



ABBREVIATIONS	
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
A/C	AIR CONDITIONING
ARCH	ARCHITECT(URAL)
@	AT
BLK	BLOCK(ING)
BOT	BOTTOM
BLDG	BUILDING
CLG	CEILING
¢	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
GSB	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
OPH	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

GENERAL NOTES

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL, CODES AND REGULATIONS. CONSTRUCTION SHALL ALSO COMPLY WITH LANDLORD'S CRITERIA (UNLESS PRECLUDED BY CODE).
2. ALL WOOD FRAMEWORK, WOOD BLOCKING AND PLYWOOD SHALL BE FIRE RETARDANT TREATED PER CODE.
3. ALL FINISH MATERIALS SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATING CLASS C (OR CLASS 3).
4. WALL CONSTRUCTION BY THE TENANT'S CONTRACTOR IS SHOWN HATCHED.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BID TO DETERMINE THE EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE TENANT OF ANY DISCREPANCIES PRIOR TO BIDDING.
6. ALL MATERIALS INDICATED ARE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING, AND SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR . ITEMS INDICATED AS TENANT SUPPLIED SHALL BE INSTALLED BY THE CONTRACTOR PER TENANT'S REQUIREMENTS AND/OR MANUFACTURER'S PUBLISHED STANDARDS.
7. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED OR REPAIRED TO MATCH THE EXISTING ADJACENT MATERIALS, SO THAT THE REPAIR IS IMPERCEPTIBLE.
8. DURING THE COURSE OF CONSTRUCTION, IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH IMMEDIATELY.
9. CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/ PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRIAL/ASSOCIATION STANDARDS.
10. FIELD VERIFY AND/OR REPORT ASBESTOS-CONTAINING MATERIAL TO ARCHITECT AND TENANT UPON DISCOVERY.
11. ALL INTERIOR CONCRETE SHALL BE PORTLAND CEMENT BASED TO INCLUDE PATCHING, FLOATING/LEVELING OF FLOORS AND INFILLING.
12. ANY DETAIL WHICH MAY BE INCOMPLETE OR LACKING IN THE PLANS OR SPECIFICATIONS SHALL NOT CONSTITUTE CLAIM FOR EXTRA COMPENSATION. SUCH DETAIL, IF REQUESTED BY THE CONTRACTOR, SHALL BE SUPPLIED BY THE ENGINEER/ARCHITECT AND SUBMITTED TO THE CONTRACTOR IN ADVANCE OF ITS REQUIREMENT ON THE JOB. THE TRUE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PRODUCE A COMPLETE WORKING FACILITY AND INCOMPLETE DETAIL WILL NOT ABOGATE THIS INTENT.
13. THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS (WITH THEIR STAMP OF APPROVAL) AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR APPROVAL BY THE ARCHITECT/ENGINEER OF RECORD.

NEW WORK NOTES

1. PROVIDE TENANT IDENTIFICATION SIGN AT REAR DOOR PER LANDLORD'S CRITERIA.
2. (J) 2A-10BC RATED FIRE EXTINGUISHERS TO BE TENANT SUPPLIED. SIMILAR TO JL INDUSTRIES MODEL COSMIC SE. LOCATE EXTINGUISHERS AS SHOWN. PROVIDE WALL BRACKETS AND MOUNT CONTROLS AT 48" AFF MAX. PROVIDE "FIRE EXTINGUISHER" SIGNS ON WALL DIRECTLY ABOVE EACH UNIT. CONTRACTOR SHALL HAVE EXTINGUISHERS INSPECTED AND TAGGED.
3. THE CONTRACTOR SHALL VERIFY THAT TOILET ROOM(S), INCLUDING FIXTURES AND ACCESSORIES (BOTH EXISTING AND NEW) MEET ALL APPLICABLE LOCAL, STATE AND FEDERAL ACCESSIBILITY CODES AND LAWS.
4. PROVIDE EXTERIOR LIGHT ABOVE REAR DOOR, AS APPROVED BY LANDLORD, IF ONE DOES NOT EXIST WITHIN 10 FEET OF REAR DOOR.
5. PAINT ALL EXPOSED SURFACE MOUNTED CONDUIT TO MATCH ADJACENT WALL COLOR (IE WHITE OR YELLOW).
6. CONTRACTOR SHALL CAULK AROUND TOP AND BOTTOM EDGES OF COLUMN SURROUNDS TO AVOID INJURY.
7. REPAIR AND CLEAN ALL EXISTING MATERIALS (IE STOREFRONT FRAMING AND GLAZING, WALLS, CEILING, ETC) TO REMAIN TO A LIKE NEW CONDITION.
8. NOTIFY FAMILY DOLLAR CONSTRUCTION PM AS TO THE CONDITION OF EXPOSED CONCRETE BLOCK WALL TO REMAIN ON THE SALES FLOOR. FAMILY DOLLAR WILL MAKE THE DETERMINATION AS TO WHETHER THE WALL'S CONDITION IS SUITABLE FOR PAINTING OR NEEDS TO BE FURRED OUT WITH METAL STUDS AND GWB.
9. CONTRACTOR SHALL INSTALL TENANT SUPPLIED FIXTURES TO INCLUDE BUT NOT LIMITED TO CART CORRAL, PERIMETER WALL GONDOLA, FLOOR GONDOLA, BALLOON COUNTER, HANGING BALLOON CORRALS, HELIUM TANK CABINET (SALES FLOOR), AND MOBILE FIXTURES PER TENANT'S FUTURE PLAN.
10. DOORS AND FRAMES (OTHER THAN THOSE LISTED AS EXIST) ARE TENANT SUPPLIED FOR CONTRACTOR INSTALLATION. STOREFRONT DOORS (WHEN NOTED) SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR AS REQUIRED. AUTOMATIC DOORS (WHEN NOTED) WILL BE SUPPLIED AND INSTALLED BY TENANT'S VENDOR (CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONNECTION.)
11. CONTRACTOR SHALL REMOVE ANY EXISTING SIGNAGE THAT HAS PREVIOUS TENANT'S NAME (INTERIOR AND/OR EXTERIOR.) ANY SIGNAGE THAT IS REQUIRED SHALL BE REPLACED IN LIKE KIND WITH DOLLAR TREE'S NAME.
12. CONTRACTOR SHALL VERIFY IF THERE IS AN EXISTING ACCESS PANEL TO TENANT'S SIGNAGE. IF ACCESS PANEL DOES NOT EXIST, INSTALL 2'-0" X 2'-0" ACCESS PANEL EITHER INSIDE AT DOLLAR TREE'S SPACE ABOVE THE CEILING (VERIFY FIRE RATINGS AND CODE REQUIREMENTS) OR IN THE EXTERIOR SOFFIT TO MATCH CANOPY CONSTRUCTION AS ALLOWED BY LANDLORD. CONFIRM WITH SIGN VENDOR FOR LOCATION PRIOR TO INSTALLING.

<p>13. CONTRACTOR SHALL INSTALL TENANT SUPPLIED INTERIOR GRAPHICS AND SIGNS TO INCLUDE BUT NOT LIMITED TO PERIMETER WALL GRAPHICS/SIGNAGE, HANGING GRAPHICS/SIGNAGE AND STOREFRONT WINDOW DECALS. CONTACT THE CONSTRUCTION PM FOR GRAPHIC/SIGNAGE DRAWINGS.</p> <p>14. CONTRACTOR SHALL SEAL ALL EXTERIOR PENETRATIONS INCLUDING CRACKS, HOLES, GAPS, AND EXISTING PENETRATIONS. CONTRACTOR SHALL SELECT MATERIAL APPROPRIATE FOR CONDITION TO PROVIDE PERMANENT RODENT-PROOF INFILL (INSULATION SPRAY FOAM IS NOT AN ACCEPTABLE FINISHED MATERIAL.)</p> <p>15. CONTRACTOR SHALL POST ON BULLETIN BOARD IN OFFICE FINAL INSPECTIONS & CERTIFICATE OF OCCUPANCY.</p> <p>16. ALL PLAQUE SIGNAGE SHALL BE ATTACHED TO MOUNTING SURFACE WITH CONSTRUCTION ADHESIVE.</p>	<table border="1"> <tr> <td>APPLICABLE BUILDING CODE:</td> <td>2012 NORSFOLK COUNTY</td> </tr> <tr> <td>APPLICABLE PLUMBING CODE:</td> <td>2012 NORSFOLK COUNTY</td> </tr> <tr> <td>USE GROUP:</td> <td>M - MERCANTILE</td> </tr> <tr> <td>CONSTRUCTION TYPE:</td> <td>II B</td> </tr> <tr> <td>NUMBER OF STORIES:</td> <td>ONE</td> </tr> <tr> <td>SPRINKLERED:</td> <td>NO</td> </tr> <tr> <td>TOTAL LEASE AREA:</td> <td>8,391 SF</td> </tr> <tr> <td>OCCUPANCY LOAD:</td> <td>SALES AREA SUPPORT NON-SALE TOTAL</td> </tr> <tr> <td>PROJECT ADDRESS:</td> <td>FAMILY DR 2720 US HWY 1 RUTHERFORD, NJ 07070</td> </tr> <tr> <td>BUILDING DEPARTMENT PHONE NO:</td> <td>(828) 287-3333</td> </tr> <tr> <td>FIRE MONITORING REQUIRED:</td> <td>UNKNOWN</td> </tr> </table>	APPLICABLE BUILDING CODE:	2012 NORSFOLK COUNTY	APPLICABLE PLUMBING CODE:	2012 NORSFOLK COUNTY	USE GROUP:	M - MERCANTILE	CONSTRUCTION TYPE:	II B	NUMBER OF STORIES:	ONE	SPRINKLERED:	NO	TOTAL LEASE AREA:	8,391 SF	OCCUPANCY LOAD:	SALES AREA SUPPORT NON-SALE TOTAL	PROJECT ADDRESS:	FAMILY DR 2720 US HWY 1 RUTHERFORD, NJ 07070	BUILDING DEPARTMENT PHONE NO:	(828) 287-3333	FIRE MONITORING REQUIRED:	UNKNOWN
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TH CAROLINA BUILDING CODE		PROJECT DIRECTORY	
TH CAROLINA PLUMBING CODE			
ANTILE			
6.986 / 30 = 233		ARCHITECT	
726 / 300 = 3		RRMM ARCHITECTS, PC	
679 / 300 = 3		1317 EXECUTIVE BLVD, SUITE 200	
= 239		CHESAPEAKE, VIRGINIA 23320	
		PHONE (757) 622-2828	
		FAX (757) 622-6883	
		CRAIG YARBOROUGH, PM	
		TENANT	
		FAMILY DOLLAR STORES, INC.	
		500 VOLVO PARKWAY	
		CHESAPEAKE, VA 23320	
		PHONE (757) 321-5069	
		FAX (757) 321-5300	
		HAL GREENMAN	
		SIGN CONTRACTOR	
		ALLEN INDUSTRIES	
		6434 BURNT POPLAR RD	
		GREENSBORO, NC 27409	
		PHONE (888) 294-2007 EXT. 3117	
		BRYAN DANIEL	
		LANDLORD	
		STRONACH PROPERTIES	
		4004 BARRETT DRIVE, SUITE 106	
		RALEIGH, NC 27609	
		PHONE (919) 783-7003	
		WILL STRONACH	
N - GC TO CONFIRM			
ENVIRONMENTAL HEALTH NOTES			
1. THIS FACILITY CARRIES ONLY 100 % PRE-PACKAGED FOOD TO INCLUDE THE FREEZER/COOLER PRODUCT.			
2. THIS FACILITY IS A NON DINING FACILITY, NO DINING SEATING WILL BE PROVIDED TO CUSTOMERS.			
3. THIS FACILITY DOES NOT PERFORM ANY TYPE OF FOOD PREPARATION WITHIN THE STORE FOR CUSTOMER CONSUMPTION AND/OR EMPLOYEE CONSUMPTION.			
4. THIS FACILITY HAS NO FOOD EQUIPMENT WITHIN THE STORE.			
5. THIS FACILITY WILL HAVE 3 TO 4 EMPLOYEES PER SHIFT MAXIMUM. ONE STORE MANAGER, ONE TO TWO CASHIERS AND ONE STOCKER.			
6. EMPLOYEE LOCKERS- EASILY CLEANABLE LOCKERS WILL BE PROVIDED TO ALL EMPLOYEES, REFER TO FIXTURE PLAN FOR LOCATION.			
7. MOP SINK- THIS FACILITY WILL BE SUPPLIED WITH A 24"x36" FLOOR MOUNTED MOP SINK WITH APPROVED VACUUM BREAKER FAUCET. WALLS SURROUNDING MOP SINK WILL HAVE FRP TO 8'-0" ABOVE FINISH FLOOR FOR EASY CLEANABLE SURFACE.			
8. NSF, ANSI AND UL APPROVED- ALL EQUIPMENT WITHIN THIS FACILITY IS NSF, ANSI AND UL APPROVED, CUT SHEETS FOR EQUIPMENT AVAILABLE UPON REQUEST.			
9. FINISH SCHEDULE- A FINISH SCHEDULE IS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS AND LOCATED ON SHEET A4 FOR YOUR USE.			
10. QUESTIONS- EXAMINER PLEASE FEEL FREE TO CONTACT THE ARCHITECT OR ENGINEERS LISTED ON SHEET C01 WITH ANY QUESTIONS OR ITEMS YOU NEED CLARIFICATION ON. ALSO YOU CAN CONTACT STEVEN MCMAHON, MANAGER OF ARCHITECTURAL SERVICES FOR FAMILY DOLLAR STORES, INC AT 757-321-5830.			
TION NOTE			
TION OF LANDLORD'S AND FIRE			
ION DESIGN/BUILD, APPROVAL BY			
TION USING FIRE ALARMS PANELS			
AND MONITORING BY VECTOR			
THE ALARM PANELS LISTED			
FOR THE SYSTEM.			
EN AHJ REQUIRES AN			
OMBO PANEL.			
A/A COMBO PANEL.			
A STANDARD FA PANEL			
ASK FOR THE DOLLAR TREE			
E DATE YOU NEED THE PANEL			
IT MANAGER. YOU WILL NEED TO			
RECT SIGNALS ARE BEING			
MARSHAL. REFER TO NOTES IN			
N.			

sheet

CS1

1 EXTERIOR DEMISING WALL: EXISTING METAL WALL PANEL, GIRTS, AND GWB. PATCH AND REPAIR WALL AS REQUIRED. SEE DETAIL 4/A4. FINISH PER FINISH SCHEDULE, SHEET A4.

2. EXTERIOR DEMISING WALL: EXISTING METAL WALL PANEL, GIRTS, AND GWB. PATCH AND REPAIR WALL AS REQUIRED. SEE DETAIL 4/4.1. FINISH PER FINISH SCHEDULE, SHEET A4.
3. PARTITION WALL: 3" 5/8" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 1/2" GWB EACH SIDE TO ROOF DECK. SEE DETAIL 6/4.1. FINISH PER FINISH SCHEDULE, SHEET A4.
4. PARTITION WALL: 3" 5/8" (18 GAGE) METAL STUDS @ 12" OC (4'-0" WIDE ON LONG SIDE AND 3'-0" WIDE ON SHORT SIDE OF MOP SINK) WITH ONE LAYER 1/2" GWB EACH SIDE TO ROOF DECK. PROVIDE WATER RESISTANT GWB ON PLUMBING SIDE ONLY. SEE 2/1A.2. FINISH PER FINISH SCHEDULE SHEET A4.
5. PARTITION WALL: 3" 5/8" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 1/2" GWB EACH EXPOSED SIDE TO FINISHED CEILING, PLUMBING WALLS, TOILET, AND TO FINISHED ON CEILING SUPPORT, OFFICE SIDE. SEE DETAIL 5/4.1. FINISH PER FINISH SCHEDULE, SHEET A4.
6. PLUMBING PARTITION: 6" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 1/2" GWB EACH EXPOSED SIDE TO FINISHED CEILING, PLUMBING WALLS ON INTERIOR OF TOILETS SHALL HAVE WATER RESISTANT GWB. FINISH PER FINISH SCHEDULE, SHEET A4.
7. PARTITION WALL: 3" 5/8" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 1/2" GWB EACH EXPOSED SIDE TO FINISHED CEILING, PLUMBING WALLS ON INTERIOR OF TOILETS SHALL HAVE WATER RESISTANT GWB. SEE DETAIL 3/1A.2. FINISH PER FINISH SCHEDULE, SHEET A4.

G.C. SHALL PROVIDE KEY BOX FOR LOCK ACCESS DURING PUNCHOUT AND
TURNOVER. COMBINATION MUST MATCH LAST FOUR DIGITS OF STORE NUMBER.

DESIGNER NOTE: GC TO PROVIDE EYE BOLT EMBEDDED 12" MIN. INTO TOP
OF LOADING AREA BOLLARD WITH DIAMETER SIZED FOR KEY LOCK BOX.

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

G.C. IS RESPONSIBLE FOR THE "CERTIFICATE OF OCCUPANCY". CERTIFICATE TO BE FRAMED AND MOUNTED IN THE MANAGERS OFFICE. IF MUNICIPALITY DOES NOT ISSUE A CcO, IT IS THE RESPONSIBILITY OF THE G.C. TO GET A LETTER FROM THE MUNICIPALITY STATING AS SUCH ON CITY/COUNTY LETTERHEAD AND THAT LETTER IS TO BE FRAMED AND MOUNTED IN MANAGER'S OFFICE.

SIGN FOR GROUND UP STORES SIGN FOR IN-LINE STORES

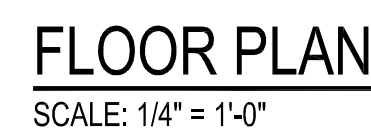


SMOKE FREE NOTE: PROVIDE SIGNAGE AT EVERY ENTRY POINT ON EXTERIOR WALL INTO THE BUILDING PER THE GROUND UP OR IN-LINE STORE TYPE ABOVE. SIGNS MUST BE 10"x7w" IN SIZE. THE MATERIAL IS PREFERRED TO BE ALUMINUM. SIGNS MAY BE FOUND AT WWW.compliancesigns.com

NO HIGH PILED STORAGE, AS DEFINED BY THE CODES GOVERNING THE JURISDICTION IN WHICH THE PROJECT IS CONSTRUCTED, SHALL BE ALLOWED.

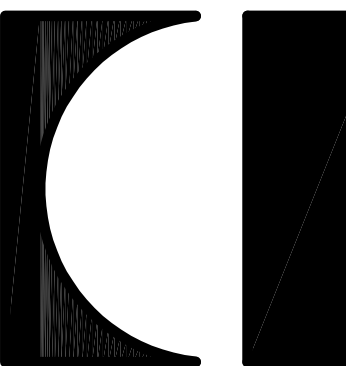
FREEZER / COOLER NOTE:
ALL REACH-IN FREEZER / COOLER UNITS ARE SELF CONTAINED. REFER TO SHEET DS1 FOR SPECIFICATION.

FREEZER / COOLER NOTE:
ALL REACH-IN FREEZER / COOLERS
DS1 FOR SPECIFICATION.



revisions	mark	date	by	description

date	FEB 27, 2018
project	18141-26
designed	CSY
drawn	CSY
checked	DME



RRMM
ARCHITECTS, P.A.
1317 Executive Blvd, Suite 200
Chesapeake, VA 23320
(757)622-2828 / fax (757)622-6111

FAMILY DOLLAR
FAMILY DOLLAR STORE
2720 US HWY 64 - RUTHERFORD, NC

project
drawing

shee

A1

SALES / STOCKROOM DOOR ELEVATION
SCALE: 1/2" = 1'-0"

1
A1.1

DETAIL
SCALE: 3" = 1'-0"

TYPICAL FIXTURE ATTACHMENT DETAIL

FIXTURE / EGRESS PLAN
SCALE: 1/8" = 1'-0"

CONTRACTOR INSTALLED. —

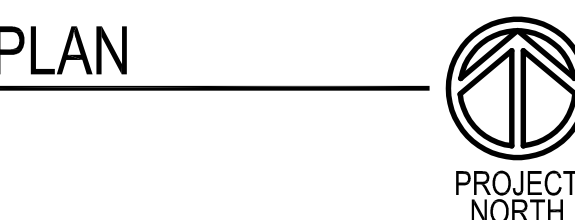
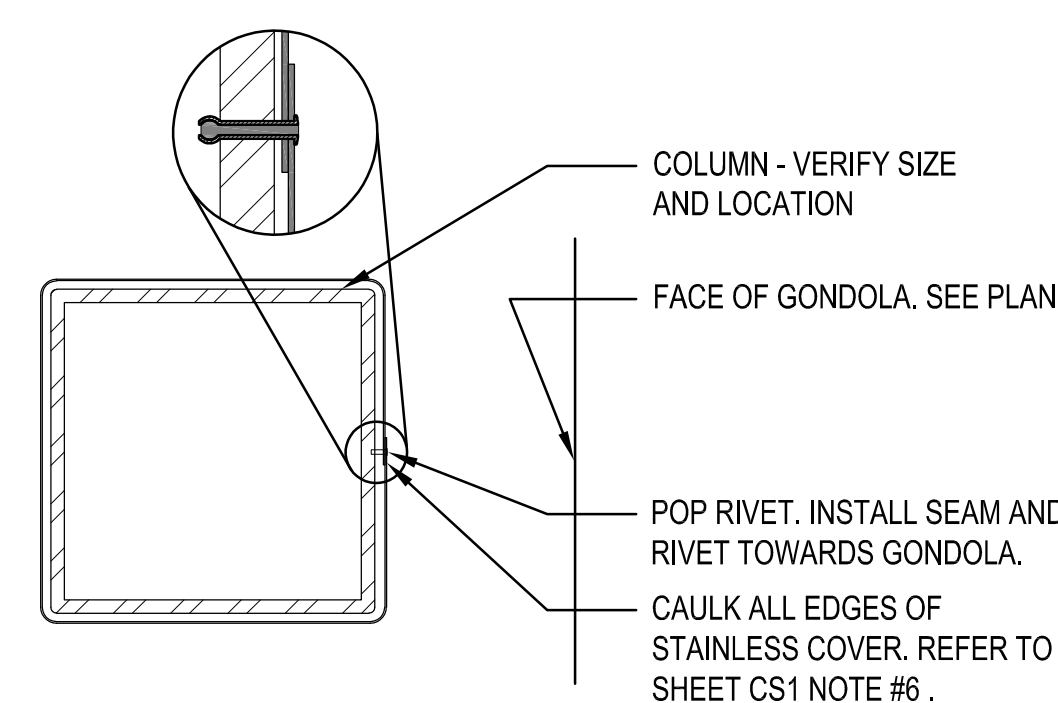
FREIGHT DOOR ELEVATION (EGRESS DOOR SIMILAR)

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

A1.1 SCALE: 1/2" = 1'-0"

TYPICAL CHECKOUT

2 COLUMN DETAIL
A1.1 SCALE: 1 1/2" = 1'-0"



- NOTES:**
1. NO GONDOLA UNITS, FIXTURES, OR PALLETS SHALL BE OVER 8'-0" AFF.
 2. FIXTURE PLAN IS "FOR REFERENCE ONLY." CONTRACTOR SHALL CONTACT FAMILY DOLLAR FOR FINAL APPROVED LAYOUT.
 3. MAXIMUM TRAVEL DISTANCE SHALL BE 200'-0". ACTUAL TRAVEL DISTANCE AS SHOWN: ()
 4. CHECKOUTS ARE NOT ATTACHED TO FLOOR.

- NOTE:
MONITOR NOT INSTALLED IN ALL STORE
LOCATIONS. GC TO VERIFY WITH FAMILY
DOLLAR CONSTRUCTION
REPRESENTATIVE IF MONITOR WILL BE
REQUIRED PER LOCAL CRIME FACTOR.
MONITOR TO BE INSTALLED BY OTHERS.
- NOTE:
MONITOR SCREEN FURNISHED BY
FAMILY DOLLAR STORE, INSTALLED
BY GENERAL CONTRACTOR.

