

**COORDINATING PROFESSIONAL**

I, GREG STIEREN, AM THE COORDINATING PROFESSIONAL ON THE CUBBY'S RENOVATION - FREMONT PROJECT.



# CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

BCDM NO: 5459-00



**PROJECT TEAM**

**OWNER:**  
Cubby's Inc.  
9220 Mormon Bridge Plaza  
Omaha, NE 68152  
Phone: (402) 453-1103

**ARCHITECT:**  
BCDM Architects  
1015 North 98th Street, Suite 300  
Omaha, NE 68114  
Phone: (402) 391-2211  
Fax (402) 391-8721

**CONSTRUCTION MANAGER:**  
Lund-Ross Constructors  
4601 F Street  
Omaha, NE 68117  
Phone: (402) 342-2810

**MECHANICAL AND ELECTRICAL ENGINEER:**  
Morrissey Engineering Inc.  
4940 N 118th St.  
Omaha, NE 68164  
Phone: (402) 491-4144

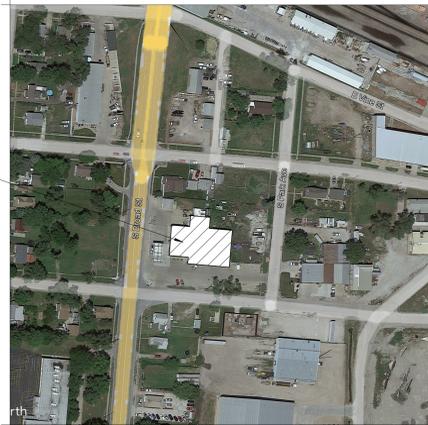
**STRUCTURAL ENGINEER:**  
BCDM Architects  
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Omaha, NE 68114  
Phone: (402) 391-2211  
Fax (402) 391-8721

**CODES:**

2018 International Building Code  
2018 Uniform Plumbing Code  
2018 Uniform Mechanical Code  
2017 National Electrical Code  
2018 International Fire Code  
2012 NFPA 101 Life Safety Code  
2018 International Energy Conservation Code  
2010 ADA Standards for Accessible Design  
ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities  
Nebraska Accessibility Guidelines (NAG)  
2018 International Existing Building Code

**PROJECT ADDRESS:**  
450 SOUTH BROAD STREET,  
FREMONT, NE 68025

PROJECT LOCATION



**VICINITY MAP**  
NOT TO SCALE

## SCHEDULE OF DRAWINGS

**GENERAL**

- G0-0 COVER SHEET
- G0-1 CODE REVIEW PLAN
- G1-0 EXISTING SITE SURVEY
- G1-1 STRIPING PLAN

**ARCHITECTURAL**

- A0-0 ARCHITECTURAL NOTES
- PLANS**
- AD1-1 DEMOLITION PLAN
- A1-1 FLOOR PLAN
- A1-2 ROOF PLAN
- A1-3 PLAN DETAILS

**EXTERIOR ELEVATIONS**

- A2-1 EXTERIOR ELEVATIONS

**BUILDING CROSS SECTIONS**

- A3-1 SECTIONS

**DOORS AND WINDOWS**

- A4-1 DOORS AND WINDOWS

**REFLECTED CEILING PLANS**

- A5-1 REFLECTED CEILING PLAN

**INTERIOR FINISHES**

- A6-1 INTERIOR FINISH PLAN
- A6-2 INTERIOR ELEVATIONS

**STRUCTURAL**

- S0-0 GENERAL STRUCTURAL NOTES
- S1-0 FOUNDATION PLAN
- S1-2 FRAMING PLAN
- S4-1 STEEL DETAILS

**MECHANICAL / PLUMBING**

- M0-0 MECHANICAL COVER SHEET
- MD1-1 FLOOR PLAN - MECHANICAL DEMOLITION
- M1-1 FLOOR PLAN - HVAC
- M1-2 ROOF PLAN - MECHANICAL
- M2-0 FLOOR PLAN - UNDERGROUND PLUMBING
- M2-1 FLOOR PLAN - PLUMBING
- M3-1 WASTE AND VENT RISER DIAGRAM
- M4-1 MECHANICAL DETAILS
- M4-2 MECHANICAL DETAILS
- M5-1 MECHANICAL SCHEDULES
- M5-2 PLUMBING FIXTURE SCHEDULE
- M6-1 SUPPLEMENTAL MECHANICAL DRAWINGS
- M6-2 SUPPLEMENTAL MECHANICAL DRAWINGS
- M6-3 SUPPLEMENTAL MECHANICAL DRAWINGS

**ELECTRICAL**

- E0-0 ELECTRICAL COVER SHEET
- ED1-1 FLOOR PLAN - ELECTRICAL DEMOLITION
- E1-1 FLOOR PLAN - LIGHTING
- E2-1 FLOOR PLAN - POWER
- E2-2 ROOF PLAN - POWER
- E3-1 ELECTRICAL SCHEDULES

**PROJECT TEAM**

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**MECHANICAL + ELECTRICAL ENGINEER**  
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4940 N 118th St.  
Omaha, NE 68164



REVISION SCHEDULE

#	Description	Date

**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

COVER SHEET

**GO-0**

CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023



**CODE REVIEW LEGEND:**

----- ONE HOUR FIRE WALL PER IBC  
705 FIRE DOOR AND FIRE SHUTTER ASSEMBLY IN THESE WALLS TO BE RATED PER IBC 715.

◀ EXIT

◀ EXIT - DIRECT EXITING TO EXTERIOR

**CODE REVIEW ANALYSIS**

**APPLICABLE CODES:**  
2018 International Building Code  
2018 Uniform Plumbing Code  
2018 Uniform Mechanical Code  
2017 National Electrical Code  
2018 International Fire Code  
2012 NFPA 101 Life Safety Code  
2018 International Energy Conservation Code  
2010 ADA Standards for Accessible Design  
ICC/ANSI A117-1 Accessible and Usable Buildings and Facilities  
Nebraska Accessibility Guidelines (NAG)  
2018 International Existing Building Code

**TYPE OF CONSTRUCTION:**  
EXISTING CONSTRUCTION, TYPE 'V-B'

**USE & OCCUPANCY CLASSIFICATION:**  
'M' OCCUPANCY  
13,307 SQUARE FEET TOTAL

**STRUCTURAL FIRE PROTECTION:**  
CONSTRUCTION CLASSIFICATION - 'V-B' (TABLE 601)  
RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)

STRUCTURAL FRAME	0 HOURS
BEARING WALLS EXTERIOR	0 HOURS
BEARING WALLS INTERIOR	0 HOURS
NON-BEARING WALLS EXTERIOR	0 HOURS
NON-BEARING WALLS INTERIOR	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION	0 HOURS
EXTERIOR OPENINGS	0 HOURS*

\* (TABLE 602)

**PASSIVE AND ACTIVE FIRE SAFETY FEATURES:**  
PASSIVE FIRE SAFETY FEATURES  
CORRIDORS ARE REQUIRED TO BE RATED (PER TABLE 1020.1); NOT APPLICABLE - THIS PROJECT DOES NOT HAVE CORRIDORS  
AUTOMATIC SPRINKLER SYSTEMS  
NOT APPLICABLE ACCORDING TO SECTION 37.3.5.1 IN 2012 NFPA 101 LIFE SAFETY  
FIRE EXTINGUISHERS - F.E. (INTERNATIONAL FIRE CODE)  
MAXIMUM DISTANCE TO FIRE EXTINGUISHER = 75'-0"  
FIRE ALARM & DETECTION SYSTEMS  
PER 2018 INTERNATIONAL FIRE CODE SECTION 907.2.3

**ALTERATIONS LEGEND**

ENTIRE BUILDING WILL RECEIVE NEW MECHANICAL VENTILATION  
ENTIRE BUILDING WILL RECEIVE NEW ELECTRICAL EQUIPMENT AND FIXTURES

NEW FLOOR, WALL AND CEILING FINISHES. WILL COMPLY WITH SECTIONS 702, 802 AND 903, 2018 IBC.

ROOFTOP MECHANICAL WORK ABOVE TO COMPLY WITH SECTIONS 706 AND 906, 2018 IBC. SEE SHEET S1-2 - FRAMING PLAN FOR REINFORCING WORK TO OCCUR.

**2018 INTERNATIONAL EXISTING BUILDING CODE**

**TYPE OF ALTERATION**  
EXISTING CONSTRUCTION, ALTERATION LEVEL 3  
ALL WORK TO COMPLY WITH CHAPTERS 7, 8 & 9 OF 2018 IBC

**SPECIAL USE AND OCCUPANCY** - NO CHANGES TO OCCUPANCY OR USE

**BUILDING ELEMENTS AND MATERIALS**  
THE BUILDING IS TO RECEIVE NEW FINISHES THROUGHOUT, REFERENCE DETAIL 1/60-1 - CODE REVIEW PLAN, THIS SHEET.

ALL NEW BUILDING ELEMENTS AND MATERIALS TO COMPLY WITH CHAPTER 8 OF 2018 INTERNATIONAL BUILDING CODE AND SECTIONS 702, 802 AND 903, 2018 IBC.

**FIRE PROTECTION**  
NOT APPLICABLE TO EXISTING 'M' OCCUPANCY UNDER 15,000 SF ACCORDING TO NFPA 2012 SECTION 37.3.5.1.

**CARBON MONOXIDE DETECTION**  
NOT APPLICABLE TO 'M' OCCUPANCY

**MEANS OF EGRESS**  
THE BUILDING'S EXISTING MEANS OF EGRESS WILL NOT BE REDUCED AND WILL COMPLY WITH SECTIONS 704, 805 AND 905, 2018 IBC.

**ROOFING**  
THE BUILDING'S EXISTING ROOFING WILL BE MAINTAINED. PATCHING AND NECESSARY REPAIR WILL OCCUR DUE TO ROOFTOP MECHANICAL WORK AND WILL COMPLY WITH SECTION 705, 2018 IBC.

**STRUCTURAL**  
ALTERED GRAVITY LOADS DUE TO ROOFTOP AIR HANDLER REPLACEMENT WILL COMPLY WITH SECTIONS 706, 806 AND 906, 2018 IBC. SEE SHEET S1-2 - FRAMING PLAN FOR REINFORCING TO OCCUR.

**ELECTRICAL**  
THE BUILDING WILL RECEIVE NEW FIXTURES AND EQUIPMENT AND COMPLY WITH NFPA 70 AND SECTION 907, 2018 IBC.

**MECHANICAL**  
THE BUILDING'S RECONFIGURED SPACES WILL RECEIVE MECHANICAL VENTILATION AND COMPLY WITH 2018 UNIFORM MECHANICAL CODE AND SECTION 808, 2018 IBC.

**PLUMBING**  
THE BUILDING'S OCCUPANCY WILL NOT BE INCREASED BY MORE THAN 20%, THEREFORE NOT REQUIRE ADDITIONAL FIXTURES PER SECTION 909, 2018 IBC.  
FIXTURE COUNTS WILL COMPLY WITH 2018 UNIFORM PLUMBING CODE.

**ENERGY CONSERVATION**  
THE BUILDING WILL COMPLY WITH 2018 INTERNATIONAL ENERGY CONSERVATION CODE AND SECTIONS 707, 807, 810 AND 907, 2018 IBC.

**EXITING & PLUMBING FIXTURE CALCULATIONS**

**BASE HEIGHTS AND AREAS:**  
**BASE ALLOWABLE HEIGHT & AREAS (TABLE 504.3)**  
TYPE 'V-B' CONSTRUCTION:  
**HEIGHT MODIFICATIONS:**  
MAXIMUM BUILDING HEIGHT IS 40' x 26' - 3" ACTUAL HEIGHT  
**AREA MODIFICATIONS:**  
BASE ALLOWABLE AREA FOR 'M' OCCUPANCY IN TYPE 'V-B' CONSTRUCTION IS 9,000 SF.  
FRONTAGE INCREASE (EQUATION 5-1, 506.2)  
If = (F)(P)(25) X W(30)  
F = 558' 10"  
P = 579' 4"  
W = 30  
If = 96

MAXIMUM AREA PER STORY = 9,000 + (9,000 X .96) = 17,640 SF  
MAXIMUM AREA PER STORY = 17,640 SF x 13,307 SF ACTUAL AREA

**EXITING ANALYSIS OF NEW CONSTRUCTION FLOOR 01:**  
OCCUPANT LOAD (PER TABLE 1004.1.2 AND 1004.5) = 154 OCCUPANT MAXIMUM  
EXIT WIDTH REQUIRED (PER SECTION 1005.3.2) = 154 x 2' = 30.8'  
CORRIDOR WALLS ARE REQUIRED TO BE RATED (PER TABLE 1020.1); NOT APPLICABLE - THIS PROJECT DOES NOT HAVE CORRIDORS  
NUMBER OF EXITS REQUIRED (PER TABLE 1006.3.2) = 2 EXITS REQUIRED < 3 EXITS PROVIDED  
MAXIMUM COMMON PATH OF TRAVEL ALLOWED (PER TABLE 1006.2.1) = 75'-0" ALLOWED > 54'-0" PROVIDED  
MAXIMUM EXIT DISTANCE ALLOWED (PER LIFE SAFETY SECTION 37.2.6.2) = 150' ALLOWED > 134'-3" PROVIDED  
MAXIMUM DEAD END DISTANCE = 20'-0" ALLOWED > 16'-9" PROVIDED

**PLUMBING FIXTURE COUNT CALCULATIONS:**  
**TOTAL NUMBER OF OCCUPANTS AT ALL AREAS = 154 OCCUPANTS**  
154 / 2 = 77 EACH MALE AND FEMALE

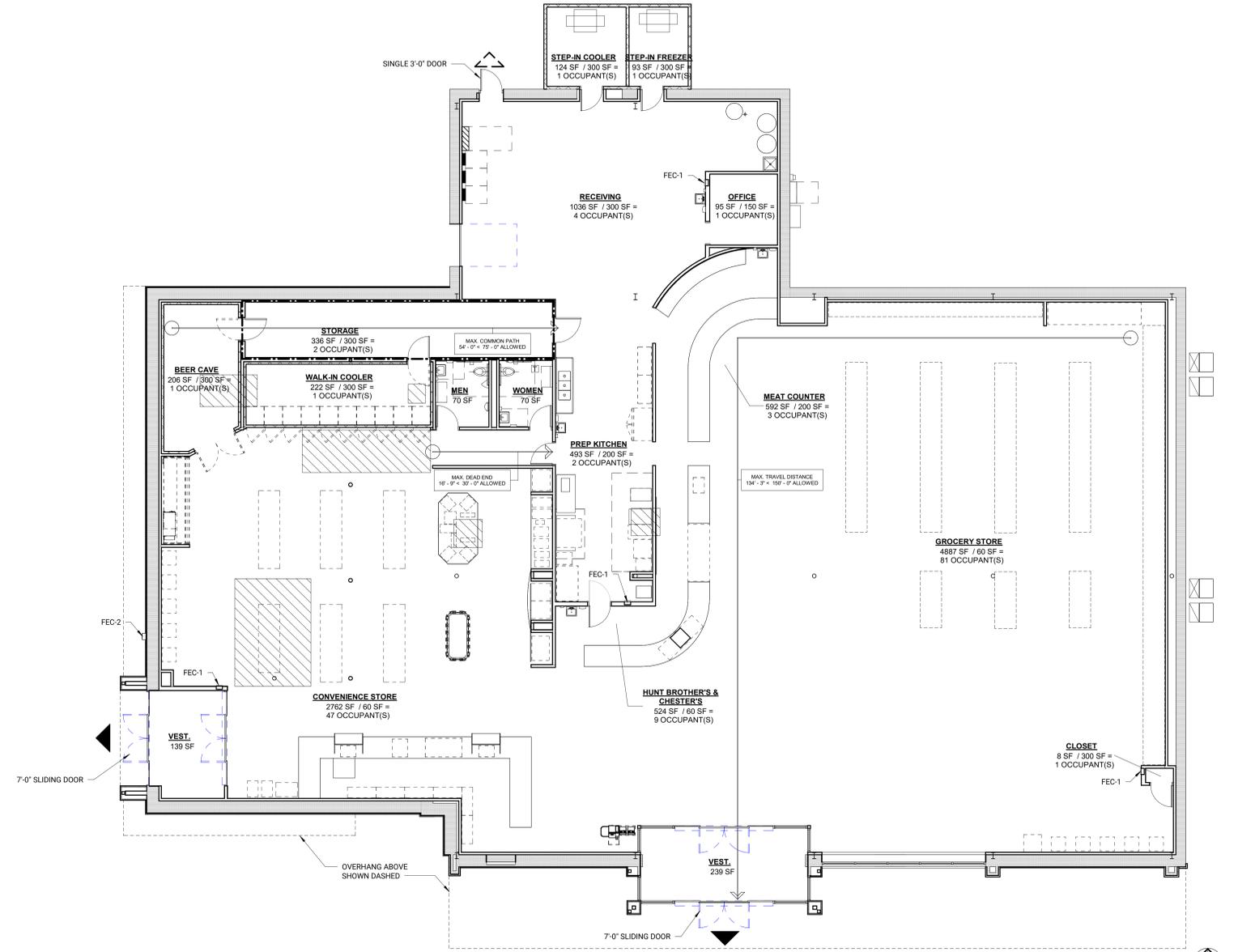
**PLUMBING FIXTURE REQUIREMENTS FOR 'M' OCCUPANCY**  
(PER 2018 UNIFORM PLUMBING CODE, TABLE 403.1)

FIXTURES REQUIRED	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
(QTY) MEN (QTY) WOMEN GENERAL	1 (1 PER 100) 1 (1 PER 100) --	1 (1 PER 200) 1 (1 PER 200) --	-- -- 1 PER 250*	-- -- 1

FIXTURES PROVIDED	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
(QTY) MEN (QTY) WOMEN GENERAL	1 (1 PER 100) 1 (1 PER 100) --	1 (1 PER 200) 1 (1 PER 200) --	-- -- 0*	-- -- 1

\*PER PHONE CALL WITH MARK BIRD AT THE CITY OF FREMONT ON 01/10/2023, A DRINKING FOUNTAIN IS NOT REQUIRED WITH NO CHANGE TO THE OCCUPANCY TYPE OR OCCUPANCY LOAD OF THE BUILDING (1009 EXISTING BUILDING CODE).

ENTIRE BUILDING REMAINS AS MERCANTILE, AS FOOD AREA IS LESS THAN 750 SF (303.1.2 IBC)



1 CODE REVIEW PLAN  
1/8" = 1'-0" 0' 1' 8' 16'



**PROJECT TEAM**

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4940 N 118th St  
Omaha, NE 68154



**REVISION SCHEDULE**

#	Description	Date
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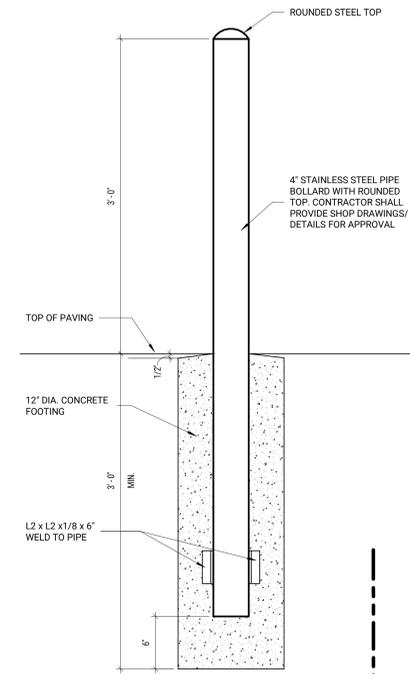
**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

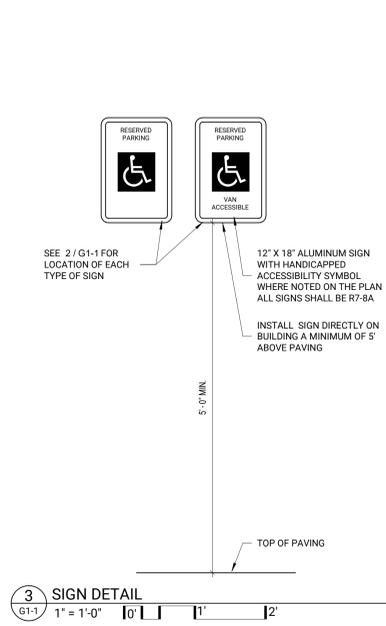
CUBBY'S INC.

**CODE REVIEW PLAN**

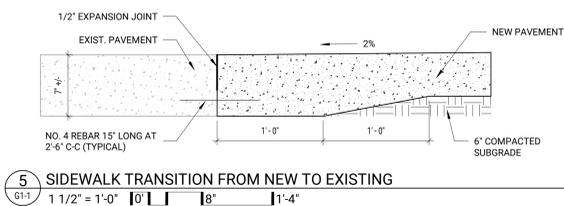




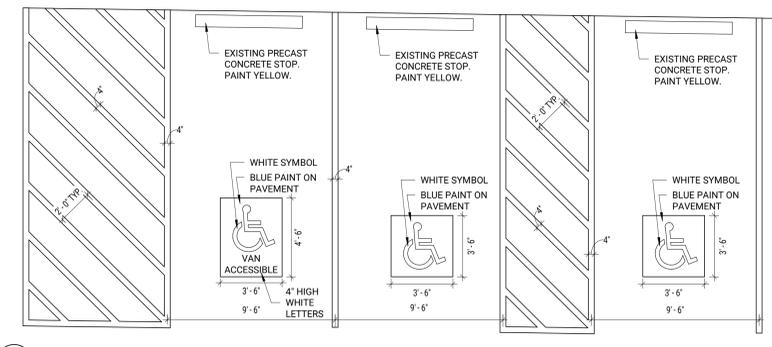
**4 STAINLESS STEEL BOLLARD DETAIL**  
 1 1/2" = 1'-0" | 0' | 4' | 8'



**3 SIGN DETAIL**  
 1" = 1'-0" | 0' | 1' | 2'



**5 SIDEWALK TRANSITION FROM NEW TO EXISTING**  
 1 1/2" = 1'-0" | 0' | 8' | 1'-4"



**2 TYPICAL HANDICAP STRIPING DETAILS**  
 1/4" = 1'-0" | 0' | 4' | 8'

PARKING CALCULATIONS	
FREMONT MUNICIPAL CODE	
TABLE 11-803.02.03 PARKING FOR COMMERCIAL USES:	
COMMERCIAL USE:	REQUIRED OFF-STREET PARKING SPACES:
GENERAL MERCHANDISE RETAIL SALES ESTABLISHMENT	1 SPACE PER 200 SF OF PFA*
PARKING CALCULATIONS	13,400 SF / 2 = 6,700 SF 6,700 SF / 200 = 33.5 SPACES <b>34 REQUIRED PARKING SPACES</b>
*PFA = PER SQUARE FOOT OF PARKING FLOOR AREA (50% OF THE GROSS FLOOR AREA)	
TABLE 11-803.03 ACCESSIBLE PARKING REQUIREMENTS	
NUMBER OF REQUIRED PARKING SPACES:	NUMBER OF ACCESSIBLE SPACES:
26-50 SPACES	<b>2 SPACES</b>
TABLE 11-804.02 PARKING MODULE DIMENSIONS	
PARKING ANGLE: 90 DEGREE	
STALL DIMENSIONS: 9'-0" MIN X 18'-0" WITH A 24'-0" TWO-WAY AISLE	
	ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.
<b>Know what's below. Call before you dig.</b>	

**WATER KEYNOTES**

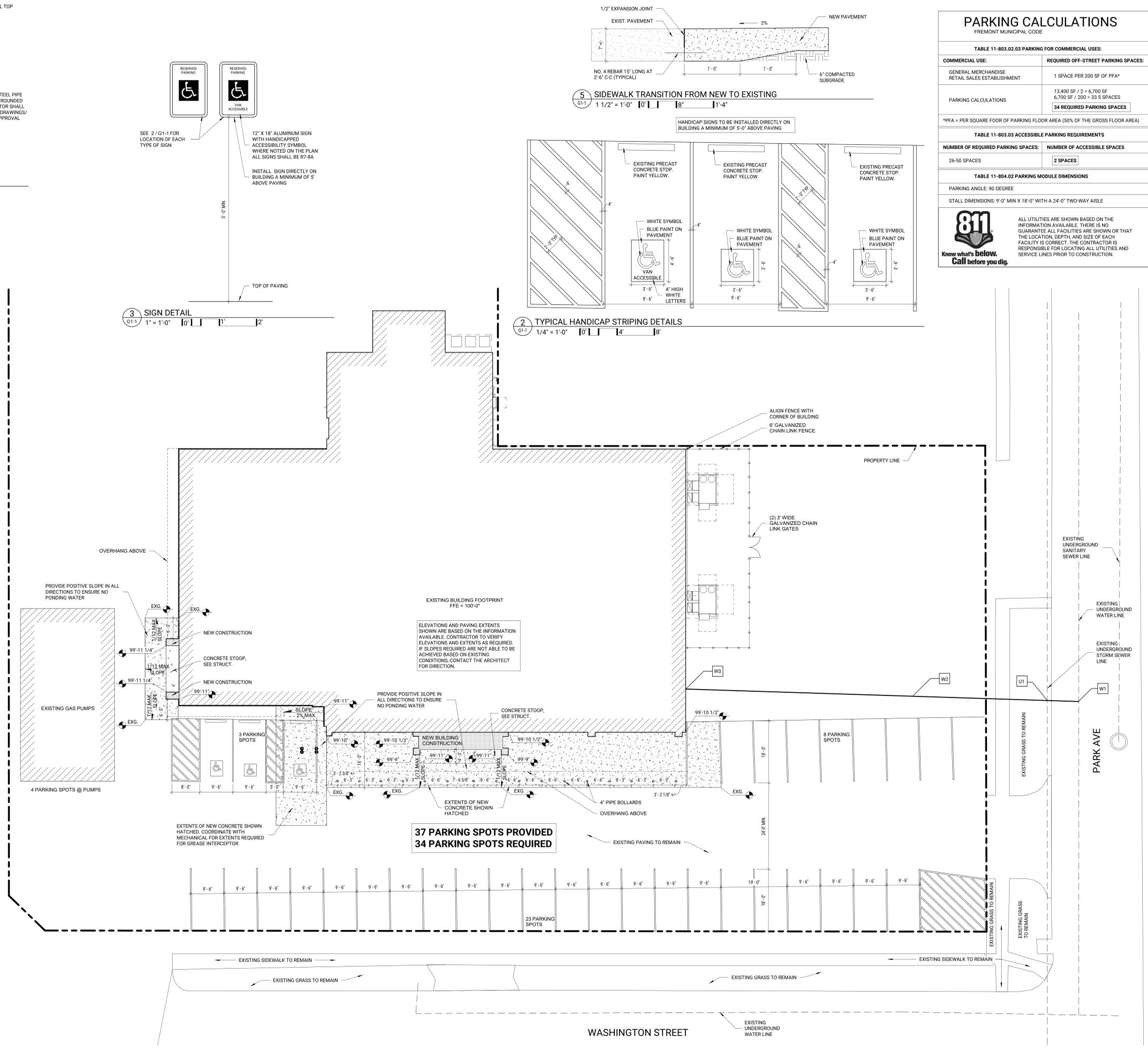
- W1. CONSTRUCT TAP INTO EXISTING WATER MAIN AND CONSTRUCT GATE VALVE WITH ALL NECESSARY CONNECTION, BENDS, CONCRETE BACKING BLOCK AND OTHER APPURTENANCES.
- W2. CONSTRUCT ± 112 LF OF 1" WATER LINE WITH ALL NECESSARY CONNECTIONS, BENDS, CONCRETE BACKING BLOCKS AND OTHER APPURTENANCES. PROVIDE 5" MINIMUM COVER.
- W3. BUILDING CONNECTION, COORDINATE EXACT LOCATION AND ELEVATION WITH MECHANICAL PLANS.

**UTILITY KEYNOTES**

- U1. UTILITY CROSSING, CONTRACTOR SHALL FIELD VERIFY THE ELEVATION AND LOCATION OF UTILITY CROSSING. CONTRACTOR SHALL COORDINATE ANY VARIANCE REQUIRED TO PROPOSED UTILITIES WITH ARCHITECT PRIOR TO PROCEEDING WITH SEWER CONSTRUCTION.

**WATER MAIN NOTES**

- 1. THE CONTRACTOR SHALL CONSTRUCT WATER SERVICE FROM EXISTING MAINS TO THE BUILDING. CONTRACTOR SHALL VERIFY BUILDING CONNECTION LOCATIONS IN ARCHITECTURAL PLANS.
- 2. THE CONTRACTOR SHALL PROVIDE VALVE BOX AND WATER METER.
- 3. CALL THE CITY OF FREMONT (KEITH KONTOR) (402) 720-7098 FOR FURTHER DETAILS.
- 4. ALL WATER LINES SHALL HAVE 5" MINIMUM COVER.
- 5. CONSTRUCT WATER SERVICE PER THE FREMONT DEPARTMENT OF UTILITIES' STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION', 2014 EDITION.
- 6. WATER MAIN SHALL CONFORM TO THE REQUIREMENTS OF THE FREMONT DEPARTMENT OF UTILITIES' STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION', 2014 EDITION.
- 7. ALL WATER SERVICE MUST BE INSTALLED BY A LICENSED PLUMBER.
- 8. CONTRACTOR WILL COORDINATE WITH OWNER PRIOR TO HIS BID TO DETERMINE WHO PAYS TAPPING FEES, COST OF WATER METER, COST OF ASSOCIATED PERMITS, AND CAPITAL FACILITIES CHARGE.



**1 STRIPING PLAN**  
 3/32" = 1'-0" | 0' | 10'-8" | 21'-4"

**PROJECT TEAM**

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**STRUCTURAL ENGINEER**  
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CUBBY'S INC.

**STRIPING PLAN**

**G1-1**



DEMOLITION FLAG NOTES

FLAG NOTES APPLICABLE TO SHEET AD1-1 ONLY

- 1 REMOVE WINDOW, FRAME, AND ASSOCIATED HARDWARE IN ITS ENTIRETY. PATCH EXISTING SURFACE AS NECESSARY TO MATCH ADJACENT EXISTING CONDITION.
- 2 REMOVE DOOR, FRAME, AND ASSOCIATED HARDWARE IN THEIR ENTIRETY. PATCHED DISTURBED AREAS AS REQUIRED TO MATCH EXISTING ADJACENT CONDITION.
- 3 REMOVE WALL IN ITS ENTIRETY. PATCH DISTURBED AREAS AS REQUIRED. COORDINATE EXTENTS OF REMOVAL WITH ARCHITECTURAL FLOOR PLANS. **PROVIDE SHORING AS REQUIRED WHERE OPENINGS ARE CREATED.**
- 4 REMOVE CASEWORK AND/OR COUNTERTOP IN ITS ENTIRETY. PATCH WALL AND FLOOR AS REQUIRED.
- 5 REMOVE ACOUSTIC TILE CEILING AND ASSOCIATED GRID IN ITS ENTIRETY. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 REMOVE VINYL FLOORING AND PREP FOR NEW FLOORING.
- 7 IN AREAS SHOWN HATCHED [diagonal lines] REMOVE ALL PLUMBING FIXTURES, FLOOR AND VINYL BASE, AND ACCESSORIES IN THEIR ENTIRETY IN RESTROOMS. REMOVE WALLS AND DOORS AS SHOWN DASHED IN RESTROOMS AS REQUIRED FOR NEW CONSTRUCTION. **REMOVE AND REPLACE CONCRETE SLAB AS REQUIRED.** COORDINATE WITH MECHANICAL. PREP FOR NEW FLOORING.
- 8 DEMO CONCRETE AND PREP FOR NEW CONCRETE STOOP AND WALKS AS SHOWN ON C1-1. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- 9 REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING IN THEIR ENTIRETY. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
- 10 REMOVE METAL LIGHT BULKHEAD IN ITS ENTIRETY.
- 11 REMOVE DOOR, FRAME, AND ASSOCIATED HARDWARE IN ITS ENTIRETY. PREP FOR NEW DOOR.
- 12 REMOVE OVERHEAD SECTIONAL DOOR. PREP FOR NEW DOOR.
- 13 REMOVE ELEVATED PLATFORM AND STAIRS. COORDINATE LOCATION WITH ARCHITECTURAL FLOOR PLANS.
- 14 REMOVE GWB CEILING AND ASSOCIATED FRAMING IN THEIR ENTIRETY.
- 15 DEMO CONCRETE IF REQUIRED FOR STRUCTURAL STOOP. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- 16 REMOVE WALK-IN COOLER AND DOORS IN THEIR ENTIRETY.
- 17 IN AREAS SHOWN HATCHED [diagonal lines] **REMOVE AND REPLACE CONCRETE SLAB AS REQUIRED.** COORDINATE EXTENTS WITH MECHANICAL.
- 18 REMOVE EXISTING EXTERIOR FIRE EXTINGUISHER CABINET. SALVAGE FIRE EXTINGUISHER FOR REUSE IN NEW FEC-2 CABINET.
- 19 GAS SHUT OFF ADJUSTED AS REQUIRED FOR NEW CLADDING BY OWNER PROVIDED GAS CONSULTANT.
- 20 REMOVE CARPET FLOORING AND VINYL BASE IN ITS ENTIRETY & PREP FOR NEW FLOORING.
- 21 REMOVE VCT AND VINYL BASE IN ITS ENTIRETY & PREP FOR NEW FLOORING.
- 22 REMOVE GWB BULKHEAD IN ITS ENTIRETY AND PREP FOR NEW CEILING.
- 23 REMOVE EXISTING SHELVING.
- 24 REMOVE EXISTING CHECKOUTS AND PATCH FLOOR AS REQUIRED.
- 25 IN AREAS SHOWN HATCHED [diagonal lines] **REMOVE AND REPLACE CONCRETE SLAB AND PREP FOR NEW STRUCTURAL STOOPS AND PAVEMENT.** COORDINATE EXTENTS WITH STRUCTURAL, MECHANICAL, AND SHEET G1-1, AND OWNER PROVIDED GAS CONSULTANT.
- 26 REMOVE EXISTING CONVENIENCE CHECKOUT. PATCH FLOOR AS REQUIRED.
- 27 REMOVE EXISTING ICE MACHINE.
- 28 REMOVE EXISTING COOLER.
- 29 REMOVE EXISTING COUNTER.
- 30 REMOVE EXISTING CARD STAND.
- 31 REMOVE UPPER CABINET IN ITS ENTIRETY. PATCH WALL AND FLOOR AS REQUIRED.
- 32 REMOVE EXISTING PALLETS.
- 33 REMOVE GWB IN DAMAGED AREAS.
- 34 METAL FASCIA TO REMAIN.
- 35 REMOVE EXISTING BIKE RACKS.
- 36 REMOVE WALL BELOW FRAME. PATCH DISTURBED AREAS AS REQUIRED. COORDINATE EXTENTS OF REMOVAL WITH ARCHITECTURAL FLOOR PLANS.
- 37 REMOVE EXISTING SIGNAGE OVERHANG IN ITS ENTIRETY. PATCH DISTURBED AREAS AS REQUIRED.
- 38 REMOVE EXISTING SIGNAGE THIS WALL. PATCH DISTURBED AREAS AS REQUIRED.
- 39 REMOVE EXISTING MANSARD SHINGLES, METAL PANEL, SOFFITS, AND FASCIA AND PREP FOR NEW CLADDING AS REQUIRED. FIELD VERIFY EXISTING STRUCTURAL FRAMING.
- 40 REMOVE & REPLACE DAMAGED INSULATION.
- 41 BRICK SILL BELOW FRAME TO BE MADE FLUSH WITH THE BRICK WALL AS REQUIRED FOR NEW STONE MASONRY VENER.
- 42 DEMO LOWER PORTION OF EXISTING CMU WALL. COORDINATE EXTENTS WITH STRUCTURAL DRAWINGS 3,4,6/S4-1.

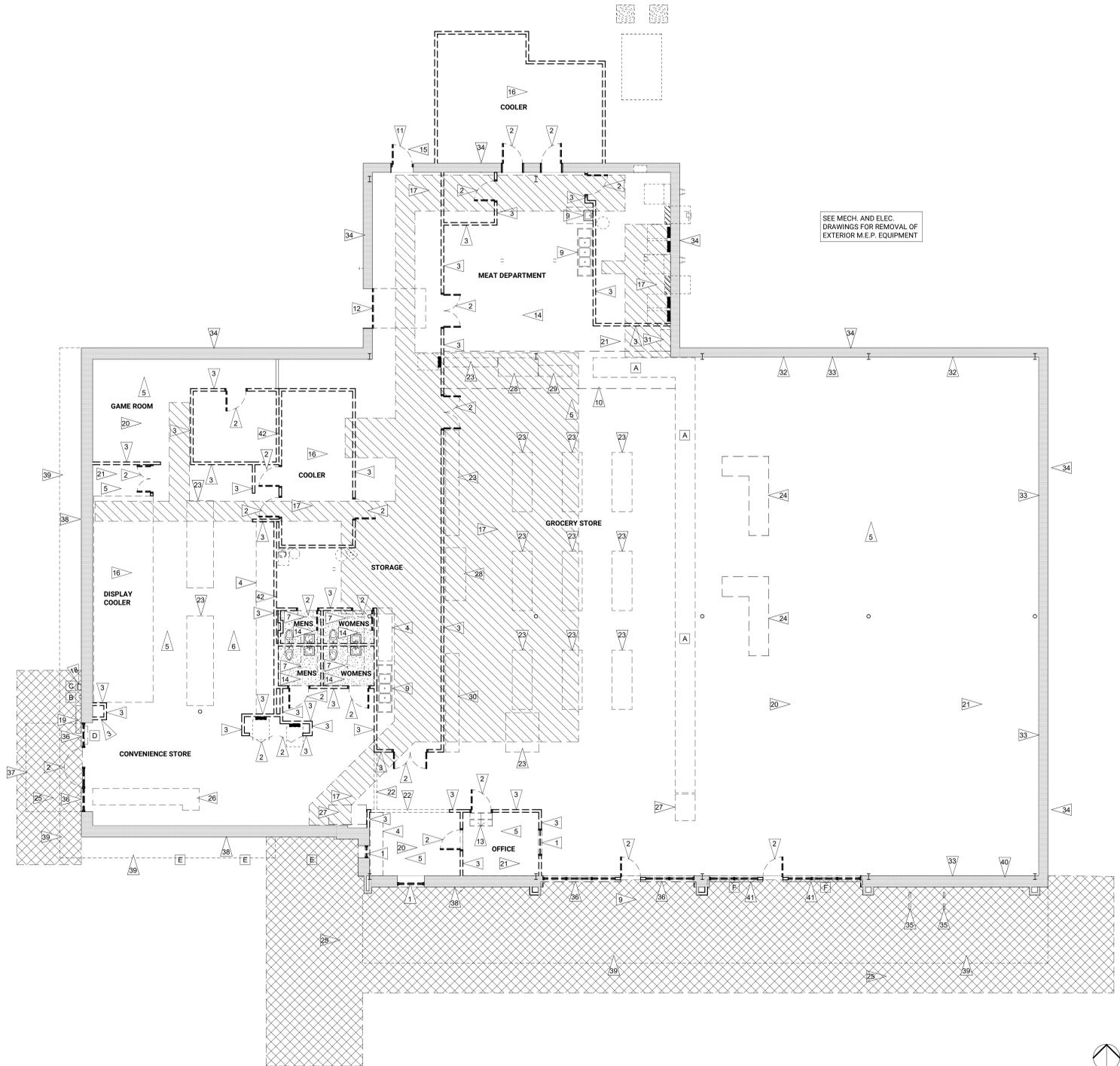
DEMOLITION SALVAGE NOTES

NOTES APPLY TO SHEETS AD1-1 ONLY. \* OWNER HAS FIRST RIGHTS TO ALL SALVAGED MATERIAL.

- A SALVAGE EXISTING COOLERS. RELOCATE AS SHOWN ON ARCHITECTURAL PLANS.
- B SALVAGE EXISTING KNOX BOX. RELOCATE AS SHOWN ON ARCHITECTURAL PLANS.
- C SALVAGE EXISTING EXTERIOR FIRE EXTINGUISHER. RELOCATE IN NEW FEC-2 AS SHOWN ON ARCHITECTURAL PLANS.
- D SALVAGE LOW VOLTAGE FUEL BOXES. RELOCATE AS SHOWN ON ARCHITECTURAL PLANS. COORDINATE WITH OWNER PROVIDED FUEL CONSULTANT.
- E SALVAGE PRECAST WHEEL STOPS. RELOCATE AS SHOWN ON ARCHITECTURAL PLANS.
- F WALL BELOW FRAME TO REMAIN. PROTECT WALL FROM DAMAGE.

DEMOLITION GENERAL NOTES

- 1. COORDINATE WITH MECHANICAL AND ELECTRICAL SHEETS FOR INFORMATION REGARDING NEW MECHANICAL, PLUMBING AND ELECTRICAL ITEMS THAT REQUIRE EXISTING FLOOR SLAB, CEILING AND WALL REMOVAL. ALSO SEE MECHANICAL AND ELECTRICAL SHEETS FOR REMOVAL OF ALL MECHANICAL, PLUMBING AND ELECTRICAL ITEMS. ALL PREVAILING CODE REQUIREMENTS.
- 2. DISCONNECT AND CAP ALL SERVICES (ELECTRICAL, MECHANICAL AND PLUMBING) IN EXISTING WALLS, FLOORS AND CEILINGS TO BE REMOVED.
- 3. THE OWNER SHALL HAVE THE FIRST RIGHT OF SALVAGE FOR ALL ITEMS BEING REMOVED OR DEMOLISHED. IF OWNER DECLINES THE TRADE CONTRACTOR SHALL REMOVE FROM THE PREMISE AND DISPOSE OF PROPERLY. VERIFY OWNER'S INTENT PRIOR TO REMOVAL OR DEMOLITION.
- 4. REMOVE ALL WALLS, DOORS, WINDOWS, AND OTHER ITEMS SHOWN DASHED IN THE DRAWINGS. VERIFY THE SCOPE OF DEMOLITION WITH THE NEW CONSTRUCTION DRAWINGS. TRADE CONTRACTOR SHALL REMOVE ANY WALL OR ITEM NOT SPECIFICALLY DESIGNATED OR NOTED THAT WOULD BE REQUIRED TO PROVIDE A FINISHED PRODUCT AS PER THE PLANS AND SPECIFICATIONS.
- 5. SEE DEMOLITION DRAWINGS FOR SALVAGE ITEMS.
- 6. PATCH FLOOR IN AREAS OF DEMOLITION TO ACHIEVE A SMOOTH SURFACE FOR NEW FLOORING AND WALLS AS REQUIRED TO RECEIVE NEW FLOOR FINISHES INDICATED ON THE ROOM FINISH SCHEDULE. FLOOR DEVIATIONS OVER 1/8" PER 5 FEET SHALL BE GROUND OUT OR FILLED TO ACHIEVE UNIFORM TRANSITION.
- 7. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO ITS ORIGINAL CONDITION AT OWN EXPENSE.
- 8. ALL WALLS INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL ELECTRICAL OUTLETS, SWITCHES, AND CONDUITS, TELEPHONE OUTLETS, WIRING, MECHANICAL PIPING, BASES AND PLUMBING, ETC.
- 9. COORDINATE ALL DEMOLITION WORK BETWEEN ALL TRADES.
- 10. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING BEFORE PROCEEDING.
- 11. ALL INFORMATION SHOWN ON THE DEMOLITION PLAN, INCLUDING DOORS, WALLS, CHASES, EQUIPMENT, CEILINGS, ETC., ARE NOT INTENDED TO REPRESENT THE TOTAL SCOPE OF THE DEMOLITION CONTRACT. THE INTENT OF THESE DRAWINGS IS TO ASSIST THE CONSTRUCTION MANAGER WITH ESTIMATION ONLY WITHOUT LIMITING DEFINITIONS OF SCOPE. THE INTENT OF DEMOLITION IS TO COMPLETELY REMOVE ALL ITEMS, EXCEPT AS NOTED OTHERWISE, WITHIN THE CONTRACT AREA TO THE ORIGINAL STRUCTURE AS NECESSARY TO PREPARE FOR NEW CONSTRUCTION WORK SHOWN IN THESE CONTRACT DOCUMENTS.
- 12. AT AREAS WHERE FLOOR REMOVAL IS REQUIRED FOR INSTALLATION OF NEW FOOTINGS, PLUMBING, ELECTRICAL, DUCTWORK, ETC., EXISTING CONCRETE SLAB SHALL BE SAW CUT AT PERIMETER OF DEMO AREA AND REPLACED WITH 4-INCH GRANULAR FILL, 15 MIL VAPOR BARRIER AND 4-INCH CONCRETE WITH MESH.
- 13. COORDINATE REMOVAL OF ALL STRUCTURAL ITEMS WITH STRUCTURAL PLANS PRIOR TO DEMOLITION.
- 14. TRADE CONTRACTOR SHALL HAUL ALL DEMOLITION DEBRIS COMPLETELY AWAY FROM THE SITE AND DISPOSE OF PROPERLY.



