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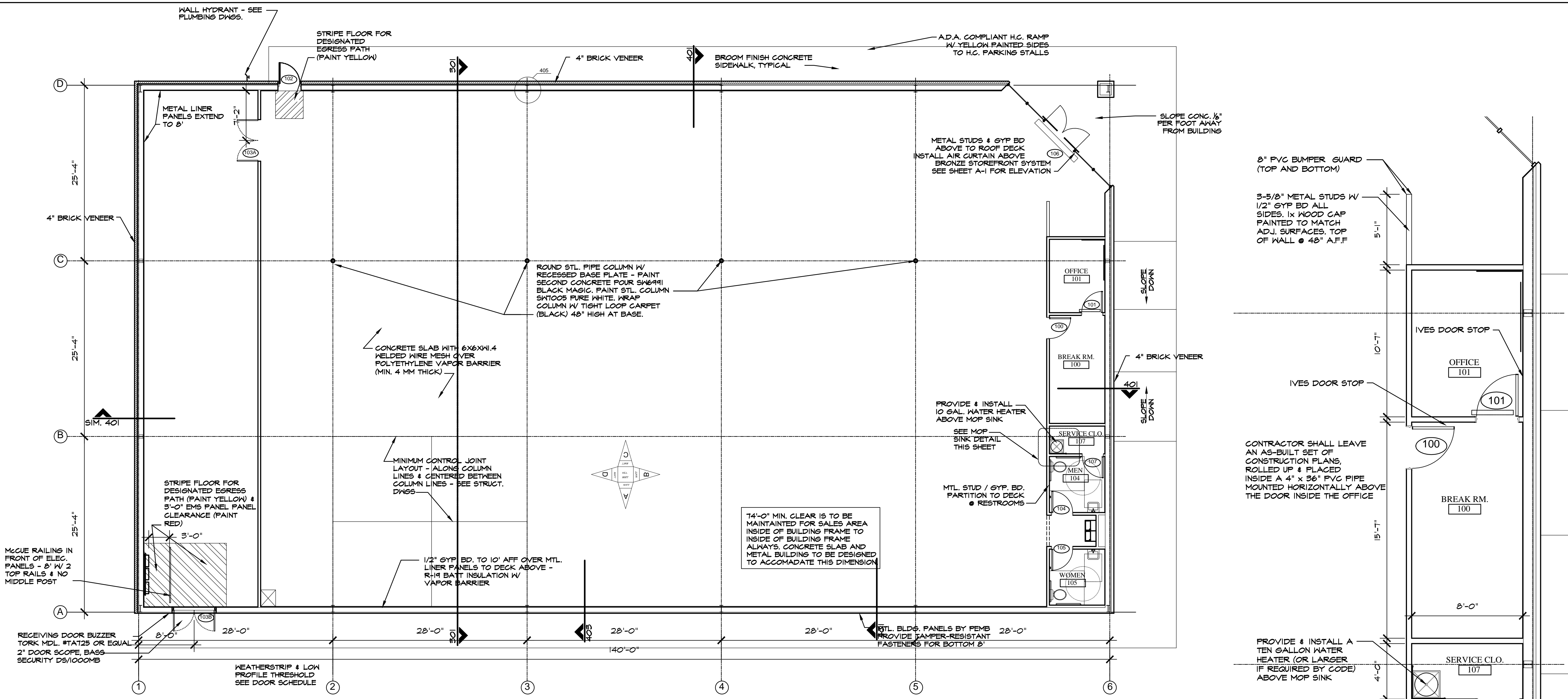
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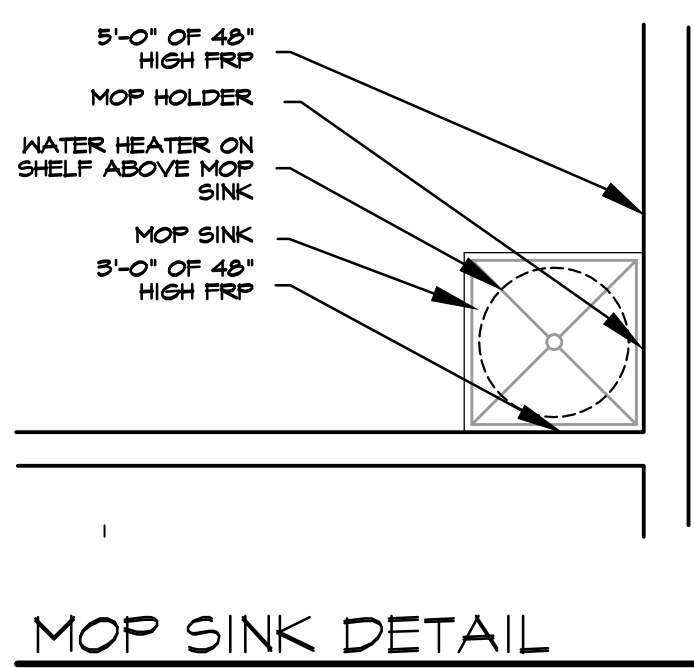
**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NORTH CAROLINA

JOB NUMBER  
 DRAWN BY  
 MAH  
 DATE  
 04/04/22  
 REVISIONS

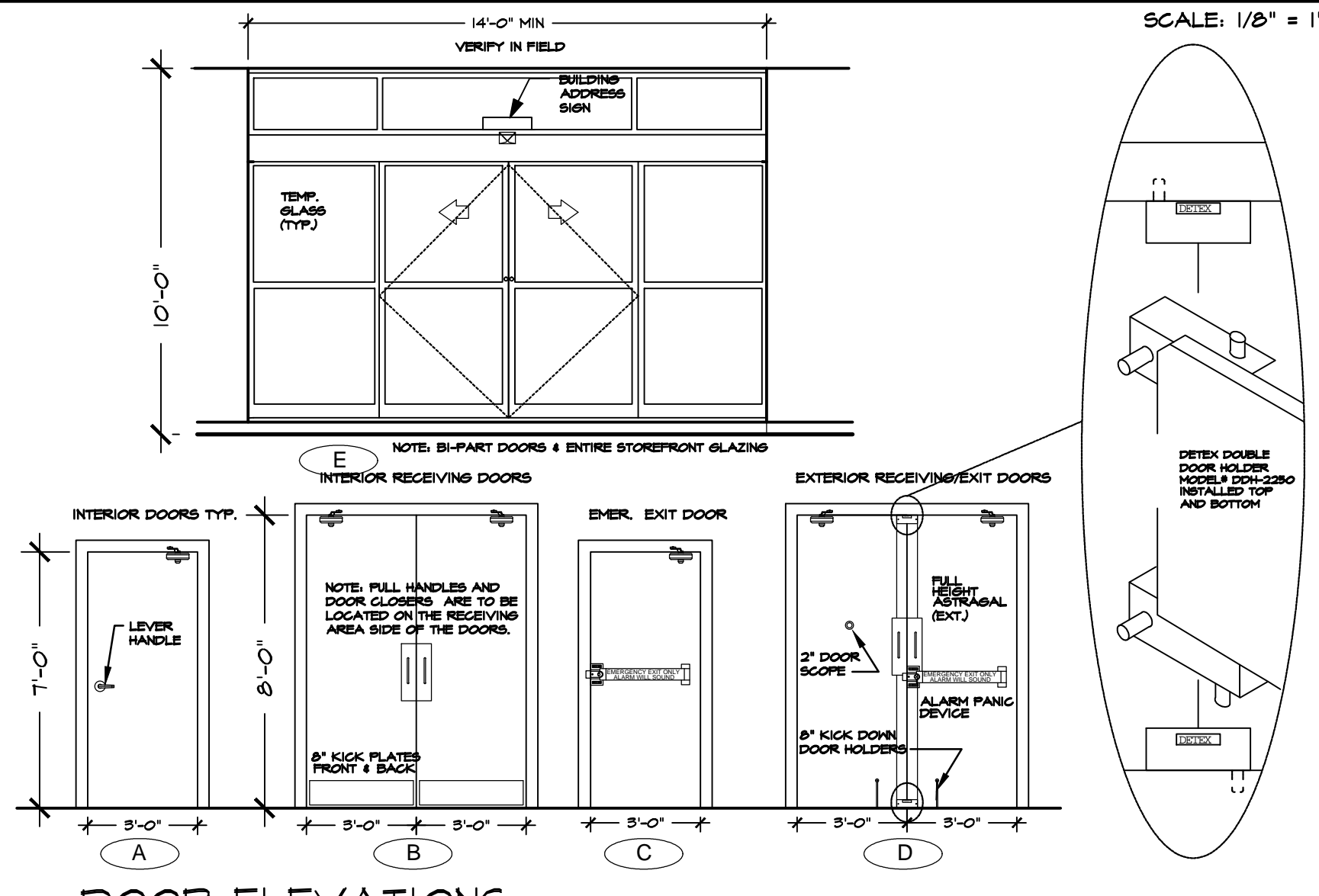
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**A-1**  
 OF



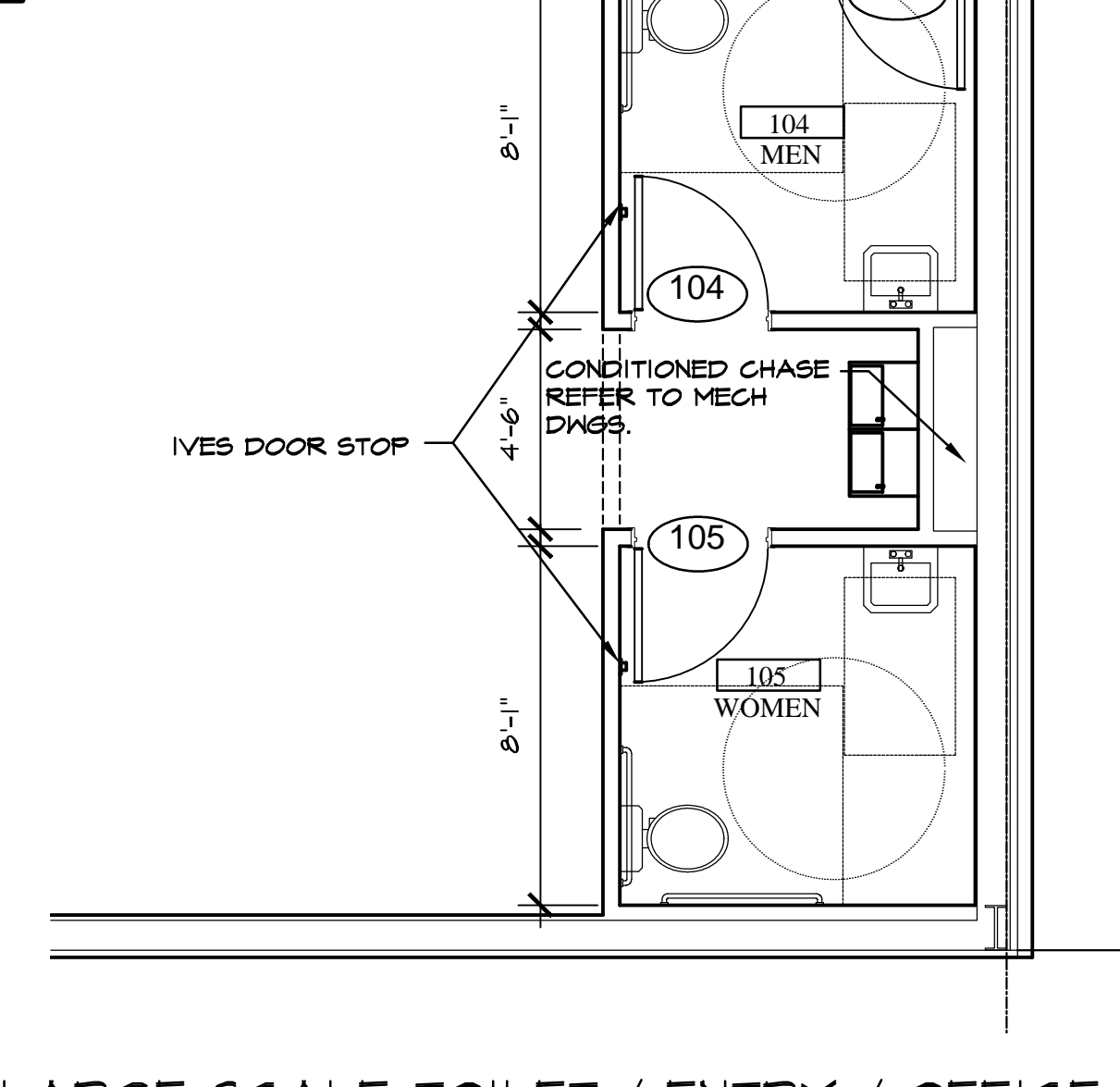
**FLOOR PLAN** NOTE: ALL CONTRACTORS SHALL REVIEW & MAINTAIN 11 X 17 DOLLAR GENERAL CURRENT PROTOTYPE PLAN "F" DGP BUILD-TO-SUIT PACKAGE ON JOB SITE



**MOP SINK DETAIL** SCALE: 1/2" = 1'-0"



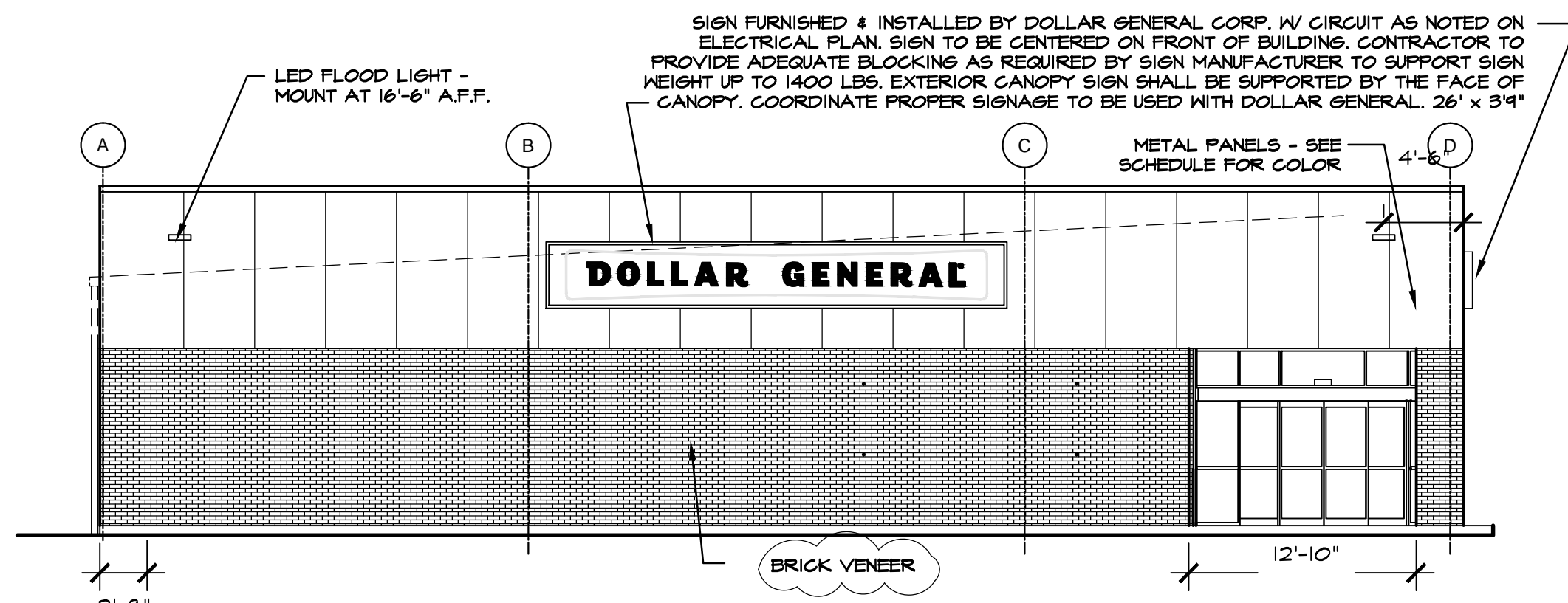
**DOOR ELEVATIONS** SCALE: 1/4" = 1'-0"



**LARGE SCALE TOILET / ENTRY / OFFICE** SCALE: 1/4" = 1'-0"

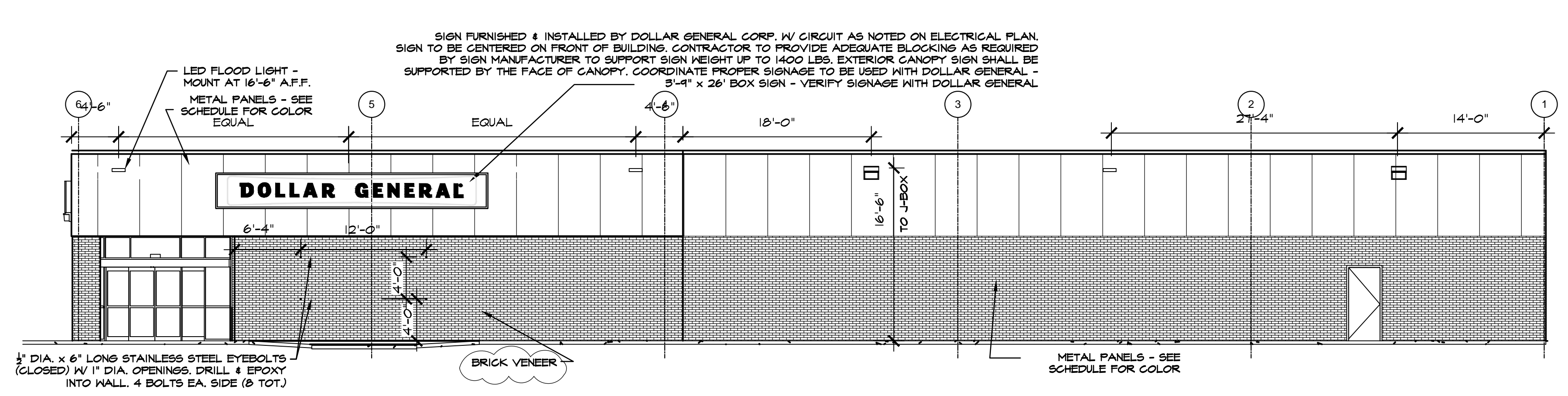
ROOM FINISH SCHEDULE											
NO	ROOM NAME	FLOOR	BASE	A WALL	B WALL	C WALL	D WALL	CEILING MATERIAL	CEILING FINISH	REMARKS	
100	BREAK RM.	CONCRETE FLOOR SEALED	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	EXPOSED TO STRUCTURE ABOVE	N/A		
101	OFFICE	CONCRETE FLOOR SEALED	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" AFF. WHITE PRO-MAR LATEX SEMI-GLOSS	EXPOSED TO STRUCTURE ABOVE	N/A		
102	SALES AREA	CONC. FLOOR POLISHED (STEPS 1-4)	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BD. ON WHITE METAL LINER PANELS. SEE ELEV. - SHF A-3	GYPSUM BD. ON WHITE METAL LINER PANELS. SEE ELEV. - SHF A-3	GYPSUM BD. ON WHITE METAL LINER PANELS. SEE ELEV. - SHF A-3	EXPOSED TO STRUCTURE ABOVE	N/A		
105	RECEIVING AREA	CONCRETE FLOOR SEALED	CONCRETE SEALER	N/A	N/A	METAL LINER PANEL FROM FLOOR TO 8' AFF.	WHITE	EXPOSED TO STRUCTURE ABOVE	N/A		
104	MEN	CONCRETE FLOOR SEALED	SHERVIN HILLIAMS ACRYLIC SILICONE BLK. GLOSS/LATE HC-IT	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	8'-0" AFF.		
105	WOMEN	CONCRETE FLOOR SEALED	SHERVIN HILLIAMS ACRYLIC SILICONE BLK. GLOSS/LATE HC-IT	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	GYPSUM BOARD TO 8'-0" AFF.	8" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	8'-0" AFF.		
107	SERVICE CLOSET	CONCRETE FLOOR SEALED	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	4" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	GYPSUM BOARD TO 8'-0" AFF.	4" HIGH FIBERGLASS-REINFORCED PANEL - WHITE	8'-0" AFF.		
106	HALL	CONC. FLOOR POLISHED (STEPS 1-4)	CONCRETE IV SEALER	4" RUBBER / VINYL BASE	GYPSUM BOARD TO 8'-0" AFF.	SHERVIN HILLIAMS PRO-MAR LATEX SEMI-GLOSS - SHF#1 BLACK MAGIC TO 4" AFF. SHF#2 WHITE ABOVE 4"	GYPSUM BOARD TO 8'-0" AFF.	SHERVIN HILLIAMS PRO-MAR LATEX SEMI-GLOSS - SHF#1 BLACK MAGIC TO 4" AFF. SHF#2 WHITE ABOVE 4"	8'-0" AFF.		

DOOR SCHEDULE				HARDWARE	REMARKS
NO.	TYPE	WIDTH	HEIGHT		
100	A	3'-0"	7'-0"	(1) STANLEY PASSAGE LOCKSET GCL250-E-626-54 - NO KEY REQ'D. (1) STANLEY DOOR CLOSER GDC311-6M4 (1) IVES HALLSTOP #402-250-260, (1/2) PAIR HINGES	SOLID CORE HOOD DOOR OR HOLLOW CORE METAL DOOR 4 FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS
101	A	3'-0"	7'-0"	(1) STANLEY STOREROOM LOCKSET GCL270-E-626-54-5C-4D - KEY #2, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) IVES HALL STOP #402-250-260, (1) TACO DOOR VENER FRASIONS, (1/2) PAIR HINGES	SOLID CORE HOOD DOOR OR HOLLOW CORE METAL DOOR 4 FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS
102	C	3'-0"	7'-0"	(1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2070-26, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) DOOR PULL AN US20, (1) DOOR SWEEPER, HEATHERSTRIPPING, (1) TORSSE-260-RIM CYLINDER, (1/2) PAIR HINGES	HOLLOW CORE METAL DOOR 4 FRAME PAINT EXTERIOR SH-TCH, VAN DYKE BROWN SEMI-GLOSS, INTERIOR SH-BLACK MAGIC, 6MM SEMI-GLOSS
105A	B	6'-0"	8'-0"	(1) BURNS HULL PLATES #540-520-260-SRFP, (2) BURNS HULL PLATES #540-520-260-SRFP, (2) STANLEY DOOR CLOSERS GDC311-6M4, (1) NOT FIRE RATED HALL, (2) PAIR HINGES	FIRE RATED DOORS, SOLID CORE HOOD DOORS OR HOLLOW CORE METAL DOORS PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS
105B	D	6'-0"	8'-0"	(1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2070-26, (1) VON DUPRIN GUARD-X DOUBLE DOOR SPRING SHOCK (1) DETEX DOUBLE DOOR HOLDER #200-250-260-260-260, (2) STANLEY DOOR CLOSERS GDC311-6M4, (1) TORSSE-260-RIM CYLINDER, (1/2) PAIR HINGES	HOLLOW CORE METAL DOORS 4 FRAME INTERIOR PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS EXTERIOR PAINTED SH-TCH-1 VAN DYKE BROWN SEMI-GLOSS
104	A	3'-0"	7'-0"	(1) STANLEY STOREROOM LOCKSET GCL270-E-626-54-5C-4D - KEY #2, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) IVES HALL STOP #402-250-260, (1) RESTROOM DOOR SIGNAGE (PER DETAIL ON SHEET A3), (1/2) PAIR HINGES	SOLID CORE HOOD DOORS OR HOLLOW CORE METAL DOORS 4 FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS
105	A	3'-0"	7'-0"	(1) STANLEY STOREROOM LOCKSET GCL270-E-626-54-5C-4D - KEY #2, (1) STANLEY DOOR CLOSER GDC311-6M4, (1) IVES HALL STOP #402-250-260, (1) RESTROOM DOOR SIGNAGE (PER DETAIL ON SHEET A3), (1/2) PAIR HINGES	SOLID CORE HOOD DOORS OR HOLLOW CORE METAL DOORS 4 FRAME PAINTED SH-BLACK MAGIC, 6MM SEMI-GLOSS
106	E	6'-0"	7'-0"	BY DOOR MANUFACTURER TO BE RE-KEYED BY DOLLAR GENERAL AREA MANAGER WITH (1) LGO RIM CYLINDER #10562-260.	14'-0" BI-FAB WITH TRANSOM AND HINDOCS, BRONZE FINISH



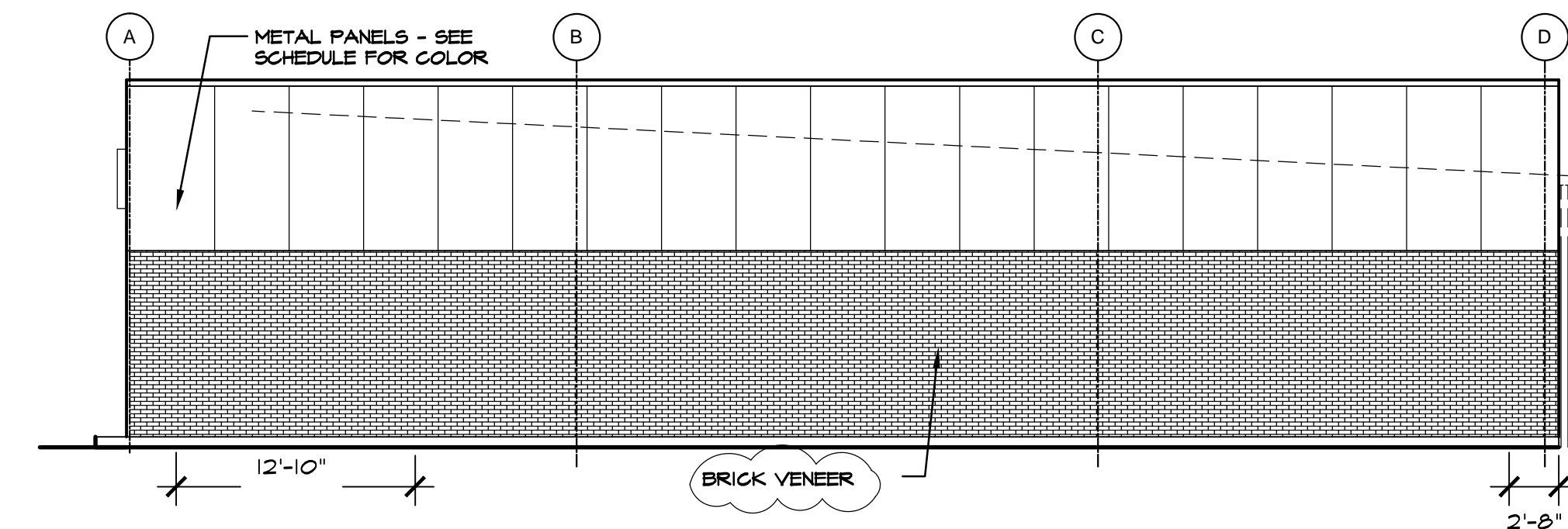
FRONT ELEVATION (MAMERS ROAD)

SCALE: 1/8" = 1'-0"



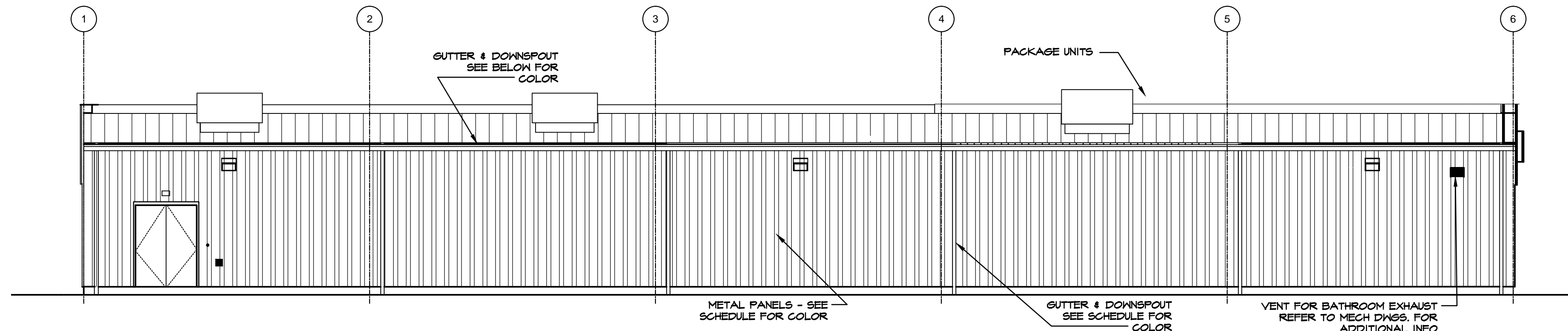
RIGHT SIDE ELEVATION (US HWY 421 N)

SCALE: 1/8" = 1'-0"



REAR ELEVATION

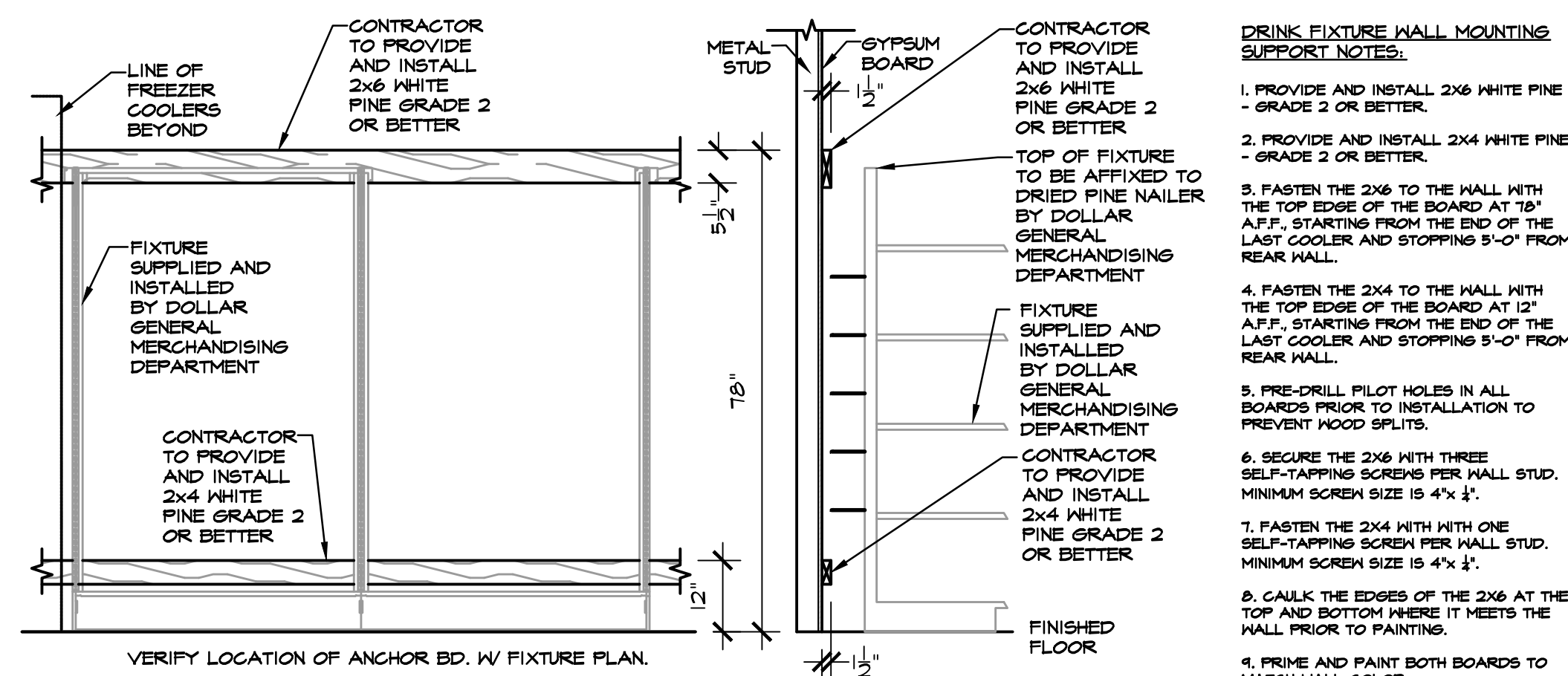
SCALE: 1/8" = 1'-0"



