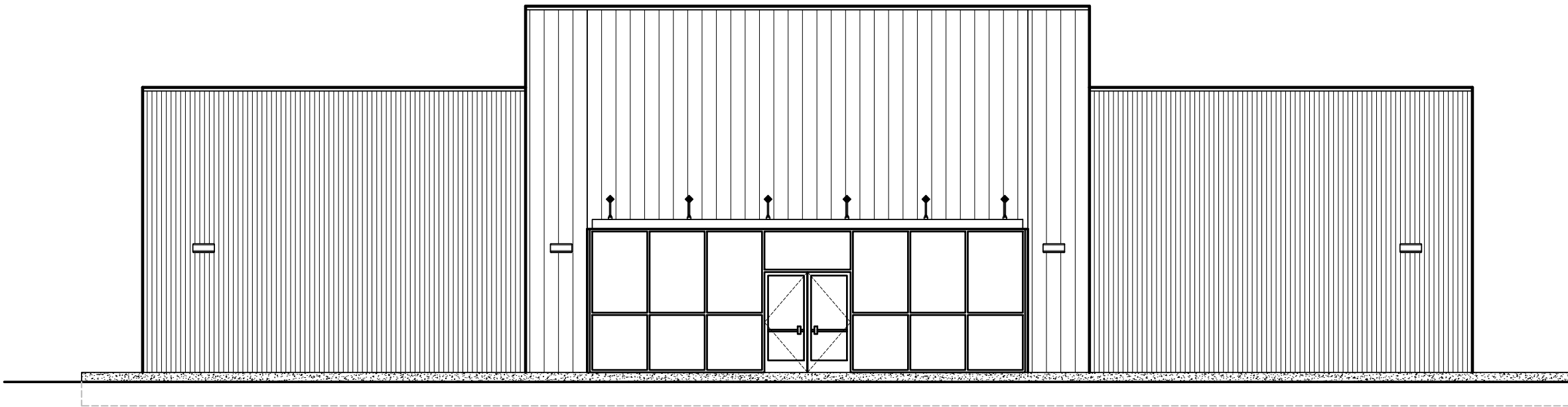


ENERGY CODES

ENERGY CODES AND THE APPLICATION OF ENERGY CODES VARY PROJECT SITE TO PROJECT SITE. IT IS THE RESPONSIBILITY OF THE DESIGNER OF RECORD TO DETERMINE THE IMPACT OF THE GOVERNING ENERGY CODES ON THE PROTOTYPICAL DESIGN INCLUDING THE IMPLEMENTATION OF AN ENTRY VESTIBULE WHEN REQUIRED.

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
A/C	AIR CONDITIONING
ARCH	ARCHITECT(URAL)
@	AT
BLK	BLOCK(ING)
BOT	BOTTOM
BLDG	BUILDING
CLG	CEILING
C	CENTER LINE
CIRC	CIRCUIT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	COUNTER
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EA	EACH
ELEV	ELEVATION
EQ	EQUAL
EQPT	EQUIPMENT
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
EIFS	EXTERIOR INUL. FINISH SYSTEM
FT(')	FEET, FOOT
FIN	FINISHED
FL	FLOOR(ING)
FD	FLOOR DRAIN
FLUR	FLUORESCENT
F.R.	FIRE RATED
F.E.	FIRE EXTINGUISHER
GWB	GYPSUM WALL BOARD
HDW	HARDWARE
HDWD	HARDWOOD
HVAC	HEATING/ VENTILATION/AIR CONDITIONING
HM	HOLLOW METAL
IN(")	INCH
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
LL	LANDLORD
MANUF	MANUFACTURE(R)
MFG	MANUFACTURE(R)
MECH	MECHANICAL
MISC	MISCELLANEOUS
M.R.	MOISTURE RESISTANT
MULL	MULLION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NUM	NUMBER
OFF	OFFICE
OC	ON CENTER(S)
OPNG	OPENING
OD	OPPOSITE HAND
OD	OUTSIDE DIAMETER
PNT	PAINT(ED)
P-LAM	PLASTIC LAMINATE
PLWD	PLYWOOD
POL	POLISHED
PROJ	PROJECT
P	PLATE
RE	REFERENCE
REF	REFRIGERATOR
REM	REMOVE(D)ABLE
REQ'D	REQUIRED
REV	REVISION(S) REVISED
RM	ROOM
RO	ROUGH OPENING
RD	ROUND
SCH	SCHEDULE
SEC	SECTION
SHT	SHEET
SIM	SIMILAR
SC	SOLID CORE
SPEC	SPECIFICATION(S)
SS	STAINLESS STEEL
STO	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
TEL	TELEPHONE
TYP	TYPICAL
THRU	THROUGH
VCT	VINYL COMPOSITION TILE
VEST	VESTIBULE
W/	WITH
W/O	WITHOUT
WD	WOOD
WDB	WOOD BASE



FAMILY DOLLAR STORES, INC.

SMALL MARKET PROTOTYPE 6A

10,500 SF

TENANT VENDORS:		PHONE NUMBER/EMAIL:	
HVAC UNITS:	CARRIER YORK	315-432-7942 405-310-5860	DEBBIE JOBIN JASON BARRETT EMAIL: DEBBIE.JOBIN@CARRIER.UTC.COM EMAIL: jason.1barrett@dc.com
SALES FLOOR DOOR & FRAME:	COOK & BOARDMAN	757-873-3979	JILL BANDMANN EMAIL: J.BANDMANN@COOKANDBOARDMAN.COM
DOORS, FRAMES, CASED OPNGS. & HRDWR:	COOK & BOARDMAN	757-873-3979	JILL BANDMANN EMAIL: J.BANDMANN@COOKANDBOARDMAN.COM
INT. & EXT. LIGHTS, EXIT SIGNS & EM LIGHTS:	NATIONAL ENERGY & LIGHT, INC.	603-718-1639	BRIDGETTE FOURNIER EMAIL: BFOURNIER@NELCOMPANY.COM
PLUMBING FIXTURES (TOILETS/LAVATORIES, MOP SINK, WATER FOUNTAIN, WATER HEATER, STOPS, DRAINS, & ACCESSORIES.)	HAINES, JONES & CADBURY	800-459-7099	BARRY BRYANT EMAIL: BARRY.BRYANT@HJCN.COM
INTERIOR AND EXTERIOR PAINT:	BENJAMIN MOORE:	201-783-7658 MICHAEL ECKE EMAIL: MICHAEL.ECKE@BENJAMINMOORE.COM	HOW TO ORDER YOUR PAINT: GENERAL CONTRACTORS PLACE ORDERS THROUGH THE BENJAMIN MOORE NATIONAL ACCOUNTS ORDER DEPARTMENT: TEL: 877-623-8484, FAX: 862-432-4362, EMAIL: CDP@BENJAMINMOORE.COM PLEASE PROVIDE THE FOLLOWING INFORMATION WHEN ORDERING FAMILY DOLLAR STORE LOCATION, PAINT SELECTION, PREFERRED B.M. STORE (IF CONTRACTOR HAS ONE), INDICATE STORE DELIVERY OR PICK-UP BY CONTRACTOR FROM B.M. STORE (DELIVERY FREE WITH 4 GAL. MIN.)
FIRE MONITORING:	COMMERCIAL FIRE, INC.	800-241-1277 EXT 282	TOM VANDERVENTER EMAIL: TOM.VANDERVENTER@COMMERCIALFIRE.COM
ROLL DOWN GATES (IF REQUIRED BY FDS):	CORNELL	800-882-6773 EXT 590	DAN BRODA EMAIL: DBRODA@CORNELLSTOREFRONTS.COM
AUTOMATIC SLIDING ENTRY DOOR:	TORMAX TECHNOLOGIES INC.	210-447-1148	EMAIL: FAMILYDOLLAR@TORMAXUSA.COM
METAL BUILDING:	N.C.I. BUILDING SYSTEMS V.P. BUILDINGS	443-309-4068 MIKE BETZ 901-568-4537 DAVID ENGLISH EMAIL: MIKEBETZ@NCIGROUP.COM EMAIL: DENGUSH@VP.COM	
CONSTRUCTION CAMERAS	OXBLUE CORPORATION	404-554-1461	J.P. SCHAFF
STOREFRONT WALL SYSTEM:	KAWNEER OR VISTAWALL (OLD CASTLE)	877-767-9107 OR 800-869-4567	
SITE LIGHTING CALCULATIONS:	NATIONAL ENERGY & LIGHT, INC.	603-718-1639	BRIDGETTE FOURNIER EMAIL: BFOURNIER@NELCOMPANY.COM

JURISDICTION AUTHORITY

CITY OF CENTRE, AL - BUILDING DEPARTMENT

ADOPTED CODES

BUILDING CODE:	INTERNATIONAL BUILDING CODE, 2015 ED.
ELECTRICAL:	2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
PLUMBING:	INTERNATIONAL PLUMBING CODE, 2015 ED.
MECHANICAL:	INTERNATIONAL MECHANICAL CODE, 2015 ED.
GAS:	INTERNATIONAL FUEL GAS CODE, 2015 ED.
ENERGY:	INTERNATIONAL ENERGY CONSERVATION CODE, 2006 ED.,
ACCESSIBILITY:	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

NEW BUILDING AND CONSTRUCTION DATA

OCCUPANCY CLASSIFICATION:	GROUP M - MERCANTILE
CONSTRUCTION TYPE:	TYPE IIB, NON-SPRINKLERED (IBC TABLE 600)
MAX HEIGHT AND AREA ALLOWABLE: (IBC TABLE 500)	HEIGHT = 55'-0" TOTAL AREA = 12,500 SQ FT
ACTUAL HEIGHT AND AREA:	HEIGHT = 15'-0" TOTAL AREA = 8,320 SQ FT
SEISMIC ZONE: C	

ARCHITECT:

INGENUITY DESIGNS, LLC
2572 WEST STATE ROAD #426
SUITE 2064
OVIDEO, FL 32765
ATTN: H. DANIEL HUTTER RA
PHONE: 321-244-0402

PME ENGINEER:

LIS
2572 WEST STATE ROAD #426 SUITE 2064
OVIDEO, FL 32765
ATTN: CLARK STILLWELL
PHONE: 321-244-0402

TENANT:

FAMILY DOLLAR STORES, INC.
500 VOLVO PARKWAY
CHESAPEAKE, VA 23320
ATTN: STEVEN McMAHON
PHONE: 757-321-5000
EMAIL: smcmahon@dollartree.com

DESIGNERS:

LIS, LLC
2572 WEST STATE ROAD #426
SUITE 2064
OVIDEO, FL 32765
ATTN: H. DANIEL HUTTER RA
PHONE: 321-244-0402

JURISDICTION:

CITY OF CENTRE BUILDING DEPT.
401 EAST MAIN STREET
CENTRE, AL 35960
PHONE: (256) 927-5222

PROJECT INFORMATION:

(BASED ON 2015 INTERNATIONAL BUILDING CODES)

BUILDING AREA (SQ. FT.) : 10,607 SF (GROSS), 10,500 SF (NET)**BUILDING HEIGHT :** 1 STORY EAVE HT @ 15'-0" A.F.F.
PARAPET HEIGHT A.F.F. +/- 23'-4"**OCCUPANCY TYPE :** NON-SEPARATED MIXED OCCUPANCY - GROUP M - MERCANTILE & GROUP S-1 - STORAGE
OCCUPANT LOAD : 1 PERSON PER 30 GROSS SQ. FT. FOR SALES AREA, 1 PERSON 100 GROSS SQ. FT. FOR OFFICE, 1 PERSON PER 300 GROSS SQ. FT. FOR MERCANTILE STORAGE**TYPE OF CONSTRUCTION:** II - B**ALLOWABLE AREA (SQ.FT.) :** 12,500 GROSS IBC 2012 TABLE 506.2,**ALLOWABLE HEIGHT :** 2 STORIES AND 55 FEET PER IBC 2012 TABLE 504.3 & 504.4**FIRE REQUIREMENTS :** NONE REQUIRED PER IBC 2012 TABLE 601, NOTE: VERIFY FIRE SEPARATION DISTANCES PER IBC 2012 TABLE 602.
NOTE: SALE SUPPORT AREA SEPARATION NOTE: THE BASIS OF THE PROTOTYPE DESIGN IS A NON-SEPARATED MIXED-USE OCCUPANCY. NOTE: THERE SHALL BE NO HIGH-PILED STORAGE AS DEFINED BY THE 2012 FPPC.**EXITING :** NUMBER OF EXITS PROVIDED: 3 (1 FROM SALES SUPPORT, 2 FROM OTHER AREAS)
PER A.D.A REQUIREMENTS - EACH EXIT SHALL PROVIDE A 32" OR GREATER CLEAR OPENING. MAXIMUM TRAVEL DISTANCE ALLOWED = 200 FT
MAXIMUM COMMON PATH OF TRAVEL = 75 FEET
MINIMUM EGRESS WIDTH PER IBC 2012 SECTION 1005.3 = 0.2 INCHES PER OCCUPANT
EXIT SIGNAGE TO COMPLY WITH IBC 2012 SECTION 1011**INTERIOR FINISHES:** EXITWAYS TO HAVE A CLASS "A" FLAME SPREAD CLASSIFICATION (MIN)
EXIT CORRIDORS TO HAVE A CLASS "B" FLAME SPREAD CLASSIFICATION (MIN)
OTHER ROOMS TO HAVE A CLASS "C" FLAME SPREAD CLASSIFICATION (MIN)**CLASS A = 0-25 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX**
CLASS B = 26-75 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX
CLASS C = 76-200 FLAME SPREAD INDEX; 0-450 SMOKE DEVELOPED INDEX

GENERAL FIRE PROTECTION NOTE

DEVELOPER IS RESPONSIBLE FOR VERIFICATION OF FIRE MARSHAL'S FIRE ALARM REQUIREMENTS, SYSTEM DESIGN/BUILD, APPROVAL BY FIRE MARSHAL AND INSTALLATION USING FIRE ALARMS PANELS SPECIFIED BELOW. ARRANGE FOR CONNECTION AND MONITORING BY VECTOR SECURITY ONLY. YOU MUST PROVIDE ONE OF THE ALARM PANELS LISTED BELOW SO THAT VECTOR SECURITY CAN MONITOR THE SYSTEM:

- SILENT KNIGHT 5700 - TO BE USED WHEN AHJ REQUIRES AN ADDRESSABLE PANEL.
- DMP XR100 - TO BE USED AS A BA/FA COMBO PANEL.
- BOSCH D7412GV2 - TO BE USED AS A BA/FA COMBO PANEL.
- MIRTONE FS100 4RD - TO BE USED AS A STANDARD FA PANEL

CONTACT VECTOR SECURITY AT 703-488-6100. ASK FOR THE DOLLAR TREE SUPPORT TEAM AT LEAST 7 DAYS PRIOR TO THE DATE YOU NEED THE PANEL DOWNLOADED SO WE CAN ASSIGN AN ACCOUNT MANAGER. YOU WILL NEED TO PROVIDE ZONE INFORMATION AND VERIFY CORRECT SIGNALS ARE BEING RECEIVED PRIOR TO INSPECTIONS BY THE FIRE MARSHAL.

WARRANTY REQUIREMENTS

VERIFY ALL BUILDING WARRANTY REQUIREMENTS ON A PROJECT SPECIFIC BASIS WITH FAMILY DOLLAR PRIOR TO SUBMITTING BID/PRICING.

CIVIL ENGINEER NOTE

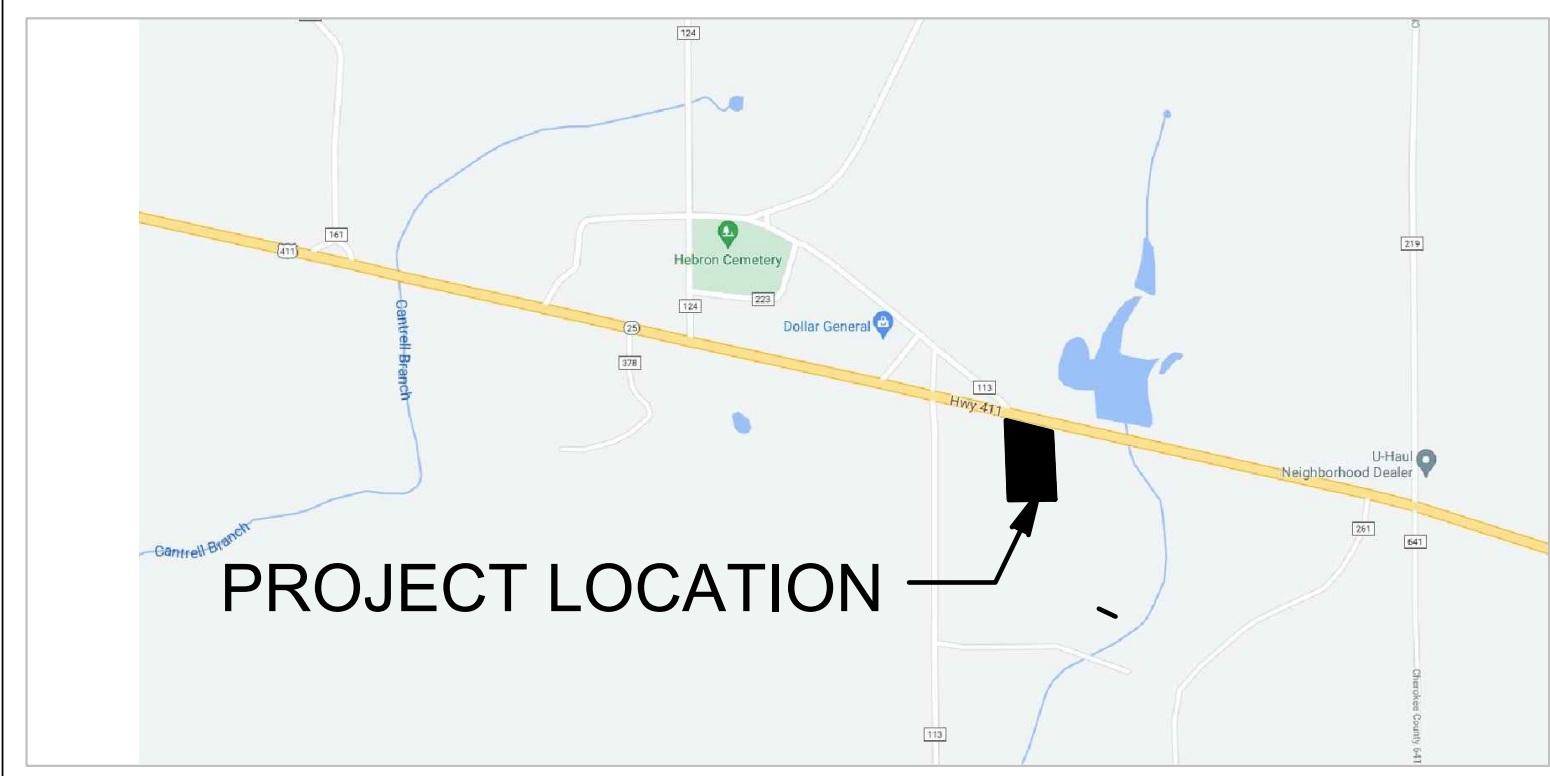
CIVIL ENGINEER OF RECORD FOR EACH LOCATION SHALL COORDINATE ALL EXTERIOR DOOR AND COOLER/HVAC EQUIPMENT LOCATIONS WITH ARCHITECT AND HAVE ALL UTILITIES COORDINATED BETWEEN THE ARCHITECT AND MEP ENGINEERS.

THE WORD "PROVIDE" MEANS TO FURNISH AND INSTALL

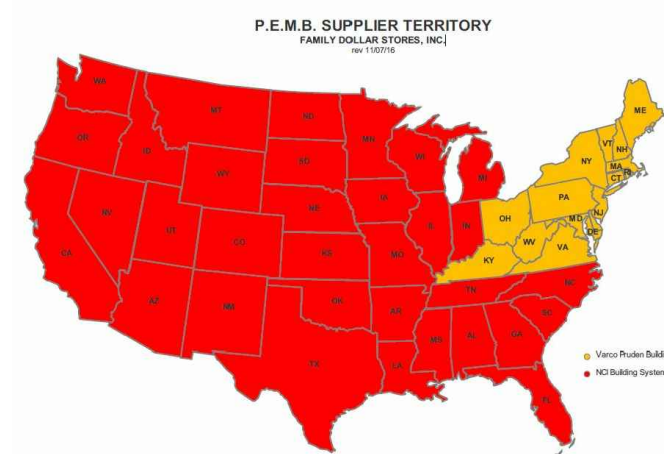
SHEET INDEX:

SHEET #		TITLE		SUBMISSION DATE	
GENERAL					
T-1V	COVER SHEET	X			
ARCHITECTURAL					
A-1.0V	FLOOR PLAN, DOOR SCHEDULE AND DETAILS	X			
A-1.1V	LIFE SAFETY, FINISH SCHEDULE AND NOTES	X			
A-1.2V	REFLECTED CEILING PLAN	X			
A-1.4V	ENLARGED FLOOR PLAN AND ADA DETAILS	X			
A-1.5V	INTERIOR ELEVATIONS	X			
A-2.0V	ELEVATIONS & SCHEDULES	X			
A-3.0V	STOREFRONT ELEVATIONS AND DETAILS	X			
A-3.1V	BUILDING SECTION	X			
A-4.0V	WALL SECTIONS	X			
A-4.1V	WALL SECTIONS	X			
MECHANICAL / PLUMBING					
P-1V	PLUMBING NOTES, SCHEDULE AND DETAILS	X			
P-2V	PLUMBING PLAN AND RISER DIAGRAMS	X			
M-1V	MECHANICAL DETAILS	X			
M-2V	MECHANICAL PLAN, SCHEDULES & NOTES	X			
ELECTRICAL					
E-1V	ELECTRICAL RISER AND PANEL SCHEDULE	X			
E-2V	ELECTRICAL POWER PLAN	X			
E-3V	ELECTRICAL LIGHTING PLAN	X			
E-4V	ELECTRICAL DETAILS	X			
E-5V	ELECTRICAL SITE PLAN	X			
E-6V	SITE LIGHTING PLAN	X			

VICINITY MAP



PROJECT LOCATION



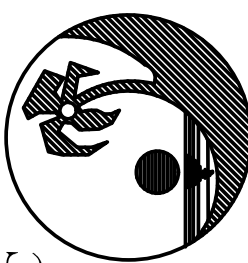
PEMB TERRITORY MAP

LIS
LAND INVESTMENT SERVICES, LLC
AR98913 CA NO 29005

2572 West State Road 426
Suite 2064, Oviedo, FL 32765
Phone: (321) 244-0402
Facsimile: (321) 244-3419

ARCHITECTURE
ENGINEERING

CA NO: 8853
21430 Palm Beach Blvd
Alva, FL 33920
Phone: (239) 693-9244
Facsimile: (239) 693-9629



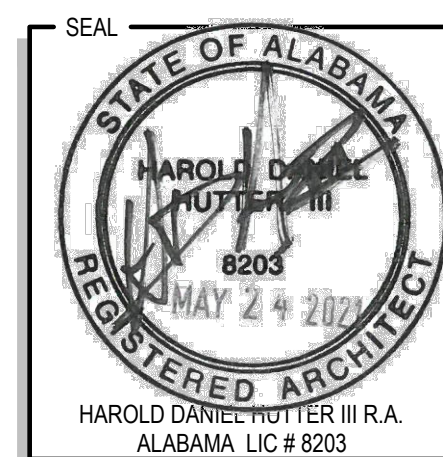
Ingenuity Designs, LLC
architecture & design
insight, innovate, illuminate

ARCHITECT / ENGINEER

Harold Daniel Hutter III
R.A., N.C.A.R.B.
2572 West State Road 426, Ste 2064,
Oviedo, FL 32765 Phone 321-244-0402

PERMAN ENGINEERING CO. LLC
ENGINEERS-CONTRACTORS-DEVELOPERS
2425 LUMBEE ROAD
RAINBOW CITY, AL 35960

FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA



RELEASE	DATE

PROJECT NO.
2021-056

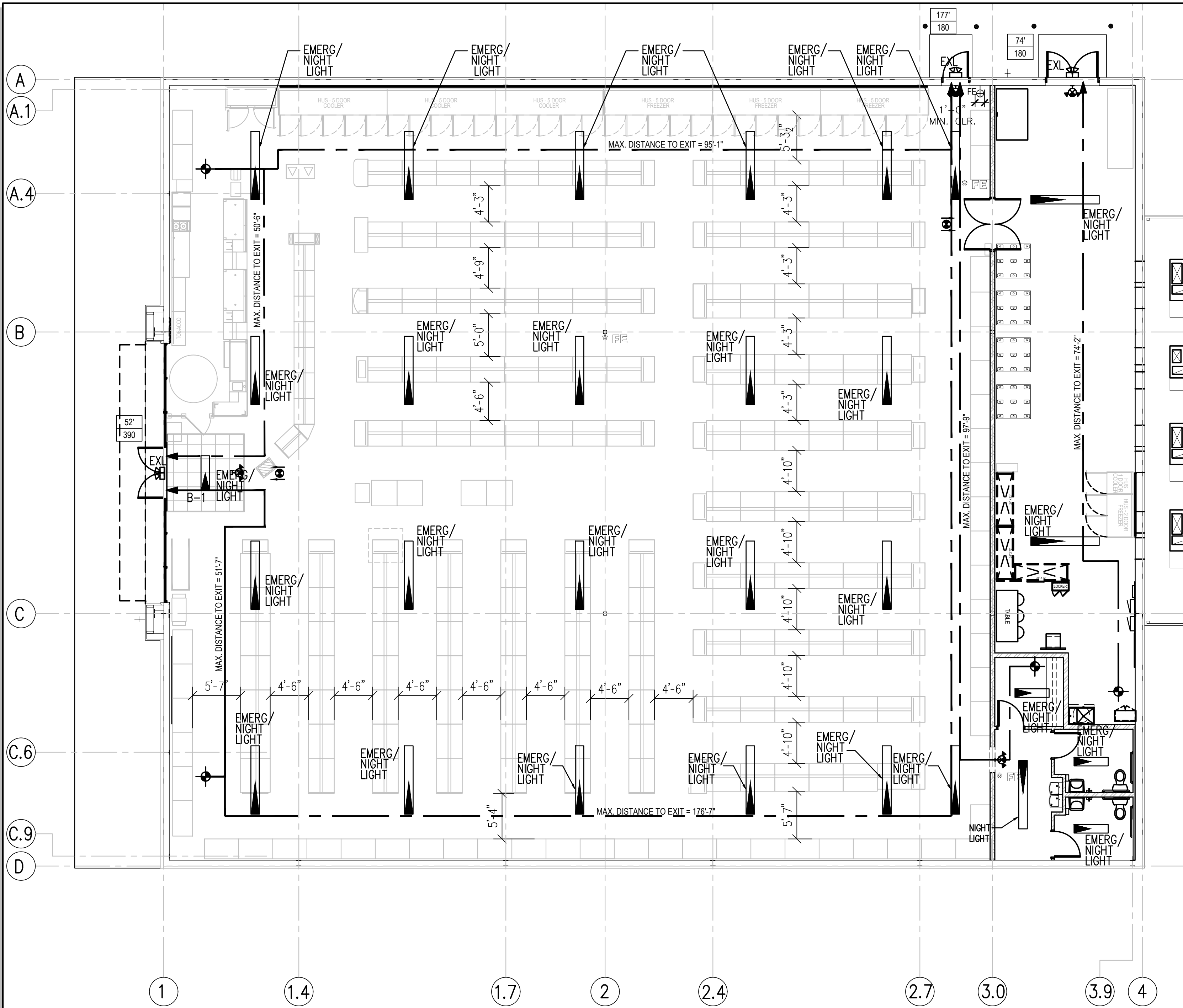
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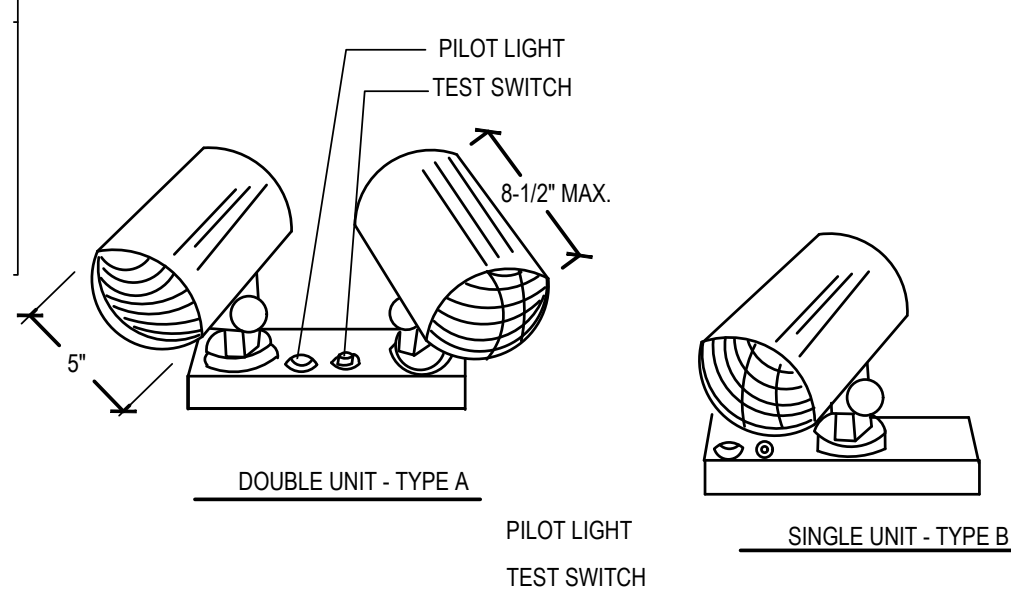
SHEET NO.

T-1V

LIS EXPRESSLY RESERVES ITS COPYRIGHT AND ALL OTHER PROPERTY RIGHTS TO THESE DOCUMENTS AND THEIR DESIGN. HENCE, THEY ARE NOT TO BE REPRODUCED.



1 LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"



4 Emergency Lighting Fixture
A102 SCALE: NTS

LUMINAIRE REQUIREMENTS

1. ALUMINUM FINISHED CHANNEL MOUNTING BASE WITH TEST SWITCH AND PILOT OR HIGH RATE INDICATING LIGHT.
2. CYLINDERS FOR LIGHTS AND BATTERY AND CHARGER SHALL BE PAINTED, MATTE WHITE AND SHALL BE FULLY ADJUSTABLE.
3. BATTERY SHALL BE MAINTENANCE FREE NICKEL CADMIUM WITH FULL 5 YEAR WARRANTY.
4. UNIT SHALL HAVE AUTOMATIC TWO RATE CHARGER.
5. SWITCHING AND CONTROLS - COMPLETELY SOLID STATE WITH AUTO TRANSFER AND LOW VOLTAGE CUT OFF. TEST SWITCH AND HIGH RATE INDICATING LIGHT.
6. 9 WATT TUNGSTEN HALOGEN LAMP.

OCCUPANT LOAD (2017 OBC TABLE 1004.1.2)

MERCANTILE OCCUPANCY (SQ FT AREA PER OCCUPANT) = 60 GROSS
TOTAL OCCUPANT LOAD = 9,308/60 = 155 OCCUPANTS

REQUIRED PLUMBING FIXTURES PER OBC 2017 SECTION 2902.1
155 OCCUPANTS DIVIDED BY 2 = 78 OCCUPANTS OF EACH SEX
PER TABLE 403.1
FIXTURES REQUIRED
FIXTURES PROVIDED

LITHONIA BWU EXIT LIGHT

FEATURES
LAMP TYPE: LED
MOUNTING: UNIVERSAL
SHIELDING: FLAT SHEET ACRYLIC
LETTERS: RED

NOM. DIMENSIONS: 289mmX200mmX44mm (11-3/8"W X 7-7/8"H X 1-3/4"D)

GENERAL DESCRIPTION
HOUSINGS: DIE-CAST ALUMINUM OR 20 GA. COLD ROLLED STEEL, HARDWARE
FINISH TO MATCH HOUSING FINISH. 152 mm (6") H. LETTERS WITH 19
mm (3/4") STROKE. DIRECTIONAL ARROWS AS REQUIRED

ELECTRICAL: 120 RE: ELECTRICAL DRAWINGS

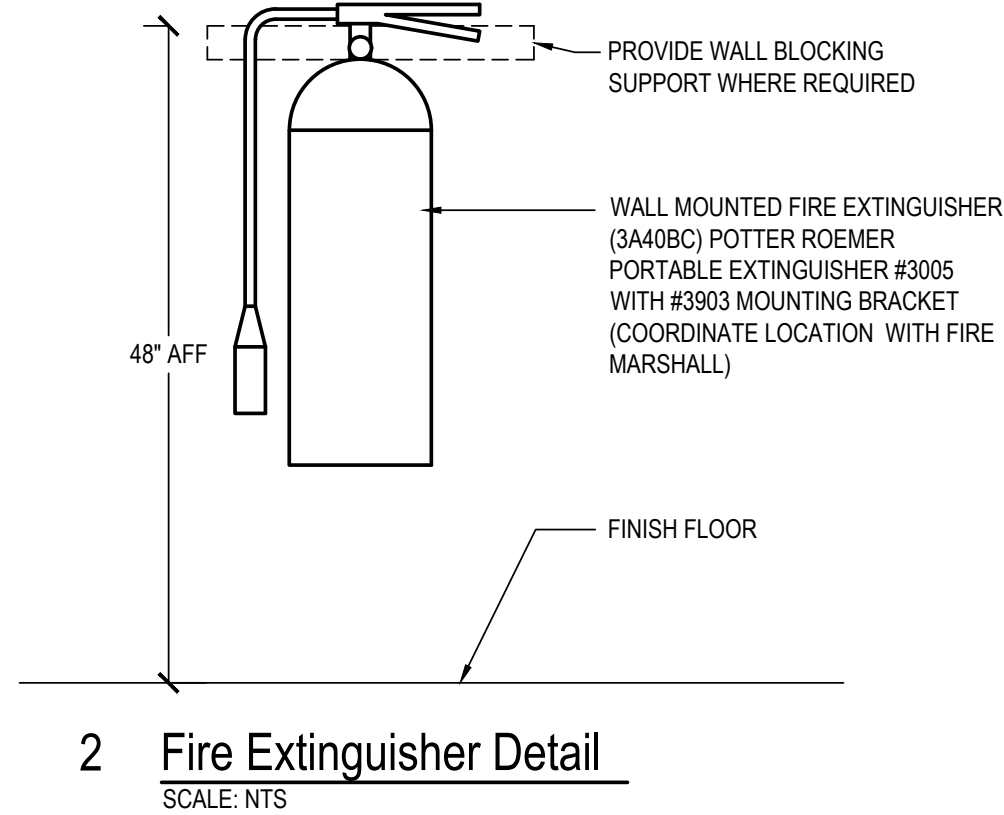
FINISH: WHITE

OTHER: MINIMUM BRIGHTNESS 20 CD/SQ METER ON FACE OF SIGN.

3 Exit Signage
SCALE: NTS



LEGEND	
SYMBOL	DESCRIPTION
	EXIT LIGHT
	FLUORESCENT FIXTURE W/ EMERGENCY LIGHTING BALLAST
	MAXIMUM EGRESS PATH
	FIRE EXTINGUISHER, WALL MOUNTED (F.E.) RE: NFPA
	MOST REMOTE POINT
	EGRESS DISTANCE (FEET) EGRESS CAPACITY (PEOPLE)



FINISH SCHEDULE						
ROOM #	SPACES	FLOORS	BASES	WALLS	CEILING	NOTES
101	SALES	CONCRETE READY FOR TENANTS FLOOR FINISH	--	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	ACT-1 AT 11'-10" AFF	
102	OFFICE	CONCRETE READY FOR TENANTS FLOOR FINISH	--	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	GWB AT 8'-0" AFF. PAINT-1	
103	HALLWAY	CONCRETE READY FOR TENANTS FLOOR FINISH	--	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	ACT-1 AT 8'-0" AFF	
104	TOILET	SHEET VINYL	SV-1	FRP-1 TO 8'-0" AFF	GWB AT 8'-0" AFF. PAINT 1	4
105	TOILET	SHEET VINYL	SV-1	FRP-1 TO 8'-0" AFF	GWB AT 8'-0" AFF. PAINT 1	4
106	STOCKROOM	CONCRETE READY FOR TENANTS FLOOR FINISH	--	GWB W/ LEVEL 4 FINISH READY FOR TENANTS PAINT	EXPOSED NO PAINT	1,2,3

FINISH NOTES

1. DO NOT PROVIDE SEAL CHEMS SPEC HARDENER (OR EQUIVALENT) ONTO CONCRETE FLOORS IN STOCKROOM THAT WILL RECEIVE CLEAR ACRYLIC SEALER.
2. EXTERIOR SIDE OF HOLLOW METAL DOORS AND FRAMES TO BE PRIMED & PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS SEMI-GLOSS, COLOR PER EXTERIOR FINISH SCHEDULE.
3. ELIASON DOORS TO BE FACTORY FINISHED PER DOOR SCHEDULE.
4. HOLLOW METAL FRAMES AND WOOD RESTROOM DOORS TO BE PRIMED & PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS SEMI-GLOSS, COLOR WHITE.

