

WALTON MIDDLE SCHOOL
 WALK-IN COOLER
 AND FREEZER
 REPLACEMENT
 ALBEMARLE COUNTY PUBLIC SCHOOLS


IFB #2021-073-IFB-04063



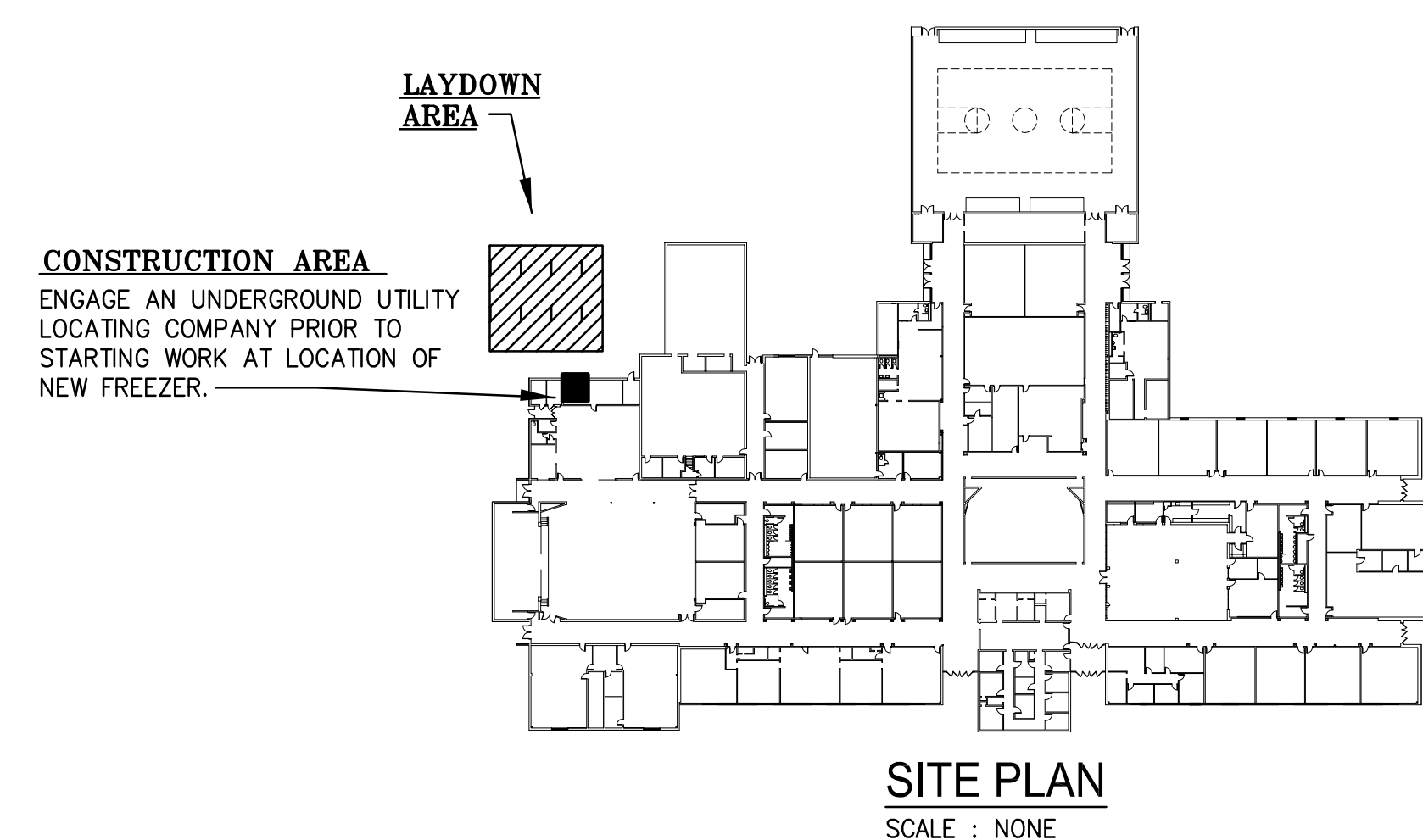
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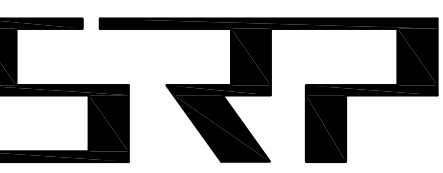
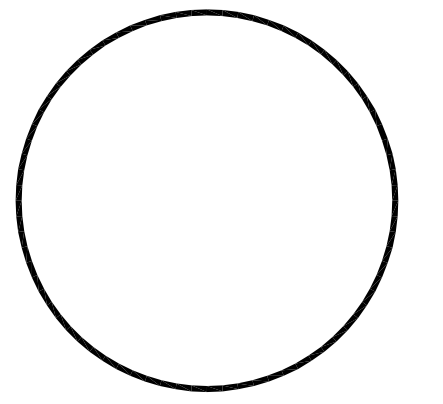
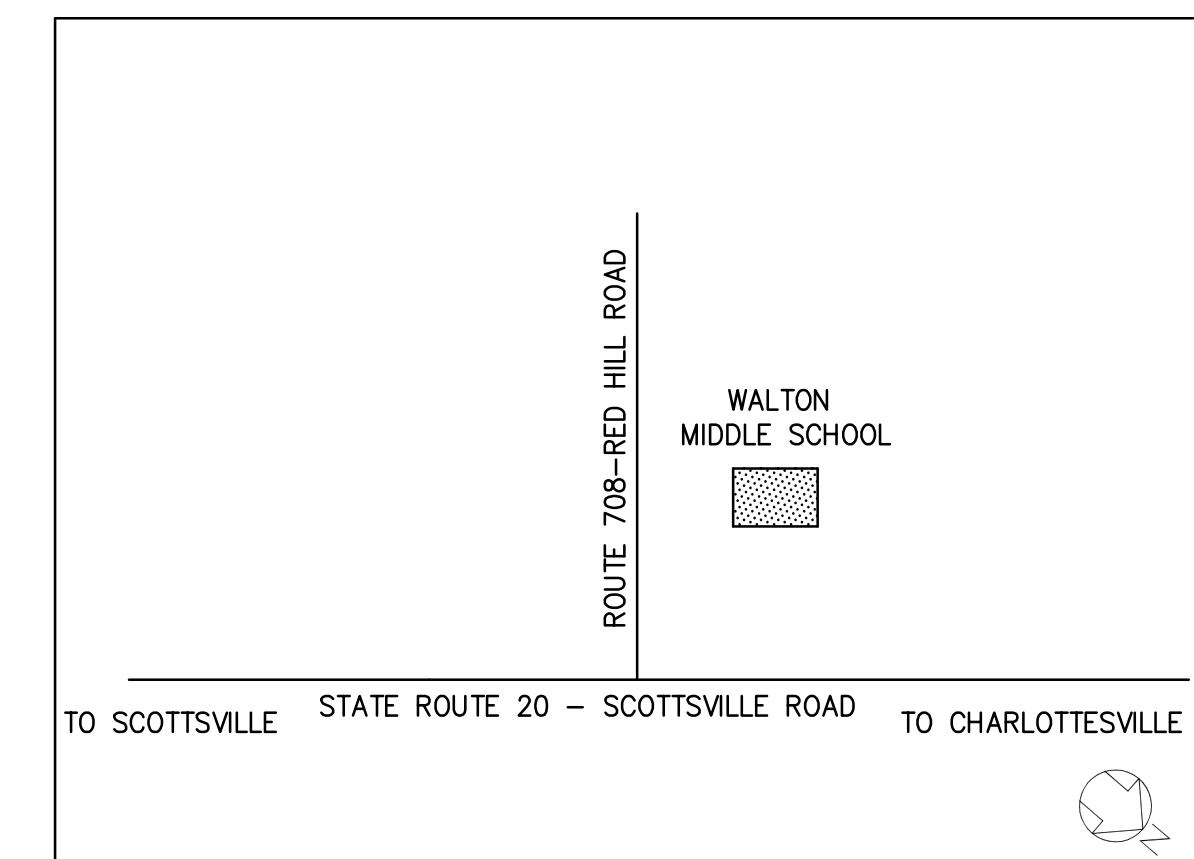


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List of Drawings

- CS COVER SHEET
- A1.1 DEMOLITION AND NEW WORK PLANS AND DETAILS – ARCHITECTURAL
- K1.1 KITCHEN EQUIPMENT PLANS AND DETAILS
- S1.1 STRUCTURAL PLANS AND DETAILS
- E1.1 KITCHEN FLOOR PLAN DEMOLITION AND NEW WORK ELECTRICAL



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JOB NAME:

WALTON MIDDLE SCHOOL

WALK-IN COOLER AND FREEZER

4217 RED HILL ROAD
 CHARLOTTESVILLE, VIRGINIA 22903

DRAWING TITLE:

COVER SHEET

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: TAR III **CHECKED BY:** TAR III

COMM. NO.: 21004 **DATE:** 03/01/21

SHEET NO.:
 CS
 OF: 1

GENERAL DEMOLITION NOTES

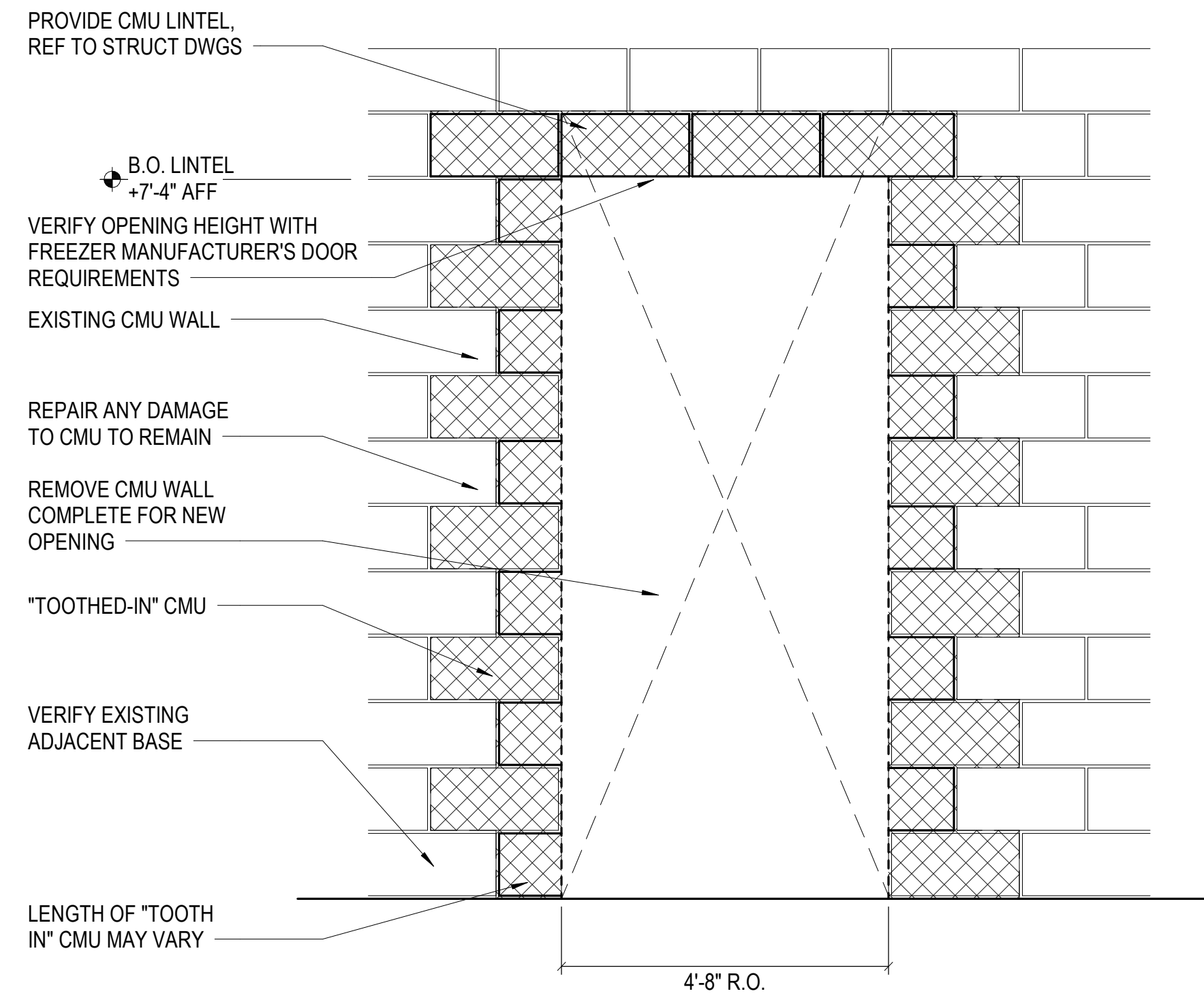
- WHEREVER ANY EXISTING CEILING OR OTHER ARCHITECTURAL SURFACE OR FINISH IS DEMOLISHED, CUT, OR OTHERWISE DISTURBED BY THIS WORK, PROVIDE COMPLETE COORDINATION WITH MECHANICAL AND ELECTRICAL WORK FOR REMOVAL AND/OR RELOCATION OF ANY AND ALL FIXTURES, PIPES, DUCTS, ETC., AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF ALL BUILDING FEATURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- ALL DEMOLITION WORK SHALL BE CARRIED OUT IN A MANNER TO PROTECT ALL ADJACENT SURFACES WHICH REMAIN IN PLACE, PARTICULARLY FINISH SURFACES WHICH WILL REMAIN EXPOSED IN THE COMPLETED WORK. ANY DAMAGE SHALL BE REPAIRED TO MATCH SURROUNDING WORK.
- WHEREVER EXISTING MECHANICAL DEVICES OR ELECTRICAL DEVICES OCCUR ON OR IN EXISTING SURFACES WHICH ARE REMOVED, COORDINATE WITH MECHANICAL AND ELECTRICAL SUBCONTRACTORS FOR REMOVAL OF THE FIXTURES AND DEVICES AND FOR CAPPING OR RELOCATION OF PIPES, CONDUITS, ETC., BELOW OR BEHIND FINISHED SURFACES AS REQUIRED FOR A COMPLETE, FINISHED INSTALLATION IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- ALL EXISTING WALLS, CEILINGS, FLOORS, SUBSTRATES AND OTHER SURFACES WHICH WILL REMAIN EXPOSED IN THE FINISHED WORK AND WHICH ARE MARRED OR DAMAGED BY DEMOLITION WORK OR ANY OTHER CONSTRUCTION WORK SHALL BE PATCHED AS REQUIRED TO MATCH THE ADJACENT SURFACE. SUCH SURFACES WHICH ARE COATED WITH EXISTING PAINT SHALL BE REPAINTED WITH SUFFICIENT COATS OF PAINT TO COMPLETELY HIDE THE PATCHING WORK.
- PROPER PROTECTION FOR THE EXISTING ROOF MEMBRANE MUST BE PROVIDED AND ALL WORK SHALL BE DONE IN A MANNER SO THAT THE EXISTING ROOF SYSTEM GUARANTEE IS NOT VOIDED, REDUCED OR OTHERWISE AFFECTED.
- THE CONTRACTOR SHALL CAREFULLY NOTE WHICH AREAS AND SURFACES OF THE EXISTING BUILDING ARE NOT TO RECEIVE ANY DEMOLITION OR REMODELING WORK AND THOSE AREAS OF THE BUILDING SHALL BE PROTECTED THROUGHOUT CONSTRUCTION FROM ANY DAMAGE DUE TO WORK UNDER THIS CONTRACT, INCLUDING THE INADVERTENT REMOVAL OF ANY MATERIALS OR EQUIPMENT WHICH ARE TO REMAIN UNCHANGED.
- ALL DEMOLITION WORK IN ANY INTERIOR SPACE IN THE PROJECT SHALL BE CARRIED OUT IN A MANNER TO AVOID DAMAGE OF ANY KIND TO ALL ADJACENT SURFACES AND FINISHES WHICH WILL REMAIN IN THE FINISHED PROJECT.
- EXISTING ACOUSTICAL TILE CEILINGS TO BE REMOVED AS PART OF THIS WORK INCLUDES ALL GRID, SUSPENSION SYSTEM AND PERIMETER TRIM. WHERE EDGE ANGLES FOR THESE CEILINGS ARE REMOVED FROM WALLS, PATCH WALLS AS REQUIRED TO MATCH SURROUNDING WORK.