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REVISION SCHEDULE

#	Description	Date

CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

DEMOLITION PLAN

AD1-1

CONSTRUCTION DOCUMENTS  
BODM NO. 5459-00  
01/27/2023

LEFT BINDING EDGE  
1/27/2023 2:59:08 PM

EQUIPMENT SCHEDULE - OWNER PROVIDED

ITEM	DESCRIPTION	MANUFACTURER	QUANTITY	MODEL	ELECTRICAL	AMPS	REMARKS
1	WALK-IN COOLER	KPS GLOBAL OR EQUAL	1		115/60/1	1	4" POLYURETHANE FILLED - 10' CEILING HEIGHT
2	WALK-IN COOLER CONDENSING UNIT	RUSSELL OR EQUAL	2				REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK
3	WALK-IN COOLER COIL FAN	RUSSELL OR EQUAL	2				FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY
4	WALK-IN COOLER REACH-IN DOORS	ANTHONY	10	#INFINITY 090	115/60/1	24	30" X 75" W/ESP SYSTEM, BLACK DOORS, FRAMES, POSTS & SHELVES
5	STORAGE RACKS	ISS OR EQUAL	21				GOLD BOND FINISH IN COOLERS - STAINLESS STEEL FINISH IN STORAGE
6	BEER CAVE	KPS GLOBAL OR EQUAL	1		115/60/1	1	4" POLYURETHANE FILLED - 9' CEILING HEIGHT
7	BEER CAVE CONDENSING UNIT	RUSSELL OR EQUAL	1				REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK
8	BEER CAVE COIL FAN	RUSSELL OR EQUAL	1				FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY
9	BEER CAVE PASS THRU DOORS	ANTHONY	2	#HD BEER CAVE DOORS	115/60/1	4	36" X 81" W/LED SYSTEM, BLACK DOORS & FRAMES
10	BEER CAVE HEAVY DUTY SHELVING	ADCO OR EQUAL	7				GOLD BOND FINISH - PER PLANS
11	STEP-IN FREEZER	KPS GLOBAL	1		115/60/1	1	4" POLYURETHANE FILLED - 9' CEILING HEIGHT
12	STEP-IN FREEZER CONDENSING UNIT	RUSSELL OR EQUAL	1				REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK
13	STEP-IN FREEZER COIL FAN	RUSSELL OR EQUAL	1				FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY
14	STEP-IN COOLER	KPS GLOBAL	1		115/60/1	1	4" POLYURETHANE FILLED - 9' CEILING HEIGHT
15	STEP-IN COOLER CONDENSING UNIT	RUSSELL OR EQUAL	1				REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK
16	STEP-IN COOLER COIL FAN	RUSSELL OR EQUAL	1				FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY
17	BEER CRAFT CASE	HILL PHOENIX	1	#05DM	VERIFY		BLACK INTERIOR AND EXTERIOR, PROVIDE DEDICATED CIRCUITS FOR OPEN CASE AND REMOTE REFRIGERATION; FINAL ENGINEERING BY OTHERS
18	ICE CREAM DISPLAY CASE	MASTER-BILT	1	#MSC-41AN	115/60/1	1.2	
19	LOTTO STAND		1				
20	ATM	TIDEL	1	#IS-2000	115/60/1	1	
21	CUP DISPENSER	DISPENSE-RITE	6				IN-WALL & CABINET
22	ICE AND POST MIX	CORNELIUS	2	#FLAVOR FUSION	120/60/1	10 EA.	WITH FLAVOR BURST
23	ICE MAKER	SCOTSMAN	2	#NI322R	VERIFY		CHEWBLET STYLE ICE; REMOTE REFRIGERATION; FINAL ENGINEERING BY OTHERS
24	CHESTERS & HUNT BROTHERS CASH REGISTER		1		VERIFY		CASH DRAWER, RECEIPT PRINTER, PINPAD, SCANNER, LED DISPLAY, MONITOR, CPU, PREPAID CARD TERMINAL AND MISC. BY OWNER
25	TEA BREWER	BUNN	2	#ITB-DBC DUAL DILUTION	120/60/1	14	
26	FROZEN UN-CARBONATED BEVERAGE	BUNN	2	#ULTRA 11	120/60/1	12	W/SWEETENER & TEA DISPENSER BY BUNN #TDO-N-3.5
27	DOMESTIC DISPENSER	DISPENSE-RITE	1				
28	FROZEN CARBONATED BEVERAGE	CORNELIUS	2	#VIPER 2	230/60/1		
29	FREAL MILKSHAKES	FREAL	1	#BLENDER	120/60/1	15	
30	GAMING MACHINES AND CHAIRS		10		VERIFY		
31	BEAN TO CUP	SCHAEFER	4	#COFFEE ARTS C	208/60/1	20	
32	LID AND CONDIMENT RACK	ROYSTON	1	#LID RACK			3'-0" UNIT
33	CONDIMENT & STRAWS		1				
34	CREAMER	CREAMISER	1	#600	120/60/1	20	
35	LID DISPENSER	DISPENSE-RITE	2				
36	HEATED MERCHANDISER	GILES	1	#GHM-8C	208-240/60/1	31.5/31.6	
37	60" PERGOLA CANOPY SHOPPE	FOOD CONCEPTS, INC	1				
38	REFRIGERATED OPEN CASE	FEDERAL INDUSTRIES	1	#MSS84SC-2	208-240/60/1	20	
39	SHELVING	ROYSTON, OPTO, OR EQUAL	6				GONDOLA AND WALL SHELVING, PER PLANS - SILVER FINISH
40	OIL MANAGEMENT SYSTEM		2				
41	TABLES	PLYMOLD	13	DUR-A-EDGE TABLE TOP WITH DINING HEIGHT TABLE BASES			LAMINATE TOP: #6698 PALOMA PEAR BY FORMICA
42	CHAIRS	PLYMOLD	32	QUEST LADDERBACK STEEL CHAIR WITH UPHOLSTERED SEAT			COLOR: #518800 TOMATO/PATTERN: COLORGUARD BY BOLTAFLX - OMNOVA SOLUTIONS
43	CASH REGISTER/ GAS CONSOLE		2		VERIFY		CASH DRAWER, RECEIPT PRINTER, PINPAD, SCANNER, LED DISPLAY, MONITOR, CPU, PREPAID CARD TERMINAL AND MISC. BY OWNER
44	CIGARETTE DISPLAY	IMAGEWORKS OR EQUAL	6	PER PLANS			4'-0"
45	ARMOR	#TACC-V	1		115/60/1		
46	HEATED MERCHANDISER	GILES	1	#GHM-6C	208-240/60/1	22.4	
47	WATER HEATER	TBD	1				BY GC
48	PORTABLE LANDING TABLE	GILES	2	#LT			
49	FRYER	VULCAN	2	#1VK65DF	GAS		GAS CONNECTION REQUIRED
50	FRY KETTLE	GILES	1	#GEF-720	208-240/60/3	58	
51	MULTI-COOK OVEN	ALTO-SHAAM	1	#VMC-H4	208-240/60/3	32-36	
52	COMMERCIAL REFRIGERATOR		1				
53	TWO SECTION FREEZER	DELFIELD	1	3367-JC456-0N-HB2	115/60/1	12	
54	CONVEYOR OVEN	TURBO CHIEF	1	#2620	208-240/60/1	48	
55	COUNTER SELF CHECKOUT		1				
56	VENT HOOD	CAPTIVE AIRE	2		VERIFY		
57	BUN PAN RACKS	NEW AGE INDUSTRIAL	1	#1361			
58	BREADING & BATTER TABLE	GILES	1	#BBT-O			
59	PREP TABLE	DELFIELD	1	#3339-4460N-12-HB6	115/60/1	9	
60	STAINLESS STEEL TABLE	ADVANCE TABCO	2				
61	BITCOIN ATM		1				
62	CASH REDEMPTION TERMINAL		1		120/60	6.50	
63	PIZZA WARMER	HATCO	1	GRPWSO-NEWDUO	120	14.3	
64	COUNTER TOP RETHERMALIZER	NEMCO	1	NEMCO 6055A	120V	10	
65	MEAT COUNTER		1				
66	MULTI-COOK OVEN STAND	ALTO-SHAAM	1	STAND 5034118			

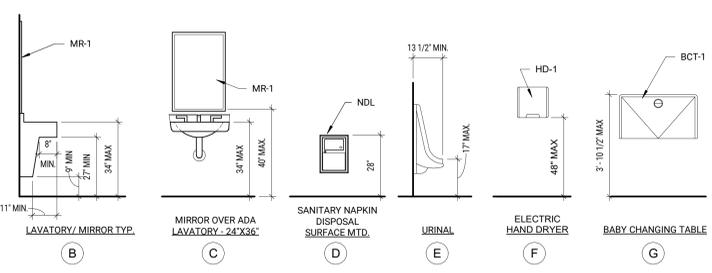
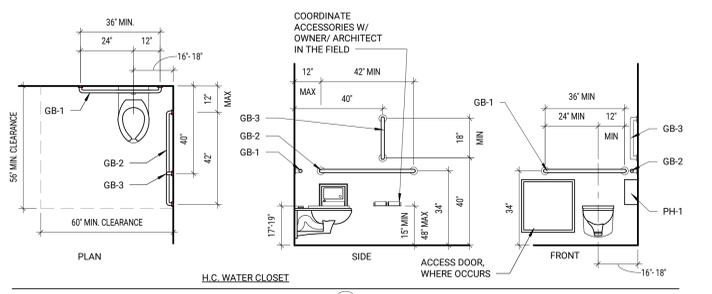
FLOOR PLAN GENERAL NOTES

- SEE DETAIL 2/A0-0 FOR TYPICAL GWB CONTROL JOINT LOCATIONS AT INTERIOR WALLS. SEE THE REFLECTED CEILING PLAN FOR ADDITIONAL CONTROL JOINT LOCATIONS.
- AT AREAS WHERE SLAB REMOVAL IS REQUIRED FOR INSTALLATION OF NEW FOOTINGS, PLUMBING, ELECTRICAL, DUCTWORK, ETC., EXISTING CONCRETE SLAB SHALL BE SAW CUT AT PERIMETER OF DEMO AREA AND REPLACES WITH 4-INCH GRANULAR FILL, 15 MIL VAPOR BARRIER AND 4-INCH CONCRETE WITH MESH.

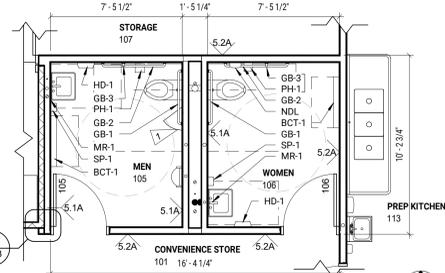
ARCHITECTURAL FLAG NOTES

FLAG NOTES APPLICABLE TO SHEET A1-1 ONLY.

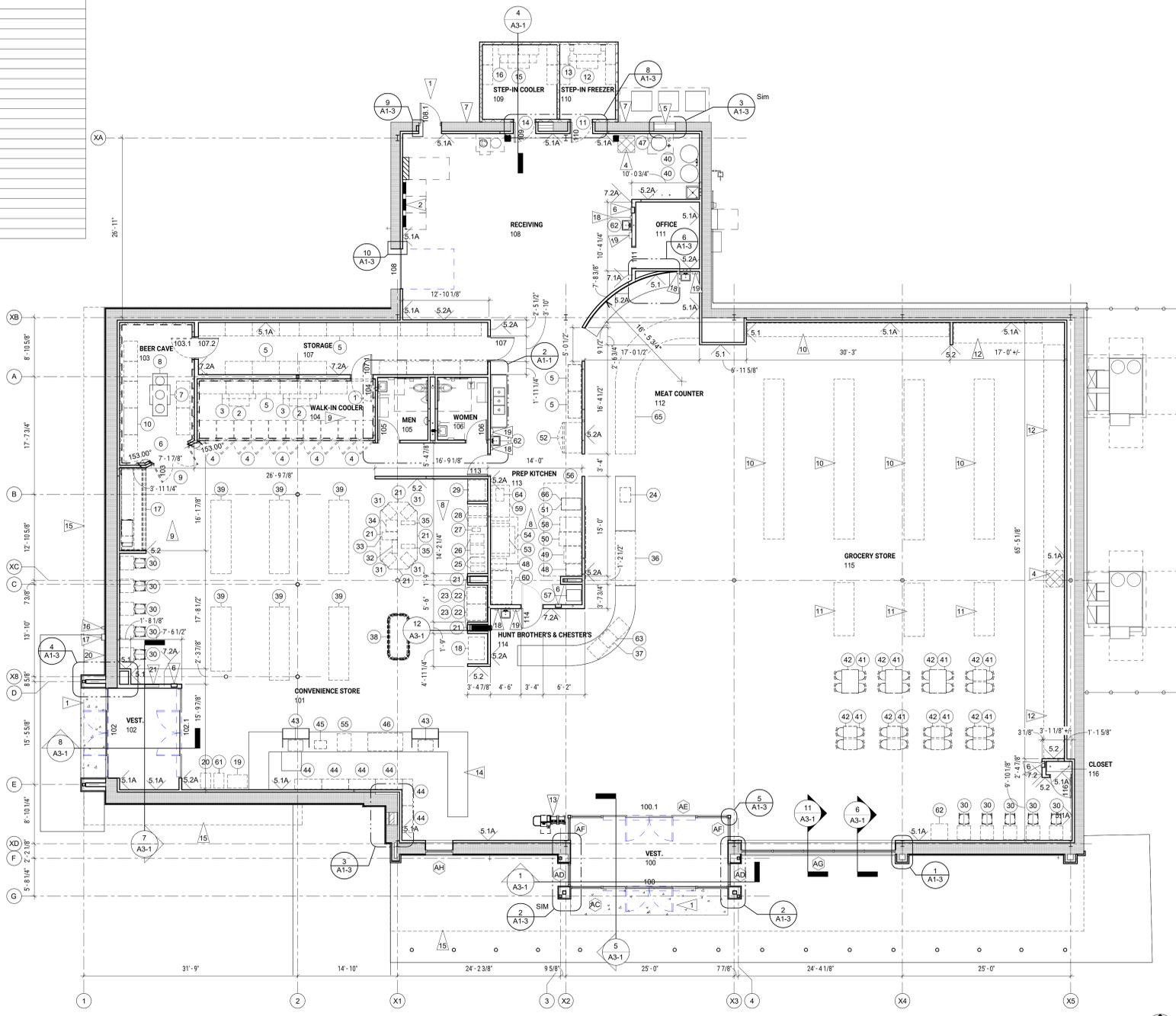
- STRUCTURAL STUOP, SEE STRUCT.
- ELECTRICAL PANEL, SEE ELEC.
- CONTRACTOR TO GRIND EXISTING CONCRETE FLOOR AND/ OR PROVIDE CONCRETE FLOOR UNDERLAYMENT AS REQUIRED TO PROVIDE A LEVEL FLOOR TO RECEIVE FLOOR FINISHED AT REMOVED WALL. MAXIMUM ACCEPTABLE VERTICAL IRREGULARITY SHALL BE 1/8" MEASURED OVER A 5'-0" TEMPLATE.
- PROTECT EXISTING ACCESS OPENING TO TUNNEL. INSTALL NEW ACCESS DOOR. SEE SPEC SECTION 08 31 00.
- LOCATION OF EXIST. MECHANICAL LOUVER THAT IS TO BE REMOVED. SEE 2/A1-3.
- FEC-1 SEE SPEC SECTION 10 44 00.
- AT REMOVED COOLER LOCATION, PATCH SIDING TO MATCH EXISTING PROFILE. PAINT P-6.
- EQUIPMENT N.I.C. AND PROVIDED BY OWNER. COORDINATE WITH MECHANICAL & ELECTRICAL FOR ASSOCIATED WORK.
- PATCH CONCRETE SLAB IF REQUIRED AT REMOVED COOLER LOCATIONS.
- FOOD SHELVING, N.I.C.
- DRY PRODUCE, N.I.C.
- SALVAGED COOLERS, N.I.C.
- SELF-CHECKOUT, N.I.C.
- CONVEYOR CHECK-OUT, N.I.C.
- LINE OF ROOF ABOVE.
- RELOCATED KNOX BOX.
- FEC-2 WITH EXISTING FIRE EXTINGUISHER. SEE SPEC SECTION 10 44 00.
- SOAP DISPENSER, SD-1. SEE SPEC SECTION 10 28 00.
- TOWEL DISPENSER, TD-1. SEE SPEC SECTION 10 28 00.
- GAS SHUT OFF ADJUSTED AS REQUIRED FOR NEW CLADDING BY OWNER PROVIDED GAS CONSULTANT.
- RELOCATED LOW VOLTAGE FUEL BOXES. COORDINATE WITH OWNER PROVIDED GAS CONSULTANT.



3 FIXTURE MOUNTING HEIGHT  
A1-1 3/8" = 1'-0" 0' 1' 2'-8" 5'-4"



2 ENLARGED RESTROOM PLAN  
A1-1 1/4" = 1'-0" 0' 1' 4' 8'



1 FLOOR PLAN - MAIN LEVEL  
A1-1 1/8" = 1'-0" 0' 1' 8' 16'



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REVISION SCHEDULE

#	Description	Date

CUBBY'S RENOVATION - FREMONT

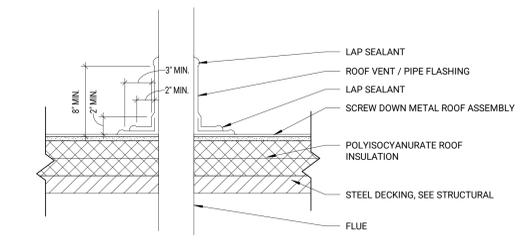
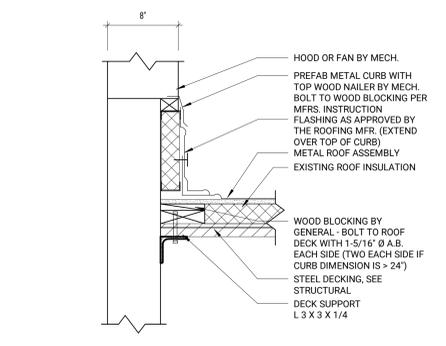
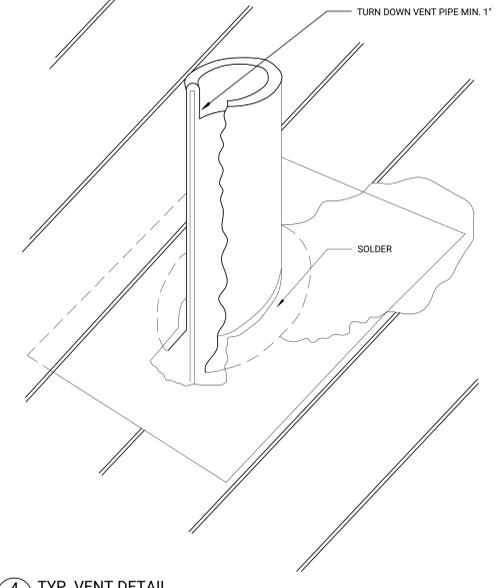
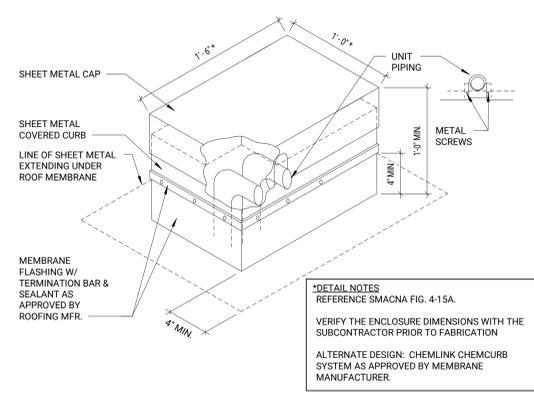
450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

FLOOR PLAN

A1-1

CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023

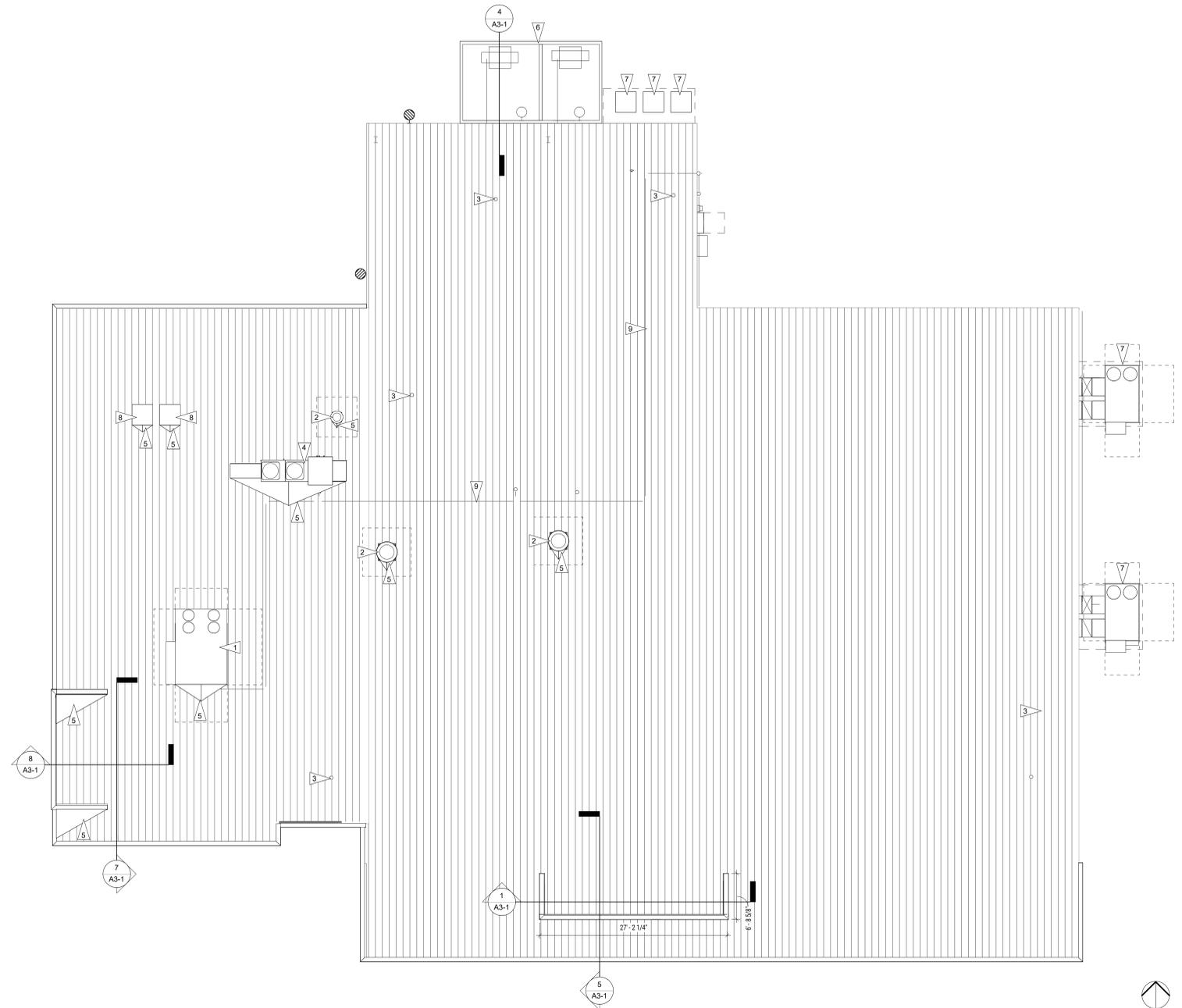


- ROOF PLAN FLAG NOTES**  
 FLAG NOTES APPLICABLE TO SHEET A1-2 ONLY
- MECHANICAL ROOFTOP UNIT. COORDINATE WITH MECHANICAL DRAWINGS.
  - ROOF EXHAUST. COORDINATE WITH MECHANICAL DRAWINGS.
  - ROOF VENT. COORDINATE WITH MECHANICAL DRAWINGS.
  - MAKE-UP AIR UNIT. COORDINATE WITH MECHANICAL DRAWINGS.
  - TAPERED SHEET MTL. FLASHING FOR DRAINAGE PAST PARAPET WALL.
  - COOLER BELOW. COORDINATE WITH MECHANICAL DRAWINGS.
  - MECH. EQUIPMENT BELOW. COORDINATE WITH MECHANICAL DRAWINGS.
  - AIR COOLED CONDENSING UNITS. COORDINATE WITH MECHANICAL DRAWINGS.
  - GAS PIPING ON ROOF. COORDINATE WITH MECHANICAL DRAWINGS.

- ROOF PLAN GENERAL NOTES**
- CONTRACTOR SHALL CONTACT THE ARCHITECT IN THE EVENT THAT UNFORESEEN CONDITIONS ARE ENCOUNTERED.
  - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS PIPING PENETRATIONS THAT SHALL OCCUR AND ARE NOT INDICATED ON THE ROOF PLAN.
  - TERMINATE AND FLASH ALL ROOFING IN A WATERTIGHT MANNER AS RECOMMENDED BY THE ROOFING MANUFACTURER.

**ROOF PLAN LEGEND:**  
 NOTE: SEE ALSO MECHANICAL DRAWINGS FOR SPECIFIC ROOF PENETRATION LOCATIONS AND DETAILS

EXISTING SCREW DOWN METAL ROOF



**1 ROOF PLAN**  
 A1-2 1/8" = 1'-0" 0' 1/8" 16'

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**REVISION SCHEDULE**

#	Description	Date

**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

**ROOF PLAN**

**PROJECT TEAM**

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**REVISION SCHEDULE**

#	Description	Date

**CUBBY'S RENOVATION - FREMONT**

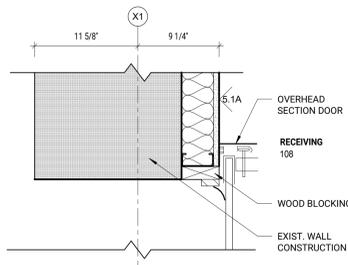
450 SOUTH BROAD STREET, FREMONT, NE 68025

**CUBBY'S INC.**

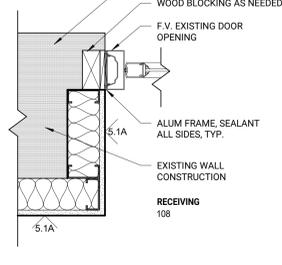
**PLAN DETAILS**

**A1-3**

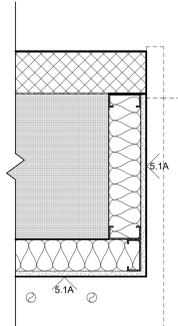
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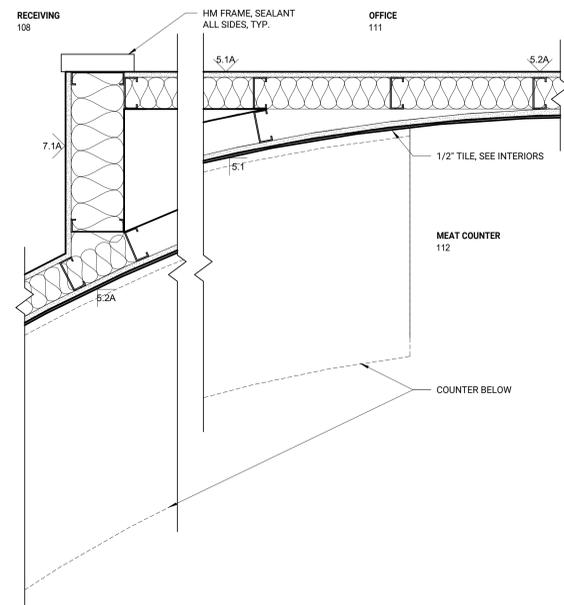
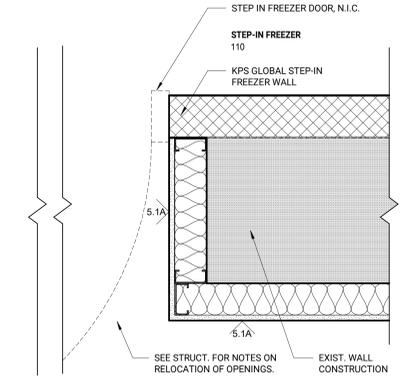
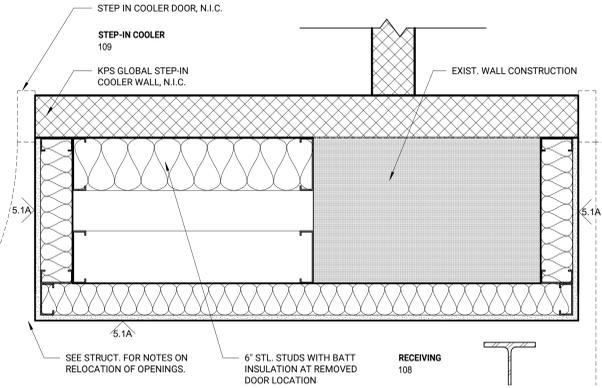
**10 PLAN DETAIL AT OVERHEAD DOOR**  
A1-3 1 1/2" = 1'-0" 0' 1" 8" 1'-4"



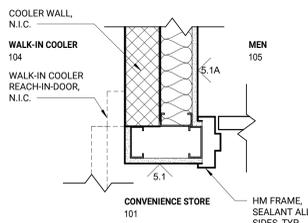
**9 DETAIL PLAN AT DOOR A108.1**  
A1-3 1 1/2" = 1'-0" 0' 1" 8" 1'-4"



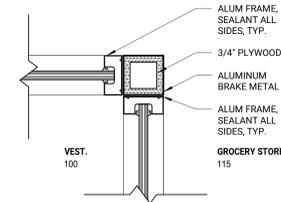
**8 PLAN DETAIL AT COOLER AND FREEZER DOORS**  
A1-3 1 1/2" = 1'-0" 0' 1" 8" 1'-4"



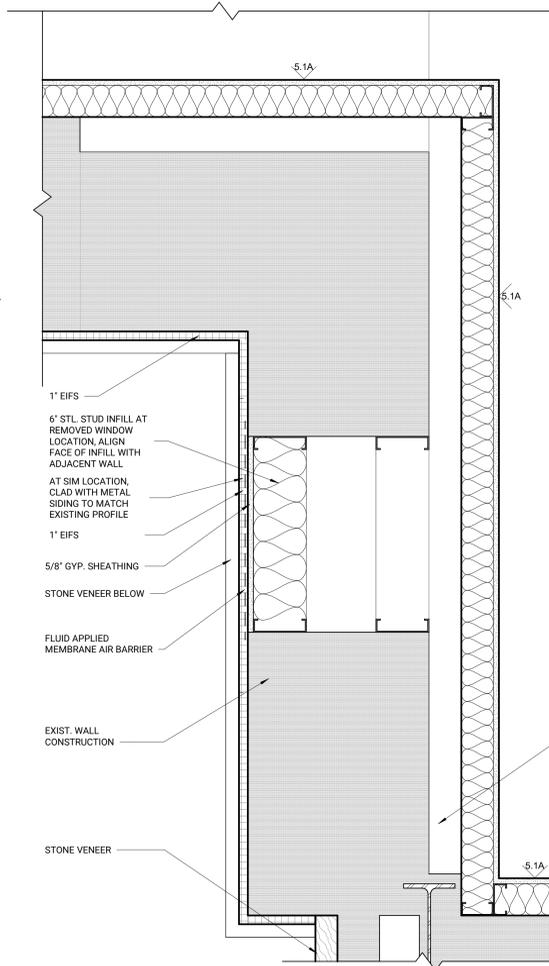
**6 PLAN DETAIL AT CURVED WALL**  
A1-3 1 1/2" = 1'-0" 0' 1" 4" 8"



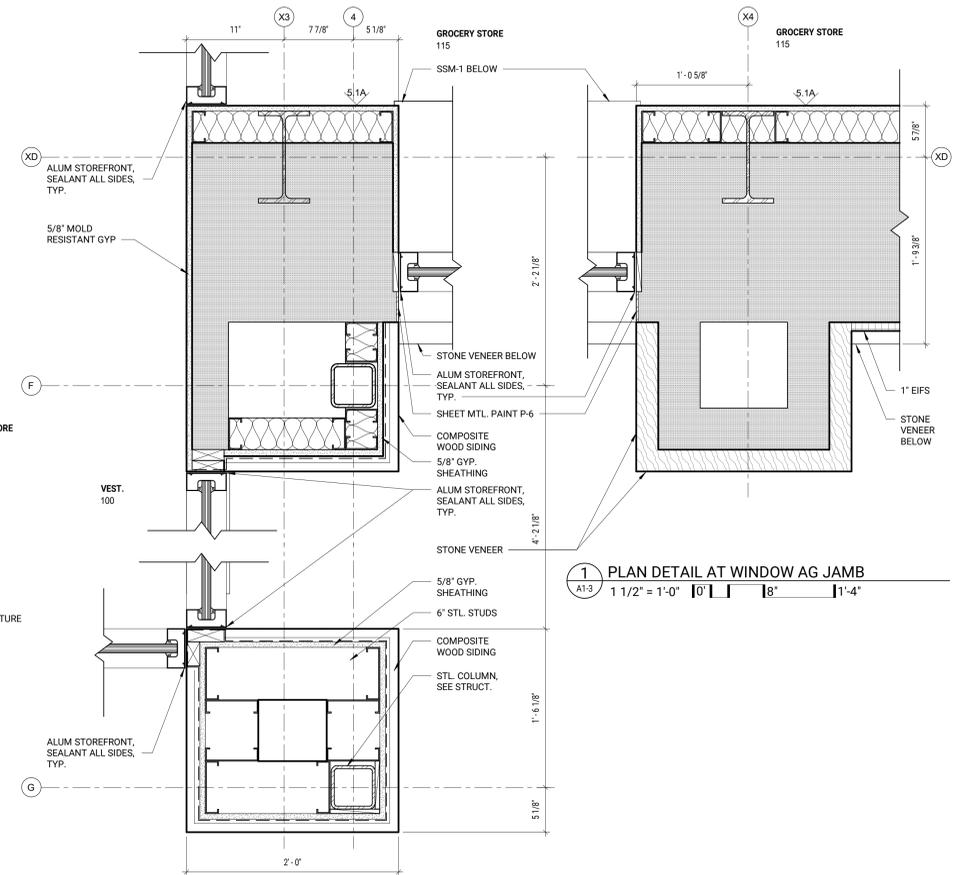
**7 PLAN DETAIL AT WALK-IN COOLER DOOR**  
A1-3 1 1/2" = 1'-0" 0' 1" 4" 8"



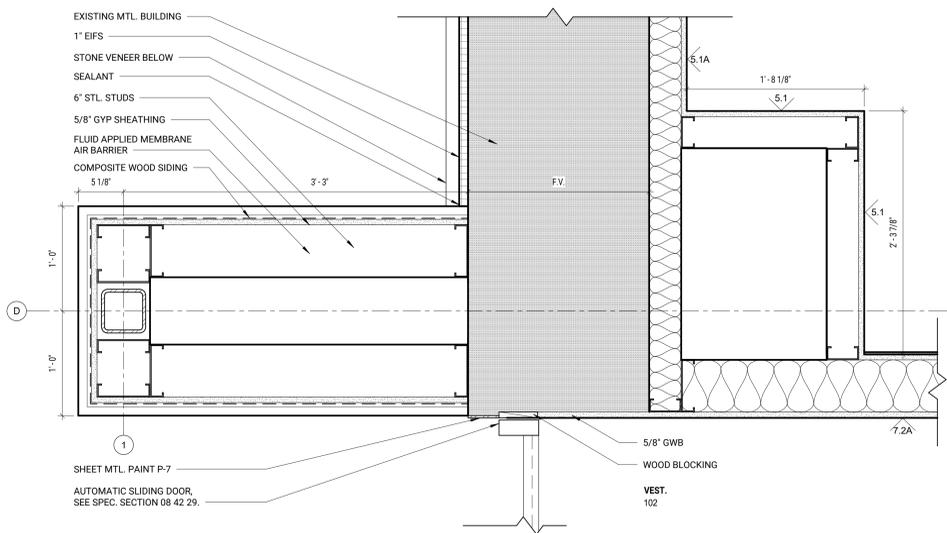
**5 PLAN DETAIL AT VEST. 100**  
A1-3 1 1/2" = 1'-0" 0' 1" 8" 1'-4"



**3 PLAN DETAIL AT EXISTING WINDOW INFILL**  
A1-3 1 1/2" = 1'-0" 0' 1" 8" 1'-4"

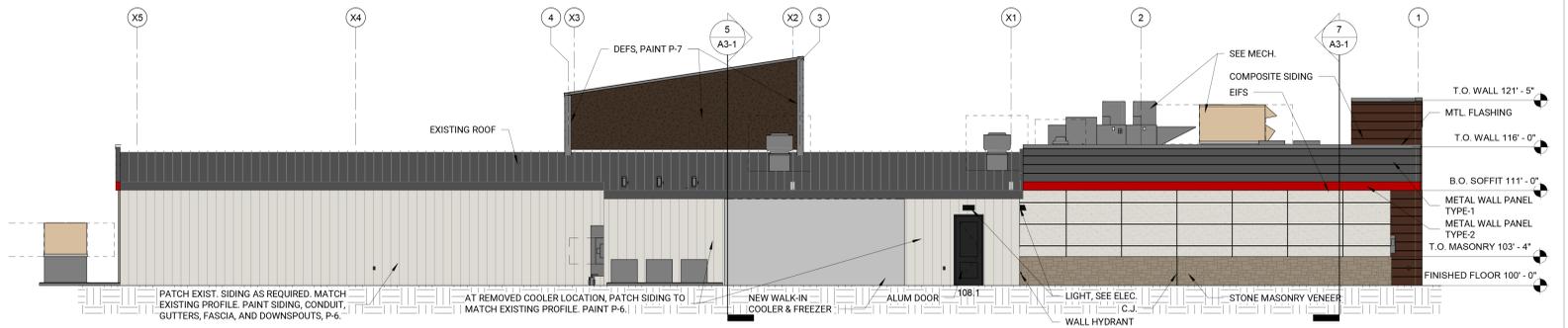


**1 PLAN DETAIL AT WINDOW AG JAMB**  
A1-3 1 1/2" = 1'-0" 0' 1" 8" 1'-4"

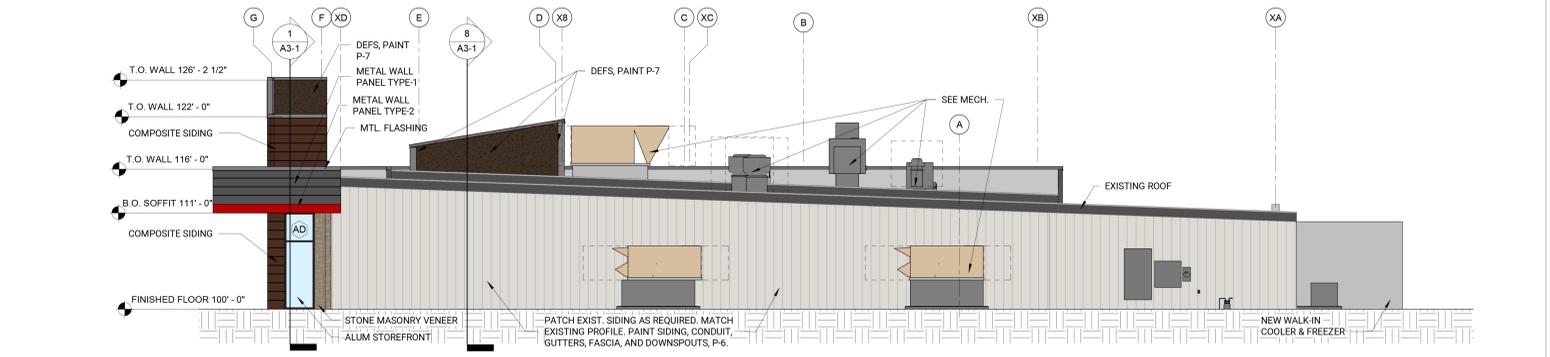


**4 PLAN DETAIL AT VEST. 102**  
A1-3 1 1/2" = 1'-0" 0' 1" 8" 1'-4"

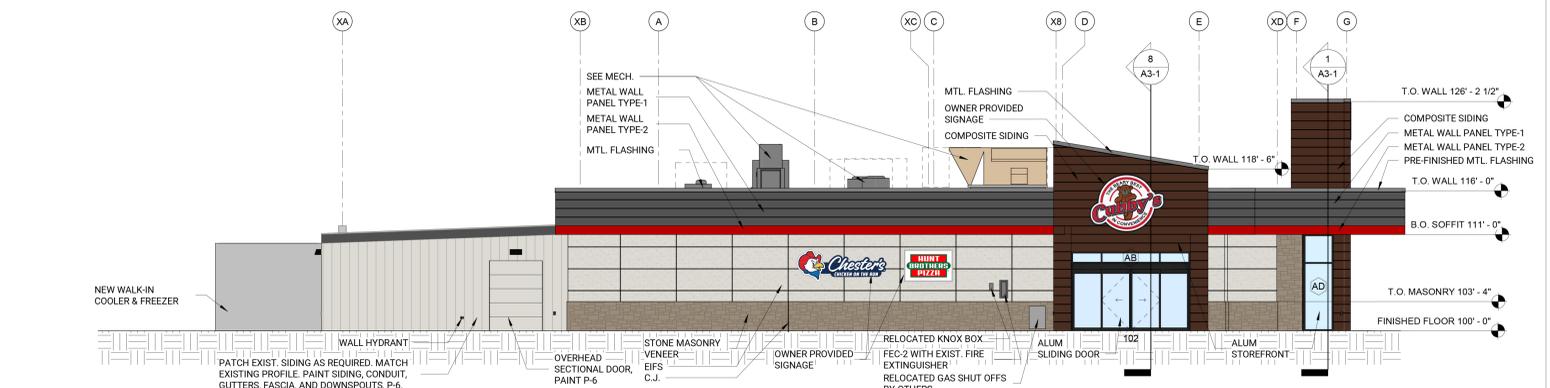
NOTE:  
THESE VIEWS ARE FOR GENERAL AND BASIC ORIENTATION ONLY. SEE  
BALANCE OF PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR  
EXTENT OF WORK.