FINISHES

SHEET VINYL	SHEET VINYL: CLASSIC CORLON SERIES MANUFACTURED BY ARMSTRONG - CONNECTION CORLON "PORCELAIN" #88/24 OR EQUAL.
SV-1	SHEET VINYL BASE: INTEGRAL, 3/8" RADIUS, 6" HIGH COVED BASE W/ COVE STICK AND EXTRUDED ALUMINUM CAP TRIM.
FRP-1	INSTALL FRP (GLASBOARD # 85 - WHITE W/ PEBBLED EMBOSSED FINISH, BY CRANE COMPOSITES OR EQUAL) (FORMALLY KEMITE) TO 8'-0" A.F.F. ON ALL WALL SURFACES IN THE RESTROOMS. INSTALL FRP TO 8'-0" A.F.F. BEHIND THE MOP SINK AND WATER COOLER A MINIMUM OF 1 FT TO EACH SIDE. COMPLETE FRP W/ TRIP CAP ON TOP, SIDES, CORNERS AND JOINTS, INCLUDING CAULKING AS REQD. BY MFG. VERIFY LOCAL CODE FOR ADDITIONAL APPLICATION IF REQD.
ACT-1	2'-0" X 4'-0" SUSPENDED LAY-IN CEILING TILE BY ARMSTRONG "CORTEGA" SQUARE EDGE #769-COLOR WHITE IN WHITE METAL TEE GRID.
PAINT-1	(2 COATS) SUPER HIDE ZERO VOC LATEX INTERIOR SEMI-GLOSS #358 COLOR-WHITE

FRP NOTE:
INSTALL FRP (KEMITE - LASCOCBOARD #419 WHITE W/EMBOSSED FINISH OR EQUAL) 4'-0" A.F.F. ON ALL WALL SURFACES IN THE RESTROOMS. INSTALL FRP TO 4'-0" A.F.F. BEHIND THE MOP SINK AND WATER COOLER A MINIMUM OF 1 FT TO EACH SIDE. COMPLETE FRP W/ TRIP CAP ON TOP, SIDES, CORNERS, AND JOINTS, INCLUDING CAULKING AS REQ. BY MFG. VERIFY LOCAL CODE FOR ADDITIONAL APPLICATION IF REQ.

FIXTURE PLAN NOTE:
OBTAIN UPDATED DRAWING FROM FAMILY DOLLAR PROJECT MANAGER PRIOR TO ORDERING OR INSTALLING ANY SPECIAL ELECTRICAL EQUIPMENT AND PRIOR TO ORDERING OR INSTALLING ANY SALES FLOOR LIGHTING.

ACCESSIBILITY NOTE:
GENERAL CONTRACTOR IS ADVISED THAT IT IS THEIR RESPONSIBILITY TO INSURE THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH STATE AND LOCAL CODES AND THE AMERICAN'S WITH DISABILITY ACT. GC IS TO VERIFY THE COORDINATION OF THE VARIOUS DRAWINGS. IF CONFLICT OF INFORMATION IS FOUND, CONTACT THE PARTIES IN THE DISCREPANCY BEFORE PROCEEDING.

GENERAL NOTES:

SIGN FOR GROUND UP STORES



SMOKE FREE NOTE: PROVIDE SIGNAGE AT EVERY ENTRY POINT ON EXTERIOR WALL INTO THE BUILDING PER THE GROUND UP OR IN-LINE STORE TYPE ABOVE. SIGNS MUST BE 10"X10" IN SIZE. THE MATERIAL IS PREFERRED TO BE ALUMINUM. SIGNS MAY BE FOUND AT WWW.COMPLIANCE SIGNS.COM

CERTIFICATE OF OCCUPANCY

THE CONTRACTOR IS RESPONSIBLE FOR THE "CERTIFICATE OF OCCUPANCY" FOR THE BUILDING.

KNOX BOX NOTE:

IF A KNOX BOX ENTRY SYSTEM IS REQUIRED BY THE CODES GOVERNING THE CONSTRUCTION OF THE PROJECT, PROVIDE RECESSED KNOX BOX PROVIDED BY THE GC PRIOR TO THE COMPLETION OF THE PROJECT. LOCATE PER LOCAL CODE REQUIREMENTS. KNOX BOX CONTACT - 866-625-4563

DIMENSIONAL SUBMITTAL TO FAMILY DOLLAR:

DEVELOPER/GC/LANDLORD MUST USE THE FDS SUPPLIED FINAL "FLP" PLAN SHEET FOR THE PURPOSES OF DIMENSIONAL AS-BUILT SUBMITTAL TO FAMILY DOLLAR.

LIS ARCHITECTURE
ENGINEERING

LAND INVESTMENT SERVICES, LLC
AR98913 CA NO 29005

2572 West State Road 426
Suite 2084, Oviedo, FL 32765
Phone: (321) 244-9402
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21430 Palm Beach Blvd
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2425 LUMBEE ROAD
RAINBOW CITY, AL 35906

FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA

STATE OF ALABAMA
HAROLD DANIEL HUTTER III
8203
MAY 24 2024
REGISTERED ARCHITECT
HAROLD DANIEL HUTTER III R.A.
ALABAMA LIC # 8203

RELEASE	DATE

PROJECT NO.	2021-056
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ISSUE DATE	05-21-21
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DRAWN	CHECKED

SHEET NO.	A-1.1V
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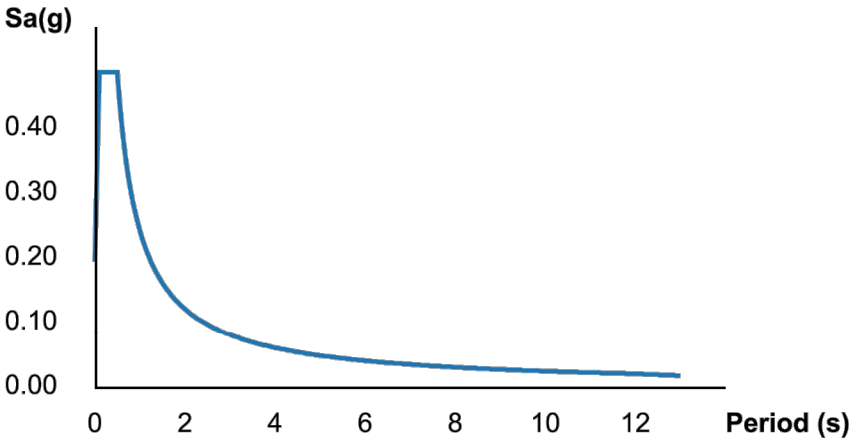
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Risk Category: II
Site Class: D

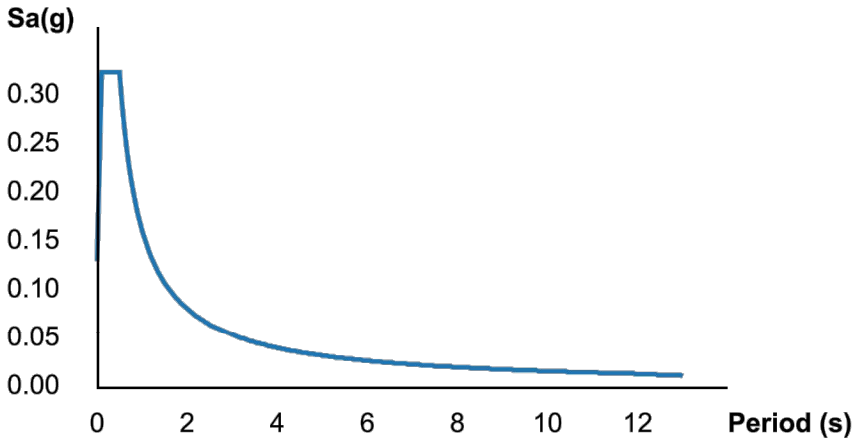
ATC Hazards by Location



MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S _S	0.313	MCE _R ground motion (period=0.2s)
S ₁	0.101	MCE _R ground motion (period=1.0s)
S _{MS}	0.486	Site-modified spectral acceleration value
S _{M1}	0.242	Site-modified spectral acceleration value
S _{DS}	0.324	Numeric seismic design value at 0.2s SA
S _{D1}	0.161	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	C	Seismic design category
F _a	1.549	Site amplification factor at 0.2s
F _v	2.398	Site amplification factor at 1.0s
CR _S	0.939	Coefficient of risk (0.2s)

<https://hazards.atcouncil.org/%23/#/seismic?lat=34.1054222&lng=-85.55085&address=>

1/2

5/18/2021 ATC Hazards by Location

CR ₁	0.91	Coefficient of risk (1.0s)
PGA	0.186	MCE _G peak ground acceleration
F _{PGA}	1.428	Site amplification factor at PGA
PGA _M	0.266	Site modified peak ground acceleration
T _L	12	Long-period transition period (s)
SsRT	0.313	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.334	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.101	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.111	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGA _d	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey [Seismic Design Web Services](#).

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BASIC CONNECTIONS, PERIMETER, AND LATERAL SPLAY BRACING
MINIMUM INTERSECTION STRENGTH LIMITS @ MT / CT(3)
VERTICAL HANGER WIRE 12-GAUGE @ 4" O.C.
CONNECTION DEVICE FROM VERTICAL WIRE TO THE STRUCTURE ABOVE MUST SUSTAIN MIN 100 LBS
MAIN TEE CLASSIFICATIONS
1 IN 6 MAX PLUMB OF VERTICAL HANGER WIRES(4)
PERIMETER VERTICAL HANGER WIRES NOT MORE THAN 8" FROM WALL
GRID END/WALL CLEARANCE
PERIMETER CLOSURE (MOLDING) WIDTH
GRID CONNECTION TO PERIMETER ATTACHED ON TWO ADJACENT WALLS
PERIMETER TEE ENDS TIED TOGETHER
HORIZONTAL RESTRAINT (SPLAY WIRES OR RIGID BRACING) WITHIN 2' OF INTERSECTION AND SPLAYED 90° APART AT 45° ANGLES
COMPRESSION POSTS (STRUTS) 12" O.C. IN BOTH DIRECTIONS, STARTING 6" FROM WALLS
SPLAY BRACING CONNECTION STRENGTH 200 LBS OR THE DESIGN LOAD, WHICHEVER IS GREATER
PARTITION ATTACHMENT
SEISMIC SEPARATION JOINT
RIGID BRACING FOR CEILING PLANE ELEVATION CHANGES

LIGHT FIXTURE ATTACHMENT
LIGHT FIXTURE (ALL TYPES) MECHANICALLY ATTACHED TO GRID NEC 410-16 (TWO PER FIXTURE UNLESS INDEPENDENTLY SUPPORTED)
SURFACE-MOUNTED FIXTURES ATTACHED TO GRID
PENDANT-HUNG FIXTURES DIRECTLY SUPPORTED FROM STRUCTURE WITH 9-GAUGE WIRE (OR APPROVED ALTERNATIVE)
RIGID LAY-IN OR CAN LIGHT FIXTURES
≤ 10 LBS - ONE WIRE TO STRUCTURE (MAY BE SLACK)
11 TO 56 LBS - TWO WIRES FROM HOUSING TO STRUCTURE (MAY BE SLACK)
≥ 57 LBS - SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED

SERVICE APPLICATIONS
AIR TERMINALS
≤ 20 LBS - POSITIVELY ATTACHED TO GRID
21 TO 56 LBS - POSITIVELY ATTACHED TO GRID AND TWO WIRES TO STRUCTURE (MAY BE SLACK)
≥ 57 LBS - DIRECTLY SUPPORTED TO STRUCTURE
SPRINKLER HEADS AND OTHER PENETRATION CLEARANCE
CABLE TRAYS AND ELECTRICAL CONDUIT INDEPENDENTLY SUPPORTED AND BRACED

FOOTNOTES:

- THESE NOTES REFERS TO CISCA INSTALLATION RECOMMENDATIONS FOR ZONES 0-2 VIA ASCE 7. MAX CEILING WEIGHT: 2.5 PSF.
- ALL USG DONN® BRAND CEILING SUSPENSION SYSTEMS MEET THESE REQUIREMENTS.
- PER ASTM C635.

REQUIREMENTS
60 LBS
REQUIRED
NOT REQUIRED
INTERMEDIATE- OR HEAVY-DUTY
REQUIRED
NOT REQUIRED UNLESS MOLDING < 7/8"
MIN 3/8"
MIN 7/8" (OR USE PERIMETER WIRES)
NOT PERMITTED
REQUIRED
NOT REQUIRED
NOT REQUIRED
NOT REQUIRED
ALLOWED ONLY IF CEILING IS ABLE TO MOVE Laterally
NOT REQUIRED
NOT REQUIRED

REQUIREMENTS
REQUIRED
NOT REQUIRED
REQUIRED

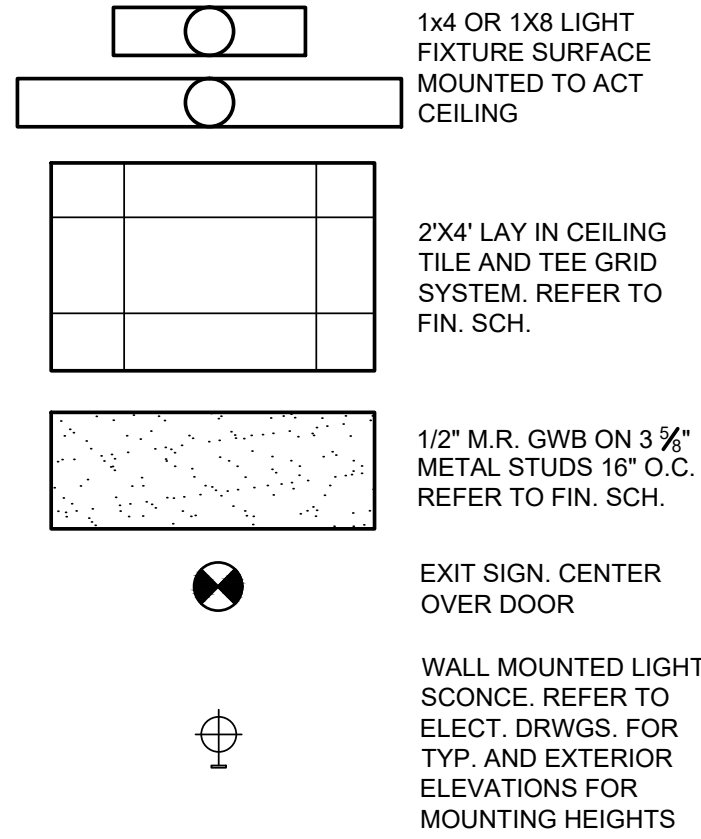
REQUIRED
REQUIRED
REQUIRED

REQUIREMENTS
REQUIRED
REQUIRED
REQUIRED
MIN 3/8" ON ALL SIDES
NOT REQUIRED

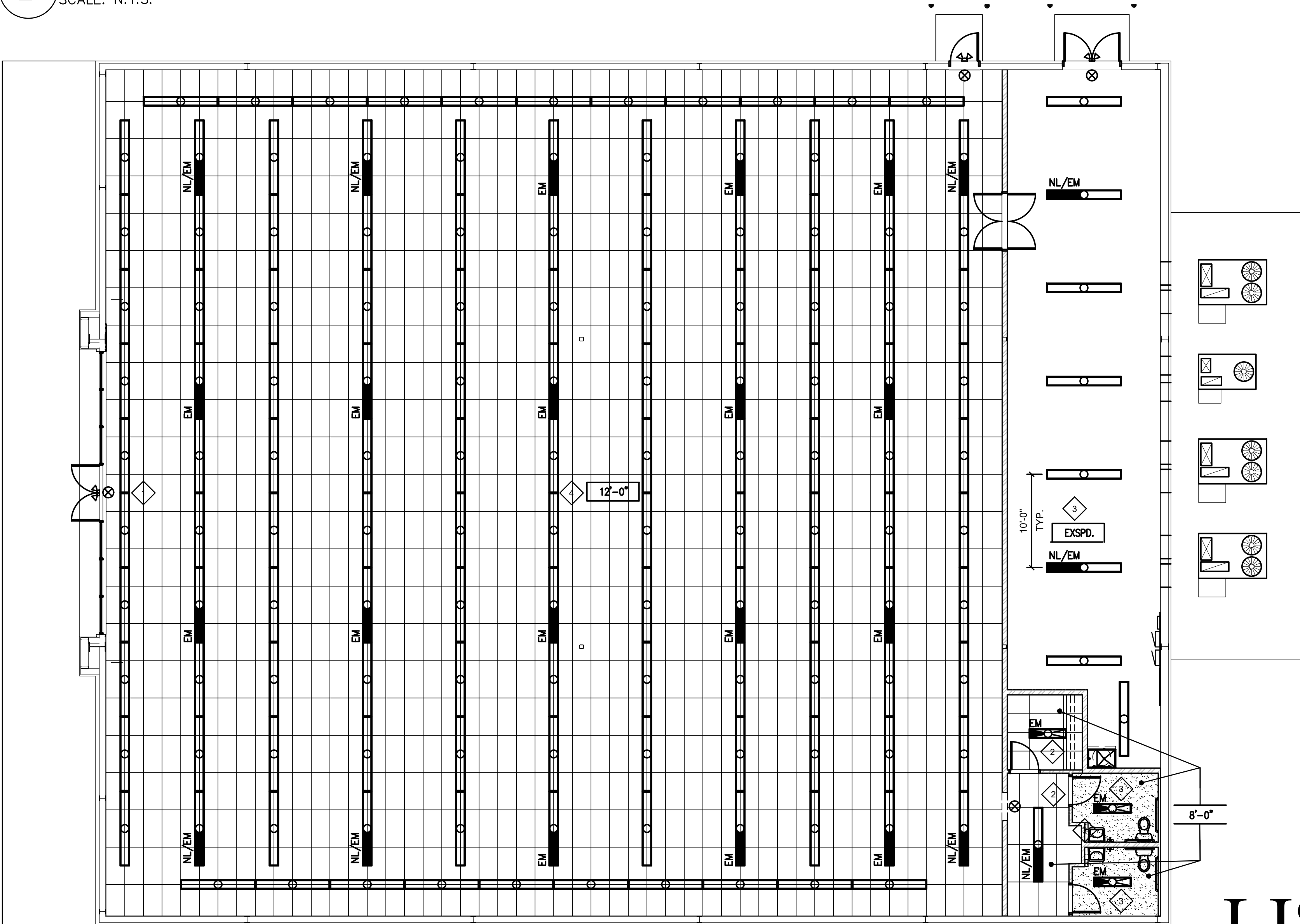
KEYED NOTES:

- 90X102-START 2'-0" GRID 2'-0" OFF FRONT WALL AND CENTER 4'-0" GRID ON ENTRY DOOR.
- CENTER GRID IN ROOM.
- CENTER LIGHTS IN ROOM.
- REFER TO ELECTRICAL LIGHTING PLAN FOR LIGHT LOCATIONS.

REFLECTED CEILING LEGEND



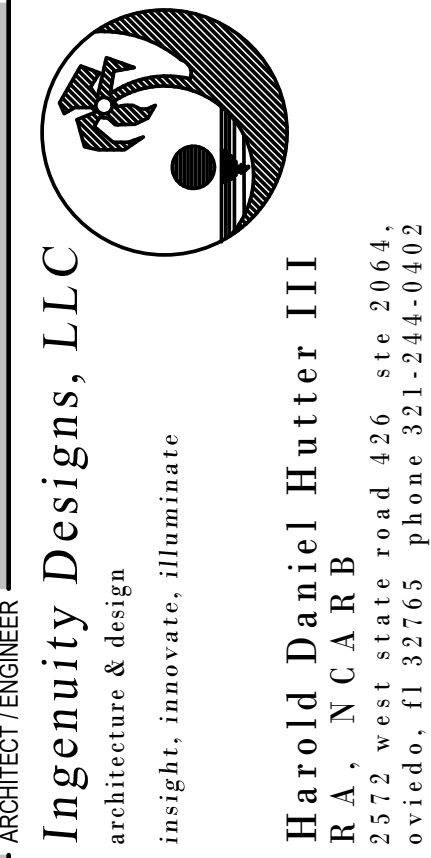
ACOUSTIC CLG TILE NOTES IN SEISMIC AREA 'C'
SCALE: N.T.S.



REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

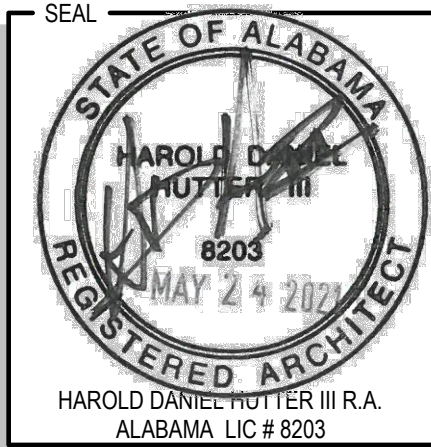
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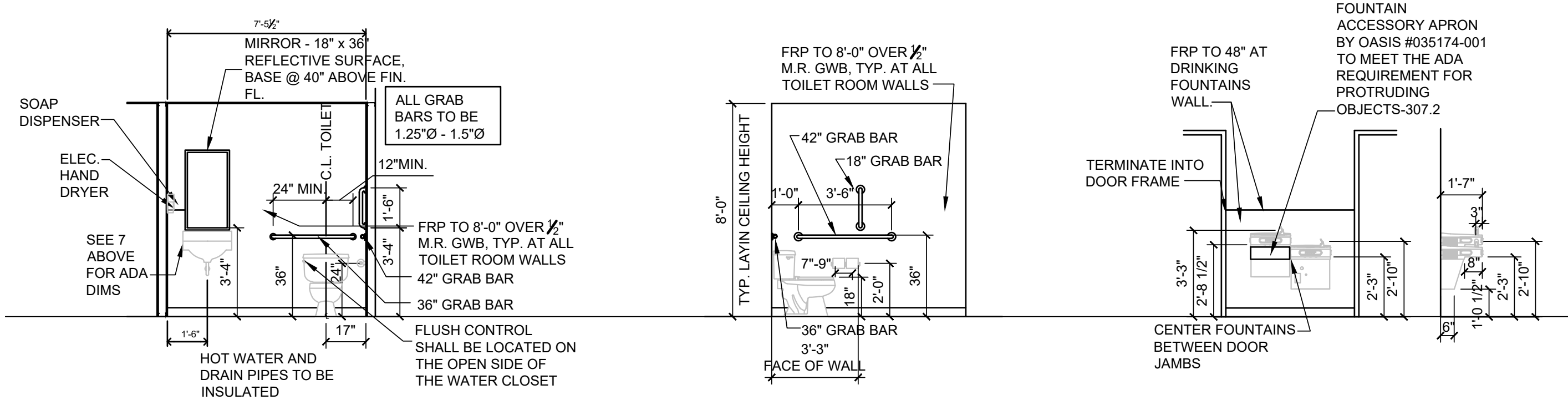
ISSUE DATE
05-21-21

DRAWN
CHECKED

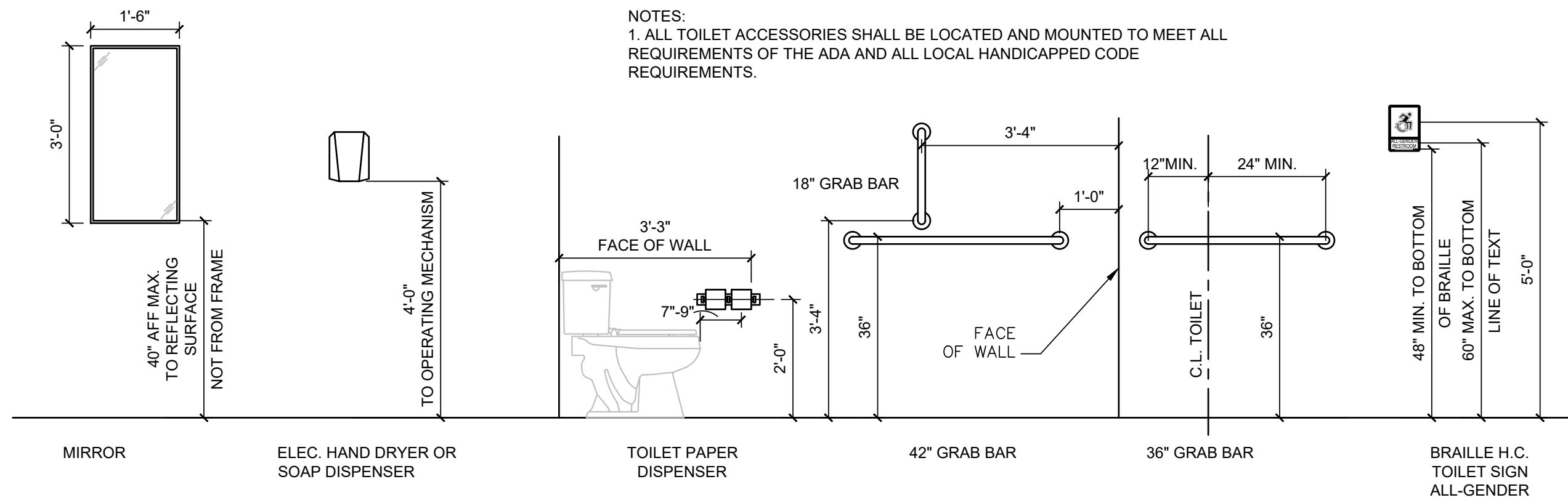
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6 TOILET ELEVATIONS
SCALE: 1/4"=1'-0"



5 TOILET ELEVATIONS
SCALE: 1/4"=1'-0"

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

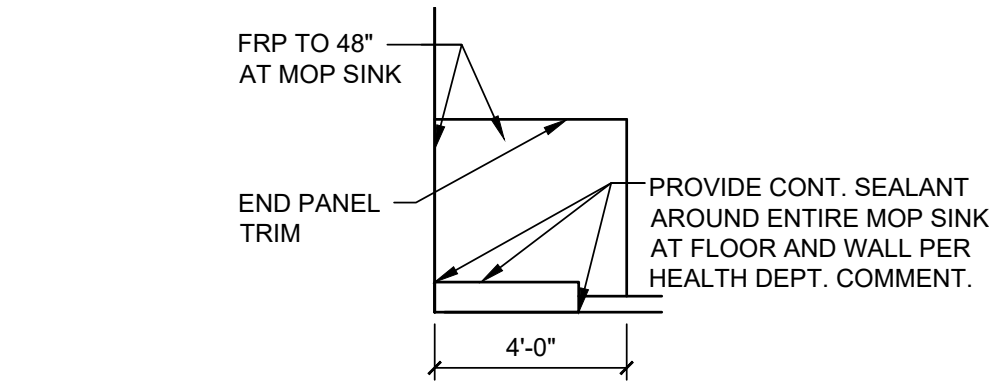
NOTES:
1. ALL TOILET ACCESSORIES SHALL BE LOCATED AND MOUNTED TO MEET ALL REQUIREMENTS OF THE ADA AND ALL LOCAL HANDICAPPED CODE REQUIREMENTS.

GENERAL TOILET ROOM NOTES:

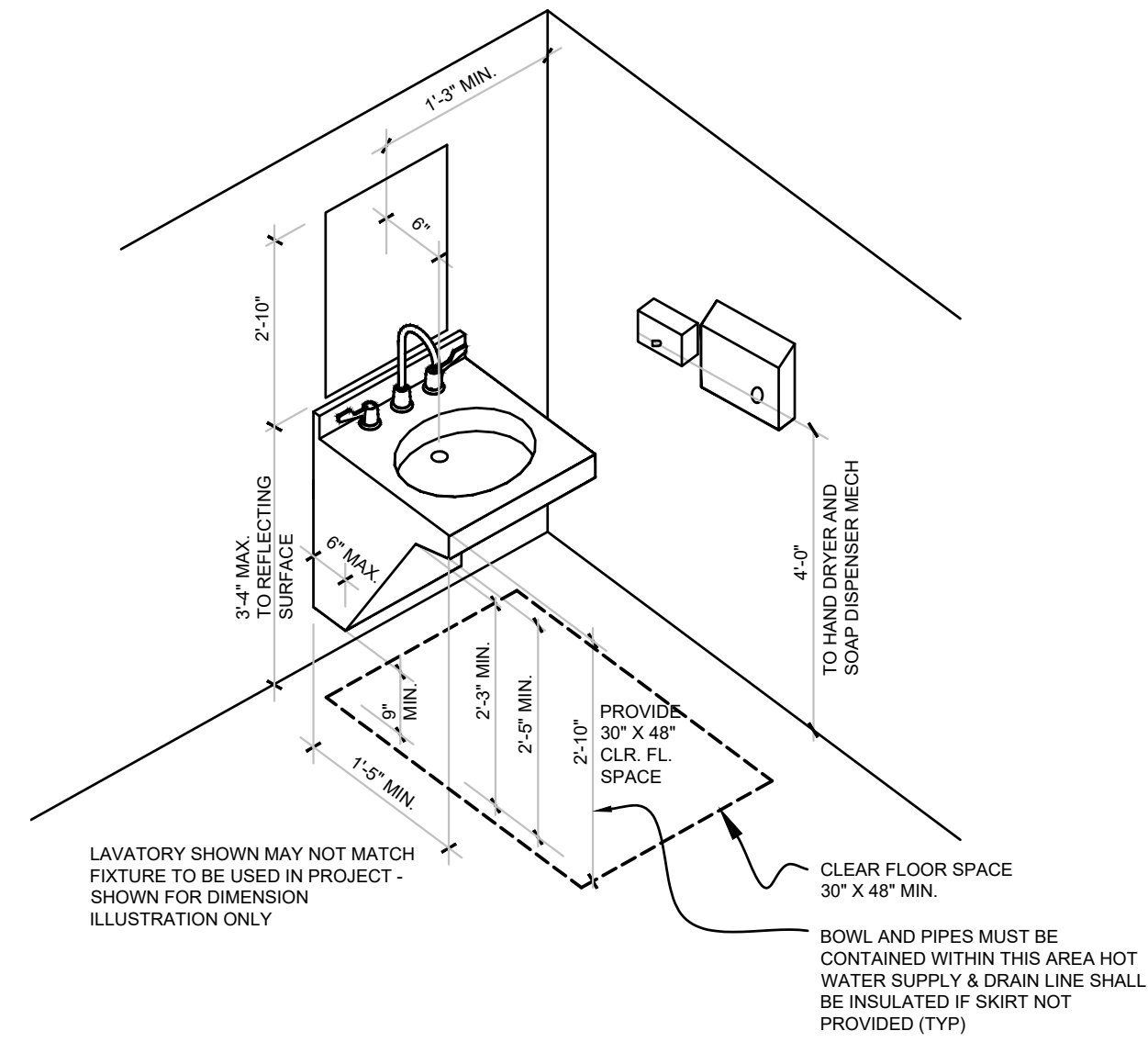
- LAYOUT OF TOILET ROOM FACILITIES SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING ALL ADA REQUIREMENTS. SUBMIT ANY MODIFIED LAYOUTS TO FAMILY DOLLAR FOR THEIR REVIEW AND APPROVAL. TOILET ACCESSORIES ARE SUPPLIED BY TENANT AND INCLUDE THE FOLLOWING ACCESSORIES FOR EACH TOILET.
- 18"X36" WALL MIRROR WITH CONCEALED MOUNTING CENTERED OVER EACH LAVATORY. INSTALL W/ BASE OF REFLECTIVE SURFACE @ 40" A.F.F. PER ADA REQUIREMENTS SHOWN ON THIS SHEET.
- STN. STL. COAT HOOK MOUNTED TO DOOR FACE OR APPROVED EQUAL. INSTALL HOOK @ 4'-0" A.F.F. MAX.
- 1 1/4" ~ x 36" & 42" & 18" STN. STL. CODE APPROVED GRAB BARS MOUNTED TO WALL. INSTALL GRAB BARS PER ADA REQUIREMENTS SHOWN ON THIS SHEET.
- PROVIDE JUNCTION BOX PER ELECTRICAL DRWGS. FOR TENANT SUPPLIED AND INSTALLED HAND DRYER.
- SOAP DISPENSER MOUNTED PER ADA REQUIREMENTS SHOWN ON THIS SHEET.
- CODE APPROVED ROOM IDENTIFICATION SIGN INSTALLED ADJACENT TO STRIKE JAMB/LATCH SIDE OF DOOR W/ HORIZONTAL CENTERLINE @ 60" A.F.F.

FRP NOTE:

INSTALL FRP (GLASBORD # 85 WHITE W/ PEBBLED EMBOSSED FINISH, BY CRANE COMPOSITES OR EQUAL) TO 8'-0" A.F.F. ON ALL WALL SURFACES IN THE RESTROOMS. INSTALL FRP TO 4'-0" A.F.F. BEHIND THE MOP SINK AND WATER COOLER A MINIMUM OF 1 FT TO EACH SIDE. COMPLETE FRP W/ TRIP CAP ON TOP, SIDES, CORNERS AND JOINTS, INCLUDING CAULKING AS REQ. BY MFG. VERIFY LOCAL CODE FOR ADDITIONAL APPLICATION IF REQ.



3 MOP AREA ELEVATIONS
SCALE: 1/4"=1'-0"



ACCESSIBLE SIGNAGE LOCATIONS:

WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A SIGN CONTAINING RAISED CHARACTERS AND BRAILLE IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE PLACED TO THE RIGHT OF THE RIGHT HANDED DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF A DOUBLE DOOR, SIGNAGE SHALL BE ON THE NEAREST ADJACENT WALL. SIGNAGE CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN CLOSED POSITION AND 45 DEGREE OPEN POSITION (NOTE: SIGNS CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE PERMITTED TO BE MOUNTED ON THE PUSH SIDE OF A DOOR LEAF WITH AN AUTOMATIC DOOR CLOSER AND WITHOUT A HOLD OPEN DEVICES.)

PICTOGRAM FIELD DEPICTING THE APPROPRIATE MALE OR FEMALE CHARACTER OF CONTRASTING COLOR TO BACKGROUND; PICTOGRAM FIELD SHALL HAVE A 6" MINIMUM HEIGHT AT RESTROOMS AND WHERE REQUIRED.

TACTILE LETTERING, APPROPRIATE TO THE REQUIREMENTS OF THE GIVEN SIGN, RAISED 1/32" ABOVE THE BACKGROUND, CHARACTERS SHALL BE UPPERCASE, SANS SERIF FONT, BETWEEN 5/8" AND 2" IN HEIGHT, WIDTH SHALL BE BASED ON THE LETTER "O" AND SHALL BE BETWEEN 55% AND 110% OF THE OF THE HEIGHT OF THE LETTER "I". STROKE WIDTH SHALL BE BETWEEN 10% AND 30% BASED ON THE LETTER "I" HAVE SHARPLY DEFINED EDGES, AND SHALL BE OF A CONTRASTING COLOR TO THE BACKGROUND.

EXIT SIGNS AT EXIT DOORS SHALL INCLUDE RAISED BRAILLE IN ACCORDANCE WITH 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN SECTION 703 AND 704 AND FOLLOW LOCAL AND STATE CODES. MOUNT PER INTERIOR SIGN HEIGHT NOTES ABOVE.



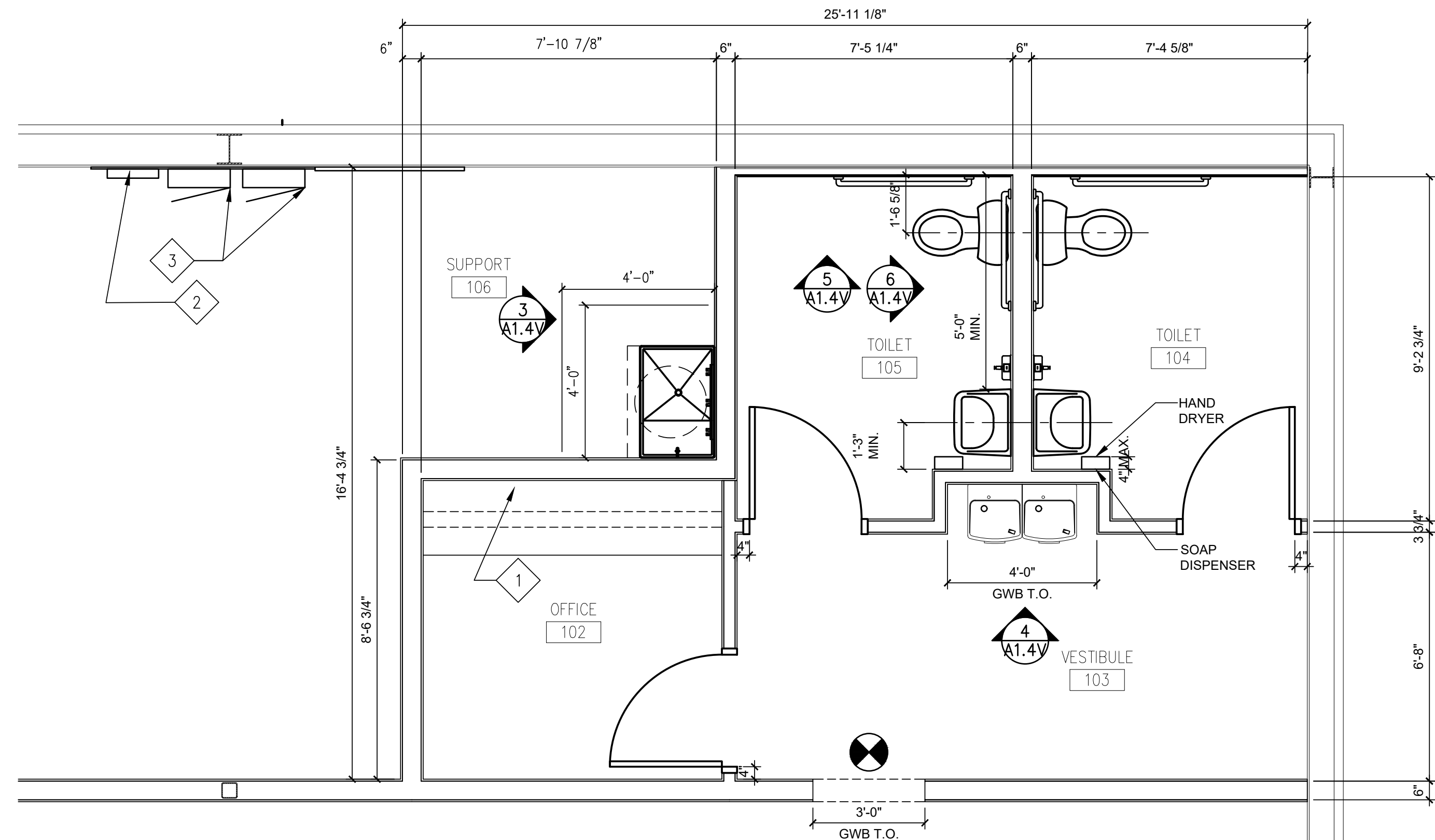
6" X 9" PLAQUE W/ 4" ACCESSIBLE PICTOGRAM, 3/4" COPY, GRADE II BRAILLE. MOUNT ON WALL @ 9" MIN. FROM THE STRIKE SIDE DOOR JAMB.