LEFT SIDE ELEVATION

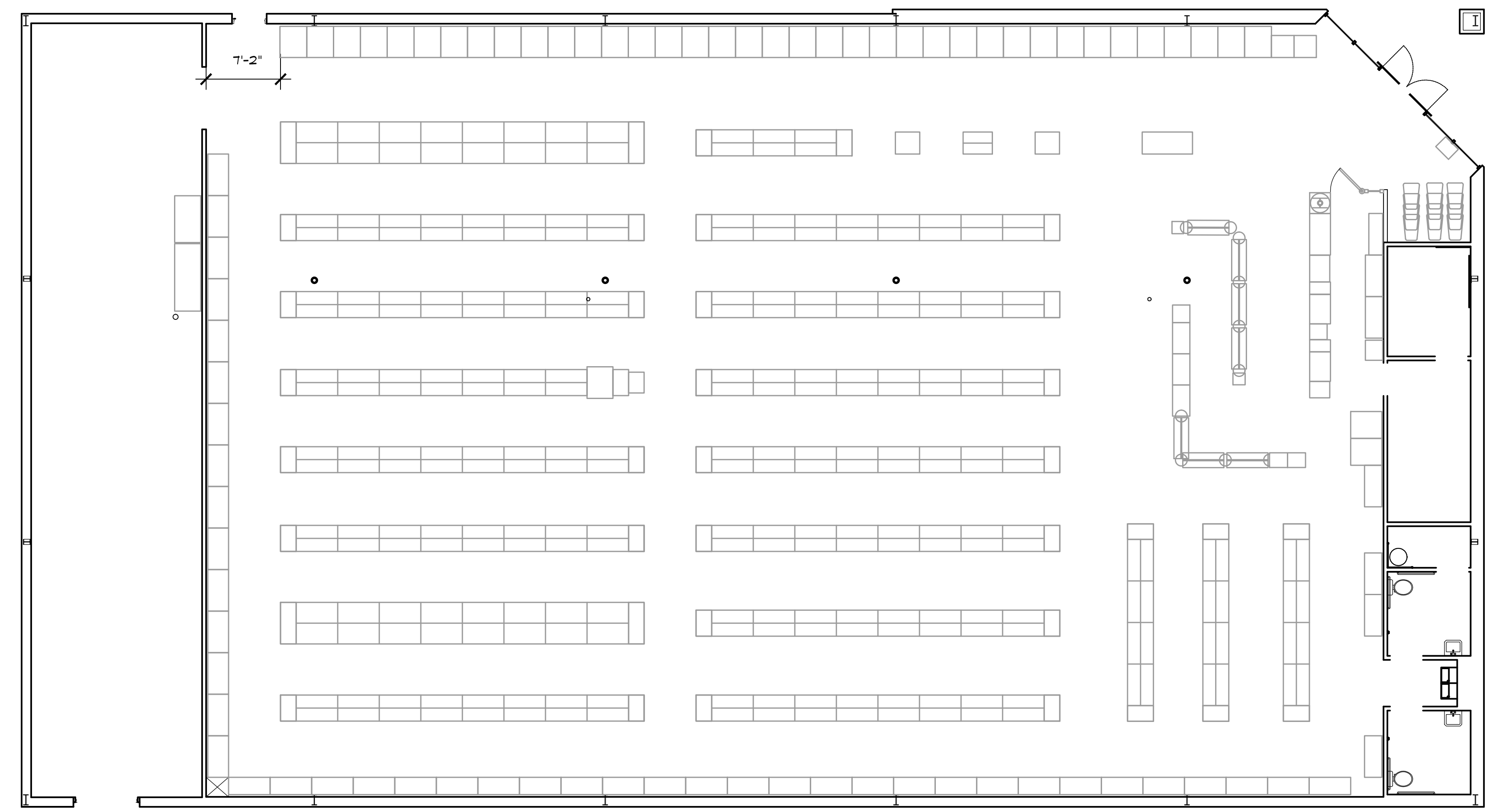
SCALE: 1/8" = 1'-0"

PRE-ENGINEERED METAL BUILDING VENDOR	VP BUILDINGS ATTN: DAVID ENGLISH (901) 748-6103	STAR BUILDING SYSTEMS ATTN: JEFF HORN (866) 664-8899	NUCOR BUILDING SYSTEMS ATTN: BOB BARRY (313) 622-4440 (260) 837-7891	BIG BEE STEEL BUILDINGS, INC. ATTN: KEVIN BUSLER (800) 633-3378	CHIEF BUILDINGS ATTN: ERIN SULLIVAN (308) 385-8228 (308) 390-8199
<b>EXTERIOR FINISHES</b>	COOL EGYPTIAN WHITE PATRIOTIAN BRONZE KYMAR 500	COOL COTTON WHITE GALVALUME LIGHTSTONE MEDIUM BRONZE KYMAR 500	BRONZE POLAR WHITE GALVALUME LIGHTSTONE MEDIUM BRONZE KYMAR 500	BRONZE POLAR WHITE GALVALUME SANDSTONE BURNISHED SLATE BRONZE POLAR WHITE GALVALUME	ANTIQUE BRONZE BRONZE POLAR WHITE GALVALUME PARSHMENT
EXTERIOR FINISHES ARE TO MATCH OR BE EQUAL TO VP METAL BUILDING SYSTEMS FINISH SELECTION.					
GUTTERS					
DOWN SPOUTS					
SIDE AND REAR METAL WALL PANELS & TRIM, RECEIVING & EMERGENCY EXIT DOORS					
BRICK VENEER					
LEE BRICK 206 SEVILLE					
FLAT METAL SOFFIT AT STOREFRONT VESTIBULE AREA					
BUILDING PARAPET WALL AND CANOPY					
STOREFRONT SYSTEM					
STANDING SEAM METAL ROOF PANELS					
LINER PANELS (INTERIOR SALES FLOOR)					



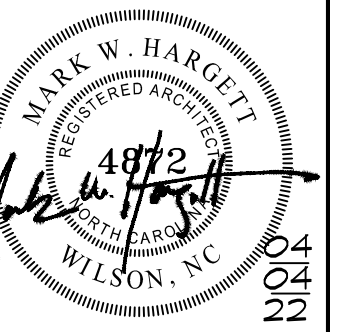
DRINK FIXTURE SUPPORT DETAIL

SCALE: 1/2" = 1'-0"



FIXTURE LAYOUT (CONFIRM W/ DOLLAR GENERAL PLANS) DGP

SCALE: 1/8" = 1'-0"



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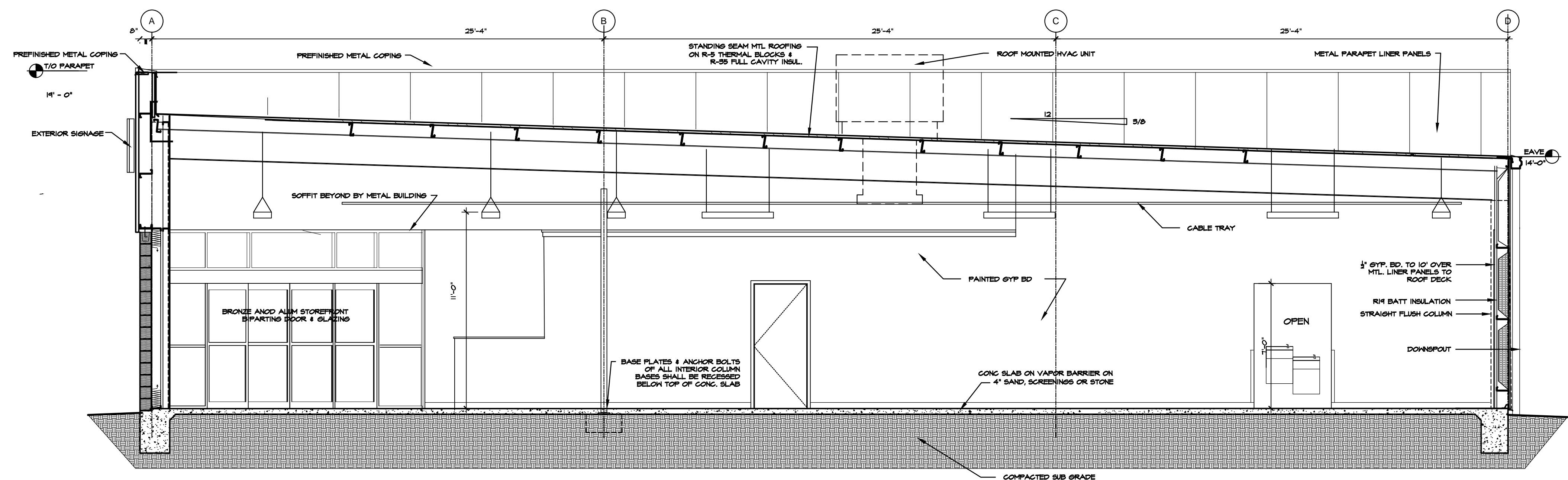
**DOLLAR GENERAL**  
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JOB NUMBER  
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 REVISIONS  
 042822-BRICK VENEER

SHEET NUMBER

**A-2**

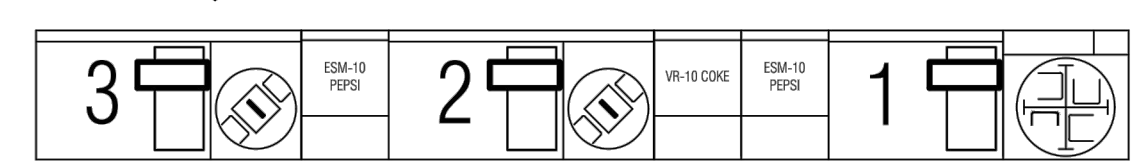
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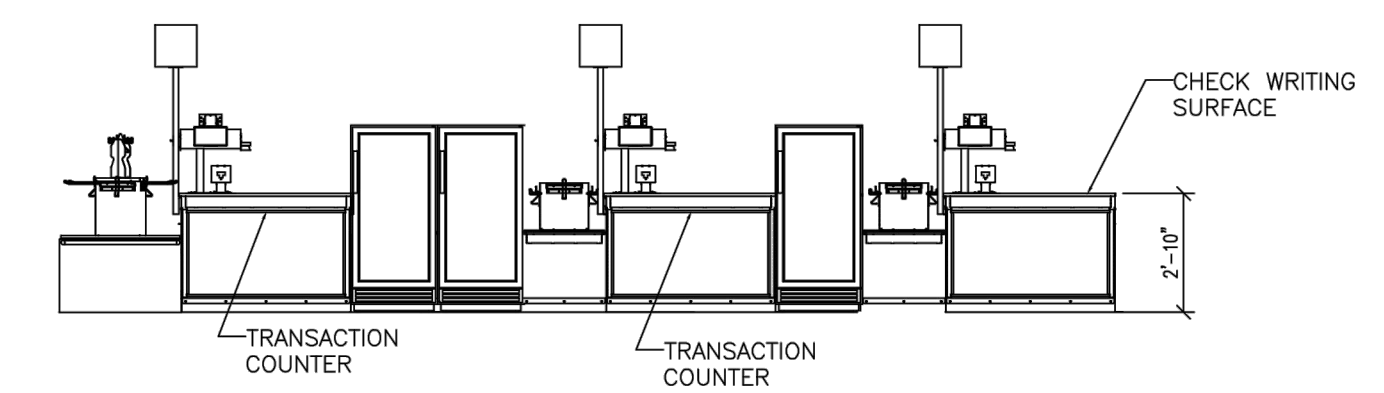
301 BUILDING SECTION

SCALE: 1/4" = 1'-0"

NOTE: FRONT CHECKOUT COUNTER TO BE PROVIDED BY DOLLAR GENERAL AND INSTALLED AT DOLLAR GENERAL'S DIRECTION. COUNTERS SHALL INCLUDE A PORTION OF AT LEAST 36" IN LENGTH WHICH IS NO MORE THAN 34" ABOVE THE FINISH FLOOR. COUNTERS SHALL BE ON AN ACCESSIBLE ROUTE.



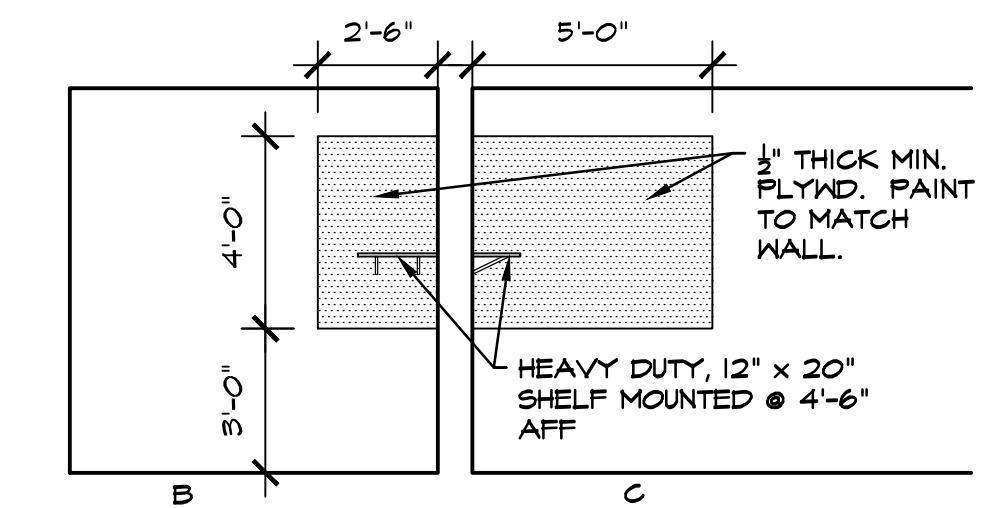
A - SERVICE COUNTER PLAN



B - ELEVATION

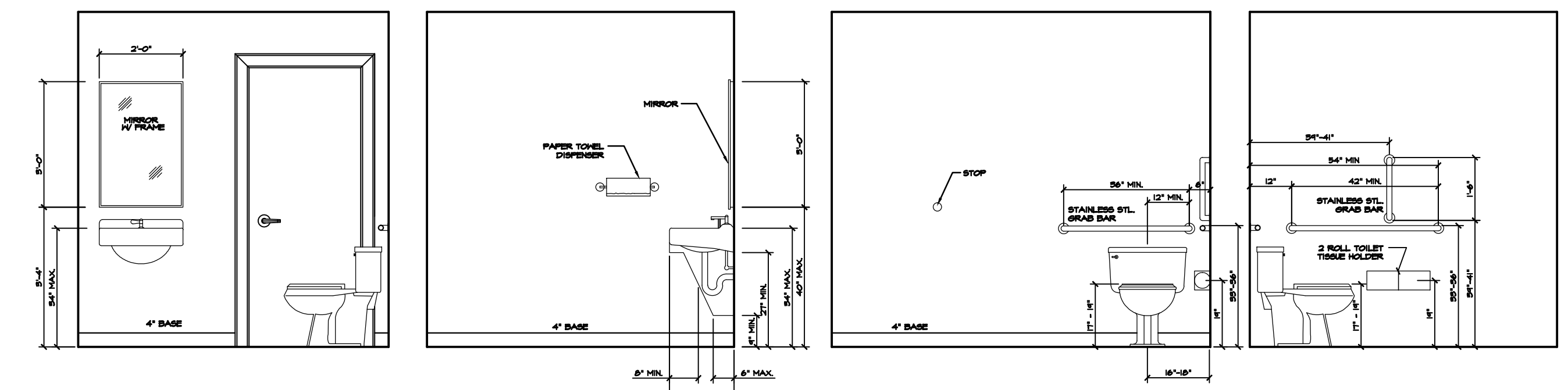
SERVICE COUNTER DETAILS

NOT TO SCALE



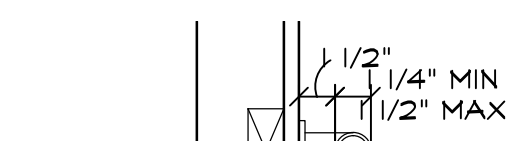
OFFICE WALL EQUIPMENT PANELS

SCALE: 1/4" = 1'-0"



RESTROOM ELEVATIONS

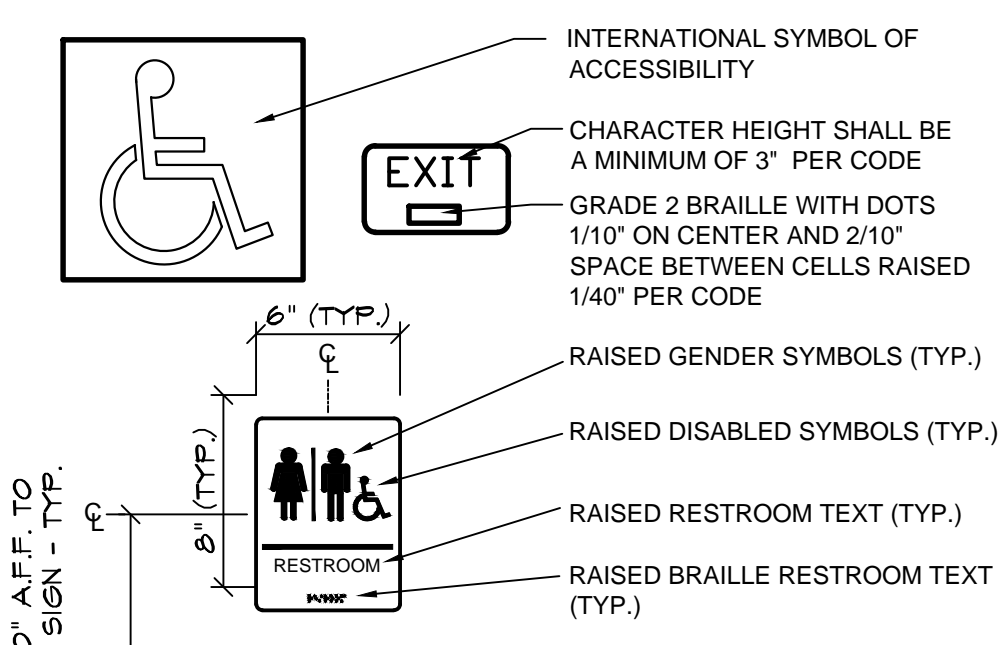
SCALE: 3/8" = 1'-0"



GRAB BAR SUPPORT BAR FASTENER & MOUNTING SUPPORT SHALL BE ABLE TO WITHSTAND 250#/FT. IN BENDING, SHEAR & TENSION. SEE ELEVATIONS FOR MOUNTING HEIGHTS.

GRAB BAR DETAIL

SCALE: 1/2" = 1'-0"



NOTES:  
 1. SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.  
 2. ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.  
 3. G.C. TO PROVIDE TACTILE 'EXIT' SIGNS AT ALL GRADE LEVEL EXIT DOORS

ACCESSIBLE SIGNAGE

SCALE: 1/2" = 1'-0"

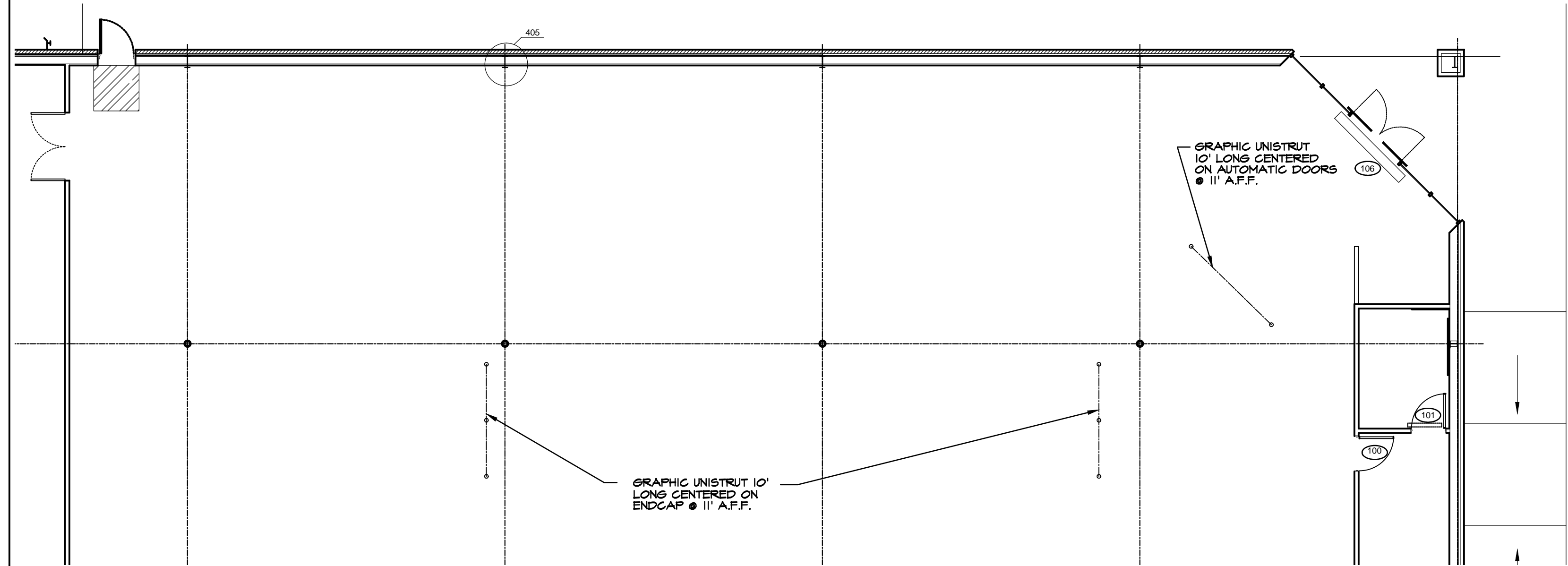
TOILET ROOM ACCESSORIES		DOOR HARDWARE	
B2740	BOBRICK DOUBLE TOILET TISSUE DISPENSER	54-US32D	BURNS PUSH PLATE
B253	BOBRICK PAPER TOWEL DISPENSER	5410-32D-26D-GRIP	BURNS PULL PLATE
A-24x36	GAMCO 24" x 36" ANGLE FRAME MIRROR	B2DDH-2250 **	DETEX DOUBLE DOOR
150Sx36	GAMCO 1 1/2" X 36" GRAB BAR	DS1000/MB	DOOR SCOPE (FORE RECEIVING EXIT DOOR)
150Sx42	GAMCO 1 1/2" X 42" GRAB BAR	608Z	8" DOOR HOLDER
150Sx18	GAMCO 1 1/2" X 18" GRAB BAR	770SAV-3FT	3 FT DOOR SWEEP
MS-1	GAMCO MOP HOLDER	770SAV-4FT	4 FT DOOR SWEEP
		W101S-DANE-626	FALCON PASSAGE LOCK SET
		W581PD-DANE-626	FALCON STOREROOM LOCKSET
		5400	HAGER DOOR CLOSER
		701SSC8-26D*	ILCO RIM CYLINDER
		402-1/2B-26D	3IVES WALL STOP
		425B26D-4	IVES 4" DOOR HOLDER
		8400-S32D-8X34	FALCON PASSAGE LOCK SET
		425 HD - 6FT	NATIONAL GUARD HD THRESHOLD (FOR RECEIVING EXIT DOOR)
		TA3310PC	TACO DOOR VIEWER
		2670-28	VON DUPRIN GUARD-X EXIT ALARM LOCK
		2609 **	VON DUPRIN GUARD-XDOUBLE DOOR STRIKE
		892SAV-84INCH	WEATHERSTRIPPING

TOILET ROOM NOTES:

- ALL TOILET ROOM ACCESSORIES PROVIDED BY BASS SECURITY. REFER TO T01 FOR VENDOR CONTACT.
- ALL STORES MUST INCLUDE 2 REST ROOMS, EVEN WHEN NOT REQUIRED BY CODE. ANY VARIATION MUST BE APPROVED, IN WRITING, BY THE DOLLAR GENERAL CONSTRUCTION DEPARTMENT.
- RESTROOMS MUST COMPLY WITH ALL BUILDING (FEDERAL, STATE, AND LOCAL) FIRE, AND HEALTH DEPARTMENT CODES. ADA REQUIREMENTS MUST ALSO BE MET IN BOTH RESTROOMS. SOME CODES MAY REQUIRE ADDITIONAL TOILETS OR LAVATORIES. PLEASE CONTACT DOLLAR GENERAL CONSTRUCTION DEPARTMENT FOR ALTERNATE PLANS FOR THESE SITUATIONS.
- PROVIDE AND INSTALL 2'x3' MIRROR (OR LARGER IF REQUIRED BY CODE).
- CONTRACTOR TO INSTALL SOAP DISPENSERS, TOILET PAPER HOLDERS, DOOR CLOSER, EXHAUST FANS, AND ALL BASS SECURITY PARTS IN BOTH RESTROOMS. PROVIDE SOLID BLOCKING IN WALL FOR SUPPORT.

DOOR HARDWARE NOTES:

- ALL DOOR HARDWARE PROVIDED BY BASS SECURITY. REFER TO T01 FOR VENDOR CONTACT.



UNI-STRUT LAYOUT FOR SIGNAGE

SCALE: 1/8" = 1'-0"



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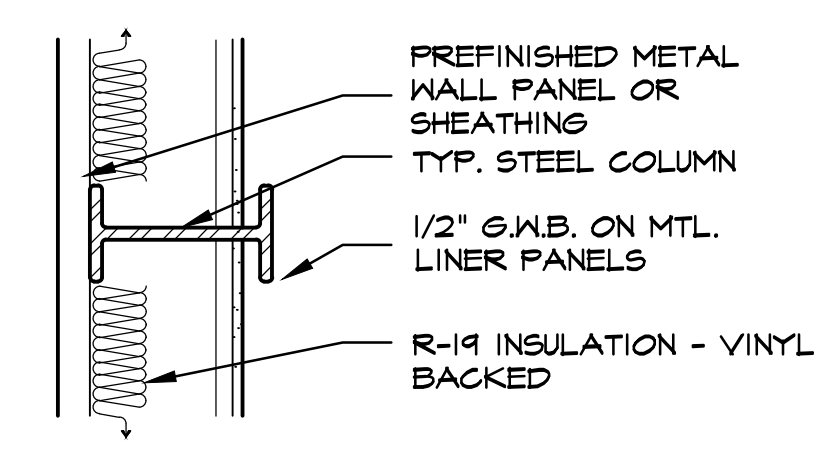
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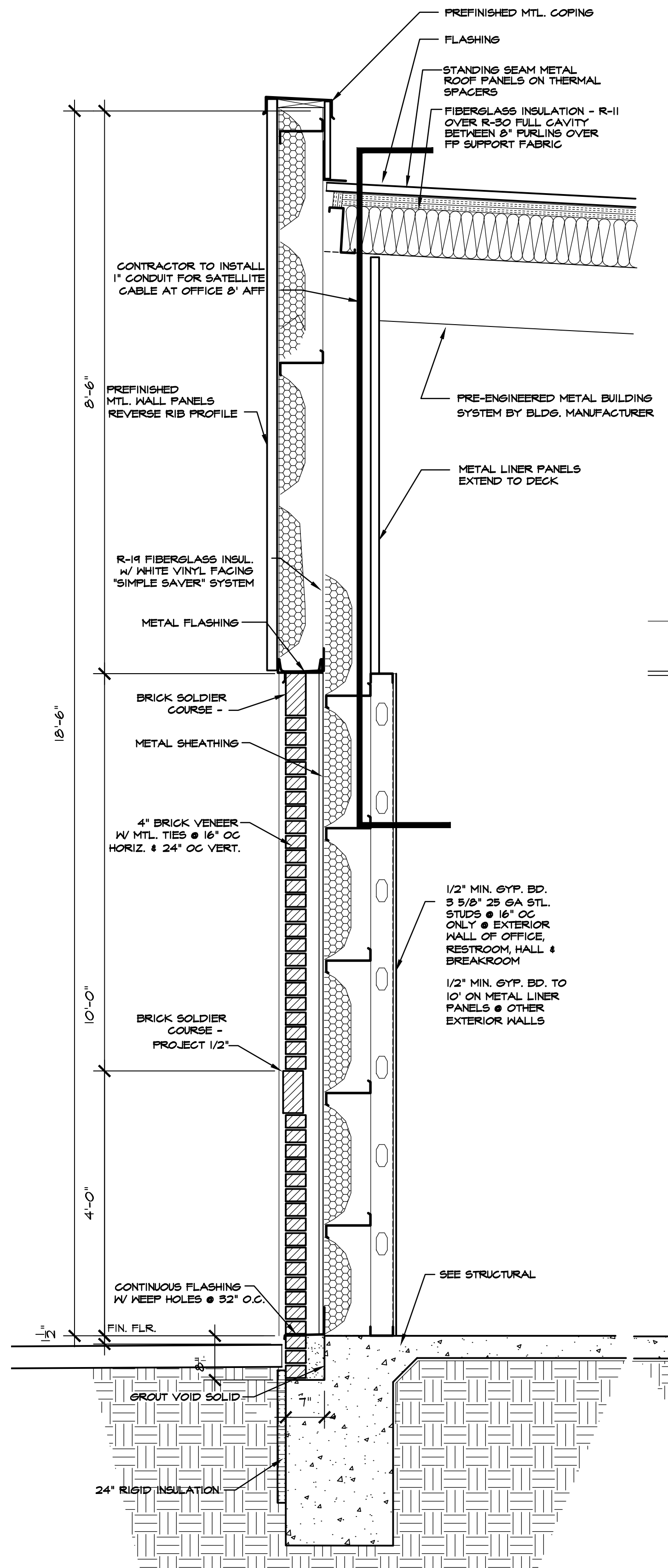
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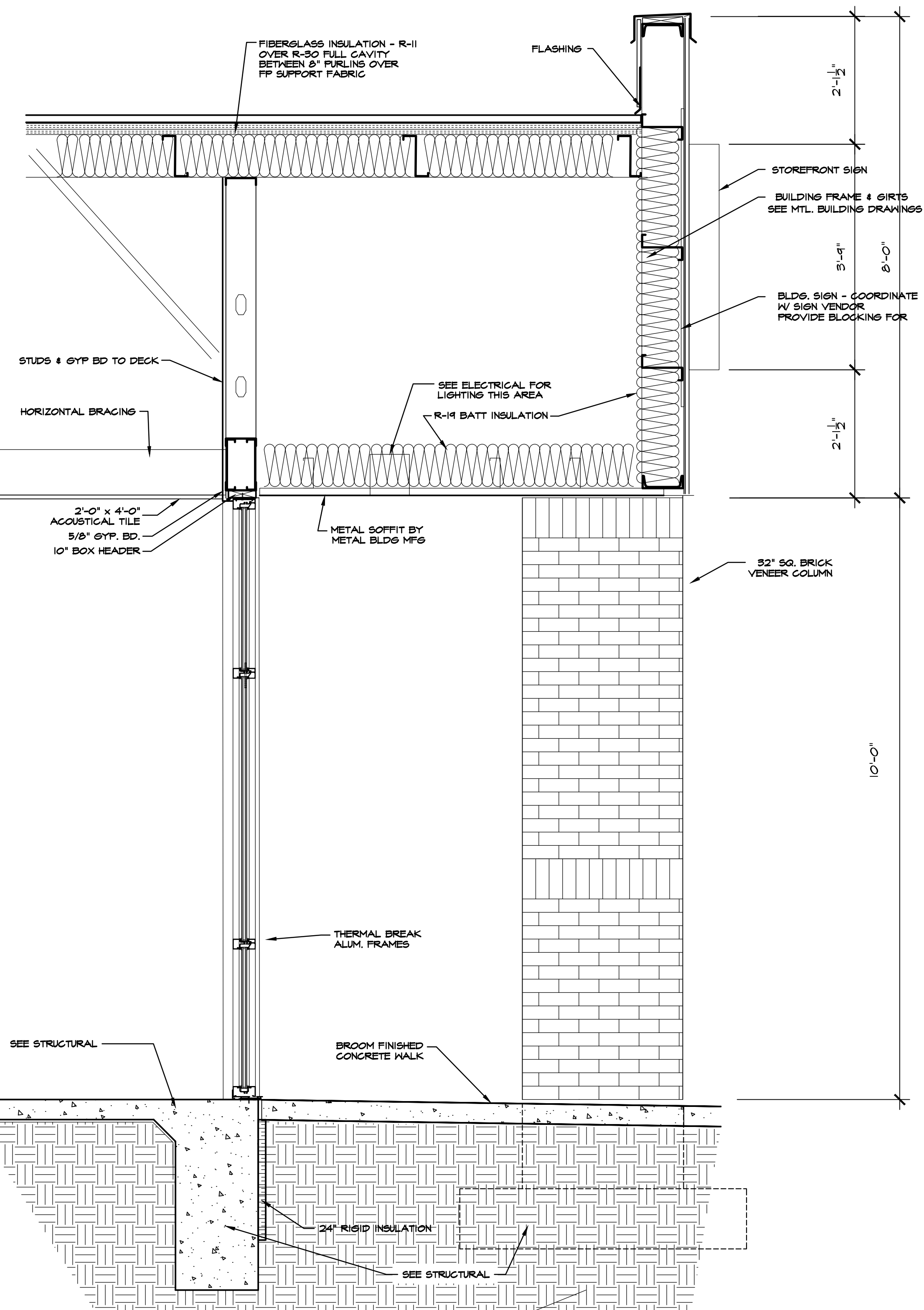
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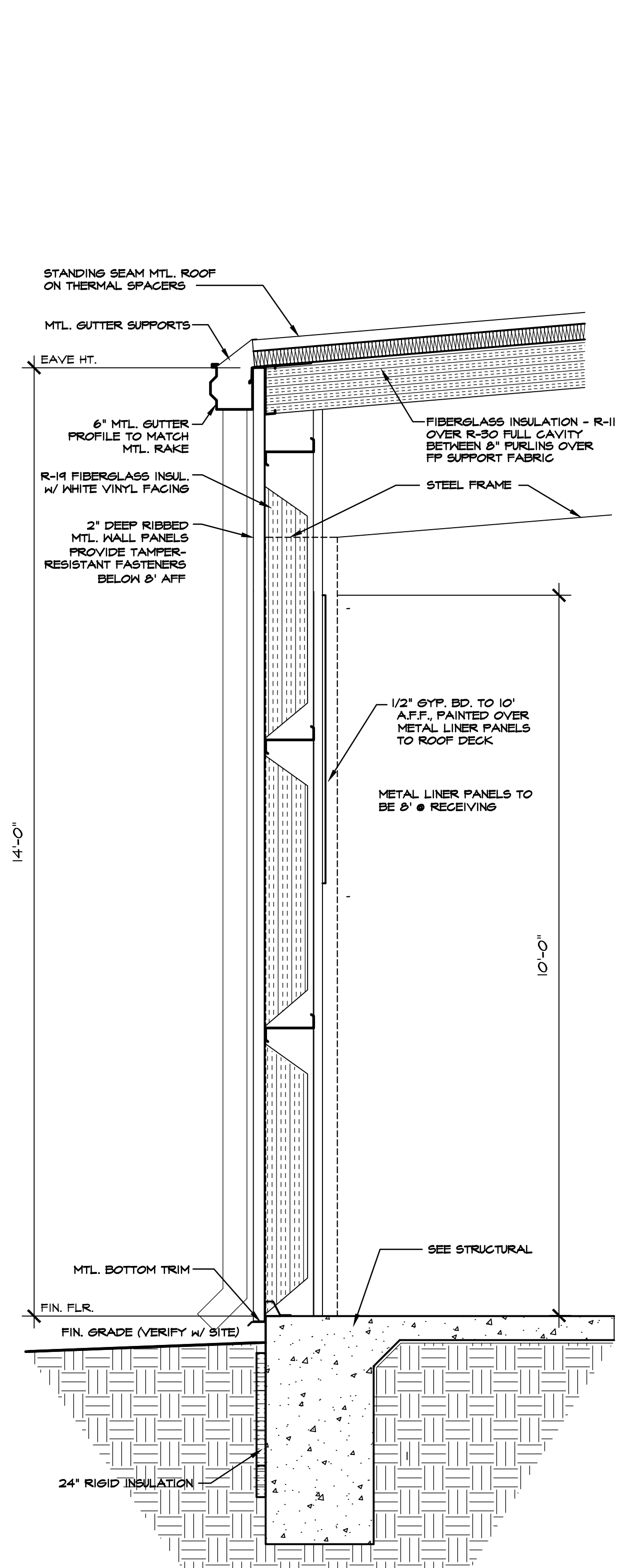
**405 DETAIL @ COLUMN**  
 SCALE: 1" = 1'-0"



