRACK SPLICE

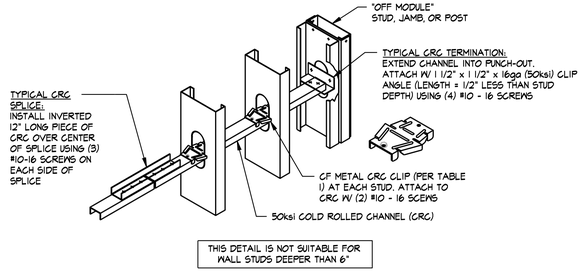
SECTION 7 / 50.2
¾" = 1'-0"



SOLID BLOCKING

SECTION 8 / 50.2
¾" = 1'-0"

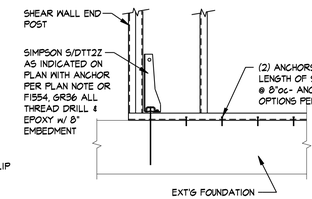
TABLE 1	
STUD THICKNESS	CONNECTOR
33 - 43 MIL	18ga
54 - 97 MIL	14ga



THIS DETAIL IS NOT SUITABLE FOR WALL STUDS DEEPER THAN 6"

LATERAL BRACING

SECTION 9 / 50.2
¾" = 1'-0"

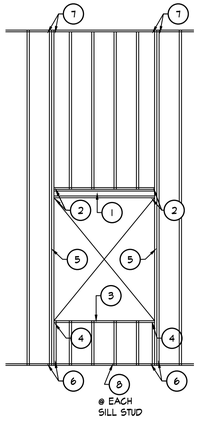


SECTION 10 / 50.2
¾" = 1'-0"

COLD-FORMED OPENING SCHEDULE

MARK	(1) HEADER[3]	(2) HEADER CONNECTION	(3) SILL	(4) SILL CONNECTION	(5) JAMB STUDS[3]	(6) JAMB STUD BASE CONNECTION	(7) JAMB STUD HEAD CONNECTION	(8) SILL STUDS BASE CONNECTION
CF1	(2) 600T125-43 & (2) 600S162-43	H686 HEADER HANGER EA SIDE W/ (30) ¼"-14 SCREWS	NA	NA	(2) 600S162-43 (1) 600T125-43	UNICLIP- 2 #12 SCREWS TO JAMB (2) HILTI XU TO FOUNDATION	FASTCLIP- 2 #12 SCREWS EACH LEG OF CLIPS	PER NOTE 5
CF2	(2) 600T125-43 & (2) 800S162-54	H686 HEADER HANGER EA SIDE W/ (30) ¼"-14 SCREWS	NA	NA	(2) 600S162-43 (1) 600T125-43	UNICLIP- 2 #12 SCREWS TO JAMB (2) HILTI XU TO FOUNDATION	FASTCLIP- 2 #12 SCREWS EACH LEG OF CLIPS	PER NOTE 5

NOTES:
1. ALL MEMBERS SHALL BE FULLY CONTINUOUS (DO NOT CUT NOR SPLICE) AND BE G60 COATED.
2. ALL MEMBERS GREATER THAN 18ga SHALL BE 50KSI.
3. CONNECT HEADER TRACKS TO EACH HEADER JOIST W/ #12 SCREW @24"oc MAX ALONG EACH TRACK FLANGE AND WEB.
4. FASTEN SHEATHING TO STUDS, TOP & BOTTOM TRACKS (BUT NOT DEFLECTION TRACKS) AT 12"oc IN FIELD OF PANEL & 6"oc AT EDGES UNO.
5. FASTEN TRACKS THROUGH EACH FLANGE TO EACH STUD W/ #10 SCREWS UNO.



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USD 305 KITCHEN 2

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REVISION:

DATE: 3-3-2025
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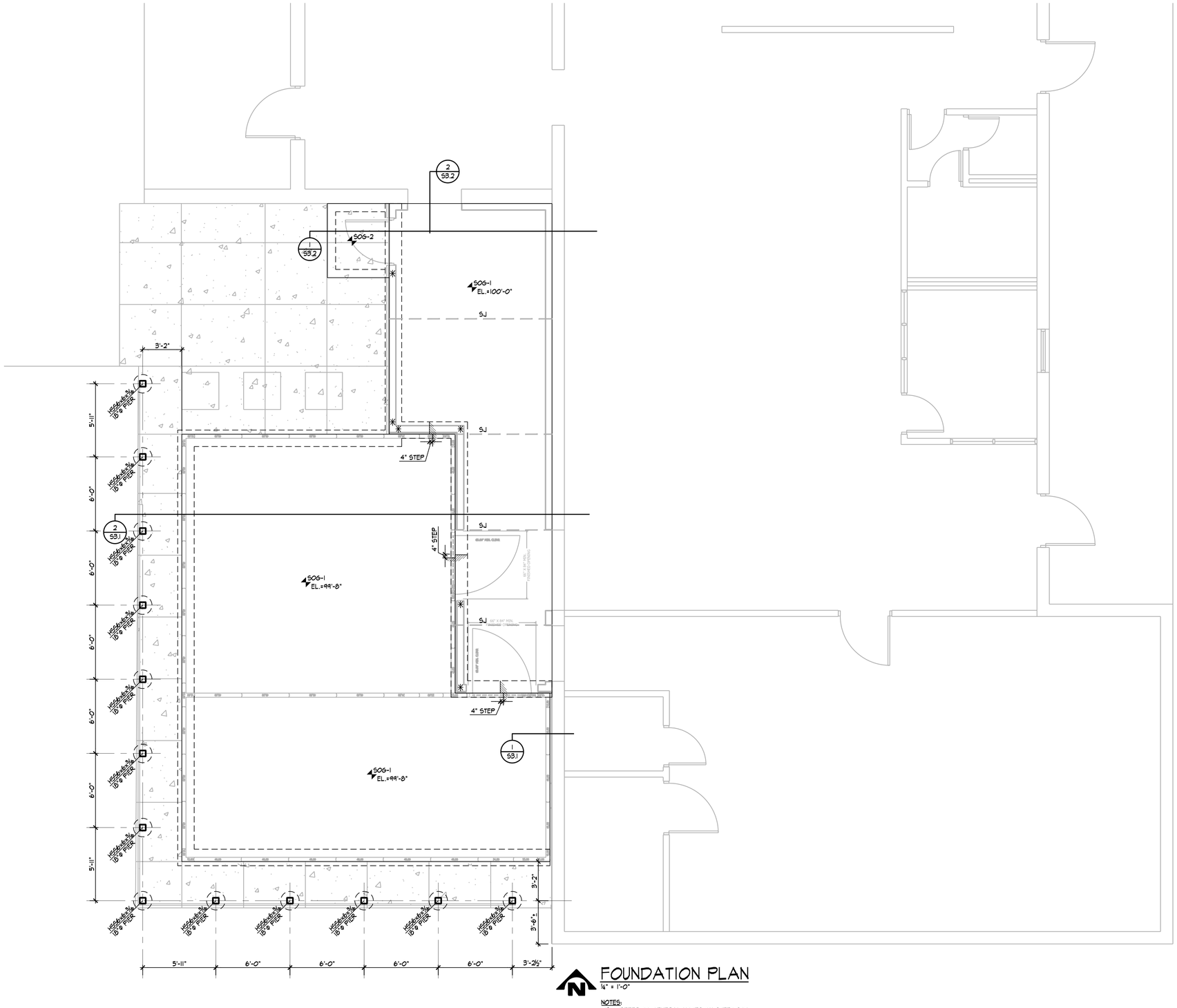

FOUNDATION PLAN

¼" = 1'-0"

NOTES:

1) REFER TO GENERAL NOTES ON SHEET S0.1
2) 'SOG-1' DENOTES 4" CONCRETE SLAB (4,000psi) REINFORCE WITH 6x6-W2.9xW2.9 WWF ATOP 15 MIL VAPOR BARRIER ATOP 6" OF 3/4" CLEAN GRANULAR LEVELING COURSE ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS. T/SLAB = PER PLAN
3) 'SOG-2' DENOTES 4" CONCRETE SLAB (4,500psi, AIR-ENTRAINED) REINFORCE WITH 6x6-W2.9xW2.9 WWF ATOP 6" OF ¾" CLEAN GRANULAR LEVELING COURSE ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS. T/SLAB = PER PLAN
4) ALL EXTERIOR STEEL FOR FENCE SHALL BE HOT-DIPPED GALVANIZED
5) ✳ INDICATES A SIMPSON S/DTT2Z, INSTALL AT BASE OF WALL. ATTACH TO CORNER WALL STUD AND ANCHOR TO CONCRETE SLAB WITH ½"Ø X 8"Lg SIMPSON TITEN HD SCREW ANCHORS. ATTACH GYPBOARD TO STUDS WITH #10 SCREWS AT 4"oc AT EDGES AND INTERMEDIATE FRAMING MEMBERS - BLOCK JOINTS