3 MONITOR DETAILS
A1.1 SCALE: 1" = 1'-0"

mark	date	by	description

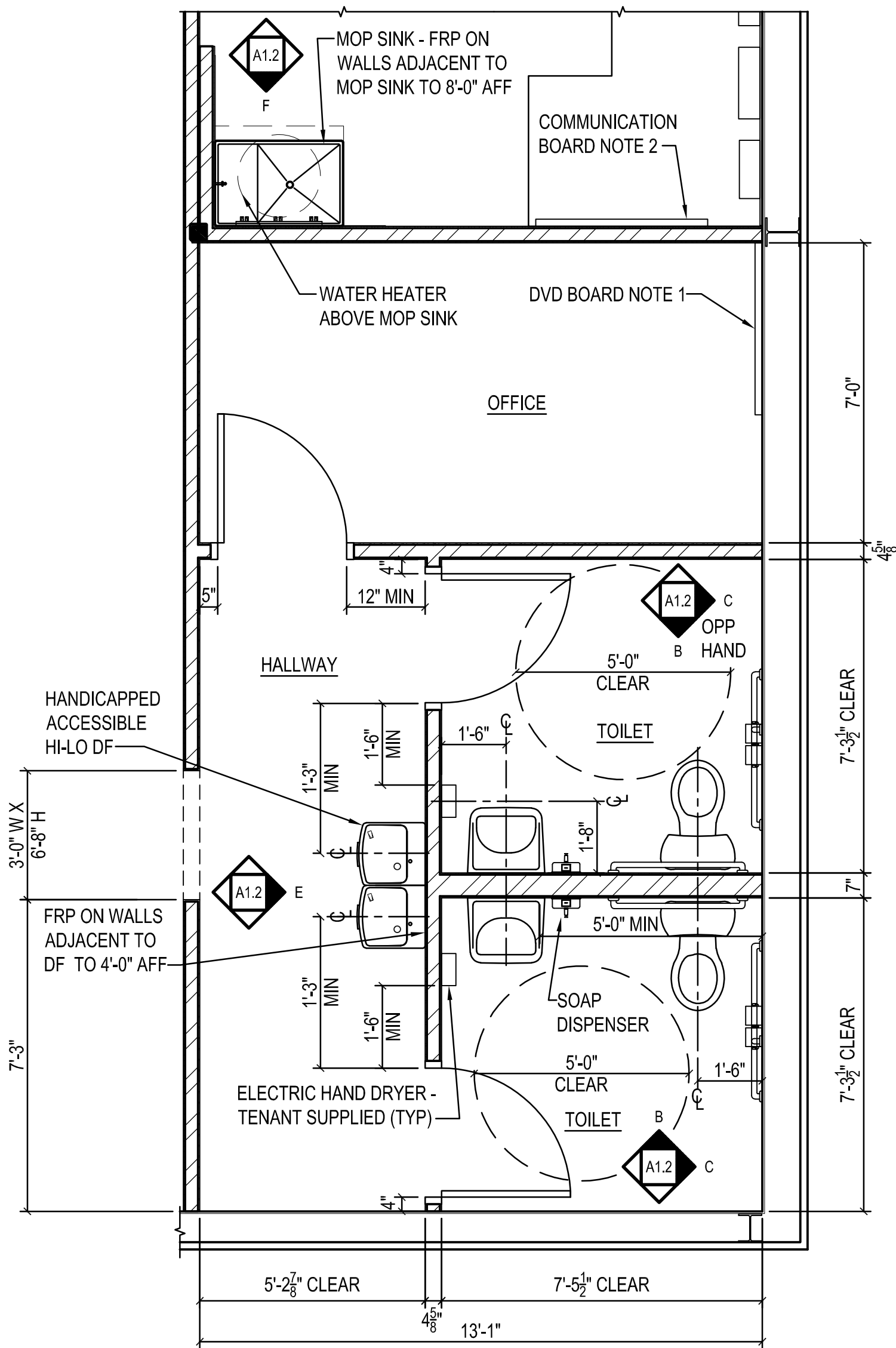
date	FEB 27, 2018
project	18141-26
designed	CSY
drawn	CSY
checked	DNE



project

FAMILY DOLLAR
FAMILY DOLLAR STORE
2720 US HWY 64 - RUTHERFORD, NJ
FIXTURE / EGRESS PLAN, DETAILS, AND ELEVATIONS

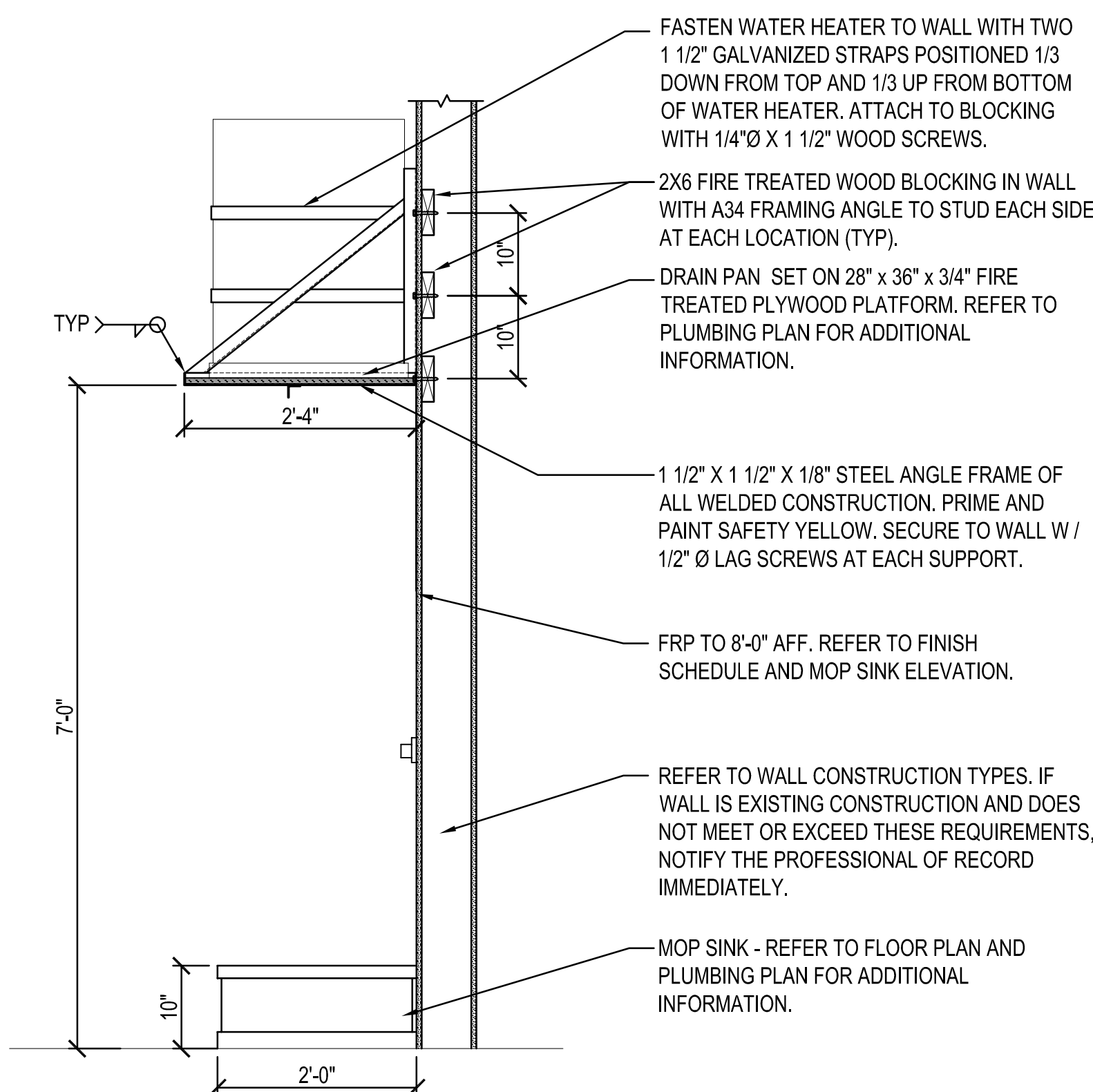
drawing



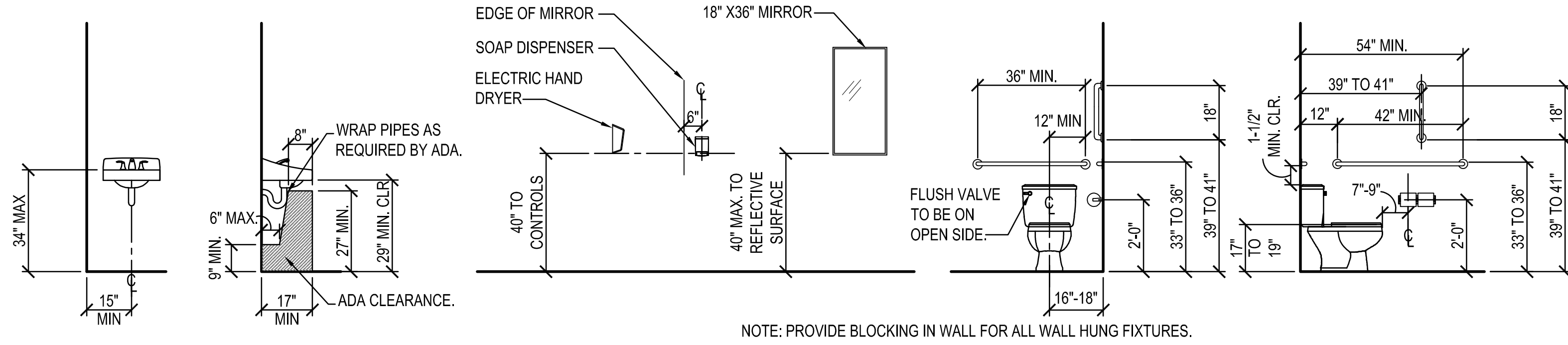
DVD BOARD NOTE 1:
PROVIDE 4'-0"(H) x 4'-0"(W) 3/4" FIRE RETARDANT PLYWOOD WITH A UL CLASSIFICATION STAMP THAT MEETS OR EXCEEDS THE REQUIREMENTS FOR CLASS 1 OR CLASS A FLAME-SPREAD RATING (IBC 2015 SECT. 2303.2) MOUNT FROM TOP 8'-0" A.F.F. WITH EDGE TIGHT AGAINST ADJACENT WALL. SECURE TO FRAMING SO IT HOLDS 250 LBS.

COMMUNICATION BOARD NOTE 2:
PROVIDE SIM. FIRE RETDNT. / UP CLASS PLY WD BOARD 3/4"x4'(W)x8'(H) MOUNTED 24" A.F.F. SECURE TO FRAMING SO IT HOLDS 225 LBS.

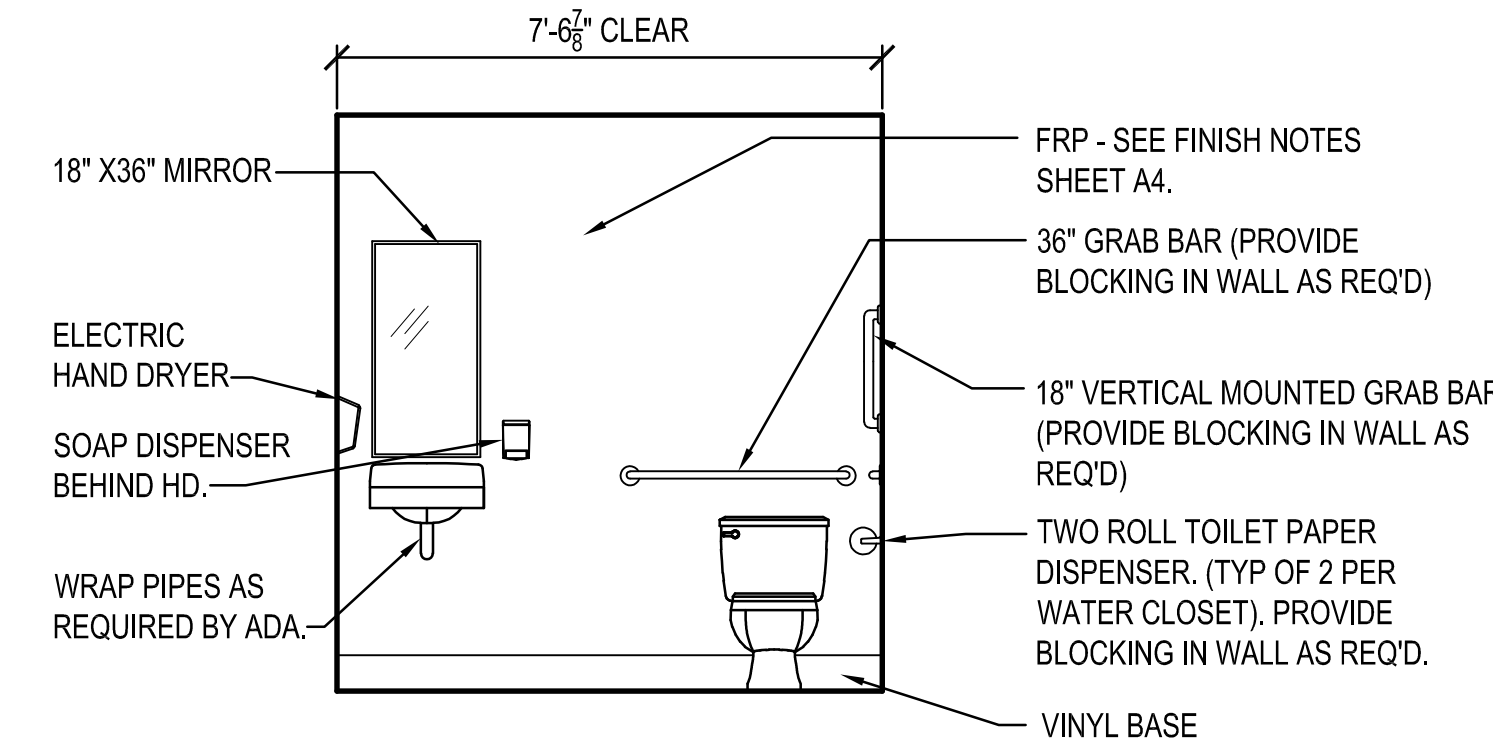
1 ENLARGED PLAN
A1.2 SCALE: 3/8" = 1'-0"



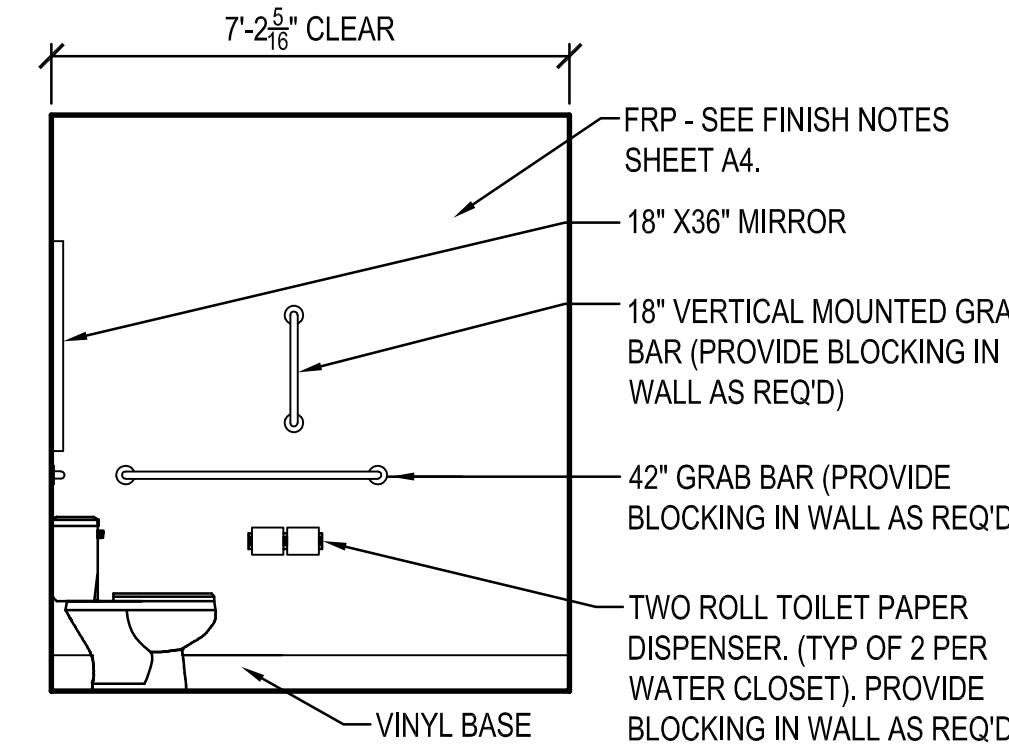
2 WATER HEATER MOUNTING DETAIL
A1.2 SCALE: 3/4" = 1'-0"



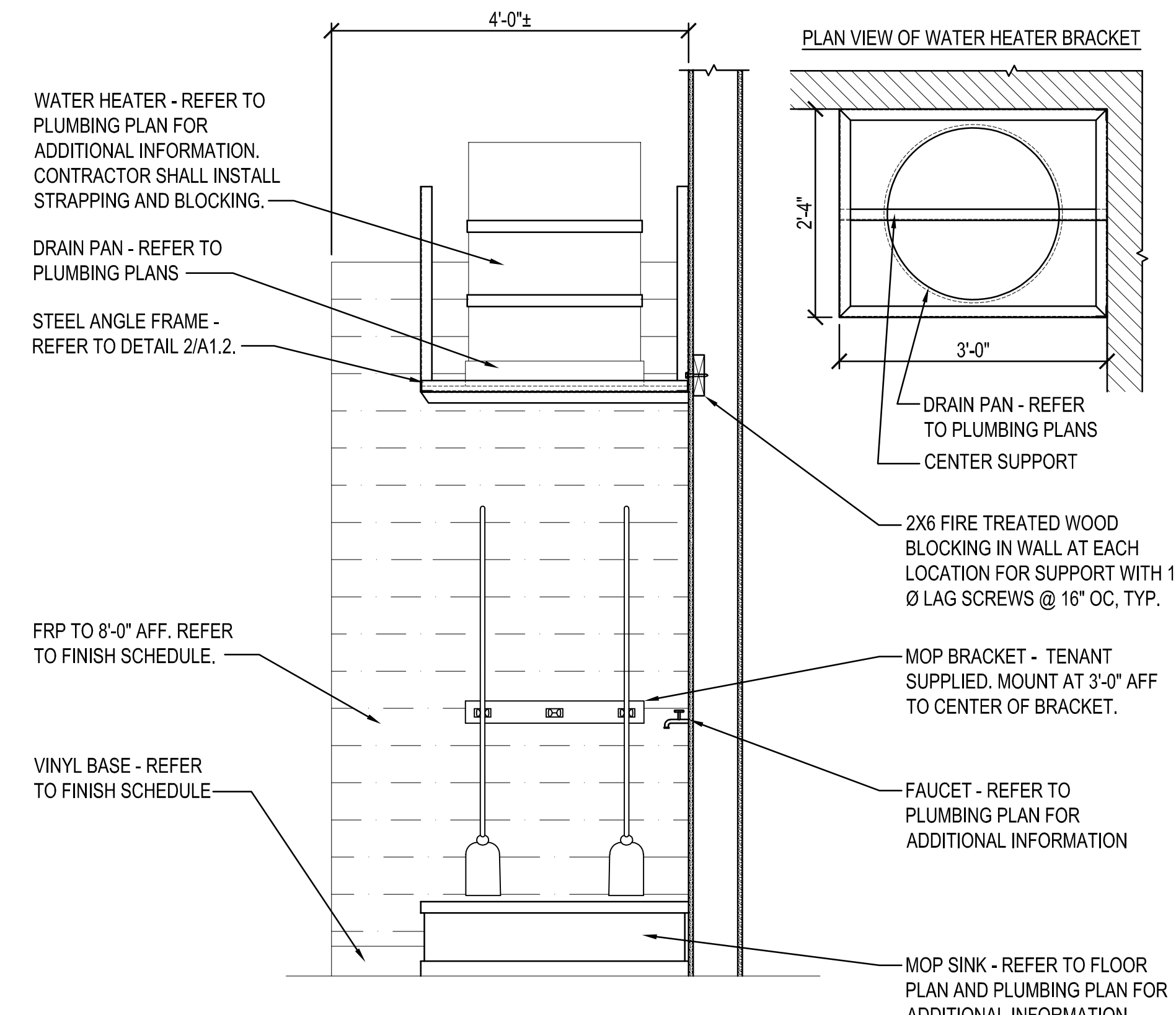
A TYPICAL ACCESSIBILITY CLEARANCES
A1.2 SCALE: 3/8" = 1'-0"



B TOILET ELEVATION
A1.2 SCALE: 3/8" = 1'-0"

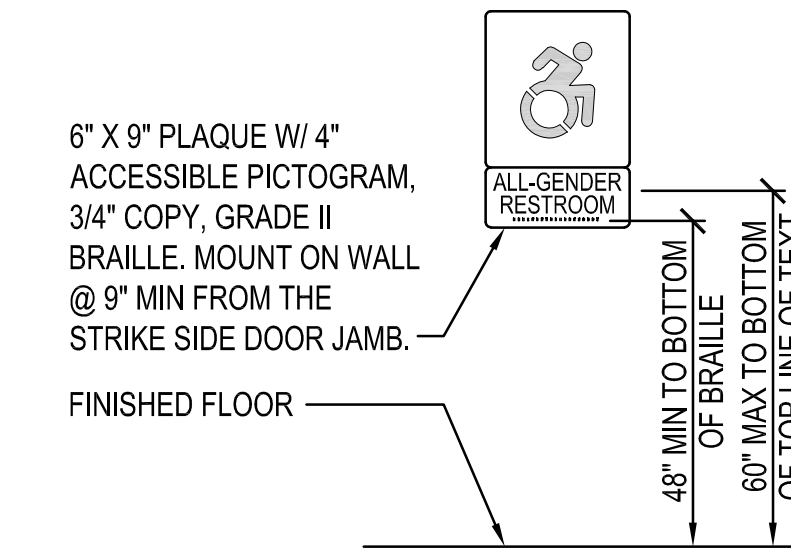


C TOILET ELEVATION
A1.2 SCALE: 3/8" = 1'-0"

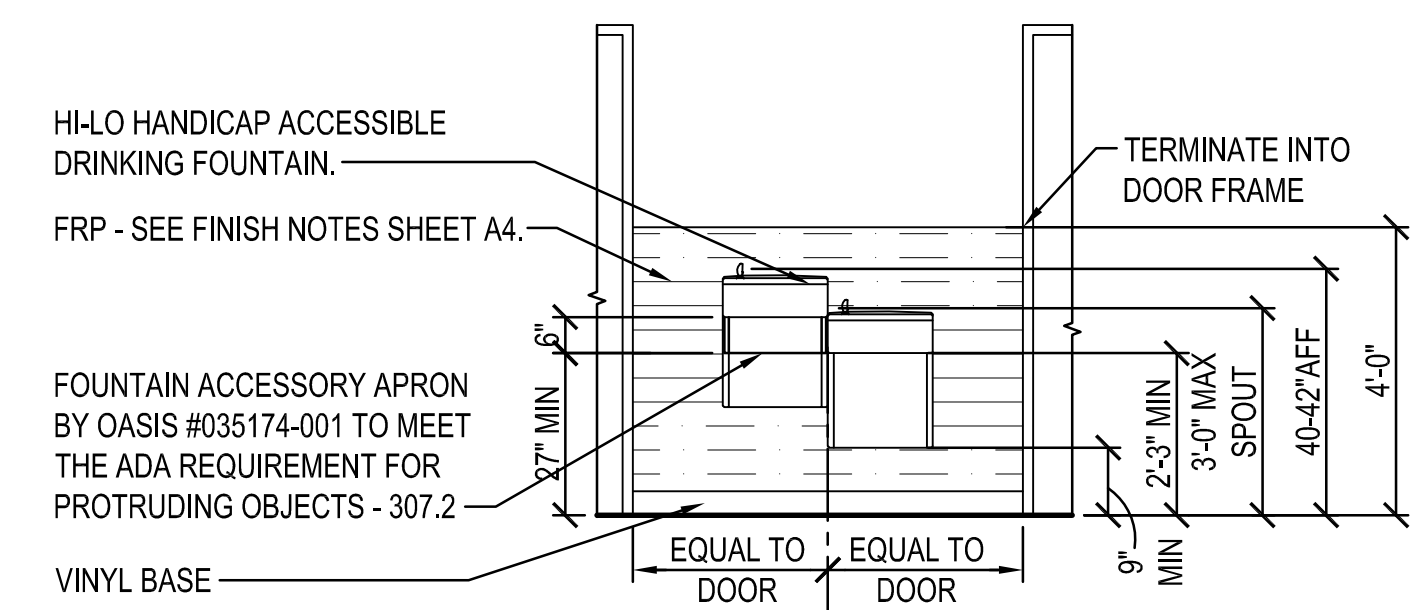


F MOP SINK AND UTILITY CABINET ELEVATION
A1.2 SCALE: 3/4" = 1'-0"

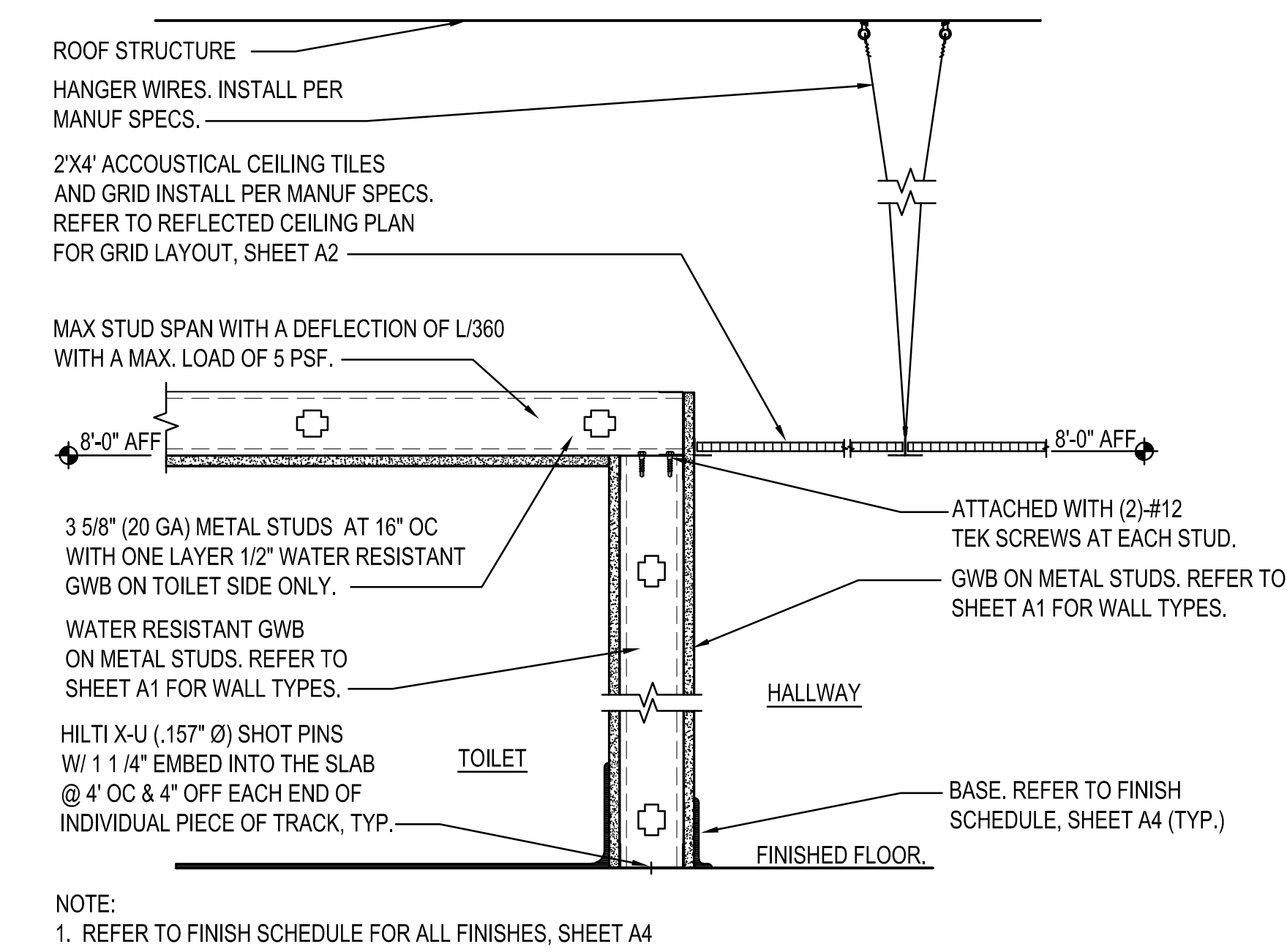
- GENERAL REST ROOM NOTES:**
- LAYOUT OF TOILET ROOM FACILITIES SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING ALL ADA REQUIREMENTS. SUBMIT ANY MODIFIED LAYOUTS TO FAMILY DOLLAR FOR THEIR REVIEW AND APPROVAL.
 - TOILET ACCESSORIES ARE SUPPLIED BY TENANT AND INCLUDE THE FOLLOWING ACCESSORIES 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.
DUAL ROLL TOILET TISSUE DISPENSER, 18 GA. CHROME PLATED STEEL OR APPROVED EQUAL. INSTALL 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.
 - INSTALL CONTINUOUS FIRE RETARDANT TREATED 2x6 BLOCKING BETWEEN STUDS FOR ALL HANDRAILS, GRAB BARS, FIXTURES, BRACKETS, ACCESSORIES, CABINETRY, AND MISC. SPECIALTIES AS REQUIRED, UNLESS NOTED OTHERWISE.
 - USE 5/8" MOISTURE RESISTANT G.W.B. (GREENBOARD) FOR TOILET ROOM WALLS.
 - DOOR HARDWARE MUST BE MOUNTED BETWEEN 34 (MIN.) & 48 INCHES (MAX.)
 - FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.