GRADE 2 BRAILLE SHALL ACCOMPANY ALL ALPHABETIC / NUMERIC CHARACTERS

ALL PARTS OF THE SIGN SHALL HAVE A NON-GLARE FINISH.

NOTE 1: PROVIDE ADDITIONAL SIGNS FOR ACCESSIBILITY AS REQUIRED BY THE ADA AND THE GOVERNING JURISDICTIONS(S) SUCH AS PUBLIC USE SAFETY DEVICES (SUCH AS FIRE ALARM STATIONS, FIRE EXTINGUISHERS, MANUAL MECHANISMS FOR ACTIVATING EMERGENCY SIGNAL DEVICES, ETC.).

8 ACCESSIBLE SIGNAGE NOTES
SCALE: NOTE TO SCALE



1 ENLARGED TOILET PLAN
SCALE: 3/8"=1'-0"

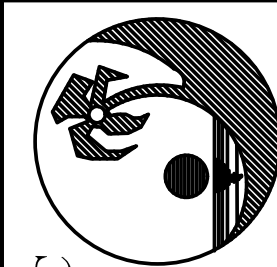
- DVR BOARD: PROVIDE 3"x4' FIRE RETARDANT PLYWOOD WITH A UL CLASSIFICATION STAMP THAT MEETS OR EXCEEDS THE REQUIREMENTS FOR CLASS 1 OR CLASS A FLAMESPREAD RATING (IBC 2012 SECT.2303.2) MOUNT BOTTOM 2'-6" A.F.F. WITH EDGE TIGHT AGAINST ADJACENT WALL. SECURE TO FRAMING SO IT HOLDS 250 LBS.
- COMMUNICATION BOARD: PROVIDE SIM. FIRE RETDNT./UL CLASS. PLYWD. BOARD-3"x4'x8' MOUNTED 24" A.F.F. SECURE TO FRAMING SO IT HOLDS 225 LBS.
- 2-200 AMP ELECT PANELS AND VENSTAR (EMS) INSTALLED ON 1/2"x4'x8' FIRE RETARDANT PLYWOOD WITH A UL CLASSIFICATION STAMP THAT MEETS OR EXCEEDS THE REQUIREMENTS FOR CLASS 1 OR CLASS A FLAMESPREAD RATING (IBC 2012 SECT.2303.2) SECURED TO PEMB GIRT FRAME. REFER TO ELECTRICAL DRWGS. FOR ADDITIONAL NOTES.

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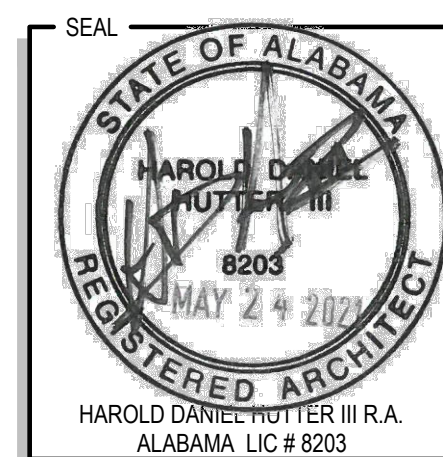


Ingenuity Designs, LLC
architecture & design
insight, innovate, illuminate

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FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
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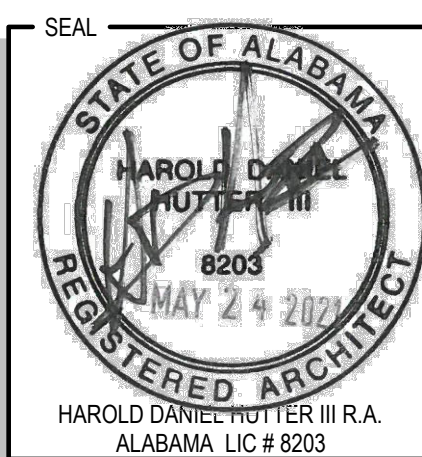


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PROJECT NAME
FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
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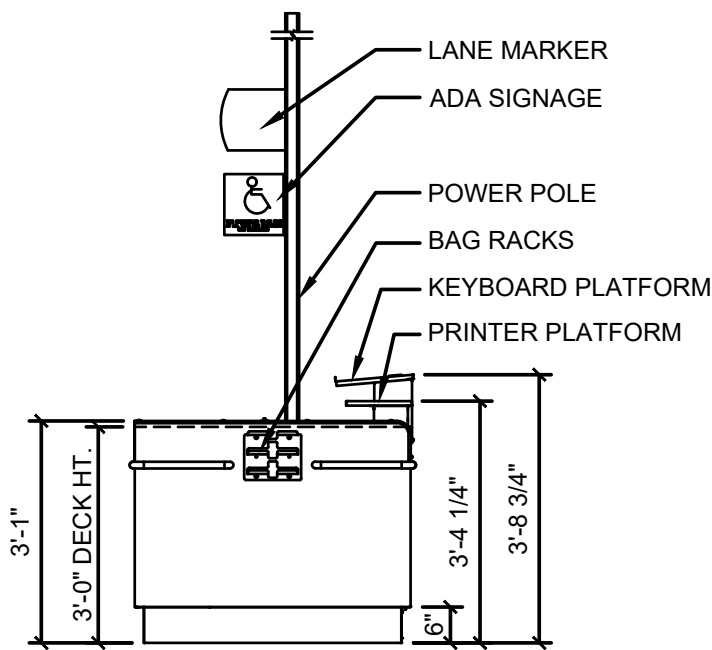
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SHEET NO.

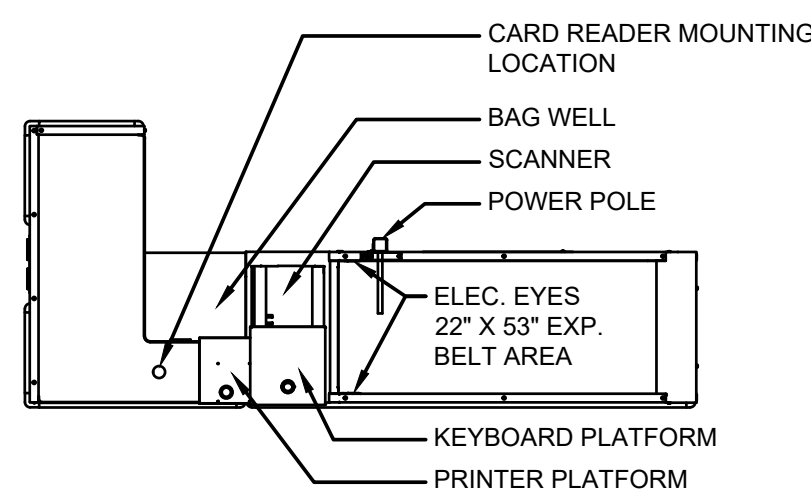
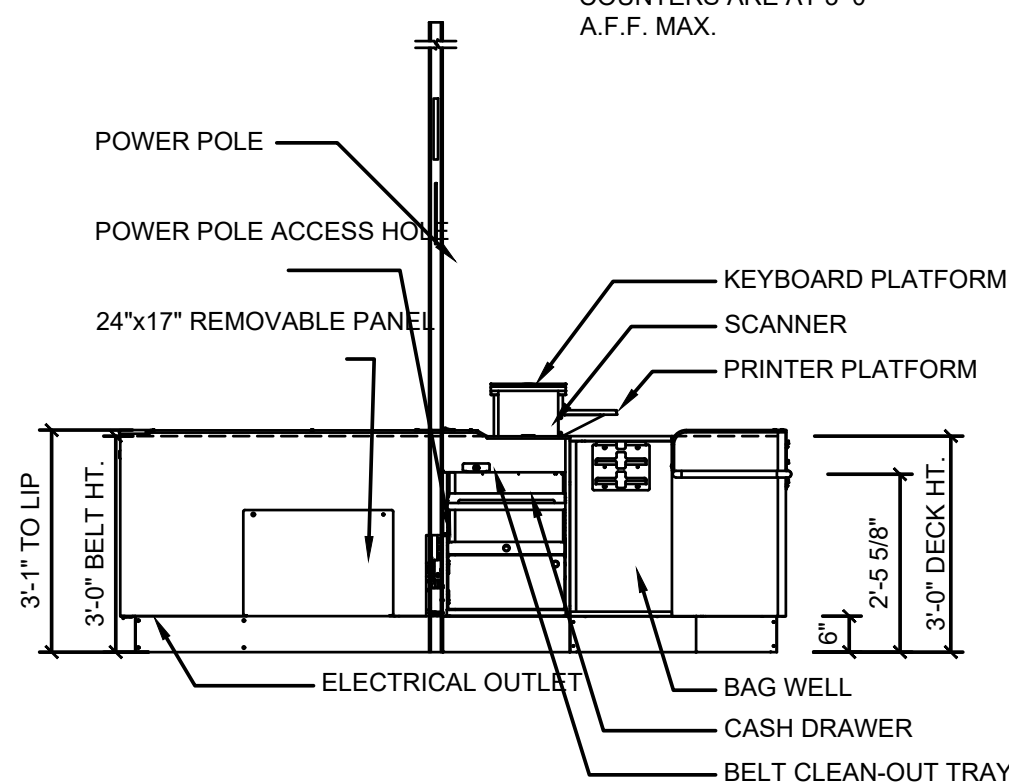
A-1.5V

INTERIOR ELEVATIONS

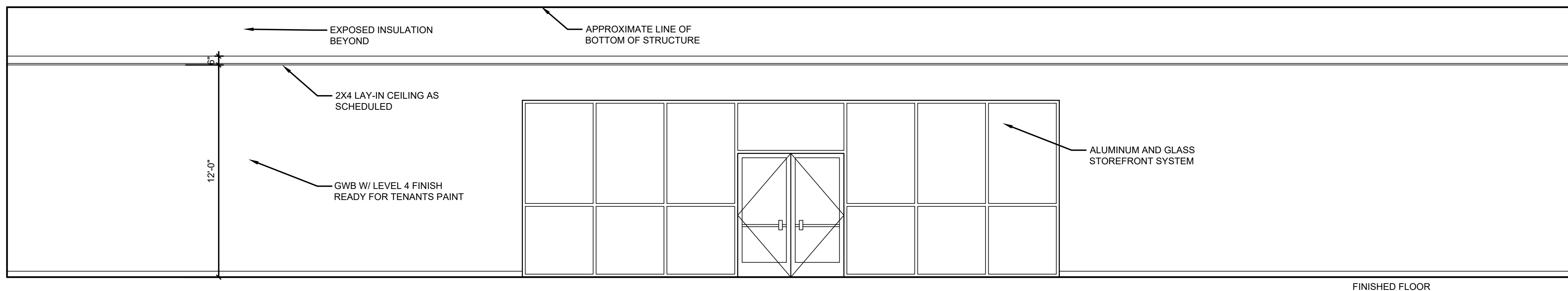
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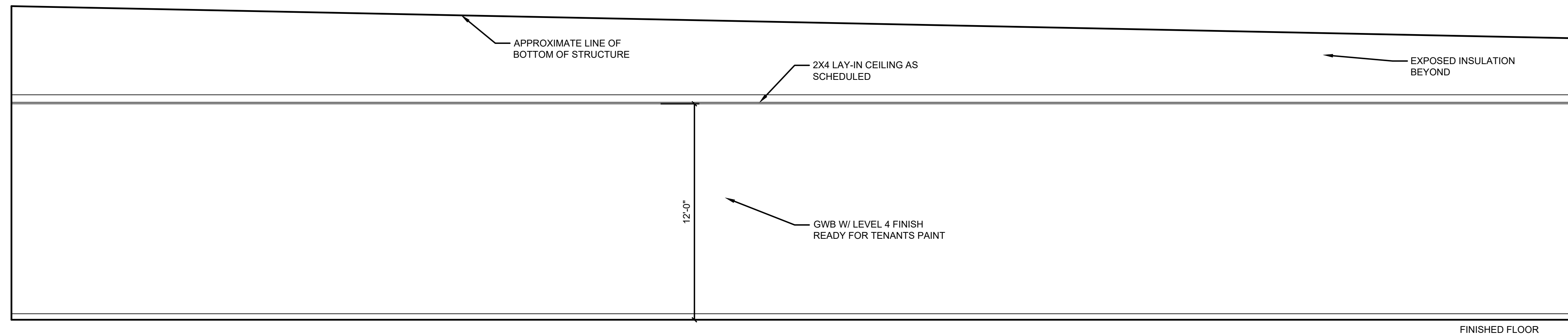
NOTE: ALL POINT OF SALES COUNTERS ARE AT 3'-0" A.F.F. MAX.



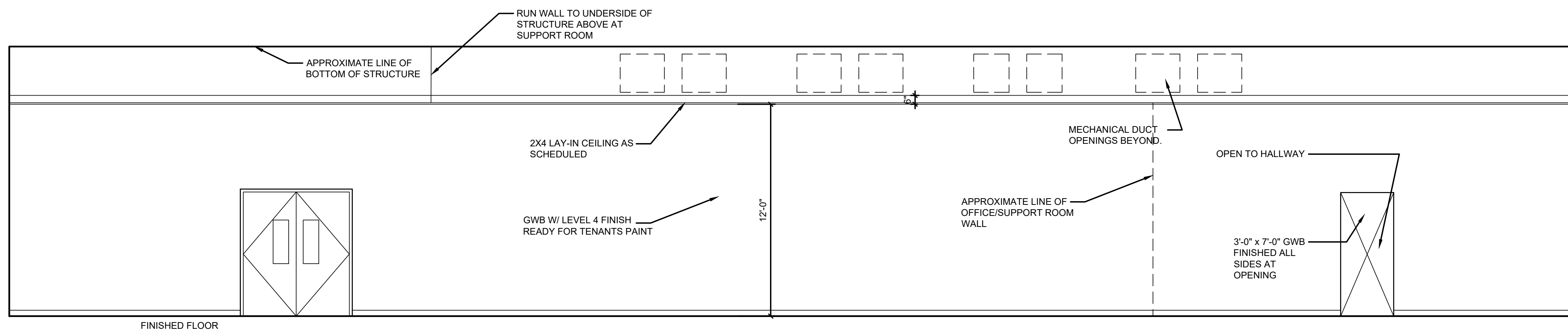
5 BELT CHECKOUT
SCALE: 3/8" = 1'-0" (FOR REFERENCE ONLY)



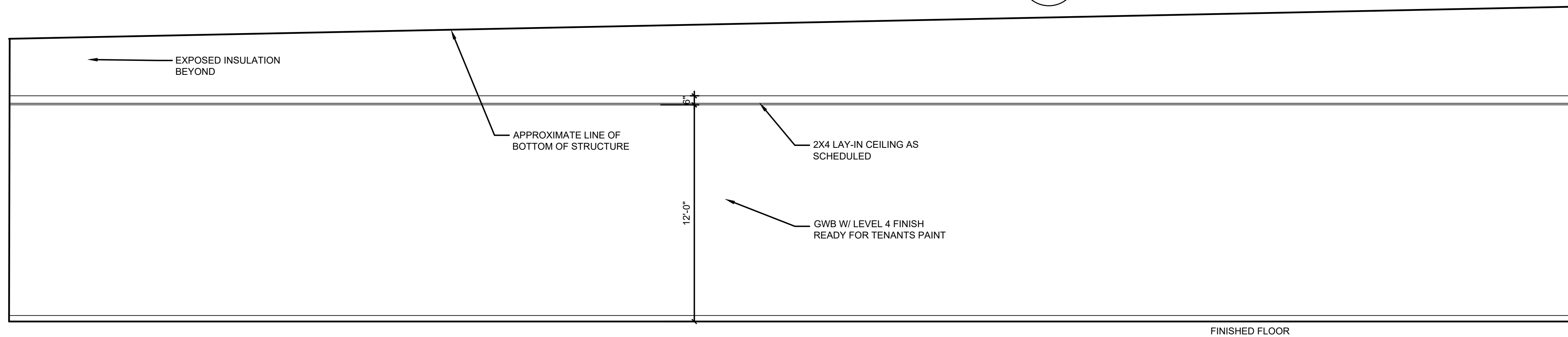
A SALES ELEVATION
SCALE: 1/4"=1'-0" ENTRY WALL



B SALES ELEVATION
SCALE: 1/4"=1'-0" OFFICE/SUPPORT WALL



C SALES ELEVATION
SCALE: 1/4"=1'-0" EXIT DOOR WALL



D SALES ELEVATION
SCALE: 1/4"=1'-0" SIDE WALL

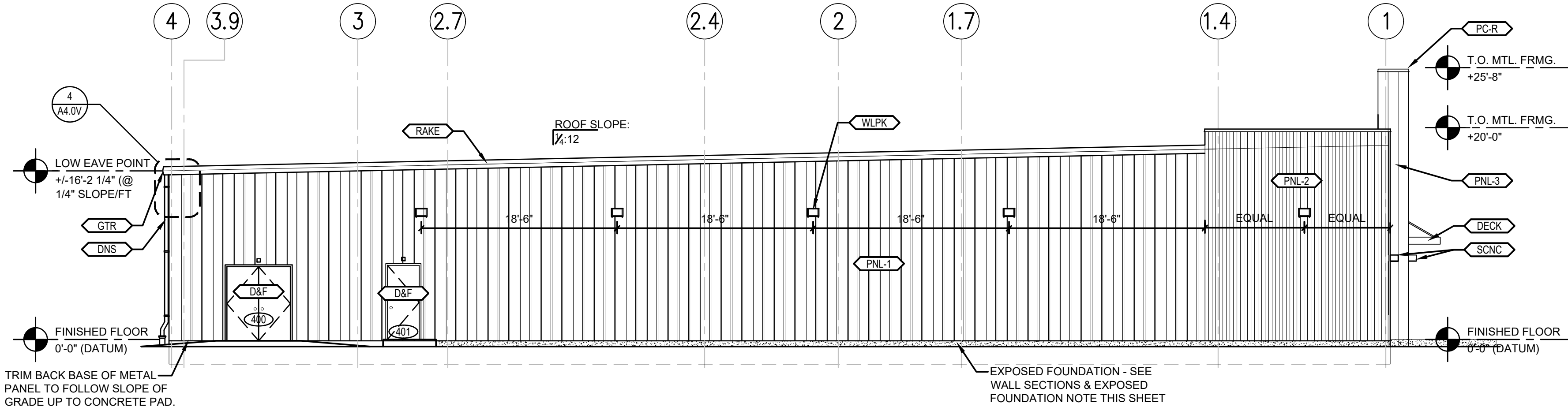
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ELEVATION LEGEND			
KEYNOTE	HATCH	DESCRIPTION	COLOR
PNL-1		1 1/8" 26 GAUGE "NCI" PBR METAL WALL PANEL (PROVIDED BY METAL BUILDING MANF.)	NCI - 'LIGHT STONE'
PNL-2		1 3/4" 24 GAUGE "NCI" 16" FLUTED DESIGNER SERIES METAL WALL PANEL (WITH CONCEALED FASTENERS)	NCI - 'LIGHT STONE'
PNL-3		1 3/4" 22 GAUGE "NCI" 12" FLAT DESIGNER SERIES METAL WALL PANEL (WITH CONCEALED FASTENERS)	NCI - 'LIGHT STONE'
PNL-4		1 3/4" 22 GAUGE "NCI" 12" FLAT DESIGNER SERIES METAL WALL PANEL (WITH CONCEALED FASTENERS)	NCI - 'ALMOND'
RF-1		3"-24 GAUGE DOUBLE LOK GALVALUME METAL ROOF SYSTEM	SOLAR WHITE
RAKE		SCULPTURED RAKE TRIM (PROVIDED BY METAL BUILDING MANF.)	NCI - 'LIGHT STONE'
PC-R		24 GAUGE KYNAR COATED METAL COPING (PROVIDED BY METAL BUILDING MANF.)	BENJAMIN MOORE 'SAFETY RED'
DNS		GALVANIZED METAL DOWNSPOUT (SIZED & PROVIDED BY METAL BUILDING MANF.)	NCI - 'LIGHT STONE'
GTR		GALVANIZED METAL GUTTER (SIZED & PROVIDED BY METAL BUILDING MANF.)	NCI - 'LIGHT STONE'
DECK		3'-0" METAL DECK CANOPY - HANGER ROD SUPPORTED W/ 8" FASCIA - SUPPLIED & INSTALLED BY SIGN VENDOR - CONTRACTOR TO PROVIDE & INSTALL WALL BOLTS (SEE A-4.0V)	BENJAMIN MOORE 'SAFETY RED'
WLPK		LED EXTERIOR WALL PAK LIGHT @ 12'-0" A.F.F. (SEE ELECTRICAL)	
SCNC		LSI LED PATRIOT WALL SCONCE @ 8'-8" A.F.F. (SEE ELECTRICAL)	BRZ - 'BRONZE'
D&F		STEEL DOOR & HOLLOW METAL FRAME	SHERWIN WILLIAMS 'BALANCED BEIGE' SW7037
A		STOREFRONT TYPE (REFER TO SHEET A-1.0V)	PAINTING NOTES:
XXX		DOOR NUMBER (REFER TO SHEET A-1.0V)	

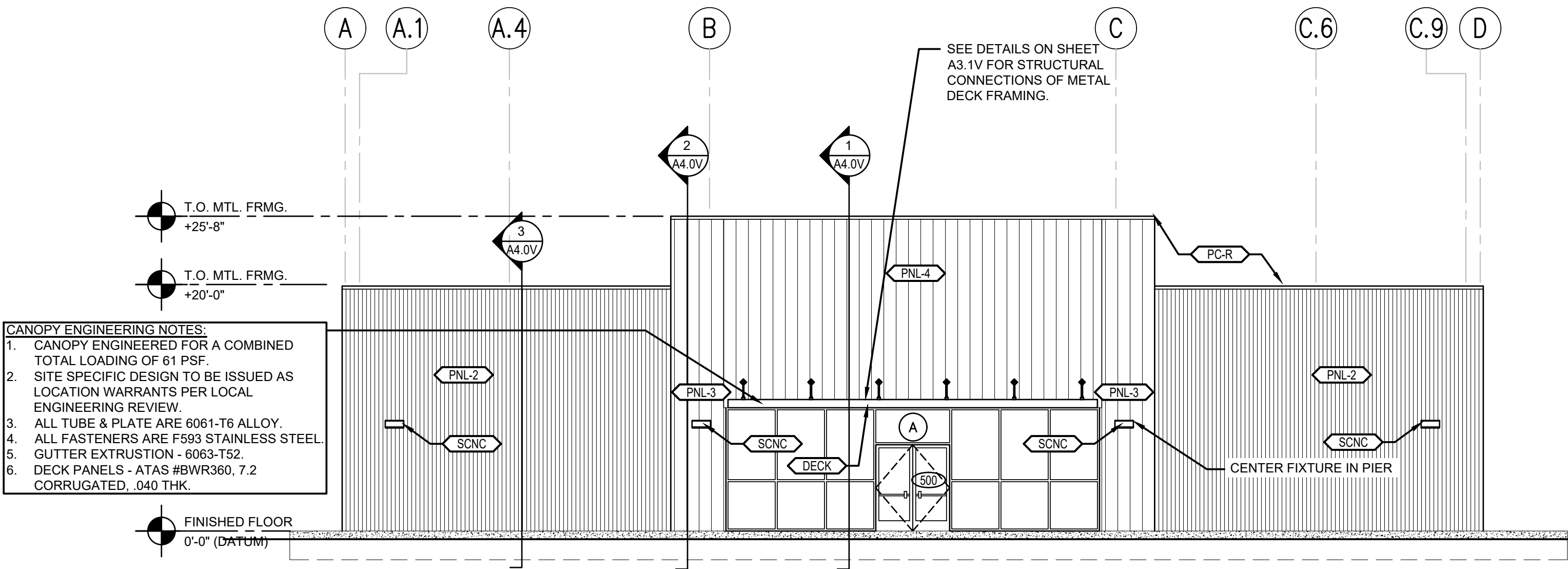
GENERAL NOTES:
1. ALL EXPOSED FOUNDATION SHALL BE PAINTED TO MATCH ABOVE SURFACE COLOR. USE SHERWIN WILLIAMS - 'VIRTUAL TAUPE' - SW7039 BELOW BLOCK & SHERWIN WILLIAMS 'BALANCED BEIGE' SW7037 BELOW METAL PANELS.

NOTE: ROOF HEIGHT IS SET AT THE FRONT WALL "HIGH EAVE POINT". ADJUST THE REAR EAVE HEIGHT AS REQUIRED BY THE SPECIFIC PLAN SIZE

REFER TO ELEVATION 2 THIS SHEET FOR SIMILAR SECTION KEY-INS.



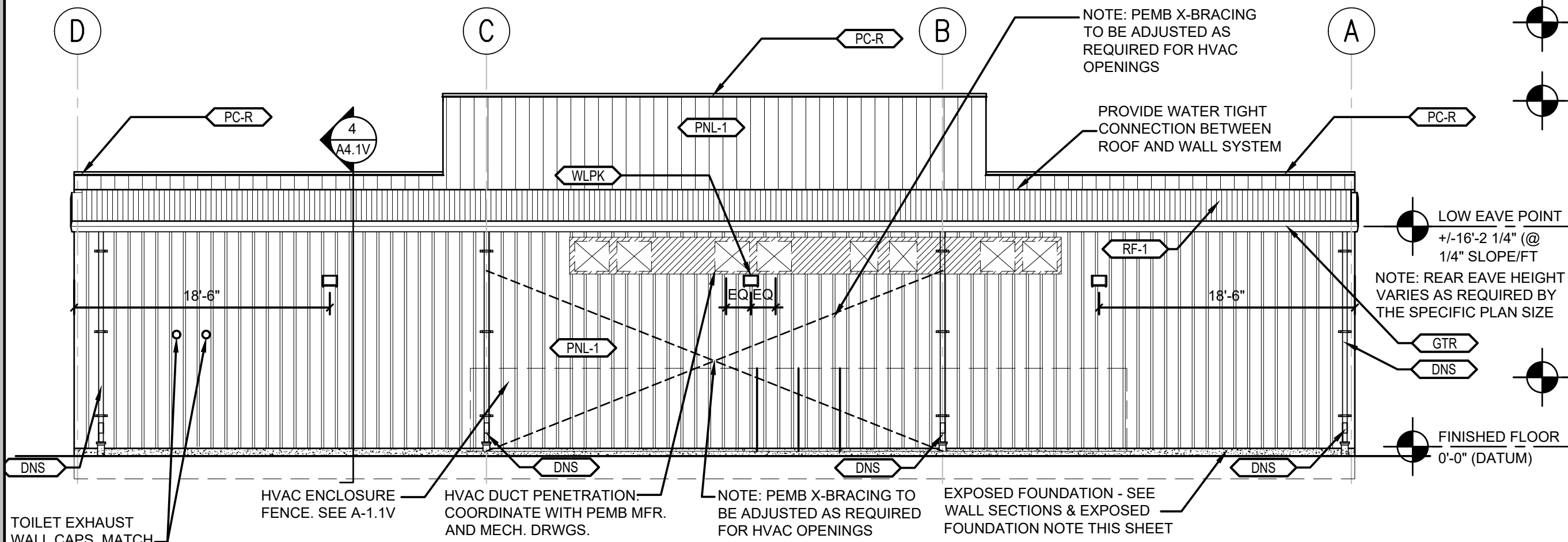
D LEFT SIDE ELEVATION - PROTO 6A
A2.0V SCALE: 1/8" = 1'-0"



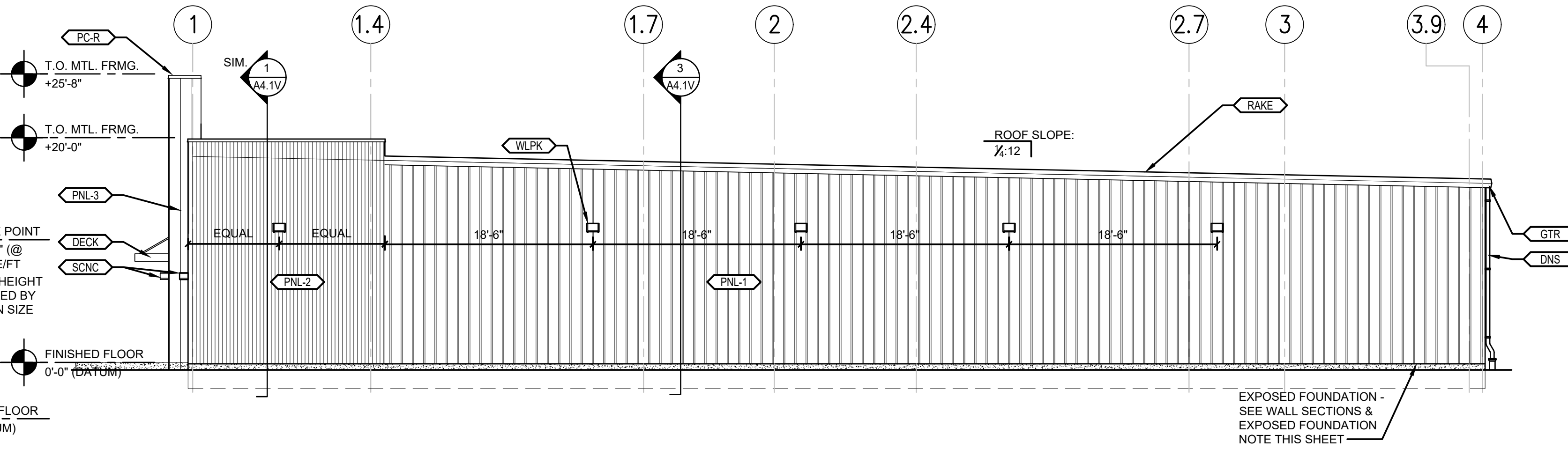
CANOPY ENGINEERING NOTES:
1. CANOPY ENGINEERED FOR A COMBINED TOTAL LOADING OF 61 PSF.
2. SITE SPECIFIC DESIGN TO BE ISSUED AS LOCATION WARRANTS PER LOCAL ENGINEERING REVIEW.
3. ALL TUBE & PLATE ARE 6061-T6 ALLOY.
4. ALL FASTENERS ARE F503 STAINLESS STEEL.
5. GUTTER EXTRUSION - 6063-T52.
6. DECK PANELS - ATAS #BWR360, 7.2 CORRUGATED, .040 THK.

A FRONT ELEVATION - PROTO 6A
A2.0V SCALE: 1/8" = 1'-0"

NOTES:
1. HVAC ENCLOSURE FENCE NOT SHOWN FOR CLARITY - SEE DASHED OUTLINE BELOW FOR APPROXIMATE LOCATION.
2. HVAC UNITS & DUCTWORK NOT SHOWN FOR CLARITY - SEE OUTLINES BELOW FOR PENETRATION APPROXIMATE LOCATIONS.
3. MECHANICAL SHROUD SHALL BE PAINTED W/ SHERWIN WILLIAMS 'BALANCED BEIGE' SW7037.



C REAR ELEVATION - PROTO 6A
A2.0V SCALE: 1/8" = 1'-0"



B RIGHT SIDE ELEVATION - PROTO 6A
A2.0V SCALE: 1/8" = 1'-0"

LIS ARCHITECTURE ENGINEERING
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Alva, FL 33920
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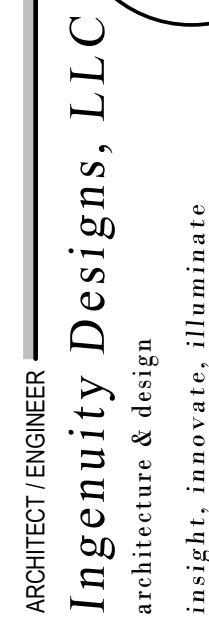
Ingenuity Designs, LLC
architecture & design
insight, innovate, illuminate
Harold Daniel Hutter III
RA, NCARB
2572 West State Road 426, Ste 205A,
Oviedo, FL 32765 Phone 321-244-0402

PERMAN ENGINEERING CO. LLC
ENGINEERS-CONTRACTORS-DEVELOPERS
2425 LUMBURY ROAD
RAINBOW CITY, AL 35906

FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA

REGISTERED ARCHITECT
HAROLD DANIEL HUTTER III R.A.
ALABAMA LIC # 8203

RELEASE _____ DATE _____
PROJECT NO. 2021-056
ISSUE DATE 05-21-21
DRAWN _____ CHECKED _____
SHEET NO. A-2.0V



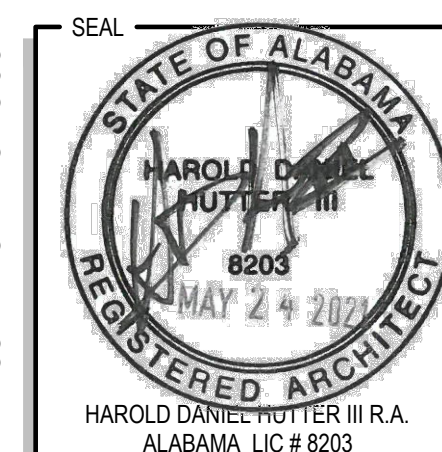
Harold Daniel Hutter III
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CLIENT NAME **PERMAN ENGINEERING CO. LLC**
ENGINEERS-CONTRACTORS-DEVELOPERS
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PROJECT NAME
FAMILY DOLLAR STORE
21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE ALABAMA

HEET TITLE

STOREFRONT ELEVATIONS AND DETAILS



RELEASE	DATE

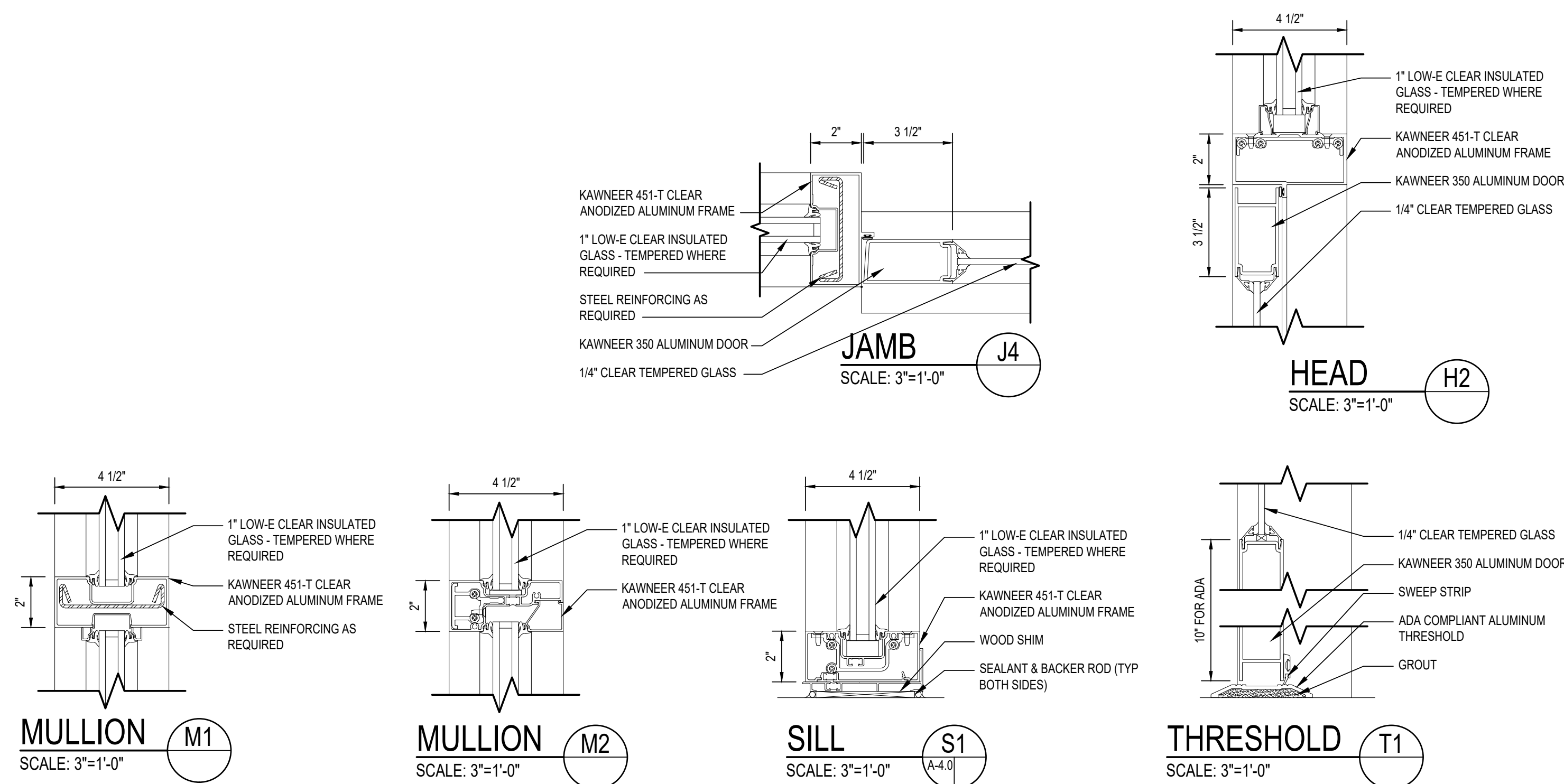
PROJECT NO. 2021-056

ISSUE DATE 05-21-21

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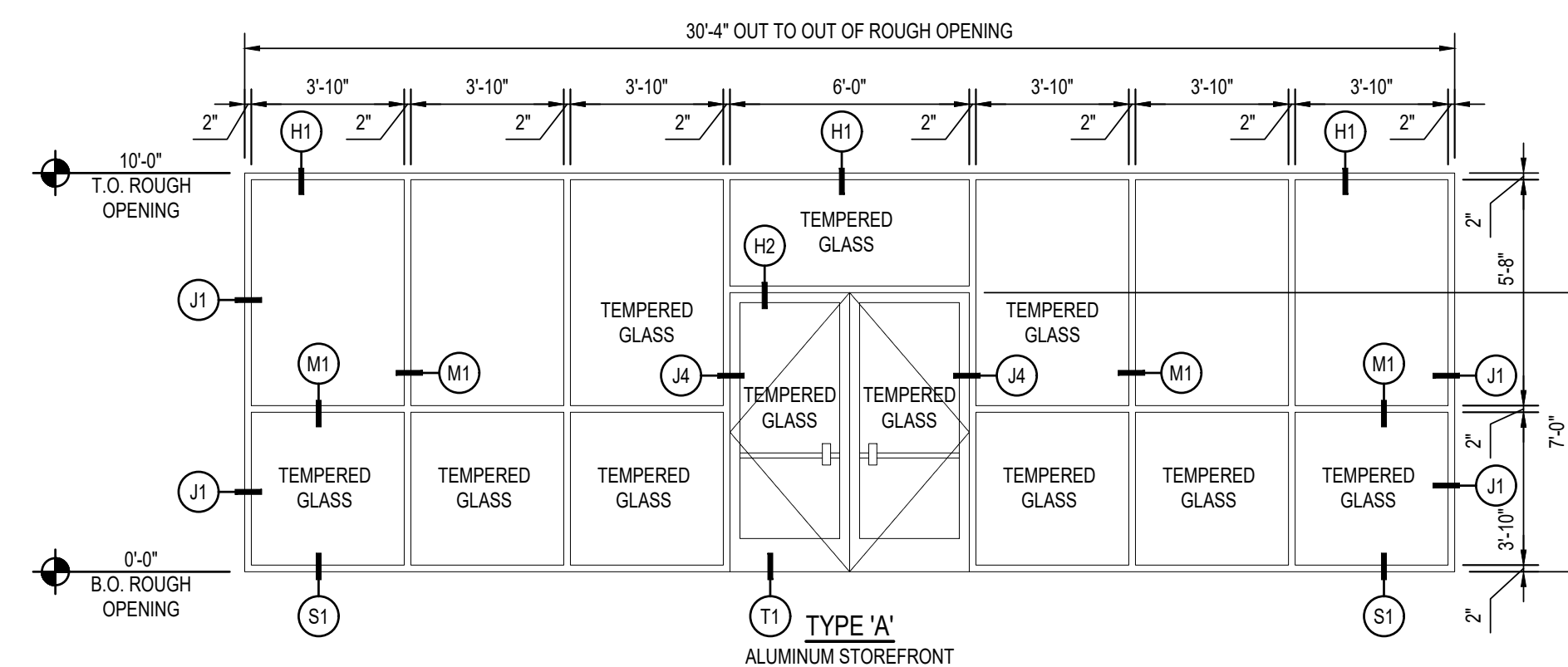
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A-3.0V