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USD 305 KITCHEN 2

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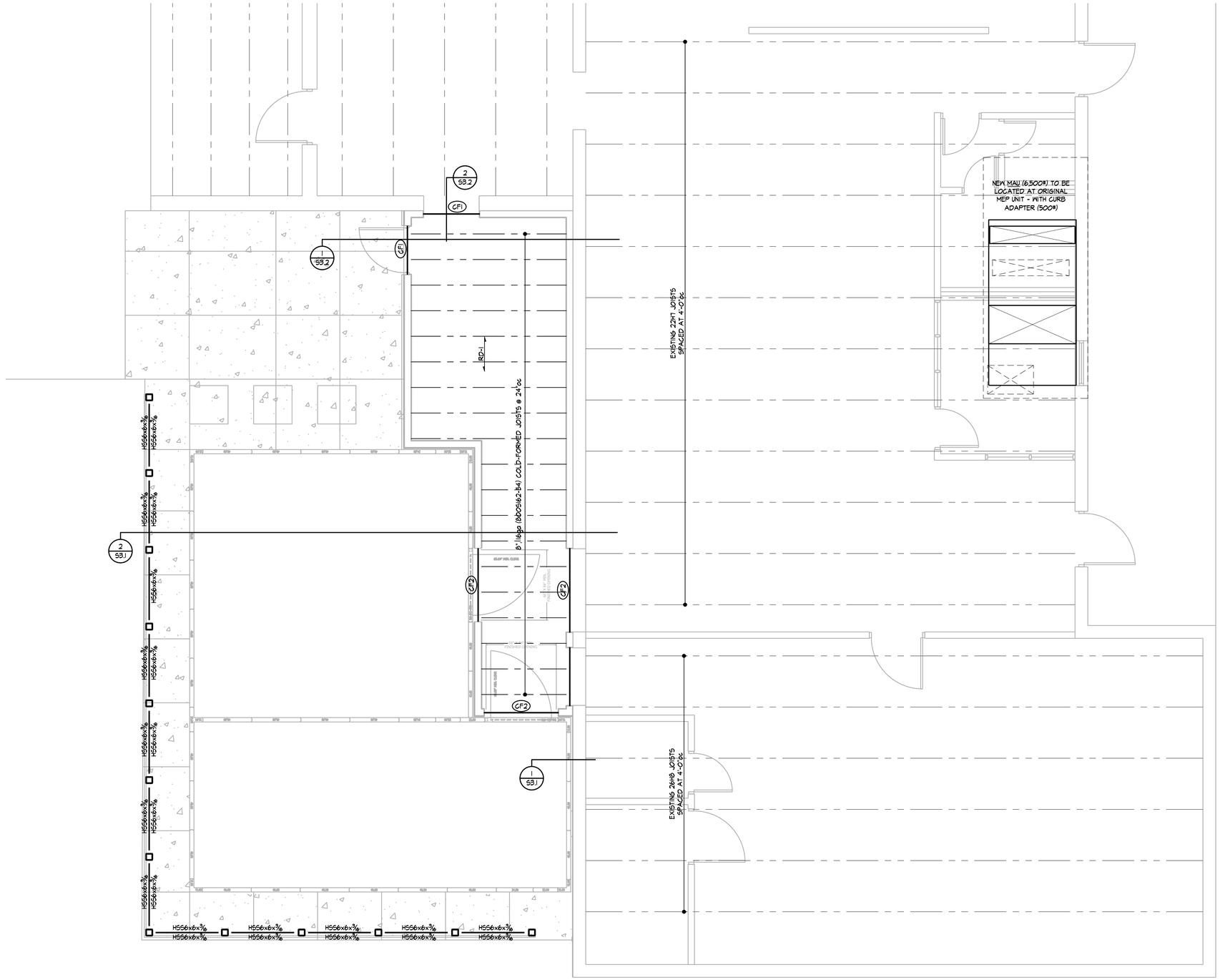
SHEET NO.:

S1.1



ROOF FRAMING PLAN

1/4" = 1'-0"

NOTES:

1) REFER TO GENERAL NOTES ON SHEET S0.1
2) 'RD-1' DENOTES 0.6C, 28ga FORM DECK ATTACHED WITH #10 SCREWS @ 6"oc EDGES & @ 12"oc AT INTERMEDIATE FRAMING
3) ALL EXTERIOR STEEL FOR FENCE SHALL BE HOT-DIPPED GALVANIZED
4) (CF1) INDICATED BOX HEADER SIZE AND JAMB REQUIREMENTS PER SCHEDULE ON S0.2.

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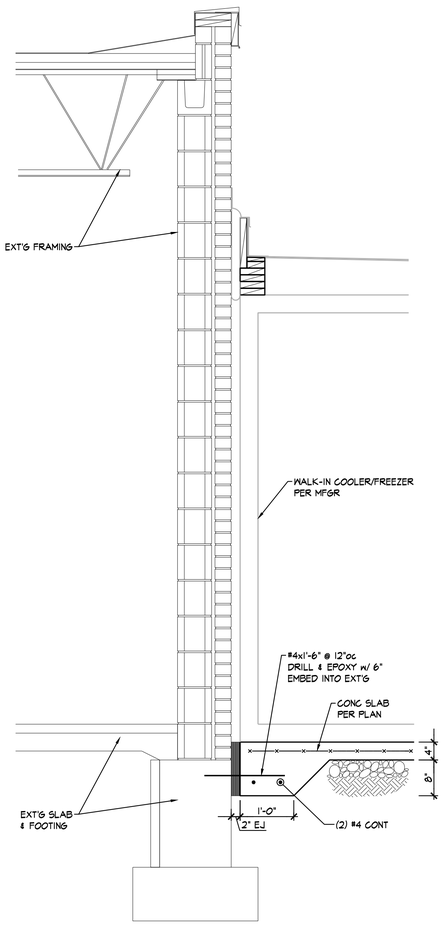
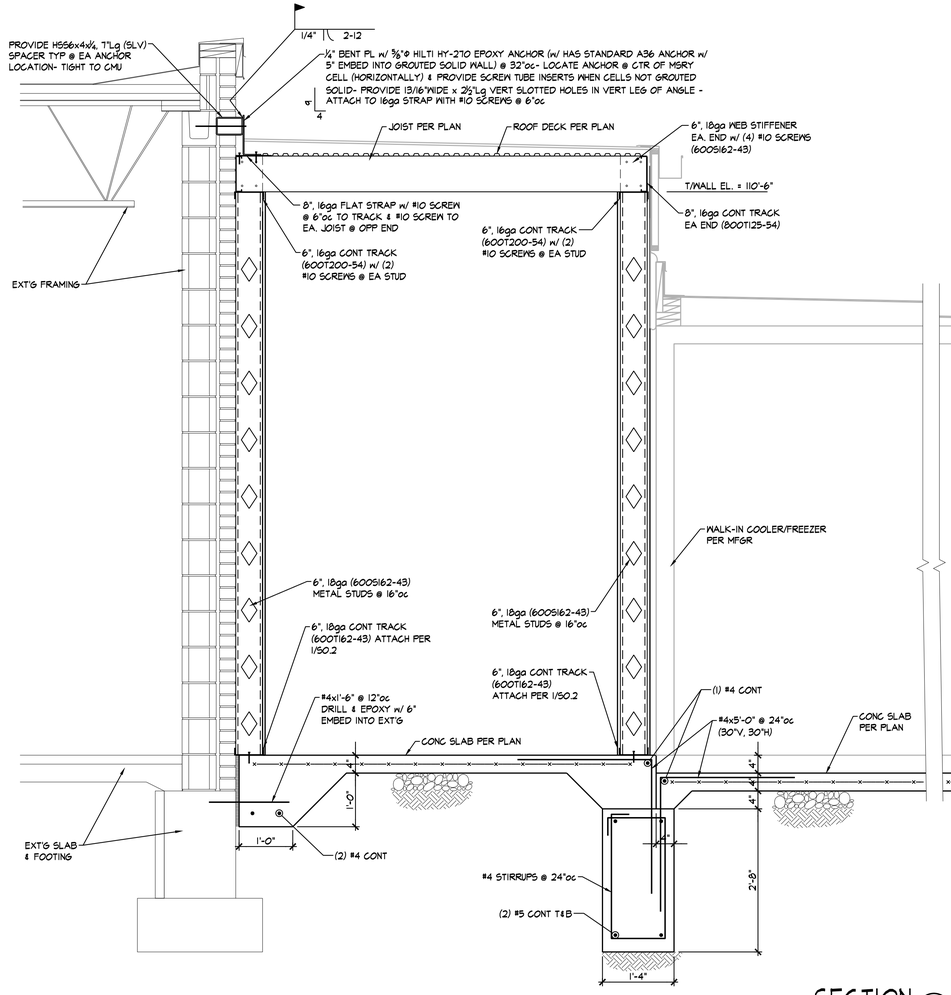
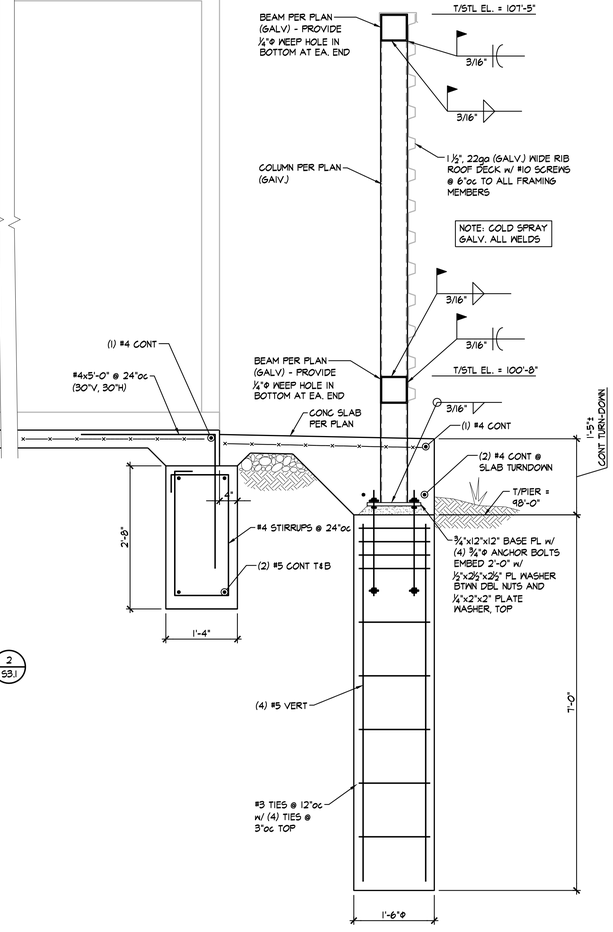


SECTION 1 / S3.1
3/4" = 1'-0"



SECTION 2 / S3.1
3/4" = 1'-0"



SECTION 3 / S3.1
3/4" = 1'-0"