D SIGNAGE ELEVATIONS
A1.2 SCALE: NTS



E DRINKING FOUNTAIN ELEVATION
A1.2 SCALE: 3/8" = 1'-0"



3 CEILING DETAIL AT TOILET / HALLWAY
A1.2 SCALE: 1 1/2" = 1'-0"

description	
by	
date	
mark	
revisions	
date	project
designed	checked
drawn	drawn
1317 Executive Blvd, Suite 200 Chesapeake, VA 23320 (757) 622-2828 / fax (757) 622-6883	
FAMILY DOLLAR FAMILY DOLLAR STORE 2720 US HWY 64 - RUTHERFORD, NC ENLARGED PLAN, DETAILS, SECTIONS, AND ELEVATIONS	
project	drawing
sheet	
A1.2	

NOTE: 1. THE ELECTRICIAN SHALL INSTALL ADDITIONAL #12 WIRE TIE SUPPORTS FROM THE CEILING GRID TO THE STRUCTURE ABOVE FOR SUPPORT OF THE LIGHT FIXTURES CLIPPED ON THE GRID.
NOTE: 2. LIGHT FIXTURES TENANT SUPPLIED / CONTRACTOR INSTALLED.
NOTE: 3. MOUNT LIGHTS 10'-0" AFF IN STOCKROOM.

REFLECTED CEILING LEGEND

2'-0"x4'-0" ACOUSTICAL CEILING TILE AND TEE GRID SYSTEM - REFER TO FINISH SCHEDULE.

GWB - 1/2" M.R. GWB ON 3 5/8" METAL STUDS 16 OC. REFER TO FINISH SCHEDULE.

8'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON NIGHT LIGHT CIRCUIT. SURFACE MOUNT TO GWB AND ACT CEILING. HANG AT 11'-6" AFF SALES AREA / 10'-0" AFF STOCKROOM IF NO CEILING.

8'-0" STRIP LED LIGHT FIXTURE. SURFACE MOUNT TO GWB AND ACT CEILING. HANG AT 11'-6" AFF SALES AREA / 10'-0" AFF STOCKROOM IF NO CEILING.

8'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK. SURFACE MOUNT TO GWB AND ACT CEILING. FOR FIXTURES WITH 4 LAMPS, THE EMERGENCY BATTERY PACK WILL ONLY OPERATE 2 OF THE LAMPS. HANG AT 11'-6" AFF SALES AREA / 10'-0" AFF STOCKROOM IF NO CEILING.

4'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK. SURFACE MOUNT TO TO GWB AND ACT CEILING.

EXIT LIGHT

EXTERIOR WALL MOUNTED LED LIGHT FIXTURES

CEILING HEIGHT ABOVE FINISH FLOOR

VENTILATION FAN

DIFFUSER

RETURN AIR GRILLE

POWER POLE

SECURITY MONITOR

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

description
by
date
mark
revisions

FEB 27, 2018	18144-28	CSY	CSY	DIE
date	project	designed	drawn	checked

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FAMILY DOLLAR

FAMILY DOLLAR STORE

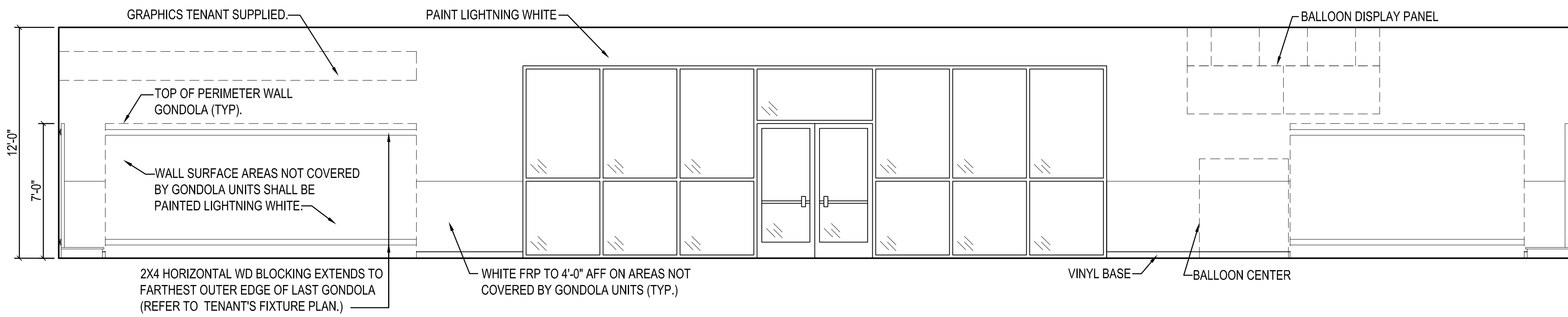
2720 US HWY 64 - RUTHERFORDTON, NC

REFLECTED CEILING PLAN AND LEGEND

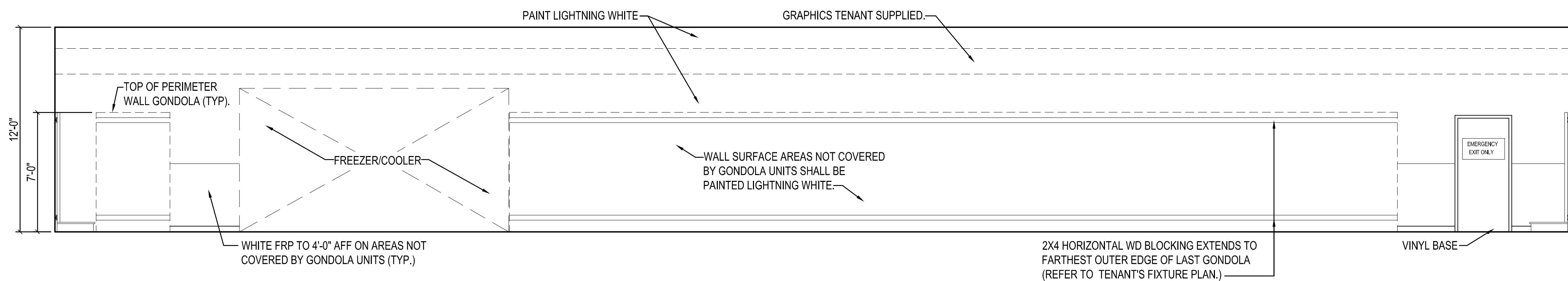
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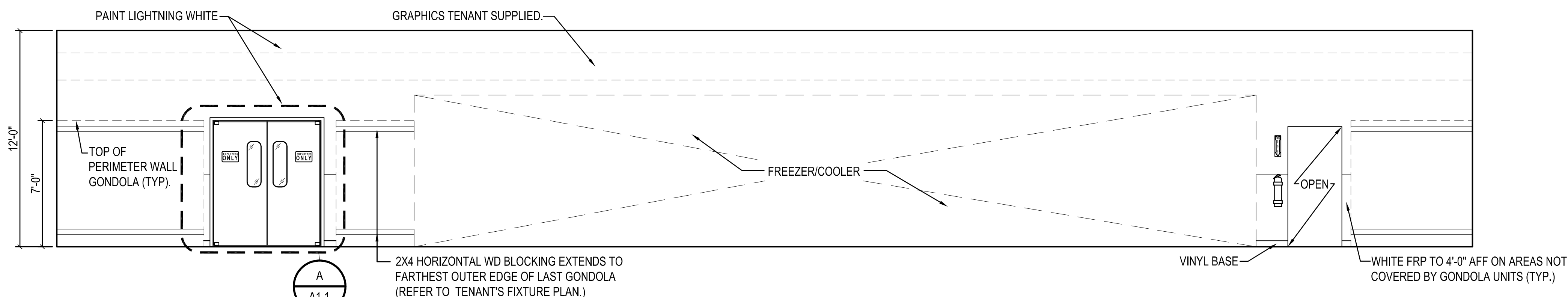
A2



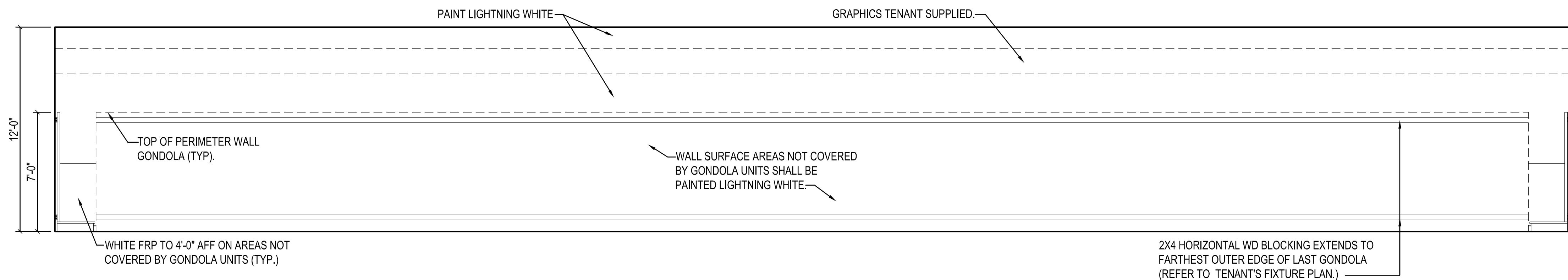
A INTERIOR ELEVATION
A3 SCALE: 1/4" = 1'-0"



B INTERIOR ELEVATION
A3 SCALE: 1/4" = 1'-0"



C INTERIOR ELEVATION
A3 SCALE: 1/4" = 1'-0"



D INTERIOR ELEVATION
A3 SCALE: 1/4" = 1'-0"

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date	project	designed	drawn	checked
FEB 27, 2019	18144-28	CSY	CSY	DE

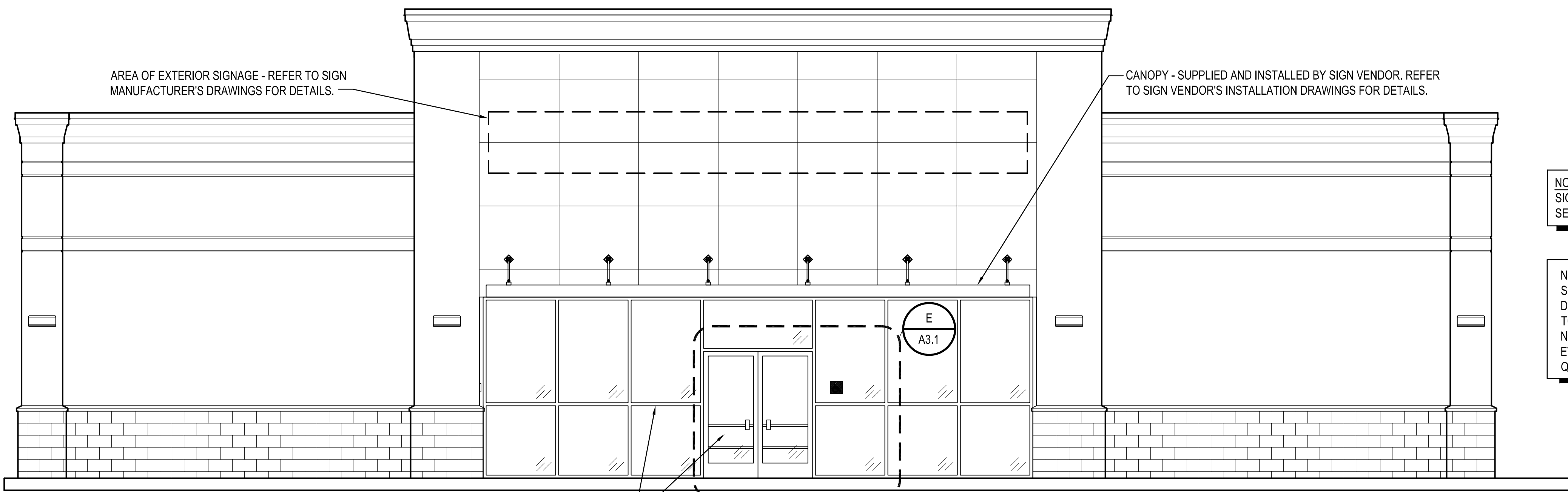


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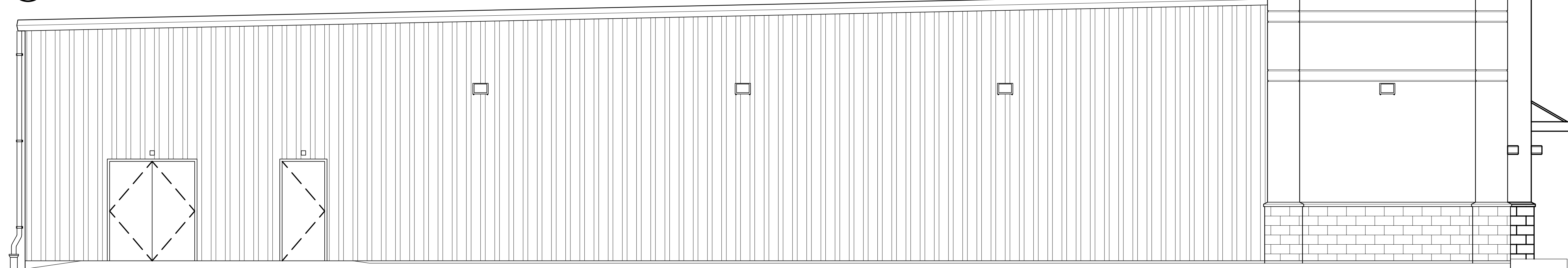
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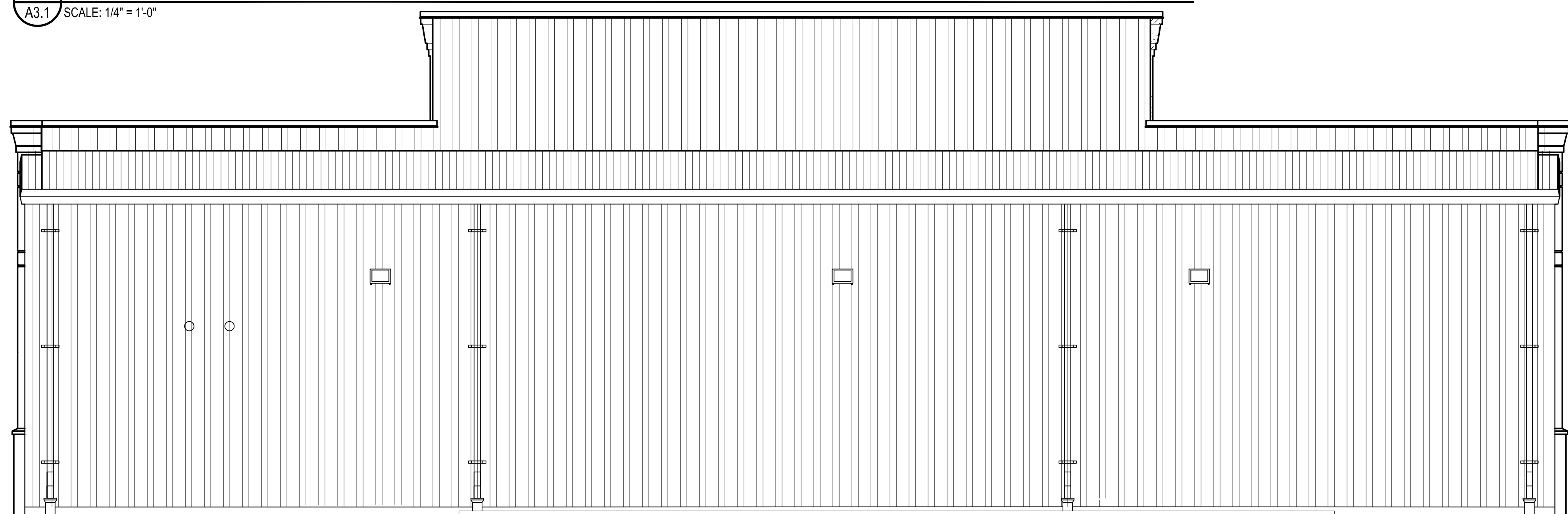
NOTE:
SIGNS, LOCATION, NUMBER AND SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.

NOTES: CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY AND ALL PREVIOUS TENANT'S EXTERIOR SIGNAGE LEFT BEHIND. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY REMOVAL OF PREVIOUS TENANT SIGNAGE SHALL BE PATCHED OR REPAIRED AND PAINTED TO MATCH EXISTING ADJACENT MATERIALS SO THAT THE REPAIR IS IMPERCEPTIBLE. CONTRACTORS SHALL NOT INCLUDE THIS SCOPE OF WORK IN THEIR BID AND WILL BE HANDLED VIA CHANGE ORDER AFTER SITE EVALUATION IS DONE BY WINNING BIDDER. CONTRACTOR SHALL FORWARD THE EVALUATION AND PRICE QUOTE TO THE CONSTRUCTION PM FOR APPROVAL PRIOR TO PERFORMING ANY AND ALL WORK.

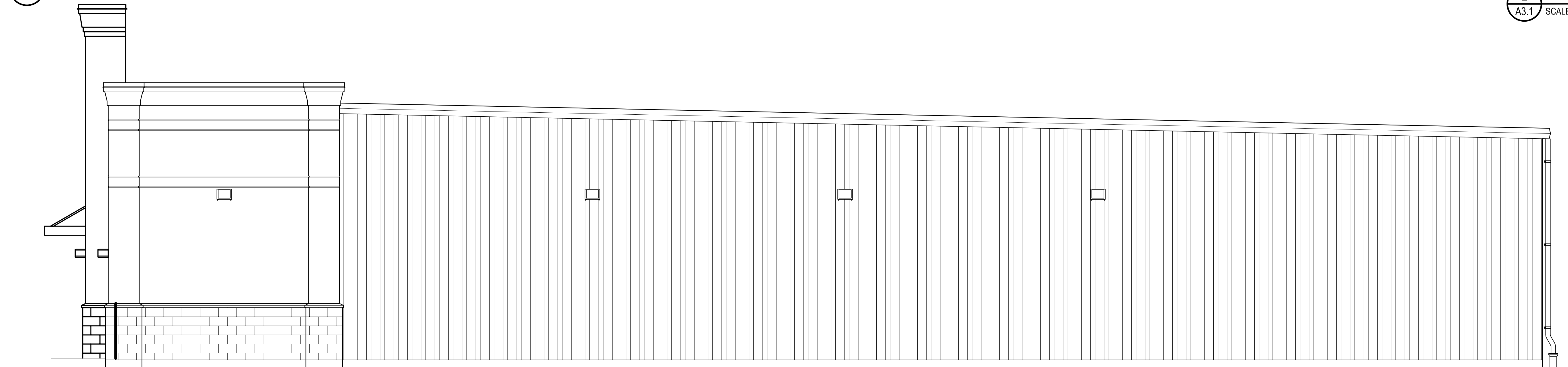
A
A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



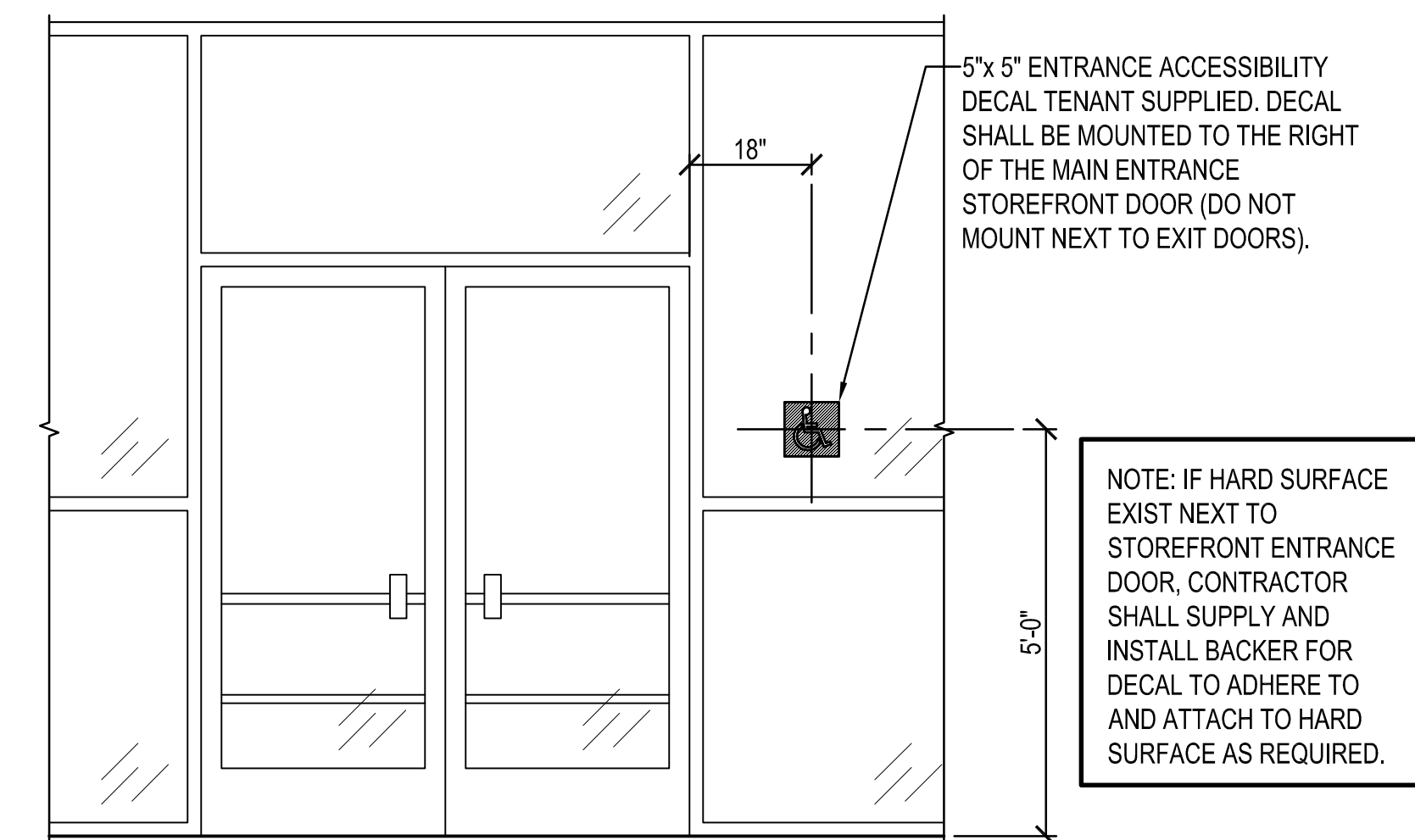
B
A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



C
A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



D
A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



E
A3.1 ACCESSIBILITY DECAL AT STOREFRONT ENTRANCE
SCALE: 1/2" = 1'-0"

description

by
date
mark
revisions

date	project	designed	drawn	checked
FEB 27, 2019	18141-26	CSY	CSY	DE

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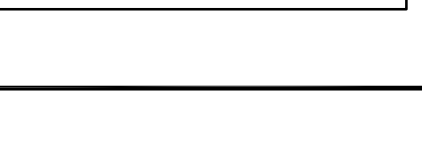
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FAMILY DOLLAR
FAMILY DOLLAR STORE
2720 US HWY 64 - RUTHERFORD, NC
ELEVATIONS

project drawing



FINISH NOTES	
1. WALK-OFF CARPET-INTERFACE "DECO-DIAGONAL/ANTHRACITE GRAPHLAR" 5 SQ. W X 1' SQ. d (+/-8-3"x6"116") WITH TREDSAFE TRANSITION STRIP ON 3 SIDES. BUTT TILE TO DOOR THRESHOLD AND MULLIONS. IN VESTIBULE BUTT CARPET INTO MULLIONS AND PROVIDE TRANSITION STRIP AT INTERIOR DOORS. FILL ENTIRE VESTIBULE WITH CARPET TILES CENERED ON DOOR.	6. SEALER: CLEAR ACRYLIC SEALER BY MASTERKURE, CC 300SB OR FDS APPROVED SUBSTITUTE.
2. TOILET COVE BASE: 4" HIGH FLASH COVE BASE WITH MATCHING TERMINATION STRIP ADHERED TO FRP.	7. POLISHED CONCRETE FLOOR PER MANUFACTURE SPECIFICATIONS BY TENANT'S VENDOR. COORDINATE WITH TENANT.
3. VINYL COVE BASE: 4" HIGH TOPSET COVE VINYL- ARSTRONG, BLACK. VINYL BASE ON EXPOSED AREAS ONLY IN SALES ROOM (NOT BEHIND GONDOLAS AND FREEZER / COOLERS).	8. HOLLOW METAL DOORS AND FRAMES TO BE PRIMED & PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS COLOR TO MATCH WALL SURFACE OF DOOR FACING.
4. PROVIDE 2'-0" X 4'-0" CEILING TILE EQUAL TO ARMSTRONG "CORTEGA" MINABOARD #769, WHITE, IN A WHITE METAL GRID, (IN AREAS WITH SIGNIFICANT AIR PRESSURE DIFFERENTIALS PROVIDE RETENTION CLIPS TO RETAIN PANELS IN PLACE.)	9. SHEET VINYL: ARMSTRONG-CONNECTION CORLON "PORCELAIN" #8872.4.
5. FRP (FIBERGLASS REINFORCED PANEL): IN TOILET ROOM FROM FLOOR TO 8'-0" AFF SHALL BE WHITE COLOR. FRP TO 8'-0" AFF IN SALES SUPPORT BEHIND MOP SINK AND UTILITY CABINET ONLY. FRP ON SALES / HALLWAY TO 4'-0" AFF (WHERE NOTED ON ELEVATIONS ON SALES) SHALL BE PAINT PT-3 COLOR WITH "J" CHANNEL TRIM CAP AND "H" CHANNEL PANEL CONNECTORS.	10. 12" STRIPE AROUND PERIMETER & AROUND COLUMNS: COLOR- PT-8.
	11. EXPOSED STEEL COLUMNS TO BE PAINTED PT-2. ROUND COLUMNS ARE NOT TO RECEIVE COVE BASE.

