

Dwg Name: 21021 A-001 - A-002.dwg [A-001] - Printed on Aug 13, 2021 - 3:37PM, by jvbws-9

HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
PRACTICAL TRAINING SITE
OFFICE & CLASSROOM RENOVATION
IN EXISTING PAVILION

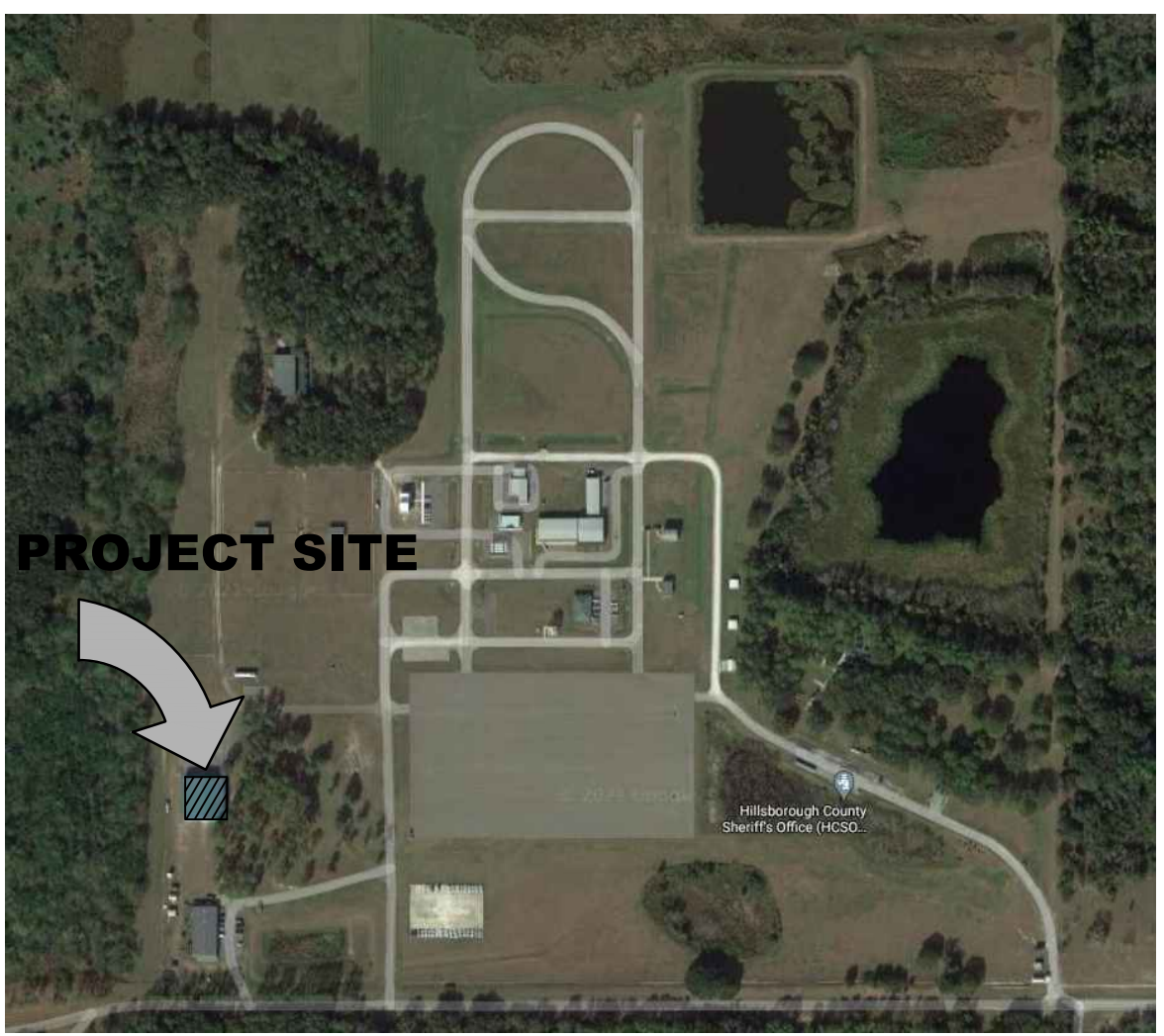
14063 COUNTY ROAD 39
LITHIA, FL 33547

BUILDING INFORMATION	CODE INFORMATION (CONT'D)	SCOPE OF WORK
EXISTING STORAGE BUILDING (GROSS) 10,000 G.S.F. RENOVATION AREA 3,941 S.F.	FBC CHAPTER 9 – FIRE PROTECTION SYSTEM	THE SCOPE OF WORK PROPOSED UNDER THIS PERMIT INCLUDES THE FOLLOWING: - INTERIOR RENOVATION OF APPROXIMATE 3,941 SF OF AN EXISTING STORAGE FACILITY. RENOVATION INCLUDES THE CONSTRUCTION OF TWO NEW TRAINING ROOMS, TWO OFFICES, BREAK ROOM, WOMEN'S AND MEN'S RESTROOM, JANITOR CLOSET, AND HVAC AND IT CLOSET, INCLUDING ALL ASSOCIATED MECHANICAL, ELECTRICAL & PLUMBING WORK. - NEW SEPTIC TANK - PROVIDED UNDER SEPARATE PERMIT
	903.2.9 GROUP S-1/A-3/B: STORAGE/ASSEMBLY/BUSINESS GROUP S/A/B FIRE AREA IS LESS THAN 12,000 S.F. FIRE SPRINKLER NOT REQUIRED	
CODE INFORMATION	FBC CHAPTER 10 – MEANS OF EGRESS	PRODUCT APPROVAL INFORMATION
APPLICABLE FLORIDA BUILDING CODES 7TH EDITION 2020: FBC – BUILDING CODE EXISTING BUILDING CODE MECHANICAL CODE PLUMBING CODE ACCESSIBILITY 7TH EDITION 2020 FLORIDA BUILDING CODE FFPC – FLORIDA FIRE PREVENTION CODE 7TH EDITION NATIONAL ELECTRIC CODE 2014 EDITION	CODE SECTION 1004 – OCCUPANT LOAD FBC TABLE 1004.5 TOTAL OCCUPANCY LOAD = 129 PERSONS SECTION 1005 – EGRESS WIDTH – TABLE 1005 FBC SECTIONS 1005.3.2 EGRESS WIDTH PER PERSON SERVED: .2' / OCCUPANT REQUIRED = 25.8" MIN. REQ'D / 238" PROVIDED SECTION 1006 – NUMBER OF EXITS & EXIT ACCESS DOORWAYS TABLE 1006.2.1 (GROUP A – OCCUPANT LOAD LESS THAN 49) - GROUP A & B MINIMUM 2 EXITS REQUIRED – 2 PROVIDED - GROUP S MINIMUM 1 EXIT REQUIRED – 2 PROVIDED (EXISTING) TOTAL 3 REQUIRED – 4 PROVIDED - COMMON PATH OF TRAVEL GROUP S/A/B = 75' MAX W/O SPRINKLER SYSTEM SECTION 1007 – EXIT & EXIT ACCESS DOORWAY CONFIGURATION - EXIT DOORS ARE PLACED APART EQUAL TO OR NO LESS THAN ONE HALF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL (NON-SPRINKLERED) SECTION 1008 – MEANS OF EGRESS ILLUMINATION SEE ELECTRICAL DWGS. FOR EXIT ILLUMINATION LOCATIONS SECTION 1009 – ACCESSIBLE MEANS OF EGRESS ALL EXITS ARE FULLY ACCESSIBLE PER 2020 FBC – ACCESSIBILITY (7TH EDITION) SECTION 1010 – DOORS, GATES & TURNSTILES - MEANS OF EGRESS DOORS SHALL HAVE A MIN 32" CLEAR WIDTH - DOOR HARDWARE ON EGRESS DOORS SHALL BE ACCESSIBLE SECTION 1011 – STAIRWAYS & SECTION 1012 RAMP – N/A SECTION 1013 – EXIT SIGNS (SEE SECTION 1008) SECTION 1014 – HANDRAILS & 1015 GUARDRAILS –N/A SECTION 1016 – EXITS ACCESS SHALL COMPLY W/ APPLICABLE PROVISIONS OF SECTIONS 1003-1015 SECTION 1017 – EXIT ACCESS TRAVEL DISTANCE – TABLE 1017.2 MAXIMUM TRAVEL DISTANCES: S (STORAGE) A (ASSEMBLY) B (BUSINESS) – 200 FEET (NON-SPRINKLERED) SECTION 1018 – AISLES: N/A SECTION 1019 – EXIT ACCESS STAIRWAYS & RAMP – N/A SECTION 1020 – CORRIDORS CORRIDOR IS 1-HOUR RATED MINIMUM CORRIDOR WIDTH: REQUIRED = 44" PROVIDED = 85" SECTION 1021 – EGRESS BALCONIES – N/A SECTION 1022 EXITS 1 EXIT MIN. REQUIRED 4 EXITS PROVIDED	
BUILDING & FIRE PREVENTION	ACCESSIBILITY CODE	PLUMBING FIXTURE CALCULATIONS
FBC CHAPTER 3 – USE AND OCCUPANCY CLASSIFICATION	THIS DESIGN IS INTENDED TO PROVIDE FOR A FULLY ACCESSIBLE SPACE PER THE ADA AND THE 7TH EDITION OF THE FLORIDA BUILDING CODE ACCESSIBILITY. TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, DOORS AND SITE ACCESS ARE COMPLIANT WITH 7TH EDITION 2020 FBC ACCESSIBILITY SEE LIFE SAFETY PLAN & FLOOR PLAN FOR DETAILS FOR SEATING & ACCESSIBLE ROUTES	
FBC: SEC 311.2 (S-1) STORAGE FBC: SEC 303.4 (A-3) ASSEMBLY FBC: SEC 304 (B) BUSINESS		OCCUPANCY GROUP A-3 114/2 = 57 OCCUPANTS EA. SEX WATERCLOSETS: 1 PER 125 MEN: 57/125 = 0.45; (1) REQUIRED 1 PER 65 WOMEN: 57/65 = 0.87; (1) REQUIRED LAVATORIES: 1 PER 200 MEN: 57/200 = 0.28; (1) REQUIRED 1 PER 200 WOMEN: 57/200 = 0.28; (1) REQUIRED OCCUPANCY GROUP S-1 12/2 = 6 OCCUPANTS EA. SEX WATERCLOSETS: 1 PER 100 MEN: 6/100 = 0.06; (1) REQUIRED 1 PER 100 WOMEN: 6/100 = 0.06; (1) REQUIRED LAVATORIES: 1 PER 100 MEN: 6/100 = 0.06; (1) REQUIRED 1 PER 100 WOMEN: 6/100 = 0.06; (1) REQUIRED OCCUPANCY GROUP B 3 OCCUPANTS 1 UNISEX RESTROOM ALLOWED (LESS THAN 15 OCCUPANTS) WC = (1) REQUIRED LAV = (1) REQUIRED TOTAL FIXTURES: WATERCLOSETS: (5) REQUIRED MEN: (2) PROVIDED WOMEN: (4) PROVIDED URINALS: MEN: (2) PROVIDED LAVATORIES: (5) REQUIRED MEN: (3) PROVIDED WOMEN: (3) PROVIDED SERVICE SINK: (1) REQUIRED: (1) PROVIDED DRINKING FOUNTAIN: 1/1000 REQ'D: (1) ADA COMPLIANT FIXTURE PROVIDED
OCCUPANCY: 129 PERSONS		
NFPA CH 6 & FBC CH 3 – USE AND OCCUPANCY CLASSIFICATION		
FBC CH 311.2 STORAGE (S-1) FBC CH 303.4 ASSEMBLY (A-3) FBC CH 304 BUSINESS (B)		
NFPA 101 CHAPTER 12 NEW ASSEMBLY NFPA 101 CHAPTER 42 STORAGE OCCUPANCIES		
NFPA 6.1.2.1 -ASSEMBLY OCCUPANCY NFPA 6.1.13.1 -STORAGE OCCUPANCY NFPA 6.1.11.1 -BUSINESS OCCUPANCY NFPA 6.1.14.1(1) -MIXED OCCUPANCY		
FBC CHAPTER 4 – NOT APPLICABLE		
FBC CHAPTER 5 – GENERAL BUILDING HEIGHTS & AREAS		
ALLOWABLE BUILDING HEIGHT IN FEET TABLE 504.3 & TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE, TYPE II-B, STORAGE, NON-SPRINKLERED ONE STORY. -ALLOWABLE HEIGHT TABLE 504.3, 55 FEET -ALLOWABLE NUMBER OF STORIES TABLE 504.4, 2 STORY -ALLOWABLE BUILDING AREA TABLE 506.2, 17,500 SQ. FT.		
FBC CHAPTER 6 – TYPES OF CONSTRUCTION (TABLE 601)		
BUILDING CLASSIFICATION: TYPE II-B STRUCTURAL FRAME: 0 HR INTERIOR TENANT WORK: NON-BEARING WALL: NOT RATED SECONDARY MEMBERS: 0 HR		
TABLE 602 – FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE - GROUP S/A/B GREATER THAN 30 FEET SEPARATION: 0 HOUR REQUIRED		
FBC CHAPTER 7 – FIRE RESISTANCE RATINGS		
-SINGLE TENANT OCCUPANCY		
FBC CHAPTER 8 INTERIOR FINISHES		
-SEC 803 : ALL INTERIOR FINISH MATERIALS SHALL HAVE A MINIMUM "CLASS C" FLAME SPREAD CLASSIFICATION OR BETTER. -VERTICAL EXITS AND EXIT PASSAGES TO BE CLASS "B"		

BUILDING DEPARTMENT
HILLSBOROUGH COUNTY BUILDING DEPARTMENT 601 E. KENNEDY BLVD. TAMPA, FL. 33602 PHONE..... 813-272-5600
PROJECT TEAM
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SEPTIC TANK ENGINEER: PETER J. MEDICO, P.E. 5331 CAPE LEVIE DRIVE SARASOTA, FL 34242 PHONE..... 954-654-9124 E-MAIL..... PETEMEDICO@AOL.COM CONTACT..... PETER MEDICO

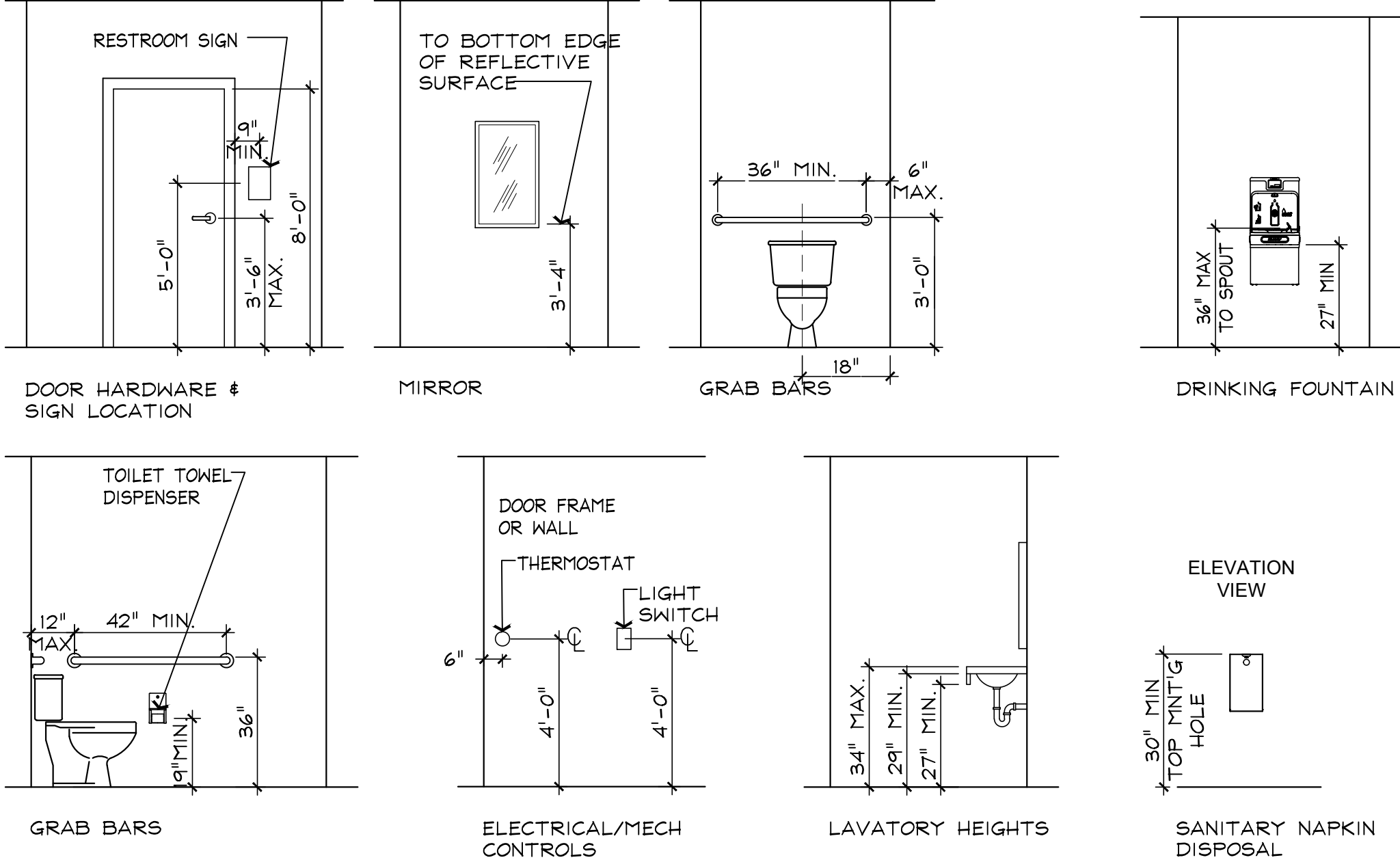


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ST-1 SEPTIC SYSTEM SITE PLAN & DETAILS



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PRINTED 1 ISSUED FOR PERMIT 05.26.21 2 CLARIFICATIONS 08.13.21 3 4 5 6 7 8
REVISIONS 1 2 3 4 5 6
This item has been electronically signed and sealed by Joseph V. Belluccia using a Digital signature and date. Printed copies of this document must not be considered signed and sealed and the signature must be verified on any electronic copies.
HILLSBOROUGH COUNTY SHERIFF'S OFFICE Practical Training Site Office & Classroom Renovation in Existing Pavilion
Joseph V. Belluccia, AIA FL REG AR92396
I HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.
JOB NO : 21021 DRAWN BY : XAMR ISSUE DATE : 05.26.21
SHEET NAME: COVER SHEET & CODE INFO.
SHEET NUMBER A-001

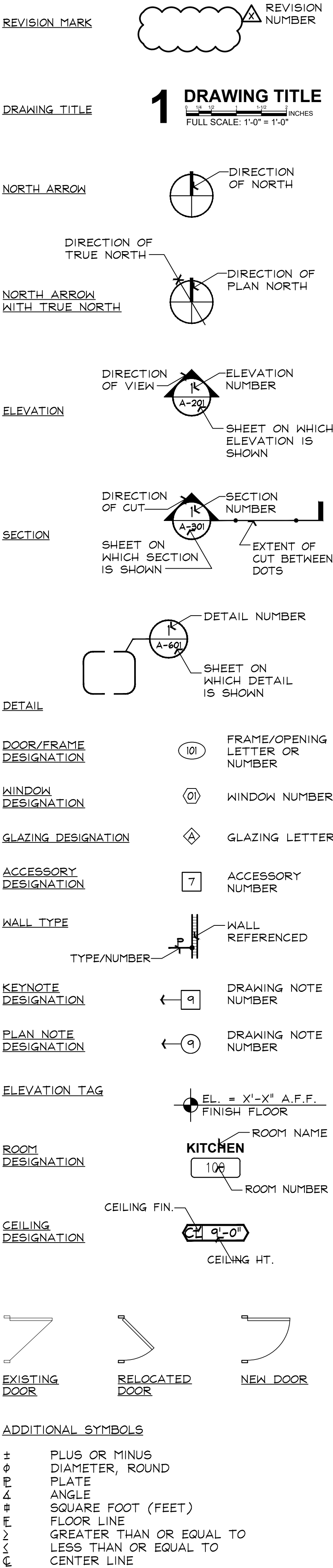
ACCESSIBILITY REFERENCE



ABBREVIATIONS LEGEND

ALPHABETICAL BY DESCRIPTION	
AFF	ABOVE FINISHED FLOOR
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
APC	ACOUSTICAL PANEL CEILING
ADD'L	ADDITIONAL
ADJ	ADJACENT
A/C	AIR CONDITIONING
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
AB	ANCHOR BOLT
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
A/E	ARCHITECT/ENGINEER
AVG	AVERAGE
BM	BEAM
BD	BOARD
BLK	BLOCK
BLKG	BLOCKING
BLDG	BUILDING
BUR	BUILT UP ROOFING
CAB	CABINET
CPT	CARPET
CLG	CEILING
CT	CERAMIC TILE
CIR	CIRCLE
CLO	CLOSET
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACT, CONTRACTOR
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CORR	CORRIDOR
D	DEEP, DEPTH
DEMO	DEMOLISH, DEMOLITION
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DW	DISHWASHER
DIV	DIVISION
DR	DOOR
DBL	DOUBLE
DN	DOWN
DS	DOWNSPOUT
DWR	DRAWER
DWG	DRAINING
DF	DRINKING FOUNTAIN
EA	EACH
ELEC	ELECTRIC, ELECTRICAL
ENC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
ELEV	ELEVATION
EL	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EXH	EXHAUST
EXIST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
EIFS	EXTERIOR INSULATION FINISH SYSTEM
FRP	FIBER REINFORCED PLASTIC
FIN	FINISH, FINISHED
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FH	FIRE HYDRANT
FRTW	FIRE RETARDANT TREATED WOOD
FL	FLOOR, FLOORING
FD	FLOOR DRAIN
FLUOR	FLUORESCENT
FT	FOOT, FEET
FTG	FOOTING
FND	FOUNDATION
GA	GAGE, GAUGE
GALV	GALVANIZED
GAH	GAS WATER HEATER
GWB	GYPSONI WALL BOARD
GC	GENERAL CONTRACTOR
GL	GLASS, GLAZING
GB	GRAB BAR
GYP	GYPSONI
HDW	HARDWARE
HVAC	HEATING/VENTILATION/AIR CONDITIONING
HT	HEIGHT
H	HIGH
HC	HOLLOW CORE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIBB
IN	INCH
INCL	INCLUDE, INCLUDED, INCLUDING
INFO	INFORMATION
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
JST	JOIST
JBOX	JUNCTION BOX
LAB	LABORATORY
LAM	LAMINATE, LAMINATED
LA	LANDSCAPE ARCHITECT
LAV	LAVATORY
LT	LIGHT
LTG	LIGHTING
LED	LIGHT-EMITTING DIODE
LF	LINEAL FEET
LVT	LUXURY VINYL TILE
MAINT	MAINTENANCE
MH	MANHOLE
MFR	MANUFACTURE, MANUFACTURER
MFR'D	MANUFACTURED
MAS	MASONRY
MO	MASONRY OPENING
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANIC, MECHANICAL
ME	MECHANICAL ENGINEER
MTL	METAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
NEC	NATIONAL ELECTRIC CODE
NRC	NOISE REDUCTION COEFFICIENT
NOMI	NOMINAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO, #	NUMBER
OFF	OFFICE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OD	OUTSIDE DIAMETER
OA	OVERALL
OH	OVERHEAD
PNT	PAINT (PAINTED FINISH)
PR	PAIR
PTD	PAPER TOWEL DISPENSER
PT	PORCELAIN TILE
PERP	PERPENDICULAR
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLWD	PLYWOOD
PVC	POLYVINYL CHLORIDE
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PREFAB	PREFABRICATE, PREFABRICATED
PREFIN	PREFINISH, PREFINISHED
PT	PRESSURE TREATED
QTY	QUANTITY
QT	QUARRY TILE
R	RADIUS
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGULAR
REINF	REINFORCE, REINFORCED, REINFORCING
REBAR	REINFORCING BAR
REQ'D	REQUIRED
REV	REVISION, REVISED
R/W	RIGHT OF WAY
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
SCH	SCHEDULE
SIM	SIMILAR
SHTH	SHEATHING
SHT	SHEET
SD	SOAP DISPENSER
SC	SOLID CORE
STC	SOUND TRANSMISSION COEFFICIENT
SPKR	SPEAKER
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT, SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SW	SWITCH
SYM	SYMMETRY, SYMMETRICAL
TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPORARY
TH	THICK, THICKNESS
THR	THRESHOLD
TPD	TOILET PAPER DISPENSER
T&G	TONGUE AND GROOVE
T&B	TOP AND BOTTOM
TB	TOWEL BAR
TR	TREAD
TYP	TYPICAL
UC	UNDERCUT
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
VTR	VENT THROUGH ROOF
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITE TILE
W	WIDE, WIDTH
WSCT	WAINSCOT
WC	WATER CLOSET
WH	WATER HEATER
WP	WEATHERPROOF
WR	WASTE RECEPTACLE
WT	WEIGHT
W&F	WELDED WIRE FABRIC
W	WITH
W/O	WITHOUT
WD	WOOD

SYMBOLS LEGEND



PRINTED	
1	ISSUED FOR PERMIT 05.26.21
2	CLARIFICATIONS 08.13.21
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HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
Practical Training Site
Office & Classroom Renovation
in Existing Pavilion

Joseph V. Belluccia, AIA

FL REG AR92396

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

JOB NO :	21021
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SHEET NAME:	ABBREVIATIONS, SYMBOLS, LEGEND & ADA REFERENCES
SHEET NUMBER	A-002

Dwg Name: 21021 A-003A - A-003C.dwg [A-003A] - Printed on Aug 13, 2021 - 11:48AM, by JVB-WS-19

JVB ARCHITECT JVB NO. 21021 HILLSBOROUGH COUNTY SHERIFF'S OFFICE (HCSO) PRACTICAL TRAINING SITE

GENERAL REQUIREMENTS

1.0 GENERAL CONDITIONS and AIA Documents:

Contractor shall follow and utilize Owner's agreements and general conditions:

-Contractor Construction Agreement as provided by Owner

-A201 General Conditions for the Contract for Construction

-A401 Standard Form of Agreements Between Contractor and Subcontractor

-G701 Change Order

-G702 Application and Certificate for Payment

-other applicable AIA Documents

- 1.1 Summary of the Work - See title sheet and code information for overall square footage and occupancies. contractor to verify all square footages for cost take off.
- 1.2 Training Facility in Lithia, FL.
- A. Site area is approximately 5.36 acres. Existing building area is approximately 10,000-SF. Renovation area is approximately 4,000 SF.
- B. All work will be in accordance with the requirements of local and state codes and agencies having jurisdiction, and will be completed in a manner satisfactory to the zoning / site & building department of the Hillsborough County.

1.3 PERMIT AND FEES

Architect will submit Contract Documents to the Hillsborough County building department for permitting. Once Construction Contract is awarded, Contractor shall Contact HCSO and take over the permitting process. CLIENT AND CONTRACTOR TO COORDINATE FOR FINAL IMPACT FEES, PERMIT FEES, AND UTILITY FEES FOR PAYMENT.

1.4 DRAWINGS AND SPECIFICATIONS

- A. ~~Discrepancies in these plans should be brought to the attention of the architect immediately.~~ Please confirm all dimensions before ordering, purchasing, or installing any new work. No deviations from the approved plans and specifications shall be permitted without authorization from the architect and engineers for all portions of work.
- B. It is understood that there may be existing unknown SITE conditions that the contractor shall assist with informing the architect and client.
- C. Contractor shall not scale these drawings for dimensions not given. Advise Architect of any conflicts on the drawings. Verify all field conditions and confirm column locations in respect to architectural wall alignment prior to the start of work.
- D. These drawings are to be used in combination with the structural, mechanical, electrical and plumbing drawings. Any conflicts, discrepancies or coordination with the site design shall be brought to the attention of the architect and CLIENT.
- E. These construction documents have been prepared from the most complete information available from manufacturers.
- F. The contractor shall comply with ALL manufacturer's installation instructions & recommendations to the extent that printed manufacturer installation information is to take precedent, is more detailed and stringent than the requirements contained in the plans. Specifically: FLORIDA PRODUCT APPROVAL AND ALL MANUFACTURER TESTED INSTALLATION.
- G. The plans show the location of fixtures & equipment & are intended to convey the general intent of the work in scope & layout. They are not intended to show in minute detail every & all of the accessories intended for the purpose of execution of the work, but it is understood that such details are part of this work. Contractor shall coordinate installation of all fixtures and equipment between these plans.
- H. The Contractor shall perform no portion of the work at any time without Contract Documents or, where required, approved shop drawings, product data or supplemental details for such portion of the work.
- I. The Contractor is responsible for means and methods of construction to ensure the safety of the building and tenants.
- J. The Contractor shall maintain a record "As-Built" set of documents at the job site at all times. This record "As-Built" set shall be handed over to the Owner upon completion of the project along with the Project Manual.

1.5 INSURANCE

- A. Reference Construction Agreement for insurance requirements.

1.6 Certificate of Payment - Waivers

- A. Contractor shall submit Waiver of Lien from all subcontractors requesting payment, with all payment requests. Applications for Payment will not be processed without Waiver of Liens.

1.7 WARRANTY

- A. The contractor shall warranty all work for a Minimum period of one (1) year from the date of substantial completion. All equipment warranties shall be provided.
- B. The contractor shall provide two (2) complete "close-out" manuals to assist with operating the building.

SECTION 012100 - ALLOWANCES

- 1.1 See Bid Form Division 1 for a list of Allowances to be included for the project.
- 1.2 Owner reserves the right to not include allowances in the project or budget and/or to Purchase all Allowance Item direct.

SECTION 012300 - ALTERNATES

- 1.1 See Bid Form Division 1 for a list of Alternates (Add / Deduct) to be included for the project.
- 1.2 Contractor Alternates shall be allowed for presentation and shall be identified at the bottom of Bid Form only.

SECTION 012900 - PAYMENT PROCEDURES

1.1 PAYMENT PROCEDURES

- A. Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule.
- B. Use the Project Manual table of contents as a guide to establish line items for the Schedule of Values. Provide at least one line item for each Specification Section.

1.2 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as paid for by Owner.
- B. The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction Work covered by each Application for Payment is the period indicated in the Agreement.
- C. Progress payments shall be submitted to Owner by the 22nd of the month. The period covered by each Application for Payment is one month, ending on the last day of the month.
- D. Use AIA Document G702 and AIA Document G703 Continuation Sheets as form for Applications for Payment.
- E. Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
- G. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from every entity who is lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment.
- H. Application for Payment at Substantial Completion: After issuing the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
- I. Final Payment Application: Submit final Application for Payment with releases and supporting documentation required for project closeout.

SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

1.1 CONSTRUCTION PROGRESS DOCUMENTATION

- A. Submit Construction Schedule large enough to show entire schedule for entire construction period.
- B. Daily Construction Reports: Submit two copies at weekly intervals.
- C. Field Condition Reports: Submit two copies at time of discovery of differing conditions.

SECTION 013300 - SUBMITTAL PROCEDURES

1.1 SUBMITTAL PROCEDURES

- A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
- B. Submittals Schedule: Submit list of submittals and time requirements for scheduled performance of related construction activities.
- C. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal.
- D. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing.
- E. Electronic Submittals are to be assembled as a complete submittal package into a single PDF indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
- F. All submittals shall have the following:
- Project name.
 - Date.
 - Name of Contractor.
 - Name of firm or entity that prepared submittal.
 - Contractor review stamp.
- G. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- H. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
- Note date and content of previous submittal.
 - Note date and content of revision in label or title block and clearly indicate extent of revision.
 - Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

1.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
- If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
- Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

1.3 CONTRACTOR'S REVIEW

- A. General: CONTRACTOR SHALL review each submittal and check for compliance with the Contract Documents. Note corrections and field dimensions. **Mark with approval stamp before submitting to Architect.**
- B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

1.4 ARCHITECT'S ACTION

- A. Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.
- B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or modifications required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken, as follows:
- No Exceptions Taken - Final Unrestricted Release: When submittals are marked "No Exceptions Taken", that part of the Work covered by the submittal may proceed provided it complies with requirements of the Contract Documents; final acceptance will depend upon that compliance.
 - Revise and Resubmit - Returned for Resubmittal: When submittal is marked "Revise and Resubmit", do not proceed with that part of the Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal in accordance with the notations; resubmit without delay. Repeat if necessary to obtain a different action mark.
 - Rejected; Submit Specified Item: When submittal is marked "Rejected; Submit specified item", do not proceed with that part of the work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal in accordance in accordance with the notations, resubmit without delay.
 - Exceptions as Noted - Final-But-Restricted Release: When submittals are marked "Exceptions as Noted", that part of the Work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and with requirements of the Contract Documents; final acceptance will depend upon that compliance
 - No Action Taken - Other Action: Where a submittal is primarily for information or record purposes, special processing or other activity, the submittal will be returned, marked "No Action Taken".

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

1.1 TEMPORARY FACILITIES AND CONTROLS

- A. Temporary utilities include, but are not limited to, the following:
- Sewers and drainage.
 - Water service and distribution.
 - Sanitary facilities, including toilets, wash facilities, and drinking-water facilities.
 - Heating and cooling facilities.
 - Ventilation.
 - Electric power service.
 - Lighting.
 - Telephone service.
- C. Support facilities include, but are not limited to, the following:
- Temporary roads and paving.
 - Dewatering facilities and drains.
 - Project identification and temporary signs.
 - Waste disposal facilities.
 - Field offices.
 - Storage and fabrication sheds.
 - Lifts and hoists.
 - Temporary elevator usage.
 - Temporary stairs.
 - Construction aids and miscellaneous services and facilities.
- D. Security and protection facilities include, but are not limited to, the following:
- Environmental protection.
 - Stormwater control.
 - Tree and plant protection.
 - Pest control.
 - Site enclosure fence.
 - Security enclosure and lockup.
 - Barricades, warning signs, and lights.
 - Covered walkways.
 - Temporary enclosures.
 - Temporary partitions.
 - Fire protection.

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HILLSBOROUGH COUNTY

SHERIFF'S OFFICE

Practical Training Site

Office & Classroom Renovation

in Existing Pavilion

Joseph V. Belluccia, AIA

FL REG AR92396

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JOB NO : 21021

DRAWN BY : RS

ISSUE DATE : 05.26.21

SHEET NAME:
OUTLINE
SPECIFICATIONS

SHEET NUMBER
A-003A

Dwg Name: 21021 A-003A - A-003C.dwg [A-003C] - Printed on Aug 13, 2021 - 11:50AM, by JVB-WS-19

DIVISION 6 WOODS, PLASTICS & COMPOSITES

SECTION 060500 - FIRE RETARDANT WOOD TREATMENT

- 1.1 Acceptable Manufacturer: Viance - Treated Wood Solutions
- 1.2 Structural Treated Plywood: As specified in Section 06 16 00
- 1.3 Plywood: Comply with AWWPA U1, UCFA, Type A or ICC-ES ESR 2645
- 1.4 Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation

SECTION 060600 - PLASTIC LAMINATE

- 1.1 Standard Plastic Laminate - Decorative Cladding Architectural Cabinets, etc.
- 1.2 Wilsonart or Equal
- 1.3 See Contract Documents Interior Design for selection of finishes.

SECTION 061000 - ROUGH CARPENTRY

- 1.1 As required for dimensional lumber, framing, fiberboard, etc.
- 1.2 All lumber to be pressure treated and / or FRTW as required.

SECTION 06200 FINISHED CARPENTRY

- 1.1 Submit samples to architect for approval of stain color quality and finish for all Finish Carpentry
 - A. Breakroom, workroom, cabinets & countertops, see finishes on drawings.
 - B. Plastic laminate counters, Wilsonart see finish schedule.
 - C. Solid surface or granite counter tops, see finish schedule.

SECTION 064100 ARCHITECTURAL WOOD CASEWORK

- 1.1 Submit samples to architect for approval of stain color quality and finish for all Finish Carpentry
 - A. Base & upper cabinets: 3/4" cabinet grade plywood construction
 - B. Custom Millwork with finishes as shown on architectural drawings

SECTION 064600 WOOD TRIM

- 1.1 Submit samples to architect for approval of stain color quality and finish for all Finish Carpentry
 - A. Wood trim as indicated on Contract Documents interior design.

DIVISION 7 THERMAL AND MOISTURE PROTECTION

SECTION 072100-BUILDING INSULATION

- 1.1 MANUFACTURERS
 - A. BASIS OF DESIGN: Owens Corning
- 1.2 Board Insulation for perimeter walls - 1-1/2" rigid board
 - A. Formular 150 or equal, R values as indicated on Contract Documents, energy calculations.
- 1.3 Batt Insulation for Sound attenuation
 - A. Sound attenuation performance
 - B. Above scheduled ceilings: Conference Rooms and Partner Attorney Offices
 - C. Scheduled Partitions: the maximum thickness blanket achievable for specified partitions.
- 1.4 Batt Insulation for Thermal insulation
 - A. Thermal performance per Contract Documents, See Energy Calculations.

SECTION 076000 FLASHING & SHEET METAL

- A. Installed per approved Florida Product Approval. Florida Product Approval takes precedent over these Documents and Details

SECTION 078400 - FIRE STOPPING

- 1.1 Fire stopping as required to achieve the listed UL tested assemblies for all rated assemblies.

SECTION 079200 - JOINT SEALANTS

- 1.1 MATERIALS
 - A. Joint Sealant
 - 1. Product and Manufacturer: Dow Corning 790 Silicone Building Sealant
 - 2. Backer Rod: Type recommended for applications indicated.
 - 3. Color to match exterior finish adjacent to application.
 - B. Joint Sealant - For masonry-to-metal and metal-to-metal joints (Storefront, metals, etc).
 - 1. Product and Manufacturer: Dow Corning 795 Silicone Building Sealant.
 - C. Joint Sealant - For masonry and concrete joints (CMU, Concrete, Pavers).
 - 1. Product and Manufacturer: Dow Corning 790 Silicone Building Sealant.

DIVISION 8 - DOORS, WINDOWS AND HARDWARE

SECTION 081113 - METAL DOORS AND FRAMES

- 1.1 STEEL DOORS AND FRAMES
 - A. SDI A250.8; metallic-coated, cold-rolled steel sheet.
 - 1. Florida Product Approval: As indicated.
 - 2. Edge Construction: Model 2, Seamless.
 - 3. Core: Manufacturer's standard.
 - 4. Frames: Hollow metal.
 - 5. Exposed Finish: Factory primed.
 - 6. Final Finish: Painted.
 - 7. Door Hardware: As indicated on the Drawings.
 - 8. Fire rated steel doors as indicated on drawings.

