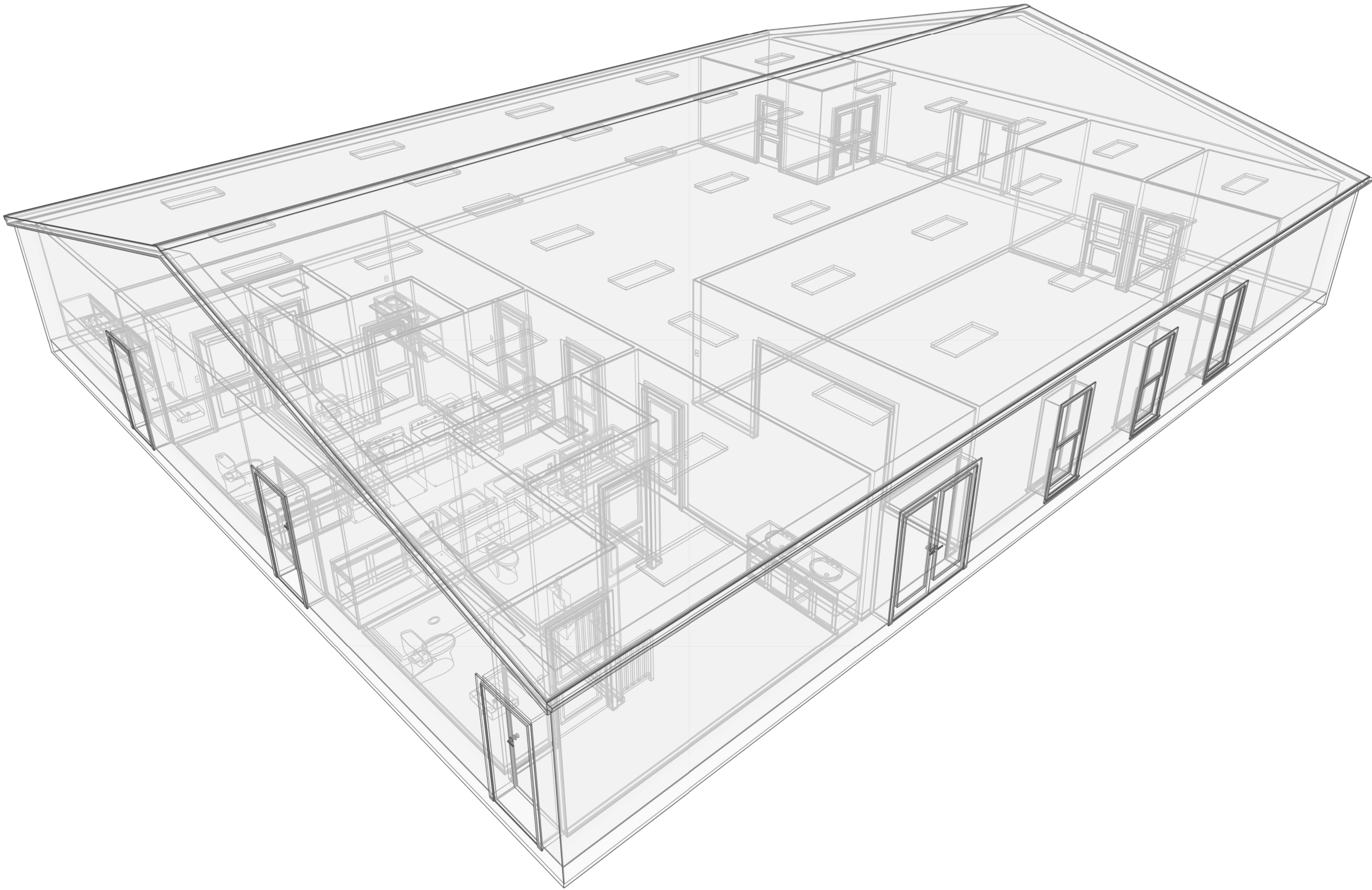


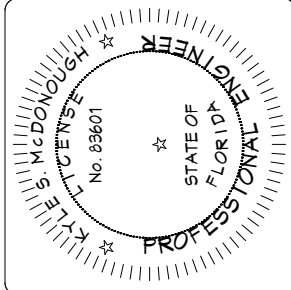
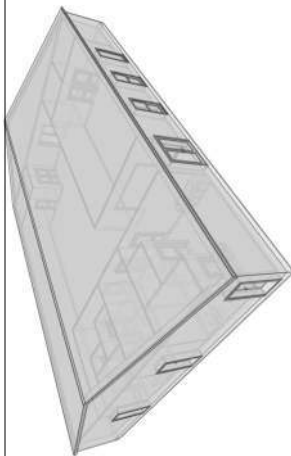
Dreamin' & Driftin' RV Welcome Center

Lake City, Florida

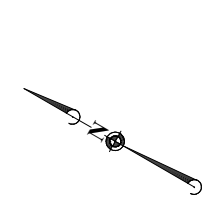


Digitally signed by
Kyle McDonough
Date: 2023.06.26
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This document has been electronically signed by Kyle S. McDonough using a Digital Signature and Date. This electronic signature is generated via a third-party verification service, and the application of it signs and certifies the entire PDF document. As such, only the first page of this document requires a digital verified signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



PREPARED BY
Kyle McDonough
William Brown



SCOPE OF WORK:

TO SHOW INTERIOR BUILDOUT OF A 4500sf COMMERCIAL OFFICE BUILDING. EXTERIOR: CONSTRUCTION, FINISH & DETAILS ARE ALL PERFORMED BY OTHERS.

INDEX:

A101 - INTRO PAGE

A102 - PROJECT ANALYSIS, DATA & GENERAL NOTES

A103 - INTERIOR LAYOUT PLANS, SECTIONS & DETAILS

A104 - OCCUPANCY ANALYSIS & LIFE SAFETY PLAN

A105 - ADA SECTIONS & DETAILS

A106 - WALL SECTIONS & DETAILS

M-1 - MECHANICAL NOTES & GENERAL DETAILS

M-2 - MECHANICAL FLOOR PLAN

E-1 - ELECTRICAL NOTES & GENERAL DETAILS

E-2 - ELECTRICAL LIGHTING PLAN

E-3 - POWER PLAN, RISERS & PANELS

P-1 - PLUMBING NOTES & GENERAL DETAILS

P-2 - PLUMBING FLOOR PLAN

PROJECT DATA:

PROJECT NAME: DREAMIN' & DRIFTIN RV WELCOME CENTER

PROJECT ADDRESS: TBD

PROJECT ZONING: TBD

DESIGN CODE: FLORIDA BUILDING CODE 2020 11TH EDITION, FLORIDA FIRE PREVENTION CODE 2018, AND ASCE-7-16

SQUARE FOOTAGE: 4500SF (+/-)

STORIES: 1 STORY

OCCUPANCY LOAD: 53

OCCUPANCY TYPE: B (BUSINESS)

CONSTRUCTION TYPE: II UNSPRINKLED/ UNPROTECTED

ENCLOSURE: ENCLOSED BUILDING

FIRE CODE: NFPA 101 FIRE PREVENTION CODE 2018

PROJECT ANALYSIS:

2020 FLORIDA ACCESSIBILITY ANALYSIS
100% ADA COMPLIANT: YES
VERTICAL ACCESSIBILITY: N/R
IDENTIFY 20% HANDICAP UPGRADES: YES
AN ACCESSIBLE ENTRANCE: YES
AN ACCESSIBLE ROUTE TO ALTERED AREA: YES
ACCESSIBLE RESTROOM(S): YES
ACCESSIBLE FOUNTAIN: N/R

PLUMBING REQUIREMENTS FOR BUILDINGS:
OCCUPANT LOAD: 146 PER FBC 1004.1.2
53 / 2 = 27 MEN, 27 WOMEN
PER FBC 403.1.1

		REQUIRED	PROVIDED
MEN	WC	1	4
	LAV	1	4
WOMEN	WC	1	4
	LAV	1	4
SVC	FTN	1	1
	WC	1	1

GENERAL NOTES:

1. ALL CONSTRUCTION MUST COMPLY WITH ALL GOVERNING CODES.

2. ALL CONTRACTORS AND SUB-CONTRACTORS WILL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE CONSTRUCTION DOCUMENTS AND WILL VERIFY EXISTING SITE AND BUILDING CONDITIONS PRIOR TO SUBMITTING A BID.

3. SUB-CONTRACTORS BEFORE STARTING THEIR WORK WILL CHECK AND VERIFY THEIR PARTICULAR RELATED REQUIREMENTS FOR COMPLIANCE ALONG WITH MEASUREMENTS, SURFACE LEVELS, SURFACE CONDITIONS NEAR & ABOUT THEIR WORK. IT WILL BE CONCLUDED THAT EACH BIDDER UNDERSTANDS AND KNOWS WHAT WILL BE REQUIRED.

4. THIS ENGINEER AND HIS PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL OF & WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK ON THE PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE.

5. ALL CONTRACTORS WILL PROVIDE ADEQUATE BRACING AND/OR SHORING TO INSURE STRUCTURAL STABILITY OF THE BUILDING AND ALL RELATED BUILDING COMPONENTS, I.E.: STRUCTURAL WALLS, INTERIOR WALL ASSEMBLIES ETC., DURING THE CONSTRUCTION PHASE OF THIS PROJECT.

6. ALL WORK WILL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCE & PRESERVE MAXIMUM HEADROOM & AVOID OMISSIONS. EACH CONTRACTOR WILL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED BY CODE AND NEEDS TO COMPLETE THIS WORK.

7. ALL MATERIAL USED WILL BE NEW & BEAR UL LABELS WHERE REQUIRED & MEET NEMA STANDARDS.

8. LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS. DO NOT SCALE THE DRAWINGS.

9. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING, CUTTING, AND/OR INSTALLING MATERIAL, PRODUCT OR EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, CONTACT THE ENGINEER BEFORE PROCEEDING WITH THAT WORK.

10. ALL SUB-CONTRACTORS WILL PROVIDE A CERTIFICATE OF INSURANCE TO THE OWNER PRIOR TO STARTING ANY WORK ON THIS PROJECT. CERTIFICATE OF INSURANCE CAN NOT BE TERMINATED OR CANCELED WITHOUT 10 DAYS PRIOR WRITTEN NOTICE TO THE OWNER.

11. NO SUBSTITUTIONS OF ANY KIND FOR MATERIALS SPECIFIED ON THESE CONSTRUCTION DOCUMENTS IS ALLOWED. NO "EQUIVALENT" SUBSTITUTIONS WILL BE MADE, UNLESS APPROVED IN WRITING BY THE ENGINEER & APPROVED BY THE OWNER DUE TO THE LACK OF AVAILABILITY OF ORIGINAL, U.O.N. IN THESE DOCUMENTS

12. EACH CONTRACTOR IS RESPONSIBLE FOR THE FIRST CLASS WORKMANSHIP & WILL ASSUME ALL RESPONSIBILITY FOR THE CARE AND PROTECTIONS OF HIS OWN WORK & MATERIAL FROM DAMAGE. HE WILL MAKE GOOD ANY DAMAGE TO HIS OWN OR OTHER WORK CAUSED BY HIMSELF OR WORKMAN EMPLOYED BY HIM.

13. EACH CONTRACTOR WILL ABIDE BY LOCAL AREA STANDARDS & RELATED OSHA STANDARDS FOR THE SAFETY OF THEIR EMPLOYEES ON SITE. THIS ENGINEER AND HIS PROFESSIONAL CONSULTANTS WILL BE HELD HARMLESS BY THE OWNER, GC, AND RELATED AWARDED TRADES, ON THIS PROJECT FOR ACCIDENTS OR INJURIES CAUSED OR ACCRUED ON THIS PROPERTY DURING CONSTRUCTION PHASES OF THIS PROJECT.

14. SHOULD FIRE ALARM & SPRINKLER DRAWINGS BECOME A REQUIREMENT, IT WILL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND TO BE SUBMITTED AS SEPARATE PERMIT ISSUE.

PLUMBING NOTES:

A - CONTRACTOR IS RESPONSIBLE FOR PERFORMING FIELD ASSESSMENT TO VERIFY & ENSURE INFORMATION WITHIN THESE DRAWINGS ARE AN ACCURATE REPRESENTATION.

B - THE WORK SHALL CONFORM TO ALL FEDERAL, STATE & LOCAL CODES/ORDINANCES. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL.

C - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCES. ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM HAS BEEN ACCEPTED.

D - DO NOT SCALE DRAWINGS

E - PLUMBING CONTRACTOR SHALL MAINTAIN A CURRENT SET OF PLUMBING DRAWINGS AT THE PROJECT SITE TO BE USED FOR CONSTRUCTION PROGRESS, REVIEW & FUTURE "AS-BUILTS". ALL MARKS AND REVISIONS SHALL BE MADE WITH RED PENCIL/PEN AND SHALL BE LEGIBLE & ACCURATE. SUBMIT DRAWINGS TO EOR AT THE COMPLETION OF WORK FOR REVISION.

F - SANITARY WASTE AND VENT PIPING ABOVE GRADE SHALL BE SCH. 40 SOLVENT WELDED FITTINGS. COLD WATER PIPING SHALL BE SCH. 40 W/ MATCHING SOLVENT WELDED FITTINGS. HOT WATER PIPING SHALL BE SCH. 40 CPVC W/ MATCHING SOLVENT WELDED FITTINGS.

G - PLUMBING FIXTURES SHALL BE AS SCHEDULED ON DRAWING. PROVIDE CONTROL STOP VALVES IN EA. SUPPLY TO EA. FIXTURE. THE FINISH OF FITTINGS, ACCESSORIES & SUPPLY EXPOSED TO VIEW SHALL BE CHROME PLATED.

H - PENETRATIONS: PROVIDE CHROME PLATED BRASS ADJUSTABLE ESCUTCHEON PLATES AT EXPOSED PIPE PENETRATIONS THROUGH WALLS, PARTITIONS, CEILINGS & FLOORS.

I - TESTING WATER SYSTEM: TEST THE ADDED PORTION OF THE PLUMBING SYSTEM @ 150% OF DESIGN PRESSURE, BUT NOT LESS THAN 100 PSIG. ALLOW PRESSURE TO REMAIN FOR 24 HOURS. INSPECT EVERY JOINT FOR LEAKS WHILE UNDER TEST PRESSURE. REPAIR ALL LEAKS DETECTED WITH NEW MATERIAL & RETEST.

ELECTRICAL NOTES:

A - THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK AS INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE EOR AS SOON AS POSSIBLE; FIELD ALLOCATED DECISIONS IN ARE NOT TO BE PERFORMED WITHOUT EOR APPROVAL TO ADDRESS THESE ISSUES.

B - CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND FAMILIARIZE HIMSELF/HERSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL & COMMUNICATIONS INSTALLATION. IT IS CONTRACTORS RESPONSIBILITY TO MAKE PROVISIONS TO THE COST THEREOF.

C - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODE/ ORDINANCE AUTHORITY JURISDICTION & THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. THE SPECIFICATION, CODES & STANDARDS LISTED ARE UTILIZED IN THIS PROJECT: NFPA-70, NFPA-101, UL, NEMA, ANSI, FED. SPEC., IPCEA, IEEE, OSHA.

D - DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO ENGINEERING PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNERS REPRESENTATIVE/ CONSULTANT.

E - IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

MECHANICAL NOTES:

A - IT IS CONTRACTORS RESPONSIBILITY TO ASSESS REFERENCED INFORMATION WITHIN THESE PLANS TO ENSURE ACCURACY PRIOR TO BID, OR COMMENCEMENT OF WORK

B - ALL WORK SHALL BE DONE IN CONFORMITY WITH THE LATEST EDITION OF ALL APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION

C - ALL INFORMATION ILLUSTRATED WITHIN THESE PLANS ARE ACCORDING TO CONSTRUCTION DOCUMENTATION PROVIDED, OR INFORMATION GATHERED BY EOR TO THE BEST OF THEIR ABILITY. EOR MAKES NO REPRESENTATION FOR THE ACCURACY OF GIVEN INFORMATION AS ILLUSTRATED WITHIN DRAWINGS. INFORMATION, MATERIALS, EQUIPMENT, DIMENSIONS, CONDITIONS, ETC SHALL BE FIELD VERIFIED

D - ALL WORK SHALL BE DONE IN STRICT COORDINATION AND AS APPROVED BY OWNER. ALL INTERRUPTIONS IN THE FUNCTIONING OF MECHANICAL SYSTEMS SHALL BE DONE DURING OFF-PEAK, OR UNOCCUPIED TIME (STRICTLY APPROVED BY OWNER).

E - CONTRACTOR IS RESPONSIBLE FOR COORDINATING INFORMATION REQUEST AND WORK PERFORMED. ANY REQUEST FOR INFORMATION PERTAINING TO CONFLICT OF WORK BEING PERFORMED THAT IS ILLUSTRATED ON THESE PLANS IS TO BE REFERENCED TO EOR THE MOMENT IT IS NOTICED.

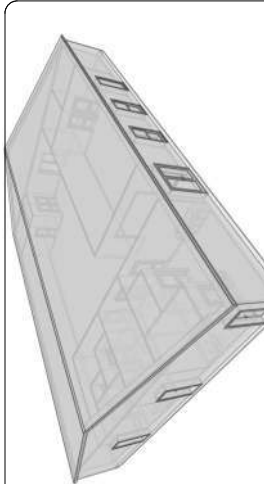
F - ALL A/R GRILLES SHALL BE PROVIDED WITH PROTECTIVE CONSTRUCTION FILTERS AND A/C UNITS SHALL HAVE THEIR FILTERS REPLACED NEW ONES AT THE END OF THE CONSTRUCTION PERIOD.