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USD 305 KITCHEN 2
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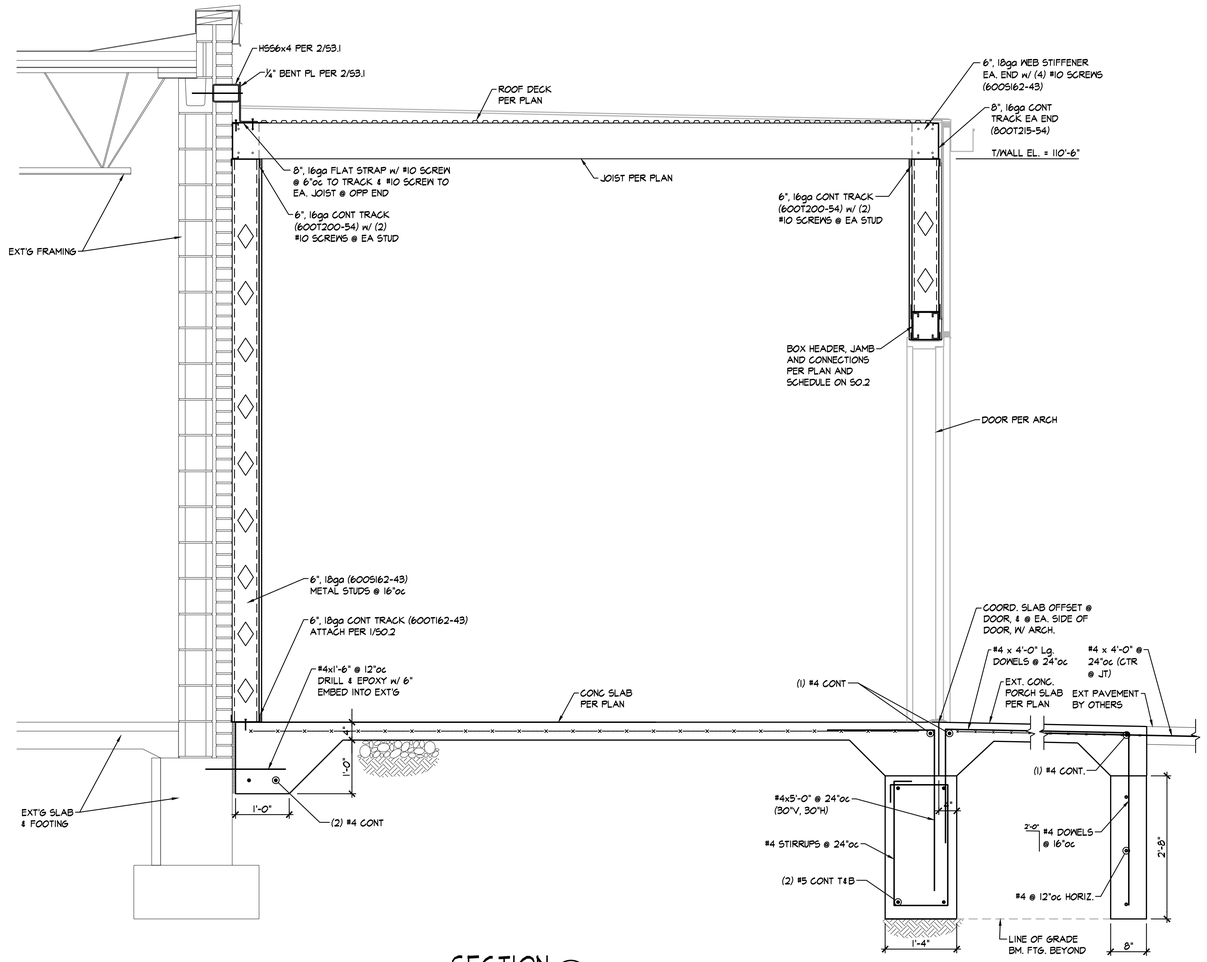
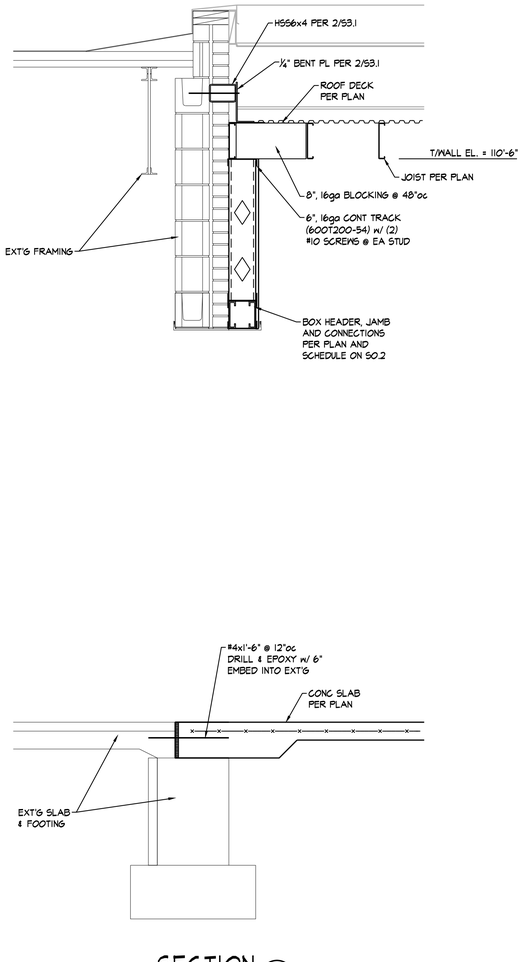
SHEET NO.:

S3.1



SECTION 1/S3.2
¾" = 1'-0"



SECTION 2/S3.2
¾" = 1'-0"

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JOB: 23-3323
SHEET NO.:

S3.2

SHEET INDEX	
ME-101	MECHANICAL/ELECTRICAL DEMOLITION
M-001	MECHANICAL TITLE SHEET
M-101	MECHANICAL FLOOR PLAN
E-001	ELECTRICAL TITLE SHEET
E-101	ELECTRICAL FLOOR PLAN
E-501	ELECTRICAL DETAILS

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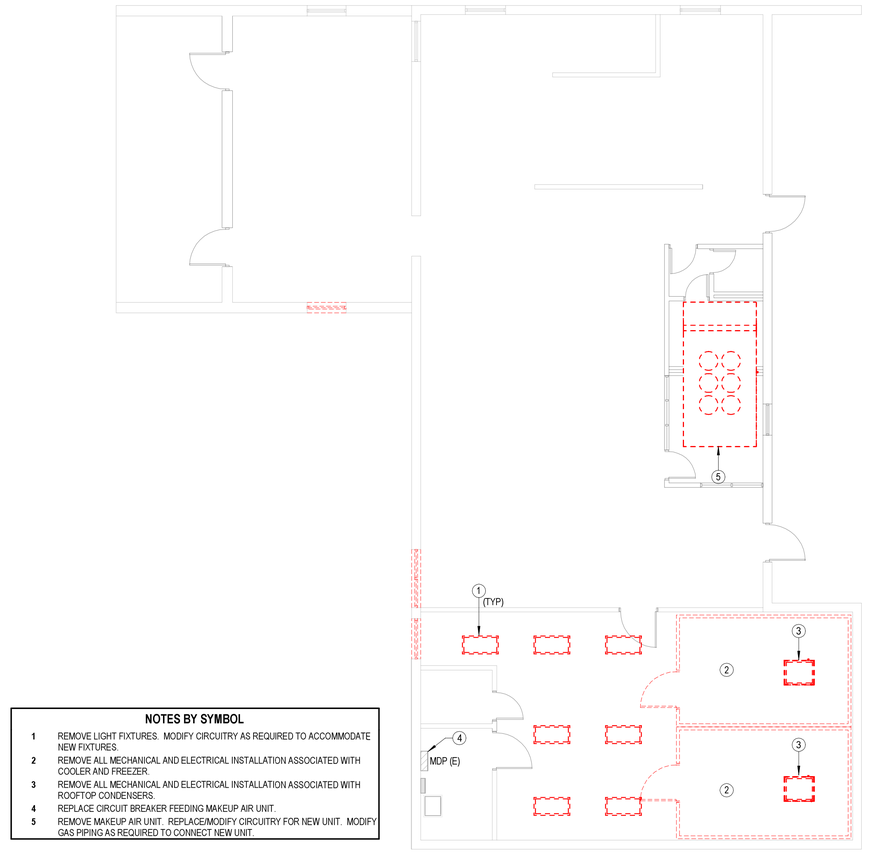
Project LST 25005 **03/03/25**

GENERAL MECHANICAL DEMOLITION NOTES

A. ALL PIPING TAKEN OUT OF SERVICE SHALL BE REMOVED. WHERE PIPING TO BE REMOVED IS CONNECTED TO EXISTING PIPING TO REMAIN, PIPING SHALL BE REMOVED BACK TO MAIN AND CAPPED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL DISPOSE OF PIPING OR DELIVER TO OWNER, AS DIRECTED BY OWNER.
B. WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB.
C. ALL DUCTWORK TAKEN OUT OF SERVICE SHALL BE REMOVED.
D. COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
E. ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.
F. REMOVE ALL MECHANICAL INSTALLATION FROM PROJECT AREA, UNLESS REQUIRED FOR NEW WORK OR EXISTING INSTALLATION NOT AFFECTED BY REMODEL. COORDINATE WITH OWNER AND G.C.
G. SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION.
H. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED.
I. FIELD VERIFY EXACT LOCATION OF ALL EXISTING MECHANICAL INSTALLATION INDICATED ON DRAWINGS.
J. ALL ITEMS TO BE RE-USED OR RELOCATED SHALL BE CLEANED, REPAIRED, AND RESTORED TO LIKE NEW CONDITION PRIOR TO RE-USE.