DEMOLITION KEY NOTES (THIS SHEET ONLY)

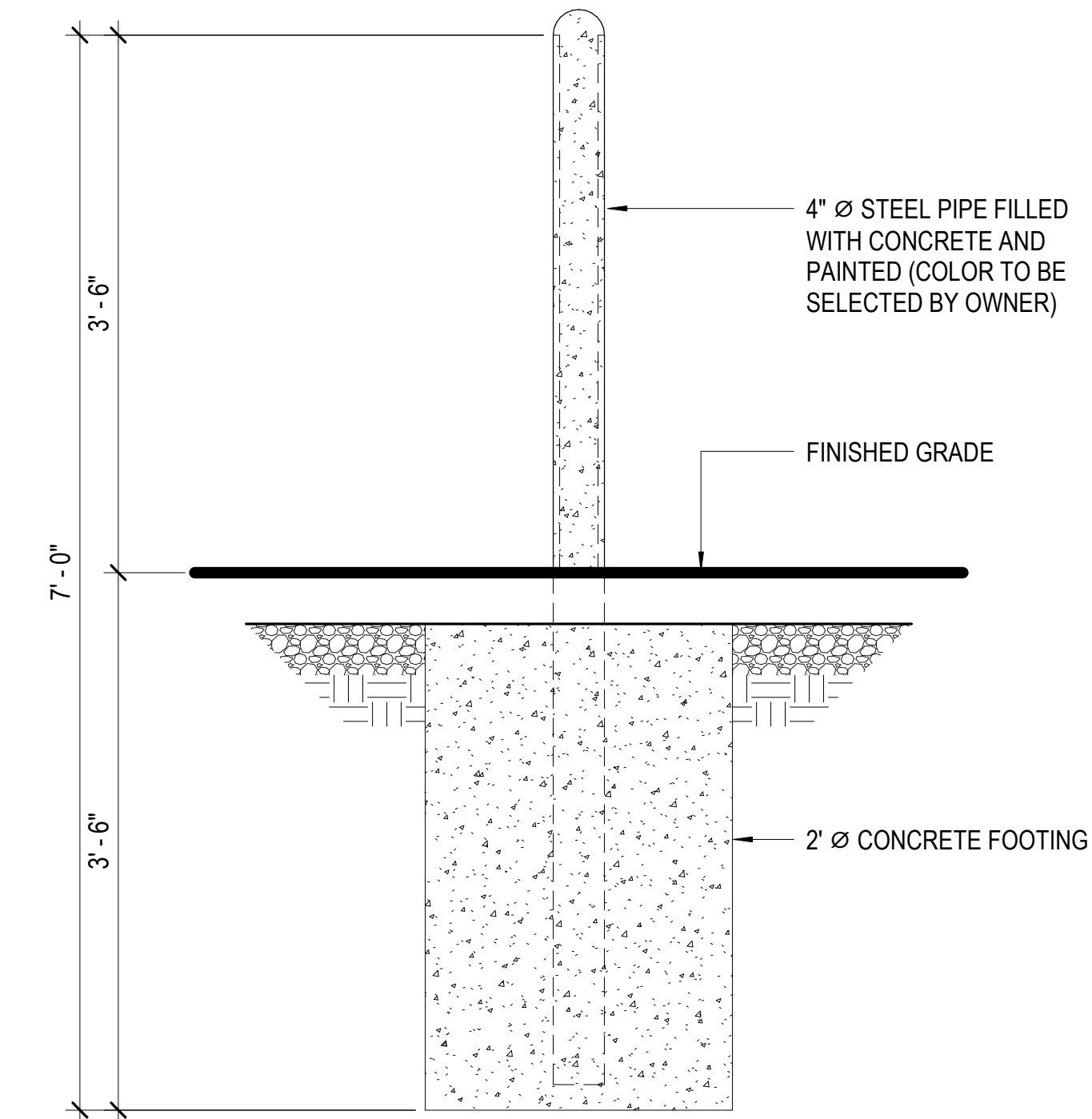
- REMOVE EXISTING WALK-IN BOX COOLER, INCLUDING WALL PANELS, FLOOR PANELS, CEILING PANELS, DOOR, TRIM PANELS, REFRIGERATION EQUIPMENT, ELECTRICAL CONNECTIONS, ETC. EXISTING CONCRETE SLAB UNDER WALK-IN BOX TO REMAIN.
- CLEAN AND LEVEL EXISTING CONCRETE SLAB IN PREPARATION FOR NEW WALK-IN BOX.
- REMOVE EXISTING MASONRY WALL DOWN TO CONCRETE SLAB. CLEAN AND LEVEL SLAB UNDER WALL. COORDINATE WITH STRUCTURAL DRAWINGS FOR MASONRY REMOVAL AT JAMBS.
- REMOVE, SALVAGE AND REINSTALL EXISTING RESILIENT BASE AT WALK-IN BOX AND PREPARE ADJACENT SURFACES FOR REPAIR.
- SAW CUT EXISTING ASPHALT AND PREPARE FOR NEW CONCRETE PAD. VERIFY EXTENTS WITH NEW WALK-IN BOX FREEZER.
- EXISTING FENCE TO REMAIN.
- REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED PIPING AND ELECTRICAL WORK. PATCH CMU WALL AT REMOVED THRU WALL PENETRATIONS TO MATCH EXISTING.

NEW WORK KEY NOTES (THIS SHEET ONLY)

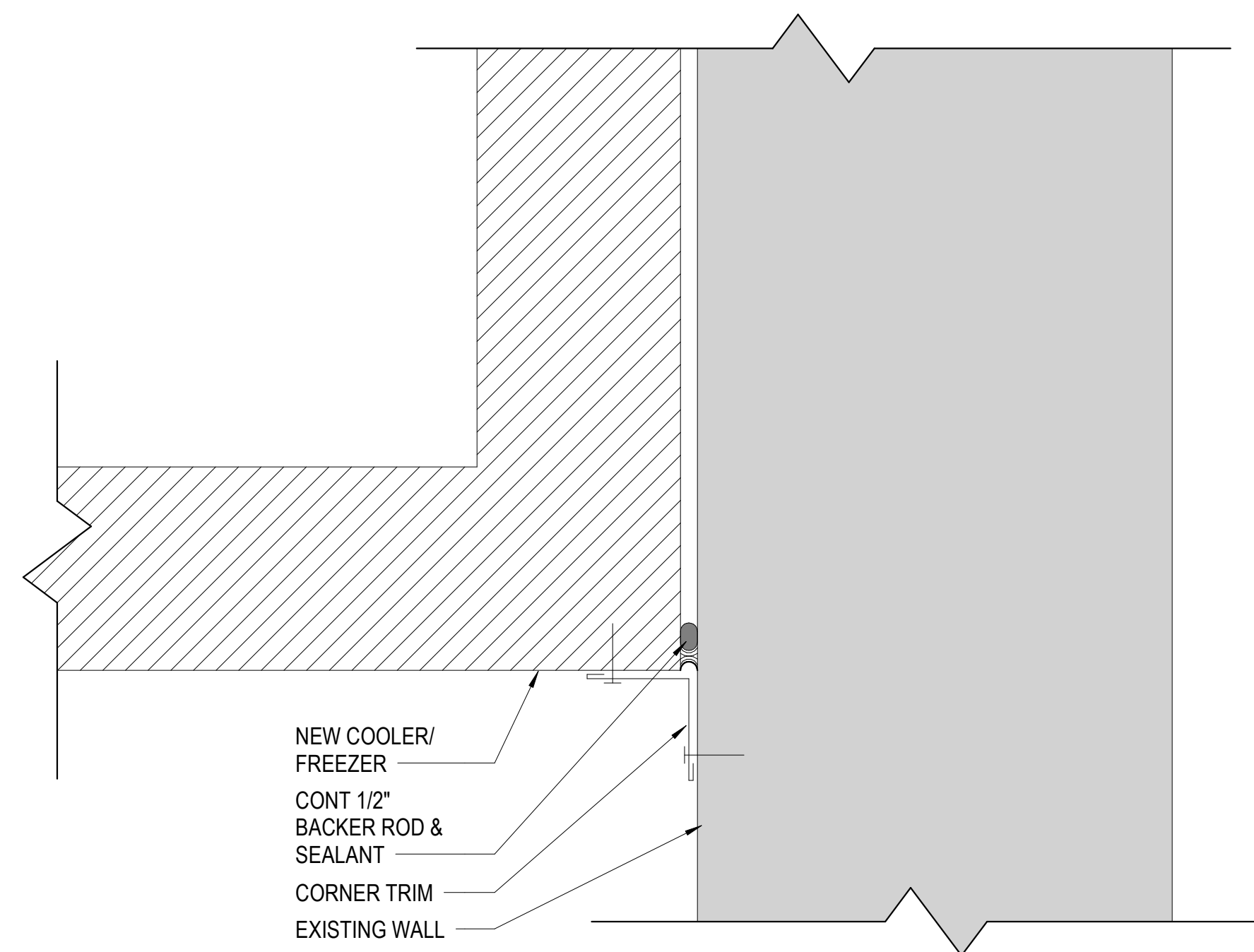
- NEW WALK-IN BOX FREEZER
- NEW WALK-IN BOX COOLER
- CLEAN AND LEVEL EXISTING CONCRETE SLAB IN PREPARATION FOR NEW WALK-IN BOX
- PROVIDE CONCRETE TO MATCH SLAB ELEVATION AT REMOVED EXTERIOR WALL. PROVIDE NEW VCT FLOORING AT CMU OPENING TO MATCH EXISTING ADJACENT FLOORING. PROVIDE BLOCK FILLER AND TWO COATS OF PAINT AT NEW CMU.
- PROVIDE NEW 4" THICK TURNED-DOWN CONCRETE SLAB. EXTEND 6" BEYOND FOOTPRINT OF FREEZER. TYPICAL. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- FREEZER CORNER TRIM - REFER TO DETAIL 3/A1.1
- FREEZER ROOF FLASHING - REFER TO DETAIL 4/A1.1
- CMU OPENING HEADER DETAIL - REFER TO STRUCTURAL DRAWINGS
- PROVIDE NEW 4" Ø STEEL PIPE BOLLARDS FILLED WITH CONCRETE. REFER TO DETAIL 6/A1.1
- ASPHALT INFILL AROUND CONCRETE SLAB AT FREEZER. SLOPE ASPHALT AWAY FROM CONCRETE DOWN TO MATCH EXISTING ASPHALT.
- PROVIDE RUBBER THRESHOLD TRANSITION
- REPAINT EXISTING WHITE BLOCK ABOVE WALK-IN FREEZER TO MATCH EXISTING ADJACENT BLOCK. SEAL CRACKS AND JOINTS WHERE VISIBLE IN FIELD. PAINT AND SEAL MINIMUM TWO FEET BEYOND FOOTPRINT OF WALK IN FREEZER EACH SIDE, OR TO NEAREST MASONRY JOINT. EXTENTS NOTED BY DASHED LINE.



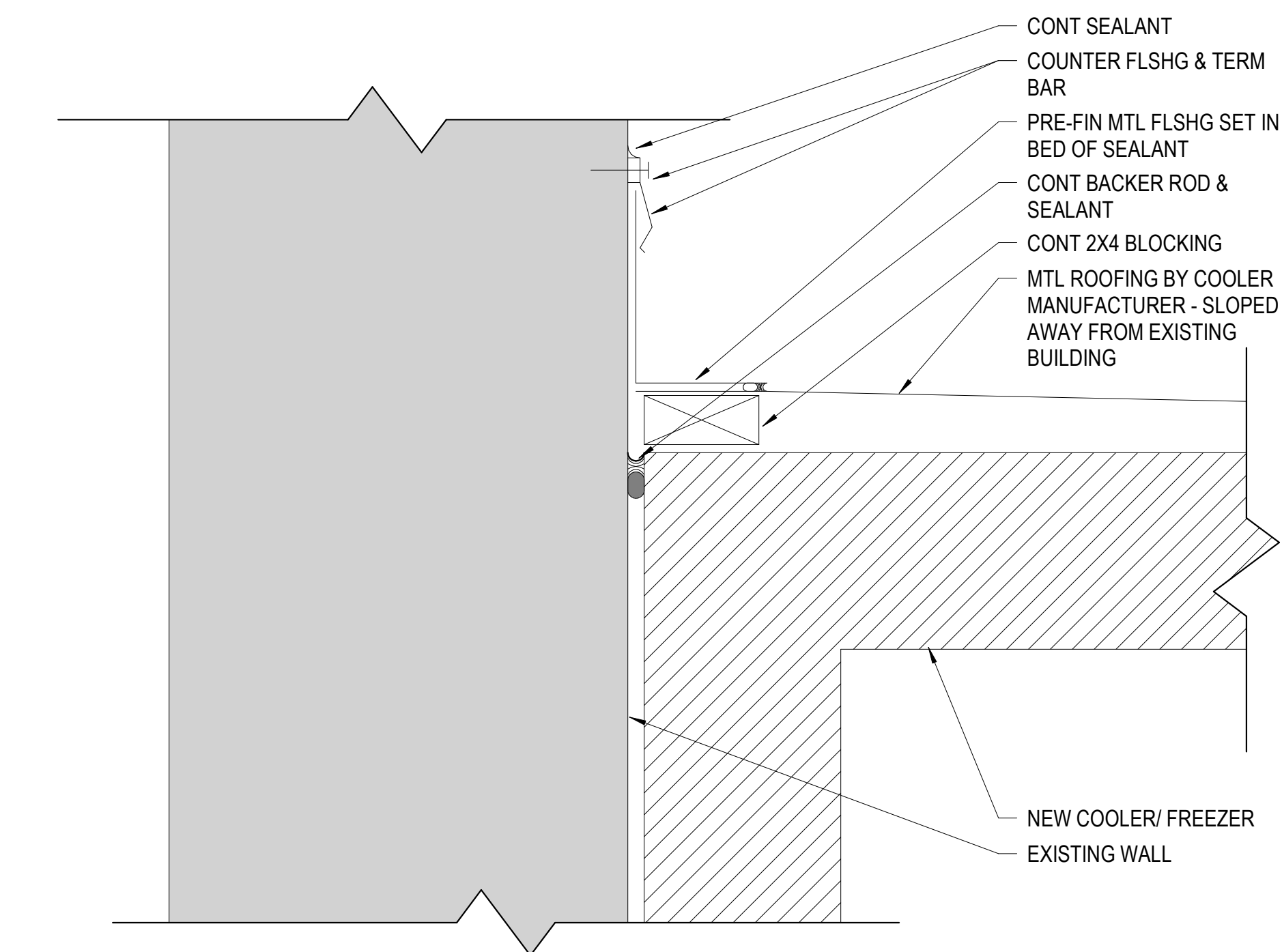
5 TYPICAL CMU OPENING
A1.1 NOT TO SCALE



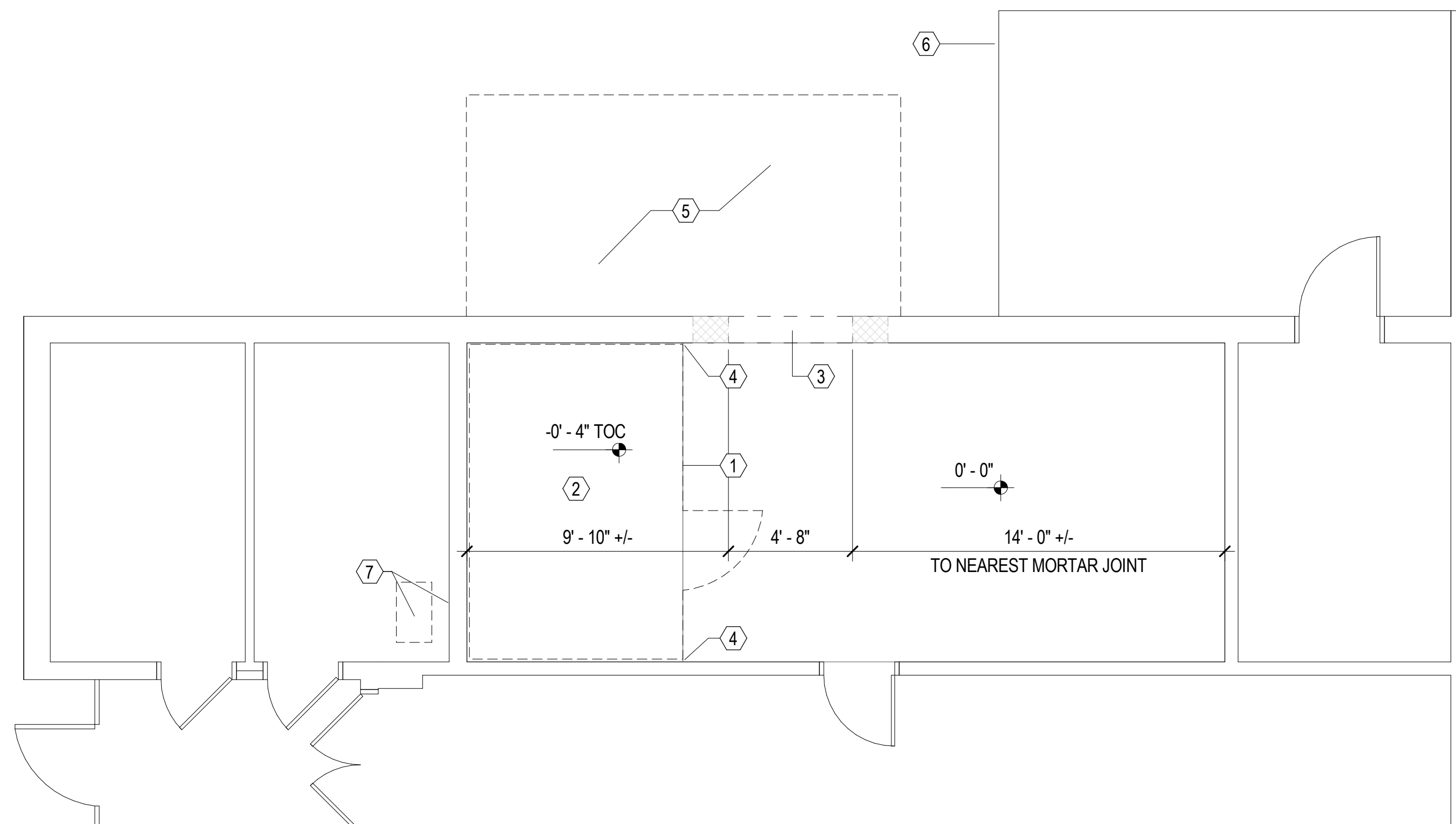
6 TYPICAL PIPE BOLLARD
A1.1 SCALE: 1" = 1'-0"



