

# OAKDALE ELEMENTARY FREEZER COOLER

1900 CREEK ROAD

COTTONWOOD HEIGHTS, UTAH

## PROJECT CONTACTS

### OWNER

CANYONS SCHOOL DISTRICT  
9361 SOUTH 300 EAST  
SANDY, UTAH 84070  
(801) 826-5000

### ARCHITECTURAL

KMA ARCHITECTS, INC.  
170 NORTH MAIN STREET  
SPANISH FORK, UTAH 84660  
(801) 377-5062

### MECHANICAL

OLSEN & PETERSON ENGINEERING  
14 EAST 2700 SOUTH  
SALT LAKE CITY, UTAH 84115  
(801) 486-4646

### ELECTRICAL

BNA CONSULTING  
4225 LAKE PARK BLVD. SUITE 275  
WEST VALLEY, UTAH 84120  
(801) 532-2196

## GRAPHIC SYMBOLS

	ENGINEERED FILL		PLYWOOD		WALLTYPE TAG		DETAIL TAG
	EARTH		HARDWOOD		DOOR NUMBER		ELEVATION MARK
	CONCRETE		RIGID INSULATION		WINDOW TYPE		SECTION MARK
	ASPHALT		BATT INSULATION		CEILING HEIGHT		FIELD VERIFY (DIMENSIONS MAY DIFFER - CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH ARCHITECT)
	BRICK VENEER		BLOCKING		SHEET NOTE		
	STONE VENEER		GYPSUM BOARD		BUILDING ELEVATION MARK		
	WOOD STUDS		PROPERTY LINE		ROOM NUMBER		

## PROJECT DATA

INTERNATIONAL BUILDING CODE - 2021  
TYPE OF CONSTRUCTION - II-B  
BUILDING OCCUPANCY - E

## INDEX OF DRAWINGS

### ARCHITECTURAL

A1.1 - MAIN FLOOR PLAN

### MECHANICAL

M0.1 - MECHANICAL SPECIFICATIONS  
M1.1 - MECHANICAL PLAN

### ELECTRICAL

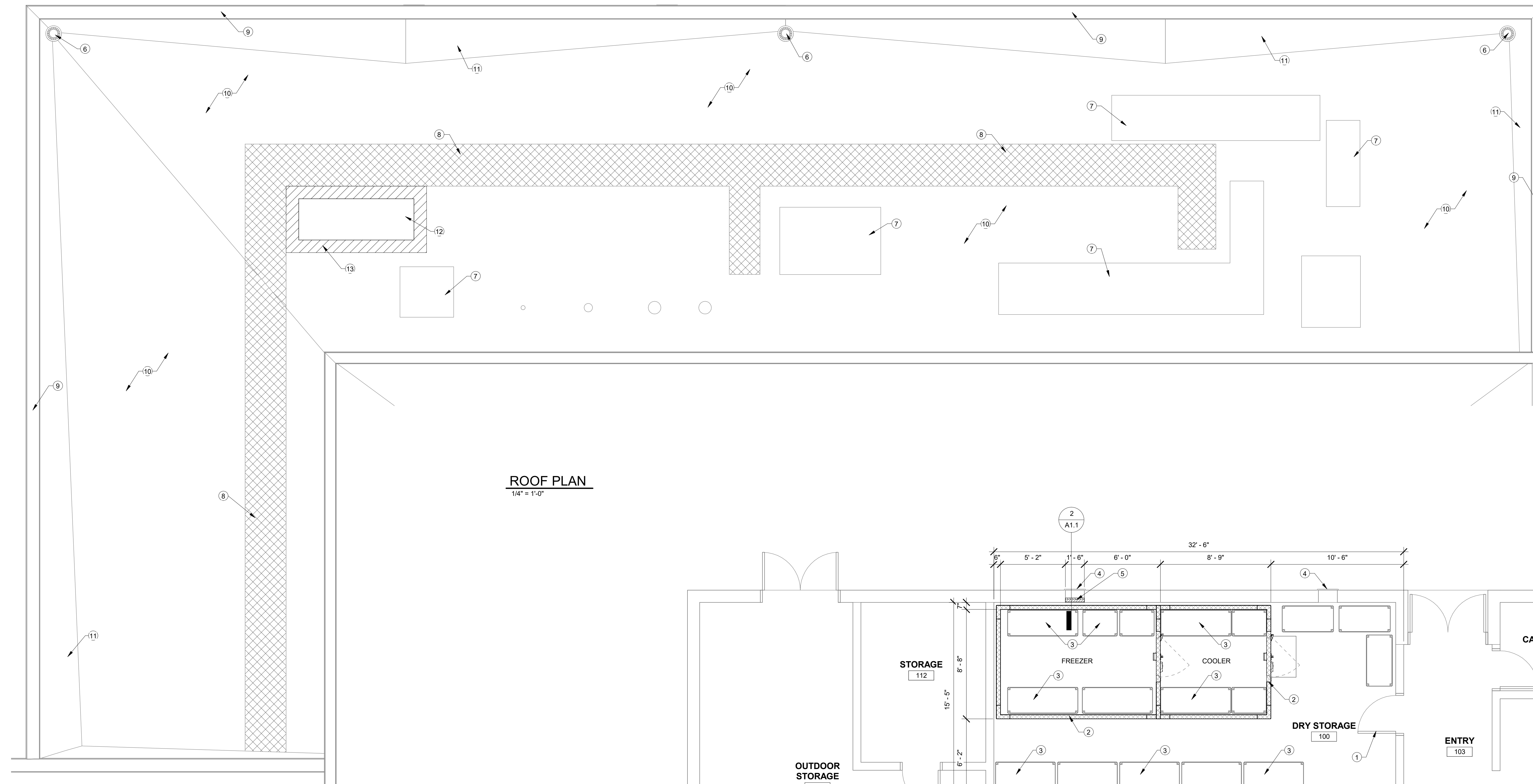
E0.1 - ELECTRICAL LEGENDS AND NOTES  
E0.2 - ELECTRICAL SCHEDULES  
ED1.1 - ELECTRICAL DEMOLITION PLAN  
E2.1 - LIGHTING AND ELECTRICAL PLANS

## VICINITY MAP

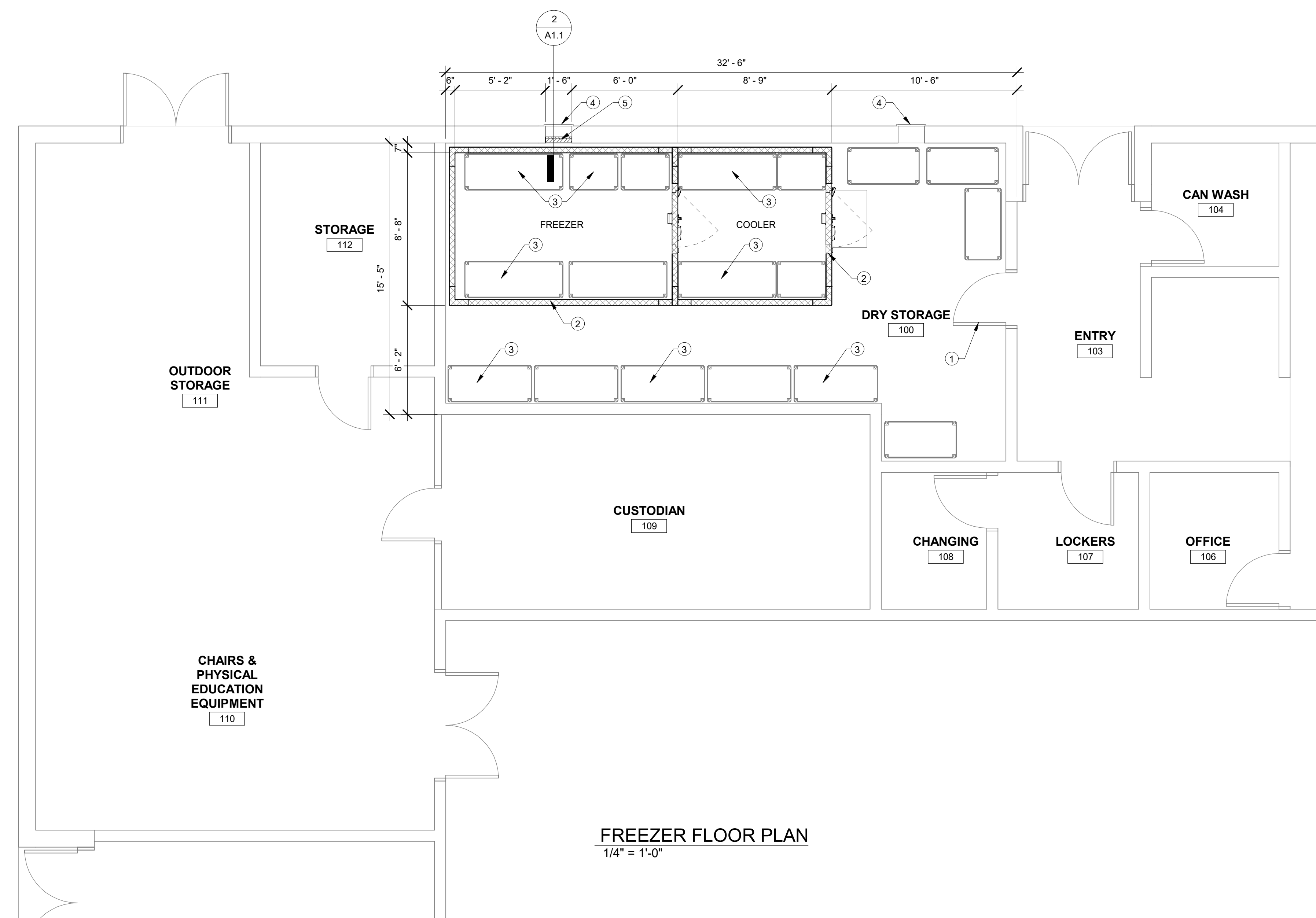


**SHEET NOTES**

- 1 - EXISTING CONSTRUCTION TO REMAIN. CONTRACTOR TO PATCH AND REPAIR AS REQUIRED DUE TO DEMOLITION AND NEW CONSTRUCTION.
- 2 - FREEZER/COOLER w/ INSULATED FLOOR SLAB. SEE SPECS.
- 3 - STORAGE SHELVES PROVIDED BY OWNER.
- 4 - EXISTING MECHANICAL GRILL TO REMAIN.
- 5 - STUD FRAMING IN EXISTING MECHANICAL VENT. SEE DETAIL 2/A1.1
- 6 - EXISTING ROOF DRAIN TO REMAIN.
- 7 - EXISTING MECHANICAL UNITS TO REMAIN.
- 8 - EXISTING WALKABLE ROOF MEMBRANE TO REMAIN.
- 9 - EXISTING METAL WALL CAP TO REMAIN.
- 10 - EXISTING ROOF MEMBRANE TO REMAIN.
- 11 - EXISTING ROOF CRICKET TO REMAIN.
- 12 - MECHANICAL CURB FOR CONDENSING UNITS. SEE DETAIL 1/A1.1 AND MECHANICAL DETAIL.
- 13 - PATCH AND REPAIR ROOFING MEMBRANE WITH LIKE MAERIAL AND PRODUCT - PER DISTRICT ROOFING STANDARD.