4 NORTH ELEVATION  
A2-1 1/8" = 1'-0" 0' 8' 16'



3 EAST ELEVATION  
A2-1 1/8" = 1'-0" 0' 8' 16'



2 WEST ELEVATION  
A2-1 1/8" = 1'-0" 0' 8' 16'



1 SOUTH ELEVATION  
A2-1 1/8" = 1'-0" 0' 8' 16'

PROJECT TEAM

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BCDM ARCHITECTS  
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Omaha, NE 68114  
STRUCTURAL ENGINEER  
BCDM ARCHITECTS  
1015 North 98th Street, Suite 300  
Omaha, NE 68114  
MECHANICAL + ELECTRICAL ENGINEER  
MORRISSEY ENGINEERING INC.  
4940 N 118th St  
Omaha, NE 68154



REVISION SCHEDULE

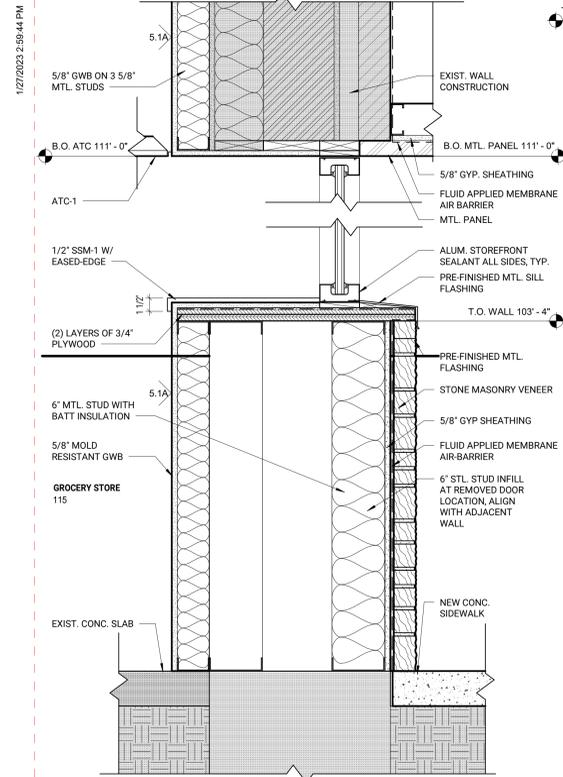
#	Description	Date
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CUBBY'S RENOVATION - FREMONT

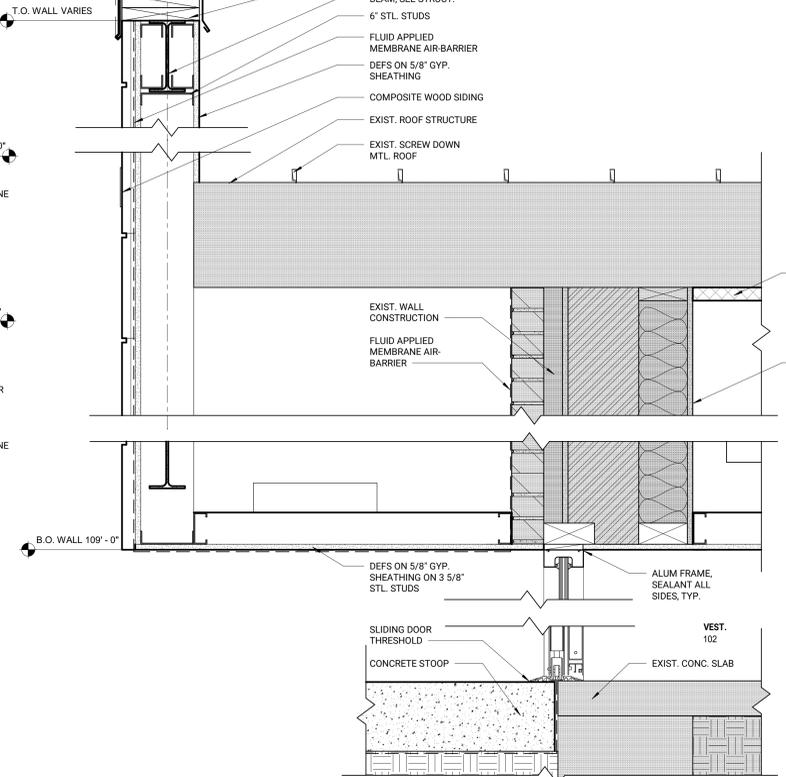
450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

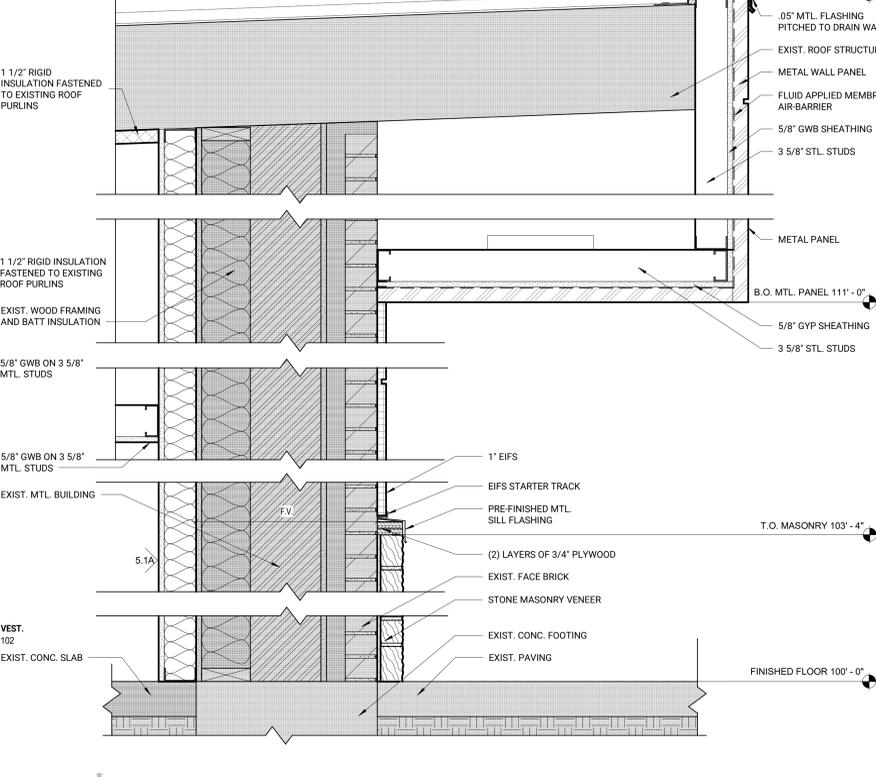
EXTERIOR ELEVATIONS



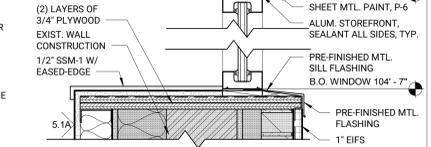
11 DETAIL AT WALL INFILL OF EXISTING EXT. DOOR  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



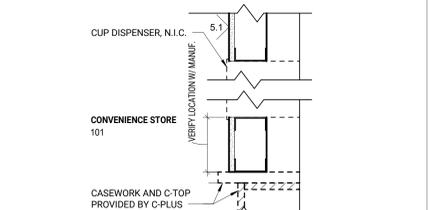
10 DETAIL SECTION THROUGH DOOR 102  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



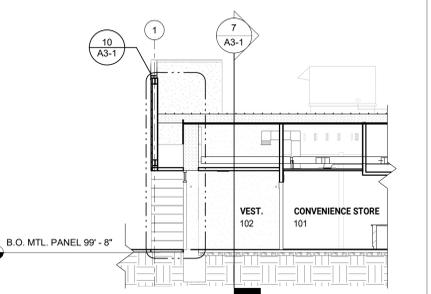
9 DETAIL SECTION THROUGH FURRED OUT EXISTING WALL  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



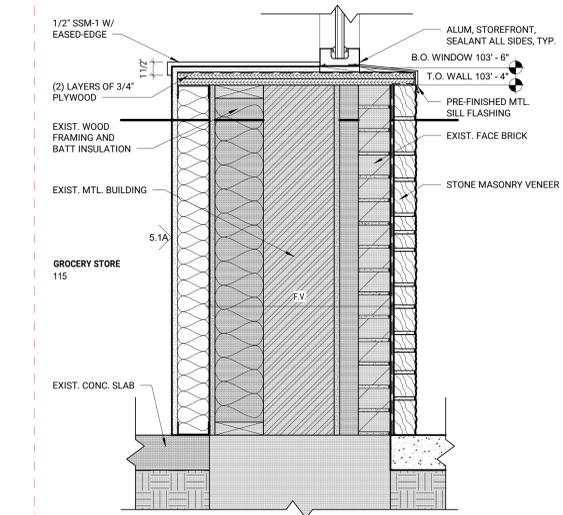
13 DETAIL SECTION THROUGH EXIST. WINDOW  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



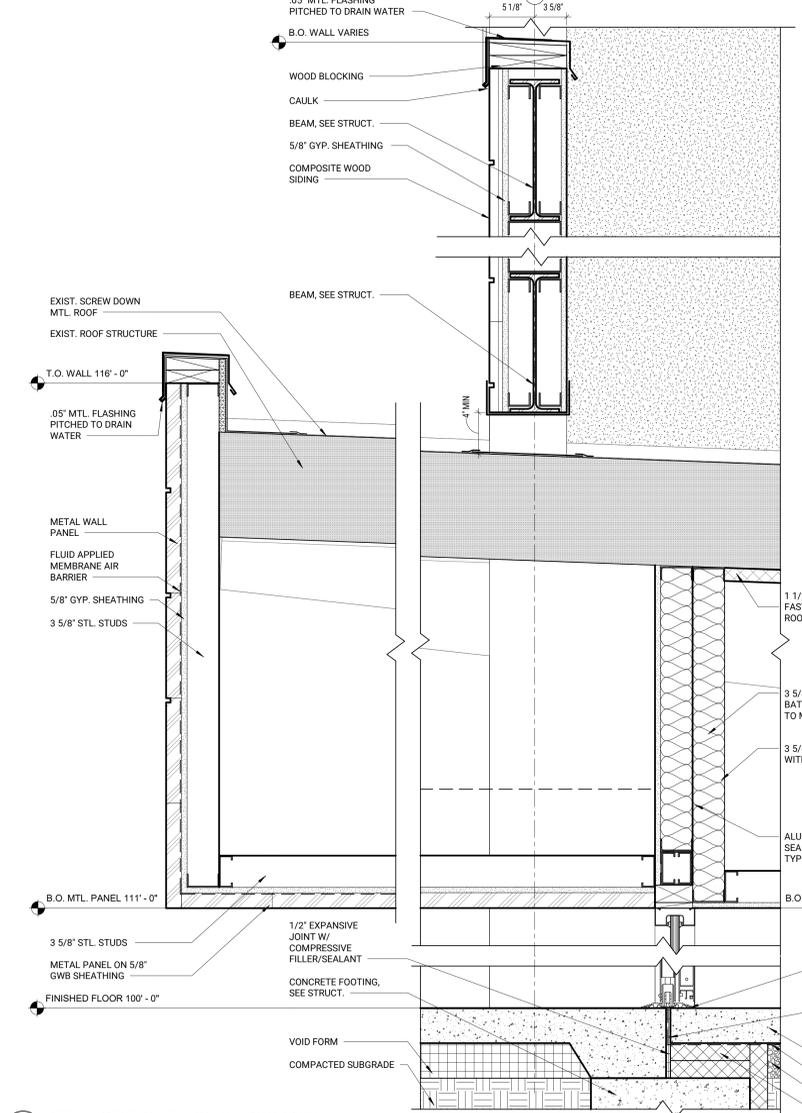
12 SECTION AT CUP DISPENSER  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



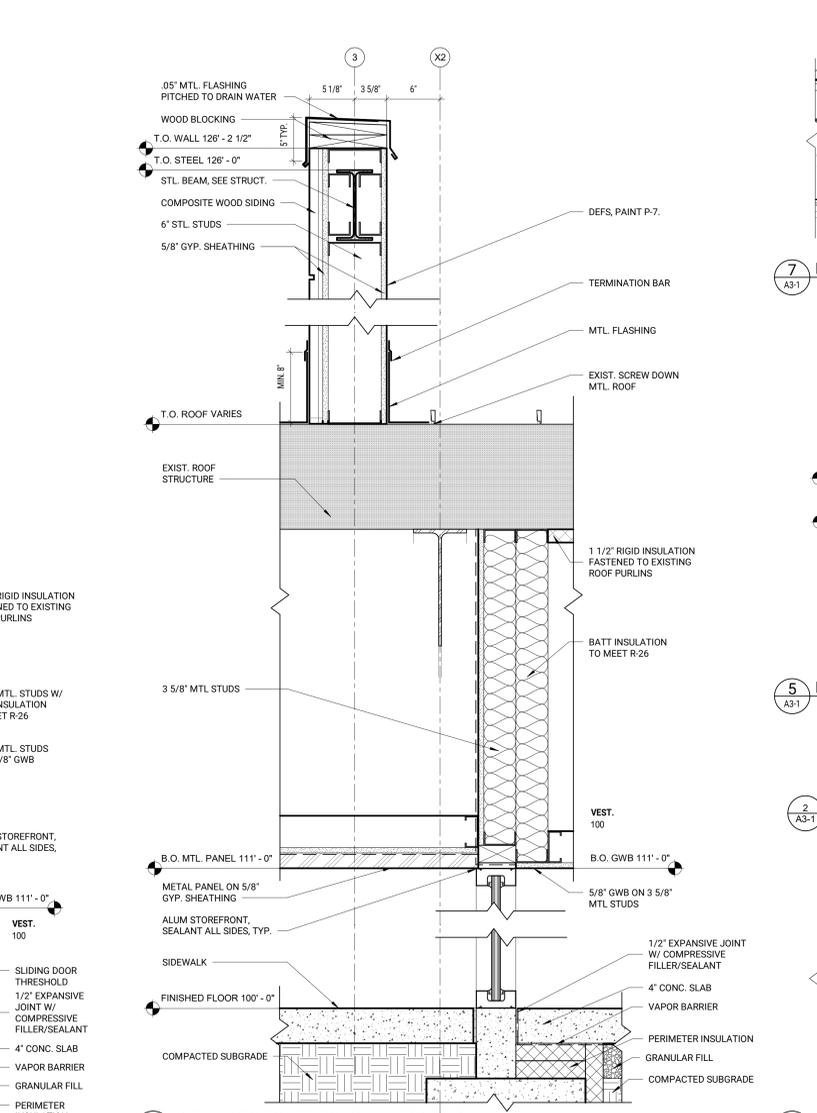
8 BUILDING SECTION THROUGH VEST. 102 LOOKING NORTH  
A3-1 1/8" = 1'-0" | 0" | 8" | 16'



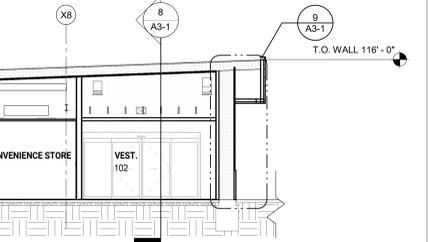
6 DETAIL SECTION AT WINDOW SILL  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



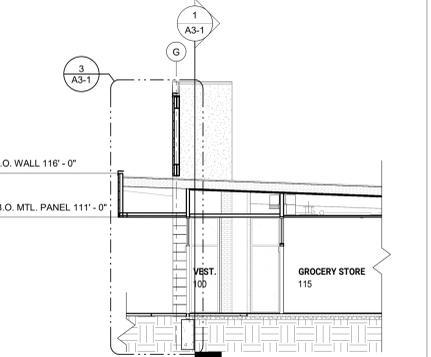
3 DETAIL SECTION THROUGH DOOR 100  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



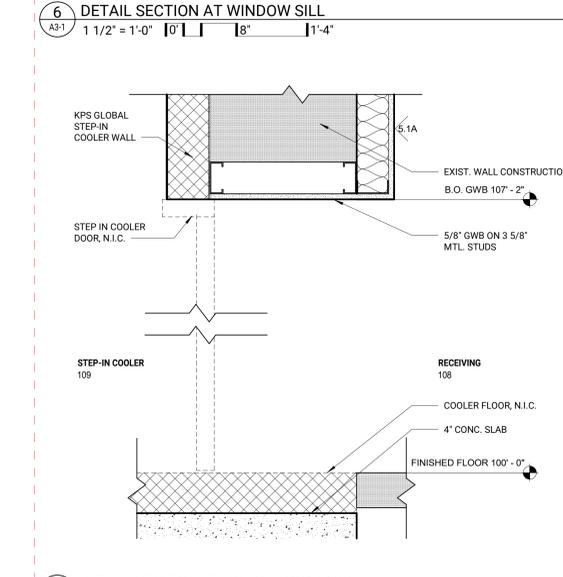
2 DETAIL SECTION THROUGH WINDOW AD  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



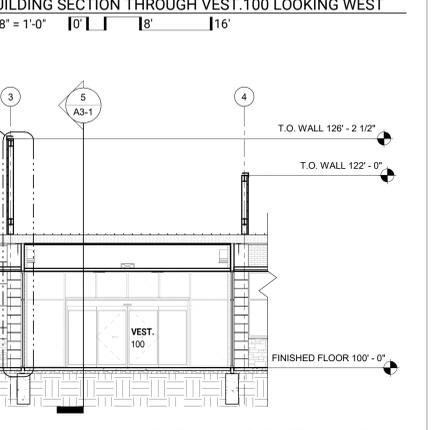
7 BUILDING SECTION THROUGH VEST. 102 LOOKING EAST  
A3-1 1/8" = 1'-0" | 0" | 8" | 16'



5 BUILDING SECTION THROUGH VEST. 100 LOOKING WEST  
A3-1 1/8" = 1'-0" | 0" | 8" | 16'



4 DETAIL SECTION THROUGH DOOR 109  
A3-1 1 1/2" = 1'-0" | 0" | 8" | 1'-4"



1 BUILDING SECTION THROUGH VEST. 100 LOOKING NORTH  
A3-1 1/8" = 1'-0" | 0" | 8" | 16'



REVISION SCHEDULE

#	Description	Date

CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

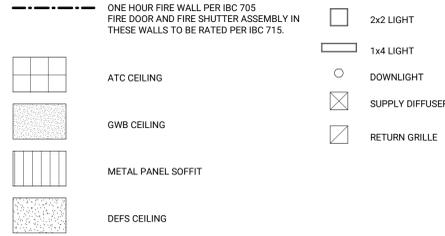
CUBBY'S INC.

SECTIONS

A3-1



REFLECTED CEILING PLAN LEGEND:



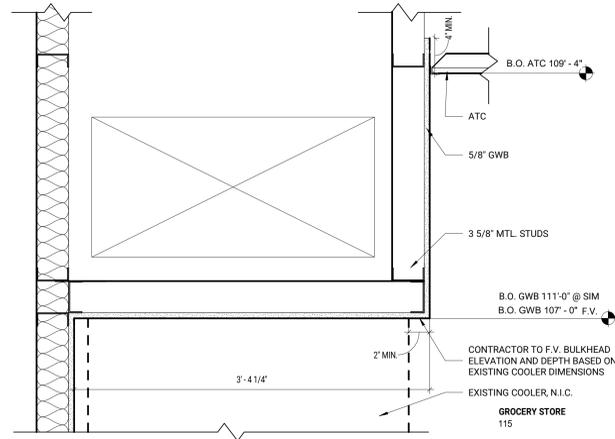
REFLECTED CEILING PLAN FLAG NOTES

FLAG NOTES APPLICABLE TO SHEET AS-1 ONLY

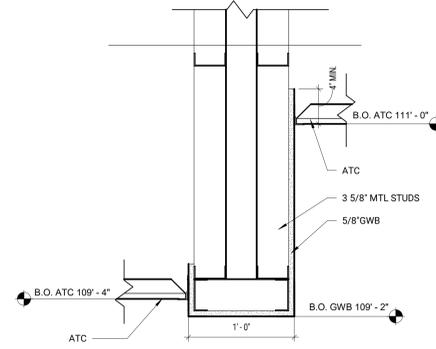
1. GWB CONTROL JOINT.
2. CEILING ACCESS DOOR, SEE SPEC SECTION 08 31 00. PAINT ACCESS PANEL TO MATCH CEILING.
3. PAINT SIDE FACE OF BULKHEAD P-5. PAINT UNDERSIDE OF BULKHEAD P-3.
4. PAINT SIDE FACE AND UNDERSIDE OF BULKHEAD P-4.
5. PRIME AND PAINT MECHANICAL DIFFUSERS P-4, TO MATCH BULKHEAD.
6. COORDINATE BULKHEAD ELEVATION WITH SALVAGED COOLER HEIGHT.
7. COORDINATE BULKHEAD ELEVATION WITH OWNER PROVIDED SHELVING.
8. COORDINATE BULKHEAD ELEVATION WITH OWNER PROVIDED ICE MAKER / ICE & POST MIX.
9. PAINT ALL FACES OF BULKHEAD P-1.

REFLECTED CEILING PLAN GENERAL NOTES

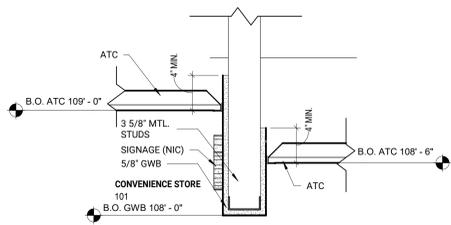
1. WALLS THAT ARE INDICATED TO BE RATED SHALL EXTEND TO THE BOTTOM OF THE STRUCTURAL DECK. SEAL AT THE TOP OF SUCH WALLS ARE AT PENETRATIONS THROUGH SUCH WALLS WITH FIRE SEALANT AND FIRE SAFING INSULATION.
2. ALL WALLS EXTEND TO STRUCTURAL DECK UNLESS NOTED OTHERWISE.
3. CENTER GRID IN ROOMS UNLESS NOTED OTHERWISE.
4. ALL RECESSED ELECTRICAL FIXTURES, MESH, GRILLES, DIFFUSERS, ETC. SHALL BE CENTERED IN CEILING GRID UNLESS NOTED OTHERWISE.
5. ALL TILES ARE TO BE 4" MIN. DIMENSION WHERE NOT POSSIBLE, USE OVERSIZED TILES CUT FROM 2'x4' TILES.



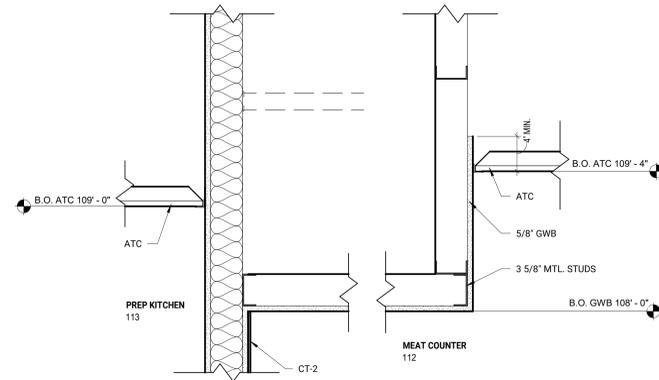
7 DETAIL AT BULKHEAD ABOVE EXISTING COOLERS



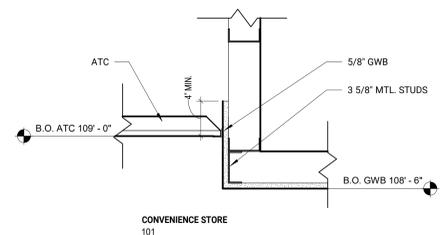
6 DETAIL AT CEILING HEIGHT TRANSITION IN GROCERY STORE 115



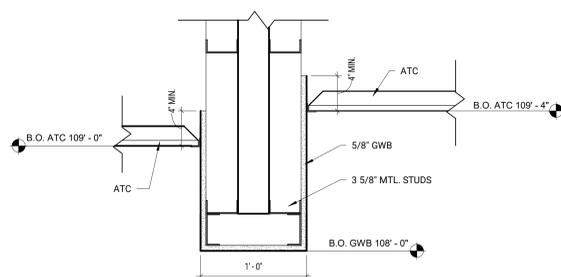
5 DETAIL AT CEILING HEIGHT TRANSITION IN CONVENIENCE STORE 101



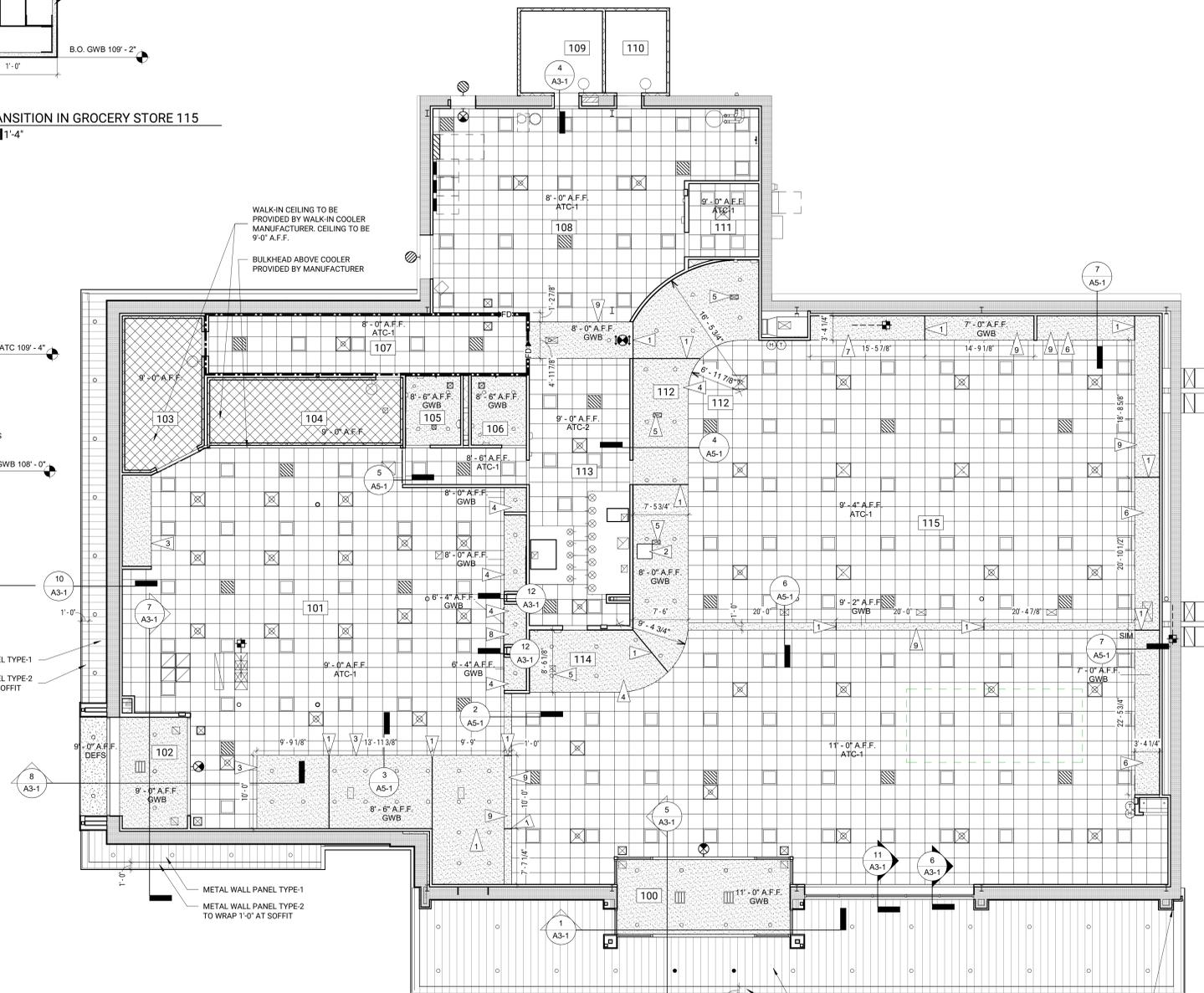
4 DETAIL AT BULKHEAD ABOVE MEAT COUNTER & CHESTER'S / HUNT BROTHER'S



3 DETAIL AT CHECKOUT COUNTER BULKHEAD



2 DETAIL AT TRANSITION BETWEEN CONVENIENCE 101 AND GROCERY 115



1 REFLECTED CEILING PLAN



**PROJECT TEAM**

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 4940 N 118th St  
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REVISION SCHEDULE

#	Description	Date

CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

REFLECTED CEILING PLAN

A5-1

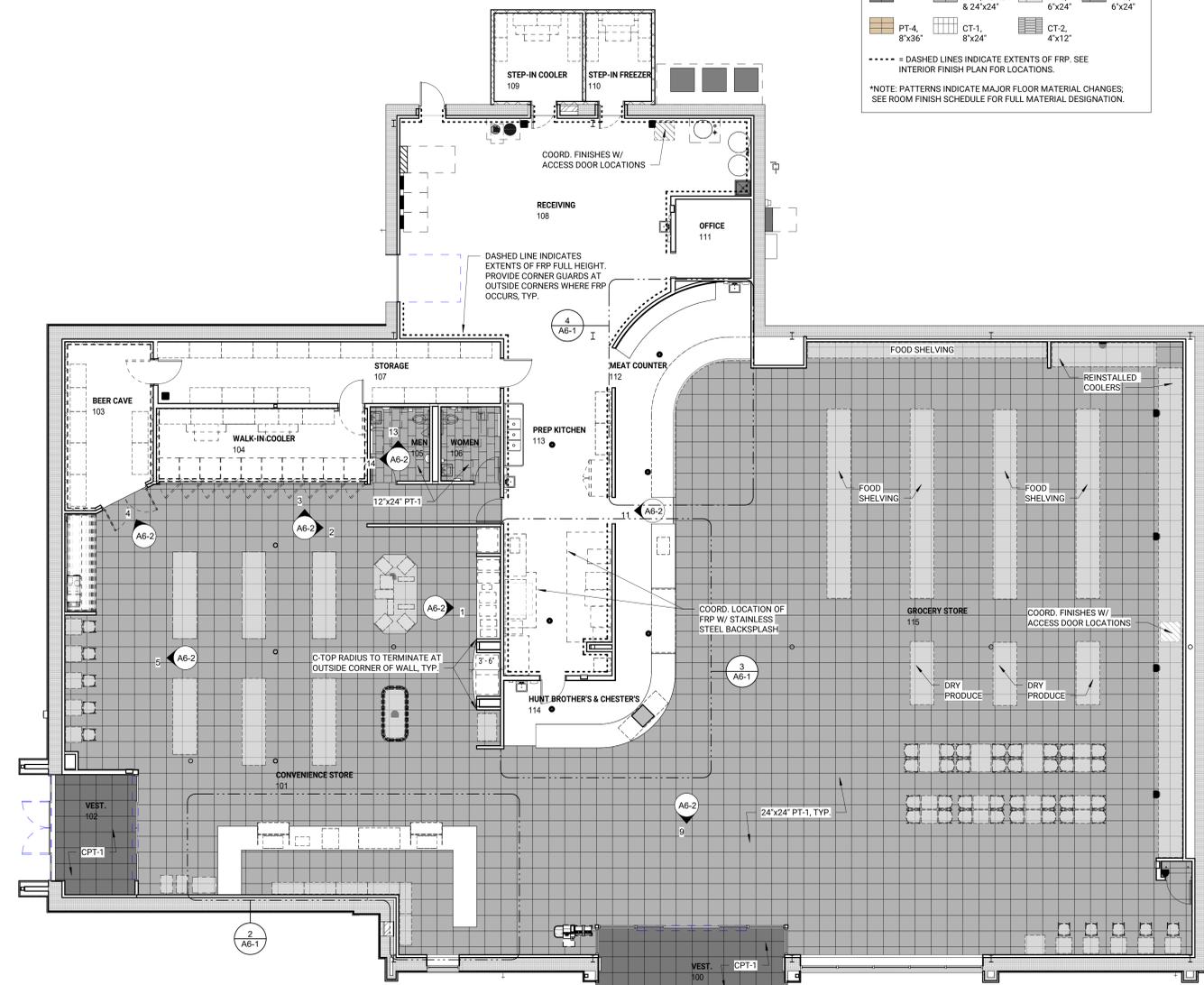
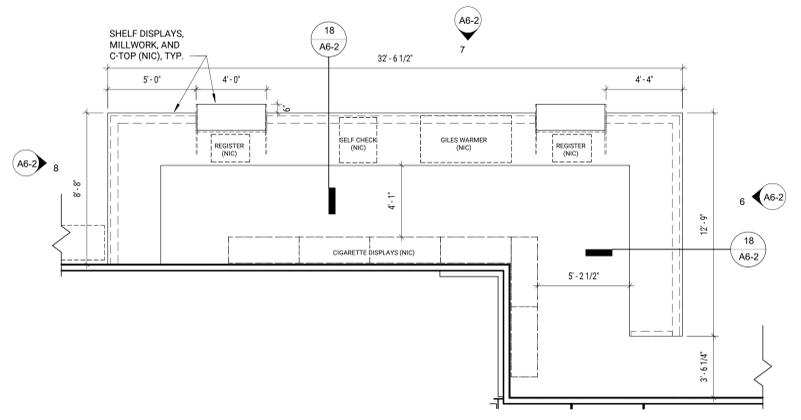
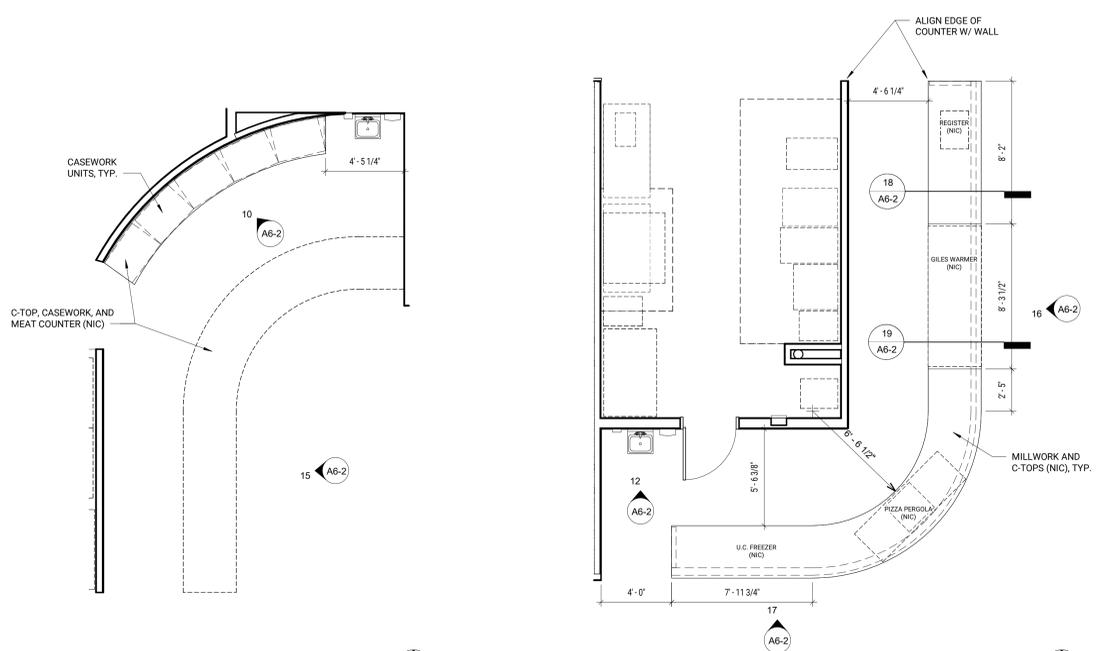
ROOM FINISH SCHEDULE REMARKS	
1.	SEE ELEVATIONS 13 & 14 ON A6-2 FOR TYPICAL RESTROOM WALL TILE PATTERNING.
2.	PROVIDE FRP FULL HEIGHT, SEE DASHED LINES NOTED ON THE INTERIOR FINISH PLAN FOR LOCATIONS. CONTRACTOR TO COORDINATE FRP LOCATION AT PREP KITCHEN W/ STAINLESS STEEL BACKSPLASH PROVIDED BY HOOD MANUFACTURER.
3.	SEE RCP FOR LOCATIONS OF COLORED BULKHEADS.
4.	PROVIDE 12"x24" PT-1 BASE CUT TO 4" HEIGHT THROUGHOUT ROOM.

INTERIOR FINISH PLAN GENERAL NOTES	
1.	SEE INTERIOR FINISH PLANS AND/OR ELEVATIONS FOR PATTERNS AND DESIGNATIONS OF MATERIAL TERMINATIONS.
2.	CEILING HEIGHT AND MATERIAL MAY VARY, SEE REFLECTED CEILING PLANS. ALL FLOOR FINISH TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION, UNO.
3.	WHERE PAINTED EXPOSED STRUCTURE IS NOTED AT ROOM FINISH SCHEDULE, PAINT EXTENTS SHALL INCLUDE DECKING, JOISTS, BEAMS, PIPING, DUCT WORK, ETC.
4.	PAINT EXPOSED COLUMNS P-2.

ROOM NO.	NAME	FLOOR	BASE	WALLS				CEILING MATERIAL	REMARK
				NORTH	EAST	SOUTH	WEST		
100	VEST.		CPT-1	*PT-1	P-1	P-1	P-1	GWB, P-3	*NOTE 4
101	CONVENIENCE STORE		PT-1	PT-1	P-1 / PT-4	P-1, P-4 / CT-2	P-5 / PT-4	P-1, P-5 / PT-4	*ATC-1 / GWB, P-1,3,4,5
102	VEST.		CPT-1	*PT-1	P-1	P-1	P-1	GWB, P-3	*NOTE 4
103	BEER CAVE		---	---	---	---	---	---	
104	WALK-IN COOLER		---	---	---	---	---	---	
105	MEN		PT-1	PT-1	*PT-2	*PT-2	*PT-2, 3	GWB, P-3	*NOTE 1
106	WOMEN		PT-1	PT-1	*PT-2	*PT-2	*PT-2, 3	GWB, P-3	*NOTE 1
107	STORAGE		SVF-1	SVF-1	P-1	P-1	P-1	ATC-1	
108	RECEIVING		SVF-1	SVF-1	*FRP / P-1	*FRP / P-1	*FRP / P-1	*FRP / P-1	ATC-1 / GWB, P-3
109	STEP-IN COOLER		---	---	---	---	---	---	
110	STEP-IN FREEZER		---	---	---	---	---	---	
111	OFFICE		SVF-1	SVF-1	P-1	P-1	P-1	ATC-1	
112	MEAT COUNTER		SVF-1	SVF-1	CT-1	CT-1	CT-1	*GWB, P-4	*NOTE 3
113	PREP KITCHEN		SVF-1	SVF-1	*FRP / P-1	*FRP / P-1	*FRP / P-1	*FRP / P-1	ATC-2
114	HUNT BROTHERS & CHESTERS		SVF-1	SVF-1	CT-1	CT-1	CT-1	*GWB, P-4	*NOTE 3
115	GROCERY STORE		PT-1	*PT-1	P-1	P-1	P-1	*ATC-1 / GWB, P-1	*NOTE 3,4
116	CLOSET		---	---	---	---	---	---	

ROOM FINISH LEGEND	
ATC	ACOUSTICAL TILE CEILING
CONC	CONCRETE - SEALED
CPT	CARPET
CT	CERAMIC TILE
GWB	GYPSONUM WALL BOARD
P	PAINT
PT	PORCELAIN TILE
SVF	SHEET VINYL FLOOR
VB	VINYL BASE

NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR



INTERIOR FINISH LEGEND			
CPT-1	PT-1, 12"x24" & 24"x24"	PT-2, 6"x24"	PT-3, 6"x24"
PT-4, 8"x36"	CT-1, 8"x24"	CT-2, 4"x12"	

--- DASHED LINES INDICATE EXTENTS OF FRP. SEE INTERIOR FINISH PLAN FOR LOCATIONS.  
\*NOTE: PATTERNS INDICATE MAJOR FLOOR MATERIAL CHANGES; SEE ROOM FINISH SCHEDULE FOR FULL MATERIAL DESIGNATION.



**PROJECT TEAM**

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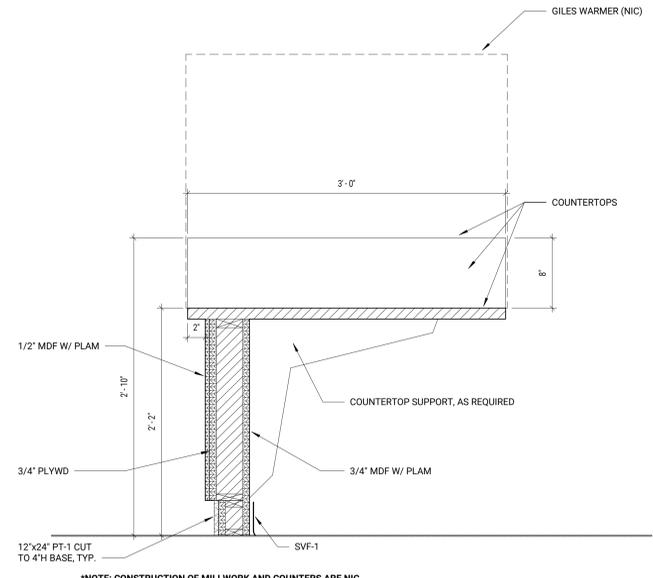
REVISION SCHEDULE		
#	Description	Date

### CUBBY'S RENOVATION - FREMONT

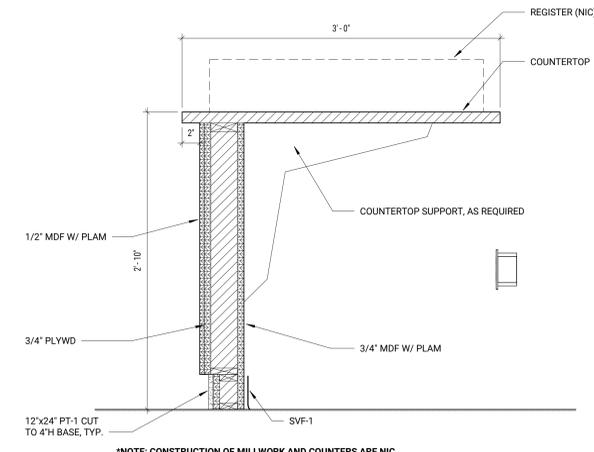
450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

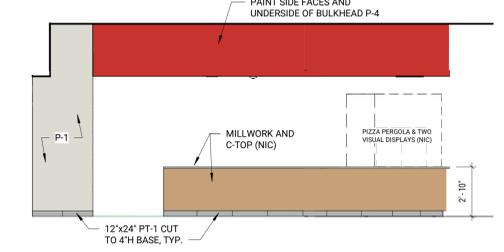
### INTERIOR FINISH PLAN



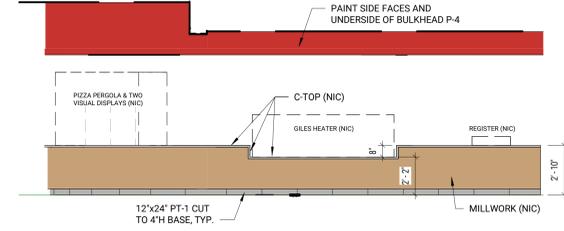
19 SECTION THROUGH HUNT BROTHERS & CHESTERS LOWER COUNTER  
1 1/2" = 1'-0" 0' 1' 4'



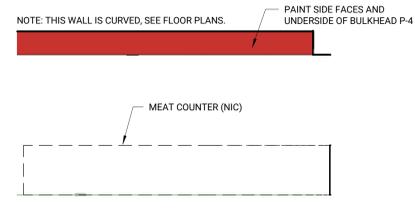
18 SECTION THROUGH TYPICAL COUNTER  
1 1/2" = 1'-0" 0' 1' 4'



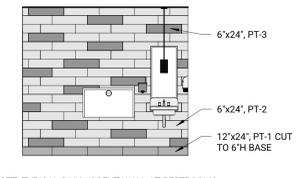
17 HUNT BROTHERS & CHESTERS COUNTER 114 - LOOKING NORTH  
1/4" = 1'-0" 0' 4' 8'



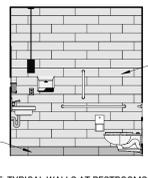
16 HUNT BROTHERS & CHESTERS COUNTER 114 - LOOKING WEST  
1/4" = 1'-0" 0' 4' 8'



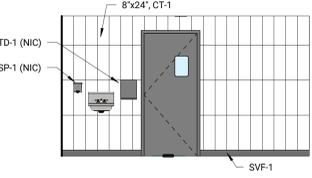
15 MEAT COUNTER 112 - LOOKING WEST  
1/4" = 1'-0" 0' 4' 8'



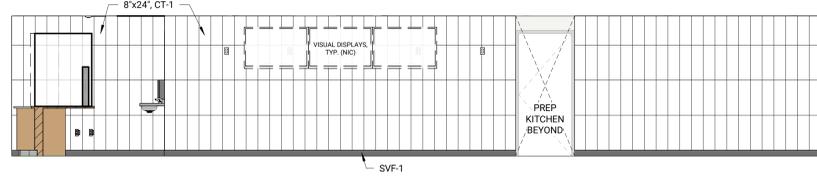
14 MEN 105 - WEST  
1/4" = 1'-0" 0' 4' 8'



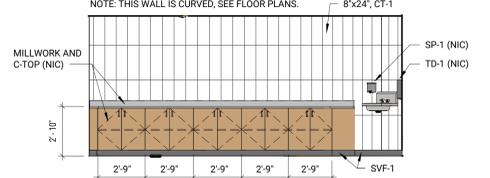
13 MEN 105 - NORTH  
1/4" = 1'-0" 0' 4' 8'



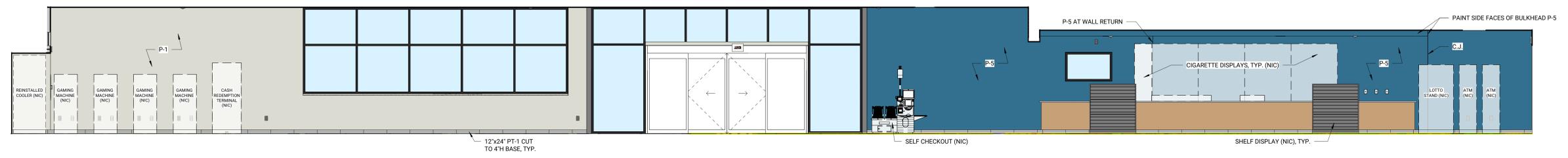
12 HUNT BROTHERS & CHESTERS 114 - NORTH  
1/4" = 1'-0" 0' 4' 8'



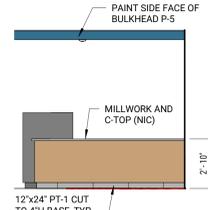
11 HUNT BROTHERS & CHESTERS 114 - WEST  
1/4" = 1'-0" 0' 4' 8'



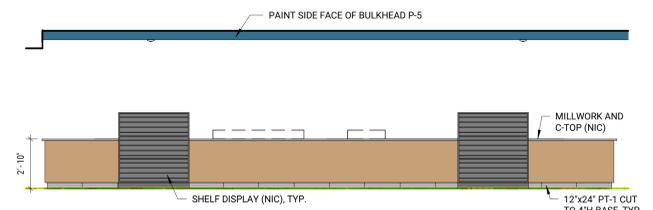
10 MEAT COUNTER 112 - NORTHWEST  
1/4" = 1'-0" 0' 4' 8'



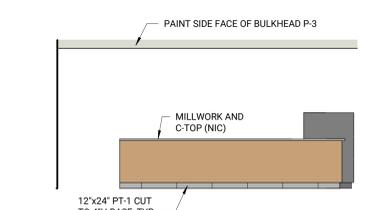
9 CONVENIENCE STORE 101 & GROCERY STORE 115 - SOUTH  
1/4" = 1'-0" 0' 4' 8'



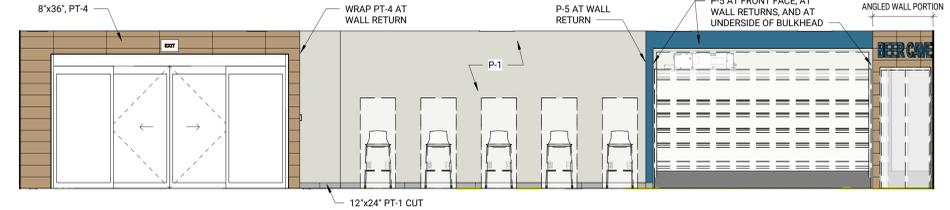
8 CONVENIENCE STORE COUNTER 101 - LOOKING EAST  
1/4" = 1'-0" 0' 4' 8'



7 CONVENIENCE STORE COUNTER 101 - LOOKING SOUTH  
1/4" = 1'-0" 0' 4' 8'



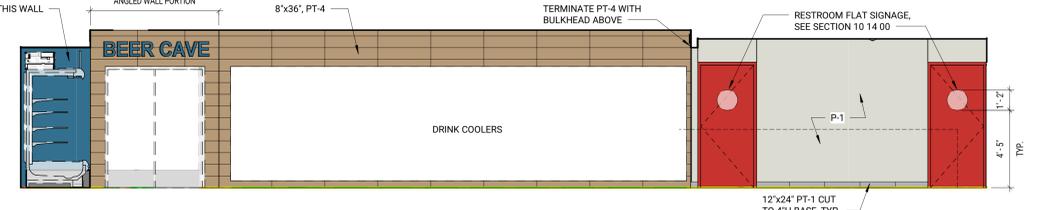
6 CONVENIENCE STORE COUNTER 101 - LOOKING WEST  
1/4" = 1'-0" 0' 4' 8'



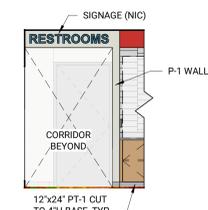
5 CONVENIENCE STORE 101 - WEST  
1/4" = 1'-0" 0' 4' 8'



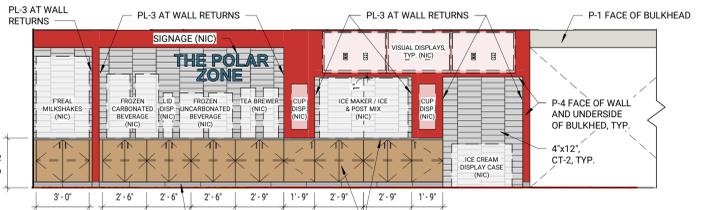
4 CONVENIENCE STORE 101 - NORTHWEST  
1/4" = 1'-0" 0' 4' 8'



3 CONVENIENCE STORE 101 - NORTH  
1/4" = 1'-0" 0' 4' 8'



2 CONVENIENCE STORE 101 - EAST  
1/4" = 1'-0" 0' 4' 8'



1 CONVENIENCE STORE 101 BEVERAGE COUNTER - EAST  
1/4" = 1'-0" 0' 4' 8'

REVISION SCHEDULE table with columns for Description and Date.

CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

INTERIOR ELEVATIONS

DESIGN CRITERIA

- 1. BUILDING CODE: INTERNATIONAL BUILDING CODE 2018 + ANY APPLICABLE LOCAL AMENDMENTS.
2. DEAD LOAD: WEIGHT OF ALL STRUCTURAL AND NON-STRUCTURAL PERMANENT COMPONENTS OF THE BUILDING.
3. FLOOR LIVE LOADS: FIRST FLOOR 100 PSF
4. ROOF LIVE LOADS: MIN. LOAD USED IN DESIGN IS GREATER OF 30 PSF OR APPLICABLE SNOW DRIFT.
5. ROOF SNOW LOAD FACTORS: GROUND SNOW LOAD (Pg) 30 PSF, FLAT ROOF SNOW LOAD (Pf) 21 PSF, SNOW EXPOSURE FACTOR (Ce) 1.0, SNOW LOAD IMPORTANCE FACTOR (Is) 1.0, THERMAL FACTOR (Ct) 1.0
6. WIND LOAD FACTORS: BASIC WIND SPEED 112 MPH, RISK CATEGORY II, EXPOSURE CATEGORY C
7. SEISMIC LOAD FACTORS: SITE CLASS II, SPECTRAL RESPONSE COEFFICIENT SDS 0.088, SPECTRAL RESPONSE COEFFICIENT SD1 0.070, SEISMIC IMPORTANCE FACTOR Ie 1.0, RISK CATEGORY II, SEISMIC DESIGN CATEGORY A
8. NO PROVISIONS FOR FUTURE EXPANSION

COORDINATION AND VERIFICATION

- 1. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON OTHER DRAWINGS.
2. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
3. MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE, ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK.

FOUNDATIONS

- 1. ALL FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE = 2000 PSF
2. PROVIDE SHEETING, SHORING, AND BRACING AS REQUIRED TO PROTECT ADJACENT BUILDINGS, STREET, AND UTILITIES.
3. AT PERIMETER FOOTINGS AND FOOTINGS BENEATH UNHEATED AREAS, FROST DEPTH TO BE MINIMUM 42 INCHES BELOW FINISH GRADE.
4. SUBSOIL INVESTIGATION REPORT AND BORING LOGS ARE INCLUDED IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THIS REPORT AND FOLLOW ALL RECOMMENDATIONS.
5. NOTIFY ENGINEER AND GEOTECHNICAL ENGINEER OF UNUSUAL SOIL CONDITIONS BEFORE PROCEEDING WITH WORK. THIS INCLUDES SOIL CONDITIONS IN VARIANCE WITH TEST BORINGS.

CAST-IN-PLACE CONCRETE

- 1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
2. SUBMIT SHOP DRAWINGS FOR ALL REINFORCING STEEL AND EMBEDDED ITEMS.
3. COLD WEATHER CONCRETING SHALL CONFORM TO ACI - 306, HOT WEATHER CONCRETING SHALL CONFORM TO ACI - 305
4. DO NOT PLACE PIPES, DUCTS, OR OTHER ITEMS IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE ARCHITECT OR ENGINEER.
5. ALL REINFORCEMENT, ANCHOR BOLTS, & EMBEDDED ITEMS SHALL BE PLACED AND INSPECTED PRIOR TO CONCRETE PLACEMENT. DO NOT "FLOAT" ITEMS INTO FOOTINGS
6. REINFORCEMENT: DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60.
7. WELDED WIRE FABRIC TO BE FLAT SHEETS AND CONFORM TO ASTM A 185.
8. CEMENT: NORMAL PORTLAND CEMENT, ASTM C150, TYPE 1.
9. AGGREGATE: DURABLE, WELL-GRADED MINERALS CONFORMING TO ASTM C33.
10. WATER SHALL BE CLEAN, POTABLE, AND FREE FROM DELETERIOUS MATERIALS. ADDITION OF WATER AT JOBSITE WILL NOT BE ALLOWED UNLESS SPECIFICALLY APPROVED
11. CONCRETE MIX: fc = 4,000 PSI, SLUMP 2" TO 4", SEE SPECIFICATION FOR ANY ALTERNATE MIXES
12. ADMIXTURES SHALL CONFORM TO ASTM C494. USE AIR ENTRAINING ADMIXTURES CONFORMING TO ASTM C260 TO MAINTAIN AIR CONTENT RANGE 5%-7% FOR EXTERIOR CONCRETE.
13. GROUT SHALL BE NON-SHRINK, NON-METALLIC. CONCRETE CONTRACTOR TO PROVIDE AND INSTALL IN ACCORDANCE TO MANUFACTURERS DIRECTIONS.
14. THOROUGHLY COMPACT AND VIBRATE CONCRETE INTO CORNERS AND AROUND REINFORCING AND EMBEDDED ITEMS. USE INTERNAL VIBRATION WHERE SIZE OF SECTION PERMITS.
15. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:
- CONCRETE CAST AGAINST, AND PERMANENTLY EXPOSED TO, EARTH. 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER. 2"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER, BEAM AND COLUMN BARS 1 1/2"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER, SLAB AND WALLS 1"
16. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING.
17. SAWCUT CONTROL JOINTS IN CONCRETE SLABS ON GRADE SHALL BE 1/8" WIDE AND 1/4 OF SLAB THICKNESS IN DEPTH. CUTTING OPERATIONS SHALL BE FROM 4 TO 12 HOURS AFTER PLACING CONCRETE. WHEN THE AIR TEMPERATURE IS LESS THAN 50 DEGREES, SAW CUT 12 HOURS AFTER PLACING CONCRETE. JOINTS TO BE ON COLUMN LINES AND MAXIMUM SPACING OF JOINTS SHALL BE 14'-0" UNLESS SHOWN OTHERWISE ON DRAWINGS.
18. POST-INSTALLED MECHANICAL ANCHORS: HILTI KWIK BOLT TZ, ICC-ES ESR-1917 (CARBON STEEL AND ANSI TYPE 304 STAINLESS STEEL).
19. POST-INSTALLED ADHESIVE ANCHORS: HILTI HAS THREADED RODS, INTERNALLY THREADED INSERTS, OR REBAR WITH HILTI RE 500 SD INJECTION ADHESIVE ANCHORING SYSTEM FOR ANCHORAGE TO CONCRETE, ICC-ES ESR-2322.
20. MINIMUM LAP SPLICE AND DEVELOPMENT LENGTH IN INCHES SHOWN IN TABLE BELOW APPLY TO fc=4000 PSI AND fy = 60,000 PSI. TOP BARS DEFINED AS HORIZONTAL REINFORCEMENT SUCH THAT 12" OF CONCRETE IS CAST BELOW THE SPLICE OR DEVELOPMENT LENGTH. LAP TOP BARS AT MID-SPAN. LAP BOTTOM BARS AT SUPPORTS.

Table with 3 columns: BAR SIZE, SPLICE LENGTH (TOP BARS, OTHER BARS), DEVELOPMENT LENGTH (TOP BARS, OTHER BARS). Rows include bar sizes #3 through #11.

STRUCTURAL STEEL

- 1. ALL MATERIAL AND WORK SHALL CONFORM TO THE "AISC" MANUAL OF STEEL CONSTRUCTION LATEST EDITION, AND "AISC" CODE OF STANDARD PRACTICE, LATEST EDITION.
2. WIDE FLANGE AND WT SECTIONS: ASTM A992, GRADE 50, U.N.O. ALL OTHER SHAPES AND PLATES: ASTM A36 OR A53, GRADE B.
3. SQUARE AND RECTANGULAR TUBING: ASTM A500 GRADE B, Fy=46 KSI. STRUCTURAL ROUND PIPE: ASTM A500 OR A53, GRADE B.
4. BOLTS FOR STRUCTURAL STEEL CONNECTIONS: 3/4" DIAMETER, ASTM A325, REGULAR HIGH STRENGTH BOLTS WITH HARDENED WASHERS. ALL HIGH STRENGTH BOLTS SHALL BE TORQUED PER ASTM A325, UNLESS DETAILED OTHERWISE
5. ANCHOR RODS: ASTM F1554 STEEL OR AS SPECIFIED, WITH EMBEDDED NUT AND WASHER, LEVELING & TOP NUT WITH PLATE WASHERS.
6. WELDING TO BE PERFORMED BY WELDERS THAT ARE AWS CERTIFIED IN TYPE OF WELD CALLED FOR USING LOW HYDROGEN E70 ELECTRODES.
7. CONNECTIONS TO BE DESIGNED IN ACCORDANCE WITH "AISC" STANDARDS. CONNECTION DESIGN SHALL BE BY STEEL FABRICATOR UNLESS SPECIFICALLY DETAILED OTHERWISE. CONNECTIONS SHALL SUPPORT A MINIMUM OF ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY CALCULATED FROM THE TABLES FOR ALLOWABLE UNIFORM LOADS FOR BEAMS IN THE AISC "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
8. ALL OPEN ENDS OF TUBE SECTIONS SHALL BE SUPPLIED WITH A 1/4" SEAL WELDED END PLATE.
9. SUBMIT DETAILED FABRICATION AND ERECTION DRAWINGS FOR ALL WORK. SHOP DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.
10. INTERIOR STRUCTURAL STEEL THAT IS NOT EXPOSED TO VIEW WILL REQUIRE NO PRIMER OR PAINT. EXPOSED STRUCTURAL STEEL TO BE PAINTED PER PAINT SYSTEM SHOWN IN SPECIFICATIONS, SURFACES SHALL BE CLEANED IN ACCORDANCE WITH SSPC RATING PER PAINT MANUFACTURER'S RECOMMENDATIONS.
11. ALL EXTERIOR EXPOSED STRUCTURAL STEEL AND LINTELS TO BE GALVANIZED.

COLD FORMED STEEL FRAMING

- 1. WORK SHALL MEET THE REQUIREMENTS OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITIONS.
2. ALL COLD FORMED STEEL FRAMING MEMBERS TO HAVE GALVANIZED COATING MEETING REQUIREMENTS OF ASTM A653.
3. UNLESS SPECIFICALLY SHOWN OTHERWISE, COLD FORMED STEEL FRAMING SUPPLIER SHALL DESIGN ALL MEMBERS, CONNECTIONS, BRIDGING, BRACING, ETC. AND SHALL INCLUDE DESIGN LOADS NOTED UNDER DESIGN CRITERIA NOTES.
4. THE DESIGN OF THE COLD FORMED STEEL FRAMING SYSTEM SHALL BE BY A PROFESSIONAL ENGINEER. THE SUPPLIER SHALL SUBMIT COMPLETE ERECTION DRAWINGS AND CALCULATIONS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.
5. ISOLATE NON LOAD BEARING SOLD FORMED STEEL FRAMING FROM STRUCTURAL ELEMENTS WITH SLIP JOINT CONNECTIONS BETWEEN COLD FORMED STEEL FRAMING AND STRUCTURE PER MANUFACTURERS STANDARD DETAILS TO PREVENT TRANSFER OF STRUCTURAL LOADS OR MOVEMENTS TO COLD FORMED STEEL FRAMING.
6. BEARING STUDS MUST BE FULLY SEATED AGAINST TRACK WEB.
7. PROVIDE A MINIMUM OF DOUBLE STUD FRAMING AROUND ALL OPENINGS IN WALL SYSTEM.
8. NO SPLICES IN STUDS, JOISTS, OR HEADERS WILL BE PERMITTED.
9. INSTALL HORIZONTAL BRIDGING IN WALL SYSTEM WITH MAXIMUM SPACING AT 4'-0" O.C.

STRUCTURAL LUMBER

- 1. LUMBER FOR 2x6'S AND LARGER SHALL BE NO. 2 AND BETTER DOUGLAS FIR-LARCH.
2. LUMBER FOR 2x4'S SHALL BE STUD GRADE OR BETTER HEM-FIR OR S-P-F.
3. ROOF SHEATHING SHALL BE CD 32/16 APA EXPOSURE 1 WITH PLYCLIPS AT ALL UNSUPPORTED EDGES. ROOF SHEATHING SHALL BE OF THICKNESS AS NOTED IN THE DRAWINGS.
4. WALL SHEATHING SHALL BE 1/2" CD 32/16 APA EXPOSURE 1. SHEATHING SHALL BE LAYED OUT SO VERTICAL EDGE BREAK CENTERED ON FACE OF STUD AND HORIZONTAL EDGES SHALL BE SUPPORTED BY BLOCKING.
5. SILLS, BLOCKING, FURRING AND SIMILAR ITEMS IN DIRECT CONTACT WITH MASONRY OR CONCRETE TO BE TREATED S.Y.P
6. UNLESS SPECIFICALLY NOTED OTHERWISE, NAIL PLYWOOD ROOF SHEATHING AT 4' O.C. AT EDGES OF PANELS AND 12' O.C. AT INTERMEDIATE SUPPORTS WITH 8d NAILS. LEAVE 1/16" SPACING AT ALL ENDS AND EDGES. APPLY PLYWOOD WITH GRAIN PERPENDICULAR TO THE JOISTS.
7. 2x ROOF JOISTS/RAFTERS SHALL BE RIDGEDLY BRACED WITH CONTINUOUS ROWS OF BRIDGING AT INTERVALS NOT EXCEEDING 8 FEET.
8. FRAMING PLANS SHOW PRIMARY FRAMING MEMBERS, SIZES AND SUPPORTS. FRAMER SHALL PROVIDE AND INSTALL ALL FRAMING REQUIRED (WHETHER SPECIFICALLY SHOWN OR NOT) FOR HEADERS, NAILERS, CORNERS, PARTITION SUPPORTS, GELING JOISTS, BRIDGING, ETC.

SPECIAL INSPECTIONS

- 1. CONTRACTOR TO COORDINATE SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC 2012 SECTION 1705. AS NOTED BELOW, SPECIAL INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION FIRM UNDER THE SUPERVISION OF A LICENSED ENGINEER AND APPROVED BY THE BUILDING OFFICIAL AND ARCHITECT & ENGINEER OF RECORD.
2. SPECIAL INSPECTOR SHALL OBSERVE WORK FOR CONFORMANCE w/ DESIGN DRAWINGS & SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. UNCORRECTED DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT & ENGINEER OF RECORD.
3. MONTHLY INSPECTION REPORTS SHALL BE PROVIDED TO BUILDING OFFICIAL AND ARCHITECT & ENGINEER OF RECORD.
4. SPECIAL INSPECTION REQUIREMENTS INCLUDE THE FOLLOWING:
- STRUCTURAL STEEL PER SECTION 1705.2 AND AISC 360
- STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL PER TABLE 1705.2.2.
- WELDING OF STRUCTURAL STEEL PER SECTION 1705.2, AISC 360, AND AWS D1.1. WELDING OF COLD FORMED STEEL FLOOR AND ROOF DECK PER TABLE 1705.2.2 AND AWS D1.3.
- CONCRETE CONSTRUCTION PER SECTION 1705.3 AND TABLE 1705.3. EXCEPTIONS 1 AND 2 NOT ALLOWED.
- STRUCTURAL MASONRY PER SECTION 1705.4, TMS 402/ACI 530/ASCE 5, AND TMS 602/ACI 530.1/ASCE 6.
- SOIL EXCAVATIONS AND FILLING PER SECTION 1705.6 AND GEOTECHNICAL REPORT.
- POST INSTALLED EXPANSION AND ADHESIVE ANCHOR INSTALLATION IN ACCORDANCE WITH ICBO REPORTS NOTED THIS SHEET.



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REVISION SCHEDULE table with columns #, Description, Date

CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

GENERAL STRUCTURAL NOTES

SO-0

- NOTES**
- SEE DWG. S0-0 FOR ADDITIONAL INFORMATION.
  - E.W. - DENOTES EACH WAY
  - U.N.O. - DENOTES UNLESS NOTED OTHERWISE
  - O.C. - DENOTES ON CENTER
  - A.B. - DENOTES ANCHOR BOLT
  - T&B - DENOTES TOP AND BOTTOM
  - W.W.F. - DENOTES 6x6 W2.9xW2.9 WELDED WIRE FABRIC
  - TOP OF FOOTINGS ELEVATION = ##'-#" UNLESS NOTED THUSLY:  
T/FTG.  
EL. = ##'-#"
  - SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS NOT SHOWN
  - DENOTES FOOTING TYPE, SEE SCHEDULE 1/S2-1

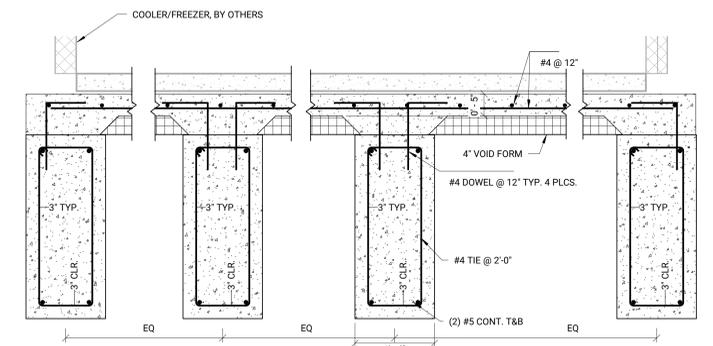
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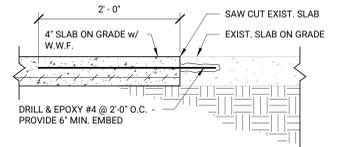
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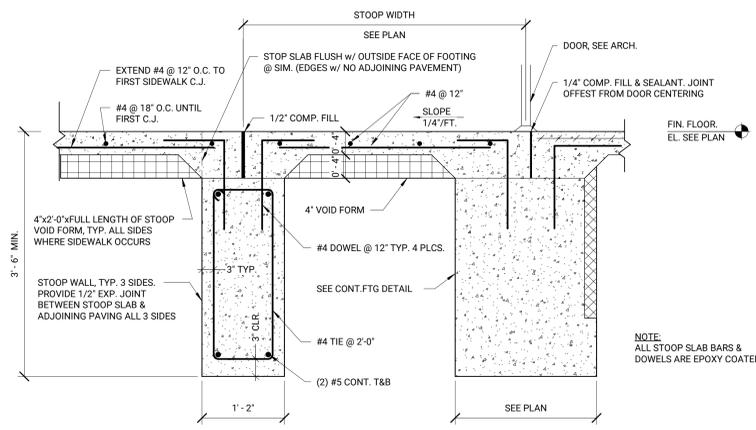
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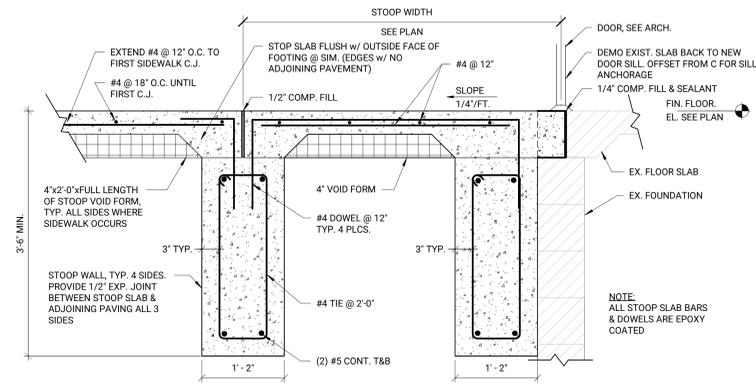
**5 COOLER FOUNDATION**  
S1-0 3/4" = 1'-0" 0' 1' 1'-4" 2'-8"



**6 NEW TO EXISTING SLAB DETAIL**  
S1-0 1" = 1'-0" 0' 1' 2'



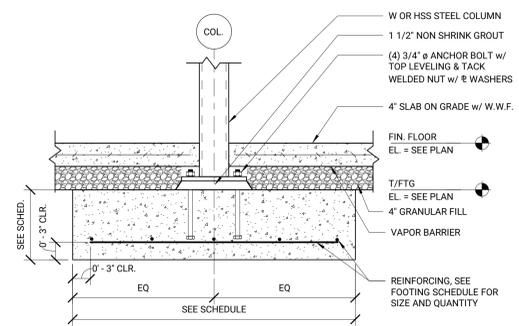
**4 STOOP DETAIL**  
S1-0 1" = 1'-0" 0' 1' 2'



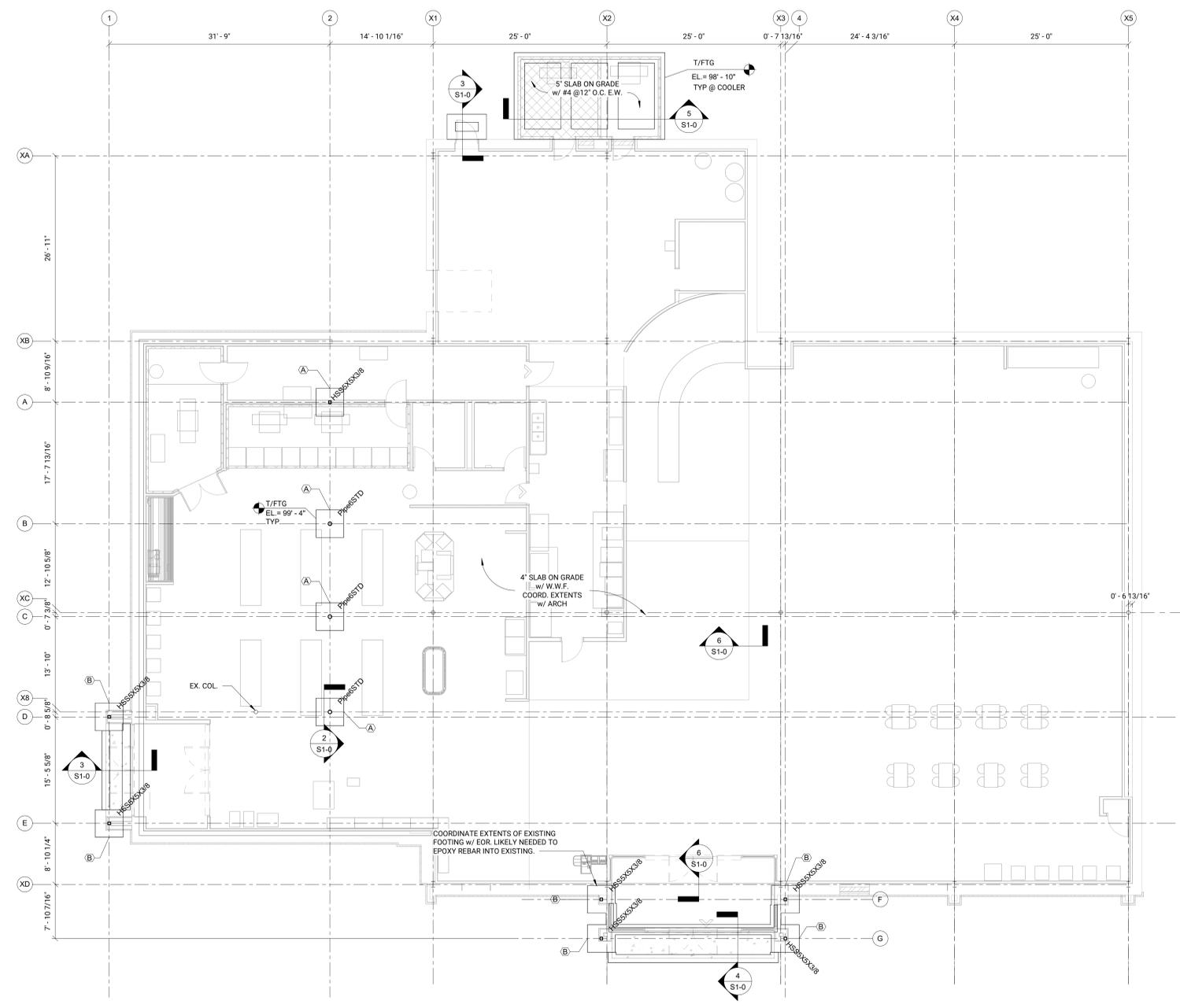
**3 STOOP AT EXISTING STRUCTURE DETAIL**  
S1-0 1" = 1'-0" 0' 1' 2'

**Structural Foundation Schedule**

Type Mark	Length	Width	Depth	Reinforcement
A	4'-0"	4'-0"	1'-0"	(5) #5 BARS E.W.
B	4'-0"	4'-0"	3'-6"	(5) #5 BARS E.W. T&B



**2 CONCRETE FOOTING DETAIL**  
S1-0 1" = 1'-0" 0' 1' 2'



**1 FOUNDATION PLAN**  
S1-0 1/8" = 1'-0" 0' 8' 12'

**REVISION SCHEDULE**

#	Description	Date

**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

**FOUNDATION PLAN**



**PROJECT TEAM**

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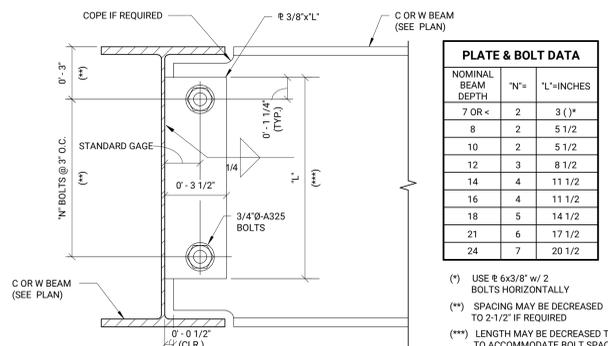
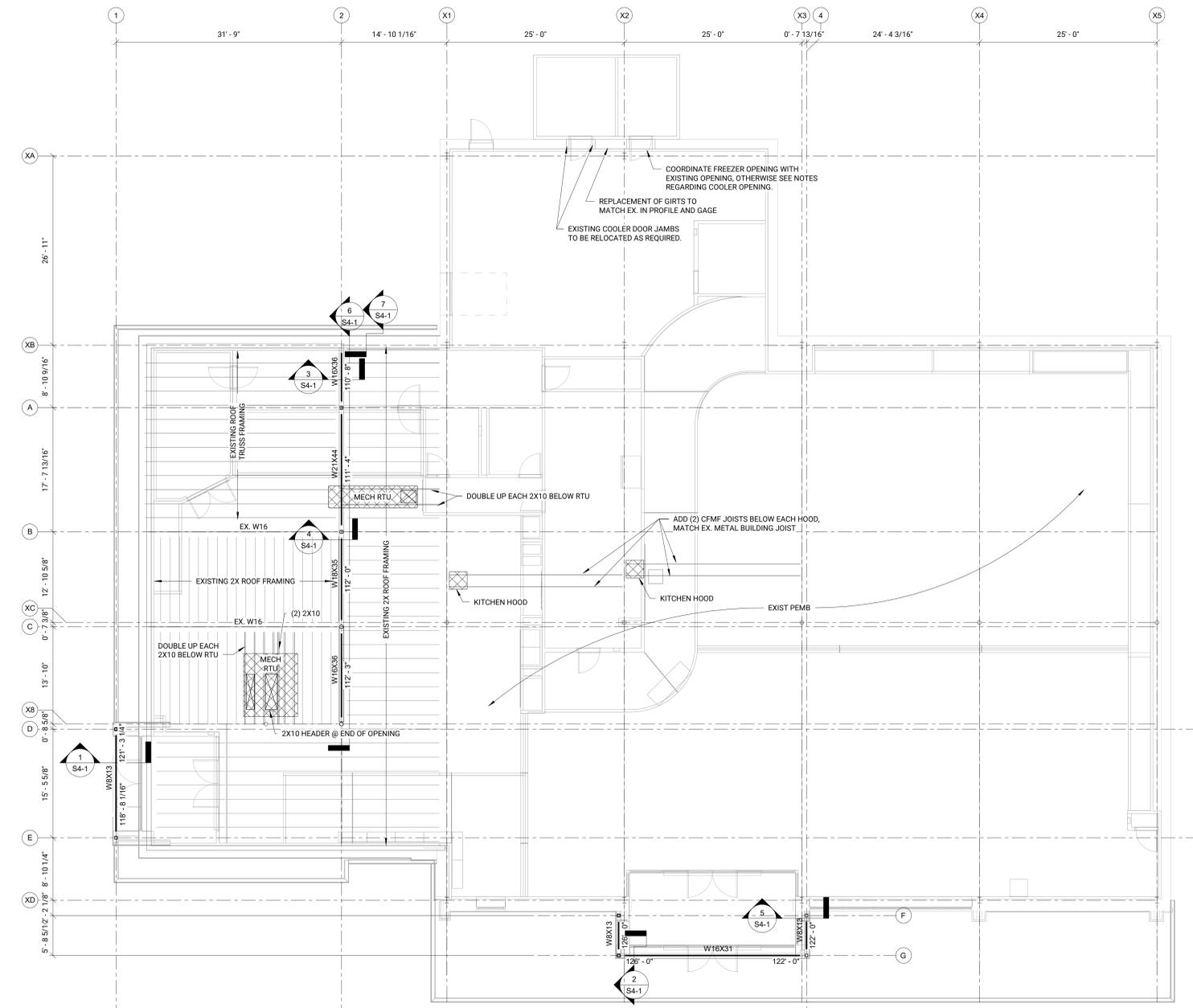
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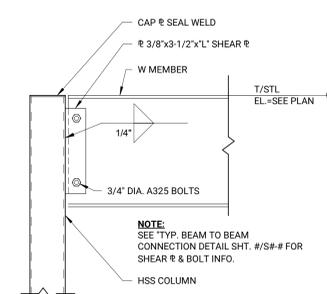


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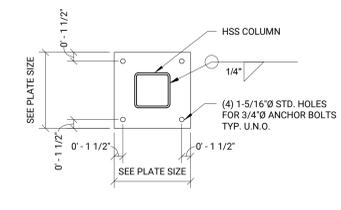
- SEE DWG. S0-0 FOR ADDITIONAL INFORMATION.
- U.N.O. - DENOTES: UNLESS NOTED OTHERWISE
- W.P. - DENOTES: WORKING POINT
- H.P. - DENOTES: HIGH POINT
- L.P. - DENOTES: LOW POINT
- O.C. - DENOTES: ON CENTER
- - DENOTES: BEAM FRAMING INTO COLUMN
- ▢ - DENOTES: BEAM OVER COLUMN
- W.8x13 111.37 - DENOTES: T/ STL. ELEVATION. IF ONLY (1) IS SHOWN, T/ STL. ELEVATION SAME AT BOTH ENDS



**4** TYPICAL BEAM TO BEAM CONNECTION DETAIL - SHEAR PLATE  
S1/2 3' = 1'-0" 10' 1" 4" 18"



**3** TYP. BEAM TO HSS COLUMN DETAIL  
S1/2 1" = 1'-0" 10' 1" 1" 12"



COLUMN SIZE	BASE PLATE SIZE
HSS 6x6x3/8	1/2x12x1'-0"

**2** BASE PLATE DETAIL  
S1/2 1" = 1'-0" 10' 1" 1" 12"

**1** FRAMING PLAN  
S1/2 1/8" = 1'-0" 10' 1" 8" 16"

REVISION SCHEDULE		
#	Description	Date

**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

**FRAMING PLAN**

**S1-2**

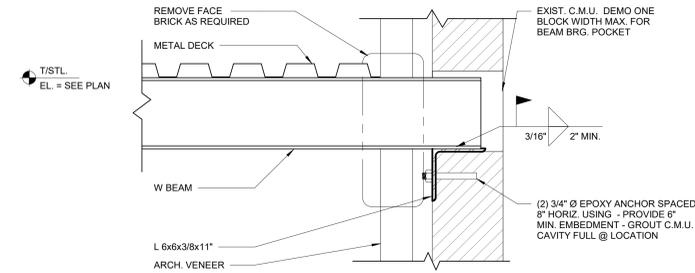
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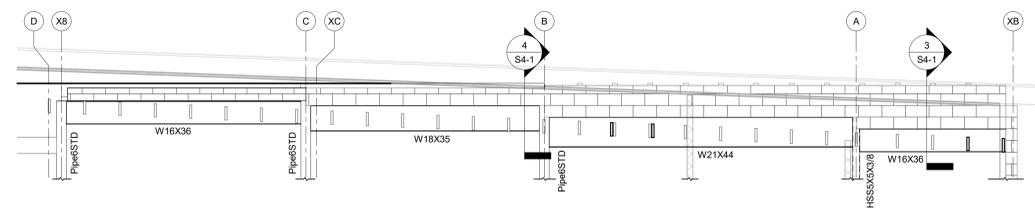
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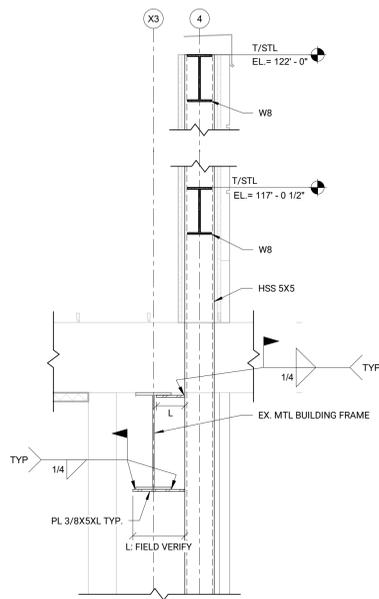
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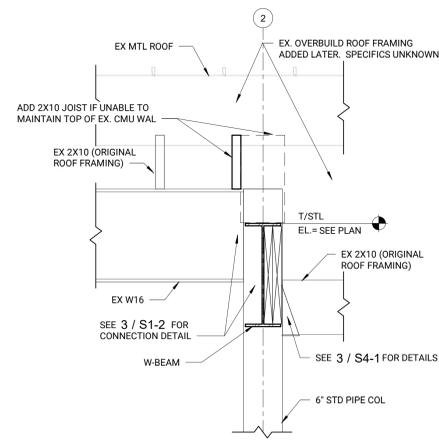
**7 BEAM BEARING @ EX. WALL DETAIL**  
S4-1 1 1/2" = 1'-0" 0' 1' 8" 1'-4"



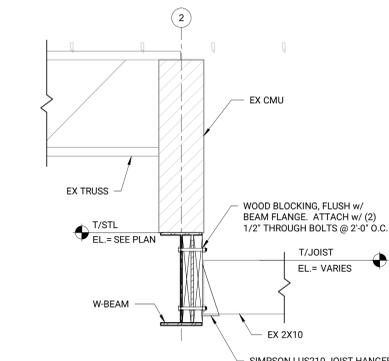
**6 FRAMING ELEVATION**  
S4-1 1/4" = 1'-0" 0' 1' 4" 8"



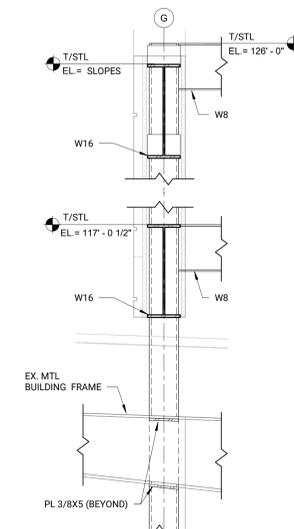
**5 COL TO EX. MTL BUILDING CONNECTION**  
S4-1 1" = 1'-0" 0' 1' 2"



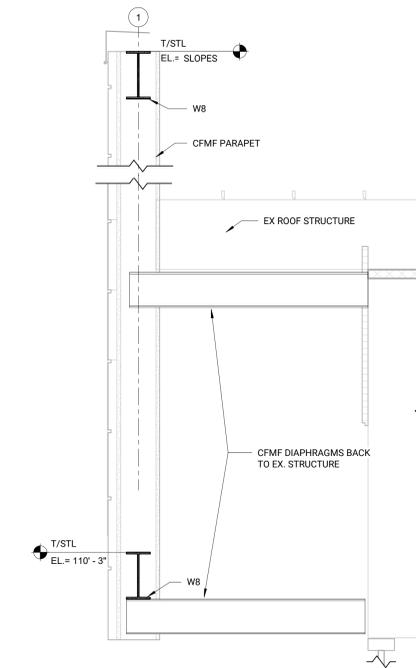
**4 NEW COLUMN DETAIL**  
S4-1 1" = 1'-0" 0' 1' 2"



**3 2X JOIST SUPPORT**  
S4-1 1" = 1'-0" 0' 1' 2"



**2 ENTRY PARAPET FRAMING**  
S4-1 1" = 1'-0" 0' 1' 2"



**1 PARAPET FRAMING**  
S4-1 1" = 1'-0" 0' 1' 2"

REVISION SCHEDULE		
#	Description	Date

**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

**STEEL DETAILS**

**S4-1**

ENERGY CODE COMPLIANCE		
CODE	2018 IECC	REMARKS
ComCHECK	YES	(1)
COMMISSIONING	YES	(2) (3) (4)
TAB REPORT	YES	(3) (4)

- REMARKS:
1. ComCHECK COMPLIANCE REPORT CAN BE FOUND IN THE PROJECT MANUAL.
  2. COMMISSIONING IS REQUIRED.
  3. REQUIRED DOCUMENTS (REFER TO CODE) SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER REPRESENTATIVE WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
  4. SEE RESPECTIVE SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

**GENERAL MECHANICAL NOTES**

1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
2. MAINTAIN MINIMUM 10'-0" CLEARANCE TO EXHAUST FANS FROM ALL FRESH AIR INTAKES.
3. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
4. COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
5. UNLESS OTHERWISE NOTED, ROUTE DUCTWORK AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
6. PLANS ARE SCHEMATIC IN NATURE. DUCTWORK ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
7. INSTALL ALL VOLUME DAMPERS, ETC. ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
8. CENTER DIFFUSERS, REGISTERS, AND GRILLES IN CEILING TILES WHERE 24X24 OR 24X12 CEILING DEVICES ARE NOT USED.
9. CONTRACTOR TO PROVIDE ALL LOW VOLTAGE AND LINE VOLTAGE CONTROL WIRING REQUIRED FOR COMPLETE OPERATION OF ALL MECHANICAL EQUIPMENT.
10. FOR GENERAL DUCTWORK FITTINGS, SEE DETAIL 1 ON SHEET M4-1.
11. RUN OUTS TO DIFFUSERS AND REGISTERS SHALL MATCH NECK SIZE UNLESS OTHERWISE NOTED. SEE DETAIL 2 ON SHEET M4-1.
12. SEE ELECTRICAL DRAWINGS DEVICE ALIGNMENT DETAIL FOR ALL SENSOR AND/OR CONTROL DEVICE INSTALLATION HEIGHTS AND SPACING NOTES UNLESS OTHERWISE NOTED. IF DEVICE ALIGNMENT DETAIL NOT AVAILABLE, MOUNT AT PREFERRED MOUNTING HEIGHT WHERE APPLICABLE. SEE SPECIFICATIONS, OR CONFIRM WITH ENGINEER PRIOR TO INSTALLATION.

**GENERAL PLUMBING NOTES**

1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
2. MAINTAIN MINIMUM 10'-0" CLEARANCE TO WASTE VENTS FROM ALL FRESH AIR INTAKES.
3. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
4. COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
5. UNLESS OTHERWISE NOTED, ROUTE PIPING AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
6. PLANS ARE SCHEMATIC IN NATURE. PIPE ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
7. INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
8. DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS UNLESS OTHERWISE NOTED. PIPING ROUTED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION.
9. ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE. NOT ALL SIDEWALL RETURN OR EXHAUST NECKSIZE (IN), TAG AIRFLOW (CFM) REGISTER OR GRILLE SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE. NOT ALL CLEANOUTS SHOWN. PROVIDE CLEANOUTS AS REQUIRED PER AUTHORITY HAVING JURISDICTION. COORDINATE CLEANOUT LOCATIONS WITH GENERAL CONTRACTOR.
10. SEE WASTE AND VENT RISER DIAGRAMS ON SHEET M3-1 FOR COMPLETE PLUMBING SIZES AND CONFIGURATION.
11. SEE PLUMBING FIXTURE SCHEDULE SHEET M2-2 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.

**GENERAL DEMOLITION NOTES**

1. ALL MECHANICAL ITEMS SHOWN ARE EXISTING. NOT ALL EXISTING MECHANICAL ITEMS ARE SHOWN. ITEMS MARKED (E) SHALL REMAIN AS IS UNLESS OTHERWISE NOTED. REMOVE ITEMS SHOWN DASHED AND/OR MARKED (D). RELOCATE ITEMS MARKED (R).
2. EXISTING DRAWINGS ARE BASED ON APPROXIMATIONS FROM FIELD OBSERVATIONS. DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION AND INSTALLATION OF NEW WORK. CONTACT ARCHITECT/ENGINEER IF EXISTING CONDITIONS SIGNIFICANTLY VARY FROM THOSE SHOWN.
3. HOLES CUT IN WALLS, FLOORS, AND CEILINGS TO PERMIT THE REMOVAL OF EQUIPMENT, PIPING, ETC. SHALL BE CAREFULLY MADE AND RESTRICTED TO THE SMALLEST PRACTICAL SIZE. PATCH ALL HOLES NOT REQUIRED FOR NEW WORK TO MATCH EXISTING.
4. THE OWNER RESERVES THE FIRST RIGHT OF SALVAGE OF ANY ITEMS REMOVED. CONTRACTOR SHALL REMOVE ALL UNWANTED MATERIALS FROM THE SITE. OWNERS DUMPSTER OR OTHER TRASH RECEPTACLES ARE NOT TO BE UTILIZED.
5. COORDINATE PHASING OF DEMOLITION AND REMOVAL WITH GENERAL CONTRACTOR. PLAN ALL WORK TO MINIMIZE SHUT DOWNS. WHERE APPLICABLE, COORDINATE EXTENT OF DEMOLITION WORK WITH NEW WORK.