REFER TO SECTION 1 / A-4.0
FOR HEAD DETAIL

HEAD
SCALE: 3"=1'-0"



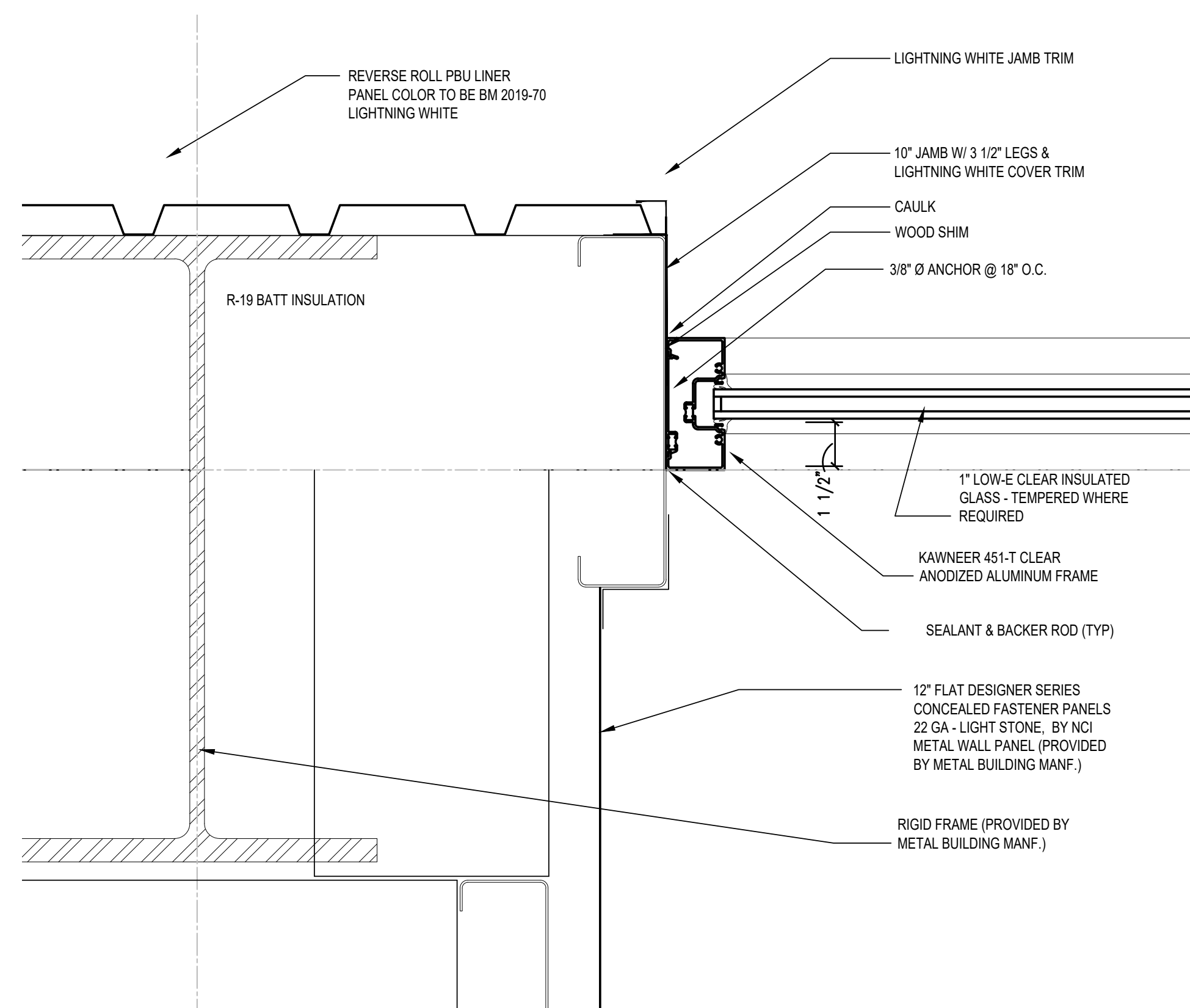
GENERAL NOTE:
DIMENSIONS DO NOT ACCOUNT FOR SHIMMING AT PERIMETER OF STOREFRONT. SHOP DRAWINGS SHALL BE ADJUSTED TO ACCOUNT FOR REQUIRED SHIMMING. ROUGH OPENING DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO MANUFACTURING STOREFRONT

STOREFRONT ELEVATIONS

STOREFRONT SCHEDULE

MARK	QTY.	MANUFACTURER	FINISH	GLASS		
				TYPE	INTERIOR PANE	EXTERIOR PANE
A	1	KAWNEER 451T	CLEAR ANODIZED	1" INSULATED	1/4" CLEAR FLOAT	1/4" CLEAR FLOAT W/ LOW-E COATING

JAMB
SCALE: 3"=1'

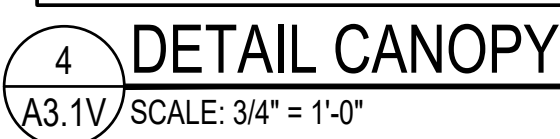
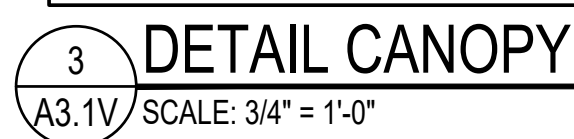
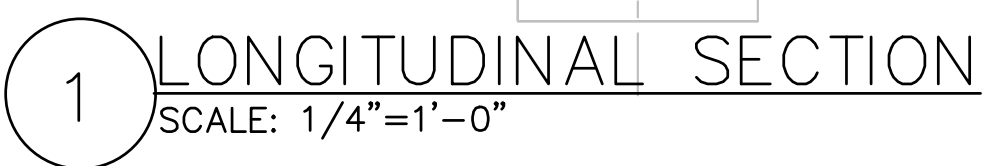


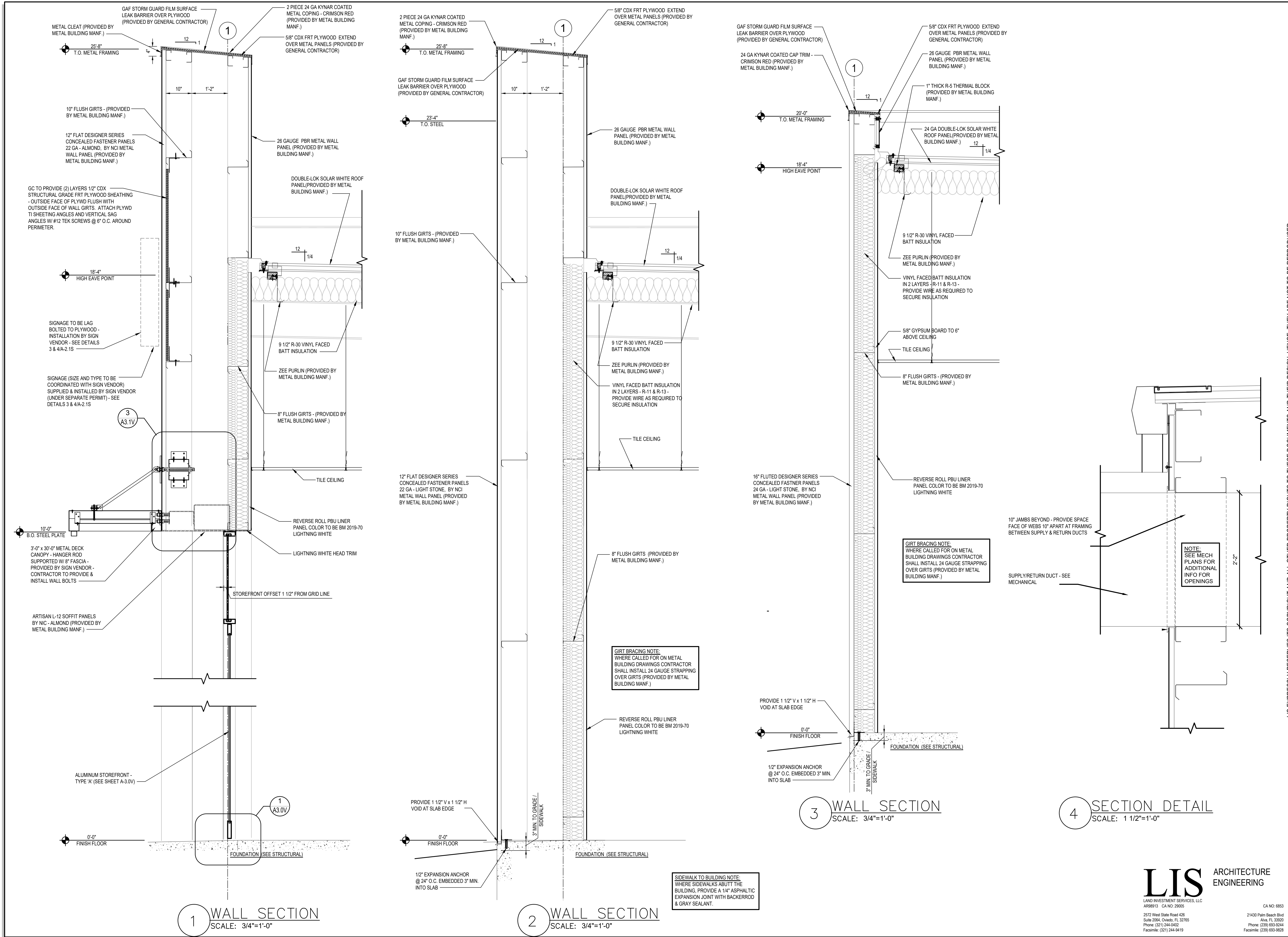
LIS
LAND INVESTMENT SERVICES, LLC

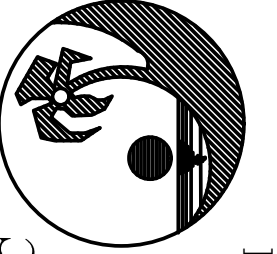
ARCHITECTURE
ENGINEERING

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architecture & design
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ARCHITECT / ENGINEER

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ENGINEERS-CONTRACTORS-DEVELOPERS
2425 LUMBKEY ROAD
RAINBOW CITY, AL 35906

PROJECT NAME
FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA

SHEET TITLE
WALL SECTIONS

STATE OF ALABAMA
REGISTERED ARCHITECT
HAROLD DANIEL HUTTER III R.A.
ALABAMA LIC # 8203

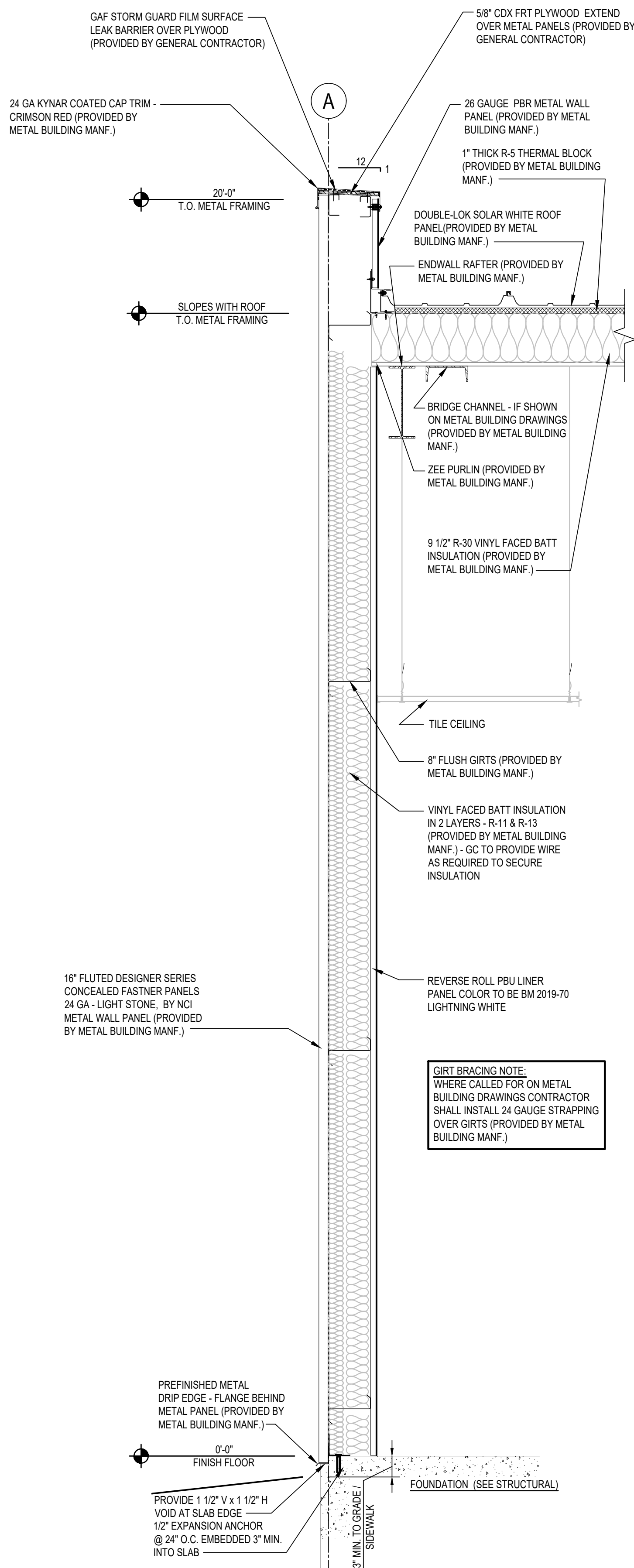
RELEASE _____ DATE _____

PROJECT NO.
2021-056

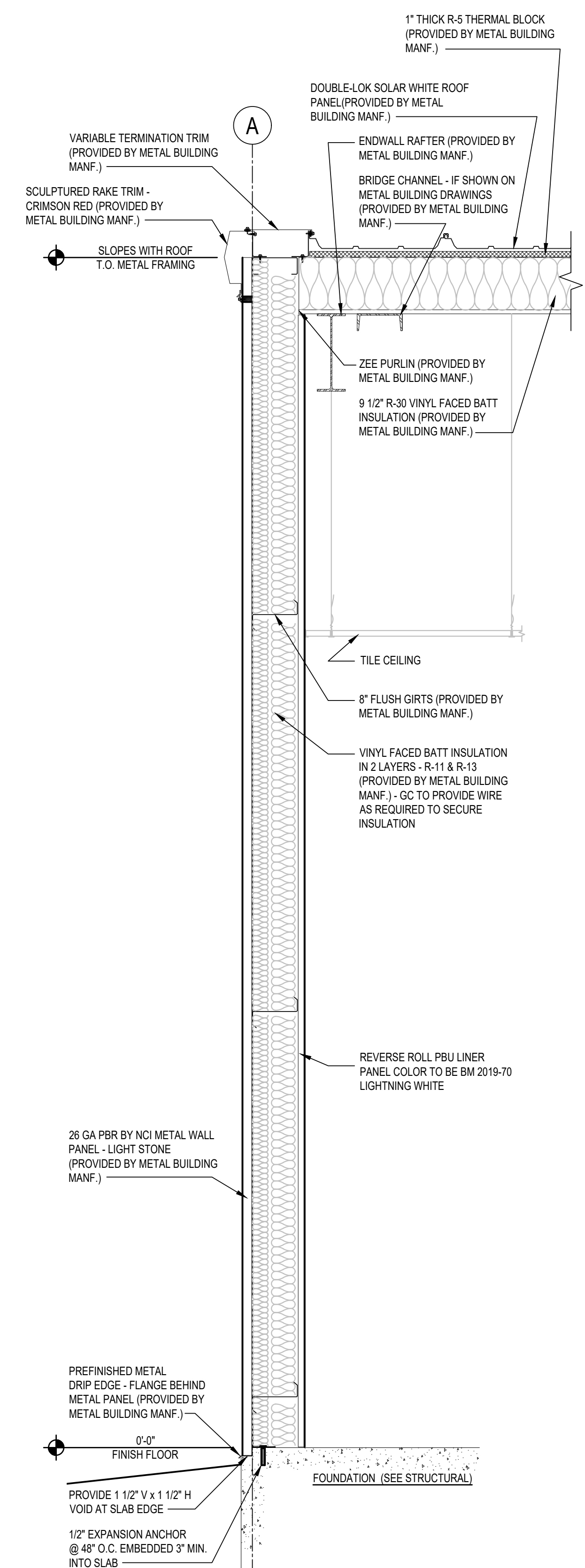
ISSUE DATE
05-21-21

DRAWN _____ CHECKED _____

SHEET NO.
A-4.0V

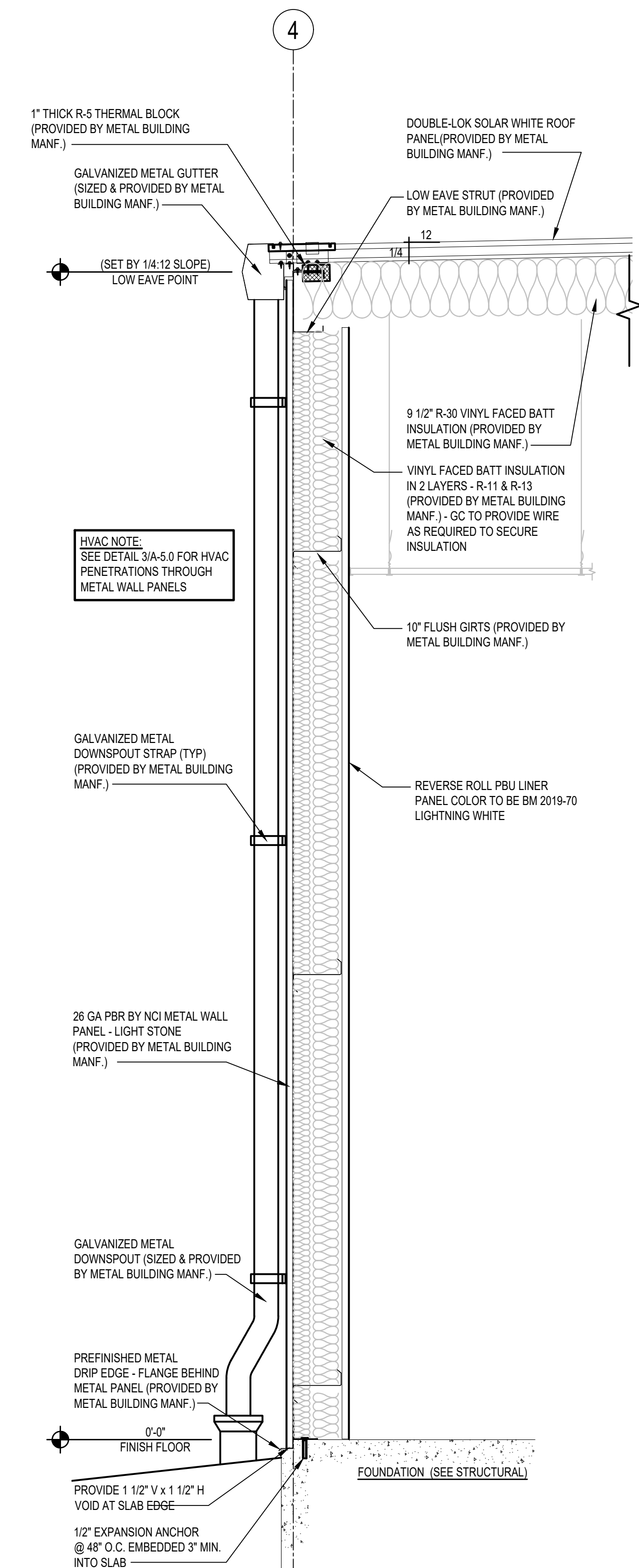


1 WALL SECTION
SCALE: 3/4"=1'-0"

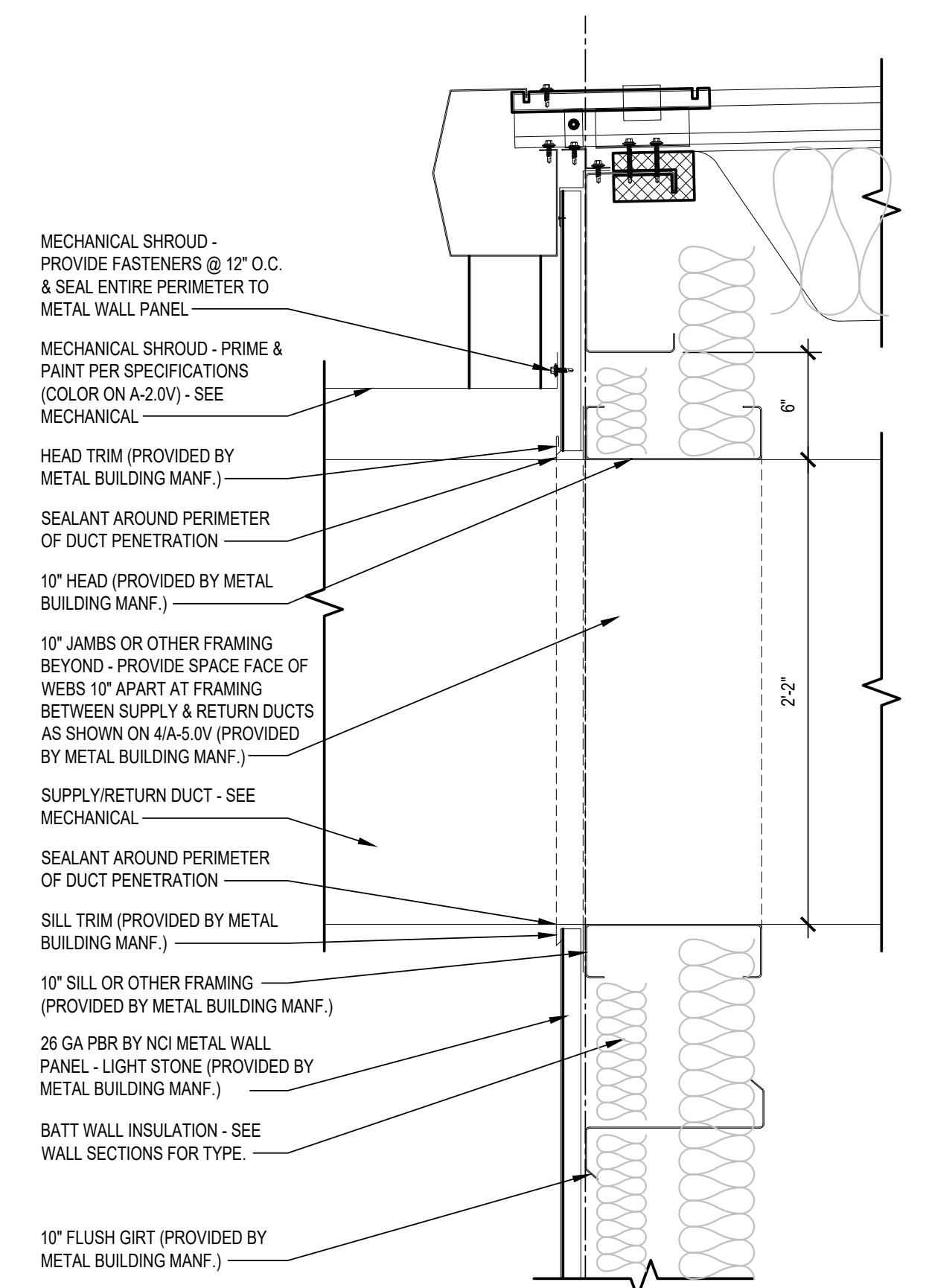


2 WALL SECTION
SCALE: 3/4"=1'-0"

SIDEWALK TO BUILDING NOTE:
WHERE SIDEWALKS ABUTT THE BUILDING, PROVIDE A 1/4" ASPHALTIC EXPANSION JOINT WITH BACKERROD & GRAY SEALANT.

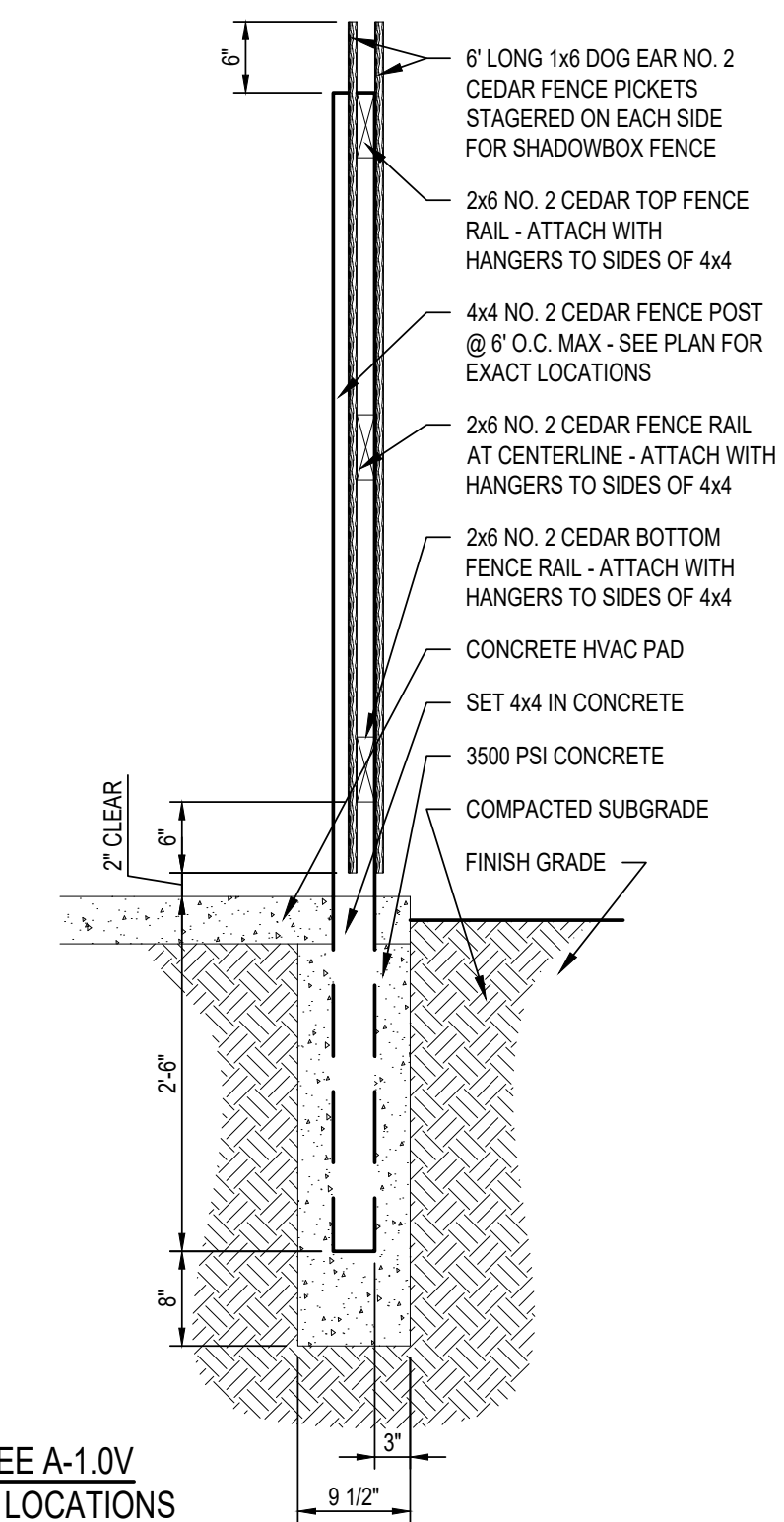


3 WALL SECTION
SCALE: 3/4"=1'-0"



5 HVAC FENCE ENCLOSURE DETAIL
SCALE: 3/4"=1'-0"

4 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



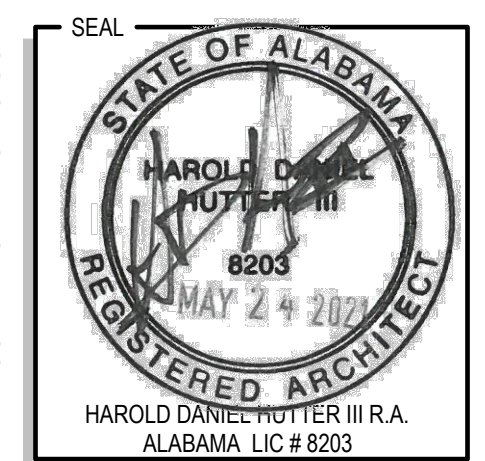
SEE A-1.0V
FOR LOCATIONS

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2425 LUMBKEY ROAD
RAINBOW CITY, AL, 35906

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FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA
SHEET TITLE
WALL SECTIONS



RELEASE	DATE
PROJECT NO.	2021-056
ISSUE DATE	05-21-21
DRAWN	CHECKED
SHEET NO.	A-4.1V

PLUMBING GENERAL NOTES			
GENERAL REQUIREMENTS: 1. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES. 2. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. 3. WARRANTY: PROVIDE ALL MATERIALS AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER. 4. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO CHARGE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING LINES AT CMU WALLS SO THAT PLUMBING LINES ARE PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED. 5. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS. 6. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: - PLUMBING FIXTURES AND EQUIPMENT - FIRE STOPPING - DOMESTIC WATER SYSTEM - SANITARY WASTE AND VENT SYSTEM	DOMESTIC WATER PIPING: 1. PROVIDE A COMPLETE SYSTEM OF HOT AND COLD WATER PIPING FROM ALL PLUMBING FIXTURES AND/OR OTHER EQUIPMENT. HOT AND COLD WATER LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE. 2. DOMESTIC WATER PIPING BELOW SLAB: SOFT ANNEALED SEAMLESS COPPER TUBING, TYPE "K" WITH NO JOINTS BELOW SLAB (ASTM B 88). IF ALLOWED BY LOCAL JURISDICTION, PEX PIPING MAY BE RUN BELOW SLAB. PROVIDE SLEEVING WHERE PEX PIPING PENETRATES CONCRETE SLAB OR IS SUBJECT TO ABRASION AND AS RECOMMENDED BY MANUFACTURER. 3. DOMESTIC WATER PIPING AND JOINTS ABOVE SLAB: PEX PIPING (ASTM F 876) UNLESS LOCAL JURISDICTION REQUIRES OTHER MATERIAL. 4. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS. 5. INSULATION IS REQUIRED ON ALL WATER SUPPLY PIPING ABOVE FINISHED FLOOR IN ACCORDANCE WITH THE STATE PLUMBING CODE OR PER LOCAL JURISDICTION. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS. 6. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES MUST MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD. 7. DO NOT INSTALL DOMESTIC WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION. 9. PROVIDE FULL PORT VALVES IN ALL BRANCH LINES OF THE HOT AND COLD WATER DISTRIBUTION SYSTEM ON 6" AND LARGER CW & HW AND AS SHOWN ON PLANS, RISERS, AND SCHEMATIC DETAILS. 10. PROVIDE ACCESS DOORS FOR ALL VALVES AND DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE INACCESSIBLE CEILING CONSTRUCTION. 11. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH MASONRY OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PROTECT THE COPPER AGAINST CONTACT WITH OTHER METALS. 12. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, SLEEVES SHALL BE COPPER OR RED BRASS. WHERE COPPER MUST BE CONCEALED IN A MASONRY PARTITION OR AGAINST MASONRY, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY WITH ASPHALTIC ENAMEL AND PROVIDING 15# ASPHALT SATURATED FELT BETWEEN THE PIPE AND MASONRY. 13. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.	SANITARY WASTE AND VENT PIPING: 1. PROVIDE A COMPLETE SYSTEMS OF SOIL, WASTE, AND VENT PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT. ALL SOIL, WASTE AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE. 2. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. 3. SANITARY WASTE AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC (ASTM D 2865) WITH SCHEDULE 40 SOCKET-TYPE PIPE FITTINGS (ASTM D 3311). 4. SLOPE SANITARY WASTE PIPING 2" AND SMALLER AT 1" PER FOOT MIN. SLOPE SANITARY WASTE PIPING 3" AND LARGER AT 1/4" PER FOOT MINIMUM. 5. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, WITH MATCHING STOPS AND ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEANOUT PLUG FOR ALL LAVATORIES. 6. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS, AT EVERY FOUR 45 DEGREE TURNS, AND AT EVERY 100 FEET. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS. 7. PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS. 8. COMPLETELY ROO AND FLUSH OUT ALL SANITARY WASTE LINES AFTER BUILDING IS COMPLETED.	DOMESTIC WATER METER: 1. VERIFY DOMESTIC WATER METER REQUIREMENTS WITH LOCAL AUTHORITY AND PROVIDE WATER METERING AS REQUIRED. FD PREFERS THAT WATER METER FOR DOMESTIC WATER SERVICE BE LOCATED OUTSIDE. SEE PLANS FOR ALTERNATE INTERIOR LOCATION OF WATER METER IF INTERIOR LOCATION IS REQUIRED BY LOCAL WATER AUTHORITY. COORDINATE LOCATION WITH OTHER TRADES. DOMESTIC WATER BACKFLOW PREVENTION: 1. VERIFY DOMESTIC WATER BACKFLOW PREVENTER REQUIREMENTS WITH LOCAL AUTHORITY AND PROVIDE BACKFLOW PREVENTION DEVICES AS REQUIRED. FD PREFERS THAT BACKFLOW PREVENTER FOR DOMESTIC WATER SERVICE BE LOCATED OUTSIDE. SEE PLANS FOR ALTERNATE INTERIOR LOCATION OF BACKFLOW PREVENTER IF INTERIOR LOCATION IS REQUIRED BY LOCAL WATER AUTHORITY. COORDINATE LOCATION WITH OTHER TRADES. IRRIGATION METER AND BACKFLOW PREVENTION: 1. CONTRACTOR SHALL PROVIDE SEPARATELY METERED IRRIGATION SERVICE. VERIFY METERING AND BACKFLOW PREVENTER REQUIREMENTS WITH LOCAL WATER AUTHORITY AND PROVIDE METERING AND BACKFLOW PREVENTION DEVICES AS REQUIRED. FD PREFERS THAT WATER METER AND BACKFLOW PREVENTER FOR IRRIGATION SERVICE BE LOCATED OUTSIDE. SEE PLANS FOR ALTERNATE INTERIOR LOCATION OF WATER METER AND/OR BACKFLOW PREVENTER IF INTERIOR LOCATION IS REQUIRED BY LOCAL WATER AUTHORITY. COORDINATE LOCATION WITH OTHER TRADES. PLUMBING FREEZE PROTECTION: (EXTREME FREEZING CLIMATES ONLY) 1. ALL PLUMBING LINES SHALL BE RUN 12" MINIMUM BELOW FROST LINE. 2. DO NOT RUN PLUMBING WATER LINES IN EXTERIOR WALLS. FOR PLUMBING FIXTURES LOCATED AGAINST EXTERIOR WALLS, FIXTURE DISTRIBUTION LINES SHALL BE RUN EXPOSED IN CONDITIONED SPACE UP THRU SLAB TO CONNECT PLUMBING FIXTURES AND/OR EQUIPMENT.
FIXTURES & EQUIPMENT: 1. ALL PLUMBING FIXTURES AND PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. PROVIDE ISOLATION VALVES AT ALL PLUMBING FIXTURES AND EQUIPMENT. SEE FIXTURE SCHEDULE. 2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.			
FIRE STOPPING: 1. PROVIDE A U.L. LISTED ASSEMBLY FOR ALL PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.			