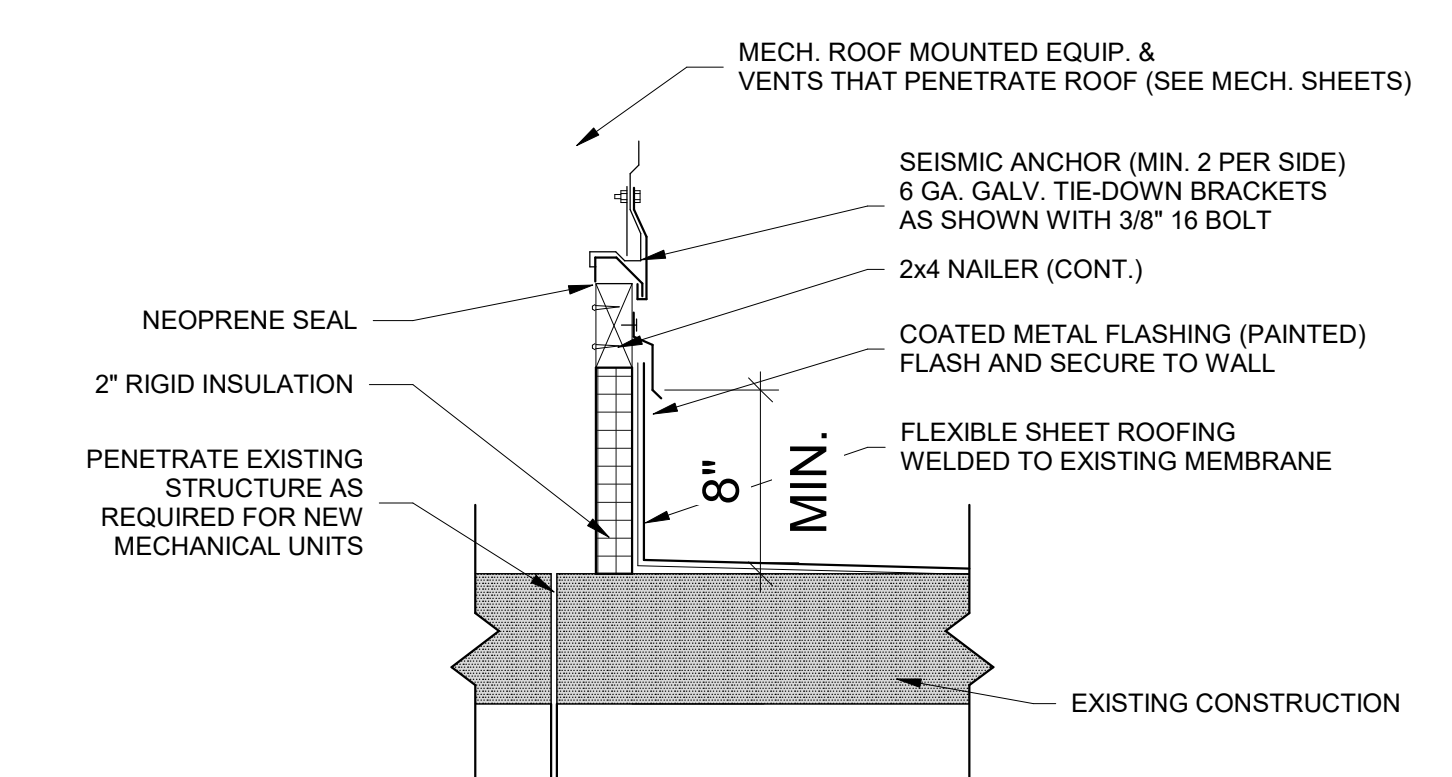
**ROOF PLAN**  
1/4" = 1'-0"



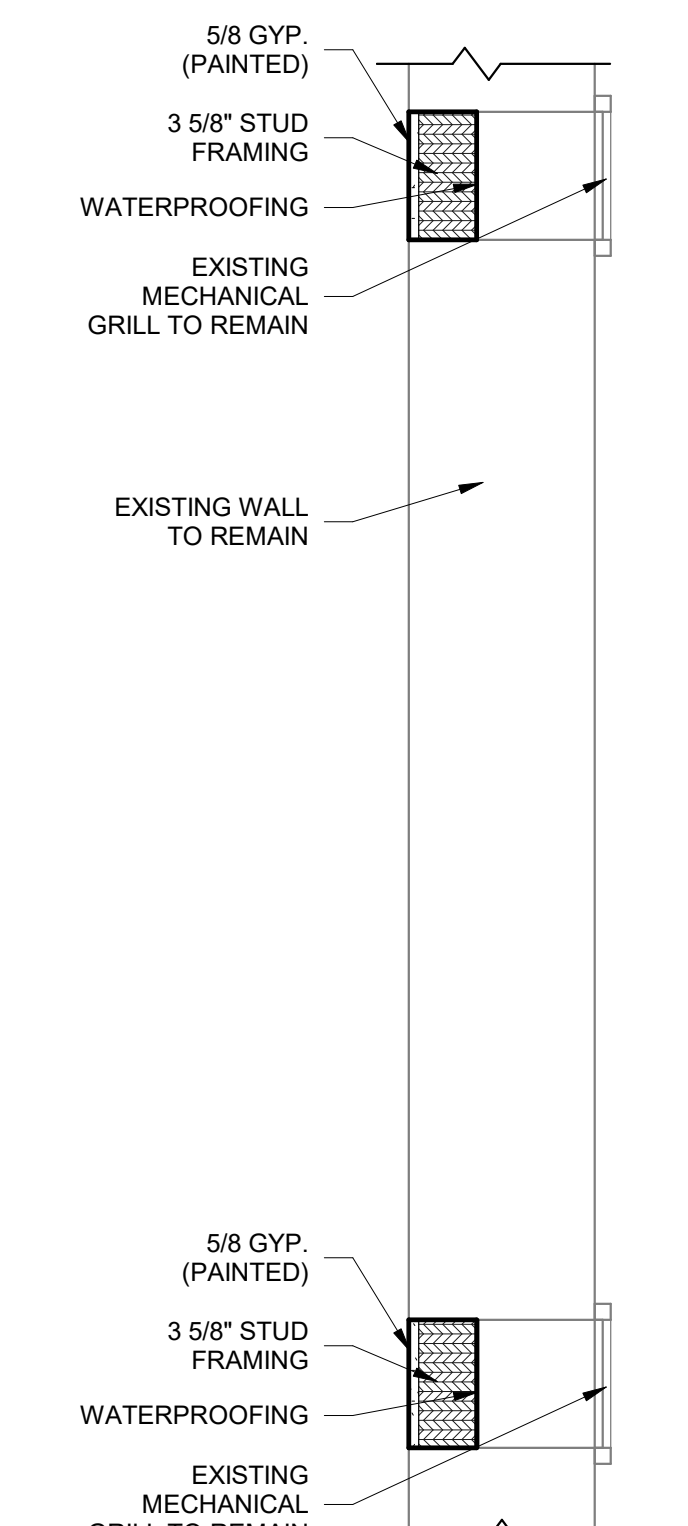
**FREEZER FLOOR PLAN**  
1/4" = 1'-0"

**SPECIFICATIONS**

- ITEM 0 - GENERAL SPECIFICATIONS**  
CUSTOM MODEL GENERAL SPECIFICATIONS
- A. WORK INCLUDED: IT IS THE INTENTION OF THIS SPECIFICATION TO DESIGNATE A INCLUSIVE JOB COMPLETE AND READY TO USE EXCEPT PLUMBING, HEATING AND ELECTRICAL CONNECTIONS WHICH SHALL BE MADE BY OTHERS. ALL EQUIPMENT SHALL BE SET IN PLACE LEVELED AND AFTER UTILITY CONNECTIONS HAVE BEEN MADE READY FOR USE.
- B. THE SUCCESSFUL CONTRACTOR WILL BE BOUND TO FURNISH EQUIPMENT IN STRICT ACCORDANCE WITH THE SPECIFICATIONS INCLUDING SPECIFIC MFR, MODEL, SIZE UTILITY REQS AS WELL AS ACCESSORIES.
- C. ALL EQUIPMENT SHALL BEAR THE NSF SEAL OF APPROVAL.
- D. GUARANTEE FOOD SERVICE EQUIPMENT AND ALL WORK FOR A PERIOD OF ONE YEAR. REFRIGERATION CONDENSING UNITS FOR A PERIOD OF FIVE YEARS.
- E. FIELD DIMENSIONS, KEC SHALL BE REQUIRED TO TAKE ALL FIELD DIMENSIONS AND BE RESPONSIBLE THEREFOR.
- F. SUBMITTALS: KEC SHALL PROVIDE PRODUCT DATA AND INSTALLATION INSTRUCTIONS AND INCLUDE DIMENSIONED SHOP DRAWINGS SHOWING ELEVATIONS, SECTIONS SHOWING ALL MATERIALS AND GAUGES.
- G. KEC SHALL PROVIDE OPERATION AND MAINTENANCE DATA. INCLUDE ALL THE ABOVE LISTED DATA, PLUS WIRING DIAGRAMS IN A BOUND ELECTRONIC MANUAL.
- H. ALL REFRIGERATION UNITS SHALL BE COMPLETELY INSTALLED BY THE KEC WITH THE EXCEPTIONS OF THE FINAL UTILITY CONNECTIONS.
- ITEM 1 - WALK IN COOLER/FREEZER (1 REQ'D)**  
ARCTIC INDUSTRIES MODEL ARCTIC WALK IN COOLER/FREEZER
- ARCTIC WALK IN COOLER/FREEZER WITH PRE-FAB INSULATED FLOOR 9'-0"X21'-5"X8'-6 1/2" HT. DOORS TO BE RIGHT HAND HINGED AND EACH SHALL INCLUDE VIEWPORT AND DIAMOND TREAD KICKPLATES EXTERIOR AND INTERIOR. COOLER DOOR TO BE PROVIDED WITH EXTERIOR RAMP DOORS TO HAVE THIRD HINGE. INTERIOR WALLS SHALL BE STUCCO EMBOSSED 26 GA WHITE. EXTERIOR WALLS SHALL BE STUCCO EMBOSSED 26 GA WITH THE EXCEPTION OF THE EXPOSED WALLS WHICH SHALL BE 26 GA STUCCO EMBOSSED WHITE. COOLER TO HAVE 2 LED LIGHTS AND FREEZER TO HAVE 3 LED LIGHTS. PRE-FAB INSULATED FLOOR TO BE REINFORCED WITH 3/4" PLYWOOD. FLOOR INTERIOR SHALL BE SMOOTH ALUMINUM. 100 FREEZER DOOR SHALL INCLUDE DOOR FRAME HEATER BOX SHALL BE AS PER ARCTIC DRAWING #0177071-3. PROVIDE CLOSURE PANELS OF 26 GA STUCCO EMBOSSED WHITE AT LEFT AND FRONT OF COOLER/FREEZER FROM TOP OF BOX TO FINISHED CEILING PROVIDE SIDE TRIM OF 26 GA STUCCO EMBOSSED WHITE AT BOTH EXPOSED CORNERS.
- ITEM 1.1 - COOLER CONDENSING UNIT (1 REQ'D)**  
ARCTIC INDUSTRIES MODEL RFO100M4SDANT
- COOLER CONDENSING UNIT 208/60/1 TO BE MOUNTED ON ROOF OF BUILDING OVER COOLER/FREEZER FOR 35 DEGREE OPERATION. ROOF CURB PROVIDED BY OTHERS.
- ITEM 1.2 - COOLER EVAPORATOR (1 REQ'D)**  
ARCTIC INDUSTRIES MODEL RL6A094ADARE
- RL6A094ADARE COOLER EVAPORATOR
- ITEM 1.2 - COOLER EVAPORATOR (1 REQ'D)**  
ARCTIC INDUSTRIES MODEL RL6A094ADARE
- RL6A094ADARE COOLER EVAPORATOR
- ITEM 1.3 - FREEZER CONDENSING UNIT (1 REQ'D)**  
ARCTIC INDUSTRIES MODEL RFO300L4SDANT
- RFO300L4SDANT FREEZER CONDENSING UNIT TO BE MOUNTED ON ROOF OF BUILDING. ROOF CURB BY OTHERS.
- ITEM 1.4 - FREEZER EVAPORATOR (1 REQ'D)**  
ARCTIC INDUSTRIES MODEL RL6E090DDARE
- RL6E090DDARE FREEZER EVAPORATOR DRAIN LINE HEATER TO BE BY REFRIGERATION CONTRACTOR. DRAIN LINE BY PLUMBING CONTRACTOR.