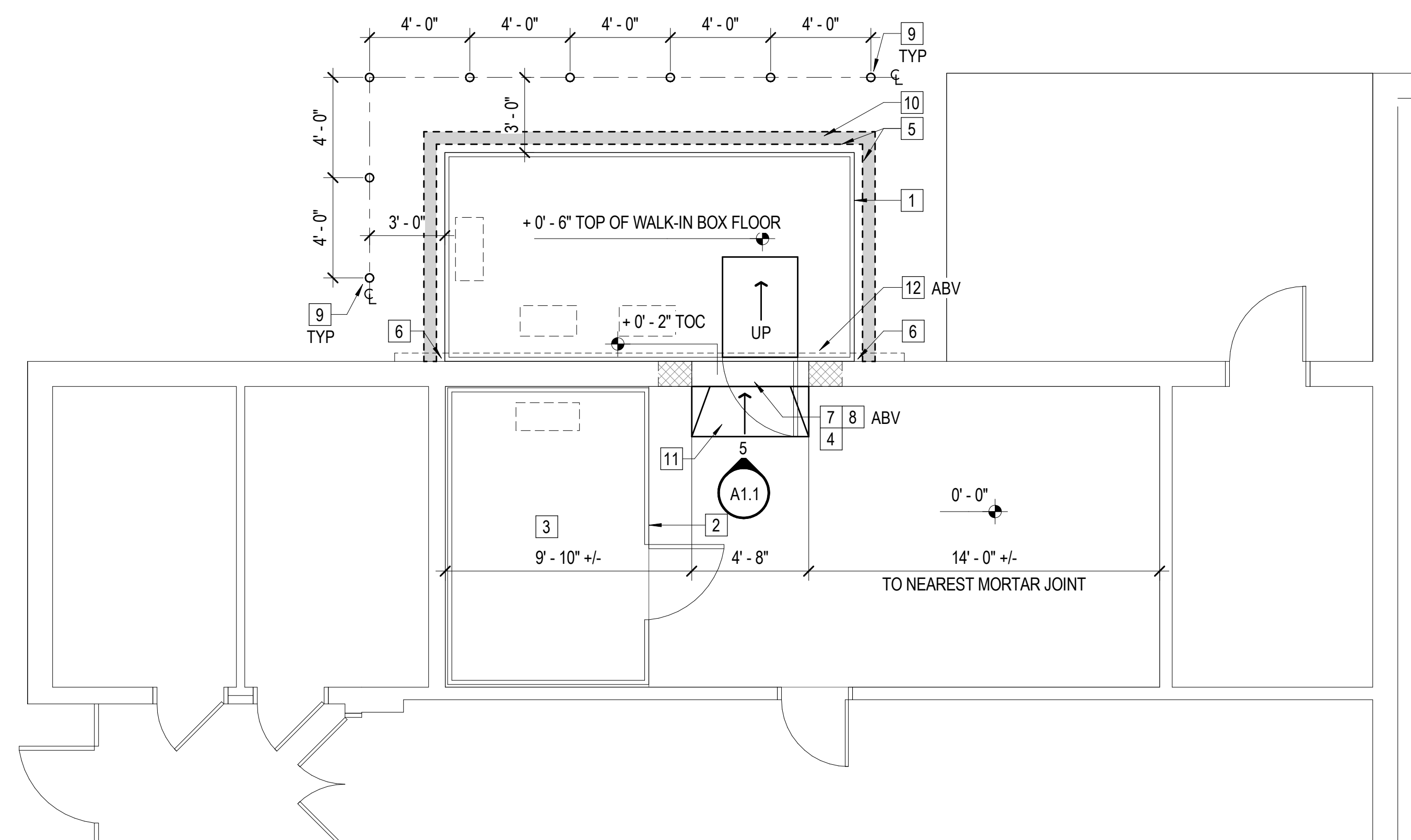
3 COOLER - PLAN DETAIL AT CORNER
A1.1 SCALE: 3" = 1'-0"



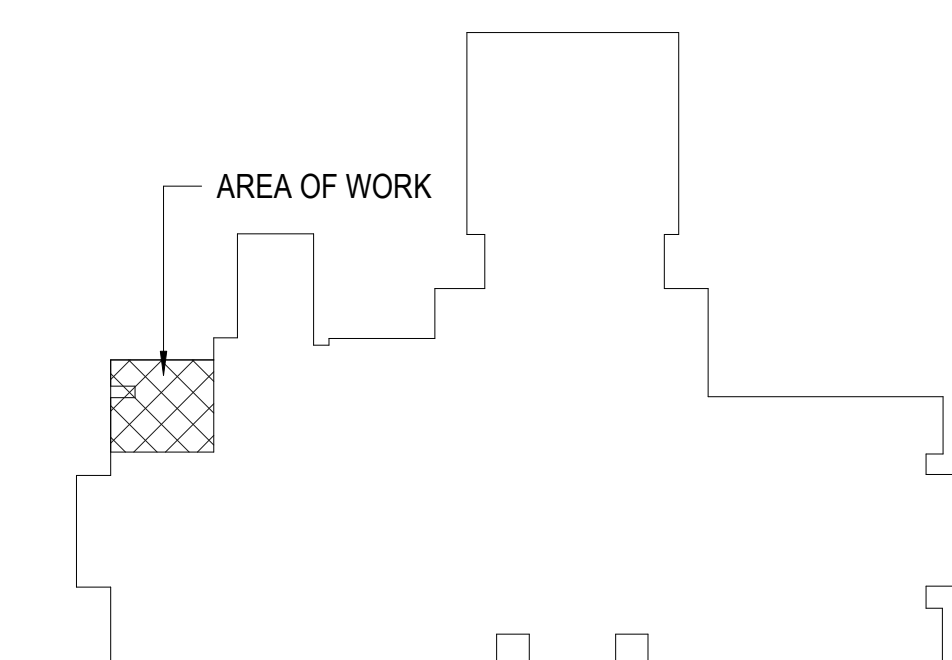
4 COOLER - SECTION DETAIL AT ROOF
A1.1 SCALE: 3" = 1'-0"



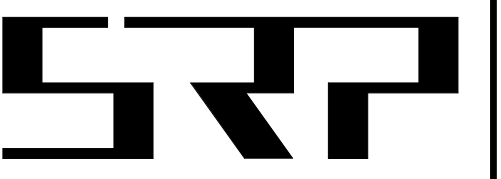
1 FLOOR PLAN - DEMOLITION
A1.1 SCALE: 1/4" = 1'-0"



2 FLOOR PLAN - NEW WORK
A1.1 SCALE: 1/4" = 1'-0"



KEY PLAN
NOT TO SCALE



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JOB NAME:

WALTON MIDDLE SCHOOL

WALK-IN COOLER AND FREEZER

4217 RED HILL ROAD
CHARLOTTESVILLE,
VIRGINIA 22903

DRAWING TITLE:

DEMOLITION AND NEW WORK PLANS AND DETAILS - ARCHITECTURAL

REVISIONS:

NO. DATE DESCRIPTION:

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

JAS DJW

COMM NO. 03/01/2021

03/01/2021

SHEET NO.

A1.1

OF 1

GENERAL NOTES

A. CAULK: SILICONE GREY (4 TUBES)

KEY NOTES

1. NOT USED
2. VERTICAL TRIM METAL: L-SHAPED - (MATCH PANEL FINISH) - VERIFY DIMENSIONS
3. CEILING CLOSURE PANEL: REMOVABLE (MATCH PANEL FINISH) - VERIFY DIMENSIONS
4. LIGHT FIXTURE: LED 45W 48" LSV4U4550 MAXLITE

COMPARTMENT SCHEDULE

C-01	HEIGHT: 103"
35° COOLER	
LOCK TO CEILING	DETAIL: E/Q-01
LOCK TO FLOOR	DETAIL: F/Q-01
WALL PANEL RAIL: FOAM	THICK: 4" RECS:
FINISHES:	
INT/EXT - ACRYLUME/EMBOSSSED - 26 GA.	
CEILING PANEL RAIL: FOAM	THICK: 4
FINISHES:	
INT/EXT - ACRYLUME/EMBOSSSED - 26 GA.	
FLOOR PANEL RAIL: FOAM	THICK: 4 1/8" RECS:
FINISHES:	
INT - ALUMINUM DIAMOND TREAD BRITE - .100 NSF	
EXT - ACRYLUME/EMBOSSSED - 26 GA.	

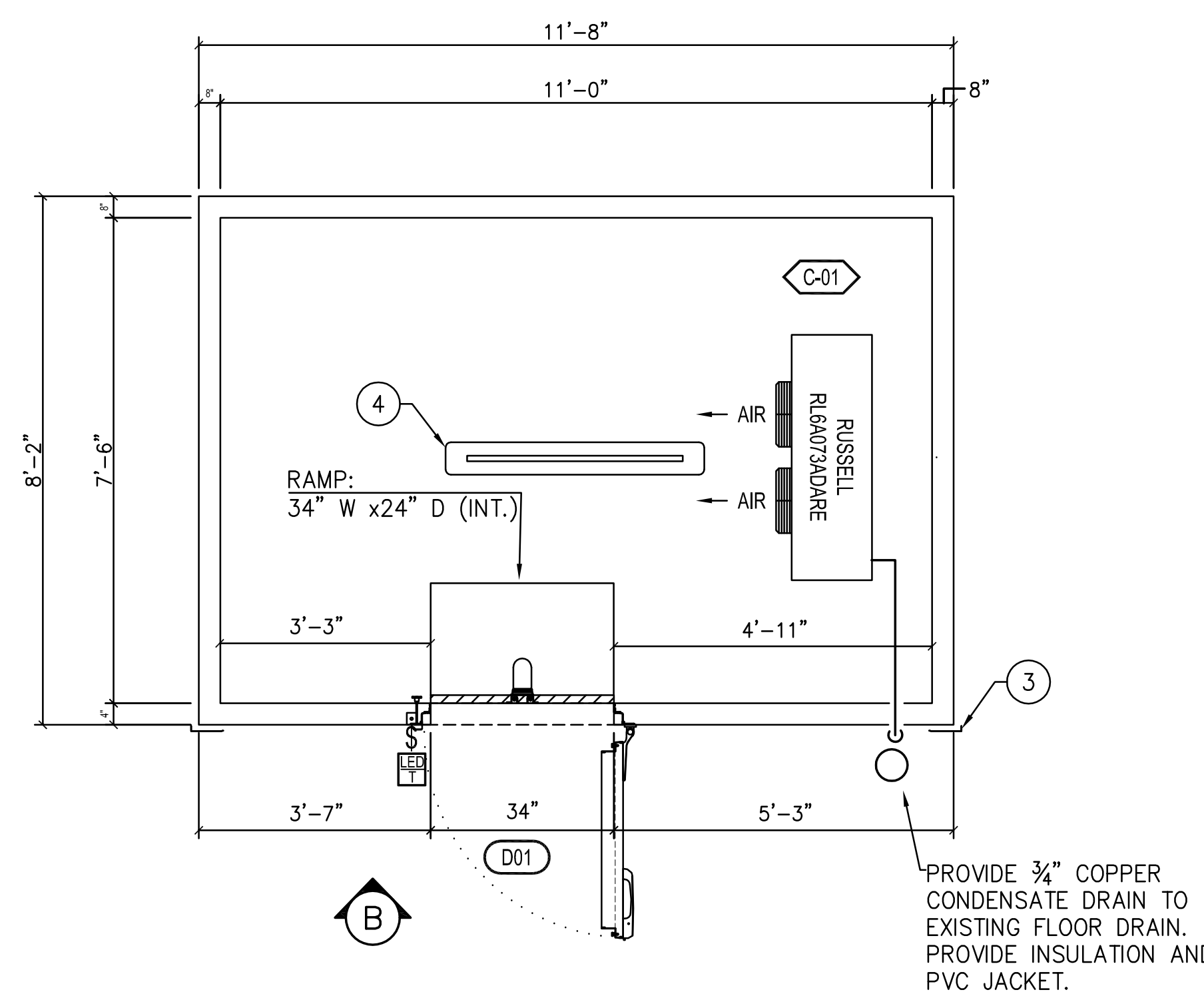
DOOR SCHEDULE - SWING

D01	COOLER
34"Wx78"H	
SILL:	ALLOWANCE: DETAIL: G/Q-01
FLUSH MOUNT	CLOSER: KASON 1094
VENT:	
VIEWPORT:	
HINGE: KASON 1248	QTY: 3
LATCH: KASON 27C	RELEASE:
SWITCH / ALARM: 1967-2 DIGITAL THERMOMETER W/ SWITCH (TR)	
PULL HANDLE:	
KICKPLATE: 36"H A.D.T. (INT/EXT)	
JAMB KICKPLATE: 36"H A.D.T. (INT/EXT)	
LIGHT: KASON 1806 - LED (MOUNTED TO JAMB)	
MAGNETIC GASKET	
STRIP CURTAIN	

REFRIGERATION

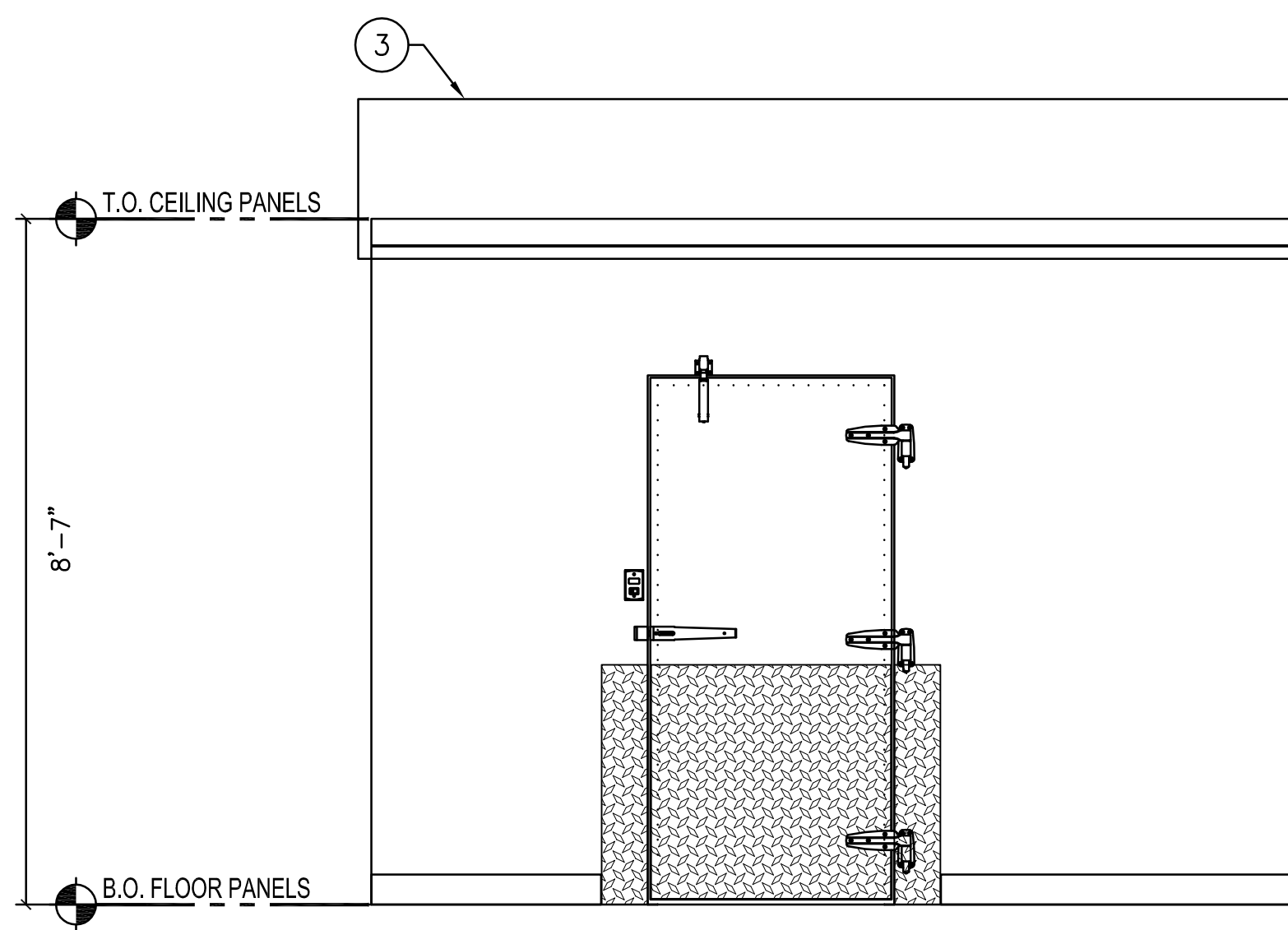
REFRIGERATION CONDENSING UNIT FOR HOLDING COOLER	
MANUFACTURER:	HTPG - RUSSELL DOE
DESCRIPTION:	NEXT-GEN MINI-COOL CONDENSING UNIT. EXTENDED MEDIUM TEMPERATURE. HERMETIC COMPRESSOR. 208-230V/1PH. FLOODED. NO DEFROST PROVISIONS. ADJUSTABLE LOW PRESSURE CONTROL. RFH100E45DBALNT
MODEL:	1HP
HORSEPOWER:	1HP
EXTRAS:	LIQUID LINE, FILTER, DRIER, SIGHT GLASS INSTALLED
ELECTRICAL:	208-230V/1PH, RLA 9.8, MOPD N/A, MCA 1
CONDITIONS:	BTUH: 9110 ROOM TEMP: 35°F AMBIENT: 95°F
WARRANTY:	COMPRESSOR-MOTOR WARRANTY EXTENDED TO 5-YEARS, PARTS ONLY, NO LABOR
1 X EVAPORATOR UNIT COOLER	
MANUFACTURER:	HTPG - RUSSELL DOE
DESCRIPTION:	AIR DEFROST LOW-PROFILE WITH DUAL SPEED EC MOTOR, ELECTRONIC EEV. AIR DEFROST: 115V/60. ECONET ENABLED COIL. RL6A073ADARE
MODEL:	NONE
EXTRAS:	NONE
ELECTRICAL:	115V/60. FAN AMPS 1.6, DEFROST AMPS N/A

ELECTRICAL INFORMATION			
ITEM DESCRIPTION	QTY.	VOLTAGE (V) (EA)	AMPS (A) (EA)
KASON 1806 LED FIXTURE	1	120	0.09
KASON 1967-2 TEMPERATURE DISPLAY AND SWITCH	1	120	20.00