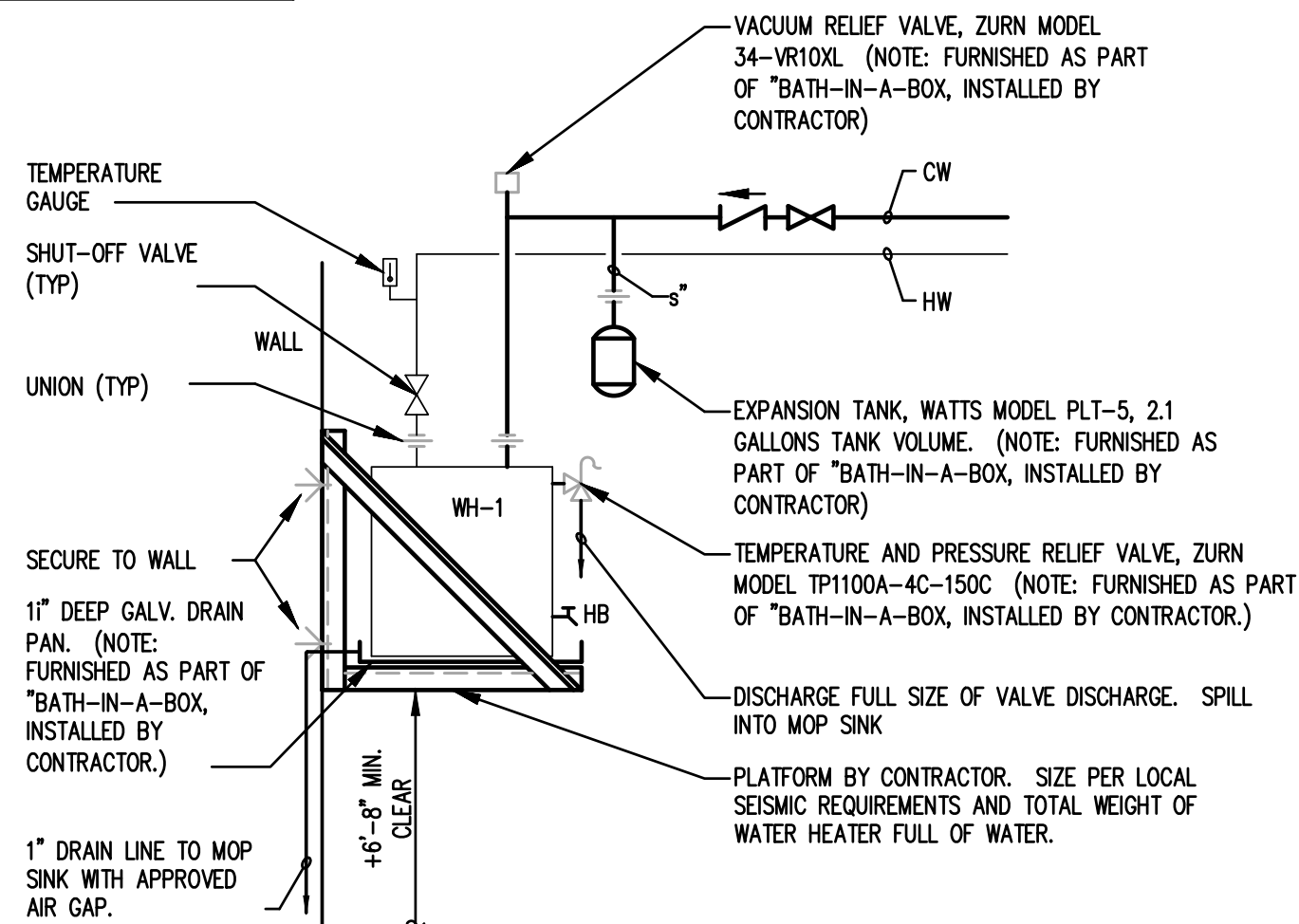
PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE TYPE	MANUFACTURER & MODEL NUMBER (OR EQUAL ACCEPTED)	FIXTURE CONNECTIONS				REMARKS
			CW	HW	W	V	
DE	BI-LEVEL HANDICAP DRINKING FOUNTAIN	ELKAY MODEL NO. EMABFT-DOLC NON-REFRIGERATED	1/2"	----	1 1/2"	1 1/2"	FURNISH STANDARD CABINET FINISH FOUNTAIN, SUPPLY STOP & TUBE, DRAIN KIT, WALL HANGER KIT AND CANE APRON KIT.
EQO	EXTERIOR CLEANOUT	ZURN MODEL #1454-HD	----	----	LINE SIZE	----	SIZE PER PIPING LATERAL, 4" MAX., PROVIDE WITH 18" X 18" X 4" THICK CONCRETE PAD SET FLUSH TO GRADE.
EQO	FLOOR CLEANOUT	ZURN MODEL #1454	----	----	LINE SIZE	----	SIZE PER PIPING LATERAL, 4" MAX.
EPHB	HOSE BIBB	ZURN MODEL #1321XL-WC	----	----	3/4"	----	3/4" NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING WITH INTEGRAL BACKFLOW PREVENTER. SIZE PER WALL THICKNESS.
MS	FLOOR MTD. MOP SINK	ZURN MODEL Z1996-36	1/2"	1/2"	3"	2"	FURNISH SINK, ZURN MODEL NO. ZB43M1 SERVICE SINK FAUCET WITH BUILT-IN VACUUM BREAKER, HOSE AND BRACKET, MOP HANGER, AND DRAIN KIT
LAV	HANDICAP WALL HUNG LAVATORY	ZURN MODEL NO. Z5344 WITH 1/2 GPM FLOW RESTRICTOR, GRID DRAIN. FAUCET HOLES ON 4" CENTERS	1/2"	1/2"	1 1/2"	1 1/2"	FURNISH LAVATORY, ZURN ZB8500-XL LEAD FREE METERING FAUCET, WALL HANGER KIT, SUPPLY STOPS & TUBES, DRAIN, AND ADA PIPING PROTECTION
TMV	MIXING VALVE	ZURN ZW3870-XLT	3/8"	3/8"	----	----	3/8" TEMPERED OUTLET, MAX OUTLET TEMP. 105°F IN ACCORDANCE WITH NSF/ANSI 61-9 AND AND 1070, AND NSF/ANSI 61.9.
WC	HANDICAP WATER CLOSET	ZURN MODEL Z5560 17" H ELONGATED PRESSURE ASSIST 1.6 G.P.F.	1/2"	----	3"	2"	FURNISH ADA CLOSET & TANK, ADA OPEN FRONT SEAT, SELF SUSTAINING HINGE, FLOOR FLANGE, CLOSET BOLTS & CAPS, WAX RING, SUPPLY STOP & TUBE. FLUSH CONTROL MUST BE LOCATED ON THE WIDE/ACCESS SIDE OF THE WC (SIDE OPPOSITE THE WALL).
WH	ELECTRIC WATER HEATER	RHEEM MODEL NO. ECSP10 WITH OATEY 34079 DRAIN PAN AND ZURN VR10 VACUUM RELIEF VALVE	3/4"	3/4"	----	----	FURNISH 10 GALLON SHORT WATER HEATER, 120V/1PH, 1,500 W ELEMENT WITH T & P RELIEF VALVE AND INTEGRAL HEAT TRAPS.

NOTE: INSTALL ALL PLUMBING FIXTURES TO BE FULLY ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES IN ACCORDANCE WITH LATEST ISSUE OF THE AMERICANS WITH DISABILITIES ACT AND ALL CURRENT STATE AND LOCAL CODES. - "PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE" AND/OR GOVERNING CODES. - ALL PLUMBING FIXTURES EQUIPMENT, TRIM, & FITTINGS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES. THE SCHEDULED AND/OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID. IF THE SCHEDULED OR SPECIFIED FIXTURES OR EQUIPMENT DO NOT COMPLY WITH GOVERNING CODES OR REGULATIONS IN ALL RESPECTS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR COMPLYING FIXTURES, EQUIPMENT, TRIM, OR FITTINGS. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTOR'S BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS & CODES.

ALL PIPING AND VALVES BELOW LAVATORY SHALL BE INSULATED WITH PVC LAV GUARDS AND CONFIGURED TO PROTECT AGAINST CONTACT PROVIDED WITH LAV KIT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY.

NOTE TO CONTRACTORS

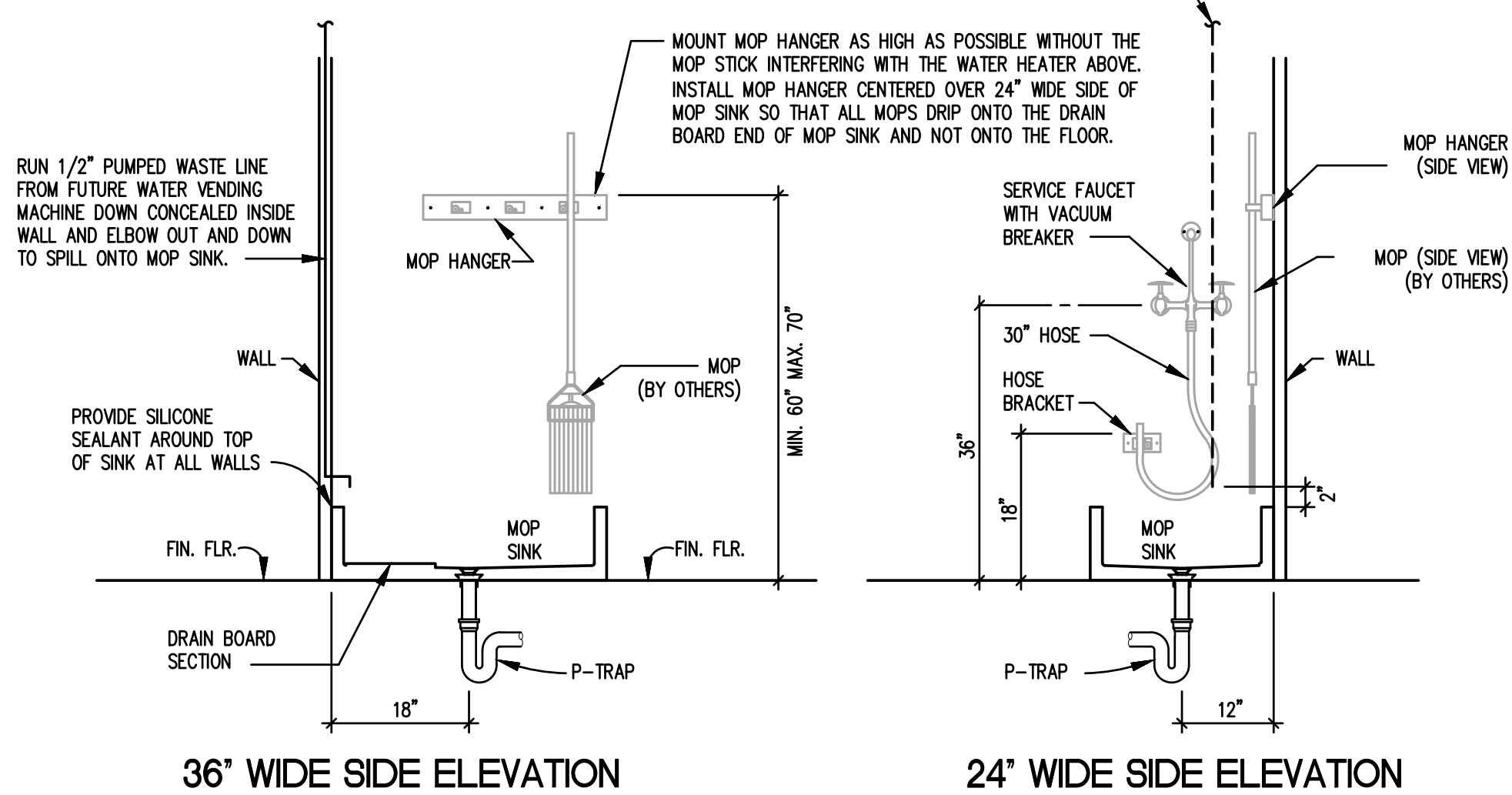
- RUN ALL ELECTRICAL CONDUITS, PLUMBING PIPING SO AS NOT TO INTERFERE WITH STORE FIXTURE EQUIPMENT LAYOUTS, OR ANY OTHER FAMILY DOLLAR EQUIPMENT.
- CONTRACTORS TO ROUTE ALL CONDUITS, PLUMBING PIPING TIGHT TO STRUCTURE AND PERPENDICULAR TO WALL IN AN ORDERLY MANNER.



- NOTES:
- INSTALL WATER HEATER PER MANUFACTURER REQUIREMENTS.
 - PROVIDE HEAT TRAP ON CW AND HW LINES PER ENERGY CODE.
 - LOCATE WATER HEATER ABOVE MOP SINK WITH 6'-8" CLEAR TO THE BOTTOM OF THE WATER HEATER SUPPORT PLATFORM.

3 WATER HEATER DETAIL NO SCALE

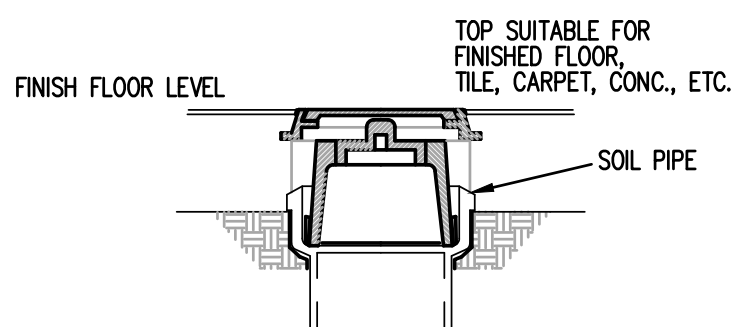
FOR FAMILY DOLLAR STORES LOCATED IN THE FOLLOWING STATES ONLY, PROVIDE 1/2" PUMPED WASTE LINE FROM FUTURE WATER VENDING MACHINE TIGHT TO BOTTOM OF STRUCTURE TO MOP SINK. ARIZONA, CALIFORNIA, COLORADO, FLORIDA, NEVADA, NEW MEXICO AND TEXAS.



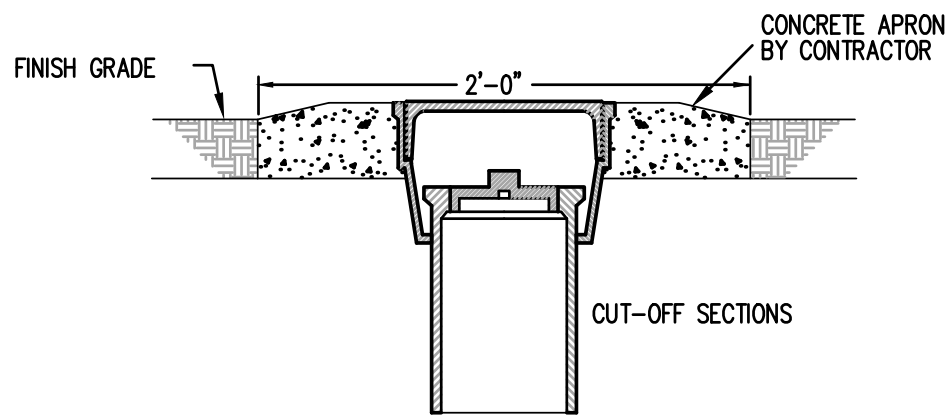
4 MOP SINK DETAIL NO SCALE

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Harold Daniel Hutter III
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oviedo, fl 32765 phone 321-244-0402



1 INTERIOR CLEANOUT DETAIL NO SCALE (FCO)



2 EXTERIOR CLEANOUT DETAIL NO SCALE (GCO)

ARCHITECT / ENGINEER
ADAM JOSEPH BARNEY, PE

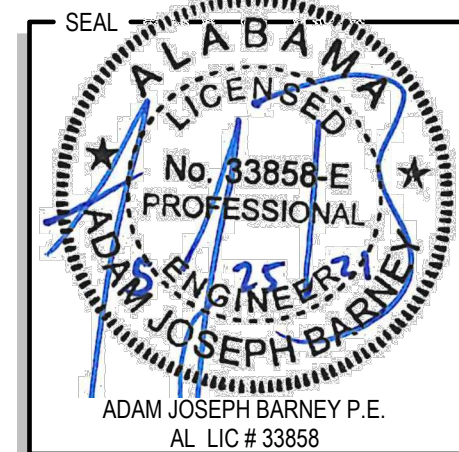
118 Harwood Ave Suite #3000
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Phone: (321) 972-4466

CLIENT NAME
PERMAN ENGINEERING CO. LLC
ENGINEERS-CONTRACTORS-DEVELOPERS

2425 LUMBEY ROAD
RAINBOW CITY, AL, 35906

PROJECT NAME
FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.

US HIGHWAY 441
CENTRE, ALABAMA



RELEASE	DATE

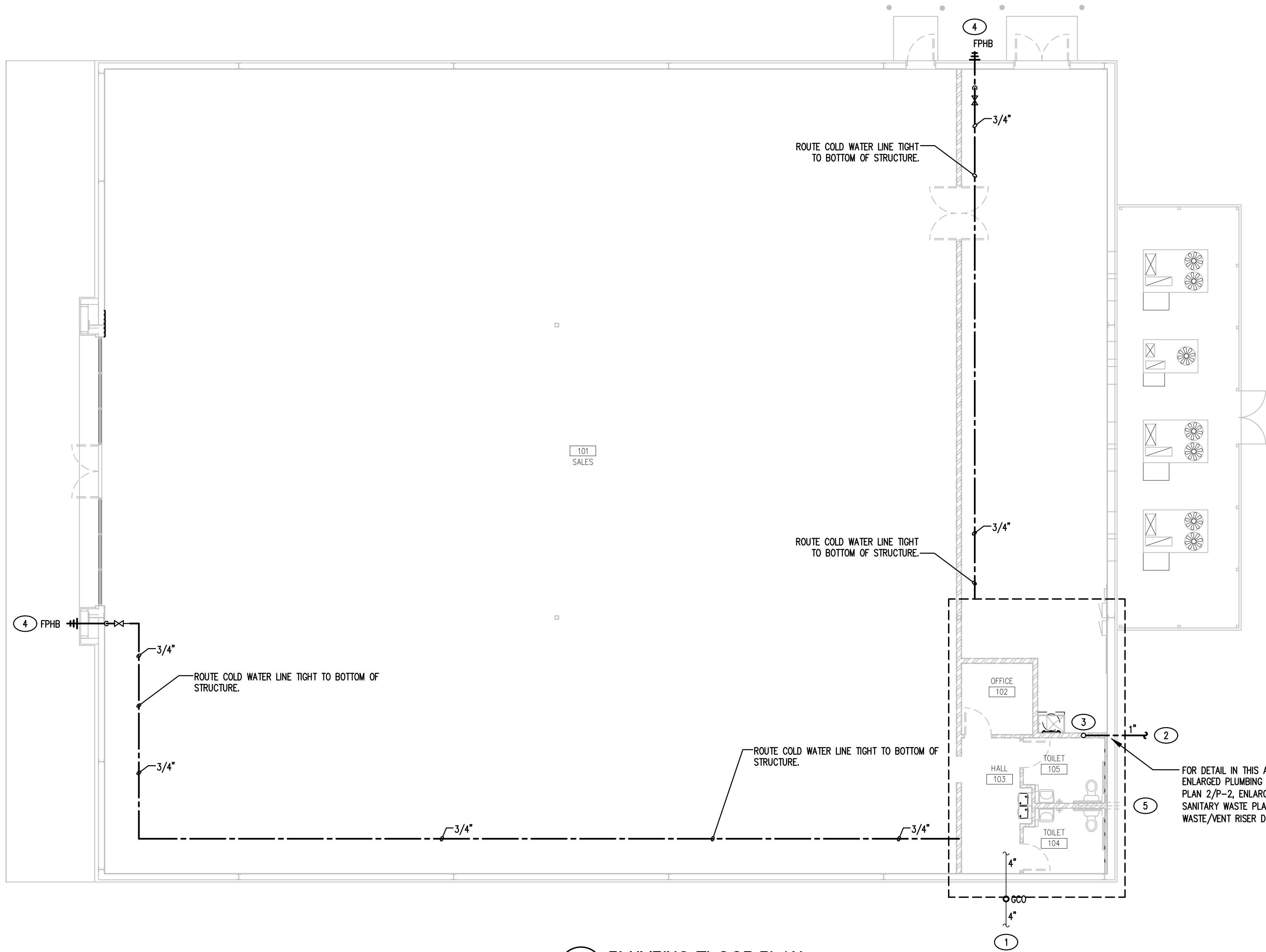
PROJECT NO.
2021-056

ISSUE DATE
05-21-21

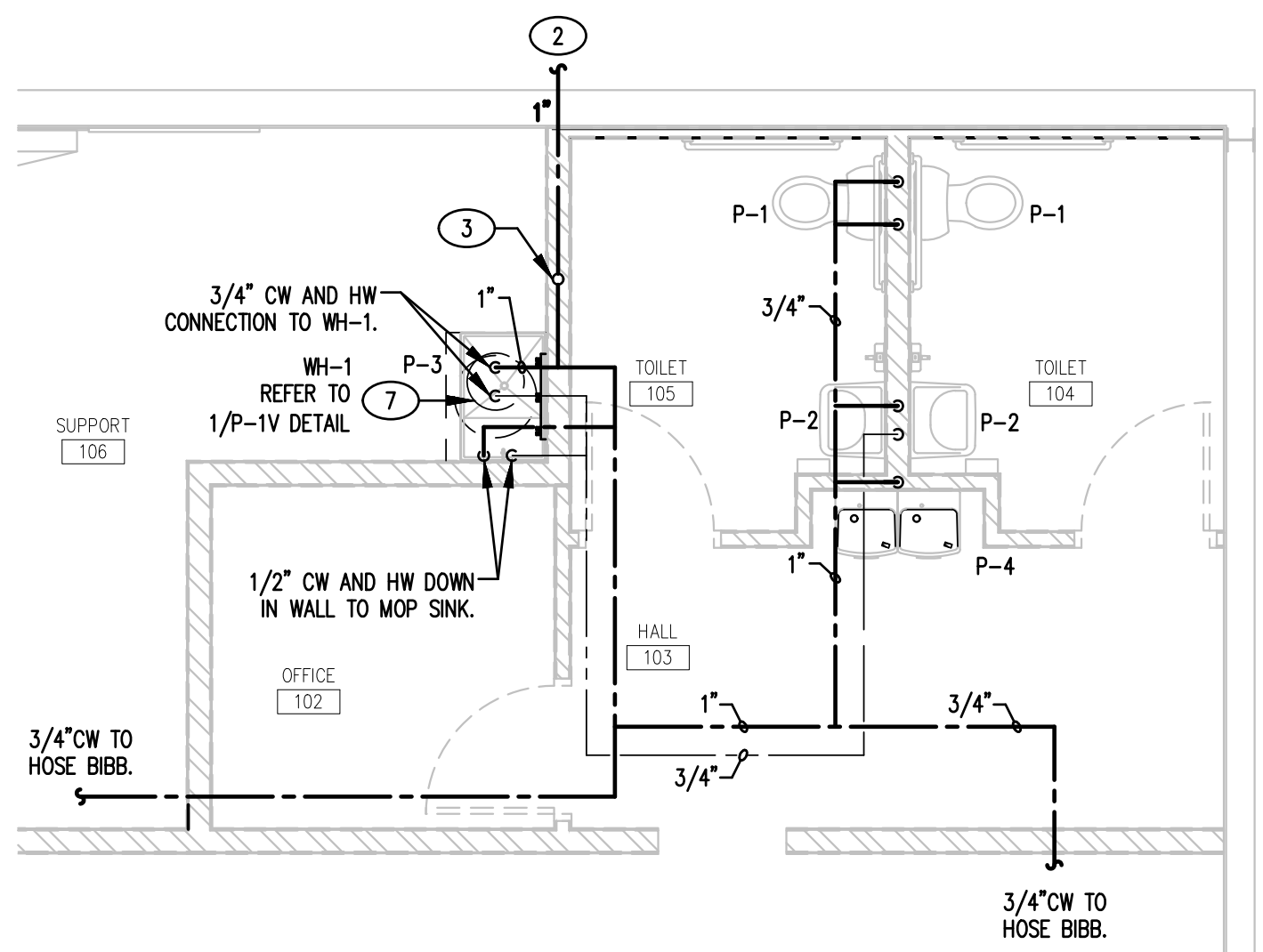
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SHEET NO.
P-1V

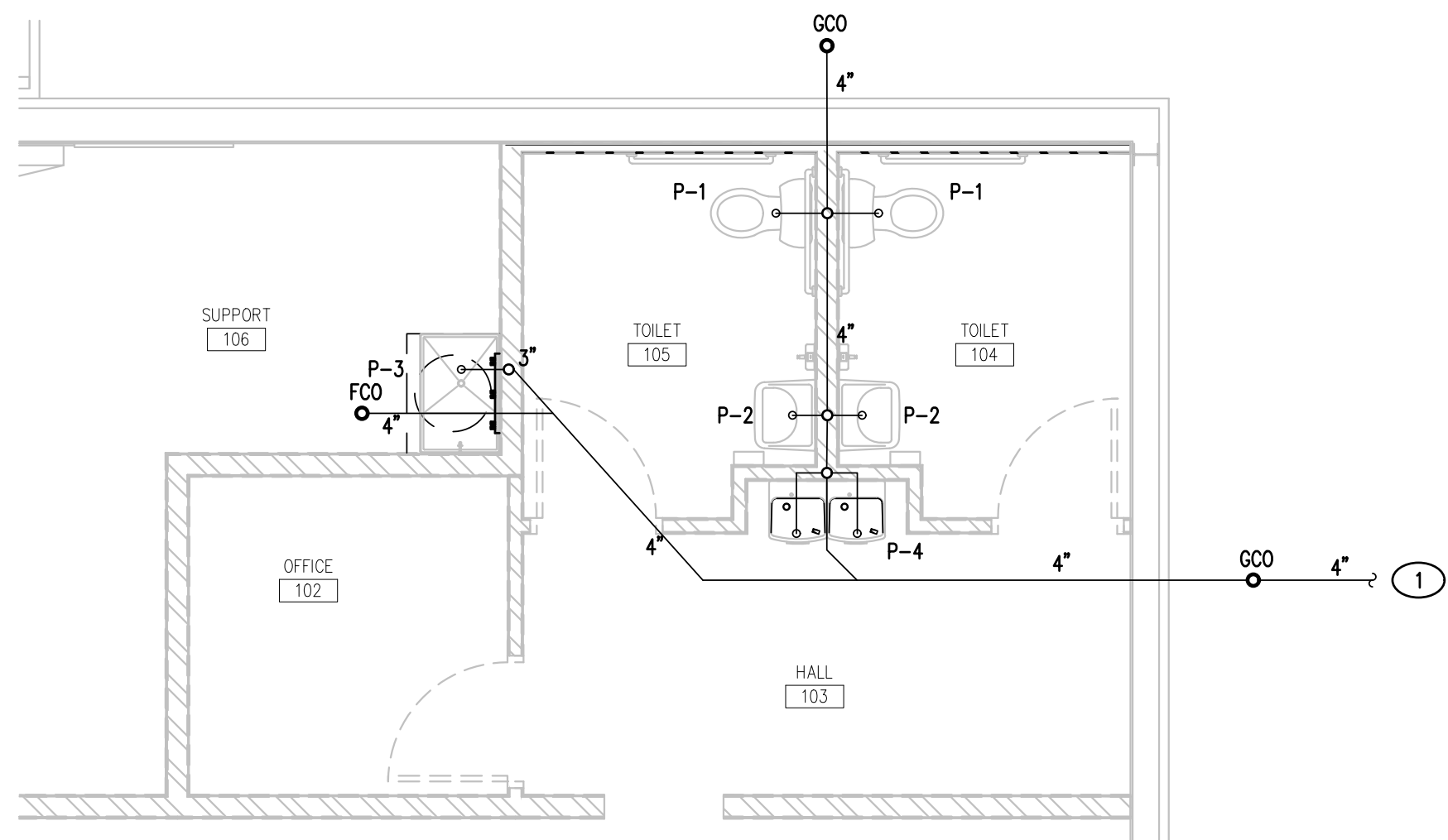
PLUMBING NOTES, SCHEDULE AND DETAILS



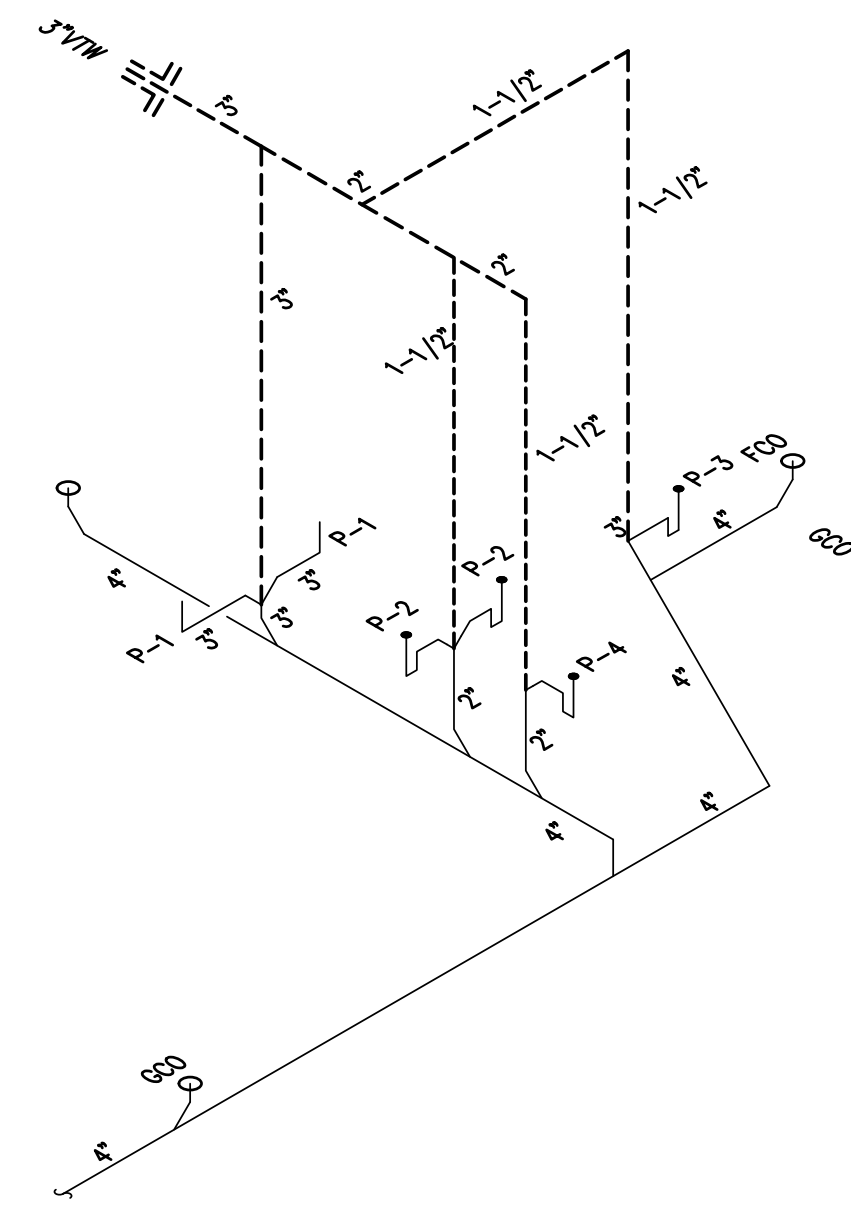
1 PLUMBING FLOOR PLAN
1/8" = 1'-0"



2 ENLARGED WATER SUPPLY PLAN
1/4" = 1'-0"



3 ENLARGED SANITARY WASTE PLAN
1/4" = 1'-0"



4 WASTE/VENT RISER
NO SCALE (OPP. HND)

PLUMBING PLAN KEYED NOTES

- 4" SANITARY SEWER. CONNECT TO SANITARY SEWER SYSTEM. FIELD COORDINATE ROUTING, CONNECTION POINT AND INVERT ELEVATION WITH LOCAL UTILITY AND AUTHORITIES HAVING JURISDICTION, CONTRACTORS AND UTILITY PLANS PRIOR TO BEGINNING CONSTRUCTION.
- 1" DOMESTIC WATER SERVICE LINE. PROVIDE 3/4" WATER TAP AND METER WITH 1" WATER LINE RUN FROM METER TO BUILDING. FIELD COORDINATE ROUTING, CONNECTION POINT AND WATER METER AND BACKFLOW PREVENTER REQUIREMENTS AND LOCATION WITH LOCAL UTILITY AND AUTHORITIES HAVING JURISDICTION, CONTRACTORS AND UTILITY PLANS PRIOR TO BEGINNING CONSTRUCTION.
- 1" DOMESTIC WATER UP THRU SLAB WITH SHUT-OFF VALVE IN VERTICAL RISE 18"-24" AFF PER LOCAL WATER UTILITY COMPANY REQUIREMENTS. PROVIDE PRESSURE REDUCING VALVE AFTER MAIN SHUT-OFF IF WATER PRESSURE EXCEEDS 80 PSI. PROVIDE ACCESS PANEL IN WALL.
- FOR NON-FREEZING AREAS, PROVIDE RECESSED BOX TYPE HOSE BIBB EQUAL TO WOODFORD B24 WITH ANTI-SIPHON VACUUM BREAKER. FOR AREAS SUBJECT TO FREEZING TEMPERATURES, PROVIDE RECESSED BOX TYPE FREEZELESS HOSE BIBB EQUAL TO WOODFORD MODEL B65 WITH AUTOMATIC DRAINING ANTI-SIPHON VACUUM BREAKER. LOCATE HOSE BIBB ON SAME SIDE OF BUILDING AS RESTROOM LOCATION AND ADJACENT TO FUTURE OUTDOOR WATER VENDING MACHINE (IF PRESENT). ROUTE INSULATED 3/4" COLD WATER LINE CONCEALED UP IN WALL TO 12'-6" AFF AND STUB OUT, PROVIDE SHUT-OFF VALVE AND CONNECT TO COLD WATER.
- 3" VENT THRU WALL. DO NOT PENETRATE ROOF. TERMINATE VENT THRU WALL 6" FROM EXTERIOR FACE OF WALL AND MINIMUM 10'-0" ABOVE AVERAGE GRADE LEVEL. VENT THRU WALL SHALL BE LOCATED MINIMUM 10'-0" FROM HVAC FRESH AIR INTAKES. COVER VENT OPENING WITH WIRE MESH SCREEN. SEAL AND CAULK OPENINGS AROUND VENT. PAINT TO MATCH EXTERIOR. PROVIDE VENT THRU ROOF ONLY IN JURISDICTIONS OR STATES WHERE A PLUMBING VENT THRU WALL IS NOT ALLOWED BY CODE OR WHERE MINIMUM DISTANCE FROM PLUMBING VENT THRU WALL TO PROPERTY LINE DOES NOT MEET CODE.
- NOT USED
- ALTERNATE INTERIOR LOCATION OF WATER METER AND BACKFLOW PREVENTER ONLY IF REQUIRED TO BE LOCATED INSIDE PER LOCAL WATER AUTHORITY. INSTALL IN SPACE BETWEEN FUTURE MOP SINK LOCATION AND EDGE OF FUTURE COMMUNICATION BOARD.

PLUMBING LEGEND

- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING
- VENT PIPING
- WASTE (SANITARY SEWER)
- PUMP WASTE (PW)
- FULL PORT SHUT-OFF VALVE
- CHECK VALVE
- PIPE UP
- PIPE DOWN
- POINT OF CONNECTION TO EXISTING.

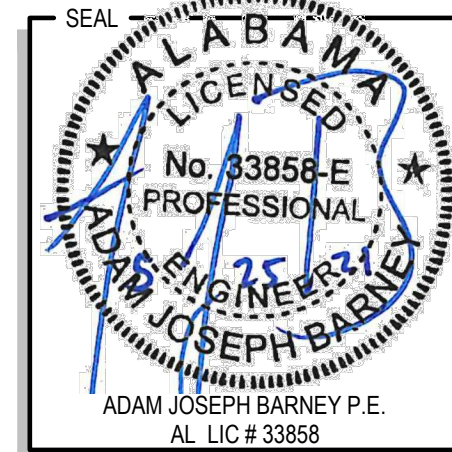
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RELEASE	DATE
PROJECT NO.	2021-056
ISSUE DATE	05-21-21
DRAWN	CHECKED
SHEET NO.	P-2V

ARCHITECT / ENGINEER
ADAM JOSEPH BARNEY, PE

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PLUMBING PLAN AND DETAILS

HVAC GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND PER MANUFACTURER'S DIRECTIONS.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- DO NOT SCALE DRAWINGS FOR MEASUREMENTS.
- ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).
- SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE.
- ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICE(S) FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT.
- LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).
- PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
- REFER TO MECHANICAL DUCTWORK AND INSULATION NOTES ON MECHANICAL FLOOR PLAN FOR DUCTWORK INSULATION REQUIREMENTS.
- CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE AND FD PROJECT MANAGER WITH COMPLETE BALANCE REPORT. IF BALANCING DAMPERS ARE NOT PROVIDED IN RETURN DUCTWORK, CONTRACTOR SHALL BALANCE SUPPLY SIDE TO AIR QUANTITIES INDICATED ON PLANS AND SHALL BALANCE OUTSIDE AIR AND RETURN AIR FLOWS AT THE AIR HANDLER TO AIR QUANTITIES INDICATED IN THE SCHEDULE. PROVIDE NEW AIR FILTERS FOR EACH UNIT.
- AS REQUIRED BY LOCAL CODES, CONTRACTOR SHALL PROVIDE U.L. LISTED FIRE DAMPERS WHERE REQUIRED FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM & THE UL ASSEMBLY.
- PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.
- ALL ACTUATORS ON MOTORIZED DAMPERS, SMOKE DAMPERS, AND FIRE-SMOKE DAMPERS SHALL BE LOW VOLTAGE UNLESS OTHERWISE NOTED.
- REFER TO APPENDIX B FOR SITE SEISMIC CLASSIFICATION. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES (OR EQUAL) AND SEALED BY THEIR REGISTERED ENGINEER AND INSTALLED BY THIS CONTRACTOR AS REQUIRED BY APPLICABLE CODES FOR THE LOCALITY OF THIS PROJECT. SEISMIC RESTRAINTS FOR SEISMIC CLASSES D, E, AND F SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO INSTALLATION.
- ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. RUNOUTS (CONCEALED ABOVE CEILINGS) FROM MAIN BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAXIMUM 10'-0" FLEX PER RUNOUT.
- THE CONTRACTOR SHALL PROVIDE LOW VOLTAGE CONTROL LINES TO THE PACKAGE UNIT. COORDINATE ROUTING AND INSTALLATION.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PAINT ALL VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- PENETRATIONS OF RATED WALLS, PARTITIONS AND FLOORS OF NON-COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH NONCOMBUSTIBLE MATERIALS. PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
- CONTRACTOR RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR MECHANICAL EQUIPMENT.