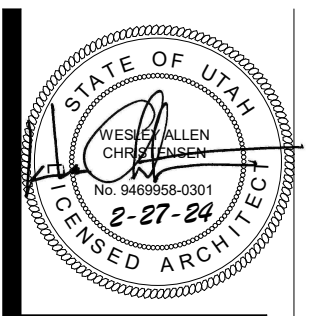


**1 CURB DETAIL**  
1 1/2" = 1'-0"



**2 WALL FRAMING DETAIL**  
1" = 1'-0"

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REVISIONS:

PROJECT TITLE: CANYONS SCHOOL DISTRICT  
**OAKDALE WALK-IN FREEZER**  
1900 CREEK ROAD  
COTTONWOOD HEIGHTS, UTAH

DRAWN BY: ZC  
CHECKED BY: WC  
DATE: FEB 2024  
PROJECT #: 168420

**A1.1**

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MECHANICAL SPECIFICATIONS

**SECTION 23 0100 GENERAL PROVISIONS**

**GENERAL CONDITIONS:**  
THE GENERAL CONDITIONS OF THE CONTRACT ARE A PART OF THIS SUB-CONTRACT.

**BASIC BID:**  
SHALL INCLUDE ALL LABOR AND MATERIALS SPECIFIED IN THIS DIVISION.

**SCOPE OF WORK:**  
THE WORK TO BE DONE UNDER THIS SECTION INCLUDES:

1. DEMOLITION (OF EXISTING EXHAUST FAN AND RELIEF AIR LOUVER).
2. PLUMBING (CONDENSATE PIPING AND HEAT TRACE).
3. EQUIPMENT BASE (FOR FREEZER & COOLER CONDENSING UNITS).
4. EXHAUST CONTROLS (FOR EXISTING EXHAUST FAN).

**ORDINANCES:**  
THE WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL AND STATE PLUMBING CODES.

**FEES & PERMITS:**  
THIS CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES REQUIRED IN CONNECTION WITH THE WORK.

**MATERIALS, EQUIPMENT AND ACCESSORIES:**  
UNLESS OTHERWISE SPECIFIED, ALL EQUIPMENT, ACCESSORIES, AND MATERIALS SHALL BE NEW AND UNDAMAGED, WHERE TWO OR MORE UNITS OF THE SAME CLASS ARE REQUIRED, THEY SHALL BE PRODUCTS OF A SINGLE MANUFACTURER.

**REMOVAL OF DEBRIS, ETC.:**  
UPON COMPLETION OF THIS DIVISION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH.

**CUTTING AND PATCHING:**  
ANY CUTTING, PATCHING, OR FILLING NECESSARY FOR THE PROPER EXECUTION OF THIS WORK SHALL BE DONE BY THIS CONTRACTOR. NO ROUGH OR UNSIGHTLY WORK WILL BE ALLOWED, AND CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE ONLY ON APPROVAL OF THE ARCHITECT.

**FLOOR AND WALL PLATES:**  
WHERE PIPES PASS THRU WALLS OR PARTITIONS IN THE FINISHED PART OF THE BUILDING, CHROMIUM PLATES SHALL BE PROVIDED ON ALL NEW PIPE WORK.

**PENETRATIONS THRU FIRE RESISTANCE RATED WALLS AND FLOORS:**  
WHERE PIPING PENETRATES THRU FIRE RESISTANCE RATED WALLS, AN APPROVED AND LISTED THROUGH-PENETRATION FIRE-STOP SYSTEM SHALL BE INSTALLED.

**PIPES AND FITTINGS:**  
ALL PIPE AND FITTINGS SHALL BE OF THE INSIDE DIAMETER DESIGNATED, SMOOTH INSIDE, WITH OUTER AND INNER SURFACES CONCENTRIC, SOUND AND FREE FROM ALL DEFECT.

**SITE INSPECTION AND EXAMINATION OF DRAWINGS:**  
THE CONTRACTOR SHALL CAREFULLY EXAMINE THE BUILDING SITE AND STUDY ALL DRAWINGS AND SPECIFICATIONS PERTAINING TO THE WORK BEFORE SUBMITTING A BID.

**VERIFICATION OF DIMENSIONS:**  
BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING IN OF HIS DUCTS, PIPES, AND EQUIPMENT.

**RECORD DRAWINGS:**  
THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE SET OF RECORD DRAWINGS.

**COOPERATION WITH OTHERS:**  
THE CONTRACTOR SHALL SO ORGANIZE THE WORK THAT HIS PROGRESS WILL HARMONIZE WITH THE WORK OF ALL TRADES, SO THAT ALL WORK MAY PROCEED AS EXPEDITIOUSLY AS POSSIBLE.

**GUARANTEE:**  
THE MECHANICAL AND PLUMBING SYSTEMS SHALL BE PLACED UNDER A ONE YEAR GUARANTEE AFTER DATE OF FINAL ACCEPTANCE BY THE ARCHITECT. ANY CALIBRATION, PARTS, OR LABOR NECESSARY DUE TO FAULTY INSTALLATION OR FAULTY EQUIPMENT SHALL BE REPLACED DURING THIS PERIOD AT NO COST TO THE OWNER.

**SECTION 23 0500 BASIC MATERIALS & METHODS**

**GENERAL:**  
ALL MATERIALS SHALL BE NEW AND UNDAMAGED, INSERTS AND SLEEVES SHALL BE FURNISHED AND SET BY THIS CONTRACTOR SO THEY APPLY TO THE MECHANICAL WORK.

ALL PIPING SHALL BE SLOPED DOWN IN THE DIRECTION OF FLOW TO FACILITATE DRAINAGE.

THE ROOF BASE MOUNTED EQUIPMENT SHALL BE MOUNTED ON A BASE PROVIDED AND INSTALLED BY THIS CONTRACTOR AS DETAILED.

**PRODUCTS:**  
PIPING MATERIALS:  
ALL PIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. NO FOREIGN MADE PIPING WILL BE ACCEPTED IN THIS CONSTRUCTION.

ALL CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER WITH SOLDERED FITTINGS.

REFRIGERATION PIPING SHALL BE PROVIDED AND INSTALLED BY THE KITCHEN CONTRACTOR.

**PIPE LOCATION AND ARRANGEMENT:**  
ALL CONDENSATE PIPING SHALL BE RUN OVERHEAD WHERE POSSIBLE.

ALL PIPING SHALL RUN IN STRAIGHT LINES WITH THE BUILDING AND RUN CLEAR TO FACILITATE MAINTENANCE WORK.

**UNIONS:**  
UNIONS SHALL BE INSTALLED WHERE PIPING IS CONNECTED TO THE CONDENSING UNITS.

**HEAT TRACE:**  
HEAT TRACE SHALL BE SELF REGULATING LOW TEMPERATURE TYPE WITH A HEAT OUTPUT OF 5 WATTS/SFT. (17 BTU/HRT) AND A WEATHER PROOF PVC SHEATH. THE HEATING CABLE SHALL AUTOMATICALLY ADJUST HEAT OUTPUT TO CORRESPOND WITH THE HEAT LOSS RATE. CABLE SHALL BE UL AND FM APPROVED FOR USE IN WALK-IN COOLERS AND FREEZERS.

CABLE SYSTEM SHALL BE FURNISHED WITH POWER TERMINATION, END SEAL KITS, SPLICE AND TEE FITTINGS, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

APPROVED MANUFACTURERS: THERMON, CHROMALOX, OR PRIOR APPROVED EQUAL.

**EXECUTION:**  
**PIPE CLEANING:**  
ALL PIPING SYSTEMS AND COMPONENTS TO BE CLEANED AND FLUSHED PRIOR TO OPERATING THE SYSTEM.

**SECTION 23 0700 INSULATION**

**GENERAL:**  
ALL CONDENSATE DRAIN PIPING INSIDE WALK-IN FREEZER AND COOLER SHALL BE INSULATED.

ALL INSULATION SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 50.

REFRIGERANT LINES SHALL BE INSULATED BY THE KITCHEN CONTRACTOR.

**PRODUCTS:**  
ALL CONDENSATE PIPING SHALL BE INSULATED WITH 0.75" THICK CLOSED CELL FOAM INSULATION (EQUAL TO ARMAFLEX).

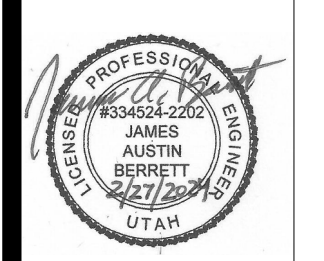
**SECTION 23 9000 AUTOMATIC TEMPERATURE CONTROL**

**GENERAL:**

**SCOPE:**  
THE CONTRACTOR, UNDER THIS HEADING, SHALL RE-CONFIGURE THE CONTROLS FOR THE EXISTING EXHAUST FAN REMAINING IN THE DRY STORAGE SPACE TO RUN WITHOUT THE SECOND EXHAUST FAN (TO BE REMOVED).

**SEQUENCE OF CONTROL:**  
**ROOM EXHAUST:**  
THE EXISTING WALL MOUNTED EXHAUST FAN SHALL OPERATE THRU AN EXISTING TEMPERATURE SENSOR (BULB). UPON A CALL FOR COOLING, THE EXHAUST FAN SHALL TURN ON, OTHERWISE THE FAN SHALL REMAIN OFF.