[illegible]

DOOR NOTES	
1.	ALL DOOR FRAME, CASING OPENING AND HARDWARE MATERIAL WILL BE SUPPLIED BY TENANT. GC IS RESPONSIBLE FOR INSTALLATION.
2.	DOOR TO MEET ADA DOOR OPENING PRESSURE GUIDELINES, MAX. 5 LBS (INT) & 10-15 LBS (EXTERIOR)
3.	ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED IN FIELD TO MATCH WALL SURFACE ON EACH SIDE PER EXTERIOR AND INTERIOR FINISH SCHEDULES.
4.	ALL EXTERIOR DOORS- INSTALL BRUSH STYLE DOOR SWEEPS. HAGER 802S B X MILL (X) X=3", 3/4" OR 4".
5.	STOREFRONT NOTE: PEMB TO NOTIFY GC IF SNOW LOAD AT HEAD BEAM IS EQUAL TO OR GREATER THEN 20 PLF. IF SO THEN GC IS TO PROVIDE MULLION HEAD RECEPTOR
6.	ELIASON DOOR: G.C. IS RESPONSIBLE FOR INSTALLING ELIASON DOOR AND HARDWARE. PREVENT METAL ON METAL CONTACT.
7.	RISK CLASS 0, 1, & 2 STORES-YALE SDA 16XL STAND ALONE ALARM, HAGER EXIT DEVICE, DOUBLE DOOR WILL ALSO HAVE DUST PROOF STRIKE, FLUSH BOLTS AND ASTRAHAL.
8.	RISK CLASS 3 & 4 STORES-YALE SDA 16XL STAND ALONE ALARM, HAGER SVR EXIT DEVICE AND ASTRAHAL. DOUBLE DOOR WILL ALSO HAVE DUST PROOF STRIKE, FLUSH BOLTS.
9.	LOCKS SHALL COME WITH STANDARD 7-PIN SMALL FORMAT INTERCHANGEABLE CORES (SPIC) INCLUDING SECURITY GATES.
10.	G.C. TO PURCHASE INSTAKEE CORES FROM SECURITY SOURCE, DANIELLE COOPER AT 978-983-8142. EMAIL: @dcooper@securitysource.com
11.	STOREFRONT DOOR DEADLATCH SHALL HAVE ACCESSIBLE LEVER & LOCKING STATUS INDICATOR.
12.	PROVIDE NYLON WASHER/GROMMETS AT THE DOOR HANDLES AND CRASH BARS TO PREVENT METAL ON METAL CONTACT.
13.	PROVIDE A SIGN POSTED ON THE EGRESS SIDE, ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." THE SIGN SHALL BE IN LETTERS T HIGH ON A CONTRASTING BACKGROUND.
14.	ELIASON DOORS TO BE FACTORY FINISHED PER DOOR SCHEDULE.
15.	INSTALL TENANT SUPPLIED SIGNAGE PER DETAIL D/A1.2.

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HVAC GENERAL NOTES	
1. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND PER MANUFACTURER'S DIRECTIONS.	16. 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.
2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.	17. PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.	18. ALL ACTUATORS ON MOTORIZED DAMPERS, SMOKE DAMPERS, AND FIRE-SMOKE DAMPERS SHALL BE LOW VOLTAGE UNLESS OTHERWISE NOTED.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOWN 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.	19. 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.
5. DO NOT SCALE DRAWINGS FOR MEASUREMENTS.	20. ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. RUNOUTS (CONCEALED ABOVE CEILINGS) FROM MAINBRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAXIMUM 1/2"-0" FLEX PER RUNOUT.
6. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.	21. THE CONTRACTOR SHALL PROVIDE LOW VOLTAGE CONTROL LINES TO THE PACKAGE UNIT. COORDINATE ROUTING AND INSTALLATION.
7. ALL PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).	23. CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
8. SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE.	24. CONTRACTOR SHALL PAINT ALL VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
9. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.	25. 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-84.
10. 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.	26. CONTRACTOR RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR MECHANICAL EQUIPMENT.
11. LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).	
12. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.	
13. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.	
14. REFER TO MECHANICAL DUCTWORK AND INSULATION NOTES ON MECHANICAL FLOOR PLAN FOR DUCTWORK INSULATION REQUIREMENTS.	
15. CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE AND PD 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.	

HVAC UNITS AND ACCESSORIES ARE EXISTING, PROVIDED BY LANDLORD AS PART OF SHELL BUILDING. SCHEDULE IS SHOWN FOR REFERENCE ONLY.

NOTE: HVAC UNITS ARE SINGLE PHASE

PACKAGED DX COOLING / GAS HEATING GROUND MOUNTED UNIT SCHEDULE																		
UNIT NO.	SUPPLY - FAN DATA					HEATING CAPACITY		COOLING CAPACITY			ELECTRICAL DATA					CONTROL SCHEME	MANUFACTURER & MODEL	NOTES
	TOTAL CFM	O/A CFM	MIN.EXT. S.P. (IN.HG)	FAN RPM	MOTOR H.P.	INPUT MBH	OUTPUT MBH	EFF. %	TOTAL MBH	SENSIBLE MBH	SEER EER IER	VOLT/PH	MCA	MAX FUSE	FLA/ LRA			
AC-1 (5 TONS) (MED HEAT)	2000	275	0.8	1144	1.5 (BELT)	112	90	81.0	63.6	47.1	15.2 SEER 12.0 EER	230/1Ø	39.8	60	39/ 172	THERMOSTAT	YORK ZYG06E	1 2 3 4 5 6 7 8 9 10 11 12 13 14
AC-2 (5 TONS) (MED HEAT)	2000	275	0.8	1144	1.5 (BELT)	112	90	81.0	63.6	47.1	15.2 SEER 12.0 EER	230/1Ø	39.8	60	39/ 172	THERMOSTAT	YORK ZYG06E	1 2 3 4 5 6 7 8 9 10 11 12 13 14
AC-3 (5 TONS) (MED HEAT)	2000	275	0.8	1144	1.5 (BELT)	112	90	81.0	63.6	47.1	15.2 SEER 12.0 EER	230/1Ø	39.8	60	39/ 172	THERMOSTAT	YORK ZYG06E	1 2 3 4 5 6 7 8 9 10 11 12 13 14
AC-4 (5 TONS) (MED HEAT)	2000	275	0.8	1144	1.5 (BELT)	112	90	81.0	63.6	47.1	15.2 SEER 12.0 EER	230/1Ø	39.8	60	39/ 172	THERMOSTAT	YORK ZYG06E	1 2 3 4 5 6 7 8 9 10 11 12 13 14
AC-5 (4 TONS) (MED HEAT)	1600	150	0.8	1176	1.5 (BELT)	112	90	81.0	54.8	38.4	15.4 SEER 12.0 EER	230/1Ø	35.7	50	35/ 156	THERMOSTAT	YORK ZYG06E	1 2 3 4 5 6 7 8 9 10 11 12 13 14

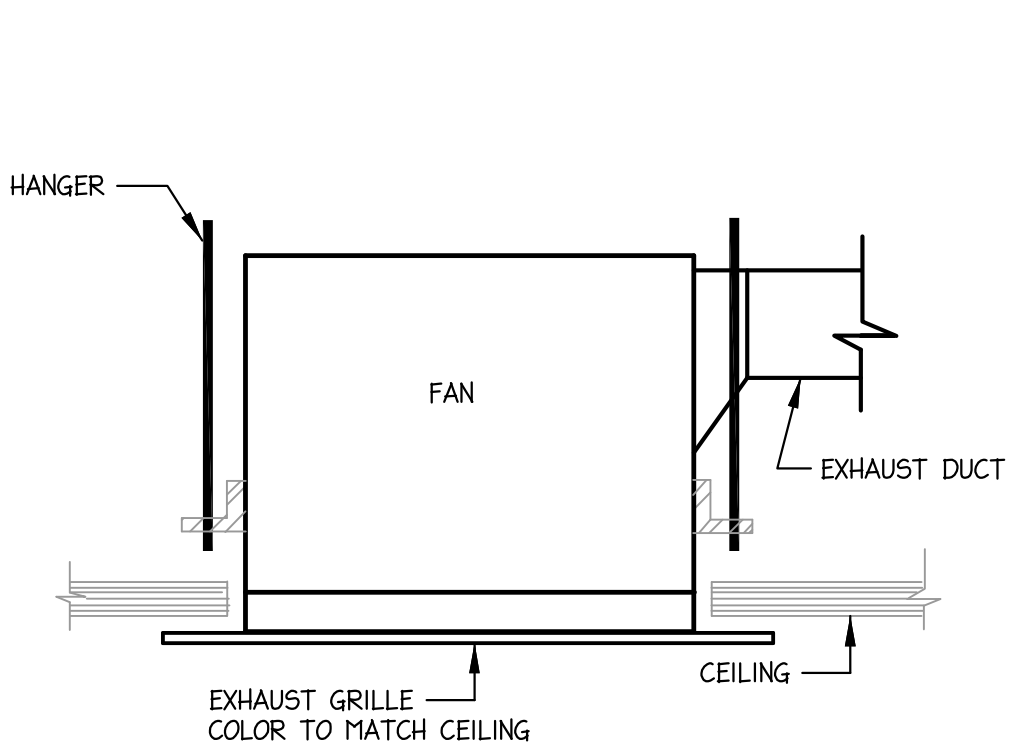
- NOTES:
- COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARDS 210/240 (3-5 TON UNITS) AND 340/360 (6-12.5 TON UNITS) AT 85° AMBIENT OUTDOOR AIR TEMP., 80° DRY BULB, 67° NET BULB ENTRANCE AIR TEMP., AND NOMINAL AIR QUANTITY LISTED.
 - PROVIDE NEW FILTERS IN EACH UNIT AT TURNOVER TO TENANT.
 - HVAC UNITS SHALL BE PROVIDED BY CONTRACTOR.
 - HVAC UNITS SHALL BE PURCHASED THRU NATIONAL ACCOUNT. SEE HVAC EQUIPMENT NATIONAL ACCOUNT NOTE.
 - 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.

- (ACCESSORIES/OPTIONS REQUIRED BY FD)
- PROVIDE FIELD INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER WITH 100% BAROMETRIC RELIEF CAPABILITY.
 - FACTORY INSTALLED DIFFERENTIAL ENTHALPY CONTROLS.
 - PROVIDE FACTORY INSTALLED UNIT MOUNTED CO2 SENSOR.
 - PROVIDE FACTORY INSTALLED CONDENSOR COIL LOUVERED RAIL GUARDS.
 - PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.
 - PROVIDE FACTORY INSTALLED NON-POWERED CONVENIENCE OUTLET.
 - PROVIDE FIELD INSTALLED FLUE DISCHARGE DEFLECTOR WITH EXTENSION TO PROVIDE MINIMUM 3' VERTICAL SEPARATION BETWEEN TOP OF FLUE VENT DISCHARGE AND ADJACENT HVAC UNIT OUTSIDE AIR OPENING.

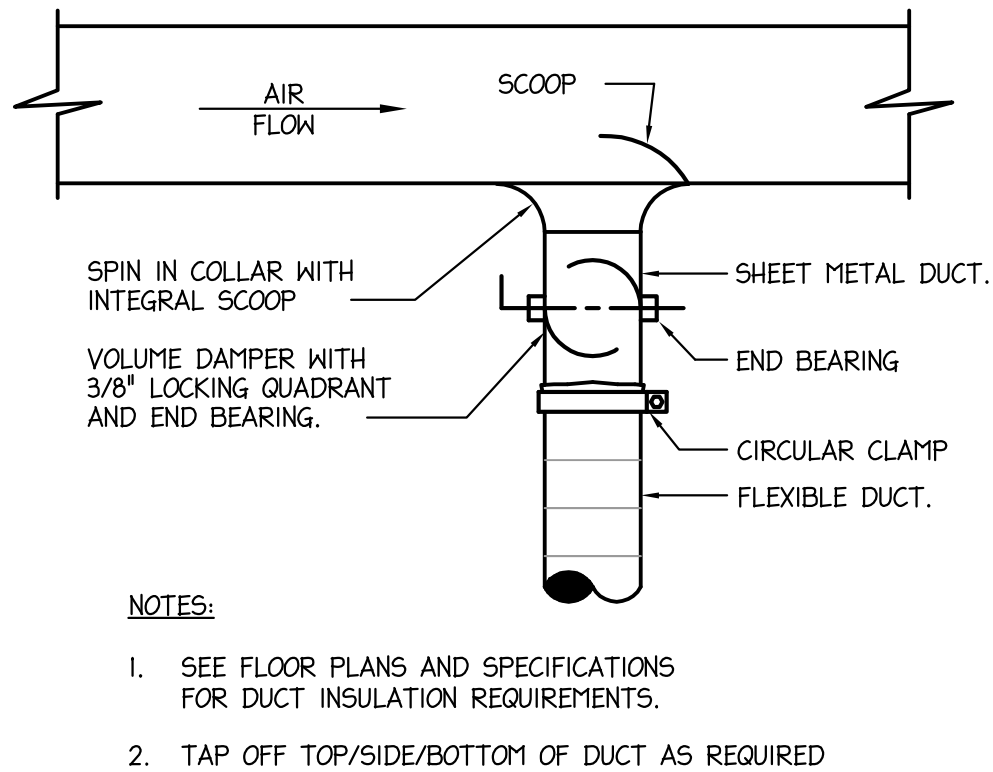
- (AS NOTED IN SCHEDULE OR AS RECOMMENDED BY MANUFACTURER FOR STORE LOCATION)
- PROVIDE FIELD INSTALLED PROPANE GAS CONVERSION KIT.
 - PROVIDE FIELD INSTALLED GAS PRESSURE REGULATOR (2 PSI TO 11" W.C.).
 - PROVIDE FACTORY INSTALLED COATED EVAPORATOR AND CONDENSOR COILS FOR COASTAL/CORROSIVE ENVIRONMENTS.
 - PROVIDE FACTORY INSTALLED STAINLESS STEEL GAS HEAT EXCHANGER FOR COASTAL/CORROSIVE ENVIRONMENTS.
 - PROVIDE FIELD INSTALLED GAS HEAT HIGH ALTITUDE CONVERSION KIT FOR ALTITUDES 2000 FT TO 4000 FT.

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
NOTES:										CONTROL OPTIONS:	
1. INTEGRAL BACKDRAFT DAMPER.										A. CONTROL W/ ROOM LIGHTS	
2. INTEGRAL DISCONNECT SWITCH											
3. SPEED CONTROLLER LOCATED ABOVE CEILING NEAR FAN											
4. MODEL RDC - ROUND DUCT CONNECTOR WITH DAMPER.											

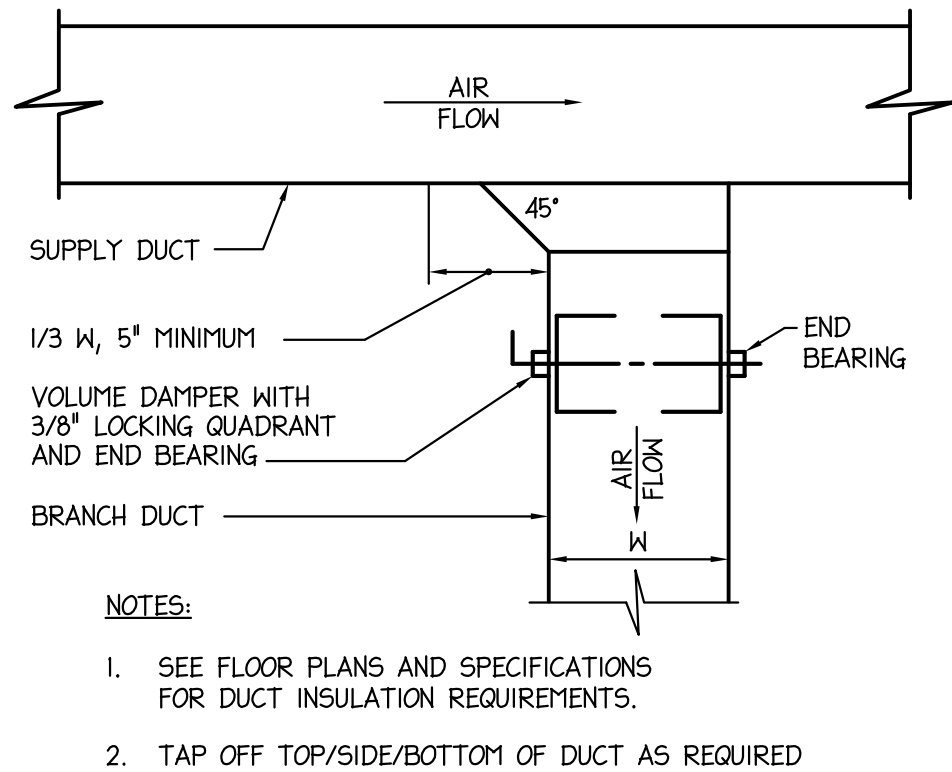
DIFFUSER SCHEDULE											
SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
(A)	SEE PLANS	SEE PLANS	12x12	SURFACE	4-WAY	YES	ALUMINUM	SUPPLY	WHITE	METALAIRE 5700	I
(B)	SEE PLANS	SEE PLANS	24x24	LAY-IN	4-WAY	YES	ALUMINUM	SUPPLY	WHITE	METALAIRE 5700	I
(C)	SEE PLANS	SEE PLANS	SEE PLANS	SURFACE	DOUBLE DEFLECTION	YES	ALUMINUM	SUPPLY	WHITE	METALAIRE V4004D	I
(D)	SEE PLANS	SEE PLANS	SEE PLANS	LAY-IN	NA	NO	ALUMINUM	RETURN	WHITE	METALAIRE CG1	I
(E)	SEE PLANS	SEE PLANS	SEE PLANS	SURFACE	-	NO	ALUMINUM	TRANSFER	WHITE	METALAIRE RH	I
(F)	SEE PLANS	SEE PLANS	SEE PLANS	DOOR	-	NO	ALUMINUM	TRANSFER	WHITE	METALAIRE DG DF	I
NOTES: 1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS: DIFFUSER OR NECK SIZE: 6x4 75 DIFFUSER TYPE AS NOTED ABOVE AIR QUANTITY											



1 EXHAUST FAN DETAIL
NO SCALE



2 BRANCH TAKEOFF TO SINGLE OUTLET
NO SCALE

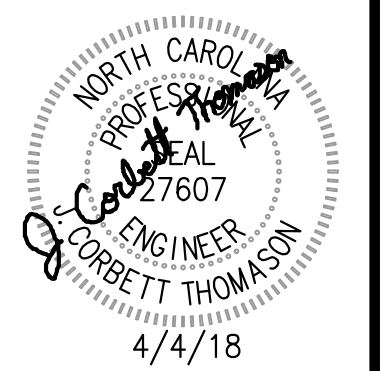


3 BRANCH TAKEOFF
NO SCALE

NOTE TO CONTRACTORS

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

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description

by

date

mark

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18/02/2018	18/04/20	ACT	ACT	ACT
date	project	designed	drawn	checked

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FAMILY DOLLAR
FAMILY DOLLAR STORE
2720 US HWY 64, RUTHERFORD, NC
MECHANICAL COVER SHEET

project

drawing

sheet

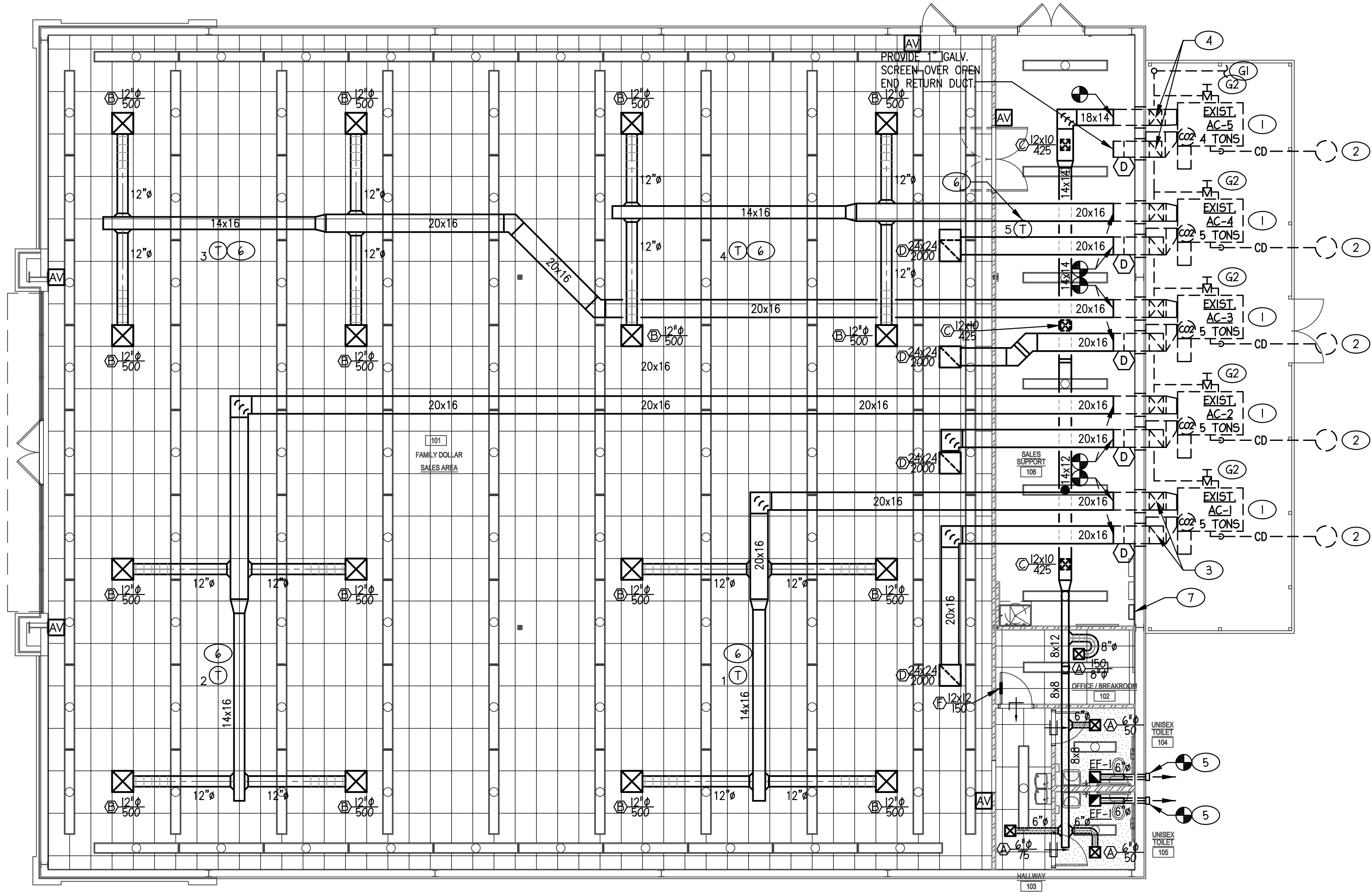
M-1



MECHANICAL LEGEND	
	RECTANGULAR DUCT
	ROUND METAL DUCT
	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.
	POINT OF CONNECTION TO EXISTING.

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 AND LIGHTS SHALL BE INSTALLED AT 10'-0" TO BOTTOM OF LIGHT FIXTURE. BOTTOM OF SUPPLY AND RETURN DUCTWORK IN SALES SUPPORT AREA SHALL BE INSTALLED MINIMUM 10'-6" AFF. FOR THE OFFICE, HALL AND RESTROOMS, A CEILING IS BEING INSTALLED AT 8'-0" AFF. BOTTOM OF SUPPLY AND RETURN DUCTWORK SHALL BE RUN ABOVE CEILING TO ALLOW ADEQUATE ACCESS. IT IS THE RESPONSIBILITY OF CONTRACTOR TO VISIT SITE AND FIELD COORDINATE DUCTWORK SIZES AND LAYOUT WITH EXISTING SHELL BUILDING 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	
1	EXISTING GROUND MOUNTED PACKAGED HVAC UNITS, PROVIDED AS PART OF SHELL BUILDING INCLUDING THE FOLLOWING: PROPANE TANK AND GAS PIPING CONDENSATE PIPING TO DRYWELL EXTERIOR DUCTWORK RUN AND STUBBED TO 24" INSIDE BUILDING DUCT SMOKE DETECTORS THERMOSTATS AT INTERIOR COLUMNS
2	EXISTING CONDENSATE DRYWELL, PROVIDED AS PART OF SHELL BUILDING.
3	EXISTING 20x16 RA & S.A. UP WALL AND THRU 26x22 OPENING IN METAL BUILDING WALL AND STUBBED TO 24" INSIDE BUILDING. CONTRACTOR SHALL FIELD VERIFY EXISTING DUCTWORK SIZE, LOCATION AND HEIGHT. CONTRACTOR SHALL FIELD VERIFY THAT EXISTING DUCTWORK HEIGHT TO BOTTOM OF DUCTWORK IS MINIMUM 12'-6" AFF. (TYP. AC-1,2,3 & 4)
4	EXISTING 18x14 RA & S.A. UP WALL AND THRU 24x20 OPENING IN METAL BUILDING WALL AND STUBBED TO 24" INSIDE BUILDING. CONTRACTOR SHALL FIELD VERIFY EXISTING DUCTWORK SIZE, LOCATION AND HEIGHT. CONTRACTOR SHALL FIELD VERIFY THAT EXISTING DUCTWORK HEIGHT TO BOTTOM OF DUCTWORK IS MINIMUM 12'-6" AFF. (TYP. AC-5)
5	EXISTING HOODED WALL CAP AND 6" DIAMETER EXHAUST DUCT STUBBED INTO BUILDING, PROVIDED AS PART OF SHELL BUILDING. CONTRACTOR SHALL EXTEND 6" RIGID SHEET METAL EXHAUST DUCTWORK AND CONNECT TO RESTROOM EXHAUST FAN.
6	CONTRACTOR SHALL RELOCATE EXISTING THERMOSTAT TO LOCATION AS SHOWN ON PLANS. MOUNT AT 9'0" A.F.F. AT TIME OF INSTALLATION OF VENSTAR EMS, STANDARD THERMOSTAT SHALL BE REPLACED WITH PERMANENT REMOTE SENSOR.
7	VENSTAR ENERGY MANAGEMENT SYSTEM (EMS). EMS SHALL BE SUPPLIED BY FAMILY DOLLAR AND INSTALLED BY CONTRACTOR. SEE SHEET E-5 FOR INSTALLATION DETAILS.
8	INSTALL TOP OF TRANSFER GRILLE 6" BELOW CEILING.
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: 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 CEILINGS 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 685. SHEET METAL SIZES SHALL BE INCREASED ACCORDINGLY TO ALLOW FOR DUCT LINER.	