PACKAGED AC UNIT SCHEDULE

UNIT NO.	TONS	SUPPLY - FAN DATA						HEATING CAPACITY		COOLING CAPACITY		ELECTRICAL DATA			MANUFACTURER & MODEL	-	EER	UNIT WEIGHT(LBS)	NOTES
		TOTAL CFM	O/A CFM	MIN.EXT. S.P. (IN.WG)	FAN RPM	MOTOR BHP		KW	STAGES	TOTAL MBH	SENSIBLE MBH	VOLT/PH	MAX FUSE	MCA					
AC-1, AC-4	8.5	3400	700	0.8	MFG.	1.7		18.6	2	103.6	81.0	208/3	80	72	CARRIER 50HC-D09	-	12.0	915	1,2,3,5,6,7
AC-2	4	1600	150	0.8	MFG.	1.7		12	2	47.7	37.0	208/3	50	49	CARRIER 50HC-A05	-	13.0	590	1,2,3,5,6,7
AC-3	10	4000	700	0.8	MFG.	2.4		24	2	119.5	89.6	208/3	90	67	CARRIER 50HC-D12	-	11.5	1090	1,2,3,5,6,7

NOTES:

- HVAC UNITS SHALL BE PROVIDED BY CONTRACTOR.
- REFER TO HVAC EQUIPMENT NATIONAL ACCOUNT NOTE FOR ADDITIONAL CONTRACTOR REQUIREMENTS.
- PACKAGED UNITS SHALL BE ELECTRIC HEAT.
- NOT USED
- MINIMUM OF FOUR (4) HVAC UNITS SHALL BE PROVIDED AS FOLLOWS. MINIMUM THREE (3) HVAC UNITS SHALL BE PROVIDED FOR SALES AREA. ONE (1) DEDICATED HVAC UNIT SHALL BE PROVIDED TO SERVE ONLY THE SUPPORT AREA, OFFICE AND RESTROOMS.
- HVAC UNITS SHALL BE FURNISHED WITH THE FOLLOWING OPTIONS/ACCESSORIES:
FACTORY INSTALLED DISCONNECT SWITCH.
FACTORY INSTALLED NON-POWERED WEATHERPROOF GFCI CONVENIENCE OUTLET.
FIELD INSTALLED ENTHALPY ECONOMIZER WITH 100% BAROMETRIC RELIEF CAPABILITY.
FACTORY INSTALLED DIFFERENTIAL ENTHALPY CONTROLS.
FACTORY INSTALLED UNIT MOUNTED CO2 SENSOR.
FACTORY INSTALLED CONDENSER COIL LOUVERED HAIL GUARDS.
FIELD INSTALLED FLUE DISCHARGE DEFLECTOR WITH EXTENSION TO PROVIDE MINIMUM 3' VERTICAL SEPARATION BETWEEN TOP OF FLUE VENT DISCHARGE AND ADJACENT OUTSIDE AIR OPENING UNITS 7.5 TONS AND LARGER SHALL BE PROVIDED WITH TWO (2) STAGES OF COOLING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STARTUP AND WARRANTY WORK. VERIFY ELECTRICAL POWER PRIOR TO INSTALLING UNITS. FAILURE TO DO SO SHALL RESULT IN CONTRACTOR FURNISHING CORRECT UNITS OR POWER AT NO ADDITIONAL COST TO TENANT.

FAN SCHEDULE

UNIT NO.	SERVICE	AREA SERVED	CFM	S.P.	RPM	TYPE & ARRANGEMENT	WATTS & VOLTAGE	MANUFACTURER & MODEL NO.	DRIVE	CONTROL SCHEME	NOTES
EF-1	EXHAUST	RESTROOMS	75 MIN.	0.25"	950	CEILING	19 WATTS 120/1ø	GREENHECK SP-A110	DIRECT	A	1,2,3,4,5

NOTES:

- INTEGRAL BACKDRAFT DAMPER.
- INTEGRAL DISCONNECT SWITCH
- SPEED CONTROLLER LOCATED ABOVE CEILING NEAR FAN
- MODEL RDC - ROUND DUCT CONNECTOR WITH DAMPER.
- WC-6 HOODED WALL CAP WITH BUILT-IN BIRDSCREEN AND BACKDRAFT DAMPER. SEAL AND CAULK. PAINT TO MATCH EXTERIOR.

CONTROL OPTIONS:

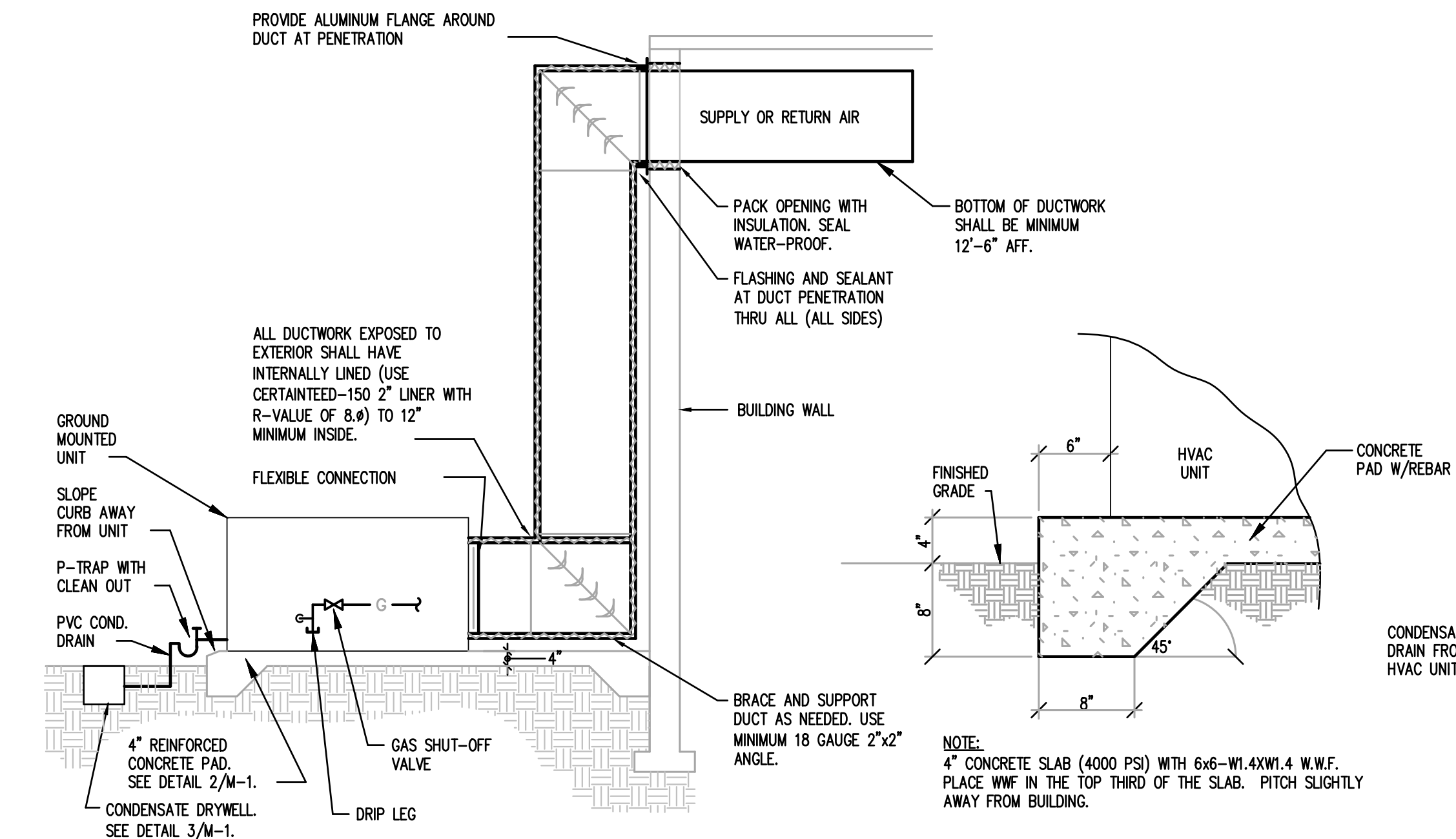
- A. CONTROL W/ ROOM LIGHTS

DIFFUSER SCHEDULE

SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
A	SEE PLANS	SEE PLANS	12x12	SURFACE	4-WAY	YES	ALUMINUM	SUPPLY	WHITE	METALAIR 5700	1
B	SEE PLANS	SEE PLANS	24x24	LAY-IN	4-WAY	YES	ALUMINUM	SUPPLY	WHITE	METALAIR 5700	1
C	SEE PLANS	SEE PLANS	SEE PLANS	SURFACE	DOUBLE DEFLECTION	YES	ALUMINUM	SUPPLY	WHITE	METALAIR V4004D	1
D	SEE PLANS	SEE PLANS	SEE PLANS	LAY-IN	NA	NO	ALUMINUM	RETURN	WHITE	METALAIR CC1	1
E	SEE PLANS	SEE PLANS	SEE PLANS	SURFACE	-	NO	ALUMINUM	TRANSFER	WHITE	METALAIR RH	1
F	SEE PLANS	SEE PLANS	SEE PLANS	DOOR	-	NO	ALUMINUM	TRANSFER	WHITE	METALAIR DG DF	1

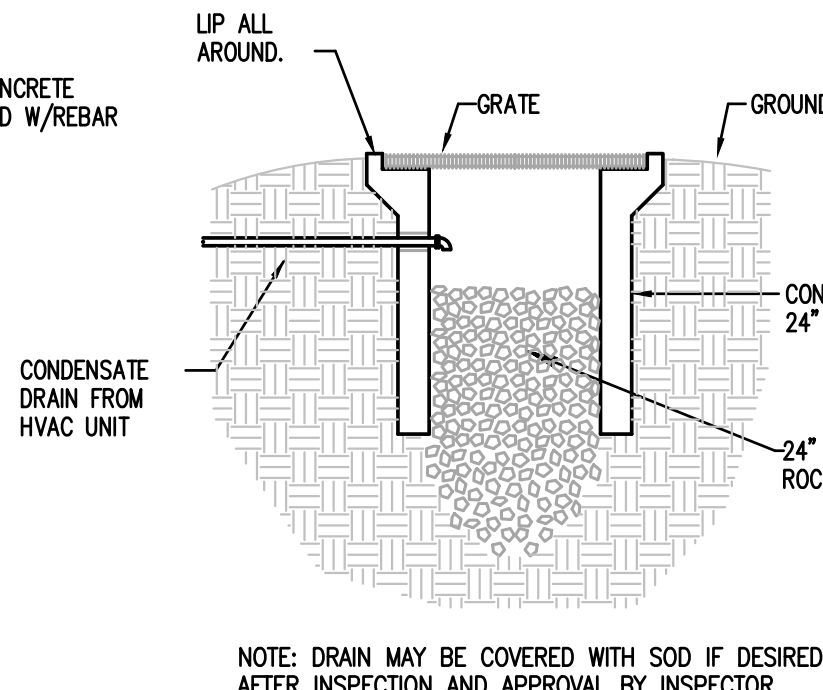
NOTES:

- DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:
DIFFUSER OR NECK SIZE: 8x4 A DIFFUSER TYPE AS NOTED ABOVE
AIR QUANTITY: 75

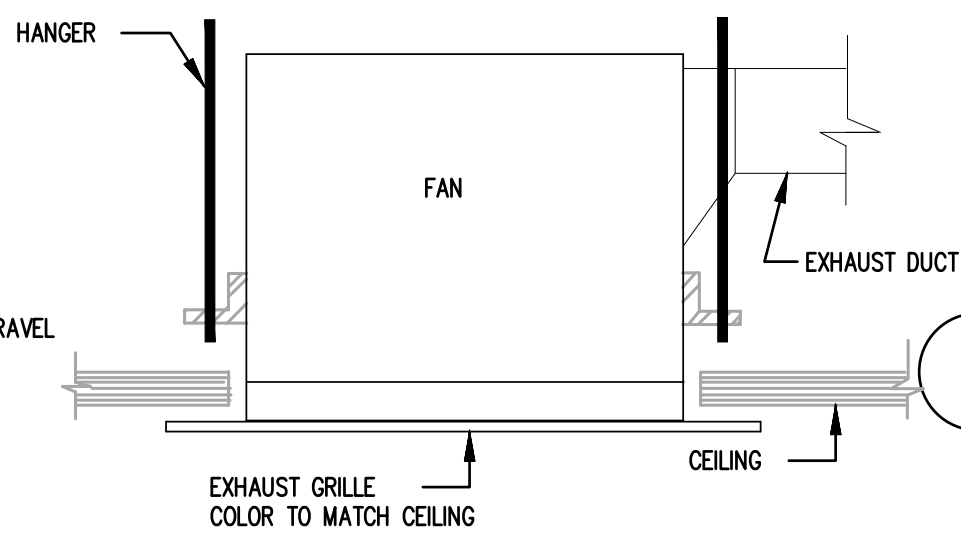


1 GROUND MOUNTED PACKAGED UNIT
NOT TO SCALE

2 HVAC UNIT PAD DETAIL
NO SCALE



3 CONDENSATE DRY WELL
NO SCALE



4 EXHAUST FAN DETAIL
NO SCALE

NOTE TO CONTRACTORS

- RUN ALL ELECTRICAL CONDUITS, PLUMBING PIPING SO AS NOT TO INTERFERE WITH STORE FIXTURE EQUIPMENT LAYOUTS, OR ANY OTHER FAMILY DOLLAR EQUIPMENT.
- CONTRACTORS TO ROUTE ALL CONDUITS, PLUMBING PIPING TIGHT TO STRUCTURE AND PERPENDICULAR TO WALL IN AN ORDERLY MANNER.

VENTILATION CALCULATIONS (90x102 STORE)

CALCULATIONS BASED ON THE 2015 MECHANICAL CODE TABLE 403.3

RETAIL SALES: BREATHING ZONE OUTDOOR AIRFLOW (AC-1, AC-3, AC-4)

ZONE FLOOR AREA: 8908 SQ FT
OCCUPANT DENSITY: 15 PEOPLE PER 1,000 SQ FT
PEOPLE OUTDOOR AIRFLOW RATE: 7.5 CFM PER PERSON
AREA OUTDOOR AIRFLOW RATE: 0.12 CFM PER SQ FT

$$V_{bz} = R_p P_z + R_a A_z$$

$$V_{bz} = 7.5 (15/1,000 \times 8908) + (0.12 \times 8908)$$
$$V_{bz} = 1002 \text{ CFM} + 1069 \text{ CFM} = 2071 \text{ CFM}$$

AC-1, AC-2, AC-4 OUTDOOR AIR REQUIRED = 2071 CFM
OUTDOOR AIR PROVIDED = 2100 CFM

SHIPPING RECEIVING: BREATHING ZONE OUTDOOR AIRFLOW (AC-2)

ZONE FLOOR AREA: 875 SQ FT
AREA OUTDOOR AIRFLOW RATE: 0.12 CFM PER SQ FT

$$V_{bz} = 875 \times 0.12 = 105 \text{ CFM}$$

OFFICE SPACE:

ZONE FLOOR AREA: 64 SQ FT
OCCUPANT DENSITY: 5 PEOPLE PER 1,000 SQ FT
PEOPLE OUTDOOR AIRFLOW RATE: 5 CFM PER PERSON
AREA OUTDOOR AIRFLOW RATE: 0.06 CFM PER SQ FT

$$V_{bz} = 5 (5/1,000 \times 64) + (0.06 \times 64)$$
$$V_{bz} = 2 \text{ CFM} + 4 \text{ CFM} = 6 \text{ CFM}$$

CORRIDOR (VESTIBULE):

ZONE FLOOR AREA: 75 SQ FT
AREA OUTDOOR AIRFLOW RATE: 0.06 CFM PER SQ FT

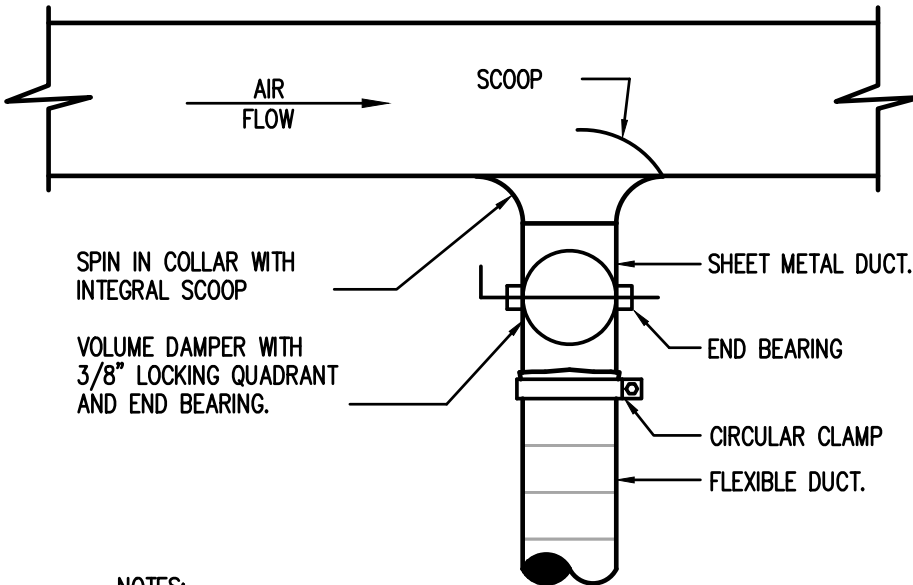
$$V_{bz} = 75 \times 0.06 = 5 \text{ CFM}$$

AC-3 OUTDOOR AIR REQUIRED = 105 CFM + 6 CFM + 5 CFM = 116 CFM
OUTDOOR AIR PROVIDED = 150 CFM

RESTROOM EXHAUST (EF-1)

70 CFM PER WATER CLOSET OR URINAL
(2) WATER CLOSETS $\times$ 70 CFM = 140 CFM

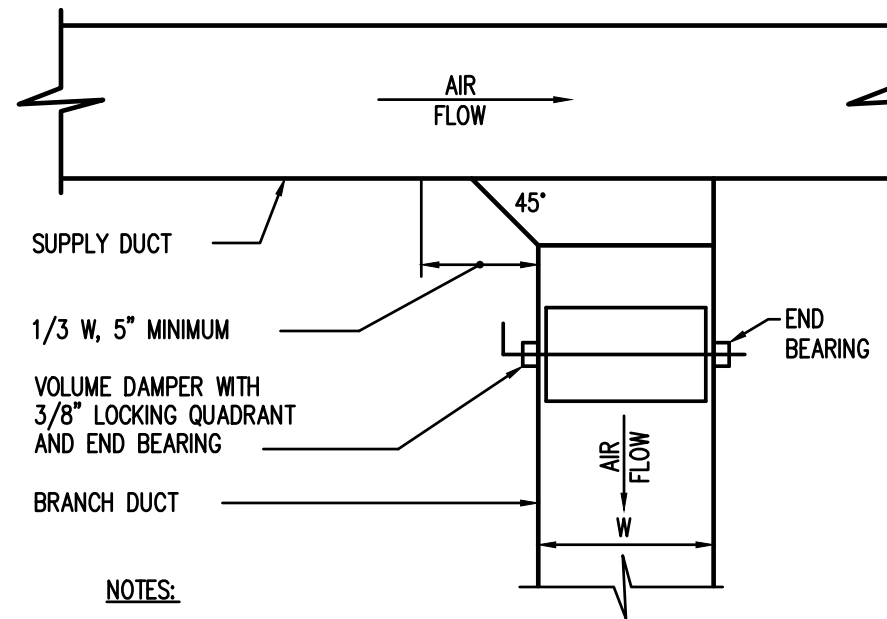
(2) EF-1: (75 CFM EA) EXHAUST REQUIRED = 140 CFM
EXHAUST PROVIDED = 150 CFM



NOTES:

- SEE FLOOR PLANS AND SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
- TAP OFF TOP/SIDE/BOTTOM OF DUCT AS REQUIRED

5 BRANCH TAKEOFF TO SINGLE OUTLET
NO SCALE



NOTES:

- SEE FLOOR PLANS AND SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
- TAP OFF TOP/SIDE/BOTTOM OF DUCT AS REQUIRED

6 BRANCH TAKEOFF
NO SCALE

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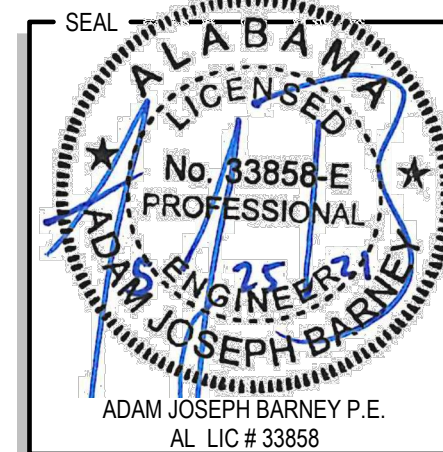
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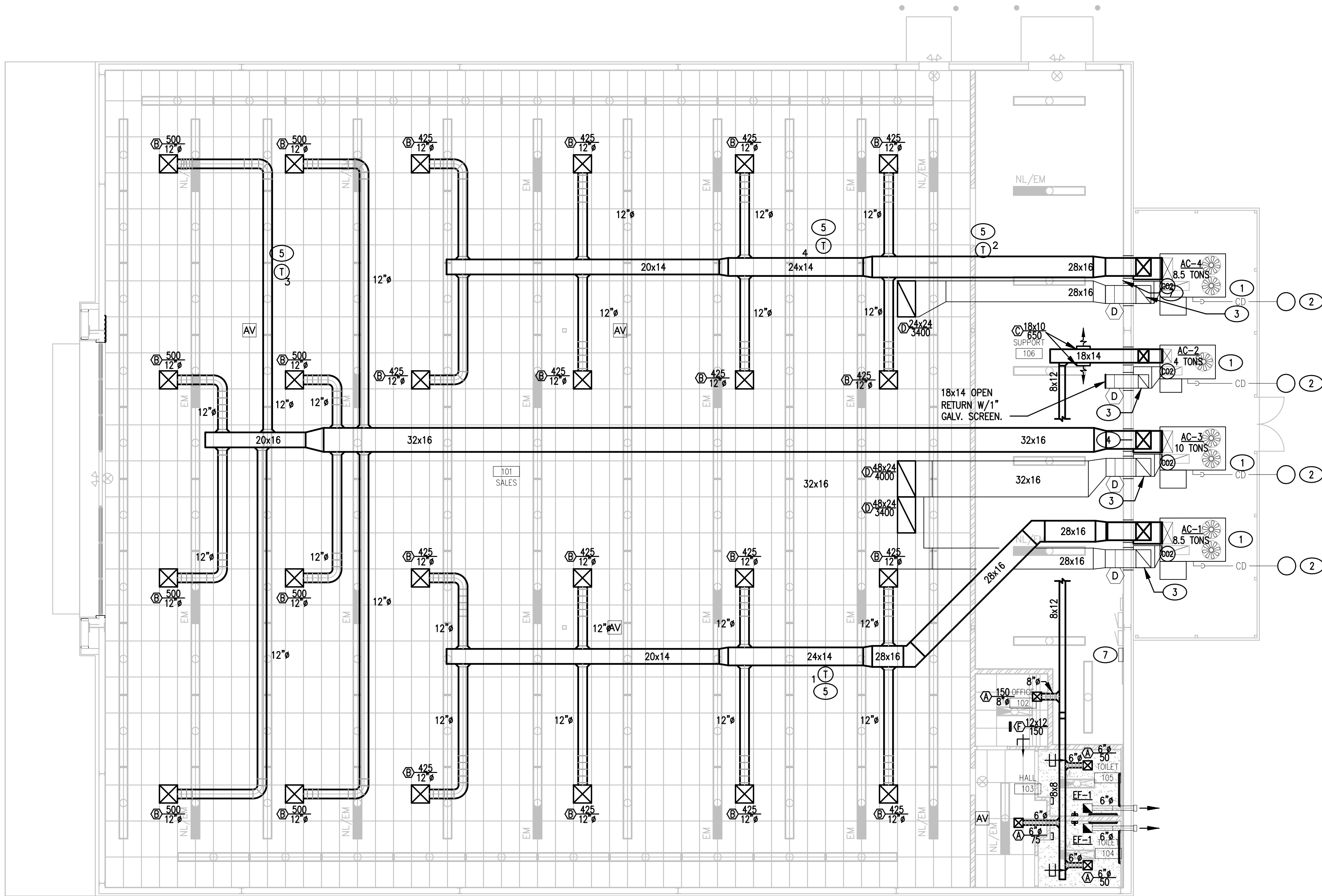
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M-1V

MECHANICAL SCHEDULE, NOTES & DETAILS



10,500SF / 26 TONS =
353 SF/TON

b90x102
1 MECHANICAL FLOOR PLAN
3/32" = 1'-0"

DUCTWORK COORDINATION NOTE:

FOR THE SALES AREAS, A LAY-IN CEILING IS BEING INSTALLED AT 12'-0" AFF. BOTTOM OF SUPPLY AND RETURN DUCTWORK IN SALES AREA SHALL BE INSTALLED MINIMUM OF 12'-6" AFF.
FOR THE SALES SUPPORT AREA, ROOM WILL BE OPEN TO THE DECK. BOTTOM OF SUPPLY AND RETURN DUCTWORK IN SALES SUPPORT AREA SHALL BE INSTALLED 12'-6" AFF.
FOR THE OFFICE, HALL AND RESTROOMS, A CEILING IS BEING INSTALLED AT 10'-0" AFF. BOTTOM OF SUPPLY AND RETURN DUCTWORK SHALL BE RUN ABOVE CEILING TO ALLOW ADEQUATE ACCESS.
IT IS THE RESPONSIBILITY OF CONTRACTOR TO COORDINATE DUCTWORK SIZES AND LAYOUT WITH METAL BUILDING MANUFACTURER PRIOR TO FABRICATION OF METAL BUILDING. CONTRACTORS SHALL ALSO FIELD VERIFY ACTUAL METAL BUILDING STRUCTURAL ON-SITE CONDITIONS PRIOR TO FABRICATION AND INSTALLATION OF ANY DUCTWORK AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY CONFLICTS/INTERFERENCES. CONTRACTOR SHALL PROVIDE OFFSETS/TRANSITIONS IF NECESSARY. CONTRACTOR MAY ALTER DUCTWORK SIZES IF NECESSARY AS LONG AS DUCTWORK CROSS-SECTIONAL AREA IS MAINTAINED.

MECHANICAL PLAN KEYED NOTES

- CONTRACTOR SHALL PROVIDE HVAC EQUIPMENT, DUCTWORK, CONTROLS AND ACCESSORIES AS INDICATED ON THE PLANS, SCHEDULES AND NOTES. CONTRACTOR SHALL PROVIDE CONCRETE EQUIPMENT PAD TO ACCOMMODATE FOUR (4) HVAC UNITS. COORDINATE PAD LOCATION AND MINIMUM REQUIRED SIZE WITH CIVIL SITE PLAN, PROPERTY LINES, STRUCTURAL CONDITIONS AND ALL CONTRACTORS PRIOR TO BEGINNING CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY ISSUES. CONTRACTOR SHALL PROVIDE FENCING AROUND HVAC EQUIPMENT.
- PROVIDE CONDENSATE DRYWELL. CONTRACTOR SHALL PROVIDE CONDENSATE PIPING FROM HVAC UNIT TO CONDENSATE DRYWELL.
- 24x20 R.A. & S.A. UP WALL AND THRU 30x26 OPENING IN METAL BUILDING WALL. COORDINATE WITH ARCHITECTURAL FOR LOCATION AND FRAMING INFO FOR 30x26 OPENING IN METAL BUILDING WALL (TYP. AC-1,3 & 4)
- 18x14 R.A. & S.A. UP WALL AND THRU 24x20 OPENING IN METAL BUILDING WALL. COORDINATE WITH ARCHITECTURAL FOR LOCATION AND FRAMING INFO FOR 24x20 OPENING IN METAL BUILDING WALL (TYP. AC-2)
- CONTRACTOR TO PROVIDE STANDARD THERMOSTAT FOR INITIAL COMMISSIONING OF HVAC SYSTEM. MOUNT TO CEILING GRID/WALL/COLUMN AS SHOWN ON PLANS. VENSTAR CONTRACTOR WILL REPLACE THERMOSTAT WITH PERMANENT SENSORS AT TIME OF VENSTAR INSTALLATION.
- NOT USED
- FUTURE ENERGY MANAGEMENT SYSTEM (EMS). FUTURE EMS SHALL BE PROVIDED AT TIME OF FUTURE FD UPGRADE.

MECHANICAL DUCTWORK AND INSULATION NOTES

DUCTWORK SHALL BE GALVANIZED SHEET METAL FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA RECOMMENDATIONS. FIBERGLASS DUCTBOARD SHALL NOT BE USED AND WILL NOT BE ACCEPTED.

DUCTWORK SHALL BE INSULATED AS FOLLOWS:

EXTERIOR RECTANGULAR DUCTWORK

ALL EXTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED (USE CERTAINTED-150 2" LINER WITH R-VALUE OF 8) TO 12" MINIMUM INSIDE.

INTERIOR RECTANGULAR DUCTWORK (EXPOSED IN THE SUPPORT AREA)

ALL INTERIOR RECTANGULAR SUPPLY AND RETURN DUCTWORK EXPOSED IN THE SUPPORT AREA SHALL PROVIDED WITH 1" LINER.

ALL CONCEALED DUCTWORK ABOVE LAY-IN CEILING

ALL CONCEALED DUCTWORK RUN ABOVE LAY-IN CEILING SHALL BE WRAPPED WITH 2" FIBERGLASS INSULATION.

INTERNAL INSULATION SHALL BE MINIMUM 1" THICK 1-1/2 PCF FIBERGLASS, NEOPRENE COATED, AND ADHERED WITH AN APPROVED ADHESIVE WITH 100% COVERAGE AND STICK CLIPS ON 12" CENTERS. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C 665. SHEET METAL SIZES SHALL BE INCREASED ACCORDINGLY TO ALLOW FOR DUCT LINER.

MECHANICAL LEGEND

- 18x14 RECTANGULAR DUCT
- 6" ROUND METAL DUCT
- 6" FLEX/RIGID ROUND DUCT
- ELBOW WITH TURNING VANES
- VOLUME DAMPER
- SUPPLY TAP WITH VOLUME DAMPER
- SUPPLY TAP
- SUPPLY DIFFUSER/GRILLE
- RETURN REGISTER/GRILLE
- EXHAUST REGISTER/GRILLE
- VERTICAL SUPPLY DUCT
- VERTICAL RETURN DUCT
- VERTICAL EXHAUST DUCT
- SIDEWALL DIFFUSER/GRILLE
- MECHANICAL EQUIPMENT TYPE XX
- CEILING EXHAUST FAN
- THERMOSTAT
- DUCT SMOKE DETECTOR. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS.
- CO2 SENSOR FURNISHED WITH HVAC UNIT.
- LOUVERED DOOR (SEE ARCHITECTURAL DRAWINGS)
- 1" DOOR UNDER CUT
- U.L. FIRE DAMPER
- AUDIO/VISUAL DEVICE TIED TO DUCT SMOKE DETECTOR. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS.

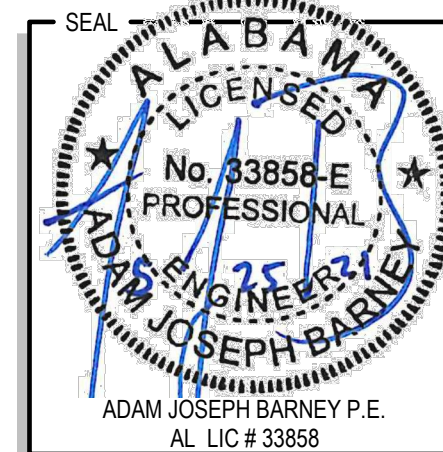
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CLIENT NAME
PERMAN ENGINEERING CO. LLC
ENGINEERS-CONTRACTORS-DEVELOPERS
2425 LUMBURY ROAD
RAINBOW CITY, AL, 35906

PROJECT NAME
FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA

SHEET TITLE
MECHANICAL PLAN



RELEASE	DATE

PROJECT NO.
2021-056

ISSUE DATE
05-21-21

DRAWN	CHECKED

SHEET NO.
M-2V

Ingenuity Designs, LLC
architecture & design
insight, innovate, illuminate

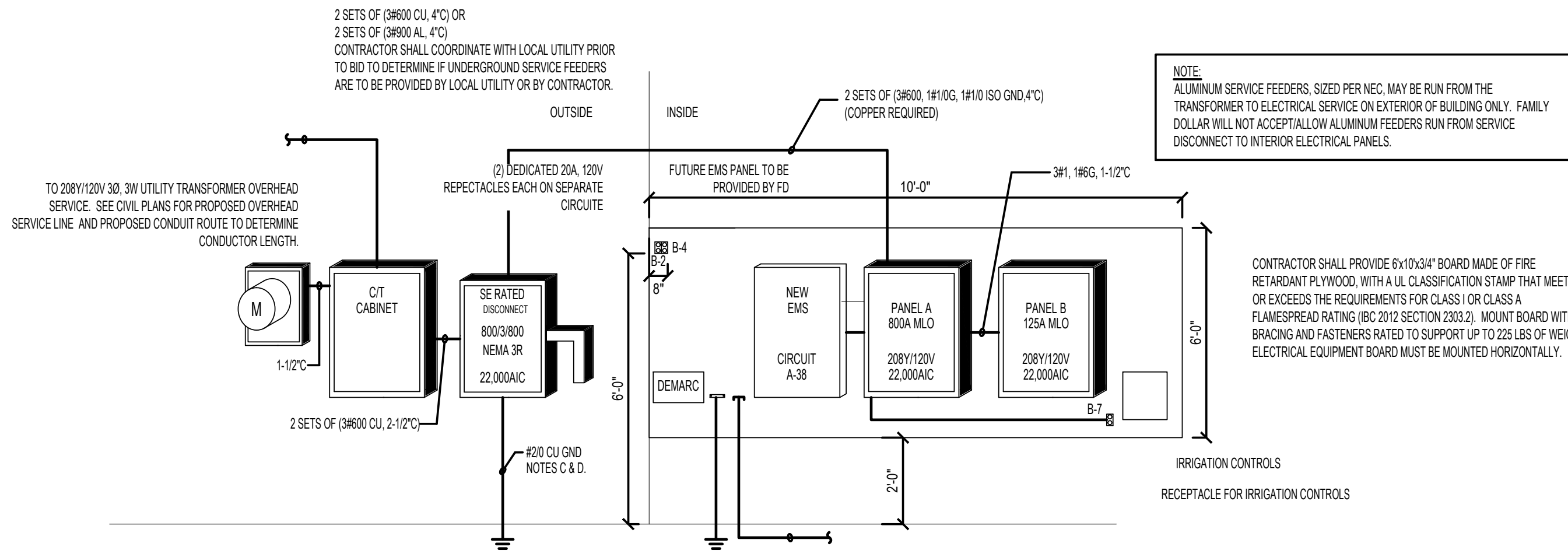


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GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES.
- ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC. AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, DO NOT SCALE PLANS.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING AND OTHER EQUIPMENT AS REQUIRED.
- A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS.
SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID, UNLESS OTHERWISE NOTED. BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN/THWN OR XHHW AS REQ'D.
- ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NEC. TYPE MC CABLE IS THE PREFERRED WIRING METHOD. USE EMT WHERE MC IS PROHIBITED. USE RIGID STEEL CONDUIT WHERE EXPOSED OUTDOORS. USE LIQUID TIGHT FMC FOR ALL CONNECTIONS TO MOTORS AND CONDENSING UNITS. MINIMUM CONDUIT SIZE TO BE 3/4". EC TO RUN ALL ELECTRICAL OVERHEAD IN A NEAT AND ORGANIZED FASHION.
- PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
- PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES. WHITE LETTERS ON BLACK BACKGROUND.
- FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
- ALL TERMINALS/LUGS SHALL BE 75° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (QUAL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
- VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
- ALL ELECTRICAL DEVICES (SWITCHES AND OUTLETS) SHALL BE "WHITE" WITH WHITE NYLON UNBREAKABLE WALL COVER PLATES EXCEPT THAT IG OUTLETS SHALL BE "ORANGE".

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.).
- PENETRATIONS OF REQUIRED SMOKE PARTITIONS SHALL BE SEALED USING METHODS APPROVED UNDER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.
- WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED U.L. OR EQUIVALENT ASSEMBLIES.
- IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO INSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
- WHERE A HOME RUN IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HOMERUN IS NOT SHOWN, THE CONTRACTOR SHALL COMBINE CIRCUITS AS FOLLOWS: A MAXIMUM OF THREE 20A BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN WITH SEPARATE NEUTRALS FOR A MAXIMUM TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO THE PANEL.
- EACH DISCONNECT SHALL BE EQUIPPED WITH A GROUND BAR.
- PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL FEEDER AND BRANCH CIRCUITS.
- DEVICE HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE. RECEPTACLE AND DATA/TELEPHONE OUTLETS SHOWN ADJACENT ON DRAWINGS SHALL BE MOUNTED 6" APART ON CENTER HORIZONTALLY.
- COORDINATE ALL DEVICES AND OUTLETS ABOVE OR BELOW WITH CASEWORK INSTALLATION AND FDS IN ORDER TO POSITION AT THE PROPER LOCATION AND HEIGHT.
- ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° F AND SHALL BE DAMP OR WET LABELED AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. IN ACCORDANCE WITH LOCAL SEISMIC CODE REQUIREMENTS. PROVIDE SEISMIC RESTRAINTS, ACCESSORIES AND INSTALLATION DETAIL AS REQUIRED.
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL DETAILS OF THE WORK AND WORKING CONDITIONS. VERIFY ALL FIELD CONDITIONS INCLUDING LOCATION OF UTILITY LINES, STRUCTURES AND ADVISE THE ENGINEER OF ANY DISCREPANCY THAT MAY PREVENT OR HINDER THE SPECIFIED WORK FROM BEING COMPLETED.
- THE CONTRACTOR SHALL STUDY THE STRUCTURE AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE THE WORK ACCORDINGLY. THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES, HANGERS AND ANCHORS AS NECESSARY TO MEET SUCH CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- PRIOR TO ACCOMPLISHING ANY WORK IN ANY AREA, ALL WORK SHALL BE PLANNED AND COORDINATED WITH OTHER TRADES AND THE OWNER. THE CONDUIT ROUTING SHALL BE COORDINATED WITH DUCTWORK AND OTHER OBSTACLES SO AS TO PROVIDE THE MOST EFFICIENT AND AESTHETICALLY PLEASING INSTALLATIONS.
- PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. STUDY ALL DRAWINGS, MANUFACTURERS' INSTRUCTIONS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT ACCESSORIES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT BEING FURNISHED UNDER THIS CONTRACT.