SECTION 081113 - METAL FRAMES

1.1 ALUMINUM KNOCK DOWN FRAMES

- A. All interior doors to have Aluminum Knock Down 2" Frame.
- B. Interior Fire Rated Doors to have Hollow Metal 2" frame per the UL listing.

SECTION 081400 - WOOD DOORS

1.1 WOOD INTERIOR DOORS

- A. Stain grade solid core wood white birch doors; dimensions per architectural schedule.
- B. Frames: Alum Metal Frames with with silencers and 3-1/2" wood casement around frames; refer to interior design drawings.
- C. Hardware Finish: Satin Nickel
- D. Heavy duty grade ADA lever knob.
- E. See hardware schedule for specific hardware requirements.

SECTION 084000 - ENTRANCES AND STOREFRONTS

- 1.1 Storefront & Entrance System
 - A. Sample Storefront assembly with Glazing to be submitted to Architect for approval
 - B. Entrance and Storefront Systems shall be installed per approved Florida Product Approval.
 - C. Entrance and Storefront to be YKK or equal:
 - 1. YKK 35HL Medium Stile Impact Resistant storefront and entrance systems
 - 2. YKK miscellaneous framing as indicated on plans.
 - D. Standard Kynar clear anodized aluminum finish on all storefront & entrance systems. To be Approved.
 - E. Storefront entrance doors as scheduled with matching finish with impact glazing. See Glazing Section.
 - F. 1" muntins between glazing as indicated on elevations.

SECTION 087100 - DOOR HARDWARE

1.1 DOOR HARDWARE

- A. Hardware: As indicated on Contract Documents.
 - 1. Hardware Finish: 626
 - 2. Heavy duty grade ADA lever knob.
- B. Florida Product Approval: Exterior Doors hardware per Florida Product Approval. Finish to match 626
- C. See hardware schedule for specific hardware requirements.Keys: Provide nickel-silver keys only. Permanently inscribe each key with a visual key control number and include "DO NOT DUPLICATE". Provide the following.
 - 1. Cylinder Change Keys: Three.
 - 2. Master Keys: Five.
 - 3. Grand Master Keys: Five.

SECTION 088000 - GLAZING

1.1 Glazing

- A. Glazing: Impact - Insulated glazing per the Florida Product Approval.
 - 1. Tempered clear glazing with Low E on the tempered glass surface #2
 - 2. Impact glazing clear glass with PVB laminate layer
 - 3. Accepted Manufacturers: Guardian, Old Castle, Veracon or equal
- B. Interior glazing as indicated to be ½" tempered

DIVISION 9 - FINISHES

SECTION 090600 - SCHEDULES FOR FINISHES - SEE CONTRACT DOCUMENTS FOR SELECTED FINISHES.

SECTION 092200 - NON-STRUCTURAL METAL FRAMING

- 1.1 Framing Members, General: Comply with ASTM C 754 for conditions indicated.
- 1.2 Cold-Rolled Channel Bridging: Steel, 0.053-inch minimum base-metal thickness, with minimum 1/2-inch- wide flanges
- 1.3 Hat-Shaped, Rigid Furring Channels: ASTM C 645
- 1.4 Resilient Furring Channels: 1/2-inch- deep, steel sheet members designed to reduce sound transmission.
- 1.5 Cold-Rolled Furring Channels: 0.053-inch uncoated-steel thickness, with minimum 1/2-inch wide flanges
- 1.6 Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch- diameter wire, or double strand of 0.0475-inch- diameter wire
- 1.7 Fire-Test-Response Characteristics: Provide materials and construction identical to those tested according to ASTM E 119
- 1.8 Structural Performance: Provide cold-formed steel framing capable of withstanding design loads within limits and under conditions indicated.
 - A. Deflection Limits: Design framing systems to withstand design loads without deflections
 - B. greater than the following:
 - C. Interior Wall Framing: Horizontal deflection of L/240 of the wall height under a horizontal load of 5 lbf/sq. ft

SECTION 092900 - GYPSUM BOARD

1.1 INTERIOR GYPSUM

- A. Regular Type, Thickness as scheduled, Tapered edges
- B. Moisture Resistant per ASTM 1396
 - 1. Thickness: As indicated on Drawings.
 - 2. Long Edges: Tapered.
 - 3. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274
- C. GWB Finish - Level 4 all locations

SECTION 095100 - SUSPENDED ACOUSTICAL CEILINGS

- 1.1 Ceiling Panels & Suspension system.
- 1.2 Basis of Design as indicated on Contract Documents
- 1.3 Metal Suspension System:
 - A. Intermediate Duty System
 - B. Finishes and Colors per Contract Documents
 - C. Attachment Devices: Size for five times the design load indicated in ASTM C 635, Table 1, Direct Hung," unless otherwise indicated.
 - D. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:
 - 1. Zinc-Coated Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
 - 2. Size: Select wire diameter so its stress at three times hanger design load (ASTM C 635, Table 1, "Direct Hung")

SECTION 09653 - RESILIENT WALL BASE

- 1.1 Basis of Design: See Contract Documents

SECTION 099000 - PAINTING

1.1 PAINTING

- A. Ferrous Metal: Includes steel doors and frames.
 - 1. Primer: Kem Kromik Universal Metal Primer
 - 2. Finish Coats: ProIndustrial Urethane Alkyd Enamell
 - 3. Color & Sheen Level: See Contract Documents.
- B. Interior: Vertical surfaces -Latex.
 - 1. Primer: Promar 200 Zero VOC Latex Primer.
 - 2. Finish Coats: Promar 200 Zero VOC Interior Latex
 - 3. Textures: Smooth.
 - 4. Color & Sheen Level: To be selected by the Architect.
- C. Exterior: Vertical surfaces - Latex.
 - 1. Primer: Promar 200 Zero VOC latex Primer
 - 2. Finish Coats: Promar 200 Zero VOC Exterior Latex.
 - 3. Textures: Smooth
 - 4. Color & Sheen Level : To be selected by the Architect.

SECTION 99300 - STAINS

- 1.1 Interior stains for doors and trim. See Documents.

DIVISION 10 - SPECIALTIES

SECTION 101423 - SIGNAGE

- 1.1 COORDINATE WITH OWNER VENDOR - CONTRACTOR INSTALLATION
 - A. Interior Signage: \$X,000.00 allowance.
 - 1. Restroom ADA signage, Signage/egress & balance of interior room signage. Contractor to coordinate interior signage with Owner for preferred signage design & vendor.

SECTION 102800 - TOILET AND BATH ACCESSORIES

- 1.1 SEE CONTRACT DOCUMENTS - FINAL APPROVAL VIA SHOP DRAWINGS

SECTION 104416 - FIRE EXTINGUISHERS & CABINETS

- 1.1 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS
 - A. Fire Extinguishers: UL-rated 4A-80B:C; nominal capacity 10 pounds.
 - B. Semi-recessed cabinets.

DIVISION 11 -EQUIPMENT

- 1.1 Security system: \$X,000.00 allowance. Contractor to coordinate and provide security system.
 - A. As Provided by owners vendor.
 - B. Security Alarm to be coordinated with Owner for secure access points, see door schedule for secured access locations.
- 1.2 Audio / Visual
 - A. Audio / Visual: \$X,000.00 allowance.
 - 1. Contractor to provide and install audio / visual in coordination with Owner.

DIVISION 12 -FURNISHINGS

- 1.2 Furniture
 - A. All furniture to be provided and installed by Owner.

DIVISION 27 -COMMUNICATIONS

- A. Telecommunications requirements to be finalized by Owner.
- B. Audio Visual to be coordinated by Contractor with Owner's vendor.

DIVISION 28 -ELECTRONIC SAFETY & SECURITY

- A. Security to be coordinated by Contractor with Owner's vendor.

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ARCHITECTURE•PLANNING•INTERIORS

2401 N. Howard Avenue
Tampa, Florida 33607
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HILLSBOROUGH COUNTY

SHERIFF'S OFFICE

Practical Training Site

Office & Classroom Renovation

in Existing Pavilion

Joseph V. Belluccia, AIA

FL REG AR92396

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JOB NO : 21021

DRAWN BY : RS

ISSUE DATE : 05.26.21

SHEET NAME:
OUTLINE
SPECIFICATIONS

SHEET NUMBER
A-003C

**TOTAL PARKING SPACES PROVIDED
(INCLUDING 2 ACCESSIBLE PARKING SPACES): 35**

3 ACCESSIBLE PARKING SPACE DETAIL- TYP

2 DETAIL - CONCRETE SLAB TYP

**PROJECT TITLE:
HILLSBOROUGH COUNTY SHERIFF'S OFFICE
PRACTICAL TRAINING SITE
OFFICE & CLASSROOM RENOVATION
IN EXISTING PAVILION**

1. EXISTING GREEN AREA TO REMAIN, TYP.
2. EXISTING PARKING SPACE TO REMAIN, U.O.N.
3. EXISTING CONCRETE PAD TO REMAIN
4. EXISTING SINGLE STORY PRE-ENGINEERED METAL BUILDING
5. NEW CONCRETE PAD; MATCH EXISTING/ ALIGN TO EXISTING (AS APPLICABLE); REFER TO DETAIL ON THIS SHEET.
6. NEW CONCRETE PAD 12' X 12' FOR MECH EQUIPMENT. REFER TO MECH DWGS. REFER TO DETAILS THIS SHEET
7. NEW SEPTIC TANK & DRAIN FIELD. REFER TO SEPTIC TANK DWGS UNDER SEPARATE SHEET
8. NEW PARKING LOT LINE RESTRIPTING PER CODE; INCLUDE TWO ACCESSIBLE PARKING SPACES (DOTTED AREA)
9. NEW CONCRETE SIDEWALK; PROVIDE FLUSH TRANSITION TO EXISTING PARKING SURFACE.
10. H.C. PARKING SIGN. REFER TO DETAIL THIS SHEET
11. EXISTING CONC. WHEEL STOP TO REMAIN, U.O.N. RELOCATE AS NECESSARY AT NEW H.C. PARKING LOCATIONS

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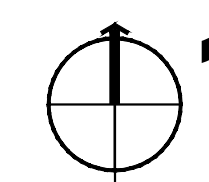
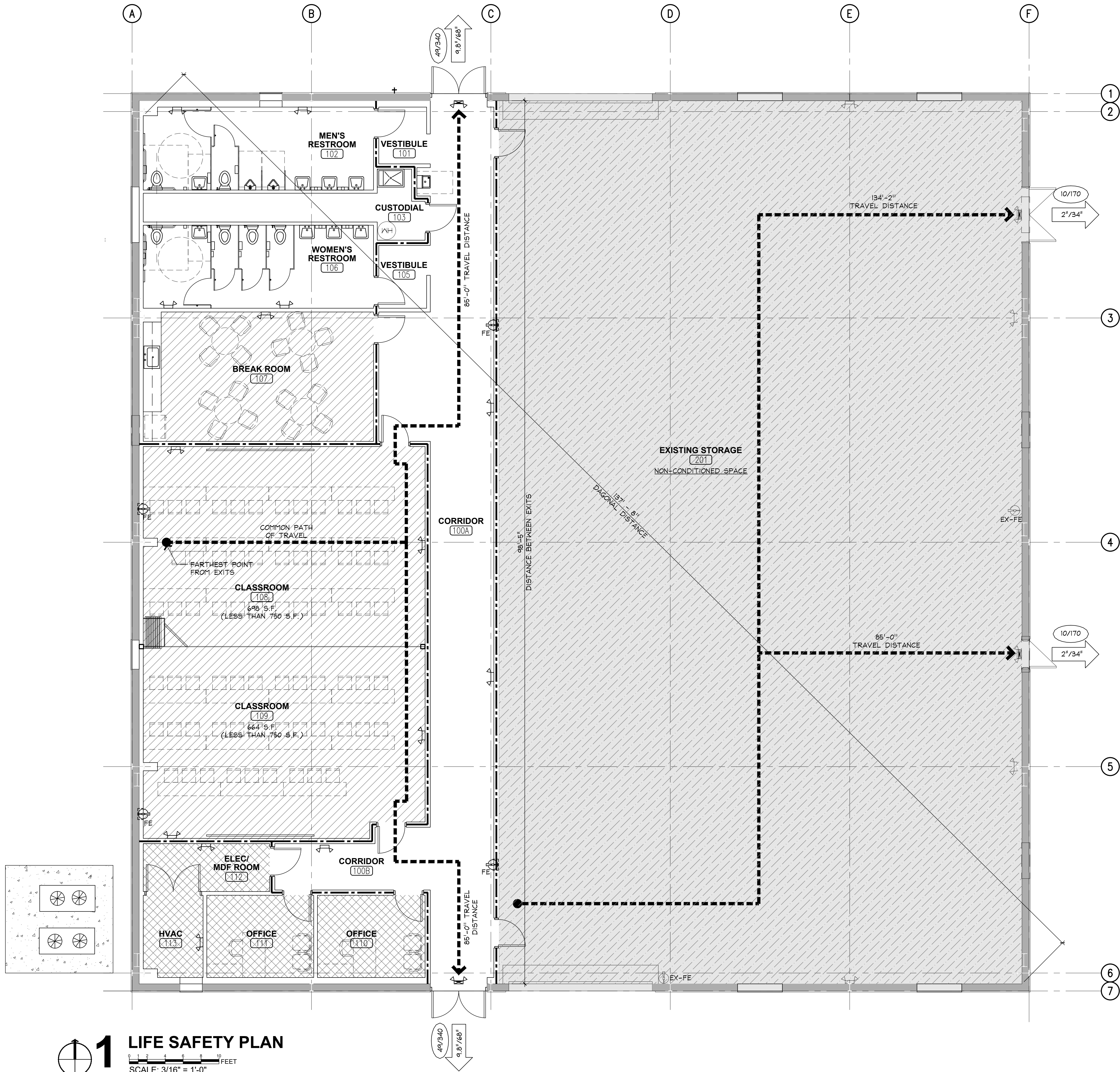
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ISSUE DATE : 05.26.21

SHEET NAME: _____
ARCHITECTURAL
SITE PLAN

HEET NUMBER
AS-100

Dwg Name: 21021 LS-101 & 102.dwg [LS-101] - Printed on Aug 13, 2021 - 11:52AM by JVB-WS-19



1

LIFE SAFETY PLAN

0 1 2 3 4 5 6 7 8 9 10 FEET
SCALE: 3/16" = 1'-0"

GENERAL LIFE SAFETY NOTES

1. FINAL LOCATION AND QUANTITY OF EMERGENCY LIGHTS AND/OR EXIT SIGNS SHALL BE AT THE DISCRETION OF THE AHJ DURING CONSTRUCTION, AND MAY RESULT IN ADDITIONAL FIXTURES. GC SHALL PROVIDE ANY ADDITIONAL FIXTURES AND PREPARED ANY MODIFICATIONS AS REQUIRED BY THE AHJ.
2. PROVIDE EXIT DOOR TACTILE SIGNAGE AT EACH EXIT DOOR REQUIRING AN EXIT SIGN, PER SECTION 7.10.1.3, NFPA 101, FLORIDA FIRE PREVENTION CODE 7TH EDITION.
3. PROVIDE OCCUPANT LOAD POSTING PER SECTION 12.7.9.3, NFPA 101, FLORIDA FIRE PREVENTION CODE 7TH EDITION.
4. PROVIDE EGRESS DOORS WITH PANIC HARDWARE PER SECTION 12.2.2.3, NFPA 101, FLORIDA FIRE PREVENTION CODE 7TH EDITION.
5. EXIT SIGNS SHALL BE LOCATED IN ACCORDANCE WITH NFPA 101 SECTION 7.10, "MARKING OF MEANS OF EGRESS"
6. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE W/ NFPA 10 (VERIFY W/ FIRE MARSHAL). THE PLAN LOCATED FIRE EXTINGUISHERS ARE THE SUGGESTED MINIMUM TO BE VERIFIED BY THE "AUTHORITY HAVING JURISDICTION"

NOTE:

SEE MECHANICAL DRAWING FOR SMOKE & HEAT DETECTORS AS APPLICABLE.

LIFE SAFETY LEGEND

- XX'-X" → TRAVEL DISTANCE TO EXIT
- ← 9.8'/34" EXIT CAPACITY (ACTUAL NO. / MAX. NO. OF PERSONS)
- 49/170 EGRESS WIDTH REQUIRED / EGRESS WIDTH PROVIDED
- EX-FE FIRE EXTINGUISHER W/ SURFACE MOUNTED WALL BRACKET
- FE NEW/RELOCATED FIRE EXTINGUISHER - 5LB. 2A-10B:C IN SEMI-RECESSED CABINET W/ FULL GLASS VISION PANEL
- NOTE: FIRE EXTINGUISHERS TO BE FIELD LOCATED PRIOR TO FINAL CO DURING WALK-THRU WITH LOCAL FIRE INSPECTOR HAVING JURISDICTION.
- PROVIDE SEMI-RECESSED CABINETS FOR EXISTING RELOCATED FIRE EXTINGUISHERS
- EXISTING EXIT LIGHT FIXTURE W/ BATTERY BACK-UP. REFER TO ELECTRICAL DWGS.
- EXISTING EMERGENCY LIGHT FIXTURE W/ BATTERY BACK-UP. REFER TO ELECTRICAL DWGS.
- NEW EXIT LIGHT FIXTURE W/ BATTERY BACK-UP. REFER TO ELECTRICAL DWGS.
- NEW EMERGENCY LIGHT FIXTURE W/ BATTERY BACK-UP. REFER TO ELECTRICAL DWGS.

WALL LEGEND

- EXISTING WALL ASSEMBLY TO REMAIN
- METAL STUD FRAMED WALL. REFER TO PARTITION TYPES
- 1-HR RATED METAL STUD FRAMED WALL (UL DESIGN NO. U465). REFER TO SHEET A-403 FOR UL ASSEMBLY DETAILS. ALSO REFER TO PARTITION TYPES

PARTITION TYPES

REFER TO PARTITION TYPES ON SHEET A-403 FOR ADDITIONAL WALL CONSTRUCTION DETAILS

OCCUPANT LOAD

S-1 AREA 5,737 SF (500 SF PER PERSON)	12 OCCUPANTS
B AREA 357 SF (150 SF PER PERSON)	3 OCCUPANTS
A-3 AREA 1,704 SF (15 PER PERSON)	114 OCCUPANTS
TOTAL OCCUPANT LOAD 129 PERSONS	

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FL REG AR92396

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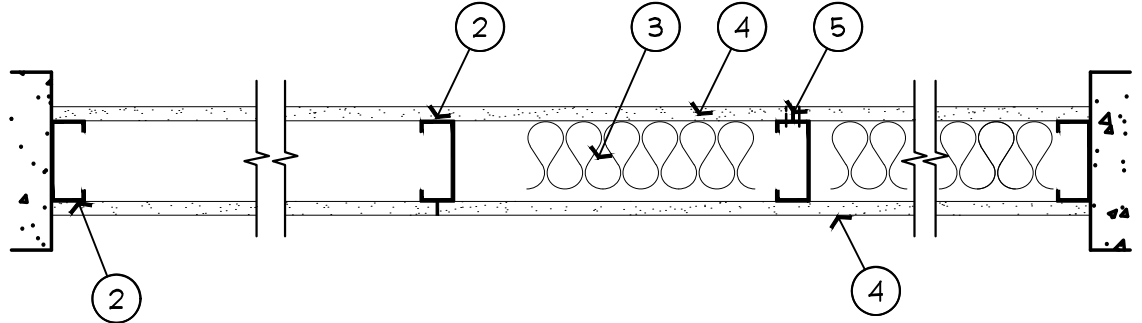
ISSUE DATE : 05.26.21

SHEET NAME:
LIFE SAFETY PLAN

SHEET NUMBER
LS-101

Design No. U465

Nonbearing Wall Rating - 1 HR.



1. FLOOR AND CEILING RUNNERS - (NOT SHOWN) - CHANNEL SHAPED RUNNERS, 6" IN. WIDE (MIN.), 1-5/8 IN. LEGS, FORMED FROM NO. 25 MSG (MIN.) GALV STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS SPACED 24 IN. O.C. MAX.

2. STEEL STUDS - CHANNEL SHAPED, 6" IN. WIDE (MIN.), 1-5/8 IN. LEGS, 3/8 IN. FOLDED BACK RETURNS, FORMED FROM NO. 25 MSG (MIN.) GALV STEEL SPACED 24 IN. O.C. MAX.

3. BATTS AND BLANKETS* - (OPTIONAL) - MINERAL WOOL OR GLASS FIBER BATTS PARTIALLY OR COMPLETELY FILLING STUD CAVITY.

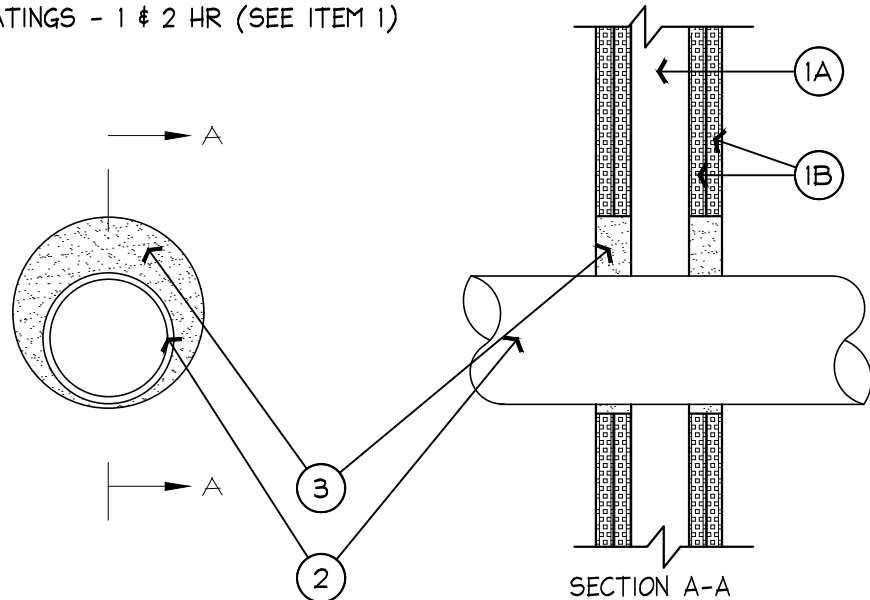
4. WALLBOARD, GYPSUM* - 5/8 IN. THICK, 4 FT. WIDE, ATTACHED TO STEEL STUDS AND FLOOR AND CEILING TRACK WITH 1 IN. LONG, TYPE S SELF-TAPPING STEEL SCREWS SPACED 8 IN. O.C. ALONG EDGES OF BOARD AND 12 IN. O.C. IN THE FIELD OF THE BOARD. JOINTS ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.

5. JOINT TAPE AND COMPOUND - VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS. AS AN ALTERNATIVE, NOMINAL 3/32 IN. THICK GYPSUM VENEER PLASTER MAY BE APPLIED TO THE ENTIRE SURFACE OF CLASSIFIED VENEER BASEBOARD. JOINTS REINFORCED.

#Bearing the UL Classification Marking

UL DESIGN NO. W-L-1098

F RATINGS - 1 & 2 HR (SEE ITEM 1)



1. WALL ASSEMBLY- THE 1 OR 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS & IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL & PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY & SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STEEL CHANNELS STUDS, WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE & SPACED MAX 24 IN. O.C.

B. WALLBOARD, GYPSUM*- THICKNESS, TYPE, NUMBER OF LAYERS & FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL & PARTITION DESIGN. MAX DIAM OF OPENING IS 14-1/8 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH PENETRANTS- ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING & PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 1 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES & SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.

A. STEEL PIPE

B. IRON PIPE

C. CONDUIT-NORM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.

D. COPPER TUBING

E. COPPER PIPE

3. FILL, VOID OR CAVITY MATERIAL*- SEALANT-MIN 5/8 IN. & 1-1/4 IN. THICKNESS OF FILL MATERIAL FOR 1 & 2 HR RATED WALL ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. FIRESTOP SYSTEMS, INC- 4800DW

BEARING THE U.L. CLASSIFICATION MARKING.

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1 ISSUED FOR PERMIT 05.26.21

2 CLARIFICATIONS 08.13.21

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Joseph V. Belluccia, AIA

FL REG AR92396

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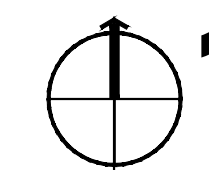
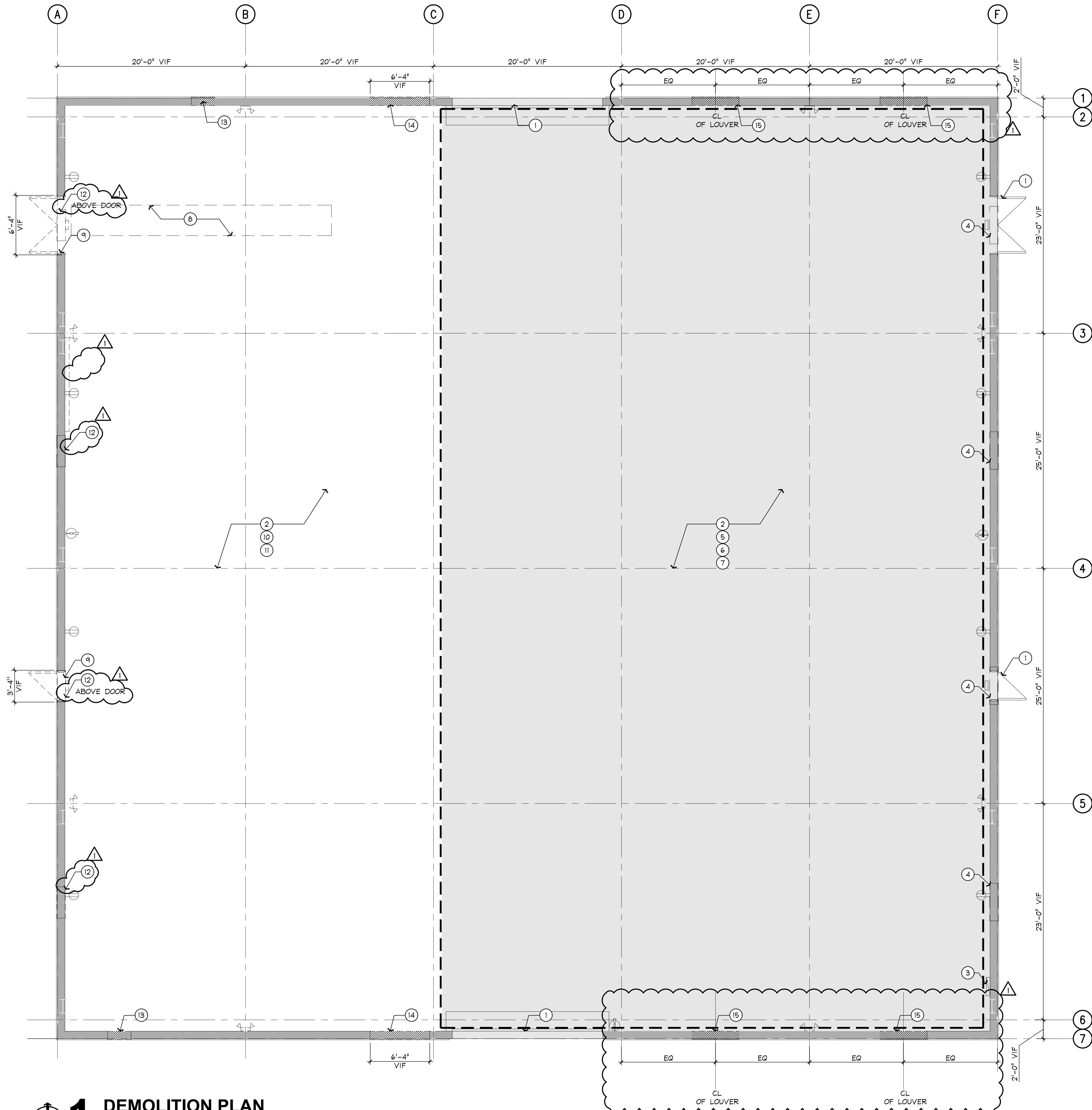
DRAWN BY : XAMR

ISSUE DATE : 05.26.21

SHEET NAME: UL DETAILS

SHEET NUMBER LS-102

Dwg Name: 21021 D-101.dwg [D-101] - Printed on Aug 13, 2021 - 11:52AM, by JVB-WS-19



1 DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

DEMOLITION KEYNOTES

- EXISTING DOOR & DOOR FRAME TO REMAIN
- EXISTING STRUCTURE TO REMAIN, TYP, U.O.N.
- EXISTING ELECTRICAL PANEL TO REMAIN
- EXISTING EXHAUST FAN TO REMAIN
- EXISTING LIGHT FIXTURES TO REMAIN
- EXISTING FIRE EXTINGUISHERS TO REMAIN
- EXISTING EMERGENCY LIGHTS TO REMAIN
- IT IS THE INTENT TO INSTALL PLUMBING LINES ABOVE THE EXISTING FLOOR SLAB. MINIMIZE SLAB CUTTING/DEMOLITION OR AVOID ALTOGETHER IF POSSIBLE (AREA SHOWN FOR REFERENCE ONLY). REFER TO PLUMBING DWGS.
- REMOVE EXISTING DOOR, DOOR FRAME, EMERGENCY SIGN & EMERGENCY LIGHT FIXTURE; PREPARE WALL TO RECEIVE NEW INFILL.
- REMOVE EXISTING LIGHT FIXTURES & ASSOCIATED ELECTRICAL WIRING, SWITCHES, ETC.
- REMOVE AND RELOCATE EXISTING ELECTRICAL OUTLET. COORDINATE NEW LOCATION WITH ELECTRICAL DWGS.
- REMOVE/RELOCATE LOUVERS; REFER TO MECHANICAL DWGS.
- PROVIDE NEW OPENING ON EXISTING WALL AND PREPARE TO RECEIVE NEW LOUVER; REFER TO MECH DWGS.
- PROVIDE NEW OPENING ON EXISTING WALL AND PREPARE TO RECEIVE NEW STOREFRONT DOOR; REFER TO DOOR SCHEDULE.
- PROVIDE NEW OPENING ON EXISTING WALL AND PREPARE TO RECEIVE EXISTING LOUVER TO BE RELOCATED; REFER TO MECH DWGS.

DEMOLITION GENERAL NOTES

- IF DEMOLITION COMMENCES PRIOR TO PERMIT, GC SHALL OBTAIN DEMO PERMITS AND INCLUDE ALL COSTS OF SAME IN CONTRACT PRICE, IF REQUIRED.
- FURNISH ALL LABOR AND MATERIALS AS REQUIRED TO COMPLETE DEMOLITION AND REMOVAL OF ALL ITEMS AS INDICATED.
- PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM EMANATING FROM DEMOLITION AREA. KEEP AREA CLEAN.
- IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH THE ARCHITECT BEFORE PROCEEDING.
- AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL SHALL BE REMOVED ENTIRELY FROM THE CONSTRUCTION SITE ON A DAILY BASIS TO WASTE AREA PROVIDED BY THE CONTRACTOR.
- CLEAN ENTIRE SPACE, EVEN IF NOT PART OF CONSTRUCTION WORK.
- DEBRIS REMOVAL MUST BE PERFORMED IN ACCORDANCE WITH LANDLORD & BUILDING MANAGEMENT REQUIREMENTS AND PROCEDURES.
- SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING PLANS TO COORDINATE SLAB PENETRATIONS FOR PLUMBING FIXTURES & MECHANICAL EQUIPMENT, WHERE APPLICABLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR REPAIRING ANY DAMAGE CAUSED BY HIM OR HIS SUBCONTRACTORS TO EXISTING CONSTRUCTION, OR TENANT SPACES. REFINISH TO MATCH EXISTING ADJACENT FINISH, OR AS NOTED HEREIN.
- EXISTING SMOKE DETECTOR, PUBLIC ADDRESS SPEAKER, FIRE ALARM BOX OR SIMILAR DEVICE, INCLUDING THE ASSOCIATED WIRING SHALL NOT BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION. RELOCATION OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIPMENT, NECESSITATED BY NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIORITY, AND PER THE PLANS. ACTIVE SMOKE DETECTOR SHALL NOT BE COVERED OR OTHERWISE REMOVED OR USED FOR OTHER THAN IT'S INTENDED PURPOSE.
- REMOVE TO SOURCE ALL PIPES, VENTS, APPLIANCES OR DRAINS NOT BEING RE-USED.
- REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT PERTAINING TO DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WITH TELEPHONE COMPANIES, SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENTATIVE AS REQUIRED TO PREVENT NEW CONSTRUCTION DELAYS.
- DEMOLITION IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON DRAWINGS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- CONTRACTOR TO COORDINATE LOCATION OF DUMP SITE & ALL DEMO WORK WITH LANDLORD.