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

description	
by	
date	
mark	revisions

FEB 27 2018	180428	ACT	ACT	ACT
date	project	designed	dwn	checked

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MECHANICAL UPFIT PLAN

project	drawing
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"TOILET-IN-A-BOX" SEE FIXTURE NOTE 1.

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE																			
MARK	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	STYLE	FAUCET/VALVE				DRAIN		SUPPLIES AND STOPS		PIPE SIZES			REMARKS	
							MANUFACT. MODEL NO.	SPOUT	HANDLES	CENTERS	TYPE	SIZE			WASTE/VENT	CN	HW		MOUNTING
P-1	WATER CLOSET	FLUSH TANK PRESSURE ASSIST	ZURN	Z5661 HIGH EFFICIENCY	VITREOUS CHINA	ADA ELONGATED (1.0 GPF)		-	-	-	-	-	ZURN Z8608-XL-CR-PC	3"	2"	1/2"	-	FLOOR	PROVIDE ZURN Z5955S-EL-ST5 OPEN FRONT SEAT AND ZURN Z5972-COMB TOILET KIT. PROVIDE CAULKING AROUND BASE.
P-2	LAVATORY	WALL HUNG	ZURN	Z5344	VITREOUS CHINA	ADA COMPLIANT	ZURN Z86500-XL METERING (0.25 GPC)	CENTERSET	1/4" PUSH BUTTONS	4"	GRID	1 1/2"	ZURN Z8604-XL-LR-PC	2"	1 1/2"	1/2"	1/2"	WALL HUNG	MOUNT AT ADA HEIGHT. PROVIDE ZURN Z8743-PC GRID DRAIN WITH TAILPIECE, ZURN Z1024L-PC TRAP PRIMER WITH TRAP ARM AND ZURN Z8946-INT ADA PROTECTOR COMBINATION KIT. PROVIDE ZURN Z43070XL THERMOSTATIC MIXING VALVE.
P-3	MOP SINK	FLOOR MOUNTED	ZURN	Z1996-36	MOLDED HIGH DENSITY COMPOSITE	36" X 24" 10" HIGH	ZURN Z843M1-RC WITH VACUUM BREAKER	THREADED	1/4 TURN LEVER HANDLES	8"	-	-	-	3"	1 1/2"	1/2"	1/2"	FLOOR	PROVIDE ZURN JPI996 HOSE, HOSE BRACKET AND MOP HANGER.
P-4	WATER COOLER	SPLIT LEVEL	OASIS	PACSL	STAINLESS STEEL	ADA COMPLIANT		-	-	-	-	1 1/2"	ZURN Z8604-XL-LR-PC	2"	1 1/2"	1/2"	-	WALL	NON-REFRIGERATED. MOUNT AT ADA HEIGHT. REFER TO ARCH. DRAWINGS FOR H/L/O ORIENTATION. PROVIDE WITH APRON 035174-001. MOUNT TO HI FOUNTAIN.
WH-1	WATER HEATER	ELECTRIC	BRADFORD WHITE	RE10U6	GLASS LINED	LONBOY		-	-	-	-	-	-	-	-	SEE PLAN	SEE PLAN	SEE DETAIL	10 GAL. STORAGE, 15KWH, 120V, 10 GPH REC AT 60F RISE

FIXTURE NOTES:
1. PLUMBING FIXTURES P-1, P-2, P-3, P-4, WH-1 AND ASSOCIATED ACCESSORIES ARE BEING FURNISHED AS PART OF THE "TOILET-IN-A-BOX". FIXTURES SHALL BE INSTALLED BY CONTRACTOR. SEE ARCHITECTURAL COVER SHEET FOR "TOILET-IN-A-BOX" VENDOR INFORMATION.
2. PROVIDE CAULK AROUND MOP SINK, WATER CLOSETS, AND LAVATORIES.

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

- 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.
- PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
- 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.
- 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.
- 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.
- PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
 - PLUMBING FIXTURES AND EQUIPMENT
 - FIRE STOPPING
 - DOMESTIC WATER SYSTEM
 - SANITARY WASTE AND VENT SYSTEM

FIXTURES & EQUIPMENT:

- 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.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.

FIRE STOPPING:

- PROVIDE A U.L. LISTED ASSEMBLY FOR ALL PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.

DOMESTIC WATER PIPING:

- 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.
- 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.
- DOMESTIC WATER PIPING AND JOINTS ABOVE SLAB: PEX PIPING (ASTM F 876) UNLESS LOCAL JURISDICTION REQUIRES OTHER MATERIAL.
- STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- 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.
- DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES SHALL 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.
- 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.
- PROVIDE FULL PORT VALVES IN ALL BRANCH LINES OF THE HOT AND COLD WATER DISTRIBUTION SYSTEM ON 3" AND LARGER CM 4 HW AND AS SHOWN ON PLANS, RISERS, AND SCHEMATIC DETAILS.
- PROVIDE ACCESS DOORS FOR ALL VALVES AND DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE INACCESSIBLE CEILING CONSTRUCTION.
- 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.
- 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 1/4" ASPHALT SATURATED FELT BETWEEN THE PIPE AND MASONRY.
- PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.

SANITARY WASTE AND VENT PIPING:

- 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.
- INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
- SANITARY WASTE AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET-TYPE PIPE FITTINGS (ASTM D 331).
- SLOPE SANITARY WASTE PIPING 2 1/2" AND SMALLER AT 1/4" PER FOOT MIN. SLOPE SANITARY WASTE PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM.
- 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.
- 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.
- PROVIDE CHROME ESCUTCHEON RINGS AT ALL EXPOSED CEILING AND WALL PENETRATIONS.
- COMPLETELY ROD AND FLUSH OUT ALL SANITARY WASTE LINES AFTER BUILDING IS COMPLETED.

PIPING AND EQUIPMENT SUPPORT:

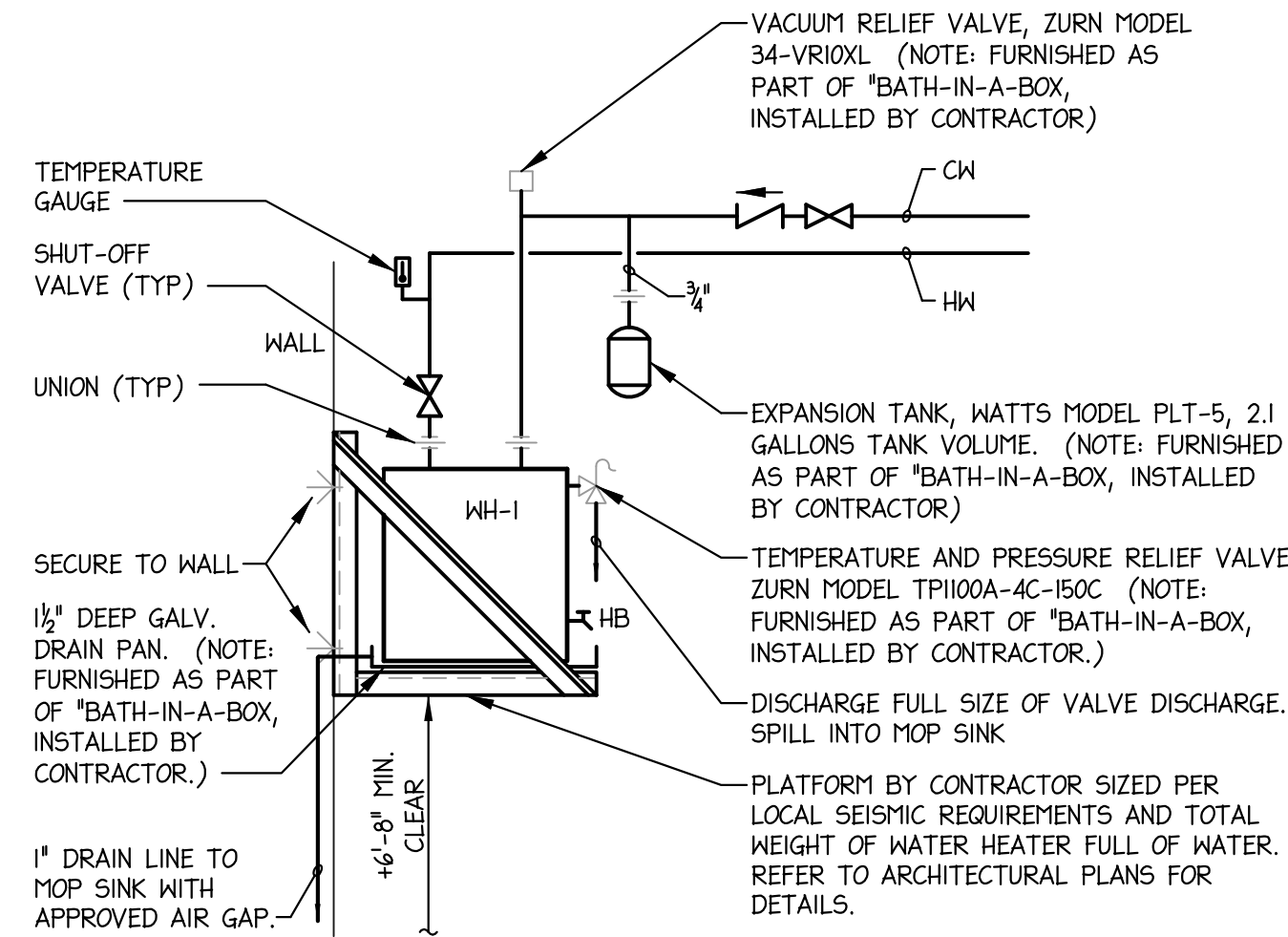
- ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE PER CODE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.

SEISMIC REQUIREMENTS:

- PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

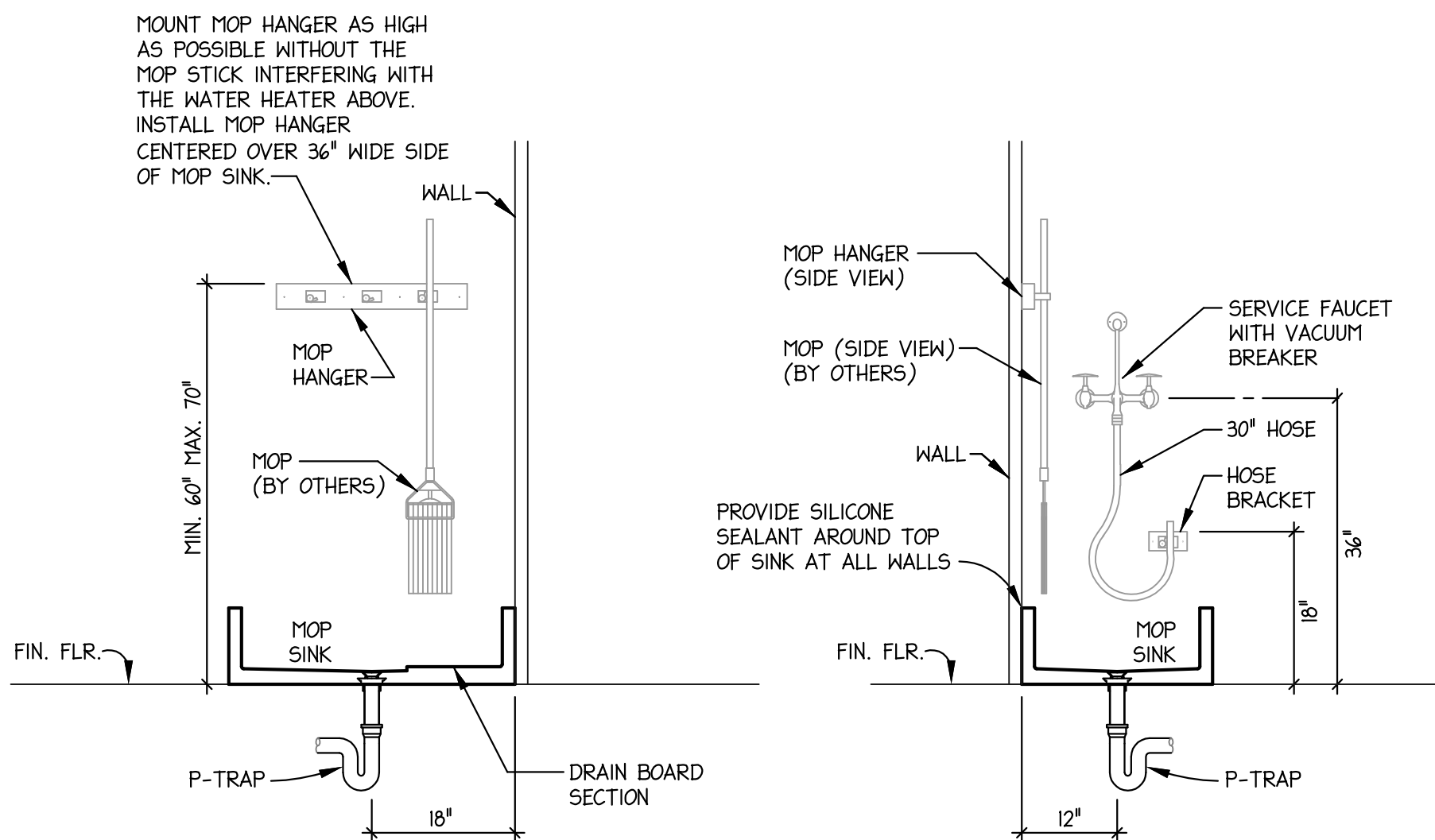
NOTE TO CONTRACTORS

- 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 CN 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.

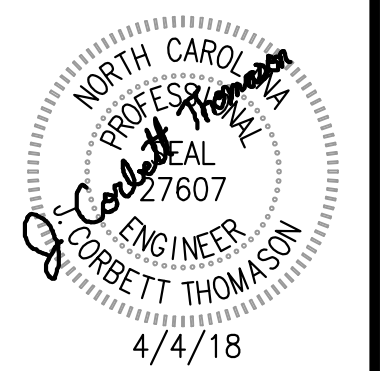
1 WATER HEATER DETAIL
NO SCALE



2 MOP SINK DETAIL
NO SCALE

"TOILET-IN-A-BOX" SEE FIXTURE NOTE 1.

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description	
by	
date	
mark	revisions

18/02/2018	18/04/20	KT	KT	KT
date	project	designed	drawn	checked

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FAMILY DOLLAR STORE
FAMILY DOLLAR STORE
2770 US HWY 64, RUTHERFORD, NC
PLUMBING COVER SHEET

project drawing

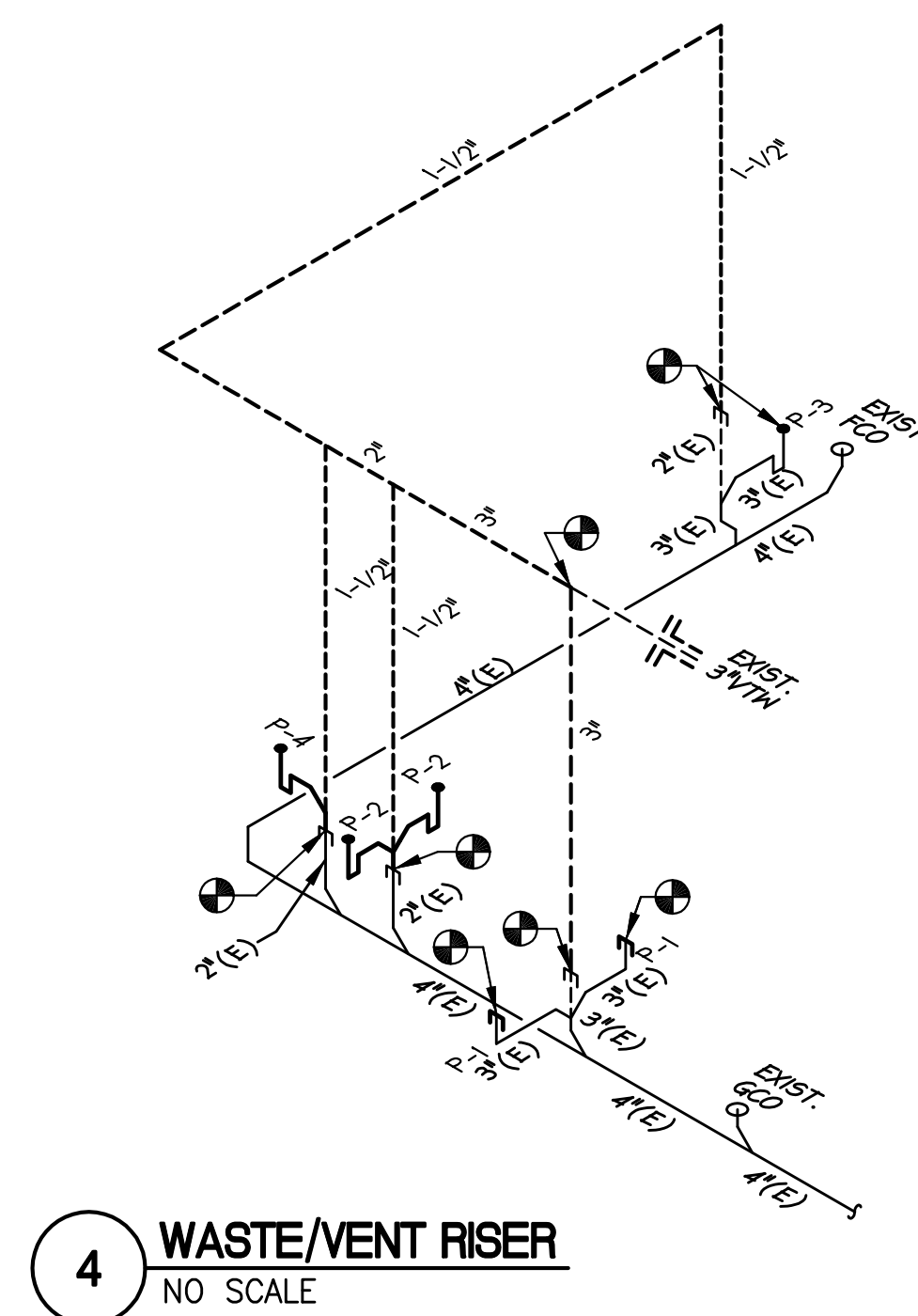
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P-1



- ## PLUMBING LEGEND
- | | |
|---------|-----------------------------------|
| ---- | DOMESTIC COLD WATER PIPING |
| (E)---- | EXIST. DOMESTIC COLD WATER PIPING |
| ---- | DOMESTIC HOT WATER PIPING |
| ---- | VENT PIPING |
| (E)---- | EXIST. VENT PIPING |
| ---- | WASTE (SANITARY SEWER) |
| (E)---- | EXIST. WASTE (SANITARY SEWER) |
| PW | PUMP WASTE (PW) |
| ⌋⌋ | FULL PORT SHUT-OFF VALVE |
| ⌋⌋ | CHECK VALVE |
| ○ | PIPE UP |
| ○ | PIPE DOWN |
| ⊙ | POINT OF CONNECTION TO EXISTING. |

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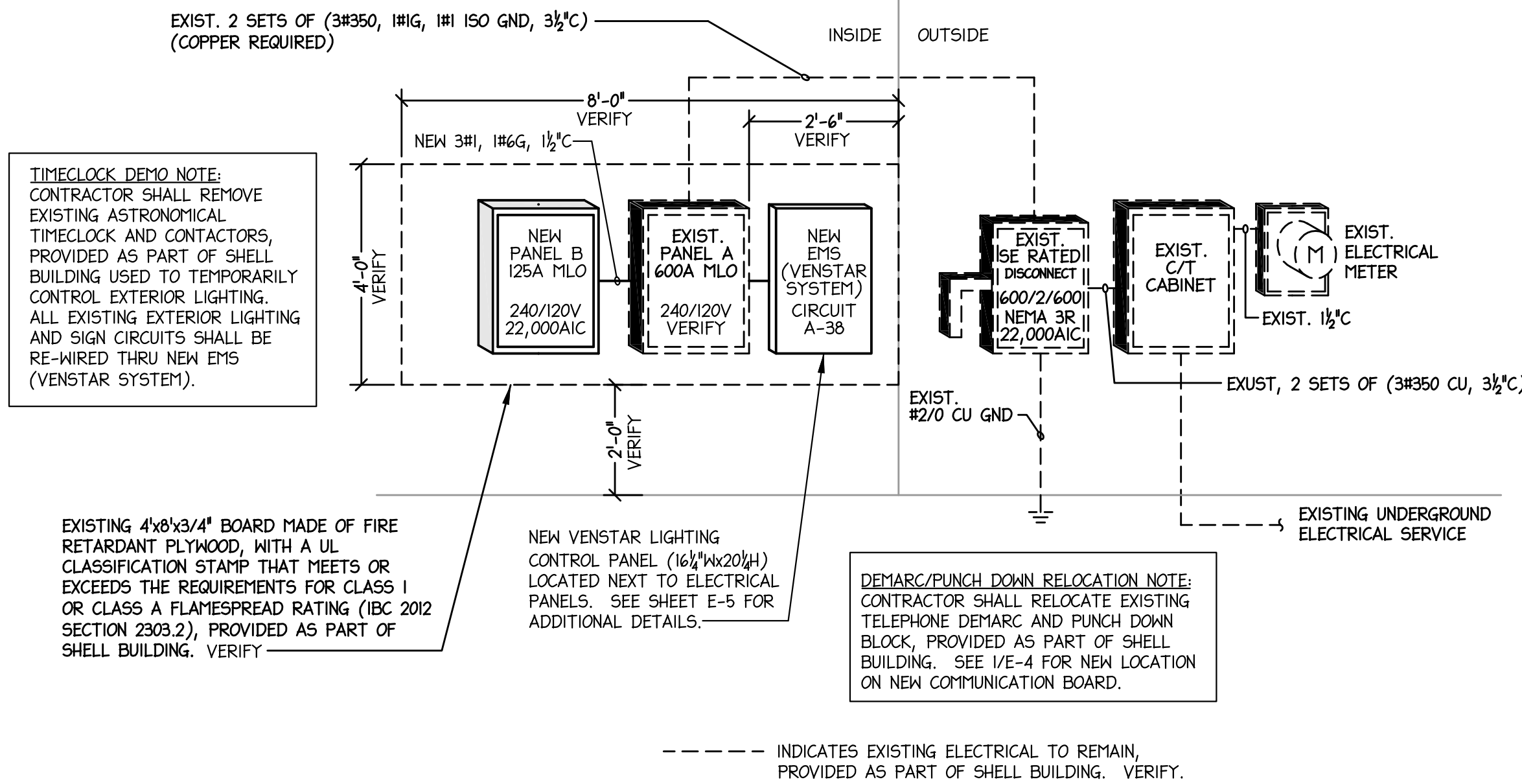
date	FEB 27, 2016
project	1814126
designed	JCT
drawn	JCT
checked	JCT



- ## ENLARGED SANITARY WASTE PLAN KEYED NOTES
- (A)** CONNECT NEW WATER CLOSET TO EXISTING 3" WASTE STUB-UP PROVIDED AS PART OF SHELL BUILDING.
 - (B)** CONNECT NEW 3" VENT TO EXISTING 3" VENT STUB-UP PROVIDED AS PART OF SHELL BUILDING.
 - (C)** CONNECT NEW LAVATORY TO 2" WASTE STUB-UP PROVIDED AS PART OF SHELL BUILDING.
 - (D)** CONNECT NEW DRINKING FOUNTAIN TO 2" WASTE STUB-UP PROVIDED AS PART OF SHELL BUILDING.
 - (E)** CONNECT NEW HOP SINK TO 3" WASTE STUB-UP PROVIDED AS PART OF SHELL BUILDING.
 - (F)** CONNECT NEW 1-1/2" VENT TO 2" VENT STUB-UP PROVIDED AS PART OF SHELL BUILDING.

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. MINIMUM 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 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 (CU/AL) 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, MANUFACTURER'S 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.