RISER NOTES:

- COORDINATE WITH LOCAL UTILITY PRIOR TO PROJECT START TO OBTAIN 240V/120V, 1PH, 3 WIRE ELECTRICAL SERVICE TO BUILDING. MINIMUM 600A SERVICE SHALL BE PROVIDED FOR STORES 0 SF TO 999 SF UTILIZING GAS HEAT. MINIMUM 600A SERVICE SHALL BE PROVIDED FOR STORES 800 SF AND LARGER AND FOR ALL STORES UTILIZING ELECTRIC STRIP HEATING. ALL WORK MUST CONFORM TO ALL LOCAL UTILITY RULES AND REGULATIONS.
- ALL CONDUCTOR SIZES BASED ON COPPER, 75° C LUGS UNLESS NOTED OTHERWISE.
- PROVIDE COMPLETE GROUNDING ELECTRODE SYSTEM. PROVIDE GROUNDING ELECTRODE CONDUCTOR AT SERVICE ENTRANCE OVERCURRENT PROTECTION DEVICE, AND BOND TO COLD WATER PIPING, METAL FRAME OF BUILDING, AND TO CONCRETE ENCASED ELECTRODE (UFER GROUND).
- COORDINATE INSTALLATION OF BONDING PROVISIONS FOR CONCRETE-ENCASED ELECTRODE IN FOOTING AT TIME FOOTINGS ARE INSTALLED FOR INSPECTION BY ELECTRICAL INSPECTOR. THERE SHALL BE NO SPLICES IN THE GROUNDING ELECTRODE CONDUCTOR.
- CONTRACTOR SHALL PROVIDE METER BASE AND CT CABINET PER UTILITY REQUIREMENTS.
- ONLY U.L. LISTED EQUIPMENT SHALL BE USED.

1 POWER RISER DIAGRAM (600A SERVICE)

MANUFACTURER: SQUARE D NQO
BUS RATING: 800 A
MAINS: MLO
AIC RATING: 22K
MOUNTED: SUR

NAME: PANEL A

PROJECT NAME: FAMILY DOLLAR
PROJECT NUMBER: 2021-052

3 PHASE
4 WIRE
120/208 VOLTS
1 NEMA

NOTES	Circuit No.	IDENTIFICATION	WIRING	CIRCUIT BREAKER	LOAD/PHASE (AMPS)	CIRCUIT BREAKER	LOAD/PHASE (AMPS)	WIRING	IDENTIFICATION	Circuit No.	NOTES
					A B C		A B C				
	1				40.4					2	1
	3	PANEL B	M	125	42.7				SPARE	4	4
	5					63.3			SPARE	6	1
	7				72.0					8	4
	9	A/C-1	4	80	72.0				SPARE	10	1
	11					72.0				12	4
	13				49.0				SPARE	14	1
	15	A/C-2	6	50	49.0					16	4
	17					49.0			SPARE	18	1
	19				67.0					20	4
	21	A/C-3	3	90	67.0				SPARE	22	4
	23					67.0				24	4
	25				72.0				SPARE	26	1
	27	A/C-4	4	80	72.0					28	4
	29					72.0			SPARE	30	1.4
	31	SPARE								32	
	33	SPARE								34	1
	35	SPARE								36	
	37	LIGHTS RR / OFFICE			2.0				FUTURE EMS	38	1
	39	LITES SALES EVEN				6.0			SPARE	40	
	41	LITES SALES EVEN				6.0		10.0	BLD SIGN	42	2
	43	LITES SALES EVEN			5.4			4.0	L 8 PYLON SIGN	44	2
	45	LIGHTS STOCK				2.4		3.8	L 12 EXT. LIGHTS	46	2
	47	LITES SALES ODD				5.4		4.2	L 8 SITE LIGHTS	48	2
	49	LITES SALES ODD			8.4			2.1	L 10 SITE LIGHTS	50	2
	51	LITES SALES ODD				6.0			SPARE	52	
	53	LTS NL / EXIT/ EMER				2.5			SPARE	54	
					302.4	308.7	337.2				
								0.0			

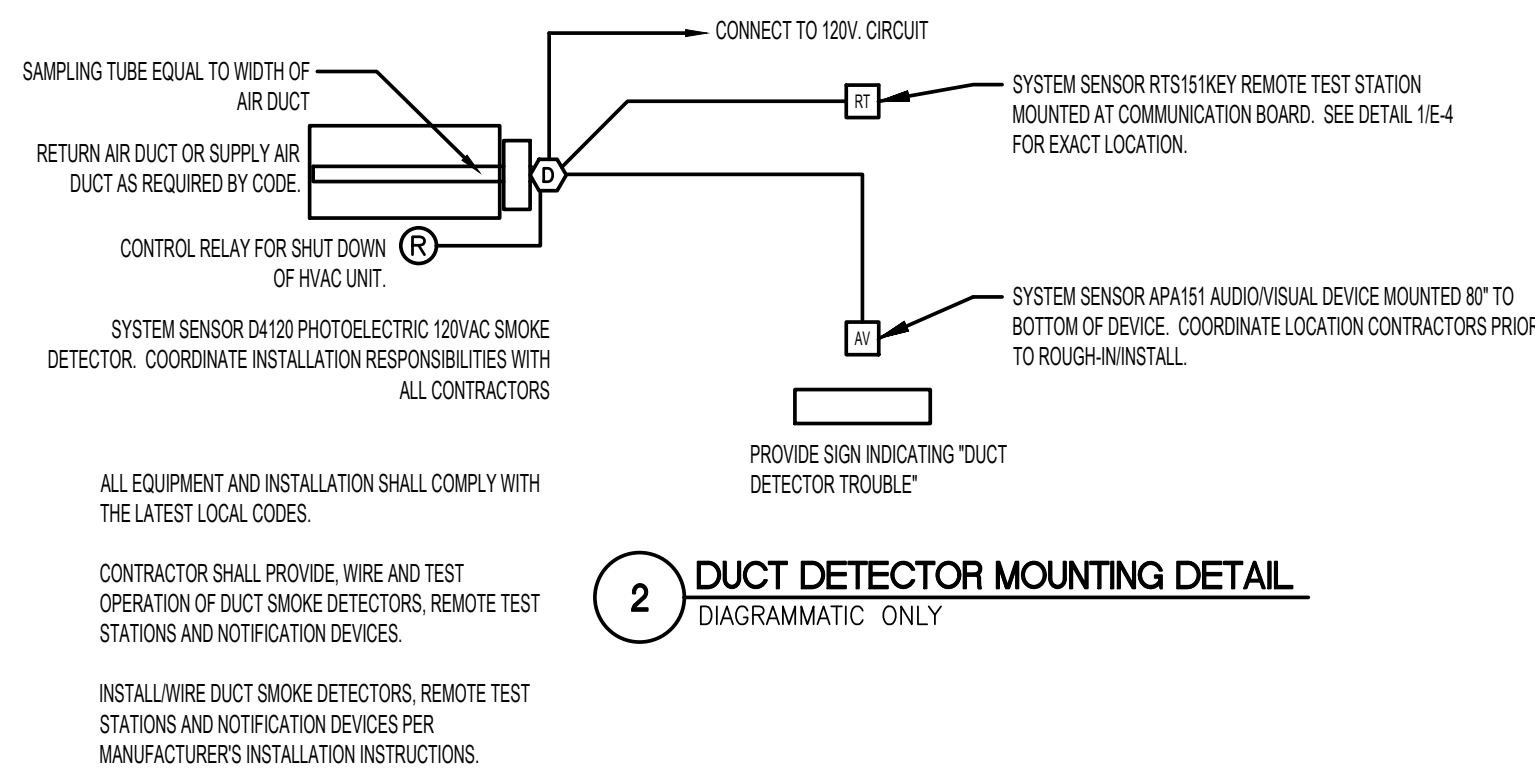
TOTAL AMPS PHASE A: 302.40
TOTAL AMPS PHASE B: 308.70
TOTAL AMPS PHASE C: 347.20

CONNECTED AMPS: 347.20
CONNECTED KVA: 124.94

	CONN. LOAD (AMP)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	68.20	1.25	85.3
RECEPTACLES (R)	0.00	NEC	0.0
MISC. EQUIPMENT LOAD (M)	67.00	1.00	67.0

LARGEST DEMAND PH. "AMPS" 340.7
LARGEST DEMAND PH. "KVA" 122.58

- NOTES 1) PROVIDE BREAKER LOCKING DEVICE
2) FED THROUGH LIGHTING CONTROL
3) PROVIDE WITH ISOLATED GROUND BUS
4) PROVIDE HACR TYPE BREAKER FOR HVAC/ REFRIG. EQMT
5) GFI BREAKER
6) ISOLATED GROUND BREAKER
7) PROVIDE HANDLE TIES FOR CIRCUITS SHARING NEUTRAL



3 DOOR CHIME SCHEMATIC DIAGRAM

MANUFACTURER: SQUARE D NQO
BUS RATING: 125 A
MAINS: MLO
AIC RATING: 22K
MOUNTED: SUR

NAME: PANEL B

PROJECT NAME: FAMILY DOLLAR
PROJECT NUMBER: 2021-052

3 PHASE
4 WIRE
120/208 VOLTS
1 NEMA

NOTES	CKT NO	IDENTIFICATION	WIRE	CODE	LOAD/PHASE (AMPS)			CIRCUIT BREAKER			LOAD/PHASE (AMPS)			CODE	WIRE	IDENTIFICATION	CKT NO	NOTES
					A	B	C	TRIP	P	TRIP	A	B	C					
	1	EXT. REPT	12	R		2.0		20	1	1	20	1.6		R	12	COMM BOARD RECPT	2	1
	3	EXT. REPT	12	R			2.0	20	1	1	20		1.6	R	12	COMM BOARD RECPT	4	1
	5	RTU REPT	12	R				20	1	1	20			R	12	CECKOUT POS #1	6	
	7	IRR REPT	12	R		2.0		20	1	1	20	3.3		R	12	CECKOUT POS #2	8	1
	9	CHECKOUT STAT D#1	12	R			3.3	20	1	1	20		3.3	R	12	CECKOUT POS #3	10	1
	11	CHECKOUT STAT D#2	12	R				20	1	1	20			R	12	FUTURE EAS RECPT	12	1
	13	CHECKOUT STAT D#3	12	R		3.3		20	1	1	20	1.6		R	12	FUTURE ATM RECPT	14	1
	15	FUTURE MONITOR RECPT	12	R			1.6	20	1	1	20		3.0	R	12	OFFICE RECPT	16	
	17	BREAK RM RECPT	12	R				20	1	1	20			R	12	OFFICE RECPT	18	1
	19	BREAK RM RECPT	12	R		1.6		20	1	1	20	3.0		R	12	OFFICE RECPT	20	
	21	STOCK RM RECPT	12	R			1.6	20	1	1	20		4.0	R	12	OFF. PLUG MOLD RECPT	22	
	23	WINDOW RECPT	12	R				20	1	1	20			R	12	OFF. PLUG MOLD RECPT	24	
	25	WINDOW RECPT	12	R		12.0		20	1	1	20		4.0	R	12		26	
	27	SALES RECPT	12	R			9.0	20	1	1	20					SPARE	28	
	29	SALES RECPT	12	R				20	1	1	20					SPARE	30	
	31	SPARE						20	1	1	20					SPARE	32	
	33	SPARE						20	1	1	20					SPARE	34	
	35	SPARE						20	1	1	20					SPARE	36	
	37	SPARE						20	1	1	20					SPARE	38	
	39	SPARE						20	1	1	20					SPARE	40	
	41	SPARE						20	1	1	20					SPARE	42	
	43	SPARE						20	1	1	20	5.0		R	12	FUTURE ICE CREAM RECPT	44	
	45	SPARE						20	1	1	20		5.0	R	12	FUTURE INT. ICE RECPT	46	
	47	SPARE						20	1	1	20			R	12	FUTURE VEND MAC RECPT	48	
5	49	FUTURE HAND DRYER	12	R		8.3		20	1	1	20	5.0		R	12	FUTURE VEND MAC RECPT	50	
5	51	FUTURE HAND DRYER	12	R			8.3	20	1	1	20		8.3	R	12	HOT BOX	52	
	53	WATER HEATER	12	M			12.5	20	1	1	20		2.0	R	12	DUCT DETECTORS	54	
						20.9	17.5	44.4				19.5	25.2	18.9				

TOTAL AMPS PHASE A: 40.40
TOTAL AMPS PHASE B: 42.70
TOTAL AMPS PHASE C: 63.30

CONNECTED AMPS: 63.30
CONNECTED KVA: 22.78

	CONN. LOAD (AMP)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	0.00	1.25	0.0
RECEPTACLES (R)	130.50	NEC	106.92
MISC. EQUIPMENT LOAD (M)	12.50	1.00	12.5

LARGEST DEMAND PH. "AMPS" 39.7
LARGEST DEMAND PH. "KVA" 14.29

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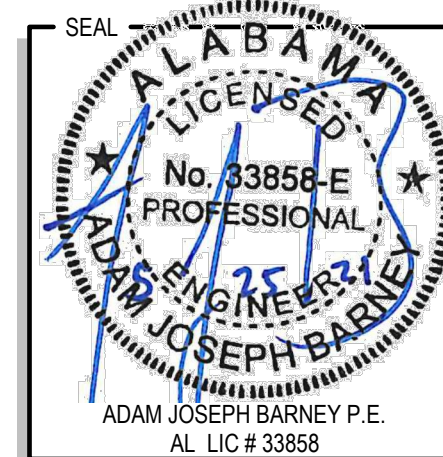
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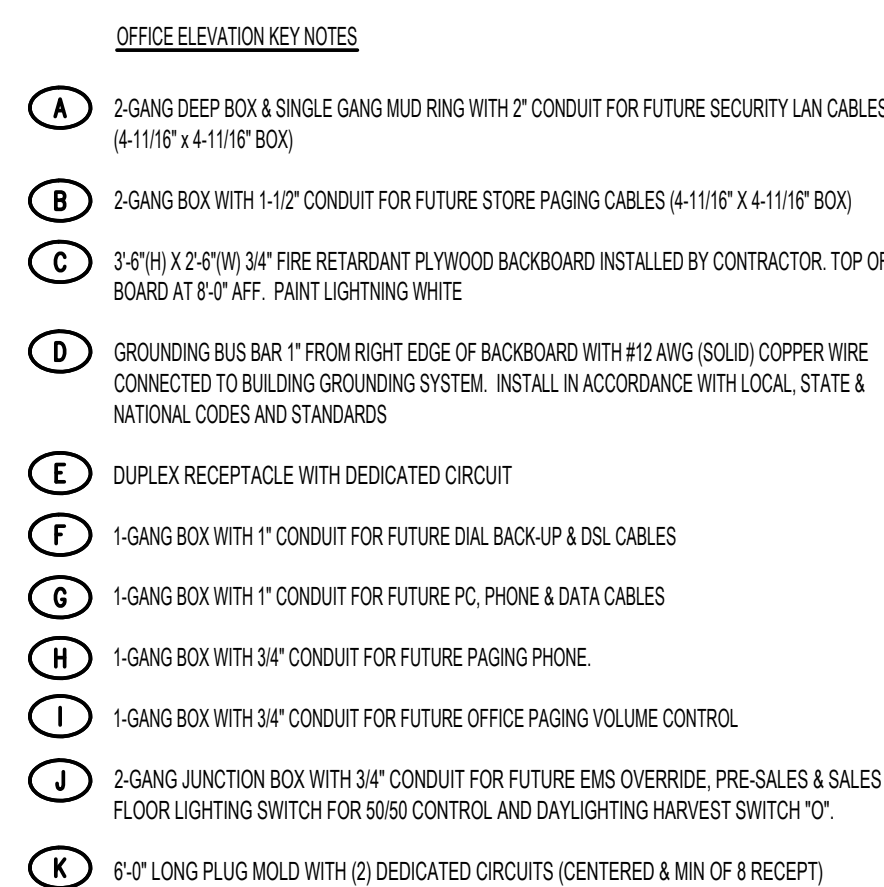
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DRAWN	CHECKED

SHEET NO.
E-1V

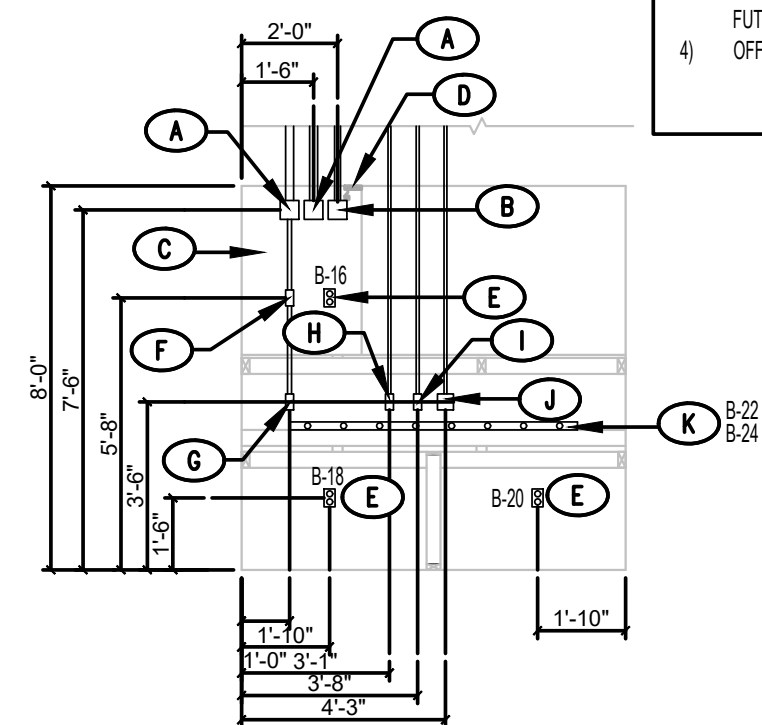
ELECTRICAL COVER SHEET



NOTES:

- 1) EQUIPMENT RACK, SUPPLIED & INSTALLED BY TENANT'S DATA CONTRACTOR AT TIME OF FUTURE TENANT UPTIT.
- 2) CONTRACTOR SHALL LABEL ALL PHONE JACKS/JUNCTIONS AS PER ELEVATION.
- 3) ALL LOW-VOLTAGE FACEPLATES AND LOW-VOLTAGE WIRING WILL BE PROVIDED AND INSTALLED BY TENANT'S DATA CONTRACTOR AT TIME OF FUTURE TENANT UPTIT.
- 4) OFFICE ELEVATION REQUIRES TOTAL OF FIVE (5) DEDICATED CIRCUITS.

NOTE: ALL CONDUIT SHALL BE INSTALLED INSIDE WALL. ALL CONDUIT STUBS SHALL BE FINISHED WITH CONNECTOR/BUSHING AND HAVE PULL STRINGS INSTALLED. ALL CONDUIT SHALL BE SIZED AS INDICATED ON DETAIL. ALL CONDUIT & BOXES ARE DIMENSIONED TO CENTERLINE. CONTRACTOR SHALL LABEL TOP OF CONDUIT TO MATCH LABELS ON JACKS/JUNCTIONS BELOW.



APPROXIMATE LOCATES HOMERUN TO PANEL. NOTED.

JUNCTION BOX WALL OR CEILING MOUNTED.

SINGLE POLE, 120V, 20A MOTOR RATED TOGGLE SWITCH.

DUPLEX RECEPTACLE, 20 AMP, 120 VOLT, 18" A.F.F. TO CENTER, UNLESS OTHERWISE SPECIFIED.

"GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE

"WIF" INDICATES WEATHERPROOF WITH "IN-USE" COVER

"IG" INDICATES ISOLATED GROUND RECEPTACLE WITH ISOLATED GROUND WIRE AND DEDICATED NEUTRAL. HUBBELL #6S-5082

QUADRUPLX RECEPTACLE, AS ABOVE, 18" A.F.F. TO CENTER, UNLESS OTHERWISE SPECIFIED.

WEATHERPROOF PUSH BUTTON FOR DOORBELL SYSTEM MOUNTED 46" A.F.G. TO CENTER. EDWARDS MODEL #690-W WITH EDWARDS MODEL #147-1 MOUNTING PLATE.

DOOR CHIME FOR DOORBELL SYSTEM MOUNTED ABOVE CEILING. CONNECT TO DOOR CHIME TRANSFORMER. EDWARDS MODEL #338-05 (24VAC, 12VA)

LOW VOLTAGE STEP DOWN TRANSFORMER FOR DOORBELL SYSTEM. EDWARDS MODEL #592 PROVIDE WITH EDWARDS MODEL #593 TRANSFORMER MOUNTING PLATE. MOUNT 9'-0" AFF. IN SUPPORT ROOM.

TELEPHONE OUTLET, 18" A.F.F. TO CENTER OR AT HEIGHT INDICATED ON PLANS. PROVIDE SINGLE GANG DATA BOX WITH 4" CONDUIT WITH PULL STRING TO 8'-0" ABOVE LAY-IN CEILING OR TO 12' A.F.F. IN AREAS WITH NO CEILING. CATSE CABLING AND COVERPLATE SHALL BE INSTALLED BY FDS LOW VOLTAGE CONTRACTOR AT TIME OF FUTURE TENANT UFFIT.

DATA OUTLET, 18" A.F.F. TO CENTER OR AT HEIGHT INDICATED ON PLANS. PROVIDE SINGLE GANG DATA BOX WITH 4" CONDUIT WITH PULL STRING TO 8' ABOVE LAY-IN CEILING OR TO 12' A.F.F. IN AREAS WITH NO CEILING. CATSE CABLING AND COVERPLATE SHALL BE INSTALLED BY FDS LOW VOLTAGE CONTRACTOR AT TIME OF FUTURE TENANT UFFIT.

GENERAL DUTY FUSIBLE-NON FUSIBLE DISCONNECT SWITCH, NUMBERS INDICATE FRAME SIZE, NUMBER OF POLES AND FUSING. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3 ENCLOSURE FOR ALL SWITCHES LOCATED OUTSIDE.

"FPM" INDICATES FUSE PER EQUIPMENT NAMEPLATE

"NF" INDICATES NON-FUSED.

ELECTRICAL PANEL. SEE SCHEDULE FOR DETAILS.

ELECTRIC UTILITY METER LOCATION.

WATER HEATER. PROVIDE DISCONNECTING MEANS AS REQUIRED.

EXTERIOR LED LIGHT FIXTURE

DUCT MOUNTED SMOKE DETECTOR. CONNECT TO 120V CIRCUIT INDICATED. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 3E-2 FOR DETAILS.

DUCT SMOKE DETECTOR AUDIO/VISUAL DEVICE MOUNTED 80" AFF TO BOTTOM OF DEVICE. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 3E-2 FOR DETAILS.

DUCT SMOKE DETECTOR REMOTE TEST STATION MOUNTED AT COMMUNICATION BOYD. SEE DETAIL 154.0 FOR EXACT LOCATION. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 3E-2 FOR DETAILS.

- 1) PROVIDE MINIMUM 60A, 200V/120V, 3P/4, 4WIRE ELECTRICAL SERVICE TO BUILDING. PROVIDE A DISCONNECT SWITCH ON EXTERIOR OF BUILDING. A LARGER SERVICE MAY BE REQUIRED IF HVAC UNITS WITH ELECTRIC HEAT OR HEAT PUMPS WITH SUPPLEMENTAL ELECTRIC HEAT ARE USED. SERVICE LOAD CALCULATIONS AND PANEL LOAD CALCULATIONS SHALL INCLUDE A FUTURE REFRIGERATION LOAD OF 300W. ALTERNATE SERVICE VOLTAGES AND/OR PHASE REQUIRE PRIOR WRITTEN APPROVAL FROM FAMILY DOLLAR PRIOR TO BEGINNING CONSTRUCTION AND WILL NOT BE ACCEPTED OTHERWISE. SEE POWER RISER DIAGRAM ON THIS SHEET.
 - 2) ELECTRICAL PANEL LOCATION PER FAMILY DOLLAR APPROVED FLOOR PLAN. SEE POWER RISER DIAGRAM ON THIS SHEET. ALTERNATE LOCATIONS REQUIRE PRIOR WRITTEN APPROVAL FROM FAMILY DOLLAR PRIOR TO BEGINNING CONSTRUCTION AND WILL NOT BE ACCEPTED OTHERWISE.
 - 3) CONTRACTOR SHALL PROVIDE 2 EMPTY CONDUIT, SCHEDULE 40 PVC, WITH NYLON PULP FOR INCOMING TELEPHONE SERVICE. CONTRACTOR SHALL ROUTE TELEPHONE CONDUIT TO PHONE PEDESTAL, PROPERTY LINE, OR POINT AS COORDINATED WITH LOCAL TELEPHONE COMPANY. STUD CONDUIT BELOW COMMUNICATION BOARD LOCATION. TELEPHONE COMPANY DMARC SHALL BE INSTALLED INSIDE ON COMMUNICATION BOARD. DO NOT INSTALL CONDUIT OR DMARC EXPOSED ON FACE OF EXTERIOR WALL. THESE MUST BE LOCATED INSIDE.
 - 4) PROVIDE 435" COMMUNICATION BOARD NEAR TO ELECTRICAL PANELS MOUNTED AT 12" AFF. PROVIDE GROUND BAR AND GROUND TO SERVICE AS REQUIRED BY CODE. PROVIDE (2) TWO DEDICATED 120V CIRCUITS TO (2) TWO DEDICATED RECEPTABLES SURFACE MOUNTED TO COMMUNICATION BOARD. RECEPTABLES AT 1-1/2' AFF ABOVE RIGHT SIDE OF COMMUNICATION BOARD.
 - 5) PROVIDE DEDICATED 120V, 20A CIRCUIT TO GFI, WEATHERPROOF EXTERIOR RECEPTABLE RECESSED IN WALL 18" A.F.F. WITH FACE FLUSH WITH EXTERIOR WALL. PROVIDE WITH "IN-USE" COVERS. DO NOT LOCATE RECEPTABLE ADJACENT TO HANDICAP ACCESS AREAS/RAMP.
 - 6) ONLY FAMILY DOLLAR STORES LOCATED IN THE FOLLOWING STATES SHALL BE PROVIDED WITH ELECTRICAL CONNECTIONS FOR FUTURE WATER VENDING MACHINE TO BE INSTALLED BY TENANT. ARIZONA, CALIFORNIA, COLORADO, FLORIDA, NEVADA, NEW MEXICO AND TEXAS. CONTACT FAMILY DOLLAR CONSTRUCTION PROJECT MANAGER TO DETERMINE IF USING THE "WARM WEATHER" OR COLD WEATHER WATER VENDING MACHINE INSTALLATION METHOD. LOCATE WATER VENDING MACHINE ELECTRICAL CONNECTIONS ON SAME SIDE OF STORE AS RESTROOMS. REFER TO ARCHITECTURAL AND CIVIL PROTOTYPE DRAWINGS FOR ADDITIONAL VENDING MACHINE OPTIONS AND COORDINATION WITH ACCESSIBLE RAMPS. FIELD VERIFY EXACT LOCATION WITH FAMILY DOLLAR STORE CONSTRUCTION REPRESENTATIVE PRIOR TO INSTALLATION.
 - FOR WARM WEATHER INSTALLATION PROVIDED, TWO (2) DEDICATED 120V, 20A CIRCUITS TERMINATED TO GFI RECEPTABLES MOUNTED 4'-0" A.F.F. FOR FUTURE WATER VENDING MACHINE AS SHOWN. EXTERIOR RECEPTABLES SHALL BE GFI, WEATHERPROOF AND RECESSED IN WALL WITH FACE FLUSH WITH WALL. PROVIDE WITH "IN-USE" COVERS.
 - FOR COLD WEATHER INSTALLATION PROVIDED, TWO (2) DEDICATED 120V, 20A CIRCUITS TO J-BOX ON INTERIOR FOR FUTURE 13X13X1" INTERIOR MOUNTED UTILITY BOX (PROVIDED BY WATER VENDING MACHINE MANUFACTURER) MOUNTED AT MINIMUM 7'-1" A.F.F. PROVIDE WEATHERPROOF 2 GANG BOX @ 4'-0" AFF RECESSED IN EXTERIOR WALL WITH 1/2" CONDUIT TO INTERIOR MOUNTED UTILITY BOX LOCATION. REFER TO INSTALLATION SPECIFICATIONS FROM WATER VENDING MACHINE MANUFACTURER FOR EXACT PLACEMENT OF ALL UTILITIES. THE FIRST CIRCUIT 15 FOR NORMAL WATER VENDING MACHINE POWER AND THE SECOND CIRCUIT 15 FOR "COLD WEATHER" MODEL CABINET HEATER.
 - 7) PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTABLE IN WALL BELOW FINISHED CEILING HEIGHT FOR FUTURE GAS POWER SUPPLY. RECEPTABLE SHALL BE MOUNTED DIRECTLY ABOVE DOOR MURLION CLOSURE TO FUTURE CHECKOUT STATIONS. CONFIRM SIZE TO MOUNT RECEPTABLE WITH FID SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION. FUTURE GAS SHALL BE FURNISHED AND INSTALLED BY GAS VENDOR AT TIME OF FUTURE FID UPFIT.
 - 8) PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTABLE IN WALL 18" AFF. FOR FUTURE ATM. CONFIRM RECEPTABLE LOCATION WITH FID SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
 - 9) PROVIDE FLUSH MOUNTED RECEPTABLE IN CEILING FOR FUTURE SECURITY MONITORS. PROVIDE ONE 120V, 20A CIRCUIT FOR ALL RECEPTABLES. REFER TO ELECTRICAL POWER PLAN 2A FOR LOCATIONS OF RECEPTABLES.
 - 10) FURNISH AND INSTALL 120V, 20A DEDICATED CIRCUIT TO JUNCTION BOX ABOVE CEILING FOR FUTURE EXTERIOR BUILDING SIGNS. BUILDING SIGN CIRCUIT SHALL BE CIRCUITED VIA TIMELOCK. PROVIDE ADDITIONAL 1-1/2" FEET OF SLACK ABOVE ELECTRICAL PANEL. COORDINATE ACTUAL NUMBER OF BUILDING MOUNTED SIGNS WITH ARCHITECTURAL ELEVATIONS AND FDS PROJECT MANAGER PRIOR TO CONSTRUCTION. COORDINATE REQUIRED JUNCTION BOX QUANTITIES AND LOCATION WITH ARCHITECTURAL ELEVATIONS AND SIGN SUPPLIER PRIOR TO ELECTRICAL ROUGH-IN.
 - 11) PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEAR TO STOCK ROOM DOOR FOR FUTURE PAGING PHONE. JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING IN WALL TO " ABOVE SALES FLOOR CEILING. PAGING SYSTEM SHALL BE PROVIDED 8'X16' VENDOR AT TIME OF FUTURE TENANT UPFIT.
 - 12) PROVIDE SIX (6) DEDICATED 120V, 20A CIRCUITS FOR FUTURE CASH STATIONS. CIRCUITS SHALL BE TERMINATED TO JUNCTION BOXES SECURED TO STRUCTURE. CONFIRM LOCATION OF JUNCTION BOXES WITH FID SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION. FUTURE POWER POLES FOR CASH STATIONS SHALL BE FURNISHED AND INSTALLED AT TIME OF FUTURE FID UPFIT. JUNCTION BOXES SHALL BE LOCATED WITHIN 31" OF FUTURE CLOSER POLE LOCATIONS. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBER AND DESCRIPTION AS SHOWN IN PANEL SCHEDULE. ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS. PROVIDE ADDITIONAL JUNCTION BOX ABOVE CEILING FOR FUTURE CHECKOUT CABINET AND CIRCUIT TO NEAREST CASH STATION 1 JUNCTION BOX.
 - 13) PROVIDE DEDICATED 120V, 20A CIRCUIT FOR FUTURE HAND DRYER. CIRCUIT SHALL BE TERMINATED TO JUNCTION BOX IN WALL. CONFIRM MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL ENLARGED RESTROOM PLAN.
 - 14) PROVIDE GROUND RECEPTABLE MOUNTED AT 18" AFF. IN EMPLOYEE BREAK AREA. PROVIDE TWO (2) DEDICATED 120V, 20A CIRCUITS. ONE CIRCUIT SHALL FEED THE LEFT DUPLEX RECEPTABLE AND THE SECOND CIRCUIT SHALL FEED THE RIGHT DUPLEX RECEPTABLE. CONFIRM RECEPTABLE LOCATION US, THE FID SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION. PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTABLE IN WALL 18" AFF. IN STOCK ROOM NEAR FREIGHT DOOR.
 - 15) PROVIDE DOOR BELL. PUSH BUTTON AND LOW VOLTAGE TRANSFORMER. MOUNT DOOR BELL ABOVE STOCK ROOM DOOR ON SALES SIDE. WIRE TO CIRCUIT FOR STOCK ROOM RECEPTABLE. PROVIDE RECEPTABLES ON SALES FLOOR APPROXIMATELY 5'0" APART ON EACH WALL MOUNTED 4" AFF. MINIMUM TWO (2) RECEPTABLES PER WALL EXCEPT THAT WALL WITH REFRIGERATION CASES: ONLY GETS ONE (1). PROVIDE TWO (2) 120V, 20A CIRCUITS FOR THE RECEPTABLES.
 - 16) PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTABLE IN WALL 18" AFF. FOR FUTURE INTERIOR ICE. CONFIRM RECEPTABLE LOCATION WITH FID SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
 - 17) PROVIDE DEDICATED 120V, 20A CIRCUIT TO FLUSH MOUNTED RECEPTABLE IN WALL 18" AFF. FOR FUTURE ICE CREAM. CONFIRM RECEPTABLE LOCATION WITH FID SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
 - 18) PROVIDE DUPLEX RECEPTABLE FOR SHOW WINDOW LIGHTING. MOUNT ABOVE WINDOW IN WALL OR CEILING, BUT WITHIN 8" OF TOP OF WINDOW. PROVIDE ONE 120V, 20A CIRCUIT FOR ALL RECEPTABLES.

ARCHITECT / ENGINEER

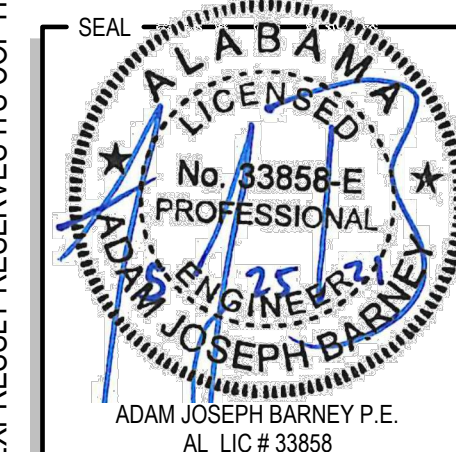
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Phone: (321) 972-4466

CLIENT NAME **PERMAN ENGINEERING CO. LLC**
ENGINEERS-CONTRACTORS-DEVELOPERS

PROJECT NAME
FAMILY DOLLAR STORE
DEF 21-01 PROTO 6A SMALL MARKET MRD.