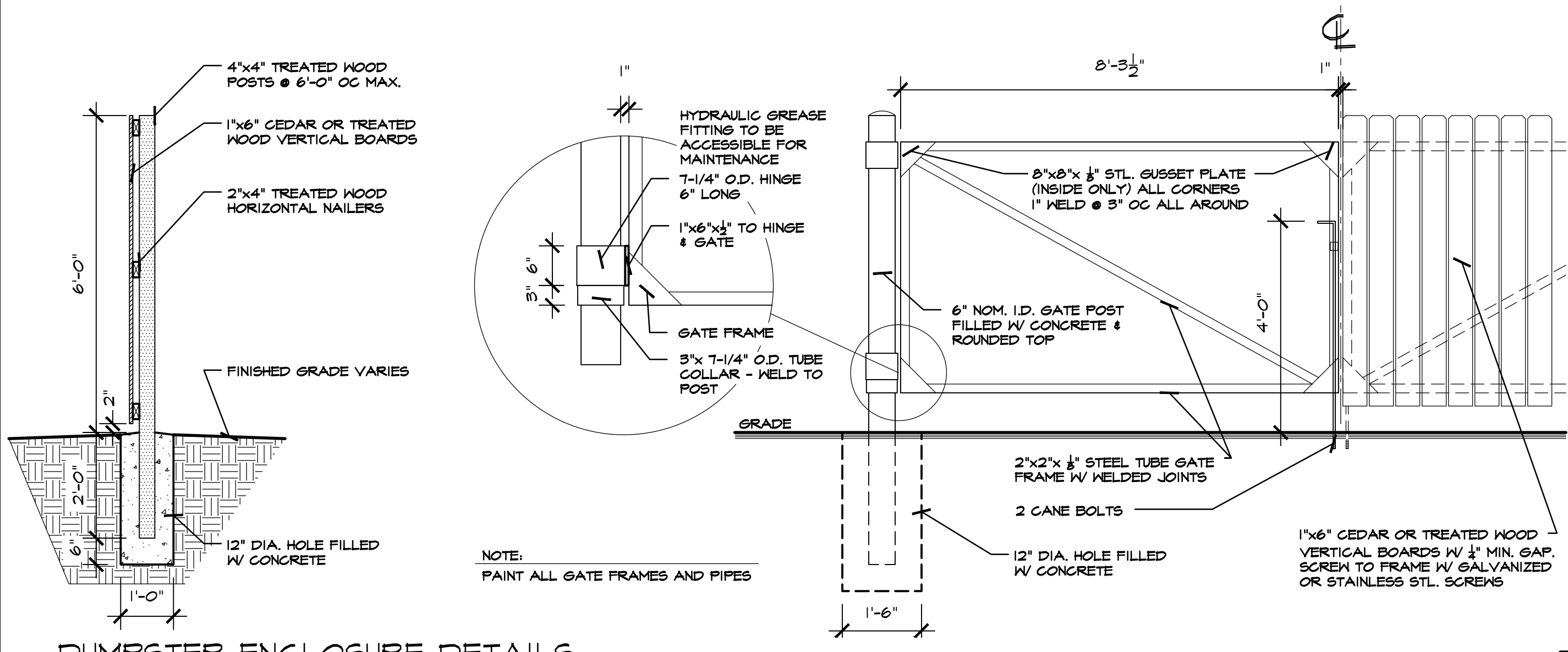
**401 WALL SECTION @ FRONT WALL**  
 SCALE: 3/4" = 1'-0"



**402 WALL SECTION @ ENTRY**  
 SCALE: 3/4" = 1'-0"

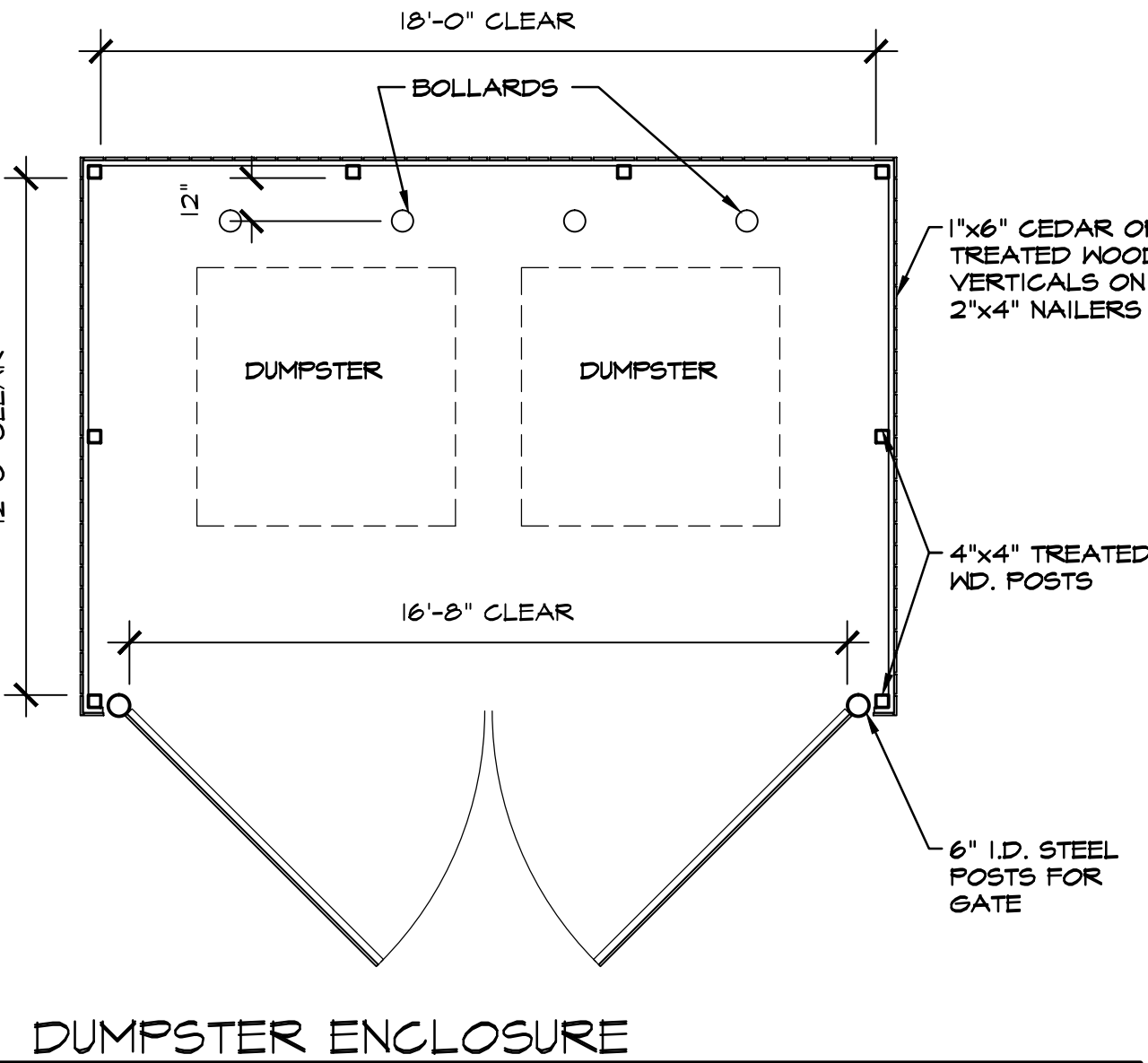


**403 WALL SECTION REAR WALL**  
 SCALE: 3/4" = 1'-0"



DUMPSTER ENCLOSURE DETAILS

SCALE: 1/2" = 1'-0"



DUMPSTER ENCLOSURE

SCALE: 1/4" = 1'-0"

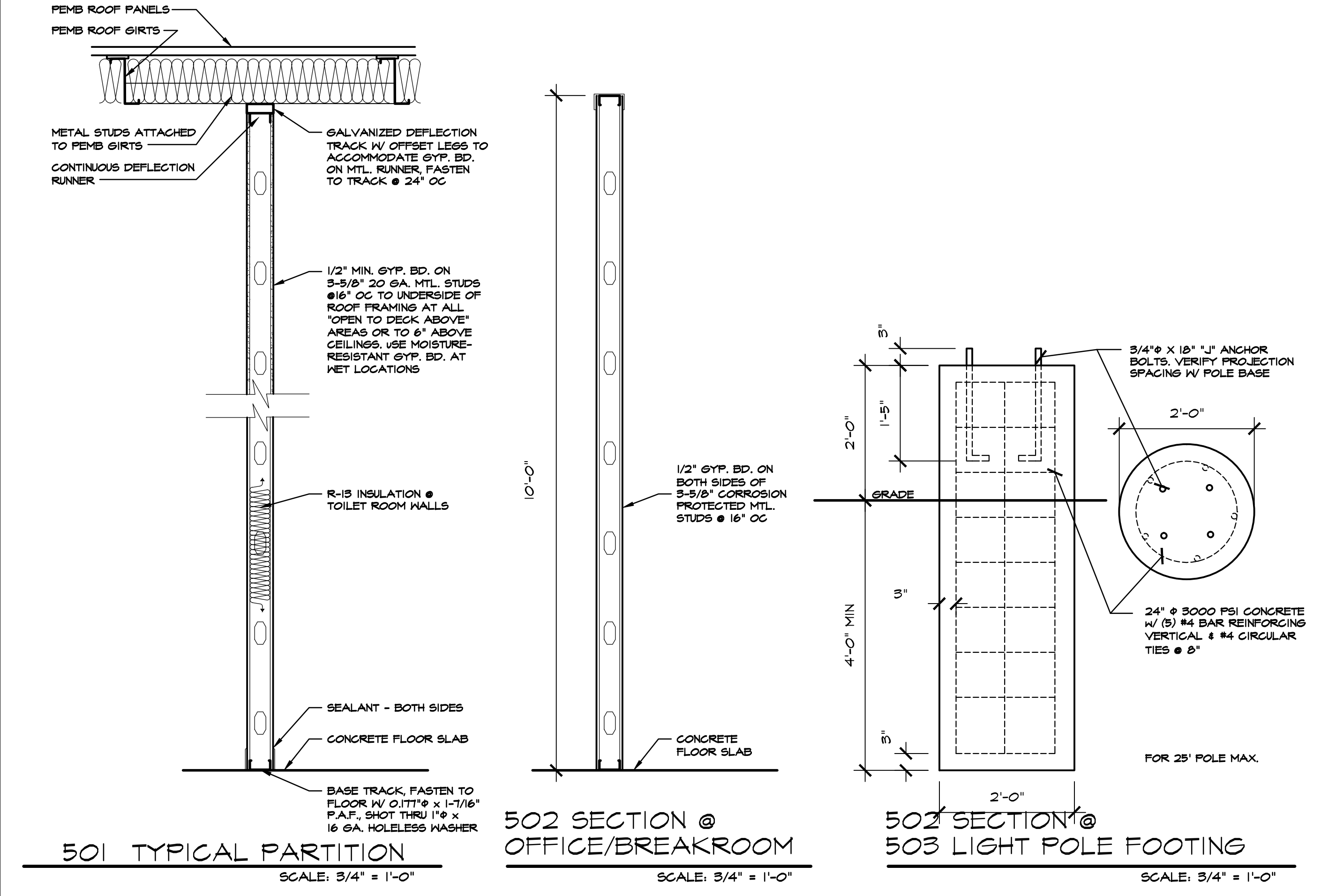
REQUIRED NATIONAL ACCOUNT VENDORS:

COMPANY	CONTACTS	PHONE #	REQUIRED ITEMS
RAINBIRD IRRIGATION	LOCAL RAINBIRD DISTRIBUTOR	www.rainbird.com	IRRIGATION SYSTEMS
EUCRID CHEMICAL COMPANY	PHIL BRANDT	877-456-5626 800-641-6746 pbrandt@eucridchemical.com	CONCRETE POLISHING SYSTEMS
RETROPLATE SYSTEMS	SCOTT MAXFIELD	800-828-2880 smaxfield@retroplate.com	CONCRETE POLISHING SYSTEMS
ASSA ABLBY ENTRANCE SYSTEMS	ROSS MERKEL	604-528-2880 dollargeneralbesam@assaabloy.com	AUTOMATIC DOORS AND STORE FRONT GLAZING SYSTEM
COOK & BOARDMAN GROUP	JOE HARRELL	336-857-0675 national@cookandboardman.com	INTERIOR DOORS & FRAMES & RESTROOM ACCESSORIES
SHERIN WILLIAMS	LOCAL SHERIN WILLIAMS STORE		PAINT, PRIMER, CONCRETE SEALER AND BLOCK FILLER
MC GUE CORPORATION	KEVIN ONEAL	618-442-4026 koneal@mcgucorp.com	TRIM KIT, BUMPER GUARDS, CART STOP
LENEX	SCOTT MACDONALD	972-447-6181 dollargeneral@lenex.com	HVAC UNITS
ROOF CURB SYSTEMS	GLIFTON REASOR	800-663-3848 dollargeneral@roofcurb.com	RTU CURB
CURBS PLUS INC.	ALLAN THRAIKILL	888-694-2872 allan.thraikill@curbs-plus.com	RTU CURB
KCC INTERNATIONAL INC.	GREG CONRAD	800-382-2872 gconrad@kccurbs.com	RTU CURB
NESCO	CHRIS TRACY	800-244-6480 dollargeneral@needelectric.com	ELECTRICAL SWITCH GEAR
LEDS	MICHAEL STRINGER KYLE KNAPP	420-415-4010 dollargeneral@leds-lit.com	ELECTRICAL LIGHTING SUPPLIES
D&P CUSTOM LIGHTING	NATIONAL ACCOUNT SALES	800-251-2200	CUSTOM POWER POLES
ASD	CHRIS RUDNITSKI	828-624-1046 rudnitki@asd-usa.com	LOW VOLTAGE & VOICE/DATA
GRAYBAR	JEROME BANNISTER	615-745-3202 ext. 615-424-2155 call dollargeneral@graybar.com	CABLE TRAY
EMERSON CLIMATE TECHNOLOGIES	http://dollargeneralbid.aet.com	USER NAME: dollargeneralbid PASSWORD: dollargeneralbid	HVAC SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL HPS PANEL. REQUIRES STORE # CITY STATE ZIP CODE & CITY OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING.
STANLEY CONVERGENT SECURITY SOLUTIONS	DAN GOLDSMITH	740-862-2051	INTERIOR FIRE ALARM PANELS

REQUIRED NATIONAL ACCOUNTS FOR ENGINEERING & CONSTRUCTION MATERIAL TESTING

COMPANY	CONTACTS	PHONE #	REQUIRED ITEMS
ATC ASSOCIATES, INC.	LESLIE GREENWOOD	208-759-8775 dollargeneral@atcassociates.com	www.atcassociates.com
BUILDING AND EARTH SCIENCES, INC.	MATT ADAMS	208-636-6500 dollargeneral@buildingandearth.com	www.buildingandearth.com
EAS PROFESSIONALS, INC.	JERRY MARRONE	891-234-7565 dollargeneral@eas-pro.com	www.eas-pro.com
PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)	TERESA HEINER	710-424-6200 #8050 teresa.heiner@psia.com	www.psi.com
TERRACON	JOHN MEADOW	710-625-0755 #555 dollargeneral@terracon.com	www.terracon.com

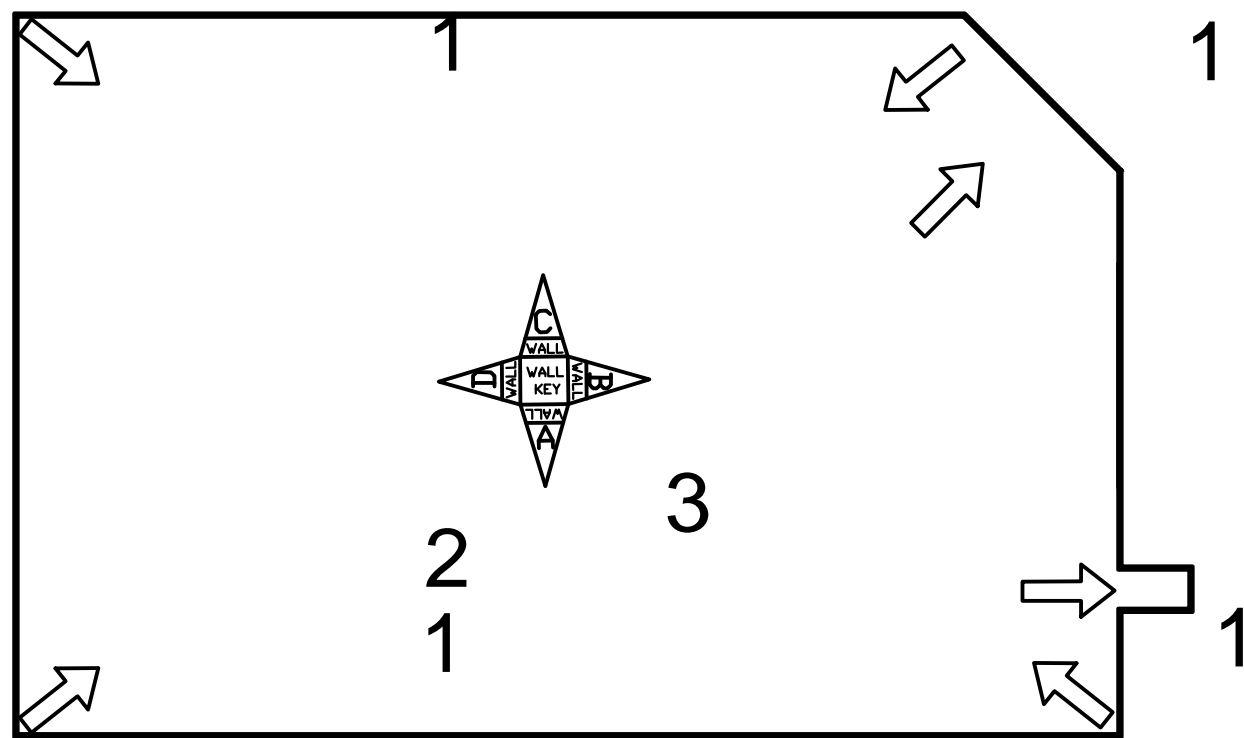
NATIONAL ACCOUNT & CONTACT INFORMATION SUBJECT TO CHANGE



501 TYPICAL PARTITION  
SCALE: 3/4" = 1'-0"

502 SECTION @ OFFICE/BREAKROOM  
SCALE: 3/4" = 1'-0"

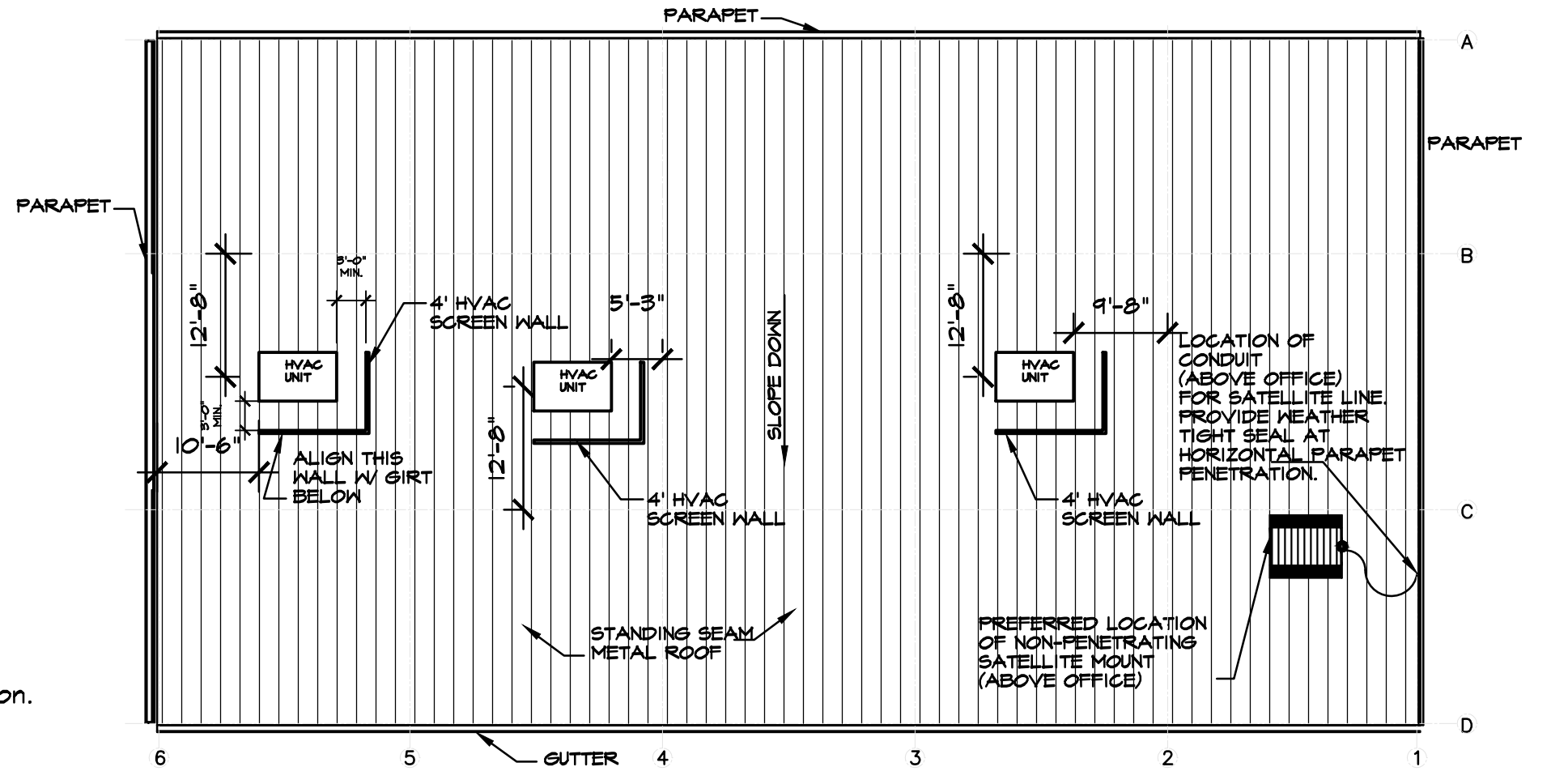
503 SECTION @ LIGHT POLE FOOTING  
SCALE: 3/4" = 1'-0"



REQUIRED PHOTOS  
The following layout shows the required photos to be taken at completion. (make sure the overhead lights are on for your photos)

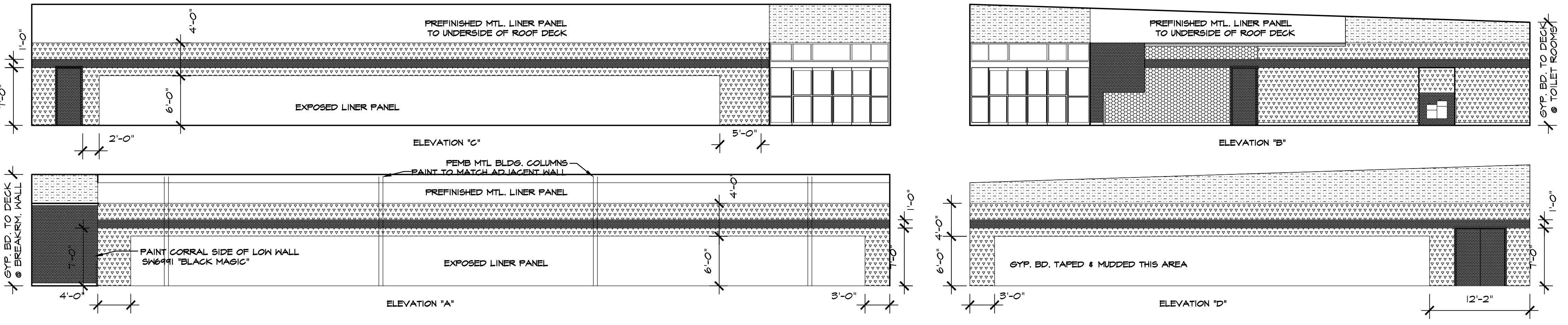
1. From each corner of the stockroom, facing the opposite corner.
2. Hall (in side entrance stores, one picture from each end of the hall)
3. Standing 10' from the entrance facing the entrance.

ELEVATION/PHOTO KEY PLAN



ROOF PLAN

SCALE: 1/16" = 1'-0"



PAINTING DIAGRAM

- EXPOSED MTL. LINER PANEL
- SW7065 'ARGOS' - SALES FLOOR
- SW6910 'DAISY' YELLOW
- SW6991 'BLACK MAGIC' - OPEN CART CORRAL
- SW7005 'PURE WHITE'



ISSUED FROM:  
WILMINGTON OFFICE  
805 North Fourth Street  
Wilmington, NC 28401  
Phone: 910.251.8899  
Facsimile: 910.251.9889  
WILSON OFFICE  
1000 West 10th Street  
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**DOLLAR GENERAL**  
STORE # 23680  
MAMERS ROAD  
LILLINGTON, NORTH CAROLINA

JOB NUMBER  
DRAWN BY: MAH  
DATE: 04/04/22  
REVISIONS

SHEET NUMBER  
**A-5**  
OF



# FOUNDATION NOTES

- FOUNDATION DESIGN BASED ON ASSUMED SOIL BEARING PRESSURE OF 2000 PSF.
- MINIMUM COMPRESSIVE STRENGTH  $f'_c$  OF CONCRETE TO BE 4000 PSI.
- STEEL REINFORCEMENT BARS TO BE AG 15, GRADE 60. REINFORCEMENT BARS TO BE SUPPORTED BY CHAIRS OR SPACERS. CONCRETE BLOCK OR BRICKS SHALL NOT BE USED AS SPACERS. WELDED WIRE FABRIC (MESH) SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS (ROLLS NOT PERMITTED). SUPPORT WIRE FABRIC WITH CHAIRS OR LIFTS DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB. CONCRETE BLOCK OR BRICKS SHALL NOT BE USED AS SPACERS. MINIMUM SHALL BE AS FOLLOWS:
  - A. SLABS.....3/4"
  - B. ALL CONCRETE CAST AGAINST EARTH.....3"
- ANCHOR RODS SHALL HAVE WITH HEAVY HEX NUTS AND WASHERS (SEE DETAIL). ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNLESS OTHERWISE NOTED. SEE MANUFACTURER'S DRAWING FOR ANCHOR BOLT SIZE AND LOCATION.
- PERIMETER INSULATION, WHEN REQUIRED SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES.
- A 6 MIL POLYETHYLENE VAPOR RETARDER SHALL BE INSTALLED BELOW SLAB.
- BOTTOM OF FOOTING SHALL BE 1'2" BELOW FINISHED GRADE MINIMUM.
- ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE NORTH CAROLINA BUILDING CODE, 2018 EDITION.
- FOUNDATION IS DESIGNED FOR ANCHOR ROD REACTIONS AS SHOWN ON SCHULTE BUILDING SYSTEMS, JOB NO. 179835 (FRED F. RADFAR, P.E.)