MECHANICAL SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
TYPICAL PIPING			
1" T	PIPE TEE / PIPE ELBOW	UNION	
ELBOW DN / ELBOW UP		STRAINER	
ISOLATION VALVE (BALL OR BUTTERFLY)		CHECK VALVE (ARROW INDICATES FLOW)	
BALANCING VALVE		AUTOMATIC CONTROL VALVE TWO-WAY/THREE-WAY	
GATE VALVE		PRESSURE REGULATING VALVE (PRV)	
CLOCK VALVE		PRESSURE GAUGE	
PRESSURE/TEMPERATURE TEST PORT		THERMOMETER	
TYPICAL PLUMBING			
WC	WATER CLOSET (SEE SPECIFICATIONS FOR TYPE)	GAS COOK	
UR	URINAL (SEE SPECIFICATIONS FOR TYPE)	FLOOR DRAIN - SIZE TYPE	
L	LAVATORY (SEE SPECIFICATIONS FOR TYPE)	ROOF DRAIN - SIZE TYPE	
S	SINK (SEE SPECIFICATIONS FOR TYPE)	OVERFLOW DRAIN - SIZE TYPE	
EW	ELECTRIC WATER COOLER (SEE SPECIFICATIONS FOR TYPE)	HOSE BIBB	
MS	MOP SINK (SEE SPECIFICATIONS FOR TYPE)	WALL HYDRANT (NON-FREEZE)	
DI	DUCTILE IRON	VENT THROUGH ROOF	
CI	CAST IRON	INVERT ELEVATION	
PVC	POLY VINYL CHLORIDE	FLOW LINE	
AV	AIR VENT		
HVAC			
SIDEWALL SUPPLY REGISTER OR GRILLE	NECKSIZE (IN), TAG AIRFLOW (CFM)	SENSOR	
SIDEWALL RETURN OR EXHAUST REGISTER OR GRILLE	NECKSIZE (IN), TAG AIRFLOW (CFM)	THERMOSTAT	
SUPPLY AIR REGISTER	NECKSIZE (IN), TAG AIRFLOW (CFM)	HUMIDISTAT	
SUPPLY AIR, OUTSIDE AIR OR MIXED AIR DUCT END OR RISER UP/RISER DN		CARBON DIOXIDE SENSOR	
RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP/RISER DN		OCCUPANCY SENSOR	
RECTANGULAR DUCTWORK (WIDTH/DEPTH)(IN) (FIRST NUMBER IS SIDE SHOWN)		MOTORIZED CONTROL DAMPER WITH ACTUATOR	
ROUND DUCTWORK (DIAMETER)(IN) (SPIRAL DUCT IN EXPOSED AREAS)		BACKDRAFT DAMPER	
		VOLUME DAMPER	
		FIRE DAMPER WITH SLEEVE AND ACCESS DOOR	
		SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR	
		FRESH-SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR	
		TURNING VANES	

MECHANICAL SHEET LIST	
Sheet Number	Sheet Name
M0-0	MECHANICAL COVERSHEET
MD1-1	FLOOR PLAN - MECHANICAL DEMOLITION
M1-1	FLOOR PLAN - HVAC
M1-2	ROOF PLAN - MECHANICAL
M2-0	FLOOR PLAN - UNDERGROUND PLUMBING
M2-1	FLOOR PLAN - PLUMBING
M3-1	WASTE AND VENT RISER DIAGRAM
MA-1	MECHANICAL DETAILS
MA-2	MECHANICAL DETAILS
M5-1	MECHANICAL SCHEDULES
M5-2	PLUMBING FIXTURE SCHEDULE
M6-1	SUPPLEMENTAL MECHANICAL DRAWINGS
M6-2	SUPPLEMENTAL MECHANICAL DRAWINGS
M6-3	SUPPLEMENTAL MECHANICAL DRAWINGS

PIPING ABBREVIATIONS	
DESCRIPTION	ABBV.
Condensate	CD
Domestic Cold Soft Water	SCW
Domestic Cold Water	CW
Domestic Hot Water	HW
Domestic Hot Water 140"	140" HW
Domestic Hot Water Retric	HWC
Domestic Hot Water Retric 140"	140" HWC
Gresse	GW
Gresse Vent	GV
Natural Gas	G
Sanitary	W
Sanitary Above Grade	W
Vent	V

DUCT ABBREVIATIONS	
DESCRIPTION	ABBV.
Combustion Air	CA
Exhaust Air	EA
Flue	FLUE
Gresse Exhaust	GX
Make-Up Air	MUA
Return Air	RA
Supply Air	SA



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CUBBY'S INC.

**MECHANICAL COVERSHEET**

**M0-0**

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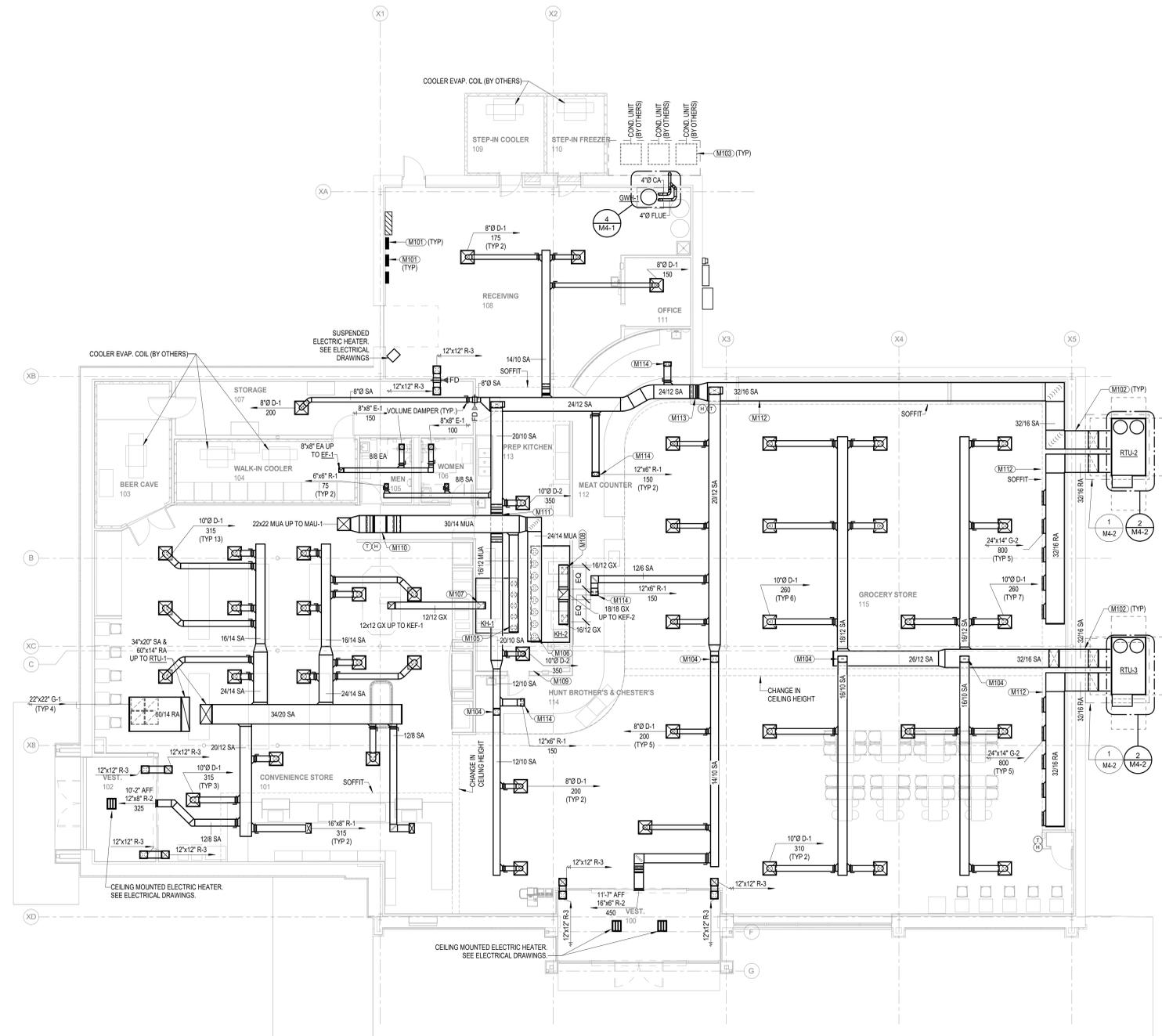
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**KEYNOTES**

- M101 DO NOT ROUTE DUCTWORK OVER ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- M102 BOTTOM OF EXTERIOR DUCT SHALL ROUTE THRU WALL AT 7'-7" A.F.F. COORDINATE WITH EXISTING STRUCTURE AND INTERIOR SOFFIT ELEVATION.
- M103 PROPOSED LOCATION OF AIR COOLED CONDENSING UNITS FOR WALK-IN COOLER / FREEZER. BY OTHERS. COORDINATE LOCATION WITH FOOD SERVICE PROVIDER.
- M104 TRANSITION SUPPLY AIR UP AND ROUTE ABOVE HIGHER CEILING. COORDINATE ELEVATIONS WITH ARCHITECTURAL.
- M105 PROVIDE 10"0 MAKEUP AIR DOWN TO KH-1. BALANCE VOLUME DAMPER TO 196 CFM (TYPICAL 5).
- M106 PROVIDE 12"0 MAKEUP AIR DOWN TO KH-2. BALANCE VOLUME DAMPER TO 279 CFM (TYPICAL 6).
- M107 PROVIDE 10"11 KITCHEN GREASE EXHAUST DOWN TO CONNECTION ON KH-1.
- M108 PROVIDE 10"12 KITCHEN GREASE EXHAUST DOWN TO CONNECTION ON KH-2. (TYPICAL 2)
- M109 PROVIDE TYPE 1 KITCHEN HOOD FIRE SUPPRESSION PULL STATION. PULL STATION SHALL OPERATE A SINGLE FIRE SUPPRESSION SYSTEM FOR BOTH HOODS. COORDINATE FINAL LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
- M110 TRANSITION MAKEUP AIR DOWN BELOW EXISTING STRUCTURE.
- M111 TRANSITION SUPPLY AIR DOWN AND ROUTE BELOW MAKEUP AIR. COORDINATION EXACT ELEVATION WITH FIELD CONDITIONS AND CEILING HEIGHTS.
- M112 ROUTE DUCTWORK IN SOFFIT ABOVE COOLERS.
- M113 TRANSITION SUPPLY AIR UP AND ROUTE ABOVE MEAT COUNTER CEILING.
- M114 DIFFUSER SHALL BE FIELD PAINTED TO MATCH CEILING. COORDINATE EXACT COLOR WITH ARCHITECT AND GENERAL CONTRACTOR.



**1 FLOOR PLAN - HVAC**  
1/8" = 1'-0" 0' 8' 16'

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CUBBY'S INC.

**FLOOR PLAN - HVAC**

**M1-1**

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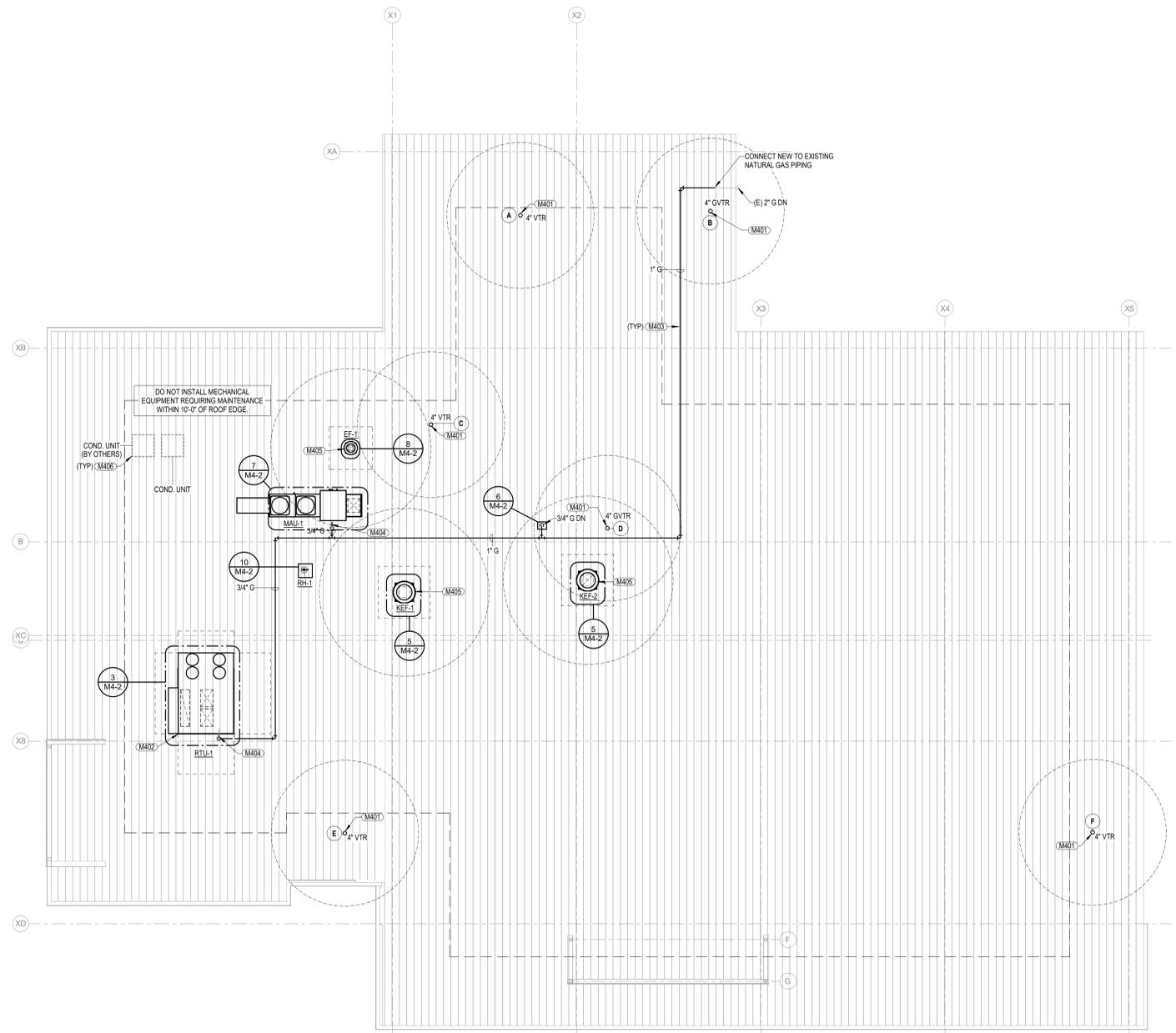
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**KEYNOTES**

- M401 FLASH AND SEAL VENT THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN 10'-0" CLEARANCE BETWEEN VENT AND ANY BUILDING AIR INTAKE.
- M402 SET ROOFTOP UNIT ON ROOF CURB PER MANUFACTURER'S INSTRUCTIONS. VERIFY EXACT LOCATION OF UNIT WITH GENERAL CONTRACTOR. STRUCTURE AND ACTUAL ROOFTOP UNIT PROVIDED. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
- M403 GAS PIPING ON ROOF. SUPPORT GAS PIPING WITH PIPE STANDS (PIPE PIER ELITE OR APPROVED EQUAL). SEE SPECIFICATIONS FOR SPACING REQUIREMENTS. COORDINATE ROUTING WITH ROOFING CONTRACTOR AND LOCATION OF ROOF MOUNTED EQUIPMENT.
- M404 CONNECT GAS PIPING TO ROOF TOP UNIT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE GAS COCK, PRESSURE REGULATOR AND DIRT LEG PRIOR TO FINAL CONNECTION OF EQUIPMENT.
- M405 INSTALL ROOF EXHAUST PER MANUFACTURER'S RECOMMENDATION. MINIMUM 10'-0" CLEARANCE REQUIRED BETWEEN ANY POINT OF THE BUILDING EXHAUST AND BUILDING AIR INTAKE. COORDINATE EXACT LOCATION OF ROOF PENETRATION WITH STRUCTURE AND GENERAL CONTRACTOR.
- M406 PROPOSED LOCATION OF AIR COOLED CONDENSING UNITS FOR WALK-IN COOLER / FREEZER. BY OTHERS. COORDINATE LOCATION WITH FOOD SERVICE PROVIDER.



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**ROOF PLAN - MECHANICAL**

**1 ROOF PLAN - MECHANICAL**  
M1-2 1/8" = 1'-0" 0' 8' 16'

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**M1-2**

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KEYNOTES

- M302 CONNECT NEW SANITARY SEWER TO EXISTING MAIN. COORDINATE EXACT LOCATION AND INVERT WITH EXISTING CONDITIONS.
- M303 CONNECT NEW DISCHARGE TO EXISTING SUMP PUMP. EXTEND NEW DISCHARGE THROUGH EXISTING TUNNELS AND ROUTE TO MOP SINK.
- M313 UTILIZE EXISTING UTILITY TUNNEL FOR PIPE ROUTING WHERE POSSIBLE.
- M318 SANITARY PIPING FROM FLOOR SINK TO SANITARY MAIN SHALL BE SCHEDULE 40 PVC FOR CORROSIVE SODA WASTE.



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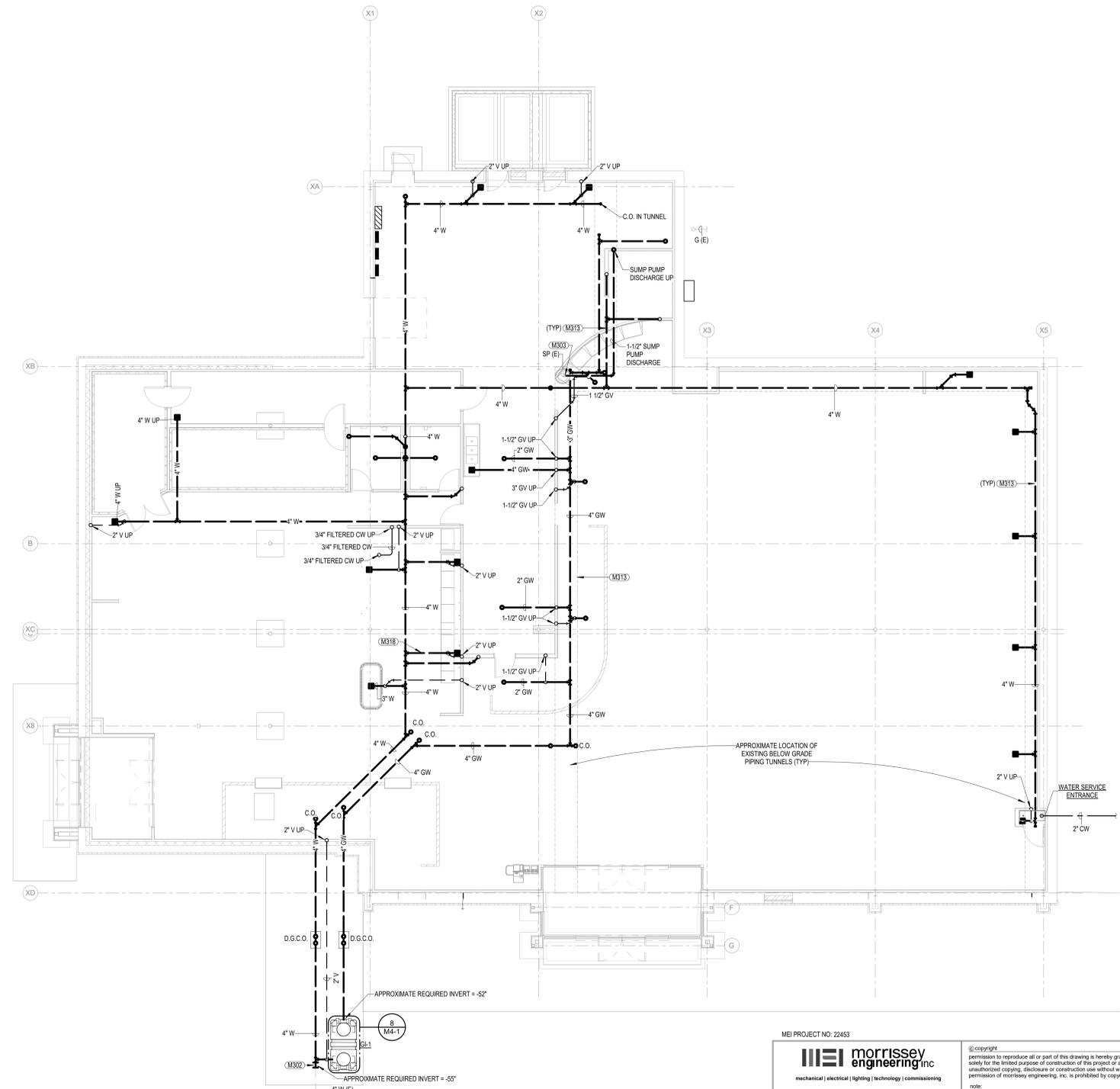
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FLOOR PLAN - UNDERGROUND PLUMBING

1 FLOOR PLAN - UNDERGROUND PLUMBING  
M2-0 1/8" = 1'-0" 0' 8' 16'

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M2-0

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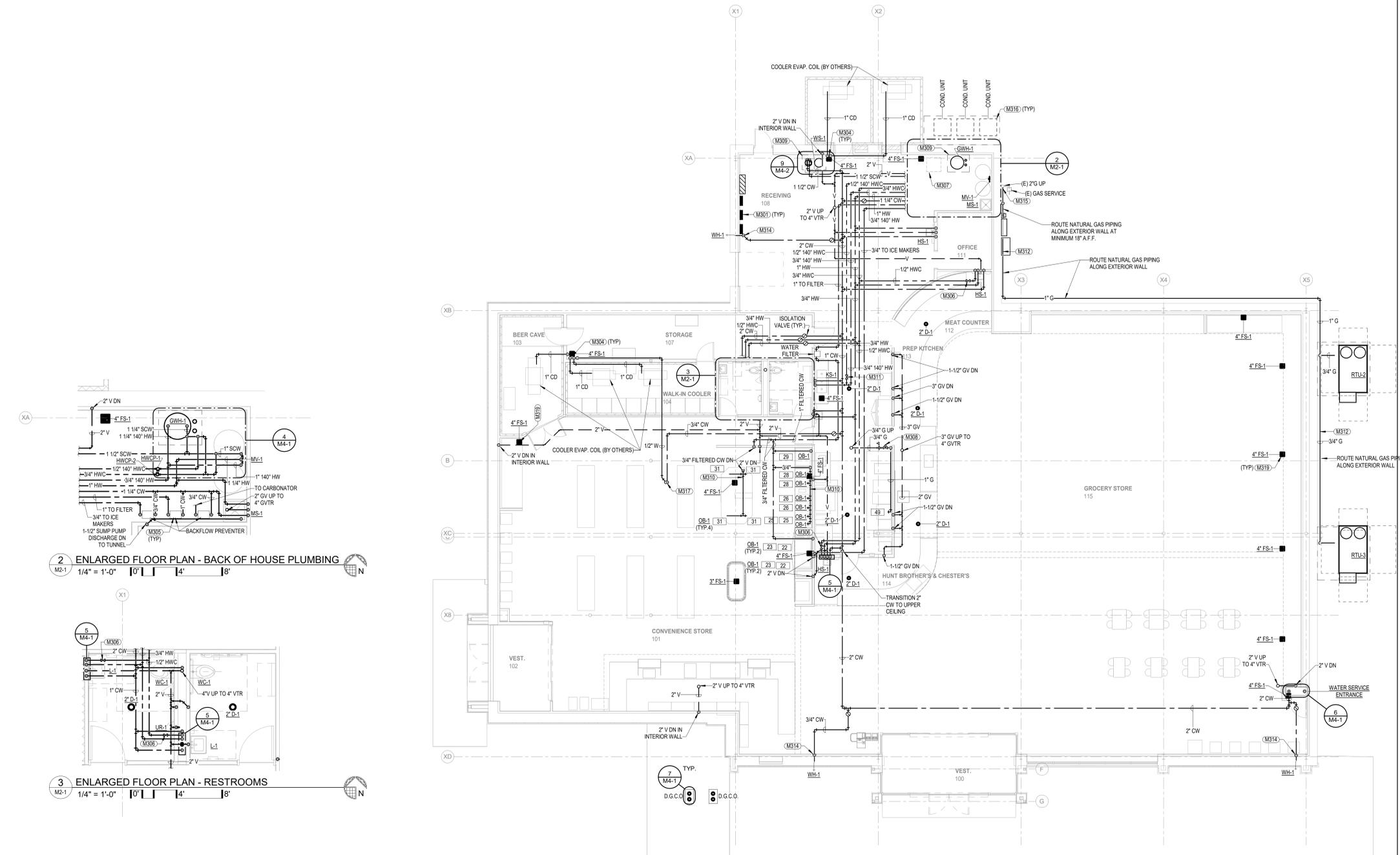
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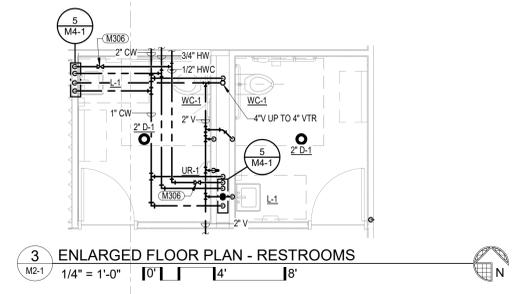


**KEYNOTES**

- M301 DO NOT ROUTE PIPING OVER ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- M304 DRAIN CONDENSATE INDIRECT TO MOP SINK/FLOOR DRAIN. MAINTAIN MINIMUM REQUIRED AIR GAP.
- M305 PROVIDE BACKFLOW PREVENTER IN ACCESSIBLE LOCATION. ROUTE DRAIN TO NEAREST FLOOR SINK. MAINTAIN MINIMUM REQUIRED AIR GAP. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET MS-1.
- M306 PROVIDE 1/2 GPM BALANCE VALVE IN ACCESSIBLE LOCATION.
- M307 APPROXIMATE LOCATION OF EXISTING UTILITY TUNNEL. ACCESS. ROUTE DRAINS AND RELIEF FROM WATER HEATER AROUND ACCESS. DO NOT IMPEDE ON THE SPACE REQUIRED TO REMOVE ACCESS COVER.
- M308 PROVIDE MANUAL ISOLATION VALVE, PRESSURE REGULATOR (VENT OUTSIDE) AS REQUIRED, AND AUTOMATIC GAS SHUT-OFF VALVE. INSTALL AUTOMATIC GAS SHUT-OFF VALVE IN ACCESSIBLE LOCATION ABOVE CEILING. INTERLOCK WITH HOOD FIRE SUPPRESSION SYSTEM. PROVIDE ALL REQUIRED COMPONENTS AND WIRING.
- M309 PROVIDE 4" HOUSEKEEPING PAD BELOW EQUIPMENT.
- M310 ROUTE FILTERED WATER BELOW CASEWORK TO EQUIPMENT. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DETAILS.
- M311 PROVIDE 1.0 GPM BALANCE VALVE IN ACCESSIBLE LOCATION.
- M312 COORDINATE NATURAL GAS ROUTING ALONG EXTERIOR WALL WITH EXISTING GUTTER DOWNSPOUTS. ROUTE BELOW ELECTRICAL EQUIPMENT.
- M314 PROVIDE NEW WALL HYDRANT AT PREVIOUS WALL HYDRANT LOCATION. ROUTE CW PIPING DOWN IN INTERIOR WALL TO WALL HYDRANT. WATER PIPING SHALL BE ROUTED ON THE INSIDE OF INSULATION/CONDITIONED SIDE.
- M315 CONNECT NEW NATURAL GAS PIPING TO EXISTING NATURAL GAS PIPING ON EXTERIOR WALL. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING BEFORE CONNECTION.
- M316 PROPOSED LOCATION OF AIR COOLED CONDENSING UNITS FOR WALK-IN COOLER/FREEZER BY OTHERS. COORDINATE LOCATION WITH FOOD SERVICE PROVIDER.
- M317 ROUTE 3/4" CW AND 1/2" W UP TO RH-1.
- M319 COORDINATE EXACT LOCATION OF FLOOR SINK WITH REACH-IN COOLER EQUIPMENT AND EQUIPMENT PROVIDER.



**2 ENLARGED FLOOR PLAN - BACK OF HOUSE PLUMBING**  
M2-1 1/4" = 1'-0" 0' 1' 4' 8'



**3 ENLARGED FLOOR PLAN - RESTROOMS**  
M2-1 1/4" = 1'-0" 0' 1' 4' 8'

**1 FLOOR PLAN - PLUMBING**  
M2-1 1/8" = 1'-0" 0' 1' 8' 16'

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CUBBY'S INC.

**FLOOR PLAN - PLUMBING**

**M2-1**

CONSTRUCTION DOCUMENTS  
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**RISER GENERAL NOTES**

1. ALL WASTE AND VENT PIPING SHALL BE IN CONFORMANCE WITH THE LOCAL PLUMBING CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
2. NOT ALL CLEANOUTS SHOWN. PROVIDE CLEANOUTS AS REQUIRED BY CODE.
3. PROVIDE MATERIAL AS ALLOWED BY THE LOCAL PLUMBING CODE AND LOCAL AUTHORITY HAVING JURISDICTION AND APPLICABLE SPECIFICATIONS.
4. RISERS ARE GRAPHICAL AND SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE COORDINATED WITH OTHER TRADES.

**PROJECT TEAM**

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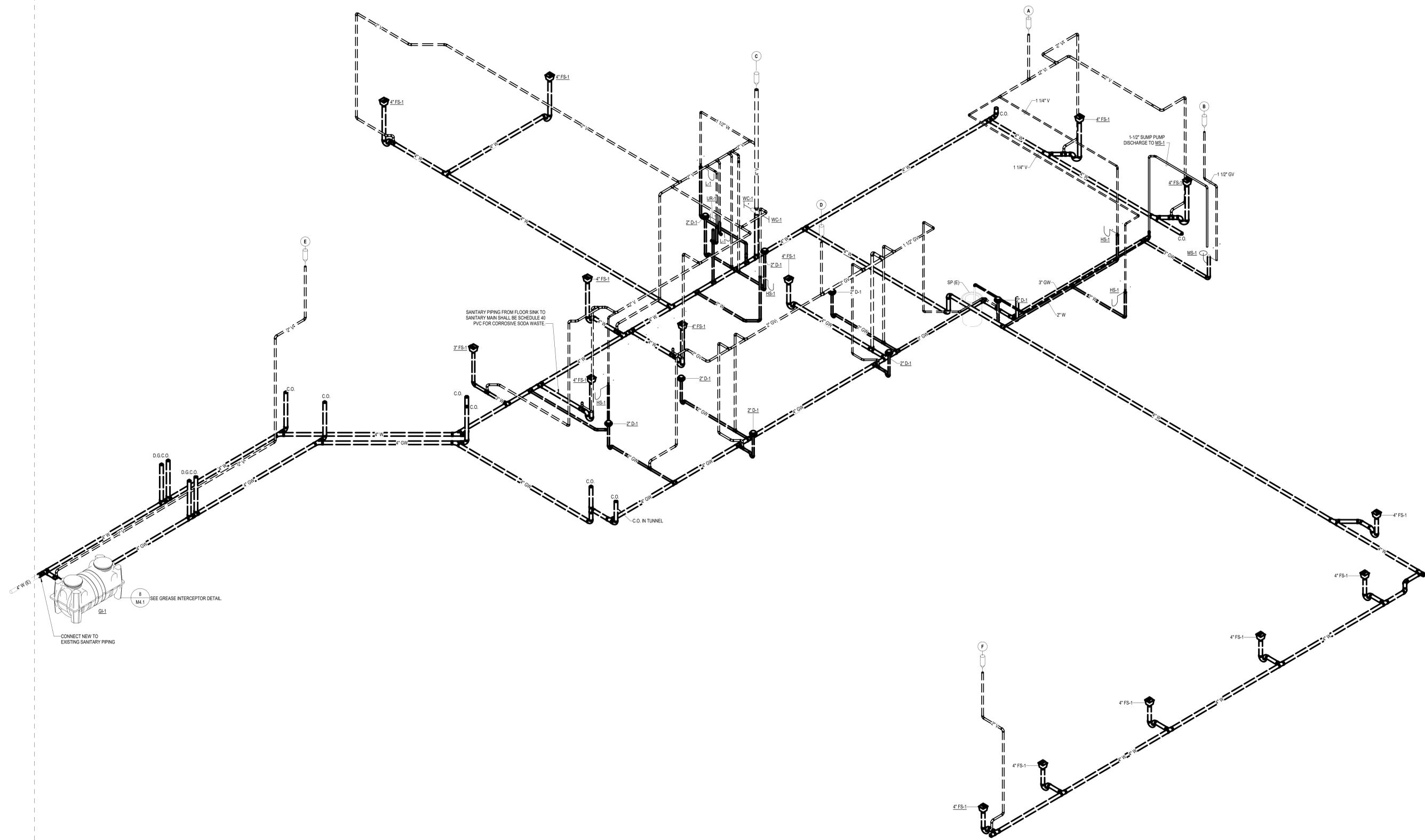
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SANITARY PIPING FROM FLOOR SINK TO SANITARY MAIN SHALL BE SCHEDULE 40 PVC FOR CORROSIVE SODA WASTE.

SEE GREASE INTERCEPTOR DETAIL.

CONNECT NEW TO EXISTING SANITARY PIPING

**1 WASTE AND VENT RISER DIAGRAM**  
MS-1

**CUBBY'S RENOVATION - FREMONT**

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**WASTE AND VENT RISER DIAGRAM**

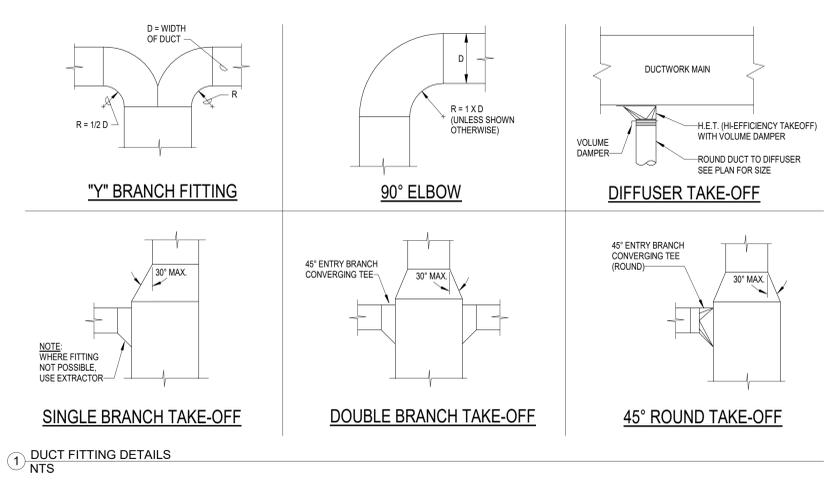
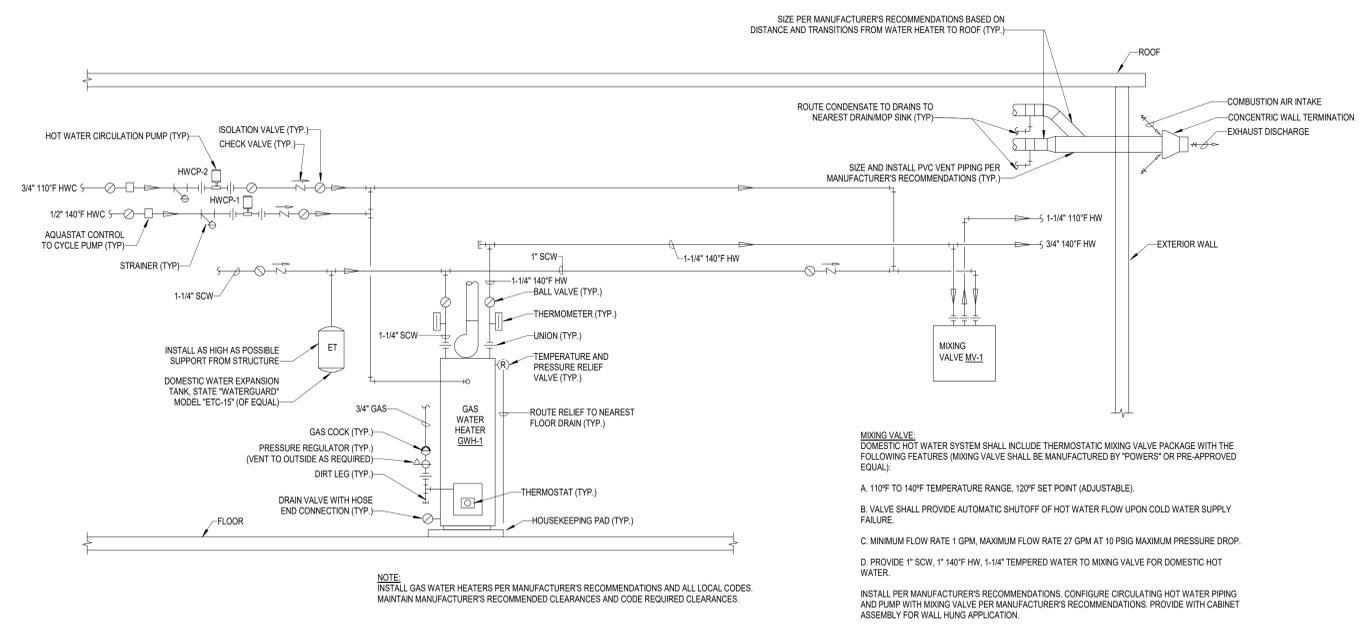
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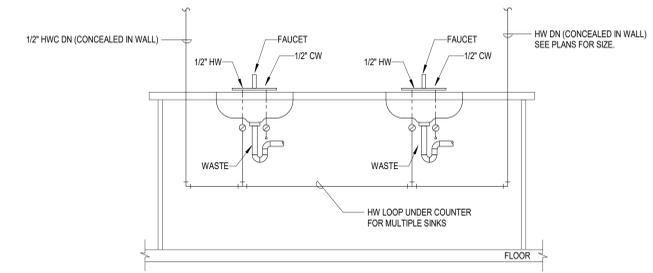
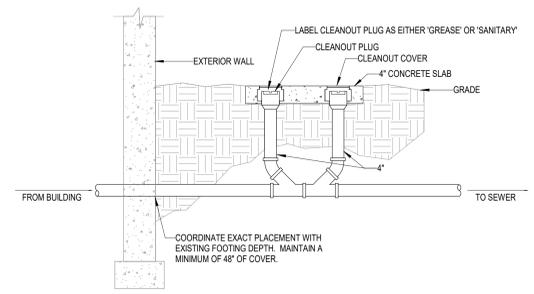
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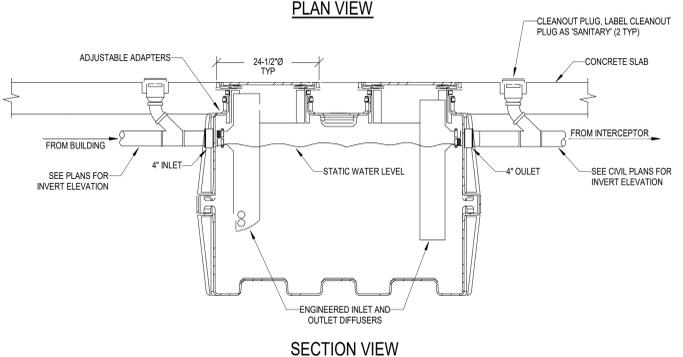
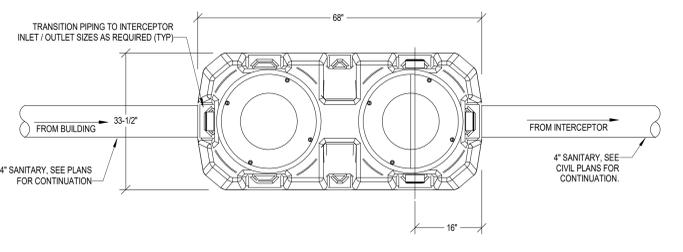
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4 WATER HEATER DETAIL  
NTS



7 DOUBLE GRADE CLEANOUT DETAIL  
NTS



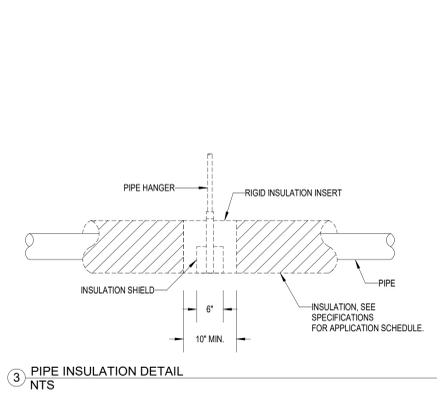
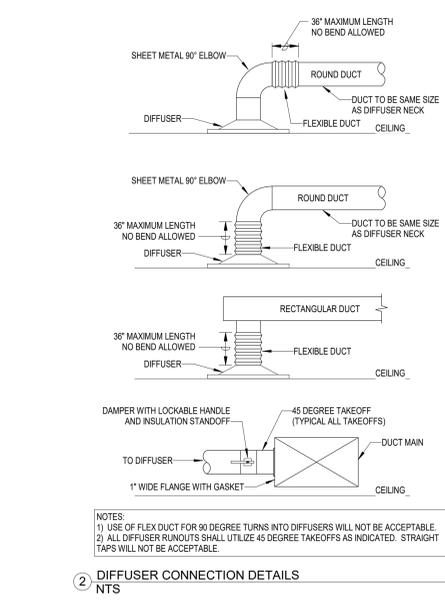
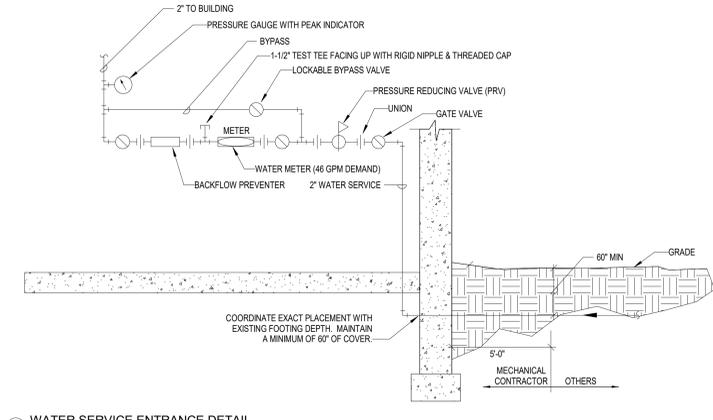
GREASE INTERCEPTOR SHALL BE SCHER GB-250 (OR APPROVED EQUAL). SCHER GREAT BASIN GREASE INTERCEPTOR SHALL BE LIFETIME GUARANTEED AND MADE IN USA OF SEAMLESS, ROTATIONALLY MOLDDED HIGH-DENSITY POLYETHYLENE WITH MINIMUM 3/8" UNIFORM WALL THICKNESS. INTERCEPTOR SHALL BE RATED FOR BELOW GRADE INSTALLATION, BUILT IN ACCORDANCE TO ASME A112.14.3 WITH FIELD ADJUSTABLE RISER SYSTEM, BUILT-IN FLOW CONTROL, BUILT-IN TEST CAPS, VENT CONNECTION, AND INLET / OUTLET CONNECTIONS. INTERCEPTOR CAPACITY SHALL BE RATED FOR A MAXIMUM FLOW OF 100 GPM, 275 GALLON LIQUID CAPACITY, 147.4 GALLON (1076 LBS) GREASE CAPACITY AND 105 GALLON SEDIMENT CAPACITY. COVER SHALL PROVIDE WATER / GAS-TIGHT SEAL AND BE HIGHWAY RATED.

PROVIDE THE FOLLOWING OPTIONS: TELEGLIDE FIELD ADJUSTABLE RISERS FOR EXTENDING COVER TO GRADE, HIGH WATER ANCHOR KIT, AND HIGHWAY RATED PICKABLE COMPOSITE COVER.

INTERCEPTOR SHALL BE CONSTRUCTED AND INSTALLED PER THE 2015 OMAHA PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.