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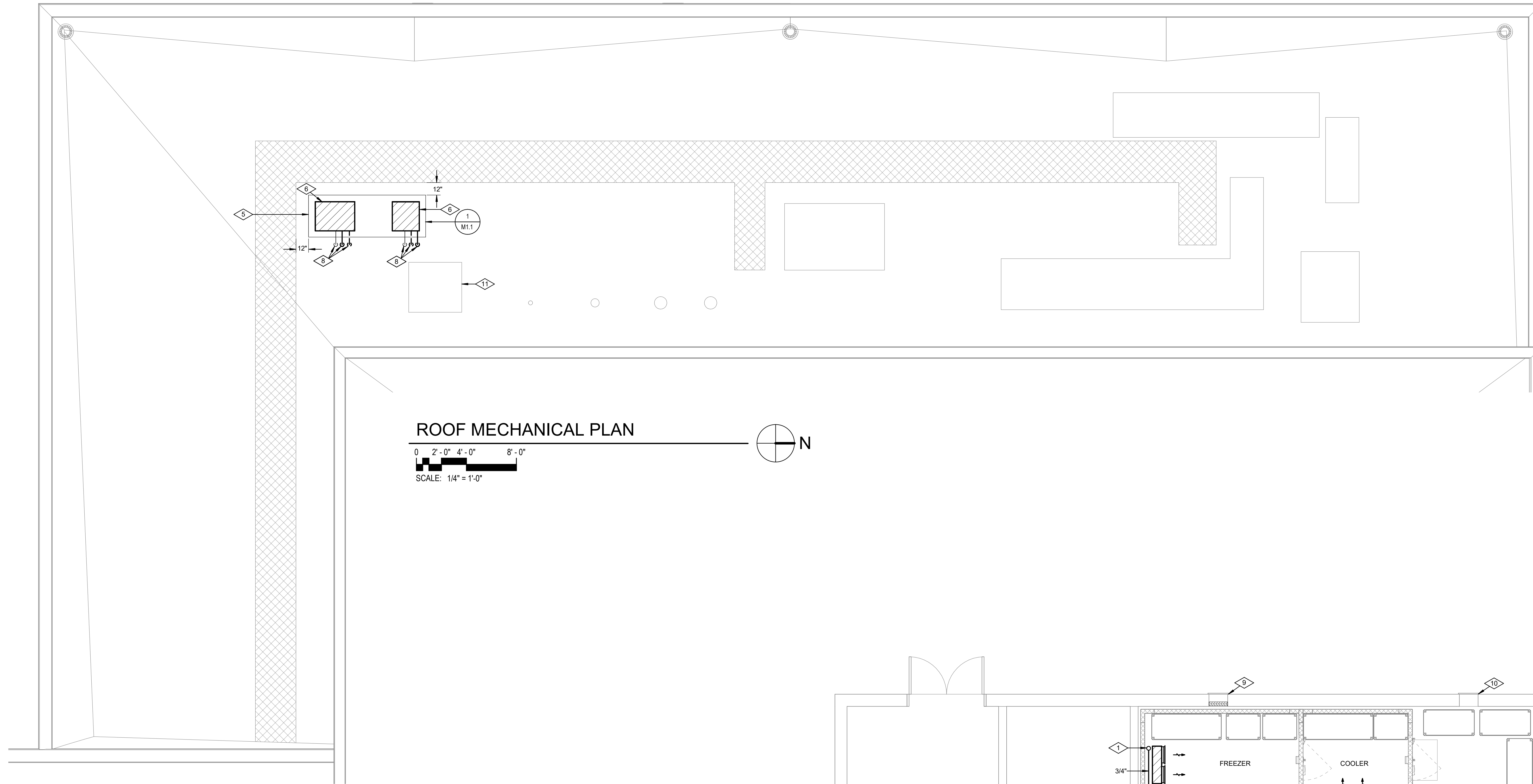
PROJECT TITLE  
CANYONS SCHOOL DISTRICT  
OAKDALE WALK-IN FREEZER  
COTTONWOOD HEIGHTS, UTAH  
1900 CREEK ROAD

DRAWN BY: HBM  
CHECKED BY: JAB  
DATE: FEB 27, 2024  
PROJECT #: 168420

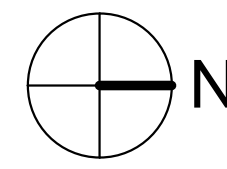
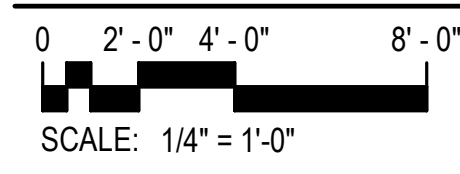
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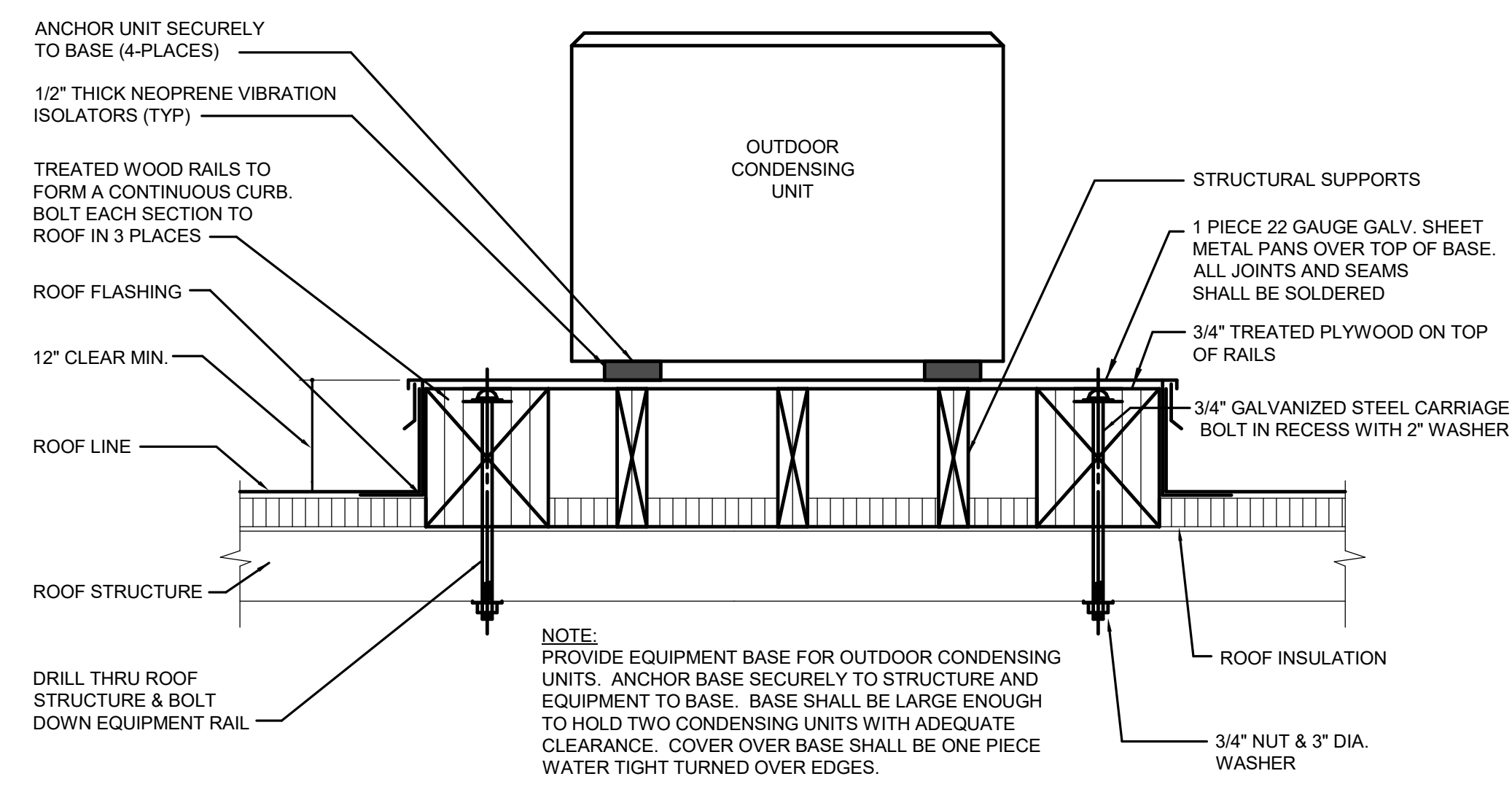