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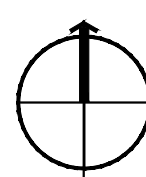
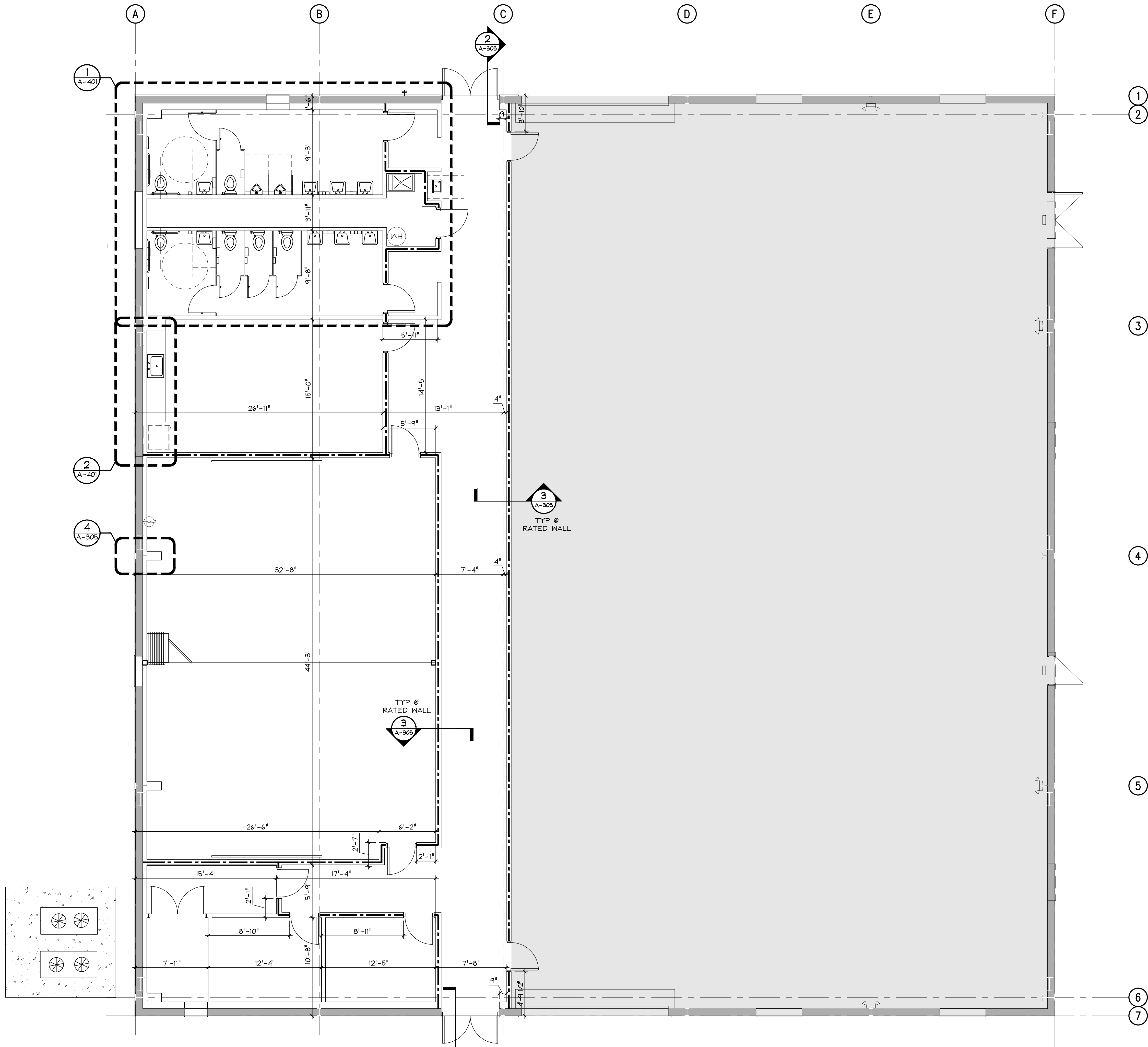
DRAWN BY : XAMR

ISSUE DATE : 05.26.21

SHEET NAME:
DEMO FLOOR PLAN

SHEET NUMBER
D-101

Dwg Name: 21021 A-101 - A-102.dwg [A-101] - Printed on Aug 13, 2021 - 11:54AM by JVB-WS-19



1 DIMENSION PLAN

SCALE: 3/16" = 1'-0"

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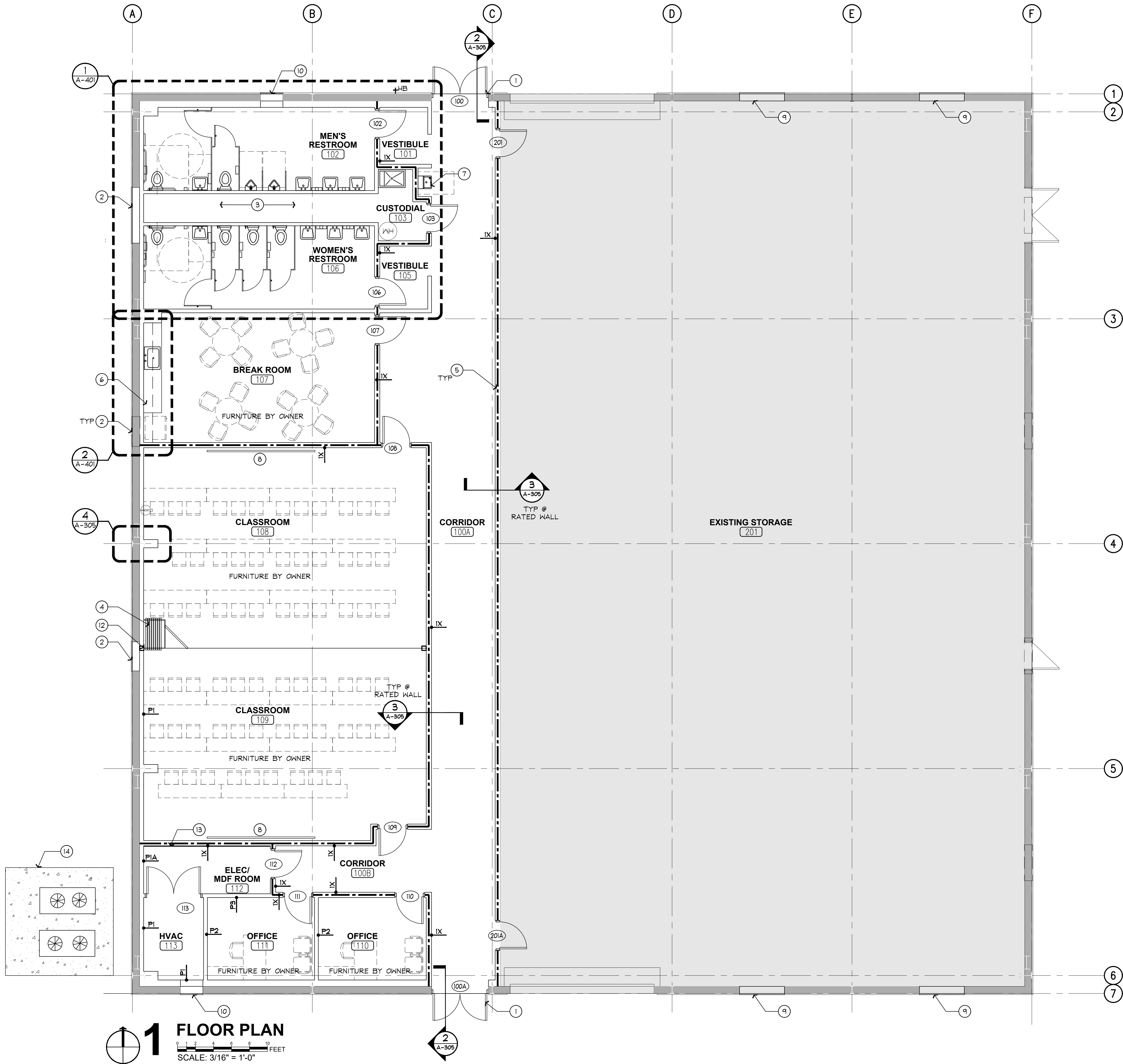
DRAWN BY : KP

ISSUE DATE : 05.26.21

SHEET NAME:
DIMENSION PLAN

SHEET NUMBER
A-101

Dwg Name: 21021 A-101 - A-102.dwg [A-102] - Printed on Aug 13, 2021 - 11:54AM by JVB/WS-19



1 FLOOR PLAN
SCALE: 3/16" = 1'-0"
FEET

CONSTRUCTION GENERAL NOTES

- DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS GOVERN. ALL PARTITION LOCATIONS SHALL BE AS SHOWN ON PARTITION PLAN. IN CASE OF CONFLICT NOTIFY ARCHITECT. PARTITION PLAN BY ARCHITECT TAKES PRECEDENCE OVER ALL OTHER PLANS.
- ALL NEW GYPSUM BOARD PARTITIONS SHALL BE TAPED AND SANDED SMOOTH WITH NO VISIBLE JOINTS. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED. ALL SURFACES SHALL BE ALIGNED AND SANDED SMOOTH.
- ALL PARTITIONS ARE DIMENSIONED FROM FINISH FACE OF GYPSUM BOARD TO FINISH FACE OF GYPSUM BOARD UNLESS OTHERWISE NOTED. ALL DIMENSIONS MARKED "CLEAR" OR "CLR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESSES OF ALL WALL FINISHES, U.O.N.
- DIMENSIONS NOTED "CLEAR" OR "CLR" MUST BE ACCURATELY MAINTAINED AND SHALL NOT VARY MORE THAN $\pm 1/8"$ WITHOUT WRITTEN INSTRUCTION FROM ARCHITECT.
- DIMENSIONS MARKED (\pm) MEAN A TOLERANCE NOT GREATER NOR SMALLER THAN 2 INCHES FROM INDICATED DIMENSION. U.O.N. VERIFY FIELD DIMENSIONS EXCEEDING TOLERANCE WITH THE ARCHITECT. SECURE ARCHITECT'S APPROVAL.
- NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS IN THE LOCATION(S) OF NEW CONSTRUCTION. UPON COMPLETION OF LAYOUT OF THE PARTITION, NOTIFY THE ARCHITECT. VERIFICATION OF THE LAYOUT TO BE PROVIDED BY THE ARCHITECT PRIOR TO PARTITION INSTALLATION.
- ALL EXPOSED GYPSUM BOARD EDGES TO HAVE METAL EDGE TRIM.
- ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE, AND IN PROPER ALIGNMENT.
- OBTAIN APPROVAL FROM OWNER PRIOR TO MODIFYING BUILDING COMPONENTS, SYSTEMS AND ITEMS NOT IDENTIFIED PRIOR TO ADJUSTING ANY AND ALL OTHER FIELD CONDITIONS REQUIRED TO FIT PLANS.
- ALL EXISTING AND NEW FLOOR SLAB PENETRATIONS FOR PIPING SHALL BE FULLY PACKED AND SEALED IN ACCORDANCE WITH THE APPLICABLE BUILDING AND FIRE CODES.
- TRIM THE BOTTOMS OF DOORS TO CLEAR THE TOP OF FINISHED FLOOR, AS APPLICABLE, BY 1/2" INCH MAXIMUM, U.O.N. VERIFY SLAB CONDITIONS. TRIM EACH DOOR TO FIT CONDITION. WHERE RADICAL VARIATIONS IN FLOOR ELEVATION EXIST, DOORS SHALL BE ORDERED WITH BOTTOM STILE SIZED TO ACCOMMODATE THESE UNDERCUT CONDITIONS.
- ALL INTERIOR GLASS SHALL BE CLEAR TEMPERED GLASS, U.O.N. GLAZING TONG MARKS SHALL NOT BE VISIBLE. CLEAN AND POLISH ALL GLASS PRIOR TO PROJECT DELIVERY.
- FULL HEIGHT PARTITIONS SHALL BE INSTALLED TIGHT TO STRUCTURE ABOVE; WITH NO JOINTS VARYING MORE THAN 1/8" OVER 6'-0" AND NO JOINTS GREATER THAN 3/16", U.O.N.
- "ALIGN" MEANS TO ACCURATELY LOCATE FINISHED FACES IN THE SAME PLANE.
- DIMENSIONS LOCATING DOORS ARE TO THE INSIDE EDGE OF JAMB U.O.N.
- ALL DOORS SHALL HAVE 1'-0" CLR. ON STRIKE/PULL SIDE OF DOOR. VERIFY AND REPORT TO ARCHITECT OF EXCEPTIONS PRIOR TO CLOSING OUT PARTITIONS.

TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID.

FLOOR PLAN KEYNOTES (#)

- NEW DOOR & DOOR FRAME; PROVIDE NEW MTL STUD FRAMING AS NEEDED AT PERIMETER OF NEW OPENING; REFER TO DOOR SCHEDULE
- NEW WALL INFILL, FRAMING, METAL PANEL & INSULATION (WHERE EXISTING DOOR OR MECHANICAL LOUVER/EXHAUST FAN HAS BEEN REMOVED) TO MATCH EXISTING
- NEW PLUMBING CHASE; REFER TO PARTITION TYPES
- NEW FOLDING PARTITION; BOD: HUFCOR 600 SERIES PAIRED PANELS SINGLE OPENING MANUAL OPERATION MIN. STC 50; REF TO STRUCTURAL DETAILS.
- 1-HOUR RATED WALLS; REFER TO UL DETAILS
- REFER TO SHEET A-801 FOR MILLWORK DETAILS & FINISHES
- ADA COMPLIANT DRINKING FOUNTAIN; REFER TO PLUMBING DWGS
- PROVIDE CEILING MOUNTED ROLL DOWN SCREEN AT EACH CLASSROOM COORDINATE WITH OWNER.
- RELOCATED LOUVERS. REFER TO MECH. DWGS. PROVIDE NEW EXTERIOR WALL FRAMING AROUND MECHANICAL EQUIPMENT AS NEEDED
- NEW LOUVER. REFER TO MECH. DWGS. NEW EXTERIOR WALL FRAMING AROUND MECHANICAL EQUIPMENT TO BE PROVIDED BY THE PEIMB VENDOR.
- NOT USED
- STEEL TUBE SUPPORT FOR MOVABLE PARTITION (AT BOTH SIDES), ATTACHED TO STRUCTURE ABOVE; REFER TO STRUCTURAL DETAILS.
- PROVIDE FIRE RETARDANT TREATED PLYWOOD SHEATHING OVER GYPSUM BOARD AS REQUIRED FOR IT EQUIPMENT.
- CONDENSERS ON CONCRETE PAD; REFER TO MECH DWGS.

WALL LEGEND

- EXISTING WALL ASSEMBLY TO REMAIN
- METAL STUD FRAMED WALL, PARTIAL HEIGHT. REFER TO PARTITION TYPES
- 1-HR RATED METAL STUD FRAMED WALL (UL DESIGN NO. U465). REFER TO LIFE SAFETY PLANS FOR UL ASSEMBLY DETAILS. ALSO REFER TO PARTITION TYPES

PARTITION TYPES

REFER TO PARTITION TYPES ON SHEET A-401 FOR ADDITIONAL WALL CONSTRUCTION DETAILS

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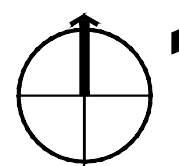
DRAWN BY : XAMR

ISSUE DATE : 05.26.21

SHEET NAME:
ARCHITECTURAL
FLOOR PLAN

SHEET NUMBER
A-102

Dwg Name: 21021 A-110.dwg [A-110] Printed on Aug 13, 2021 - 11:55AM, by JVB-WS-19



1 REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"



CEILING FINISH SCHEDULE

- | | |
|-----------|--|
| 1 1' X 2' | CEILING TYPE & ELEVATION MARKER |
| 1. | 2'X2' CEILING GRID SYSTEM W/ ACOUSTIC CEILING PANEL;
BOD: ROCKFON |

GENERAL REFLECTED CEILING NOTES

- COORDINATE THE WORK OF ALL TRADES INVOLVED IN THE CEILING WORK TO INSURE CLEARANCES FOR FIXTURES, DUCTS, PIPING, CEILING SUSPENSION SYSTEM, ETC., NECESSARY TO MAINTAIN THE FINISHED CEILING HEIGHTS INDICATED ON ARCHITECT'S DRAWINGS. VERIFY IN FIELD.
- PERIMETER CEILING ANGLE, WHERE OCCURS, SHALL BE INSTALLED TIGHT TO VERTICAL SURFACES, FREE FROM CURVES, BREAKS OR OTHER IRREGULARITIES & PAINTED TO MATCH CEILING FINISH. FURNISH & INSTALL ALL FIXTURES ASSOCIATED TRIM, FIXTURE LAMPS & SEISMIC BRACING AS REQUIRED.
- LIGHT FIXTURES, EXIT SIGNS, SPRINKLERS & OTHER CEILING ELEMENTS (AS APPLICABLE) SHALL BE LOCATED IN CENTER OF INDIVIDUAL CEILING TILE U.O.N.
- ALL SWITCHES & DIMMERS (AS APPLICABLE) SHALL BE LOCATED 38" ABOVE FINISHED FLOOR TO CENTER OF SWITCH U.O.N. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER & FINISHED WITH ONE COVER PLATE U.O.N.
- ALL CEILING HEIGHTS ARE DIMENSIONED FROM TOP OF FINISHED FLOOR TO BOTTOM OF CEILING TILE & SHALL ALLOW FOR THICKNESS OF ALL FLOOR FINISHES.
- THE REFLECTED CEILING PLAN INDICATES THE LOCATION OF CEILING HEIGHTS, LIGHT TYPES, LIGHT FIXTURES, & ASSOCIATED ITEMS. REFER TO ENGINEERING DRAWING (LIGHTING PLAN) FOR CIRCUITING, WIRING LAYOUT & ADDITIONAL INFORMATION.
- IN THE EVENT OF DISCREPANCIES BETWEEN THE ARCHITECT'S REFLECTED CEILING PLAN & THE ENGINEER'S LIGHTING PLAN, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING BEFORE ORDERING MATERIALS OR PROCEEDING WITH WORK.
- ALL SPECIFIC INFORMATION CONCERNING INSTALLATION OF VARIOUS ABOVE-CEILING ELEMENTS ARE TO BE FOUND IN THE HVAC, PLUMBING, ELECTRICAL & LIGHTING DWGS.
- NOTIFY ARCHITECT OF ANY CONFLICTS OF LIGHT FIXTURE LOCATIONS WITH MAIN RUNNERS, DUCTS, STRUCTURES, HVAC, &/OR (E) CONDUIT, PRIOR TO FRAMING FOR LIGHTS. ANY DISCREPANCIES BETWEEN ARCHITECT'S CEILING GRID LOCATION & ACTUAL FIELD CONDITIONS ARE TO BE CLARIFIED WITH THE ARCHITECT PRIOR TO FRAMING.
- SUBMIT GRILLE, SPRINKLER, THERMOSTAT, & OTHER FIXTURE & ELEMENT LAYOUTS (AS APPLICABLE) TO THE ARCHITECT FOR REVIEW AT LEAST 2 WEEKS PRIOR TO INSTALLATION.
- VERIFY FIELD CONDITIONS & LOCATIONS OF ALL PLUMBING, MECHANICAL DUCTS, STRUCTURAL ELEMENTS & ANY & ALL OTHER APPLICABLE ITEMS; INSTALL APPLICABLE NEW PLUMBING, MECHANICAL FANS, DUCTS, CONDUITS, & OTHER RELATED & APPURTENANT ITEMS SO AS TO NOT CONFLICT WITH LUMINAIRES & ANY & ALL FIELD CONDITIONS.
- FURNISH & INSTALL UNDERWRITERS LABORATORIES INC. (UL) LABELED DEVICES THROUGHOUT.
- INSTALL LIGHT FIXTURES WITH PROTECTIVE FILM OR SIMILAR COVER OVER LOUVER, LENS, BAFFLE, & THE LIKE, TO AVOID FIXTURE SOILING OR DAMAGE; FIXTURES SHALL BE MAINTAINED CLEAN & AS NEW.
- REFER TO ENGINEERING DRAWINGS FOR ALL LIFE SAFETY DEVICES REQUIRED BY CODE & ALL EMERGENCY LIGHT FIXTURES. ARCHITECTURAL DRAWINGS SHALL GOVERN LOCATION OF THESE DEVICES.
- ARCHITECTURAL DRAWINGS DETERMINE LOCATION & TYPE OF ALL FIXTURES & TAKE PRECEDENCE OVER ALL OTHERS U.O.N.

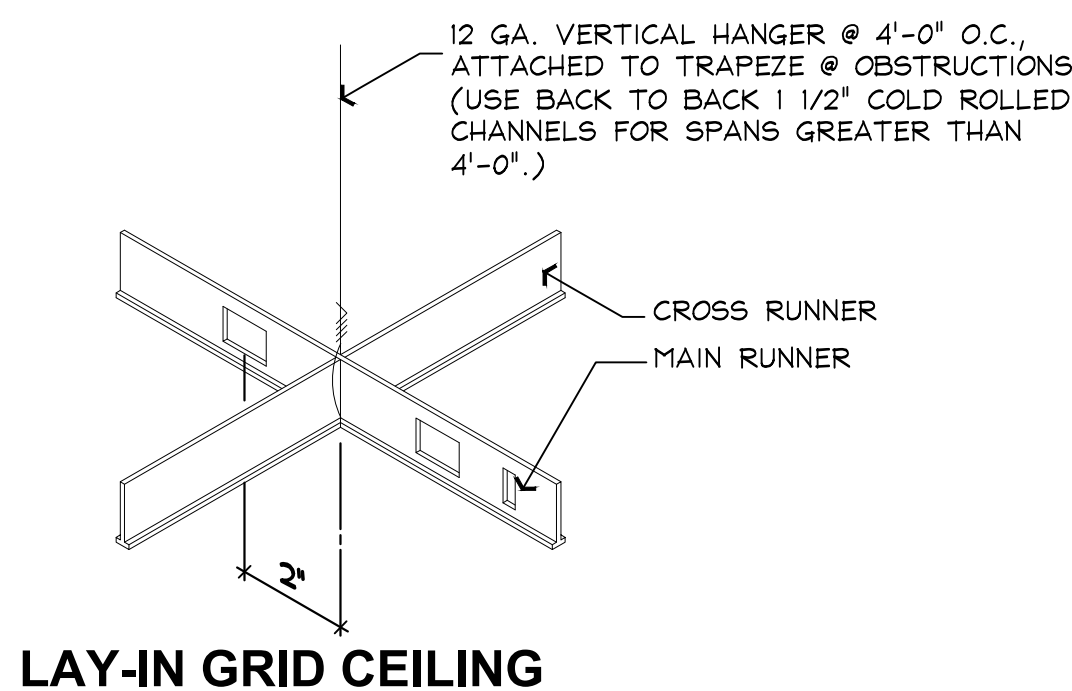
CEILING & FIXTURE LEGEND

- | | |
|--|---|
| | EXIT LIGHT FIXTURE W/ BATTERY BACK-UP. REFER TO ELEC. DWGS. FOR SPECIFICATIONS |
| | EMERGENCY LIGHT FIXTURE W/ BATTERY BACK-UP. REFER TO ELEC. DWGS. FOR SPECIFICATIONS |
| | LINEAR LED VAPOR TIGHT FIXTURE. REFER TO ELEC. DWGS. FOR SPECIFICATIONS |
| | 2'-0" x 4'-0" LAY-IN LED LIGHT FIXTURE. REFER TO ELEC. DWGS. FOR SPECIFICATIONS |
| | 2'-0" x 2'-0" LAY-IN LED LIGHT FIXTURE. REFER TO ELEC. DWGS. FOR SPECIFICATIONS |
| | A/C SUPPLY AIR DIFFUSER. REFER TO MECH. DWGS. |
| | A/C RETURN AIR GRILL. REFER TO MECH. DWGS. |
| | 2' X 2' ACOUSTICAL CEILING TILE (ACT). REFER TO FINISH SCHEDULE |

REFLECTED CEILING PLAN KEYNOTES (#)

- GYPSUM BOARD SUPPORT BULKHEAD FOR BI-FOLD PARTITION; REFER TO DETAIL 1 ON SHEET A-306
- NO CEILING; EXPOSED TO STRUCTURE ABOVE
- PROVIDE 1 PROJECTOR AT EACH TRAINING ROOM (BY OWNERS VENDOR).
- PROVIDE 1 CEILING MOUNTED ROLL DOWN SCREEN AT EACH TRAINING ROOM; INSTALL PER MFR STANDARDS, PROVIDE BLOCKING AS REQUIRED.
- 8'-0" TALL GYPSUM BOARD BULKHEAD

SUSPENDED CEILING SUPPORT DETAILS



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1 ISSUED FOR PERMIT	05.26.21
2 CLARIFICATIONS	08.13.21
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REVISIONS	
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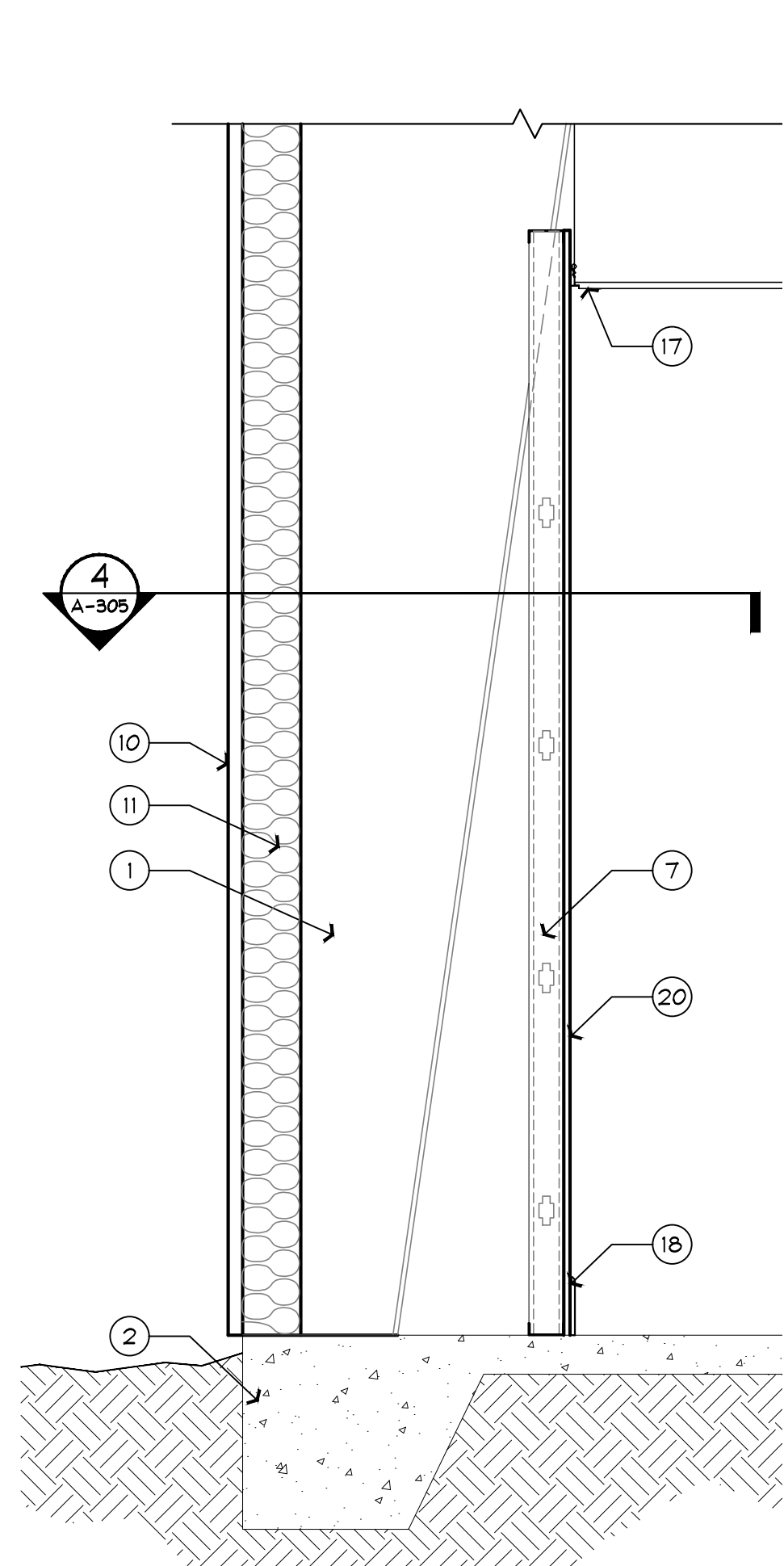
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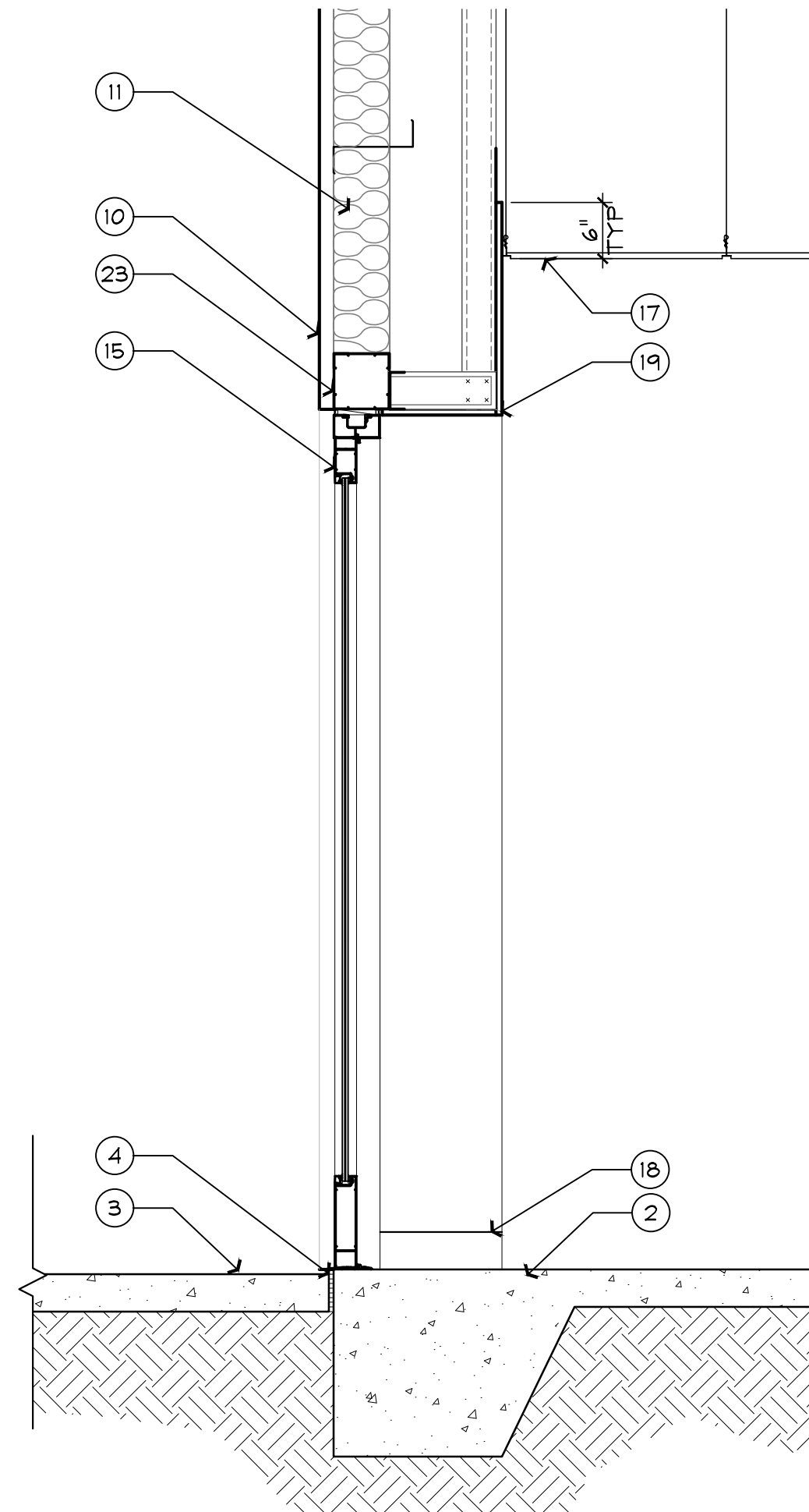
Joseph V. Belluccia, AIA
FL REG AR92396

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

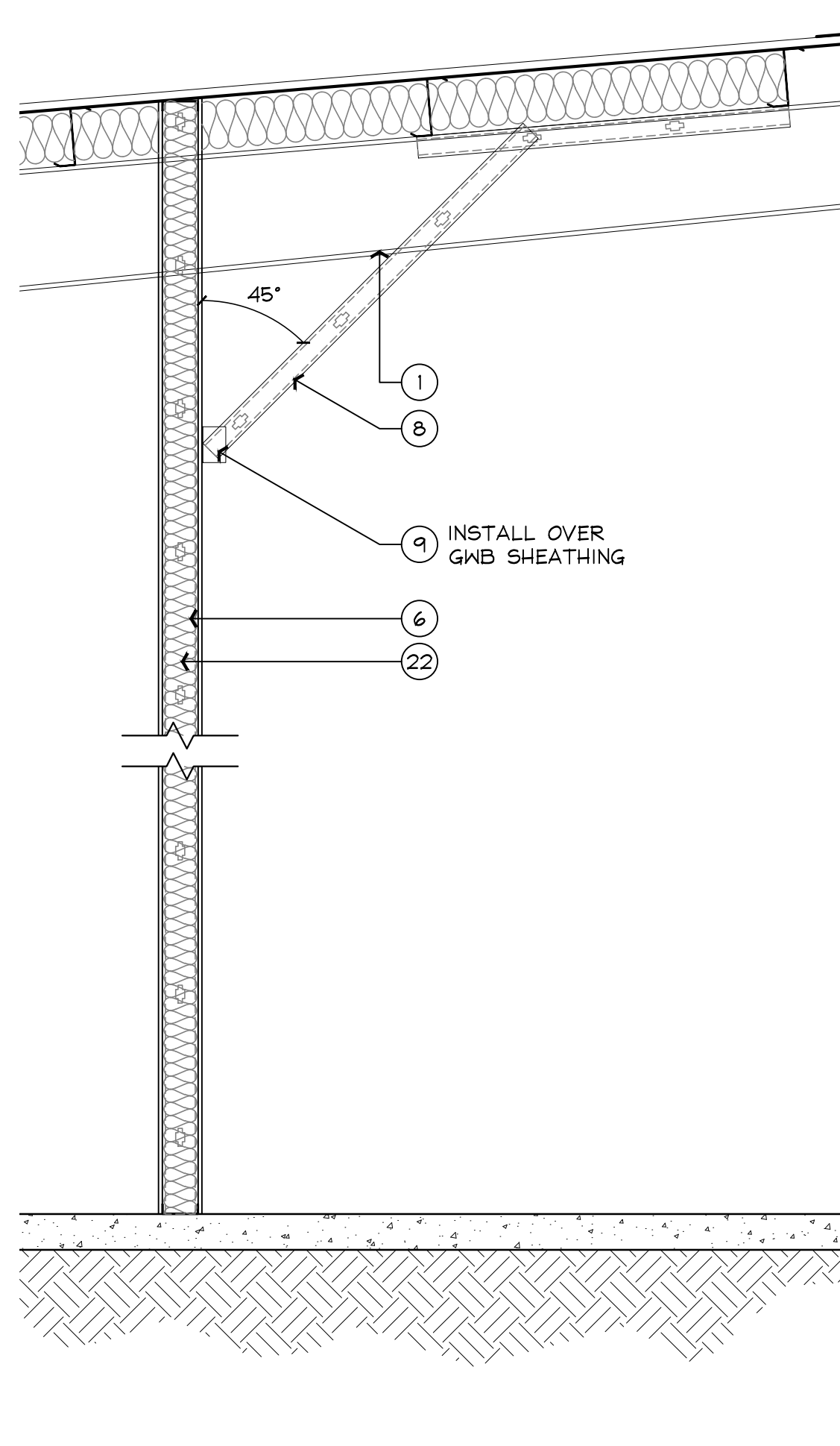
JOB NO : 21021
DRAWN BY : XAMR
ISSUE DATE : 05.26.21
SHEET NAME:
REFLECTED CEILING PLAN
SHEET NUMBER
A-110



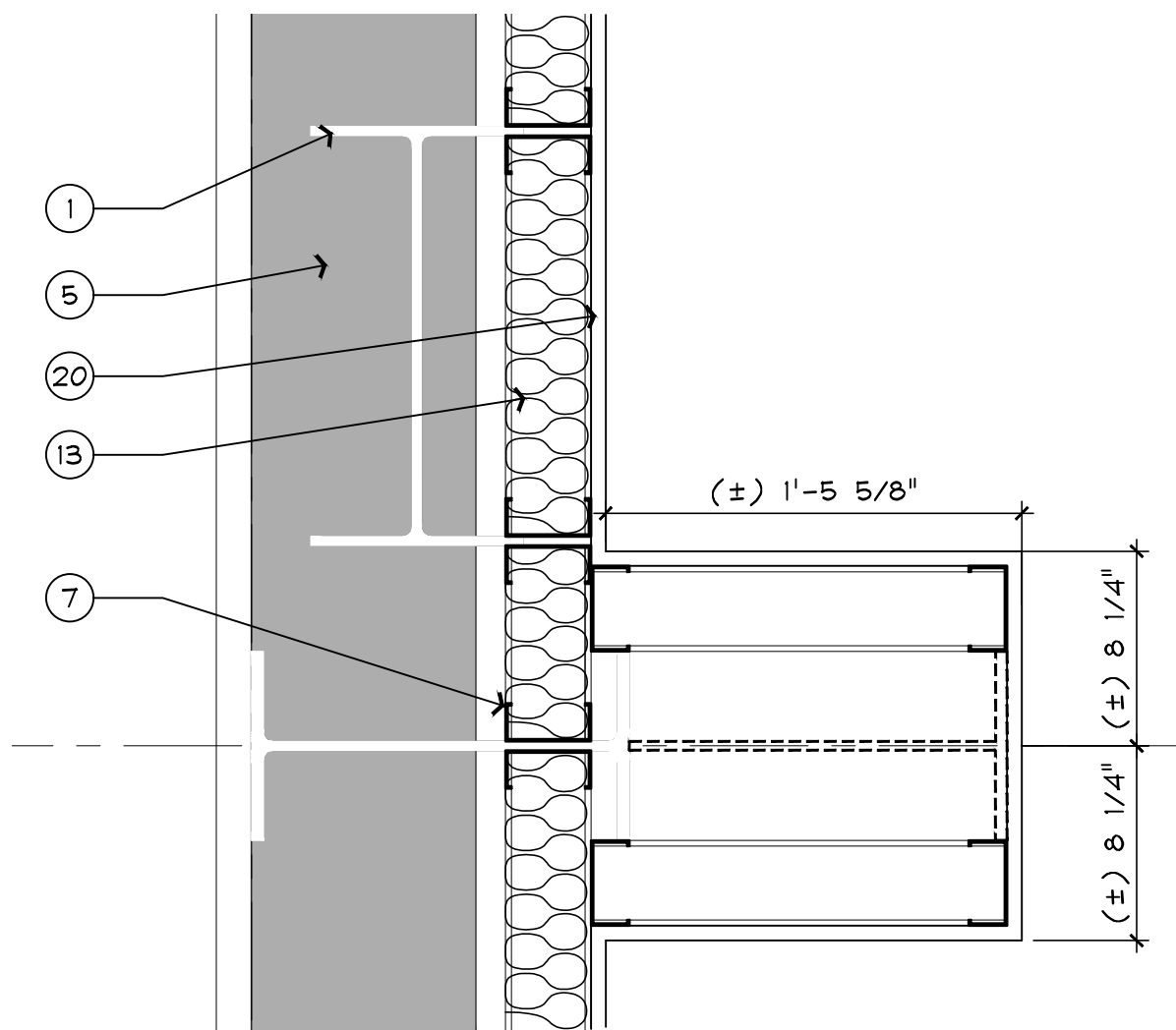
1 SECTION @ EXISTING COLUMN
SCALE: 3/4" = 1'-0"



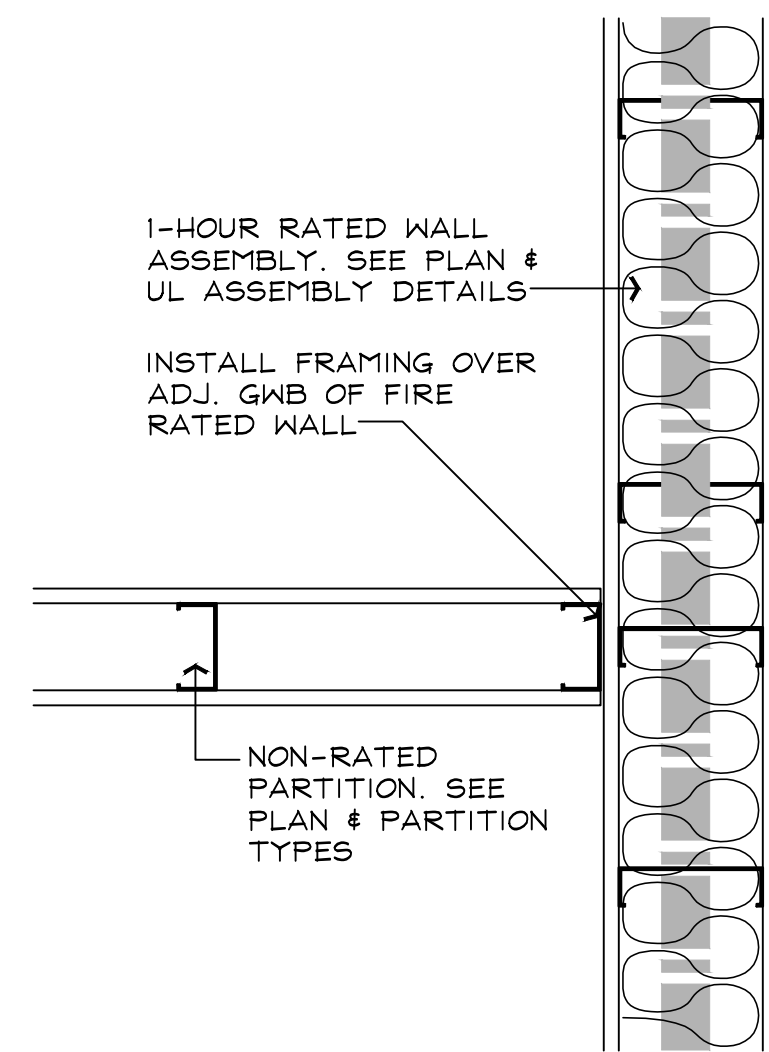
2 SECTION @ NEW DOOR
SCALE: 3/4" = 1'-0"