1 SINGLE PHASE POWER RISER DIAGRAM (600A SERVICE) DIAGRAMMATIC ONLY

EXISTING 600A PANEL (SINGLE PHASE)

NON-SERVICE ENTRANCE RATED				PANEL A		TYPE		CLASS: 22KAIC FULLY RATED				
240/120 VOLTS, 1Ø, 3Ø				600 AMP MAIN LUGS ONLY		NEUTRAL: IN/ISO/ISOLATED						
KVA CONN.		REMARKS OR EQUIPMENT SERVED										KVA CONN.
		WIRE SIZE										
		TRIP AMPS CIRCUIT NO.										
8.4	PANEL B	I	125	1	2	40	8	5 DOOR FREEZER (ZZ)	5.4	HACR, BL		
EX1 HACR	9.0	AC-1	EX	60	5	6	40	8	4 DOOR FREEZER (ZZ)	4.7	HACR, BL	
EX1 HACR	9.0	AC-2	EX	60	9	10	16	10	3 DOOR COOLER (ZZ)	2.0	HACR, BL	
EX1 HACR	9.0	AC-3	EX	60	13	14	16	10	3 DOOR COOLER (ZZ)	2.0	HACR, BL	
EX1 HACR	9.0	AC-4	EX	60	17	18	16	10	3 DOOR COOLER (ZZ)	2.0	HACR, BL	
EX1 HACR	8.1	AC-5	EX	50	21	22	16	10	3 DOOR COOLER (ZZ)	2.0	HACR, BL	
EX1	0.2	DUCT DETECTORS	EX	20	25	26	20	EX	HOT BOX	1.0	BL EX1	
EX1	0.3	RECP-T - AC UNITS	EX	20	27	28	16	10	3 DOOR COOLER (ZZ)	2.0	HACR, BL	
					29	30			4 WIRE(2H,N,G)			
					31	32	20	EX	RECP-T - IRRIGATION	0.2	EX1	
					33	34	20	EX	RECP-T - EXT.	0.2	EX1	
BL	0.3	LTS - NL/EXIT/EMERG	12	20	35	36	20	EX	RECP-T - EXT.	0.2	EX1	
	0.1	LTS - RRS / OFFICE	12	20	37	38	20	12	VENSTAR	0.2	BL	
WORK	1.3	LTS - SALES / INVERTER	12	20	39	40	20	-	SPARE	-		
WORK	-	SPARE	-	20	41	42	20	12	BUILDING SIGN	1.2	5/5	
WORK	-	SPARE	-	20	43	44	20	EX	PYLON SIGN	0.5	5/5 EX2	
WORK	0.1	LTS - SUPPORT	12	20	45	46	20	EX	EXT. LIGHTS - BLDG.	0.9	5/5 EX2	
SALES	0.6	LTS - SALES AREA	12	20	47	48	20	EX	EXT. LIGHTS - POLE LTS	0.3	5/5 EX2	
SALES	1.0	LTS - SALES AREA	12	20	49	50	20	EX	EXT. LIGHTS - POLE LTS	0.3	5/5 EX2	
SALES	1.0	LTS - SALES AREA	12	20	51	52	20	-	SPARE	-		
SALES	-	SPARE	-	20	53	54	20	-	SPARE	-		
58.5 SUBTOTAL				TOTAL KVA				83.6		SUBTOTAL		25.1

BL - PROVIDE BREAKER LOCKING DEVICE
HACR - PROVIDE HACR TYPE BREAKER FOR HVAC/REFRIGERATION EQUIPMENT (WORK) - EMPLOYEE WORK LIGHTING (CIRCUIT VIA VENSTAR SYSTEM CONTACTOR 1)
(SALES) - CUSTOMER LIGHTING (CIRCUIT VIA VENSTAR SYSTEM CONTACTORS 2,3 & 4)
(5/5) - SIGN & SITE LIGHTING (CIRCUIT VIA VENSTAR SYSTEM CONTACTORS 5 & 6)
(EX1) - EXISTING CIRCUIT PROVIDED AS PART OF SHELL BUILDING. REWIRE THRU NEW EMS (VENSTAR SYSTEM).
(EX2) - EXISTING EXTERIOR LIGHTING CIRCUIT PROVIDED AS PART OF SHELL BUILDING. REWIRE THRU NEW EMS (VENSTAR SYSTEM).

CONNECTED LOAD SUMMARY (PANEL A)			
LOAD	KVA CONN.	D.F.	KVA NET
LIGHTING	7.6	1.25	9.5
HVAC (LARGEST MTR)	4.0	1.25	11.3
HVAC (REPAIRING)	35.1	1.0	35.1
WATER HEATER	1.5	1.25	1.9
RECEPTACLES	6.9	NEC	6.9
OTHER	5.4	1.0	5.4
COOLERS/FREEZERS	20.1	1.0	20.1
TOTAL	83.6		88.2
LOAD CALCULATION			
88.2 KVA / 0.24 KV = 367.5 AMPS			

NEW PANEL (SINGLE PHASE)

NON-SERVICE ENTRANCE RATED			PANEL B		TYPE		CLASS: 22KAIC FULLY RATED				
240/120 VOLTS, 1Ø, 3Ø			125 AMP MAIN LUGS ONLY		NEUTRAL: INISO/ISOLATED						
KVA CONN.	REMARKS OR EQUIPMENT SERVED										KVA CONN.
			WIRE SIZE		TRIP AMPS		CIRCUIT NO.				
0.4	BELTED CHECKOUT (DIRTY#1)	12	20	1	2	20	12		BELTED CHECKOUT (IG#1)	0.4	BL
0.4	CHECKOUT STATION (DIRTY#2)	12	20	3	4	20	12		CHECKOUT STATION (IG#2)	0.4	BL
0.4	CHECKOUT STATION (DIRTY#3)	12	20	5	6	20	12		CHECKOUT STATION (IG#3)	0.4	BL
0.4	CHECKOUT STATION (DIRTY#4)	12	20	7	8	20	12		RECEPT - EAS (IG)	0.2	BL
0.4	BELTED CHECKOUT (DIRTY#5)	12	20	9	10	20	12		RECEPT - AT/VAWP (IG)	0.2	BL
0.2	RECEPT - MONITOR	12	20	11	12	20	12		COMMUNICATION BOARD (IG)	0.2	BL
0.2	RECEPT - BREAK AREA	12	20	13	14	20	12		COMMUNICATION BOARD (IG)	0.2	BL
0.2	RECEPT - BREAK AREA	12	20	15	16	20	12		RECEPT - OFFICE (IG)	0.4	BL
0.2	RECEPT - SUPPORT	12	20	17	18	20	12		RECEPT - DVR (IG)	0.2	BL
-	SPARE	-	20	19	20	20	-		SPARE	-	
-	SPARE	-	20	21	22	20	-		SPARE	-	
-	SPARE	-	20	23	24	20	-		SPARE	-	
-	SPARE	-	20	25	26	20	-		SPARE	-	
-	SPARE	-	20	27	28	20	-		SPARE	-	
-	SPARE	-	20	29	30	20	-		SPARE	-	
-	SPARE	-	20	31	32	20	-		SPARE	-	
-	SPARE	-	20	33	34	20	-		SPARE	-	
-	SPARE	-	20	35	36	20	-		SPARE	-	
1.0	HAND DRYER	12	15	37	38	20	-		SPARE	-	
1.0	HAND DRYER	12	15	39	40	20	-		SPARE	-	
1.5	WATER HEATER	12	20	41	42	20	-		SPARE	-	
6.3	SUBTOTAL								TOTAL KVA	8.9	
									SUBTOTAL	2.6	

DOOR IN DOOR PANEL CONSTRUCTION WITH COPPER BUSSES
BL - PROVIDE BREAKER LOCKING DEVICE
GFI - PROVIDE GFI BREAKER

CONNECTED LOAD SUMMARY (PANEL B)			
LOAD	KVA CONN.	D.F.	KVA NET
WATER HEATER	1.5	1.25	1.9
RECEPTACLES	5.4	NEC	5.4
OTHER	2.0	1.0	2.0
TOTAL	8.9		9.3
LOAD CALCULATION			
9.3 KVA / 0.24 KV = 38.8 AMPS			

NOTE TO CONTRACTORS

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

ENGINEER OF RECORD:
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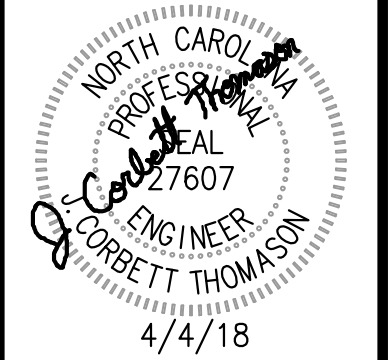
18/02/2018
18/04/20
JCT
JCT
JCT
date
project
designed
drawn
checked

RRMM
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1317 Executive Blvd, Suite 200
Chesapeake, VA 23320
(757)822-2828 / fax (757)822-6883

FAMILY DOLLAR STORE
FAMILY DOLLAR STORE
2770 US HWY 64 - RUTHERFORD, NJ
ELECTRICAL COVER SHEET

project
drawing

sheet



description
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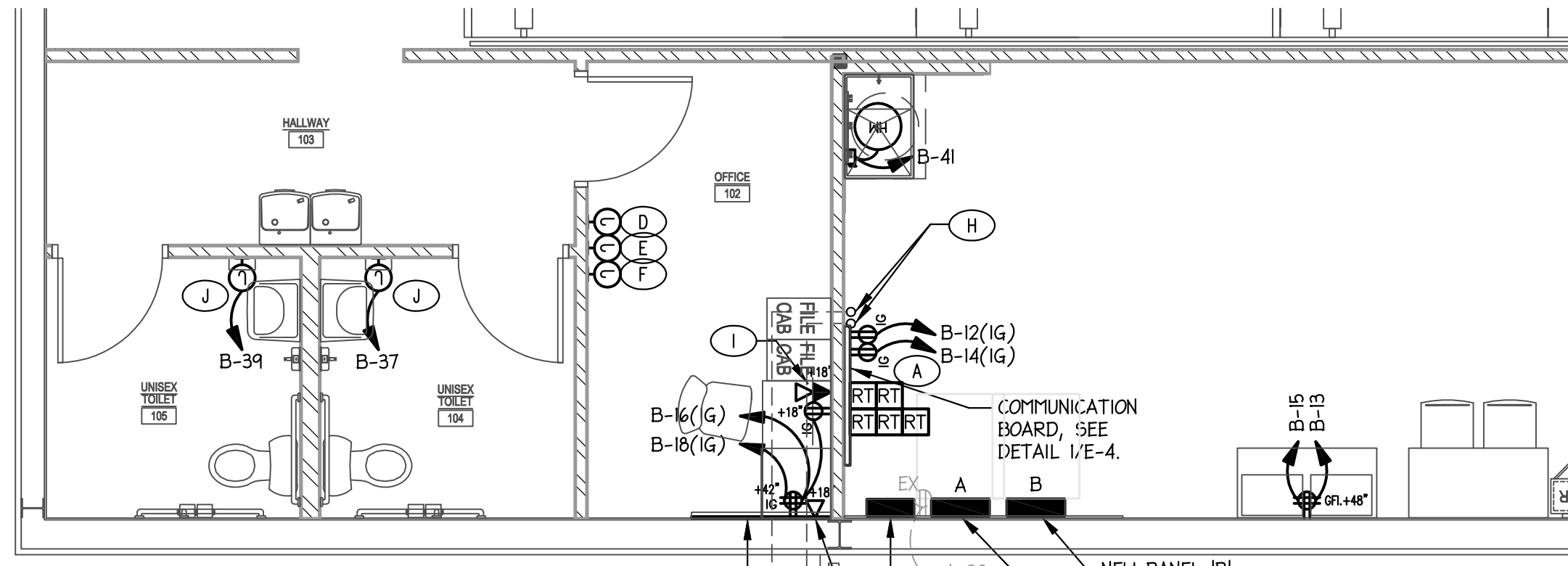
18/07/2018	18/04/2018	ACT	ACT	ACT
date	project	designed	drawn	checked



project	drawing

TAGGED NOTES (ENLARGED OFFICE/RR POWER PLAN):

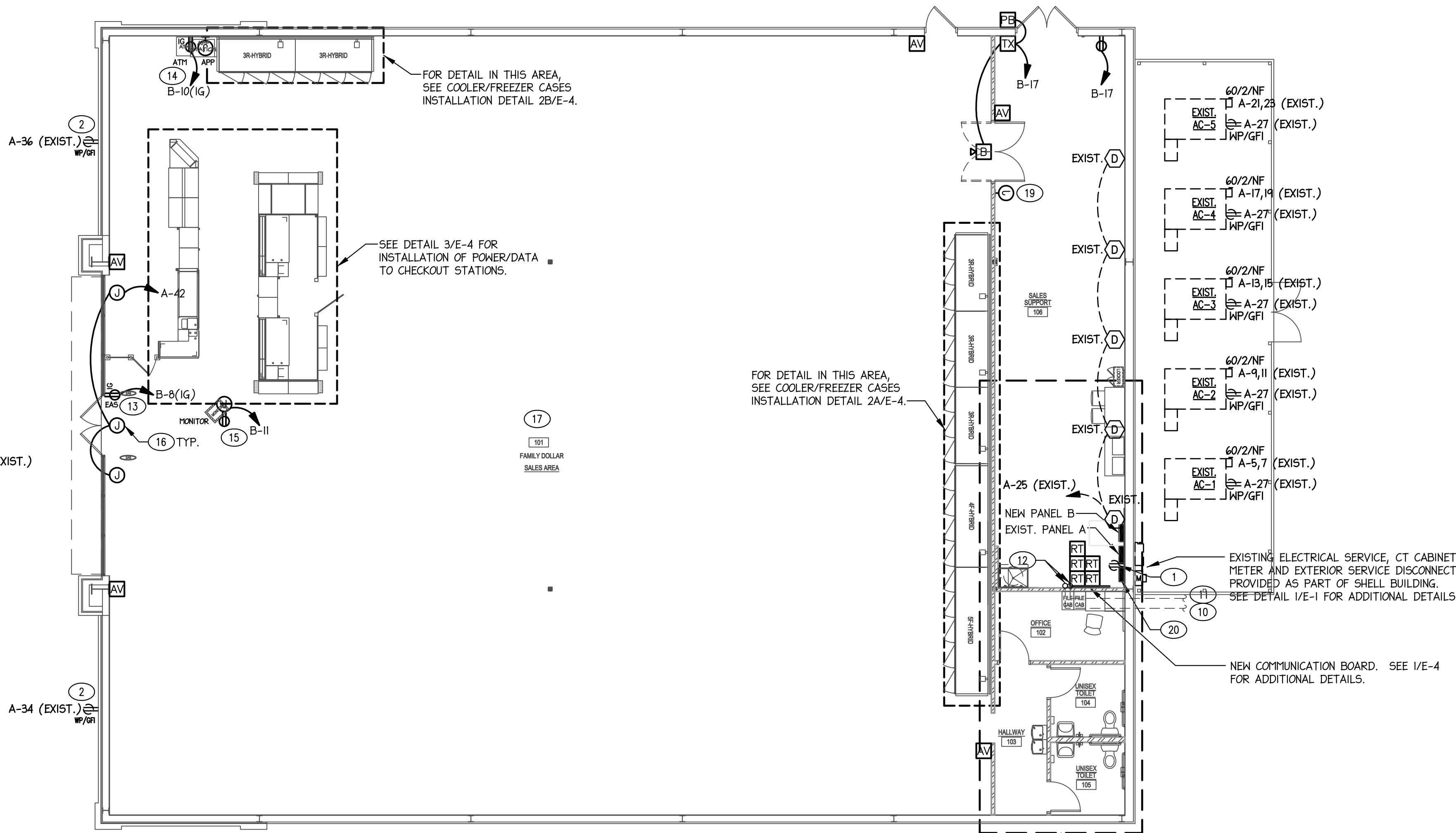
- PROVIDE (2) TWO DEDICATED ISOLATED GROUND RECEPTACLES WITH ISOLATED GROUNDING CONDUCTOR BACK TO SERVICE GROUND. RECEPTACLES SHALL BE SURFACE MOUNTED AT COMMUNICATION BOARD. SEE COMMUNICATION BOARD DETAIL I/E-4 FOR MOUNTING LOCATIONS AND INSTRUCTIONS ON USING STENCIL FOR LOCATING RECEPTACLES. RECEPTACLES SHALL BE "ORANGE" WITH WHITE COVER PLATES.
- ENERGY MANAGEMENT SYSTEM (EMS). EMS SHALL BE SUPPLIED BY FAMILY DOLLAR AND INSTALLED BY CONTRACTOR. SEE SHEET E-5 FOR INSTALLATION DETAILS.
- DVR BOARD: PROVIDE 4'x4' 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). MOUNT DVR BOARD WITH BRACING AND FASTENERS RATED TO SUPPORT UP TO 250 LBS OF WEIGHT. MOUNT BOTTOM OF DVR BOARD 4'-0" A.F.F. WITH EDGE OF DVR BOARD TIGHT AGAINST ADJACENT WALL. PROVIDE ISOLATED GROUND QUAD RECEPTACLE WITH ISOLATED GROUNDING CONDUCTORS BACK TO SERVICE GROUND. RECEPTACLES SHALL BE MOUNTED AT 3'-6" A.F.F. EACH SIDE OF QUAD SHALL BE A DEDICATED CIRCUIT (DO NOT SHARE A NEUTRAL. SEPARATE NEUTRALS ARE REQUIRED). RECEPTACLES SHALL BE "ORANGE" WITH WHITE COVER PLATES.
- PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO OFFICE LIGHT SWITCH FOR EMS OPEN/CLOSE PUSHBUTTON. CONTRACTOR SHALL MOUNT JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF. SEE E-5 FOR EMS INSTALLATION DETAILS.
- PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO EMS OPEN/CLOSE PUSHBUTTON FOR OFFICE PAGING SYSTEM SPEAKER VOLUME CONTROL. CONTRACTOR SHALL MOUNT JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF. PAGING SYSTEM SHALL BE VENDOR SUPPLIED AND VENDOR INSTALLED.
- PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO SPEAKER VOLUME CONTROL FOR PAGING PHONE. CONTRACTOR SHALL MOUNT JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF. PAGING SYSTEM SHALL BE VENDOR SUPPLIED AND VENDOR INSTALLED.
- EXISTING RECEPTACLE MOUNTED AT 18" FOR POWER TO IRRIGATION CONTROLLER, PROVIDED AS PART OF SHELL BUILDING.
- EXISTING TELEPHONE AND DATA CONDUIT STUB-UPS, PROVIDED AS PART OF SHELL BUILDING. SEE DETAIL I/E-4 FOR ADDITIONAL DETAILS.
- PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO RECEPTACLE FOR TELEPHONE/DATA CONNECTION. CONTRACTOR SHALL MOUNT JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF. TELEPHONE/DATA CABLING, DEVICES AND COVERPLATE SHALL BE VENDOR SUPPLIED AND INSTALLED.
- PROVIDE DEDICATED CIRCUIT FOR HAND DRYER. CIRCUIT SHALL BE TERMINATED TO JUNCTION BOX IN WALL. CONFIRM MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL ENLARGED RESTROOM PLAN. CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO HAND DRYER.



2 ENLARGED OFFICE/RR POWER PLAN
1/4"=1'-0"

ELECTRICAL POWER SYMBOL LEGEND

	ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
	JUNCTION BOX WALL OR CEILING MOUNTED.
	SINGLE POLE, 120V, 20A MOTOR RATED TOGGLE SWITCH.
	DUPLEX RECEPTACLE, 30 AMP, 120 VOLT, 18" A.F.F. TO CENTER, UNLESS OTHERWISE SPECIFIED.
	"GFI" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE.
	"WP" INDICATES WEATHERPROOF WITH "IN-USE" COVER.
	"IG" INDICATES ISOLATED GROUND RECEPTACLE WITH ISOLATED GROUND WIRE AND DEDICATED NEUTRAL. HUBBELL #IG-5622
	QUADRUPLUX 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 #640-W WITH EDWARDS MODEL #147-1 MOUNTING PLATE. SEE WIRING DIAGRAM 5/E-4 FOR DETAILS.
	DOOR CHIME FOR DOORBELL SYSTEM MOUNTED ABOVE CEILING. CONNECT TO DOOR CHIME TRANSFORMER. EDWARDS MODEL #338-GS (24VAC, 12VA). SEE WIRING DIAGRAM 5/E-4 FOR DETAILS.
	LOW VOLTAGE STEP DOWN TRANSFORMER FOR DOORBELL SYSTEM. EDWARDS MODEL #92 PROVIDE WITH EDWARDS MODEL #943 TRANSFORMER MOUNTING PLATE. MOUNT 9'-0" AFF. IN SUPPORT ROOM. SEE WIRING DIAGRAM 5/E-4 FOR DETAILS.
	TELEPHONE OUTLET, 18" A.F.F. TO CENTER OR AT HEIGHT INDICATED ON PLANS. PROVIDE SINGLE GANG DATA BOX WITH 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE LAY-IN CEILING OR TO 12' A.F.F. IN AREAS WITH NO CEILING. CAT5E CABLING AND COVERPLATE SHALL BE INSTALLED BY FD'S LOW VOLTAGE VENDOR.
	DATA OUTLET, 18" A.F.F. TO CENTER OR AT HEIGHT INDICATED ON PLANS. PROVIDE SINGLE GANG DATA BOX WITH 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE LAY-IN CEILING OR TO 12' A.F.F. IN AREAS WITH NO CEILING. CAT5E CABLING AND COVERPLATE SHALL BE INSTALLED BY FD'S LOW VOLTAGE VENDOR.
	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.
	"NFI" 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 4/E-4 FOR DETAILS.
	DUCT SMOKE DETECTOR AUDIO/VISUAL DEVICE MOUNTED 80" AFF TO BOTTOM OF DEVICE. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 4/E-4 FOR DETAILS.
	DUCT SMOKE DETECTOR REMOTE TEST STATION MOUNTED AT COMMUNICATION BOARD. SEE DETAIL I/E-4 FOR EXACT LOCATION. COORDINATE INSTALLATION RESPONSIBILITIES WITH ALL CONTRACTORS. SEE WIRING DIAGRAM 4/E-4 FOR DETAILS.



1 ELECTRICAL POWER PLAN
1/8"=1'-0"

TAGGED NOTES (POWER PLAN):

- EXISTING RECEPTACLE MOUNTED AT 18" FOR POWER TO IRRIGATION CONTROLLER, PROVIDED AS PART OF SHELL BUILDING.
- EXISTING DEDICATED 120V, 20A, GFI, WEATHERPROOF EXTERIOR RECEPTACLE WITH "IN-USE" COVERS, RECESSED IN WALL WITH FACE FLUSH WITH EXTERIOR WALL, PROVIDED AS PART OF SHELL BUILDING.
- ~~ONLY FAMILY DOLLAR STORES LOCATED IN THE FOLLOWING STATES SHALL BE PROVIDED WITH ELECTRICAL CONNECTIONS FOR WATER VENDING MACHINE TO BE INSTALLED BY FD VENDOR: 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 RAMP. FIELD VERIFY EXACT LOCATION WITH FAMILY DOLLAR STORE CONSTRUCTION REPRESENTATIVE PRIOR TO INSTALLATION.~~
- ~~FOR WARM WEATHER INSTALLATION PROVIDE TWO (2) DEDICATED 120V, 20A CIRCUITS TERMINATED TO GFI RECEPTACLES MOUNTED 4'-0" A.F.F. FOR FUTURE WATER VENDING MACHINE AS SHOWN. EXTERIOR RECEPTACLES SHALL BE GFI, WEATHERPROOF AND RECESSED IN WALL WITH FACE FLUSH WITH WALL. PROVIDE WITH "IN-USE" COVERS.~~
- ~~FOR COLD WEATHER INSTALLATION PROVIDE TWO (2) DEDICATED 120V, 20A CIRCUITS TO J-BOX ON INTERIOR FOR FUTURE 19"x19"x24" INTERIOR MOUNTED UTILITY BOX (PROVIDED BY WATER VENDING MACHINE MANUFACTURER) MOUNTED AT MINIMUM 7'-6" 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 IS FOR NORMAL WATER VENDING MACHINE POWER AND THE SECOND CIRCUIT IS FOR "COLD WEATHER" MODEL CABINET HEATER.~~
- EXISTING WEATHERPROOF JUNCTION BOX FOR PYLON SIGN, PROVIDED AS PART OF SHELL BUILDING. CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO PYLON SIGN AS REQUIRED.
- ~~CONTRACTOR SHALL PROVIDE 120V ELECTRICAL CONNECTION TO SITE LIGHT POLES. REFER TO NATIONAL ENERGY AND LIGHT (NEL) PHOTOMETRIC PLAN FOR SITE POLE HEIGHT, LOCATION AND SPECIFICATIONS. CONTRACTOR SHALL RUN 3/10 WIRE IN 1" CONDUIT UNDERGROUND TO SITE POLE LIGHT LOCATIONS. SITE LIGHTING CIRCUIT SHALL BE CIRCUITED VIA TIMELOCK. PROVIDE ADDITIONAL 6'-0" OF SLACK ABOVE ELECTRICAL PANEL.~~
- EXISTING HOT BOX, PROVIDED AS PART OF SHELL BUILDING.
- 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.
- FIELD VERIFY EXISTING 2" EMPTY CONDUIT, SCHEDULE 40 PVC, WITH NYLON PULLWIRE 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.
- EXISTING TELEPHONE AND DATA CONDUIT STUB-UPS, PROVIDED AS PART OF SHELL BUILDING. SEE DETAIL I/E-4 FOR ADDITIONAL DETAILS.