GENERAL ELECTRICAL DEMOLITION NOTES

1. REMOVE ALL NM, BX, MC, AC AND OTHER CABLE SYSTEMS AND WIRING FOR ALL ABANDONED CIRCUITS.
2. REMOVE ALL ABANDONED CONDUITS ABOVE LAY-IN CEILINGS, EXPOSED CONDUITS, FLEXIBLE CONDUITS, SURFACE RACEWAY, SURFACE MOUNTED OUTLET/JUNCTION BOXES AND EQUIPMENT UNLESS NOTED OTHERWISE.
3. WHERE ABANDONED FEEDERS AND BRANCH CIRCUITS ARE CONCEALED WITHIN WALLS, FLOORS AND HARD CEILINGS THAT ARE TO REMAIN, REMOVE ALL WIRING AND CAP CONDUITS AT BOTH ENDS.
4. WHERE ABANDONED OUTLET AND JUNCTION BOXES ARE RECESSED FLUSH IN WALLS, FLOORS AND HARD CEILINGS THAT ARE TO REMAIN, REMOVE ALL WIRING AND WIRING DEVICES AND PROVIDE BLANK STAINLESS STEEL COVERPLATES FOR BOXES 6"x6" AND SMALLER. REMOVE BOXES LARGER THAN 6"x6" AND PATCH SURFACE TO MATCH EXISTING. COORDINATE WITH ARCHITECT FOR FINAL DIRECTION.
5. ALL EQUIPMENT, FIXTURES, RACEWAY, WIRING AND DEVICES WHICH ARE REMOVED SHALL BE REMOVED FROM THE JOB SITE BY THIS CONTRACTOR, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. CONFORM TO ALL LAWS AND ORDINANCES IN EFFECT CONCERNING THE PROPER DISPOSAL OF LUMINAIRES AND LAMPS.
6. COORDINATE THE REMOVAL OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING REMOVED. REMOVE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH DEMOLISHED MECHANICAL AND PLUMBING EQUIPMENT (DISCONNECT SWITCHES, MOTOR STARTERS, RELAYS, ETC).



NOTES BY SYMBOL

1	REMOVE LIGHT FIXTURES. MODIFY CIRCUITRY AS REQUIRED TO ACCOMMODATE NEW FIXTURES.
2	REMOVE ALL MECHANICAL AND ELECTRICAL INSTALLATION ASSOCIATED WITH COOLER AND FREEZER.
3	REMOVE ALL MECHANICAL AND ELECTRICAL INSTALLATION ASSOCIATED WITH ROOFTOP CONDENSERS.
4	REPLACE CIRCUIT BREAKER FEEDING MAKEUP AIR UNIT.
5	REMOVE MAKEUP AIR UNIT. REPLACE/MODIFY CIRCUITRY FOR NEW UNIT. MODIFY GAS PIPING AS REQUIRED TO CONNECT NEW UNIT.

A **MECHANICAL/ELECTRICAL DEMOLITION**
1/8" = 1'-0"

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SHEET NO.:

ME-101

MAKEUP AIR UNIT SCHEDULE

Mark	Manufacturer	Model	OA CFM	OA ESP	Summer OA DB	Summer OA WB	Winter OA DB	Winter OA WB	DX Cooling/HGRH Total (MBH)	DX Cooling/HGRH Sensible (MBH)	DX Cooling/HGRH Coil LAT DB	DX Cooling/HGRH Coil LAT WB	HGRH DB	Natural Gas Heating Input (MBH)	Natural Gas Heating Output (MBH)	Natural Gas Heating Turndown	Voltage	Phase	MCA	MOCP	Unit Weight
MUA	Valent	VX-312-50I-Q-G2	7,000 CFM	1.50 in-wg	97 °F	76 °F	0 °F	0 °F	537.4	308.2	52 °F	51 °F	97 °F	800	648	15_1	480 V	3	109.5 A	125.0 A	6450 lb

NOTES:
1. INTEGRATE UNIT INTO EXISTING BUILDING DDC SYSTEM WITH BACNET COMMUNICATIONS. MAKE ALL POINTS AVAILABLE TO EXISTING DDC SYSTEM. UNIT TO OPERATE USING MANUFACTURER'S CONTROLS.
2. PROVIDE CURB ADAPTER TO ALLOW UNIT TO BE INSTALLED ON EXISTING CURB.
3. PROVIDE SINGLE POINT ELECTRICAL CONNECTION AND INTEGRAL DISCONNECT.
4. PROVIDE REMOTE MOUNTED CONTROL PANEL.

MINI-SPLIT HEAT PUMP INDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	Sens. Cooling	Heating Cap.
IU-1	Mitsubishi	NTXWPH18B112AA	Wall Mounted Unit	17,200 Btu/h	23,000 Btu/h

MINI-SPLIT HEAT PUMP OUTDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	NOMINAL CAPACITY	MOCP	MCA
HP-1	Mitsubishi	NTXSPB18B112AA	Heat Pump System	1.50 ton	20.0 A	18.0 A

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room / 1 — Room Name / Number
- Area Being Demolished
- Area Not In Contract
- Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC Symbols

- 24"/12" — Sq. Duct Size (Width/Height)
- 24"x12"FO — Oval Duct Size (Width x Height)
- 18"Ø — Round Duct Size (Diameter)
- (E) — Existing Duct To Remain
- Duct To Be Demolished
- S/A — Supply Air
- V/A — Ventilation Air
- O/A — Outdoor Air
- R/A — Return Air
- T/A — Transfer Air
- E/A — General Exhaust Air
- KED — Kitchen Exhaust Duct
- FLUE — Flue Gas Vent
- C/A — Combustion Air
- Rect. Supply Duct Rise / Drop
- Round Supply Duct Rise / Drop
- Rect. Return Duct Rise / Drop
- Round Return Duct Rise / Drop
- Rect. Exhaust Duct Rise / Drop
- Round Exhaust Duct Rise / Drop

Grille, Register, Diffusers

- Square Ceiling Diffuser: CD- 500 / 10"Ø/24x24 — Type (See Schedule); Airflow; Neck Size / Module Size
- Round Ceiling Diffuser: CD11 100 / 6"Ø / TYP. X 4 — Type (See Schedule); Airflow; Neck Size; Type Count for Space
- Sidewall Supply Grille: SG5 300 / 18"/6" / AFF-0" — Type (See Schedule); Airflow; Nominal Duct Size; Mounting Elevation (Centerline)
- Linear Diffuser: SD- 200 / 8'-0"/24/4"-0"L — Type (See Schedule); Airflow; Neck Size/ Slot(s)/ Active Length
- Sidewall Return Grille: RG6 200 / 12"/6"/-- / AFF-0" — Type (See Schedule); Airflow; Nominal Duct Size; Mounting Elevation (Centerline)
- Ceiling Return: CR2 200 / 8"-0"/24x24 — Type (See Schedule); Airflow; Neck Size / Module Size

Mechanical Equipment

- RTU-1 — Unit Identity
- (E)AHU-2 — Existing to Remain Equipment
- (R)AHU-3 — Existing Relocated Equipment
- Equipment By Others (Refer To Other Disciplines)

Mechanical Control Devices

- T — Thermostat
- H — Humidistat
- TS — Temperature Sensor
- HS — Humidity Sensor
- CO2 — Carbon Dioxide Detector
- HZG — Hazardous Gas Detector

Damper Types

- B — Manual Damper
- M — Motorized Damper
- BD — Backdraft Damper
- SD — Smoke Damper
- FD — Fire Damper
- CFSD — Comb. Fire/ Smoke Damper

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Project LST 25005 — 03/03/25

GENERAL HVAC NOTES

A. CONTRACTOR SHALL LOCATE THERMOSTATS AND HUMIDISTATS AT 4'-0" AFF UNLESS NOTED OTHERWISE. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 8" FROM LIGHT SWITCHES.
B. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER. WHERE INSTALLED ABOVE CEILINGS, CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH MINIMUM 1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.
C. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
D. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING.
E. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
F. HVAC EQUIPMENT SHALL NOT BE UTILIZED UNTIL ALL DUCT PRODUCING CONSTRUCTION ACTIVITY HAS BEEN COMPLETED. CONTRACTOR SHALL BE REQUIRED TO OBTAIN APPROVAL FROM OWNER PRIOR TO EQUIPMENT STARTUP, AND TO REPLACE FILTERS ON HVAC EQUIPMENT UPON FINAL COMPLETION.
G. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
H. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
I. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
J. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOFS WITHOUT A 42" HIGH PARAPET OR GUARD RAIL. WHERE PROVIDING 10'-0" SEPARATION FROM ROOF EDGE IS NOT POSSIBLE, PROVIDE PERMANENT FALL ARREST ANCHORS COMPLIANT WITH ANSI/ASSP Z359.1. COORDINATE WITH GENERAL CONTRACTOR.
K. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
L. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
M. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
N. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
O. TRANSITION FROM PIPING AND DUCTWORK SIZES SHOWN TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
P. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
Q. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
R. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
S. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
T. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
U. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

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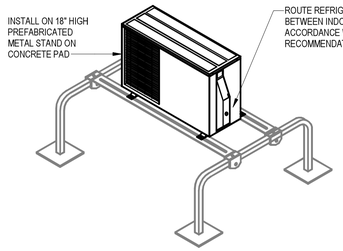
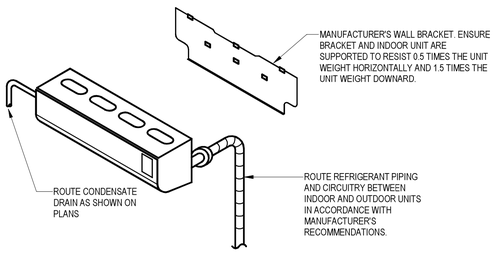