Location Map

Scale - No Scale

Parcel Map

Scale - No Scale





Exit Discharge
3070 Door
34" Clear
Exit Capacity 170

Exit Discharge
3070 Door
34" Clear
Exit Capacity 170

Exit Discharge
3070 Door
34" Clear
Exit Capacity 170

Exit Discharge
6070 Door
68" Clear
Exit Capacity 340

Exit Discharge
6070 Door
68" Clear
Exit Capacity 340

MAX TRAVEL
DISTANCE: 91'-9"

MAX TRAVEL
DISTANCE: 88'-5"

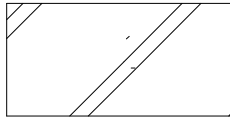
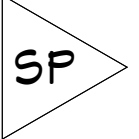

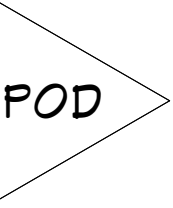
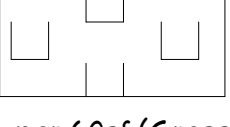

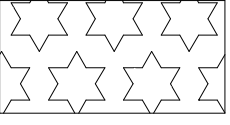



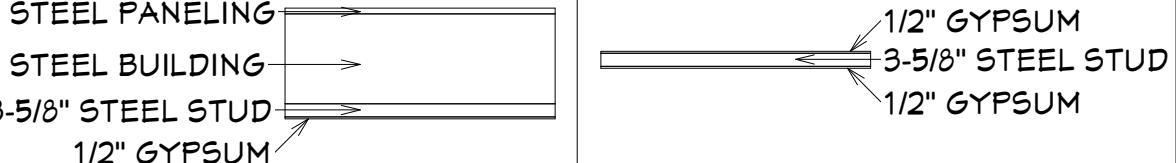

LIFE SAFETY PLAN
SCALE - 1/4" = 1'

Business Use Analysis

Code Requirements	Project Information	Code References Used	
	±4500 S.F. Unsprinkled Unprotected	2020 FBC 7th Edition	2018 Fire Prevention Code NFPA 101
Occupancy Use:	Group B (Business)	304.1 - Business	NFPA 101.6.1.11
Required Separation:	N/R	508.4	NFPA 101 6.1.14.4.1 (B)
Construction Type:	Type II	603	
Occupant Load:	53 (Max)	1004.1.2	NFPA 101 7.3.1.2
Egress Width:	306"	1005.1	NFPA 101 7.3.3.1
Max Travel Distance:	91'-9"	1017.2 (200' Allowed)	NFPA 101.37.2.6.1 (200' Allowed)

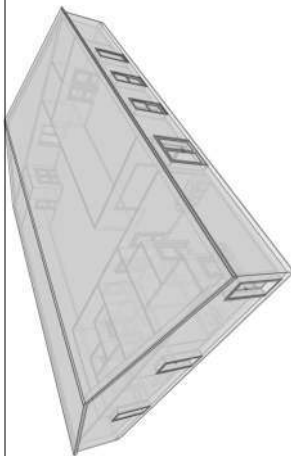
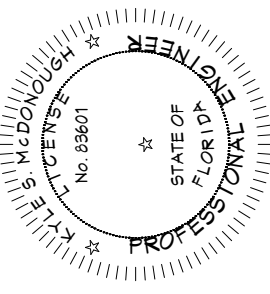
Business Egress

Egress Width Hinged Door(s)
53 Occupants * 0.2
= 34" of Egress Required (Min.)
= 238" of Egress Provided
238" / 0.2 = 1190 Occ. Capacity (Actual 53)

Office/Staff Areas	SF	MAX OCC.	SEAT COUNT	Life Safety Plan Legend	
 1 per 100sf (Gross)	775	8	-		Starting Point
Mercantile Area  1 per 60sf (Net)	730	13	-		Point of Decision
Retail Area  1 per 60sf (Gross)	1859	31	-		Exit Sign w/ Emergency Flood Lighting & Battery Back-Up
Storage/Utility Area  1 per 300sf (Gross)	41	1	-	 	Emergency Flood Light w/ Battery Back-Up Fire Extinguisher
Wall Legends					Emergency 24 Hr. Light w/ Battery Back-Up**
					Electric Meter Can Location



Life Safety Plan



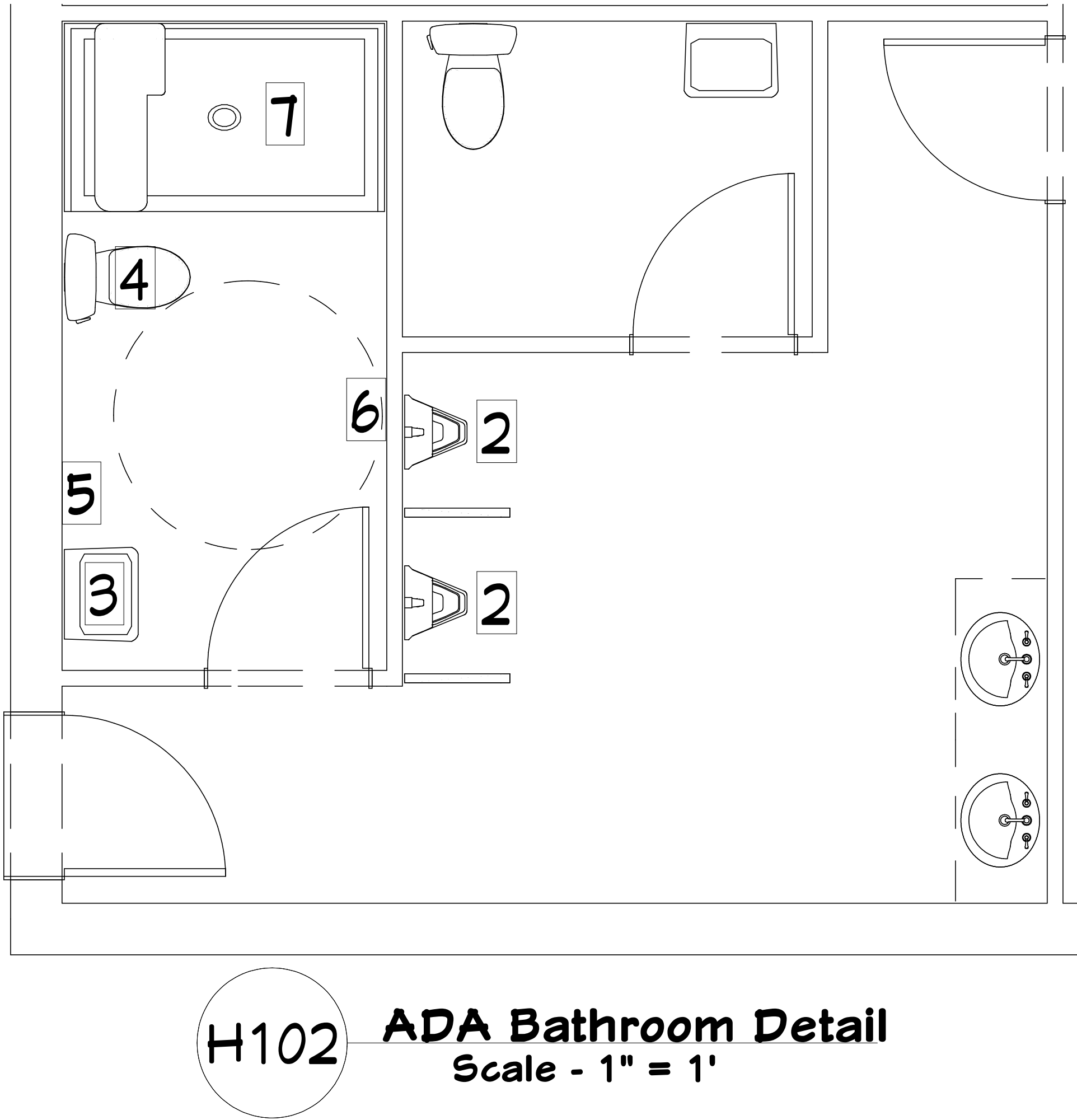
Construction of a New Commercial Building

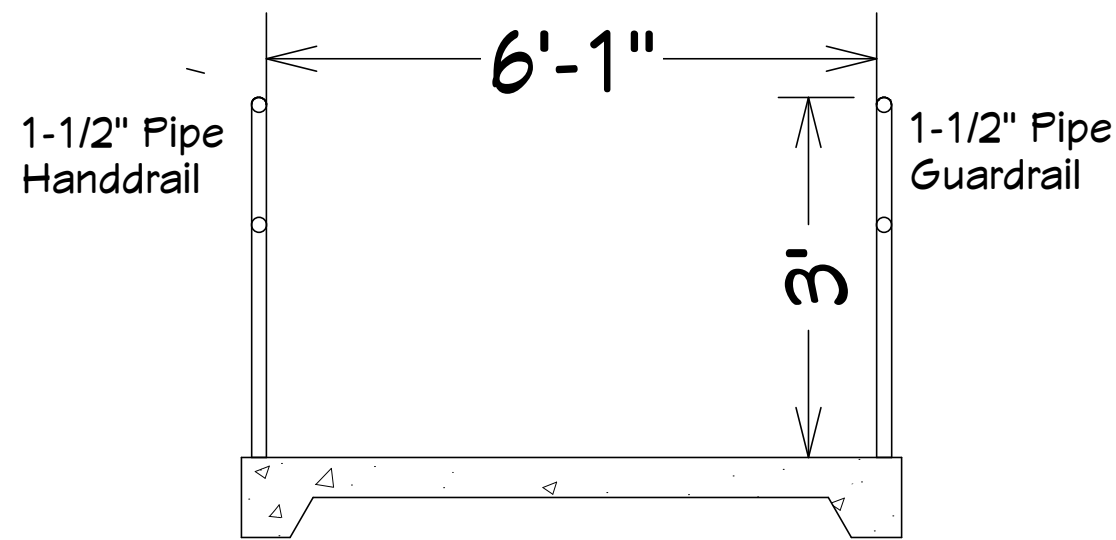
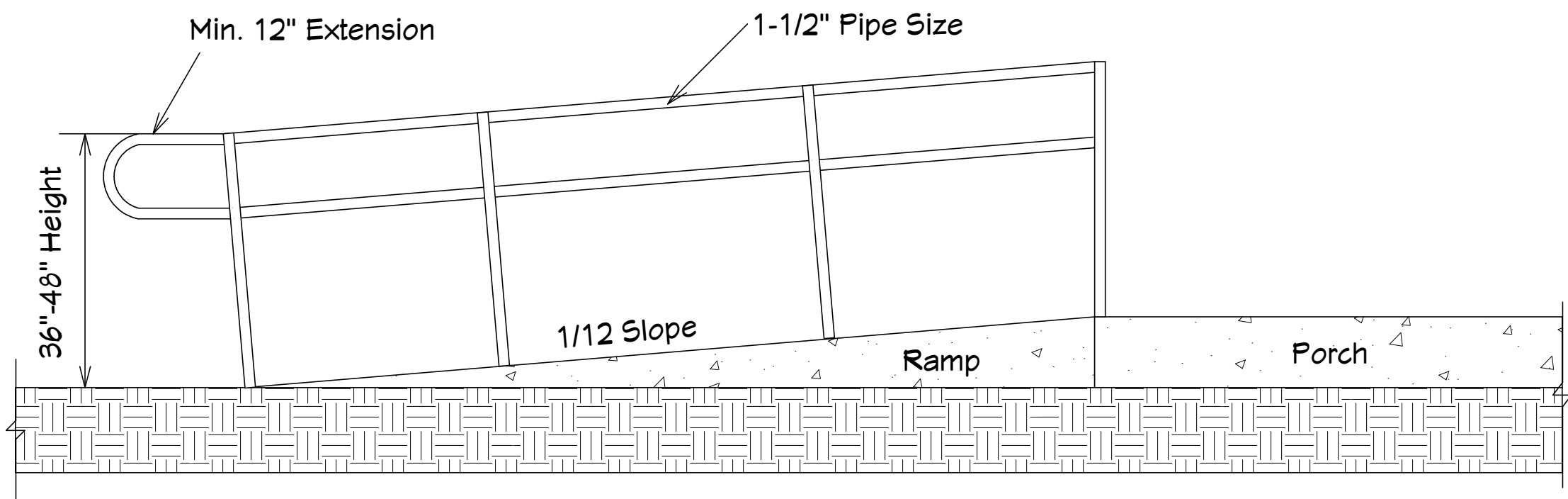
Dreamin & Driftin

TBD, Lake City, FL 32055

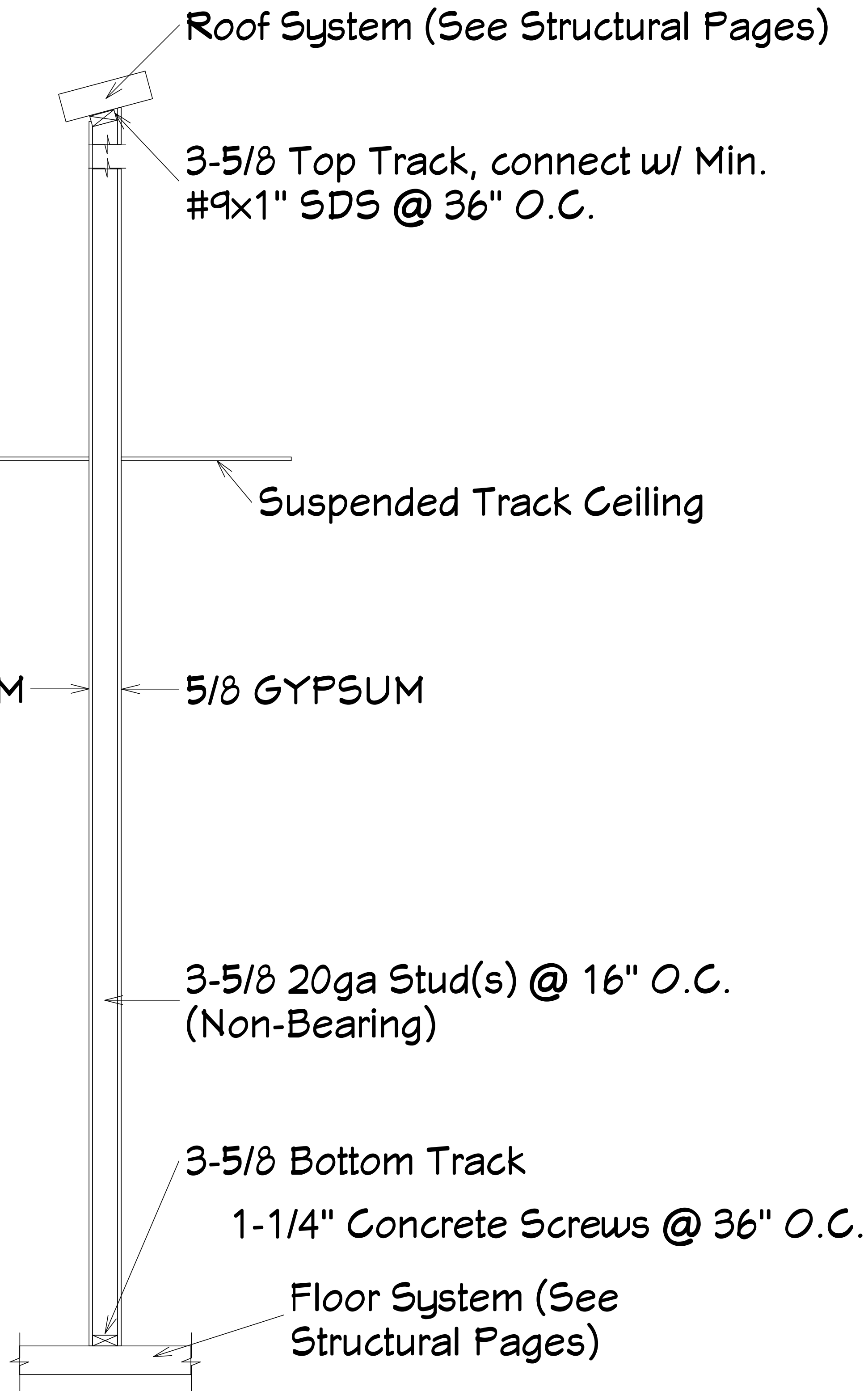
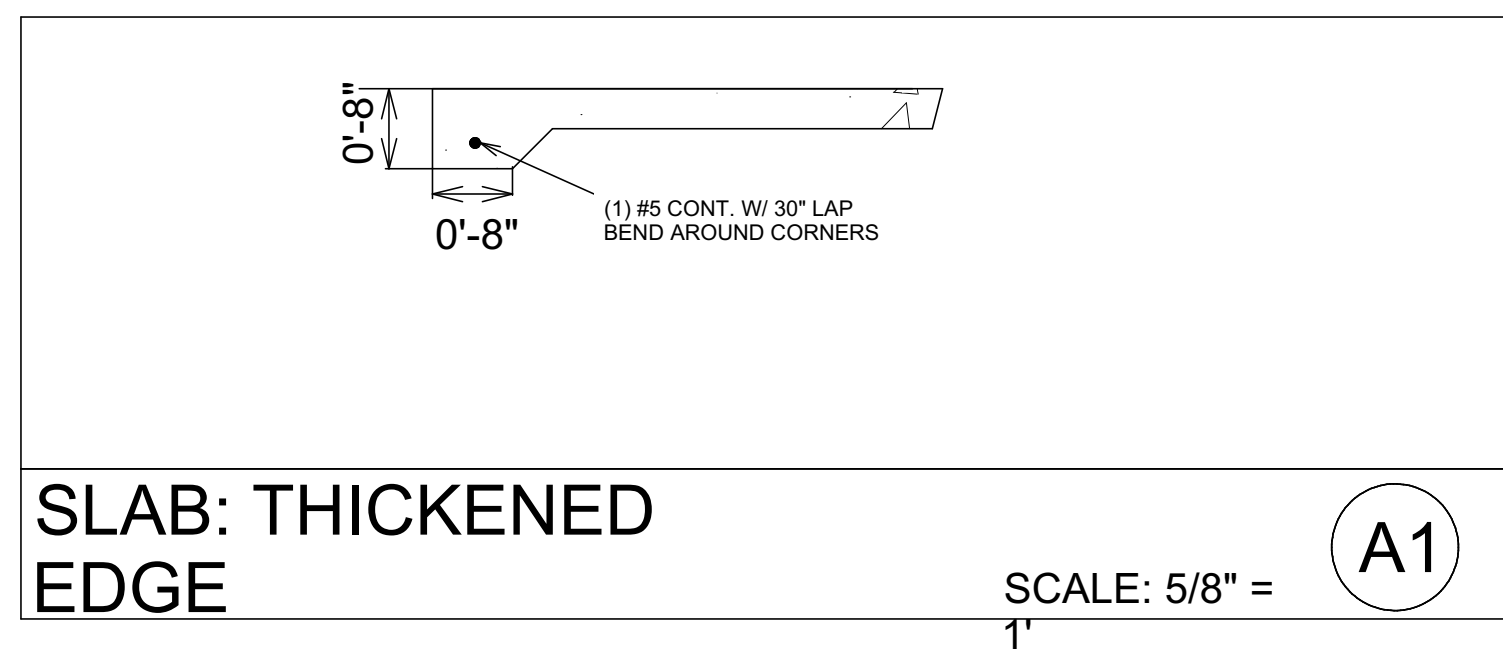
DATE 03/29/23	DRAWN BY WEB	CHECKED BY 2023-115
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<h1>Bathroom Fixture Details - 1/2" = 1' Scale</h1>			
<p>WATER COOLERS - PLAN</p> <p>30" X 48 Min. CLEAR FLOOR SPACE</p> <p>WOOD FRAMED WING WALLS, 4" MAX FOUNTAIN PROTRUSION</p> <p>40" MAX STD SLOUTLET</p> <p>36" MAX SIDE ACCESS OUTLET HT.</p>		<p>TOILET STALL - PLAN</p> <p>54" (MIN)</p> <p>42</p> <p>12</p> <p>6</p> <p>36" GRAB BAR</p> <p>BACKING</p> <p>18</p> <p>34" MAX CLR OF GRAB BAR</p> <p>18" GRAB OF REOL</p> <p>17-18 ACCESS SEAT HT.</p> <p>19" REOL SEAT HT.</p> <p>11" MIN NG TO 4" MAX DISPENSER</p> <p>36" MAX X</p> <p>12</p> <p>BACKING (typ)</p> <p>30" MAX LOCATE FLUSH HANDLE ON OPEN SIDE OF TOILET</p> <p>TOILET STALL</p>	
1	Drinking Fountain Detail	4	ADA Toilet Detail
2	Wall Mounted Urinal Detail	<p>SOAP DISPENSER</p> <p>REAC 24" MAX</p> <p>46" MAX</p> <p>PAPER TOWEL DISPENSER</p> <p>48" MAX</p> <p>BRACKET FOR WALL DISPENSER/ORDER</p>	
3	ADA Sink Detail	5	Dispense Details
<p>MIRRO R</p> <p>24" MAX</p> <p>BACKING</p> <p>BOT. OF THE</p> <p>40" MAX</p> <p>40" MAX</p> <p>INSUL</p>		<p>48" max</p> <p>1220</p> <p>27 max</p> <p>685</p> <p>side wall</p>	
7	ADA Shower Detail		