8 GREASE INTERCEPTOR DETAIL  
NTS

5 HOT WATER CIRCULATION DETAIL  
NTS



6 WATER SERVICE ENTRANCE DETAIL  
NTS

3 PIPE INSULATION DETAIL  
NTS

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CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

MECHANICAL DETAILS

M4-1  
CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023

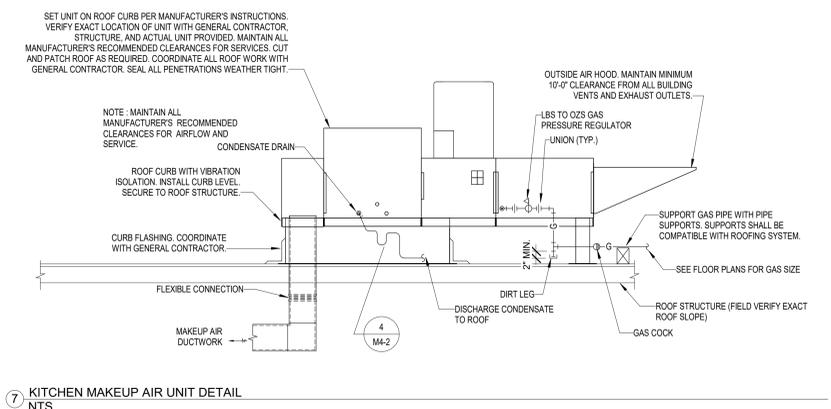
MEI PROJECT NO. 22453

**morrissey engineering inc.**  
mechanical | electrical | lighting | technology | commissioning

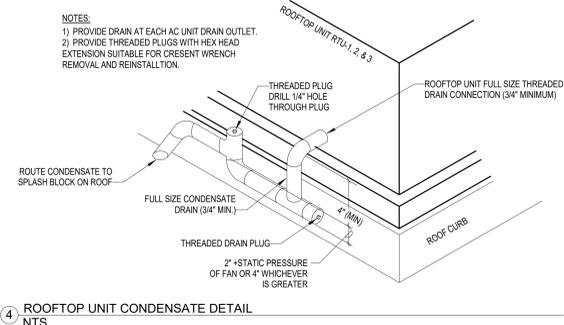
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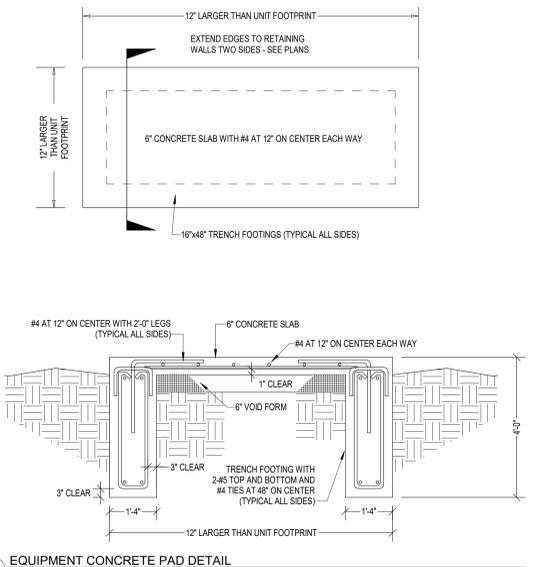
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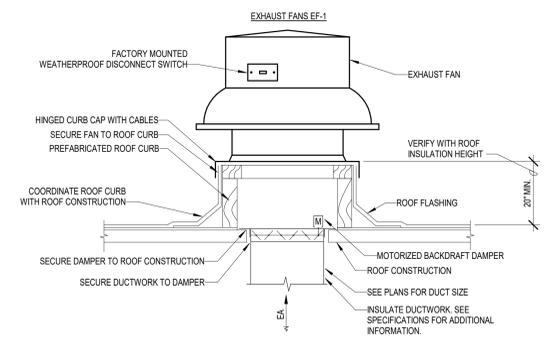
7 KITCHEN MAKEUP AIR UNIT DETAIL NTS



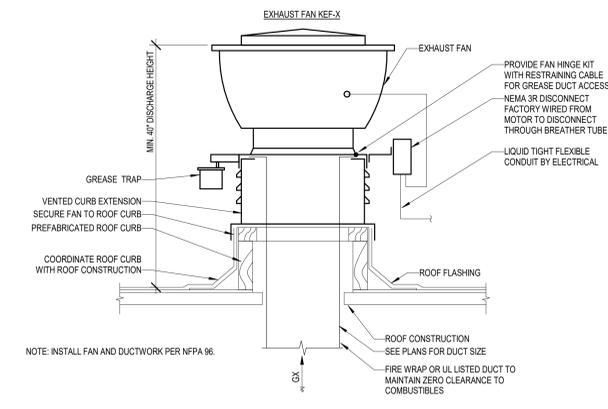
4 ROOFTOP UNIT CONDENSATE DETAIL NTS



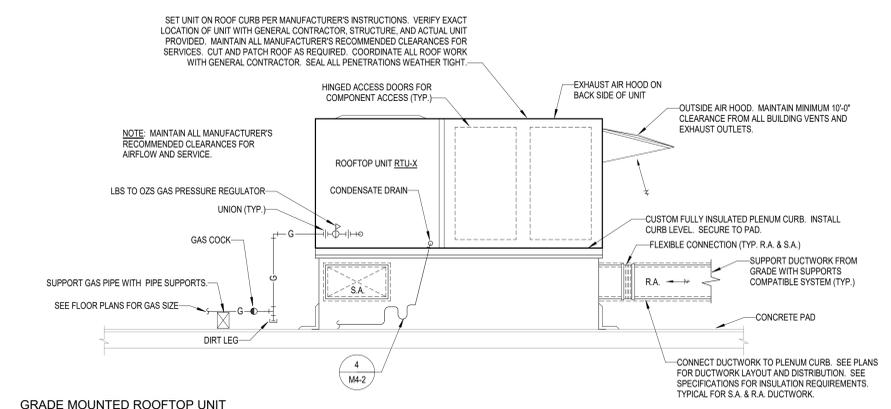
1 EQUIPMENT CONCRETE PAD DETAIL NTS



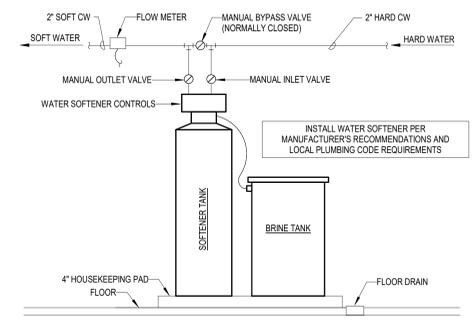
8 ROOF MOUNTED EXHAUST FAN DETAIL NTS



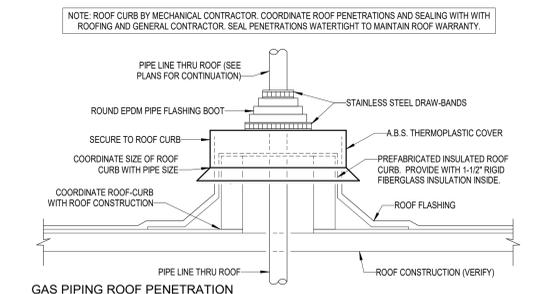
5 KITCHEN EXHAUST FAN DETAIL NTS



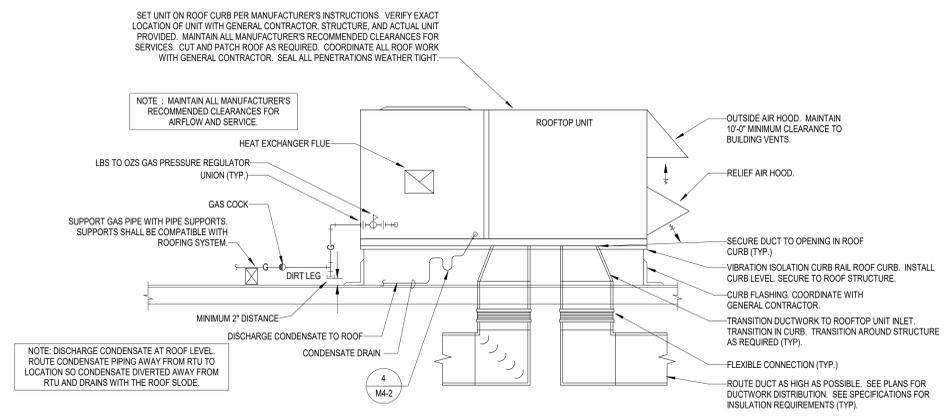
2 GRADE MOUNTED ROOFTOP UNIT DETAIL NTS



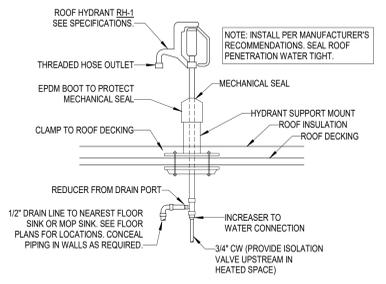
9 WATER SOFTENER DETAIL NTS



6 GAS PIPING ROOF PENETRATION DETAIL NTS



3 ROOFTOP UNIT DETAIL NTS



10 ROOF HYDRANT DETAIL NTS



MEI PROJECT NO. 22453

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01/27/2023

**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

**MECHANICAL SCHEDULES**

**M5-1**

CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023

**ROOFTOP UNIT SCHEDULE**

REMARKS:  
1. DOWNFLOW, SINGLE ZONE, VARIABLE AIR VOLUME, ROOFTOP UNIT WITH DX COOLING, 2-STAGE GAS HEATING, AND HOT GAS REHEAT WITH DEHUMIDIFICATION CONTROLS.  
2. PROVIDE WITH CONDENSER COIL HAIL GUARDS IF NOT INTEGRAL TO CONDENSER COIL CONFIGURATION.  
3. PROVIDE WITH OUTSIDE AIR INTAKE HOOD AND BAROMETRIC RELIEF.  
4. PROVIDE FULLY INSULATED ROOF CURB WITH VIBRATION ISOLATION RAILS. CURB SHALL HAVE SPRING ISOLATORS ALLOWING A MINIMUM OF 1" DEFLECTION AND INTERNAL CHANNELS TO SUPPORT TWO LAYERS OF DRYWALL FOR SOUND CONTROL. CURB SHALL BE INSULATED MINIMUM OF R-8. MINIMUM CURB HEIGHT OF 24". COORDINATE SLOP OF CURB WITH ROOF. DIMENSIONS GIVEN ARE FOR UNIT ONLY AND DO NOT INCLUDE CURB HEIGHT. STANDARD UNIT WEIGHT GIVEN; WEIGHT FOR CURB AND UNIT ACCESSORIES NOT INCLUDED. CONTRACTOR SHALL CONFIRM ROOF INSULATION THICKNESS AT FINAL PLACEMENT OF EQUIPMENT. PROVIDE ROOF CURB HEIGHT TO ALLOW A MINIMUM 6" ROOF FLASHING UP TO NAILER (VERIFY REQUIRED FLASHING DIMENSION WITH ROOFING CONTRACTOR). INCREASE INDICATED CURB HEIGHT AS REQUIRED.  
5. PROVIDE FULLY INSULATED PLENUM CURB FOR INSTALLATION ON GRADE ON A CONCRETE PAD. CURB SHALL HAVE PROVISIONS FOR HORIZONTAL SUPPLY AND RETURN CONNECTION CONFIGURATION.  
6. THERMOSTAT SHALL HAVE THE FOLLOWING FEATURES: 7-DAY PROGRAMMABLE WITH FAN ON/OFF/AUTO, SETBACK CAPABILITIES, 2-HOUR MANUAL OVERRIDE, 5" DEADBAND, AND TEMPERATURE SETBACKS PER 2009 IECC REQUIREMENTS. LABEL THERMOSTAT CLEARLY INDICATING ZONE.  
7. SMOKE DETECTORS AND UNIT SHUT DOWN UPON SMOKE DETECTION BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.  
8. PROVIDE WITH SINGLE POINT CONNECTION AND FACTORY INSTALLED DISCONNECT.  
9. PROVIDE WITH FIELD POWERED OFF CONVENIENCE RECEPTACLE.  
10. PROVIDE WITH 2" MERV 8 FILTERS.  
11. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER WITH 10-YEAR MINIMUM WARRANTY.  
12. PROVIDE WITH STAINLESS STEEL CONDENSATE DRAIN PAN.  
13. PROVIDE WITH 5-YEAR COMPRESSOR WARRANTY.  
14. VERIFY TOTAL STATIC PRESSURE WITH MANUFACTURER'S COMPONENTS. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE FILTER, COOLING COIL, AND OTHER RTU COMPONENTS. OVERALL ROOFTOP UNIT STATIC PRESSURE RATING SHALL ACCOMMODATE PRESSURE DROP VALUES OF A WET COIL, MID-LIFE FILTER, INTERNAL UNIT PRESSURE DROP AND EXTERNAL STATIC PRESSURE INDICATED.  
15. PROVIDE WITH DIRECT DRIVE ECM CONTROLLED FAN. BRAKE HORSEPOWER SHALL NOT EXCEED 85% OF NOMINAL MOTOR HORSEPOWER.  
16. PROVIDE WITH BELT DRIVE FAN. BRAKE HORSEPOWER SHALL NOT EXCEED 85% OF NOMINAL MOTOR HORSEPOWER.  
17. PROVIDE UNIT WITH HIGH SCCR OPTION, UNIT SHALL HAVE A SCCR OF 100 KA.

PLAN TAG	MANUFACTURER	MODEL	SERVES	CONFIG.	THICKNESS	MIN. EFF.	PHYSICAL SIZE		TOTAL SUPPLY AIRFLOW	MINIMUM OA	AIRFLOW (CFM)	E.S.P. (in-wg)	BLOWER TYPE	FAN BHP / MOTOR HP	VOLTAGE / PHASE	MCA	MOCP	CAPACITY (BTU/h)		GAS FIRED HEATING		HOT GAS REHEAT		REMARKS												
							DIMENSIONS (W x H x L)	WEIGHT										TOTAL	SENSIBLE	GAS LOAD		# OF STAGES	EFF.		LAT (F) DB / WB	LAT (F) DEW PT.	CAPACITY (BTU/h)									
																				FUEL	INPUT							OUTPUT	INPUT	OUTPUT						
RTU-1	LENNOX	LGH180HM	SEE PLANS	(1)	2"	MERV 8	92" x 55" x 133"	2,650	6,000	900	6,000	0.75	BELT	2,96 / 5.00	208 V / 3	74.0 A	90.0 A	15	175,800	131,500	95.0	12.0	3	80.0 / 67.0	57.0 / 56.7	NATURAL GAS	480,000	384,000	312,000	249,600	2	80.0%	77.7 / 65.3	58.0	66,500	(2,4-6-14, 16, 17)
RTU-2	LENNOX	LGH20HE	SEE PLANS	(1)	2"	MERV 8	61" x 47" x 102"	1,525	4,000	600	4,000	1.00	DIRECT	2,69 / 3.75	208 V / 3	54.0 A	70.0 A	10	113,400	80,400	95.0	12.1	3	80.0 / 67.0	58.1 / 56.9	NATURAL GAS	240,000	194,400	156,000	126,400	2	81.0%	70.4 / 61.3	55.5	72,400	(2,3, 5-15, 17)
RTU-3	LENNOX	LGH20HE	SEE PLANS	(1)	2"	MERV 8	61" x 47" x 102"	1,525	4,000	600	4,000	1.00	DIRECT	2,69 / 3.75	208 V / 3	54.0 A	70.0 A	10	113,400	80,400	95.0	12.1	3	80.0 / 67.0	58.1 / 56.9	NATURAL GAS	240,000	194,400	156,000	126,400	2	81.0%	70.4 / 61.3	55.5	72,400	(2,3, 5-15, 17)

**KITCHEN EQUIPMENT CONNECTION SCHEDULE (1) (2) (3) (4)**

REMARKS:  
1. VERIFY ALL EQUIPMENT CONNECTION SIZES AND LOCATIONS WITH FOOD SERVICE EQUIPMENT SUPPLIER, EQUIPMENT MANUFACTURER, AND OWNER. FIELD VERIFY CONNECTION SIZES AND MODIFY SIZE AND LOCATION OF UTILITIES AS REQUIRED. INSTALL ALL EQUIPMENT PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND LOCAL PLUMBING CODE.  
2. VERIFY ALL BACKFLOW PREVENTION REQUIREMENTS WITH LOCAL PLUMBING CODE. PROVIDE BACKFLOW PREVENTION DEVICES AS REQUIRED BY LOCAL PLUMBING CODE.  
3. PROVIDE ISOLATION VALVES, WATER HAMMER ARRESTORS, FLOW CONTROL VALVE, SIPHON BREAKER AND ALL OTHER SPECIALTIES PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND LOCAL PLUMBING CODE.  
4. PROVIDE WATER STOPS AT EACH PIECE OF EQUIPMENT. WATER STOPS SHALL BE IN AN ACCESSIBLE LOCATION.  
5. PROVIDE GAS COCK, LBS. TO OZ. GAS PRESSURE REGULATOR, DIRT LEG AND UNION AT APPLIANCE. VERIFY CONNECTION REQUIREMENTS WITH FOOD SERVICE EQUIPMENT SUPPLIER. PROVIDE FLEXIBLE GAS CONNECTIONS AT KITCHEN APPLIANCES. VENT REGULATOR TO CURB AS REQUIRED.  
6. HARD PIPE INDIRECT WASTE CONNECTION FROM EQUIPMENT DRAIN TO NEAREST FLOOR SINK. MAINTAIN CODE REQUIRED AIR GAP AND DISCHARGE TO FLOOR SINK.  
7. PROVIDE BACKFLOW PREVENTER AT APPLIANCE WATER CONNECTION PER LOCAL PLUMBING CODE REQUIREMENTS.  
8. PROVIDE 1/2" CW WATER TO FILTER CONNECTIONS AND 1/2" FILTERED WATER FROM FILTER TO EQUIPMENT. PROVIDE RPZ BACKFLOW PREVENTER AT EACH CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL PLUMBING CODE.  
9. FLEXIBLE GAS HOSE WITH GAS COCK FURNISHED WITH APPLIANCE. PRESSURE REGULATOR FURNISHED WITH APPLIANCE WHERE REQUIRED. MECHANICAL CONTRACTOR SHALL PROVIDE GAS STUB THROUGH WALL AND FINAL CONNECTION TO APPLIANCE. VERIFY CONNECTION REQUIREMENTS WITH FOOD SERVICE EQUIPMENT SUPPLIER.  
10. PVC PATHWAYS FOR SODA LINES BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.

MARK	QTY	ITEM	CW	FILTERED CW	110° F HW	140° F HW	WASTE	VENT	GAS	NATURAL GAS LOAD (CFH)	REMARKS
22	2	BEVERAGE DISPENSER	-	1/2"	-	-	-	-	-	0	(7) (10)
23	2	ICE MAKER	1/2"	-	-	-	1"	-	-	0	(6) (7)
25	2	TEA BREWER	-	1/2"	-	-	3/4"	-	-	0	(6) (8)
26	2	FROZEN UNCARBONATED BEVERAGES	-	1/2"	-	-	-	-	-	0	(7) (10)
28	2	FROZEN CARBONATED BEVERAGES	-	1/2"	-	-	-	-	-	0	(7) (10)
29	1	MILKSHAKES MACHINE	-	1/2"	-	-	3/4"	-	-	0	(6) (7)
31	4	COFFEE MAKER	-	1/2"	-	-	1-1/2"	-	-	0	(6) (8)
49	1	GAS FRYER	-	-	-	-	-	3/4"	-	70	(5) (10)

**DIFFUSER REGISTER AND GRILLE SCHEDULE**

REMARKS:  
1. VERIFY ALL FRAMES, FINISHES, AND ACCESSORIES WITH CEILING CONSTRUCTION PRIOR TO FURNISHING MATERIAL. SEE PLANS FOR NECK SIZES.  
2. NOISE CRITERIA (NC) SHALL BE LESS THAN 25 ON DIFFUSERS, REGISTERS AND GRILLES LOCATED IN OCCUPIED SPACES.  
3. NON-RADIAL OPPOSED BLADE DAMPER. MAIN BALANCING SHALL BE DONE WITH BRANCH VOLUME DAMPER AT TAKEOFF LOCATION OF MAIN DUCT. OPPOSED BLADE DAMPER SHALL BE USED FOR FINE TUNING ONLY.  
4. RETURN AIR MODEL WITHOUT 4-WAY THROW ACCESSORIES FOR USE IN KITCHEN.

PLAN TAG	MANUFACTURER	MODEL	FUNCTION	DESCRIPTION	MOUNTING (1)	DEFLECTION	AIR P.D. (IN WG)	MATERIAL	FINISH	NECK SIZE	FACE SIZE	PLENUM	REMARKS
D-1	KRUEGER	PLO	SUPPLY	PLAQUE DIFFUSER	ACT'G/VP CEILING	300"	0.10"	STEEL	WHITE	SEE PLANS	24"x24"	-	(1) (2)
D-2	KRUEGER	6660	SUPPLY	ROUND NECK PERFORATED FACE	ACT'G/VP CEILING	-	0.10"	STEEL	WHITE	SEE PLANS	24"x24"	-	(1) (2) (4)
E-1	KRUEGER	80H	EXHAUST	RECT SINGLE DEFLECTION GRILLE	GYP CEILING	SINGLE 3/4"	0.10"	STEEL	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	-	(1) (2) (3)
G-1	KRUEGER	6400	RETURN / XFR	RECT NECK PERFORATED FACE	ACT CEILING	PERFORATED	0.10"	STEEL	WHITE	SEE PLANS	24"x24"	-	(1) (2)
G-2	KRUEGER	800H	RETURN	RECT SINGLE DEFLECTION GRILLE	WALL/SOFTIT	SINGLE 3/4"	0.10"	STEEL	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	-	(1) (2) (3)
R-1	KRUEGER	800H	SUPPLY	RECT DOUBLE DEFLECTION REGISTER	GYP CEILING	DOUBLE 3/4"	0.10"	STEEL	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	-	(1) (2) (3)
R-2	KRUEGER	800H	SUPPLY	RECT DOUBLE DEFLECTION REGISTER	WALL/SOFTIT	DOUBLE 3/4"	0.10"	STEEL	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	-	(1) (2) (3)
R-3	KRUEGER	80H	RETURN / XFR	RECT SINGLE DEFLECTION GRILLE	GYP CEILING	SINGLE 3/4"	0.10"	STEEL	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	-	(1) (2)

**DOMESTIC WATER PUMP SCHEDULE**

REMARKS:  
1. LEAD FREE / ALL BRONZE CONSTRUCTION FOR POTABLE WATER APPLICATIONS.  
2. SEE WATER HEATER DETAIL FOR PIPING SPECIALTIES.  
3. PUMP SHALL BE SCHEDULED THROUGH THE A TIME CLOCK. WHEN ENABLED, THE PUMP SHALL CYCLE THROUGH THE USE OF AN AQUASTAT.

PLAN TAG	MANUFACTURER	MODEL	SERVES	TYPE	PUMP - FLOW		PUMP - SIZE		MOTOR		REMARKS						
					FLUID TYPE	GPM	HEAD (FT)	CONNECTIONS SUCT. / DISCH.	RPM	HP		RPM	VOLTAGE / PHASE				
														TEMP.	SHUTOFF		
HWCP-1	BELL & GOSSETT	NBF-8	HW CIRC	IN-LINE (1)	WATER	140 F	1	5 FT	9 FT	1/2"	1/2"	2800	0.05	2800	120 V / 1	O.D.P.	(2) (3)
HWCP-2	BELL & GOSSETT	NBF-8	HW CIRC	IN-LINE (1)	WATER	110 F	2	5 FT	9 FT	3/4"	3/4"	2800	0.05	2800	120 V / 1	O.D.P.	(2) (3)

**GAS WATER HEATER SCHEDULE**

REMARKS:  
1. GAS-FIRED, 96% EXTRA HIGH EFFICIENCY, DIRECT VENT, SEALED COMBUSTION WATER HEATER WITH GLASS LINED STORAGE TANK.  
2. PROVIDE WITH PRESSURE / TEMPERATURE RELIEF VALVE.  
3. PVC EXHAUST AND INTAKE. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE CONCENTRIC VENT WALL TERMINATION.  
4. COORDINATE ELECTRICAL REQUIREMENTS WITH SUPPLIED UNIT AND WITH ELECTRICAL CONTRACTOR.

PLAN TAG	MANUFACTURER	MODEL	SERVES	STORAGE CAPACITY	DIMENSIONS (DIA. Ø x H)	RECOVERY	DISCHARGE TEMP.	TEMP. RISE	ELECTRICAL PHASE	GAS LOAD (BTU/h)		# OF STAGES	EFF.	CONN. SIZES GAS INT. EXH.	REMARKS	
										FUEL	INPUT					
																OUTPUT
GWH-1	A.O. SMITH	BTH-199	DOM. HW	100	28 1/2 x 77"	261 GPH	140 F	90 F	120 V / 1	NATURAL GAS	199,000	193,000	MODULATING	97%	3/4" 4" 4"	(1) (2) (3) (4)

**WATER SOFTENER SCHEDULE**

REMARKS:  
1. COMMERCIAL WATER SOFTENER SHALL CONSIST OF (1) FIBERGLASS REINFORCED POLYESTER SOFTENER TANKS WITH INTERIOR EPOXY LINING AND (1) FIBERGLASS REINFORCED PLASTIC BRINE TANK.  
2. SOFTENER TANKS ARE APPROXIMATELY 18" X 48" TALL. BRINE TANK IS APPROXIMATELY 24" X 40" TALL. OVERALL DIMENSIONS ARE APPROXIMATELY 48" X 48" X 48".  
3. CONTRACTOR SHALL INSTALL WATER SOFTENER PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY PIPING AND PIPING SPECIALTIES (I.E. STRAINERS, ISOLATION VALVES, BYPASS, ETC.) NOT INCLUDED WITH SOFTENER.  
4. PROVIDE WITH FRP TANKS. AQUA SENSOR CONTROL, PRESSURE GAUGES ON INLET AND OUTLET, AND SINGLE POINT POWER CONNECTION (120 VOLT, 1Ø). PROVIDE A MINIMUM OF 1-YEAR WARRANTY ON DEFECTS AND 5-YEAR WARRANTY ON THE SOFTENER AND BRINE TANKS. CONTROLS SHALL BE MICROPROCESSOR FOR AUTOMATICALLY CYCLING THROUGH THE REGENERATION CYCLE. GRAVITY DRAIN SOFTENER DISCHARGE FROM WATER SOFTENER TO FLOOR SINK.  
5. MINIMUM OF 70,000 GRAIN CAPACITY AT 16 LB SALT DOSAGE. MAXIMUM OF 128,000 GRAIN CAPACITY AT 48 LB SALT DOSAGE.  
6. WATER SOFTENER SHALL HAVE SINGLE POINT ELECTRICAL CONNECTION WITH CORD AND PLUG. COORDINATE ELECTRICAL OUTLET LOCATION WITH ELECTRICAL CONTRACTOR.

PLAN TAG	MANUFACTURER	MODEL	SERVES	OPTIONS	CONFIG.	TYPE	RESIN QUANTITY	ACC.	DIMENSIONS (D x W x H)	WEIGHT	FLOWRATE (GPM) PEAK	PRESSURE DROP (PSI) PEAK	VOLTAGE / PHASE	REMARKS
WS-1	CULLIGAN	HE-1.25	DOM. HOT WATER	-	(1)	SIMPLEX	(5)	(3)	(2)	370	21 GPM	15	120 V / 1	(4) (6)

**NATURAL GAS USAGE TABLE**

EQP. DESCRIPTION	EQP. TAG	GAS LOAD (BTU/h)
Kitchen Equipment	49	70,000
Gas Water Heater with Integral Glass-Lined Tank	GWH-1	199,000
Kitchen Make-up Air Unit	MAU-1	296,000
Packaged Gas Rooftop Unit	RTU-1	480,000
Packaged Gas Rooftop Unit	RTU-2	240,000
Packaged Gas Rooftop Unit	RTU-3	240,000
<b>Grand total:</b>	<b>6</b>	<b>1,525,000</b>

**MIXING VALVE SCHEDULE**

REMARKS:  
1. HIGH LOW MANIFOLD SYSTEM WITH MANUAL BYPASS PREPARED.  
2. PROVIDE PIPING DIAGRAM VALVES AND ACCESSORIES.  
3. PROVIDE MANUFACTURER'S STANDARD CONTROLS.

PLAN TAG	MANUFACTURER	MODEL	SERVES	CONNECTIONS CW IN / HW OUT	FLOW RATE (GPM)	GPM DROP @ 10 PSI	TEMPERATURES CW IN / HW IN / HW OUT	REMARKS				
									TEMP.			
MV-1	POWERS	LF5H143Z	DOM. HOT WATER	1"	1"	16	27	38	50 F	140 F	110 F	(1) (2) (3)

**CROSS CONNECTION AND BACKFLOW PREVENTERS SCHEDULE (1) (2)**

TYPE	APPLICATION	DEGREE OF HAZARD	STANDARD
REDUCED PRESSURE ZONE ASSEMBLY	DOMESTIC WATER SERVICE	CONTAMINATION (HIGH HAZARD)	ASSE 1013
DUAL CHECK WITH INTERMEDIATE ATMOSPHERIC VENT	SODA CARBONATORS, ICE MACHINES, COFFEE MACHINES, TEA MACHINES	POLLUTION (LOW HAZARD)	ASSE 1022

REMARKS:  
1. INSTALL BACKFLOW PREVENTER ASSEMBLIES UPRIGHT AND HORIZONTAL AND IN ACCESSIBLE LOCATION.  
2. UPON COMPLETION OF INSTALLATION, TEST, AND CERTIFY PROPER OPERATION OF BACKFLOW PREVENTERS BY A QUALIFIED TESTER. PROVIDE A COPY OF TEST RESULTS TO OWNER AND OBTAIN REQUIRED TAGS FOR DEVICES.

**DUCTWORK INSULATION SCHEDULE (1) (2)**

SERVICE	DUCTWORK	APPLICATION	INSULATION TYPE	INSULATION THICKNESS	MINIMUM R-VALUE	VAPOR RETARDER	REMARKS
SUPPLY AIR	ALL	CONCEALED ABOVE CEILING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
RETURN AIR	RECTANGULAR	CONCEALED ABOVE CEILING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
SUPPLY AIR	RECTANGULAR	EXPOSED - EXTERIOR	(4)	3"	R-8	YES	-
RETURN AIR	RECTANGULAR	EXPOSED - EXTERIOR	(4)	3"	R-8	YES	-
EXHAUST AIR	FROM LOUVER / HOOD	BACK 36" INTO BUILDING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
MAKE-UP AIR	RECTANGULAR	CONCEALED ABOVE CEILING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
GREASE DUCT	ALL	ALL	FIRE RATED INSULATION	-	-	-	(3)

REMARKS:  
1. INSULATION TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC / ASHRAE 90.1-2016.  
2. SEE SPECIFICATION SECTION 23 07 00 FOR ADDITIONAL INFORMATION.  
3. THICKNESS / INSTALLATION AS REQUIRED TO MAINTAIN ZERO CLEARANCE TO COMBUSTIBLES.  
4. 1-1/2" DUCT LINER AND 1-1/2" MINERAL FIBER BOARD. PROVIDE FIELD APPLIED WEATHERPROOF ALUMINUM JACKET.

**PIPING INSULATION SCHEDULE (1) (2) (3)**

SERVICE	PIPING SIZES	INSULATION TYPE	INSULATION THICKNESS	VAPOR RETARDER	REMARKS
DOMESTIC COLD WATER (CW)	ALL	MINERAL FIBER	1/2"	YES	-
DOMESTIC HOT WATER (WITH RECIRC.)	1/2" TO 2"	MINERAL FIBER	1"	NO	-
DOMESTIC HOT / COLD (DIRECT BURIED)	ALL	FLEXIBLE ELASTOMERIC	3/4"	YES	-
PLUMBING VENTS (24" BELOW ROOF)	ALL	MINERAL FIBER	1/2"	YES	-

REMARKS:  
1. SEE PIPING INSULATION DETAIL 3 ON SHEET M4-1.  
2. INSULATION TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC / ASHRAE 90.1-2016.  
3. SEE SPECIFICATION SECTIONS 22 07 20 FOR ADDITIONAL INFORMATION.

**KITCHEN HOOD, MAKE-UP AIR UNIT, & EXHAUST FAN SCHEDULE**

REMARKS:  
1. SEE M6 SERIES FOR ADDITIONAL INFORMATION, EQUIPMENT WEIGHTS, AND DETAILED DIMENSIONAL DRAWINGS.

PLAN TAG	MANUFACTURER	CAPTIVE/ARE EQUIPMENT NO.	SERVES	CONFIGURATION	AIRFLOW (CFM)		REMARKS
					MAKE-UP	EXHAUST	
KEF-1	CAPTIVARE	DUSHFA	KITCHEN HOOD 1	UPPLAST GREASE EXHAUST FAN		1,225	(1)
KEF-2	CAPTIVARE	DU18HFA	KITCHEN HOOD 2	UPPLAST GREASE EXHAUST FAN		2,800	(1)
KH-1	CAPTIVARE	6030 ND-2-PPS-F	KITCHEN COOK LINE	TYPE 1 HOOD	980	1,225	(1)
KH-2	CAPTIVARE	5430 ND-2-PPS-F	KITCHEN COOK LINE	TYPE 1 HOOD	2,240	2,800	(1)
MAU-1	CAPTIVARE	A2-D.500-220-MFU	KITCHEN HOOD 1 & 2	DIRECT GAS FIRED / DX COOLING	3,320		(1)

**FAN SCHEDULE**

REMARKS:  
1. ROOF MOUNTED, DIRECT DRIVE, CENTRIFUGAL

PLUMBING SPECIALTIES SCHEDULE (1) (2)

REMARKS: 1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES. 2. PICTURES OF FIXTURES MAY NOT INDICATE ACTUAL FIXTURE SPECIFIED. PICTURES ARE GRAPHICAL IN NATURE. SEE DESCRIPTION FOR ACTUAL FIXTURE AND MODEL.								
TAG	FIXTURE (2)		DESCRIPTION	CONNECTIONS				REMARKS
	MODEL	IMAGE		CW	HW	V	W	
D-1	J.R. SMITH 2005		FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 6" ROUND ADJUSTABLE NICKEL BRONZE GRATE.	-	-	1-1/2"	2"	SEE PLANS FOR WASTE AND VENT SIZE REQUIREMENTS.
FS-1	J.R. SMITH 3101		FLOOR SINK WITH SEDIMENT BUCKET, ACID RESISTANT COATED CAST IRON BODY, FLASHING COLLAR, AND REMOVABLE 8-1/2" SQUARE NICKEL BRONZE TOP. PROVIDE THE FOLLOWING FEATURES: 1. 3/4 GRATE	-	-	<varies>	<varies>	SEE PLANS FOR WASTE AND VENT SIZES.
RH-1	WOODFORD RH2-M5		ROOF HYDRANT WITH THE FOLLOWING FEATURES: NON-FREEZE, CAST IRON, AUTOMATIC DRAINING, DUAL CHECK BACKFLOW PREVENTER, 3/4" NPS THREADED OR SOLDER JOINT INLET, AND GARDEN HOSE THREADS ON OUTLET.  TYPE: SURFACE MOUNT OPERATION: MANUFACTURER'S STANDARD LENGTH: AS REQUIRED FOR INSTALLING VALVE MINIMUM 30" ABOVE ROOF DECK.	1"	-	-	3/4"	
WH-1	WOODFORD 67C		WALL HYDRANT WITH THE FOLLOWING FEATURES: NON-FREEZE, AUTOMATIC DRAINING, ANTI-BACKFLOW TYPE, KEY OPERATION, 3/4" NPS THREADED OR SOLDER JOINT INLET, AND GARDEN HOSE THREADS ON OUTLET. INCLUDE OPERATING KEY FOR EACH HYDRANT.  TYPE: SURFACE MOUNT FINISH: CHROME PLATED OPERATION: KEY, 3/8" OPERATING ROD	3/4"	-	-	-	
OB-1	QATEY 12K		DESCRIPTION: RECESSED WALL OUTLET BOX WITH 1/4 TURN BRASS HAMMER BALL ISOLATION VALVE. COPPER SWEAT CONNECTION.	1/4"	-	-	-	SEE KITCHEN EQUIPMENT CONNECTION SCHEDULE FOR CW PIPING CONNECTION SIZE.

PLUMBING FIXTURE SCHEDULE (1) (2)

REMARKS: 1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES. 2. PICTURES OF FIXTURES MAY NOT INDICATE ACTUAL FIXTURE SPECIFIED. PICTURES ARE GRAPHICAL IN NATURE. SEE DESCRIPTION FOR ACTUAL FIXTURE AND MODEL.										
TAG	FIXTURE (2)		FAUCET-VALVE-ACCESSORY (2)		DESCRIPTION	CONNECTIONS				REMARKS
	MODEL	IMAGE	MODEL	IMAGE		CW	HW	V	W	
WC-1	KOHLER K-4325 "KINGSTON"		SLOAN 111-1.6 SFSM		DESCRIPTION: ELONGATED, SIPHON JET BOWL, WALL MOUNTED, BACK OUTLET WATER CLOSET WITH FLUSHMETER FEATURING TRUE MECHANICAL OVERRIDE. ADA COMPLIANT: YES COLOR: WHITE FLUSHMETER: TOP SPUD, 1.6 GALLONS PER FLUSH FLUSHMETER FINISH: POLISHED CHROME FLUSHMETER OPERATION: HARD WIRED, SENSOR ACTUATED WITH TRUE MANUAL OVERRIDE SEAT: WHITE, ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HINGE. RIM HEIGHT: 17.5"-18" CARRIER: HORIZONTAL	1-1/4"	-	2"	4"	FIXTURE SHALL BE MAP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH.
UR-1	KOHLER 4991-ET "BARDON"		SLOAN ROVAL 186-0.5 SFSM		DESCRIPTION: WASHDOWN WALL HANGING, WALL OUTLET WITH URINAL FLUSHMETER FEATURING TRUE MECHANICAL OVERRIDE. ADA COMPLIANT: YES COLOR: WHITE FLUSHMETER: TOP SPUD, 0.5 GALLONS PER FLUSH FLUSHMETER FINISH: POLISHED CHROME FLUSHMETER OPERATION: HARD WIRED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM WITH TRUE MECHANICAL OVERRIDE. RIM HEIGHT: 17"	3/4"	-	1-1/2"	2"	
L-1	KOHLER K-2005 "KINGSTON"		SLOAN OPTIMA ETF-80		DESCRIPTION: WALL HANGING LAVATORY WITH TRANSFORMER POWERED SENSOR FAUCET. FAUCET HAS SELF-ADAPTIVE RANGE ADJUSTMENT. ADA COMPLIANT: YES COLOR: WHITE FIXTURE DIMENSIONS: 21" x 18" CONSTRUCTION: FAUCET INLET SPACING TO MATCH LAVATORY OPENINGS. FAUCET VALVE OPERATION: BELOW DECK PLUG-IN TRANSFORMER, SENSOR OPERATED. FAUCET ACCESSORIES: BELOW DECK THERMOSTATIC MIXING VALVE SPOUT: INTEGRAL WITH BODY, VANDAL RESISTANT AERATOR 1/2-GPM FLOW DRAIN: GRID STRAINER ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF-STICKING FASTENING SYSTEM.	1/2"	1/2"	1-1/4"	1-1/4"	
MS-1	WILLIAMS SB-800 "SERVICEPTOR"		KOHLER K-837FD-4A "TRITON BOWE"		FLOOR MOUNTED MOP SINK WITH WALL MOUNTED FAUCET. ADA COMPLIANT: NOT REQUIRED FIXTURE DIMENSIONS: 24" x 24" x 12" HIGH FIXTURE CONSTRUCTION: MOLDED STONE. RIM GUARD: STAINLESS STEEL FAUCET: ROUGH CHROME, WIDESPREAD BAST BRASS WITH SUPPLIES 8" ON CENTER FAUCET MOUNTING: WALL CENTERED ON FIXTURE. FAUCET HANDLE: DUAL LEVER FAUCET SPOUT: INTEGRAL VACUUM BREAKER, PAUL HOOK AND HOSE THREAD OUTLET WALL BRACE: ASSEMBLY WITH WALL BRACKET AND SUPPORT TO FAUCET SPOUT. HOSE HOLDER: E.L. MUSTEE & SONS 65.700; HEAVY DUTY 5/8" DIA. 31" RUBBER HOSE AND SPRING LOADED MOLDED RUBBER HOSE HOLDER ON STAINLESS STEEL WALL PLATE. MOP HANGER: E.L. MUSTEE & SONS 65.600; THREE SPRING-LOADED RUBBER MOP HOLDERS ATTACHED TO STAINLESS STEEL WALL PLATE WALL GUARD: E.L. MUSTEE & SONS 67.240A; 12" HIGH; 20 GAUGE, #304 STAINLESS STEEL WALL GUARD.	3/4"	3/4"	1-1/2"	3"	
HS-1	ADVANCE TABCO 7-P8-20		ADVANCE TABCO K-22		DESCRIPTION: WALL MOUNTED, SINGLE-BOWL, 18 GAUGE STAINLESS STEEL SINK WITH FAUCET HANDWASHING SINK KIT ADA COMPLIANT: SINK - YES; FAUCET - YES FIXTURE BOWL DIMENSIONS: 10" x 14" x 5" FIXTURE OVERALL DIMENSIONS: 17-1/4" x 17-1/4" x 13" FIXTURE CONSTRUCTION: FAUCET INLET SPACING SHALL MATCH OPENINGS. FIXTURE DRAIN: 1-1/2" GRID STRAINER WITH 3-1/2" REMOVABLE STAINLESS STEEL CRUMB CUP FAUCET HANDLE TWO HANDLE LEVER FAUCET SPOUT: REACH 3" WITH 1-1/2 GPM AERATOR FAUCET FINISH: CHROME ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF-STICKING FASTENING SYSTEM.	1/2"	1/2"	1-1/2"	1-1/2"	
KS-1	ADVANCE TABCO TS-354-18 RL		ADVANCE TABCO DT-53		DESCRIPTION: 18 GAUGE TYPE 304 STAINLESS STEEL 3-COMPARTMENT SCULLERY SINK WITH LEFT AND RIGHT DRAINBOARDS, 1-5/8" GALVANIZED LEGS AND GUSSETS WITH 1" ADJUSTABLE BULLET FEET. ADA COMPLIANT: SINK - NA; FAUCET - NA FIXTURE BOWL DIMENSIONS: 20" x 16" x 14" FIXTURE OVERALL DIMENSIONS: 31" x 28" x 42" FIXTURE CONSTRUCTION: FAUCET INLET SPACING TO MATCH SINK OPENINGS. FAUCET HANDLE: SPLASH MOUNTED DUAL LEVEL WITH 12" WING SPOUT AND 30" STAINLESS STEEL SELF-CLOSING SQUEEZE VALVE PRE-RINSE HOSE. FAUCET FINISH: CHROME.	1/2"	1/2"	1-1/2"	1-1/2"	PROVIDE 1-1/2" WASTE FROM 3 SINK COMPARTMENT DRAINS TO 2" CONTINUOUS WASTE HEADER DISCHARGE 2" WASTE HEADER INDIRECT TO FLOOR SINK MAINTAIN CODE REQUIRED AIR GAP AND DISCHARGE TO FLOOR SINK.