B MINI-SPLIT OUTDOOR UNIT DETAIL
NOT TO SCALE



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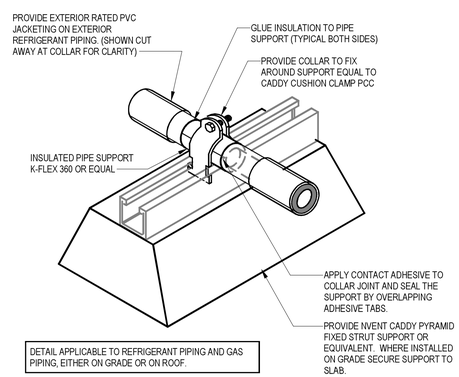
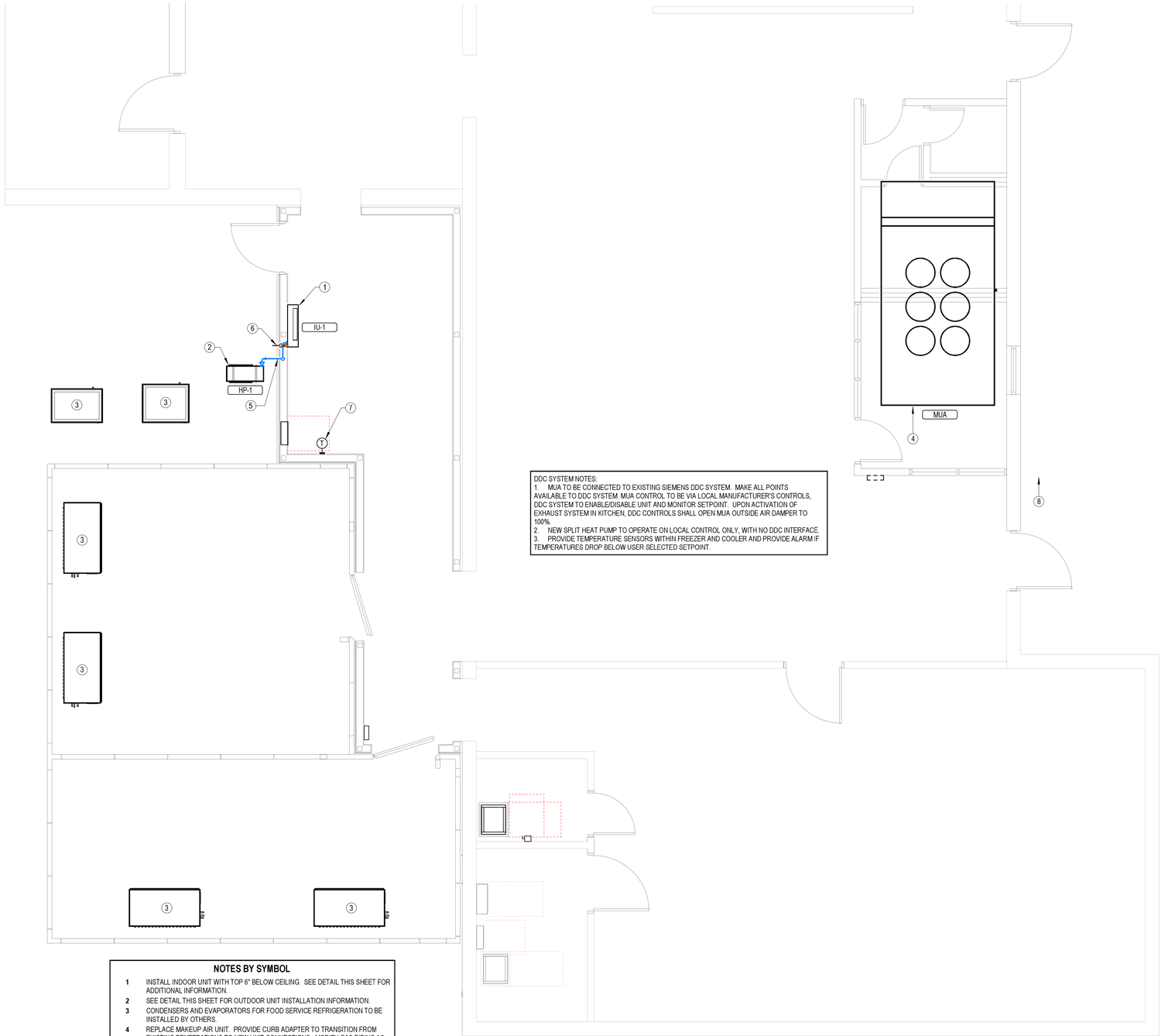


D EXTERIOR PIPING INSTALLATION DETAIL
NO SCALE



DDC SYSTEM NOTES:
1. MUA TO BE CONNECTED TO EXISTING SIEMENS DDC SYSTEM. MAKE ALL POINTS AVAILABLE TO DDC SYSTEM. MUA CONTROL TO BE VIA LOCAL MANUFACTURER'S CONTROLS, DDC SYSTEM TO ENABLE/DISABLE UNIT AND MONITOR SETPOINT. UPON ACTIVATION OF EXHAUST SYSTEM IN KITCHEN, DDC CONTROLS SHALL OPEN MUA OUTSIDE AIR DAMPER TO 100%.
2. NEW SPLIT HEAT PUMP TO OPERATE ON LOCAL CONTROL ONLY, WITH NO DDC INTERFACE.
3. PROVIDE TEMPERATURE SENSORS WITHIN FREEZER AND COOLER AND PROVIDE ALARM IF TEMPERATURES DROP BELOW USER SELECTED SETPOINT.

NOTES BY SYMBOL

1. INSTALL INDOOR UNIT WITH TOP 6" BELOW CEILING. SEE DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
2. SEE DETAIL THIS SHEET FOR OUTDOOR UNIT INSTALLATION INFORMATION.
3. CONDENSERS AND EVAPORATORS FOR FOOD SERVICE REFRIGERATION TO BE INSTALLED BY OTHERS.
4. REPLACE MAKEUP AIR UNIT. PROVIDE CURB ADAPTER TO TRANSITION FROM EXISTING PENETRATIONS TO NEW UNIT CONNECTIONS. MODIFY GAS PIPING AS REQUIRED AND CONNECT TO UNIT WITH UNION, DIRT LEG AND GAS COCK. MODIFY CONTROLS AS REQUIRED. PROVIDE WATERLESS DRAIN TRAP EQUIVALENT TO DIVERSITEC.
5. ROUTE REFRIGERANT PIPING FROM OUTDOOR UNIT TO INDOOR UNIT. PENETRATE EXTERIOR WALL AT 18" ABOVE GRADE AND UTILIZE MANUFACTURED WALL PENETRATION EQUIVALENT TO TITAN AIREX.
6. ROUTE CONDENSATE DRAIN FROM INDOOR UNIT DOWN IN WALL AND SPILL TO GRADE. PENETRATE EXTERIOR WALL AT 12" AFF. PROVIDE SLEEVE FOR PIPE PENETRATION, SEAL AND PROVIDE STAINLESS STEEL ESCUTCHEON. PIPE THROUGH WALL SHALL BE COPPER.
7. PROVIDE WIRED THERMOSTAT FOR NEW HEAT PUMP SYSTEM. MOUNT AT 48" AFF.
8. PROVIDE MUA WITH REMOTE CONTROL PANEL. VERIFY EXACT LOCATION WITH OWNER.

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

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REVISIONS:

DATE: 03/03/25
JOB: 23-3323
SHEET NO.: M-101

Electrical Abbreviations

1P	1 Pole (2P, 3P, 4P, ETC.)	MCB	Main Circuit Breaker
A, Amp	Ampere	MCC	Motor Control Center
AC	Above Counter	MDC	Main Distribution Center
ACLG	Above Ceiling	MDP	Main Distribution Panel
ADO	Automatic Door Opener	MFR	Manufacturer
AF	Amp Frame	MFS	Main Fused Disconnect Switch
AFF	Above Finished Floor	MH	Manhole
AFG	Above Finished Grade	MIC	Microphone
AFI	Arc Fault Circuit Interrupter	MIN	Minimum
		MISC	Miscellaneous
AHU	Air Handling Unit	MLO	Main Lugs Only
AL	Aluminum	MMS	Manual Motor Starter
ALT	Alternate	MOA	Multioutlet Assembly
AMP	Ampere	MSP	Motor Starter Panelboard
AMPL	Amplifier	MSBD	Main Switchboard
ANNUN	Annunciator	MSS	Motor Starter Switch
APPROX	Approximately	MT	Mount
AQ-STAT	Aquastat	MT.C	Empty Conduit
ARCH	Architect, Architectural	MTS	Manual Transfer Switch
AS	Amp Switch	MTR	Motor, Motorized
AT	Amp Trip	N.C.	Normally Closed
ATS	Automatic Transfer Switch	NEC	National Electrical Code
AUTO	Automatic	NEMA	National Electrical Manufacturer's Association
AUX	Auxiliary	NFDS	Non-Fused Safety Disconnect Switch
AV	Audio Visual		
AWG	American Wire Gauge		
BATT	Battery	NIC	Not In Contract
BD	Board	NL	Night Light
BLDG	Building	N.O.	Normally Open
BMS	Building Management System	NPF	Normal Power Factor
C	Conduit	NTS	Not To Scale
CAB	Cabinet	OC	On Center
CAT	Catalog	OH	Overhead
CATV	Cable Television	OL	Overloads
CB	Circuit Breaker	PA	Public Address
CCTV	Closed Circuit Television	PB	Pull Box Or Pushbutton
CKT	Circuit	PE	Pneumatic Electric
CLG	Ceiling	PED	Pedestal
COMB	Combination	PF	Power Factor
CMPR	Compressor	PH	Phase
CONN	Connection	PIV	Post Indicating Valve
CONST	Construction	PNL	Panel
CONT	Continuation Or Continuous	PP	Power Pole
CONTR	Contractor	PR	Pair
CONV	Convector	PRI	Primary
CP	Circulating Pump	PROJ	Projection
CRT	Cathode-Ray Tube	PRV	Power Roof Ventilator
CT	Current Transformer	PT	Potential Transformer
CTR	Center	PVC	Polyvinyl Chloride (Conduit)
CU	Copper	PWR	Power
DCP	Domestic Water Circulating Pump	QUAN	Quantity
DEPT	Department	RCPT	Receptacle
DET	Detail	REQD	Required
DIA	Diameter	RM	Room
DISC	Disconnect	RSC	Rigid Steel Conduit
DIST	Distribution	RTU	Roof Top Unit
DN	Down	SC	Surface Conduit
DPR	Damper	SEC	Secondary
DS	Safety Disconnect Switch	SHT	Sheet
DT	Double Throw	SIM	Similar
DWG	Drawing	SLD	Single-Line Diagram
EC	Electrical Contractor	SIN	Solid Neutral
ELEC	Electric, Electrical	SPEC	Specification
ELEV	Elevator	SPKR	Speaker
ELU	Emergency Lighting Unit	SP	Spare
EM	Emergency	SPP	Single-Point Power
EMS	Energy Management System	SR	Surface Raceway
EMT	Electrical Metallic Tubing	SS	Stainless Steel
EP	Electric Pneumatic	SSW	Selector Switch
EQUIP	Equipment	S/S	Stop/Start Pushbuttons
EWC	Electric Water Cooler	STA	Station
EXIST	Existing	STD	Standard
EXH	Exhaust	SURF	Surface Mounted
EXP	Explosion Proof	SW	Switch
FA	Fire Alarm	SWBD	Switchboard
FABP	Fire Alarm Booster Power Supply Panel	SYM	Symmetrical
		SYS	System
FACP	Fire Alarm Control Panel	TEL	Telephone
FCU	Fan Coil Unit	TERM	Terminal
FIXT	Fixture	TL	Twist Lock
FLR	Floor	TR	Tamper Resistant
FLUOR	Fluorescent	T-STAT	Thermostat
FU	Fuse	TTC	Telephone Terminal Cabinet
FUDS	Fused Safety Disconnect Switch	TV	Television
GA	Gauge	TVTC	Television Terminal Cabinet
GAL	Gallon	TYP	Typical
GALV	Galvanized	UC	Under Counter
GC	General Contractor	UE	Underground Electrical
GEN	Generator	UG	Underground
GFI	Ground Fault Circuit Interrupter	UH	Unit Heater
GFP	Ground Fault Protector	UT	Underground Telephone
GND	Ground	UTIL	Utility
GRS	Galvanized Rigid Steel (Conduit)	UV	Ultraviolet
GYP BD	Gypsum Board	V	Volt
HOA	Hands-Off-Automatic Switch	VA	Volt-Amperes
HORIZ	Horizontal	VDT	Video Display Terminal
HP	Horsepower	VERT	Vertical
HPF	High Power Factor	VFD	Variable Frequency Drive
HT	Height	VOL	Volume
HTG	Heating	W	Watt
HTR	Heater	W/	With
HV	High Voltage	WG	Wire Guard
HVAC	Heating, Ventilating And Air Conditioning	WH	Water Heater
		W/O	Without
IC	Interrupting Capacity	WP	Weatherproof
IG	Isolated Ground	XFMR	Transformer
IMC	Intermediate Metal Conduit	XFR	Transfer
INCAND	Incandescent		
IR	Infrared		
IW	Interlock With		
J-BOX	Junction Box	∠	Angle
KV	Kilovolt	@	At
KVA	Kilovolt-Ampere	▲	Delta
KVAR	Kilovolt-Ampere Reactive	'	Feet
KW	Kilowatt	"	Inches
KWH	Kilowatt Hour	#	Number
LOC	Locate Or Location	Ø	Phase
LT	Light	C	Center Line
LTG	Lighting	P	Plate
LTNG	Lightning		
LV	Low Voltage		
MAX	Maximum		
MAG S	Magnetic Starter		
M/C	Momentary Contact		
MC	Mechanical Contractor		