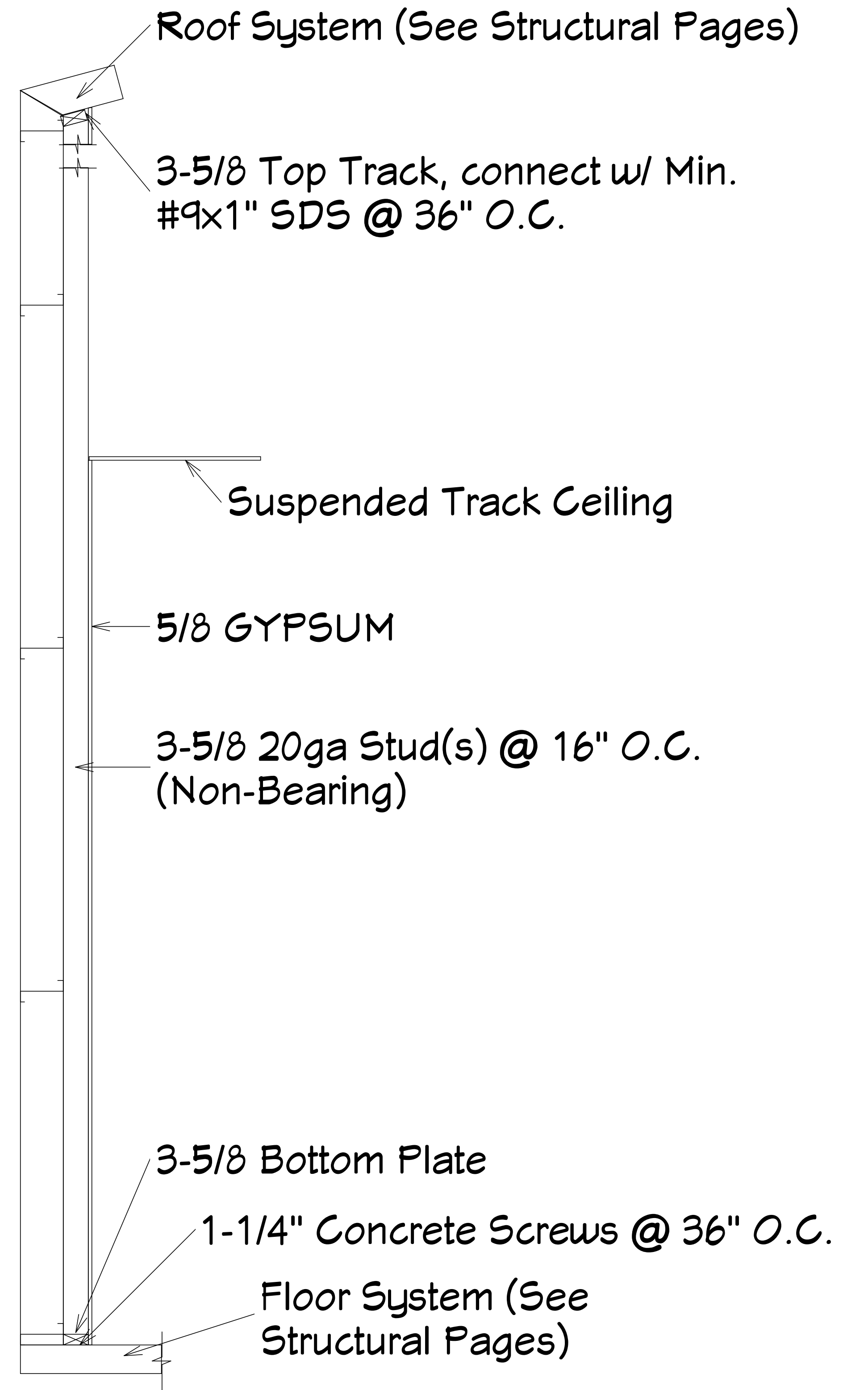




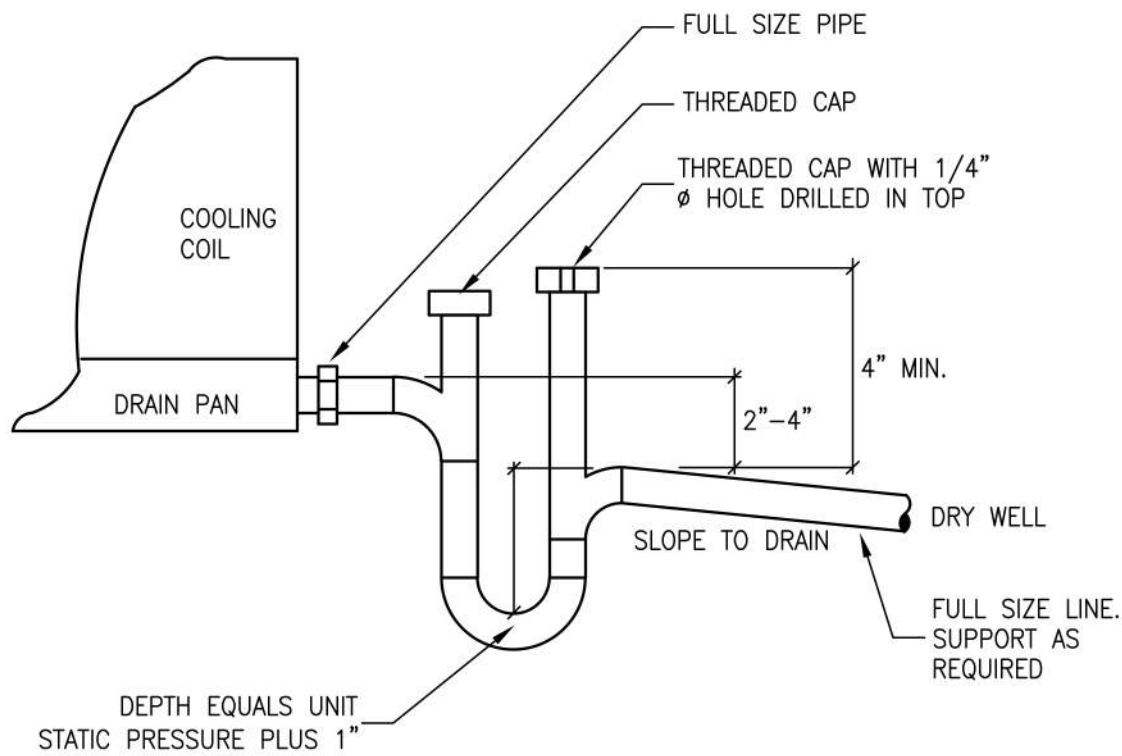
H103 Ramp Section Detail
Scale - 5/8" = 1'



S1 Wall Section Detail
Scale - 1" = 1'



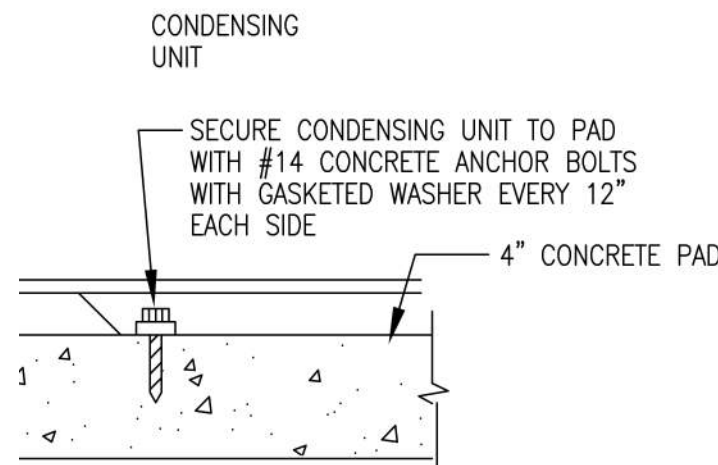
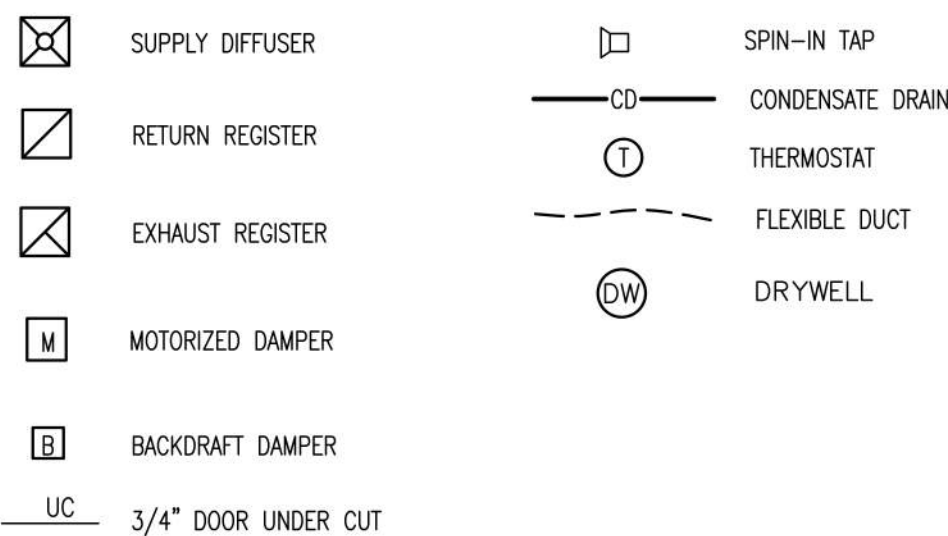
S2 Wall Section Detail
Scale - 1" = 1'



AHU CONDENSATE DRAIN DETAIL

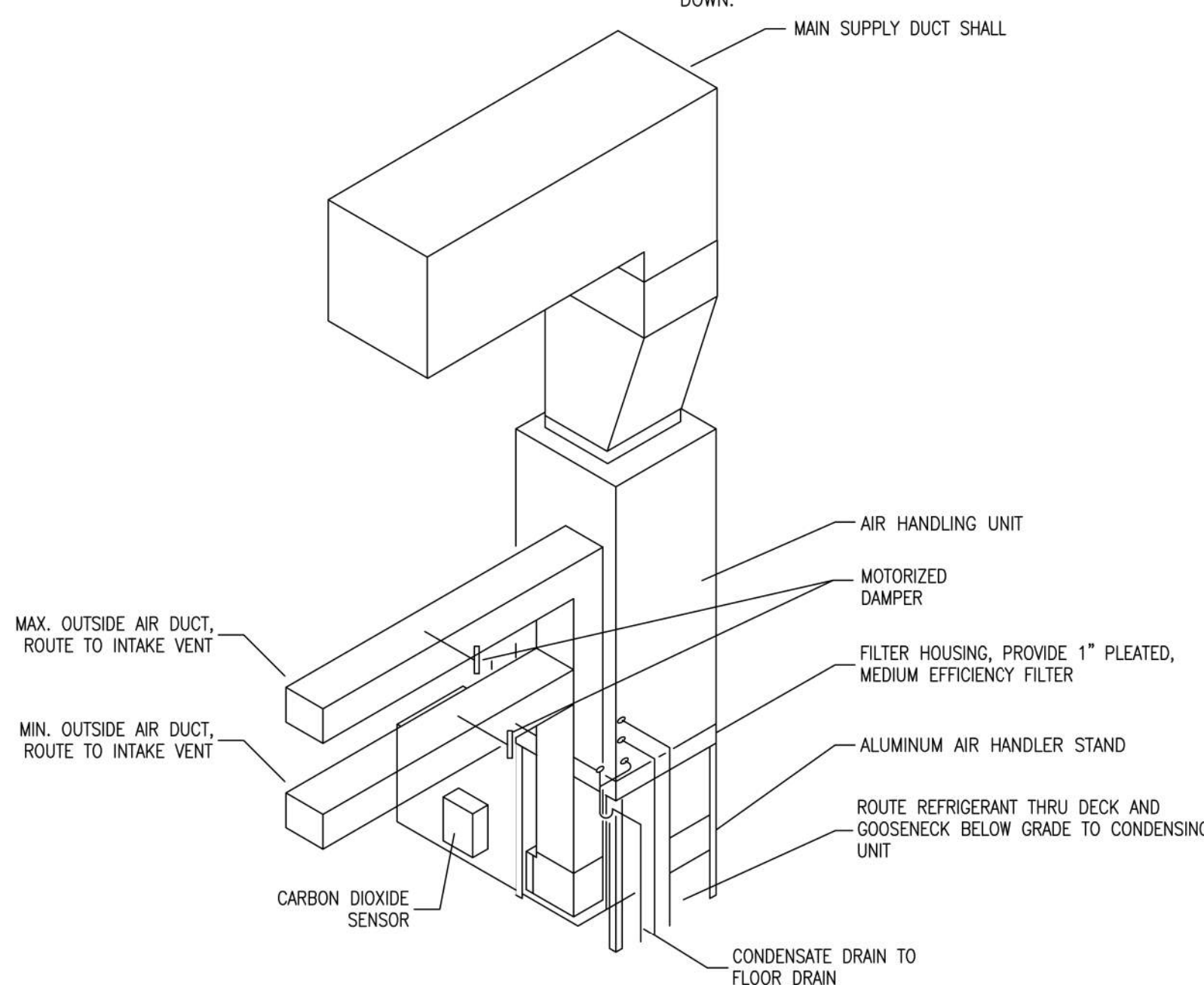
NOT TO SCALE

MECHANICAL LEGEND



CONDENSING UNIT MOUNTING DETAIL

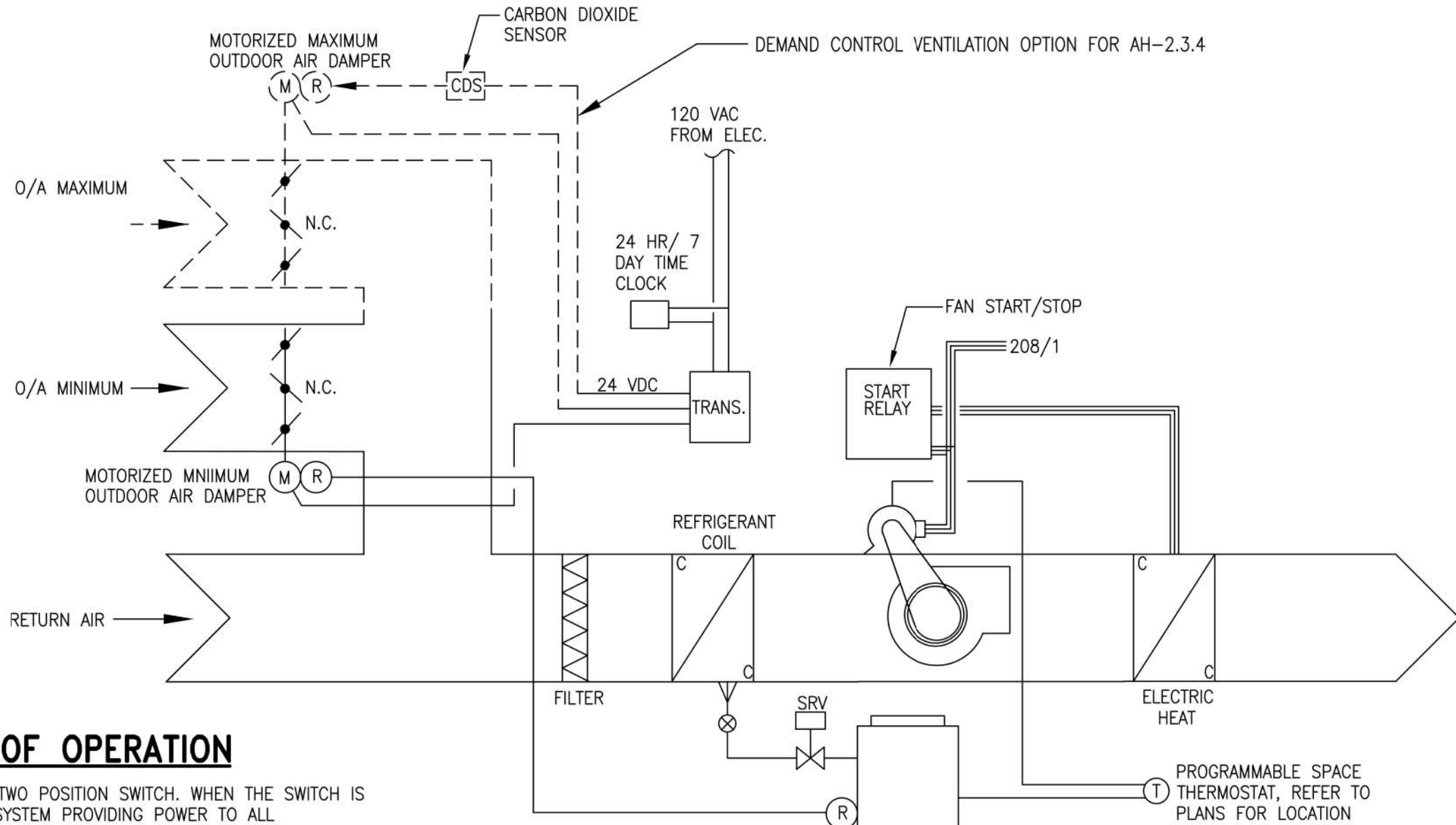
NOT TO SCALE



AHU-3 DETAIL

NOT TO SCALE

SPLIT SYSTEM COOLING AIR CONDITIONING UNIT SCHEDULE																							
PLAN MARK	NOMINAL TONS	MANUFACTURER – CARRIER		AIR FLOWS		FAN DATA				COOLING COIL				INDOOR UNIT ELECT. DATA				OUTDOOR UNIT ELECT. DATA			MIN. SYSTEM SEER		
		INDOOR UNIT	OUTDOOR UNIT	TOTAL CFM	OA CFM	EXT. SP.	TOT. SP.	HP	TYPE	DESIGN CONDITIONS				SEN. MBH	TOTAL MBH	HEAT KW	MCA	MOCP	VOLT/ PHASE	MCA		MOCP	VOLT/ PHASE
										EDB	EWB	LDB	LWB										
AHU–1/CU–1	5	FB4CNF–060	25ACC4–60	2000	200	0.40	–	3/4	D	79	65	56	54	41.0	55.9	10	53.8	60	208/1	27.5	40	208/1	14.3
AHU–2/CU–2	5	FB4CNF–060	25ACC4–60	2000	200/470	0.40	–	3/4	D	79	65	56	54	41.0	55.9	10	53.8	60	208/1	27.5	40	208/1	14.3
AHU–3/CU–3	5	FB4CNF–060	25ACC4–60	2000	200/470	0.40	–	3/4	D	79	65	56	54	41.0	55.9	10	53.8	60	208/1	27.5	40	208/1	14.3
AHU–4/CU–4	5	FB4CNF–060	25ACC4–60	2000	200/470	0.40	–	3/4	D	79	65	56	54	41.0	55.9	10	53.8	60	208/1	27.5	40	208/1	14.3
NOTES: 1. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING AND INSTALLATION. 2. SINGLE POINT POWER CONNECTION. 3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL DISCONNECT SWITCHES 4. REMOTE ACCESSIBLE WIFI COMPATIBLE ELECTRONIC 7–DAY PROGRAMMABLE THERMOSTAT 5. TIME DELAY RELAY 6. FILTER RACK WITH THROW AWAY FILTERS 7. FILTER DRIER 8. COMPRESSOR START ASSIST 9. HIGH AND LO PRESSURE SWITCHES 10. CRANKCASE HEATERS 11. SIZE REFRIGERANT LINES PER MANUFACTURER’S RECOMMENDATION FOR MINIMUM SYSTEM CAPACITY LOSS																							