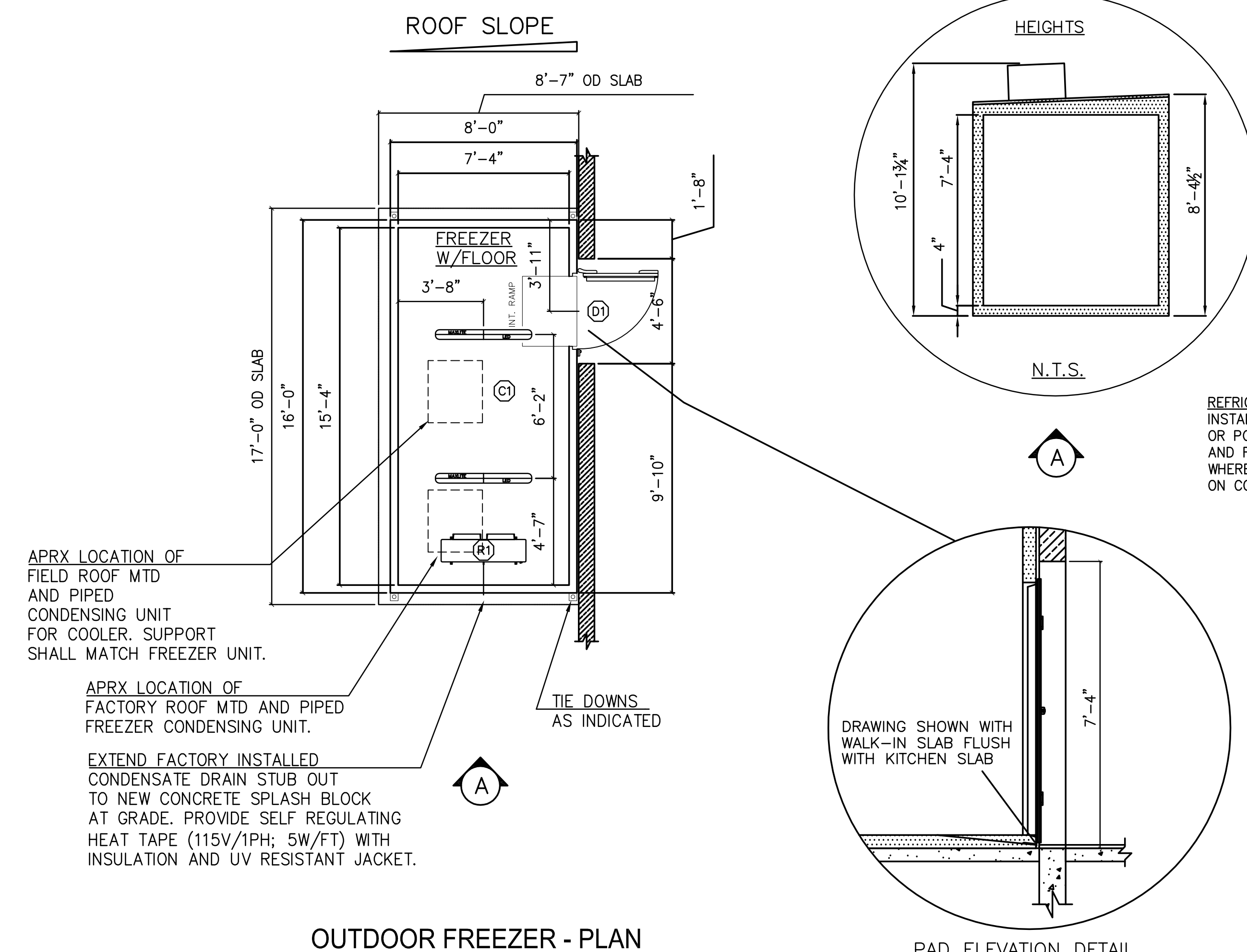
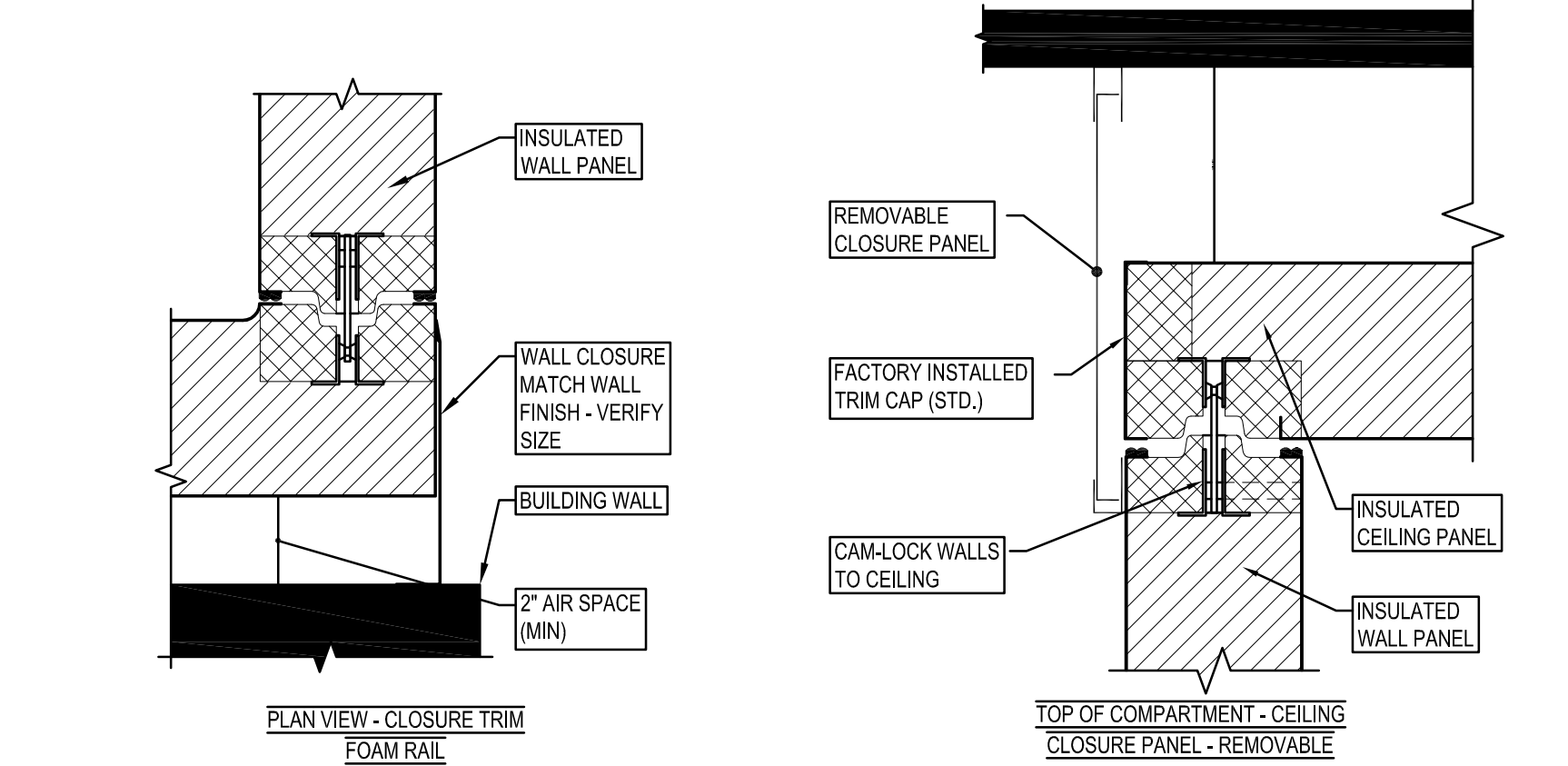
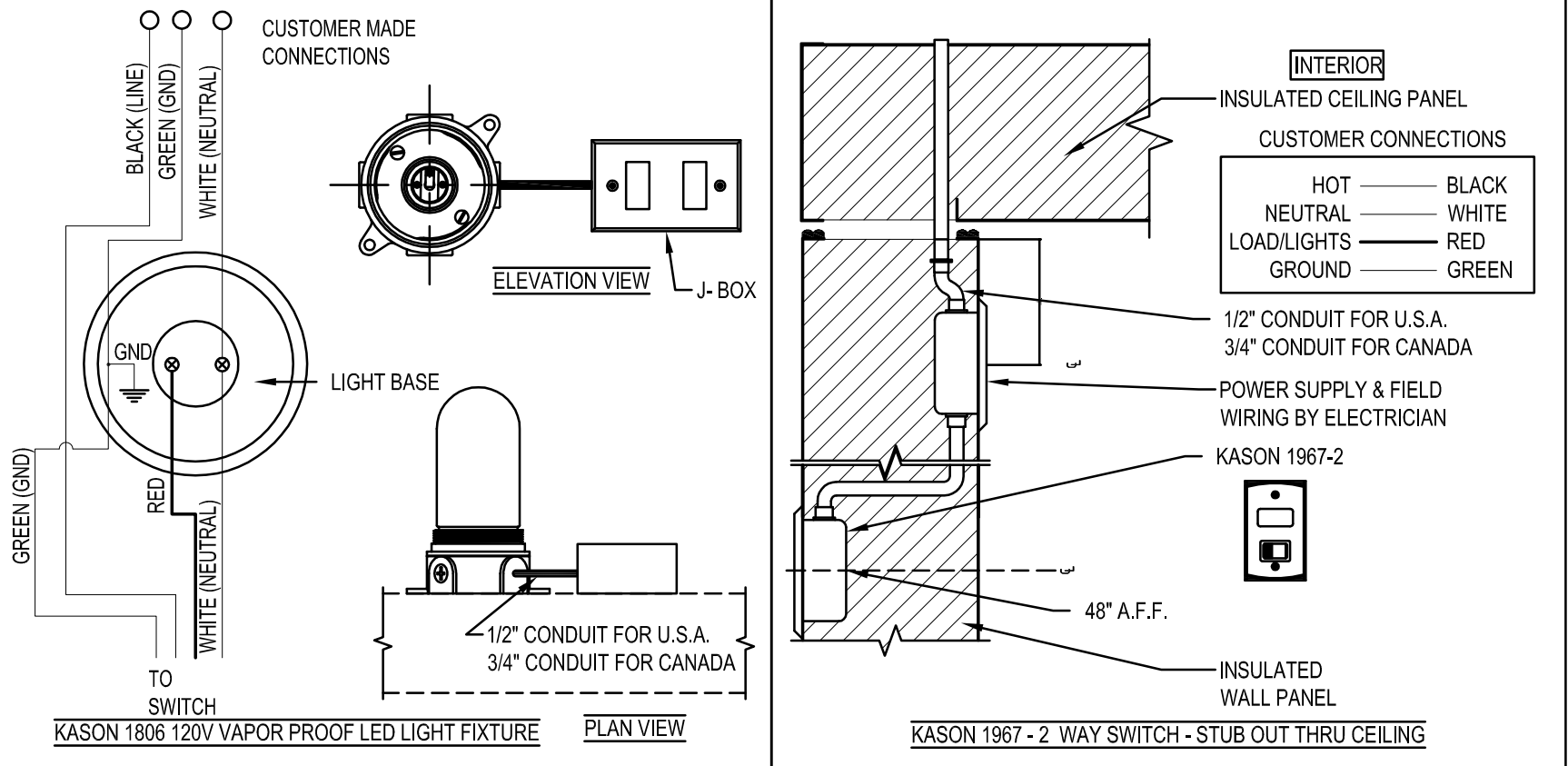
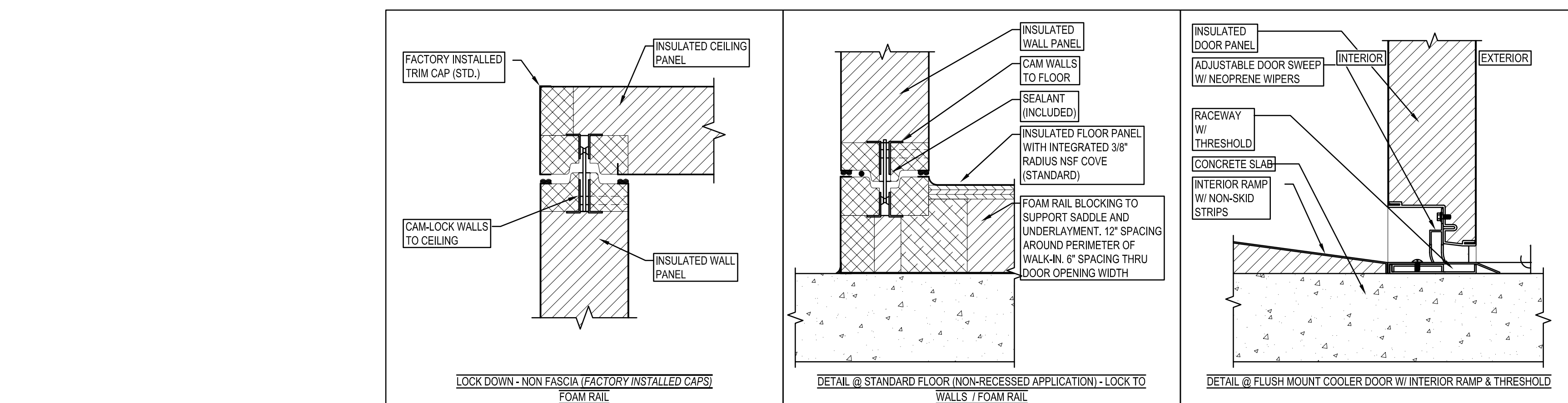
INDOOR WALK IN COOLER - PLAN