Electrical Symbol Legend

Lighting Symbols

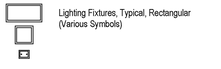
- Lighting Fixtures, Typical, Rectangular (Various Symbols)
- Lighting Fixtures, Typical, Round (Various Symbols) Center dot indicates pendant. Chevron indicates wall wash.
- Wall-mounted fixtures, Typical (Various Symbols)
- Strip Fixture
- Directional Light, Track Light, Flood Light
- Linear Light, Tape Light
- Emergency Lighting Unit, Ceiling-Mounted, Integral Battery
- Emergency Lighting Unit, Ceiling-Mounted, Remote Battery
- Emergency Lighting Unit, Wall-Mounted, Integral Battery
- Emergency Lighting Unit, Wall-Mounted, Remote Battery
- Exit Light, Ceiling-Mounted. Shading and arrows indicate faces and directional chevrons.
- Exit Light, Wall-Mounted. Shading and arrows indicate faces and directional chevrons.
- Exit/ELU Combo
- Pole/Area Lights
- Post-Top Area Light
- Bollard Light
- Hatch indicates light on an emergency or life safety circuit
- Single-Pole Switch
- Two-Pole Switch
- Three-Pole Switch

Switch Modifiers:

3: 3-Way	OS: Occupancy Sensor
4: 4-Way	VS: Vacancy Sensor
K: Keyed	CT: Above-Counter
D: Dimming	LV: Low-Voltage
T: Timer	M: Motor-Rated

- Lighting Contactor
- Lighting Control Panel
- Occupancy Sensor
- Daylight Harvesting Sensor

Lighting Tags



Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space. An "x" in place of the switch designation indicates unswitched.

- Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or contactors.

Miscellaneous

- Area Not in Contract
- Note by Symbol
- Callout: Top Value: Detail Number on Sheet; Bottom Value: Sheet Number of Detail
- Room: Room Name and Number

Power Symbols

- Simplex Receptacle
- Duplex Receptacle
- Quadruplex Receptacle
- Special Receptacle, Type as Indicated

Receptacle Modifiers:

- ###: Height AFF(to center)
- CT: Device Mounted Above Counter Top
- IG: Isolated Ground
- H: Device Mounted Horizontally
- WP: Weatherproof In-Use Cover

- Half shading indicates split (typically switched)
- Outside shading indicates tamperproof device
- Center shading indicates GFI type
- Full shading indicates tamperproof GFI type
- Multioutlet Assembly. Filled squares indicate 120V outlet. Open squares indicate with USB
- Cord Reel, Device Varies
- Drop Cord, Device Varies
- Junction Box
- Floor Box, see schedule for type
- Emergency Power Off
- Door Opener Push Plate
- Power Meter
- Safety Switch, Fused
- Safety Switch, Unfused
- Motor Starter
- Combination Starter/Disconnect
- Contactor

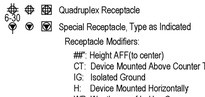
Power Device and Equipment Tags

- LP1A:1 — Electrical DeviceTags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable).
- XX-1 — Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. See the equipment connection schedule for description, electrical requirements, and panel and circuit number. Symbols/graphic appearance of equipment varies.

Wiring

- Solid, arced lines connecting equipment, devices, or fixtures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installtion, junction boxes, etc. shall be field-determined by the contractor.
- Dashed, arced lines connecting equipment, devices, or fixtures indicate switched power.
- Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Homeruns are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor.

Power Distribution Equipment



Hatched fill indicates distribution panel or switchboard. Solid fill indicates branch panel or load center. Dashed box indicates code-required clearance (width and depth). Door indicates front of recessed panel.

Devices and fixtures are tagged with Panel and circuit number. For example, a device tagged with "A:1" indicates the device is circuited to panel designated "A," circuit number 1.

- T1 — Transformer: Typically transformer names begin with or contain the letter "T". See Single-Line Diagram for description and requirements.

Telecom Symbols

- Data Outlet
- Telephone Outlet
- Data/Telephone Outlet

Outlet Modifiers:

- ###: Height AFF (to center)
- CT: Mounted Above Counter Top

- Wireless Access Point
- TV Outlet

GENERAL ELECTRICAL NOTES

A. COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL INSTALLATION. CONDUITS SHALL BE ROUTED THROUGH JOIST WEBS WHERE POSSIBLE.

B. VERIFY EXACT PLACEMENT OF ALL LUMINAIRES, DEVICES, AND EQUIPMENT SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT.

C. ELECTRICAL EQUIPMENT AND DEVICES SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.

D. DEFINITION OF TERMS

"SHALL":	ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.
"FURNISH":	CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING.
"INSTALL":	CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND TEST EQUIPMENT FURNISHED BY HIM OR OTHERS.
"PROVIDE":	CONTRACTOR SHALL FURNISH AND INSTALL.

MOUNTING HEIGHT REQUIREMENTS:

UNLESS SPECIFICALLY INDICATED OTHERWISE, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY:

• RECEPTACLES	16" TO BOTTOM
• TELECOMMUNICATIONS OUTLETS	16" TO BOTTOM
• LIGHT SWITCHES	48" TO TOP
• THERMOSTATS	48" TO TOP
• HUMIDISTATS	48" TO TOP
• FIRE ALARM PULL STATIONS	48" TO TOP
• FIRE ALARM NOTIFICATION DEVICES	LOWER OF: 88" TO BOTTOM OR TOP AT 6" BELOW CEILING

GENERAL LIGHTING NOTES

A. THE CIRCUITING OF ALL LUMINAIRES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.

B. CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.

C. DIRECT CURRENT POWER WIRING FROM EXIT SIGNS TO REMOTE EXTERIOR EMERGENCY LIGHTING HEADS SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.

D. IN AREAS WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE USED FOR LIGHTING CONTROL IN CONJUNCTION WITH WALL SWITCHES, OCCUPANCY SENSOR/POWER PACK SHALL SWITCH LEG SHALL BE WIRED IN SERIES WITH WALL SWITCHES TO PROVIDE OVERRIDE "OFF" CONTROL FOR LIGHTS.

E. CONTROL WIRING FOR 0-10 V-dc DIMMING SIGNAL CIRCUITS SHALL BE NEC CLASS 1, ROUTED IN SAME RACEWAY/CABLE WITH LIGHTING CIRCUIT POWER CONDUCTORS. WIRING SHALL CONSIST OF (2) #16 SOLID CU THHN OR TFN CONDUCTORS. CONDUCTOR INSULATION COLOR SHALL BE VIOLET (+ V-dc) AND PINK (- V-dc). WHERE MC-CABLE IS USED FOR FINAL 6' POWER CONNECTION WHIP TO LUMINAIRE, UTILIZE "LUMINARY" TYPE MC-CABLE WITH INTEGRAL CLASS 1 CONTROL WIRING.