**ROOF MECHANICAL PLAN**



**REFERENCE NOTES**

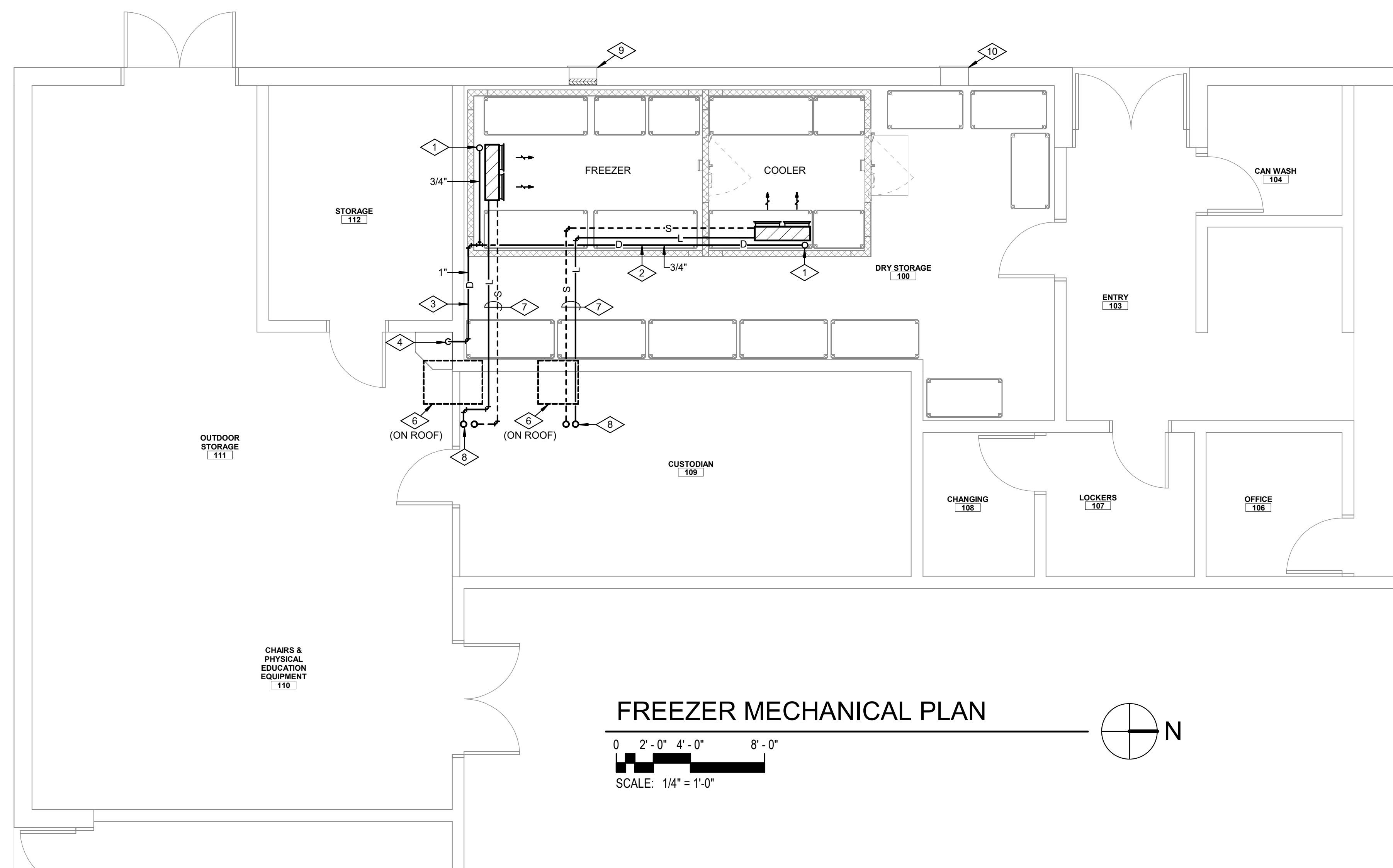
- 1 CONNECT CONDENSATE DRAIN LINE TO EVAPORATOR. BY MECHANICAL CONTRACTOR.
- 2 RUN CONDENSATE DRAIN LINE EXPOSED ON WALL AS HIGH AS POSSIBLE INSIDE COOLER/FREEZER. INSULATE PIPING IN COOLER AND FREEZER. HEAT TRACE PIPING IN FREEZER ONLY. BY MECHANICAL CONTRACTOR.
- 3 RUN CONDENSATE LINE EXPOSED ON WALL AS HIGH AS POSSIBLE. BY MECHANICAL CONTRACTOR.
- 4 CORE DRILL AND RUN PIPING THRU EXISTING WALL. PIPING DROP TO TERMINATE AT 1' ABOVE EXISTING SERVICE SINK. BY MECHANICAL CONTRACTOR.
- 5 NEW ROOFTOP EQUIPMENT BASE. SEISMICALLY ANCHOR BASE TO STRUCTURE AND SECURE CONDENSING UNITS TO BASE WITH 1/2" NEOPRENE VIBRATION ISOLATION PADS. REPAIR ROOF AS NECESSARY. BY MECHANICAL CONTRACTOR.
- 6 NEW CONDENSING UNIT. BY KITCHEN CONTRACTOR.
- 7 RUN REFRIGERANT LIQUID AND SUCTION LINES EXPOSED, TIGHT TO CEILING. BY KITCHEN CONTRACTOR.
- 8 REFRIGERANT LIQUID, SUCTION, AND POWER CONTROLS TO PENETRATE THRU ROOF AT INDIVIDUAL ROOF JACKS. REPAIR ROOFING AS NECESSARY. BY KITCHEN CONTRACTOR.
- 9 REMOVE EXISTING EXHAUST FAN (HIGH IN WALL) AND EXISTING RELIEF AIR LOUVER (LOW IN WALL). BY MECHANICAL CONTRACTOR.
- 10 EXISTING FAN AND RELIEF AIR LOUVER TO REMAIN. RECONFIGURE CONTROLS TO RUN WITH ONLY A SINGLE FAN REMAINING. BY MECHANICAL CONTRACTOR.
- 11 EXISTING COMBUSTION AIR ROOF HOOD TO REMAIN.



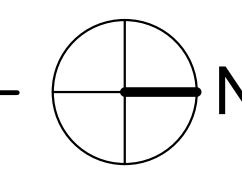
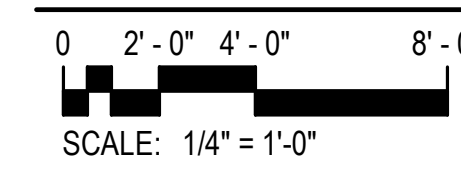
**CONDENSING UNIT ROOFTOP EQUIPMENT BASE DETAIL**

NOT TO SCALE

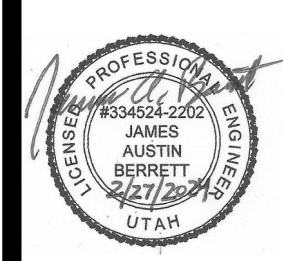
1  
M1.1



**FREEZER MECHANICAL PLAN**



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REVISIONS:

OAKDALE WALK-IN FREEZER  
COTTONWOOD HEIGHTS, UTAH

CANYONS SCHOOL DISTRICT  
PROJECT TITLE

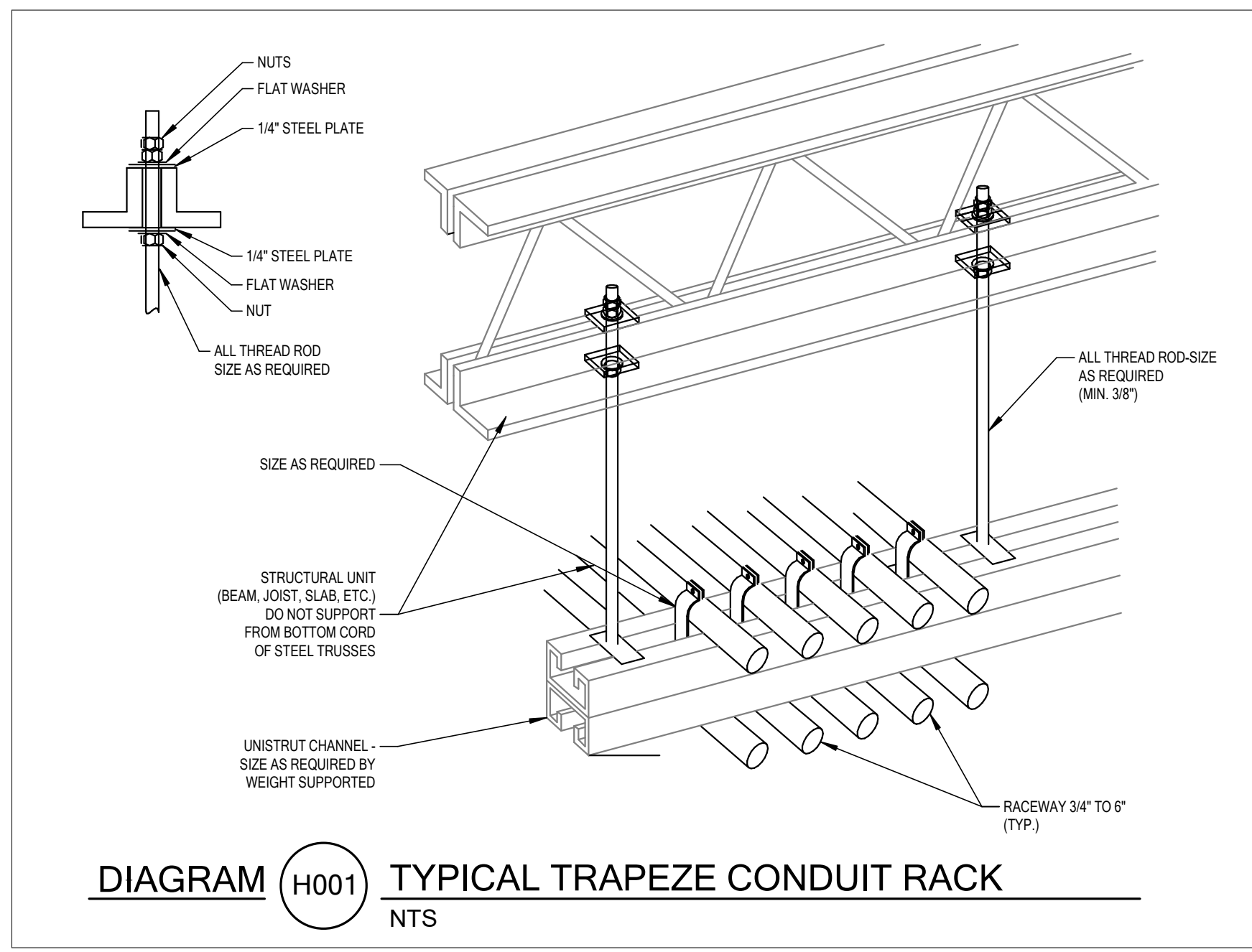
1900 CREEK ROAD

DRAWN BY: HBM  
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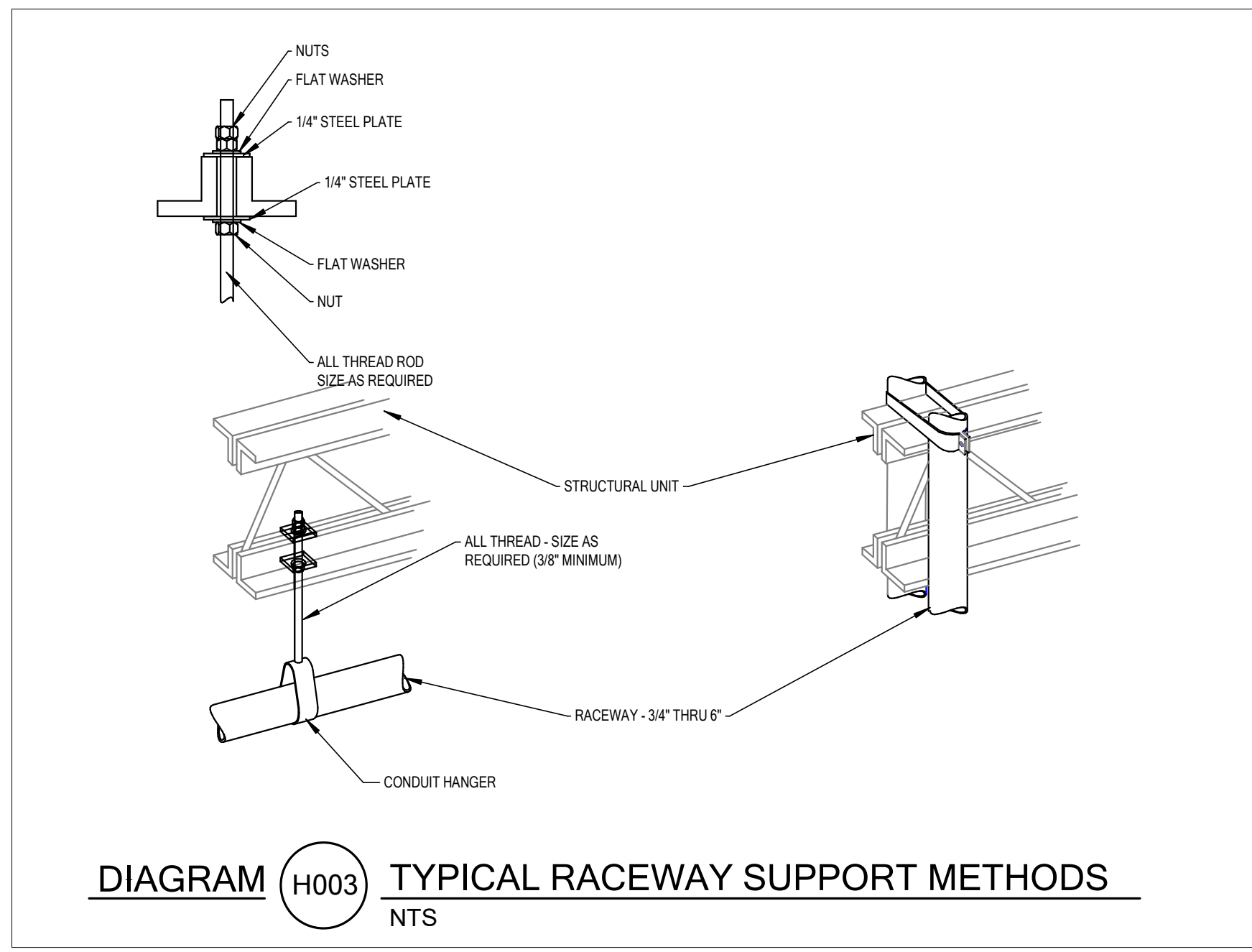
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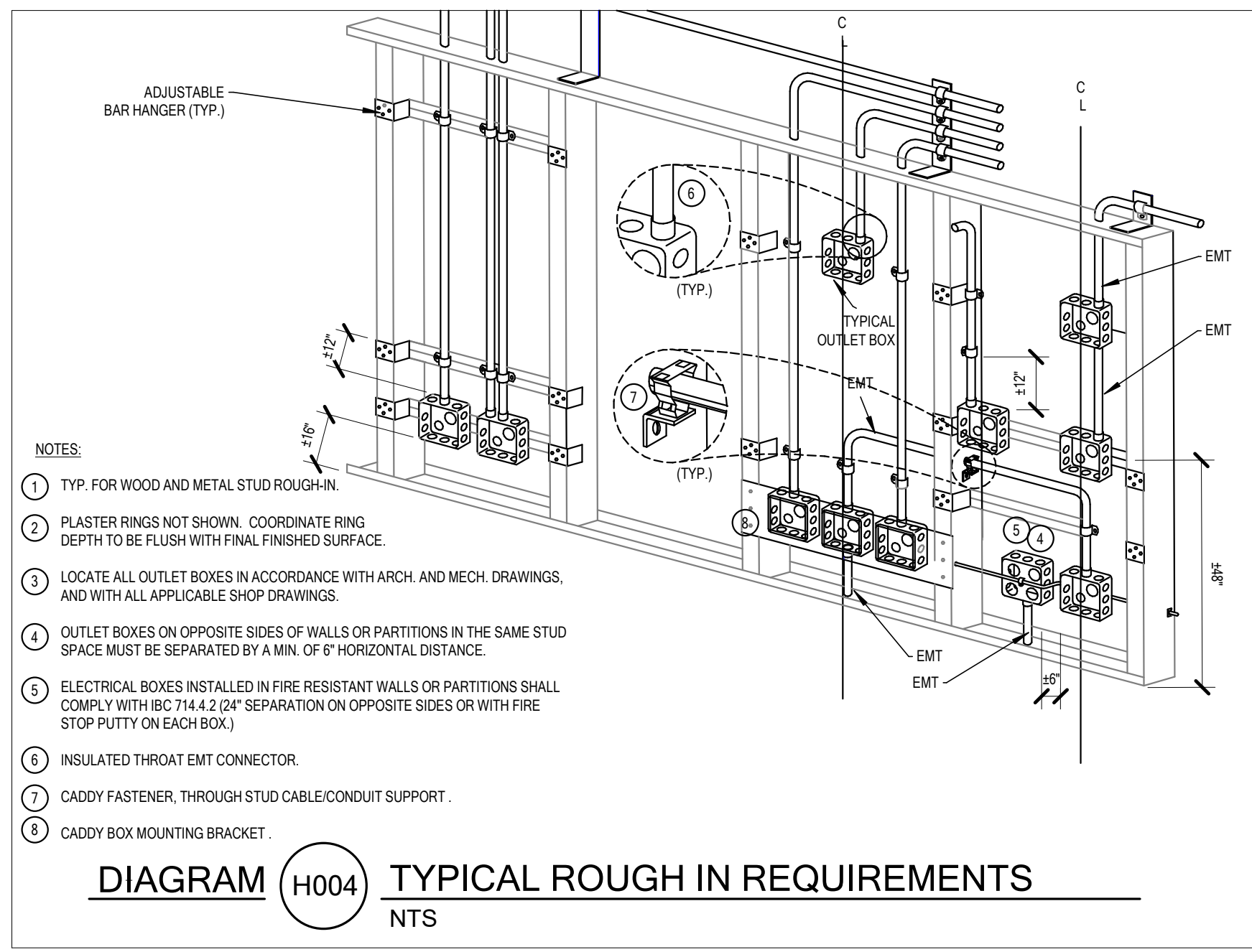
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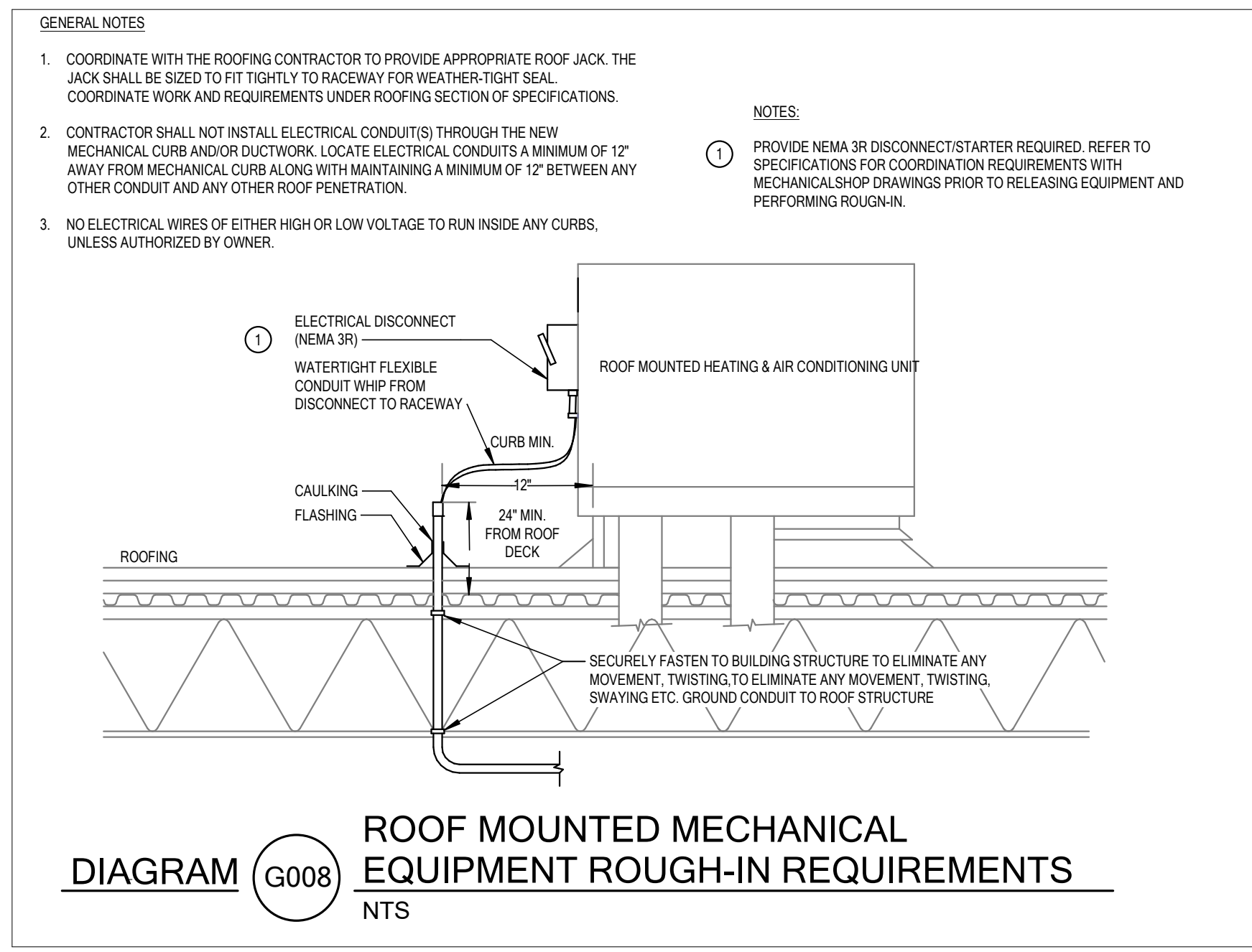
**DIAGRAM (H001) TYPICAL TRAPEZE CONDUIT RACK NTS**



**DIAGRAM (H003) TYPICAL RACEWAY SUPPORT METHODS NTS**



**DIAGRAM (H004) TYPICAL ROUGH IN REQUIREMENTS NTS**



**DIAGRAM (G008) ROOF MOUNTED MECHANICAL EQUIPMENT ROUGH-IN REQUIREMENTS NTS**

### SYMBOL LEGEND

**NOTES:**

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
- NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED), USE 'HD' 480 V.
- HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
- DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- SUBSCRIPT INDICATES NEMA CONFIGURATION.
- SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
- COORDINATE WITH DOOR HARDWARE SUPPLIER.
- FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16\"/>