# STRUCTURAL DESIGN

## DESIGN LOADS

<b>Importance Factors:</b>	Wind	(I <sub>w</sub> )	—
	Snow	(I <sub>s</sub> )	—
	Seismic	(I <sub>s</sub> )	—
<b>Live Loads:</b>	Roof	20	psf
	Mezzanine	100	psf
	Floor	100	psf
<b>Snow Loads:</b>		10	psf
<b>Wind Loads:</b>	Basic Wind Speed	115	mph ASCE-7)
	Exposure Category	C	

SEISMIC DESIGN CATEGORY:  A  B  C  D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5)  I  II  III  IV

Seismic Use Group  1  2  3  4

Spectral Response Acceleration S<sub>v</sub> 20.0%g S<sub>d</sub> 7.3%g

Site Classification (ASCE 7)  A  B  C  D  E  F

Data Source:  Field Test  Presumptive  Historical Data

Basic structural system (check one)

- Bearing Wall
- Building Frame
- Moment Frame
- Dual w/Special Moment Steel
- Dual w/Intermediate R/C or Special Steel
- Inverted Pendulum

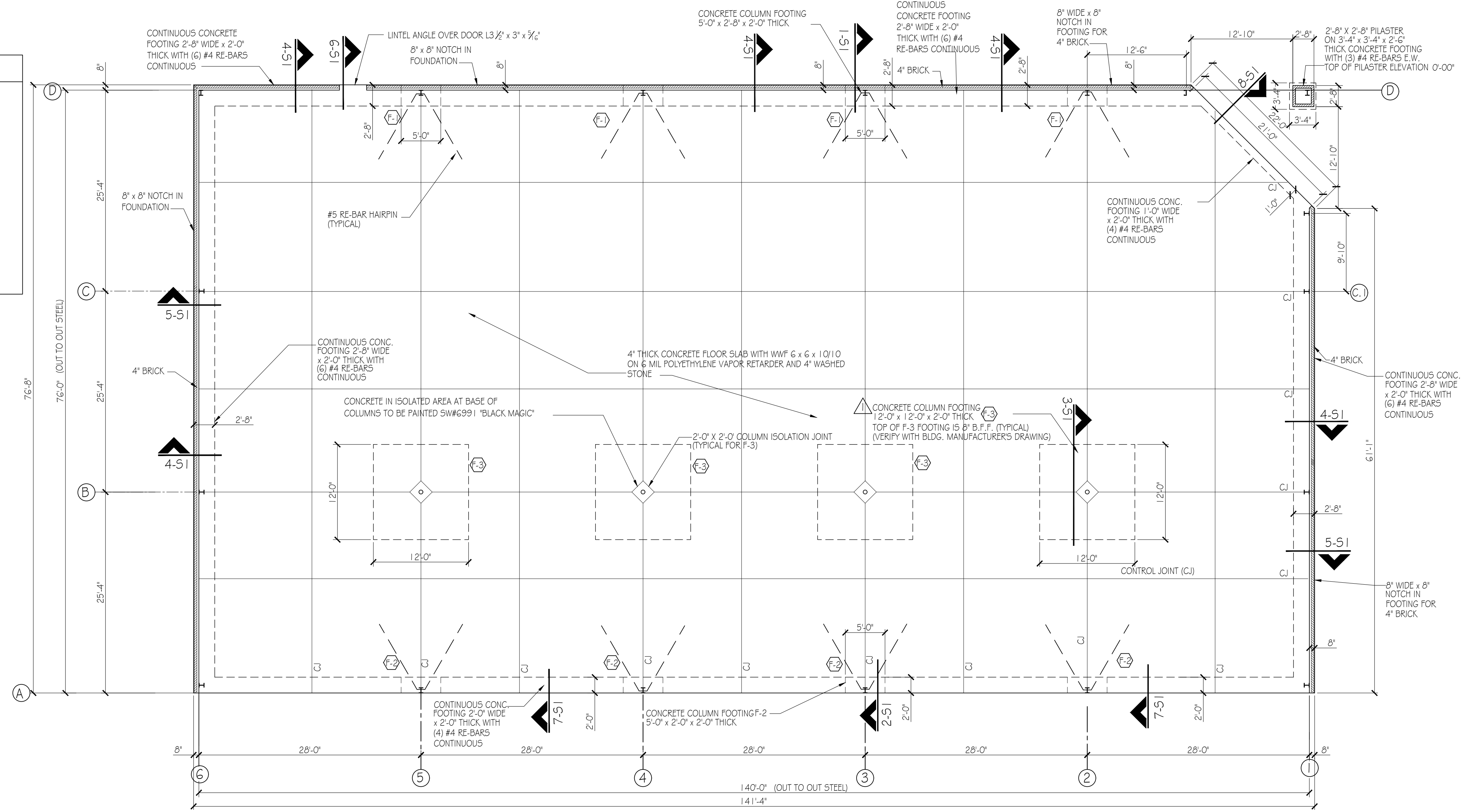
Analysis Procedure  Simplified  Equivalent Lateral Force  Dynamic

Architectural, Mechanical, Components anchored?  Yes  No

LATERAL DESIGN CONTROL:  Earthquake  Wind

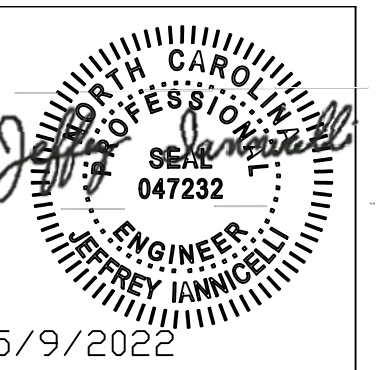
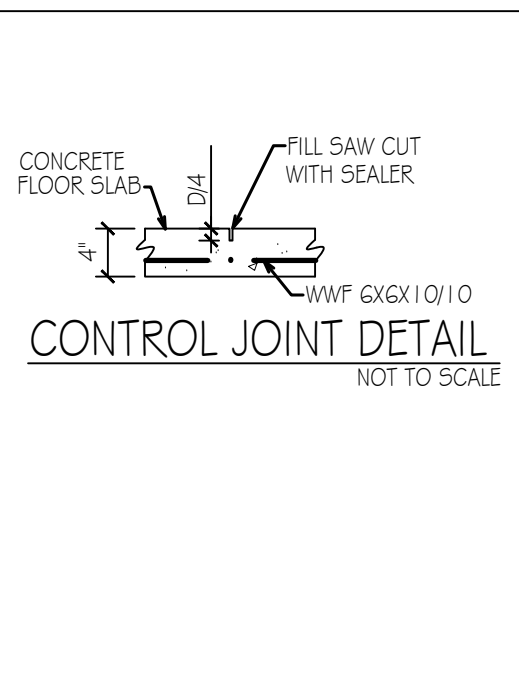
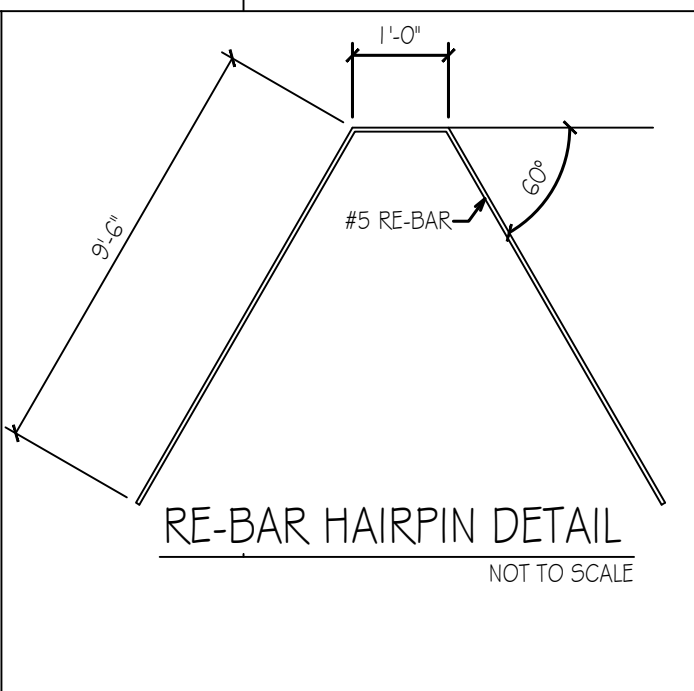
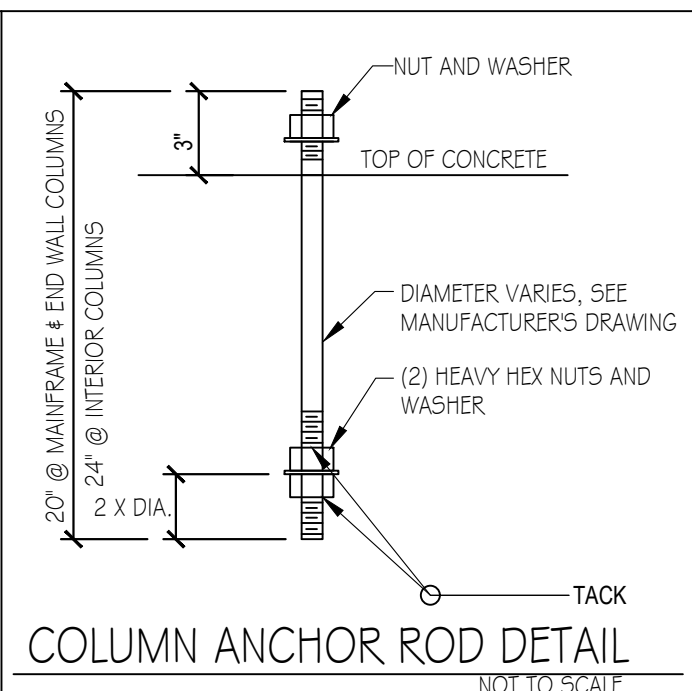
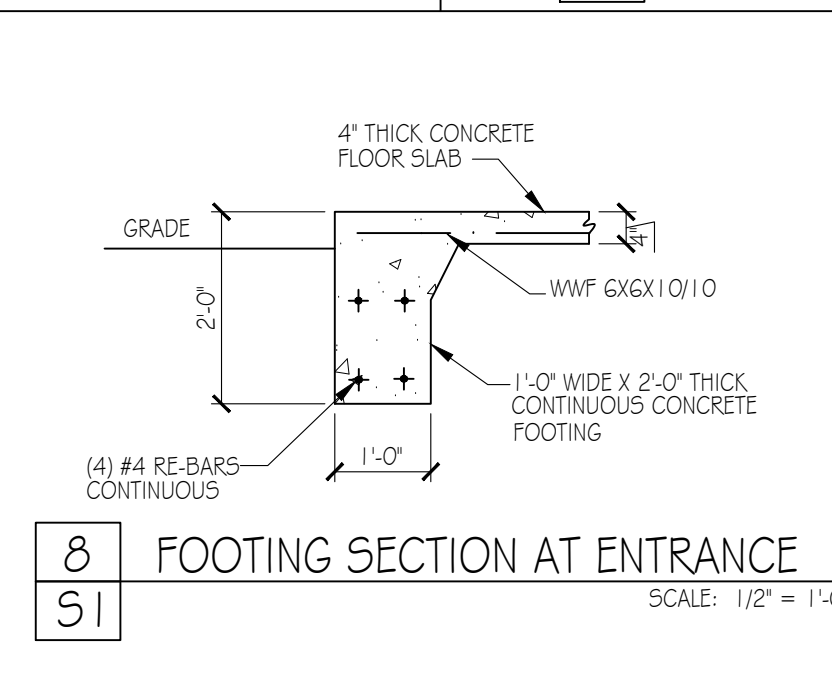
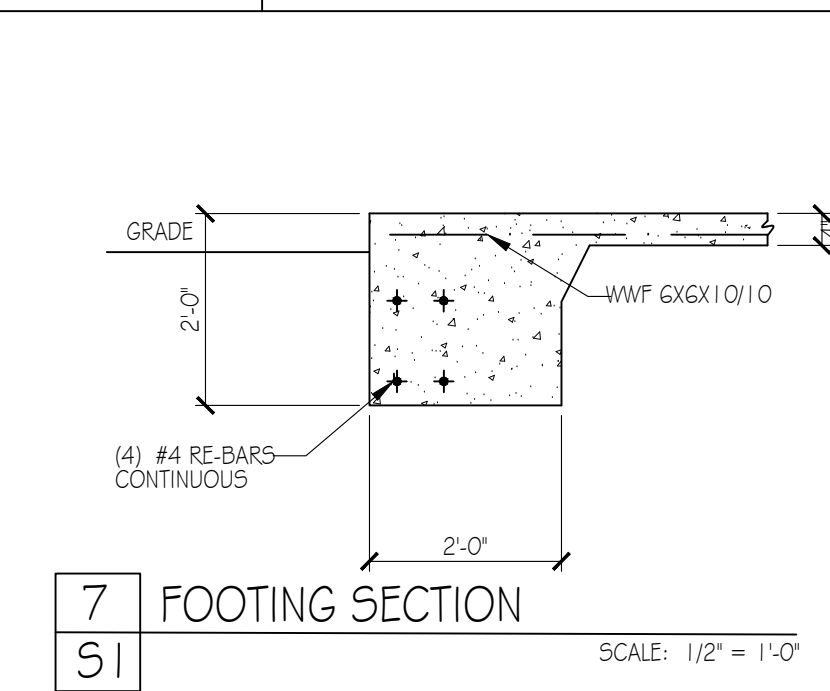
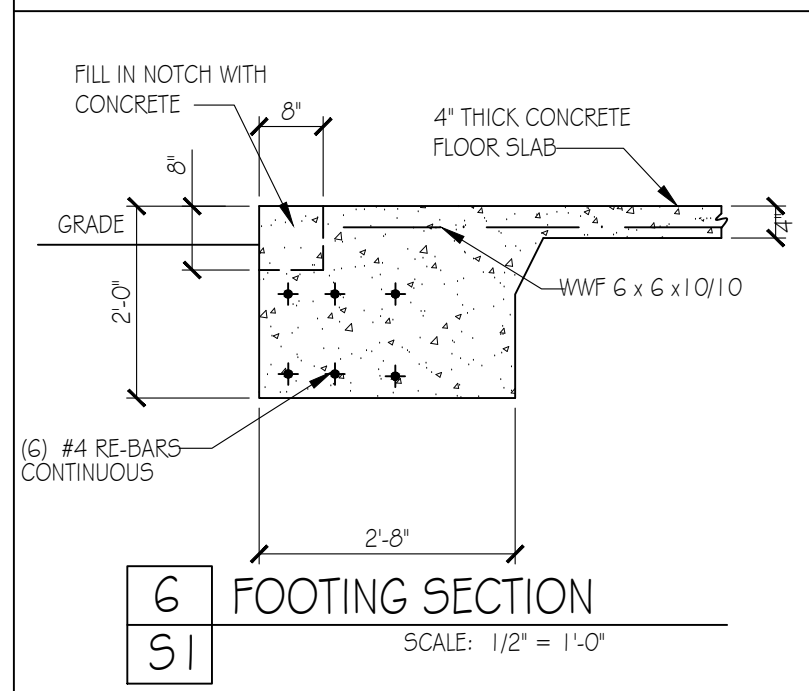
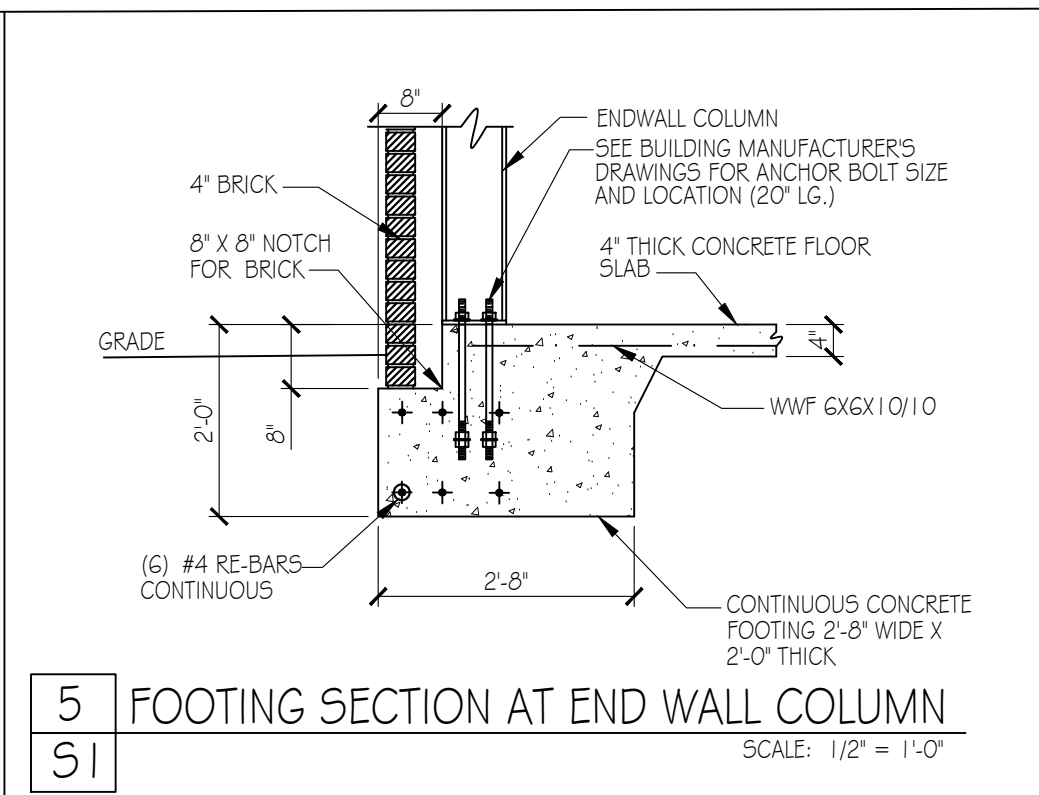
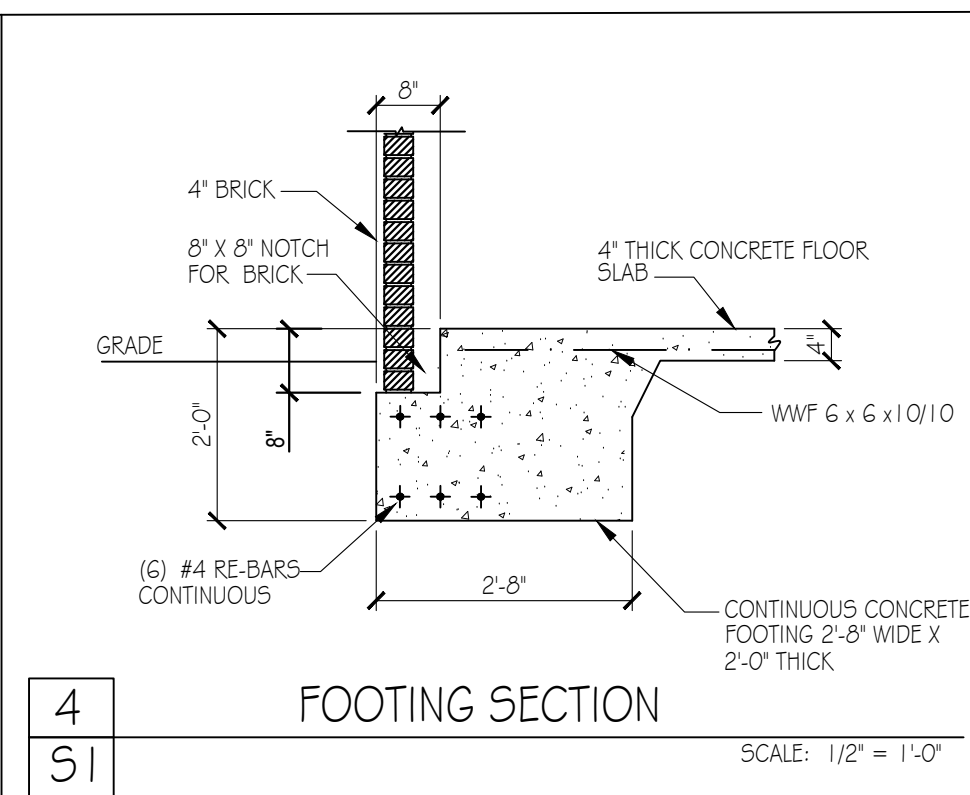
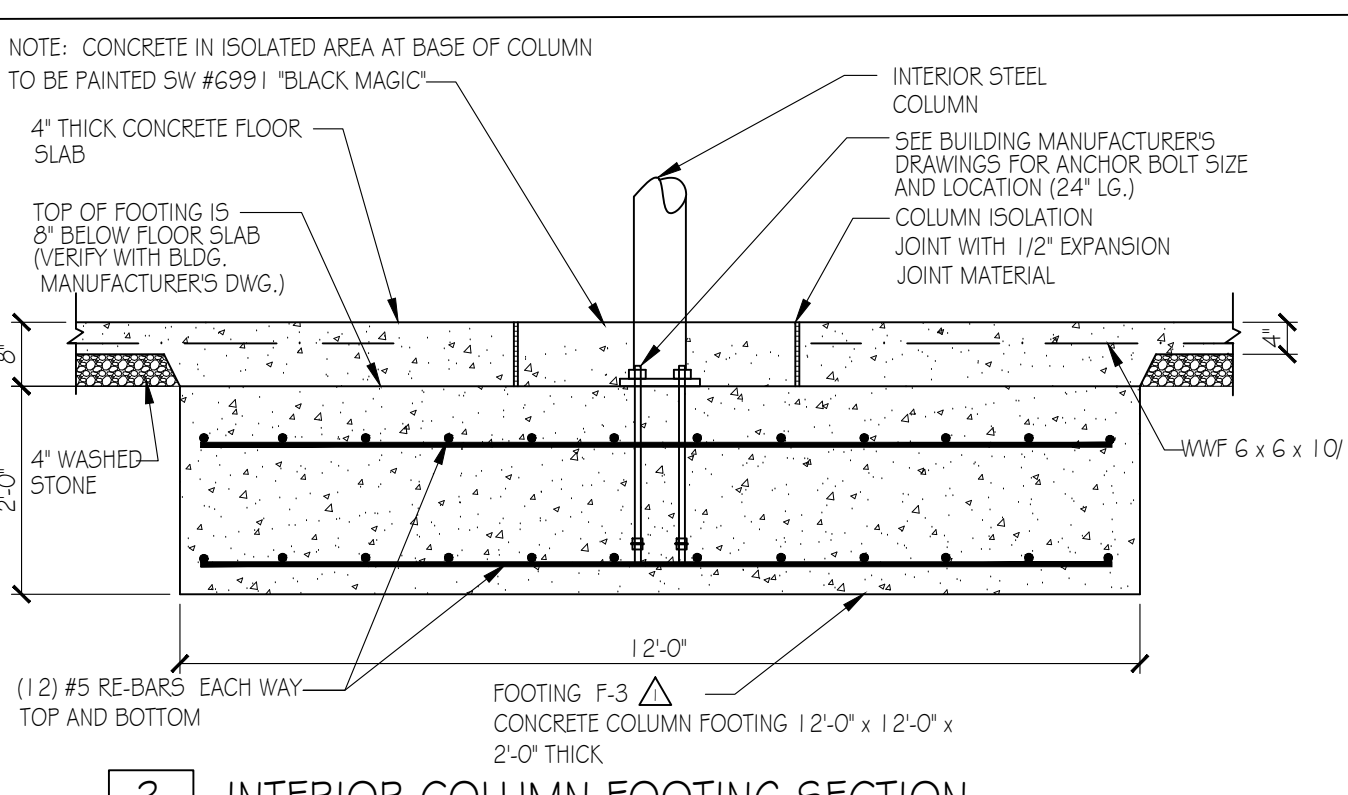
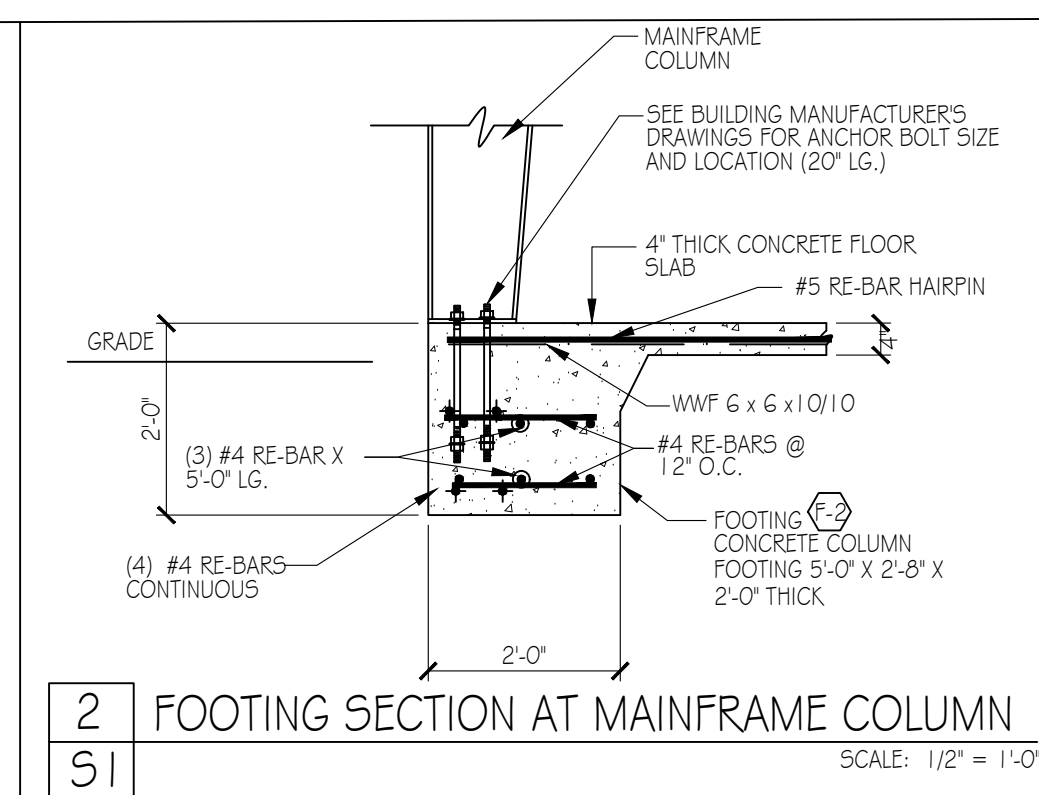
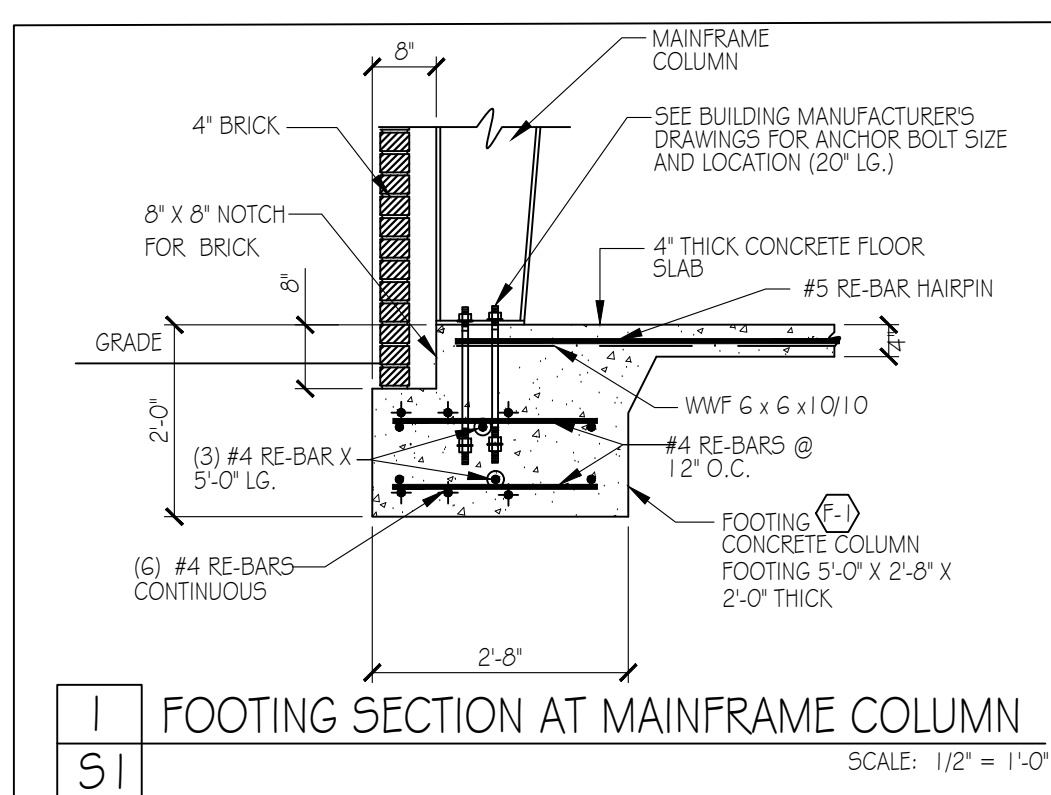
SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) \_\_\_\_\_ psf  
 Presumptive Bearing capacity 3000 psf  
 File size, type, and capacity \_\_\_\_\_



# FOUNDATION PLAN

NOTE: COORDINATE COLUMN LOCATIONS WITH BUILDING MANUFACTURER'S PLAN SCALE: 1/8" = 1'-0"



ISSUED FROM:  
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 Phone: 910.251.8899  
 Fax: 910.251.9889  
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 ENGINEERING  
 903 WIDEWATERS PARKWAY  
 KNOXVILLE, TN 37923  
 Phone: 615.253.7390

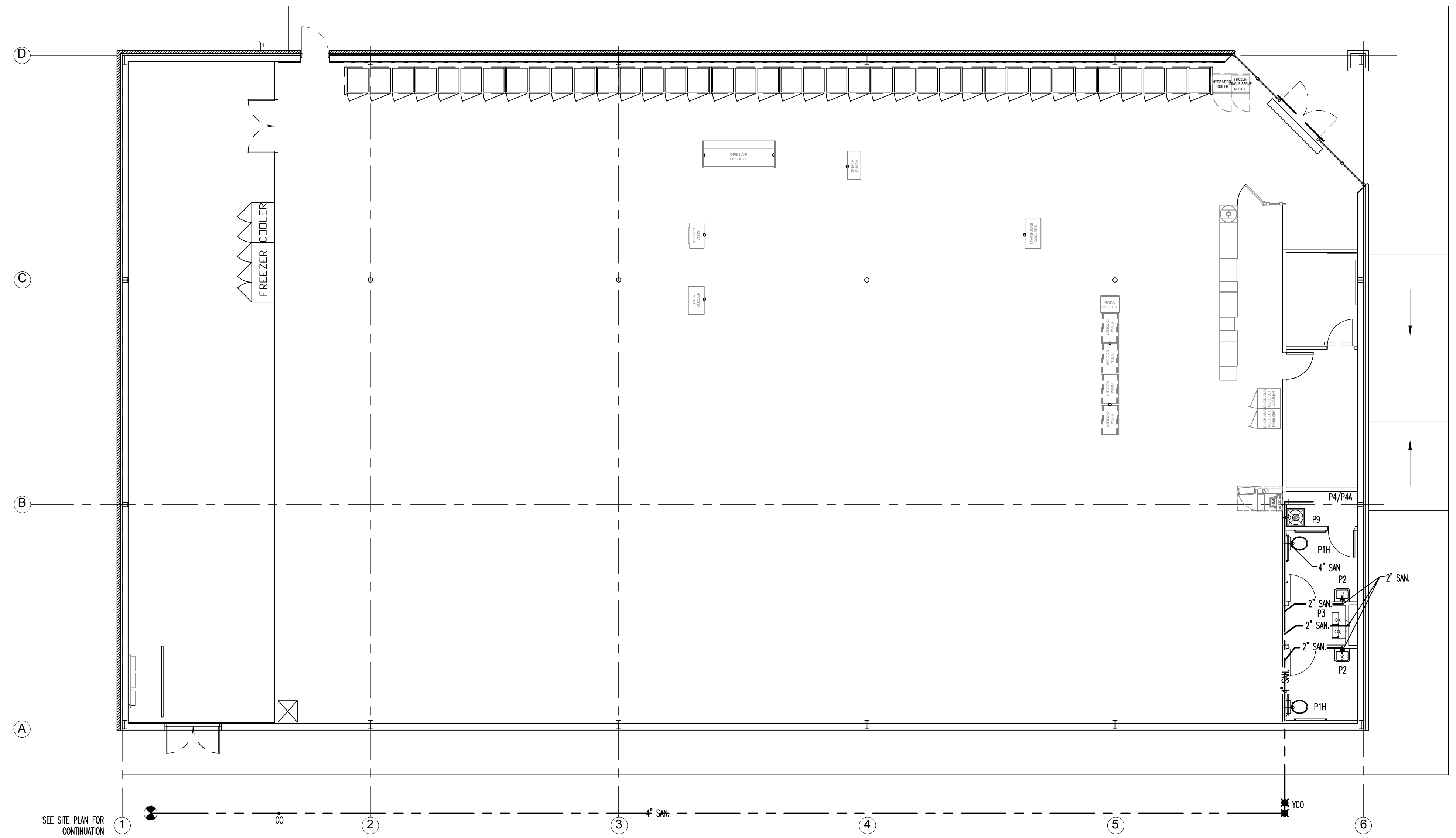
**DOLLAR GENERAL**  
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 MAMERS ROAD  
 LILLINGTON, NORTH CAROLINA