GENERAL POWER NOTES

A. THE CIRCUITING OF ALL DEVICES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.

B. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ASSOCIATED SUBCONTRACTORS. COORDINATE CONDUIT STUB-UP AND POWER CONNECTIONS PRIOR TO COMMENCING ROUGH-IN WORK. ELECTRICAL DEVICES (DISCONNECTS, RECEPTACLES, ETC.) INSTALLED ON EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. FIELD COORDINATE EXACT DEVICE MOUNTING LOCATIONS PRIOR TO INSTALLATION.

C. WALL MOUNTED HVAC CONTROL DEVICES (THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, CO_2 SENSORS, ETC) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE GANG WALL BOX WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING IN RACEWAY. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF DEVICES.

GENERAL ELECTRICAL REMODEL NOTES

1. DESIGN IS BASED ON FIELD INFORMATION, AS-BUILT DRAWINGS AND OWNER FURNISHED INFORMATION. CONTRACTOR SHALL VERIFY ACCURACY OF ALL EXISTING CONDITIONS. IN CASE OF DISCREPANCY, PROVIDE ALL NECESSARY CONDUIT, WIRE, BOXES, FITTINGS, ETC. FOR A COMPLETE OPERATING ELECTRICAL SYSTEM.
2. EXISTING EQUIPMENT, WIRING DEVICES, LIGHTS, CONDUIT, WIRING, ETC., NOT DISTURBED BY NEW CONSTRUCTION WORK SHALL BE MAINTAINED AND UNDAMAGED. THESE ITEMS, IF SHOWN, ARE SHOWN FOR INFORMATION PURPOSES ONLY UNLESS NOTED OTHERWISE. THIS CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND TO BECOME FAMILIAR WITH ALL WORK TO BE PERFORMED. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.
3. FIELD VERIFY THE LOCATION AND CONDITION OF ALL EXISTING UTILITIES AND PROVIDE PROTECTION FOR THESE UTILITIES DURING THE COURSE OF WORK. EXISTING UTILITIES, BUILDING MATERIALS AND ASSOCIATED ITEMS DAMAGED BY THIS CONTRACTOR, OR ANY PARTIES ASSOCIATED WITH THIS CONTRACTOR, SHALL BE REPAIRED OR REPLACED AT THIS CONTRACTOR'S EXPENSE, IN A TIMELY MANNER, AND TO THE OWNER'S WRITTEN ACCEPTANCE.
4. THERE SHALL NOT BE ANY INTERRUPTION TO EXISTING SERVICES (ELECTRICAL, FIRE ALARM, TELEPHONE, ETC.) WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER, ARCHITECT, AND ALL OTHER PARTIES INVOLVED.
5. MAINTAIN ACCURATE RECORDS OF ALL MODIFICATIONS TO THE EXISTING SYSTEMS WHICH ARE TO REMAIN AND DELIVER ALL RECORD DRAWINGS INDICATING SUCH MODIFICATIONS TO THE OWNER UPON COMPLETION OF THE PROJECT. MAINTAIN IN THE PROJECT CONSTRUCTION OFFICE, AS THE WORK PROGRESSES, AN UP-TO-DATE, NEATLY MARKED COPY OF THESE DRAWINGS FOR REVIEW BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE.
6. WHERE NEW ADDITION WORK OR REMODELING INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE UNDISTURBED, EXISTING CIRCUITS SHALL BE REWORKED AS REQUIRED TO MAINTAIN SERVICE.
7. EXISTING ROUGH-IN BOXES AND CONDUIT MAY BE UTILIZED FOR NEW DEVICES IF THEY ARE OF PROPER SIZE AND MATERIAL, AND ARE IN SUITABLE LOCATIONS. HOWEVER, NEW DEVICES AND WIRING MUST BE INSTALLED.
8. WHERE EXISTING EQUIPMENT IS BEING REPLACED WITH NEW EQUIPMENT OR RELOCATED EQUIPMENT, ELECTRICAL CONTRACTOR MAY REUSE THE EXISTING CONDUIT AND ROUGH-IN LOCATIONS IF POSSIBLE, BUT ALL CONDUCTORS SHALL BE NEW.
9. CIRCUITING SHOWN IN REMODELED AREAS MAY BE MODIFIED TO SUIT FIELD CONDITIONS. HOWEVER, KEEP CIRCUITS APPROXIMATELY AS SHOWN ON PLANS TO AVOID OVERLOADING OF CIRCUITS AND TO LIMIT VOLTAGE DROP.
10. MAINTAIN FIRE RATING OF ALL EXISTING WALLS, FLOORS AND CEILING SYSTEMS.

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LUMEN OUTPUT	DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
A1	DAY-BRITE CFI	2SBP3550L8CS-4-UNV-DIM	33 W	4260 lm	0-10V DIMMING TO 5%	LAY-IN	WHITE	2X4 BACKLIT LED FLAT PANEL WITH EXTRUDED ALUMINUM FRAME AND FLAT OPAL DIFFUSER	--

GENERAL:
- ALL LED LAMPS SHALL BE MINIMUM 82 CRI.
- ALL LIGHT FIXTURES SHALL BE PROVIDED WITH UNIVERSAL DRIVERS CAPABLE OF OPERATING AT 120V OR 277V, UNO.
- FIXTURES SHOWN SHADED AND/OR NOTED WITH 'E' SHALL BE PROVIDED WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR A MINIMUM OF 90 MINUTES UPON LOSS OF NORMAL POWER.

NOTES:
1. REFER TO DETAIL C:E501 FOR INSTALLATION REQUIREMENTS.

Designation: W

Installed Location: Hallway
Voltage: 208Y/120 3PH 4W
Mounting: Surface
Enclosure: NEMA 1
Bus Amps: 225
MCB Amps: 150
Features & Modifications: -
SCCR/AIC:
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A (kVA)		B (kVA)		C (kVA)		FN	Trip (A)	Circuitry	Description	Ckt
W:1	Lighting	1/2"C,1#12,#12N,#12G	20		0.2	1.0						20	1/2"C,1#12,#12N,#12G	Cooler Lights, Etc.	W:2
W:3	Receptacles	1/2"C,1#12,#12N,#12G	20				0.4	1.2				20	1/2"C,1#12,#12N,#12G	Freezer Lights, Etc.	W:4
W:5	Heat Pump	1/2"C,2#12,#12G	20	H					2.0	1.4		20	1/2"C,1#12,#12N,#12G	Cooler Evaporator	W:6
W:7					2.0	1.4						20	1/2"C,1#12,#12N,#12G	Cooler Evaporator	W:8
W:9	Freezer Condensing Unit	3/4"C,3#6,#10G	45	H			2.8	0.2			GE	20	1/2"C,1#12,#12N,#12G	Freezer Heat Trace	W:10
W:11									2.8	2.3		25	1/2"C,2#10,#10G	Freezer Evaporator	W:12
W:13					2.8	2.3									W:14
W:15	Cooler Condensing Unit	1/2"C,3#10,#10G	25	H			1.6	0.2				20	1/2"C,1#12,#12N,#12G	Warming Cart	W:16
W:17									1.6	0.2		20	1/2"C,1#12,#12N,#12G	Warming Cart	W:18
W:19					1.6	0.2						20	1/2"C,1#12,#12N,#12G	Warming Cart	W:20
W:21	Space	--	--				--	--				--	--	Space	W:22
W:23	Space	--	--						--	--		--	--	Space	W:24
W:25	Space	--	--		--	--						--	--	Space	W:26
W:27	Space	--	--				--	--				--	--	Space	W:28
W:29	Space	--	--						--	--		--	--	Space	W:30
		Connected Load:			11352 VA		6234 VA		10132 VA						
		Connected Amps:			99.6 A		52.0 A		89.4 A						

Breaker Function Schedule

#	For any number, see panel schedule footer note
GE	Ground-Fault Protection for Equipment (30 mA)
H	HACR Rated

DRY-TYPE TRANSFORMER SCHEDULE

TAG	KVA SIZE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PHASE	GROUNDING ELECTRODE CONDUCTOR SIZE	EQUIPMENT SERVED	REMARKS
TW	45	480 V	208Y/120 3PH 4W	3	#6	PANEL W	1

GENERAL:
- ALL CONDUCTOR SIZES ARE BASED ON COPPER.
- MAXIMUM LENGTH OF SECONDARY CONDUCTORS SHALL NOT EXCEED 25'-0" PER NEC 240.21(C)(6).
- BOND GROUNDING ELECTRODE CONDUCTOR TO NEAREST GROUNDING ELECTRODE PER NEC 250.30(A)(7).

REMARKS:
1. MOUNT TRANSFORMER ON 3-1/2" HIGH CONCRETE HOUSEKEEPING PAD, OR WALL MOUNT. COORDINATE FINAL LOCATION WITH EXISTING CONDITIONS AND OWNER.