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01/27/2023

CUBBY'S RENOVATION - FREMONT

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

PLUMBING FIXTURE SCHEDULE

M5-2

CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023

MEI PROJECT NO. 22453

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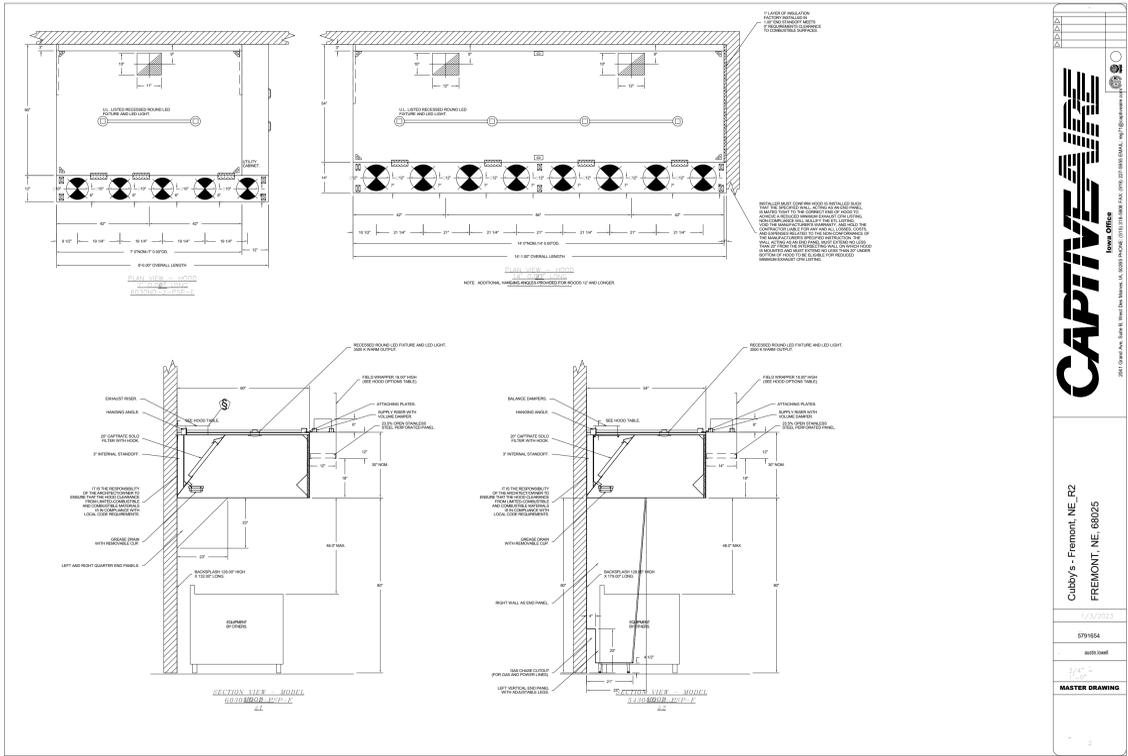
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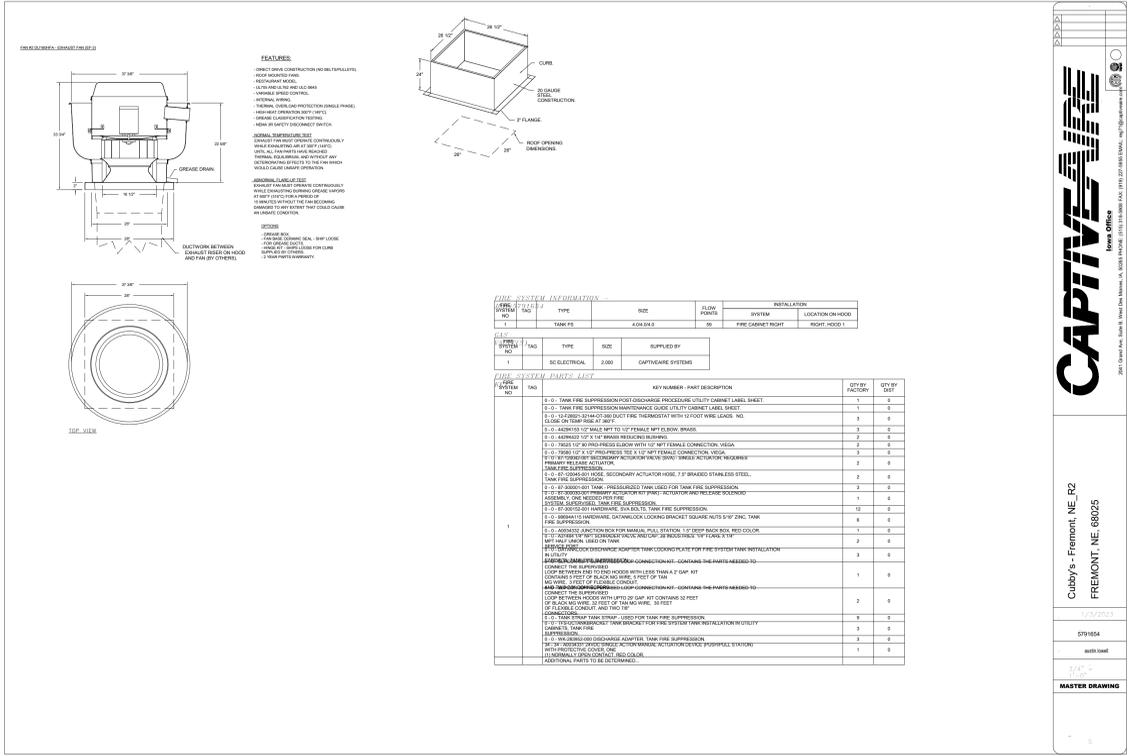
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CAPTIVE FLOW logo and project information: Cubby's - Fremont, NE, R2; FREMONT, NE 68025; 1/7/2023; 5791654; 6/8/1/2023; MASTER DRAWING

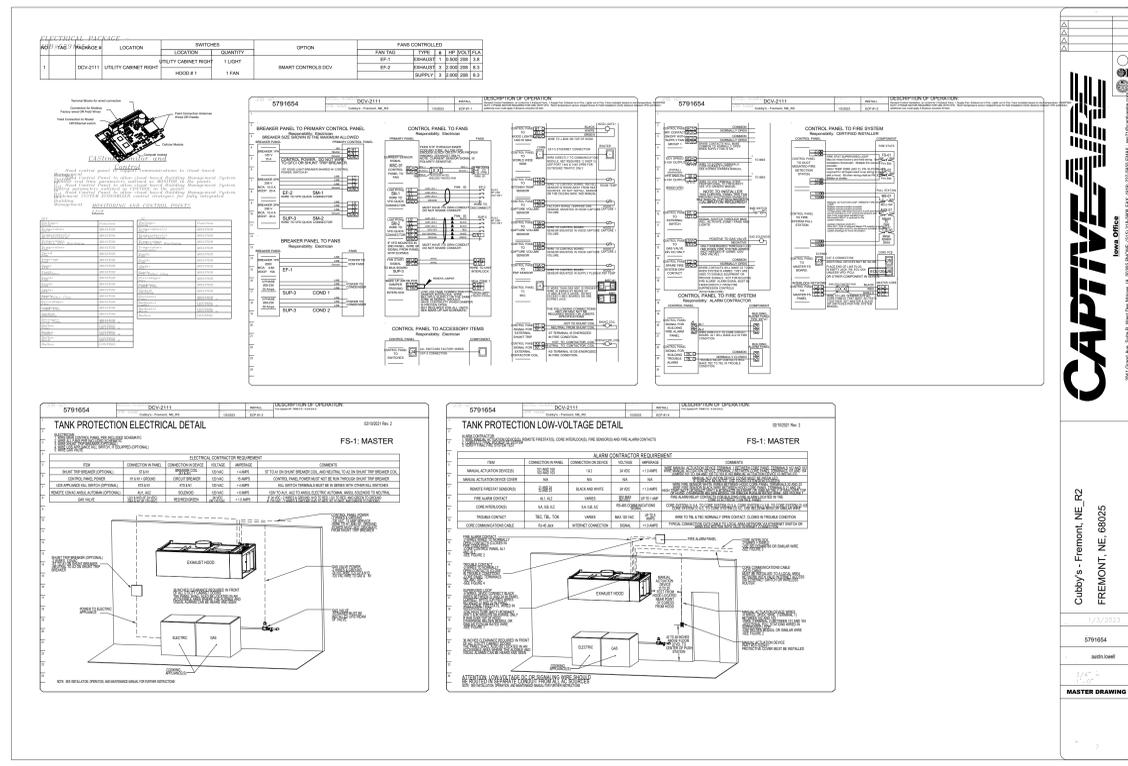
Technical specifications and data tables for grease traps. Includes sections for PATENT NUMBERS, SPECIFICATION CAPTRITE GREASE TRAP FILTER, HOOD CONSTRUCTION, HOOD OPENING, and SYSTEM DESIGN VERIFICATION (SDV). Contains multiple tables for equipment details and SDV results.



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Technical specifications and data tables for fans and coils. Includes sections for FAN INFORMATION, COIL INFORMATION, and COIL INFORMATION. Contains tables for fan specifications and coil performance data.





**CAPTIVE WIRE**  
New Office

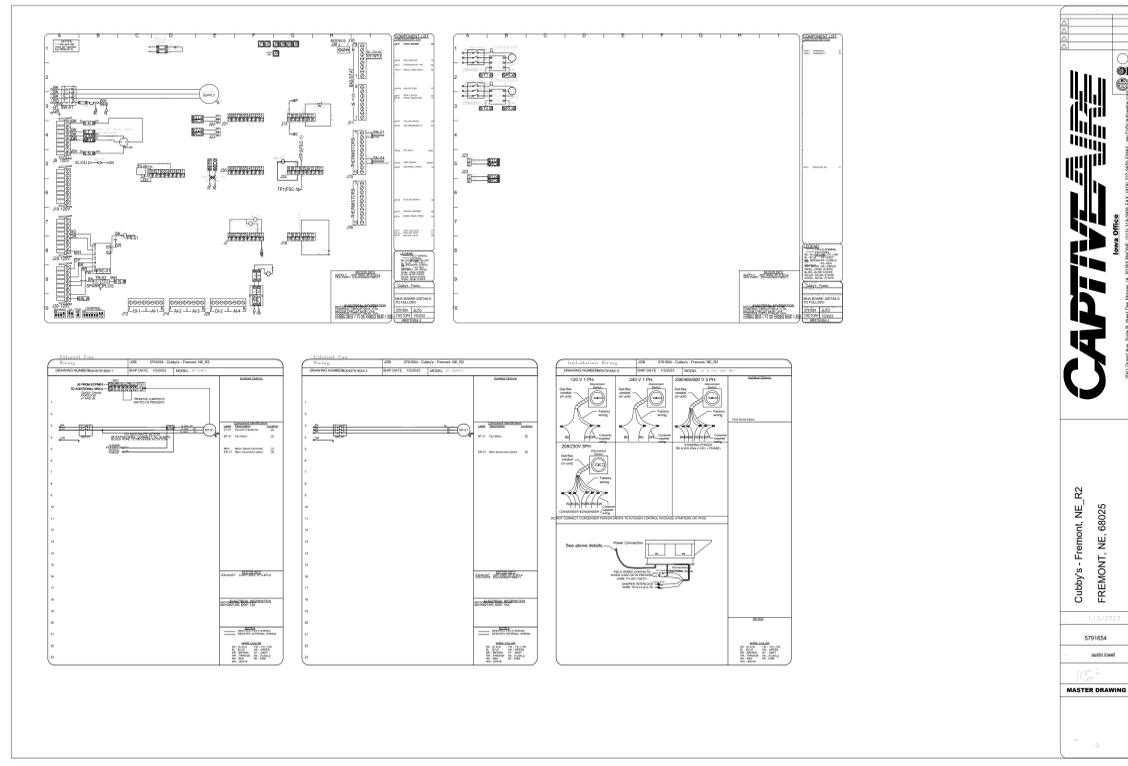
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**CAPTIVE WIRE**  
New Office

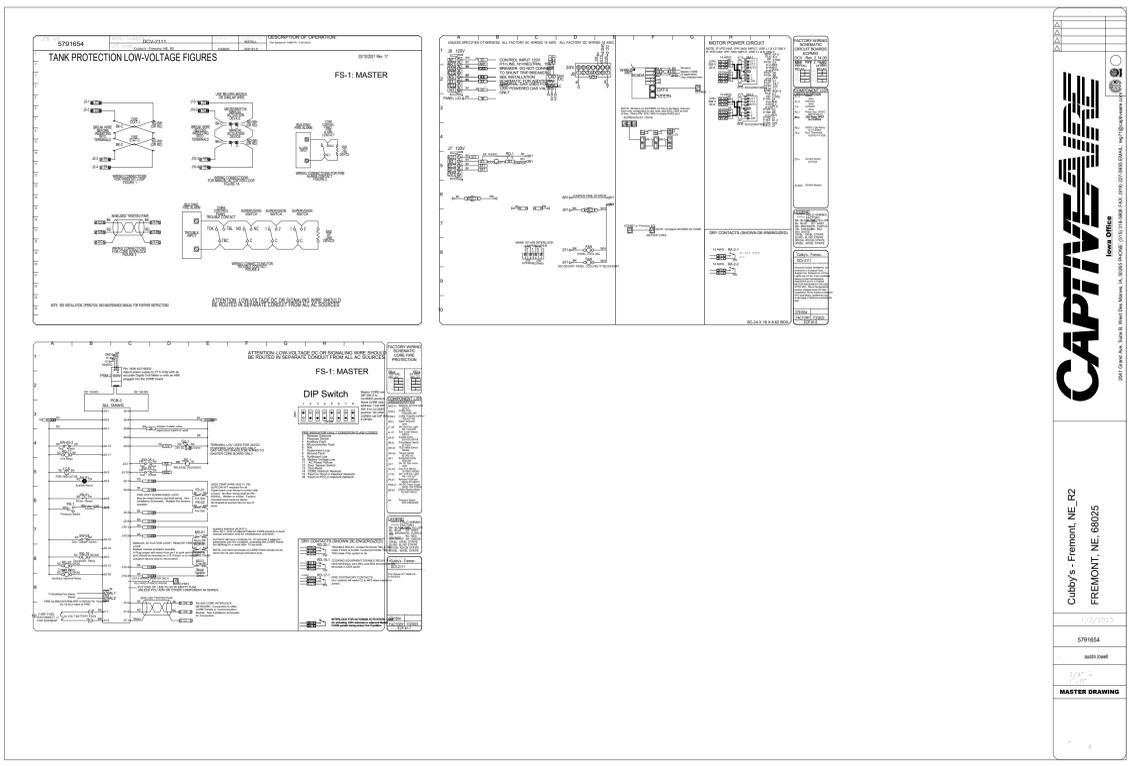
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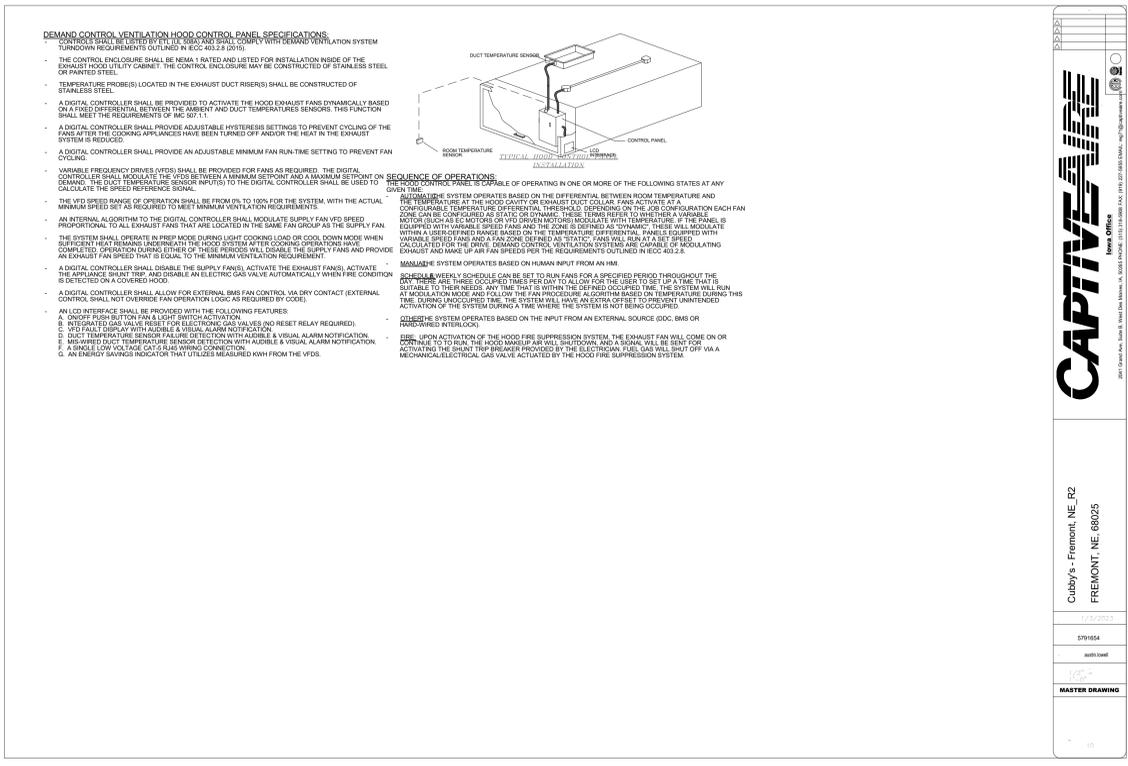
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CUBBY'S INC.

**SUPPLEMENTAL MECHANICAL DRAWINGS**

**M6-3**

CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023

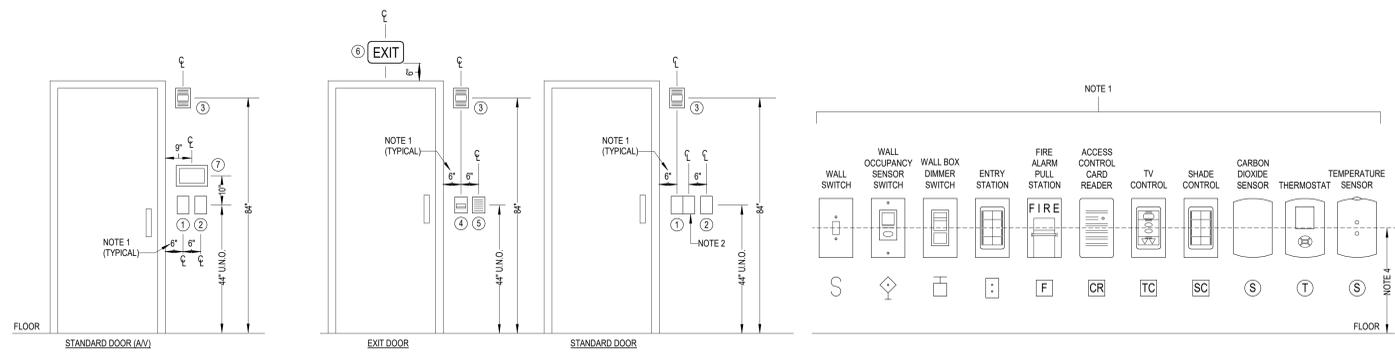
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- DEVICES**
- WALL SWITCH, WALL OCCUPANCY SENSOR, WALL BOX DIMMER SWITCH, OR ENTRY STATION
  - THERMOSTAT, TEMPERATURE SENSOR, OR CARBON DIOXIDE SENSOR ROUGH-IN
  - FIRE ALARM AUDIOVISUAL INDICATING DEVICE
  - FIRE ALARM PULL STATION
  - ACCESS CONTROL CARD READER
  - EXIT SIGN
  - AV TOUCHSCREEN

- NOTES**
- ALIGN DEVICES VERTICALLY AND HORIZONTALLY WHEREVER POSSIBLE. NOT ALL DEVICES OR CONFIGURATIONS ARE DEPICTED ON THIS DETAIL. FOR ANY CONFIGURATIONS WITH FOUR OR MORE DEVICES, COORDINATE ARRANGEMENT WITH THE ENGINEER PRIOR TO ROUGH-IN. SEE FLOOR PLANS FOR INDIVIDUAL DOOR REQUIREMENTS.
  - WHERE MULTIPLE SWITCHES OR WALL BOX DIMMERS ARE GANGED TOGETHER, ALIGN FIRST GANG WITH DEVICES ABOVE AND AD DEVICES TO THE RIGHT AS REQUIRED.
  - DIMENSIONS ARE TO BE MEASURED FROM OUTSIDE EDGE OF DOOR FRAME OR TRIM. WHERE SIDE LIGHT WINDOWS ARE PROVIDED, DIMENSIONS SHOULD BE MEASURED FROM OUTSIDE EDGE OF SIDE LIGHT WINDOW FRAME OR TRIM.
  - ALL DEVICES SHALL BE LOCATED TO MAINTAIN ALL A.D.A. MOUNTING HEIGHT REQUIREMENTS AND SUCH THAT CENTER OF ADJACENT DEVICES ARE AT SAME ELEVATION. (TYPICALLY 44" A.F.F. TO CENTER OF DEVICE), NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.

**1** DEVICE ALIGNMENT DETAIL  
NOT TO SCALE

**GENERAL ELECTRICAL DEMOLITION NOTES**

- THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL FIXTURES, DEVICES AND EQUIPMENT REMOVED.
- WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS BACK TO THE SOURCE. ABANDON CONCEALED CONDUITS IN WALLS WHICH ARE NOT REMOVED.
- ALL EXISTING ELECTRICAL DEVICES, FIXTURES, EQUIPMENT, WIRING AND RACEWAYS INCLUDING DATA/COMMUNICATION SYSTEMS SHALL BE REMOVED UNLESS OTHERWISE INDICATED. WHERE EXISTING WALLS ARE TO BE REMOVED ALL ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE REMOVED. DISCONNECT POWER SO THAT DEVICES AND EQUIPMENT MAY BE REMOVED WITH WALLS. SEE ARCHITECTURAL DRAWINGS FOR WALLS TO BE REMOVED. ABANDON CONCEALED CONDUITS WHERE WALLS ARE NOT REMOVED. REUSE CONDUITS WHERE POSSIBLE. DEMOLITION IS NOT INDICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO THE BID DATE.
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. DISCONNECT AND REMOVE ELECTRICAL DEVICES, EQUIPMENT AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE NEW WORK.
- POWER TO EXISTING AREAS NOT BEING REMODELED SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR SHORT TERM OUTAGES NECESSARY FOR RECONNECTION OF EXISTING CIRCUITS, COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.
- COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY POWER AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED OR AS REQUIRED TO ALLOW THE OWNER TO OCCUPY THE SPACE.
- SUBSCRIPT 'E' INDICATES AN EXISTING FIXTURE OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING CONTINUITY UNLESS NOTED OTHERWISE.
- SUBSCRIPT 'R' INDICATES AN EXISTING FIXTURE OR DEVICE SCHEDULED FOR RELOCATION. REMOVE EXISTING FIXTURE OR DEVICE AND SALVAGE FOR REUSE. SEE NEW WORK PLANS FOR NEW LOCATION AND RECONNECT AS REQUIRED.
- UPDATE ALL PANELBOARD DIRECTORIES IMPACTED BY ELECTRICAL WORK.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING, AND REPLACEMENT OF ALL EXISTING WALLS, CEILING, FLOORS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF NEW ELECTRICAL WORK.

**GENERAL SITE NOTES**

- UTILITY LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE AND THE MOST ACCURATE INFORMATION AVAILABLE AT THE TIME OF DESIGN. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. PRIOR TO EQUIPMENT AND CONDUIT INSTALLATION, THE CONTRACTOR SHALL COORDINATE EXACT INSTALLATION DETAILS AND MODIFY WORK PLAN ACCORDINGLY TO MEET UTILITY REQUIREMENTS. CORRESPOND WITH UTILITY COMPANY PRIOR TO ANY SITE DEVELOPMENT THAT MAY IMPACT THE INSTALLATION SUCH AS IRRIGATION INSTALLATION, CONCRETE OR ASPHALT INSTALLATION, LANDSCAPING, ETC.
- CALL FOR UTILITY LOCATIONS PRIOR TO DIGGING.
- PROVIDE ALL REQUIRED EXCAVATION, TRENCHING, BORING, SHORING, BACKFILL, AND SURFACE REPAIR REQUIRED FOR INSTALLATION OF NEW UTILITIES.

**GENERAL LIGHTING NOTES**

- MINIMUM BRANCH CIRCUIT CONDUIT SHALL BE 1/2" MINIMUM DATA/COMMUNICATIONS CONDUIT SHALL BE 1". SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING BRANCH CIRCUITS.
- CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL SWITCHING AND DIMMING CONTROL.
- PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO ROOM LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND DIMMING CONTROL.
- SEE DEVICE ALIGNMENT DETAIL FOR INSTALLATION LOCATION OF DEVICES ADJACENT TO DOORS AND MOUNTING HEIGHT REQUIREMENTS.
- IN EXPOSED STRUCTURE AREAS (NO CEILINGS), ROUTE CONDUIT TIGHT TO DECK. CONDUIT SHALL BE ROUTED PARALLEL, OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER AND GROUPED WHERE POSSIBLE. PAINT EXPOSED CONDUIT AND BOXES TO MATCH STRUCTURE. IN FINISHED AREAS WITHOUT CEILINGS, EXPOSED WIRING OF ANY TYPE WILL NOT BE ALLOWED.
- ALL CABLING AND RACEWAY INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL CORRUGATED ROOF DECKING SHALL BE INSTALLED WITH THE REQUIRED CLEARANCE PER NEC SECTION 300.4(E).
- MINIMUM WIRE SIZE FOR EMERGENCY LIGHTING CIRCUITS SHALL BE #10 UNLESS OTHERWISE NOTED. ROUTED IN SEPARATE CONDUIT.
- LIGHTING CONTROLS:
  - SEE SPECIFICATIONS, LIGHTING CONTROL DEVICE SCHEDULE, AND DETAILS FOR ADDITIONAL LIGHTING CONTROL REQUIREMENTS.
  - ROUTE CABLING IN CONDUIT ABOVE DRYWALL CEILINGS AND WHERE CEILING IS EXPOSED, CONDUIT NOT REQUIRED ABOVE ACCESSIBLE CEILINGS. PROVIDE J-HOOK STYLE SUPPORTS FOR CABLING (MAXIMUM 60" SPACING).

**GENERAL SPECIAL SYSTEMS NOTES**

- SPECIAL SYSTEMS ROUGH-INS PROVIDED BY ELECTRICAL CONTRACTOR.
- PROVIDE UL LISTED FIRESTOP AND SMOKESTOP ASSEMBLIES FOR ALL RATED PENETRATIONS.
- PROVIDE TWO-HOLE, DOUBLE CRIMP, GROUNDING LUGS WITH VIEWING HOLES, SIZED TO MATCH CONDUCTORS.
- PROVIDE STAINLESS STEEL MOUNTING HARDWARE FOR ALL GROUND CONNECTIONS.
- MECHANICALLY LABEL ALL GROUND BARS AND CONNECTIONS TO GROUND BARS.

**GENERAL POWER NOTES**

- MINIMUM BRANCH CIRCUIT CONDUIT SHALL BE 1/2" MINIMUM DATA/COMMUNICATIONS CONDUIT SHALL BE 1". SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- PROVIDE A GREEN INSULATED GROUND WIRE IN ALL RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.
- SEE DEVICE ALIGNMENT DETAIL FOR INSTALLATION LOCATION OF DEVICES ADJACENT TO DOORS AND MOUNTING HEIGHT REQUIREMENTS.
- PROVIDE TAMPER RESISTANT RECEPTACLES PER NEC 406.12. TAMPER RESISTANT RECEPTACLES ARE NOT INDICATED ON THE DRAWINGS.
- INSTALL CONVENIENCE RECEPTACLES AT EQUIPMENT REQUIRING SERVICING PER 2017 NEC 210.63.
- IN EXPOSED STRUCTURE AREAS (NO CEILINGS), ROUTE CONDUIT TIGHT TO DECK. CONDUIT SHALL BE ROUTED PARALLEL, OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER AND GROUPED WHERE POSSIBLE. PAINT EXPOSED CONDUIT AND BOXES TO MATCH STRUCTURE. IN FINISHED AREAS WITHOUT CEILINGS, EXPOSED WIRING OF ANY TYPE WILL NOT BE ALLOWED.
- UNLESS NOTED OTHERWISE, ALL CABLING AND RACEWAY INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL CORRUGATED ROOF DECKING SHALL BE INSTALLED WITH THE REQUIRED CLEARANCE PER NEC SECTION 300.4(E).
- CONTRACTOR SHALL COORDINATE LOCATION OF LUMINAIRES, SPEAKERS, FIRE ALARM, ETC. WITH FIRE RATED WALLS AND CEILINGS AND PROVIDE ENCLOSURES AS REQUIRED TO MAINTAIN THE FIRE RATING INTEGRITY. COORDINATE EXACT LOCATIONS OF FIRE RATED WALLS AND CEILINGS WITH ARCHITECTURAL DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- COORDINATE MOUNTING HEIGHT AND EXACT LOCATION OF DEVICES FOR ALL TVs WITH ARCHITECT PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL THERMOSTATS AND/OR SENSORS. ROUGH-IN TO INCLUDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 1/2" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING. LOCATE BOX AT 44" AFF. ALIGNED VERTICALLY AND HORIZONTALLY WITH ADJACENT ELECTRICAL DEVICES. REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT AND SENSOR LOCATIONS.

ELECTRICAL SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>LIGHTING</b>			
1	LUMINAIRE	2	SINGLE POLE SWITCH
1-1	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT OR BATTERY	2-1	4-WAY SWITCH
1-2	STRIP LUMINAIRE	1-3	WALL BOX DIMMER SWITCH
1-3	WALL MOUNTED LUMINAIRE	1-4	WALL MOUNTED MOTOR SENSORSWITCH
1-4	TRACK LUMINAIRE	1-5	WALL MOUNTED MOTOR SENSORSWITCH WITH 0-10V DIMMING
1-5	EMERGENCY BATTERY PACK	1-6	LOW VOLTAGE LIGHTING CONTROL SWITCH
1-6	CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW	1-7	WALL MOUNTED PHOTOCELL
1-7	WALL OR CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW	1-8	CEILING MOUNTED PHOTOCELL POWER PACK
1-8	POLE MOUNTED LUMINAIRE	1-9	POLE MOUNTED PHOTOCELL POWER PACK
1-9	BOLLARD LUMINAIRE		
<b>FIRE ALARM</b>			
1-10	FIRE ALARM BELL DETECTOR	1-11	FIRE ALARM HORN & STROBE COMBINATION
1-11	FIRE ALARM HEAT DETECTOR	1-12	FIRE ALARM HORN & STROBE COMBINATION
1-12	DUCT MOUNTED SMOKE DETECTOR	1-13	CEILING FIRE ALARM STROBE
1-13	FIRE ALARM MANUAL PULL STATION	1-14	WALL FIRE ALARM STROBE
1-14	FIRE SPRINKLER VALVE TAMPER SWITCH	1-15	CEILING FIRE ALARM HORN & STROBE COMBINATION
1-15	FIRE SPRINKLER LOW SWITCH	1-16	WALL FIRE ALARM HORN & STROBE COMBINATION
1-16	FIRE ALARM CONTROL PANEL	1-17	CEILING FIRE ALARM SPEAKER & STROBE COMBINATION
1-17	FIRE ALARM ANNUNCIATOR PANEL	1-18	CEILING FIRE ALARM SPEAKER
1-18	FIRE ALARM INDICATOR DOOR KICKER	1-19	WALL FIRE ALARM SPEAKER
<b>POWER</b>			
1-20	DUPLX RECEPTACLE	1-21	CEILING MOUNTED DOUBLE DUPLX RECEPTACLE
1-21	1/2" GENIEVES GFPT TYPE	1-22	FLOOR BOX - COMBINATION POWER & DATA
1-22	1/2" GENIEVES ISOLATED BRONKING TYPE	1-23	POLE MOUNTED COMBINATION POWER & DATA
1-23	1/2" GENIEVES HOSPITAL GRADE TYPE	1-24	FLOOR MOUNTED DUPLX RECEPTACLE
1-24	1/2" GENIEVES TAMPER RESISTANT TYPE	1-25	MOTOR 1/2" GENIEVES (HOSPITAL/POWER RATING)
1-25	1/2" GENIEVES INVERTERIAL SERIAL BUS USER TYPE	1-26	DISCONNECT SWITCH
1-26	DOUBLE SHAKING GENIEVES SPURT WIPED DEVICE	1-27	TRIPLESS ELEMENT SWITCH
1-27	BRACK SHAKING GENIEVES SPURT WIPED DEVICE	1-28	SWITCH & FUSIBLE
1-28	HORIZONTAL MOUNTED DUPLX RECEPTACLE	1-29	SWITCH & FUSIBLE
1-29	CEILING MOUNTED DUPLX RECEPTACLE	1-30	MAGNETIC MOTOR STARTER
1-30	DOUBLE DUPLX RECEPTACLE	1-31	COMBINATION MAGNETIC STARTER/RECONNECT
1-31	SMALL RECEPTACLE	1-32	MOTOR CONTROL PANEL/CONTROL STATION
1-32	DRYER RECEPTACLE NEMA 14-30 (250V 50A)	1-33	RELAY
1-33	RANGE RECEPTACLE NEMA 14-50 (250V 50A)	1-34	RELAY
1-34	1/2" GENIEVES RECEPTACLE NEMA 4-15 (200V 15A)	1-35	MULTI-OUTLET ASSEMBLY - LENGTH AS INDICATED
1-35	SPECIAL PURPOSE RECEPTACLE NEMA CORDS AS NOTED		
<b>COMMUNICATION</b>			
1-36	WALL PHONE OUTLET	1-37	INTERCOM CEILING SPEAKER
1-37	WALL COMMUNICATIONS DATA OUTLET	1-38	INTERCOM WALL SPEAKER
1-38	CEILING COMMUNICATIONS DATA OUTLET	1-39	SOUD REINFORCEMENT WALL SPEAKER
1-39	CEILING WIRELESS ACCESS POINT OUTLET	1-40	SOUD REINFORCEMENT CEILING SPEAKER
1-40	TELEPHONE/VISUAL OUTLET	1-41	WALL TELEPHONE OUTLET
1-41	WALL FLOOR	1-42	CEILING MICROPHONE OUTLET
1-42	VOLUME CONTROL	1-43	CALL IN DEVICE
1-43	BARNET CABLE TRAY	1-44	LADDER CABLE TRAY
1-44	AV RACK OUTLET		
<b>GENERAL</b>			
1-45	LIGHTING PANEL	1-46	WALL MOUNTED JUNCTION BOX
1-46	DISTRIBUTION PANEL, SWITCHBOARD OR MOTOR CONTROL CENTER	1-47	INTERCOM WALL SPEAKER
1-47	CABINET ENCLOSURE OR CONTROL PANEL TYPE INDICATED ON PLANS	1-48	CONDUIT SEAL
1-48	BRANCH CIRCUIT - EXPOSED	1-49	CONDUIT SEAL
1-49	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	1-50	CONDUIT UP
1-50	BRANCH CIRCUIT CONCEALED IN FLOOR	1-51	CONDUIT STEEL CUT
1-51	BRANCH CIRCUIT - CLASS TWO WIRING	1-52	CIRCUIT BREAK
1-52	HOMERUN TO PANEL, QUANTITY OF WIRING INDICATES QUANTITY OF CIRCUITS	1-53	RELAY
1-53	SPECIAL PURPOSE HOMERUN AS INDICATED	1-54	PUSH BUTTON
1-54	CONDUIT (CONDUIT BELIEVE SIZE INDICATED ON PLANS)	1-55	Buzzer
1-55	SUBSCRIPT 'WP' APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF	1-56	BUZZER
1-56	NEW TYPE 'R' OR EQUIVALENT	1-57	NEW TYPE 'R' OR EQUIVALENT
1-57	SUBSCRIPT 'R' APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF	1-58	SUBSCRIPT 'R' ADDED TO ANY SYMBOL, INDICATES EXISTING
1-58	NEW TYPE 'R' OR EQUIVALENT	1-59	SUBSCRIPT 'R' ADDED TO ANY SYMBOL, INDICATES RELOCATED
1-59	SUBSCRIPT 'R' APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF	1-60	WHERE CIVIL IS SHOWN ON PLANS INDICATES A TYPICAL OR LOCATION
1-60	NEW TYPE 'R' OR EQUIVALENT	1-61	SUBSCRIPT 'LA' ADDED TO ANY SYMBOL, INDICATES LAMP LOCATION
1-61	SUBSCRIPT 'SP' APPLIED TO ANY SYMBOL, INDICATES SPECIFICATION PROOF	1-62	SUBSCRIPT 'L' ADDED TO ANY SYMBOL, INDICATES RE-OPERATED
1-62	CLASS GROUP A DIVISION AS NOTED	1-63	SUBSCRIPT 'P' ADDED TO ANY SYMBOL, INDICATES PILOT LIGHT

**Interior Lighting Compliance Certificate**

**Project Information**  
Energy Code: 2018 IECC  
Project Type: New Construction

**Allowed Interior Lighting Power**

RETAIL	AREA CATEGORY	FLOOR AREA (FT <sup>2</sup> )	ALLOWED WATTS/FT <sup>2</sup>	ALLOWED WATTS	ACTUAL WATTS	PASS
		12474 SF	1.06 W/FT <sup>2</sup>	13222 W	6833 W	Yes

**Proposed Interior Lighting Power**

FIXTURE ID	DESCRIPTION	# OF FIXTURES	FIXTURE WATT	TOTAL WATTS	EXEMPTION
A	2x2 TROFFER	128	30 W	3840 W	
B	2x2 TROFFER EMERGENCY	23	30 W	690 W	
D	SINGLE TUBE LED STRIP LIGHT	11	0 W	0 W	
E1	SINGLE FACE EXIT SIGN	3	2 W	7 W	
E2	DOUBLE FACE EXIT SIGN	1	4 W	4 W	
F	4" ROUND DOWNLIGHT	52	22 W	1154 W	
FE	4" ROUND DOWNLIGHT	4	22 W	88 W	
H	EXTERIOR WALL PACK	2	25 W	50 W	
J	DECORATIVE PENDANT	2	11 W	22 W	
K	4" ROUND DOWNLIGHT	41	22 W	910 W	
KE	4" ROUND DOWNLIGHT	3	22 W	67 W	
<b>Total Proposed Watts</b>				<b>6833 W</b>	

**Interior Lighting PASSING**

**Interior Lighting Compliance Statement**  
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_



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CUBBY'S INC.

**ELECTRICAL COVER SHEET**

**E0-0**

CONSTRUCTION DOCUMENTS  
BCDM No. 5459-00  
01/27/2023

MEI PROJECT NO. 22453

**morrissey engineering inc**  
mechanical | electrical | lighting | technology | commissioning

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**GENERAL NOTES**

1. SEE ELECTRICAL COVER SHEET E0.0 FOR ELECTRICAL GENERAL NOTES.

**KEYNOTES**

E001 REMOVE EXISTING PANELS AND ALL ASSOCIATED CONDUITS AND WIRING COMPLETE.



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**ARCHITECTURE + INTERIORS**

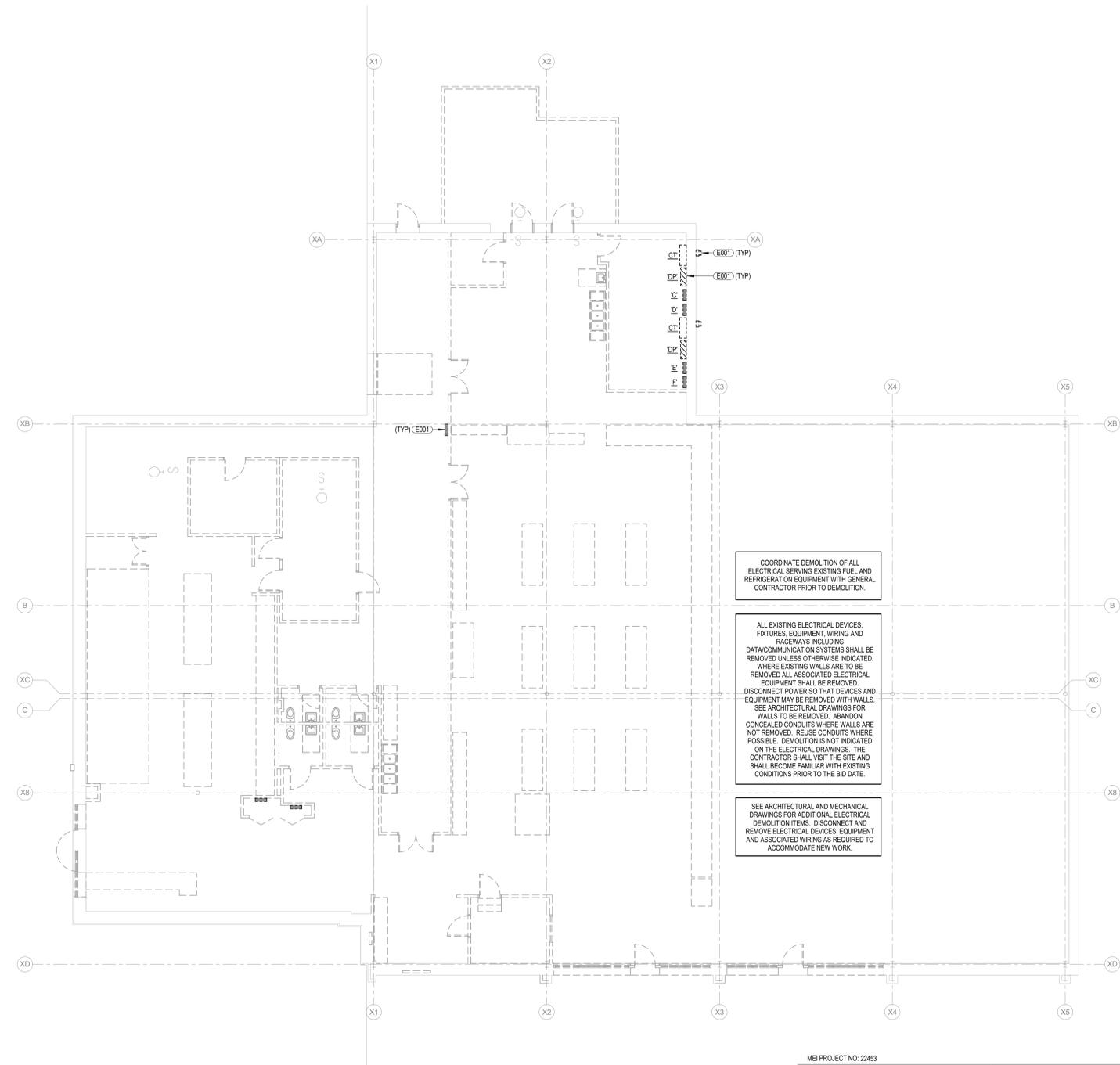
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COORDINATE DEMOLITION OF ALL ELECTRICAL SERVING EXISTING FUEL AND REFRIGERATION EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO DEMOLITION.

ALL EXISTING ELECTRICAL DEVICES, FIXTURES, EQUIPMENT, WIRING AND RACEWAYS INCLUDING DATA/COMMUNICATION SYSTEMS SHALL BE REMOVED UNLESS OTHERWISE INDICATED. WHERE EXISTING WALLS ARE TO BE REMOVED ALL ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE REMOVED. DISCONNECT POWER SO THAT DEVICES AND EQUIPMENT MAY BE REMOVED WITH WALLS. SEE ARCHITECTURAL DRAWINGS FOR WALLS TO BE REMOVED. ABANDON CONCEALED CONDUITS WHERE WALLS ARE NOT REMOVED. REUSE CONDUITS WHERE POSSIBLE. DEMOLITION IS NOT INDICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO THE BID DATE.

SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. DISCONNECT AND REMOVE ELECTRICAL DEVICES, EQUIPMENT AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE NEW WORK.

MEI PROJECT NO. 22453



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**1 FLOOR PLAN - ELECTRICAL DEMOLITION**  
ED1-1 1/8" = 1'-0" 0' 1' 2' 16'

**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

**FLOOR PLAN - ELECTRICAL DEMOLITION**

**ED1-1**

CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LIGHT SOURCE		ELECTRICAL		FINISH	MOUNTING	REMARKS
				SPEC.	CCT	TYPE	LOAD			
A	2x2 TROFFER	MAXLITE	MLFP-2EP3040-V3	3,360 LM	4000K	LED	30 W	120 V	WHITE	RECESSED
B	2x2 TROFFER EMERGENCY	MAXLITE	MLFP-2EP3040-V3-EM	3,360 LM	4000K	LED	30 W	120 V	WHITE	RECESSED
D	SINGLE TUBED STRIP LIGHT	TBD	TBD	TBD	4000K	LED	0 W	120 V	WHITE	SURFACE
E1	SINGLE FACE EXIT SIGN	PHILLIPS CHLORIDE	CLC-N-RB	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	120 V	WHITE	NOTE 1
E2	DOUBLE FACE EXIT SIGN	PHILLIPS CHLORIDE	CLC-N-RB	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	4 W	120 V	WHITE	NOTE 1
F	4" ROUND DOWNLIGHT	LSI LIGHTING	LC04-LED-24L-UNV-DIM-40-FL / TR4R-HAZ	2,400 LM	4000K	LED	22 W	120 V	SILVER	RECESSED
FE	4" ROUND DOWNLIGHT	LSI LIGHTING	LC04-LED-24L-UNV-DIM-40-FL / TR4R-HAZ / EM	2,400 LM	4000K	LED	22 W	120 V	SILVER	RECESSED
H	EXTERIOR WALL PACK	LITHONIA	WST-LED-P2-40K-VW-MVOLT-BB-WC-DDBOX	3,000 LM	4000K	LED	25 W	120 V	DARK BROZE	WALL
J	DECORATIVE PENDANT	MUUTO	UNFOLD PENDANT LAMP	-	4000K	LED	11 W	120 V	DUSTY RED	SUSPENDED
K	4" ROUND DOWNLIGHT	LSI LIGHTING	LC04-LED-24L-UNV-DIM-40-FL / TR4R-HAZ / WH	2,400 LM	4000K	LED	22 W	120 V	WHITE	RECESSED
KE	4" ROUND DOWNLIGHT	LSI LIGHTING	LC04-LED-24L-UNV-DIM-40-FL / TR4R-HAZ / WH / EM	2,400 LM	4000K	LED	22 W	120 V	WHITE	RECESSED

GENERAL REQUIREMENTS:

- A. CONTRACTOR SHALL VERIFY CATALOG NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED INSTALLATION.
- B. CONTRACTOR SHALL COORDINATE CEILING TRIM OPTIONS FOR LUMINAIRES INSTALLED IN GRID-TYPE SUSPENDED CEILINGS. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- C. UNLESS NOTED OTHERWISE REFER TO PLANS FOR SUSPENSION LENGTHS REQUIRED FOR ALL SUSPENDED LUMINAIRES.