JOB NUMBER 22084  
 DRAWN BY WTG  
 DATE APR. 14, 2022  
 REVISIONS Rev 2

SHEET NUMBER **S-1**  
 OF ONE

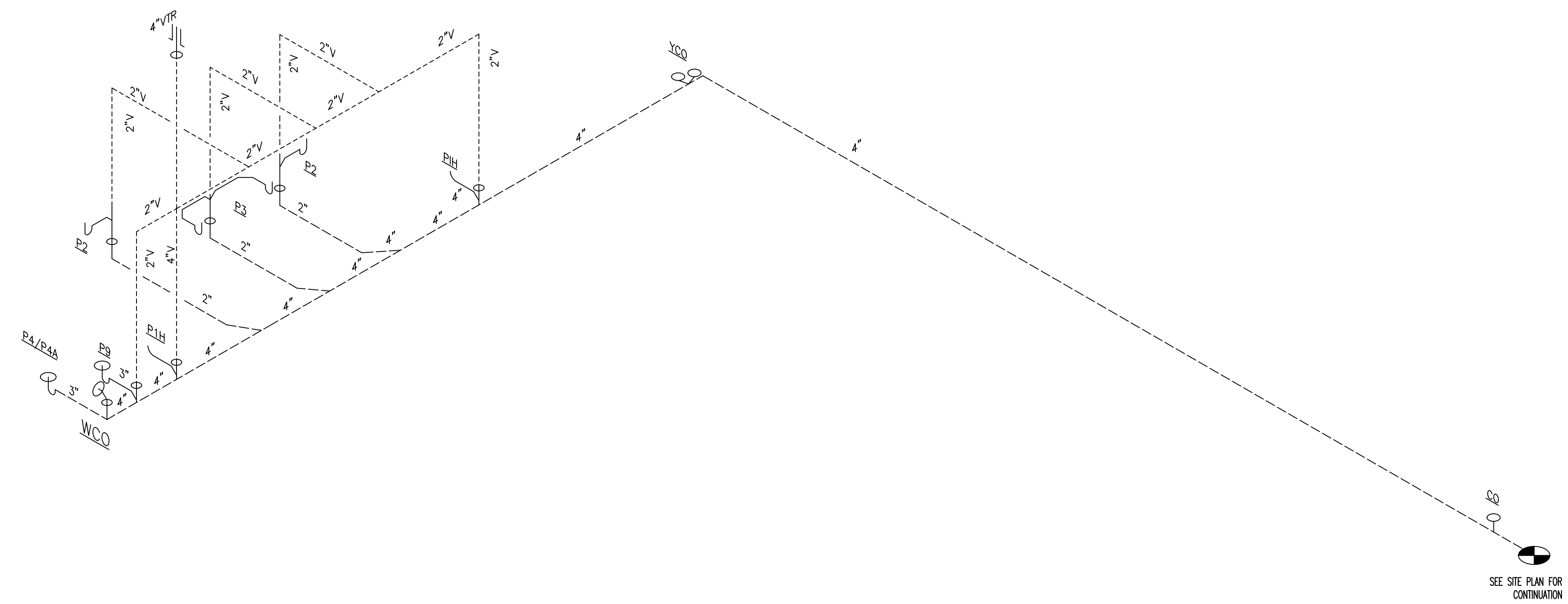






PLUMBING PLAN - SCALE: 1/8"=1' 1

- PLUMBING KEYED NOTES**
- ① WATER HEATER MOUNTED ABOVE MOP SINK. ROUTE DRAIN PAN DRAIN AND T&P RELIEF VALVE DRAIN FROM WATER HEATER DOWN WALL TO MOP SINK BASIN AND SPILL INTO.
  - ② ROUTE RTU CONDENSATE LINE TO SPILL INDIRECTLY TO MOP SINK. PITCH PIPE WITH ROOF SLOPE (TYP.).

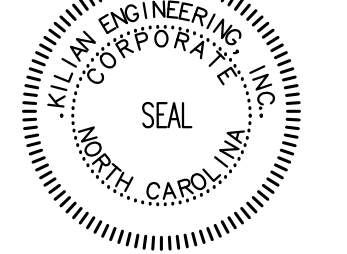
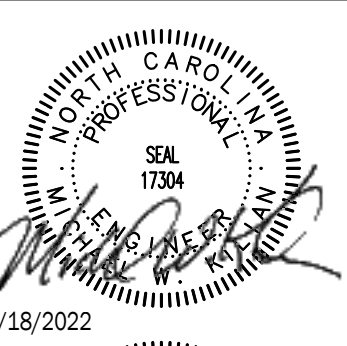


DWV RISER - NO SCALE 2

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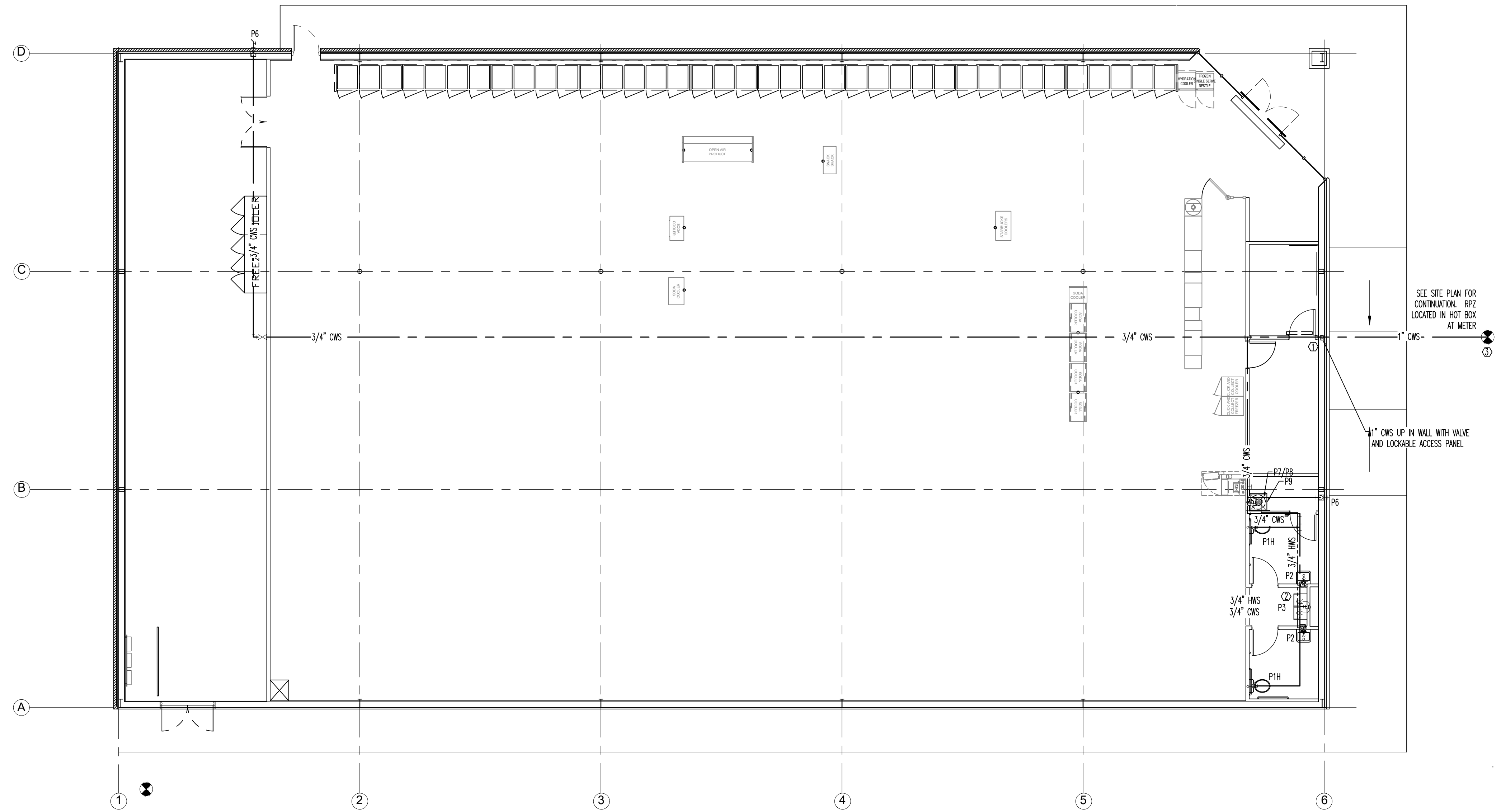
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 PO Box 3304, Henderson, NC 27536 | www.kilianengineering.com  
 (P) 252.438.8778 | CORPORATE LICENSE C2277



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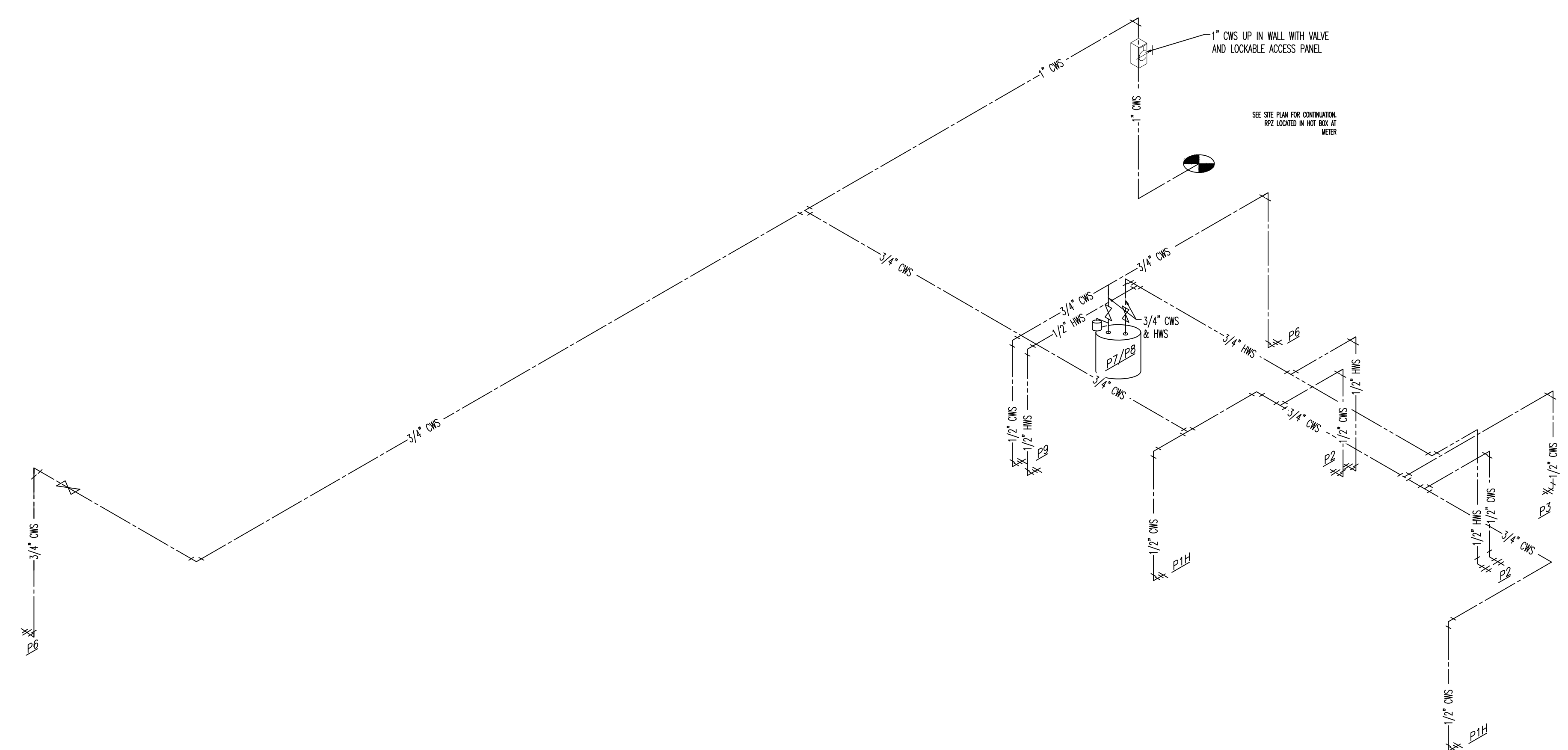
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**P1**



DOMESTIC WATER DELIVERY PLAN - SCALE: 1/8"=1' 1

- PLUMBING KEYED NOTES**
- ① 1" CW UP IN WALL WITH VALVE AND LOCKABLE ACCESS PANEL.
  - ② PLUMBING CONTRACTOR TO RUN WATER LINE IN SALES AREA AS HIGH AS POSSIBLE OVERHEAD.
  - ③ CONTRACTOR TO COORDINATE WATER METER SIZES WITH LOCAL WATER COMPANY AND CIVIL.

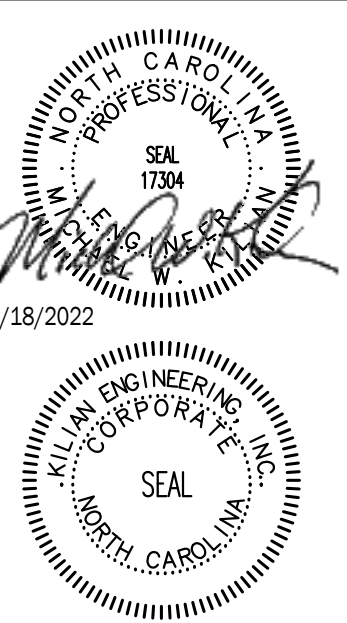


DOMESTIC WATER DELIVERY RISER - NO SCALE 2

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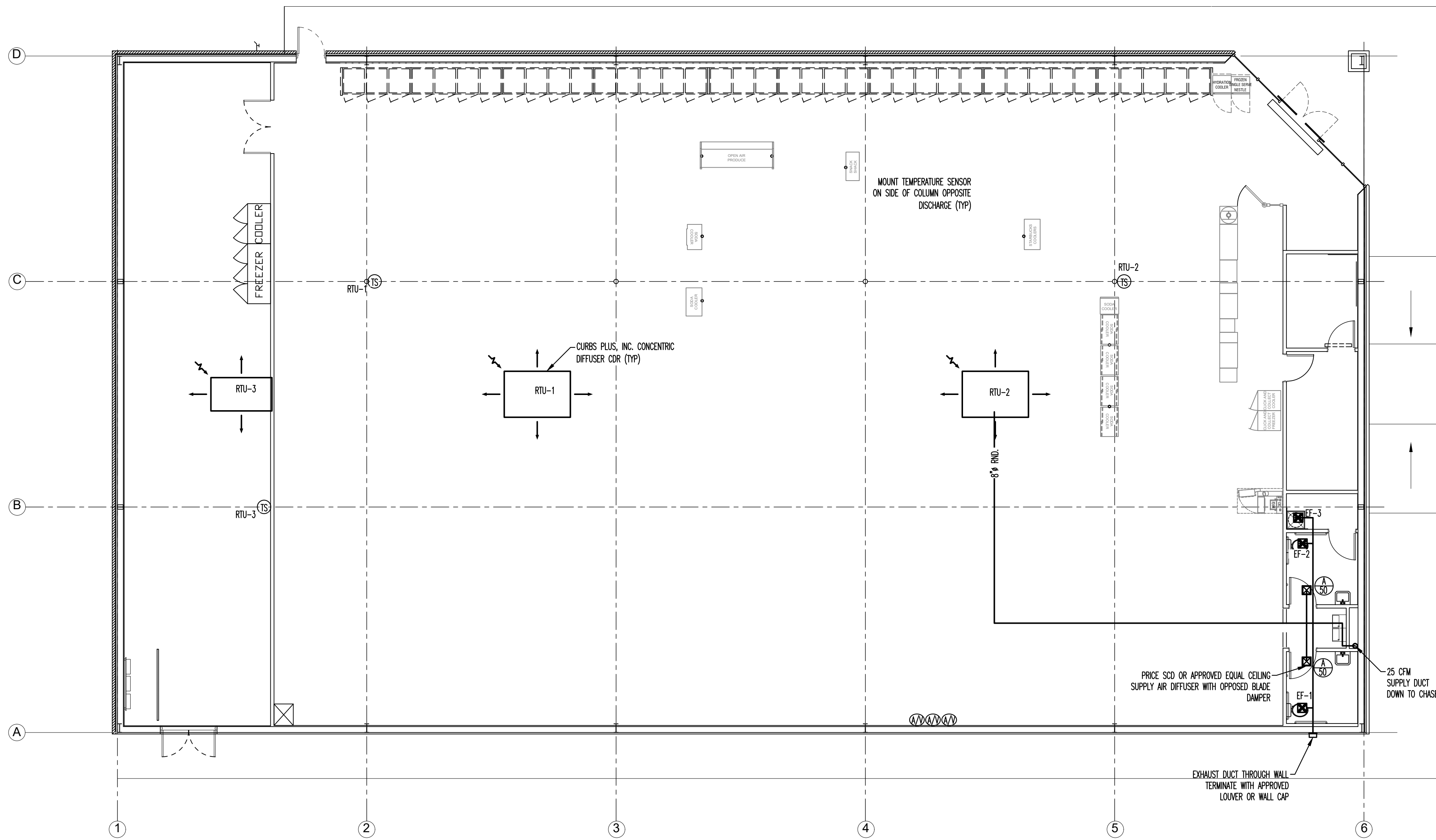


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**P2**





MECHANICAL PLAN - SCALE: 1/8"=1' 1

HVAC PROJECT NOTES

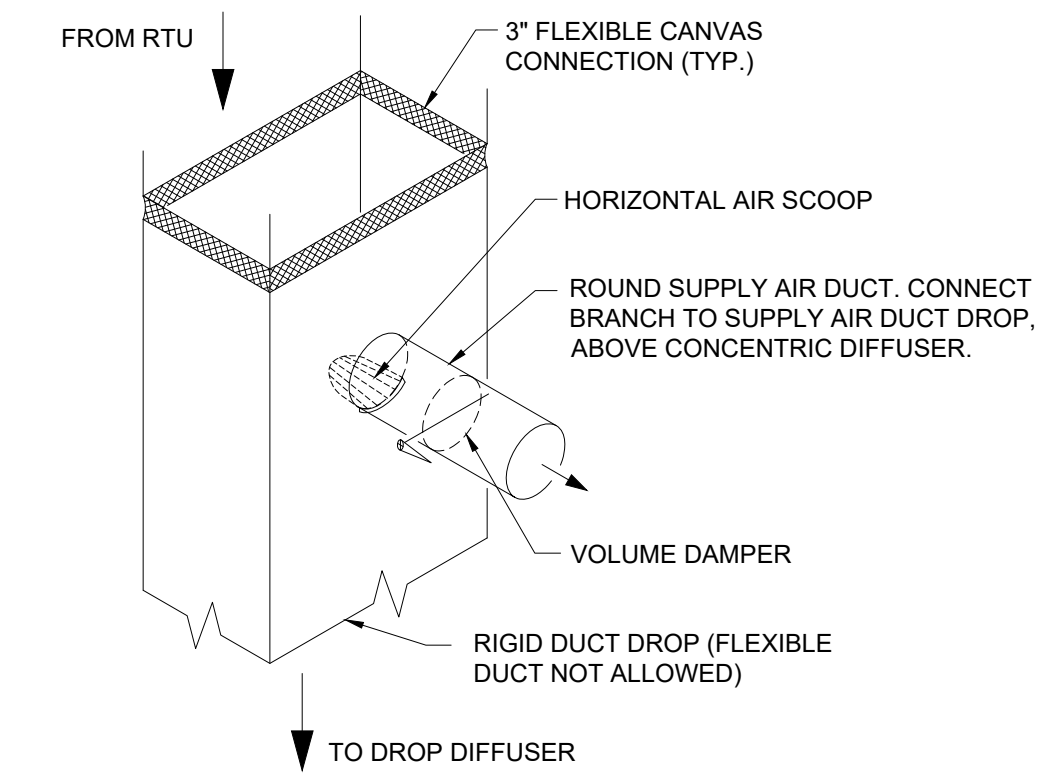
- ALL MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS AND ORDINANCES AND IN A MANNER SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL APPLICABLE FEES.
- DUCTWORK AND HVAC SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATION.
- UNLESS OTHERWISE NOTED ON DRAWINGS, ANY REQUIRED DUCTWORK SHALL BE INSTALLED TIGHT TO STRUCTURE.
- DESIGN ENGINEER TO INDICATE FIRE DAMPERS IN ALL RATED CONSTRUCTION ASSEMBLIES. COORDINATE PLACEMENT OF ALL FIRE DAMPERS WITH RATED ASSEMBLIES ON ARCHITECTURAL DRAWINGS.
- COORDINATE ALL DIFFUSER, GRILLE & REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- NECK SIZE OF LAY-IN DIFFUSERS SHALL BE EQUAL IN DIAMETER TO DUCT RUNOUT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND INCIDENTALS TO THE WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY.
- ALL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ELECTRICAL STARTER, PROTECTIVE DEVICES AND INTERLOCKS, ETC. REQUIRED FOR COMPLETE OPERABLE SYSTEM.
- ALL HVAC EQUIPMENT LOCATIONS SHALL BE COORDINATED TO ENSURE CLEAR ACCESS TO ALL AREAS. EQUIPMENT SHALL BE ORIENTED IN SUCH A MANNER AS TO ALLOW FOR FULL SERVICE/MAINTENANCE.
- COLOR AND FINISH FOR ALL EXTERIOR LOUVER WALL CAP SHALL BE COORDINATED WITH THE ARCHITECT/OWNER.
- THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR TEST, ADJUST AND BALANCE OF THE AIR DISTRIBUTION SYSTEM.
- ALL SUPPLY AND RETURN DUCT SHALL BE CONNECTED TO THE HVAC UNIT WITH FLEXIBLE UL LISTED CANVAS.
- DUCTWORK DIMENSIONS SHOWN ON MECHANICAL PLANS ARE NET CLEAR INSIDE DIMENSIONS.
- OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE, SECTION 401.4.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- UNITS GREATER THAN 2,000 CFM REQUIRE A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT. UNITS BELOW 2,000 CFM ARE TO BE EQUIPPED WITH A FIRESTAT. LOCAL ORDINANCES MAY HAVE MORE STRINGENT REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- SEE ARCHITECTURAL PLANS FOR TYPE OF CONSTRUCTION, OCCUPANCY, AND THE INTENDED USE OF EACH SPACE.
- SEE ARCHITECTURAL PLANS FOR R' VALUES OF CONSTRUCTION COMPONENTS (SUCH AS WALLS, FLOORS, CEILING & PERIMETER INSULATION).
- INSULATING MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT EXCEEDING 450 IN ACCORDANCE WITH ASTM E 84.
- ALL HVAC EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY AS TO REDUCE VIBRATION TRANSMISSION TO STRUCTURAL MEMBERS.

MECHANICAL PROJECT NOTES 2

SYMBOL LEGEND	
	EXHAUST FAN
	SUPPLY AIR DIFFUSER
	TEMPERATURE SENSOR
	RETURN/EXHAUST AIRFLOW
	SUPPLY AIRFLOW
	VOLUME DAMPER
	CONDENSATE PIPE

HVAC SPECIFICATIONS:

- SEE SHEET M0 FOR GENERAL MECHANICAL PROJECT NOTES
- ROOF MOUNTED SYSTEM WITH ANY REQUIRED DUCTWORK, CONFORMING TO ASHRAE SPECIFICATIONS IN SALES FLOOR, OFFICES, REST ROOM, AND RECEIVING AREAS.
- ANY DUCTWORK MUST BE INSTALLED ABOVE 11'-6" A.F.F. NO HVAC DUCT TRUNKLINE TO BE INSTALLED WITHIN 48" RADIUS OF REGISTER/ICE CREAM POWER POLES. REFER TO SHEET E1.1 FOR EXACT LOCATION OF POWER POLES.
- FOR HVAC SENSOR LOCATIONS SEE EMS1 SHEET.
- LENNOX, CARRIER OR YORK PACKAGED HVAC SYSTEMS ARE REQUIRED. SEE HEATING SOURCE REQUIREMENT BY REGION ON M0.
- PROVIDE CEILING EXHAUST FANS FOR RESTROOMS. INTERLOCK WITH RESTROOM LIGHTS. VENT EXHAUST FANS THRU SIDE WALL, NOT THRU THE ROOF. INSTALL BACKDRAFT DAMPERS AT EACH FAN.
- REFER TO S3 FOR ROOF CURB INFORMATION AND DESIGN INTENT.
- CONCENTRIC DIFFUSERS, AVAILABLE THROUGH YORK, CAN BE USED ON ALL VENDOR'S EQUIPMENT. CONTACT YORK NATIONAL PRICING FOR INFORMATION. LOCATE THE BOTTOM OF DIFFUSER AT 12'-0" A.F.F.



NOTE:  
INSTALL HORIZONTAL AIR SCOOP HAVING A CONTINUOUSLY CURVED CROSS SECTION AND BALANCING DAMPER AT DUCT CONNECTION TO DIVERT SUPPLY AIR INTO THE CONNECTED DUCTWORK. LENGTH OF SCOOP SHALL BE LIMITED TO THE WIDTH OF THE SUPPLY AIR ANNULAR SPACE.

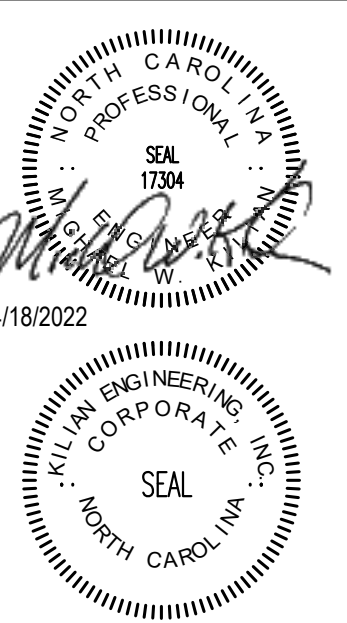
MECHANICAL SPECIFICATIONS AND SCHEDULE 3

HVAC DUCT DETAIL - NO SCALE 4

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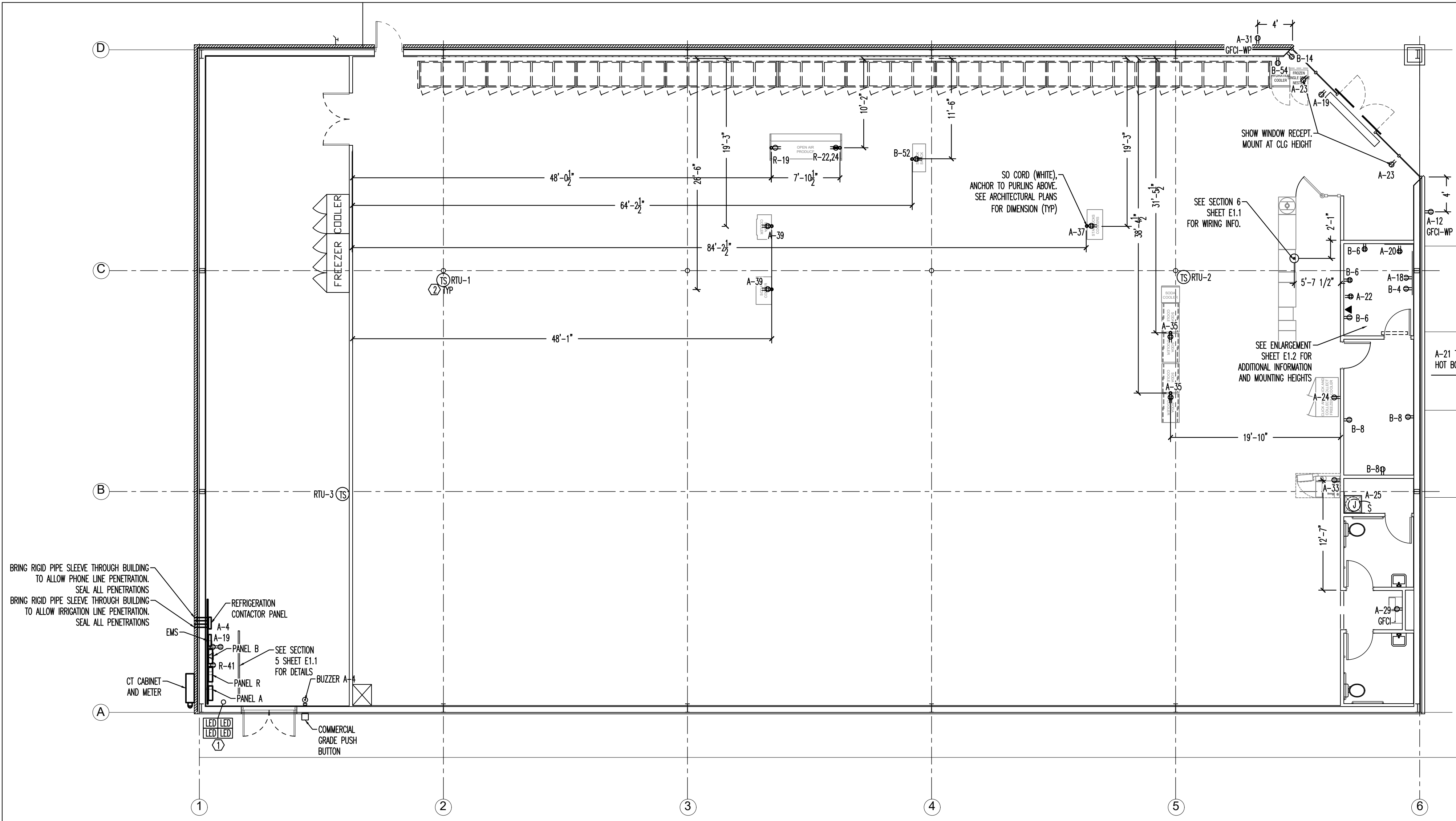
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**DOLLAR GENERAL**  
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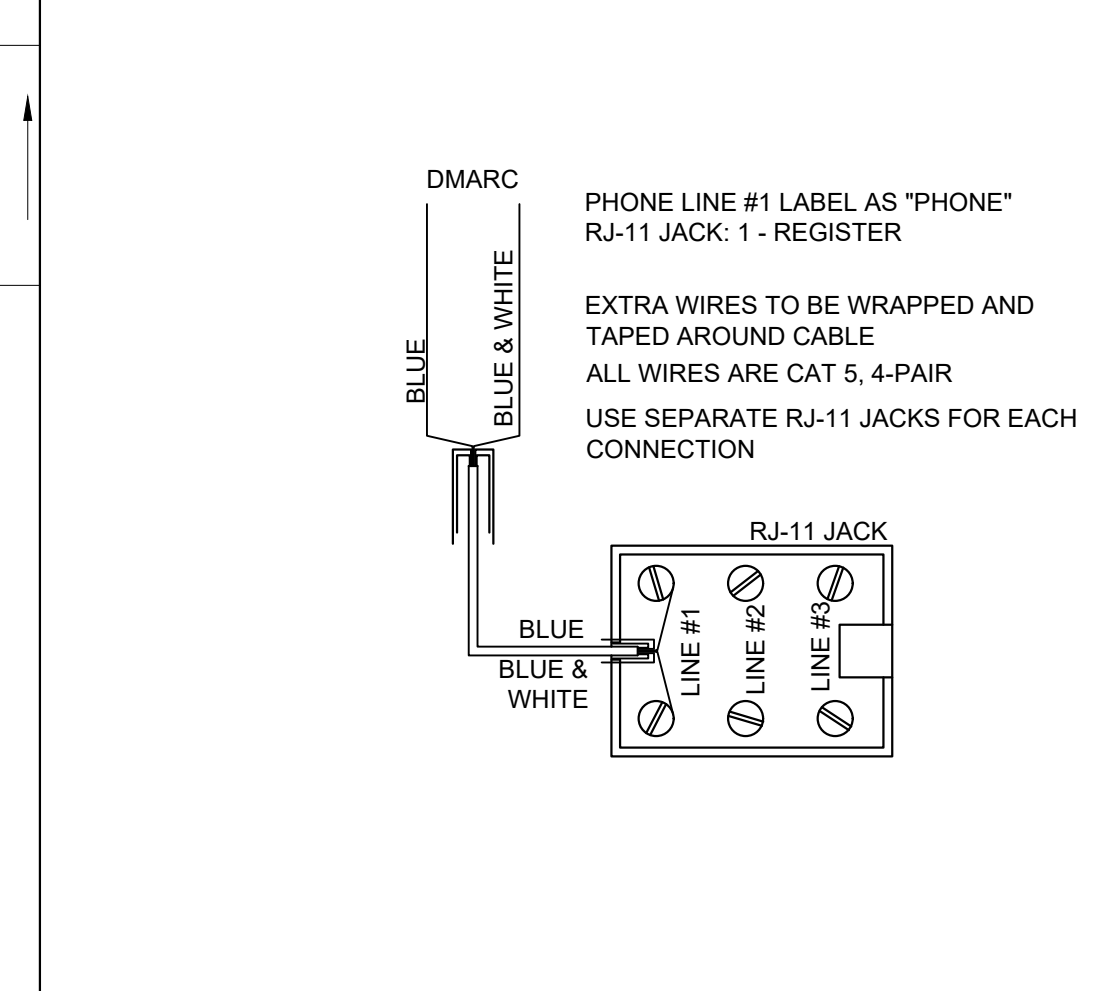
SHEET NUMBER  
**M1**