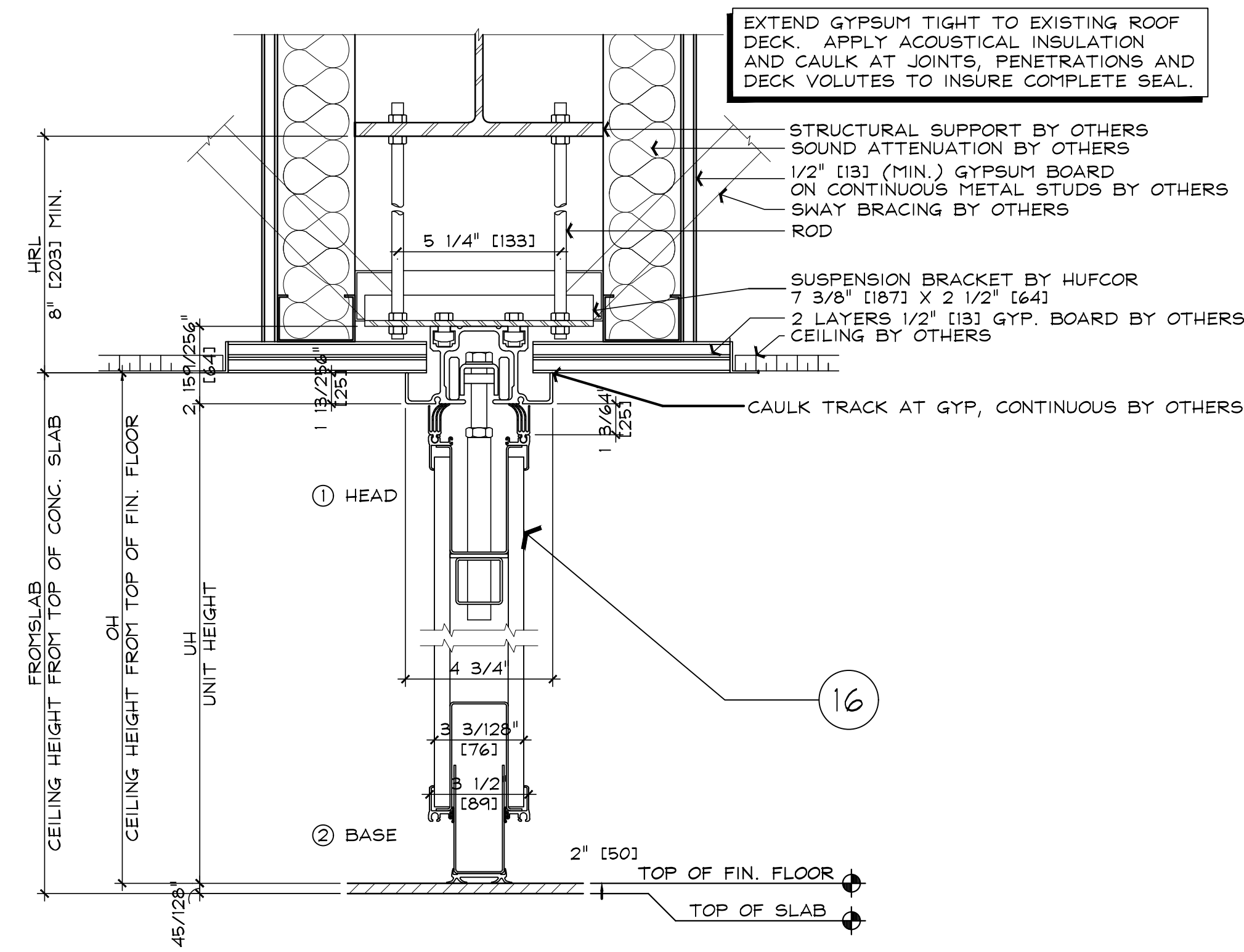
3 TYP. SECTION @ FIRE RATED WALL
SCALE: 1/2" = 1'-0"



4 EXISTING COLUMN FURRING DETAIL
SCALE: 1-1/2" = 1'-0"



5 CONNECTION DETAILS @ RATED WALLS
SCALE: 1-1/2" = 1'-0"



6 BULKHEAD @ BI-FOLD PARTITION
SCALE: N.T.S.

WALL SECTION KEY NOTES

- THE FOLLOWING KEYNOTES ARE APPLICABLE TO SHEETS A-305 & A-306. NOT ALL NOTES MAY APPEAR ON EVERY SHEET. REFER TO ASSOCIATED DRAWINGS FOR APPLICABLE KEYNOTES.
- EXISTING STRUCTURAL FRAMING TO REMAIN
 - EXISTING CONC. SLAB AND TURN DOWN TO REMAIN
 - NEW CONCRETE PAD
 - EXPANSION JOINT
 - EXISTING WALL ASSEMBLY TO REMAIN; PROTECT
 - 18GA (INTERIOR) METAL STUD FRAMING.
 - 20GA (INTERIOR) METAL STUD FRAMING AT 16" O.C.
 - DIAGONAL BRACING/KICKERS.
 - CLIP ANGLES
 - EXISTING METAL PANELS TO REMAIN.
 - EXISTING INSULATION TO REMAIN; REPLACE AS NECESSARY
 - N/A
 - BATT INSULATION
 - N/A
 - ALUM. STOREFRONT DOOR. REFER TO FRAME OPENING SCHEDULE AND HEAD/JAMB/SILL DETAILS
 - FOLDING PARTITION; BOD: HUFCOR PAIRED PANELS SINGLE OPENING MANUAL OPERATION; REF TO STRUCTURAL DETAILS. INSTALL PER MFR STANDARDS
 - SUSPENDED ACOUSTIC CEILING TILE (ACT-1). SEE REFLECTED CEILING PLAN
 - WALL BASE PER FINISH SCHEDULE (AS APPLICABLE)
 - CONT. CORNER BID, TYP.
 - 5/8" GWB
 - 5/8" TYPE-X GWB
 - NEW 1-HOUR RATED WALL ASSEMBLY @ CORRIDOR; REFER TO UL DETAILS
 - 18 GA. MTL STUD BOX BEAM.
- TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID

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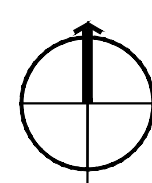
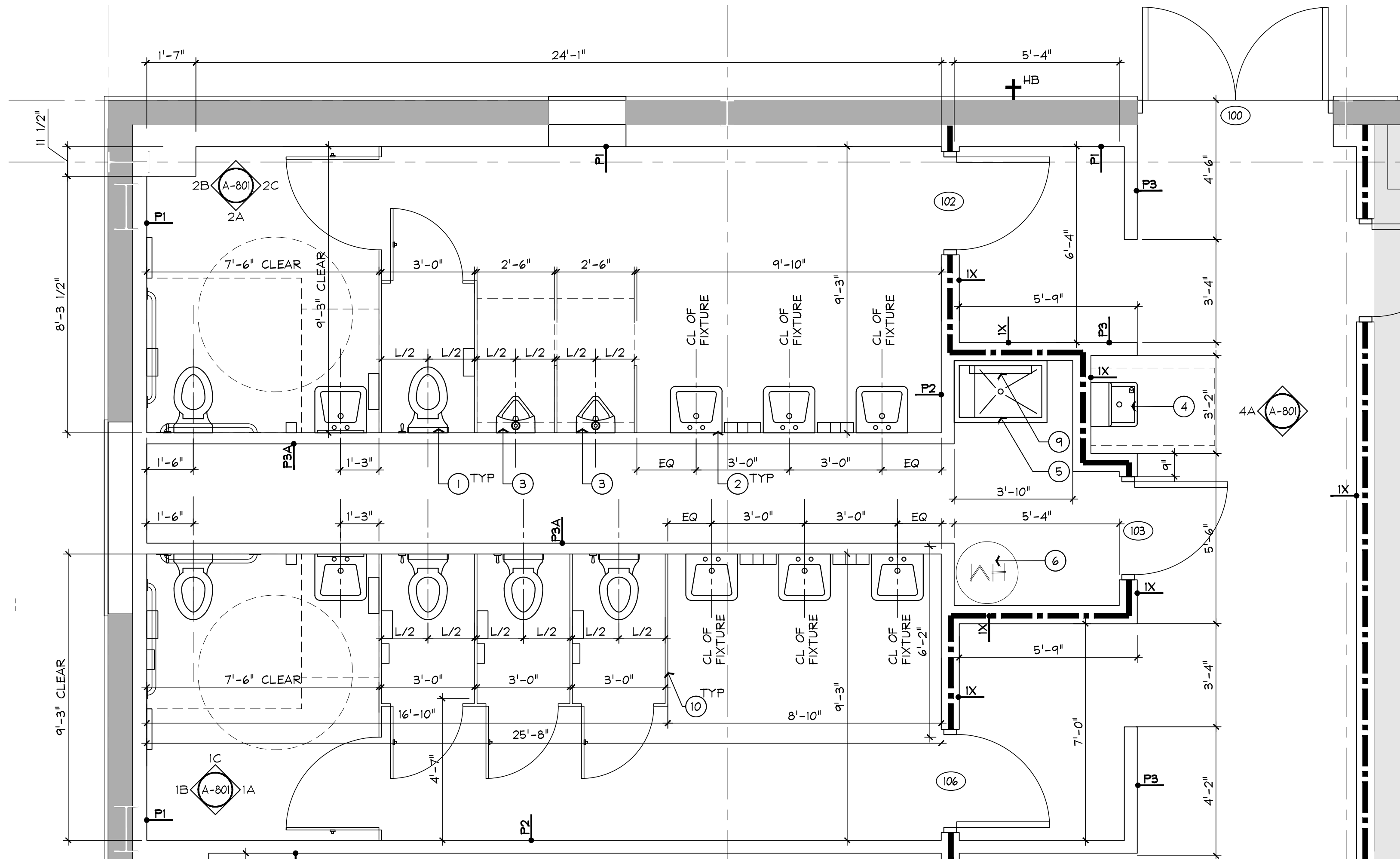
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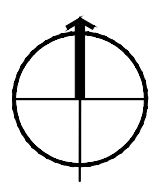
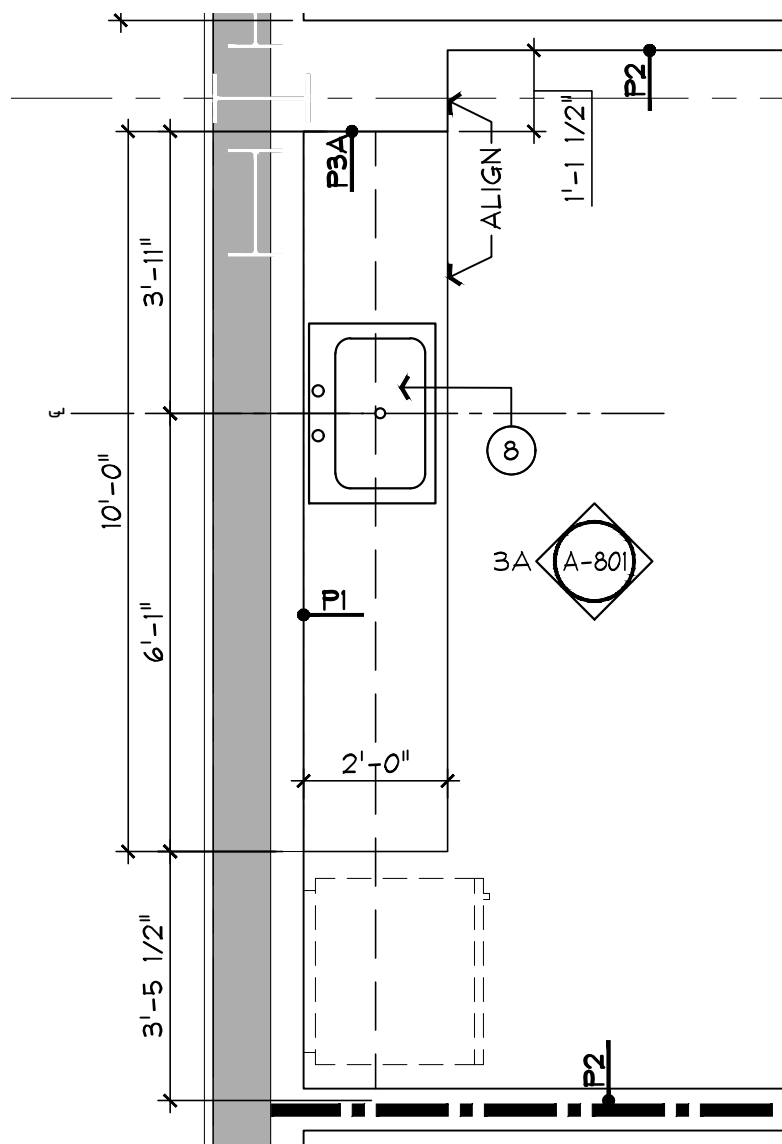
SHEET NAME:
WALL SECTIONS
& DETAILS

SHEET NUMBER
A-305



1 ENLARGED RESTROOMS PLAN

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



2 ENLARGED MILLWORK PLAN

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

ENLARGED PLAN KEYNOTES

1. WALL MOUNTED FLUSH VALVE W/ SENSOR WATER CLOSET. REFER PLUMBING DWGS.
2. WALL MOUNTED LAVATORY W/ SENSOR. REFER TO PLUMBING DWGS.
3. URINAL. REFER TO PLUMBING DWGS.
4. ADA COMPLIANT ELECTRIC WATER COOLER WITH BOTTLE FILLER. REFER TO PLUMBING DWGS.
5. MOP SINK WITH STAINLESS STEEL SPLASH GUARD PLATES ON ADJACENT WALLS. REFER TO PLUMBING DWGS.
6. WATER HEATER. REFER TO PLUMBING DWGS.
7. PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH; REFER TO SHEET A-801
8. STAINLESS STEEL SINK; REFER TO PLUMBING DWGS.
9. MOP & BROOM HOLDER AT TOP OF MOP SINK; REFER TO ACCESSORIES SCHEDULE ON SHEET A-801
10. PLASTIC LAMINATE TOILET PARTITION, TYPICAL

RESTROOM INTERIOR ELEVATIONS

REFER TO SHEET A801 FOR RESTROOM INTERIOR ELEVATIONS, FINISHES & ADDITIONAL DETAILS

TOILET ACCESSORIES SCHEDULE

REFER TO SHEET A-801 FOR TOILET ACCESSORIES SCHEDULE & MOUNTING HEIGHTS

PLUMBING FIXTURES SCHEDULE

REFER TO PLUMBING DWGS

PARTITION TYPES

REFER TO PARTITION TYPES ON SHEET A-402

WALL LEGEND

- EXISTING WALL ASSEMBLY TO REMAIN
- METAL STUD FRAMED WALL, PARTIAL HEIGHT. REFER TO PARTITION TYPES
- 1-HR RATED METAL STUD FRAMED WALL (UL DESIGN NO. U465). REFER TO LIFE SAFETY PLANS FOR UL ASSEMBLY DETAILS. ALSO REFER TO PARTITION TYPES

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	WALL BASE	WALL FINISH				CEILING FINISH	REMARKS
				NORTH	EAST	SOUTH	WEST		
100A	CORRIDOR	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.
100B	CORRIDOR	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.
101	VESTIBULE	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	
102	MEN'S RESTROOM	EXISTING	WB-1	PT-X / FRP	PT-X / FRP	PT-X / FRP	PT-X / FRP	ACT-1	ALL WET WALLS TO RECEIVE MR GYPSUM BOARD. WALLS TO RECEIVE FRP UP TO 4'-0"
103	CUSTODIAL	EXISTING	WB-1	PT-X / FRP	PT-X / FRP	PT-X	PT-X / FRP	ACT-1	ALL WET WALLS TO RECEIVE MR GYPSUM BOARD. WALLS TO RECEIVE FRP UP TO 4'-0"
105	VESTIBULE	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	
106	WOMEN'S RESTROOM	EXISTING	WB-1	PT-X / FRP	PT-X	PT-X / FRP	PT-X / FRP	ACT-1	ALL WET WALLS TO RECEIVE MR GYPSUM BOARD. WALLS TO RECEIVE FRP UP TO 4'-0"
107	BREAK ROOM	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	ALL WET WALLS TO RECEIVE MR GYPSUM BOARD.
108	CLASSROOM	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.
109	CLASSROOM	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.
110	OFFICE	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.
111	OFFICE	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	ACT-1	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.
112	ELEC/MDF ROOM	EXISTING	WB-1	PLYWOOD	PT-X	PT-X	PLYWOOD	-	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.
113	HVAC	EXISTING	WB-1	PT-X	PT-X	PT-X	PT-X	-	
	STORAGE	EXISTING	WB-1	-	-	-	PT-X	-	REFER TO UL DETAILS FOR RATED WALLS, PROVIDE TYPE X ON ALL RATED WALLS, TYP.

FINISHES

PT-X	FIELD COLOR	SHERWIN WILLIAMS (TBD)
PT-X	ACCENT COLOR	SHERWIN WILLIAMS (TBD)
PT-X	DOOR & FRAMES	SHERWIN WILLIAMS (TBD)
GYPSUM BOARD	WALL TEXTURE : ORANGE PEEL	
WB-1	CONT. 4" WALL BASE	

PARTITION TYPES

- P1** - 4" BATT INSULATION @ INTERIOR SIDE OF EXTERIOR WALL FROM FIN. FLR. TO 10'-0" AFF.
- 3 5/8" 20GA MTL. STUD FRAMING FROM FIN. FLR. TO 10'-0" AFF.
- P1A** - 4" BATT INSULATION @ INTERIOR SIDE OF EXTERIOR WALL FROM FIN. FLR. TO 10'-0" AFF.
- 3 5/8" 20GA MTL. STUD FRAMING FROM FIN. FLR. TO 10'-0" AFF.
- 5/8" GNB (@ EXPOSED SIDE) FROM FIN. FLR. TO 10'-0" (PROVIDE MOISTURE RESISTANT GNB AS REQUIRED AT WET AREAS, TYP.)
- ALIGN WALL STRUCTURE WITH FARTHEST POINT OF EXISTING COLUMNS
- P2** - 3 5/8" 20GA METAL STUD FRAMING @ 16" O.C. FROM FIN. FLR. TO 10'-0"
- 5/8" GNB BOTH SIDE (PROVIDE MOISTURE RESISTANT GNB AS REQUIRED AT WET AREAS, TYP.)
- FROM FIN. FLR. TO 6" ABOVE FIN. CEILING WHERE WALL IS ADJACENT TO A.C.T. CEILING
- ACOUSTIC BATT INSULATION
- P3** - 3 5/8" 20GA METAL STUD FRAMING @ 16" O.C. FROM FIN. FLR. TO 10'-0"
- 5/8" GNB, BOTH SIDES (PROVIDE MOISTURE RESISTANT GNB AS REQUIRED AT WET AREAS, TYP.)
- PROVIDE GNB AS APPLICABLE BELOW:
- FROM FIN. FLR. TO 6" ABOVE FIN. CEILING WHERE WALL IS ADJACENT TO A.C.T. CEILING
- P3A** - 3 5/8" 20GA METAL STUD FRAMING @ 16" O.C. FROM FIN. FLR. TO 10'-0"
- 5/8" GNB (@ EXPOSED SIDE)(PROVIDE MOISTURE RESISTANT GNB AS REQUIRED AT WET AREAS, TYP.)
- FROM FIN. FLR. TO 6" ABOVE FIN. CEILING WHERE WALL IS ADJACENT TO A.C.T. CEILING
- IX** - 6" 18GA METAL STUD FRAMING @ 16" O.C. FROM FIN. FLR. TO B.O. STRUCTURE ABOVE
- 5/8" TYPE X GNB BOTH SIDES FROM FIN. FLR. TO B.O. STRUCTURE ABOVE
- ACOUSTIC BATT INSULATION
- 1-HR RATED WALL ASSEMBLY PER UL DESIGN NO. U465. REFER TO UL ASSEMBLY DETAILS ON SHEET A-403

GENERAL NOTES:

1. ALL WALLS TO BE 10'-0" TALL, U.O.N.
2. ALL WET WALLS AT RESTROOMS AND CUSTODIAL ROOMS TO RECEIVE FRP UP TO 4'-0"

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JOB NO : 21021
DRAWN BY : XAMR
ISSUE DATE : 05.26.21

SHEET NAME:
ENLARGED FLOOR PLANS

SHEET NUMBER
A-401

DOOR SCHEDULE

MARK	TYPE	FRAME	HDWR	MATERIAL	SIZE			DETAIL			RATING	NOTES
					WIDTH	HEIGHT	THICK	HEAD	JAMB	SILL/THRESH.		
(100)	1	AL-1	A	ALUM/GLASS	6'-0"	7'-0"	BY MFR	DH-1	DJ-1	DT-1	-	1, 2, 3, 4, 6, 8 & 9
(100A)	1	AL-1	A	ALUM/GLASS	6'-0"	7'-0"	BY MFR	DH-1	DJ-1	DT-1	-	1, 2, 3, 4, 6, 8 & 9
(102)	2	HM-2	D	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(103)	2	HM-2	B	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(106)	2	HM-2	D	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(107)	2	HM-2	D	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(108)	2A	HM-2	D	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(109)	2A	HM-2	D	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(110)	2	HM-2	C	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(111)	2	HM-2	C	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(112)	2	HM-2	B	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	5
(113)	2	HM-1	E	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	-	
(201)	2	HM-2	B	WD	(2)3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	2 & 5
(201A)	2	HM-2	B	WD	3'-0"	7'-0"	1 3/4"	DH-2	DJ-2	-	45 MIN	2 & 5

DOOR HARDWARE SCHEDULE

HARDWARE SET 'A' (DOUBLE STOREFRONT DOORS)
HARDWARE BY DOOR MANUFACTURER

NOTES:

- INSTALL PER FLORIDA PRODUCT APPROVAL
- MOUNT PUSH/PULL BARS NO HIGHER THAN 48" A.F.F. TO COMPLY WITH A.D.A. REQUIREMENTS

HARDWARE GROUP 'B' - STOREROOM (INTERIOR - SINGLE DOOR)

- (3) HINGES STANLEY FBB179 4 1/2 X 4 1/2
- (1) STOREROOM LOCK SCHLAGE AL80PD
- (1) DOOR STOP IVES FS13
- (3) SILENCERS
- (1) PERIMETER SEALS
- (1) THRESHOLD
- (1) CLOSER

HARDWARE SET 'C' - OFFICE (INTERIOR)

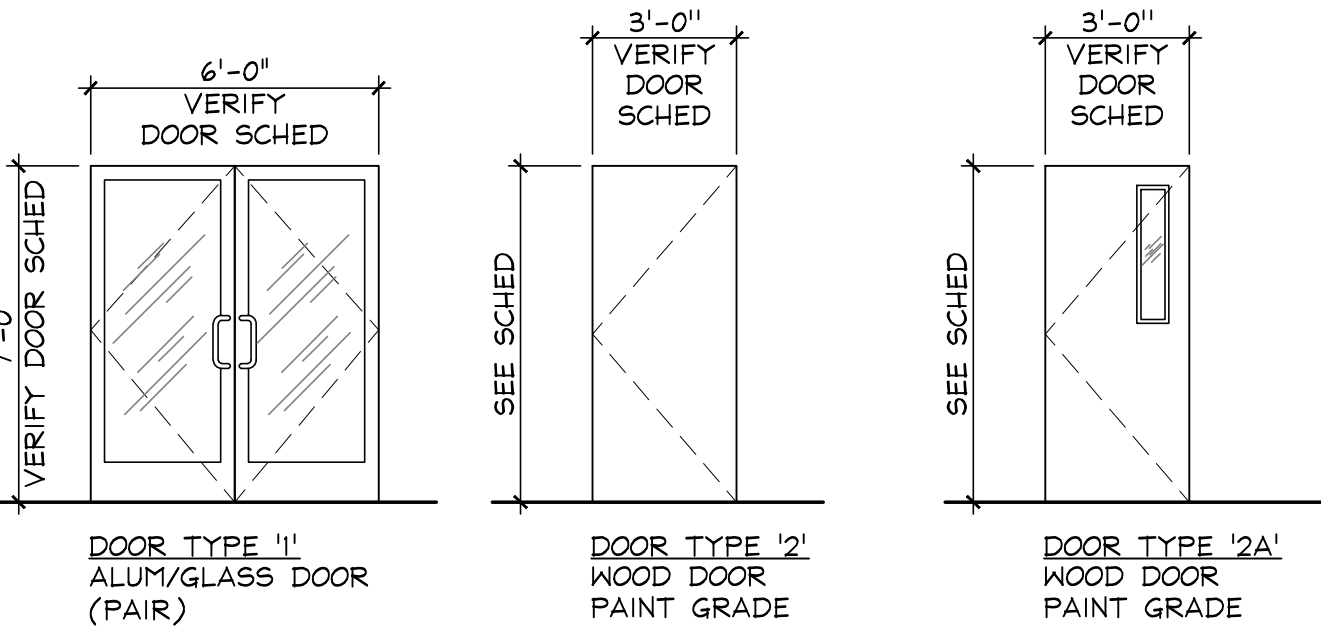
- (3) HINGES STANLEY FBB179 4 1/2 X 4 1/2
- (1) OFFICE LOCKSET SCHLAGE AL50PD
- (1) FLOOR STOP IVES FS13
- (3) SILENCERS
- (1) PERIMETER SEALS
- (1) THRESHOLD
- (1) CLOSER

HARDWARE SET 'D' - PASSAGE (SINGLE DOOR - INTERIOR)

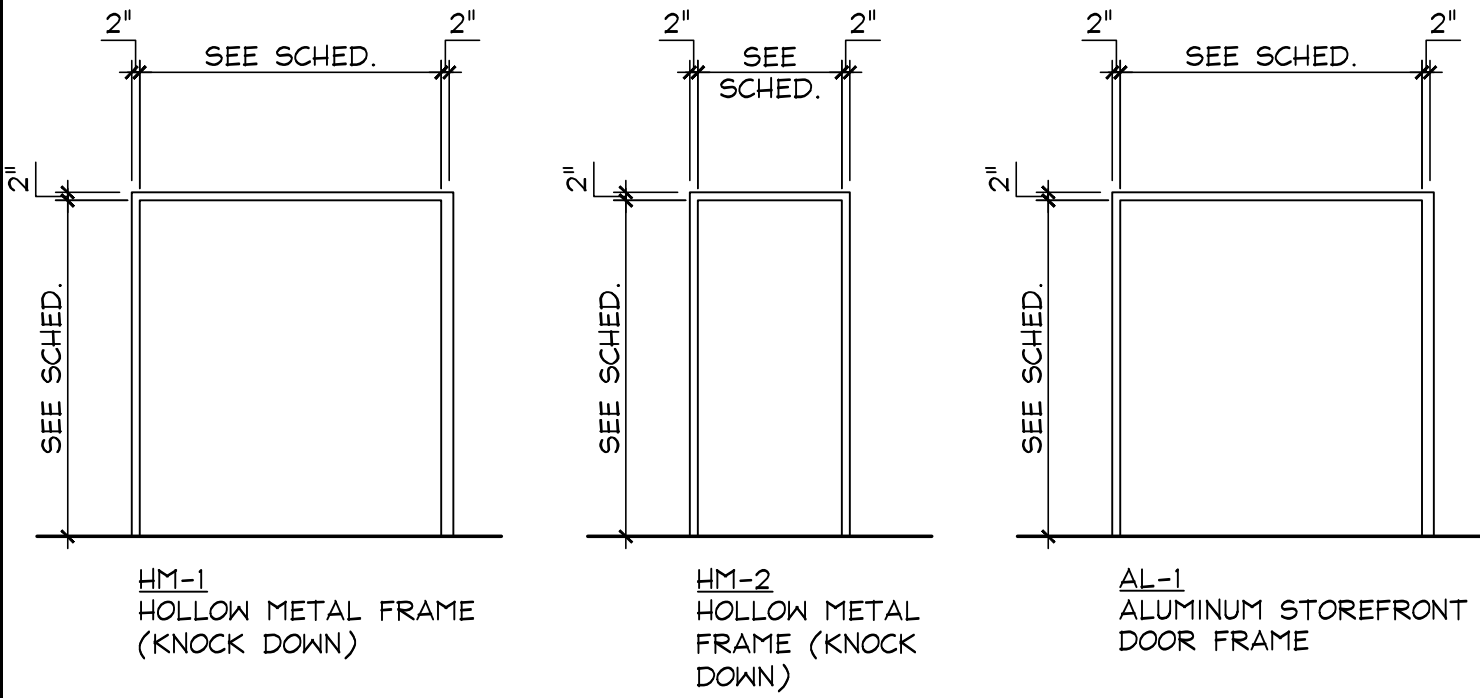
- (3) HINGES STANLEY FBB179 4 1/2 X 4 1/2
- (1) PASSAGE LOCKSET SCHLAGE AL10S
- (1) FLOOR STOP IVES FS13
- (3) SILENCERS
- (1) PERIMETER SEALS
- (1) THRESHOLD
- (1) CLOSER

HARDWARE GROUP 'E' - STOREROOM (INTERIOR - SINGLE DOOR)

- (3) HINGES STANLEY FBB179 4 1/2 X 4 1/2
- (1) STOREROOM LOCK SCHLAGE AL80PD
- (1) DOOR STOP IVES FS13
- (3) SILENCERS



DOOR TYPES



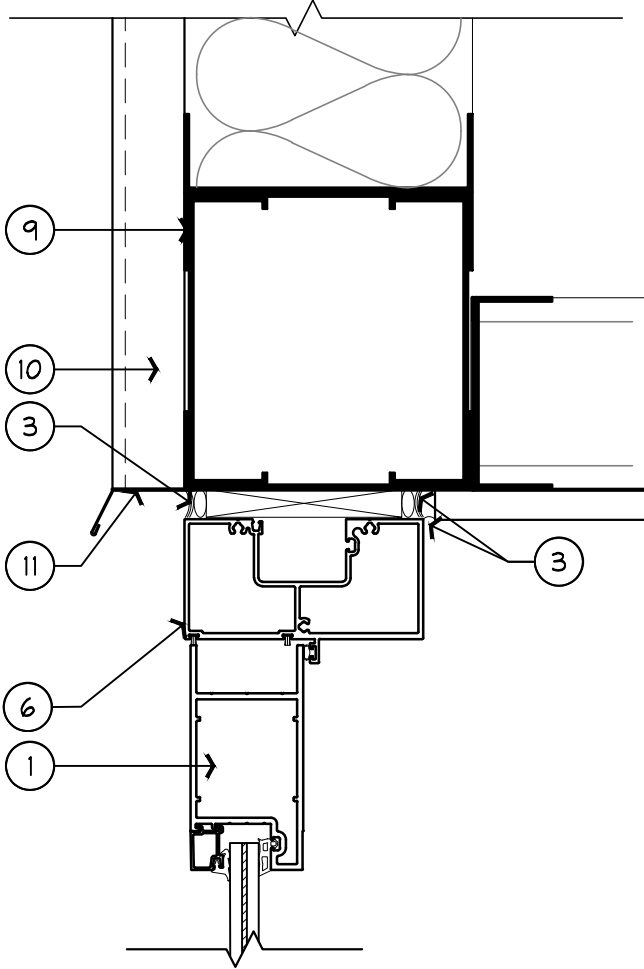
DOOR FRAME TYPES

DOOR NOTES

1. INSTALL PER FLORIDA PRODUCT APPROVAL
2. PROVIDE INSULATED DOOR
3. ALUMINUM STOREFRONT DOOR. REFER TO STOREFRONT SYSTEM MFR. FOR SPECIFICATIONS & MINIMUM REQUIREMENTS
4. ALUMINUM STOREFRONT DOOR COMPONENTS SHALL BE CLEAR ANODIZED
5. PROVIDE FIRE RATED DOOR AS INDICATED ON DOOR SCHEDULE
6. PROVIDE PANIC HARDWARE
7. GENERAL CONTRACTOR SHALL COORDINATE THROAT DEPTH WITH DOOR SUPPLIER PRIOR TO APPROVAL OF SHOP DRAWINGS AND ORDERING OF FRAMES
8. PROVIDE ACCESS CONTROL. VERIFY W/ OWNER
9. CONTRACTOR SHALL VERIFY LOCK FUNCTION AND SECURITY REQUIREMENTS WITH OWNER

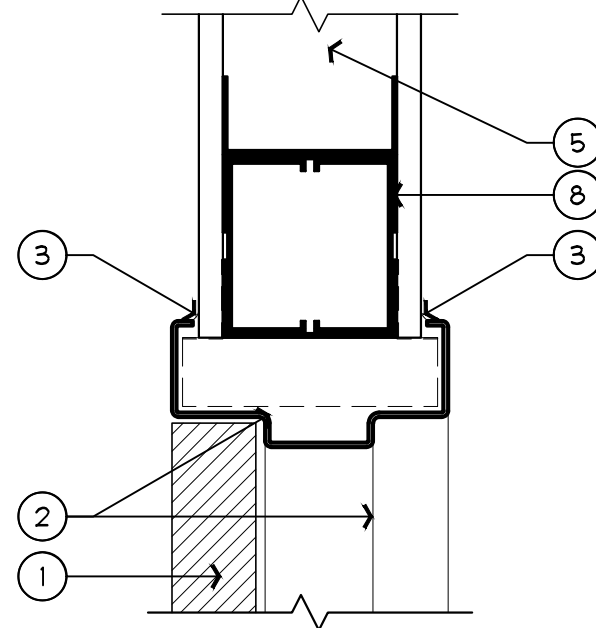
DETAIL KEYNOTES

1. DOOR AS SCHEDULED.
2. HOLLOW METAL DOOR FRAME W/ (3) JAMB ANCHORS PER SIDE.
3. SEALANT BEAD, CONT., TYP. AT ALL DOOR CONNECTIONS. PROVIDE CLOSED CELL BACKER ROD WHERE GAP IS GREATER THAN 3/16"
4. ALUM. THRESHOLD (ADA COMPLIANT) SET ON A BED OF SEALANT. REFER TO DOOR HARDWARE SCHEDULE
5. WALL PARTITION. REFER TO PARTITION TYPES FOR ADDITIONAL INFORMATION
6. ALUM. STOREFRONT SYSTEM, INSTALL PER FL. PRODUCT APPROVAL.
7. EXISTING FLOOR SLAB
8. METAL STUD FRAMING. REFER TO PARTITION TYPES
9. NEW EXTERIOR WALL FRAMING & MODIFICATIONS AS REQUIRED TO BE PROVIDED BY PEMB VENDOR
10. EXISTING METAL PANEL
11. CONT. FLASHING PER PEMB VENDOR, TYP.
12. NEW CONCRETE PAD



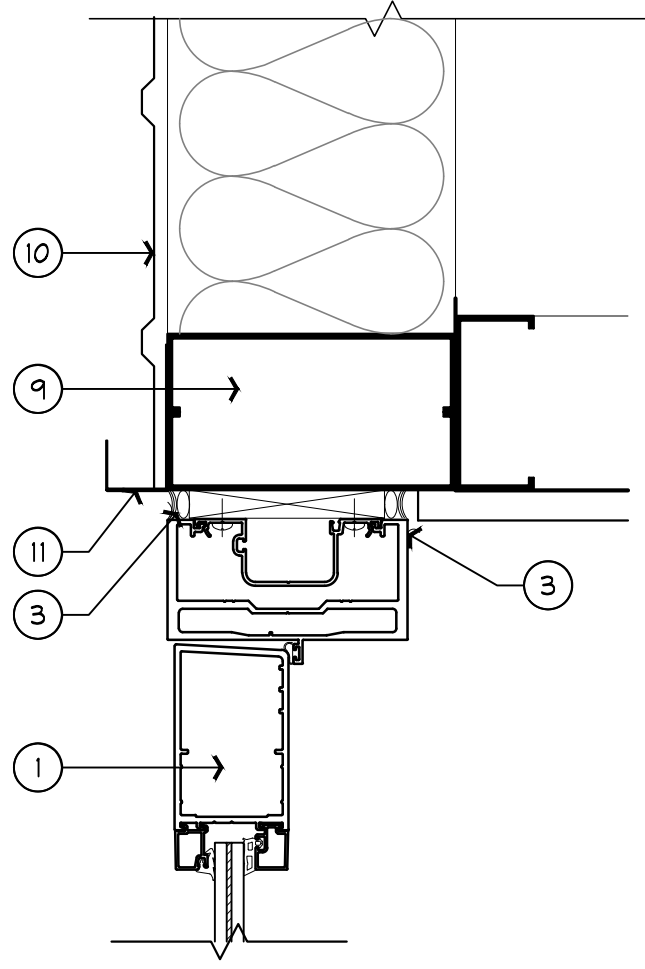
DH-1
(DOOR HEAD DETAIL)

0 0.25 0.5 0.75 1 FEET
SCALE: 3" = 1'-0"



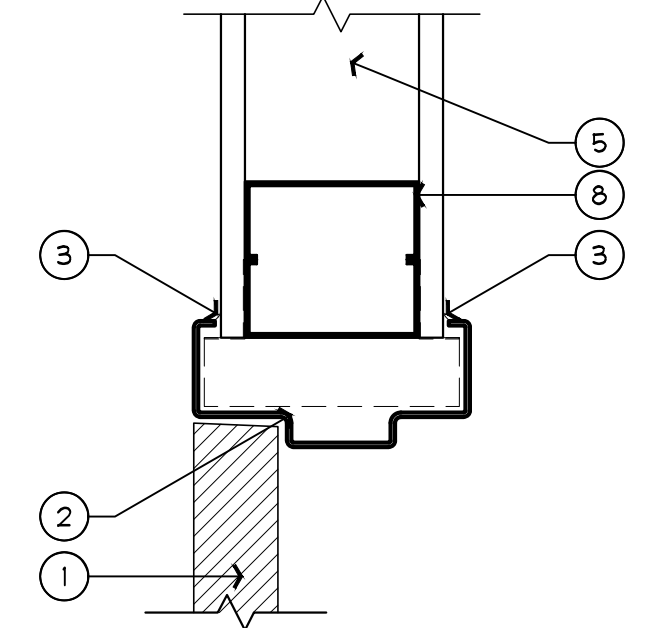
DH-2
(DOOR HEAD DETAIL)

0 0.25 0.5 0.75 1 FEET
SCALE: 3" = 1'-0"



DJ-1
(DOOR JAMB DETAIL)

0 0.25 0.5 0.75 1 FEET
SCALE: 3" = 1'-0"



DJ-2
(DOOR JAMB DETAIL)

0 0.25 0.5 0.75 1 FEET
SCALE: 3" = 1'-0"

PEMB MODIFICATION NOTES:

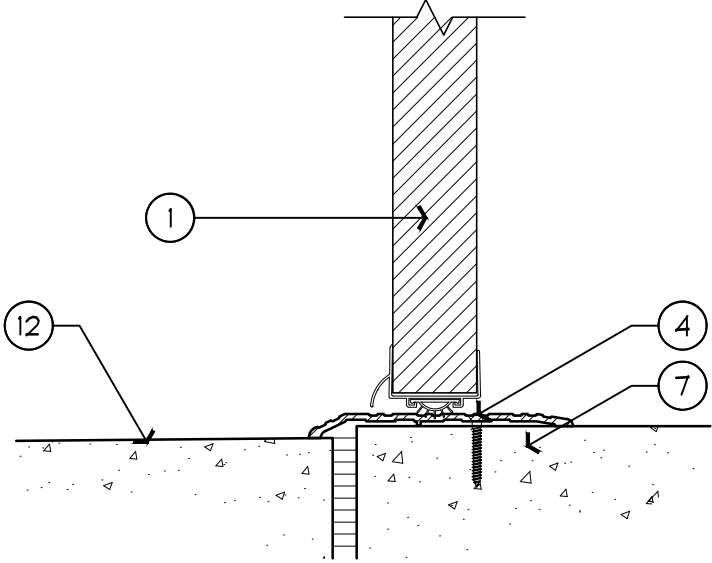
EXTERIOR FRAMING SHOWN FOR REFERENCE ONLY. REFER TO PEMB VENDOR FOR ADDITIONAL INFORMATION / REQUIREMENTS.