- PROVIDE DEDICATED ISOLATED GROUND CIRCUIT TO FLUSH MOUNTED IG RECEPTACLE IN WALL 11'-6" AFF. FOR EAS POWER SUPPLY. RECEPTACLE SHALL BE MOUNTED DIRECTLY ABOVE DOOR MULLION CLOSEST TO CHECKOUT STATIONS. IG RECEPTACLE SHALL BE "ORANGE" WITH WHITE COVER PLATE. CONFIRM SIDE TO MOUNT RECEPTACLE WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION. EAS SHALL BE FURNISHED AND INSTALLED BY EAS VENDOR.
- PROVIDE DEDICATED ISOLATED GROUND CIRCUIT TO FLUSH MOUNTED IG RECEPTACLE IN WALL 18" AFF. FOR APPLICATION STATION AND ATM. IN STORES WHERE APPLICATION STATION AND ATM ARE GREATER THAN 4' APART, IG RECEPTACLES SHALL BE PROVIDED FOR EACH. IG RECEPTACLES SHALL BE "ORANGE" WITH WHITE COVER PLATE. PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO APP STATION RECEPTACLE FOR DATA CONNECTION. CONTRACTOR SHALL MOUNT JUNCTION BOX IN WALL AT 18" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 13'-0" AFF. DATA CABLING SHALL BE PROVIDED BY FD LOW VOLTAGE VENDOR. CONFIRM RECEPTACLE LOCATION(S) WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
- PROVIDE CIRCUIT TO FLUSH MOUNTED RECEPTACLE IN CEILING FOR SECURITY MONITOR. CONFIRM RECEPTACLE LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
- FURNISH AND INSTALL CONDUIT AND WIRING FOR EXTERIOR BUILDING SIGNS. CIRCUIT SHALL BE TERMINATED AT A JUNCTION BOX(ES) LOCATED MINIMUM 13'-0" AFF. BUILDING SIGN CIRCUIT SHALL BE CIRCUITED VIA EMS. COORDINATE ACTUAL NUMBER OF BUILDING MOUNTED SIGNS WITH ARCHITECTURAL ELEVATIONS AND FD'S PROJECT MANAGER PRIOR TO CONSTRUCTION. COORDINATE REQUIRED JUNCTION BOX QUANTITIES AND LOCATION WITH ARCHITECTURAL ELEVATIONS AND SIGN SUPPLIER PRIOR TO ELECTRICAL ROUGH-IN.
- MC CABLE IS ALLOWED AS BUILDING STANDARD WHERE LOCAL CODE JURISDICTION WILL ALLOW. ALL MC CABLE SHALL BE RUN OVERHEAD, AND IN A NEAT AND ORGANIZED FASHION. WHERE CODE DOES NOT ALLOW MC CABLE, EMT SHALL BE USED. ALL EXPOSED CABLE AND CONDUIT SHALL BE RUN TIGHT TO CEILING CONSTRUCTION AND CONCEALED FROM VIEW WHEREVER POSSIBLE.
- ~~PROVIDE POWER FOR AUTOMATIC DOORS ONLY IF BEING INSTALLED FOR THIS SPECIFIC LOCATION. COORDINATE WITH ARCHITECTURAL TO DETERMINE IF AUTOMATIC DOORS ARE REQUIRED TO BE INSTALLED FOR THIS SPECIFIC LOCATION. COORDINATE WITH DOOR SUPPLIER TO PROVIDE 120V CONNECTION FOR AUTOMATIC DOOR. PROVIDE ADDITIONAL JUNCTION BOX AND CONDUIT FOR ALARM WIRING AS DIRECTED BY FAMILY DOLLAR PROJECT MANAGER AND DOOR SUPPLIER. PROVIDE CONNECTIONS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.~~
- PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO RECEIVING DOOR FOR PAGING PHONE. CONTRACTOR SHALL MOUNT JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 13'-0" AFF. PAGING SYSTEM SHALL VENDOR SUPPLIED AND VENDOR INSTALLED.
- ENERGY MANAGEMENT SYSTEM (EMS). EMS SHALL BE SUPPLIED BY FAMILY DOLLAR AND INSTALLED BY CONTRACTOR. SEE SHEET E-5 FOR INSTALLATION DETAILS.
- PROVIDE FLUSH MOUNTED IG RECEPTACLE IN WALL 18" AFF. FOR ARMOR SAFE. IG RECEPTACLE SHALL BE CONNECTED TO DEDICATED ISOLATED GROUND CIRCUIT FOR APPLICATION STATION AND ATM. IG RECEPTACLE SHALL BE "ORANGE" WITH WHITE COVER PLATE. PROVIDE SINGLE GANG JUNCTION BOX MOUNTED NEXT TO ARMOR SAFE RECEPTACLE FOR DATA CONNECTION. CONTRACTOR SHALL MOUNT JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 13'-0" AFF. DATA CABLING SHALL BE PROVIDED BY FD LOW VOLTAGE VENDOR. CONFIRM RECEPTACLE LOCATION WITH FD SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.

A-26 (EXIST.)
NOT BOX
EXIST.

EXISTING. PROVIDED AS
PART OF SHELL BUILDING.
TAG NOTE NOT SHOWN ON
PLANS.

NOT USED THIS PROJECT.

NOT USED THIS PROJECT.



1. CONTRACTOR SHALL INSTALL ADDITIONAL WIRE TIE SUPPORTS FROM THE CEILING GRID TO THE STRUCTURE ABOVE FOR SUPPORT OF THE LIGHT FIXTURES CLIPPED ON THE GRID.

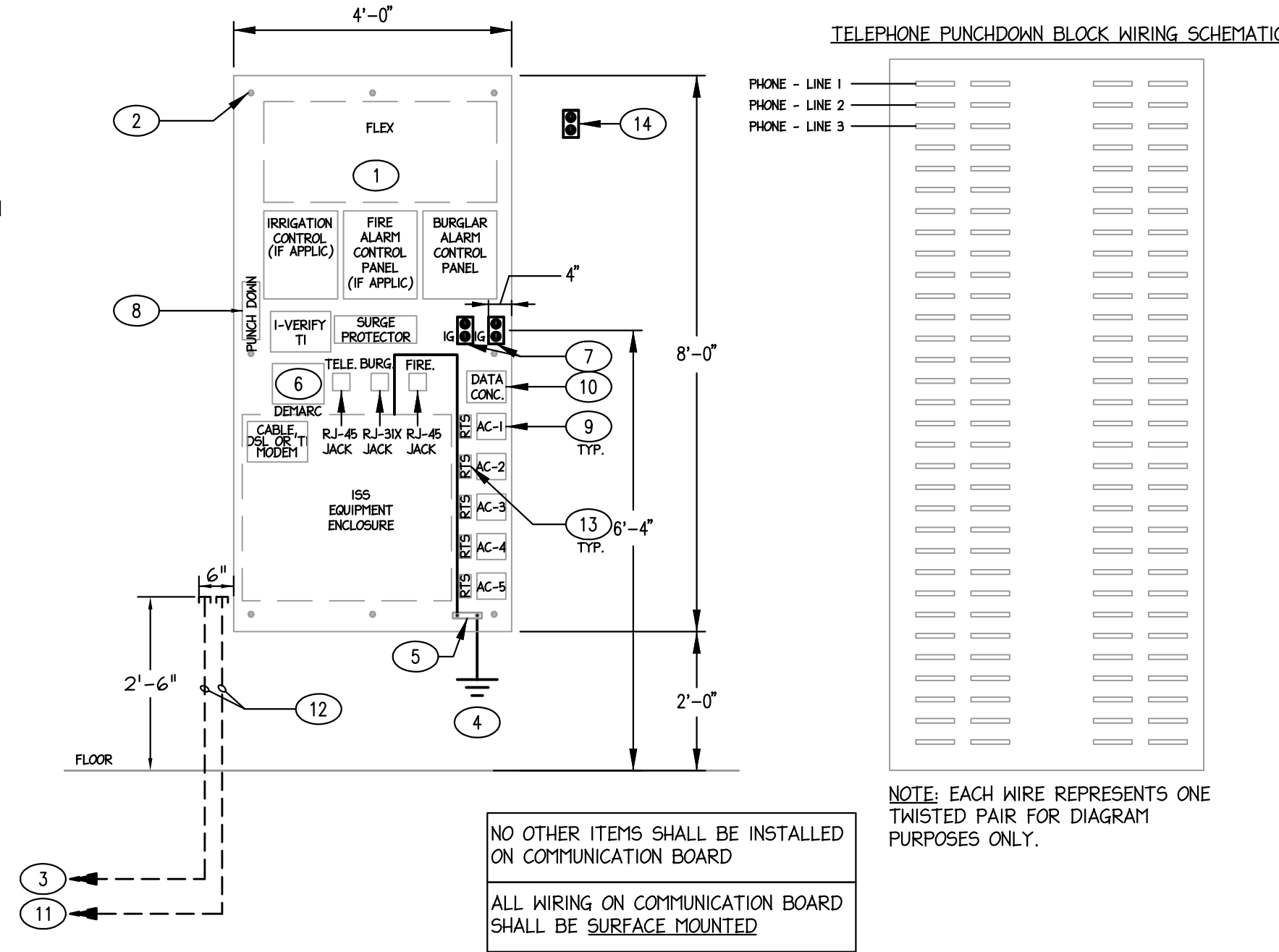


NOTES:

1. ALL LAMPS SHALL BE PROVIDED WITH LIGHT FIXTURES.
2. CONTRACTOR SHALL COORDINATE VOLTAGE 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 ALL ELECTRICAL, PLUMBING, AND MECHANICAL PLANS.
6. LIGHT FIXTURES IN SALES AREA SHALL BE SURFACE MOUNTED TO BOTTOM OF LAY-IN CEILING AT 12'-0". LIGHT FIXTURES IN THE SALES SUPPORT AREA SHALL BE SUSPENDED FROM STRUCTURE USING CADDY SPEED LIGHT. PENTAIR CADDY SPEED LIGHT UNIVERSAL SUPPORT HARDWARE IS REQUIRED FOR DEVELOPING AND INSTALLING THE FITTING. CADDY SPEED LIGHT SUPPORT SHALL BE SURF MOUNTED WITH LIGHT FIXTURE. FOR SALES SUPPORT AREA, SUSPEND BOTTOM OF LIGHT FIXTURE TO 10'-0" OFF. FOR RESTROOMS, OFFICE AND HALLS, SALES SHALL BE SURF MOUNTED TO BOTTOM OF CEILING. FOR LIGHT FIXTURES SURFACE MOUNTED TO LAY-IN CEILING, ATTACH LIGHT FIXTURE TO T-BAR PER NEC 400-36.

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 TO 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.



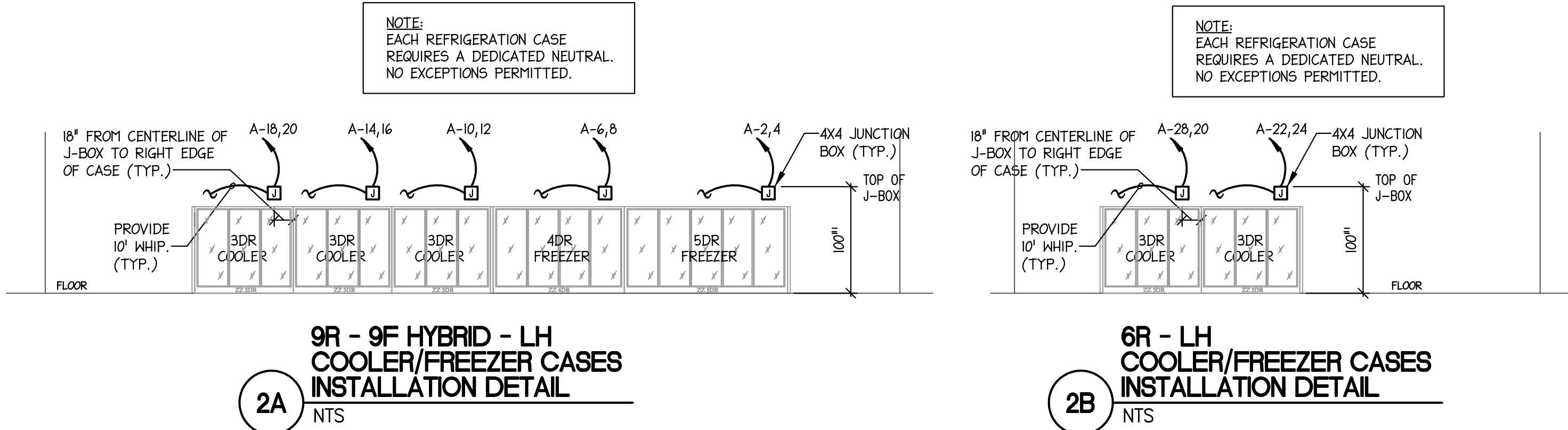
1 COMMUNICATION BOARD DIAGRAM
NTS

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.

COMMUNICATION BOARD KEYED NOTES:

- CONTRACTOR SHALL PROVIDE 4x8x3/4" COMMUNICATION BOARD MADE OF FIRE RETARDANT PLYWOOD, WITH A UL CLASSIFICATION STAMP THAT MEETS OR EXCEEDS THE REQUIREMENTS FOR CLASS 1 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 (DEMARC) 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.
- VENSTAR HVAC THERMOSTAT LOCATION. CONTRACTOR SHALL INSTALL THERMOSTATS FOR HVAC SYSTEMS. (FIELD VERIFY QUANTITY WITH MECHANICAL PLANS). SEE 6/E-5. LOCATIONS FOR ADDITIONAL THERMOSTATS SHOWN IF APPLICABLE.
- VENSTAR DATA CONCENTRATOR LOCATION. CONTRACTOR SHALL INSTALL VENSTAR DATA CONCENTRATOR. SEE 6/E-5.
- FIELD VERIFY EXISTING 2" EMPTY CONDUIT, SCHEDULE 40 PVC, WITH NYLON PULLWIRE 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.



2A
NTS

9R - 9F HYBRID - LH
COOLER/FREEZER CASES
INSTALLATION DETAIL

COOLER/FREEZER CASES NOTES:

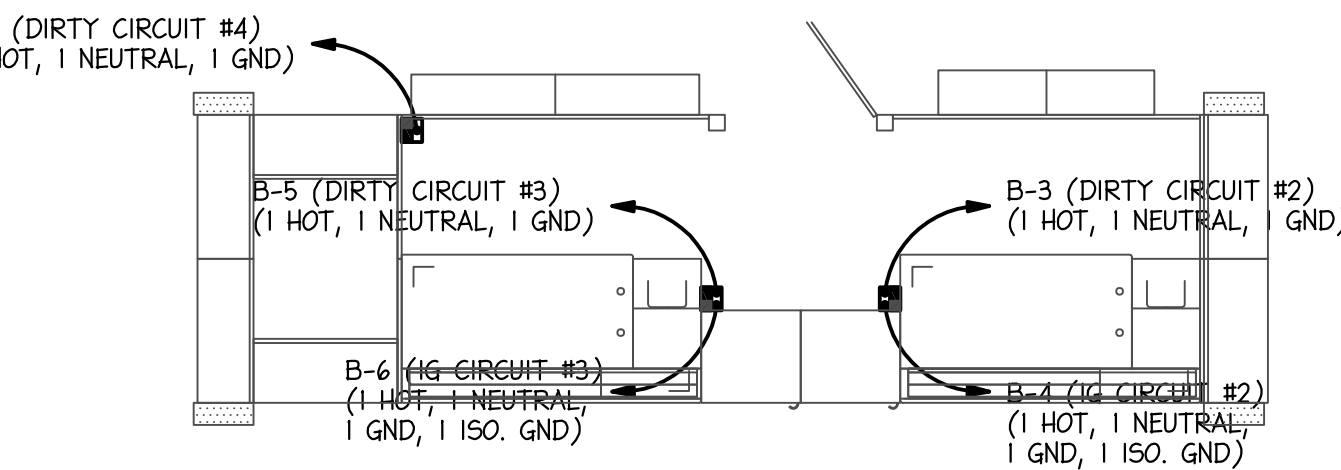
- COOLERS/FREEZERS SHALL BE VENDOR SUPPLIED AND VENDOR INSTALLED.
- COOLERS/FREEZERS WILL BE "HYBRID" UNITS WITH THE COMPRESSOR MOUNTED ON TOP OF THE CASE AND DO NOT REQUIRE AN OUTDOOR CONDENSING UNIT. REFRIGERATION SYSTEM IS PRE-PIPED AND PRE-CHARGED IN THE FACTORY.
- COOLERS/FREEZERS WILL UTILIZE EVAP-AWAY HEATERS/PANS TO EVAPORATE CONDENSATE INTO THE AIR. THE EVAP-AWAY HEATERS/PANS ARE MOUNTED ON TOP OF CASES. FACTORY INSTALLED CONDENSATE PUMPS ARE USED TO PUMP THE CONDENSATE TO THE EVAP-AWAY HEATERS/PANS. NO PLUMBING FLOOR DRAINS ARE REQUIRED.
- CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM ELECTRICAL PANEL TO 4X4 JUNCTION BOX IN WALL. CONTRACTOR SHALL PROVIDE 10' ELECTRICAL WHIP FROM 4X4 JUNCTION BOX.
- COOLERS/FREEZERS VENDOR WILL CONNECT ELECTRICAL WHIP TO CASE DISCONNECT SWITCH.
- REFER TO FDS SITE SPECIFIC FIXTURE PLAN FOR DIMENSIONED LOCATIONS OF COOLER/FREEZER CASES AND JUNCTION BOX LOCATIONS PRIOR TO ELECTRICAL ROUGH-IN.
- JUNCTION BOX FOR CASE SHOULD ALWAYS BE INSTALLED 18" FROM THE RIGHT EDGE OF EACH CASE AND 100" AFF TO TOP OF JUNCTION BOX.
- IF REQUIRED BY LOCAL CODES, CONTRACTOR SHALL PROVIDE SAFETY GROUND CONNECTED TO DISCONNECT. CONTRACTOR SHALL CONFIRM WITH LOCAL BUILDING INSPECTOR PRIOR TO BEGINNING ELECTRICAL ROUGH-IN.

2B
NTS

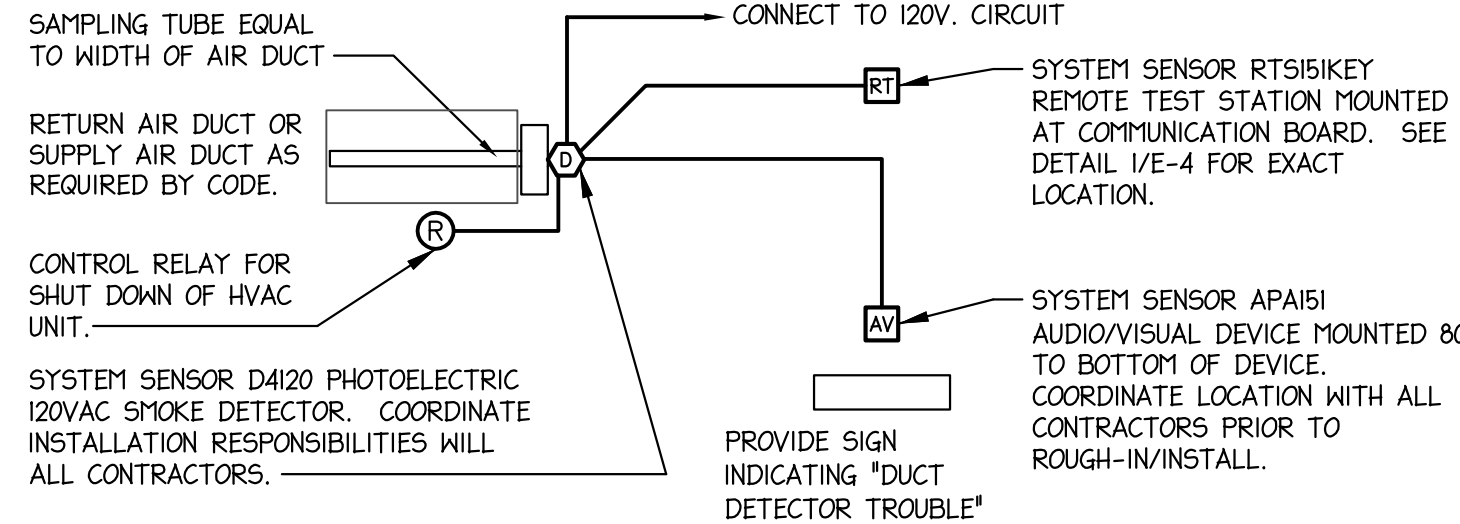
6R - LH
COOLER/FREEZER CASES
INSTALLATION DETAIL

CHECKOUT STATIONS POWER/DATA NOTES:

- DMP POWER POLES ARE BEING FURNISHED WITH CHECKOUT COUNTERS. POWER POLES SHALL BE INSTALLED AND WIRED BY CONTRACTOR.
- FIELD VERIFY LOCATION OF ALL POWER POLES AND JUNCTION BOXES WITH FD PROJECT MANAGER AND FDS "FINAL" SITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING ROUGH-IN. JUNCTION BOXES SHALL BE LOCATED WITHIN 3' OF POWER POLES.
- LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBER AND DESCRIPTION AS SHOWN IN PANEL SCHEDULE.
- ALL DIRTY AND ISOLATED GROUND (IG) CIRCUITS SHALL HAVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS.



3 CHECKOUT STATIONS POWER/DATA DETAIL
1/4"=1'-0"

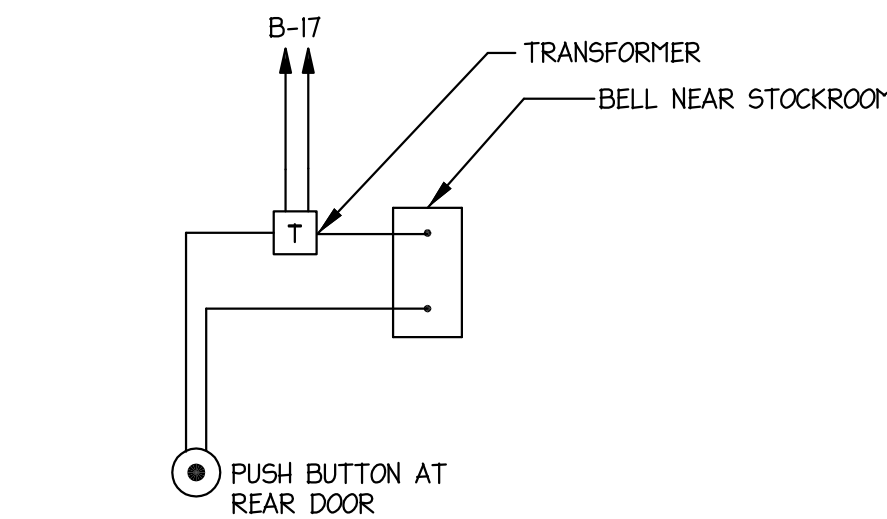


4 DUCT DETECTOR MOUNTING DETAIL
DIAGRAMMATIC ONLY

ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE LATEST LOCAL CODES.

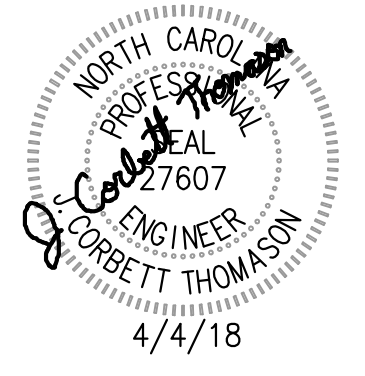
CONTRACTOR SHALL PROVIDE, WIRE AND TEST OPERATION OF DUCT SMOKE DETECTORS, REMOTE TEST STATIONS AND NOTIFICATION DEVICES.