POWER PLAN - SCALE: 1/8"=1' 1

LEGEND	
SYMB	DESCRIPTION
	BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
	COMMERCIAL GRADE PUSH BUTTON
	125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL
	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
	125V NEMA 5-20R QUAD
	DISCONNECT
	BLACK MAGIC POWER POLE
	PHONE JACK
	RJ-11, RJ-45 DATA JACK, PHONE COMBO
	PANEL/CIRCUIT IN PANEL
	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
	20 AMP TOGGLE SWITCH
	NIGHT LIGHT CIRCUIT

ELECTRICAL LEGEND-NO SCALE 2

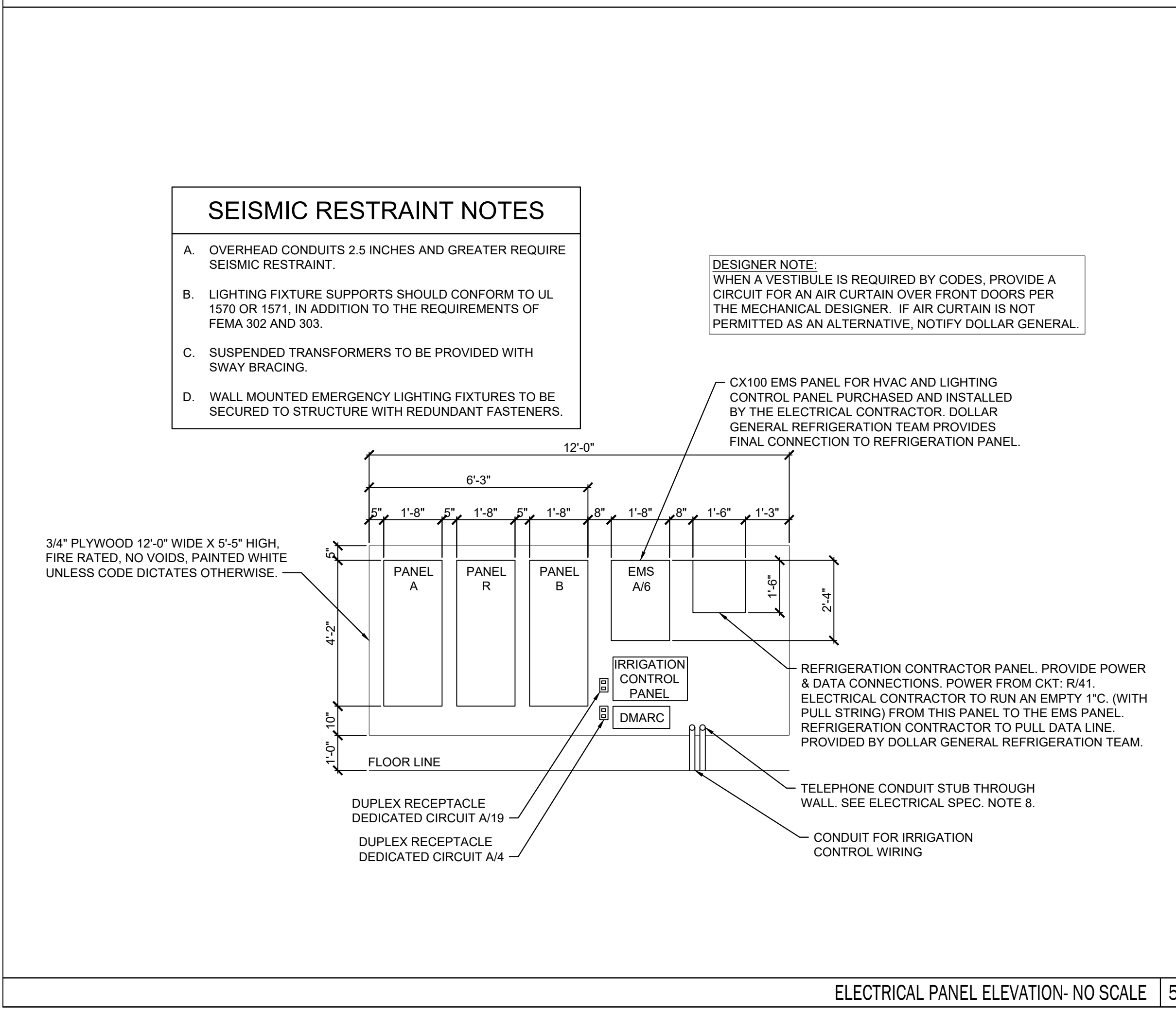


PHONE WIRING SCHEMATIC-NO SCALE 3

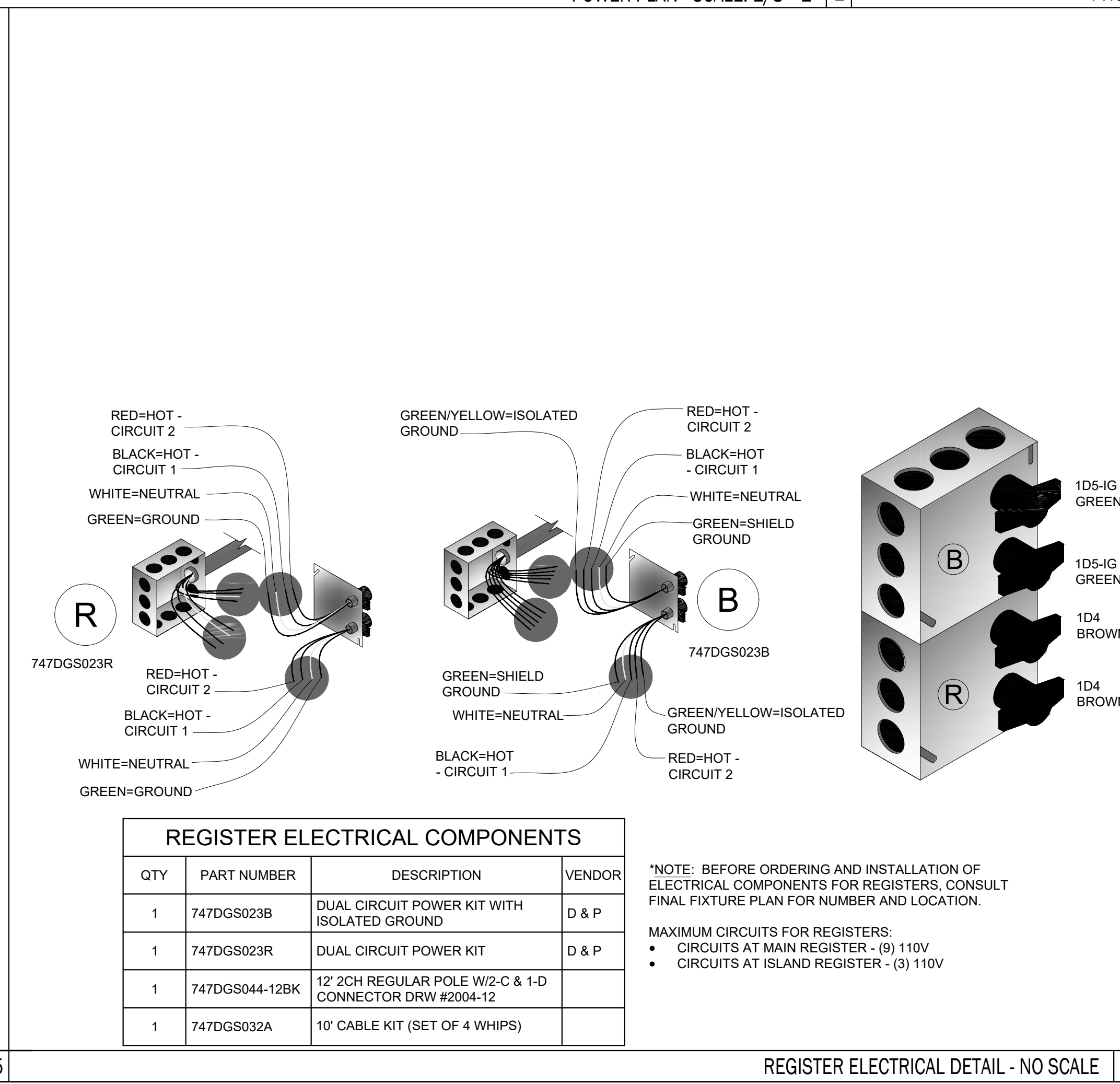
- ### ELECTRICAL SPECIFICATIONS
- ALL WIRING SHALL BE CONTAINED IN CONDUIT OF PROPER SIZE.
  - ALL WIRING SHALL CONFORM TO LOCAL, STATE AND FEDERAL CODES.
  - SERVICE IS TO BE A MINIMUM 400 AMP, 3 PHASE (PREFERRED), 600 AMP, 1 PHASE OR LARGER IF REQUIRED BY CODE OR ELECTRICAL LOAD.
  - REQUIRED CUSTOM BUILT POWER POLE ASSEMBLIES AVAILABLE FROM D&P CUSTOM LIGHTS & PRODUCTS INC., PHONE: (800) 251-2200 OR (615) 350-7800, 7111 COCKRILL BEND INDUSTRIAL ROAD, NASHVILLE, TN 37209. SEE E3.1.
  - EXTERIOR EXPOSED PHONE LINES TO BE INSTALLED IN RIGID CONDUIT. PROVIDE EMERSON 3/4" X 5'-FT. METALLIC CABLE U-GUARD #755, OR EQUAL.
  - ELECTRICAL PANEL TO BE LABELED CORRECTLY WITH LEGIBLE PRINT.
  - LOW VOLTAGE VENDOR TO PROVIDE AND INSTALL ONE (1) 24 GA., 4 TWISTED-PAIR, CATEGORY-FIVE (CAT5) DATA CABLE WITH MODULAR COMBO RJ-11/RJ-45 JACK AT MANAGER'S OFFICE. CABLE TO BE RUN FROM JACK TO DATA HUB LOCATION WITH 6'-0" LEFT COILED FOR INSTALLATION TO DATA HUB. A RJ-45 MALE FITTING SHOULD BE CRIMPED ON THIS END. DOLLAR GENERAL STORE OPENING TEAM WILL MAKE FINAL CONNECTION INTO THE DATA HUB.
  - PROVIDE 1 1/2" EMT CONDUIT TO ACT AS ACCESS SLEEVE TO ALLOW PHONE COMPANY TO TERMINATE AT DMARC. CONTRACTOR TO PROVIDE AND INSTALL PHONE WIRING & RJ-11 PHONE JACK FOR COMPLETED WORKING SYSTEM PRIOR TO PHONE COMPANY FINAL HOOK UP.
  - ALL 120 VOLT OUTDOOR GFCI RECEPTACLES TO HAVE "WET LOCATION - IN USE" COVERS.
  - ALL CONDUCTORS TO BE COPPER, #12 AWG MINIMUM SIZE, OR AS REQUIRED BY LOAD AND OVER CURRENT PROTECTION.
  - SEE EMS SHEETS EMS1 FOR ENERGY MANAGEMENT SYMBOLS AND INFORMATION.
  - ELECTRICIAN TO PROVIDE 1 1/2" CONDUIT WITH PULL STRINGS FOR SATELLITE LOCATION.
  - ALL POWER AND DATA TO BE ROUTED OVERHEAD, UNDER SLAB NOT ALLOWED.

- ### ELECTRICAL KEYED NOTES
- TEST/RESET STATION FOR STAND ALONE DUCT DETECTOR, ONE FOR EACH DEVICE, SEE KEY NOTE 3 ON SHEET E1.3. SIMPLEX #4098-9842 IS SPECIFIED. WITH PIEZO AND LED INDICATOR LIGHT.
  - MECHANICAL THERMOSTAT MOUNTED ON COLUMN AT 8'-0" AFF. SURFACE MOUNT BOX AND CONDUIT. STUB CONDUIT AT STRUCTURE.

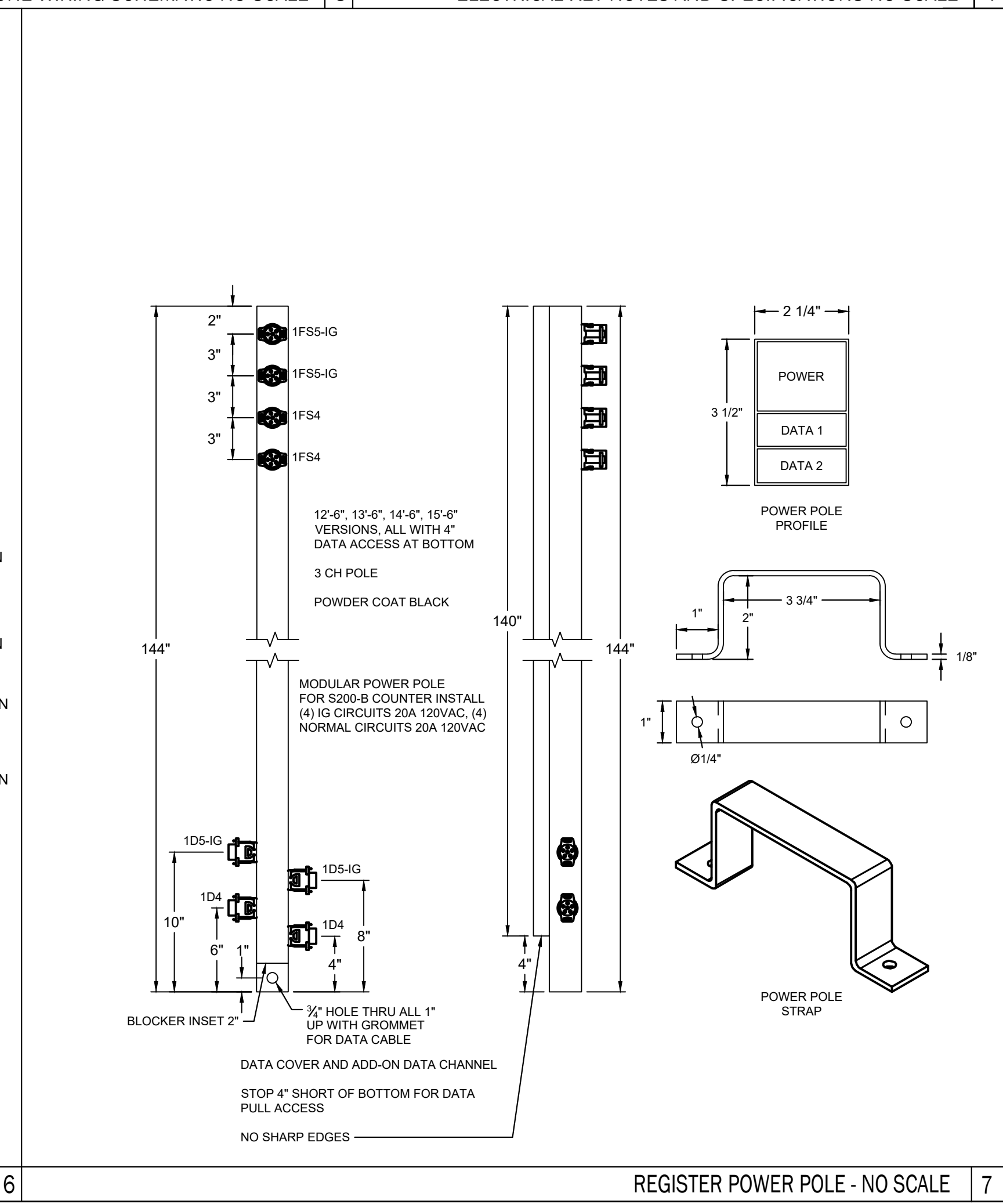
ELECTRICAL KEY NOTES AND SPECIFICATIONS-NO SCALE 4



ELECTRICAL PANEL ELEVATION- NO SCALE 5



REGISTER ELECTRICAL DETAIL - NO SCALE 6



REGISTER POWER POLE - NO SCALE 7

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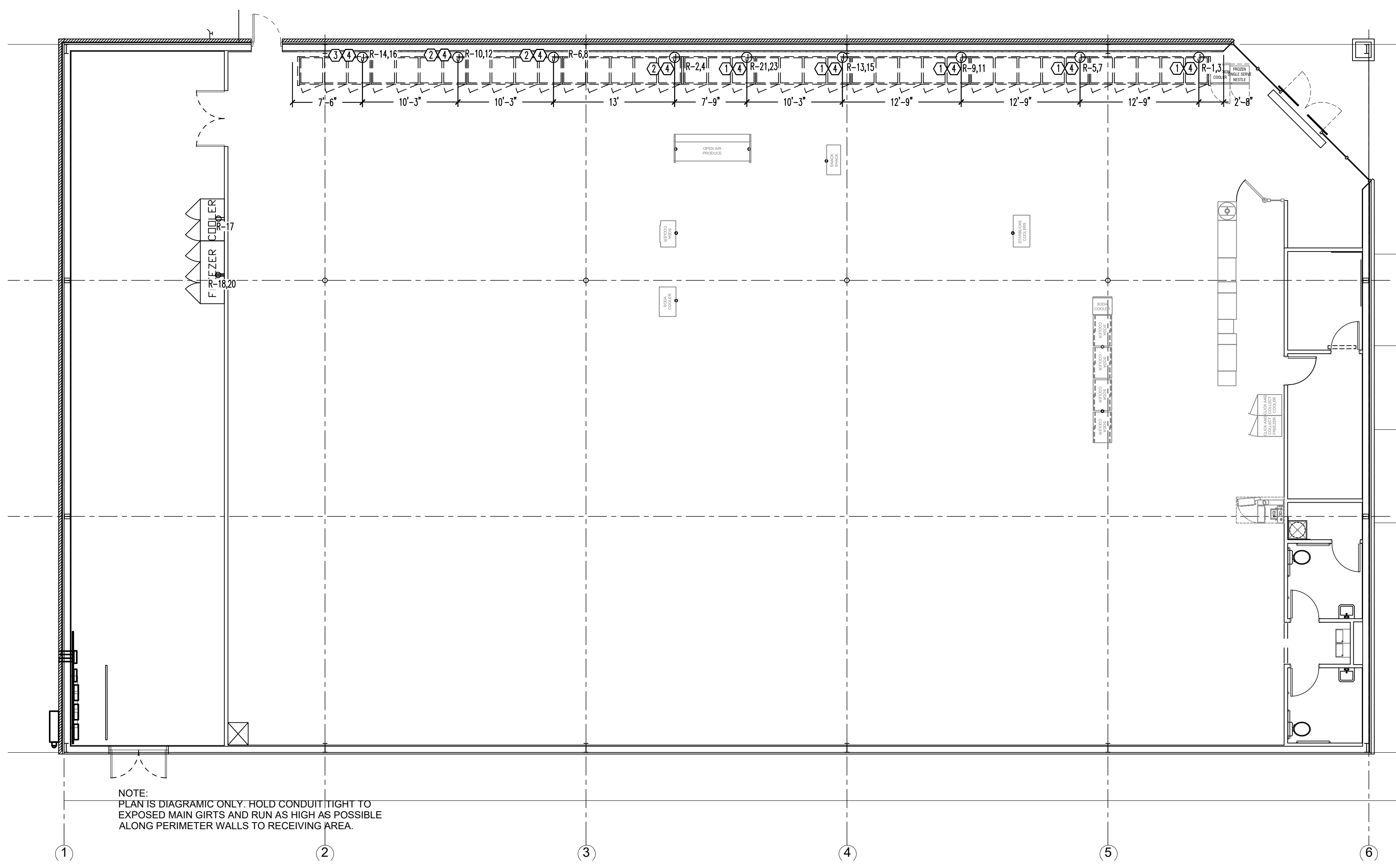
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4/18/2022

**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NC

JOB NUMBER: 22223  
 DRAWN BY: REW  
 DATE: 04/18/2022  
 REVISIONS:

SHEET NUMBER: **E1.1**



NOTE:  
PLAN IS DIAGRAMIC ONLY. HOLD CONDUIT TIGHT TO EXPOSED MAIN GIRTS AND RUN AS HIGH AS POSSIBLE ALONG PERIMETER WALLS TO RECEIVING AREA.

REFRIGERATION POWER PLAN - SCALE: 1/8"=1' 1

LEGEND	
SYMB	DESCRIPTION
5	BUZZER - TORK MDL #T725 W/ TRANSFORMER MDL#TA592
■	COMMERCIAL GRADE PUSH BUTTON
⊕A-23	125V NEMA 5-20R DUPLEX PANEL/CIRCUIT IN PANEL
⊕	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
⊕	125V NEMA 5-20R QUAD
□	DISCONNECT
■	BLACK MAGIC POWER POLE
▲	PHONE JACK
○	RJ-11, RJ-45 DATA JACK, PHONE COMBO
A-23	PANEL/CIRCUIT IN PANEL
§ m	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
†	20 AMP TOGGLE SWITCH
NL	NIGHT LIGHT CIRCUIT

**GENERAL NOTES**

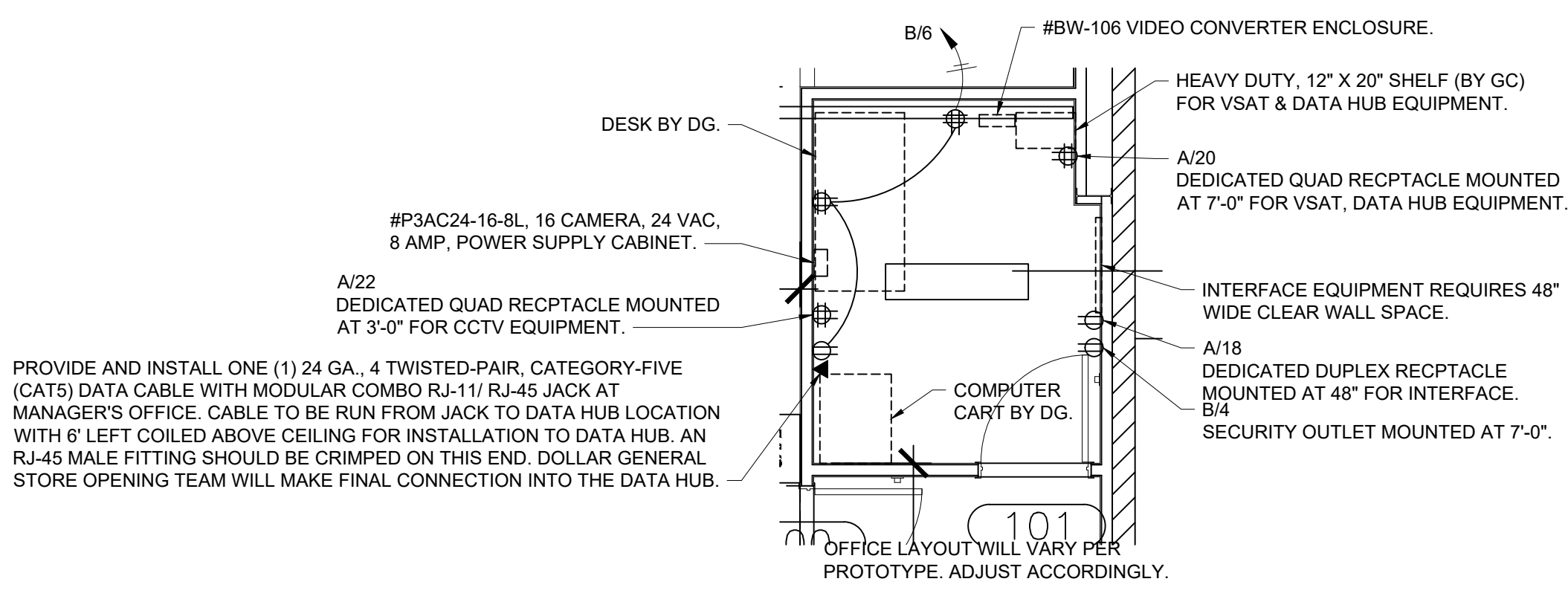
A. MOUNT ALL REFRIGERATOR OUTLETS AT 12" AFF.

**ELECTRICAL KEYED NOTES**

- PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#12 CU. & #12 GROUND IN 3/4" R.C. TO PROVIDE AND INSTALL 30A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
- PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#8 CU. & #10 GROUND IN 1" R.C. TO PROVIDE AND INSTALL 60A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
- PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#10 CU. & #10 GROUND IN 3/4" R.C. TO PROVIDE AND INSTALL 30A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
- MOUNT J-BOX 11" FROM THE RIGHT SIDE OF EACH UNIT. CONFIRM EXACT LOCATION WITH REFRIGERATION VENDOR PRIOR TO WORK (TYP).

ELECTRICAL LEGEND-NO SCALE 2

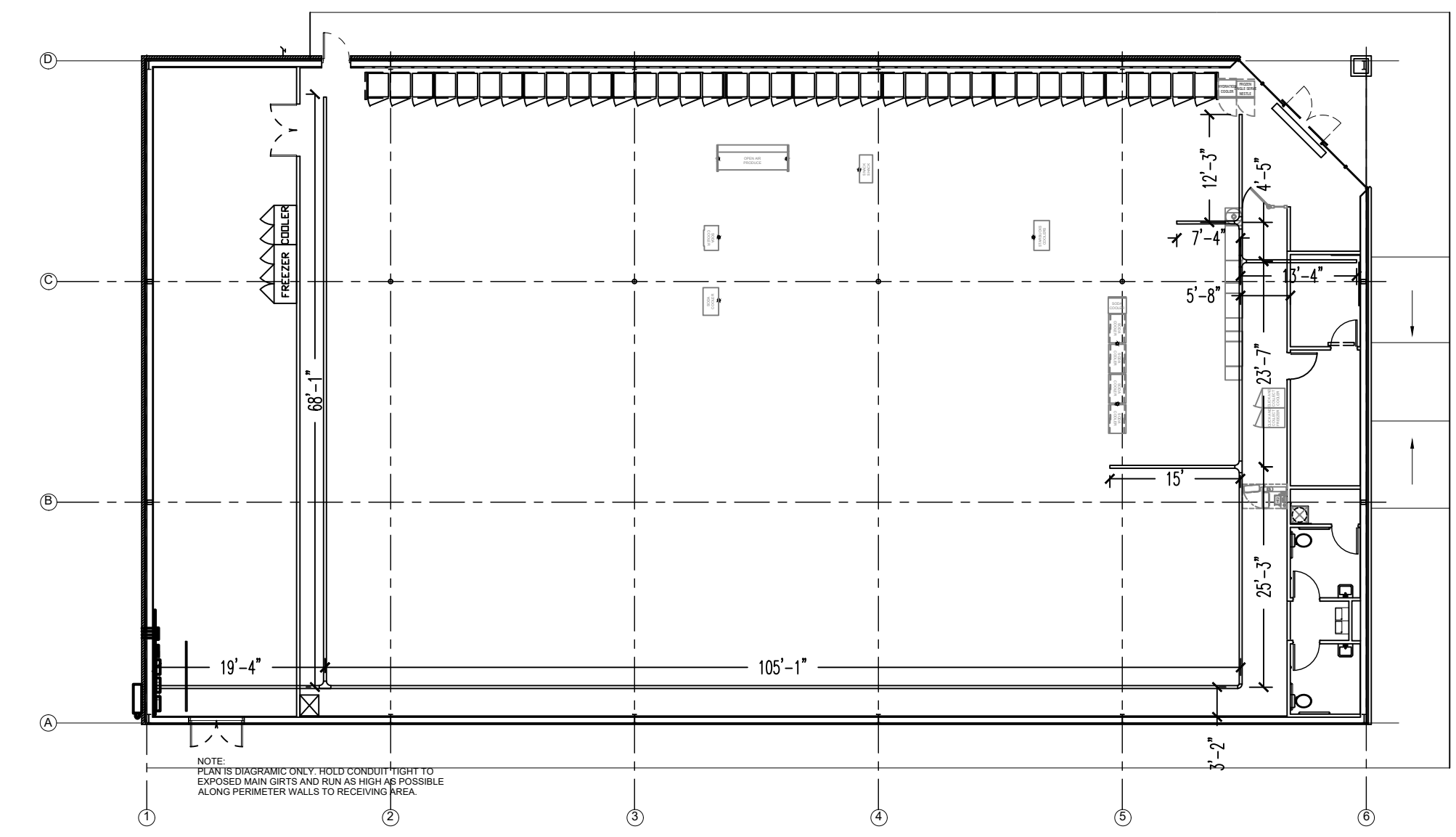
ELECTRICAL KEY NOTES AND SPECIFICATIONS-NO SCALE 3



PROVIDE AND INSTALL ONE (1) 24 GA., 4 TWISTED-PAIR, CATEGORY-FIVE (CAT5) DATA CABLE WITH MODULAR COMBO RJ-11/ RJ-45 JACK AT MANAGER'S OFFICE. CABLE TO BE RUN FROM JACK TO DATA HUB LOCATION WITH 6' LEFT COILED ABOVE CEILING FOR INSTALLATION TO DATA HUB. AN RJ-45 MALE FITTING SHOULD BE CRIMPED ON THIS END. DOLLAR GENERAL STORE OPENING TEAM WILL MAKE FINAL CONNECTION INTO THE DATA HUB.

OFFICE LAYOUT WILL VARY PER PROTOTYPE. ADJUST ACCORDINGLY.