FRAMING @ NEW EXTERIOR DOORS AND RELOCATED MECHANICAL LOUVERS & EXHAUST FANS SHALL BE PROVIDED BY THE PEMB VENDOR. GC TO COORDINATE

EXTERIOR WALL INFILL, FRAMING, METAL PANEL & INSULATION (WHERE EXISTING DOOR OR EQUIPMENT HAS BEEN REMOVED) SHALL BE PROVIDED BY THE PEMB VENDOR.

EXTERIOR DOOR/WINDOW NOTE:

EXTERIOR DOORS, WINDOWS, STOREFRONT, ETC., ALL SHALL BE INSTALLED PER FLORIDA PRODUCT APPROVAL AS TESTED. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS/ REQUIREMENTS.
ANY AND ALL CONTRADICTIONS IN THESE PLANS SHALL BE OVERRIDDEN BY THE APPROVED FLORIDA PRODUCT APPROVAL.



DT-1
(DOOR JAMB DETAIL)

0 0.25 0.5 0.75 1 FEET
SCALE: 3" = 1'-0"

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HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
Practical Training Site
Office & Classroom Renovation
in Existing Pavilion

Joseph V. Belluccia, AIA

FL REG AR92396

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

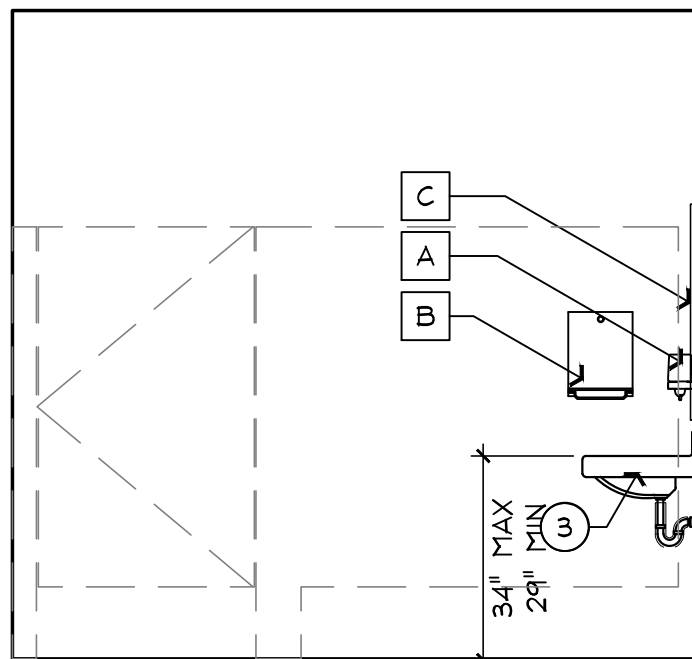
JOB NO : 21021

DRAWN BY : XAMR

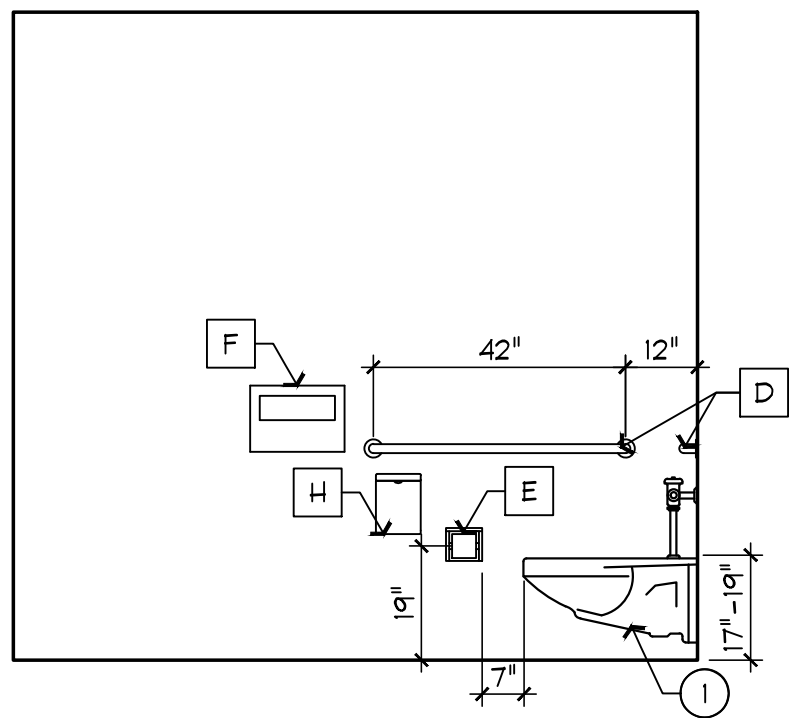
ISSUE DATE : 05.26.21

SHEET NAME:
DOOR SCHEDULE,
OPENING DETAILS
AND UL DETAILS

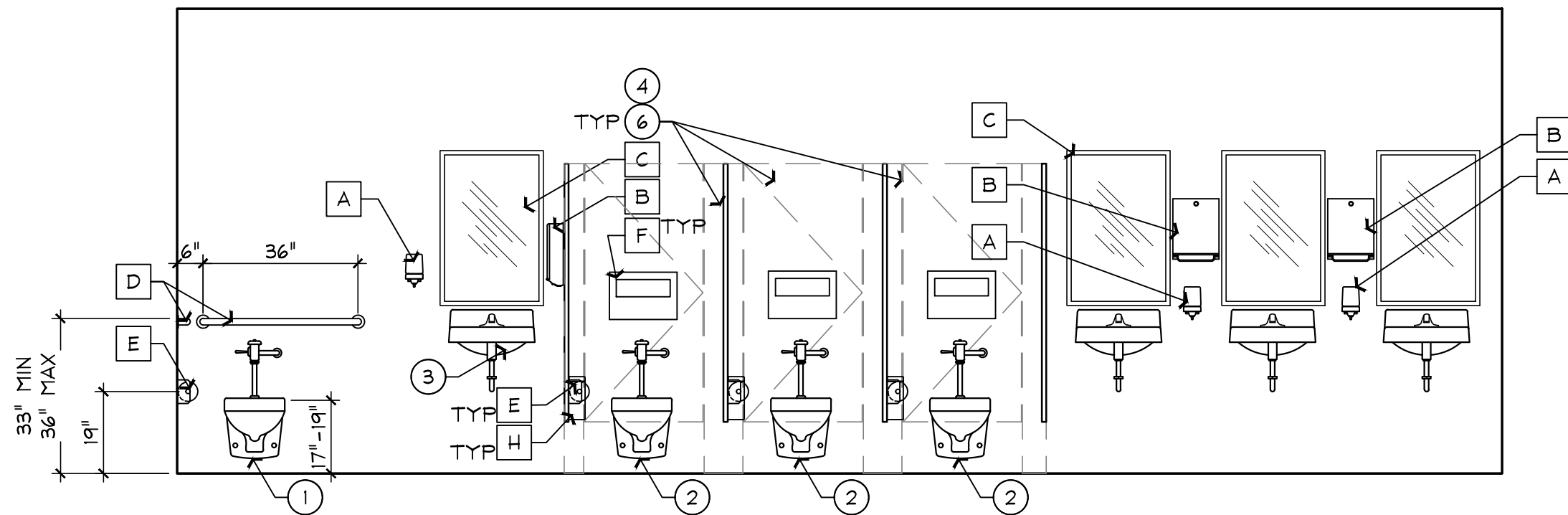
SHEET NUMBER
A-402



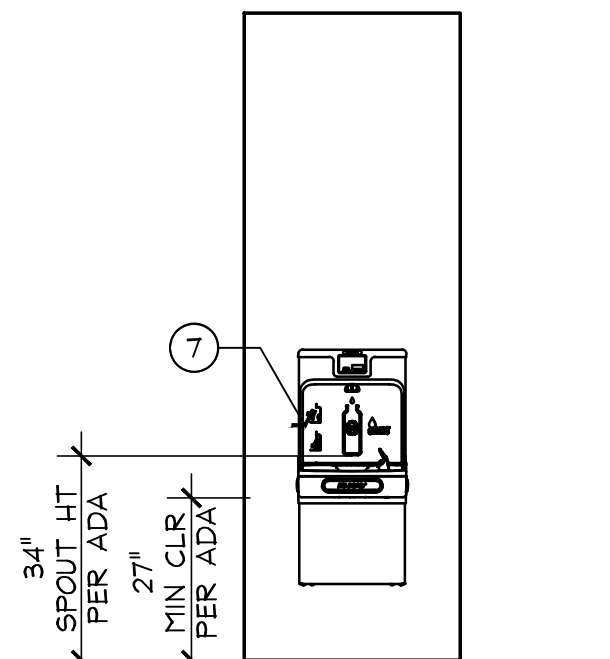
ELEVATION 1A



ELEVATION 1B



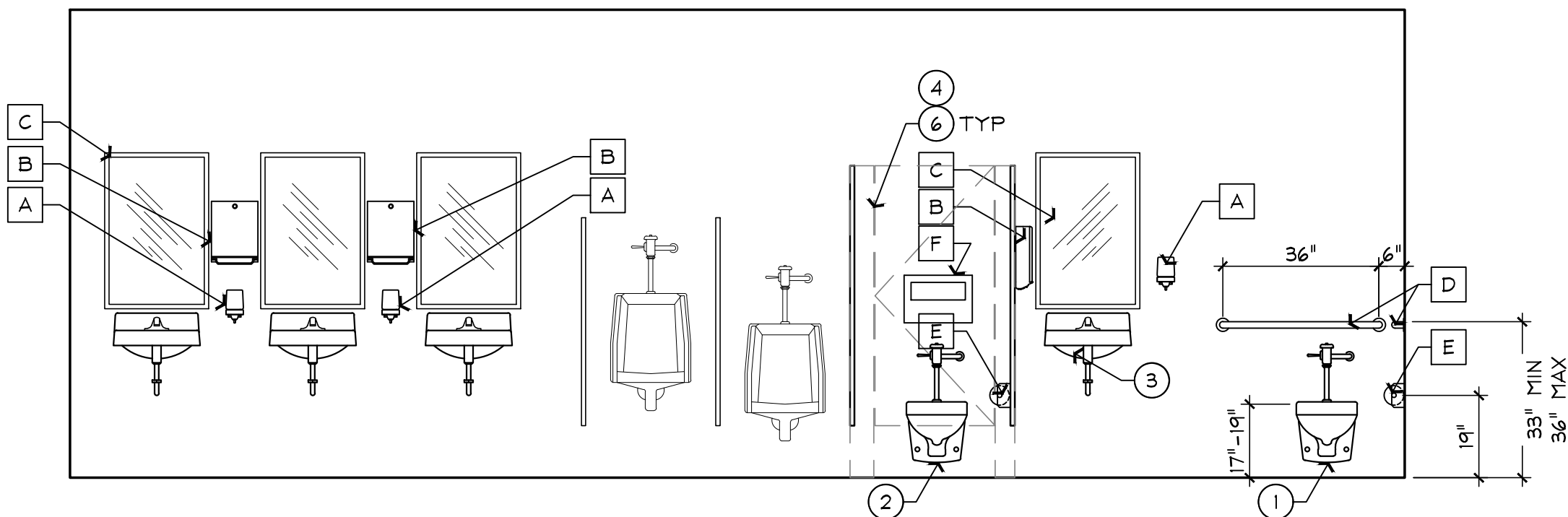
ELEVATION 1C



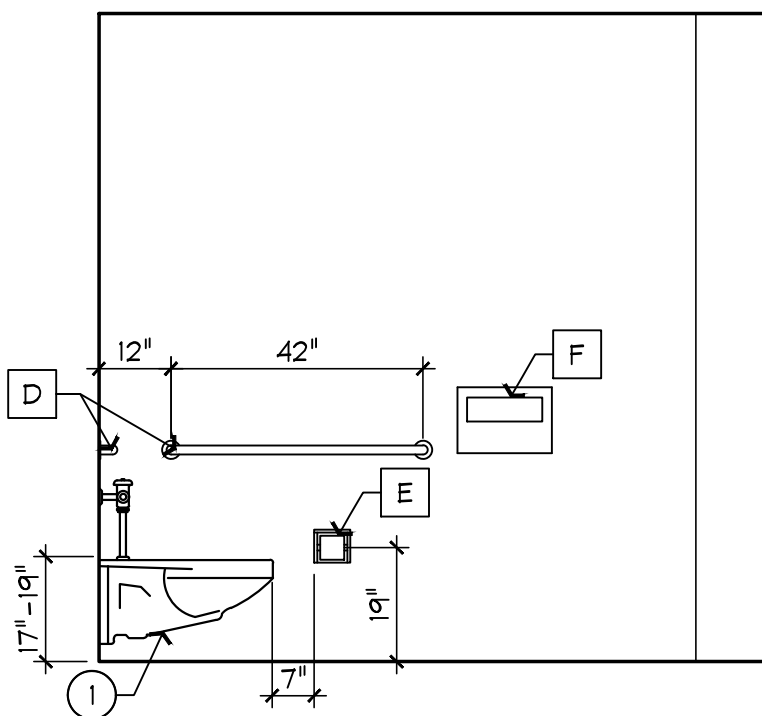
ELEVATION 4A

1 INTERIOR ELEVATIONS

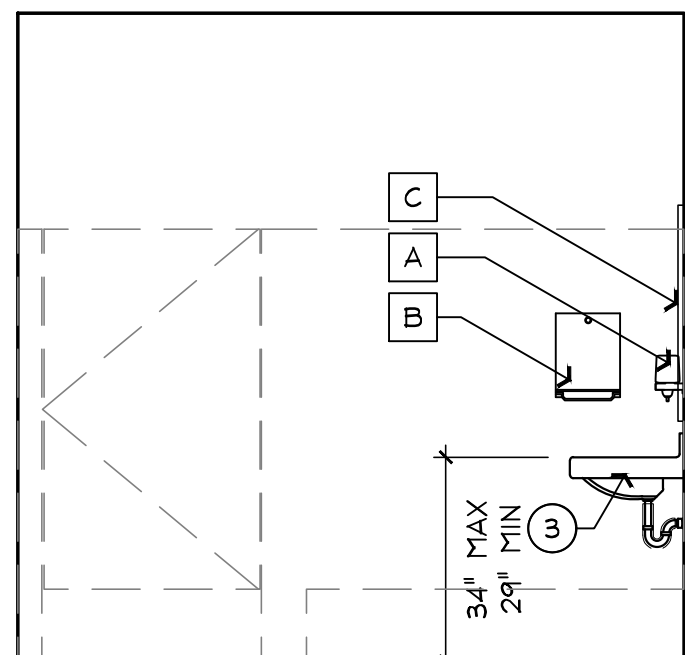
SCALE: 3/8" = 1'-0"



ELEVATION 2A



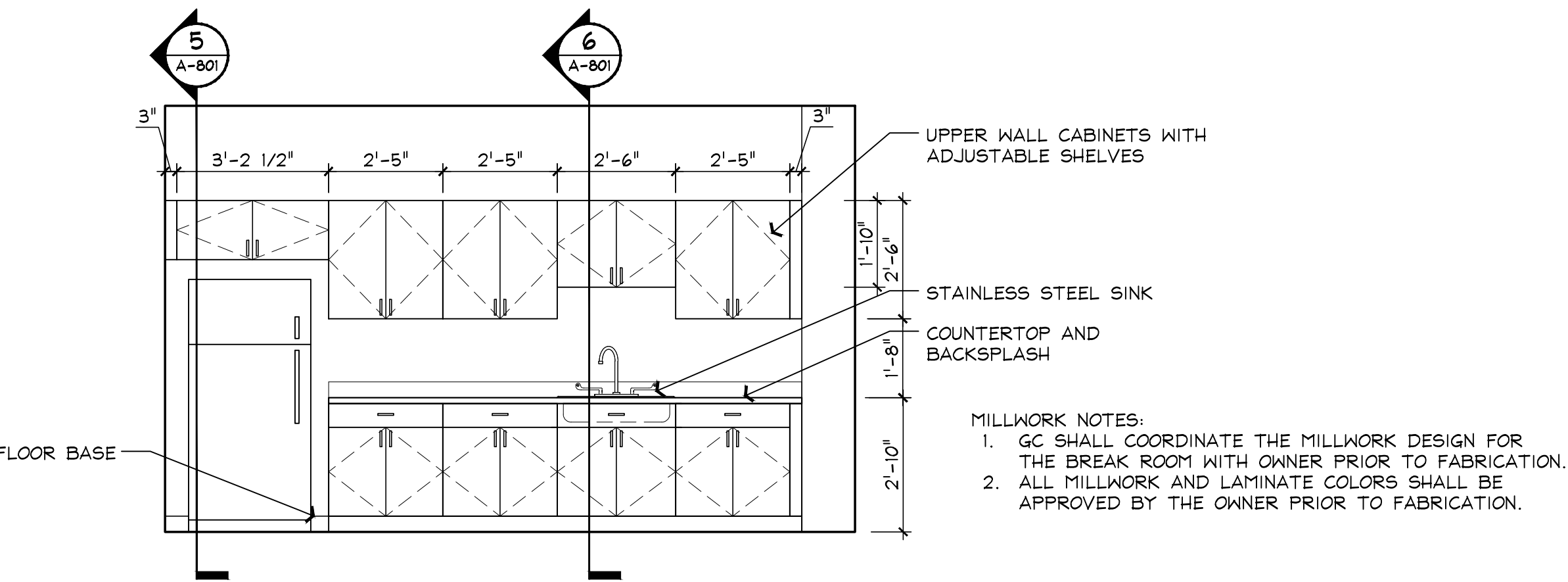
ELEVATION 2B



ELEVATION 2C

2 INTERIOR ELEVATIONS

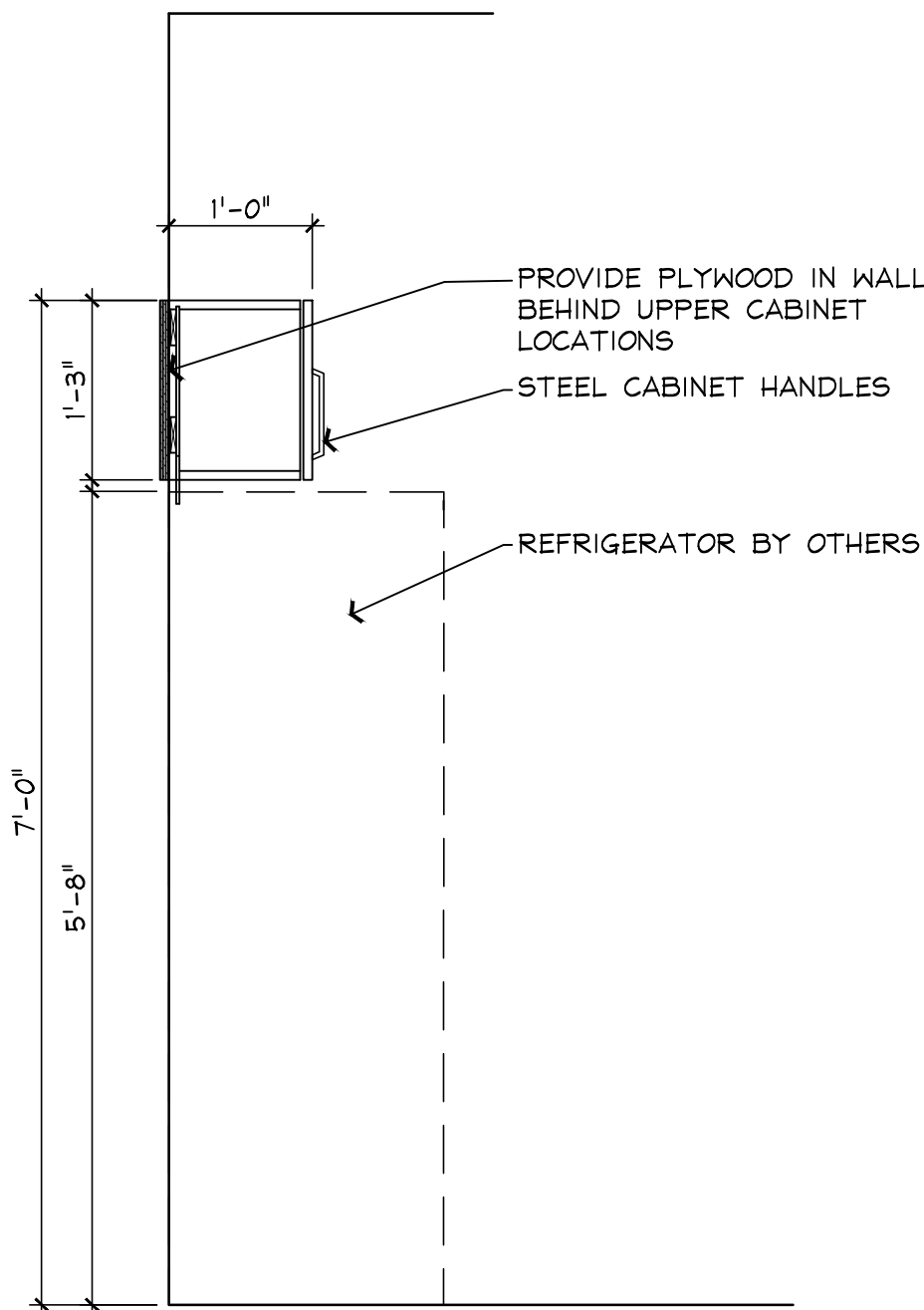
SCALE: 3/8" = 1'-0"



ELEVATION 3A

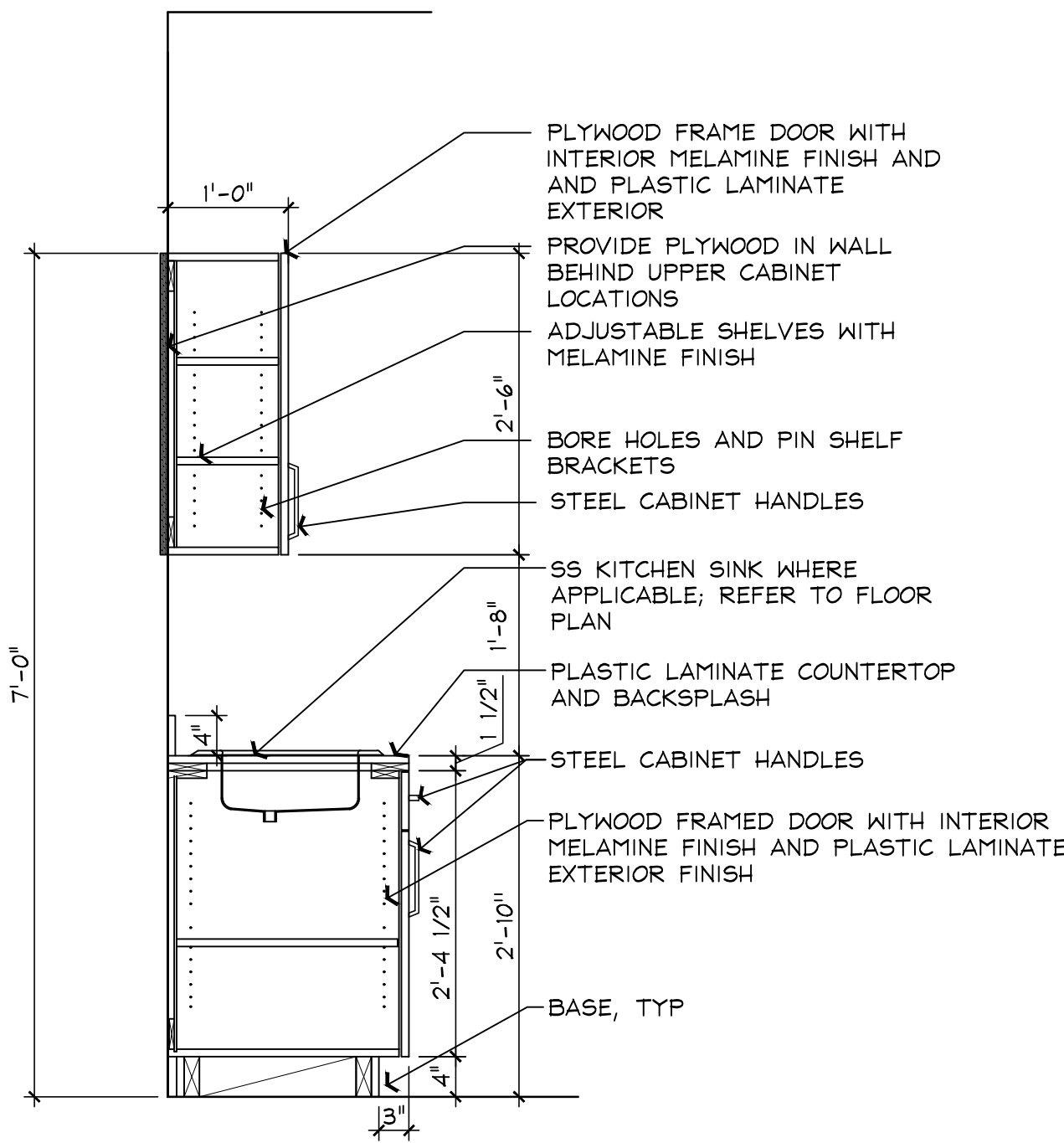
3 INTERIOR ELEVATIONS

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



5 MILLWORK SECTION @ REF.

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



6 MILLWORK SECTION

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

ELEVATION KEYNOTES

1. WATER CLOSET, A.D.A. COMPLIANT. REFER TO PLUMBING DWGS.
2. WATER CLOSET. REFER TO PLUMBING DWGS.
3. WALL MOUNTED LAVATORY, A.D.A. COMPLIANT. REFER TO PLUMBING DWGS.
4. PROVIDE 1 COAT HOOK PER PARTITION DOOR, TYP.
5. URINAL, REFER TO PLUMBING DWGS.
6. TOILET PARTITION & DOOR (BY PARTITION SYSTEM VENDOR)
7. ADA ELECTRIC WATER COOLER W/ BOTTLE FILLER; REFER TO PLUMBING DWGS

ACCESSORIES SCHEDULE

KEY #	DESCRIPTION	MFR. / MODEL
A	SURFACE MOUNTED LIQUID SOAP DISPENSER	BOBRICK B-155
B	SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK B-262
C	CHANNEL FRAMED MIRROR (HORIZONTAL)	BOBRICK B-165 2436
D	HANDICAP GRAB BARS (HORIZONTAL)	BOBRICK B-6806 36" & 42"
E	SURFACE MOUNTED TOILET PAPER DISPENSER	BOBRICK B-2888
F	SURFACE MOUNTED SEAT COVER DISPENSER	BOBRICK B-221
G	MOP AND BROOM HOLDER	BOBRICK B-223-24
H	SANITARY NAPKIN DISPOSAL	BOBRICK B-270
J	DOUBLE COAT HOOK	BOBRICK B-549

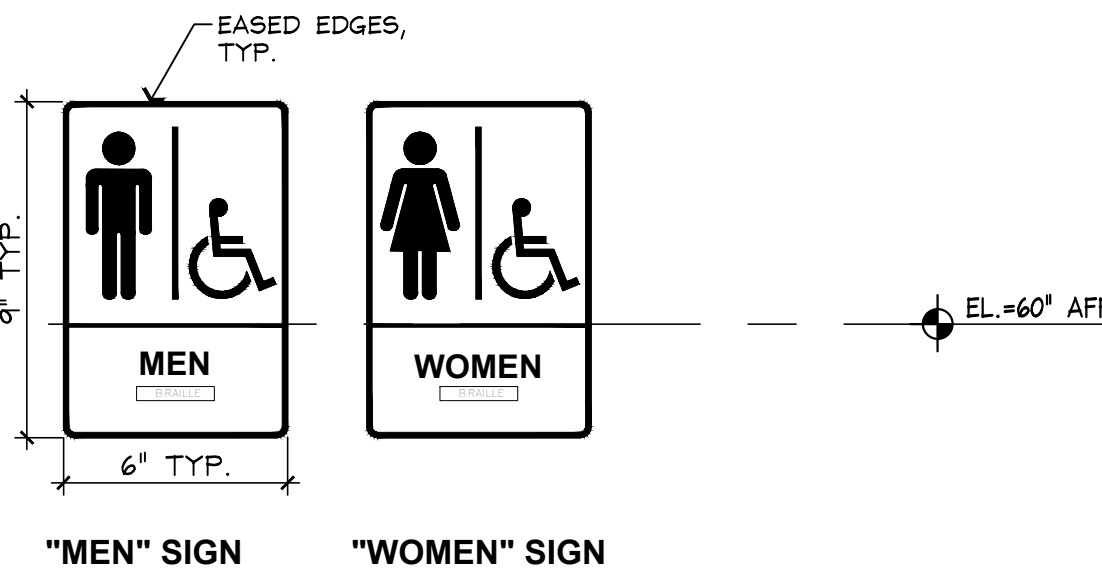
GENERAL RESTROOM NOTES

1. ALL ACCESSORIES TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED.
2. GENERAL CONTRACTOR TO PROVIDE WALL BACKING AS REQUIRED FOR EQUIPMENT MOUNTING SUPPORT.
3. ALL RESTROOM ACCESSORIES AND FIXTURES TO COMPLY WITH HANDICAP ACCESSIBILITY REQUIREMENTS. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND DATA RELATED TO ACCESSIBILITY FEATURES, INSTALLATION HEIGHTS, ETC.
4. PROVIDE USER PROTECTION (INSULATION WRAP OR OTHER MEANS) AGAINST HOT, SHARP, OR ABRASIVE SURFACES UNDER LAVATORY.

ADA SIGNAGE NOTES

- A. 6" WIDE x 9" HIGH WALL SIGNS TO BE TWO-TONED, WHITE BACKGROUND WITH DARK SYMBOLS (BLACK) AND 1/32" RAISED SANS-SERIF UPPERCASE, 5/8" MIN. HIGH LETTERING.
- B. SYMBOLS INCLUDE GRAPHIC "MEN" AND "WOMEN" & "INTERNATIONAL ACCESS". LETTERING ALSO PROVIDED IN GRADE 2 BRAILLE.
- C. WALL MOUNT AT LATCH SIDE OF DOOR, U.N.O.
- D. MOUNTING HEIGHT TO BE 60" FROM FINISH FLOOR TO CENTERLINE OF SIGN.
- E. CONTRACTOR MAY INSTALL SIMILAR SIGNS AS LONG AS THEY ARE APPROVED BY THE OWNER AND THE BUILDING OFFICIAL PRIOR TO INSTALLATION.

WALL SIGNS REFERENCE



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REVISIONS	
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GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
- CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
- ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:
 - THE FLORIDA BUILDING CODE, 7TH EDITION (2020).
 - ACI STANDARD 318-14 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16).
 - AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 360-16.
 - ASCE 7-16 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
- NOTIFY ENGINEER OR ARCHITECT OF ANY DISCREPANCIES ON DRAWINGS.
- CONTRACTOR TO NOTIFY ENGINEER OF ANY SUBSTITUTIONS OF ANY STRUCTURAL ITEMS OR MATERIALS NOTED ON THESE CONSTRUCTION DOCUMENTS. ENGINEER TO PROVIDE WRITTEN APPROVAL FOR SUBSTITUTED ITEMS PRIOR TO BEGINNING ANY WORK.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DEVIATIONS FROM THESE CONSTRUCTION DOCUMENTS AND SHALL ONLY PROCEED ONCE WRITTEN APPROVAL IS PROVIDED BY THE ENGINEER.

DESIGN CRITERIA:

- LIVE LOADS:

FLOOR =	100 PSF
ROOF =	20 PSF
	10 PSF
- DEAD LOADS:

FLOOR =	20 PSF
ROOF =	20 PSF
FOLDING PARTITION=	15 PSF
- WIND VEL. (3 SEC GUST) = 150 MPH, ULT. 116 MPH ASD, EXPOSURE C RISK CATEGORY 2
- ALLOWABLE SOIL PRESSURE = 1500 PSF (ASSUMED - VERIFY)

SITE WORK AND PREPARATION:

- A GEOTECHNICAL ENGINEER OR QUALIFIED SOIL TESTING LABORATORY SHALL BE RETAINED BY THE OWNER OR CONTRACTOR TO PERFORM NECESSARY SUBGRADE TESTING.
- A GEOTECHNICAL REPORT SHALL BE PROVIDED TO THE ENGINEER INCLUDING, BUT NOT LIMITED TO, SITE INFORMATION, SOIL BORING RESULTS, ALLOWABLE SOIL BEARING PRESSURE, GEOTECHNICAL FOUNDATION RECOMMENDATIONS FOR SHALLOW AND/OR DEEP FOUNDATIONS, SITE AND SOIL PREPARATION RECOMMENDATIONS, AND ALL SUBSURFACE CONDITIONS.
- ENGINEER ASSUMES NO RESPONSIBILITY FOR SETTLEMENT OR OTHER FOUNDATION ISSUES DUE TO FAILURE OF OWNER OR CONTRACTOR TO PERFORM THE NECESSARY GEOTECHNICAL INVESTIGATION.

CONCRETE AND REINFORCING:

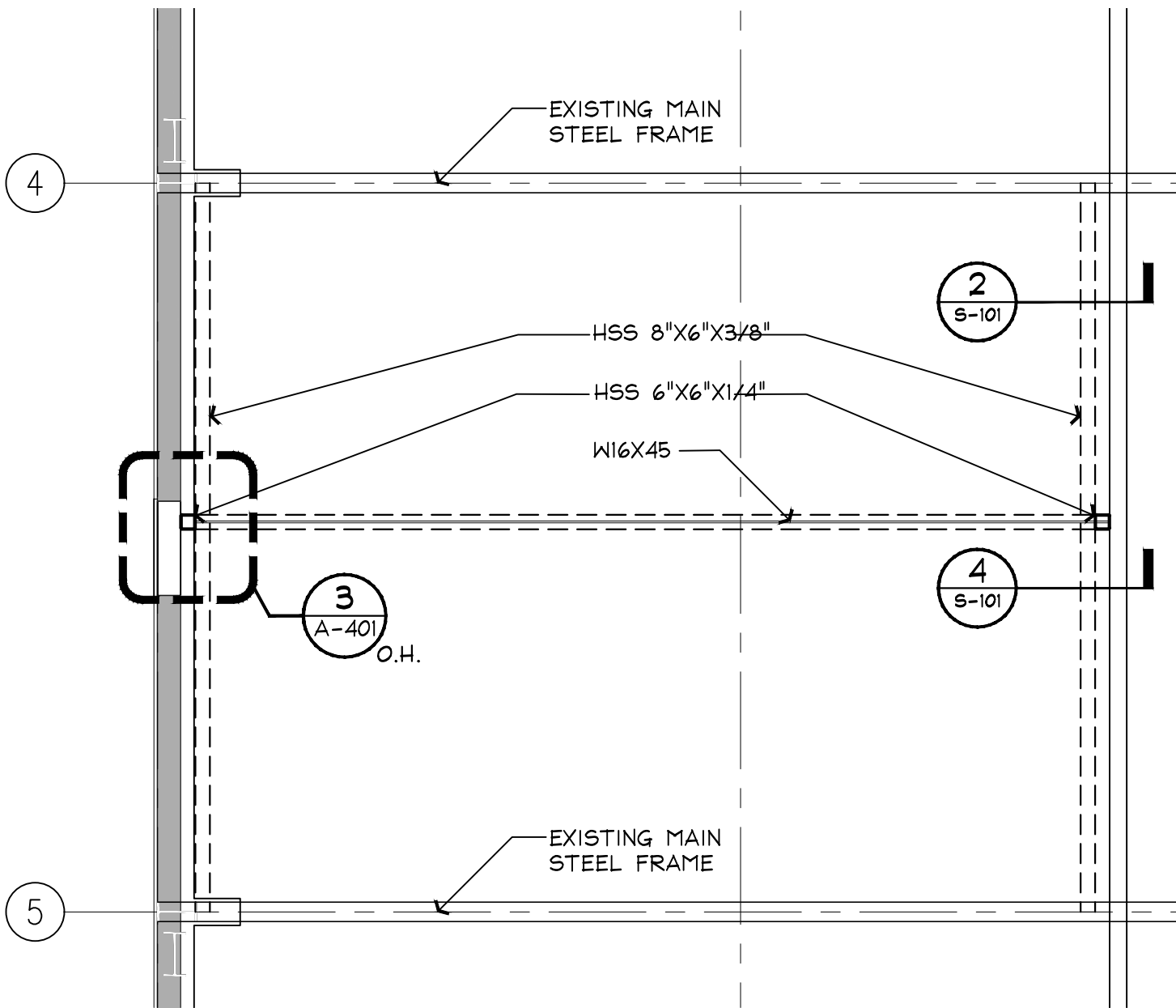
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH, $f_c = 4000$ PSI (NORMAL WEIGHT)
 - CONTRACTOR TO ALLOW AMPLE CURING TIME TO ALLOW CONCRETE TO REACH MINIMUM COMPRESSIVE STRENGTH AS NOTED PRIOR TO CONTINUING CONSTRUCTION.
- ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WIRED IN PLACE.
- ALL WELDED WIRE FABRIC (W.W.F.) IN FLAT SHEETS ONLY AND SHALL CONFORM TO ASTM A-185.
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315.
- CONCRETE COVERAGE:
 - CONCRETE CAST AGAINST EARTH = 3"
 - CONCRETE EXPOSED TO WEATHER = #6 OR GREATER: 2", #5 OR LESS: 1 1/2"
 - CONCRETE NOT EXPOSED TO WEATHER OR CONTACT WITH GROUND:
 - SLABS, WALLS, AND JOISTS = #11 OR SMALLER: 3/4", #14-#18: 1 1/2"
 - BEAMS AND COLUMNS = 1 1/2"
- SLAB ON GRADES (INCLUDING EXTERIOR SLABS) TO BE REINFORCED WITH 6X6 W1.4 x W1.4 W.W.F. @ MID DEPTH OF SLAB (UNLESS OTHERWISE NOTED). FIBERMESH MAY BE SUBSTITUTED IN LIEU OF WIRE MESH. PROVIDE MINIMUM 6 MIL POLYETHYLENE MOISTURE/VAPOR BARRIER AT INTERIOR SLAB LOCATIONS WITH MINIMUM 6" OVERLAP. TAPE ALL JOINTS.
- LAP SPICE SHALL BE MINIMUM 48XBAR DIAMETER (E.G. #6 BAR = 36", #5 BAR = 30") UNLESS NOTED OTHERWISE ON PLANS.
- PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLY, PLACE, AND SUPPORT ALL REINFORCING IN PLACE.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, RECESSES, ETC. AS REQUIRED BY OTHER TRADES OR AS NOTED ON PLANS BEFORE CONCRETE IS PLACED. ALL OPENINGS, HOLES, RECESSES, INSERTS, CUTOUTS, ETC. NOT SHOWN ON THESE CONSTRUCTION DOCUMENTS TO BE APPROVED BY THE ENGINEER.
- CONTRACTOR TO VERIFY ALL CAST-IN-PLACE AND EMBEDDED ITEMS INCLUDING, BUT NOT LIMITED TO, ANCHOR BOLTS, EMBED PLATES, ETC. BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR IS RESPONSIBLE FOR THE PROPER PLACEMENT, SHORING, AND CONSTRUCTION OF ALL FORM WORK.