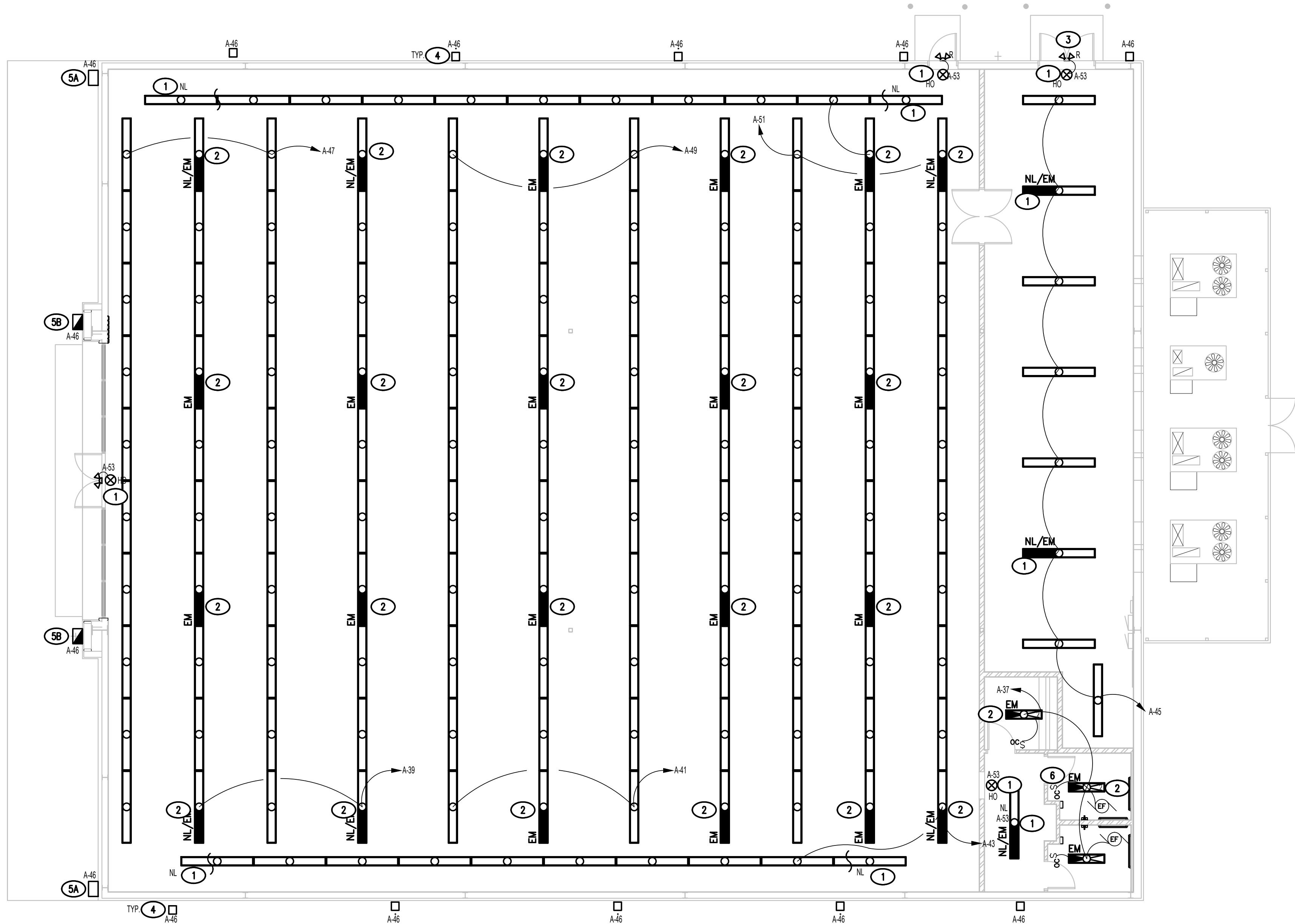
ELECTRICAL POWER PLAN



RELEASE _____		DATE _____
PROJECT NO. _____		
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ISSUE DATE _____		
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Harold Daniel Hutter III
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oviedo, fl 32765 phone 321-244-0401



1 b90x102
LIGHTING PLAN
3/32" = 1'-0"

TAGGED NOTES (LIGHTING PLAN):

- 1 ALL EXIT SIGNS, NIGHT LIGHTS AND NIGHT LIGHTS WITH EMERGENCY BATTERY BACKUP SHALL BE CIRCUITED TO DEDICATED CIRCUIT WITH BREAKER/LOCK.
- 2 WIRE EMERGENCY BATTERY BALLAST TO HOT LEG, AHEAD OF ANY LOCAL SWITCHING, INCLUDING FUTURE ENERGY MANAGEMENT SYSTEM CONTACTORS.
- 3 EXTERIOR EMERGENCY LIGHT (2 HEADS) MOUNTED CENTERED ABOVE DOOR AT 7'-6". EXTERIOR EMERGENCY LIGHT SHALL BE CONNECTED TO EMERGENCY EXIT LIGHT HI-OUTPUT BATTERY BACKUP.
- 4 EXTERIOR LED WALL PAK. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATION.
- 5A EXTERIOR LED WALL SCONCE. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATION.
- 5B EXTERIOR LED WALL SCONCE WITH EMERGENCY BATTERY BACKUP. REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHT AND LOCATION.
- 6 PROVIDE OCCUPANCY SENSOR/SWITCH.
- 7 ONLY ODD NUMBERED ROW OF LIGHT FIXTURES SHALL BE ON THE SAME LIGHTING CIRCUIT(S) AND SHALL BE WIRED SUCH THAT THE CIRCUIT(S) CAN BE RE-WIRED THRU FUTURE ENERGY MANAGEMENT SYSTEM AT TIME OF FUTURE TENANT UPFIT.
- 8 ONLY EVEN NUMBERED ROW OF LIGHT FIXTURES SHALL BE ON THE SAME LIGHTING CIRCUIT(S) AND SHALL BE WIRED SUCH THAT THE CIRCUIT(S) CAN BE RE-WIRED THRU FUTURE ENERGY MANAGEMENT SYSTEM AT TIME OF FUTURE TENANT UPFIT.

ELECTRICAL LIGHTING SYMBOL LEGEND

- ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
- SINGLE POLE SWITCH, 20A, 120/277 VOLT, 48" A.F.F. TO CENTER.
"1M" INDICATES 120V, 20A MOTOR RATED TOGGLE SWITCH.
- OCCUPANCY SENSOR SWITCH WITH OVERRIDE SWITCH, MOUNTED 48" A.F.F. TO CENTER.
PROVIDE SENSOR SWITCH MODEL #WSD-WH.
- FAN, FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.

LIGHTING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	NUMBER AND TYPE OF LAMPS	WATTS	VOLTS	MOUNTING	NOTES
	8' STRIP LIGHT	(2) 18W LED LINEAR T8 TUBES 4000K	36	120	NOTE 6	1,2,3,4,5,6
	8' STRIP EMERGENCY LIGHT WITH INTEGRAL 90 MINUTE BATTERY BACKUP	(2) 18W LED LINEAR T8 TUBES 4000K	36	120	NOTE 6	1,2,3,4,5,6
	4' STRIP LIGHT	(1) 18W LED LINEAR T8 TUBE 4000K	18	120	NOTE 6	1,2,3,4,5,6
	4' STRIP EMERGENCY LIGHT WITH INTEGRAL 90 MINUTE BATTERY BACKUP	(2) 18W LED LINEAR T8 TUBE 4000K	36	120	NOTE 6	1,2,3,4,5,6
	INTERIOR EMERGENCY LIGHT (2 HEADS) WITH INTEGRAL 90 MINUTE BATTERY BACKUP	(2) 1W LED	2	120	SURFACE	1,2,4
	EXIT SIGN WITH SINGLE FACE WITH INTEGRAL 90 MINUTE BATTERY BACKUP	LED	5	120	CEILING	1,2,4
	EXIT SIGN WITH SINGLE FACE WITH INTEGRAL 90 MINUTE HI-OUTPUT BATTERY BACKUP. CONNECT TO EXTERIOR REMOTE HEADS	LED	5	120	CEILING	1,2,4
	EXTERIOR EMERGENCY LIGHT REMOTE HEADS	(2) 1W LED	2	120	SURFACE	1,2,4
	EXTERIOR WALL PAK LIGHT	LED 7600 LM 4000K	74	120	WALL MTD. HEIGHT PER ARCHITECTURAL ELEVATIONS	1,2,4
	EXTERIOR WALL SCENE LIGHT	LED 6000 LM 4000K	54	120	WALL MTD. HEIGHT PER ARCHITECTURAL ELEVATIONS	1,2,4
	EXTERIOR WALL SCENE LIGHT WITH INTEGRAL 90 MINUTE BATTERY BACKUP	LED 6000 LM 4000K	54	120	WALL MTD. HEIGHT PER ARCHITECTURAL ELEVATIONS	1,2,4

- NOTES:
1. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS.
 2. CONTRACTOR SHALL COORDINATE VOLTAGE OF LIGHT FIXTURE WITH CIRCUIT VOLTAGE.
 3. LIGHT FIXTURES DENOTED BY "NIGHT LIGHT" OR "NL" SHALL REMAIN ON 24/7.
 4. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT HARDWARE AND ADAPTERS FOR EACH LIGHT FIXTURE UNLESS NOTED OTHERWISE.
 5. COORDINATE LIGHT FIXTURE MOUNTING WITH CEILING TYPE. REFER TO ARCHITECTURAL PLANS.
 6. LIGHT FIXTURES IN SALES AREA SHALL BE SURFACE MOUNTED TO BOTTOM OF LAY-IN CEILING AT 11'-10". LIGHT FIXTURES IN THE STOCK ROOM SHALL BE SUSPENDED FROM STRUCTURE USING CADDY SPEED LINK. PENTAIR CADDY SPEED LINK UNIVERSAL SUPPORT SYSTEM INCLUDES LOCKING DEVICE, WIRE ROPE AND SPECIALTY END FITTING. CADDY SPEED LINK SUPPORT SYSTEM SHALL BE FURNISHED WITH LIGHT FIXTURES. FOR STOCK ROOM, SUSPEND BOTTOM OF LIGHT FIXTURE TO 10'-0" AFF. FOR RESTROOMS, OFFICE AND HALL, LIGHT FIXTURES SHALL BE SURFACE MOUNTED TO BOTTOM OF CEILING. FOR LIGHT FIXTURES SURFACE MOUNTED TO LAY-IN CEILING, ATTACH LIGHT FIXTURE TO T-BAR PER NEC 410.36.

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CLIENT NAME
PERMAN ENGINEERING CO. LLC
ENGINEERS-CONTRACTORS-DEVELOPERS
2425 LUMBURY ROAD
RAINBOW CITY, AL, 35906

PROJECT NAME
FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA

PROFESSIONAL
No. 33858-E
ADAM JOSEPH BARNEY P.E.
AL LIC # 33858

RELEASE

DATE

PROJECT NO.

2021-056

ISSUE DATE

05-21-21

DRAWN

CHECKED

SHEET NO.

E-3V

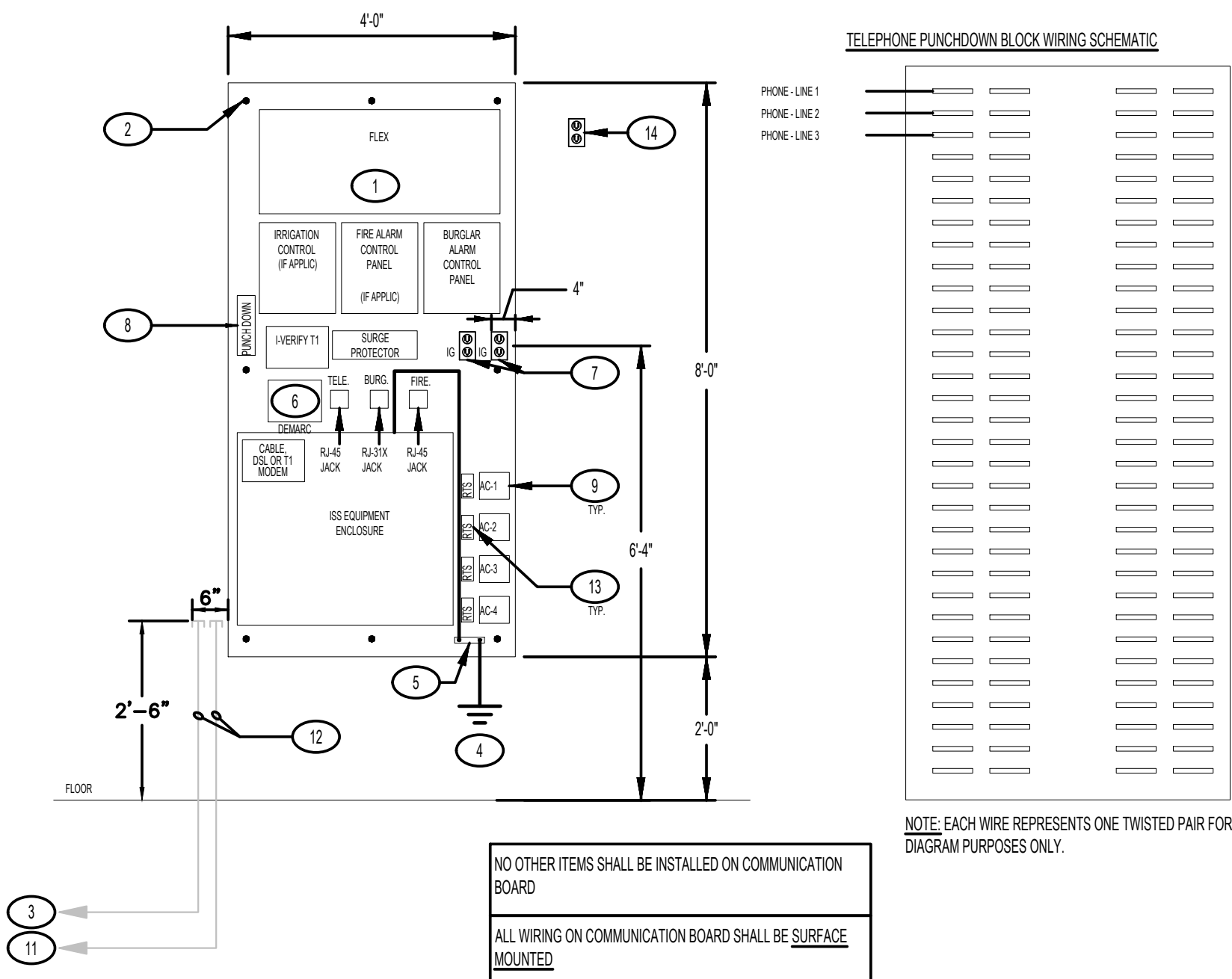
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SHEET TITLE
ELECTRICAL LIGHTING PLAN

COMMUNICATION BOARD GENERAL NOTES:

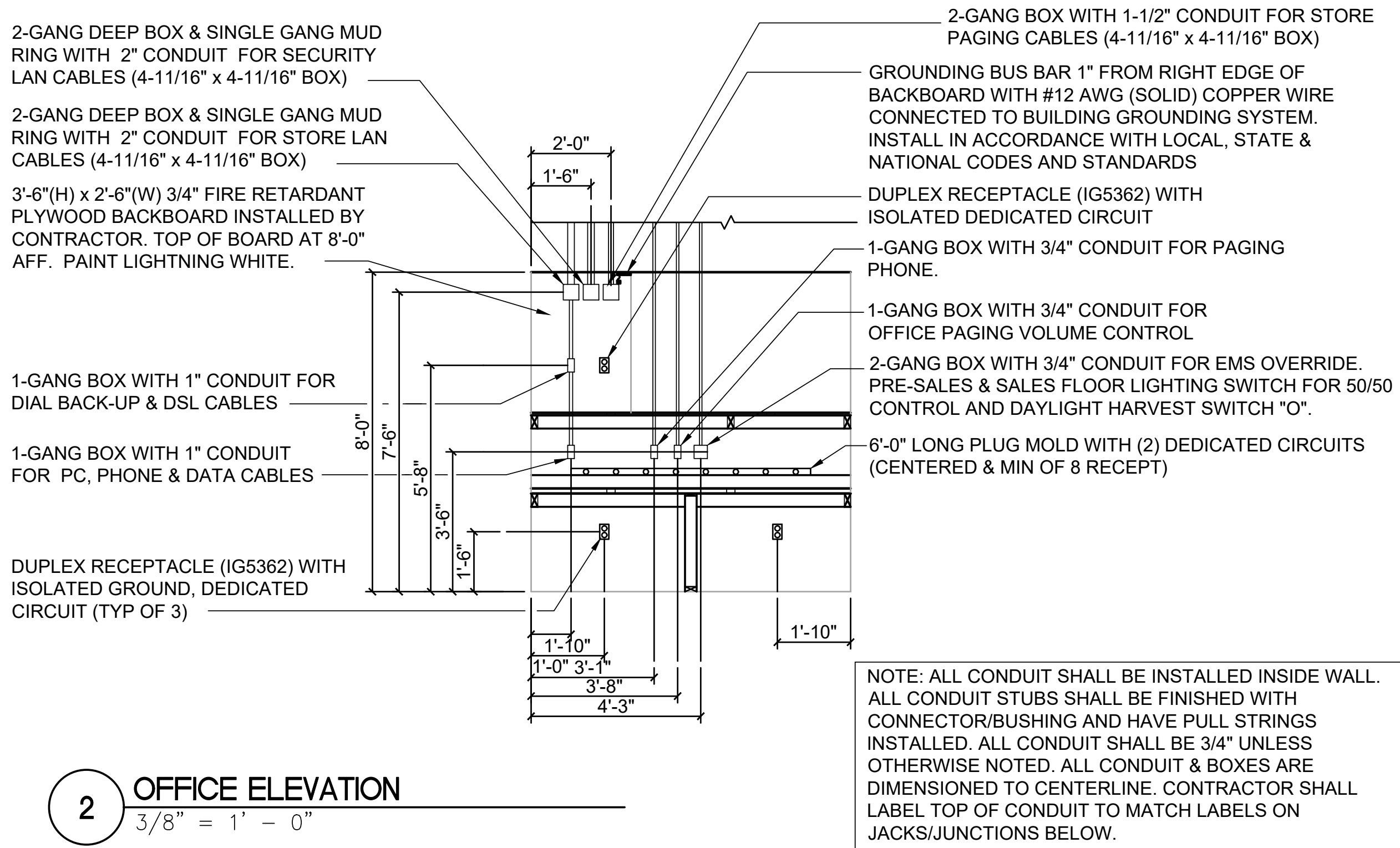
- ALL PHONE AND DATA LINES SHALL BE RUN BY FD'S LOW VOLTAGE VENDOR. INSTALLATION SHALL COMPLY WITH ALL CITY & STATE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONDUIT WITH PULL STRING FOR ALL PHONE AND DATA LINES WHERE REQUIRED BY CODE.
- TELEPHONE CONDUIT, TELEPHONE SERVICE (THREE (3) LINES OPERATIONAL), DMARC AND PUNCHDOWN BLOCK SHOULD BE EXISTING AS PROVIDED AS PART OF SHELL BUILDING. CONTRACTOR SHALL VERIFY THAT THREE (3) PHONE LINES ARE OPERATIONAL AND NOTIFY FD PROJECT MANAGER IF NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF COMMUNICATION BOARD/EQUIPMENT.
- DATA CONDUIT SHOULD BE EXISTING AS PROVIDED AS PART OF SHELL BUILDING. CONTRACTOR SHALL VERIFY EXISTING DATA CONDUIT AND NOTIFY FD PROJECT MANAGER IF NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF COMMUNICATION BOARD/EQUIPMENT.
- CONTRACTOR SHALL INSTALL FIRE RETARDANT PLYWOOD COMMUNICATION BACKBOARD, GROUND BAR, TELEPHONE PUNCHDOWN BLOCK & DUPLEX RECEPTACLES A MINIMUM OF 6 WEEKS PRIOR TO DELIVERY DATE OF STORE TURNOVER TO FDS.
- CONTRACTOR SHALL INSTALL COMMUNICATION BACKBOARD AND RECEPTACLE POWER PRIOR TO TELEPHONE AND DATA INSTALLATION DATE. PER FCC REQUIREMENTS PERMANENT POWER IS REQUIRED PRIOR TO TELEPHONES BEING INSTALLED.
- CONTRACTOR SHALL PROVIDE ONSITE CONTACT AVAILABLE TO PROVIDE ACCESS TO TELEPHONE AND DATA COMPANIES. (TELEPHONE AND DATA COMPANIES REQUIRE SOMEONE ONSITE ON THE DAY OF INSTALL.)
- CONTRACTOR SHALL PROVIDE ONSITE CONTACT TO PROVIDE PROBLEM RESOLUTION FOR ALL ISSUES PERTAINING TO PHONE/DATA FACILITIES, I.E. CONDUIT PLACEMENT, PULL STRING, BUILDING PENETRATION, SITE ACCESS, ETC.
- FAMILY DOLLAR CONTACT INFO: DEPLOYMENT CENTRAL 1-866-625-0177 (AVAILABLE 8AM-4PM EST MON-FRI). EMAIL: NEWSTORECONSTRUCTIONSTD@FAMILYDOLLAR.COM.



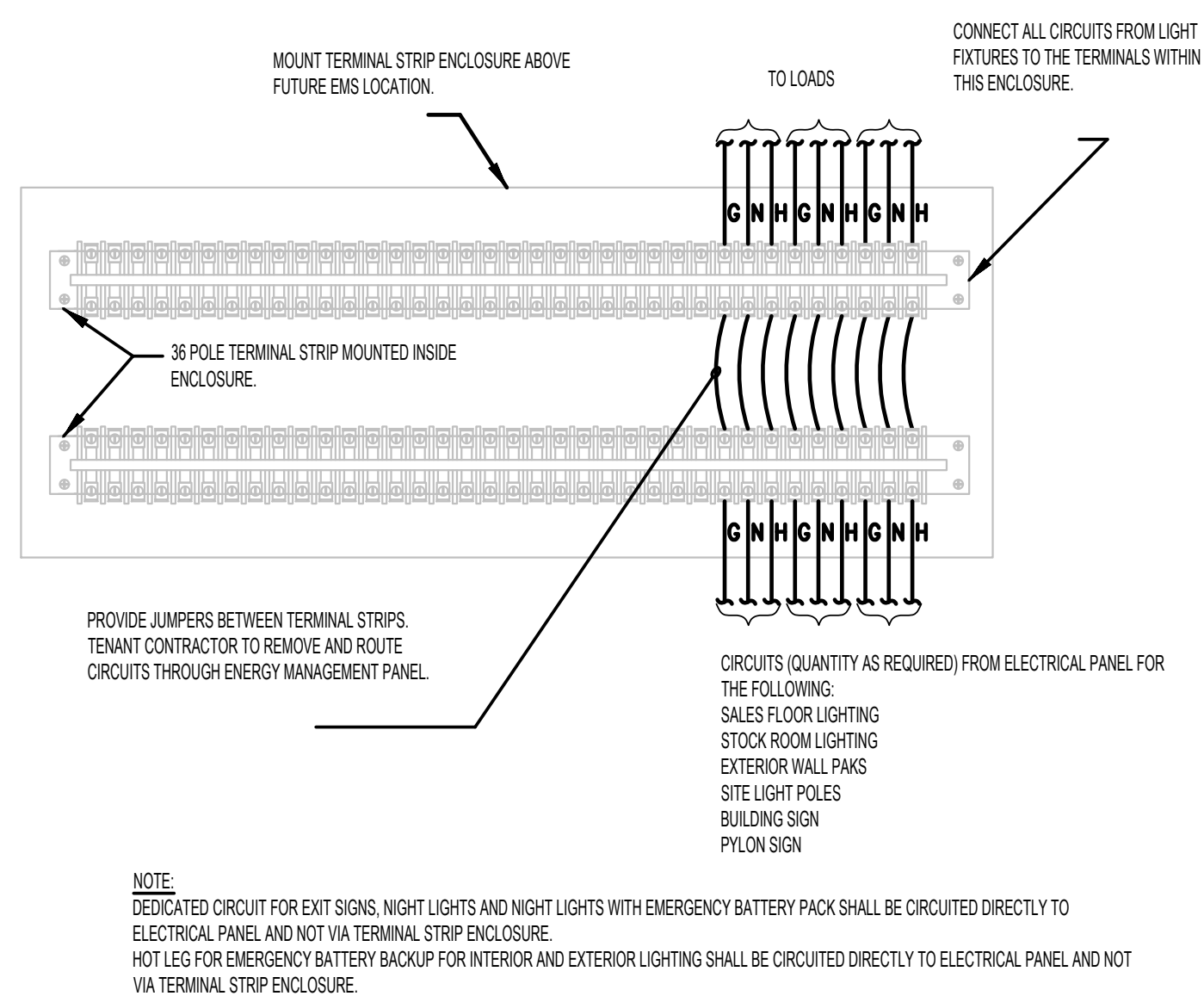
1 COMMUNICATION BOARD DIAGRAM
NTS

COMMUNICATION BOARD STENCILING NOTE:

A STENCIL SHALL BE USED TO MARK THE LOCATIONS OF EQUIPMENT ON THE COMMUNICATION BOARD. ORDER STENCIL DIRECTLY FROM LAKE AREA SIGNS (SPEAK WITH DANNY OR JEREMY AT 337-625-4179) USING ORDER FORM. THE STENCIL COST IS \$25.00 PLUS SHIPPING AND IS TO BE PAID BY CONTRACTOR USING A CREDIT CARD. THERE IS A 10 BUSINESS DAY LEAD TIME. THE STENCIL TRANSFER TAKES LESS THAN 15 MINUTES. RED OR BLACK SPRAY PAINT SHOULD BE USED. IT TAKES LESS THAN 1/2 CAN OF PAINT PER STENCIL. THE STENCIL SHOULD BE APPLIED PRIOR TO MOUNTING THE BOARD ON THE WALL TO MAKE SURE THE ANCHORS ARE NOT PLACED IN SPACES MARKED FOR EQUIPMENT. A PHOTO OF THE INSTALLED COMMUNICATION BOARD ALONG WITH THE UL CLASSIFICATION STAMP AND TRANSFERRED STENCIL PRIOR TO ANY EQUIPMENT INSTALLED SHALL BE SENT TO YOUR FAMILY DOLLAR PROJECT MANAGER. NO DEVIATIONS TO THE LAYOUT WILL BE ACCEPTED BY FAMILY DOLLAR. IT IS RESPONSIBILITY OF CONTRACTOR TO ENSURE THAT ALL SUBCONTRACTORS ADHERE TO THIS.



2 OFFICE ELEVATION
3/8" = 1' - 0"



3 TERMINAL STRIP ENCLOSURE DETAIL
DIAGRAMMATIC ONLY

COMMUNICATION BOARD KEYED NOTES:

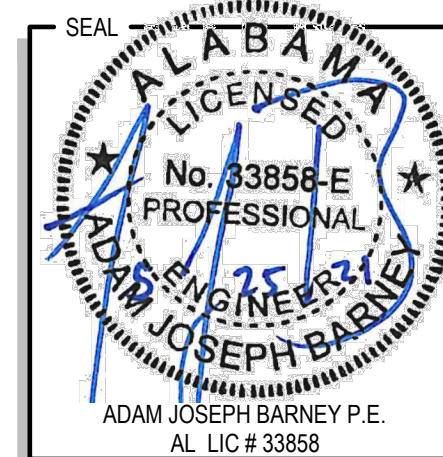
- CONTRACTOR SHALL PROVIDE 4'x8'x3/4" COMMUNICATION BOARD MADE OF FIRE RETARDANT PLYWOOD, WITH A UL CLASSIFICATION STAMP THAT MEETS OR EXCEEDS THE REQUIREMENTS FOR CLASS I OR CLASS A FLAMESPREAD RATING (IBC 2012 SECTION 2303.2). BOARD SHALL NOT TO BE PAINTED EXCEPT FOR STENCIL TRANSFER. MOUNT BOARD WITH BRACING AND FASTENERS RATED TO SUPPORT UP TO 225 LBS OF WEIGHT. COMMUNICATION BOARD SHALL BE MOUNTED VERTICALLY. HORIZONTALLY MOUNTED COMMUNICATION BOARD WILL NOT BE ACCEPTED.
- 1/4" METAL ANCHOR BOLTS. TYPICAL 8 PLACES.
- FIELD VERIFY EXISTING 2" CONDUIT, SCHEDULE 40 PVC, WITH INCOMING TELEPHONE SERVICE HAS BEEN PROVIDED AS PART OF SHELL BUILDING. CONTRACTOR SHALL NOTIFY FD PROJECT MANAGER IF NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF COMMUNICATION BOARD/EQUIPMENT.
- CONTRACTOR SHALL PROVIDE #6 CU GROUND TO SERVICE GROUND BAR AS REQUIRED FOR GROUNDING OF COMMUNICATION EQUIPMENT. PROVIDE 10' LOOP OF #6 GROUND WIRE TERMINATED WITH LUG.
- CONTRACTOR SHALL PROVIDE GROUND BAR WITH 7 TERMINALS FOR GROUNDING OF FRAME RELAY AND OTHER COMMUNICATION EQUIPMENT.
- CONTRACTOR SHALL RELOCATE EXISTING NETWORK INTERFACE DEVICE (DEMARCO) TO LOCATION AS SHOWN ON COMMUNICATION BOARD DIAGRAM. FIELD VERIFY EXISTING DEMARC AND NOTIFY FD PROJECT MANAGER IF NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF COMMUNICATION BOARD/EQUIPMENT.
- CONTRACTOR SHALL PROVIDE TWO (2) DUPLEX ISOLATED GROUND RECEPTACLES. SEE PLANS FOR CIRCUIT NUMBER. RECEPTACLES SHALL BE SURFACE MOUNTED. RECEPTACLES SHALL BE "ORANGE" WITH WHITE COVER PLATES.
- CONTRACTOR SHALL RELOCATE 25 PAIR (66 CLIPS) TELEPHONE PUNCHDOWN BLOCK TO LOCATION AS SHOWN ON COMMUNICATION BOARD DIAGRAM. FIELD VERIFY EXISTING TELEPHONE PUNCHDOWN BLOCK AND THAT THREE (3) PHONES HAVE BEEN LANDED AND ARE OPERATIONAL AS PART OF SHELL BUILDING. CONTRACTOR SHALL NOTIFY FD PROJECT MANAGER IF NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF COMMUNICATION BOARD/EQUIPMENT.
- HVAC UNIT CONTROLLER FURNISHED WITH EMS SYSTEM AND INSTALLED BY CONTRACTOR. (FIELD VERIFY QUANTITY WITH MECHANICAL PLANS). REFER TO EM DRAWINGS FOR INSTALLATION INFORMATION. LOCATIONS FOR ADDITIONAL CONTROLLERS SHOWN IF APPLICABLE.
- NOT USED.
- FIELD VERIFY EXISTING 2" EMPTY CONDUIT, SCHEDULE 40 PVC, WITH NYLON PULL WIRE FOR INCOMING WAN/DATA SERVICE (CABLE, DSL OR T1) HAS BEEN PROVIDED AS PART OF SHELL BUILDING. CONTRACTOR SHALL NOTIFY FD PROJECT MANAGER IF NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF COMMUNICATION BOARD/EQUIPMENT.
- FIELD VERIFY THAT TELEPHONE AND DATA CONDUITS HAVE BEEN STUBBED UP WITHIN 6" OF THE COMMUNICATION BOARD AT 30" AFF AS PART OF SHELL BUILDING. CONDUITS SHOULD NOT BE EXPOSED ON FACE OF EXTERIOR WALL. CONTRACTOR SHALL NOTIFY FD PROJECT MANAGER IF NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF COMMUNICATION BOARD/EQUIPMENT.
- DUCT SMOKE DETECTOR REMOTE TEST STATION LOCATION. CONTRACTOR SHALL INSTALL REMOTE TEST STATION. SEE WIRING DIAGRAM 4/E-4 FOR DETAILS.
- CONTRACTOR SHALL PROVIDE DUPLEX ISOLATED GROUND RECEPTACLE IN WALL, NEXT TO OR ABOVE COMMUNICATION BOARD TO BE USED FOR PAGING SYSTEM. USE SAME CIRCUIT FOR RECEPTACLES AT COMMUNICATION BOARD. RECEPTACLE SHALL BE "ORANGE" WITH WHITE COVER PLATE.

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PROJECT NAME
FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
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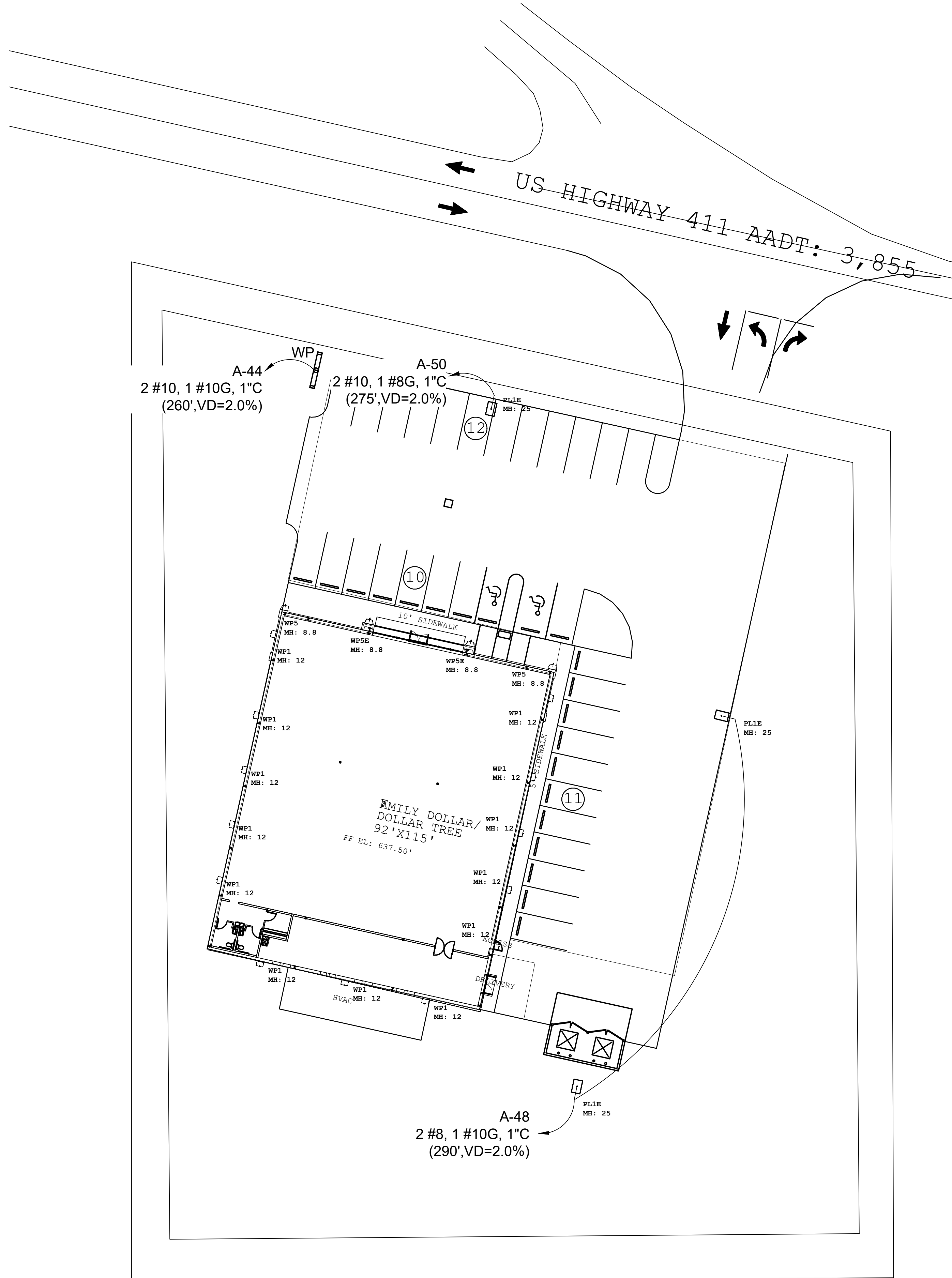
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1 ELECTRICAL SITE POWER PLAN
SCALE: N.T.S.



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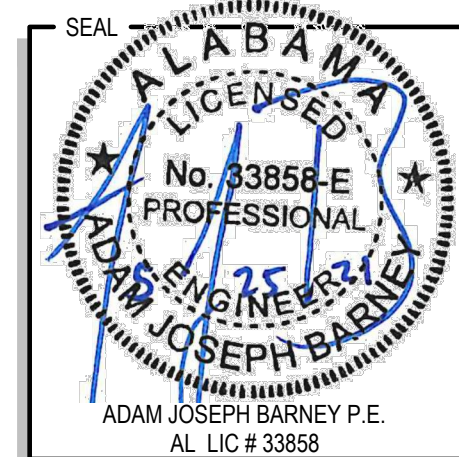
ARCHITECT / ENGINEER ADAM JOSEPH BARNEY, PE 118 Harwood Ave Suite #3000 Altamonte Springs, FL 32714 Phone: (321) 972-4466	CLIENT NAME PERMAN ENGINEERING CO. LLC ENGINEERS-CONTRACTORS-DEVELOPERS 2425 LUMBKEY ROAD RAINBOW CITY, AL, 35906	PROJECT NAME FAMILY DOLLAR STORE FD 21-01 PROTO 6A SMALL MARKET MRD. US HIGHWAY 441 CENTRE, ALABAMA	SHEET TITLE Electrical Site Power Plan
SEAL ALABAMA LICENSED No. 33858-E PROFESSIONAL ENGINEER ADAM JOSEPH BARNEY P.E. AL LIC # 33858			
RELEASE		DATE	
PROJECT NO.		2021-056	
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ENGINEERS-CONTRACTORS-DEVELOPERS
2425 LUMBKEY ROAD
RAINBOW CITY, AL. 35906

PROJECT NAME
FAMILY DOLLAR STORE
FD 21-01 PROTO 6A SMALL MARKET MRD.
US HIGHWAY 441
CENTRE, ALABAMA



RELEASE	DATE

PROJECT NO.
2021-056

ISSUE DATE
05-21-21

DRAWN	CHECKED

SHEET NO.
E-6V

SHEET TITLE
Site Lighting Plan

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Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Description
	2	WP5E	SINGLE	6164	0.950	XWM-2-LED-06-40-BB - 8.8' MOUNTING HEIGHT
	2	WP5	SINGLE	6164	0.950	XWM-2-LED-06-40 - 8.8' MOUNTING HEIGHT
	13	WP1	SINGLE	4478	0.950	NEL-WPI40 - 12' MOUNTING HEIGHT
	3	PL1E	SINGLE	31896	0.950	NEL-AL250-4SQ-SINGLE - 22' POLE + 3' BASE

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
DELIVERY AREA SUMMARY	Illuminance	Fc	7.10	10.1	4.1	1.73	2.46
DUMPSTER AREA SUMMARY	Illuminance	Fc	7.50	10.9	4.0	1.88	2.73
PARKING AREA SUMMARY	Illuminance	Fc	3.36	14.6	0.3	11.20	48.67
STORE FRONT AREA SUMMARY	Illuminance	Fc	10.17	12.7	4.0	2.54	3.18

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	PL1E	741685.9	1311828.	25	257.66	0
3	PL1E	741712.3	1311595.	25	78.024	0
4	PL1E	741765.5	1311721.	25	166.201	0
6	WP1	741705.3	1311728.	12	347.681	0
7	WP1	741699.5	1311702.	12	348.484	0
8	WP1	741695.3	1311683.	12	348.411	0
9	WP1	741691.5	1311665.	12	347.56	0
10	WP1	741687.4	1311646.	12	346.825	0
11	WP1	741663.0	1311627.	12	258.686	0
12	WP1	741608.2	1311640.	12	257.09	0
13	WP1	741636.3	1311633.	12	257.472	0
14	WP1	741612.1	1311750.	12	165.429	0
15	WP1	741606.4	1311723.	12	170.095	0
16	WP1	741602.6	1311705.	12	168.307	0
17	WP1	741598.4	1311687.	12	168.694	0
18	WP1	741594.4	1311668.	12	167.123	0
19	WP5	741705.4	1311739.	8.8	78.026	0
20	WP5	741616.9	1311759.	8.8	78.851	0
21	WP5E	741678.2	1311747.	8.8	76.966	0
22	WP5E	741644.7	1311754.	8.8	77.909	0

Ingenuity Designs, LLC
architecture & design
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