LUMINAIRE SCHEDULE NOTES:

- 1. REFER TO PLANS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE LUMINAIRES ACCORDINGLY. PROVIDE DIRECTIONAL CHEVRON ARROWS AS INDICATED ON PLANS.

GENERAL NOTES

- 1. SEE ELECTRICAL COVER SHEET E0.0 FOR ELECTRICAL GENERAL NOTES.

KEYNOTES

- E101 CONNECT SWITCH DOWNSTREAM OF OCCUPANCY SENSORS. SWITCH SHALL SERVE AS MANUAL SHUTOFF ONLY.
- E102 PROVIDE NEW FOUR CHANNEL SEVEN DAY DIGITAL TIME CLOCK - TORX HDTS SERIES OR EQUAL. COORDINATE TIME CLOCK LOCATION WITH OWNER PRIOR TO ROUGH IN. PROVIDE 120V CONNECTION TO TIME CLOCK.
- E103 CONNECT EXIT LIGHTS TO DEDICATED CIRCUIT IN PANEL 'A'. PROVIDE LOCKABLE CIRCUIT BREAKER.
- E104 PROVIDE FINAL CONNECTION TO OWNER FURNISHED INTERNALLY ILLUMINATED SIGNAGE. COORDINATE REQUIREMENTS WITH ARCHITECTURAL EXTERIOR ELEVATIONS AND SIGNAGE SUPPLIER PRIOR TO ROUGH IN. PROVIDE TOGGLE SWITCH DISCONNECT CONCEALED WITHIN OR BEHIND SIGNAGE FOR POWER CONNECTIONS.
- E105 PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR. SEE SPECIFICATIONS. ROUTE CIRCUIT THROUGH NEW POWER PACK WITH AUXILIARY RELAYS AS REQUIRED. SEE DETAIL 'E1-1' FOR ADDITIONAL INFORMATION.
- E106 PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT. CONNECT TO SHUT DOWN MECHANICAL EQUIPMENT IN EVENT OF ALARM CONDITION. PROVIDE REMOTE INDICATOR / RESET STATION WHEN DUCT DETECTOR IS NOT LOCATED IN ACCESSIBLE CEILING SPACE. PROVIDE FIRE ALARM RELAY(S) TO SHUT DOWN ALL MECHANICAL EQUIPMENT SERVING SAME AIR SYSTEM.
- E107 INSTALL AND CONNECT LIGHT FIXTURES AND SWITCHES FURNISHED WITH WALK IN REFRIGERATION EQUIPMENT. SEE POWER PLAN FOR ADDITIONAL INFORMATION. COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO PURCHASE.

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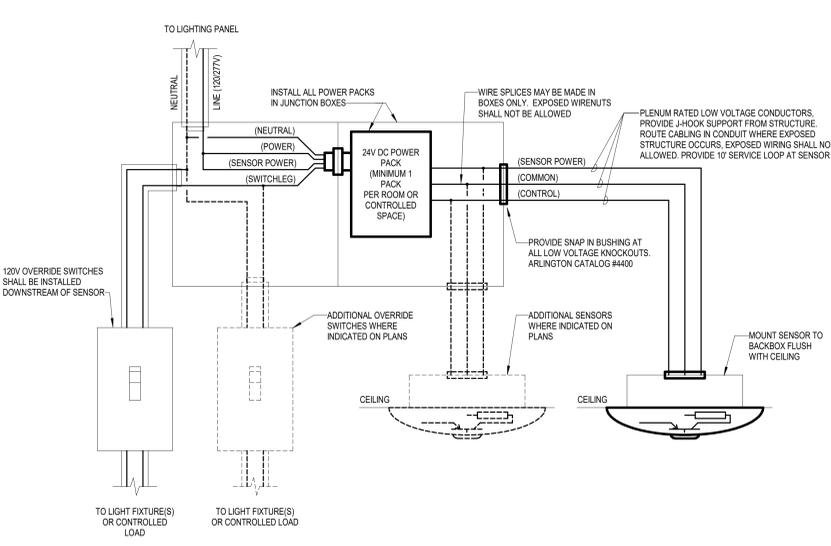
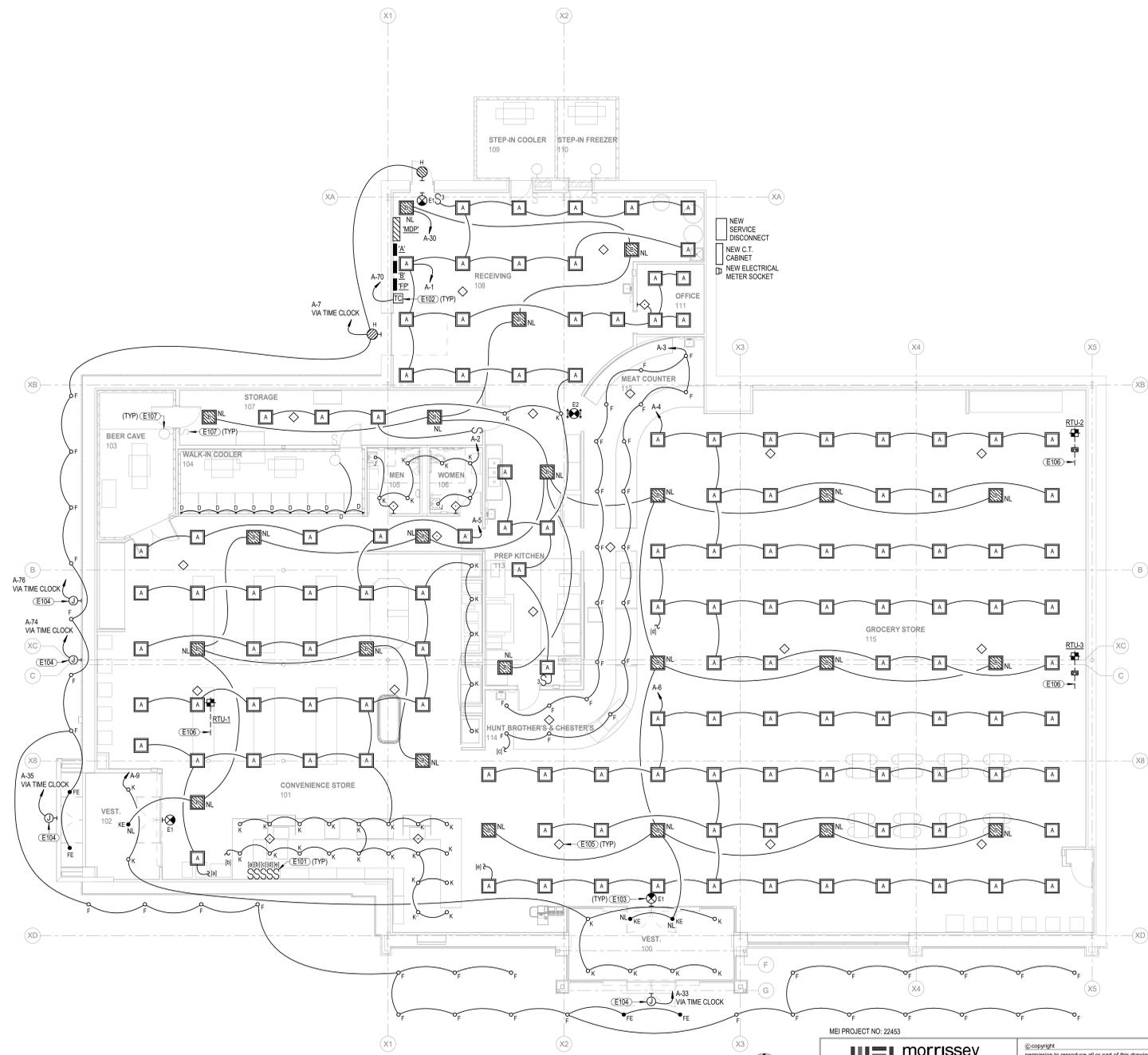
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CUBBY'S INC.

FLOOR PLAN - LIGHTING

E1-1

CONSTRUCTION DOCUMENTS  
 BCDM NO. 5459-00  
 01/27/2023



2 TYPICAL STAND ALONE TYPE OCCUPANCY SENSOR ROOM CONNECTION DETAIL  
 NOT TO SCALE

1 FLOOR PLAN - LIGHTING  
 1/8" = 1'-0" 0' 1' 2' 16'

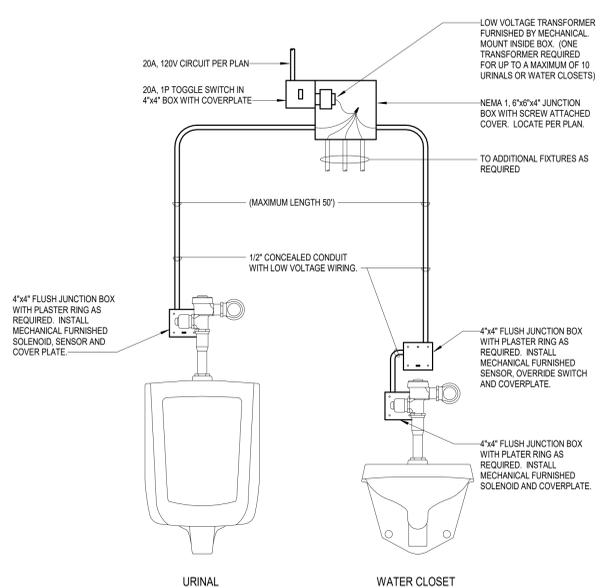
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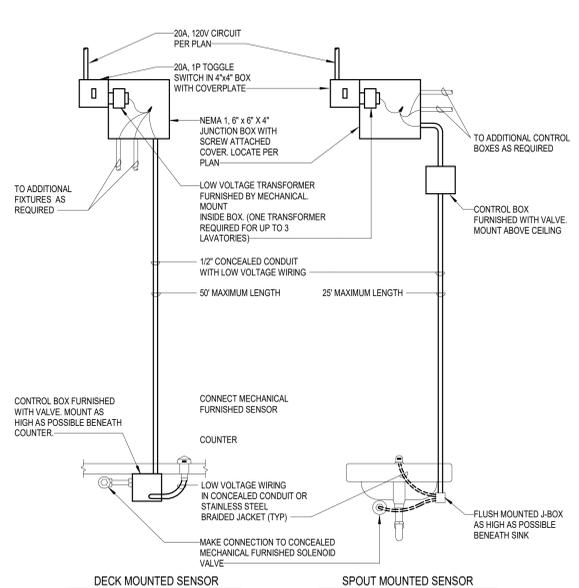
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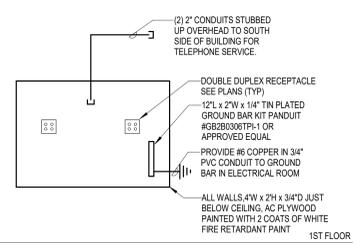
NOTES:  
 1. COORDINATE MOUNTING HEIGHTS AND ALL INSTALLATION REQUIREMENTS WITH VALVE INSTALLATION DRAWINGS AND WITH MECHANICAL CONTRACTOR.  
 2. MAKE FINAL CONNECTIONS TO ALL ASSOCIATED DEVICES.

6 AUTOMATIC FLUSHING CONTROL WIRING DIAGRAM  
 E2-1 NOT TO SCALE

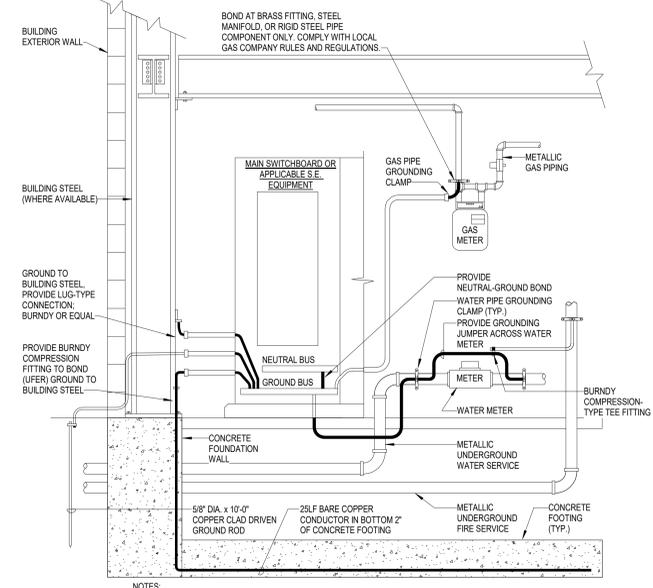


NOTES:  
 1. COORDINATE MOUNTING HEIGHTS AND ALL INSTALLATION REQUIREMENTS WITH VALVE INSTALLATION DRAWINGS AND WITH MECHANICAL CONTRACTOR.  
 2. MAKE FINAL CONNECTIONS TO ALL ASSOCIATED DEVICES.

5 AUTOMATIC LAVATORY FAUCET WIRING DIAGRAM  
 E2-1 NOT TO SCALE



4 COMMUNICATIONS BOARD DETAIL  
 E2-1 NOT TO SCALE



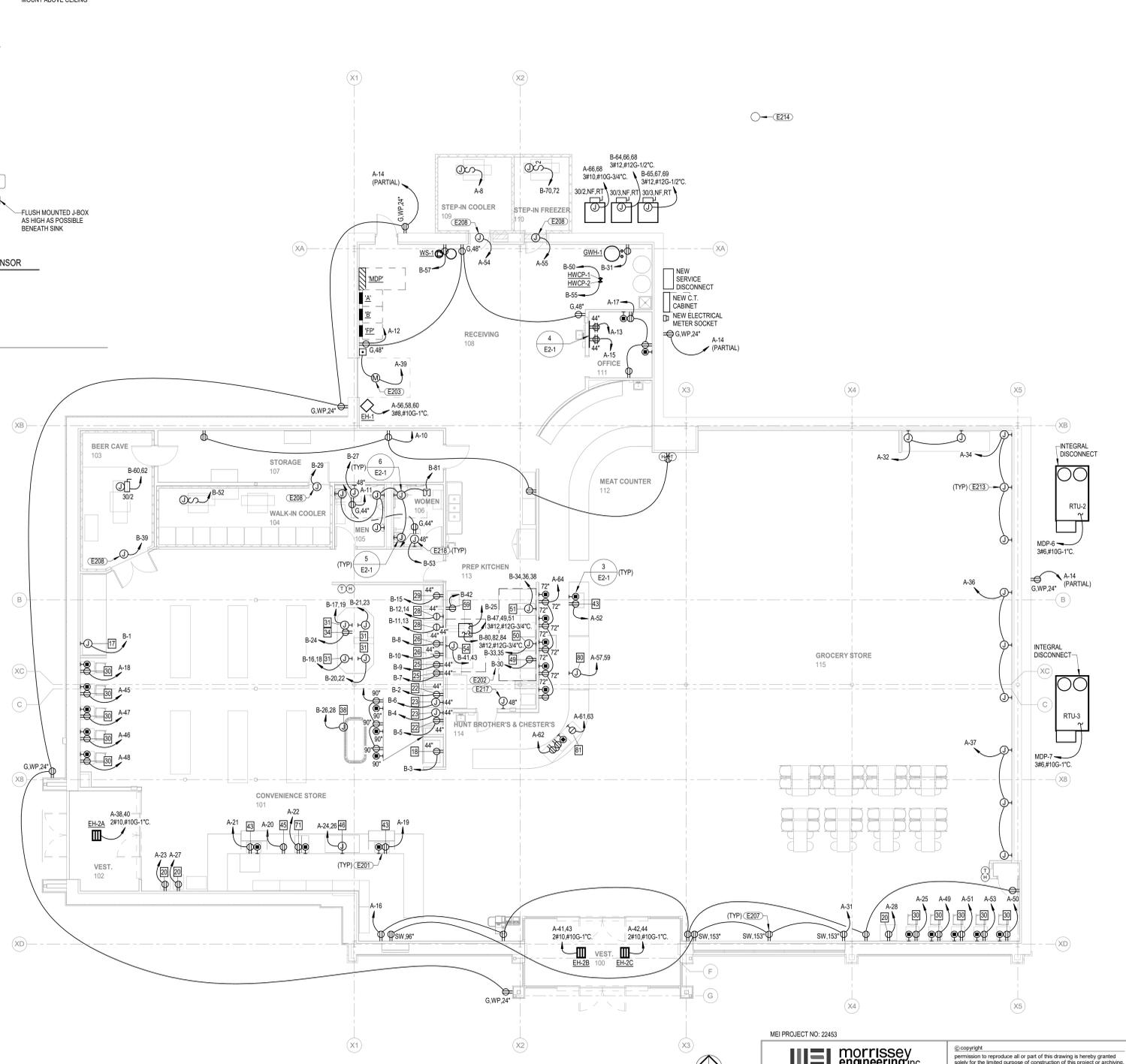
NOTES:  
 1. PHYSICAL LAYOUT SHOULD BE DETERMINED FROM FLOOR PLAN DRAWINGS AND FIELD DIMENSIONS.  
 2. ALL GROUNDING CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 250.66.  
 3. ALL CLAMPS AND FITTINGS SHALL BE UL LISTED FOR THE APPLICATION.

3 DATA/COMM ROUGH-IN DETAIL  
 E2-1 NOT TO SCALE

2 MAIN SERVICE GROUNDING DETAIL  
 E2-1 NOT TO SCALE

MARK	ITEM, NOTE 1	VOLTAGE	PH	MEI Load VA	HP (KW)	AMPS	CONNECTION		RECEPTACLE CONFIGURATION	MOUNTING HEIGHT	WIRE, GROUND, CONDUIT	REMARKS
							DIRECT	CORD AND PLUG				
17	BEER CRAFT CASE	120V	1	364 VA		3.33 A	-	X		16"	#12,#10G-1/2"C.	
18	ICE CREAM DISPLAY CASE	120V	1	180 VA	3/8 HP	1.5 A	-	X	NEMA 5-20R	44"	#12,#12G-1/2"C.	
20	<varies>	120V	1	780 VA			-	-		0"		
22	ICE AND POST MIX	120V	1	1116 VA		9.3 A	-	X	NEMA 5-20R	44"	#12,#12G-1/2"C.	
23	ICE MAKER	120V	1	1620 VA	3/4 HP	16 A	-	X		44"	#12,#12G-1/2"C.	
25	TEA BREWER	120V	1	1680 VA		14 A	-	X	NEMA 5-20R	44"	#12,#12G-1/2"C.	
26	FROZEN UN-CARBONATED BEVERAGE	120V	1	1440 VA		12 A	-	X	NEMA 5-20R	44"	#12,#12G-1/2"C.	
28	FROZEN CARBONATED BEVERAGE	208V	1	4160 VA		30/2	-	X	NEMA L6-30R	44"	#10,#10G-3/4"C.	
29	FREAL MILKSHAKES	120V	1	1800 VA		15 A	-	X	NEMA 5-20R	44"	#12,#12G-1/2"C.	
30	GAINING MACHINES	120V	1	180 VA			-	-		16"		
31	BEAN TO CLIP	208V	1	2400 VA		20 A	X	-		16"	#12,#12G-1/2"C.	
34	CREAMER	120V	1	384 VA		3.2 A	-	X	NEMA 5-20R	16"	#12,#12G-1/2"C.	
38	REFRIGERATED OPEN CASE	208V	1	1560 VA		13 A	-	X	NEMA L6-30R	0"	#10,#10G-3/4"C.	
43	CASH REGISTER	120V	1	1000 VA			-	-		16"		
45	SAFE	120V	1	500 VA			-	-	NEMA 5-20R	16"	#12,#12G-1/2"C.	
46	HEATED MERCHANDISER	208V	1	4700 VA	4.7 KW	22.4 A	X	-		16"	#10,#10G-3/4"C.	
49	FRYER	120V	1	284 VA			-	X	NEMA 5-20R	16"	#12,#12G-1/2"C.	
50	FRY KETTLE	208V	1	2000 VA	20 KW	58 A	X	-		16"	#6,#10G-1/2"C.	
51	GRIDDLE	208V	3	9000 VA	9 KW	14.44 A	X	-		16"	#12,#12G-1/2"C.	
54	CONVEYOR OVEN	208V	1	10000 VA	10 KW	48 A	X	-		16"	#6,#10G-1/2"C.	
59	PREP TABLE	120V	1	1176 VA		9.8 A	-	X	NEMA 5-20R	16"	#12,#12G-1/2"C.	
71	COUNTER SELF-CHECKOUT	120V	1	0 VA			-	-		16"		
80	CHESTERS HEATED MERCHANDISER	208V	1	6656 VA	6.7 KW	32 A	X	-		20"	#8,#10G-1/2"C.	
81	GODFATHERS CASE	208V	1	3120 VA	3.1 KW	15 A	-	X	NEMA 14-20R	16"	#10,#10G-3/4"C.	

NOTES:  
 1. INFORMATION INCLUDED IN SCHEDULE HAS BEEN BASED ON LIMITED DESIGN INFORMATION AVAILABLE AT TIME OF CONSTRUCTION DOCUMENTS. COORDINATE EQUIPMENT LOCATIONS, CONDUIT ROUTING, DEVICE MOUNTING HEIGHTS AND POWER CONNECTIONS INCLUDING VOLTAGE, PHASE, BREAKER, CONDUCTOR, CONDUIT AND RECEPTACLE CONFIGURATION WITH WITH OWNER, KITCHEN EQUIPMENT SUPPLIER AND REVIEWED KITCHEN EQUIPMENT SUBMITTALS PRIOR TO ROUGH IN AND PURCHASE OF LONG LEAD TIME EQUIPMENT. COORDINATE ANY CHANGES REQUIRED TO THE INFORMATION ABOVE WITH THE ENGINEER OF RECORD. MAKE ANY CHANGES REQUIRED AT NO ADDITIONAL COST TO OWNER.



1 FLOOR PLAN - POWER  
 E2-1 1/8" = 1'-0" 0' 1' 2' 16'

GENERAL NOTES  
 1. SEE ELECTRICAL COVER SHEET E0.0 FOR ELECTRICAL GENERAL NOTES.

KEYNOTES  
 E201 MOUNT POWER AND DATA DEVICES TO CASEWORK. COORDINATE DEVICE LOCATION, CONDUIT ROUTING, STUB UP LOCATIONS, ETC. WITH OWNER, GENERAL CONTRACTOR AND REVIEWED CASEWORK SHOP DRAWINGS PRIOR TO ROUGH IN. CONCEAL ALL CABLES AND RACEWAYS FROM VIEW.  
 E202 PROVIDE DEAD FRONT REMOTE GFCI DEVICE IN SINGLE GANG JUNCTION BOX. RUN BRANCH CIRCUIT SERVING EQUIPMENT THROUGH DEVICE. COORDINATE LOCATION OF DEVICE WITH OWNER PRIOR TO ROUGH IN.  
 E203 INSTALL AND PROVIDE FINAL CONNECTION TO OVERHEAD DOOR MOTOR PROVIDED BY EQUIPMENT MANUFACTURER. PROVIDE ALL CONNECTIONS FROM MOTOR TO DOOR SENSOR AND PUSH BUTTONS. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH IN.  
 E207 MOUNT SHOW WINDOW RECEPTABLES (DESIGNATED WITH SUBSCRIPT 'SW') ABOVE GLAZING PER NEC 210.62.  
 E208 PROVIDE FINAL CONNECTION TO WALK IN EQUIPMENT INTERIOR LIGHTING. PRESSURE RELIEF PORTS, DOOR HEATERS, PILOT LIGHT SWITCH, ETC. FIELD COORDINATE EXACT ELECTRICAL REQUIREMENTS (BRANCH CIRCUIT SIZE, OVER CURRENT PROTECTION DEVICE SIZE, LOCAL DISCONNECTING MEANS, ETC.) WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH IN.  
 E213 RELOCATED EQUIPMENT. INSTALL DISCONNECTING MEANS REMOVED IN DEMOLITION AT IN NEW LOCATION. PROVIDE NEW BRANCH CIRCUIT CONDUCTORS AND RACEWAY FROM EXISTING BREAKER SERVING EQUIPMENT PRIOR TO RELOCATION. SIZE AND QUANTITY AS DOCUMENTED DURING DEMOLITION. COORDINATE LOCATION AND REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH IN.  
 E214 APPROXIMATE LOCATION OF EXISTING THREE POLE MOUNTED TRANSFORMERS (ABOUT 75'-0" AWAY). PROVIDE NEW SERVICE MAST ON BUILDING TO SERVE NEW ELECTRICAL SERVICE. COORDINATE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.  
 E217 PROVIDE ROUGH IN AND CONDUIT PATHWAY FOR ANSUL PULL STATION (PULL STATION PROVIDED BY OTHERS). COORDINATE REQUIREMENTS WITH ANSUL PULL STATION SUPPLIER PRIOR TO ROUGH IN.  
 E218 PROVIDE FINAL CONNECTION TO ELECTRIC WALL MOUNTED HAND DRYER. PROVIDE 60V, 30A RATED QUICK DISCONNECT FOR LOCAL DISCONNECTING MEANS WITHIN BODY OF HAND DRYER - NEMA 14-20 (MALE CONNECTOR) AND #12B3022 (FEMALE CONNECTOR). COORDINATE EXACT LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH IN. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH IN.



MEI PROJECT NO. 22453

**MEI morrissey engineering inc**  
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**GENERAL NOTES**

1. SEE ELECTRICAL COVER SHEET E0.0 FOR ELECTRICAL GENERAL NOTES.

**KEYNOTES**

- E205 DISCONNECT FURNISHED INTEGRAL WITH MECHANICAL EQUIPMENT. PROVIDE 120V CONNECTION TO MOTORIZED BACK DRAFT DAMPER. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. PROVIDE ENOUGH EXTRA FLEX CONDUIT TO ALLOW FAN TO BE TIPPED FOR CLEANING.
- E216 EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT SWITCH. PROVIDE CONNECTION TO MOTORIZED BACKDRAFT DAMPER. PROVIDE SPARE 1" C. FROM EQUIPMENT TO HOOD UTILITY CABINET SERVED.



**PROJECT TEAM**

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**STRUCTURAL ENGINEER**

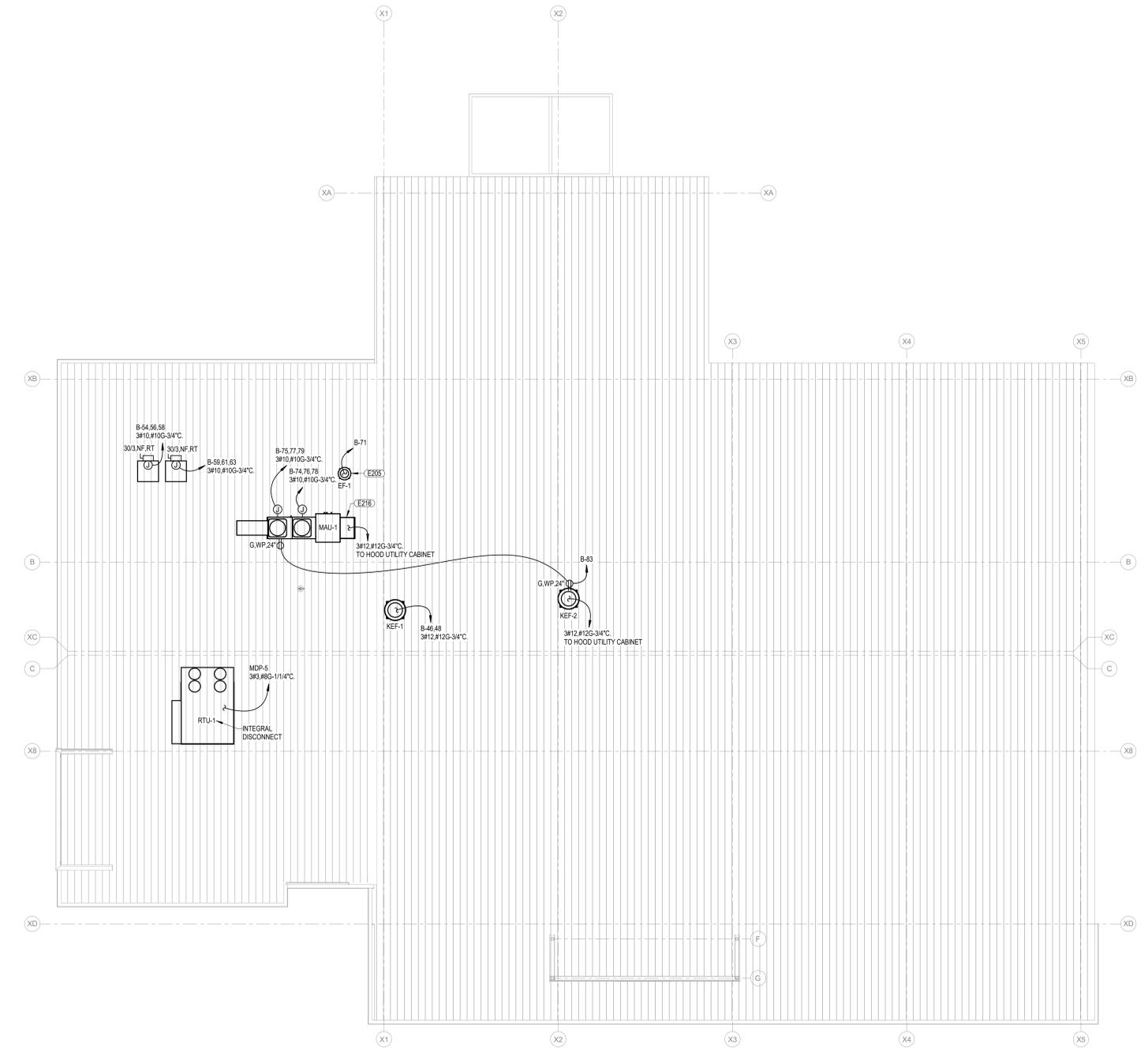
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**MECHANICAL + ELECTRICAL ENGINEER**

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01/27/2023



**1 ROOF PLAN - POWER**  
E2-2 1/8" = 1'-0" 0' 16'

MEI PROJECT NO. 22453

**MEI morrissey engineering inc.**  
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**CUBBY'S RENOVATION - FREMONT**

450 SOUTH BROAD STREET, FREMONT, NE 68025

CUBBY'S INC.

**ROOF PLAN - POWER**

**E2-2**

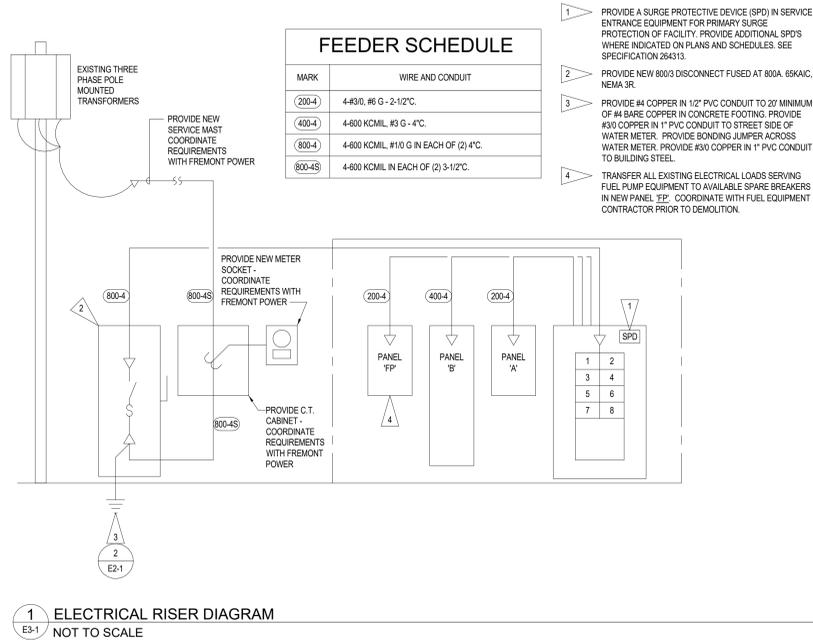
CONSTRUCTION DOCUMENTS  
BCDM NO. 5459-00  
01/27/2023

MECHANICAL CONNECTION SCHEDULE									
PLAN TAG	VOLTAGE	PHASE	DISCONNECT	BREAKER	MEI Load VA	CIRCUIT	WIRE AND CONDUIT	REMARKS	
EH-1	120 V	1	TIMECLOCK	202	998 VA	B-71		NOTE 1	
EH-1	208 V	3	INTEGRAL	303	10000 VA	A-56.58.60			
EH-2B	208 V	1	INTEGRAL	202	4000 VA	A-41.43			
EH-2A	208 V	1	INTEGRAL	202	4000 VA	A-36.40			
EH-2C	208 V	1	INTEGRAL	202	4000 VA	A-42.44			
GWH-1	120 V	1	1P TOGGLE SWITCH	201	500 VA	B-31			
HWCP-1	120 V	1	1P TOGGLE SWITCH	201	100 VA	B-50			
HWCP-2	120 V	1	1P TOGGLE SWITCH	201	100 VA	B-55			
KEF-1	208 V	1	INTEGRAL	202	790 VA	B-46.48			
KEF-2	208 V	3	INTEGRAL	203	2988 VA	B-47.48.51			
MAU-1	208 V	3	INTEGRAL	703	3744 VA	B-80.82.84			
RTU-1	208 V	3	INTEGRAL	903	26640 VA	MOP-5			
RTU-2	208 V	3	INTEGRAL	703	18720 VA	MOP-6			
RTU-3	208 V	3	INTEGRAL	703	18720 VA	MOP-7			
WS-1	120 V	1	201 BREAKER	201	500 VA	B-57			

- NOTES:**
- PROVIDE 120v CONNECTION FOR MOTORIZED BACK DRAFT DAMPER.

ELECTRIC HEAT SCHEDULE							
MARK	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTAGE	PHASE	LENGTH	REMARKS
EH-1	KING ELECTRIC	K82010-3MP-B2SFR.D540.EP-3	10000 WATTS	208 V	3		NOTE 1
EH-2	QIMARK	EFF4004	4000 WATTS	208 V	1		NOTE 1

- NOTES:**
- PROVIDE WITH INTEGRAL SERVICE DISCONNECT AND THERMOSTAT. INSTALL PER MANUFACTURERS INSTRUCTIONS.



- PROVIDE A SURGE PROTECTIVE DEVICE (SPD) IN SERVICE ENTRANCE EQUIPMENT FOR PRIMARY SURGE PROTECTION OF FACILITY. PROVIDE ADDITIONAL SPD'S WHERE INDICATED ON PLANS AND SCHEDULES. SEE SPECIFICATION 260313.
- PROVIDE NEW 800'S DISCONNECT FUSED AT 800A. 85KAC, NEMA 3R.
- PROVIDE #4 COPPER IN 1/2" PVC CONDUIT TO 30' MINIMUM OF #4 BARE COPPER IN CONCRETE FOOTING. PROVIDE #30 COPPER IN 1" PVC CONDUIT TO STREET SIDE OF WATER METER. PROVIDE BONDING JUMPER ACROSS WATER METER. PROVIDE #30 COPPER IN 1" PVC CONDUIT TO BUILDING STEEL.
- TRANSFER ALL EXISTING ELECTRICAL LOADS SERVING FUEL PUMP EQUIPMENT TO AVAILABLE SPARE BREAKERS IN NEW PANEL. EP: COORDINATE WITH FUEL EQUIPMENT CONTRACTOR PRIOR TO DEMOLITION.

LIGHTING PANEL SCHEDULE												
Panel: A				Voltage: 120/208								
Rating: 200 A				Phase: 3								
Mounting: SURFACE				Wires: 4								
Type: MLO W/GND. BAR				A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE								
Integral SPD: No												
Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
LTG - RECIEVE/OFFICE/PREP	L	20	1	1	...	...	...	2	1	20		LTG - RR/COOLERS
LTG - MEAT COUNTER	L	20	1	3	...	...	...	4	1	20		LTG - GROCERY STORE
LTG - CONVENIENCE STORE	L	20	1	5	...	...	...	6	1	20		LTG - GROCERY STORE
LTG - EXTERIOR	L	20	1	7	...	...	...	8	1	20		W.I.C. EVAPORATOR
LTG - VESTIBULES	L	20	1	9	...	...	...	10	1	20		REC - STORAGE
REC - RESTROOMS	L	20	1	11	...	...	...	12	1	20		REC - RECEIVING
REC - DATA	L	20	1	13	...	...	...	14	1	20		REC - EXTERIOR
REC - DATA	L	20	1	15	...	...	...	16	1	20		REC - GROCERY STORE
REC - OFFICE	L	20	1	17	...	...	...	18	1	20		GAMING MACHINE
CASH REGISTER	L	20	1	19	...	...	...	20	1	20		SAFE
CASH REGISTER	L	20	1	21	...	...	...	22	1	20		SELF-CHECKOUT
ATM	L	20	1	23	...	...	...	24	1	20		
GAMING MACHINE	L	20	1	25	...	...	...	26	2	20	L	HEATED MERCHANDISER
ATM	L	20	1	27	...	...	...	28	1	20		ATM
LTG - EXITS	L	20	1	29	...	...	...	30	1	20		LTG - NIGHT LIGHT
REC - WINDOWS	L	20	1	31	...	...	...	32	1	20	G	RELOCATED EQUIPMENT
BUILDING SIGNAGE	L	20	1	33	...	...	...	34	1	20	G	RELOCATED EQUIPMENT
BUILDING SIGNAGE	L	20	1	35	...	...	...	36	1	20	G	RELOCATED EQUIPMENT
RELOCATED EQUIPMENT	G	20	1	37	...	...	...	38	1	20		
OVERHEAD DOOR	L	20	1	39	...	...	...	40	2	20	25	EH-2A
EH-2B	L	25	2	41	...	...	...	42	2	20	25	EH-2C
GAMING MACHINE	L	20	1	45	...	...	...	46	1	20		GAMING MACHINE
GAMING MACHINE	L	20	1	47	...	...	...	48	1	20		GAMING MACHINE
GAMING MACHINE	L	20	1	49	...	...	...	50	1	20		GAMING MACHINE
GAMING MACHINE	L	20	1	51	...	...	...	52	1	20	G	CASH REGISTER
GAMING MACHINE	L	20	1	53	...	...	...	54	1	20		STEP-IN COOLER
STEP-IN FREEZER	L	20	1	55	...	...	...	56	1	20		
HEATED MERCHANDISER	L	20	2	57	...	...	...	58	3	35		EH-1
HUNTS BROS CASE	G	20	2	59	...	...	...	60	1	20	G	HUNTS BROS MENU
SPARE	--	20	1	65	...	...	...	66	2	20		MEAT COUNTER CONDENSER
SPARE	--	20	1	67	...	...	...	68	1	20		
SPARE	--	20	1	69	...	...	...	70	1	20		TIME CLOCK
SPARE	--	20	1	71	...	...	...	72	1	20		REC - TVS
SPARE	--	20	1	73	...	...	...	74	1	20		BUILDING SIGNAGE
SPARE	--	20	1	75	...	...	...	76	1	20		BUILDING SIGNAGE
SPARE	--	20	1	77	...	...	...	78	1	20		SPACE
SPARE	--	20	1	79	...	...	...	80	1	20		SPACE
SPARE	--	20	1	81	...	...	...	82	1	20		SPACE
SPARE	--	20	1	83	...	...	...	84	1	20		SPACE

**Options:**  
G - GFCl type circuit breaker. S - Shunt trip type circuit breaker.  
L - Locking handle type circuit breaker.

**Notes:**

LIGHTING PANEL SCHEDULE												
Panel: B				Voltage: 120/208								
Rating: 400 A				Phase: 3								
Mounting: SURFACE				Wires: 4								
Type: MLO W/GND. BAR				A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE								
Integral SPD: No												
Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
BEER GRANT CASE	L	20	1	1	...	...	...	2	1	20	G	ICE AND POST MIX
ICE CREAM DISPLAY CASE	G	20	1	3	...	...	...	4	1	20	L	ICE MAKER
ICE AND POST MIX	G	20	1	5	...	...	...	6	1	20	L	ICE MAKER
TEA BREWER	G	20	1	7	...	...	...	8	1	20	G	FROZEN UN-CARBONATED
TEA BREWER	G	20	1	9	...	...	...	10	1	20	G	FROZEN UN-CARBONATED
FROZEN CARBONATED	G	20	2	11	...	...	...	12	2	20	G	FROZEN CARBONATED
FREAL MILKSHAKES	G	20	1	13	...	...	...	14	1	20		
BEAN TO CUP	L	20	2	17	...	...	...	18	2	20	L	BEAN TO CUP
BEAN TO CUP	L	20	2	19	...	...	...	20	2	20	L	BEAN TO CUP
BEAN TO CUP	L	20	2	21	...	...	...	22	1	20		
HOOD UTILITY CABINET	L	20	2	23	...	...	...	24	1	20	G	CREAMER
HAND DRYER	L	20	1	25	...	...	...	26	2	20	L	REFRIGERATED OPEN CASE
WALK-IN COOLER	L	20	1	27	...	...	...	28	1	20		
WATER HEATER	L	20	1	31	...	...	...	32	1	20	--	SHUNT TRIP SPACE ONLY
FRY KETTLE	S	20	2	33	...	...	...	34	3	20	S	GRIDDLE
SHUNT TRIP SPACE ONLY	--	1	37	...	...	...	...	38	1	20		
BEER CAVE	L	20	1	39	...	...	...	40	1	20	--	SHUNT TRIP SPACE ONLY
CONVEYOR OVEN	S	20	2	43	...	...	...	44	1	20	--	SPARE
SHUNT TRIP SPACE ONLY	--	1	45	...	...	...	...	46	2	20		KEF-1
KEF-2	L	20	3	49	...	...	...	50	1	20		HWCP-1
HAND DRYER	L	20	1	53	...	...	...	54	1	20		W.I.C. EVAPORATOR
HWCP-2	L	20	1	55	...	...	...	56	3	30		BEER CAVE CONDENSER
WS-1	G	20	1	57	...	...	...	58	1	20		
W.I.C. CONDENSING UNIT	L	30	3	61	...	...	...	62	2	30		BEER CAVE EVAPORATOR
W.I.F. CONDENSING UNIT	L	20	3	67	...	...	...	68	3	20		W.I.C. CONDENSING UNIT
W.I.F. CONDENSING UNIT	L	20	1	71	...	...	...	72	2	20		W.I.F. EVAPORATOR
BACKDRAFT DAMPER	--	20	1	73	...	...	...	74	3	30		MAU-1 COND 2
MAU-1 COND 1	L	30	3	77	...	...	...	78	3	30		
WC AND LAV SENSORS	L	20	1	81	...	...	...	82	3	20		MAU-1
REC - ROOF	L	20	1	83	...	...	...	84	1	20		

**Options:**  
G - GFCl type circuit breaker. S - Shunt trip type circuit breaker.  
L - Locking handle type circuit breaker.

**Notes:**

DISTRIBUTION PANEL SCHEDULE					
Panel: MDP		Rating: 800 A		A.I.C. Rating: 65000	
Remarks: MAIN LUG ONLY W/GND. BAR		Phase: 3		Wires: 4	
Options:		S.E. Rated: YES			
CKT	NAMEPLATE DESIGNATION	RATING	REMARKS		
1	PANEL A	200 A	3		
2	PANEL FP	200 A	3		
3	PANEL B	400 A	3		
4	SPACE	400 A	3		
5	RTU-1	90 A	3		
6	RTU-2	70 A	3		
7	RTU-3	70 A	3		
8	SPACE	100 A	3		

**Notes:**

- THE CURRENT LIMITING PLUG IN THE CIRCUIT BREAKER OR THE BREAKER ITSELF MUST BE THE NEXT LOGICAL SIZE ABOVE THE SERVICE CONDUCTOR SIZE.
- A PERMANENT "RED" ENGRAVED PHENOLIC PLATE MUST BE INSTALLED ON OR ABOVE THE MAIN CIRCUIT BREAKER WITH THE FOLLOWING INFORMATION:
  - SERVICE SIZE - PER NEC.
  - ALL PROGRAMMED BREAKER SETTINGS.
  - "CAUTION - ANY CHANGES TO THESE SETTINGS COULD BE A POTENTIAL RISK TO LIFE AND PROPERTY"
- PROVIDE AN ARC ENERGY REDUCING MAINTENANCE SWITCH FOR EACH CIRCUIT BREAKER FRAME SIZE 1200 AMPS AND LARGER.

LIGHTING PANEL SCHEDULE												
Panel: FP				Voltage: 120/208								
Rating: 200 A				Phase: 3								
Mounting: SURFACE				Wires: 4								
Type: MLO W/GND. BAR				A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE								
Integral SPD: No												
Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
SPARE	--	15	1	1	...	...	...	2	100	--		SPARE
SPARE	--	20	1	3	...	...	...	4	1	20	--	SPARE
SPARE	--	20	1	5	...	...	...	6	1	20	--	SPARE
SPARE	--	15	1	7	...	...	...	8	1	20	--	SPARE
SPARE	--	15	1	9	...	...	...	10	1	15	--	SPARE
SPARE	--	20	2	11	...	...	...	12	2			