WOOD:

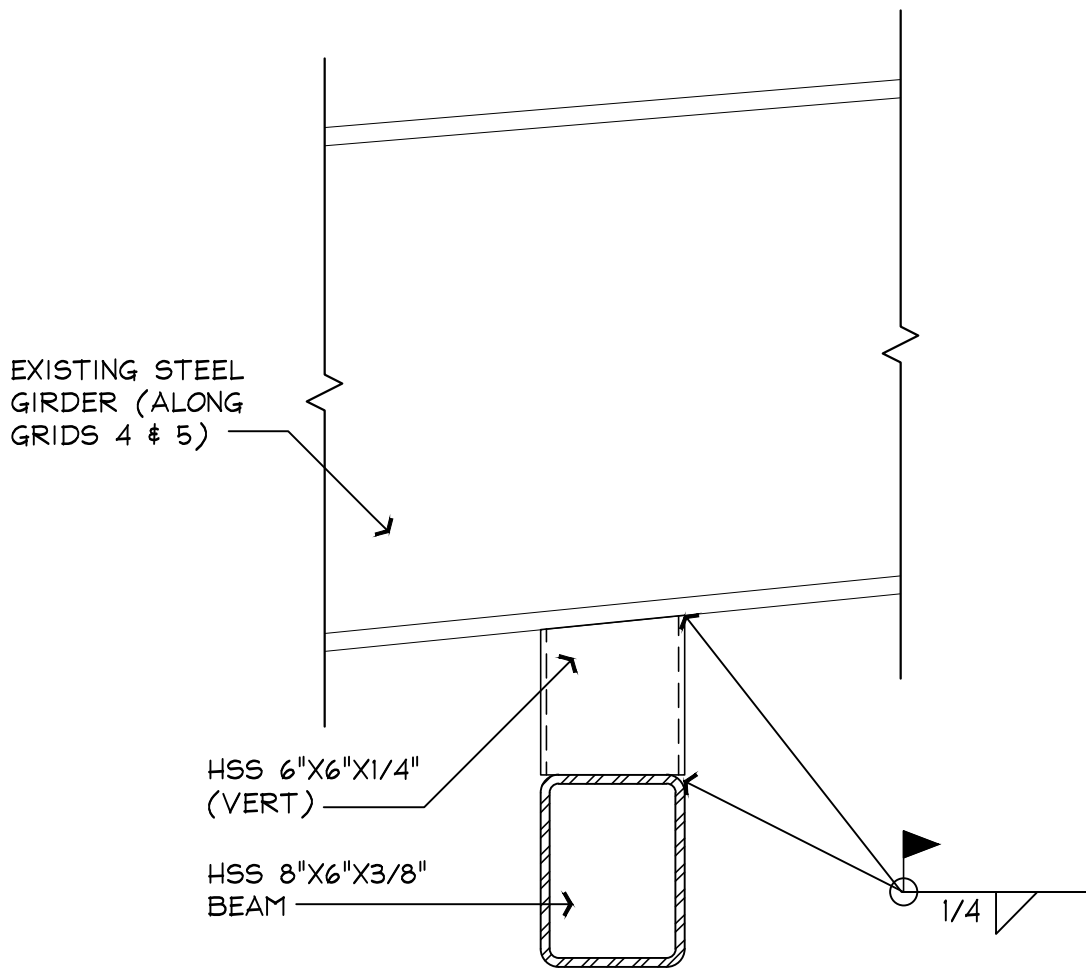
- PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING AGENCIES: LUMBER GRADING AGENCY (CERTIFIED BY ALSG) AND PLYWOOD GRADING AGENCY (CERTIFIED BY APA).
- ALL LUMBER SHALL BE SOUND, SEASONED, AND FREE FROM WARP.
- WOOD FRAMING STRUCTURAL MEMBERS TO BE #2 SOUTHERN YELLOW PINE (UNLESS NOTED OTHERWISE ON THESE DOCUMENTS). (DOES NOT INCLUDED NON BEARING INTERIOR STUD WALLS).
- ALL WOOD EXPOSED TO WEATHER OR IN CONTACT WITH EARTH TO BE PRESSURE TREATED.
- ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR STEEL SHALL BE PRESSURE TREATED OR SEAT PLATE/BARRIER SHALL BE PROVIDED BETWEEN WOOD AND NOTED MATERIALS.
- WALL SHEATHING TO BE 19/32" APA RATED EXPOSURE I CDX PLYWOOD U.O.N.
- INSTALL WOOD BLOCKING AS REQUIRED AT PLYWOOD SHEATHING PANEL EDGES.
- ALL CONNECTORS ARE SPECIFIED AS PER SIMPSON OR USP CATALOGS, LATEST EDITIONS. INSTALL AS PER MANUFACTURERS SPECIFICATIONS
- ALL CONNECTION HARDWARE IS TO BE FULLY FASTENED PER MANUFACTURER'S REQUIREMENTS.
- SEE PLAN FOR ALL REQUIRED CONNECTION DETAILS AT WALLS, CORNERS, INTERSECTIONS, OPENINGS, ETC.
- ALL STRUCTURAL FRAMING JOISTS, STUDS, RAFTERS, ETC. TO BE SPACED AS NOTED ON PLANS.

STRUCTURAL STEEL:

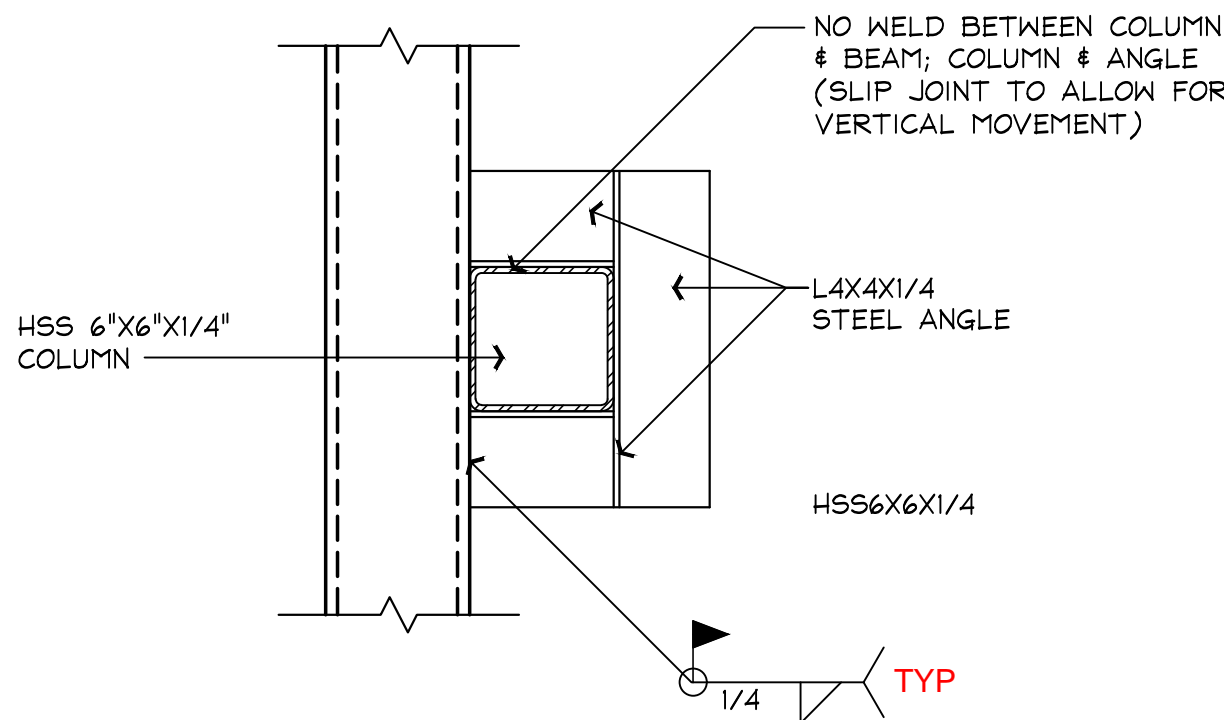
- ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
- INSTALLATION OF STEEL FRAMING TO BE PERFORMED BY A LICENSED STEEL ERECTOR.
- STRUCTURAL STEEL SHALL CONFORM TO:
 - WIDE FLANGE (WF): ASTM A992 (50 KSI YIELD)
 - SHAPES (L,T,C,PL): ASTM A36 (36 KSI YIELD)
 - STRUCTURAL TUBE (HSS): ASTM A500 (46 KSI YIELD)
 - STEEL PIPE (HSS): ASTM A500 (42 KSI YIELD)
 - ANCHOR BOLTS: ASTM F1554 (36 KSI YIELD)
 - FRAMING BOLTS: ASTM A325 OR A490
 - WELDING ELECTRODES: E70XX
- ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, AWS D1.1, ALL WELDING SHALL BE PERFORMED USING E70XX U.N.O.
- ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE GALVANIZED.
- CONTRACTOR AND STEEL ERECTOR TO RESPONSIBLE FOR ALL TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL MEMBERS HAVE INSTALLED AND COMPLETED.
- PREPARE AND CLEAN ALL STEEL SURFACES AS REQUIRED IN ACCORDANCE WITH AISC SPECIFICATIONS.
- SHOP DRAWINGS OF ALL STRUCTURAL STEEL MEMBERS TO BE PROVIDED TO ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING INCLUDING, BUT NOT LIMITED TO, LAYOUTS AND DETAILS, SIZE AND TYPES OF MEMBERS, CONNECTION DETAILS, WELDS AND BOLTS USED, AND ALL OTHER PERTINENT INFORMATION REQUIRED TO FABRICATE AND ERECT ALL STRUCTURAL STEEL FRAMING. SHOP DRAWINGS TO BE SIGNED AND SEALED BY A REGISTERED FLORIDA ENGINEER.



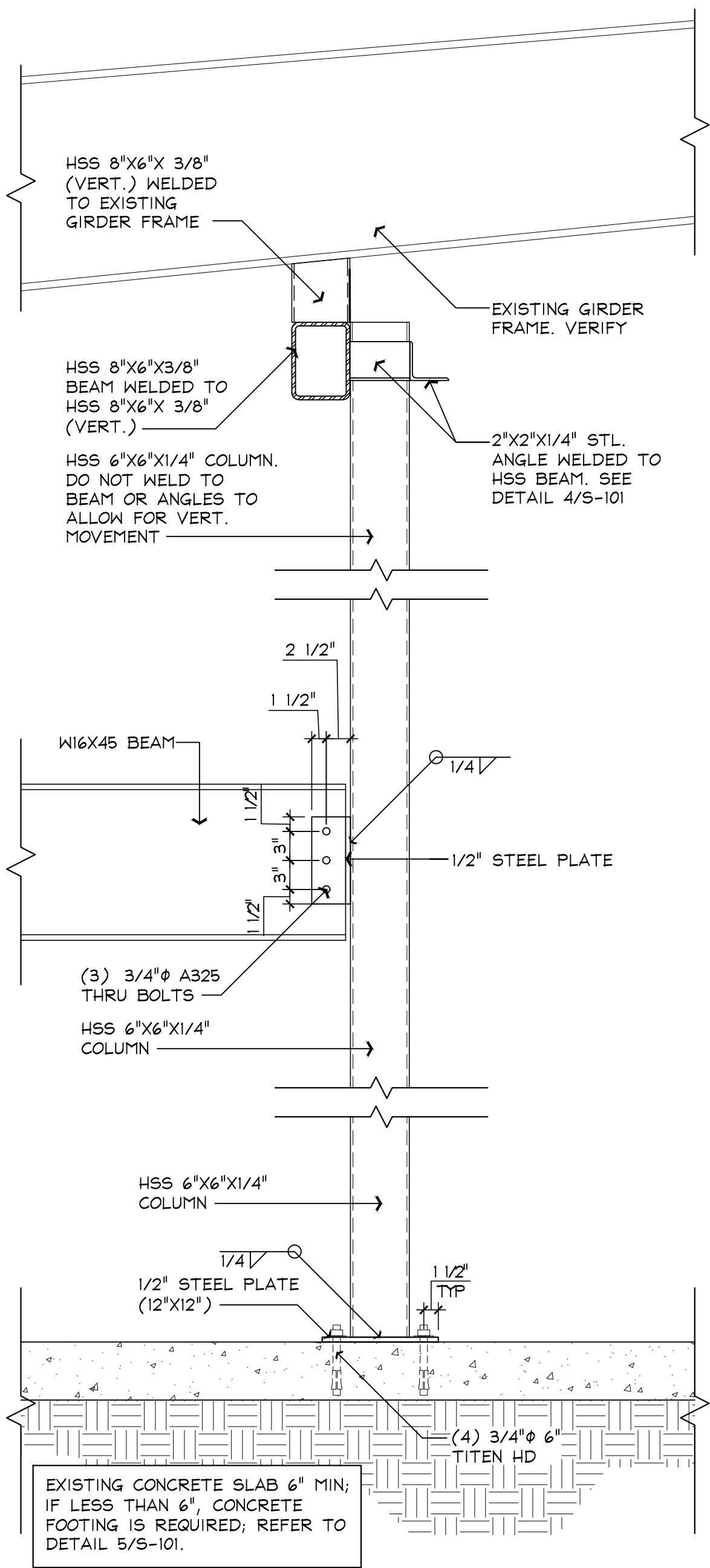
1 FRAMING PLAN
SCALE: 3/16" = 1'-0"



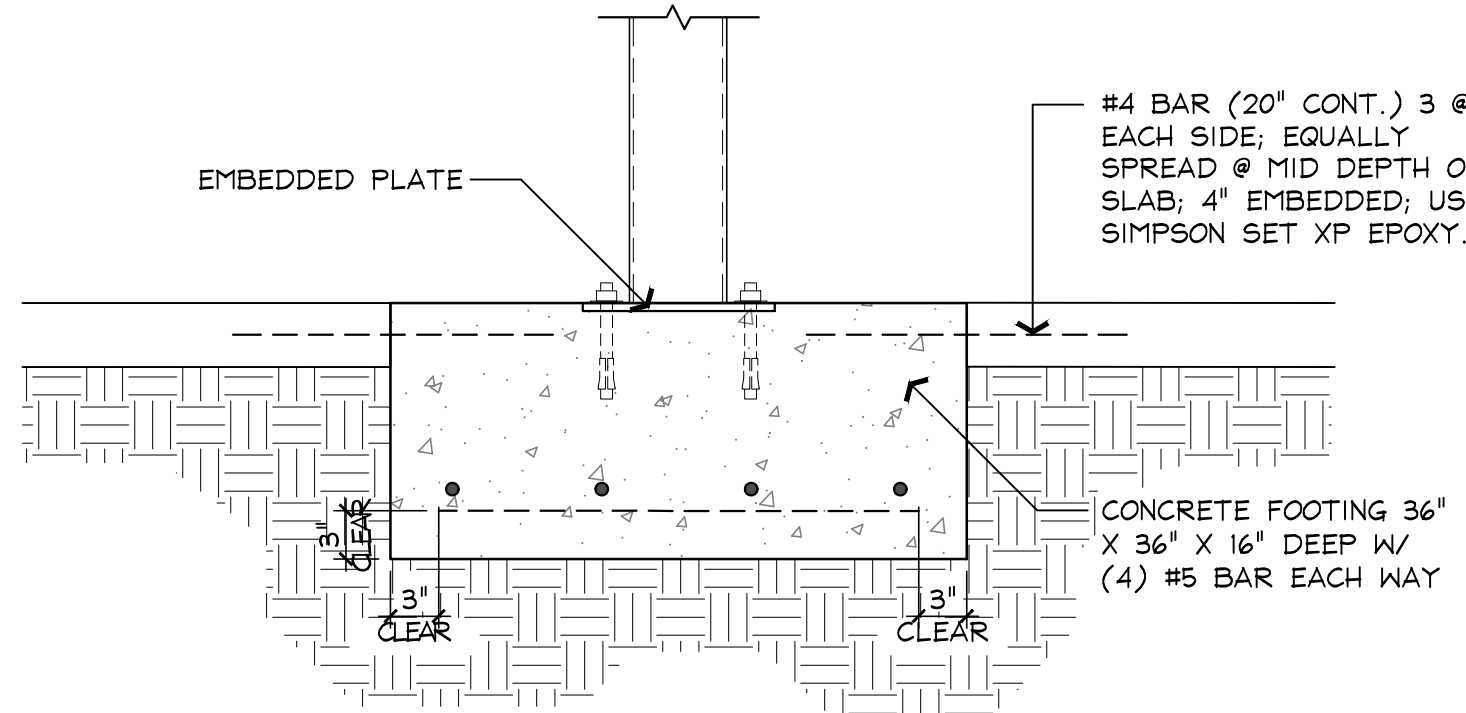
2 BEAM - GIRDER CONNECTION
SCALE: 1-1/2" = 1'-0"



3 BEAM - COLUMN CONNECTION
SCALE: 1-1/2" = 1'-0"



4 SECTION @ COLUMN
SCALE: 1" = 1'-0"



5 ALTERNATIVE COLUMN DETAIL W/ NEW CONC. FOOTING
SCALE: 3/4" = 1'-0"

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Michael Borremans
Advanced Structural
Consulting, Inc.
FL Reg. #73068
Cert. Au. #29659
730 S. Sterling Ave.
Suite #101
Tampa, FL 33609
Phone (813)974-1344

To the best of engineer's knowledge, plans and specifications comply with Florida Building Code 2019, Section 1009 for 150 mph wind zone. This drawing is signed and sealed for structural purposes of the drawing only. All architectural, structural, mechanical, and civil details shown are the responsibility of the engineer and are not the engineer's seal. It is the contractor's responsibility to review all drawings prior to beginning construction. Any discrepancies between field conditions and design professional's shop drawings, construction methods and these signed and sealed drawings shall be brought to the attention of the engineer of record prior to the construction. Engineer of Record is only responsible for the structural integrity of the project only. Advanced Structural Consulting, Inc. is not responsible for any dimensional information shown on these drawings. Engineer of Record is only responsible for the structural integrity of the project only. If any discrepancy is found on these drawings, Advanced Structural Consulting, Inc. is not responsible for the existing structure's condition. These drawings are valid for 12 months after date signed and sealed or until Florida Building Code requirements change.

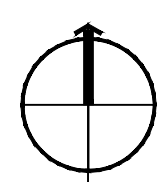
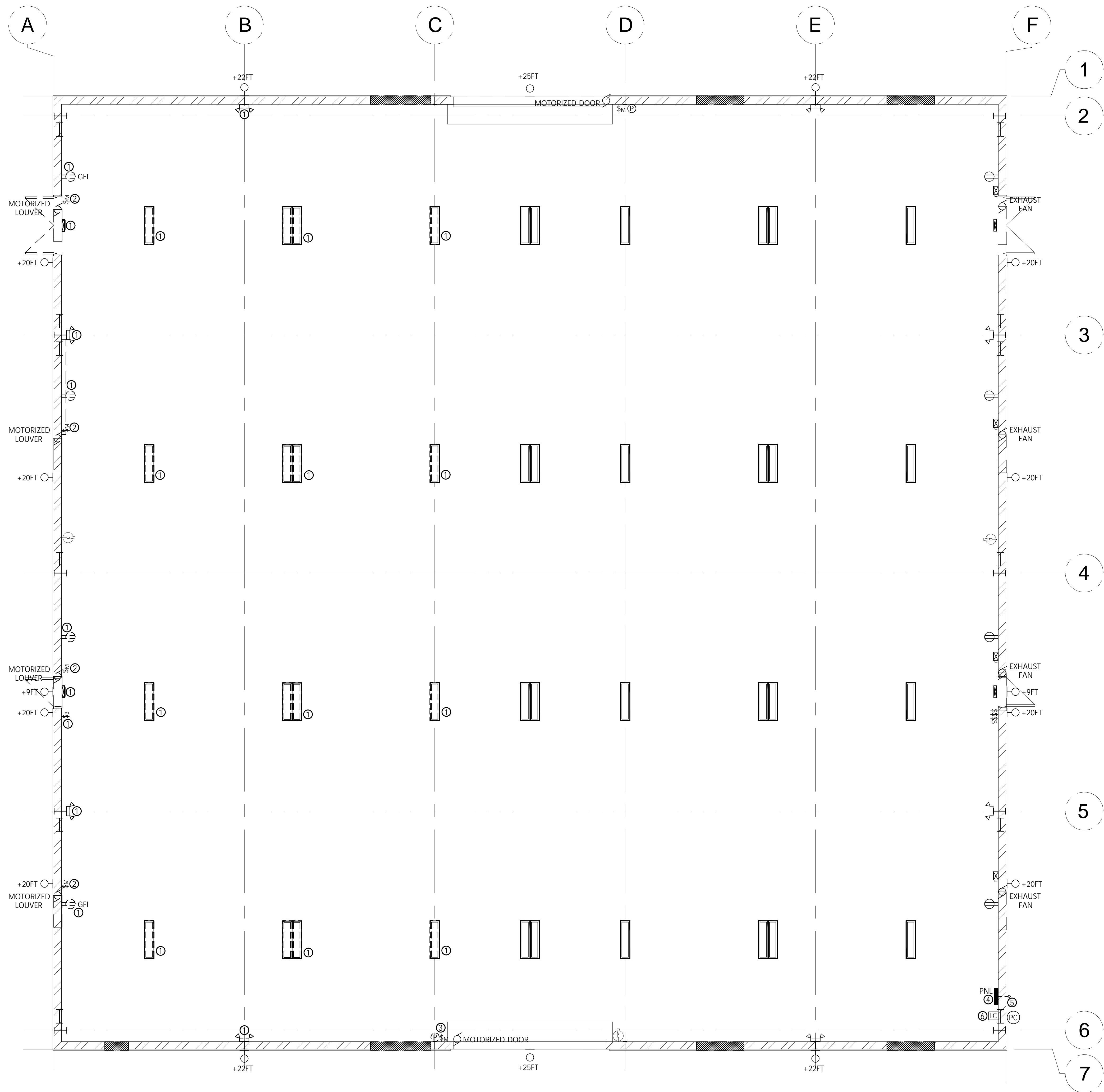
HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
Practical Training Site
Office & Classroom Renovation
in Existing Pavilion

Michael Borremans
FL REG PE73068

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JOB NO : 21021
DRAWN BY : MB
ISSUE DATE : 05.26.21
SHEET NAME: STRUCTURAL DETAILS
SHEET NUMBER: S-101

Dwg Name: 21020 ELECTRICAL Permit: 052721.dwg [Model] - Printed on: May 27, 2021 - 2:24PM, by Ken



1

ELECTRICAL DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

PLAN NOTES

- EXISTING FIXTURE/DEVICE TO BE REMOVED. REMOVE EXISTING CIRCUIT & RACEWAYS TO SOURCE OR TO FIRST OUTLET REMAINING IN SERVICE.
- EXISTING TOGGLE SWITCH DISCONNECT FOR MOTORIZED LOUVER TO BE RELOCATED WITH LOUVER. SEE NEW WORK POWER PLAN & COORDINATE WITH MECHANICAL.
- EXISTING PUSHBUTTON CONTROL & TOGGLE SWITCH DISCONNECT FOR ROLL-UP DOOR TO BE RELOCATED DUE TO NEW CONSTRUCTION. SEE NEW WORK POWER PLAN.
- EXISTING PANEL TO REMAIN AND BE MODIFIED. SEE NEW WORK POWER PLAN & POWER RISER.
- EXISTING UNDERGROUND PANEL FEEDER FROM ADJACENT BUILDING TO BE DISCONNECTED. SEE NEW WORK POWER PLAN & POWER RISER.
- EXISTING LIGHTING CONTACTOR TO REMAIN. CONTACTOR SERVES EXTERIOR LIGHTS & IS CONTROLLED BY PHOTOCELL.

GENERAL NOTES

- THIS PROJECT SHALL BE GOVERNED BY AND SHALL ADHERE TO THE FOLLOWING CODES AND STANDARDS:
 - FLORIDA BUILDING CODE 7TH EDITION (2020)
 - NATIONAL ELECTRICAL CODE NFPA 70 (2017)
 - LIFE SAFETY CODE NFPA 101 (2018 FLORIDA)
- ALL DEVICES/EQUIPMENT SHALL BE LISTED/LABELED/CERTIFIED BY UL OR AN EQUIVALENT ACCREDITED TESTING LABORATORY.
- ALL WIRING SHALL BE COPPER THHW/THWN, UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, EXISTING ELECTRICAL IS TO REMAIN.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS & COORDINATE MODIFICATIONS w/ OWNER'S REPRESENTATIVE.



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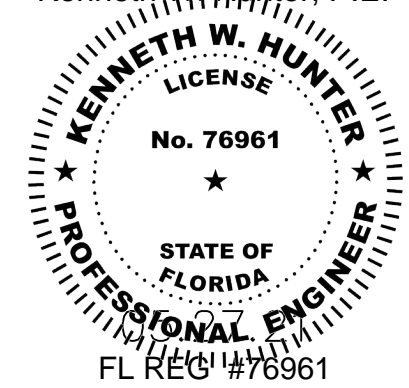
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Kenneth W. Hunter, P.E.



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JOB NO : 21021

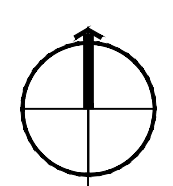
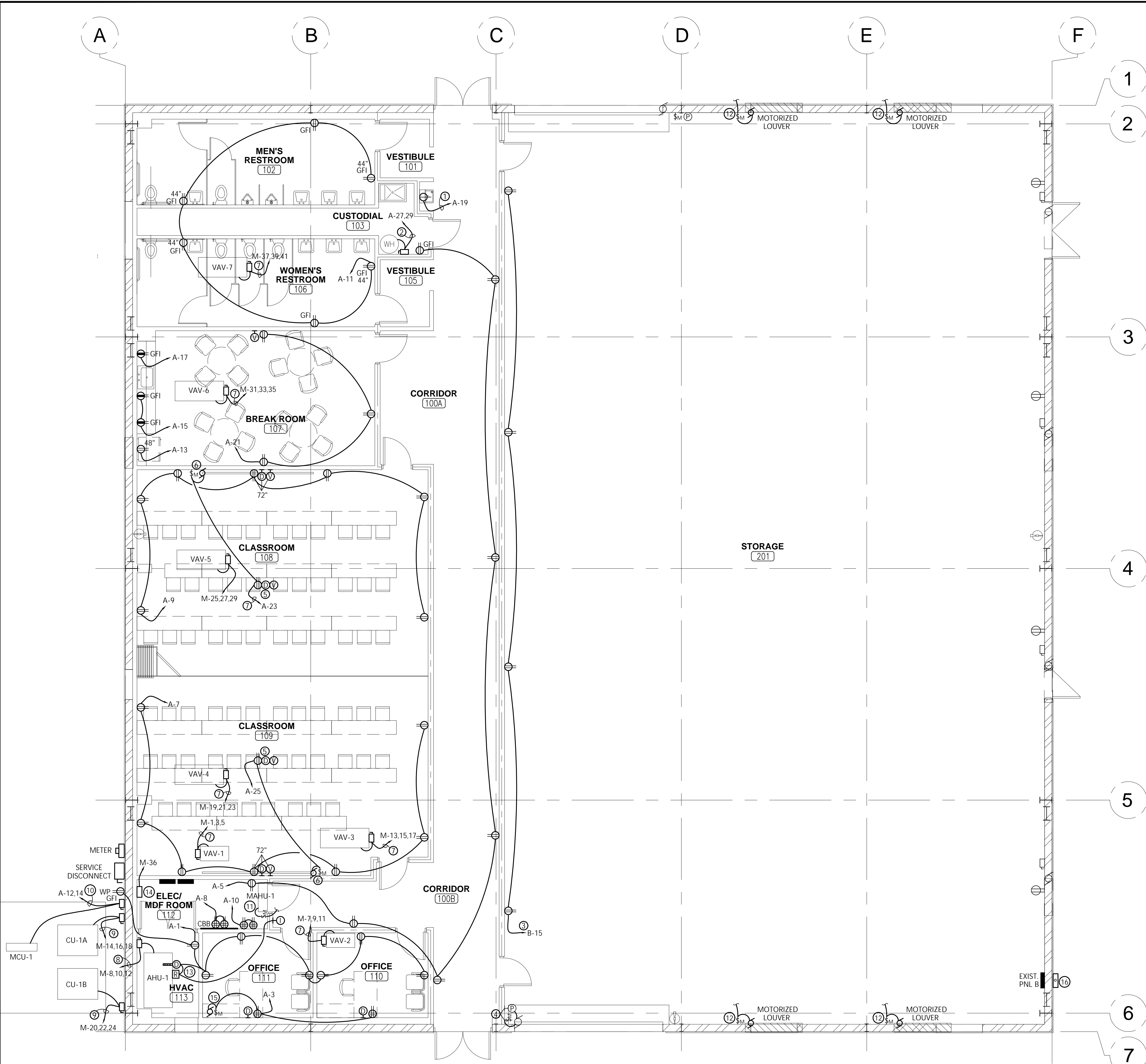
DRAWN BY : KAN

ISSUE DATE : 05.26.21

SHEET NAME:
ELECTRICAL
DEMOLITION PLAN

SHEET NUMBER
E-101

Dwg Name: 21020 ELECTRICAL Permit: 052721.dwg [Model] - Printed on: May 27, 2021 - 2:24PM, by Ken



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NEW WORK POWER PLAN

0 2 4 6 8 10 FEET
SCALE: 3/16" = 1'-0"

PLAN NOTES

- CONNECT TO GFCI-TYPE CIRCUIT BREAKER.
- TWO 10 AWG THWN CU & ONE 10 AWG CU GND IN $\frac{3}{4}$ " C. PROVIDE 30A/2P DISCONNECT. CONNECT WATER HEATER.
- CONNECT TO EXISTING 20A/1P CIRCUIT ABANDONED BY DEMOLITION.
- RE-INSTALL EXISTING TOGGLE SWITCH DISCONNECT & PUSHBUTTON CONTROL FOR MOTORIZED DOOR. RE-CONNECT TO EXISTING CIRCUIT. BOXES & RACEWAYS MAY BE SURFACE MOUNTED ON NEW WALL.
- PROVIDE CEILING MOUNT RECEPTACLE, DATA, AND VIDEO FOR CEILING MOUNT PROJECTOR. COORDINATE LOCATION PRIOR TO ROUGH-IN. PROVIDE RIGID SUPPORT FROM STRUCTURE.
- INSTALL PROJECTOR SCREEN CONTROL. COORDINATE LOCATION AND REQUIREMENTS WITH EQUIPMENT PROVIDED BEFORE ROUGH-IN.
- FOUR 12 AWG THWN CU AND ONE 12 AWG CU GND IN $\frac{1}{2}$ " C. PROVIDE 30A/3P DISCONNECT. COORDINATE LOCATION WITH MECHANICAL. CONNECT VAV.
- THREE 8 AWG THWN CU AND ONE 10 AWG CU GND IN 1" C. PROVIDE 60A/3P DISCONNECT. UNIT TO BE PROVIDED WITH SINGLE POINT ELECTRICAL CONNECTION. CONNECT AIR HANDLING UNIT.
- THREE 6 AWG THWN CU AND ONE 10 AWG CU GND IN 1-1/4" C. PROVIDE 60A/3P, NEMA 3R DISCONNECT FUSED @ 50 AMPS RK-5. CONNECT CONDENSING UNIT.
- TWO 12 AWG THWN CU & ONE 12 AWG CU GND IN $\frac{1}{2}$ " C. PROVIDE 30A/2P, NEMA 3R, NF DISCONNECT. CONNECT CONDENSING UNIT.
- PROVIDE MOTOR-RATED TOGGLE SWITCH FOR LOCAL DISCONNECT. CONNECT AIR HANDLING UNIT TO CONDENSING UNIT PER MANUFACTURER'S INSTRUCTIONS.
- RE-INSTALL MOTOR-RATED TOGGLE SWITCH FOR RELOCATED MOTORIZED LOUVER. RE-CONNECT TO EXISTING CIRCUIT SERVING LOUVER & INTERLOCK WITH CORRESPONDING EXHAUST FAN.
- PROVIDE DUCT DETECTOR & REMOTE INDICATOR WITH VISIBLE AND AUDIBLE INDICATION & TEST/RESET FUNCTION. CONNECT TO 120VAC POWER AND COORDINATE INSTALLATION WITH MECHANICAL.
- CONNECT BMS SYSTEM BY MECHANICAL.
- PROVIDE MOTOR-RATED TOGGLE SWITCH AND CONNECT MOTORIZED DAMPER.
- PROVIDE NEMA 3R JUNCTION BOX FOR PANEL B FEEDER. SEE POWER RISER.

GENERAL NOTES

- THIS PROJECT SHALL BE GOVERNED BY AND SHALL ADHERE TO THE FOLLOWING CODES AND STANDARDS:
 - FLORIDA BUILDING CODE 7TH EDITION (2020)
 - NATIONAL ELECTRICAL CODE NFPA 70 (2017)
 - LIFE SAFETY CODE NFPA 101 (2018 FLORIDA)
- ALL DEVICES/EQUIPMENT SHALL BE LISTED/LABELED/CERTIFIED BY UL OR AN EQUIVALENT ACCREDITED TESTING LABORATORY.
- ALL WIRING SHALL BE COPPER THHW/THWN, UNLESS NOTED OTHERWISE.
- ARCHITECT TO SELECT FINISHES OF ALL FIXTURES & DEVICES.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS & COORDINATE MODIFICATIONS w/ OWNER'S REPRESENTATIVE.



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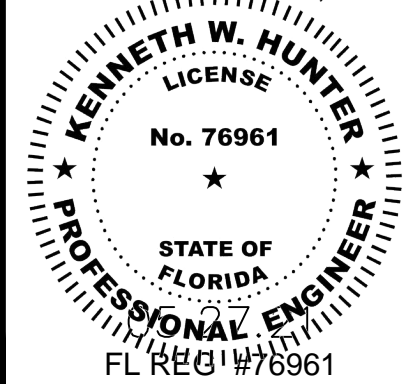
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Kenneth W. Hunter, P.E.



I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

JOB NO: 21021

DRAWN BY: KAN

ISSUE DATE: 05.26.21

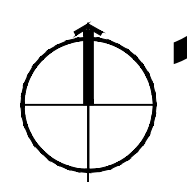
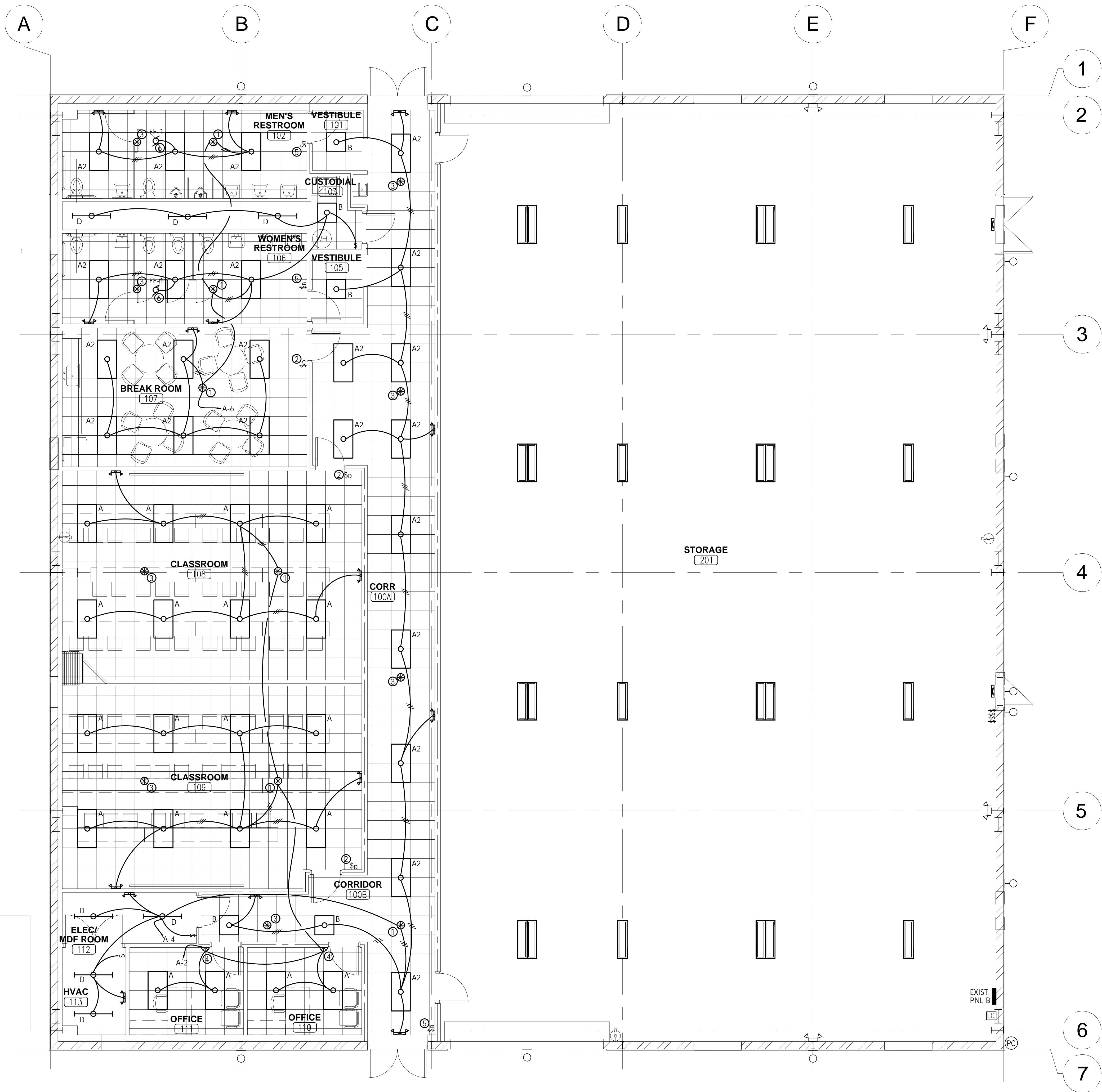
SHEET NAME:

NEW WORK
POWER PLAN

SHEET NUMBER

E-201

Dwg Name: 21020 ELECTRICAL Permit: 052721.dwg [Model] - Printed on: May 27, 2021 - 2:28PM, by Ken



NEW WORK LIGHTING PLAN

SCALE: 3/16" = 1'-0"

LIGHTING CONTROLS NOTES

- A. LIGHTING CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH FBC C405.
- B. CONTRACTOR SHALL PROGRAM ALL LIGHTING CONTROL DEVICES AS FOLLOWS:
OFFICES & CLASSROOMS - AUTOMATIC-ON OPERATION AT 50% OUTPUT, 20 MINUTE TIME DELAY.
CORRIDORS - AUTOMATIC-ON OPERATION AT 100% OUTPUT, 20 MINUTE TIME DELAY.
RESTROOMS - AUTOMATIC-ON OPERATION AT 100% OUTPUT, 10 MINUTE TIME DELAY.
- C. EXISTING LIGHTING IN STORAGE AREA TO REMAIN, NO MODIFICATIONS TO EXISTING CONTROLS.