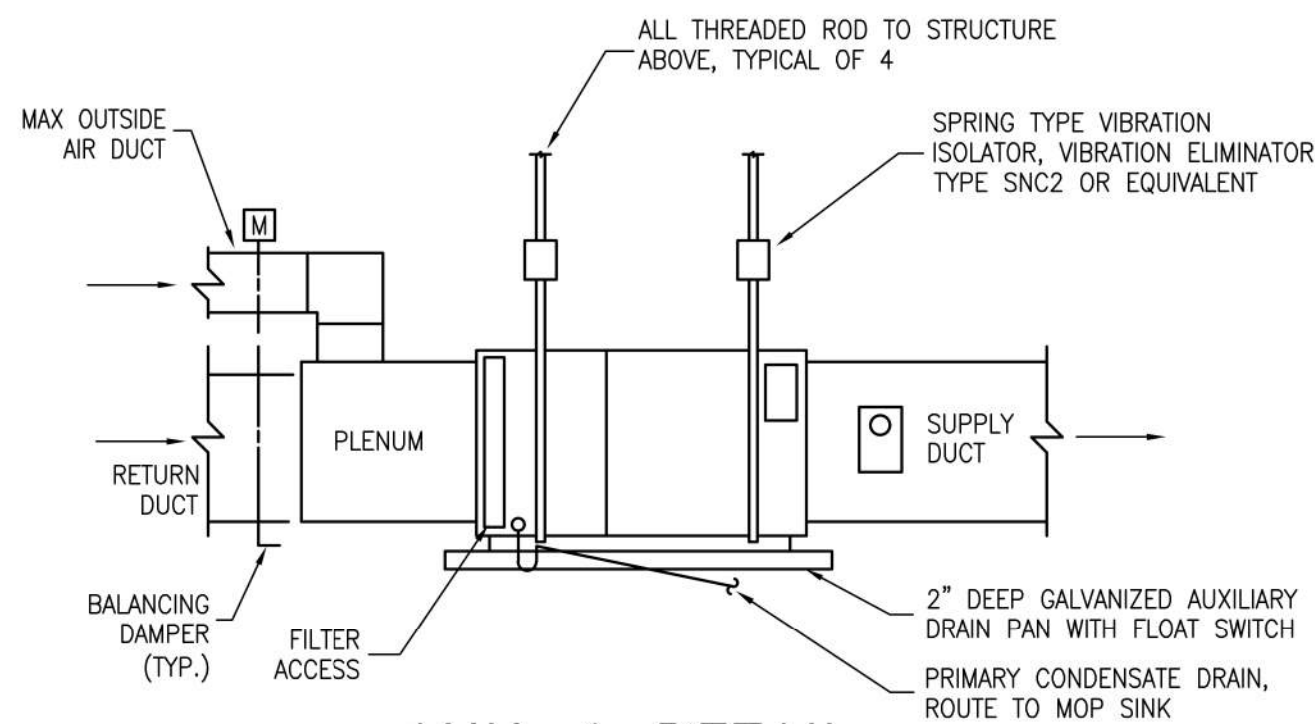


CONTROL SCHEMATIC - AHU

NOT TO SCALE

AHU-2 AND 3 SEQUENCE OF OPERATION

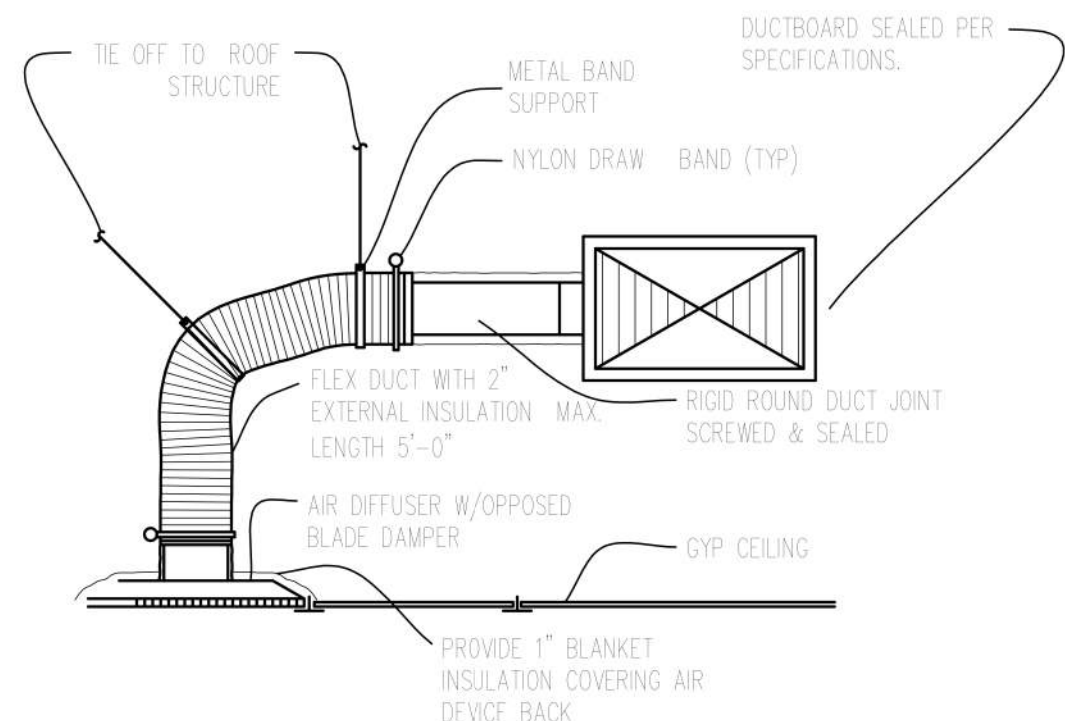
- SUPPLY FAN IS ENERGIZED BY A TWO POSITION SWITCH. WHEN THE SWITCH IS CLOSED IT SHALL ENERGIZE THE SYSTEM PROVIDING POWER TO ALL COMPONENTS AND LOW VOLTAGE CONTROL TO ALL CONTROL DEVICES, AND OPEN THE MINIMUM OUTSIDE AIR DAMPER.
- SYSTEM SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT DEVICE CONTROLLING SPACE TEMPERATURE. THE THERMOSTAT SHALL INCLUDE OFF-AUTO-COOLING-HEATING MODES AND TIME-DAY-WEEK SCHEDULING CAPABILITIES. THERMOSTAT SHALL BE SET TO "AUTO" MODE.
- WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE COMPRESSOR/S SHALL CYCLE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
- THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
- WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE ELECTRIC HEAT SHALL ENERGIZE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
- AN ALARM CONDITION (>1000 PPM) FROM THE CARBON DIOXIDE SENSOR SHALL RELAY A SIGNAL TO OPEN THE NORMALLY CLOSED MAXIMUM OUTSIDE AIR DAMPER. WHEN THE ALARM CONDITION CEASES (<800 PPM) THE MAXIMUM OUTSIDE AIR DAMPER SHALL CLOSE.
- THE SYSTEM SHALL IMPOSE A 30 SECOND TIME DELAY TO RESTART THE SUPPLY FAN, COMPRESSORS, AND CONDENSER FANS AFTER SYSTEM SHUT DOWN.



AHU-1 DETAIL

NOT TO SCALE

DESIGN CONDITIONS	
EXTERIOR DESIGN CONDITIONS	INTERIOR DESIGN CONDITIONS
SUMMER DRY/WET BULB 96F/77F	SUMMER 75F, +/- 3F
WINTER DRY BULB 29F	50% R.H. +/- 10%
	WINTER 72F

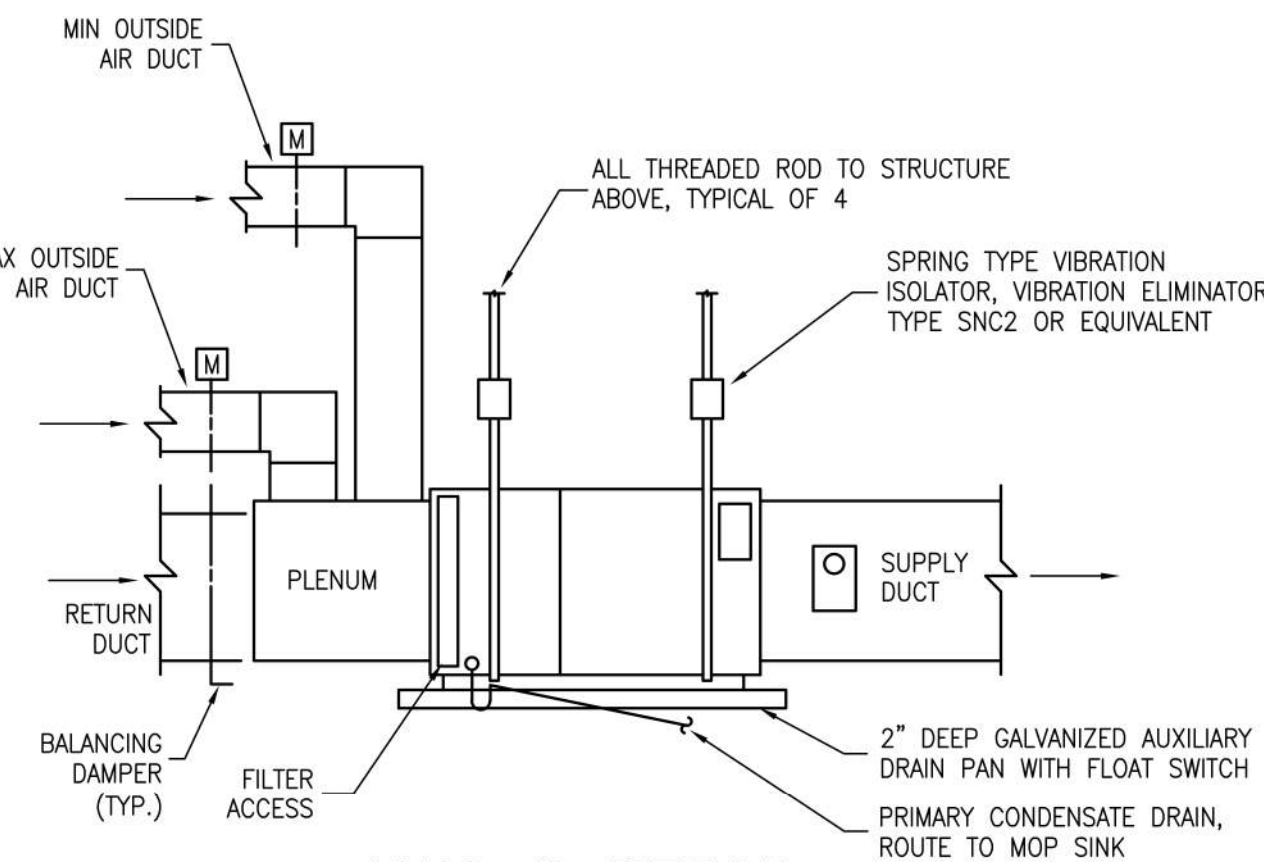


CEILING DIFFUSER DETAIL

NOT TO SCALE

FAN SCHEDULE											
PLAN MARK	BASIC OF DESIGN	TYPE	CFM	STATIC PRESS. IN. WG.	FAN RPM	MOTOR		VOLT/ PHASE	DRIVE TYPE	WALL OP'NG INCHES	FAN INTERLOCK
						RPM	WATTS				
EF-1	LOREN COOK GC-168	CEIL.	140	0.33	1095	1160	49.8	115/1	D	—	OCC SENSOR
EF-2	LOREN COOK GC-168	CEIL.	140	0.33	1095	1160	49.8	115/1	D	—	OCC SENSOR
EF-3	LOREN COOK GC-146	CEIL.	70	0.33	900	900	30.9	115/1	D	—	OCC SENSOR
EF-4	LOREN COOK GC-146	CEIL.	70	0.33	900	900	30.9	115/1	D	—	OCC SENSOR
EF-5	LOREN COOK GC-168	CEIL.	140	0.33	1095	1160	49.8	115/1	D	—	OCC SENSOR
EF-6	LOREN COOK GC-146	CEIL.	70	0.33	900	900	30.9	115/1	D	—	OCC SENSOR

NOTES: PROVIDE VIBRATION ISOLATOR KIT, BACK DRAFT DAMPER, SPEED CONTROLLER, DISCONNECT



AHU-2 DETAIL

NOT TO SCALE

GENERAL NOTES AND SPECIFICATIONS

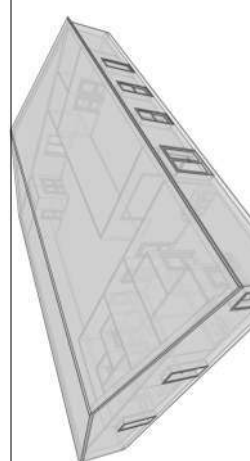
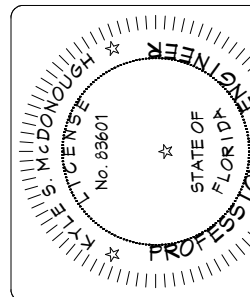
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE - MECHANICAL. ALL RETURN DUCTS SHALL BE RIGID, FIBERGLASS DUCT-BOARD, 1.5" THICK. ALL CONCEALED SUPPLY DUCTS SHALL BE SINGLE WALL, ROUND SHEET-METAL WITH 1.5" THICK EXTERNALLY WRAPPED BLANKET INSULATION. FLEXIBLE DUCTS SHALL BE R-6.5 UL LISTED CLASS 1 AND NOT EXCEED 10' IN LENGTH, EXPOSED SUPPLY DUCTS SINGLE WALL, ROUND SHEET-METAL TRUNKS AND RUN-OUTS, AS WELL AS WHERE DISTANCES TO DIFFUSER EXCEED 10'. AIR CONDITIONING UNITS FOR THE SPACE SHALL BE BY CARRIER OR ENGINEER APPROVED EQUAL. PROVIDE VIBRATION ISOLATION SUSPENSION FROM ROOF ASSEMBLY WHERE APPLICABLE, PROVIDE SECONDARY DRAIN PAN WITH FLOAT SWITCH INTERLOCKED WITH UNIT TO DE-ENERGIZE IN ALARM MODE. PROVIDE 1" THICK MEDIUM EFFICIENCY PLEATED FILTERS. PROVIDE NEW PROGRAMMABLE THERMOSTAT. PROVIDE 1 YEAR WARRANTY ON LABOR AND MATERIAL BY CONTRACTOR, AND MANUFACTURER'S WARRANTY ON ANY NEW EQUIPMENT.
- ANY FIELD CHANGES AS A RESULT OF VALUE ENGINEERING SHALL BE COMMUNICATED TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO COMMENCEMENT OF VALUE ENGINEERING WORK. ENGINEERING PLAN REVISIONS REQUIRED BY BUILDING INSPECTORS TO MATCH VALUE ENGINEERING CHANGES SHALL BE COMPENSATED TO THE ENGINEER AT A NEGOTIATED AMOUNT BY THE SUB-CONTRACTOR ENACTING THE VALUE ENGINEERING CHANGE.
- MECHANICAL CONTRACTOR SHALL PROVIDE TO ARCHITECT A COMPLETE TEST AND BALANCE REPORT, PERFORMED BY AN AABC OR NEBB CERTIFIED CONTRACTOR, UPON COMPLETION OF THE PROJECT.

DIFFUSER SCHEDULE

TYPE	SERVICE	CFM RANGE		MODULE SIZE	NECK 'N'	MODEL
		MIN	MAX			
A	SUPPLY—CEILING	0	140	24x24	6"	TITUS – TMS—I
		141	250	24x24	8"	TITUS – TMS—I
		251	450	24x24	10"	TITUS – TMS—I
		451	650	24x24	12"	TITUS – TMS—I
		651	900	24x24	14"	TITUS – TMS—I
		901	1200	24x24	15"	TITUS – TMS—I
B	RETURN – SIDEWALL	0	1550	–	20x20	TITUS 350FL
C	SUPPLY – SIDEWALL	0	65	–	6"	AIR CON. APL–RD
		66	125	–	8"	AIR CON. APL–RD
		126	195	–	10"	AIR CON. APL–RD
		196	295	–	12"	AIR CON. APL–RD
		296	425	–	14"	AIR CON. APL–RD
		426	750	–	16"	AIR CON. APL–RD
		751	950	–	18"	AIR CON. APL–RD
<u>NOTES:</u>						
1. DIFFUSER RUNOUT SIZE SHALL BE DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED ON DRAWINGS.						
2. COORDINATE COLOR OF DIFFUSERS WITH INTERIOR DESIGNER.						
3. PROVIDE OPPOSED BLADE VOLUME DAMPER INSTALLED ON BACK—SIDE OF SUPPLY/RETURN REGISTERS INSTALLED IN GYPSUM CEILINGS AND SIDEWALL GRILLES. PROVIDE STARTING COLLAR WITH BALANCING DAMPER AT FLEX DUCT CONNECTION ALL OTHER SUPPLY/RETURN REGISTERS/DIFFUSERS.						