\*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

**STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS**

GENERAL		LIGHTING	
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
—	ONE CIRCUIT, HOME RUN TO PANEL		
—	TWO CIRCUIT, HOME RUN TO PANEL		
—	THREE CIRCUIT, HOME RUN TO PANEL		
—	CONDUIT RUN CONCEALED IN WALL OR CEILING		
—	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
—	CONDUIT UP		
—	CONDUIT DOWN		
—	CONDUIT STUB LOCATION	CAP CONDUIT	
—	CONDUIT / CIRCUIT CONTINUATION		
⊙	CEILING LIGHT FIXTURE	CEILING	1.
⊙	WALL LIGHT FIXTURE	AS NOTED	1.
⊙	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
⊙	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.
⊙	LIGHT FIXTURE	AS NOTED	1.
⊙	EGRESS LIGHT FIXTURE	AS NOTED	1.
⊙	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	1. SEE DIAGRAM
⊙	BOLLARD	CONCRETE BASE	1.
⊙	STEP LIGHT FIXTURE	AS NOTED	1.
⊙	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.
⊙	FLOOD OR TRACK FIXTURE	AS NOTED	1.
⊙	CEILING / WALL MOUNTED EXIT LIGHT	CEILING / AS NOTED	1, 3, 8.
⊙	EMERGENCY LIGHT FIXTURE	AS NOTED	1.
⊙	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.
⊙	TIME CLOCK	+60"	2.
⊙	POWER PACK	ABOVE CEILING	SEE DIAGRAM, SPEC.
⊙	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM, SPEC.
⊙	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.
⊙	THREE-WAY SWITCH	+46"	2, 4.
⊙	FOUR-WAY SWITCH	+46"	2, 4.
⊙	KEY OPERATED SWITCH	+46"	2, 4.
⊙	SWITCH WITH PILOT LIGHT	+46"	2, 4.
⊙	VARIABLE INTENSITY SWITCH	+46"	2, 4.
⊙	TIMER SWITCH	+46"	2, 4.
⊙	MOMENTARY CONTACT SWITCH	+46"	2, 4.
⊙	LOW VOLTAGE WALL STATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SPEC.
⊙	DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLS)	CEILING	SEE DIAGRAM, SPEC.
⊙	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCRIPT 'D' = DIMMING AND DAYLIGHT CONTROL)	+46"	2, 4. SEE DIAGRAM, SPEC.
⊙	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	PER MFR.
⊙	DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.
⊙	PLUGMOLD	+46" OR AS NOTED	2. SEE SPEC.
⊙	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM, SPEC. 26, 27/26
⊙	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SEE DIAGRAM, SPEC.
⊙	CLOCK OUTLET	+90"	2.
⊙	DOORBELL CHIME	+90"	2.
⊙	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
⊙	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
⊙	PANEL BOARD	+72"	6.
⊙	MAIN DISTRIBUTION PANEL		
⊙	TELEPHONE DEMARCATION BOARD		
⊙	EQUIPMENT CEILING RACK	CEILING	
⊙	EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.
⊙	EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.
⊙	UTILITY METER / CT CABINET	+72"	6.
⊙	WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.
⊙	SPLITTER	ABOVE CEILING	
⊙	VIA	ABOVE CEILING	
⊙	FIBER BDA	ABOVE CEILING	
⊙	ANTENNA	CEILING	

**TELECOMMUNICATIONS**

**COLOR LEGEND**

Lighting Fixtures	Power Devices	Audio/Visual
Lighting Devices	Telecommunications	Security
Power Equipment	Fire Alarm	Nurse Call
Cable Tray	Conduit	

### GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS, VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC. OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 26100 (1610) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH-IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

MAXIMUM LENGTH (FT)	BRANCH CIRCUIT VOLTAGE	
	120 VOLT	277 VOLT
<70	MIN. #12 AWG	MIN. #12 AWG
70 - 115	MIN. #10 AWG	MIN. #12 AWG
115 - 170	MIN. #8 AWG	MIN. #10 AWG
170 - 270	MIN. #6 AWG	MIN. #8 AWG
271 - 360	NOTE B	MIN. #8 AWG
>360	NOTE B	NOTE B

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.

C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

### ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPERE METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CONTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
CW	COMPLETE WITH	RLA	RATED LOAD AMPS
DCBL	DECEMBER	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING TO REMAIN, UNLESS OTHERWISE NOTED	SPEC	SPECIFICATIONS
EG	EMERGENCY GENERATOR	SPKR	SPEAKER
EMT	ELECTRICAL METALLIC TUBING	SS	SELECTOR SWITCH
EX	EXPLOSION PROOF	SW	SWITCH
FACP	FIRE ALARM CONTROL PANEL	SWBD	SWITCHBOARD
FC	FOOT CANDLE	SWGR	SWITCHGEAR
FT	FOOT	TTB	TELEPHONE TERMINAL BOARD
GF	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUNDED	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV=KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VAR	VOLT-AMPS REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	W/P	WEATHERPROOF
KVAR	KILOVARS	XFRM	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTO	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
MCM	1000 CIRCULAR MILLS		

### SHEET INDEX

ED.1	ELECTRICAL SYMBOLS AND NOTES
ED.2	ELECTRICAL SCHEDULES AND NOTES
ED.1.1	ELECTRICAL DEMOLITION PLANS
ED.2	LIGHTING AND ELECTRICAL PLANS

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CANYONS SCHOOL DISTRICT

OAKDALE WALK-IN FREEZER

1900 CREEK ROAD

KMA ARCHITECTS

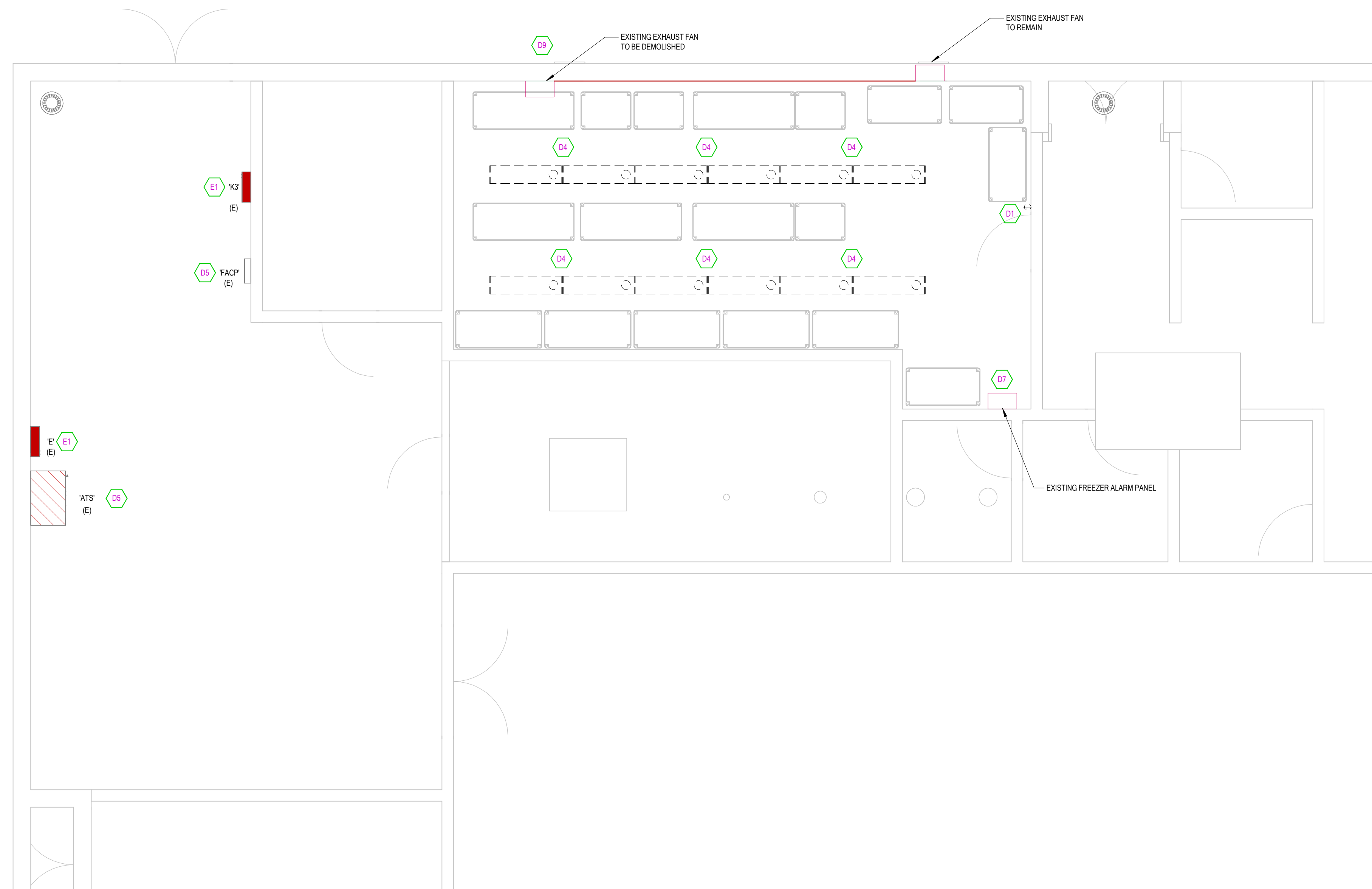
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**ELECTRICAL DEMOLITION PLAN**  
SCALE = 1/4" = 1'-0"

### DEMOLITION NOTES

- DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLEING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION.
- REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
- DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPICE BOXES UP TO THE PANELS AND SWITCHGEAR. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.
- WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
- COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL APPARATUS IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS.
- DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED.

### SHEET KEYNOTES

- D1 LIGHT SWITCH TO BE DEMOLISHED. REMOVE BACK BOX, CONDUIT AND CABLEING BACK TO SOURCE.
- D4 REMOVE EXISTING LIGHT FIXTURES, RACEWAY AND CONDUCTORS FROM THE INDICATED SPACE. SECURE EXISTING LIGHTING CIRCUITS TO THE DECK ABOVE FOR RE-USE DURING THE REMODEL PHASE.
- D5 EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- D7 EXISTING FREEZER CONTROL NODES 1-4 TO BE REMOVED. MAINTAIN BOX LOCATION AND ALL CONDUIT TO BE RE-USED WITH NEW FREEZER.
- D9 EXISTING EXHAUST FAN TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL CONDUIT AND WIRE BACK TO THE PANEL.
- E1 INVESTIGATE EXISTING PANEL BOARD AND UTILIZE AVAILABLE SPARE BREAKERS FOR NEW MECHANICAL EQUIPMENT CIRCUITS. CHANGE AND CONSOLIDATE CIRCUITS AND BREAKERS AS REQUIRED.