PLAN NOTES

- ① PROVIDE CEILING MT, DUAL TECH OCCUPANCY SENSOR EQUAL TO WATTSTOPPER #DT-300 w/ #BZ-250 RELAY PACK.
- ② PROVIDE 0-10V DIMMING WALL SWITCH EQUAL TO WATTSTOPPER MODEL #DCLV2. CONNECT TO RELAY PACK AT MASTER SENSOR PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE MANUAL OPERATION OF RELAY. CONNECT TO 0-10V INPUT OF FIXTURES TO PROVIDE FULL-RANGE DIMMING OPERATION. FIXTURES SHALL ACTIVATE AT 50%.
- ③ PROVIDE CEILING MT, DUAL TECH. SLAVE OCCUPANCY SENSOR EQUAL TO WATTSTOPPER #DT-300. CONNECT TO MASTER SENSOR @ NOTE #1 PER MANUFACTURER'S INSTRUCTIONS.
- ④ PROVIDE WALL MT, DUAL TECH, SINGLE BUTTON OCCUPANCY SENSOR EQUAL TO WATTSTOPPER #DW-100.
- ⑤ PROVIDE 1-BUTTON, LOW VOLTAGE WALL SWITCH EQUAL TO WATTSTOPPER #LVSW-101. CONNECT TO RELAY PACK AT MASTER SENSOR PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE MANUAL OVERRIDE.
- ⑥ RESTROOM EXHAUST FAN TO BE INTERLOCKED WITH RESTROOM LIGHTING CONTROLS. COORDINATE WITH MECHANICAL.

GENERAL NOTES

1. THIS PROJECT SHALL BE GOVERNED BY AND SHALL ADHERE TO THE FOLLOWING CODES AND STANDARDS:
- FLORIDA BUILDING CODE 7TH EDITION (2020)
- NATIONAL ELECTRICAL CODE NFPA 70 (2017)
- LIFE SAFETY CODE NFPA 101 (2018 FLORIDA)
2. ALL DEVICES/EQUIPMENT SHALL BE LISTED/LABELED/CERTIFIED BY UL OR AN EQUIVALENT ACCREDITED TESTING LABORATORY.
3. ALL WIRING SHALL BE COPPER THHW/THWN, UNLESS NOTED OTHERWISE.
4. ARCHITECT TO SELECT FINISHES OF ALL FIXTURES & DEVICES.
5. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS & COORDINATE MODIFICATIONS w/ OWNER'S REPRESENTATIVE.
6. BYPASS LIGHTING CONTROLS WITH UNSWITCHED LEG FOR EMERGENCY LIGHTING UNITS AS REQUIRED.



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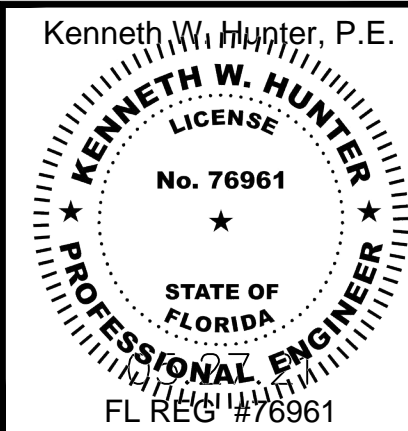
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JOB NO : 21021

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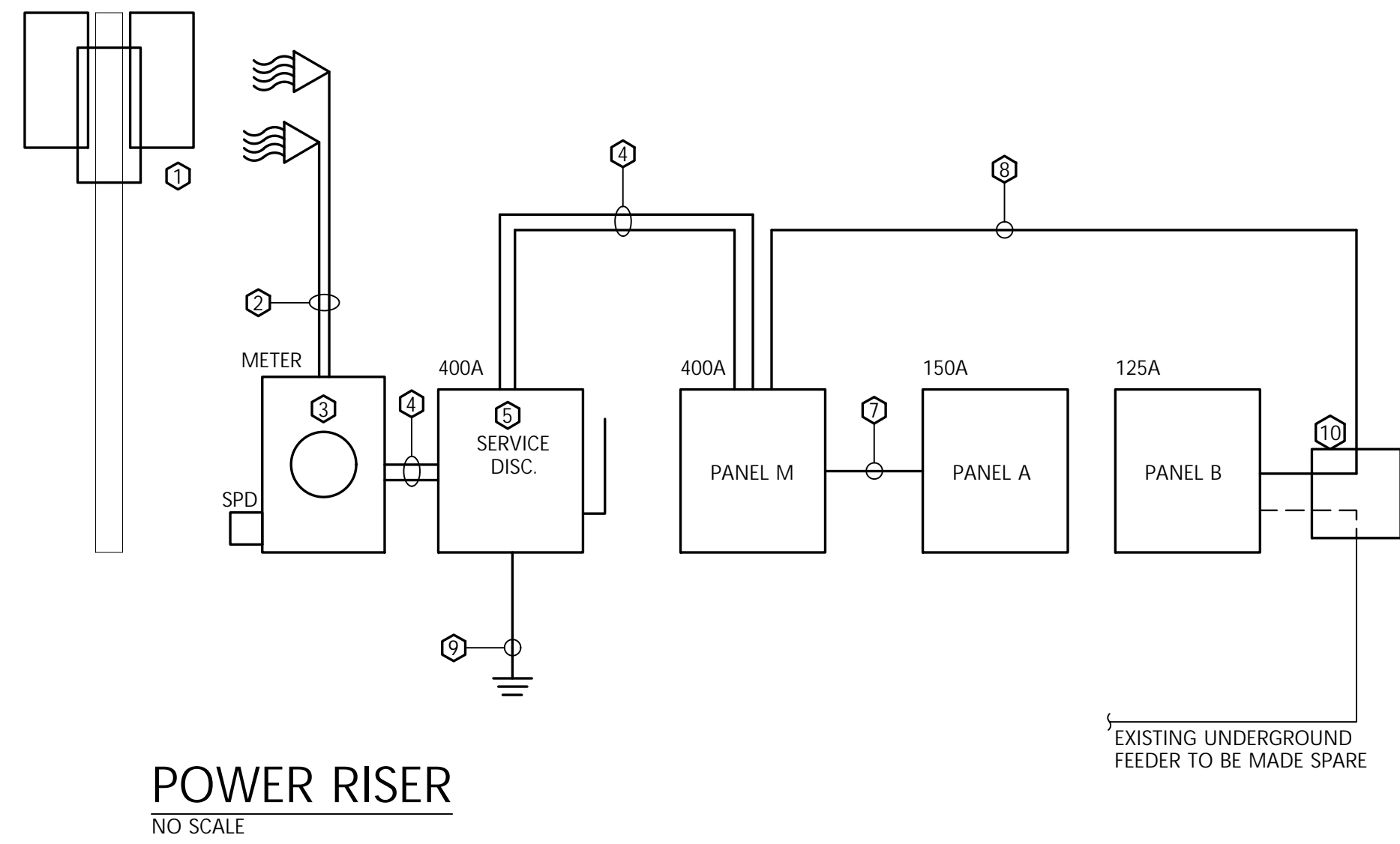
ISSUE DATE : 05.26.21

SHEET NAME:
**NEW WORK
LIGHTING PLAN**

SHEET NUMBER
E-202

ELECTRICAL LEGEND

- BRANCH CIRCUIT CONCEALED ABOVE CEILING OR IN WALLS. NUMBER OF TIC MARKS INDICATES NUMBER OF #10 CONDUCTORS WHEN MORE THAN TWO. ARROW INDICATES HOMERUN TO PANEL AND CIRCUIT INDICATED.
- A LIGHT FIXTURE. CAPITAL LETTER INDICATES FIXTURE TYPE. SEE FIXTURE SCHEDULE.
- CEILING MOUNTED LIGHT FIXTURE.
- EXIT LIGHT FIXTURE WITH INTEGRAL BATTERY BACKUP.
- EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY BACKUP.
- A.C. TOGGLE SWITCH, SINGLE POLE, 120-277VAC, 20A, SPECIFICATION GRADE. MT 44" AFF U.N.O.
- LOW VOLTAGE BUTTON SWITCH. SEE PLAN NOTES. MT 44" AFF U.N.O.
- DIMMER SWITCH. SEE PLAN NOTES. MT 44" AFF U.N.O.
- C L M CC P C C C L L P L PL
- LL M CC P C M " PL
- DUPLX RECEPTACLE - 3 WIRE GROUNDING TYPE, 125V, 15A OR 20A AS REQUIRED, TAMPER RESISTANT, SPECIFICATION GRADE. MT 18" AFF U.N.O.
- DUPLX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER.
- ABOVE COUNTER DUPLX RECEPTACLE. CONTRACTOR TO COORDINATE WITH MILLWORK PRIOR TO ROUGH-IN.
- QUAD RECEPTACLE - 3 WIRE GROUNDING TYPE, 125V, 15A OR 20A AS REQUIRED, TAMPER RESISTANT, SPECIFICATION GRADE. MT 18" AFF U.N.O.
- DISCONNECT SWITCH, SIZE AND ENCLOSURE TYPE SHOWN.
- POWER PANEL.
- JUNCTION BOX SIZED PER NEC WITH FLEXIBLE EQUIPMENT CONNECTION.
- MOTOR, HORSEPOWER INDICATED BY NUMBER INSIDE OR AS SCHEDULED.
- GROUND AS REQUIRED BY NEC & LOCAL CODES & AS INDICATED AS A MINIMUM.
- DATA/TEL OUTLET. PROVIDE 4" SQ BOX WITH DEVICE RING & 1"C TO ABOVE ACCESSIBLE. MT 18" AFF U.N.O.
- TELEVISION OUTLET. PROVIDE 4" SQ BOX WITH DEVICE RING & 1"C TO ABOVE ACCESSIBLE CEILING MT 18" AFF U.N.O.
- WP - WEATHERPROOF.
- AFF - ABOVE FINISHED FLOOR.
- NEC - NATIONAL ELECTRICAL CODE (NFPA 70).
- U.N.O. - UNLESS NOTED OTHERWISE.



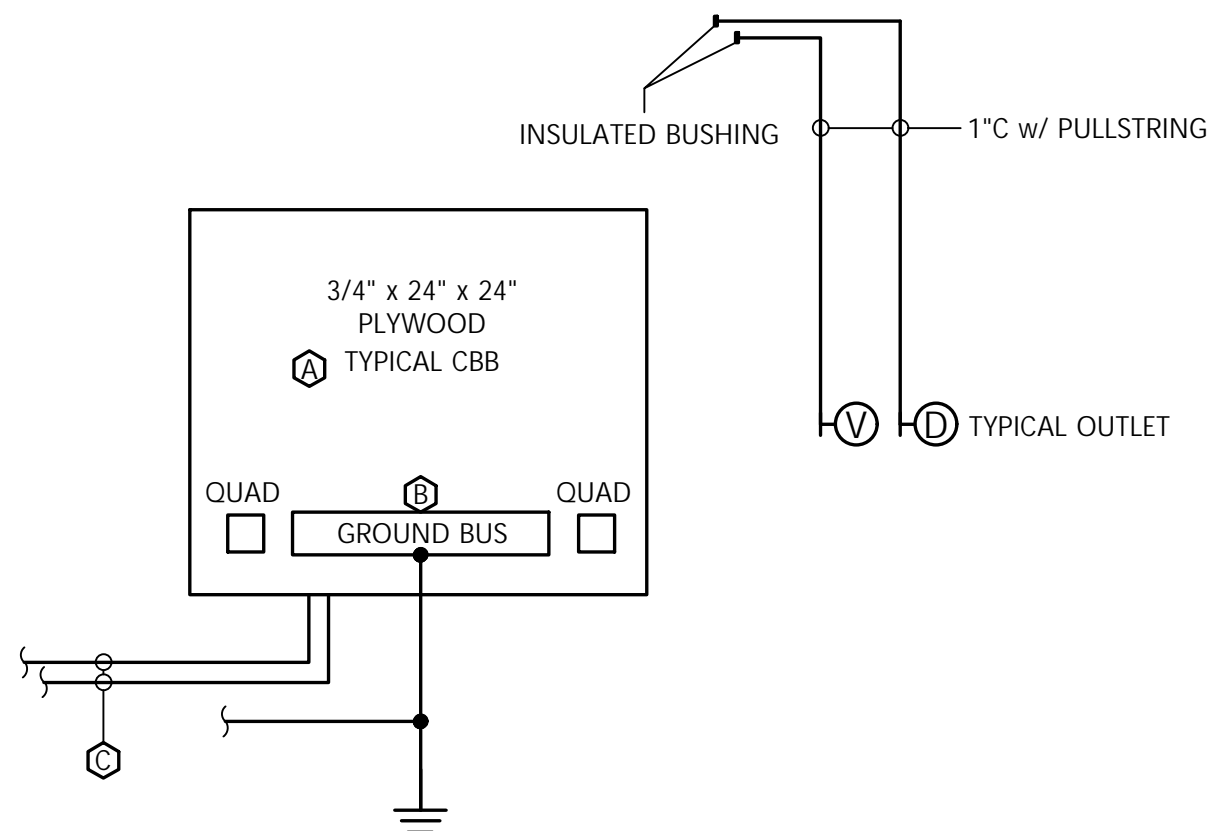
KEY TO POWER RISER

- 120/208V, 3PH POLE MOUNT TRANSFORMER BANK BY UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY.
- TWO 3" RMC CONDUITS WITH FOUR 350 KCMIL THWN AL IN EACH CONDUIT. PROVIDE WEATHERHEADS AND LEAVE 6FT SLACK FOR UTILITY CONNECTION. COORDINATE WITH UTILITY COMPANY.
- PROVIDE METER SOCKET PER UTILITY COMPANY SPECIFICATIONS. PROVIDE SPD PER UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY COMPANY.
- TWO 3" CONDUITS WITH FOUR 350 KCMIL THWN AL IN EACH CONDUIT.
- PROVIDE 400A/3P, NEMA 3R, H.D. DISCONNECT w/SOLID NEUTRAL, GROUND TERMINAL, LUG KIT SIZED FOR INCOMING CONDUCTORS, & SERVICE ENTRANCE LABEL, FUSED AT 400 AMPS RK-1.
- TWO 3" CONDUITS WITH FOUR 350 KCMIL THWN AL & ONE 3 AWG CU GND IN EACH CONDUIT.
- FOUR 3/4" AWG THWN AL AND ONE 6 AWG CU GND IN 2-1/2"C.
- THREE 3/4" AWG THWN CU AND ONE 6 AWG CU GND IN 2"C.
- 1/2" AWG COPPER. CONNECT TO BLDG STEEL, METAL WATER LINE, CONCRETE ENCASED ELECTRODE PER NEC 250.50, & TO TWO 3/4" X 10FT COPPER-BOUNDED GROUND RODS DRIVEN 10FT APART.
- PROVIDE 16" X 16" X 6" NEMA 3R JUNCTION BOX WITH REMOVABLE COVER. MOUNT ON EXTERIOR WALL FOR FUTURE ATS. DISCONNECT EXISTING UNDERGROUND FEEDER FROM PANEL B & EXTEND TO JUNCTION BOX. DISCONNECT GROUND AND NEUTRAL AT PANEL B IF SUCH CONNECTION EXISTS. MAKE EXISTING FEEDER SAFE AND LEAVE SPARE FOR FUTURE CONNECTION TO ATS. ROUTE NEW FEEDER TO EXISTING PANEL B VIA JUNCTION BOX & CONNECT EXISTING PANEL.

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG No.	SOURCE					MOUNTING	NOTES
			QTY	W/EA	LUMENS	COLOR	TYPE		
A	C-LITE	C-TR-A-BT24-73L-40K-WH	-	56	7300	4000K	LED	RECESSED IN GRID CEILING	2 X 4 LED BASKET TROFFER
A2	C-LITE	C-TR-A-BT24-43L-40K-WH	-	34	4300	4000K	LED	RECESSED IN GRID CEILING	2 X 4 LED BASKET TROFFER
B	C-LITE	C-TR-A-BT22-45L-40K-WH	-	35	4500	4000K	LED	RECESSED IN GRID CEILING	2 X 2 LED BASKET TROFFER
D	C-LITE	LS4-60L-840-R-UL-10V w/ AC-144-Q14B-LP	-	45	6000	4000K	LED	SUSPENDED TO 10FT AFF	LINEAR LED VAPOR TIGHT FIXTURE
	BEGHELLI	PEH-1	-	3.4	-	-	LED	WALL @ 96" AFF TO BOTTOM	LED EMERGENCY FIXTURE
	BEGHELLI	VA-4-R-SA	-	3.4	-	-	LED	UNIVERSAL CANOPY	LED EXIT LIGHT

NOTES: 1. SUFFIX 'E' TO FIXTURE TYPE DENOTES EMERGENCY BATTERY PACK (MINIMUM 1400 LUMENS) INSTALLED IN FIXTURE AND CONNECTED AHEAD OF ALL SWITCHING.

2. LUMEN VALUES GIVEN ARE NOMINAL.



TYPICAL COMMUNICATIONS RISER

NO SCALE

KEY TO COMM. RISER

- PAINT W/ 3 COATS INSULATING PAINT. FINISH TO MATCH WALLS.
- PROVIDE GROUNDING BUS BAR AT BACKBOARD, AND CONNECT TO BUILDING GROUNDING ELECTRODE SYSTEM USING 2 AWG CU GND.
- TWO 3" COMMUNICATIONS SERVICE ENTRANCE CONDUITS ROUTED TO SERVICE PROVIDER DEMARK POINT. COORDINATE WITH SERVICE PROVIDER.

PANEL 'M'									
120/208V, 3PH, 4W, 400 AMP MLO, SURFACE MT PANELBOARD, 42 CKT, 22000 MIN A.I.C.									
CKT	SERVING	LOAD VA	TRIP	POLE	PHASE A B C	TRIP	POLE	LOAD VA	SERVING
1	VAV-1	340	15	3					SPACE
3		340	-	-					SPACE
5		340	-	-					SPACE
7	VAV-2	340	15	3					AHU-1
9		340	-	-					
11		340	-	-					
13	VAV-3	1840	20	3					CU-1A
15		1840	-	-					
17		1840	-	-					
19	VAV-4	1500	20	3					CU-1B
21		1500	-	-					
23		1500	-	-					
25	VAV-5	1500	20	3					NEW SUB-PANEL A
27		1500	-	-					
29		1500	-	-					
31	VAV-6	840	15	3					EXIST SUB-PANEL B
33		840	-	-					
35		840	-	-					BMS
37	VAV-7	1340	15	3					SPD
39		1340	-	-					
41		1340	-	-					
CONNECTED LOADS: PHASE A = 36710 VA PHASE B = 35790 VA PHASE C = 28720 VA TOTAL = 101220 VA = 281 AMPS									

PANEL 'A'									
120/208V, 3PH, 4W, 225 AMP MLO, SURFACE MT PANELBOARD, 42 CKT, 10000 MIN A.I.C.									
CKT	SERVING	LOAD VA	TRIP	POLE	PHASE A B C	TRIP	POLE	LOAD VA	SERVING
1	RCPTS- OFFICE	1440	20	1				1120	LTS - CLASSROOMS
3	RCPTS- OFFICE	800	20	1				950	LTS - HALLS
5	RCPTS- HALL/CUSTOD	1260	20	1				1170	LTS - RESTROOMS
7	RCPTS- CLASSROOM	1260	20	1				800	CBB
9	RCPTS- CLASSROOM	1260	20	1				1000	RACK
11	RCPTS- RESTROOMS	1080	20	1				1040	MCU/MAHU-1
13	REFRIGERATOR	800	20	1					
15	SMALL APPLIANCE	1500	20	1					
17	SMALL APPLIANCE	1500	20	1					
19	EWC	500	20	1					
21	RCPTS- BREAKROOM	540	20	1					
23	PROJECTOR	1500	20	1					
25	PROJECTOR	1500	20	1					
27	WATER HEATER	2250	30	2					
29		2250	-	-					
31	SPARE		20	1					
33	SPARE		20	1					
35	SPARE		20	1					
37	SPD		30	3					
39			-	-					
41			-	-					
CONNECTED LOADS: PHASE A = 8460 VA PHASE B = 8300 VA PHASE C = 9800 VA TOTAL = 26560 VA = 74 AMPS									

EXISTING PANEL 'B'									
120/208V, 1PH, 3W, 125 AMP MCB, SURFACE MT PANELBOARD, 30 CKT, 10000 MIN A.I.C. (SQUARE D NO PANELBOARD)									
CKT	SERVING	LOAD VA	TRIP	POLE	PHASE A B	TRIP	POLE	LOAD VA	SERVING
1	EXIST LTS- 2L EAST	560	20	1				1200	EXIST EXHAUST FAN
3	SPARE		20	1				1200	
5	EXIST LTS- 6L CENTER	880	20	1				1200	EXIST EXHAUST FAN
7	EXIST LTS- 6L EAST	880	20	1				1200	
9	EXIST LTS- SW EXT	450	20	1				1200	EXIST EXHAUST FAN
11	EXIST LTS- NE EXT	450	20	1				1200	
13	EXIST RCPTS- EAST	720	20	1				1200	EXIST EXHAUST FAN
15	NEW RCPTS- CENTER	720	20	1				1200	
17	EXIST OH DOOR S	1920	30	1					
19	EXIST OH DOOR N	1920	30	1					
21	LC/PC	400	20	1					
23	EXIST EM LTS- EAST	200	20	1					
25	SPARE		20	1					
27	-								
29	-								
CONNECTED LOADS: PHASE A = 9730 VA PHASE B = 8970 VA TOTAL = 18700 VA = 78 AMPS									

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LICENSE
No. 76961
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FL REG # 176961

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JOB NO : 21021
DRAWN BY : KAN
ISSUE DATE : 05.26.21
SHEET NAME:
ELECTRICAL LEGEND, SCHEDULES, & RISER
SHEET NUMBER
E-301

HDC HUNTER DESIGN CONSULTING

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GA CA #PEF007171

Dwg Name: 21026 ELECTRICAL Permit:052721.dwg [Model] - Printed on May 27, 2021 - 2:28PM by Ken

SECTION 16130

RACEWAYS AND BOXES

PART 1 GENERAL

1.01 THIS SECTION INCLUDES BASIC MATERIALS AND ELECTRICAL METHODS FOR ALL OF DIVISION 16, ELECTRICAL RELATED WORK.

PART 2 PRODUCTS

2.01 RACEWAYS AND FITTINGS:

- A. RIGID OR INTERMEDIATE GRADE STEEL CONDUIT SHALL BE MILD STEEL PRODUCED TO ANSI C80.1 AND FEDERAL SPECIFICATION WW-C-581 AND SHALL BE UNDERWRITER'S APPROVED HOT DIPPED GALVANIZED, ZINC METALIZED OR SHERADIZED INSIDE AND OUT. THE THREADED ENDS OF THE CONDUIT SHALL BE ZINC COATED. CONDUIT FITTINGS SHALL BE ZINC COATED AND SHALL BE THREADED TYPE. FITTINGS SHALL BE ALL STEEL. "ERIKSON" COUPLINGS SHALL BE USED WHERE NECESSARY. RUNNING THREADS ARE NOT ALLOWED. CONNECTIONS SHALL BE MADE WITH DOUBLE LOCKNUTS EXCEPT AT THREADED HUBS. TERMINATIONS SHALL UTILIZE INSULATED BUSHINGS.
- B. THIN WALL CONDUIT SHALL BE UNDERWRITER'S APPROVED GALVANIZED ELECTRICAL METALLIC TUBING. FITTINGS FOR EMT SHALL BE STEEL SET SCREW OR STEEL COMPRESSION TYPE. CONNECTORS SHALL HAVE INSULATED THROATS.
- C. FLEXIBLE METAL CONDUIT (GREENFIELD) SHALL BE GALVANIZED AND CONFORM TO FEDERAL SPECIFICATION WW-C-566 AND FITTINGS SHALL CONFORM TO FEDERAL SPECIFICATION W-F-406, TYPE 1, CLASS 1. LIQUID TIGHT FLEXIBLE CONDUIT SHALL CONFORM TO NEC ARTICLE 350 AS MANUFACTURED BY ANAMET, THOMAS & BETTS, OR ELECTRI-FLEX. FITTINGS SHALL BE AS MANUFACTURED BY APPLETON, EFCOR, OR THOMAS & BETTS AND CONFORM TO FEDERAL SPECIFICATION W-F-406, TYPE 1, CLASS 3.
- D. PVC CONDUIT SHALL BE SCHEDULE 40 OR SCHEDULE 80, 90 DEGREES C UL LISTED, AND UL LISTED FOR ABOVEGROUND AND UNDERGROUND USES. CONDUIT SHALL CONFORM TO NEMA TC-2 AND UL-651 STANDARDS. ALL JOINTS SHALL BE SOLVENT CEMENTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
- E. WIREWAYS AND AUXILIARY GUTTERS: GALVANIZED STEEL WITH REMOVABLE COVERS UNLESS INDICATED AS HINGED. COMPONENTS SHALL BE AS MANUFACTURED BY SQUARE "D", HOFFMAN, ARLINGTON, OR COOPER B-LINE.

2.02 BOXES AND ACCESSORIES:

- A. SHEET STEEL BOXES AND ACCESSORIES SHALL CONFORM TO FEDERAL SPECIFICATION W-C-568: AS MANUFACTURED BY APPLETON, ARLINGTON, OR CROUSE-HINDS.
- B. PULL BOXES AND JUNCTION BOXES LARGER THAN 4-11/16" SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN ACCORDANCE WITH NFPA-70, ARTICLE 314. BOXES SHALL BE AS MANUFACTURED BY HOFFMAN, APPLETON, ARLINGTON, OR CROUSE-HINDS.
- C. CAST OUTLET BOXES SHALL HAVE THREADED CONDUIT ENTRANCES AND GASKETED COVERS. BOXES SHALL HAVE A MINIMUM OF TWO HUBS, EXCEPT WHERE NOTED OTHERWISE.

PART 3 EXECUTION

3.01 RACEWAYS:

- A. RIGID CONDUIT SHALL BE USED IN AREAS SUBJECT TO PHYSICAL DAMAGE, WHERE RUN EXPOSED, IN DAMP OR WET LOCATIONS, IN SLABS AND CONCRETE AND BURIED IN EARTH.
- B. PAINT METAL CONDUITS IN OR BELOW GROUND FLOOR SLAB OR IN GROUND WITH 2 COATS OF ASPHALTUM UP TO 2" ABOVE FINISHED FLOOR SLAB INSIDE THE BUILDING OR 6" ABOVE FINISHED GRADE OUTSIDE THE BUILDING.
- C. USE FLEXIBLE CONDUIT FOR ALL CONNECTIONS TO VIBRATING EQUIPMENT SUCH AS MOTORS, VALVES, AND DEVICES ON PIPING AND DUCTWORK. FLEXIBLE CONDUIT MAY BE USED FOR SHORT CONNECTIONS TO CONTROL DEVICES, RECESSED FIXTURES, AND SIMILAR ITEMS. THE CONNECTION BETWEEN STRUCTURE AND THE FIRST POINT OF ATTACHMENT TO VIBRATING EQUIPMENT SHALL BE FLEXIBLE. MACHINERY CONNECTIONS SHALL NOT EXCEED THREE FEET. FIXTURE WHIPS SHALL NOT EXCEED SIX FEET AND SHALL BE SUPPORTED FROM STRUCTURE SO AS NOT TO LAY ON CEILING TILE.
- D. USE LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTIONS TO ALL EQUIPMENT IN DAMP OR WET LOCATIONS.
- E. ELECTRICAL METALLIC TUBING MAY BE USED FOR BRANCH CIRCUIT WIRING IN AREAS ABOVE GRADE AND WITHIN THE BUILDING EXCEPT IN WET AREAS, SLABS AND AS INDICATED OTHERWISE.
- F. INSTALL EXPOSED CONDUIT PARALLEL WITH OR AT RIGHT ANGLES TO THE BUILDING LINES. CONDUIT IN CONCRETE SHALL BE LOCATED SO AS NOT TO AFFECT THE STRUCTURAL STRENGTH OF THE SLABS AS DETERMINED BY THE ARCHITECT. CONCEAL CONDUITS IN WALLS, ABOVE CEILINGS, IN OR UNDER SLABS OR IN FURRING, EXCEPT IN MECHANICAL AND ELECTRICAL ROOMS AND WHERE INDICATED AS EXPOSED ON EXISTING WALLS. IN AREAS WITH EXPOSED STRUCTURE AND NO FINISHED CEILING, CONDUITS SHALL BE RUN AS HIGH AS POSSIBLE AND HELD TIGHT TO WALLS OR UNDERSIDE OF ROOF.
- G. CHANGES IN DIRECTION OF RUNS SHALL BE MADE WITH SYMMETRICAL BENDS OR CAST METAL FITTINGS. FIELD MADE BENDS AND OFFSETS SHALL BE MADE WITH AN APPROVED CONDUIT BENDING DEVICE. DAMAGED OR DEFORMED CONDUITS SHALL NOT BE INSTALLED. NO BEND SHALL EXCEED 90 DEGREES. PROPER OFFSETS SHALL BE USED TO PREVENT STRAIN ON CONNECTORS AT CONDUIT TERMINATION POINTS. ALL RACEWAY RUNS SHALL BE CAPPED DURING THE COURSE OF CONSTRUCTION TO PREVENT ACCUMULATION OF DIRT AND DEBRIS. ALL CONDUITS SHALL BE CLEARED OF ALL DIRT AND WATER BEFORE CONDUCTORS MAY BE PULLED IN.
- H. SCHEDULE 40, PVC WILL BE PERMITTED WHERE ALLOWED BY APPLICABLE CODES AND AS OUTLINED BELOW. PVC MAY BE USED ONLY IN CONCRETE AND IN EARTH, AND MAY NOT BE USED IN WALL OR CEILING SPACES. EXPOSED CONDUIT IN EXTERIOR LOCATIONS SHALL BE SCHEDULE 80. PVC MAY BE USED FOR SERVICE LATERALS IF ENCASED IN A MINIMUM OF TWO INCHES OF 3000 PSI CONCRETE. ALL BENDS IN PVC LARGER THAN 1" NOMINAL TRADE SIZE SHALL BE MADE WITH RIGID METAL CONDUIT. PENETRATIONS THROUGH CONCRETE SLABS SHALL BE MADE WITH RIGID GALVANIZED STEEL CONDUIT.
- I. ALUMINUM CONDUIT IS NOT PERMITTED IN THE GROUND OR IN SLABS.
- J. ENT IS NOT PERMITTED.
- K. ALL RACEWAY SHALL BE SUPPORTED AT CODE REQUIRED INTERVALS WITH BRACKETS AND/OR CLAMPS AS MANUFACTURED FOR CONDUIT SUPPORTS. TIE WIRE IS NOT AN ACCEPTABLE MEANS OF SUPPORT.

3.02 BOXES AND ACCESSORIES:

- A. USE CAST METAL OUTLETS WITH GASKETED COVERS FOR ALL EXTERIOR AND FOR ALL DAMP LOCATIONS, AND FOR ALL EXPOSED OUTLETS.
- B. BOXES OVER TWO INCHES IN WIDTH INSTALLED IN STUD WALLS SHALL BE SUPPORTED FROM TWO SIDES.
- C. ALL BOXES SHALL BE RIGIDLY SUPPORTED.
- D. GANGABLE TYPE BOXES SHALL NOT BE USED.
- E. USE MASONRY BOXES IN ALL BLOCK WALLS. AT THE INDIVIDUAL CELL WHERE EACH BOX IS LOCATED, FILL THE CELL ENTIRELY WITH MORTAR. SWITCH BOXES ARE NOT PERMITTED IN BLOCK WALLS.

3.03 MISCELLANEOUS:

- A. PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL CHASES TO PREVENT DRAFTS.
- B. PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING EXPANSION JOINTS IN THE STRUCTURE.
- C. FIRE RATING: RESTORE FIRE RATING WHERE PIERCING OCCURS THROUGH FIRE RATED CEILINGS OR BETWEEN FIRE RATED WALLS. FIRESTOP MATERIAL SHALL BE AS MANUFACTURED BY 3M COMPANY AND UL LISTED FOR USE IN THE CONSTRUCTION ASSEMBLY IN WHICH IT IS TO BE USED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS AND CEILINGS.

D. P L P L L L L MP C " " P P LL LL MP
CONDUITS OVER 1".
END OF SECTION 16130

SECTION 16140

WIRING DEVICES

PART 1 PRODUCTS

1.01 WIRING DEVICES

- A. ALL RECEPTACLES SHALL BE THE GROUNDING TYPE WITH GROUND CONNECTION MADE THROUGH AN EXTRA POLE WHICH SHALL BE PERMANENTLY CONNECTED TO THE RACEWAY SYSTEM.
- B. RECEPTACLES FOR 120 VOLT CIRCUITS SHALL BE RATED FOR 20 AMPERES MINIMUM. SPECIFICATION GRADE IS REQUIRED.
- C. SPECIAL RECEPTACLES SHALL BE RATED FOR AMPERAGE, VOLTAGE AND HAVE NEMA CONFIGURATION AS INDICATED OR SCHEDULED OR SHALL BE SELECTED TO MEET THE PARTICULAR REQUIREMENTS. COORDINATE SELECTION WITH SHOP DRAWINGS AND EQUIPMENT TO BE FURNISHED BY THE OWNER.
- D. TOGGLE SWITCHES SHALL BE HEAVY DUTY QUIET TYPE RATED AT 20 AMPERES 120/277 V AC ONLY.
- E. COVER PLATES FOR DAMP LOCATION APPLICATION SHALL HAVE SPRING HINGED COVERS TO CLOSE AUTOMATICALLY WHEN NOT IN USE. COVER SHALL BE OF LEXAN OR HEAVY DUTY DIE CAST ZINC AND PLATED ALUMINUM. COVER PLATES FOR WET LOCATION APPLICATION SHALL HAVE SPRING HINGED COVERS AND SHALL BE LISTED AS WEATHERPROOF WHILE IN USE. COVER SHALL BE OF LEXAN OR SIMILAR MATERIAL.
- F. COVER PLATES ON EXPOSED BOXES SHALL BE STEEL.
- G. DEVICE & PLATE FINISHES TO BE SELECTED BY ARCHITECT.

PART 3 EXECUTION

3.01 OUTLETS:

- A. INSTALL PLATES AND COVERS ON ALL OUTLETS. INSTALL ALL DEVICES UNIFORMLY IN EACH AREA.

3.02 MOUNTING:

- A. MOUNTING HEIGHTS (TO CENTER LINE OF BOX): GENERALLY MOUNT OUTLETS 18" UP UNLESS OTHERWISE NOTED. MOUNT SWITCHES AT 48" UP. IN BLOCK WALLS, BOXES SHALL BE LOCATED SO AS TO BE IN ONLY ONE BLOCK. COORDINATE WITH ENGINEER PRIOR TO ROUGH-IN. IN WAINSCOTING AND TILE WALLS, OUTLETS SHALL BE COMPLETELY WITHIN OR COMPLETELY OUTSIDE OF WAINSCOTING OR TILE TRIM.
- B. TEST EACH SOCKET OF EACH OUTLET WITH A DEVICE INTENDED FOR THE PURPOSE.
- C. DEVICES SHALL BE PULLED UP TIGHT TO OUTLET BOX. DEVICE SHALL NOT BE SUPPORTED BY COVER PLATE.
- D. OUTLET BOXES RECESSED BEHIND FINISHED SURFACES SHALL MEET CODE REQUIREMENTS FOR MAXIMUM ALLOWABLE DISTANCE BETWEEN FRONT OF BOX AND FINISHED SURFACE.
- E. OUTLETS MOUNTED ABOVE COUNTERS SHALL BE MOUNTED HORIZONTALLY 4" ABOVE THE BACKSPASH TO THE CENTER OF THE DEVICE.
- F. OUTLETS SHALL BE INSTALLED PLUMB WITHIN 1/16" FROM TOP TO BOTTOM.

END OF SECTION 16140

SECTION 16410

SAFETY SWITCHES AND CIRCUIT BREAKERS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE:

PANELBOARD SECTION 16440

1.02 SUBMITTALS:

SUBMIT SHOP DRAWINGS FOR APPROVAL INCLUDING CATALOG CUTS SHOWING SIZES TYPES, AND CHARACTERISTICS OF ALL PRODUCTS.