Mechanical
Note & Details

Kyle McDonough
William Brown

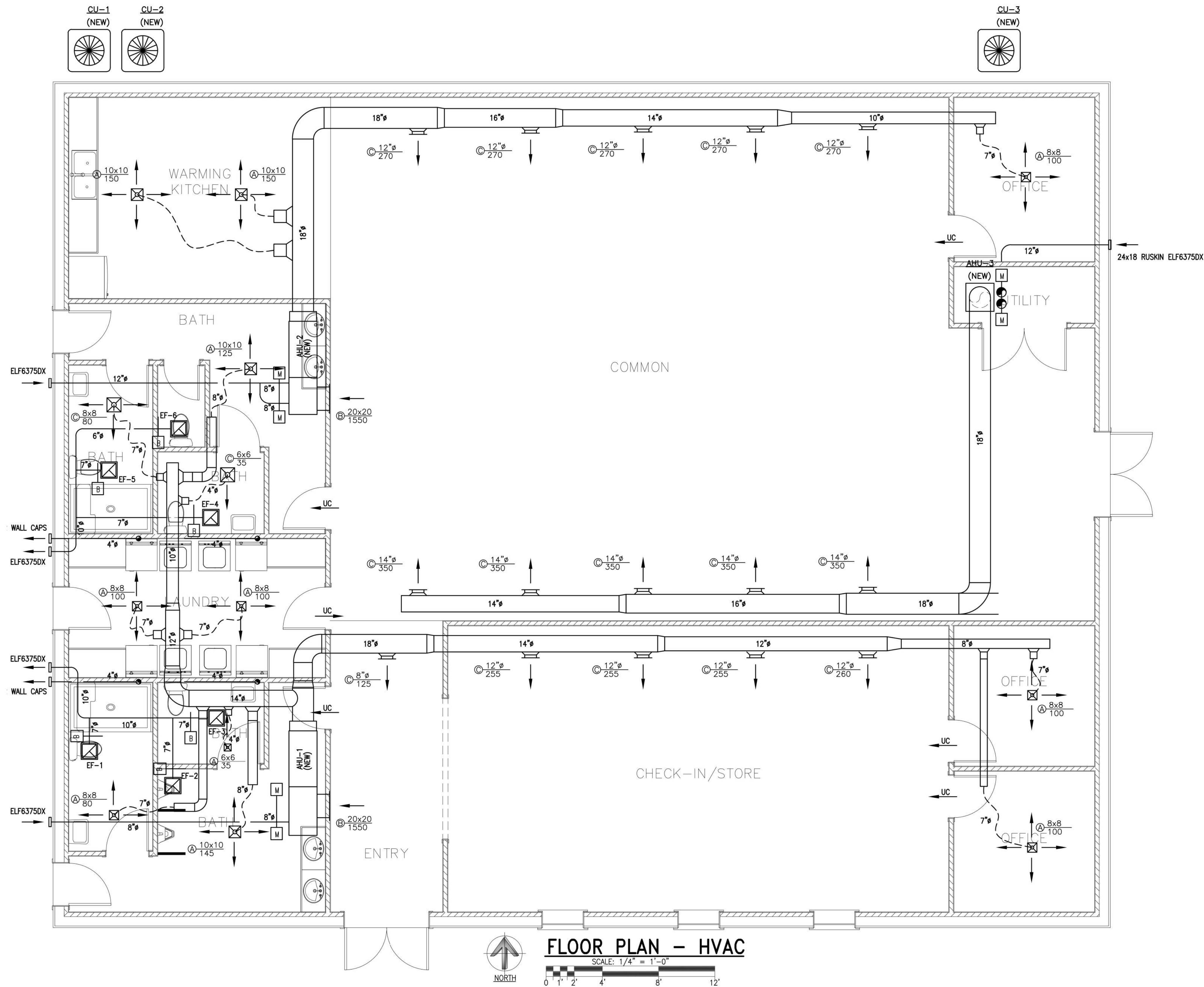


Construction of a New Commercial Building
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TBD, Lake City, FL 32025

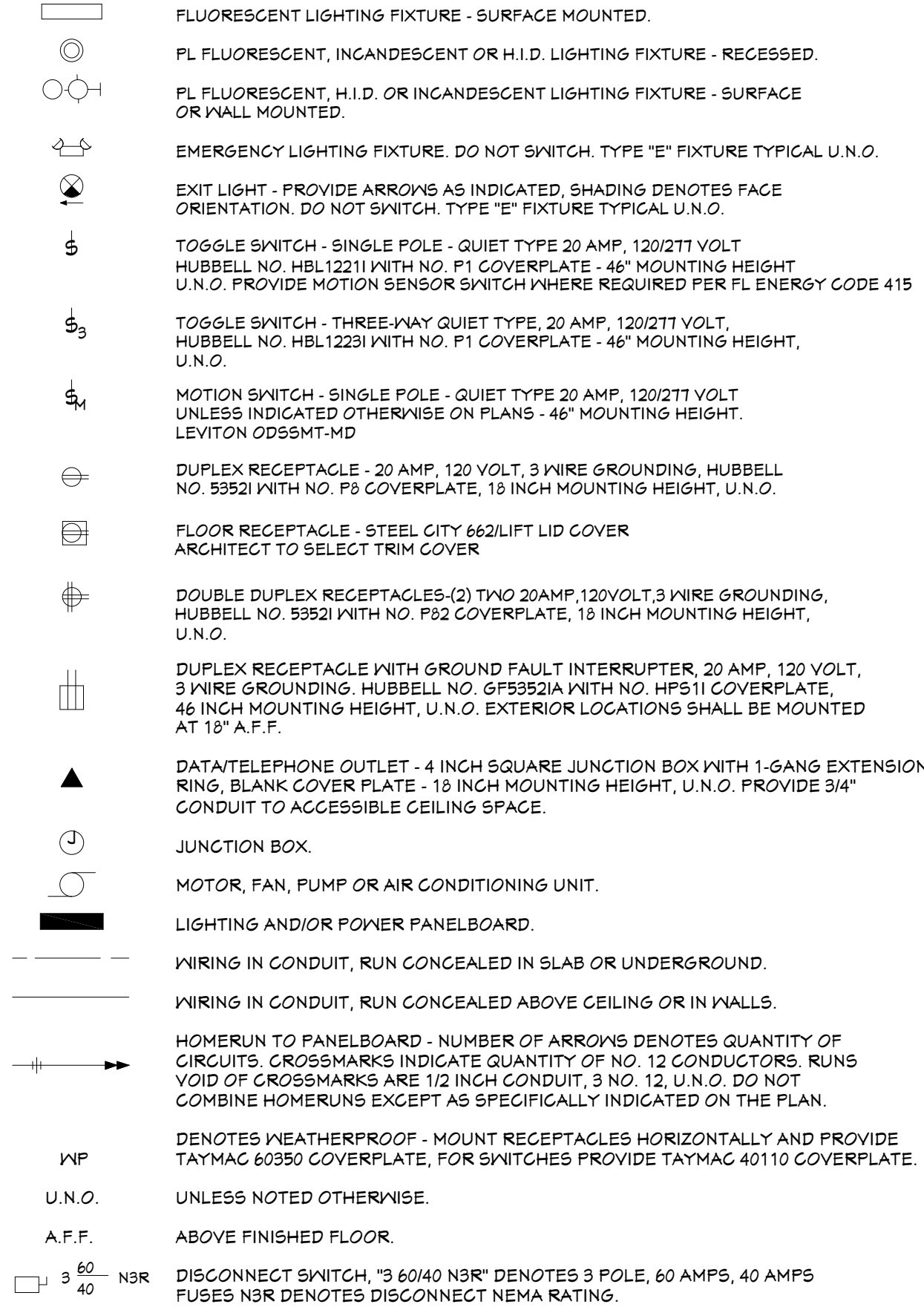
DATE: 03/23/23
DRAWN BY: MEB
CHECKED BY: MEB
2023-145

Sheet
M-1



VENTILATION TABLE												
AIR SYSTEM	SPACE CLASSIFICATION	FLOOR AREA A_z	OCCUPANT DENSITY #/1000 SF	TOTAL PEOPLE P_z	REQ'D O.A. CFM/PERSON R_p	REQ'D O.A. CFM/SF R_a	REQ'D PEOPLE O.A. CFM $P_z R_p$	REQ'D AREA O.A. CFM $A_z R_a$	REQ'D O.A. CFM $P_z R_p + A_z R_a$	PROVIDED O.A. CFM $P_z R_p + A_z R_a$	REQUIRED EXH. CFM	PROVIDED EXH. CFM
AH-1	CHECK IN/STORE	727 SF	15	11	7.5	.06	83	44	127	130	---	---
AH-1	STORE OFFICE 1	100 SF	5	1	5	.06	5	6	11	15	---	---
AH-1	STORE OFFICE 2	120 SF	5	1	5	.06	5	7	12	15	---	---
AH-1	MEN	298 SF	---	---	---	---	---	---	---	---	350	350
AH-1	LAUNDRY	180 SF	---	---	---	---	---	---	---	---	---	---
AH-1	WOMEN	299 SF	---	---	---	---	---	---	---	---	280	280
AH-3	WARMING KITCHEN	267 SF	5	3	5	.06	25	16	41	45	---	---
AH-2/3/4	COMMON ROOM	936 SF	120	113	5	.06	565	225	790	1350	---	---
AH-3	COMMON OFFICE	115 SF	5	1	5	.06	5	7	12	15	---	---
AH-1	ENTRY	166 SF	10	2	5	.06	5	10	15	15	---	---
NOTES: 1. OCCUPANT LOAD, CFM/PERSON AND EXHAUST REQUIRED TAKEN FROM 2020 FLORIDA BUILDING CODE - MECHANICAL												

ELECTRICAL LEGEND

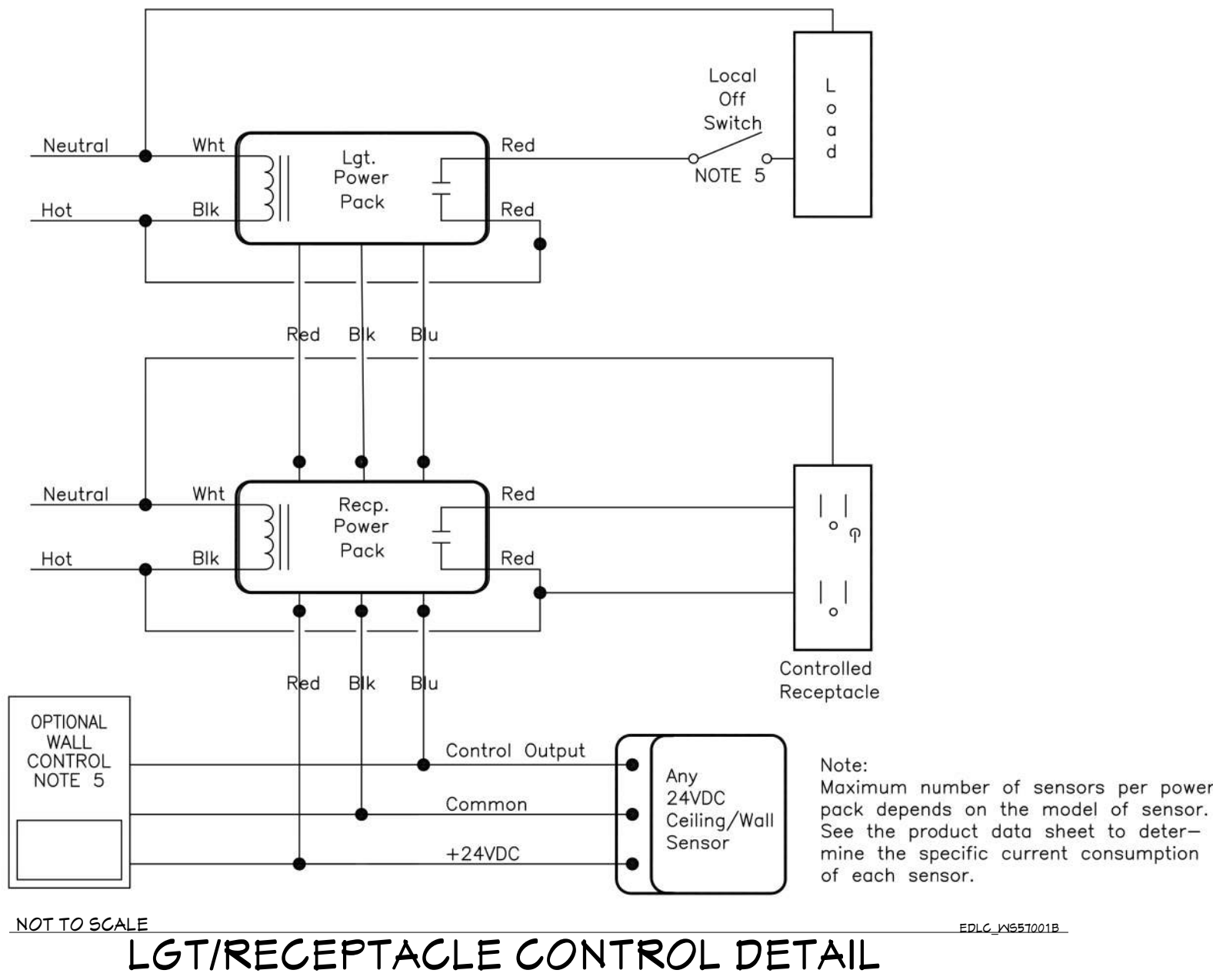


ELECTRICAL NOTES:

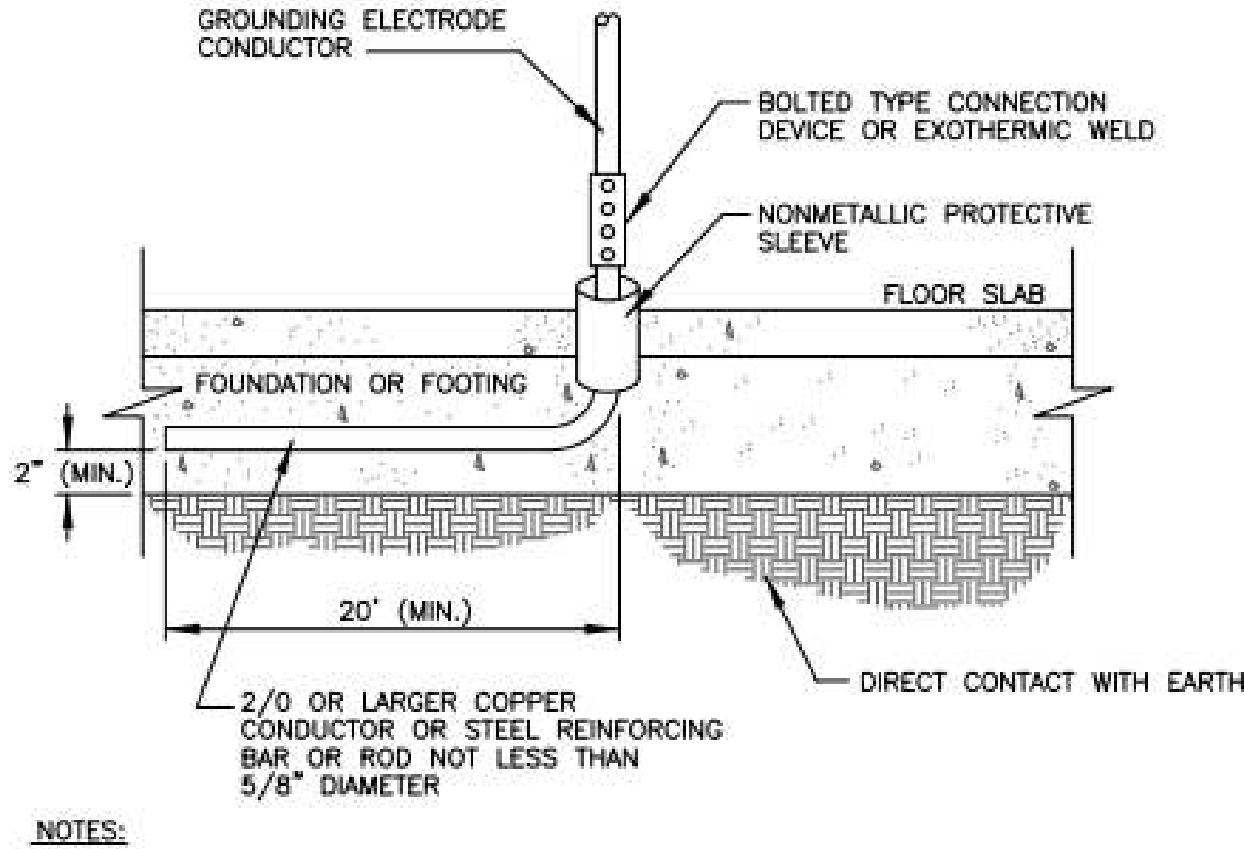
- ELECTRICAL SERVICE AND INSTALLATION SHALL CONFORM TO THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE STATE AND LOCAL CODES AND LOCAL UTILITY COMPANY REQUIREMENTS
- CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE SERVICE WITH THE UTILITY COMPANY PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS AND REQUIREMENTS OF TRANSFORMERS, POLES, SERVICE EQUIPMENT AND OBTAIN ALL NECESSARY APPROVALS FROM THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK. UTILITIES SHOWN ON DRAWINGS ARE TO BE USED AS A GUIDELINE ONLY AND MAY NOT NECESSARILY BE APPROVED. FINAL APPROVALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN TO DETERMINE ROUTES THAT WILL NOT INTERFERE WITH OTHER TRADES.
- CONNECT EXIT LIGHTS AND EMERGENCY BALLASTS OF FIXTURES DENOTED AS EMERGENCY TO UNSWITCHED LIGHTING CIRCUIT
- ALL LIGHT FIXTURES SHALL BE MOUNTED AS CLOSE TO ADJACENT DOOR FRAME AS POSSIBLE
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. REFER TO ARCHITECTURAL, MECHANICAL AND CIVIL DRAWINGS IN ORDER TO BE AWARE OF CONDITIONS AFFECTING ELECTRICAL WORK.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT SUBMITTALS PRIOR TO ROUGH IN FOR EXACT LOCATIONS, CIRCUIT SIZES, AND BREAKER REQUIREMENTS. NOTIFY ARCHITECT OF ANY CHANGES TO CONTRACT PRICE IF WIRE SIZE INCREASES.
- MECHANICAL CONTRACTOR TO PROVIDE BATH FANS AND RELAYS TO INTERLOCK AHU'S.
- ALL CONDUIT TO BE SUPPORTED INDEPENDANT FROM CEILING GRID
- ALL LIGHT SWITCHES SHALL BE INSTALLED PER FLORIDA ENERGY CODES. PROVIDE OCCUPANCY SENSORS OR DUAL SWITCHING AS REQUIRED.