CONTRACTOR SHALL INSTALL/WIRE DUCT SMOKE DETECTORS, REMOTE TEST STATIONS AND NOTIFICATION DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



5 DOOR CHIME SCHEMATIC DIAGRAM
DIAGRAMMATIC ONLY

ENGINEER OF RECORD:
J. CORBETT THOMASON, P.E.
Corbett Engineering PC
Firm # C-4109
2120 DILWORTH RD EAST
CHARLOTTE, NC 28203
PH (704) 333-1020
Corbett@CorbettEngineering.com



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by
date
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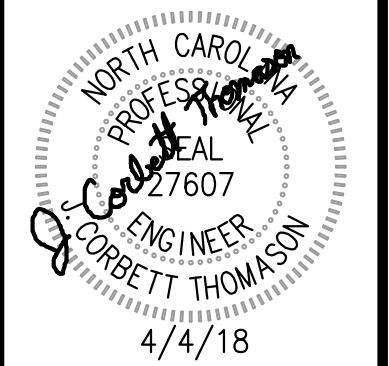
18/04/26	18/04/26	18/04/26	18/04/26
date	project	designed	drawn
checked	checked	checked	checked

RRMM
ARCHITECTS, PC
1317 Executive Blvd, Suite 200
Chesapeake, VA 23320
(757)822-2828 / fax (757)822-8883

FAMILY DOLLAR STORE
FAMILY DOLLAR STORE
2720 US HWY 64 - RUTHERFORD, NC
ELECTRICAL DETAILS

project drawing

sheet



description
by
date
mark
revisions

date	project	designed	drawn	checked
FEB 27 2018	1804/26	JCT	JCT	JCT

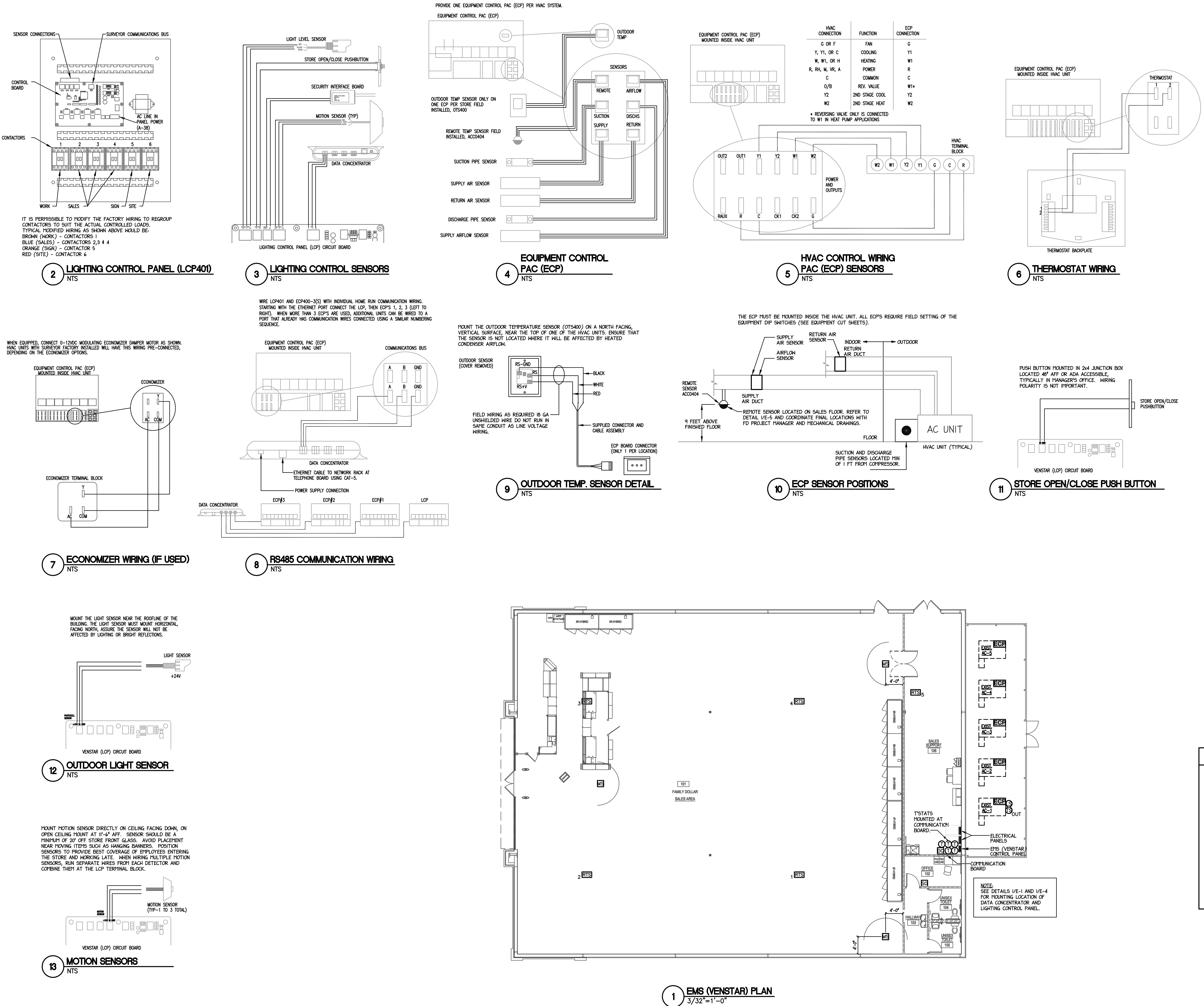
RRMM
ARCHITECTS, P.C.
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FAMILY DOLLAR
FAMILY DOLLAR STORE
2720 US HWY 64 - RUTHERFORD, NJ
ENS VENSTAR PLAN AND DETAILS

project drawing

sheet

E-5



- VENSTAR SYSTEM NOTES:**
- VENSTAR EQUIPMENT SHALL BE SUPPLIED BY FAMILY DOLLAR AND INSTALLED BY CONTRACTOR. CONTRACTOR PROVIDE COMPLETE SYSTEM INSTALLATION AND COMMISSION SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR RETURN TRIPS IF VENSTAR IS NOT FULLY FUNCTIONAL AND COMMUNICATING WITH FDS CENTRAL MONITORING SYSTEM.
 - DRAWINGS ARE FOR GENERAL INSTALLATION INFORMATION ONLY. INSTALLATION SHALL BE BASED UPON SITE SPECIFIC SHOP DRAWINGS WHICH WILL BE FURNISHED TO CONTRACTOR.
 - LOCAL BUILDING CODES AND SITE SPECIFIC SHOP DRAWINGS TAKE PRECEDENCE OVER THIS SHEET.
 - ALL ECPs REQUIRE SETTING OF THE EQUIPMENT NUMBER DIP SWITCHES AS APPROPRIATE. REFER TO THE EQUIPMENT CONTROL PAC INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.
 - CONTRACTOR SHALL PROVIDE ALL EHS WIRING, THERMOSTAT(S), PHOTOCELL, AND MOTION SENSOR(S) WIRING SHALL BE 18-20 GAUGE. COMMUNICATIONS BUS WIRING SHALL BE CAT-5.
 - WIRING SHALL BE RUN IN CONDUIT (ONLY IF REQUIRED BY CODE) OR WIRE TIED IN BUNDLES AND SECURED TO STRUCTURE.
 - DO NOT RUN COMMUNICATION AND SENSOR WIRES IN THE SAME CONDUIT OR BUNDLE WITH CONTROL AND LINE VOLTAGE WIRING.
 - CAUTION! INSTALLATION REQUIRES REMOVAL OF SAFETY COVERS AND EXPOSE THE INSTALLER TO ELECTRICAL HAZARDS. USE OF A LICENSED ELECTRICIAN IS REQUIRED. FOLLOW ALL APPROPRIATE SAFETY PRECAUTIONS. ADDITIONAL SAFETY INFORMATION IS IN THE SURVEYOR INSTALLATION MANUALS.
 - CONTRACTOR SHALL RE-TORQUE ALL FACTORY WIRING TERMINATIONS UPON DELIVERY OF VENSTAR SURVEYOR EQUIPMENT.
 - THE VENSTAR SURVEYOR EQUIPMENT IS FACTORY PREWIRED. CONTRACTOR SHALL MAKE ANY MINOR ADJUSTMENTS DUE TO CHANGES MADE IN THE FIELD.
 - FOR HVAC SYSTEMS, MOUNT THE EQUIPMENT CONTROL PAC (ECP400-3) AT THE AIR HANDLER. POINT THE DISCHARGE SENSOR AS CLOSE TO THE INLET OF THE CONDENSER AND THE SUCTION SENSOR AS CLOSE TO THE OUTLET OF THE EVAPORATOR AS POSSIBLE.
 - FOR TECHNICAL ASSISTANCE, CONTACT VENSTAR TECHNICAL SUPPORT AT 888-82-1862.
 - STANDARD BILL OF MATERIALS:
 - LCP401 - LIGHTING CONTROL PANEL (1 PER STORE)
 - DC400-E2 - DATA CONCENTRATOR (1 PER STORE)
 - OTS400 - OUTDOOR TEMPERATURE SENSOR (1 PER STORE)
 - ECP400-3 - EQUIPMENT CONTROL PAC (1 PER HVAC UNIT)
 - CT400 - COMMUNICATING THERMOSTAT (1 PER HVAC UNIT)
 - SP400 - SENSOR PAC (1 PER HVAC)
 - ACC404 - DROP DOWN SENSOR (1 PER HVAC UNIT)
 - TS400 - INTERIOR MOTION SENSOR (2 ADDITIONAL PER STORE, 1 INCLUDED WITH LCP401)
 - THE LIGHTING CONTROL PANEL, DATA CONCENTRATOR, OUTDOOR TEMPERATURE SENSOR, EQUIPMENT CONTROL PAC, COMMUNICATING THERMOSTAT, SENSOR PAC, DROP DOWN SENSORS, INTERIOR MOTION SENSORS AND OUTDOOR LIGHT SENSORS SHALL BE INSTALLED BY CONTRACTOR. CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION OF VENSTAR EQUIPMENT CONTROLS WITH VENSTAR SITE SPECIFIC SHOP DRAWINGS PRIOR TO INSTALLATION.

GETTING STARTED

PROGRAM SCHEDULES - PRESS THE PROGRAM BUTTON. USE THE MODE BUTTON TO ADVANCE THROUGH THE PROGRAMMING SCREENS. USE THE UP AND DOWN ARROWS TO ADJUST THE FLASHING ITEMS IN EACH SCREEN.

TO NEW SENSORS - PRESS THE OUTSIDE BUTTON. USE THE UP OR DOWN BUTTONS TO ADVANCE TO THE NEXT SENSOR READING.

- OUTSIDE TEMP
- OUTSIDE HUMIDITY
- MOIST HUMIDITY
- REMOTE TEMP
- SUCTION PIPE TEMP
- SUPPLY AIR TEMP
- DISCHARGE PIPE TEMP
- RETURN AIR TEMP
- AIR VELOCITY (FPM)
- SECONDARY VOLTAGE

VENSTAR SYSTEM SYMBOL LEGEND	
MS	MOTION SENSOR MOUNTED 11 1/2" AFF. SEE 3/E-5. (TYP. 3 PER STORE). EXACT LOCATION OF MOTION SENSORS SHALL BE CONFIRMED WITH FAMILY DOLLAR PROJECT MANAGER PRIOR TO INSTALLATION.
OS	STORE OPEN/CLOSE PUSHBUTTON MOUNTED 40" AFF PER ADA. SEE 1/E-5.
DC	DATA CONCENTRATOR MOUNTED AT COMMUNICATION BOARD. SEE 6/E-5 AND 1/E-4.
TS	HVAC THERMOSTATS MOUNTED AT COMMUNICATION BOARD. SEE 6/E-5 AND 1/E-4. (TYP. 1 PER HVAC SYSTEM)
RTS	REMOTE TEMPERATURE SENSOR MOUNTED 10" AFF. SEE 1/E-5. (TYP. 1 PER HVAC SYSTEM). LOCATE ONE REMOTE TEMPERATURE SENSOR NEAR CASH WRAP AND ONE NEAR DIAGONALLY OPPOSITE SIDE OF SALES AREA NEAR BACK WALL.
LS	OUTDOOR LIGHT SENSOR. SEE 12/E-5.
OS	OUTDOOR TEMPERATURE SENSOR. SEE 1/E-5.
ECP	EQUIPMENT CONTROL PAC (ECP). SEE DETAILS 4/5, 6/47 ON E-5. (TYP. 1 PER HVAC SYSTEM)
LC	LIGHTING CONTROL PANEL MOUNTED NEXT TO ELECTRICAL PANELS. SEE 2/E-5 AND 3/E-5.

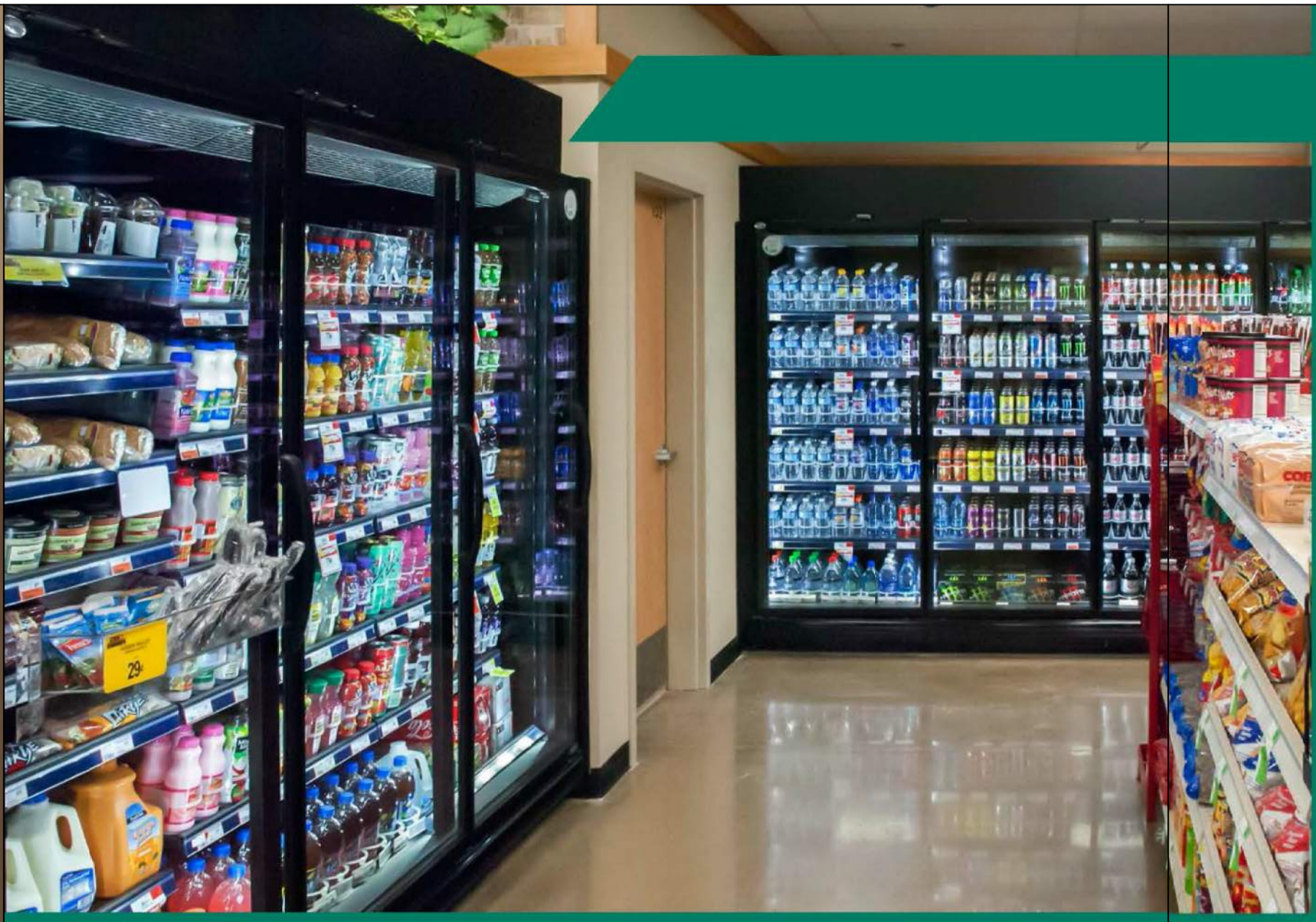


HYBRID™ DISPLAY CASES

the responsive company™

REACH-IN FREEZER/COOLER SHEET 1 OF 6

Dollar Tree/Family Dollar Highlight™ Merchandiser Hybrid™ Specs									
Medium and Low Temp Hybrid™ Reach-Ins with 30" x 68" Doors: RHCC30 & RHZC30*									
Note: All Zero Zone display cases manufactured for shipment within the U.S. meet current DOE, IECC, and CEC energy requirements. ** Zero Zone Hybrid™ is defined and listed as a remote refrigerated display case.									
PHYSICAL DATA									
	(110V) RHCC30	2RHCC30	3RHCC30	4RHCC30	5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30
Package (ft.)	See Note 11	27.8	41.4	55.1	68.7	82.3	95.9	109.5	123.1
Radius (ft.)		56	85	110	137	164	191	218	245
Shelf Depth (in.)		24	24	24	24	24	24	24	24
Weight (lbs.)		828	1,078	1,388	1,693	2,003	2,313	2,623	2,933
*Does not include weight of condensing unit. Weight includes 2" insulation at 24 lbs. per foot.									
WITH CONDENSATE EVAPORATION SYSTEM									
	Zero Zone ChillBrite™ 5 LED Lighting, Zero Zone CoolView Emission™ Standard/No-Energy Doors, SSC Fan Motors	2RHCC30	3RHCC30	4RHCC30	5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30
MOCF (amps)†		15	15	15	15	20	25	30	40
MCA (amps)†		5.7	7.8	10.8	12.9	18.4	24.4	30.8	36.6
ENERGY DATA									
Daily Energy Use (kWh)		7.1	11.1	15.8	20.8	29.8	38.4	47.2	57.5
Projected Heat (Btu/h)†		1,008	1,577	2,134	2,734	3,834	4,742	5,908	7,222
WITHOUT CONDENSATE EVAPORATION SYSTEM									
	Zero Zone ChillBrite™ 5 LED Lighting, Zero Zone CoolView Emission™ Standard/No-Energy Doors, SSC Fan Motors	2RHCC30	3RHCC30	4RHCC30	5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30
MOCF (amps)†		15	15	15	15	20	25	30	35
MCA (amps)†		5.7	7.8	8.6	10.6	12.2	15.2	18.3	20.3
ENERGY DATA									
Daily Energy Use (kWh)		6.9	10.8	11.5	14.5	19.2	23.8	28.4	31.2
Projected Heat (Btu/h)†		980	1,534	1,641	2,063	2,737	3,457	4,184	4,729
R-448A CHARGE									
R-448A Charge (lbs.)†		3.0	4.0	5.1	6.2	8.1	9.9	12.5	14.0
REFRIGERATION									
Zero Zone Condensing Unit No. (Rated Weight (lbs.))		69-9933 100	69-9934 100	69-9935 100	69-9936 100	69-9937 120	69-9938 120	69-9939 150	69-9970 150
REGULATORY DATA									
FDA (Total Display Area) (ft.)		22.64	31.46	41.27	51.09	64.39	78.49	92.57	104.19
CDEF (Calculated Daily Energy Consumption) (kWh/day)†		4.52	6.30	8.07	9.85	13.66	17.50	21.35	24.19
Notes: 1. RHCC30 (110V) 3-phase service, 150V-194V/200V, black power, white neutral, green ground. 2. 215 per cases, 200V-240V service, 194V-240V/200V, red & black power, white neutral, green ground. 3. No-load current consumption available for low voltage conditions. 4. System disconnect is shipped case, to be installed on condensing unit. 5. Main breaker disconnect not provided. 6. Adequate net clearances must be provided to dissipate heat from the top of the unit for proper performance. Clearance of less than 12" above the top of the unit to the ceiling requires special design considerations. 7. See Zero Zone Freezer™ Installation and Operation Manual for specific details. 8. Refrigerant charge includes combined condensing unit and case charges. 9. See separate match case size details for additional details. RHCC30, RHZC30, RHCC30, RHZC30. 10. MOCF (Maximum Over Current Protection) is the maximum circuit breaker size that can be used to properly protect the product. 11. MCA (Minimum Circuit Ampacity) is used to calculate the minimum wire size for the product. This is calculated as the MOCF value multiplied by 1.25. The resulting value is rounded up to the next whole number. 12. Zero Zone recommends that a circuit breaker size should be larger than the MCA, but smaller than or equal to the MOCF. For example, if the equipment is rated having an MOCF of 20 amps and an MCA of 18 amps, a 20 amp or 25 amp circuit breaker would be acceptable. 13. Standard RHCC30/30 cases are not applicable for the stand alone case. 14. CDEF energy values do not include a condenser fan heater, pump, or condensing unit per 10 CFR 431. 15. DOE - Department of Energy, CEC - California Energy Code, IECC - International Energy Conservation Code.									
DOE Basic Model Number Reference									
1RHCC30	2RHCC30	3RHCC30	4RHCC30	5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30	
2RHCC30	3RHCC30	4RHCC30	5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30		
3RHCC30	4RHCC30	5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30			
4RHCC30	5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30				
5RHCC30	6RHCC30	7RHCC30	8RHCC30	9RHCC30					
6RHCC30	7RHCC30	8RHCC30	9RHCC30						
7RHCC30	8RHCC30	9RHCC30							
8RHCC30	9RHCC30								
9RHCC30									

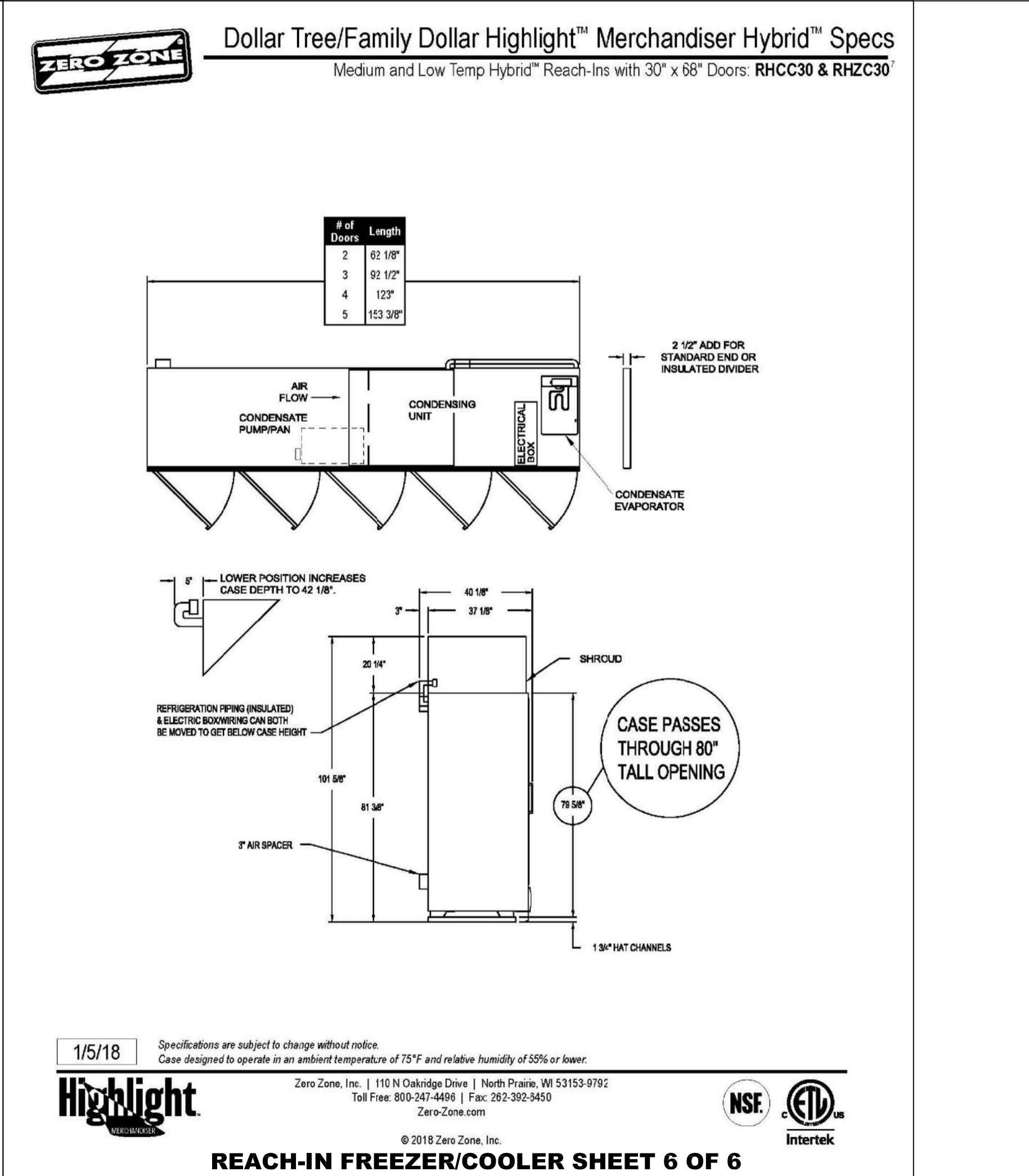


Highlight

Modular refrigeration system installs quickly and easily.

Increased packout & facings with maximum product visibility.

REACH-IN FREEZER/COOLER SHEET 2 OF 6

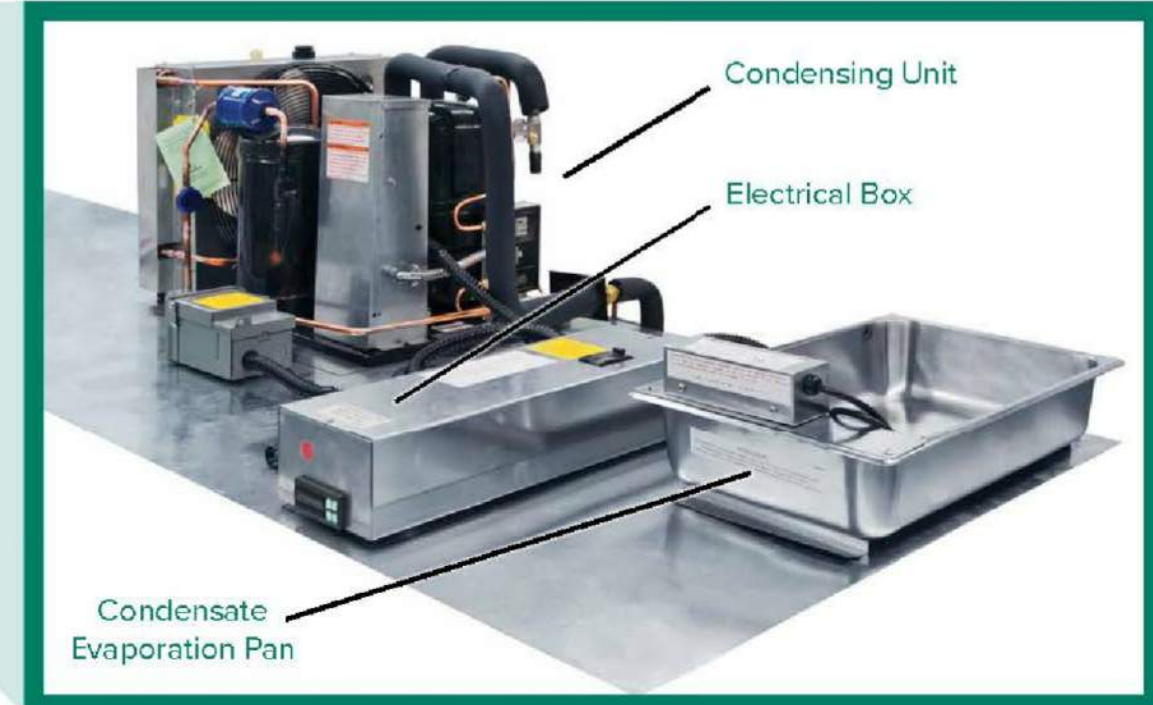


THE BEST OF BOTH WORLDS

Zero Zone Hybrid™ freezers and coolers combine all of the benefits of a self-contained display case with the selling power and reliability of a supermarket case. Bringing together the best of both worlds, these remote cases are configured with a remarkably easy-to-install, top-mount modular refrigeration kit.

- ✓ A 2-door Hybrid™ has the same capacity as a typical 3-door self-contained unit... in 12" less floor space!
- ✓ Cases fit through 80" tall doorways.*
- ✓ Everything is pre-wired and labeled.
- ✓ Pre-charged refrigeration piping with quick-connect threaded couplings.
- ✓ **Electronic control** – time clock, temperature and defrost control, visual and audible temperature alarm, and network communication capability.
- ✓ **Condensate collection and removal system** – collection pan, pump, float switch, condensate dissipation pan with heater element, and connecting tubing.

*Optional base configurations are available to fit Crystal™ Merchandiser Hybrid™ cases through doorways as low as 80". Consult factory for details.



REACH-IN FREEZER/COOLER SHEET 3 OF 6

Also Available as a Hybrid™...



Zero Zone products are built with today's modern retailers in mind—assembled in the USA with the highest quality and innovation. Zero Zone gives you the flexibility, style, and energy efficiency you demand, while providing you with the responsive and personalized service you deserve.



"Zero Zone Hybrid™ Merchandisers are perfect for dollar, drug, and convenience stores. They are quality remote cases with the condensing unit on top, allowing them to operate independently—anywhere in your store. They even work beautifully in supermarkets to display seasonal or special sale items."

Steve G., Reach-In Display Case Product Manager



REACH-IN FREEZER/COOLER SHEET 4 OF 6

FOR INFORMATION ONLY

REFRIGERATION SPECIFICATIONS
REACH-IN UNITS DETAILS AND SPECIFICATIONS

project drawing

DSI