SCALE : NONE



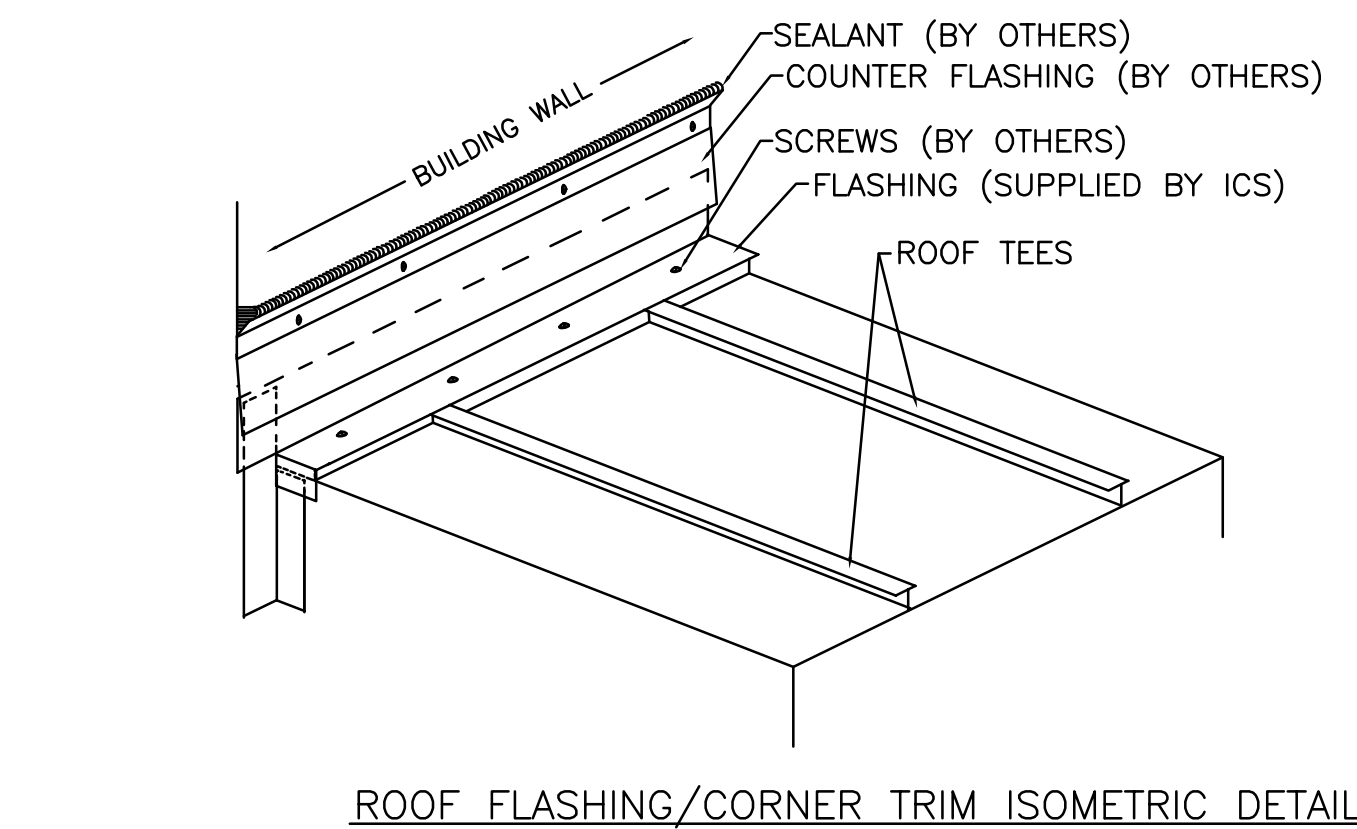
INDOOR WALK IN COOLER - ELEVATION B

SCALE : NONE

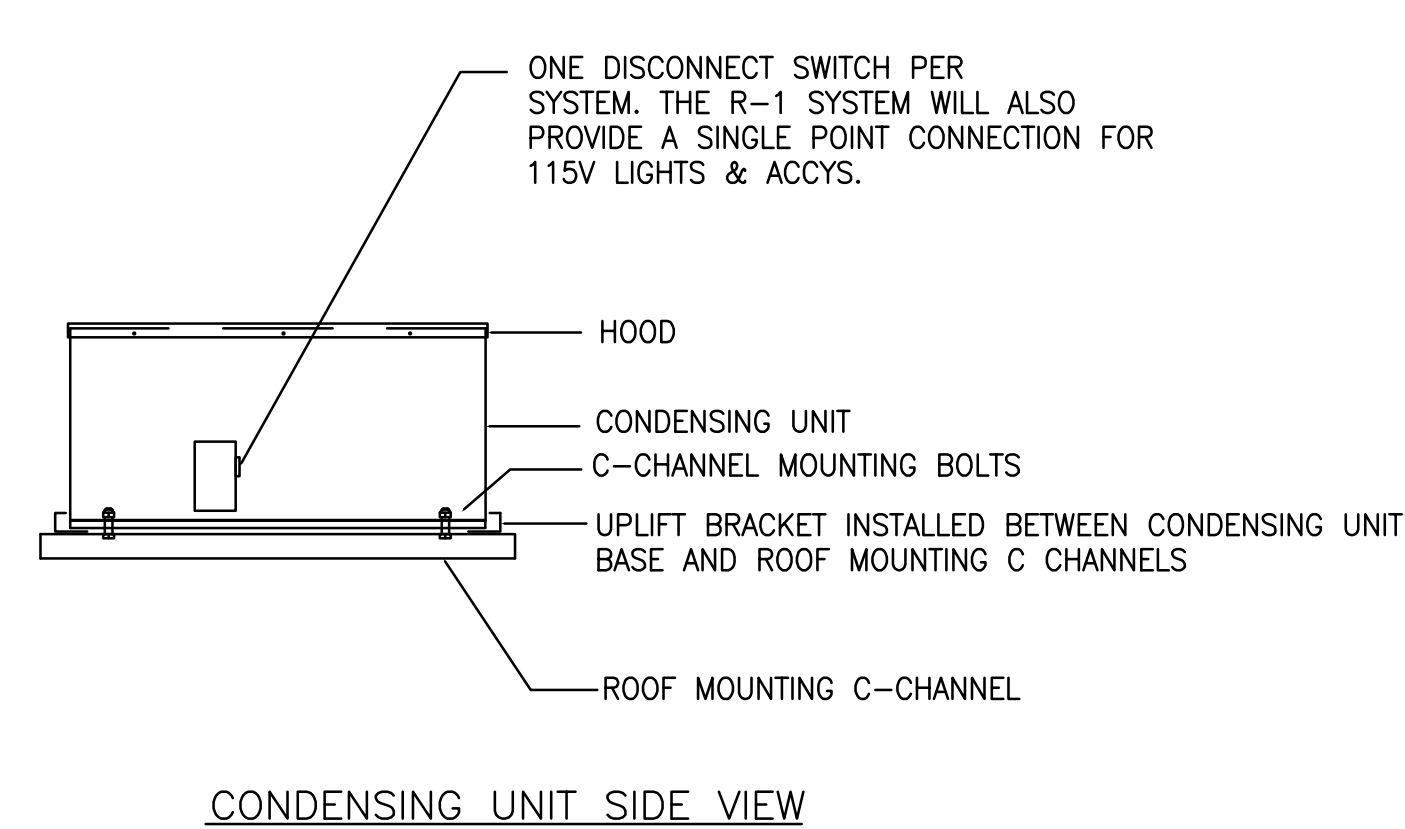


OUTDOOR FREEZER - PLAN

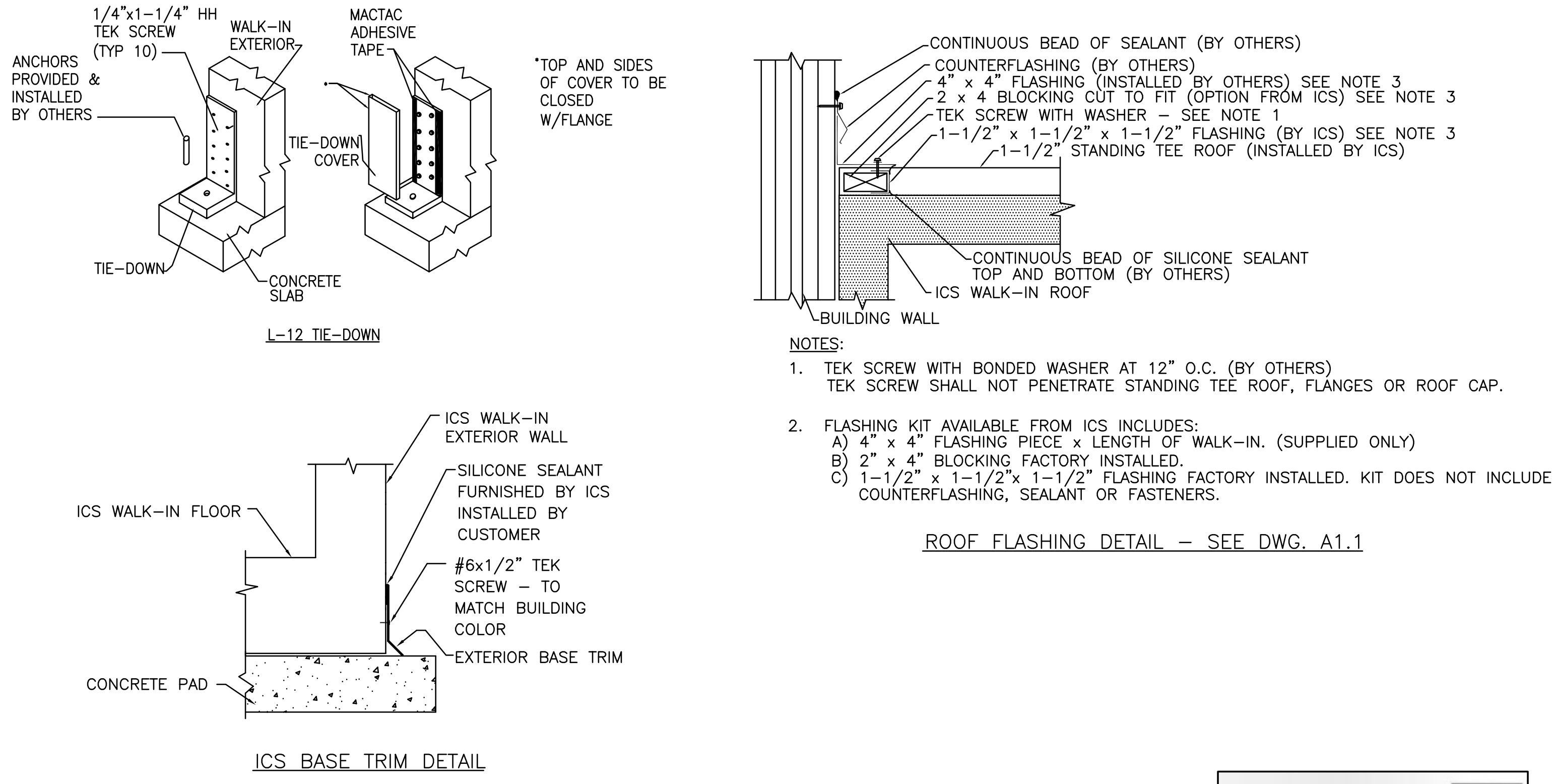
SCALE : NONE



ROOF FLASHING/CORNER TRIM ISOMETRIC DETAIL

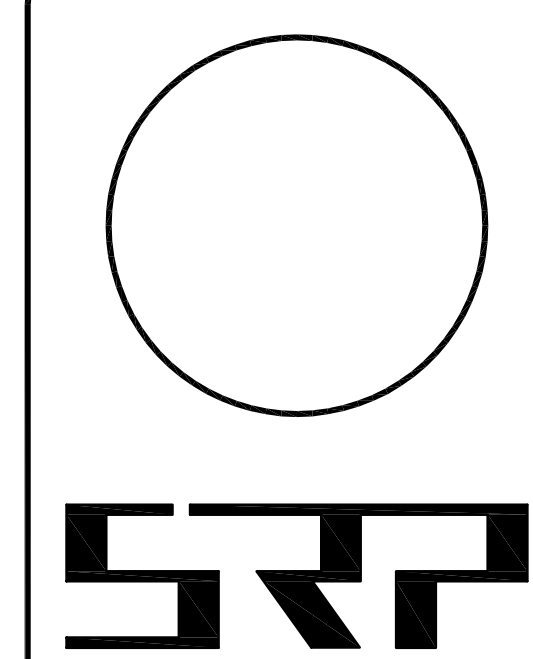


CONDENSING UNIT SIDE VIEW



OUTDOOR FREEZER - DETAILS

SCALE : NONE



SIMMONS, ROCKECHARLIE AND PRINCE, INC.

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JOB NAME:
WALTON MIDDLE SCHOOL

WALK-IN COOLER AND FREEZER

4217 RED HILL ROAD
CHARLOTTESVILLE, VIRGINIA 22903

DRAWING TITLE:
KITCHEN EQUIPMENT PLANS AND DETAILS

REVISIONS:

NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

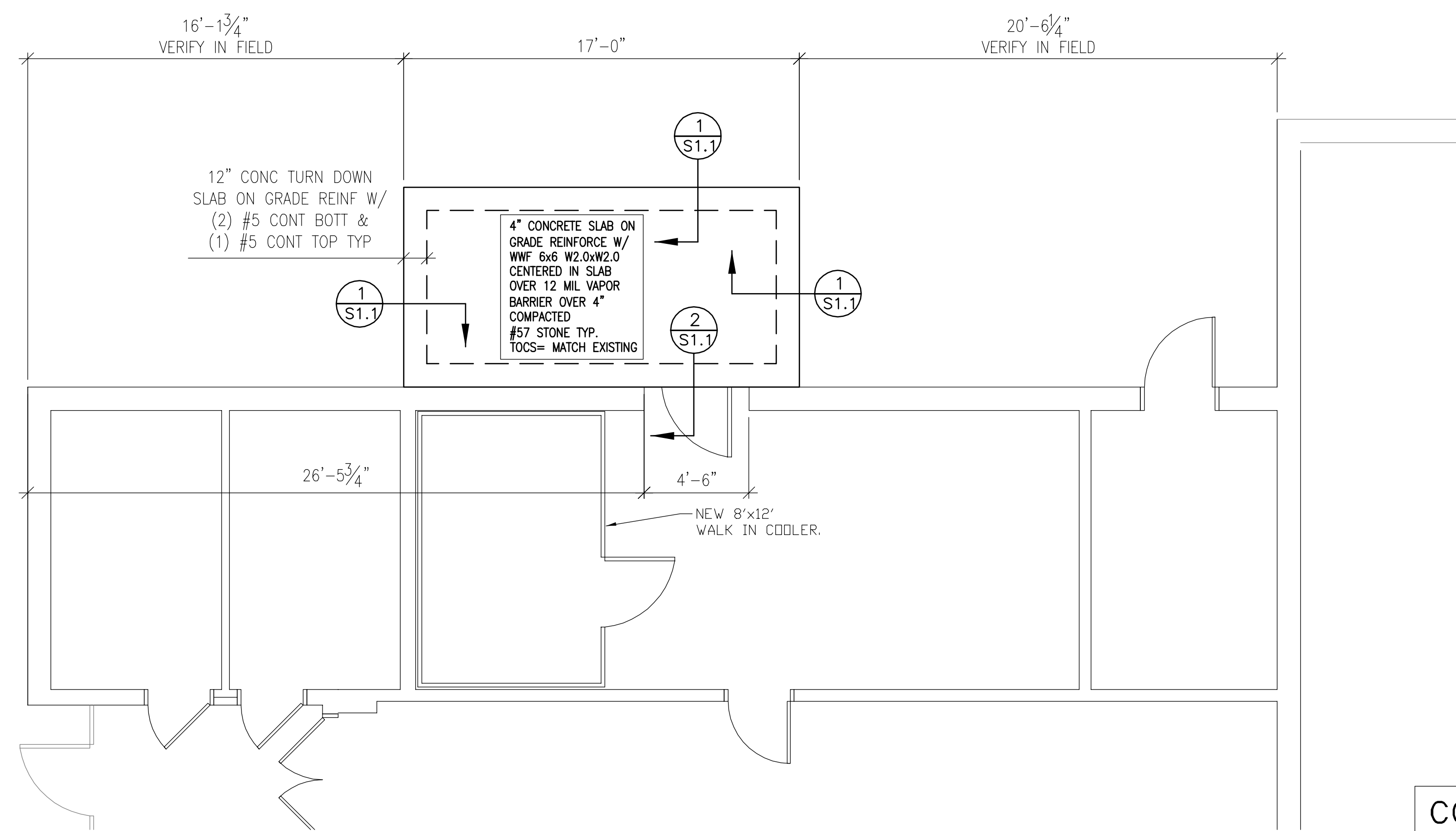
TAR III TAR III

COMM. NO. **DATE**

21004 03/01/21

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OF: 1

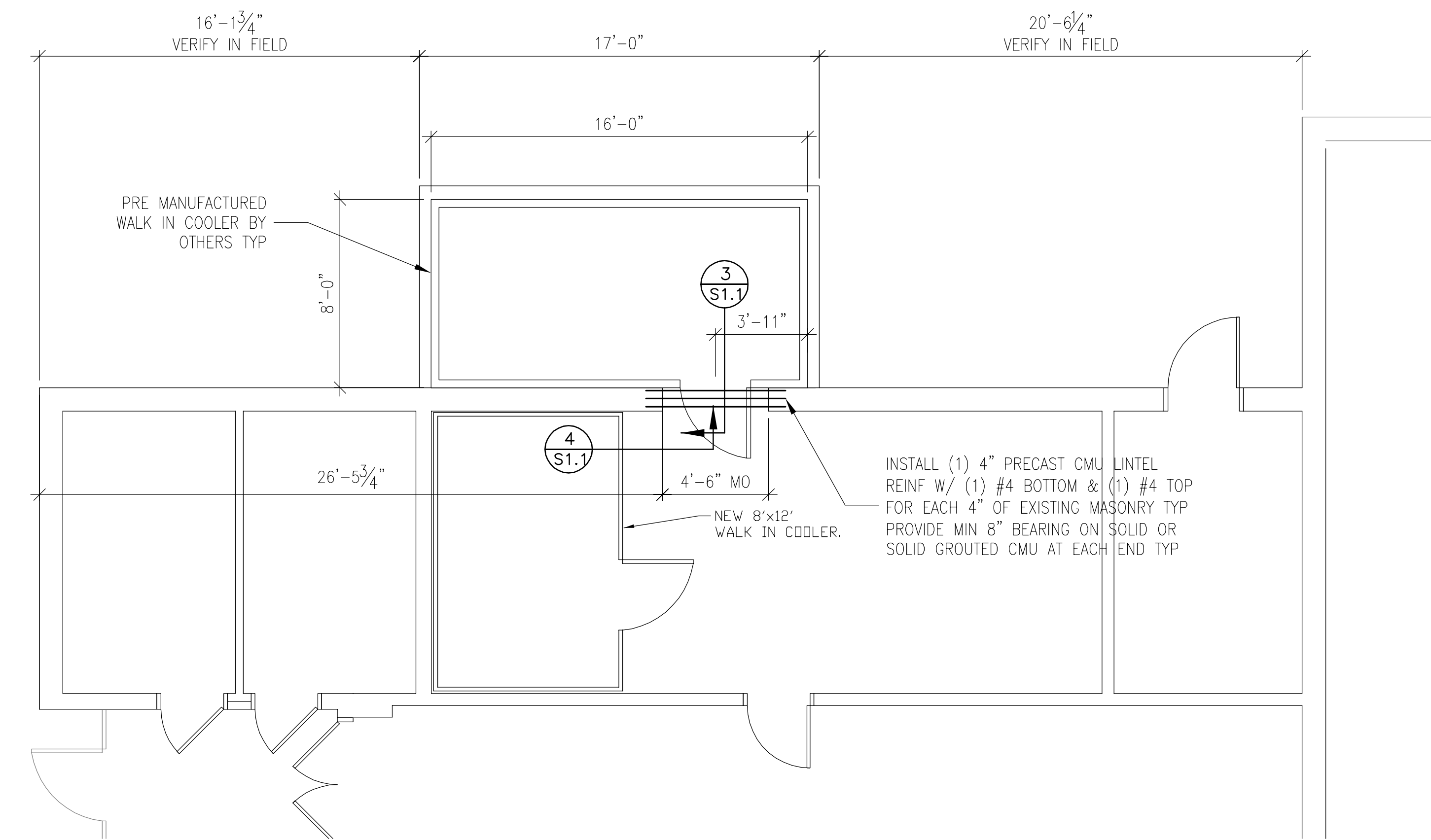




FOUNDATION PLAN

SCALE 1/4"=1'