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USD 305 KITCHEN 2
REMODEL & ADDITION
SALINA, KANSAS

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2025.03.04 14:24:00-06'00'

REVISIONS:

DATE: 03/03/25
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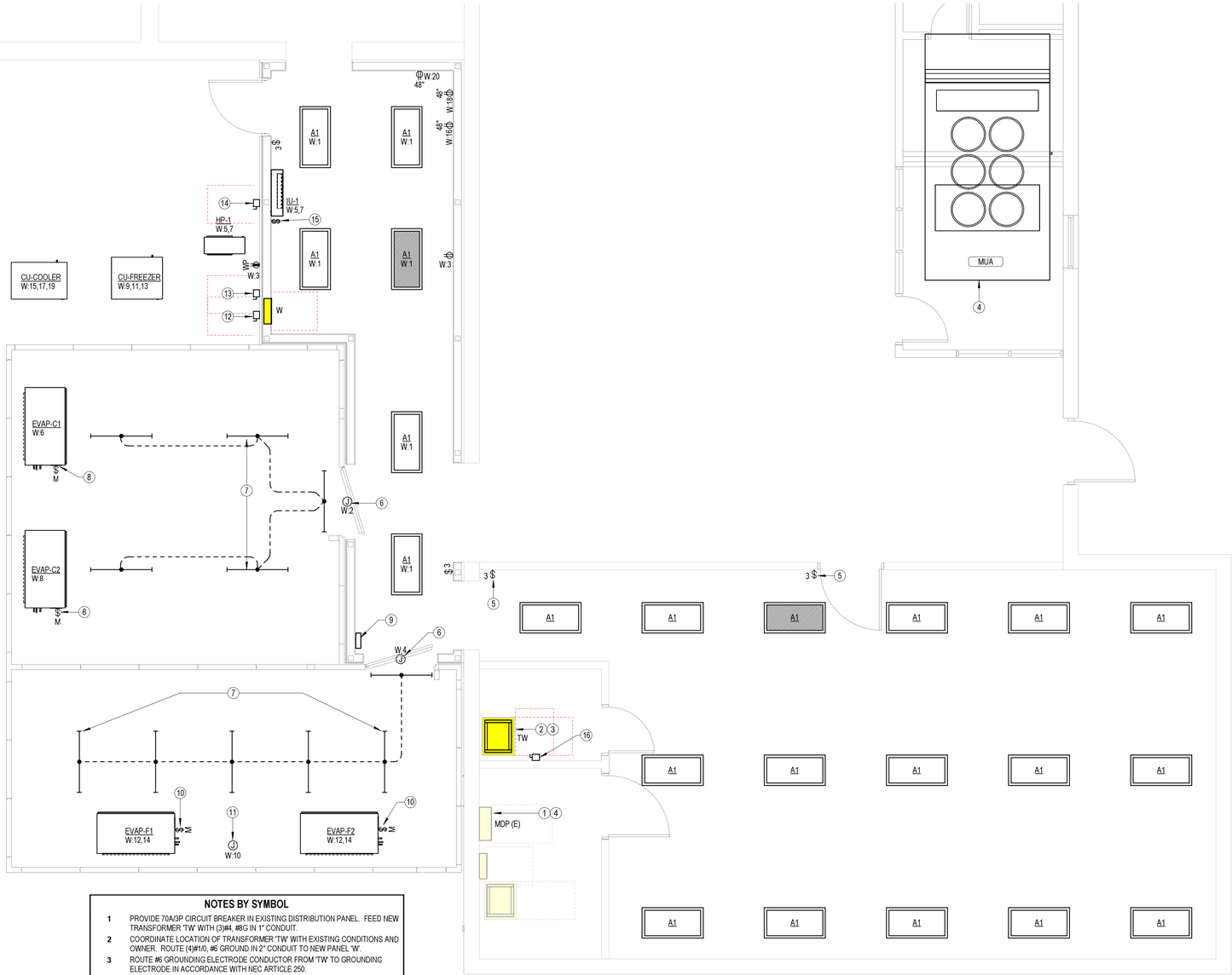

NOTES BY SYMBOL

1	PROVIDE 70A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL. FEED NEW TRANSFORMER 'TW' WITH (3)#4, #8G IN 1" CONDUIT.
2	COORDINATE LOCATION OF TRANSFORMER 'TW' WITH EXISTING CONDITIONS AND OWNER. ROUTE (4)#1/0, #6 GROUND IN 2" CONDUIT TO NEW PANEL 'W'.
3	ROUTE #6 GROUNDING ELECTRODE CONDUCTOR FROM 'TW' TO GROUNDING ELECTRODE IN ACCORDANCE WITH NEC ARTICLE 250.
4	REPLACE EXISTING CIRCUIT BREAKER SERVING MUA WITH NEW 125A/3P BREAKER AND FEED REPLACEMENT MUA WITH (3)#1, #6 GROUND IN 1-1/4" CONDUIT. EXISTING CONDUIT AND CONDUCTORS, IF EQUAL OR LARGER, MAY BE REUSED PROVIDED THEY ARE IN SERVICEABLE CONDITION.
5	PROVIDE NEW 3-WAY SWITCHING FOR LIGHTING IN THIS ROOM. MODIFY CIRCUITRY AS REQUIRED.
6	CONNECT POWER TO FREEZER/COOLER. COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDED.
7	INSTALL LIGHT FIXTURES PROVIDED WITH FREEZER/COOLER AND ROUTE CIRCUITRY TO FIXTURE ABOVE DOOR. UTILIZE FLEXIBLE LIQUIDTIGHT CONDUIT INSIDE FREEZER/COOLER. COORDINATE FASTENING REQUIREMENTS INSIDE FREEZER/COOLER WITH EQUIPMENT SUPPLIER.
8	PROVIDE 20A/1P MOTOR RATED SWITCH AND CONNECT EVAPORATOR. SEE E-501 FOR COOLER EVAPORATOR WIRING DIAGRAM.
9	INSTALL FREEZER DEFROST TIMECLOCK AND CONNECT EVAPORATORS. SEE E-501 FOR FREEZER EVAPORATOR WIRING DIAGRAM.
10	PROVIDE 30A/2P MOTOR RATED SWITCH AND CONNECT EVAPORATOR.
11	CONNECT FREEZER EVAPORATOR DRAIN HEAT TRACE.
12	PROVIDE 30A/3P NEMA 3R DISCONNECT SWITCH FOR COOLER CONDENSING UNIT.
13	PROVIDE 60A/3P NEMA 3R DISCONNECT SWITCH FOR FREEZER CONDENSING UNIT.
14	PROVIDE 30A/2P NEMA 3R DISCONNECT SWITCH FOR HEAT PUMP.
15	PROVIDE 20A/3P MOTOR RATED SNAP SWITCH AND CONNECT INDOOR UNIT. PROVIDE REQUIRED CIRCUITRY TO OUTDOOR UNIT.
16	PROVIDE 100A/480V/3P NEMA 1 DISCONNECT SWITCH AND CONNECT TRANSFORMER.

NOTE:
PROVIDE ELECTRICAL CONNECTIONS TO ALL EQUIPMENT SHOWN. COORDINATE REQUIREMENTS WITH FOOD SERVICE EQUIPMENT SUPPLIER.

A FLOOR PLAN - ELECTRICAL

1/4" = 1'-0"

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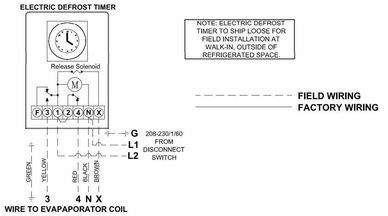
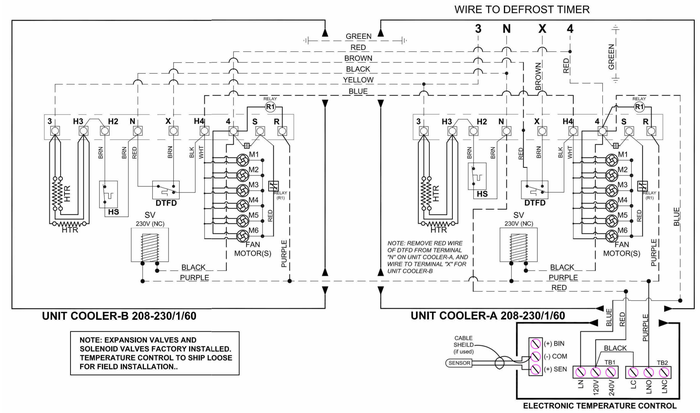
03/03/25



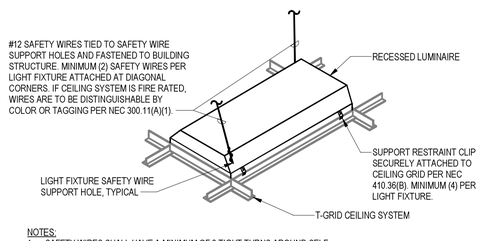


NOTE: EXPANSION VALVES AND SOLENOID VALVES FACTORY INSTALLED. TEMPERATURE CONTROL TO SHIP LOOSE FOR FIELD INSTALLATION.

A FREEZER EVAPORATOR WIRING DIAGRAM
NO SCALE

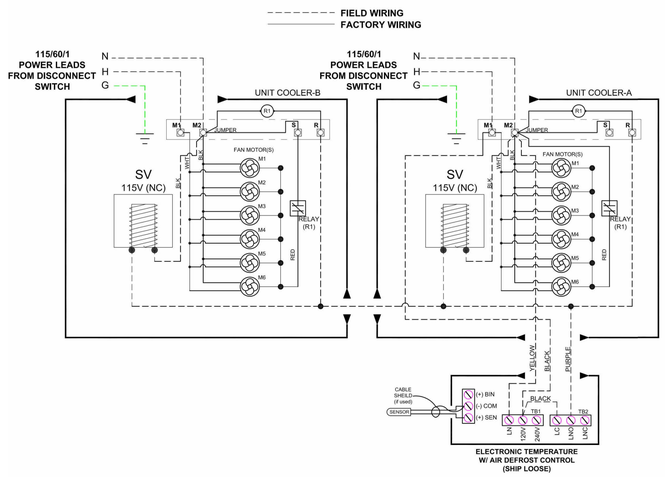
NOTES:
- ALL PENETRATIONS THRU WALK-IN TO BE COORDINATED WITH FSC AND THOROUGHLY SEALED.
- ALL LIGHT FIXTURES TO BE FURNISHED BE FSC, INSTALLED BY EC.
- ALL CONDUIT, INTERWIRING, AND MOUNTING OF FIXTURES BY EC.

D WALK-IN COOLER LIGHTING
NO SCALE



NOTES:
1. SAFETY WIRES SHALL HAVE A MINIMUM OF 3 TIGHT TURNS AROUND SELF.
2. FIXTURE INSTALLATION TO COMPLY WITH ASTM C636 AND CISCA STANDARDS.

C RECESSED LUMINAIRE SUPPORT
NO SCALE



B COOLER EVAPORATOR WIRING DIAGRAM
NO SCALE

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REMODEL & ADDITION

SALINA, KANSAS

JOHN F. LEWIS SMITH
14654
KANSAS
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2025.03.04 14:24:49-06'00'

REVISIONS:

DATE: 03/03/25
JOB: 23-3323
SHEET NO.:

E-501