GENERAL NOTES:

- THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK AS INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE EOR AS SOON AS POSSIBLE; FIELD ALLOCATED DECISIONS ARE NOT TO BE PERFORMED WITHOUT EOR APPROVAL TO ADDRESS THESE ISSUES.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND FAMILIARIZE HIMSELF/HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL & COMMUNICATIONS INSTALLATION. IT IS CONTRACTORS RESPONSIBILITY TO MAKE PROVISIONS TO THE COST THEREOF.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODE/JORDINANCE AUTHORITYATIVE JURISDICTION & THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. THE SPECIFICATION, CODES & STANDARDS LISTED ARE UTILIZED IN THIS PROJECT: NFPA-70, NFPA-101, UL, NEMA, ANSI, FED. SPEC., IPCEA, IEEE, OSHA.
- DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO LAYOUT PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNERS REPRESENTATIVE/CONSULTANT.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

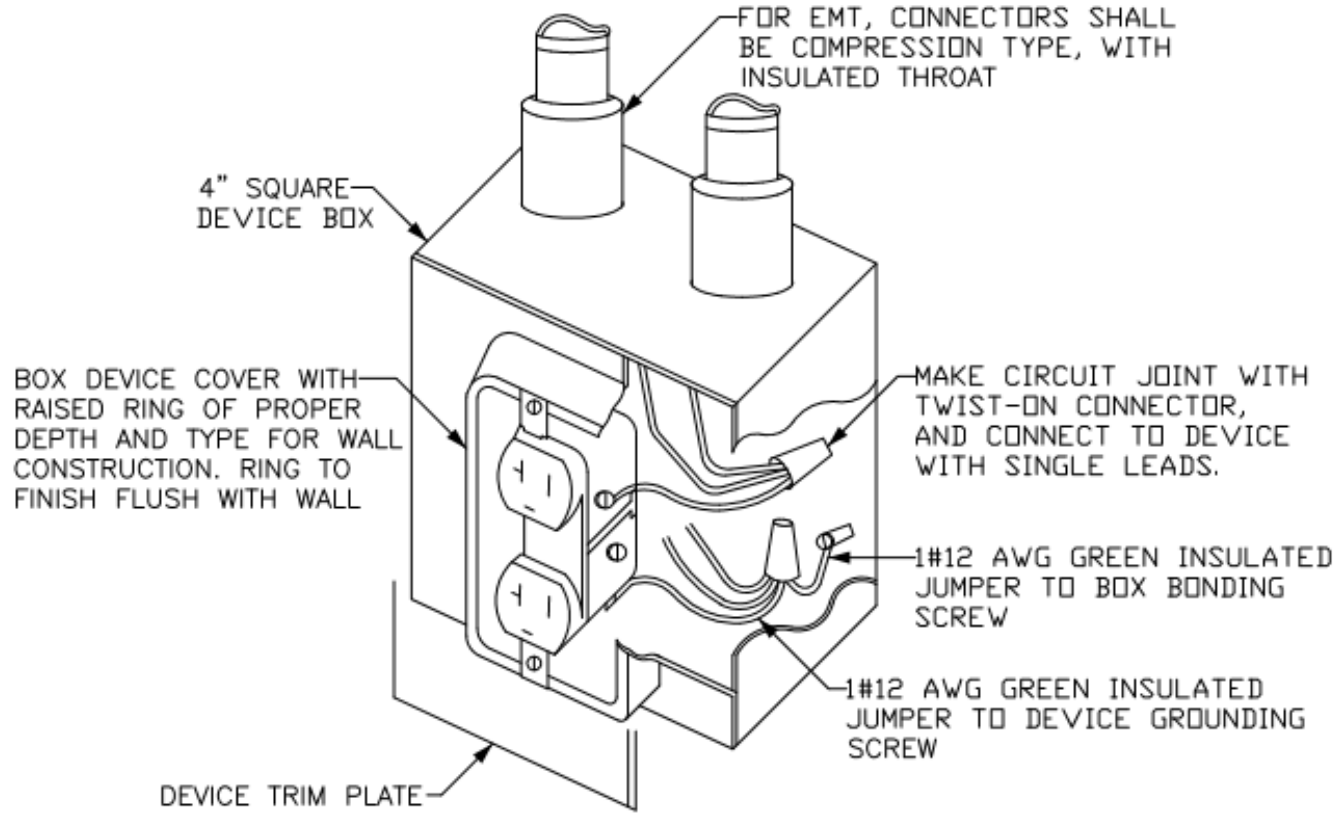


GROUNDING DETAIL



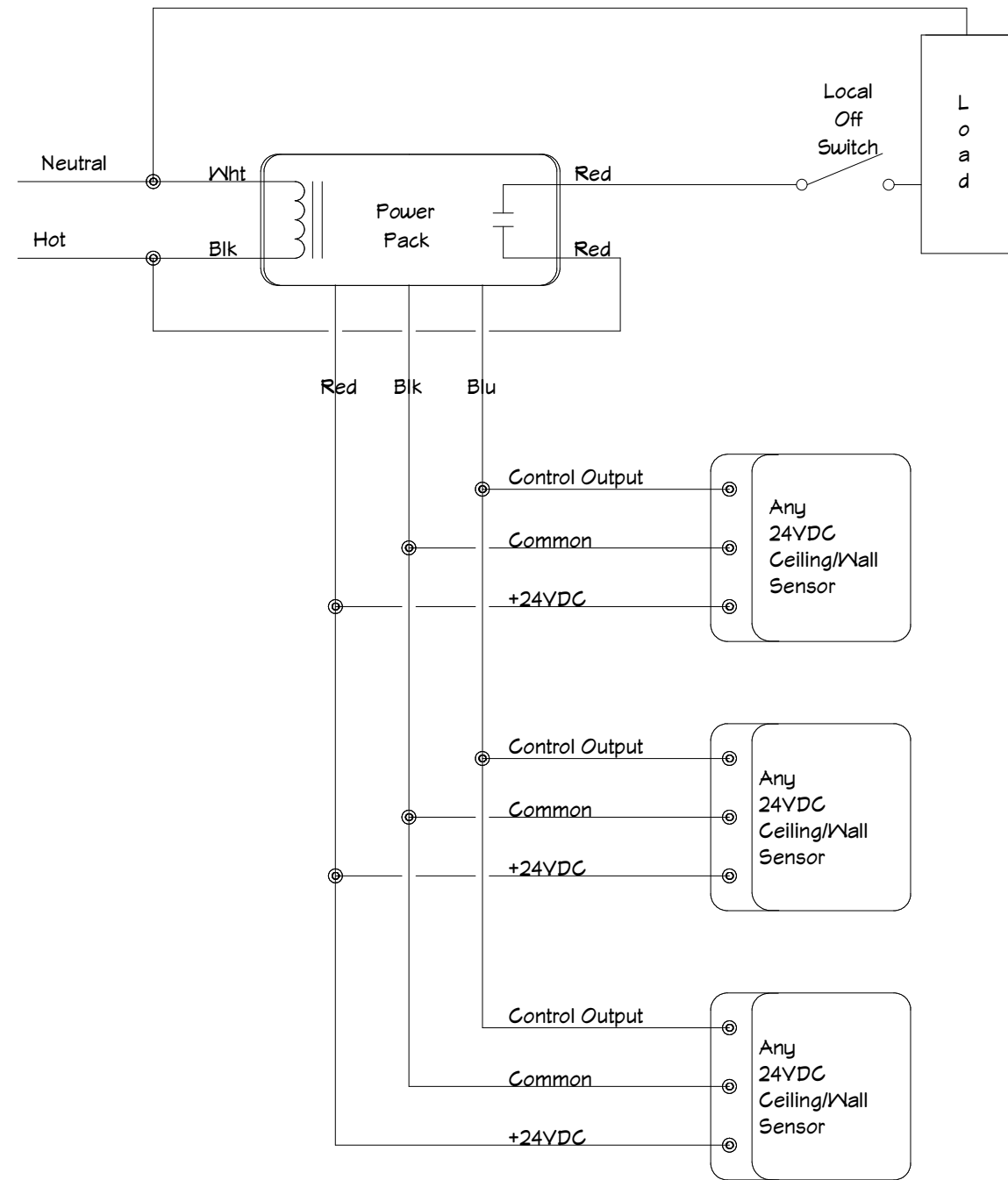
NOTES:

- SHOULD THIS PIECE OF REBAR OR COPPER ROD BE LEFT OUT OF THE SLAB OR FOOTER, A SUITABLE SUBSTITUTE GROUND CONSISTING OF A CONDUCTOR SIZED PER N.E.C. 250-94, (BARE COPPER) ENCIRCLING THE ENTIRE BUILDING WILL BE INSTALLED 30" BELOW FINISHED GRADE AND AT NO ADDITIONAL COST TO THE FACILITY OWNER.
- A BONDING POINT MUST BE MADE AVAILABLE FOR OTHER EQUIPMENT WHICH REQUIRES GROUNDING ACCORDING TO N.E.C. SECTION 250-70(b)



TYPICAL DUPLEX RECEPTACLE INSTALLATION

NOT TO SCALE



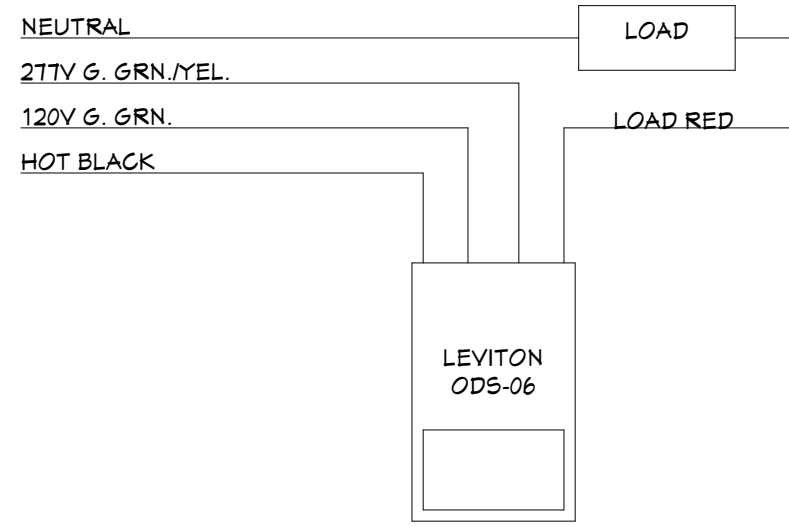
Note: Maximum number of sensors per power pack depends on the model of sensor. See the product data sheet to determine the specific current consumption of each sensor.

NOT TO SCALE

CEILING LIGHTING CONTROL DETAIL

NOTES:

- THIS DIAGRAM AND ALL PART NUMBERS ARE BASED ON "MATTSTOPPER" PRODUCTS.
- PROVIDE SENSORS IN ALL ROOMS AS REQUIRED BY FBC 13-415.1



OCCUPANCY DETECTOR WIRING DIAGRAM

NOTES:

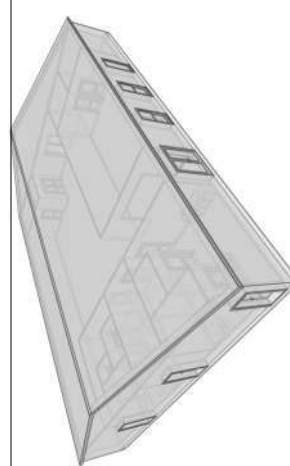
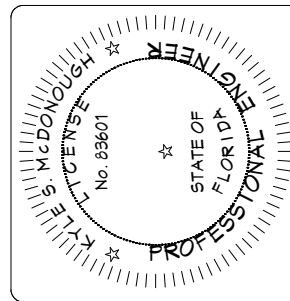
- THIS DIAGRAM AND ALL PART NUMBERS ARE BASED ON "LEVITON" PRODUCTS.
- PROVIDE SENSORS IN ALL ROOMS AS REQUIRED BY FBC 13-415.1

NOT TO SCALE

LIGHTING CONTROL DETAIL

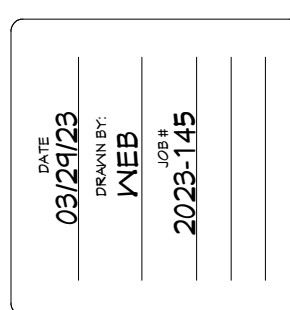


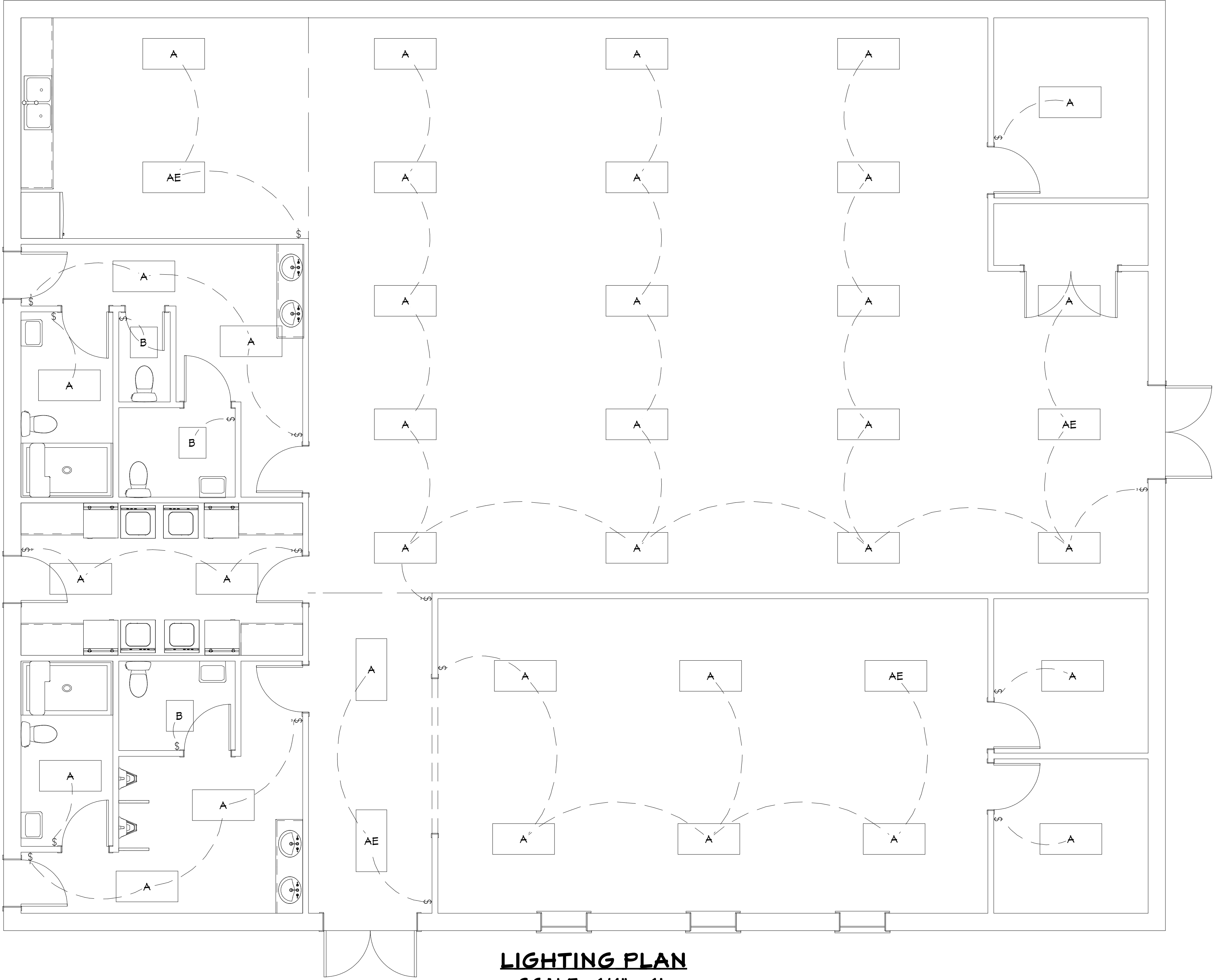
Electrical Notes & General Details



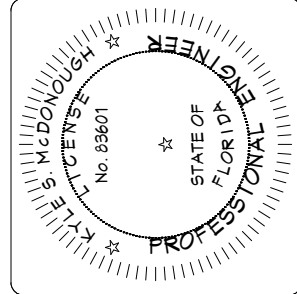
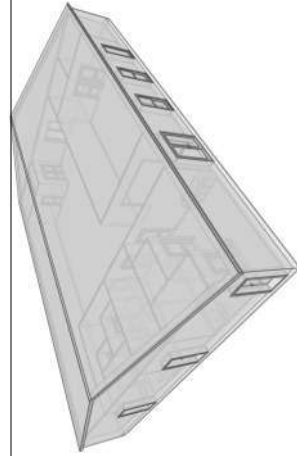
Construction of a New Commercial Building
Dreamin & Driftn

TBD, Lake City, FL, 30255





Luminaire Schedule						
Symbol	Qty	Label	Description	LLF	Luminaire Lumens	Luminaire Watts
		A	COOPER LTG: 24FPSL2SCT3 (3500K-HI OUTPUT)	0.950	6249	60.5
		AE	COOPER LTG: 24FPSL2SCT3-EL14W (3500K-HI OUTPUT)	0.950	6249	60.5
		B	COOPER LTG: 22FPSL2SCT3 (3500K-MID OUTPUT)	0.950	2694	24.1
		BE	COOPER LTG: 22FPSL2SCT3-EL14W (3500K-MID OUTPUT)	0.950	2694	24.1
		D1	COOPER LTG: PR6FS12D010 PR6M12WD8FSMW(2000Lm3500K)	0.950	2674	20.4
		D1E	COOPER LTG: PR6FS12D010REM14 PR6M12WD8FSMW (2000Lm3500K)	0.950	2674	20.4
		D2	COOPER LTG: PR6FS24D010 PR6M24WD8FSMW (3000Lm3500K)	0.950	3433	26.1
		D2E	COOPER LTG: PR6FS24D010REM14 PR6M24WD8FSMW(3000Lm3500K)	0.950	3433	26.1
		F1	COOPER LTG: 4SNLED-LD5-44SL-LW-UNV-L835-CD1-U	0.950	4589	38.7
		F1E	COOPER LTG: 4SNLED-LD5-44SL-LW-UNV-EL14W-L835-CD1-U-AYCCHAINSET	0.950	4589	38.7
		G1E	COOPER LTG: 4SWLED-40SL-LW-UNV-EL14W-L835-CD1-SVPD3-U	0.950	3936	37.9
		S4	COOPER LIGHTING: PRV-C40-D-UNV-T4 (25FT ABOVE GRADE CONCRETE POLE)	0.912	17087	131
		S5B	COOPER LIGHTING: PRV-C40-D-UNV-T5 (25FT ABOVE GRADE CONCRETE POLE)	0.912	18264	131
		LCP	GREENGATE: CK4A-SSRCNO WITH GDS-6TSB-W CONTROL STATION			