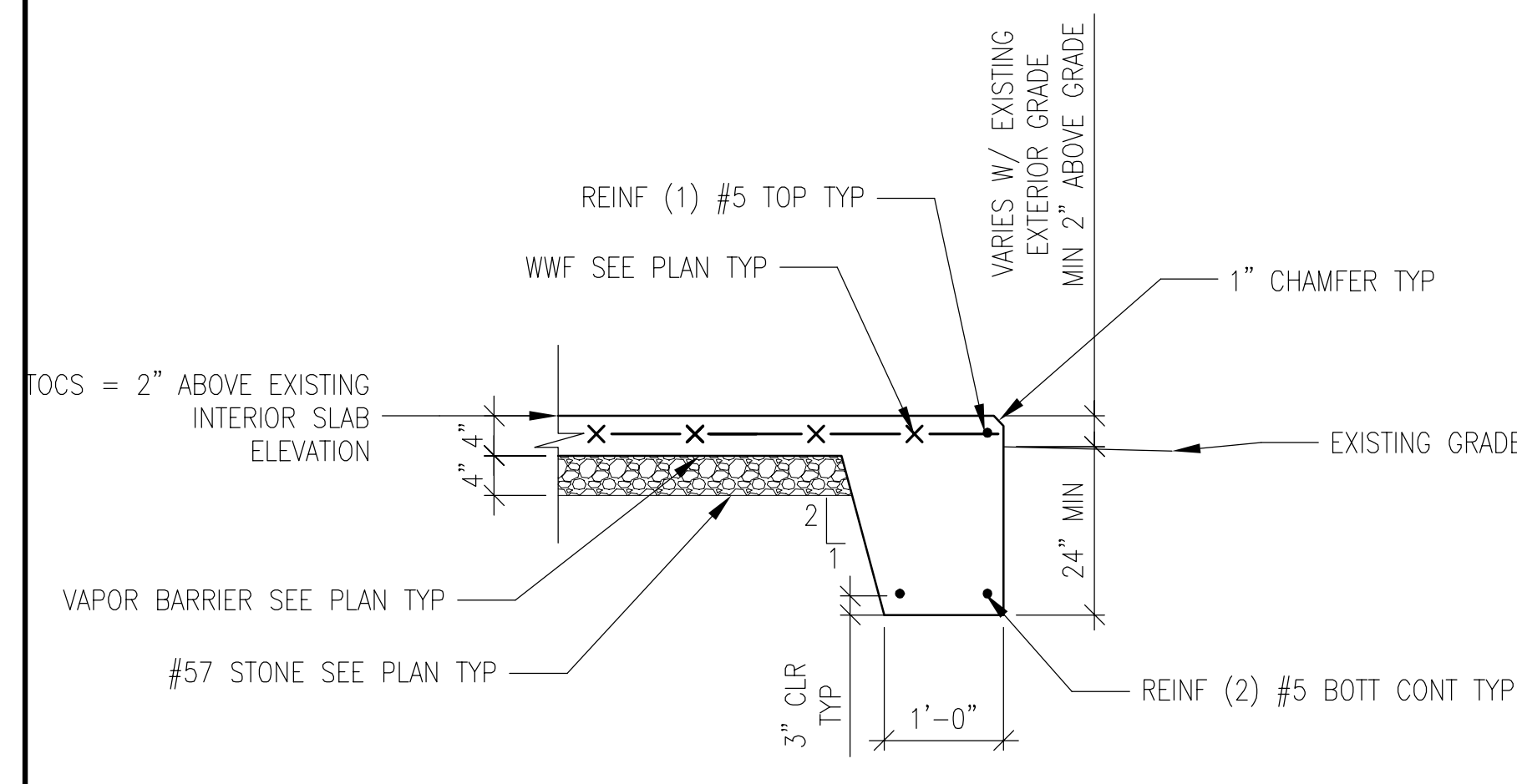
1. TOP OF CONCRETE SLAB = TOCS = 0.0 = MATCH TO EXISTING INTERIOR SLAB ELEVATION



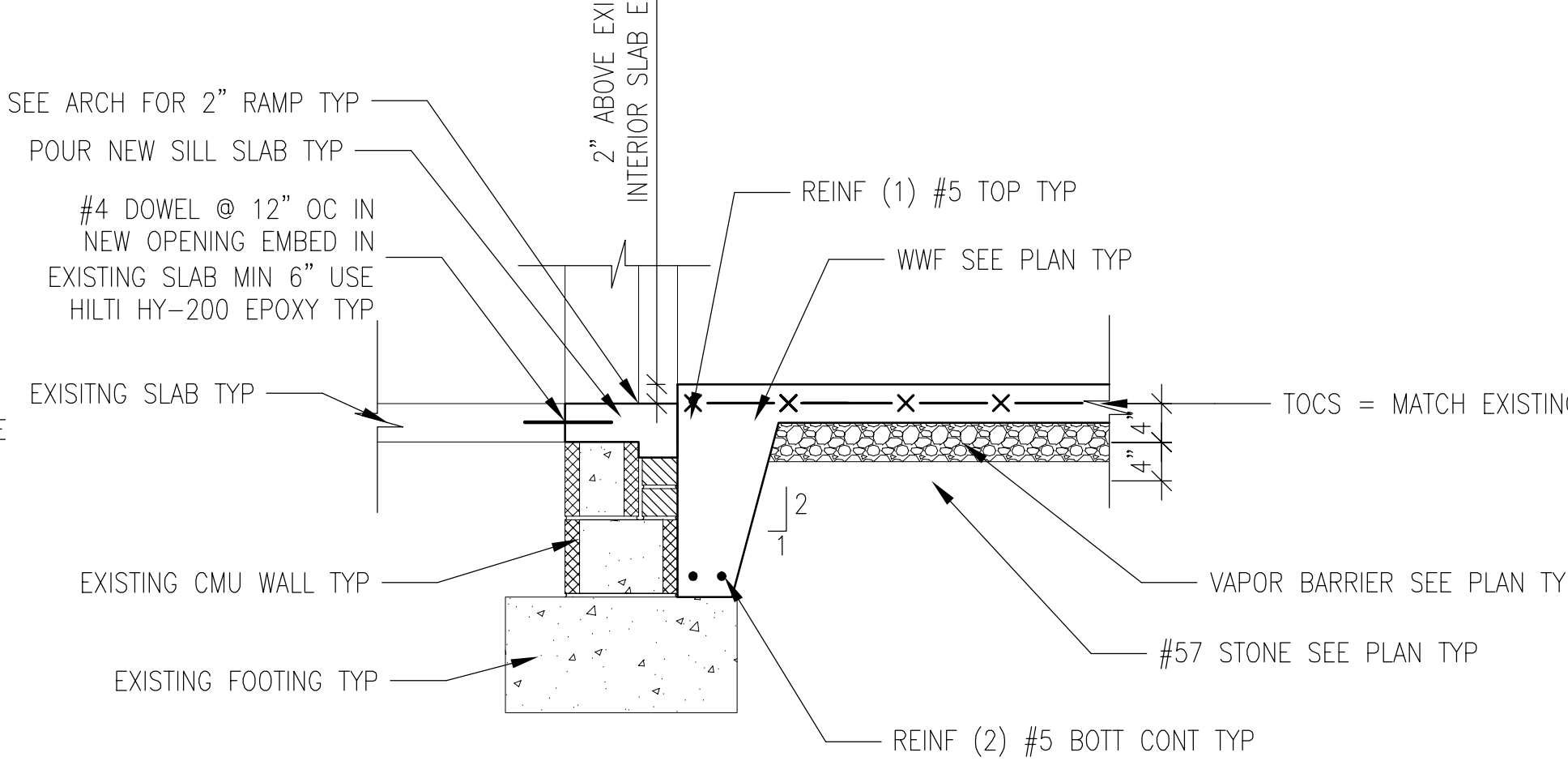
FRAMING PLAN

SCALE 1/4"=1'

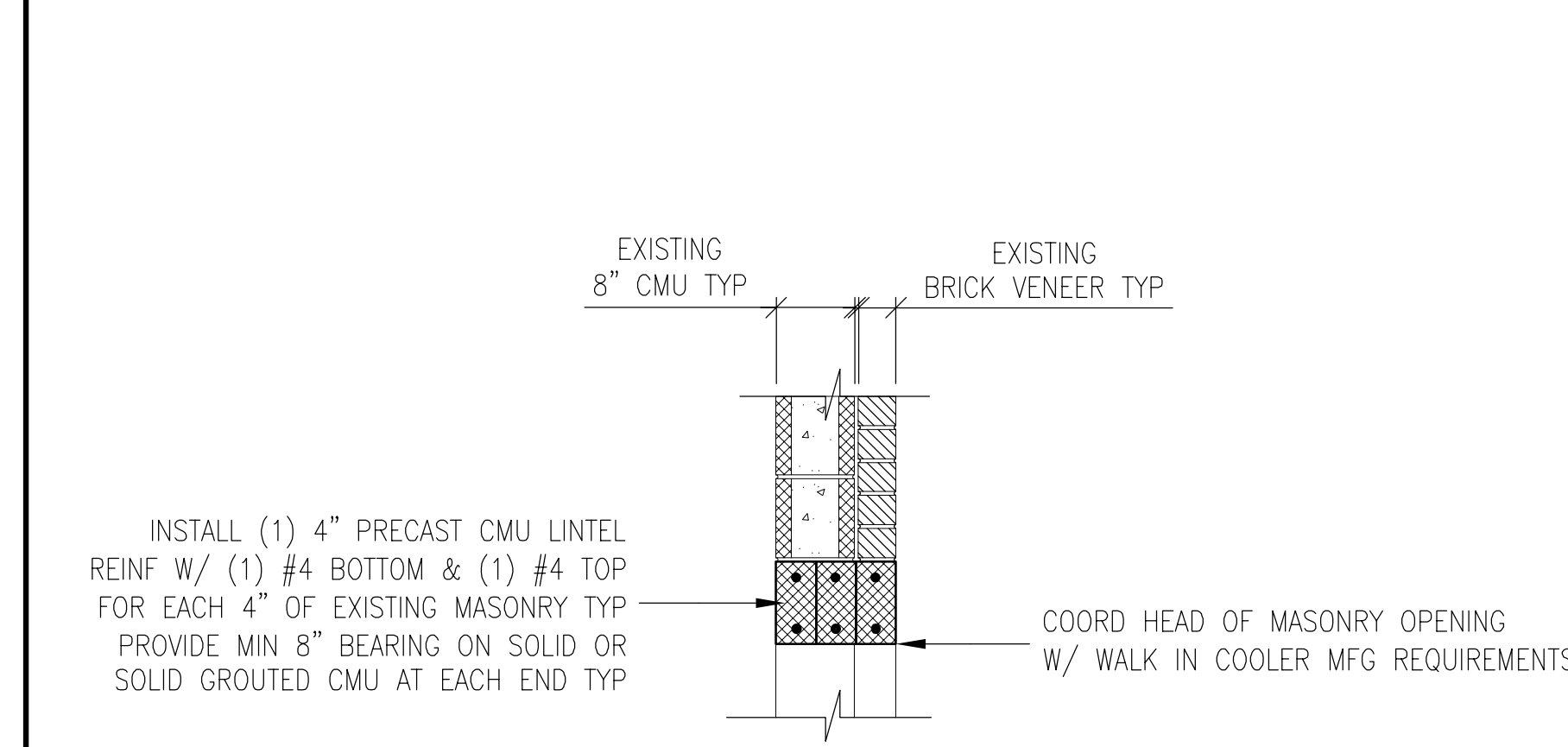
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION



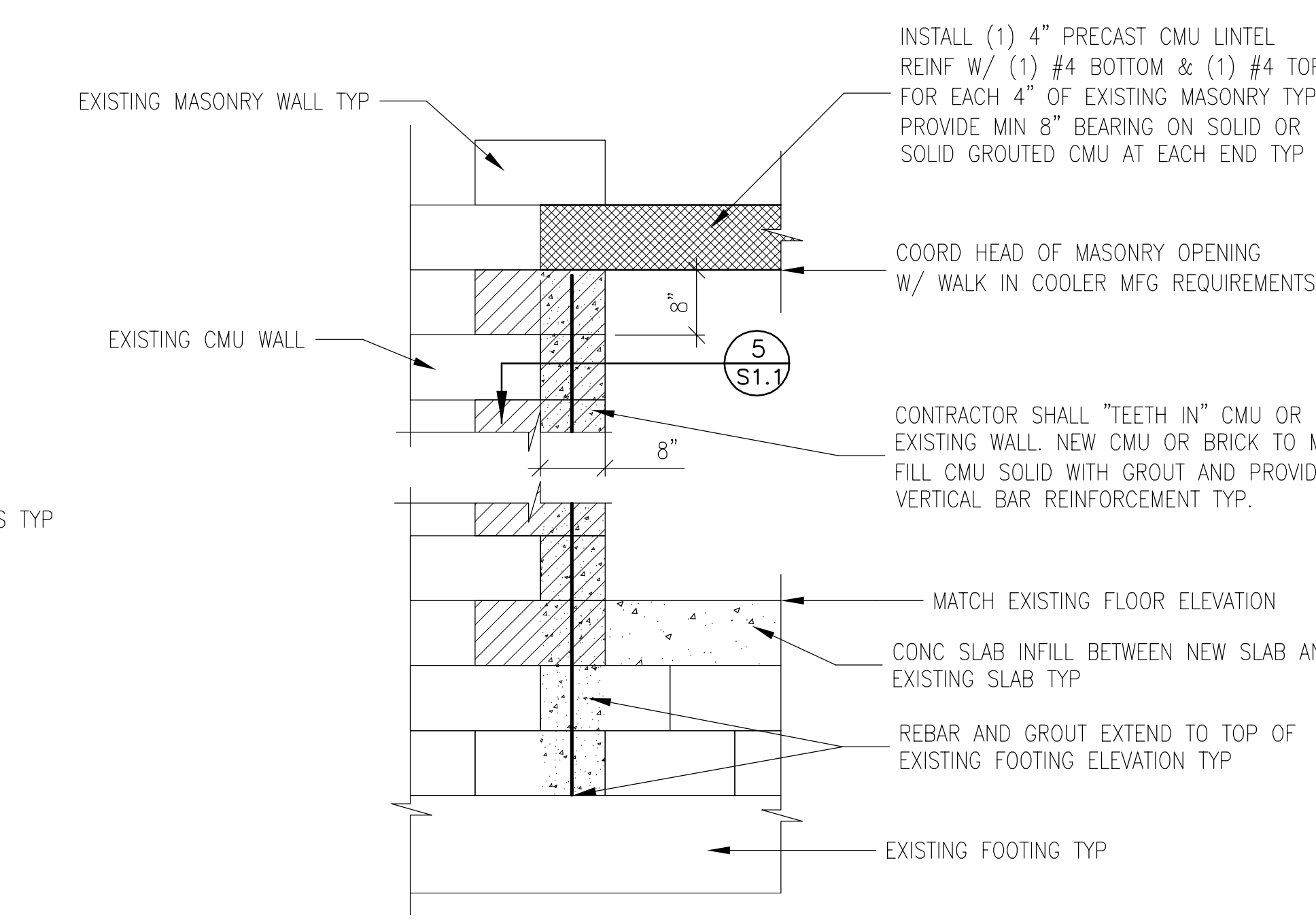
1 TYP CONCRETE TURN DOWN SLAB
SCALE 3/4"=1'



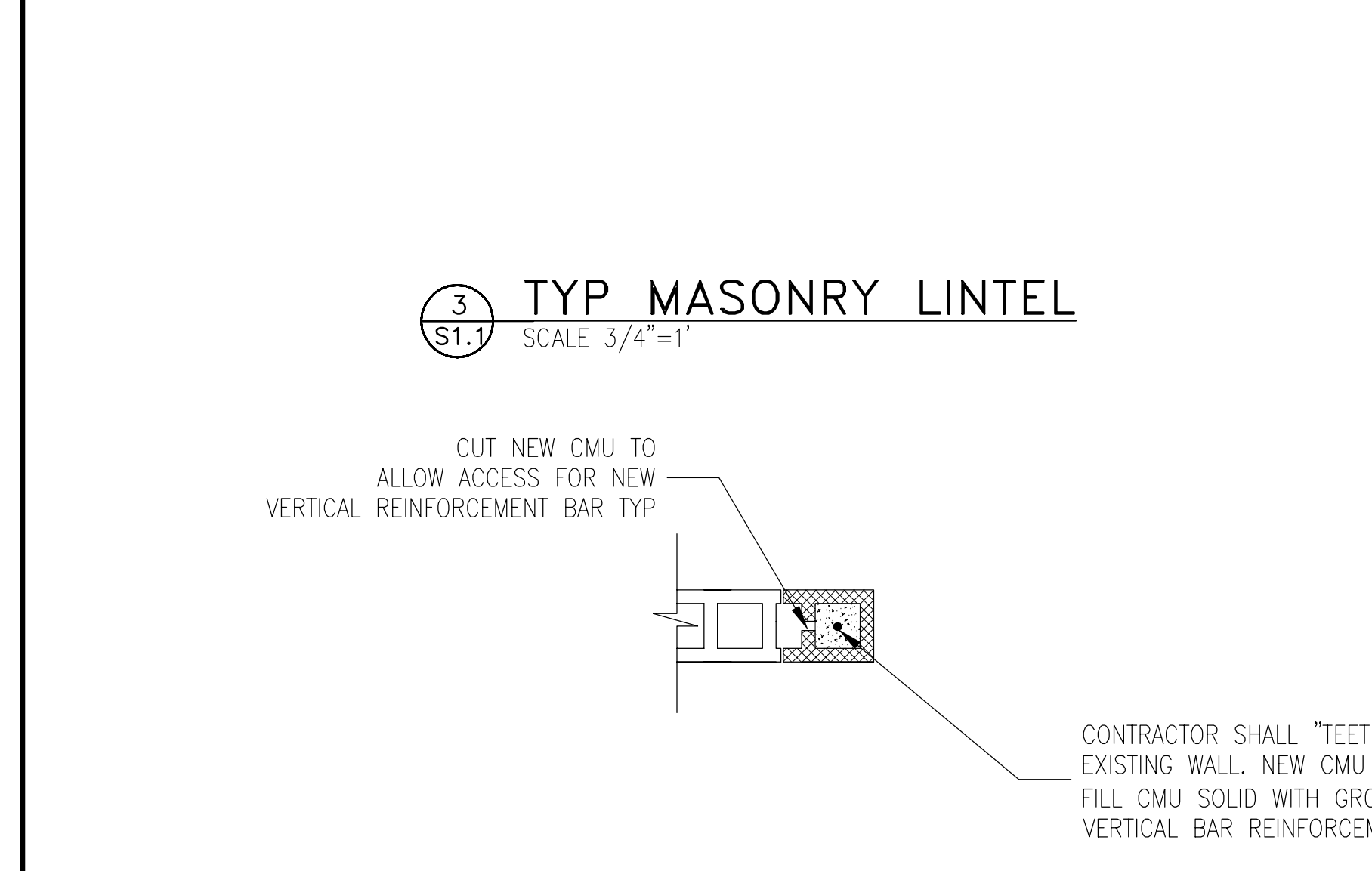
2 TYP CONCRETE TURN DOWN SLAB @ ENTRY
SCALE 3/4"=1'