OFFICE ENLARGEMENT PLAN - SCALE: 1/4"=1' 4



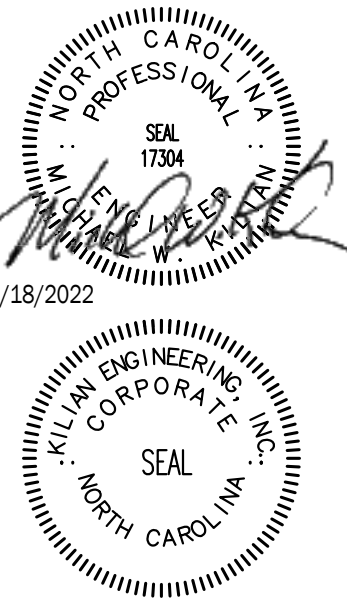
NOTE:  
PLAN IS DIAGRAMIC ONLY. HOLD CONDUIT TIGHT TO EXPOSED MAIN GIRTS AND RUN AS HIGH AS POSSIBLE ALONG PERIMETER WALLS TO RECEIVING AREA.

CABLE TRAY PLAN AND CONDUIT DIAGRAM- SCALE: 1/16"=1' 5

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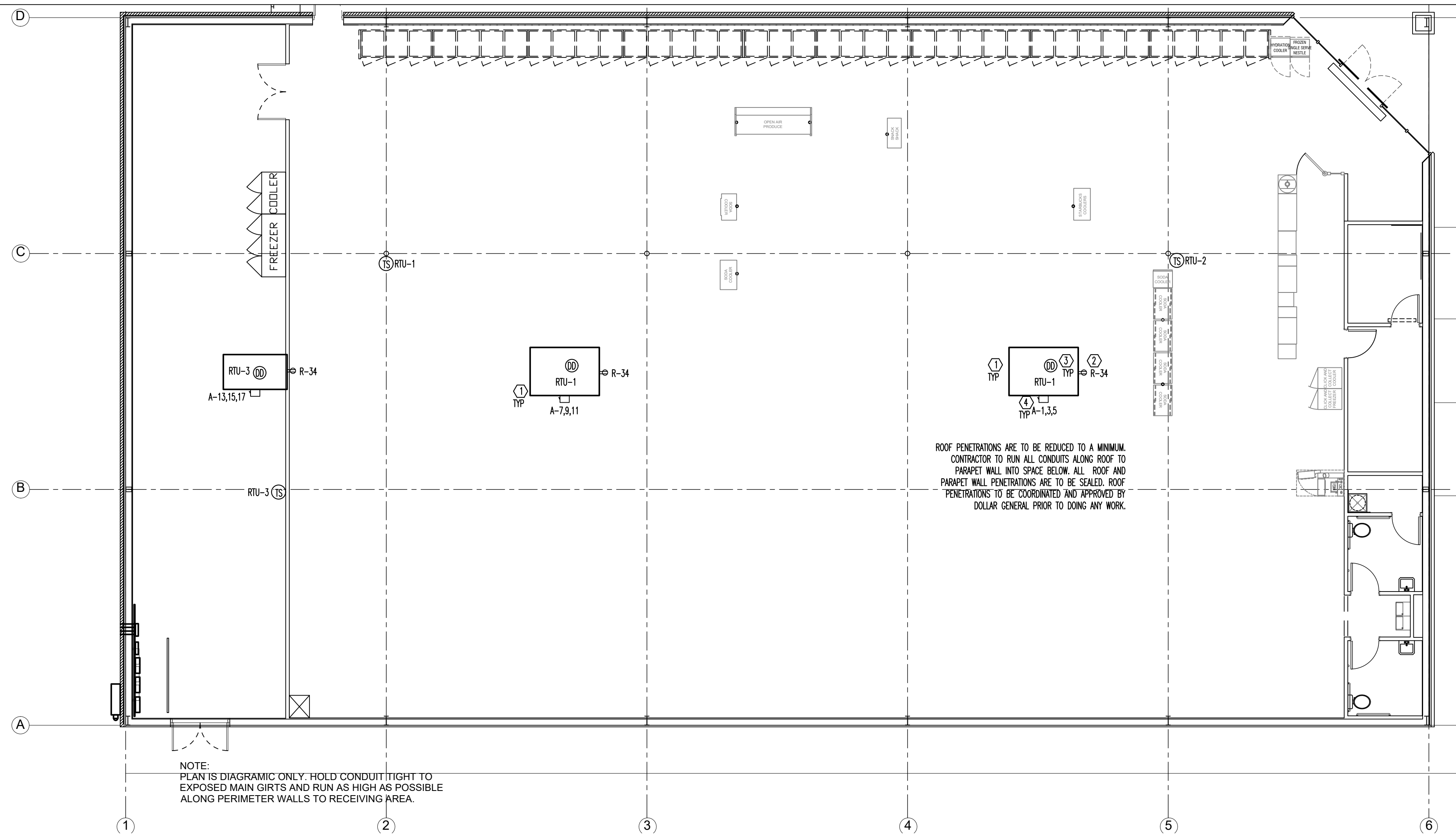
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**DOLLAR GENERAL**  
STORE # 23680  
MAMERS ROAD  
LILLINGTON, NC

JOB NUMBER  
22223  
DRAWN BY  
REW  
DATE  
04/18/2022  
REVISIONS

SHEET NUMBER  
**E1.2**



ROOF POWER PLAN - SCALE: 1/8"=1' 1

LEGEND	
SYMB	DESCRIPTION
	BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
	COMMERCIAL GRADE PUSH BUTTON
	125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL
	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
	125V NEMA 5-20R QUAD
	DISCONNECT
	BLACK MAGIC POWER POLE
	PHONE JACK
	RJ-11, RJ-45 DATA JACK, PHONE COMBO
	A-23 PANEL/CIRCUIT IN PANEL
	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
	20 AMP TOGGLE SWITCH
	NIGHT LIGHT CIRCUIT

ELECTRICAL LEGEND-NO SCALE 2

- ### ELECTRICAL KEYED NOTES
- LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE. CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS. PROVIDE 1/2" C. PENETRATION THRU ROOF WITHIN FOOTPRINT OF UNIT FOR USE WITH CONTROL WIRING TO UNIT BY OTHERS. PROVIDE PROPER WATERSEAL. (TYPICAL)
  - FACTORY MOUNTED POWERED CONVENIENCE OUTLET. FIELD VERIFY THAT OUTLET IS POWERED. WIRE ALL WITH THIS NOTE TO CIRCUIT R-34 IF THEY ARE NOT POWERED.
  - PHOTOELECTRIC DUCT DETECTOR WITH HOUSING. TIE TO LED READOUT. STAND ALONE DEVICE, 120V. SIMPLEX #4098-9687 IS SPECIFIED WITH 4098-9842 CONTROL STATION. PROVIDE ONE DEVICE PER UNIT. MOUNT DEVICE IN SUPPLY AIR DUCTWORK. DEVICE SHALL BE PROVIDED AND WIRED TO THE CONTROL STATION BY THE ELECTRICAL CONTRACTOR. HIRE THE MECHANICAL CONTRACTOR FOR INSTALLATION IN DUCTWORK & CONNECTION TO SHUTDOWN CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS AND 120V POWER. DO NOT POWER DUCT DETECTORS FROM HVAC UNIT LOW VOLTAGE. PLACE ANY REQUIRED LABELING ON CEILING TILE DIRECTLY BELOW UNIT. RUN CONDUIT & WIRE UNDERGROUND FROM UNIT TO INSIDE OF SPACE.
  - MOUNT DISCONNECT SWITCH AT UNIT AS DESCRIBED IN GENERAL NOTE 1 ON THIS SHEET.

ELECTRICAL KEY NOTES -NO SCALE 3

HVAC UNIT WIRING TABLE												
UNIT	WIRE	COND	DISC	FUSE	ENCL	PH	VOLT	GND	BRKR	LOAD	CFM	TONS
RTU-1	#1	2"	200A-3P	125A	NEMA 3R	3Φ	208	#6	125A-3P	44,610	4,000	10.0
RTU-2	#1	2"	200A-3P	125A	NEMA 3R	3Φ	208	#6	125A-3P	44,610	4,000	10.0
RTU-3	#8	1 1/4"	60A-3P	60A	NEMA 3R	3Φ	208	#10	60A-3P	19050	2,000	5.0
EF-1	#12	3/4"	MOTOR RATED SWITCH		NEMA 1	1Φ	120	#12	W/ LIGHTS	50	75	--
EF-2	#12	3/4"	MOTOR RATED SWITCH		NEMA 1	1Φ	120	#12	20A-1P	50	75	--

TABLE NOTES:

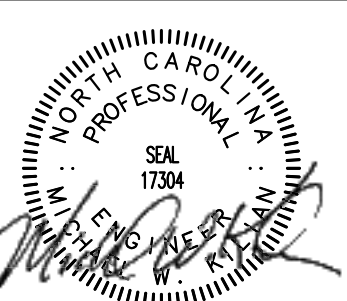
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.
- PROVIDE NEUTRALS ON AS REQUIRED BASIS, FIELD VERIFY.
- ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE, SUBMIT SHOP DRAWINGS. BUSSMAN FRN-R-(AMP) IS SPECIFIED.

HVAC UNIT WIRING TABLE - NO SCALE 4

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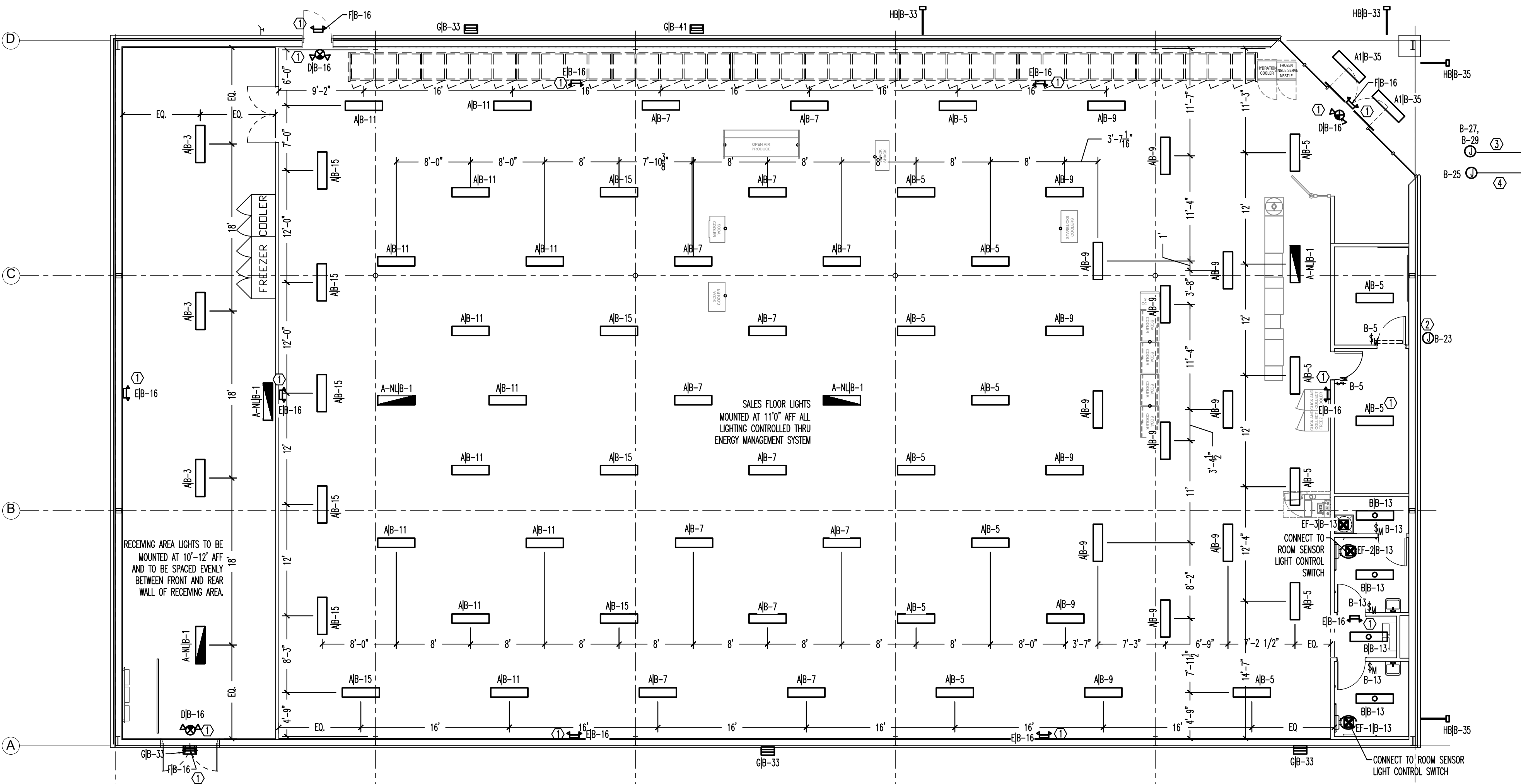
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 22223  
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SHEET NUMBER  
**E1.3**

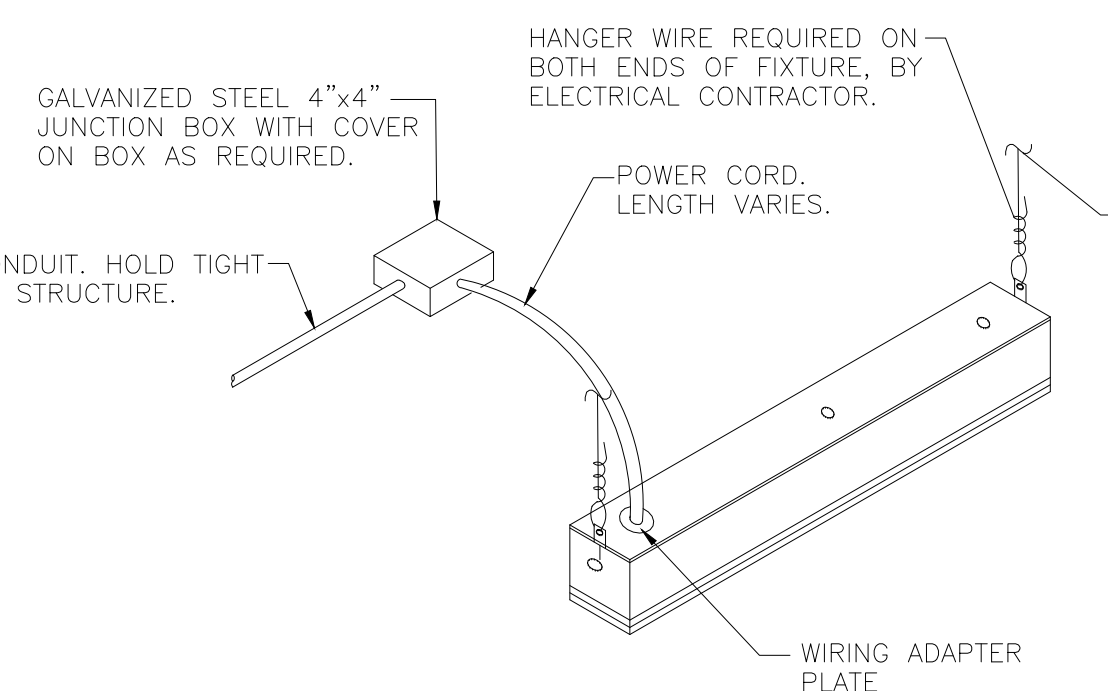


LIGHTING PLAN HEX NOTES

- EMERGENCY/EXIT SIGNS AND LIGHTS: INSTALL EMERGENCY LIGHTS AND EXIT SIGNS (CENTERED AT 10'6" AFF TO BE ABOVE FIXTURES AND MERCHANDISE)
- COORDINATE BUILDING SIGN SIZE WITH DOLLAR GENERAL SIGN DEPARTMENT BY EMAILING TO SIGNAGE@dollargeneral.com WIRE ON CIRCUIT B-23. LOCATE BOX HIGH ON WALL 12" LEFT FROM CENTER OF BUILDING FOR 26" SIGNS AND 16" LEFT FROM CENTER OF BUILDING FOR 33" SIGNS. SEE ELEVATIONS.
- 1" PVC SCH. 40 UNDERGROUND CIRCUITS TO SITE LIGHTING B-27-B-29.
- PYLON SIGN, 1" PVC SCH. 40 UNDERGROUND TO SIGN. B-25.



LIGHTING PLAN - SCALE: 1/8"=1' 1



TYPICAL LED FIXTURE MOUNTING DETAIL - NO SCALE 2

SYMBOL	MARK	DESCRIPTION	LAMPS			VOLTAGE	INPUT VOLTAGE	MOUNTING	QTY.	REMARKS	MFG	MODEL	
			TYPE	WATTAGE	QTY.								CCT
[Symbol]	A	4' LED STRIP INCLUDES (2) - 8 FT CABLES	LED	33	1	5000K	120	33	SUSPENDED	70	LEDS	ST5000	
[Symbol]	A1	4' BBU COMPATIBLE LED FIXTURE	LED	33	1	5000K	120	33	SUSPENDED	7	ETI	54573161	
[Symbol]	B	2' LED STRIP SURFACE MOUNT	LED	20	1	5000K	120	20	SURFACE	6	LEDS	ST2000	
[Symbol]	D	EMERGENCY LIGHT/EXIT COMBO 2 HEADS	LED	20	1	-	120	20	SUSPENDED	4	LEDS	EM2505	
[Symbol]	E	LED EMERGENCY LIGHT 2 HEADS	LED	20	1	-	120	20	SUSPENDED	7	LEDS	EL2500	
[Symbol]	F	EMERGENCY EGRESS LIGHT 2 HEADS	LED	20	1	-	120	20	SUSPENDED	3	LEDS	EL2502	
[Symbol]	G	WALL PACK	LED	46	1	5000K	120	46	WALL	4	2-4	LEDS	WP4250
[Symbol]	HB	LED AREA LIGHT MOUNTED ON WALL	LED	150	1	5000K	120	150	WALL	4	2-4	LEDS	AL1210

- FIXTURES LABELED FOR EMERGENCY USE SHALL HAVE BATTERY FOR 90 MINUTE ILLUMINATION OF TWO (2) LAMPS
- NET LOCATION LISTED
- PHOTOCELL CONTROLLED
- FULL CUT OFF

LIGHTING SCHEDULE - NO SCALE 3

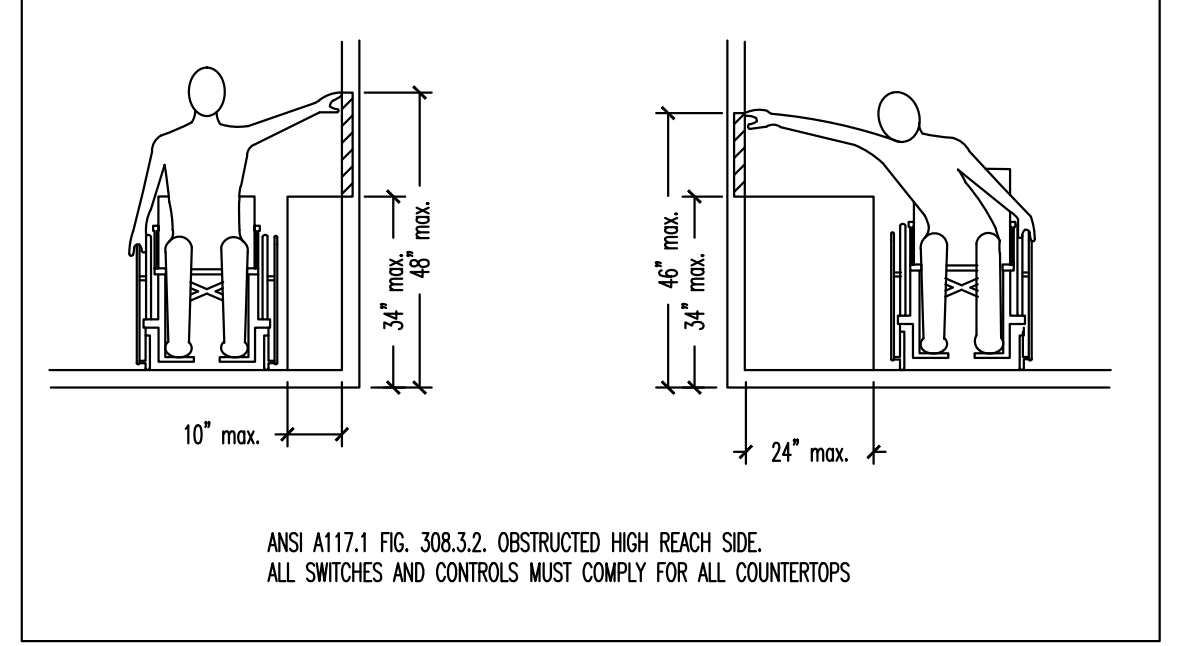
ELECTRICAL DESIGNER'S STATEMENT			
ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE			
PRESCRIPTIVE ___ PERFORMANCE ___ ENERGY COST BUDGET ___			
<b>LIGHTING SCHEDULE:</b>			
LAMP TYPE REQUIRED IN FIXTURE:	SEE LIGHTING LEGEND		
NUMBER OF LAMPS PER FIXTURE:	SEE LIGHTING LEGEND		
BALLAST TYPE USED IN FIXTURE:	SEE LIGHTING LEGEND		
NUMBER OF BALLASTS IN FIXTURE:	SEE LIGHTING LEGEND		
TOTAL WATTAGE PER FIXTURE:	SEE LIGHTING LEGEND		
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED:	WATTS SPECIFIED	WATTS ALLOWED	
	2680	11814	
ALL EXTERIOR LUMINAIRES > 100W MUST HAVE A MINIMUM EFFICACY OF 60 LUMENS/WATT			
OCCUPANCY	AREA (FT <sup>2</sup> )	ALLOWANCE (W/FT <sup>2</sup> )	MAX WATTAGE ALLOWED
RETAIL	10740	1.10	11814
TOTAL	10740		11814
EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)			
MOTOR HORSEPOWER:	N/A		
NUMBER OF PHASES: BUILDING IS 208Y/120V, 3ø, 4w			
MINIMUM EFFICIENCY:	N/A		
MOTOR TYPE:	N/A		
NUMBER OF POLES:	N/A		
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE STATE ENERGY CODE, 2018 EDITION.			
FOR THE ADDITIONAL PRESCRIPTIVE REQUIREMENT REQUIRED BY C406 OF 2018 NORTH CAROLINA ENERGY CONSERVATION CODE, WE ARE CHOOSING C406.3 - REDUCED LIGHTING POWER DENSITY.			
2680 W SPECIFIED <= 10624 W (11814 W ALLOWED X 90%)			

ELECTRICAL DESIGNER'S STATEMENT 4

GENERAL ELECTRICAL NOTES:

- ADMINISTRATIVE:**
- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS: PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR, FASC - FIRE ALARM SYSTEM CONTRACTOR.
  - "PROVIDE" MEANS TO FURNISH AND INSTALL. THE ELECTRICAL CONTRACTOR SHALL ALSO INSTALL MATERIALS AND EQUIPMENT FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR AS REQUIRED.
  - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE COVERAGE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE COVERAGE.
  - WORKMANSHIP SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING."
  - ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE ELECTRICAL CONTRACTOR AT AN APPROVED LOCATION. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE ELECTRICAL CONTRACTOR UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
  - THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
  - DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
  - TRADE NAMES AND MANUFACTURERS ARE SPECIFIED TO ESTABLISH A QUALITY STANDARD. SUBSTITUTIONS SHALL BE PERMITTED IF APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL LISTED MODEL NUMBERS SHALL BE VERIFIED WITH THE MANUFACTURER FOR PROPER APPLICATION OF EQUIPMENT.
  - THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
  - GROUNDING AND BONDING SHALL BE PER NEC ARTICLE 250. THE RACEWAY SYSTEM SHALL NOT BE RELIED UPON FOR GROUNDING CONTINUITY. A GREEN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NEC TABLE 250-122, SHALL BE RUN IN ALL POWER RACEWAYS. FOR NON-ISOLATED GROUND CIRCUITS PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN FOR ISOLATED GROUND CIRCUITS, PROVIDE ONE NEUTRAL AND ONE ISOLATED GROUND WIRE FOR EACH CIRCUIT. IN ADDITION, PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN MAIN BONDING JUMPERS AND SYSTEM BONDING JUMPERS SHALL BE INSTALLED IN ACCORDANCE WITH 250.28 OF THE NEC. FOR BUILDINGS OR STRUCTURES SUPPLIED BY FEEDERS OR BRANCH CIRCUITS, GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH 250.32. SEPARATELY DERIVED AC SYSTEMS SHALL BE GROUNDING IN ACCORDANCE WITH 250.30. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS; ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED PER 250.56 AS NECESSARY.
  - THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR REGARDING THE BONDING OF THE FOOTING REBAR, SO THAT IT WILL BE IN PLACE AND READY AT TIME OF FOOTING INSPECTION.
  - ALL MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE UNDERWRITERS' LABORATORIES, INC. STANDARDS OR HAVE UL APPROVAL, OR BEAR UL RE-EXAMINATION LISTING WHERE SUCH APPROVAL HAS BEEN ESTABLISHED FOR THE TYPE OF DEVICE IN QUESTION.
  - CONDUCTORS, FUSES, CIRCUIT BREAKERS, AND DISCONNECT SWITCHES SHOWN ON THESE PLANS HAVE THE SIZE FOR THE SPECIFIED EQUIPMENT. BEFORE ORDERING ELECTRICAL EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON THE SITE AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES SHOULD CONDUCTOR, CIRCUIT BREAKER, OR FUSE SIZES REQUIRE CHANGE.
  - THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THE FOLLOWING MATERIALS ARE RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT: LIGHT FIXTURES, INCLUDING PROPER DISPOSAL OF BALLASTS, FLUORESCENT LIGHT BULBS, AND TRANSFORMERS, WIRING AND ELECTRICAL EQUIPMENT, AND INSULATION. WASTE MATERIALS CONTAINING LEAD, ASBESTOS, PCBs (FLUORESCENT LAMP BALLASTS), OR OTHER HARMFUL SUBSTANCES SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL AND STATE LAWS AND REQUIREMENTS CONCERNING HAZARDOUS WASTE.
  - CONDUCTORS SHALL BE IDENTIFIED IN ACCORDANCE WITH 2018 STATE BUILDING CODE, AND ALL APPLICABLE LOCAL CODES.
- MATERIALS:**
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, RECEPTACLES, TERMINALS, ETC. UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SERVICE ENTRANCE EQUIPMENT, SUB PANELS, AND OTHER ELECTRICAL DISTRIBUTION EQUIPMENT AS NECESSARY FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH UTILITY REGARDING SERVICE AND METERING DETAILS. PRIOR TO ORDERING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT OR TRANSFORMER SIZE AND IMPEDANCE FROM THE UTILITY AND CONTACT THE ENGINEER IF THE VALUE EXCEEDS THE EQUIPMENT SPECIFIED. PANEL BOARDS AND SWITCH BOARDS SHALL BE SQUARE D, OUTFER-HAMANN, SCHMIDT, OR GE. BUSSES SHALL BE COPPER UNLESS OTHERWISE APPROVED BY THE ENGINEER. RECESSED PANEL BOARDS SHALL BE INSTALLED FLUSH WITH THE WALL FINISH. METER BASES SHALL COMPLY WITH THE UTILITY'S SPECIFICATIONS AND SHALL BE MOUNTED AT A HEIGHT APPROVED BY THE UTILITY. ALL EQUIPMENT IDENTIFIED FOR SERVICE ENTRANCE USE SHALL BE SO LABELED AND UL LISTED FOR SUCH USE. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT WITH CLEARANCES PER NEC 110.26. ELECTRICAL CONTRACTOR SHALL PERMANENTLY LABEL EQUIPMENT PER NEC 110.24.
  - ENCLOSED SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE BY SQUARE D, EATON, OR GE. ENCLOSED SWITCHES SHALL HAVE A HANDLE LOCKABLE IN THE OFF POSITION AND SHALL HAVE A HANDLE INTERLOCKED TO PREVENT OPENING THE FRONT COVER WHILE IN THE ON POSITION. ENCLOSED SWITCHES OF THE FUSIBLE TYPE SHALL BE FUSED IN ACCORDANCE WITH MANUFACTURER DATA WITH DUAL ELEMENT TYPE FUSES BY Bussman, LITLUSE, OR Mersen.
  - OCCUPANCY SENSORS SHALL BE BY MATSTOPPER, LUTRON, LEVITON, SENSOR SWITCH, HUBBELL, OR APPROVED EQUAL.
  - CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL MAGNETIC TYPE WITH QUICK-MAKE, QUICK-BREAK MECHANISM. COMMON TOP OR MULTI-POLE BREAKERS, AND UL LISTED FOR BOTH COPPER AND ALUMINUM CONDUCTORS. CIRCUIT BREAKERS IN PANELS SHALL BE SERIES RATED WITH