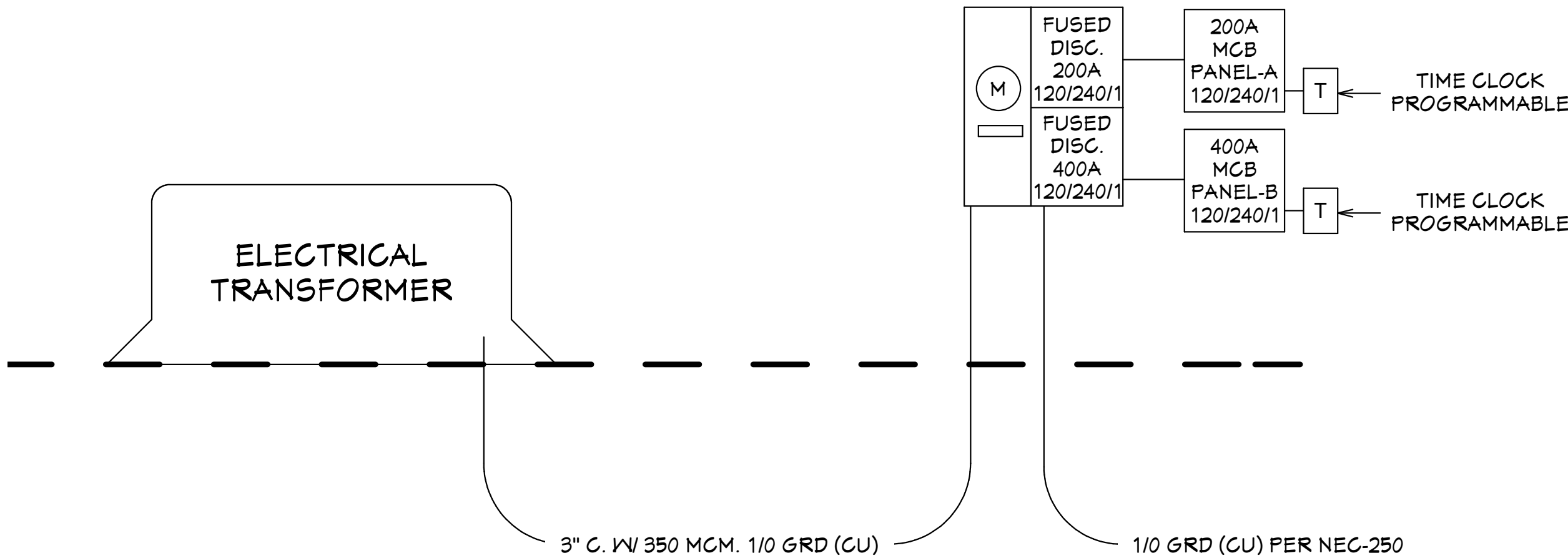
Kyle McDonough
William Brown

Lighting Plan



LOAD CALCULATIONS

QTY	DESC.	UNIT	EXT. KW
4500	LIGHTING SQUARE FOOTAGE (ALLOWANCED)	2VA	11,250
45	RECEPTACLES (ALLOWANCED)	180VA	8,100
4	RECEPTACLES (DEDICATED)	180VA	900
10	GFCI RECEPTACLES (ALLOWANCED)	180VA	1,800
1	WH-1	1.8KVA	1800
4	WASHER	1.8KVA	7200
4	DRYER	7.2KVA	28800
1	PARKING LOT LIGHTING (ALLOWANCED)	4.8KVA	4800
3	AHU/CU	19.5KVA	58,536
	25% OF LARGEST MOTOR (ALLOWANCED)	1.7KVA	1650
TOTAL 240/1 LOADS		124,836 VA	
TOTAL 240/1 AMPS		520 AMPS	
TOTAL AMPS		520	

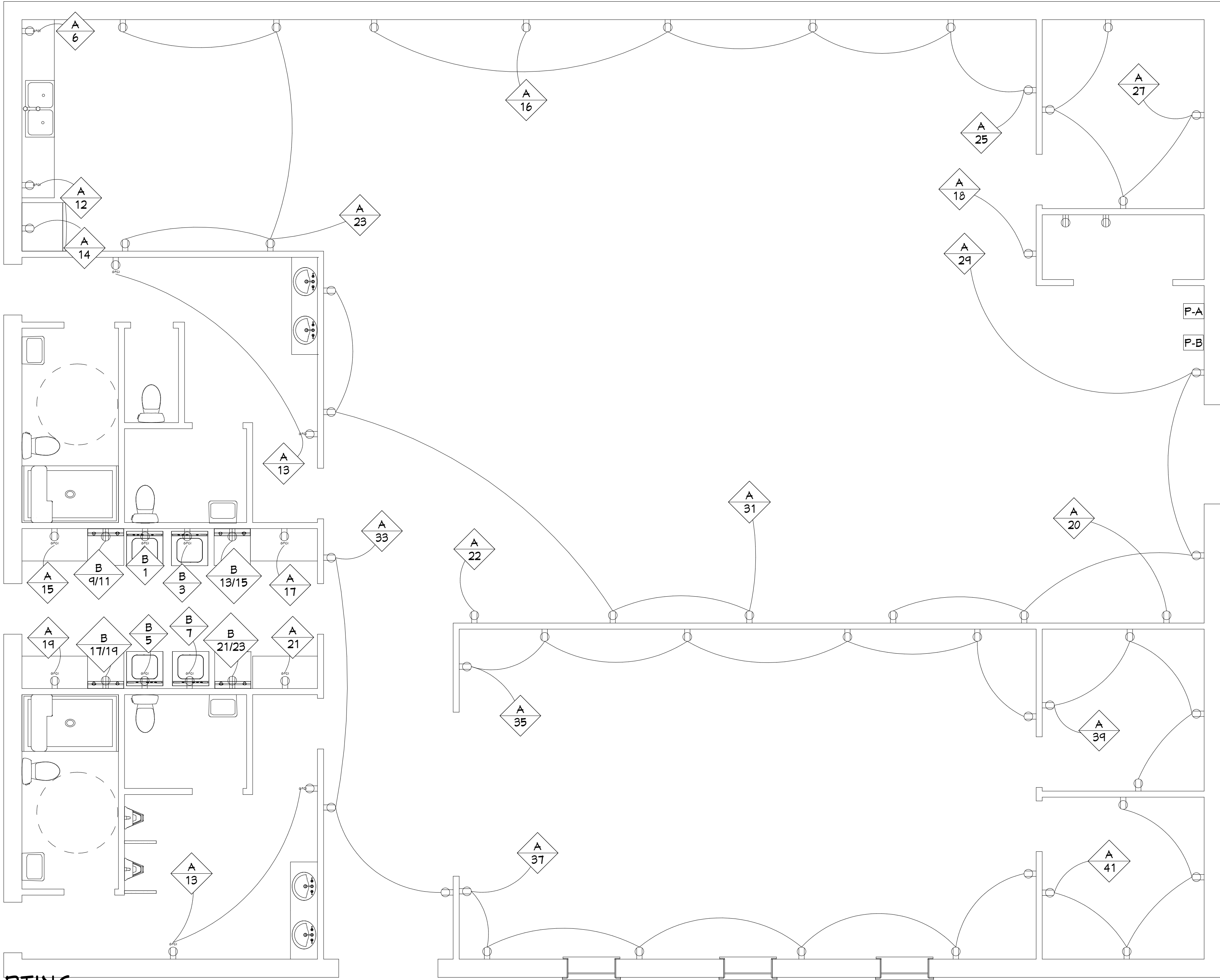


ELECTRICAL RISER PLAN

SCALE - NO SCALE

POWER RISER NOTES:

1. PROVIDE NEW ELECTRICAL PANELS AND FEEDERS AS SHOWN
2. COORDINATE METER AND SERVICE WITH UTILITY AUTHORITY PRIOR TO STARTING
3. PROVIDE 600A MAIN SERVICE W/ (1) 200A & (1) 400A FUSED PULLS FOR PANELS
4. ALL WORK PERFORMED TO COMPLY WITH LATEST NEC & LOCAL GOVERNING CODES



POWER PLAN

SCALE - 1/4" = 1'

SCHEDULE OF BRANCH CIRCUIT PANEL "A"

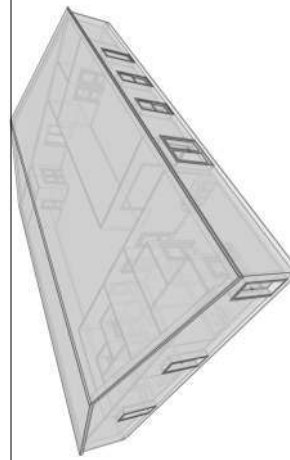
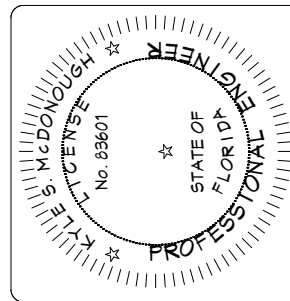
SCHEDULE OF BRANCH CIRCUIT PANEL "A"														
MAIN: 200 MLO: 200 MCB: NO SPEC: NEW MOUNTING: SURFACE										VOLTAGE: 120/240V, 3Ø 3W GRND BUS: YES LOCATION: TESTING ROOM AIC SYMM: 10,000 FED FROM METER				
DESCRIPTION	WIRE	GND	COND.	TRIP	CKT.	KVA	NOTES	KVA	CKT.	TRIP	COND.	GND	WIRE	DESCRIPTION
LIGHTING	#12	#12	1/2"	20	1	2.4		2.4	2	20	1/2"	#12	#12	PARKING LIGHTING
LIGHTING	#12	#12	1/2"	20	3	2.4		2.4	4	20	1/2"	#12	#12	PARKING LIGHTING
LIGHTING	#12	#12	1/2"	20	5	2.4		2.4	6	20	1/2"	#12	#12	KITCHEN GFCI
LIGHTING	#12	#12	1/2"	20	7	2.4		2.4	8	20	1/2"	#12	#12	KITCHEN GFCI
LIGHTING	#12	#12	1/2"	20	9	2.4		2.4	10	20	1/2"	#12	#12	KITCHEN GFCI
LIGHTING	#12	#12	1/2"	20	11	2.4		2.4	12	20	1/2"	#12	#12	KITCHEN GFCI
BATHROOM GFCI	#12	#12	1/2"	20	13	2.4		2.4	14	20	1/2"	#12	#12	REFRIGERATOR
LAUNDRY GFCI	#12	#12	1/2"	20	15	2.4		2.4	16	20	1/2"	#12	#12	RECEPTACLE (DEDICATED)
LAUNDRY GFCI	#12	#12	1/2"	20	17	2.4		2.4	18	20	1/2"	#12	#12	RECEPTACLE (DEDICATED)
LAUNDRY GFCI	#12	#12	1/2"	20	19	2.4		2.4	20	20	1/2"	#12	#12	RECEPTACLE (DEDICATED)
LAUNDRY GFCI	#12	#12	1/2"	20	21	2.4		2.4	22	20	1/2"	#12	#12	RECEPTACLE (DEDICATED)
RECEPTACLES	#12	#12	1/2"	20	23	2.4			24					
RECEPTACLES	#12	#12	1/2"	20	25	2.4			26					
RECEPTACLES	#12	#12	1/2"	20	27	2.4			28					
RECEPTACLES	#12	#12	1/2"	20	29	2.4			30					
RECEPTACLES	#12	#12	1/2"	20	31	2.4			32					
RECEPTACLES	#12	#12	1/2"	20	33	2.4			34					
RECEPTACLES	#12	#12	1/2"	20	35	2.4			36					
RECEPTACLES	#12	#12	1/2"	20	37	2.4			38					
RECEPTACLES	#12	#12	1/2"	20	39	2.4			40					
RECEPTACLES	#12	#12	1/2"	20	41	2.4			42					
TOTAL KVA									64.8					

SCHEDULE OF BRANCH CIRCUIT PANEL "B"

SCHEDULE OF BRANCH CIRCUIT PANEL "B"														
MAIN: 400 MLO: 400 MCB: NO SPEC: NEW MOUNTING: SURFACE								VOLTAGE: 120/240V, 3Ø 3W GRND BUS: YES LOCATION: UTILITY ROOM AIC SYMM: 22,000 FED FROM METER						
DESCRIPTION	WIRE	GND	COND.	TRIP	CKT.	KVA	NOTES	KVA	CKT.	TRIP	COND.	GND	WIRE	DESCRIPTION
WASHER	#12	#12	1/2"	15	1	1.8		12.9	2	60	3/4"	#8	#4	AHU-1
WASHER	#12	#12	1/2"	15	3	1.8			4					
WASHER	#12	#12	1/2"	15	5	1.8		6.6	6	40	3/4"	#8	#8	CU-1
WASHER	#12	#12	1/2"	15	7	1.8			8					
DRYER	#10	#10	1/2"	30	9	7.2		12.9	10	60	3/4"	#8	#4	AHU-2
					11				12					
DRYER	#10	#10	1/2"	30	13	7.2		6.6	14	40	3/4"	#8	#8	CU-2
					15				16					
DRYER	#10	#10	1/2"	30	17	7.2		12.9	18	60	3/4"	#8	#4	AHU-3
					19				20					
DRYER	#10	#10	1/2"	30	21	7.2		6.6	22	40	3/4"	#8	#8	CU-3
					23				24					
WH-1	#12	#12	1/2"	20	25	2.4			26					
					27				28					
					29				30					
					31				32					
					33				34					
				20	35				36					
				20	37				38					
					39				40					
					41				42					
TOTAL (NEW) KVA									154.9					

Power Plan

Kyle McDonough
William Brown



Construction of a New Commercial Building
Dreamin & Driftin
TBD, Lake City, FL 32025

DATE: 09/29/23
DRAWN BY: WEB
CHECKED BY: WEB
2023-145

E-3

PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	MANUFACTURER	WASTE	CW	HW
WC-1	<u>WATER CLOSET</u> 16.5" HEIGHT, ELONGATED TOILET. VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, FLUSH TANK TYPE, LOW CONSUMPTION 1.28 GPF. SEAT INSTALLED MIN. 18" FROM FINISH FLOOR TO TOP OF SEAT SEAT: EXTRA HEAVY DUTY PLASTIC, OPEN FRONT SEAT LESS COVER WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST. ACCESSORIES: HEAVY DUTY WAX BOWL RING, WAX GASKET FOR SETTING ANY FLOOR TYPE WATER CLOSET BOWL.	AMERICAN STANDARD 2835.128 BEMIS CHURCH OLSONITE OATEY 31190	3"	1/2"	
L-1	<u>LAVATORY, COUNTERTOP</u> COUNTERTOP LAVATORY, VITREOUS CHINA, FAUCET HOLES ON 4" CENTERS. FAUCET: 4" CENTERSET CAST BRASS FAUCET, SINGLE LEVER HOT AND COLD WATER MIXING TEMPERED WATER: PROVIDE WATER TEMPERATURE LIMITING DEVICE (THERMOSTATIC MIXING VALVE) THAT CONFORMS TO ASSE 1070 PER FPC 416.5 STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS. GRID DRAIN WITH OFFSET TAILPIECE AND CHROME PLATED P-TRAP SUPPLY LAV-GUARD INSULATION KIT.	AMERICAN STANDARD 3004.207 DELTA FAUCETS 201LF-HGMHDF WATTS MMV MCGUIRE MANUFACTURING TRUEBRO #102G	1-1/4"	1/2"	1/2"
L-2	<u>LAVATORY, NON-ADA</u> AQUALYN VITREOUS CHINA, OVAL DROP-IN, FAUCET HOLES ON 4" CENTERS FAUCET: 4" CENTERSET CAST BRASS FAUCET, GOOSENECK SPOUT WITH 1/4 TURN WASHERLESS CARTRIDGES. WRIST BLADE LEVER HANDLES. TEMPERED WATER: PROVIDE WATER TEMPERATURE LIMITING DEVICE (THERMOSTATIC MIXING VALVE) THAT CONFORMS TO ASSE 1070 PER FPC 416.5 STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS. GRID DRAIN TAILPIECE AND CHROME PLATED P-TRAP SUPPLY LAV-GUARD INSULATION KIT	AMERICAN STANDARD #0476.028 AMERICAN STANDARD #7401.172H WATTS MMV MCGUIRE MANUFACTURING TRUEBRO #102G	1-1/4"	1/2"	1/2"
SK-1	<u>KITCHEN SINK</u> ENAMELED STEEL SINK, DOUBLE BOWL DROP-IN SINK FAUCET: 1.5 GPM FAUCET, SINGLE LEVER HOT AND COLD WATER MIXING, WITH SPRAYER DRAIN: BASKET STRAINER STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOPS, PVC P-TRAP	AMERICAN STANDARD 7144.804 DELTA FAUCETS 400LF-HDF AMERICAN STANDARD 4331.013 MCGUIRE, CS & B	1-1/4"	1/2"	1/2"
SH-1	<u>ADA SHOWER</u> ACCESSIBLE SMOOTH TILE ACRYLYX 60 IN. X 34 IN. X 74.9 IN. 1-PIECE ADA SHOWER STALL W/ SEAT AND GRAB BARS IN WHITE. PRESSURE BALANCING VALVE WITH TRIM PACKAGE.	AQUATIC 1603BFST DELTA R10000-UNWS W/T113H232	2"	1/2"	1/2"
SH-2	<u>SHOWER</u> STORE+ 30 IN. X 60 IN. SINGLE THRESHOLD LEFT-HAND SHOWER BASE WITH SHOWER WALLS AND 10-PIECE ACCESSORY KIT IN WHITE PRESSURE BALANCING VALVE WITH TRIM PACKAGE	STERLING 72171710-0, 72475700-0, 72332700-0, 88028700-0 DELTA R10000-UNWS W/T113H232	2"	1/2"	1/2"
IM	<u>ICE MAKER BOX</u> BOX MADE OF 20 GAUGE STEEL,FACEPLATE MADE OF 28 GAUGE STEEL,NAIL SUPPORT BRACKETS. SCREW-ON FACEPLATE FRAME, VALVES COMPLY WITH REQUIREMENTS OF NSF STANDARD 61, SECTION 9, VALVES MEET ASME A112.18.1, WATER HAMMER ARRESTOR COMPLIES WITH ASSE STANDARD 1010	OATEY 39140	-	1/2"	-
UR-1	<u>URINAL</u> MAYBROOK 1.0 GPF WASHOUT ACTION, VITREOUS CHINA, WALL MOUNTED, FLUSH VALVE, MOUNT AT ADA HEIGHT (FRONT RIM AT 17" FROM FINISHED FLOOR). LOW-CONSUMPTION. FLUSH VALVE: CHROME PLATED BRASS, AUTOMATIC BATTERY POWERED, 1.0 GPF, ADJUSTABLE TAILPIECE, HIGH BACK PRESSURE VACUUM BREAKER FLUSH CONNECTION.	AMERICAN STANDARD #6581.015 SLOAN ROYAL 186-1	2"	3/4"	-
UR-2	<u>URINAL</u> MAYBROOK 1.0 GPF WASHOUT ACTION, VITREOUS CHINA, WALL MOUNTED, FLUSH VALVE, 24" HEIGHT FROM TOP OF RIM TO FINISH FLOOR. LOW-CONSUMPTION. FLUSH VALVE: CHROME PLATED BRASS, AUTOMATIC BATTERY POWERED, 1.0 GPF, ADJUSTABLE TAILPIECE, HIGH BACK PRESSURE VACUUM BREAKER FLUSH CONNECTION.	AMERICAN STANDARD #6581.015 SLOAN ROYAL 186-1	2"	3/4"	-
MS-1	<u>SINK</u> ONE PIECE MOLDED CONSTRUCTION, 23" WIDE X 24" DEPTH, 19 GALLON 13" INCH DEEP TUB, MOLDED-IN DRAIN WITH STOPPER, FINISHED STEEL LEGS WITH ADJUSTABLE LEVELERS FAUCET: CHROME FINISH 4" CENTERS, DECK MOUNT WITH 6" SWING SPOUT AND HOSE END DRAIN: CUP STRAINER WITH REMOVABLE BASKET STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOPS, PVC P-TRAP	MUSTEE 17F UTILITUB MUSTEE 93.600 MUSTEE MCGUIRE, CS & B	1-1/2"	1/2"	1/2"
AAV	<u>AIR ADMITTANCE VALVE</u>	STUDOR MINI-VENT	-	LINE SIZE	-
WB	<u>WASHER MACHINE BOX</u> 10" W x 8-3/4" H x 3-1/2" D GALVANIZED METAL WASHING MACHINE OUTLET BOX WITH SINGLE LEVER VALVE, HAMMER ARRESTORS AND 2" DRAIN.	GUY GRAY WB200HA	1 1/2"	1/2"	1/2"
SI	<u>SOLIDS INTERCEPTOR</u>	ZURN Z1180-2IP	1 1/2"	-	-

PLUMBING MATERIAL SPECIFICATIONS

SANITARY AND GREASE WASTE/VENT PIPING:
TUBE: PVC SCHEDULE 40 DWV, ASTM D 1785, FOAM CORE NOT ACCEPTED
FITTINGS: PVC PLASTIC FITTINGS, SCHEDULE 40, ASTM D 2466, FOAM CORE NOT ACCEPTED
JOINTS: SOLVENT CEMENTS FOR PVC PIPE AND FITTINGS, ASTM D 2564. FOAM CORE NOT ACCEPTED
PROVIDE FIRE WRAP FOR PVC PIPE IN PLENUM CEILING AREAS, 3M FIRE BARRIER PLENUM WRAP SA OR EQUAL

DOMESTIC WATER PIPING:
TUBE: CPVC, CTS PIPE, PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM D2846
FITTINGS: CPVC PLASTIC FITTINGS, ASTM F438.
JOINTS: SOLVENT CEMENTS FOR CPVC PIPE AND FITTINGS, ASTM F493

VALVES
ALL VALVES FOR DOMESTIC HOT AND COLD WATER DRISTRIBUTION SYSTEM SHALL BE CONFORM TO REQUIREMENTS OF ASTM D 2846, OPERATING PRESSURE SHALL NOT EXCEED 80% OF THE VALVE PRESSURE CLASS.