3 TYP MASONRY LINTEL
SCALE 3/4"=1'



4 TYP MASONRY LINTEL BEARING
SCALE 3/4"=1'

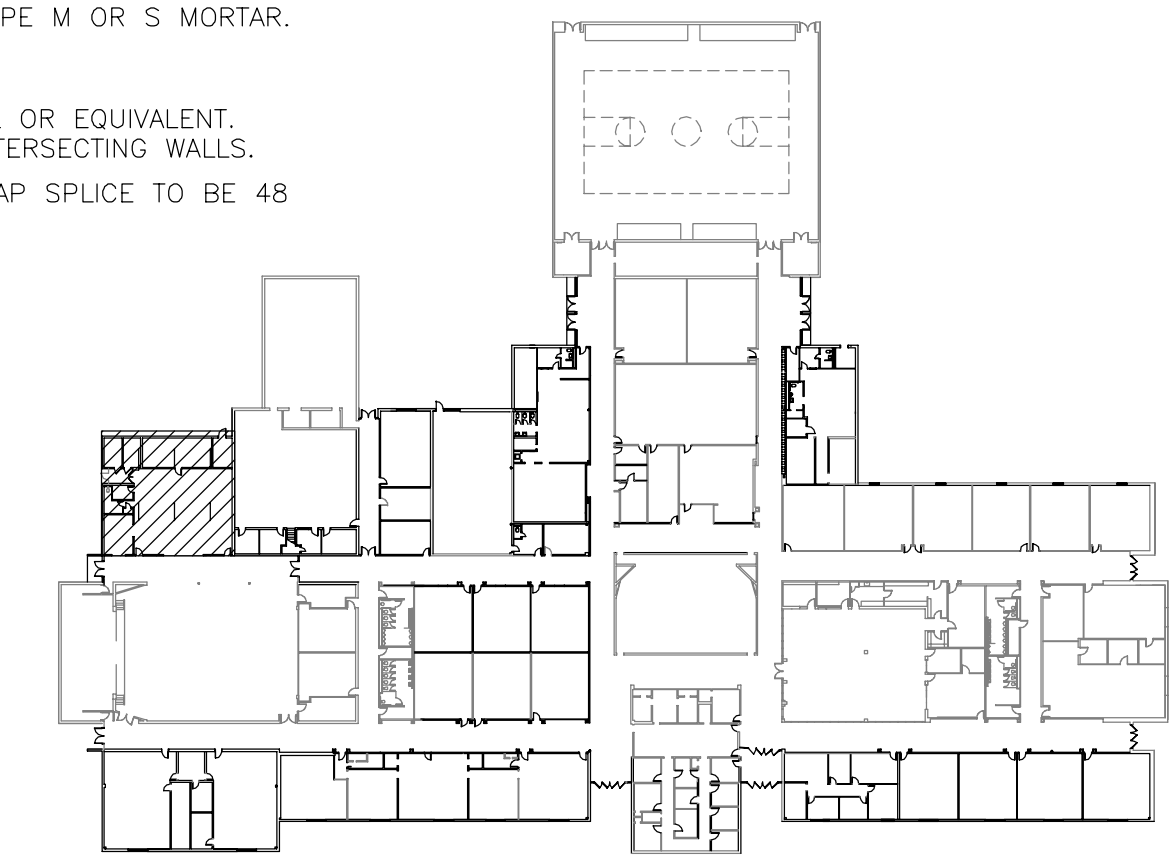


5 TYP WALL REINF DETAIL
SCALE 3/4"=1'

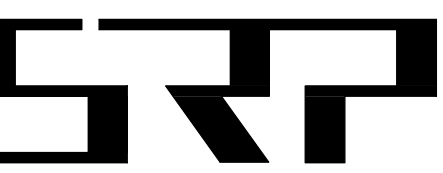
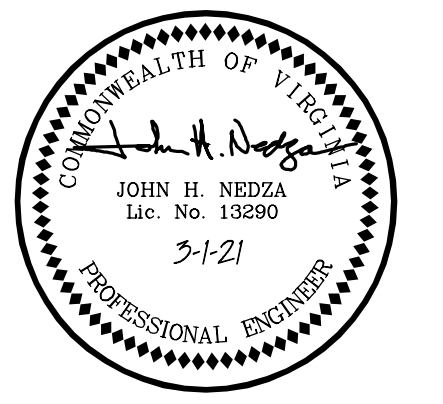
- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH VCC 2015 (INTERNATIONAL BUILDING CODE 2015).
 - THE STRUCTURE IS STABLE IN ITS COMPLETED CONFIGURATION. TEMPORARY BRACING TO ACHIEVE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR LOCATING AND PROTECTING FROM DAMAGE ANY UNDERGROUND UTILITIES (PUBLIC OR PRIVATE), THAT MAY EXIST AND CROSS THROUGH THE AREA OF CONSTRUCTION, EVEN IF NOT SHOWN ON THE DRAWINGS.
 - ANY DIMENSIONAL DISCREPANCY OR OMISSION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND RESOLVED BEFORE BEGINNING CONSTRUCTION. DUE TO VARIATIONS IN PRINTING, PRINTED COPIES SHALL NOT BE SCALED.
 - THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL DETERMINE THE SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE. THE STRUCTURAL DRAWINGS SHALL NOT BE CONSIDERED SEPARATELY FOR PURPOSES OF BIDDING THE STRUCTURAL WORK. DUE CONSIDERATION SHALL BE GIVEN TO OTHER STRUCTURAL WORK OR WORK RELATED TO THE STRUCTURE, INCLUDING NECESSARY COORDINATION DESCRIBED OR IMPLIED BY THE ARCHITECTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS.
 - DETAIL SHOWN FOR ONE CONDITION OR SECTION CUT SHALL APPLY TO LIKE OR SIMILAR CONDITION EVEN THOUGH NOT SPECIFICALLY NOTED ON DRAWINGS.
- GEOTECHNICAL**
- G-1 THE ASSUMED ALLOWABLE SOIL BEARING PRESSURE FOR DESIGN PURPOSES IS 1500 PSF. A SOIL EVALUATION & REPORT SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER LICENSED TO PRACTICE IN THE COMMONWEALTH OF VIRGINIA. THIS REPORT SHALL ADDRESS:
- ALLOWABLE SOIL BEARING PRESSURE
 - PRESENCE OF EXPANSIVE SOILS
 - PRESENCE OF FILL SOIL MATERIAL
 - ANY OTHER GEOTECHNICAL ISSUES AFFECTING STRUCTURAL INTEGRITY
- G-2 THE GEOTECHNICAL ENGINEER SHALL INSPECT ALL FOOTING EXCAVATIONS PRIOR TO POURING CONCRETE AND VERIFY THAT THE SOIL OBSERVED HAS BEARING PRESSURE CAPACITY OF AT LEAST 1500 PSF.
- G-3 THE TESTING ENGINEER SHALL DETERMINE THAT THE SITE IS PROPERLY PREPARED AND THAT ANY ENGINEERED FILL UNDER THE BUILDING IS COMPACTED TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH THE SPECIFICATIONS OF ASTM D-698, STANDARD PROCTOR METHOD.
- G-4 FOOTING ELEVATIONS GIVEN ON PLAN OR PER DETAILS ARE FINAL ELEVATIONS. IF FURTHER EXCAVATION IS REQUIRED TO REACH THE SPECIFIED BEARING CAPACITY, SELECT STRUCTURAL FILL PER THE GEOTECHNICAL REPORT SHALL BE INSTALLED TO RE-ESTABLISH FINAL FOOTING ELEVATIONS.

- CAST IN PLACE CONCRETE**
- C-1 FLOOR SLABS-4000 PSI, MAX. SLUMP 4"-8". EXTERIOR SLABS TO BE AIR-ENTRAINED. FOOTINGS & GRADE BEAMS - 3500 PSI, MAX. SLUMP 4"-8". WALLS - 4000 PSI, MAX. SLUMP 4"-8".
- C-2 CONCRETE WORK SHALL CONFORM TO THE CURRENTLY ADOPTED VERSIONS OF:
ACI 318 - STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
ACI 302 - RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
ASTM E1155 - STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND LEVELNESS USING THE "F" NUMBER" SYSTEM (INCH-POUND UNITS)
- C-3 CONCRETE SLAB/PAD ON GRADE SHALL BE LEVEL WITHIN 1/4" OVER 10'-0" IN ANY DIRECTION PER COOLER MFG DRAWINGS. CONCRETE SLAB/PAD ON GRADE SHALL BE FLAT, SMOOTH AND UNIFORM W/ MAXIMUM 1/4" TOTAL DEVIATION OVER 10'-0" STRAIGHT EDGE IN ANY DIRECTION PER COOLER MFG DRAWINGS.
- C-4 CONTRACTOR SHALL PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED. MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS SPECIFIED IN ACI 301.
- C-5 ALL REINFORCING BARS SHALL BE ASTM A615, GRADE 60. DETAILING TO CONFORM TO ACI 315. MINIMUM LAP SPLICE TO BE 48 BAR DIAMETERS.
- C-6 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO BEGINNING FABRICATION. SHOP DRAWINGS SHALL SHOW ALL INFORMATION REQUIRED FOR FINAL FABRICATION AS WELL AS PROPOSED SEQUENCE OF WORK. WHERE FIELD VERIFICATION OF DIMENSIONS AND/OR CONDITIONS ARE REQUIRED THEY SHALL BE CLEARLY SHOWN ON APPLICABLE SHOP DRAWINGS. SHOP DRAWINGS NOT MEETING THESE REQUIREMENTS WILL BE RETURNED WITHOUT REVIEW.
- C-7 MAKE ONE SET OF (4) 6"x12" LONG TEST CYLINDERS EACH DAY MINIMUM & FOR EACH 50 CUBIC YARDS OF CONCRETE POURED IN ACCORDANCE WITH ASTM C192. BREAK (1) AT 7 DAYS (2) AT 28 DAYS AND (1) SPARE IN ACCORDANCE WITH ASTM C39.

- MASONRY**
- MAS-1 ALL MASONRY UNIT CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90, TYPE 1 WITH TYPE M OR S MORTAR.
- MAS-2 ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1/ASCE6/TMC602.
- MAS-3 MASONRY WALL CONSTRUCTION SHALL BE HORIZONTALLY REINFORCED AT 16-INCH CENTERS WITH DUROWALL OR EQUIVALENT. REINFORCEMENT SHALL OVERLAP INTO INTERSECTING WALLS. RUNNING BOND SHALL ALSO CONTINUE INTO INTERSECTING WALLS.
- MAS-4 ALL REINFORCING BARS SHALL BE ASTM A615, GRADE 60. DETAILING TO CONFORM TO ACI 315. MINIMUM LAP SPLICE TO BE 48 BAR DIAMETERS.



KEY PLAN
SCALE : NONE



SIMMONS, ROCKECHARLIE AND PRINCE, INC.

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JOB NAME:
WALTON MIDDLE SCHOOL

WALK-IN COOLER AND FREEZER

4217 RED HILL ROAD CHARLOTTEVILLE, VIRGINIA 22903

DRAWING TITLE:

STRUCTURAL PLANS & DETAILS

LOUISA ENGINEERING, INC.
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Martinsville, Virginia 26105
Phone: 703-948-9999
Email: jordan@loisainc.com

REVISIONS:

NO.	DATE	DESCRIPTION

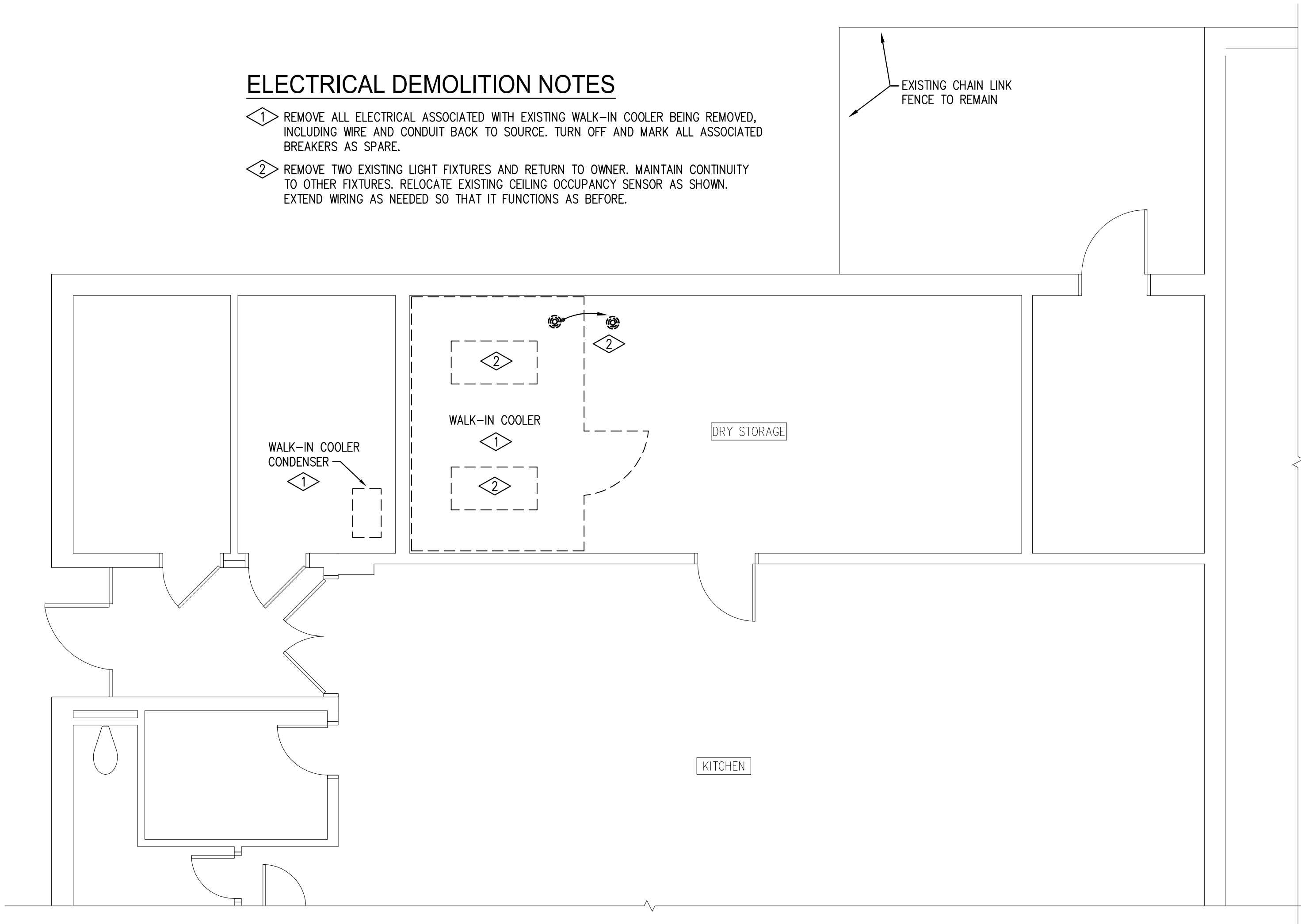
DRAWN BY: JDL **CHECKED BY:** JHN

COMM. NO.: 21004 **DATE:** 3/1/21

SHEET NO.:
S1.1
OF: 1

ELECTRICAL DEMOLITION NOTES

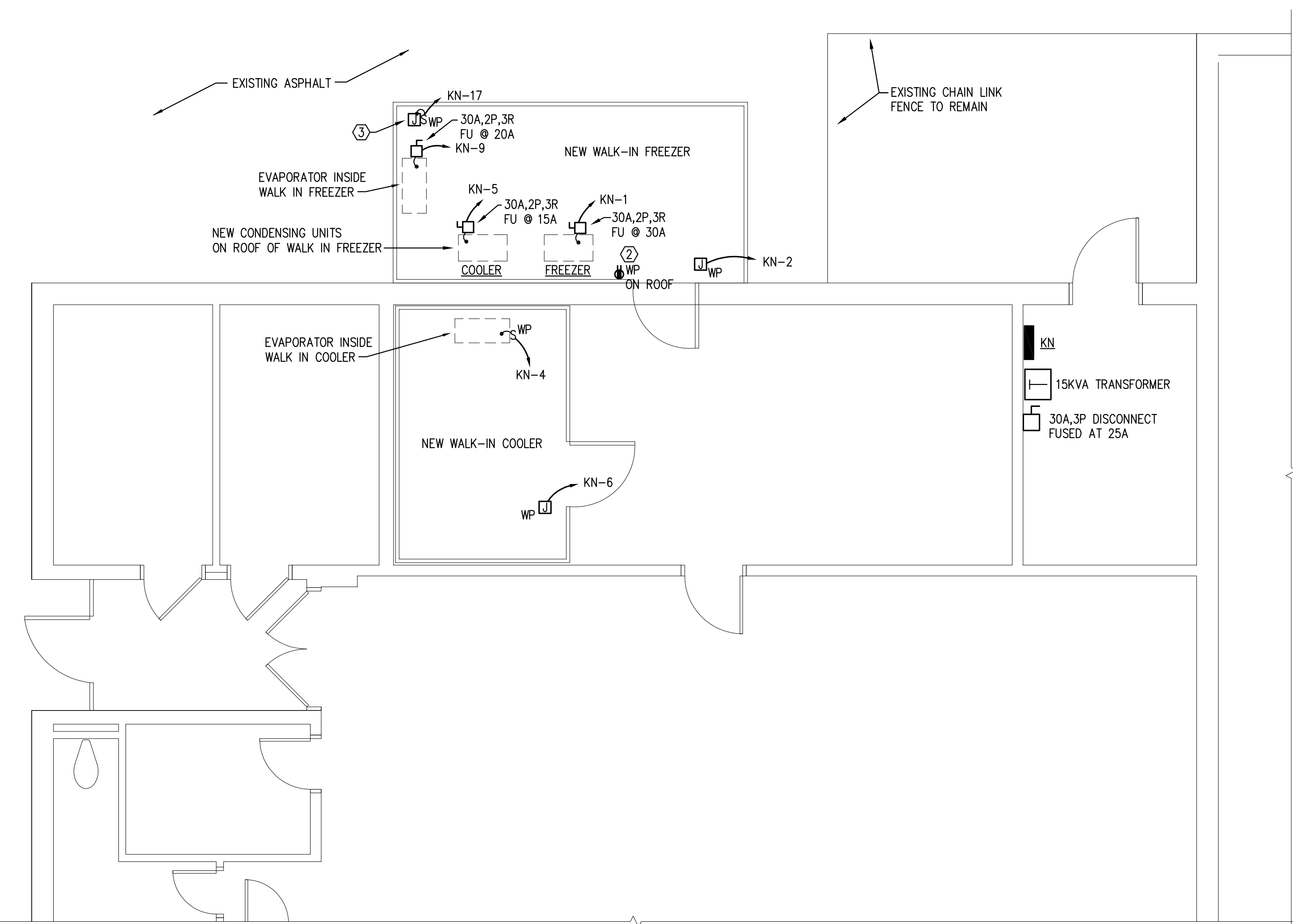
- ① REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING WALK-IN COOLER BEING REMOVED, INCLUDING WIRE AND CONDUIT BACK TO SOURCE. TURN OFF AND MARK ALL ASSOCIATED BREAKERS AS SPARE.
- ② REMOVE TWO EXISTING LIGHT FIXTURES AND RETURN TO OWNER. MAINTAIN CONTINUITY TO OTHER FIXTURES. RELOCATE EXISTING CEILING OCCUPANCY SENSOR AS SHOWN. EXTEND WIRING AS NEEDED SO THAT IT FUNCTIONS AS BEFORE.