- THE MAIN BREAKER, FULLY RATED FOR THE SYSTEM, OR SERIES RATED WITH THE BREAKER FEEDING THE PANEL FROM THE FACTORY.
  - ALL WIRE, CONNECTORS, TERMINALS, AND LUGS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WHERE CONDUCTORS ARE RUN IN PARALLEL, LUGS SHALL BE LISTED FOR PARALLEL CONDUCTORS. PUSH WIRE CONNECTORS ARE NOT ALLOWED FOR BUILDING WIRE. PUSH WIRE CONNECTORS ARE ONLY ALLOWED, WHEN APPROVED, AS PART OF MANUFACTURED LISTED PRODUCTS. ALL WIRE SHALL BE INSTALLED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE.
  - INSULATION TYPE FOR INTERIOR WIRING SHALL BE DUAL RATED OR THIN/THIN OR XHHW; ALL WIRING INSTALLED BELOW GRADE OR IN MOIST OR WET LOCATIONS SHALL HAVE TYPE THIN OR XHHW INSULATION. INSULATION VOLTAGE RATING SHALL BE 600 VOLTS AND A MINIMUM TEMPERATURE RATING OF 75°C. CONDUCTORS SHALL BE SOLID OR STRANDED COPPER FOR #10 AWG AND #12 AWG, AND STRANDED COPPER FOR #8 AWG AND LARGER SIZES. ALL WIRING AND CABLE SHALL BE UL LISTED. ALL TERMINATIONS AND DEVICES SHALL BE RATED FOR USE WITH 75°C CONDUCTORS. FINAL CONNECTIONS TO ALL MOTORS AND EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT SHALL BE MADE WITH STRANDED COPPER CONDUCTORS. CONDUCTORS SHALL BE BY CECO WIRE, INC., INDUSTRIAL WIRE & CABLE, INC., ENCORE WIRE CORPORATION, OR SOUTHWIRE COMPANY.
  - JOINTS IN SOLID CONDUCTORS SHALL BE SPICED USING IDEAL "WIRE NUTS," 3M "SPOCKET LOCK," OR TAP "7000" CONNECTORS IN JUNCTION BOXES AND SPLIT BOXES, AND LISTING FITTINGS. JOINTS IN STRANDED CONDUCTORS SHALL BE SPICED BY APPROVED MECHANICAL CONNECTORS AND GUM RUBBER TAPE OR FRICTION TAPE. SOLDERLESS MECHANICAL CONNECTORS FOR SPLICES AND TAPS, PROVIDED WITH UL APPROVED INSULATING COVERS, MAY BE USED INSTEAD OF MECHANICAL CONNECTORS PLUS TAPE. IN ALL CASES, CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICING SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES, TROUGHS, OR GUTTERS. WHERE CONCENTRIC, ECCENTRIC, OR OVERSIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING TYPE INSULATED BUSHING SHALL BE PROVIDED.
  - ALL LUMINAIRES SHALL BE LISTED. LUMINAIRES IN WET OR DAMP LOCATIONS SHALL BE MARKED AS SUITABLE FOR THE RESPECTIVE USE. EMERGENCY LIGHTING SHALL BE INSTALLED AS SHOWN. FINAL LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS MEETING ANSI C82.11 FOR ELECTRONIC BALLAST PERFORMANCE. ALL BALLASTS SHALL BE UL LISTED AND MEET FEDERAL AND STATE EFFICIENCY REQUIREMENTS.
  - ALL CONDUIT, FITTINGS, COUPLERS, AND SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUIT FITTINGS AND COUPLINGS SHALL BE BY APPLINGTON, RACO, OR O-2/GEENEY. COUPLINGS SHALL BE THREADED, SET-SCREW, OR COMPRESSION TYPE. INDENTER OR CRIMP TYPE ARE NOT PERMITTED. CONDUIT FITTINGS AT ALL ELECTRICAL BOXES, INCLUDING PULL, JUNCTION, AND OUTLET BOXES, SHALL HAVE INSULATED THROATS TO PREVENT INSULATION SCORING. DIE CAST FITTINGS ARE NOT PERMITTED.
  - EXIT SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE-AMERICAN NATIONAL STANDARD FOR RIGID METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR ELECTRICAL RIGID STEEL CONDUIT (ERSC), ANSI C80.1 AND UL 6. INTERMEDIATE METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR INTERMEDIATE METAL CONDUIT ANSI C80.6 AND UL 1242.
  - METAL CONDUIT SHALL BE BY ALIED TUBING & CONDUIT, BECK MANUFACTURING, INC., OR WHEATLAND TUBE COMPANY. FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT, AND NONMETALLIC CONDUIT SHALL BE BY AFC CABLE SYSTEMS, INC., ELECTRO-FLEX COMPANY, OR INTERNATIONAL METAL HOSE.
- METHODS:**
- EC SHALL REVIEW THE MECHANICAL PLANS TO ESTABLISH POINTS OF CONNECTION AND THE EXTENT OF THE ELECTRICAL WORK TO BE PROVIDED IN THE CONDUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE MINIMUM #12 AWG IN 3/4 IN CONDUIT. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SOURCE PER NEC 210.4(B). GROUP ALL CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT PER 210.4(D) WITH WIRE TIES OR SIMILAR MEANS. DO NOT EXCEED THREE HOMERUNS PER CIRCUIT. DO NOT INSTALL SOLIDLY GROUND AND NON-ISOLATED GROUND CIRCUITS IN THE SAME CONDUIT. INSTALL CONDUCTORS OF DIFFERENT VOLTAGES IN SEPARATE CONDUITS.
  - WHERE CONDUCTORS PER NEC FEEDERS SHALL BE IDENTIFIED IN ACCORDANCE WITH NEC 215.12. USE BLACK, RED, AND BLUE FOR PHASES A, B, AND C RESPECTIVELY ON 208Y/120 VOLT THREE-PHASE Y SYSTEMS AND WHITE FOR THE NEUTRAL. ISOLATED GROUND WIRES SHALL BE GREEN WITH YELLOW BANDS OR STRIPES. THIS IDENTIFICATION SHALL BE MADE AT EACH POINT WHERE A CONNECTION IS MADE. COLORS SHALL BE PRIMARY APPLIED FOR CONDUCTORS #6 AWG AND SMALLER. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN IN COLOR AND MINIMUM #12 AWG. THE EC SHALL PROVIDE PLENUM RATED CABLE FOR ANY ELECTRICAL, TELEPHONE, COMMUNICATION, OR OTHER CABLE THAT ENTERS CEILING RETURN PLENUMS.
  - ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING. COORDINATE LIGHTING LAYOUT WITH CEILING GRID, MECHANICAL EQUIPMENT, DUCTWORK AND SPRINKLER HEADS NECESSARY. SEE REFLECTED CEILING PLAN FOR DETAILS. FLUORESCENT FIXTURES UTILIZING DOUBLE-ENDED LAMPS MUST HAVE A DISCONNECTING MEANS COMPLYING WITH NEC 410.130(C).
  - MOUNT LIGHT SWITCHES AT 48 IN AFF. MULTIPLE SWITCHES AT SAME LOCATION SHALL BE UNDER ONE WALL PLATE. VERT. WALL PLATE COLOR AND MATERIAL WITH THE ARCHITECT/OWNER. INSTALL SWITCHES WITH #4 POSTION DOWN. ALL SWITCHES SHALL BE HEAVY DUTY, NORY PLASTIC WITH TONGUE HANDLE, RATED 120-277V AC, AND COMPLYING WITH NEMA WD 6 AND WD 1. SWITCHES SHALL BE BY COOPER WIRING DEVICES, LEVITON MANUFACTURING, PASS & SEYMOUR, OR HUBBELL. PROVIDE BOX DEVICE PARTITION/DIVIDERS FOR MULTI-GANG BOXES FOR COMPLIANCE WITH NEC 404.9(B).
  - ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE-STOPPING AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS TO PRESENE OR RESTORE THE FIRE-RESISTANCE RATING. SEAL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLY SPECIFIC TO THIS PROJECT.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI RECEPTACLES IN KITCHENS, RESTROOMS, OUTDOORS, AND IN SHOP AREAS AS REQUIRED BY NEC. REFRIGERATORS AND WATER COOLERS MUST HAVE A DEDICATED GFCI BREAKER. EACH OUTDOOR HVAC UNIT MUST HAVE A GFCI RECEPTACLE



ANSI A117.1 HIGH SIDE REACH DETAIL-NO SCALE 6

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4/18/2022

**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NC

JOB NUMBER  
 22223  
 DRAWN BY  
 REW  
 DATE  
 04/18/2022  
 REVISIONS

SHEET NUMBER  
**E2**

PANEL A								
CKT	LOAD	BKR	LOAD		LOAD	CKT		
			KVA	PH				
1					AUTOMATIC DOOR	2		
3	RTU-1	125/3	14.87	A	0.10	20/1	TELEPHONE BOARD/BUZZER	4
5			14.87	C	0.18	20/1	EMERGENCY MANAGEMENT	6
7	RTU-2	125/3	14.87	A	0.18	20/1	OUTDOOR HVAC RECEPT.	8
9			6.35	B	0.00	20/1	SPARE	10
11			14.87	C	0.00	20/1	SPARE	12
13	RTU-3	60/3	6.35	A	0.10	20/1	EXHAUST FAN	14
15			6.35	B	0.10	20/1	EXHAUST FAN	16
17			6.35	C	0.50	20/1	INTERFACE EQUIP.	18
19	IRRIGATION CONTROL PANEL RECEPT.	20/1	0.18	A	0.50	20/1	VSAT DATA HUB EQUIPMENT	20
21	HOT BOX CIRCUIT*	20/1	0.50	B	0.96	20/1	CCTV EQUIP.	22
23	SHOW WINDOW	20/1	0.36	C	0.92	20/1	CLICK AND COLLECT FREEZER/COOLER	24
25	WATER HEATER	20/1	1.65	A	0.00	20/1	SPARE	26
27	SPARE	20/1	0.00	B	0.00	20/1	SPARE	28
29	DRINKING FOUNTAIN	20/1	0.50	C	0.00	20/1	SPARE	30
31	OUTDOOR ICE MERCHANDISER	20/1	1.20	A	0.00	20/1	SPARE	32
33	HIGH KIOSK	20/1	1.20	B	0.00	20/1	SPARE	34
35	SODA COOLERS	20/1	0.96	C	0.00	20/1	SPARE	36
37	DRINK COOLERS	20/1	1.60	A	0.00	20/1	SPARE	38
39	SODA COOLERS	20/1	1.60	B	0.00	20/1	SPARE	40
41	SPARE	20/1	0.00	C	0.00	20/1	SPARE	42
			KVA	PH	AMPS			
			41.6	A	347			
			40.8	B	340			
			39.5	C	329			
			VOLTAGE/PHASE				208Y/120V, 3P, 4W	
			BUS RATING				400A	
			MAIN CIRCUIT BREAKER RATING				400A	
			AIC RATING				22K	
			SERVICE ENTRANCE RATED				YES	
			ENCLOSURE				NEMA 1	
			MOUNTING				SURFACE	

\* VERIFY BREAKER SIZE PRIOR TO INSTALLATION  
NOTE: CIRCLED CIRCUITS REPRESENT BREAKER LOCKS

PANEL R								
CKT	LOAD	BKR	LOAD		LOAD	CKT		
			KVA	PH				
1	A-1-A REACH IN DAIRY CASE	15/2	1.30	A	3.90	40/2	A-2-A REACH IN FROZEN CASE	2
3			1.30	B	3.90			4
5	A-1-B REACH IN DAIRY CASE	15/2	1.30	C	3.20	40/2	A-2-B REACH IN FROZEN CASE	6
7			1.30	A	3.20			8
9	A-1-C REACH IN DAIRY CASE	15/2	1.30	B	3.20	40/2	A-2-C REACH IN FROZEN CASE	10
11			1.30	C	3.20			12
13	A-1-D REACH IN DAIRY CASE	15/2	1.30	A	2.60	25/2	A-3 REACH IN FROZEN CASE	14
15			1.30	B	2.60			16
17	72" COOLER	20/1	1.15	C	0.92	20/2	72" FREEZER	18
19	PRODUCE COOLER	20/1	1.15	A	0.92	20/2	PRODUCE COOLER	20
21			1.30	B	1.66			22
23	COOLER	15/2	1.30	C	1.66	20/2	PRODUCE COOLER	24
25	SPARE	20/1	0.00	A	0.00	20/1	SPARE	26
27	SPARE	20/1	0.00	B	0.00	20/1	SPARE	28
29	SPARE	20/1	0.00	C	0.00	20/1	SPARE	30
31	SPARE	20/1	0.00	A	0.00	20/1	SPARE	32
33	SPARE	20/1	0.00	B	0.36	20/1	SERVICE RECEPT. ON ROOF	34
35	SPARE	20/1	0.00	C	0.00	20/1	SPARE	36
37	SPARE	20/1	0.00	A	0.00	20/1	SPARE	38
39	SPARE	20/1	0.00	B	0.00	20/1	SPARE	40
41	SPARE	20/1	0.00	C	0.00	20/1	SPARE	42
			KVA	PH	AMPS			
			15.7	A	131			
			16.9	B	141			
			14.0	C	117			
			VOLTAGE/PHASE				208Y/120V, 3P, 4W	
			BUS RATING				200A	
			MAIN CIRCUIT BREAKER RATING				200A	
			AIC RATING				22K	
			SERVICE ENTRANCE RATED				YES	
			ENCLOSURE				NEMA 1	
			MOUNTING				SURFACE	

NOTE: CIRCLED CIRCUITS REPRESENT BREAKER LOCKS

PANEL B								
CKT	LOAD	BKR	LOAD		LOAD	CKT		
			KVA	PH				
1	NIGHT LIGHTS	20/1	0.18	A	0.00	20/1	A-2-A REACH IN FROZEN CASE	2
3	RECEIVING LIGHTS	20/1	0.14	B	0.50	20/1	SECURITY RECEPT.	4
5	70% SALES LIGHTS ROWS 5&6	20/1	0.63	C	0.54	20/1	OFFICE RECEPT.	6
7	70% SALES LIGHTS ROWS 8&9	20/1	0.27	A	0.54	20/1	BREAK ROOM RECEPT.	8
9	70% SALES LIGHTS ROWS 1&4	20/1	0.54	B	0.00	20/1	SPARE	10
11	70% SALES LIGHTS ROWS 8&9	20/1	0.45	C	0.00	20/1	SPARE	12
13	BREAK ROOM/OFFICE/RR LIGHTS	20/1	0.15	A	1.09	20/1	BULKHEAD RECEPT.	14
15	30% SALES LIGHTS ROWS 7&10	20/1	0.45	B	0.05	20/1	EMERGENCY EXIT LIGHTS	16
17	70% SALES LIGHTS ROWS 12&15	20/1	0.59	C	0.00	20/1	SPARE	18
19	SPARE	20/1	0.00	A	0.00	20/1	SPARE	20
21	SPARE	20/1	0.00	B	0.00	20/1	SPARE	22
23	BUILDING SIGN	20/1	0.90	C	0.00	20/1	SPARE	24
25	PYLON SIGN	20/1	0.90	A	0.00	20/1	SPARE	26
27	SITE LIGHTING	20/1	0.30	B	0.00	20/1	SPARE	28
29	SITE LIGHTING	20/1	1.40	C	1.20	20/1	POWER TERMINAL BROWN	30
31	SPARE	20/1	0.00	A	1.20	20/1	POWER TERMINAL BROWN	32
33	LEFT SIDE EXT. WALL LIGHTS	20/1	0.14	B	1.20	20/1	POWER TERMINAL GREEN	34
35	FRONT EXT. WALL/CANDY LIGHTS	20/1	0.58	C	1.20	20/1	POWER TERMINAL GREEN	36
37	SPARE	20/1	0.00	A	1.20	20/1	POWER TERMINAL GREEN	38
39	SPARE	20/1	0.00	B	1.20	20/1	POWER TERMINAL GREEN	40
41	EXTERIOR BUS/DOWN	20/1	0.05	C	1.20	20/1	POWER TERMINAL BROWN	42
43	SPARE	20/1	0.00	A	0.00	20/1	SPARE	44
45	SPARE	20/1	0.00	B	0.00	20/1	SPARE	46
47	SPARE	20/1	0.00	C	0.00	20/1	SPARE	48
49	SPARE	20/1	0.00	A	0.00	20/1	SPARE	50
51	SPARE	20/1	0.00	B	0.18	20/1	DISPLAY LIGHT	52
53	SPARE	20/1	0.00	C	0.85	20/1	GATORADE	54
			KVA	PH	AMPS			
			5.5	A	46			
			4.7	B	39			
			9.6	C	80			
			VOLTAGE/PHASE				208Y/120V, 3P, 4W	
			BUS RATING				200A	
			MAIN CIRCUIT BREAKER RATING				200A	
			AIC RATING				22K	
			SERVICE ENTRANCE RATED				YES	
			ENCLOSURE				NEMA 1	
			MOUNTING				SURFACE	

NOTE: CIRCLED CIRCUITS REPRESENT BREAKER LOCKS

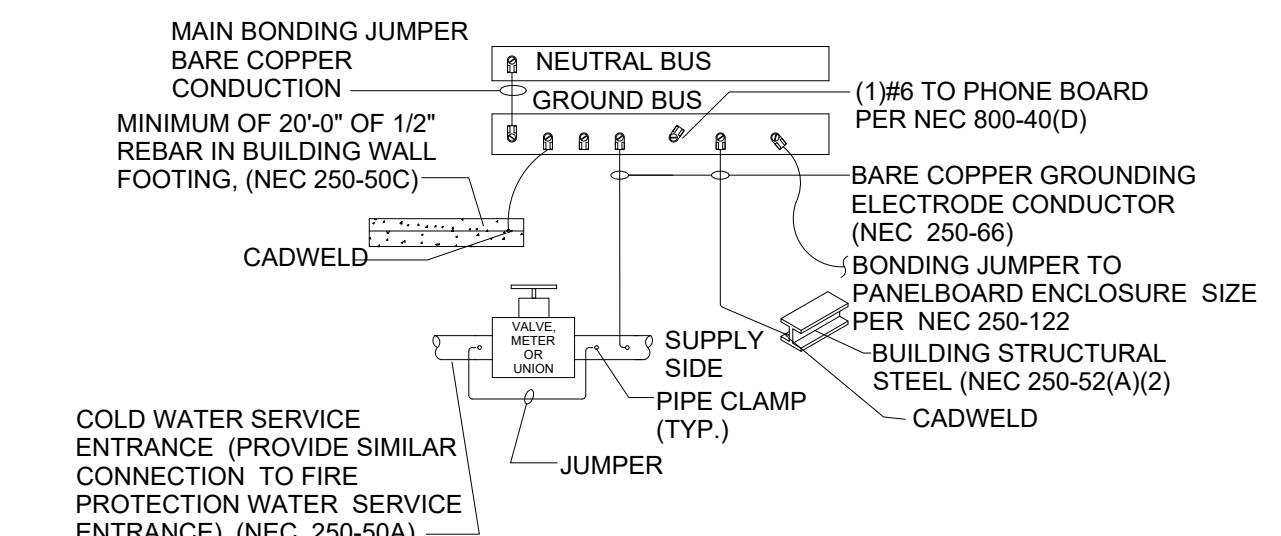
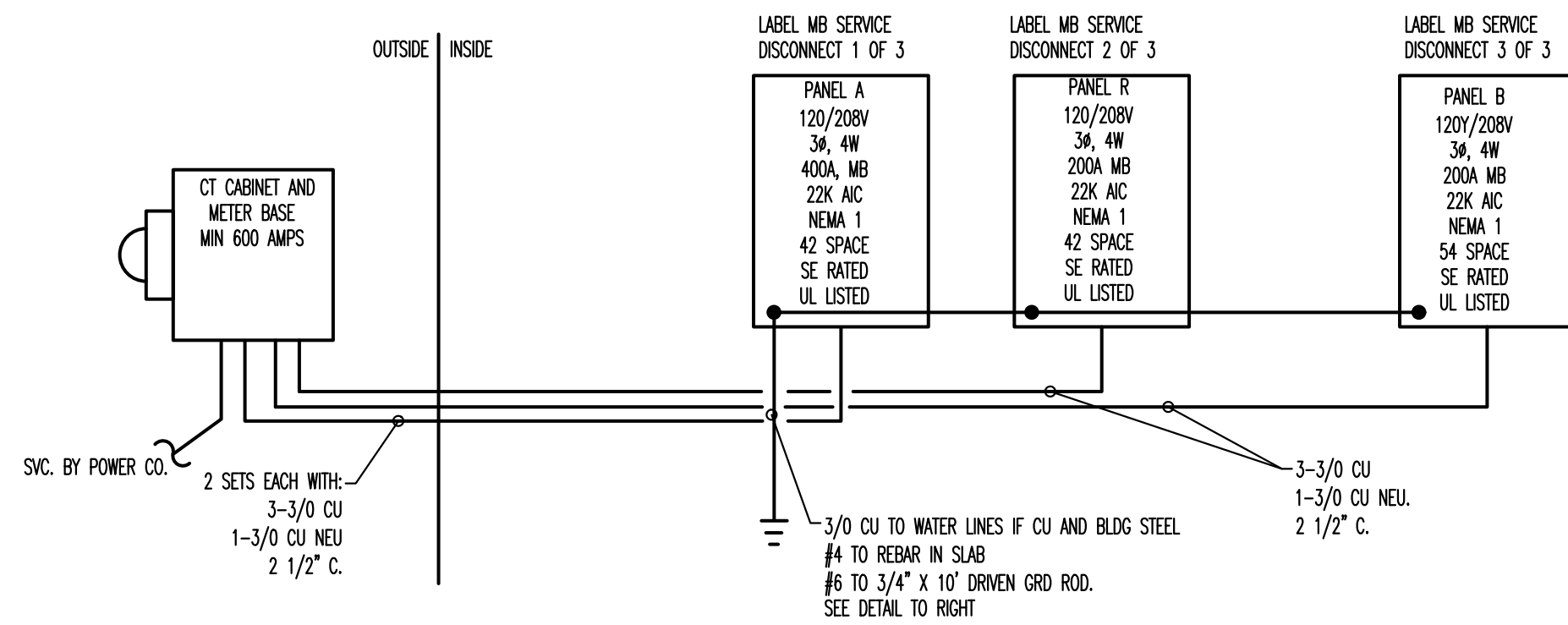
EQUIPMENT CONNECTION SCHEDULE (SEE SHEET E1.2 FOR COOLERS/FREEZERS)											
SYMBOL	DESCRIPTION	FURN. BY	KVA	VOLT/PH	MCA	MDDP	DISC	AWG	EGG	COND	NOTES
RTU 1-2	10 TON ROOF TOP UNITS	M. C.	44.98	208/3	124.0	125	200	#1	#6	2"	1, 2, 3
RTU-3	3 TON ROOF TOP UNITS	M. C.	17.63	208/3	49.0	50	60	#8	#10	1"	1, 2, 3
P-11	WATER HEATERS	P. C.	1.65	115/1	13	20	30	#12	#12	3/4"	1, 2, 3

- TABLE NOTES:
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.
  - PROVIDE NEUTRALS ON AS REQUIRED BASIS, FIELD VERIFY.
  - ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE. SUBMIT SHOP DRAWINGS. BUSSMAN FRN-R (-AMP) IS SPECIFIED.

NEC ELECTRIC DEMAND SUMMARY 208Y/120V, 3P, 4W							
EQUIPMENT	DEMAND FACTOR	KVA			LOAD KVA	NEC REFERENCE	NOTES/CALCULATIONS
		A	B	C			
LIGHTING	125%	11.01	11.01	11.01	33.03	220.12	8812SF X 3VA/SF X 1.25
LIGHTING	125%	0.14	0.14	0.14	0.42	220.12	1300SF X 25VA/SF X 1.25
RECEPTACLES < 10 KVA	100%	0.78	0.78	0.78	2.34	220.44	
RECEPTACLES > 10 KVA	50%	0.00	0.00	0.00	0.00	220.44	
HVAC	100%	36.09	36.09	36.09	108.27	--	BASED ON MCA
WATER HEATER	125%	1.65	0.00	0.00	1.65	422.13	STORAGE TANK <120 GAL @ 125%
SHOW WINDOW	100%	1.40	1.40	1.40	4.20	220.43(A)	21 FT X 200 WVA/SF
SIGN	100%	0.00	0.90	0.90	1.80	220.14(F)	
REFRIGERATION	100%	17.30	18.50	15.60	51.40	--	
DEMAND KVA PER PHASE		68.37	68.82	65.92			
DEMAND AMPS PER PHASE		570	573	549			

THE CALCULATED LIGHTING LOAD EXCEEDS THE CONNECTED LIGHTING LOAD.

PANEL SCHEDULES AND NEC LOAD SUMMARY 1



NOTE: ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250-50 OF THE NATIONAL ELECTRICAL CODE.

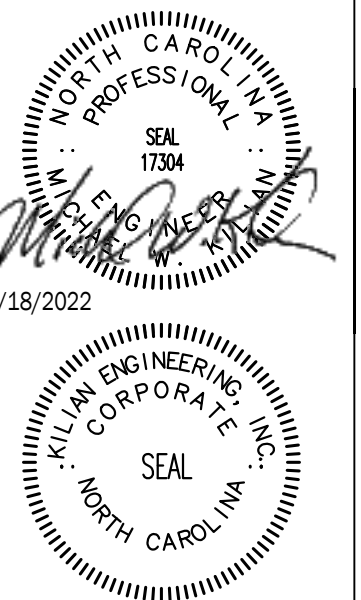
GROUNDING DETAIL - NO SCALE 3

POWER RISER DIAGRAM - NO SCALE 2

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**DOLLAR GENERAL**  
STORE # 23680  
MAMERS ROAD  
LILLINGTON, NC

JOB NUMBER  
22223  
DRAWN BY  
REW  
DATE  
04/18/2022  
REVISIONS

SHEET NUMBER

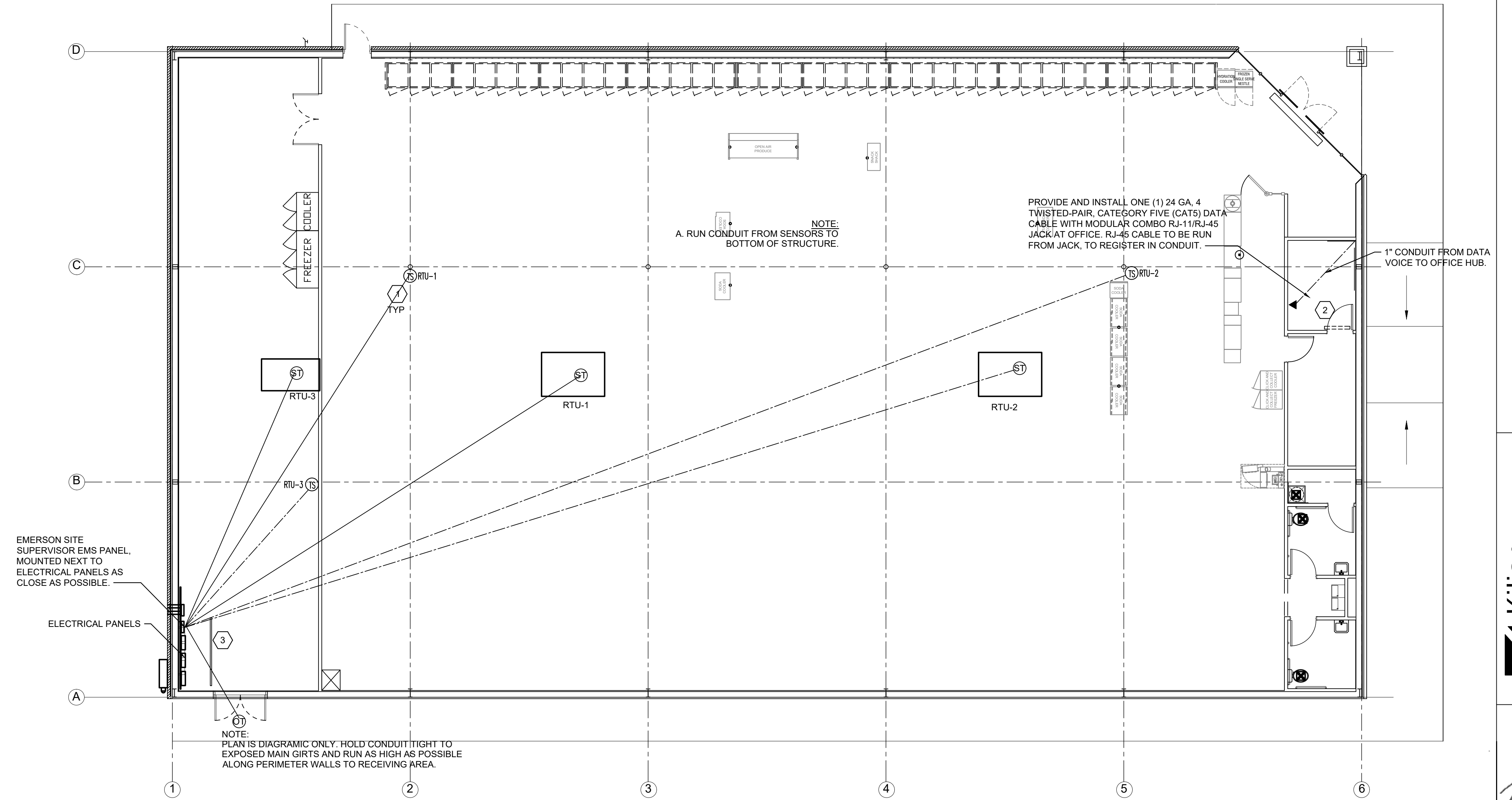
**E3**

### GENERAL NOTES

- A. REFER TO E1 FOR GENERAL CONTRACTOR RESPONSIBILITIES, E.C. MAY USE CABLE TRAY FOR LOW VOLTAGE CABLES, SEE 2/E2.
- B. RUN CONDUIT FROM SENSORS TO BOTTOM OF STRUCTURE.
- C. REFRIGERATION UNITS TO BE CONNECTED TO EMS PANEL BY DOLLAR GENERAL REFRIGERATION CONTRACTOR.

### SENSOR PLAN KEYED NOTES

1. ALWAYS INSTALL THESE SENSORS AT 8'-0" AFF IF ADDITIONAL HVAC UNITS ARE USED, ADD ADDITIONAL TEMPERATURE SENSORS "TS".
2. PHONE LINE #1 - TWO RJ-11 PORTS. ONE (1) LOCATED IN OFFICE W/RJ-45 DATA JACK COMBO AND ONE (1) AT REGISTER. 24 GA. CAT 5, 4-PAIR TWISTED WIRE ONLY. USE BLUE AND BLUE & WHITE WIRES. HOOK TO LINE #1 TERMINAL IN RJ-11 JACK EACH PHONE JACK TO HAVE DEDICATED. SEPARATE HOME RUN TO DMARC. LABEL AS "PHONE" AT THE DESTINATION AND AT DMARC. PHONE COMPANY PROVIDES FINAL HOOK UP TO DMARC. ONLY PHONE LINE #2 - RJ-11 PHONE JACK SUPPLIED AND WIRED BY CONTRACTOR.
3. EMS REFRIGERATION PANEL CX E2 400. PANEL BY OTHERS. CONNECTION FROM THIS PANEL TO HVAC AND LIGHTING PANEL BY OTHERS. ELECTRICAL CONTRACTOR TO RUN AN EMPTY 1-1/2" C. WITH PULL ROPE BETWEEN THE TWO PANELS.



EMS LOW VOLTAGE PLAN - SCALE 1/8"=1' 1

### EMERSON CONTACT

- A. PLEASE CONTACT EMERSON FOR FULL DETAILS.
- B. CONTACT TONY VERTUCA - NATIONAL ACCOUNT EXECUTIVE (404)824-9389. Tony.Vertuca@Emerson.com

### EMS GENERAL NOTES

1. EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & QTY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING. EMS SYSTEMS INSTALLATION GUIDE WITH PHOTOS IS AVAILABLE ON NATIONAL ACCOUNT WEBSITE. ALL QUESTIONS PERTAINING TO THE EMS PANEL, SYSTEM INSTALLATION & SETUP SHOULD BE DIRECTED TO EMERSON'S DOLLAR GENERAL SUPPORT TEAM AT 770-425-2724.
2. ALL SIGN & LIGHTING CIRCUITS MUST BE FED THROUGH THE DESIGNATED CONTACTORS AS NOTED ON THIS PAGE.
3. ALL LOW VOLTAGE HVAC & DOOR SENSORS MUST BE CONNECTED TO THE PROPER TERMINAL. 24 GA. SHIELDED (SHIELD MUST BE GROUNDED) CABLE. BELDEN #8641. 2 CONDUCTOR WIRE OR ITS EQUIVALENT IS REQUIRED.
4. COOLER & FREEZER HOME RUNS WILL BE TERMINATED AT ALL POINTS BY DOLLAR GENERAL REFRIGERATION DEPARTMENT.

### TESTING NOTES

TESTING OF HVAC UNITS THRU EMS PANEL IS ACCOMPLISHED BY SIMPLY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR (USING A BLOW DRYER OR ELECTRONIC EQUIPMENT DUSTER, AEROSOL) AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE HOME BUTTON TO RETURN TO THE MAIN SCREEN.

### CONTROL PANEL NOTES

1. EMS SYSTEM SHOULD BE TESTED FOR HVAC OPERATION, INTERIOR LIGHTING, EXTERIOR LIGHTING AND SIGN LIGHTING PRIOR TO CONTRACTOR'S ELECTRICAL POSSESSION DATE. USE OUTSIDE LIGHT AND SIGN LIGHT OVERRIDE FOR EXTERIOR TESTING.

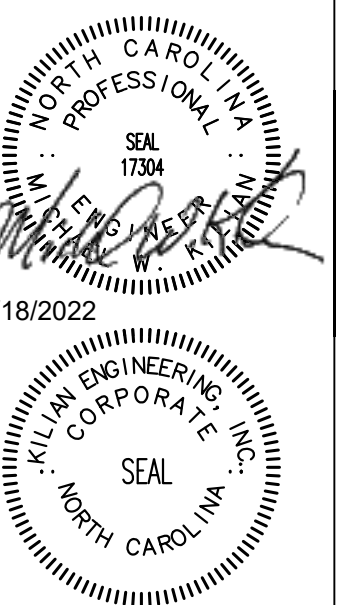
### DEVICE SCHEDULE

SYMB	DESCRIPTION	CABLE TYPE	SUPPLIER	INSTALLER	NOTES
OT	OUTDOOR AIR TEMP MOUNTED 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER RECEIVING ENTRY
ST	SUPPLY TEMP (501-1121) IN SUPPLY DUCT	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT
TS	TEMP SPACE SENSOR (809-6590) 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT ZONE
⊙	RJ-11/RJ-45 DATA JACK PHONE COMBO	CAT-5 DATA CABLE (24AWG, 4 TWISTED PAIR)	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) AT OFFICE COMPUTER CART
\$m	MOTION SENSOR SWITCH	LEVITON EZ-FIND ODS-10-IDW	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) PER RESTROOM (1) PER BREAK ROOM (1) PER OFFICE

ISSUED FROM:  
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**DOLLAR GENERAL**  
 STORE # 23680  
 MAMERS ROAD  
 LILLINGTON, NC

JOB NUMBER  
 22223  
 DRAWN BY  
 REW  
 DATE  
 04/18/2022  
 REVISIONS

SHEET NUMBER

**EMS1**