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REVISIONS:

PROJECT TITLE: CANYONS SCHOOL DISTRICT  
**OAKDALE WALK-IN FREEZER**  
COTTONWOOD HEIGHTS, UTAH  
1900 CREEK ROAD

DRAWN BY: Author  
CHECKED BY: Checker  
DATE: FEBRUARY 2024  
PROJECT #: 168420

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# PANELBOARD SCHEDULE

PANEL: E (E) TYPE: Type 1 VOLTS: 120/208 V PHASE: 3 WIRES: 4

MOUNTING: SURFACE LOCATION: OUTDOOR STORAGE 111 MAINS: MLO  
 BUSSING: FED FROM: AMP: 150 A

- SUBFEED LUGS
- DOOR-IN-DOOR
- ISO GROUND
- 200% NEUTRAL
- SPD

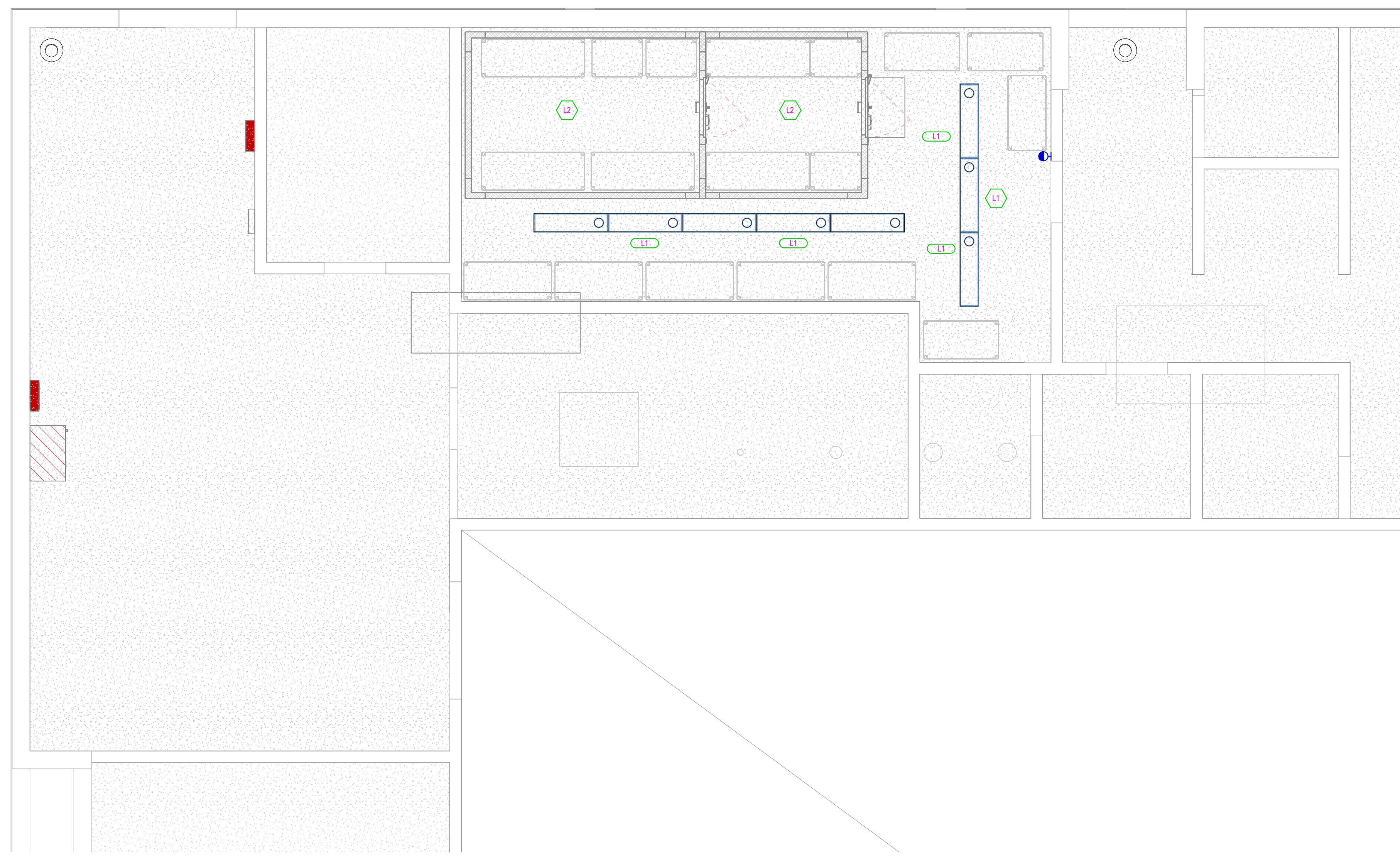
### BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
EXISTING	20 A	1	—	1	0			0			2	—	1	20 A	EXISTING
EXISTING	20 A	1	—	3		0		0			4	—	1	20 A	EXISTING
EXISTING	20 A	1	—	5			0	0			6	—	1	20 A	EXISTING
EXISTING	20 A	1	—	7	0			0			8	—	1	20 A	EXISTING
EXISTING	20 A	1	—	9		0		0			10	—	1	20 A	EXISTING
EXISTING	20 A	1	—	11			0	0			12	—	1	20 A	EXISTING
EXISTING	20 A	1	—	13	0			0			14	—	1	20 A	EXISTING
***FREEZER CONDENSING	25 A	2	12	15		1664		0			16	—	1	20 A	EXISTING
				17			1664	0			18	—	1	20 A	EXISTING
EXISTING	20 A	1	—	19	0			0			20	—	1	20 A	EXISTING
EXISTING	20 A	1	—	21		0		0			22	—	1	20 A	EXISTING
EXISTING	20 A	1	—	23			0	0			24	—	1	20 A	EXISTING
EXISTING	20 A	1	—	25	0			1123			26	12	2	20 A	***FREEZER EVAPORATOR
***COOLER CONDENSING UNIT	20 A	2	12	27			749				28	—	—	—	***LIGHTING AND HEAT TRACE
				29				749			30	12	1	20 A	***DRAN HEAT TAPE
EXISTING	20 A	1	—	31	0			600			32	12	1	20 A	EXISTING
EXISTING	20 A	1	—	33		0		0			34	—	1	20 A	EXISTING
EXISTING	20 A	1	—	35			0	0			36	—	1	20 A	EXISTING
EXISTING	20 A	1	—	37	0			0			38	—	1	20 A	EXISTING
EXISTING	20 A	1	—	39		0		0			40	—	1	20 A	EXISTING
EXISTING	20 A	1	—	41			0	0			42	—	1	20 A	EXISTING

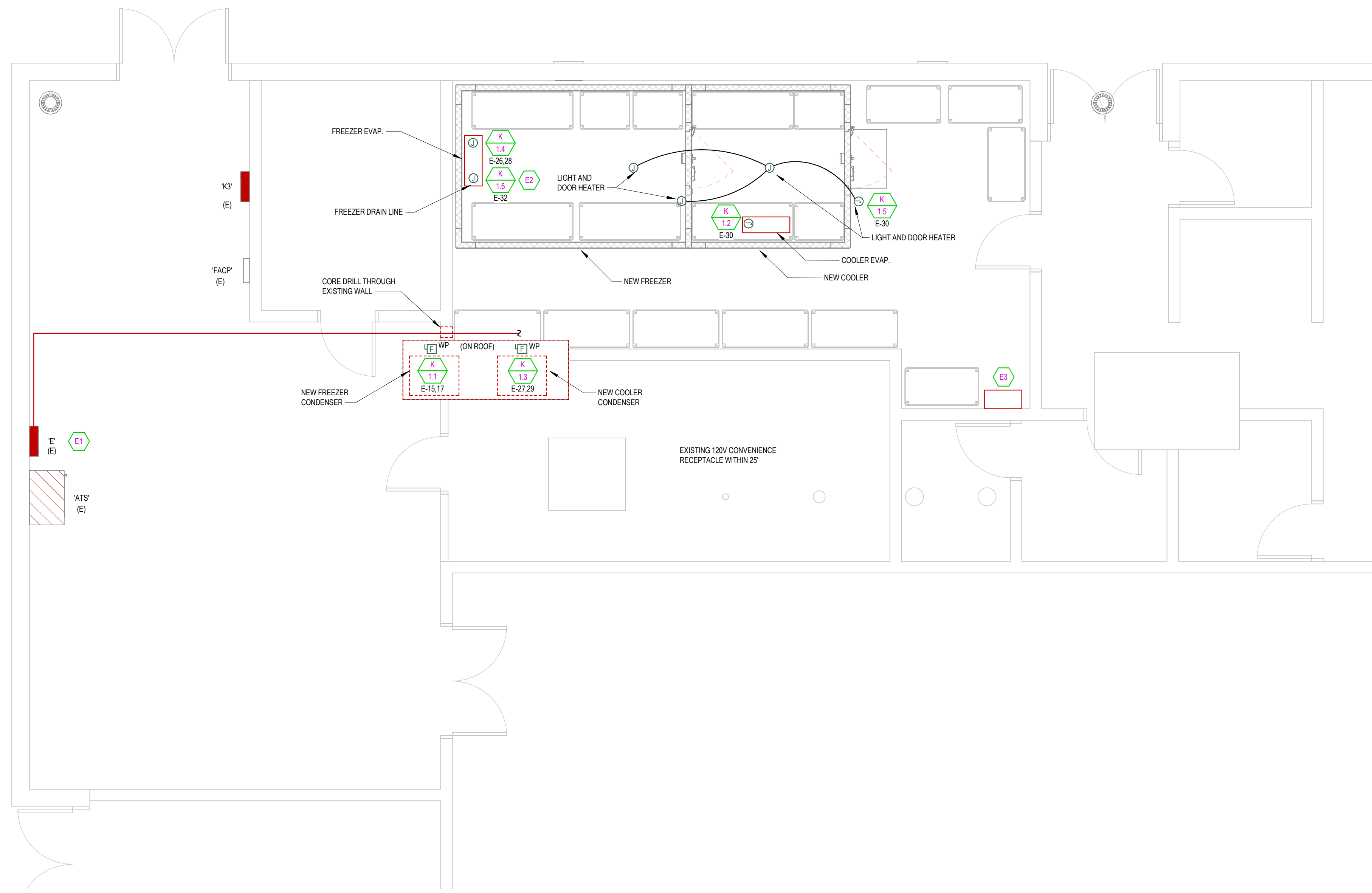
TOTAL (VA)				CONNECTED LOAD TOTAL	
1723	3536	3805		9064	VA
14 A	32 A	34 A	AMPS/PHASE		

AIC RATING 10,000 AMP RMS SYSTM

NOTES: EXISTING SIEMENS S1 TYPE PANELBOARD - BL, BLH, HBL, BLF, BLHF BREAKERS  
 \* PROVIDE SPA-DFCI CIRCUIT BREAKER  
 \*\* PROVIDE APC-FAULT CIRCUIT BREAKER  
 \*\*\* PROVIDE NEW BREAKER AS REQUIRED



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



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

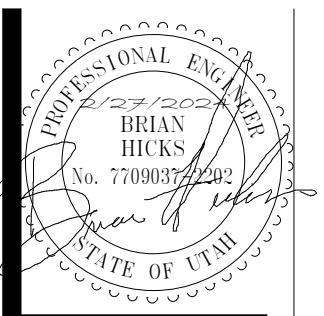
## SHEET KEYNOTES

- E1 INVESTIGATE EXISTING PANEL BOARD AND UTILIZE AVAILABLE SPARE BREAKERS FOR NEW MECHANICAL EQUIPMENT CIRCUITS. CHANGE AND CONSOLIDATE CIRCUITS AND BREAKERS AS REQUIRED.
- E2 PROVIDE CONNECTION TO HEAT TRACE ON FREEZER DRAIN LINE. FIELD VERIFY DRAIN AND TERMINATION LOCATION PRIOR TO ROUGH-IN. COORDINATE WITH DIVISION 23 PRIOR TO INSTALL.
- E3 PROVIDE CONNECTION TO FREEZER AND COOLER SENSOR. WIRE INTO EXISTING HIGH AND LOW TEMP CONTROL ZONES/SPORTS WITHIN EXISTING FREEZER ALARM PANEL. VERIFY CONNECTIONS WITH OWNER PRIOR TO ROUGH-IN.
- L1 ALL NEW LIGHTING LUMINAIRES TO BE CONNECTED TO EXISTING CIRCUITS
- L2 FREEZER/COOLER LUMINAIRES PROVIDED BY KITCHEN CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.



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