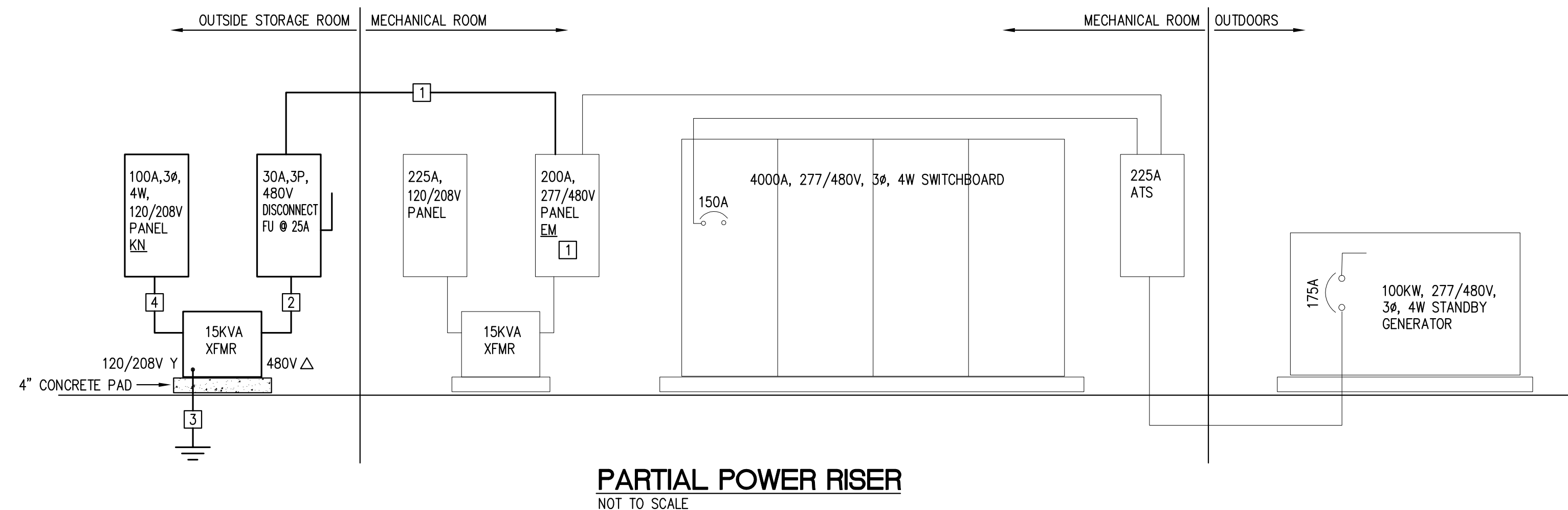
KITCHEN FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE : 1/4" = 1'-0"

ELECTRICAL NEW WORK NOTES

- ① PROVIDE DISCONNECT SWITCHES AND CONNECT TO CIRCUIT NUMBERS SHOWN.
- ② CONNECT NEW RECEPTACLE TO NEAREST RECEPTACLE CIRCUIT. VERIFY LOAD.
- ③ FOR HEAT TRACE, CONNECT FACTORY INSTALLED AND CONTRACTOR INSTALLED HEAT TRACE TO THIS CIRCUIT. COORDINATE LOCATION W/EQUIPMENT INSTALLER.



KITCHEN FLOOR PLAN - ELECTRICAL NEW WORK
SCALE : 1/4" = 1'-0"



PARTIAL POWER RISER
NOT TO SCALE

POWER RISER NOTES

- ① 30A, 3P, NO NEUTRAL - (3) #10, (1) #10 G, 3/4" C. CONNECT TO EXISTING 30A/3P SPARE BREAKER IN EXISTING PANEL "EM". APPROXIMATE LENGTH OF RUN IS 120'.
- ② 30A, 3P, NO NEUTRAL - (3) #10, (1) #10 G, 3/4" C.
- ③ (1) #8 G TO STRUCTURAL STEEL.
- ④ 50A, 3Ø, 4W - (4) #8, (1) #8 G, 3/4" C.

LEGEND

SYMBOL	DESCRIPTION
—	120/208V PANELBOARD
—	277/480V PANELBOARD
⊠	HEAVY-DUTY DISCONNECT SWITCH, FUSED AT BREAKER SIZE, U.O.N., OR UNLESS REQUIRED BY MANUFACTURER OR CODE. ALL DISC SW'S EXPOSED TO WATER OR LOCATED OUTSIDE SHALL BE NEMA TYPE 3R UNLESS OTHERWISE NOTED.
⊠ WP	4x4 WEATHER PROOF JUNCTION BOX
◊	DEMOLITION NOTE
①	PLAN NOTE
②	RISER NOTE
③	SCHEDULE NOTE
U.O.N.	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR
TYP.	TYPICAL
WP	WEATHER PROOF
EC	EMPTY CONDUIT WITH NYLON FULL STRING AND CONDUIT BUSHING.
ETR	EXISTING TO REMAIN
ER	EXISTING RELOCATED

ALL SHOWN LIGHT IS EXISTING TO REMAIN
ALL SHOWN DASHED IS TO BE REMOVED
ALL SHOWN DARK IS NEW WORK

GENERAL DEMOLITION NOTES

- A. THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE ELECTRICAL SYSTEMS TO DETERMINE THE EXTENT OF THE DEMOLITION WORK REQUIRED AND INCLUDE PRICE FOR SAME IN BID. ELECTRICAL DEMOLITION WORK SHALL BE COORDINATED WITH OWNER. CONTRACTOR SHALL DE-ENERGIZE ALL CIRCUITS ASSOCIATED WITH EQUIPMENT BEING REMOVED BEFORE STARTING DEMOLITION. LOCK OUT AND TAG OUT ALL DE-ENERGIZED CIRCUITS TO PREVENT FROM ACCIDENTAL RE-ENERGIZATION. ALL FIXTURES, DEVICES AND EQUIPMENT SHOWN DASHED AND ASSOCIATED WIRING SHALL BE REMOVED.
 1. REMOVE ALL UNUSED CONDUIT AND WIRE BACK TO SOURCE, UNLESS OTHERWISE NOTED.
 2. CUT CONDUIT FLUSH WITH FLOOR AND SEAL FLUSH WITH FLOOR WHERE CONDUIT IS STUBBED UP ABOVE FLOOR. ABANDON THE REST OF THE CONDUIT RUN IN PLACE. REMOVE ALL WIRE BACK TO SOURCE.
 3. REMOVE ALL SURFACE RACEWAY, PLUGMOLD AND WIRE BACK TO SOURCE.
 4. CONTRACTOR MAY REUSE ABANDONED CONDUIT AS HIS OPTION IF CONDUIT IS THE PROPER SIZE PER THE NEC.
 5. PROVIDE BLANK COVER PLATES TO MATCH EXISTING FOR UNUSED BOXES. PROVIDE BLANK COVERS FOR ALL UNUSED KNOCKOUTS IN THE JUNCTION BOXES.
- B. MAINTAIN ALL CIRCUITS TO ROOMS ADJACENT TO THE REMODELED AREA. REWIRE ALL CIRCUITS THAT PASS THROUGH OR FEED THE REMODELED AREAS AS WELL OTHER AREAS SUCH THAT THE CONTINUITY OF THE CIRCUITS ARE MAINTAINED.
- C. MAINTAIN ALL PRESENT EMERGENCY LIGHT CIRCUITING, WHERE FIXTURE IS CONNECTED IN NEW LOCATION EXTEND CONDUIT AND WIRING AS REQUIRED.
- D. ALL ELECTRICAL ITEMS DESIGNATED "ETR"(EXISTING TO REMAIN) SHALL REMAIN DURING DEMOLITION AND SHALL BE PROTECTED FROM DAMAGE.
- E. ALL ELECTRICAL ITEMS DESIGNATED "ER"(EXISTING RELOCATED) SHALL BE RELOCATED TO NEW LOCATION SHOWN MATCH AND EXTEND WIRE TO EXISTING SYSTEM/CIRCUITS. PROVIDE NEW DEVICE IF EXISTING NOT WORKING.
- F. PROVIDE NEW PANEL DIRECTORIES FOR ALL PANELS ASSOCIATED WITH THIS WORK. SHOW ROOM NUMBERS AS ASSIGNED BY OWNER TO ROOMS AND NOT ARCHITECTURAL DRAWING ROOM NUMBERS. TRACE OUT ALL CIRCUITS ASSOCIATED WITH THE PANELS AND MARK THE NEW DIRECTORIES CORRECTLY AND WITH THE NEW ROOM NUMBERS.

EXISTING PANELBOARD "EM" SCHEDULE
200A, 277/480V, 3Ø, 4W, SN, GND BUS, SURFACE MOUNTED
MAIN LUGS ONLY

LOAD SERVED	LOAD			WIRE SIZE	BKR TRIP	POLE	PHASE			OCT NO	BKR TRIP	WIRE SIZE	LOAD			LOAD SERVED		
	A	B	C				A	B	C				A	B	C			
SPARE	X			X	20	1	1	1	2	1	20	EX	2.50			LTS-CORRIDORS OFFICE		
SPARE	X			X	20	1	3	1	4	1	20	EX	2.50			LTS-CORRIDORS HALLWAY		
SPARE		X		X	20	1	5	1	6	1	20	EX	2.50			LTS-CYM		
SPARE		X		X	20	3	9	1	8	1	20	EX	2.50			LTS-CYM		
SPARE		X		X	20	3	15	1	10	1	20	EX	2.50			EM. LTS "A"		
SPARE		X		X	20	3	15	1	12	1	20	EX	2.50			EM. LTS "B"		
SPARE		X		X	20	3	15	1	14	1	20	EX	2.50			EM. LTS "C"		
SPARE		X		X	20	3	15	1	16	1	20	X				SPARE		
SPARE		X		X	20	3	15	1	17	1	20	X				5.00	NEW PANEL "KN" VIA NEW 15KVA TRANSFORMER IN OUTSIDE STORAGE ROOM	
SPARE		X		X	20	3	21	1	19	1	20	X					5.00	
SPARE		X		X	20	3	23	1	20	1	20	EX						
SPARE		X		X	30	3	25	1	22	1	20	X						
SPARE		X		X	30	3	27	1	23	1	20	X						
SPARE		X		X	30	3	29	1	24	1	20	X						
SPARE		X		X	30	3	31	1	25	1	20	EX	5.00					EX. 15KVA TRANSFORMER
SPARE		X		X	30	3	33	1	26	1	20	X						
SPARE		X		X	30	3	35	1	27	1	20	X						
SPARE		X		X	20	1	37	1	28	1	20	X	3.84					
SPARE		X		X	20	1	39	1	29	1	20	EX	3.84					PUMP HOUSE
SPARE		X		X	20	1	41	1	30	1	20	X	3.84					

NOTES: ① ESTIMATED LOADS - MAJORITY OF THE LIGHTS IN THE SCHOOL HAVE BEEN REPLACED WITH LED.
② LOAD TAKEN AT 80% OF BREAKER SIZE.

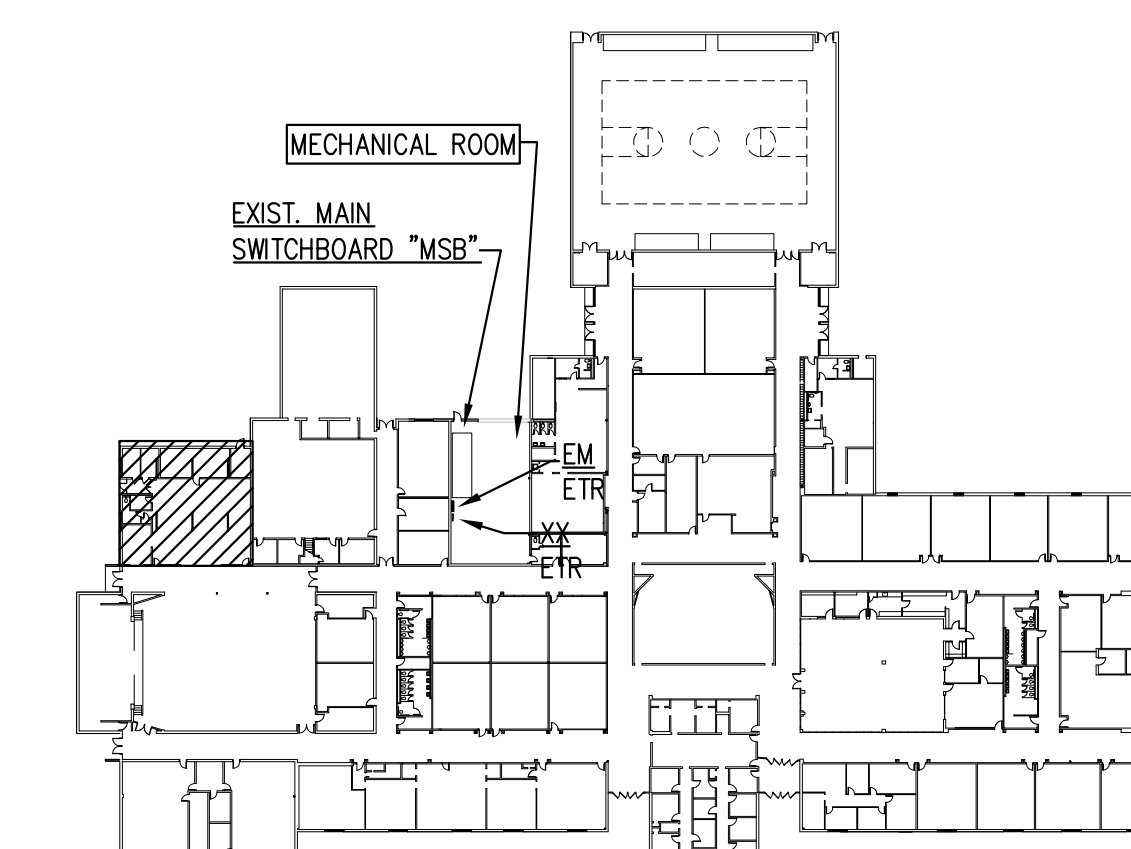
TOTAL LOAD IN KVA 59.02
EXISTING GENERATOR IS RATED FOR 100KW

NEW PANELBOARD "KN" SCHEDULE
100A, 120/208V, 3Ø, 4W, SN, GND BUS, SURFACE MOUNTED
50A MAIN CIRCUIT BREAKER, 22K AIC FULLY RATED

LOAD SERVED	LOAD			WIRE SIZE	BKR TRIP	POLE	PHASE			OCT NO	BKR TRIP	WIRE SIZE	LOAD			LOAD SERVED
	A	B	C				A	B	C				A	B	C	
WALKIN FREEZER CONDENSER 3HP, MCA=20A	1.92			10	30	2	1	1	2	1	20	12	1.00			WALKIN FREEZER LIGHTS & HTR
WALKIN COOLER CONDENSER 1HP, 4.6 FLA	0.60			12	15	2	5	1	3	1	20	12	1.00			WALKIN COOLER EVAPORATOR 1.6A
WALKIN FREEZER EVAPORATOR FANS (1A) & HTR (2250W)	1.20			12	20	2	7	1	6	1	20	X	X			SPARE
WALKIN COOLER EVAPORATOR	0.50			12	20	2	9	1	8	1	20	X	X			SPARE
HEAT TRACE ①	0.50			12	20	2	11	1	10	1	20	X	X			SPARE
				12	20	2	13	1	12	1	20	X	X			SPARE
				12	20	1	15	1	14	1	20	X	X			SPARE
				12	20	1	17	1	16	1	20	X	X			SPARE

NOTES: ① PROVIDE GFEP BREAKER

TOTAL LOAD IN KVA 4.02
② 3.82
③ 3.00



KEY PLAN
SCALE : NONE



SRP
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JOB NAME:

WALTON MIDDLE SCHOOL

WALK-IN COOLER AND FREEZER

4217 RED HILL ROAD
CHARLOTTESVILLE, VIRGINIA 22903

DRAWING TITLE:

KITCHEN FLOOR PLAN DEMOLITION AND NEW WORK ELECTRICAL

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: RRCM
CHECKED BY: DN

COMM. NO. 21004
DATE 03/01/21

SHEET NO. E1.1 OF 2