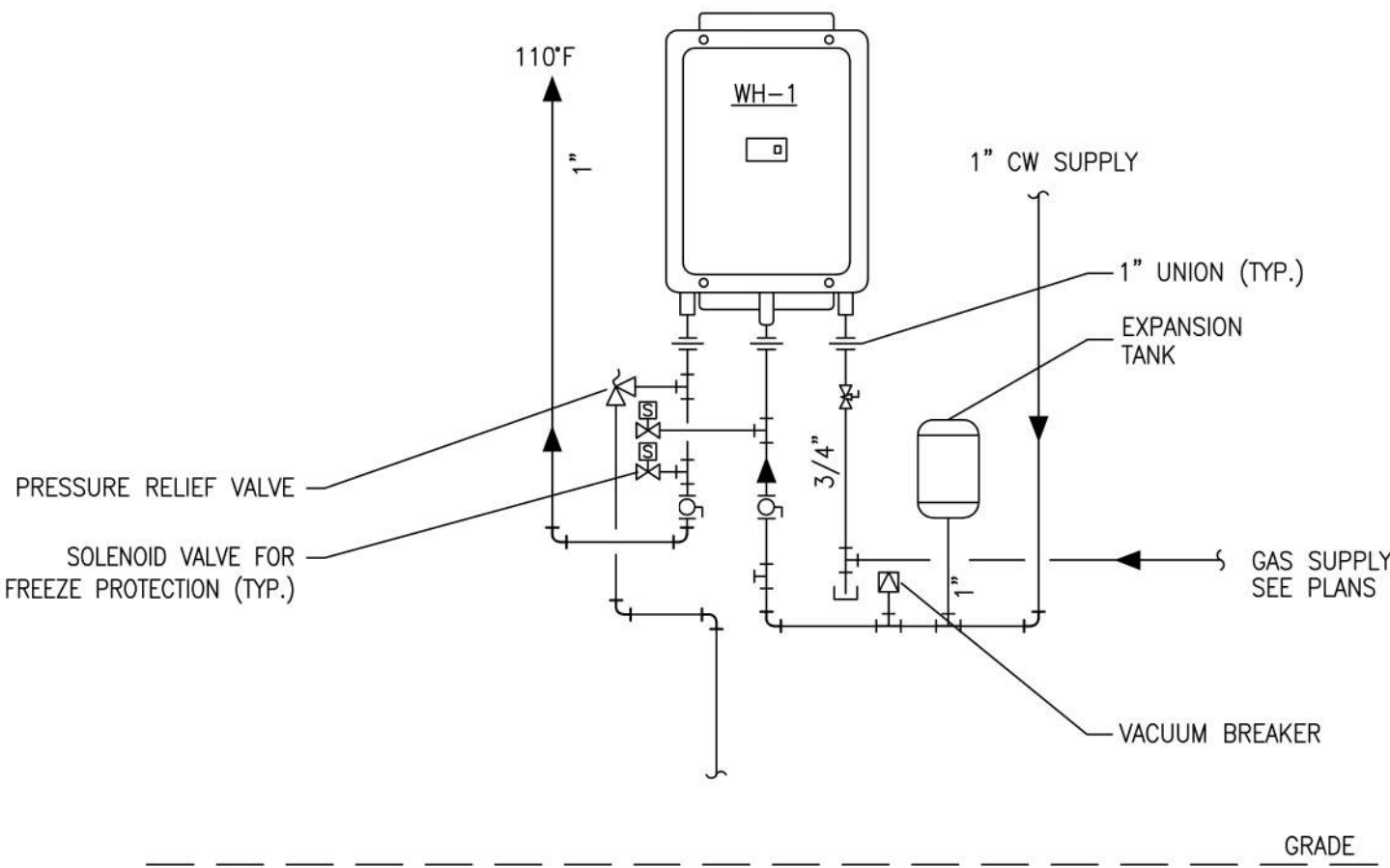
INSULATION
PROVIDE 1" ELASTOMERIC INSULATION FOR ABOVE-GRADE DOMESTIC HOT WATER PIPING AND COLD WATER PIPING IF LOCATED IN VENTED ATTIC SPACE.

SUPPORTS
PROVIDE PIPING HANGERS AND SUPPORTS SIZED AND SPACED PER CURRENT FBC - PLUMBING 2017 AND PROVIDE 6" SADDLES UNDER ALL INSULATED PIPING.

SHOCK ARRESTORS
PROVIDE SHOCK ARRESTORS PER CODE SIZED TO PDI STANDARDS. AIR CHAMBERS ARE NOT ACCEPTABLE.

PLUMBING LEGEND

ABBREVIATIONS & SYMBOLS:		PLUMBING FIXTURES:	
— —	WALL CLEAN OUT	FD	FLOOR DRAIN
○	FLOOR CLEAN OUT	WH	WALL HYDRANT
A/C	ABOVE CEILING	HB	HOSE BIBB
AP	ACCESS PANEL	L	LAVATORY
B/G	BELOW GROUND	MS	MOP SINK
B/F	BELOW FLOOR	S	SINK
BFP	BACK FLOW PREVENTER	SA-A	SHOCK ARRESTOR – P.P.I SIZE
EX.	EXISTING	SS	SERVICE SINK
HD	HUB DRAIN	TMV	THERMOSTATIC MIXING VALVE
VTR	VENT THROUGH ROOF	UR	URINAL
TP	TRAP PRIMER	WC	WATER CLOSET
WH	WATER HEATER	WB	WASHER BOX
FW	FILTERED WATER	TMV	THERMOSTATIC MIXING VALVE
COOG	CLEANOUT ON GRADE	GI	GREASE INTERCEPTOR
WCO	WALL CLEANOUT		
FCO	FLOOR CLEANOUT		
●	POINT OF CONNECTION – NEW WORK TO EXISTING		



PLUMBING GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA BLDG CODE – PLUMBING, NFPA 70, NFPA 101, AND THE AMERICAN DISABILITIES ACT (ADA).
- PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
- SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
- PROVIDE SIX SETS (GC DETERMINE EXACT QUANTITY) OF SHOP DRAWINGS OF PLUMBING FIXTURES, PIPING MATERIALS/FITTINGS, INSULATION, VALVES, AND EQUIPMENT FOR REVIEW BY ENGINEER OF RECORD. SHOP DRAWINGS SHALL BE ASSEMBLED BY THE CONTRACTOR IN A BOUND BOOKLET AND BE COMPLETE INCLUDING ALL ITEMS REQUIRED IN THE PLUMBING CONTRACT. IN-COMPLETE BOOKLETS PUT TOGETHER BY A FIXTURE MANUFACTURER WILL BE REJECTED AND RETURNED.
- PLUMBING SERVICE ROUTING IS BASED ON SITE LIMITED SITE VISIBILITY, AS NO AS-BUILT DRAWINGS EXIST FOR THE FACILITY. PLUMBING CONTRACTOR TO DETERMINE SITE SPECIFIC SERVICE ROUTING AND SERVICE FLOW PRIOR TO TIE-IN AND NEW SERVICE LAYOUT.

— —	NEW SANITARY (S)	— —	BALL VALVE
— —	NEW COLD WATER (CW)	— —	BUTTERFLY VALVE
— —	HOT WATER (110°F)	— —	GATE VALVE
— —	NEW VENT (V)	— —	GLOBE VALVE
— —	NEW GAS (G)	— —	STRAINER
— —		— —	PIPE UNION
— —		— —	CHECK VALVE
— —		— —	ASME PRESSURE/TEMPERATURE RELIEF VALVE
— —		— —	TEMPERED WATER MIXING VALVE
— —		— —	PIPE UP
— —		— —	PIPE DOWN
— —		— —	SHOCK ARRESTOR

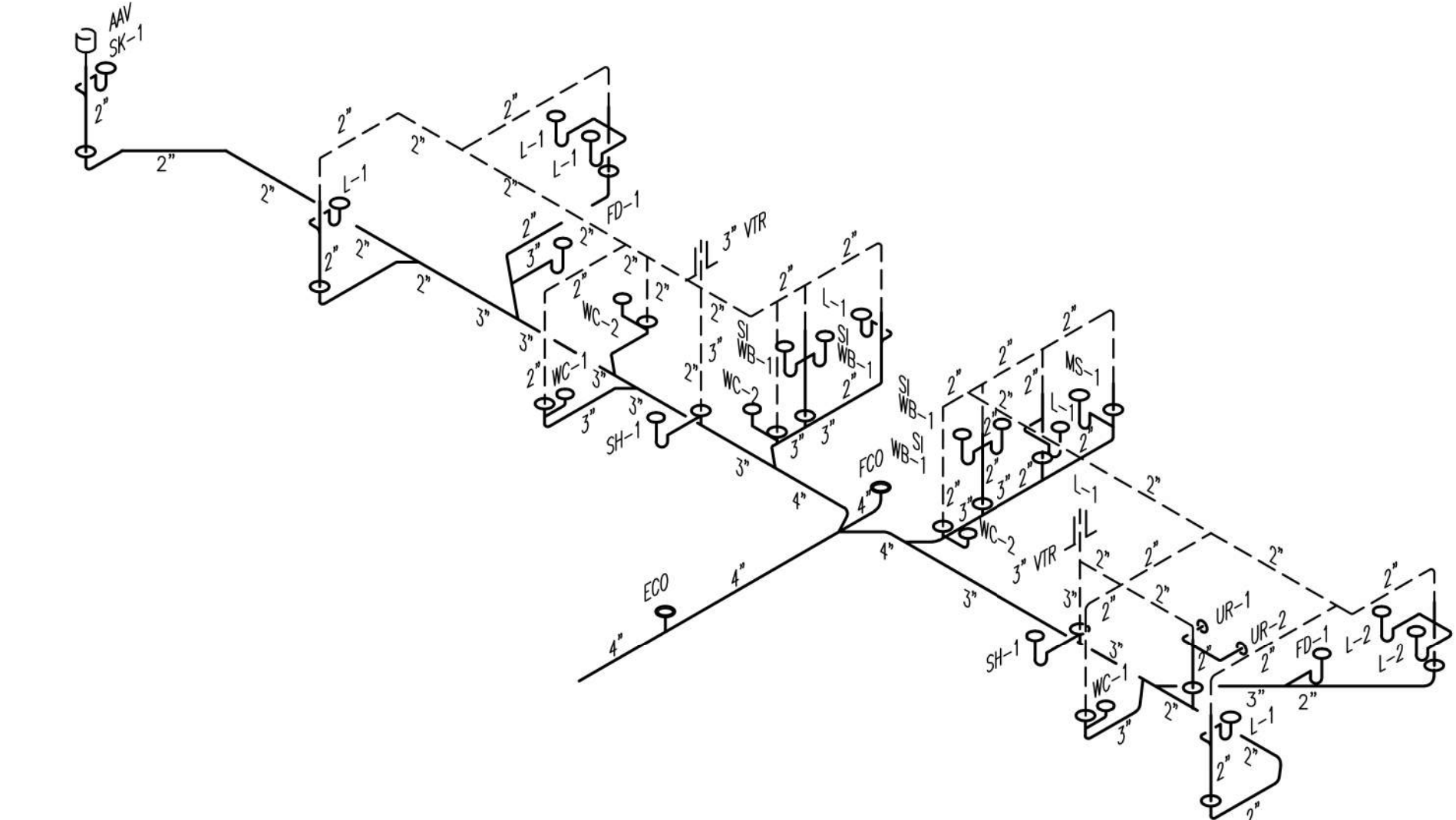
GAS WATER HEATER DETAIL

NOT TO SCALE

GAS PIPING SPECIFICATIONS

SYSTEM	FUEL GAS--(LP GAS)	
PRESSURE	TO TO PSIG	
SIZE	2" AND 'SMALLER	2 1/2" AND LARGER
PIPE	SCHEDULE 40, CARBON STEEL TO ASTM A53-GR B SEAMLESS OR ERW 150 LB MALLEABLE IRON TO ASME A197, THREADED AND BANNED. BRONZE SEATS OR IRON TO IRON	STANDARD WALL THICKNESS CARBON STEEL ASTM A-53-GR B ERW CARBON STEEL STANDARD WALL THICKNESS, CARBON STEEL TO ASTM A234 GRADE WPB FOR BUTT WELDING.
FITTINGS		
NIPPLES	CARBON STEEL TO ASTM A106 GRADE B, SMLS, SCHEDULE 40, THREADED EACH END.	NOT APPLICABLE
SWAGED NIPPLES	CARBON STEEL TO ASTM A106 GRADE B, SEAMLESS, EXTRA HEAVY, BEVELED LARGE END, THREADED SMALL END.	NOT APPLICABLE
PLUG	3000 LB, FORGED CARBON STEEL, ASTM A105, SQUARE HEAD, THREADED	NOT APPLICABLE
OUTLETS	3000 LB, FORGED CARBON STEEL TO ASTM A105, "THREADOLET, ELBOWLET, OR NIPOLET" THREADED, BONNEY FORGE	FORGED CARBON STEEL, TO ASTM A105, STANDARD WEIGHT, "WELDOLET" TYPE, BONNEY FORGE
MECHANICAL JOINTS	UNION 150 LB MALLEABLE IRON TO ASTM A197, THREADED AND BANNED.	FLANGE: 150 LB ", FORGED CARBON STEEL WELDED NECK TO ASTM A105; FLANGE TO FLANGE USE RAISED FACE, USE FF WHEN CONNECTING TO 125 CI FLANGE. GASKETS: GARLOCK 1/16" THICK. RF FLANGES, STYLE IFG 5500. FF FLANGES: GRAPHONIC. BOLTS: C S, ASTM A307 GR. B, HEX HD. NUTS: C S, HEAVY HEX TO ASTM A194 GR H. 2 1/2" TO 10" LUBRICATED PLUG. VALVE 175 LB GRAY IRON, 2-BOLT COVER TYPE, SHORT PATTERN, FF FLANGED ENDS TO 125 LB CI STANDARD: ROCKWELL-NORDSTROM FIG 143
VALVES	1/2" TO 2", LUBRICATED PLUG, 200 LB GRAY IRON, SCREWED GLAND TYPE, REGULAR PATTERN, THREADED ENDS, WITH WRENCH: ROCKWELL-NORDSTROM FIG 114.	
REGULATORS	1. MAXIMUM INLET PRESSURE: 15 PSIG; INVENSYS METERING SYSTEMS, (814-371-8000) MODEL 122 INDUSTRIAL COMBUSTION REGULATOR, SIZES 3/4" TO 2-1/2" (OR EQUAL). 2. MAXIMUM INLET PRESSURE TO 60 PSIG; EQUI-METER INC. MODEL 121 REGULATOR (OR EQUAL) NOTE: CHECK DRAWING AND SCHEDULES FOR FLOW RATES AND INLET AND OUTLET PRESSURES.	
PRESSURE GAUGE	4" DIA LIQUID FILLED, 304SS CASE, WHITE DIAL WITH BLACK FIGURES AND GRADUATIONS, IN PSI, POLYCARBONATE WINDOW, BRONZE BOURDON TUBE, SNUBBER 1/4" NPT CONNECTION, ACCURACY, 1% OF FULL SCALE PER ASME B40.1 EQUAL TO TRECICE SERIES 700. RANGE TO EQUAL TWO TIMES SYSTEM WORKING PRESSURE. USE 1/4" BALL VALVE FOR ISOLATION.	
NOTES:	1. INSTALLATION TO COMPLY WITH ALL STATE AND LOCAL CODES, AND NFPA-54, 2017 FLORIDA BUILDING CODE – FUEL GAS. 2. PROVIDE SEDIMENT TRAPS AT ALL RISERS AND EQUIPMENT CONNECTIONS. 3. PROVIDE AN ISOLATION VALVE AT ALL EQUIPMENT AND IN ALL MAJOR BRANCHES. 4. PAINT ALL GAS PIPING WITH ONE COAT PRIMER PAINT AND 2 COATS OF YELLOW ENAMEL. LABEL PIPE PER ANSI B13.1. 5. PNEUMATIC (OR NITROGEN) PRESSURE TEST AT 100 PSI WITH NO PRESSURE DROP OVER 24 HOURS.	

GAS PIPING SIZE BASED ON 199 MBH INPUT TO GENERATOR AND EQUIVALENT PIPE RUN OF 20'-0" WITH A STARTING PRESSURE OF 11" W.C. AND A TOTAL LOSS OF 0.5" W.C. BASED ON TABLE 402.4(28) FROM THE 2020 FLORIDA BLDG CODE-FUEL GAS



SANITARY WASTE AND VENT

NOT TO SCALE