PART 2 PRODUCTS

2.01 SAFETY SWITCHES:

- A. SAFETY SWITCHES SHALL BE HEAVY-DUTY TYPE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. FUSIBLE SWITCHES SHALL BE PROVIDED WITH ONE-TIME CARTRIDGE OR FERRULE-TYPE FUSES OF CAPACITIES SHOWN ON DRAWINGS. AN EXTRA SET OF FUSES OF EACH SIZE SHALL BE PROVIDED AND TURNED OVER TO THE OWNER. FUSIBLE SWITCHES SHALL BE 240 VOLT RATED FOR THE 208 VOLT SYSTEM AND SHALL BE PROVIDED WITH GENERAL PURPOSE ENCLOSURES UNLESS NOTED OTHERWISE. ALL SWITCHES FOR MOTORS SHALL BE HORSE-POWER RATED. FUSIBLE SWITCHES FOR MOTORS SHALL BE FURNISHED WITH DUAL ELEMENT FUSES OF THE RECOMMENDED SIZE FOR THE PARTICULAR MOTOR INSTALLED TO PROVIDE MOTOR RUNNING OVER CURRENT PROTECTION. SWITCHES SHALL BE LABELED WITH BLACK MICARTA TAGS ENGRAVED WITH WHITE LETTERS IDENTIFYING COMPONENT PROTECTED AND POWER SOURCE. TAGS SHALL BE ATTACHED WITH MACHINE SCREWS OR RIVETS.

2.02 CIRCUIT BREAKERS, MOLDED CASE:

- A. CIRCUIT BREAKERS SHALL BE OF THE AMPERE RATING, VOLTAGE RATING, NUMBER OF POLES AND CLASS OR INTERRUPTING CAPACITY (I.C.) AS INDICATED. CONTRACTOR SHALL COORDINATE INTERRUPTING CAPACITY WITH THE SERVING UTILITY COMPANY AND THE CHARACTERISTICS OF THEIR DISTRIBUTION SYSTEM. INTERRUPTING RATINGS ARE GIVEN IN ROOT MEAN SQUARE (RMS), SYMMETRICAL AMPERES BASED ON NEMA TEST PROCEDURES. LUGS AND TERMINALS SHALL BE UL APPROVED FOR COPPER-ALUMINUM.
- B. EACH CIRCUIT BREAKER SHALL HAVE A TRIP UNIT FOR EACH POLE WITH ELEMENTS PROVIDING INVERSE TIME DELAY UNDER OVERLOAD CONDITIONS AND INSTANTANEOUS MAGNETIC TRIP FOR SHORT CIRCUIT PROTECTION UNLESS INDICATED AS NON-AUTOMATIC. TRIP ELEMENTS SHALL OPERATE A COMMON TRIP BAR TO OPEN ALL ELEMENTS.
- C. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE OR EQUAL TO SQUARE D I-LINE PLUG ON TYPE.
- D. THE SERVICE DISCONNECT SHALL BE A MOLDED CASE CIRCUIT BREAKER OF THE FRAME AS INDICATED AND/OR SERVICE ENTRANCE RATED, HEAVY DUTY, FUSED DISCONNECT SWITCH WITH FUSES AND ENCLOSURE TYPE AS INDICATED. CIRCUIT BREAKER OVERLOAD TRIP RATING SHALL BE AS INDICATED. EACH POLE OF THE BREAKER SHALL PROVIDE INVERSE TIME DELAY AND INSTANTANEOUS CIRCUIT PROTECTION. BREAKER OPERATOR SHALL BE A TOGGLE HANDLE TO PROVIDE QUICK-MAKE AND QUICK-BREAK OPERATION. HANDLE SHALL BE TRIP FREE.

- E. SEE DRAWINGS FOR BREAKER SIZES AND INTERRUPTING RATINGS.

- F. USE HACR LABELED BREAKERS FOR HEATING AND AIR CONDITIONING LOADS.

- G. ALL BREAKERS USED ON LIGHTING CIRCUITS SHALL BE SWITCHING DUTY RATED.

- H. ALL BREAKERS AND SAFETY SWITCHES SHALL HAVE A 90 DEG. C RATING.

PART 3 EXECUTION

3.01 INSTALLATION:

- A. MOUNT GROUPED SWITCHES, DISCONNECTS AND CONTROLS ON BACKBOARDS OR UNISTRUT.

- B. GENERALLY, MOUNT SWITCHES AND DISCONNECTS BETWEEN 4' AND 5' UP, READILY ACCESSIBLE.

END OF SECTION 16410

SECTION 16440

PANELBOARDS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE:

SAFETY SWITCHES AND CIRCUIT BREAKERS SECTION 16410

- 1.02 SUBMITTALS: SUBMIT SHOP DRAWINGS FOR APPROVAL ON EACH PANELBOARD INDICATING CABINET DIMENSIONS, COMPONENT ARRANGEMENTS, CHARACTERISTICS, AND SIZES.

PART 2 PRODUCTS

2.01 PANELBOARDS FOR LIGHTING AND POWER:

- A. PANELS SHALL BE STANDARD DEAD FRONT CIRCUIT BREAKER PANELS WITH MAIN CIRCUIT BREAKER OR MAIN LUGS AS SHOWN. BUS SHALL BE COPPER OR ALUMINUM OF AMPERE RATING AS SHOWN ARRANGED FOR VOLTAGE, PHASE AND NUMBER OF WIRES CALLED FOR BY THE DRAWINGS. FRONT SHALL BE COMPLETE WITH DOOR AND FLUSH CHROME PLATED LOCK AND CATCH. PANELS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED. PROPER TRIM SHALL BE FURNISHED FOR EACH PANEL. BRANCH CIRCUIT BREAKERS SHALL BE TOGGLE TYPE, QUICK MAKE, QUICK BREAK, THERMAL MAGNETIC TRIP. ALL MULTI-POLE BREAKERS SHALL BE SINGLE-HANDLE, COMMON TRIP TYPE. MINIMUM AIC OF CIRCUIT BREAKERS SHALL BE AS INDICATED ON THE DRAWINGS.
- B. DIRECTORY SHALL BE NEATLY TYPED AND ENCLOSED IN PLASTIC ENVELOPE ON INSIDE OF PANEL DOOR. THE DIRECTORY SHALL INDICATE THE OWNER'S ROOM NUMBER OR ROOM NAME. COORDINATE WITH FINAL ROOM IDENTIFICATION PLAQUES.
- C. CIRCUIT BREAKERS SHALL BE ARRANGED AS INDICATED ON THE PANEL SCHEDULES ON THE DRAWINGS. DEVIATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL BE DOCUMENTED ON THE AS-BUILT DRAWINGS.
- D. PANELS SHALL BE CONSTRUCTED OF CODE GAUGE STEEL. BOX SHALL BE TREATED WITH A RUST INHIBITOR. FRONT SHALL HAVE GRAY FINISH OVER A RUST INHIBITOR. INDOOR UNITS SHALL BE NEMA 1 ENCLOSURE. OUTDOOR UNITS SHALL BE IN WEATHERPROOF ENCLOSURE. ALL CABINET PANELS, CLOSURES, DOORS, STRUCTURAL FRAMES AND FASTENERS SHALL BE COATED, PLATED, AND FABRICATED FROM RUST RESISTING MATERIALS WHICH WILL STAND UP UNDER INTERIOR DAMP LOCATIONS, OR WHERE OUTSIDE WILL RESIST THE ELEMENTS OF THE WEATHER AND PROTECT THE INTERIOR PARTS.
- E. LOCKS ON ALL PANELBOARDS SHALL BE KEYED ALIKE. PROVIDE A MINIMUM OF SIX KEYS TO THE OWNER'S REPRESENTATIVE.
- F. PANELBOARDS SHALL BE FACTORY ASSEMBLED AND TESTED. CIRCUIT BREAKER PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, OR CUTLER-HAMMER. PROVIDE GROUNDING TERMINAL BUS. SERVICE EQUIPMENT SHALL HAVE SERVICE ENTRANCE LABEL.
- G. WHERE PANELS ARE PLACED IN AREAS WHICH MAY BE USED FOR STORAGE, MARK A RECTANGLE ON THE FLOOR IN FRONT OF THE PANELS WITH 3" WIDE YELLOW PAINT CORRESPONDING TO THE CLEARANCE REQUIRED BY THE NATIONAL ELECTRICAL CODE. FILL THE INTERIOR OF THE RECTANGLE WITH DIAGONAL 3" YELLOW STRIPES ON 8" CENTERS. MARK THE INTERIOR OF THE RECTANGLE WITH 3" BLACK LETTERS: "NO STORAGE". COORDINATE WITH THE ARCHITECT PRIOR TO PAINTING ANY FLOOR FINISH.
- H. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO INSURE SPACE REQUIRED BY NEC 110.26 IS MAINTAINED FOR ALL PANELBOARDS. THE DEDICATED SPACE EXTENDS FROM THE FLOOR TO SIX FEET ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING (NOT A SUSPENDED CEILING) WITH A WIDTH AND DEPTH THAT OF THE EQUIPMENT. NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER, OR PASS THROUGH SUCH SPACES.

- I. ALL SERVICE ENTRANCE EQUIPMENT AND SUB PANELS SHALL HAVE TRANSIENT VOLTAGE SURGE PROTECTION. UL SUPPRESSED VOLTAGE RATING SHALL BE LESS THAN 400 VOLTS FOR 120/208 VOLT PANELS. RESPONSE TIME SHALL BE LESS THAN 0.5 NANOSECONDS. SERVICE ENTRANCE PROTECTION SHALL BE FACTORY INSTALLED OR FIELD INSTALLED UNITS EQUAL TO ADVANCED PROTECTION TECHNOLOGIES TE/X. SUB PANEL PROTECTION SHALL BE EQUAL TO ADVANCED PROTECTION TECHNOLOGIES TE/XF. PROVIDE FLUSH MOUNT TRIM FOR TVSS UNITS AT FLUSH MOUNTED PANELBOARDS. PROVIDE NEMA 4X ENCLOSURES FOR TVSS UNITS IN EXTERIOR LOCATIONS. PROVIDE A SEPARATE THIRTY AMP THREE POLE CIRCUIT BREAKER IN EACH PANEL FOR TVSS CONNECTION. LEADS BETWEEN TVSS AND CIRCUIT BREAKER SHALL BE LESS THAN FIFTEEN INCHES TOTAL LENGTH WITH NO SHARP BENDS AND NO BEND OVER NINETY DEGREES.

- J. ALL LUGS AND BREAKER TERMINALS SHALL BE RATED AT 75 DEGREES C.

END OF SECTION 16440

SECTION 16500

LIGHTING FIXTURES

PART 1 GENERAL

1.01 SCOPE:

THIS SECTION INCLUDES THE LIGHTING FIXTURES, LAMPS, TRIM, BALLASTS, POLES, BASES, AND ACCESSORIES.

1.02 QUALIFICATIONS

- A. PHOTOMETRIC DATA OF INDEPENDENT, NATIONALLY RECOGNIZED TESTING AGENCIES WILL BE ACCEPTED.

- B. PHOTOMETRIC DATA OF TESTING LABORATORIES OF FIXTURE MANUFACTURERS MAY BE ACCEPTED IF CERTIFIED AND APPROVED BY THE ENGINEER.

1.03 SUBMITTALS:

- A. SUBMIT SHOP DRAWINGS FOR EACH FIXTURE ASSEMBLY CONSISTING OF CATALOG CUTS, PHOTOMETRIC DATA, DIMENSIONS, BALLASTS DATA, VOLTAGE, MATERIALS, FINISHES AND INSTALLATION DATA. SUBMITTALS SHALL BE BOUND IN A MANUAL, INDEXED AND IDENTIFIED IN ACCORDANCE WITH SCHEDULES.

1.04 FIXTURES, GENERAL REQUIREMENTS:

- A. LIGHT FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS AND ALL NECESSARY MOUNTING HARDWARE AND TRIM AND INSTALLED AS SHOWN ON THE DRAWINGS.
- B. LIGHT FIXTURES SHALL BE NEATLY AND FIRMLY MOUNTED, USING STANDARD SUPPORTS FOR OUTLETS AND FIXTURES. SUITABLE SUPPORT MEMBERS SHALL BE PROVIDED FOR ALL FIXTURES. OUTLET BOXES AND HANGERS UNDER THIS SECTION OF SPECIFICATION.
- C. EXCEPT AS INDICATED OR SPECIFIED OTHERWISE, THE METAL PARTS OF LIGHT FIXTURES SHALL BE OF CORROSION-RESISTANT METAL OR SHALL BE SUITABLY FINISHED TO RESIST CORROSION; METAL PORTIONS OF FIXTURES WHICH WILL BE VISIBLE AFTER INSTALLATION SHALL HAVE AN UNBLEMISHED FINISH.
- D. LENS FRAMES SHALL BE SUPPORTED SO AS TO AVOID SAGGING, AND SHALL BE READILY REMOVABLE WITH SUITABLE HINGES AND LATCHES. REMOVABLE FRAMES SHALL HAVE ADEQUATE RETENTION FOR USE WHEN SERVICING.
- E. PLASTIC LENS SHALL BE MADE OF HEAT-RESISTANT ACRYLIC. MINIMUM THICKNESS SHALL BE 0.125 INCH.
- F. FIXTURES IN EXTERIOR LOCATIONS SHALL HAVE NICKEL PLATED SCREW SHELLS.
- I. EMERGENCY BATTERY UNITS SHALL HAVE A FIVE YEAR UNCONDITIONAL WARRANTY WITH A TEN YEAR PRO-RATA WARRANTY. MANUFACTURER MUST PROVIDE A LETTER OF WARRANTY IF THE ABOVE IS NOT STANDARD.

PART 3 EXECUTION

3.01 INSTALLATION:

- A. ADJUST DIRECTIONAL FIXTURES TO OBTAIN THE MOST UNIFORM DISTRIBUTION. ORIENT ALL SIMILAR FIXTURES CONSISTENTLY. COORDINATE FIXTURES WITH AIR GRILLES, PIPES AND DUCTWORK.
- B. FIXTURE BOTTOMS, EDGES, AND ENDS SHALL BE EVEN. CLEAN ALL FIXTURES OF DEBRIS AND FINGERPRINTS AND ADJUST TRIM TO FIT SURFACES SNUG.
- C. PROVIDE ALL NECESSARY HANGERS AND MOUNTING ACCESSORIES FOR A COMPLETE INSTALLATION.
- D. LOCATE THE FIXTURE IN THE EQUIPMENT ROOMS TO BEST ILLUMINATE THE EQUIPMENT INSTALLED. USE CHAINS OR RODS TO SUPPORT BELOW DUCTS AND PIPES AS REQUIRED. INSTALL AFTER PIPES AND DUCTS ARE IN.
- E. TEST ALL FIXTURES, SWITCHES AND CONTROLS FOR OPERATION.
- F. FIRE RATED SUSPENDED CEILING GRID SYSTEMS SHALL BE SUPPORTED WITH A VERTICAL HANGER FROM EACH CORNER OF EACH LAY-IN TROFFER OR AS REQUIRED BY THE CEILING SYSTEM UL LISTING.
- G. TROFFERS SHALL BE FASTENED TO THE CEILING GRID MEMBERS BY APPROVED METHODS PER SECTION 410.16(C) OF THE NEC.
- H. RECESSED FIXTURES THAT ARE NOT IC RATED, MUST HAVE THREE INCHES OF CLEAR AIR SPACE ALL AROUND THE FIXTURE. IN INSULATED CEILINGS, THE CONTRACTOR SHALL PROVIDE AN INSULATION DAM AROUND THE FIXTURE TO KEEP INSULATION AT LEAST THREE INCHES FROM THE FIXTURE.

- I. FOR INSTALLATION OF LAY-IN TROFFERS PROVIDE AS A MINIMUM TWO HANGER WIRES ON OPPOSITE CORNERS OF THE TROFFER AND SECURED TO THE STRUCTURE.

END OF SECTION 16500

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This item has been electronically signed and sealed by Kenneth W. Hunter, P.E. using a Digital signature and date. Printed copies of this document must not be considered signed and sealed and the signature must be verified on any electronic copies.

HILLSBOROUGH COUNTY

SHERIFF'S OFFICE

Practical Training Site

Office & Classroom Renovation

in Existing Pavilion

Kenneth W. Hunter, P.E.

KENNETH W. HUNTER

LICENSE

No. 76961

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FL REG #76961

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

JOB NO : 21021
DRAWN BY : KAN
ISSUE DATE : 05.26.21

SHEET NAME:
ELECTRICAL
SPECIFICATIONS

SHEET NUMBER
E-402



HUNTER
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Dwg Name: MECHANICAL.dwg [M-001] - Printed on May 27, 2021 - 6:13PM, by tim

MECHANICAL SPECIFICATIONS

SCOPE: THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING A PROPOSAL. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODES SEVENTH EDITION (2020), WITH ALL AMENDMENTS, AND LOCAL CODES AND ORDINANCES. INSTALLATION SHALL COMPLY WITH THE CODE REFERENCED STANDARDS SET BY NFPA, ASHRAE, ASPE, SMACNA, NEC AND UL. THE SYSTEMS, EQUIPMENT, DEVICES AND ACCESSORIES SHALL BE INSTALLED, FINISHED, TESTED AND ADJUSTED FOR CONTINUOUS AND PROPER OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE AND SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCE WITH THEIR WORK. THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO SHOW GENERAL ARRANGEMENT, CAPACITY AND LOCATION OF VARIOUS COMPONENTS, EQUIPMENTS, AND DEVICES. IF WORK IS REQUIRED IN A MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK, OR SHOULD DISCREPANCIES APPEAR AMONG THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S RECOMMENDATIONS,THE CONTRACTOR SHALL REQUEST INTERPRETATION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL FURNISH AND INSTALL ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT SPECIFIED IN THE DOCUMENTS.

REQUIRED COORDINATION: ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION PLANS: IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.

REQUIRED ACCESS: CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT AND DEVICES THAT REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES, IF REQUIRED. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS, EVEN IF NOT INDICATED ON THE DRAWINGS AT NO ADDITIONAL COST TO OWNER.

WIND RESISTANCE: ALL EQUIPMENT, APPLIANCE AND SUPPORTS LOCATED EXTERIOR OF THE FACILITY SHALL BE INSTALLED TO RESIST WIND LOADS AS DETAILED IN THE BUILDING CODE.

CUTTING AND PATCHING: ALL OPENINGS AROUND DUCT OR PIPE PENETRATIONS THROUGH SMOKE OR FIRE RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIALS HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING OR FLOOR PENETRATED.

EQUIPMENT TAGS: ALL EQUIPMENT WILL HAVE A PERMANENTLY FIXED ENGRAVED PHENOLIC LABEL CORRESPONDING TO THE EQUIPMENT TAG ON THE ENGINEER'S DRAWINGS.

FIRESTOPPING: UL APPROVED MATERIALS AND METHODS SHALL PROTECT THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS, CEILINGS OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE RATED ASSEMBLY. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84, NFPA-225, UL-723 NOT EXCEEDING:

FLAME SPREAD 25
SMOKE DEVELOPED 50
FUEL DISTRIBUTED 50
ACCESSORIES SUCH AS ADHESIVE, MASTIC, CEMENTS AND TAPES SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE.

START-UP: CONTRACTOR SHALL STARTUP ALL EQUIPMENT AND FOLLOW THE MANUFACTURER'S START-UP PROCEDURES.

OPERATING AND MAINTENANCE DATA: SUBMIT THREE COPIES OF MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS AND SPARE PARTS LIST FOR EACH PIECE OF EQUIPMENT.

CONDENSATE DRAIN PIPING: CONDENSATE DRAIN PIPING SHALL BE TYPE-L COPPER. DRAINS SHALL BE PITCHED NOT LESS THAN 1 PERCENT. RUNS SHALL BE AS SHORT AS POSSIBLE WITHOUT ANY DIPS TO TRAP WATER AND INTERFERE WITH PROPER DRAINAGE. PROVIDE TRAPS AND CLEANOUTS AT DRAIN PAN CONNECTIONS. RUN CONDENSATE DRAIN PER PLANS. INSULATE CONDENSATE LINE INSIDE BUILDINGS WITH 1" ARMAFLEX (ASTM E-84).

REFRIGERANT PIPING: SHALL BE ACR TUBING, DRIED AND SEALED, HARD TEMPER COPPER WITH WROUGHT COPPER BRAZED JOINTS. ASTM-888. COORDINATE AND VERIFY PROPER REFRIGERANT PIPE SIZES AND CHARGES WITH EQUIPMENT MANUFACTURER PRIOR TO ANY INSTALLATION. INSULATE SUCTION LINE WITH 1" ARMAFLEX. WRAP INSULATION OUTSIDE BUILDING ABOVE GROUND WITH ARMACELL # ARMACHECK 350 SILVER TAPE (UV-RESISTANT).

DIMENSIONAL DATA: ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

SUPPLEMENTARY SUPPORTS: CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS, IN ORDER TO PROVIDE A "VIBRATION-FREE" RIGID INSTALLATION.

DUCTWORK — GENERAL: FABRICATE AND INSTALL ALL DUCTWORK AND DUCT ACCESSORIES IN ACCORDANCE WITH THE LATEST EDITION OF APPLICABLE SMACNA STANDARDS, THE LATEST NFPA STANDARDS, AND THIS SPECIFICATION. THE MOST STRINGENT OF THESE SHALL BE THE MINIMUM STANDARD. MINIMUM OF 2" PRESSURE CLASS RATING FOR ALL DUCTWORK.

ALL RIGID SUPPLY, RETURN, EXHAUST AND FRESH-AIR DUCTWORK SHALL BE GALVANIZED SHEET METAL STEEL OF LOCKFORMING GRADE CONFORMING TO ASTM A653 AND ASTM A924. DUCTS THAT ARE COVERED WITH INSULATION SHALL HAVE A G-60 ZINC COATING DESIGNATION.

DUCTWORK INSTALLATION: ALL INTERIOR DUCTWORK SHALL BE SEALED TO SMACNA CLASS (B) REQUIREMENTS WITH UL-181 MASTIC. PROVIDE DOUBLE THICKNESS TURNING VANES IN ALL NINETY (90) DEGREE SQUARE ELBOWS. CONTRACTOR SHALL FURNISH AND INSTALL ALL DUCT OFFSETS AS REQUIRED TO CLEAR INTERFERENCES WITH EXISTING BUILDING STRUCTURE, PIPES AND ELECTRICAL CONDUITS. FURNISH AND INSTALL ALL MISCELLANEOUS STEEL SUPPORTS REQUIRED FOR HANGING AND SUPPORTING DUCTWORK UNLESS OTHERWISE NOTED.

VOLUME DAMPERS: DAMPERS SHALL BE PROVIDED IN THE BRANCHES OF THE DUCT SYSTEMS WHERE SHOWN ON DRAWINGS AND AS REQUIRED TO PROPERLY REGULATE THE VOLUME OF AIR DELIVERED TO OR WITHDRAWN FROM THE OUTLETS.

FLEXIBLE DUCTWORK: FLEXIBLE DUCTWORK MAY BE USED FOR THE FINAL RUNOUTS TO SUPPLY AIR OUTLETS, AND SHALL BE SIZED TO MATCH AIR OUTLET NECK. FLEXIBLE DUCTS SHALL NOT EXCEED 8-FEET LENGTHS. NO FLEXIBLE DUCTS SHALL PENETRATE FIRE-RATED WALLS OR CEILINGS. FLEXIBLE DUCTS SHALL COMPLY WITH THE PROVISIONS OF UL-181 CLASS 1 AIR DUCT MATERIAL. DUCTS SHALL BE FACTORY MADE AND COMPOSED OF: AN INNER FIBERGLASS WOVEN LINER, ENCAPSULATED HELIX COIL, A FIBERGLASS INSULATING BLANKET AND OUTER VAPOR BARRIER OF FIBERGLAS REINFORCED METALIZED FILM LAMINATE. PROVIDE THERMAFLEX MK-C FLEXIBLE DUCT OR APPROVED EQUAL (MIN. OF R-6.0). CARE IS TO BE TAKEN THAT ALL RUNOUTS OF FLEXIBLE DUCTS ARE INSTALLED AS STRAIGHT AS PRACTICAL AND FASTENED SO AS TO ELIMINATE AIR LEAKAGE. THE INSTALLATION SHALL CONFORM TO THE TECHNIQUES SHOWN IN THE UL APPROVED AND FACTORY-SUPPLIED INSTRUCTIONS.

INSULATION: ASSURE ALL DUCTWORK IS SEALED PRIOR TO INSTALLING INSULATION. ALL METAL SUPPLY, RETURN, AND FRESH AIR (OUTSIDE AIR) DUCTWORK SHALL BE WRAPPED WITH 2" THICK FIBERGLASS BLANKET INSULATION WITH FSK (ASJ) FACING, MINIMUM INSTALLED R VALUE OF 6.0, AND FLAME SPREAD/SMOKE DEVELOPED RATINGS OF 25/50 BY ASTM E-84. INSTALL INSULATION ON DUCTWORK USING ADHESIVE AND/OR WELD PINS WITH WASHERS. SEAL ALL INSULATION JOINTS, SEAMS AND FASTENER PIN PENETRATIONS WITH VAPOR RETARDING PRESSURE SENSITIVE TAPE OR WITH GLASS FABRIC AND MASTIC. INSTALL TAPERED INSULATION TO THE TOP OF ALL EXTERIOR HORIZONTAL RECTANGULAR DUCTS WIDER THAN 24" BEFORE APPLYING THE FINISH INSULATION TO CAUSE A 1/2" PER FOOT SLOPE OF FINISH INSULATION TO SHED WATER.

BRANCH SUPPLY DUCT RUNOUTS: SHALL BE GALVANIZED ROUND (SNAPLOCK) SEAM LOCKED DUCTWORK WITH EXTERNAL FIBERGLASS WRAP INSULATION (R-6.0). NOTE: BRANCH DUCT RUNOUTS & FLEXIBLE DUCTS SHALL BE THE SAME SIZE DUCT AS THE DIFFUSER NECK CONNECTED TO, AS LISTED ON THE FLOOR PLAN.

GRILLES AND DIFFUSERS: ALL GRILLES AND DIFFUSERS SHALL BE INSTALLED WITH AN INSULATED BOOT OR BLANKET. PROVIDED A METHOD OF VOLUME CONTROL BY DEVICE ADJUSTABLE AT DIFFUSER FACE OR MANUAL VOLUME DAMPERS AT TAKEOFF BRANCHES. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLAN.

DUCT SMOKE DETECTORS: INSTALL SMOKE DETECTORS AS RECOMMENDED BY MANUFACTURER TO ACQUIRE PROPER READINGS. LOCATION OF DUCT MOUNTED SMOKE DETECTORS ARE FOR REFERENCE LOCATION ONLY. FINAL PLACEMENT SHALL MEET ALL REQUIREMENTS IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 12"x12" ACCESS DOOR FOR INSPECTION AND SERVICE. SMOKE DETECTORS SHALL BE FURNISHED & WIRED BY ELECTRICIAN AND INSTALLED BY HVAC CONTRACTOR. SMOKE DETECTORS SHALL BE WIRED TO SHUTOFF UNIT WITH THE DETECTION OF SMOKE.

CONTROLS: PROVIDE BMS CONTROL SYSTEM (SEE NOTES THIS SHEET). CONTROLS COMPLETE TO SUIT THE EQUIPMENT PROVIDED AND TO ACCOMPLISH THE SEQUENCE OF OPERATION AS REQUIRED BY PLANS AND SYSTEMS. LOCATE SENSORS 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. CONTROLS SHALL BE PROGRAMMABLE TO INCLUDE ALL ITEMS REQUIRED BY FBC-ENERGY CODE SIXTH EDITION AND SHALL HAVE LOCKOUT FUNCTION WITH PASSWORD.

TESTING AND BALANCING: THE CONTRACTOR SHALL ENSURE THAT ALL DEVICES AND SYSTEMS ARE COMPLETE, TESTED AND BALANCED, AND READY FOR OPERATION WHEN THE FACILITY IS HANDED OVER THE OWNER. THE AIR CONDITIONING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH CURRENT AABC OR NEBB OR NBC PROCEDURES. A CERTIFIED, WRITTEN REPORT SHALL BE SUBMITTED TO MECHANICAL ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL RECTIFY DISCREPANCIES BETWEEN THE ACTUAL INSTALLATION AND CONTRACT DOCUMENTS WHEN IN THE OPINION OF THE T&B AGENCY OR THE ENGINEER, THAT THE DISCREPANCIES WILL AFFECT SYSTEM BALANCE AND PERFORMANCE.

SUBMITTALS REQUIRED: SUBMIT SHOP DRAWINGS FOR ALL MATERIALS, EQUIPMENT, AND SYSTEMS REQUIRED BY THESE DOCUMENTS (SEE ARCH. PLANS/SPECS FOR SPECIFIC FORMATTING), INCLUDING:

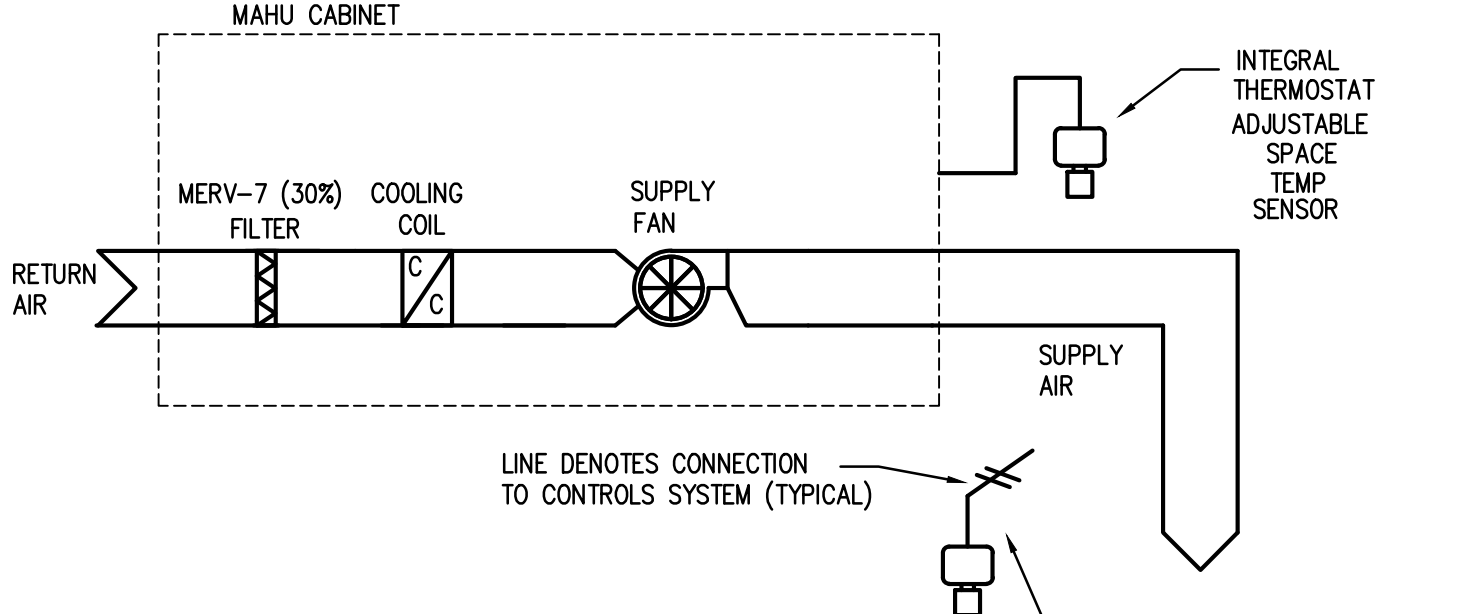
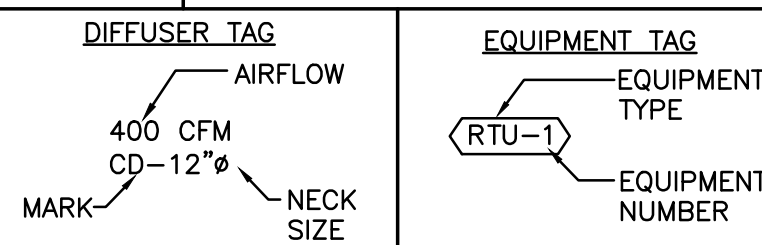
- SPLIT SYSTEM
- TEST/BALANCE REPORT
- EXHAUST FANS
- DIFFUSERS AND GRILLES
- DUCTWORK, INSULATION AND ACCESSORIES (CONNECTIONS, MASTICS, ETC.)
- THERMOSTATS & CONTROLS

SUBSTITUTIONS: CONTRACTOR SHALL PAY FOR ANY AND ALL ADDED COSTS ASSOCIATED WITH ANY SUBSTITUTION, INCLUDING SUBSTITUTIONS THAT REQUIRE CHANGES TO THE OTHER BUILDING COMPONENTS, SUCH AS ELECTRICAL, STRUCTURAL REINFORCING, CEILINGS, WALLS, ROOFS, ETC. THIS WILL INCLUDE ANY ENGINEERING/ARCHITECTURAL RE-DESIGN COSTS AS A RESULT OF SAID SUBSTITUTION. THESE COSTS SHALL NOT BE BORNE BY THE OWNER, ARCHITECT, NOR ENGINEER, REGARDLESS OF ACCEPTABILITY OF SUBSTITUTION. ENGINEER RESERVES THE RIGHT TO ACCEPT OR DENY ANY SUBSTITUTION THAT HE DOES NOT DEEM TO BE EQUIVALENT, AND CONTRACTOR SHALL PROVIDE SPECIFIED OR EQUIVALENT MATERIALS/EQUIPMENT AT NO ADDITION COST TO OWNER, SHOULD A SUBSTITUTION BE DENIED.

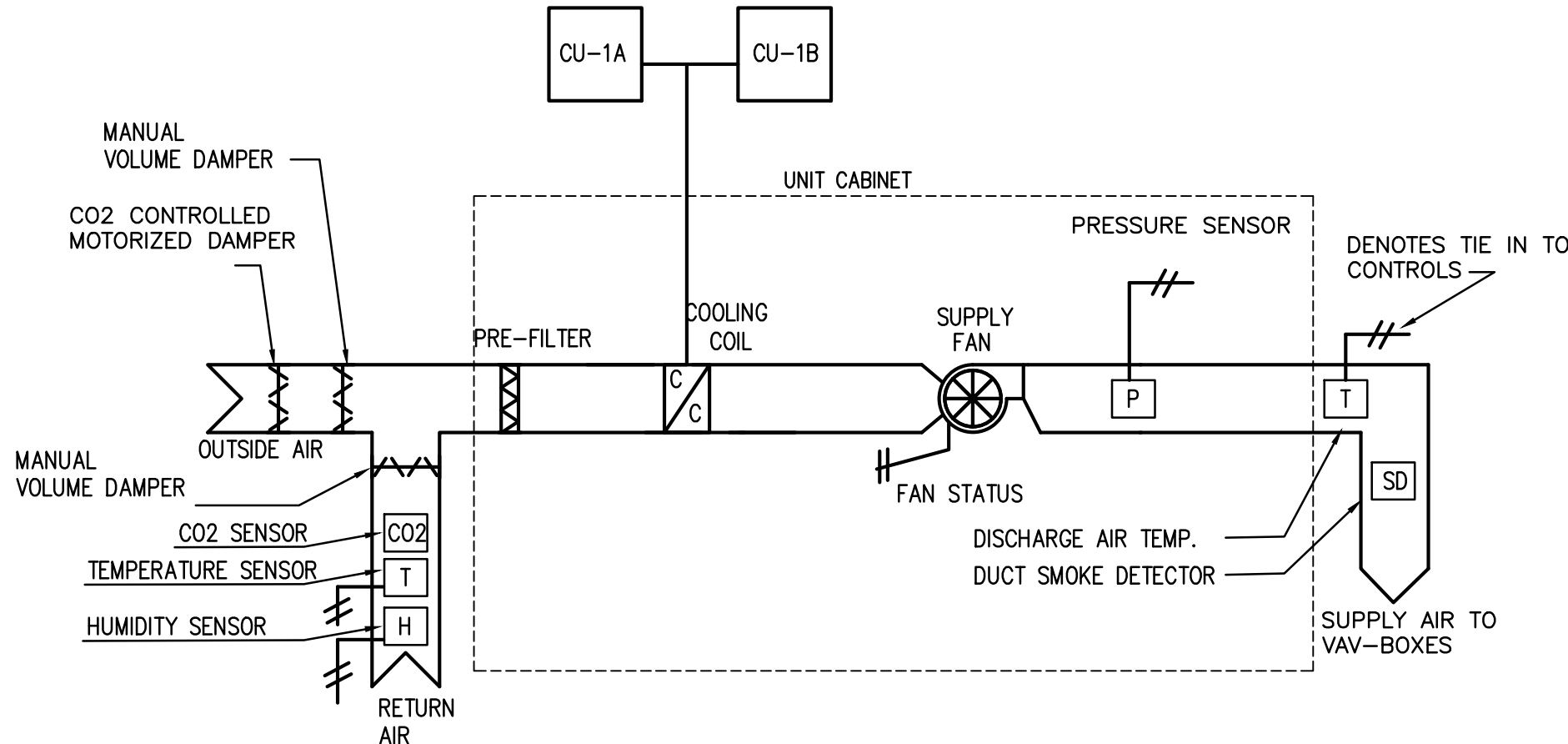
GUARANTEE: THE ONE-YEAR GUARANTEE PERIOD SHALL NOT START UNTIL THE PROJECT IS FULLY COMPLETED AND THE CONTRACTOR HAS RECEIVED THE FINAL PAYMENT AND CERTIFICATION OF OCCUPANCY. ALL EQUIPMENT AND DUCTWORK SHALL BE FULLY GUANTEED, PARTS AND LABOR, FOR ONE YEAR FROM THE DATE OF THE CERTIFICATE OF COMPLETION. REPAIRS MADE DURING THIS PERIOD MUST BE FULLY GUARANTEED FOR AN ADDITIONAL ONE YEAR PERIOD FROM THE DATE OF REPAIRS. IN ADDITION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDING, AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIAL INSTALLED. A 5-YEAR WARRANTY IS REQUIRED FOR COMPRESSORS.

HVAC LEGEND

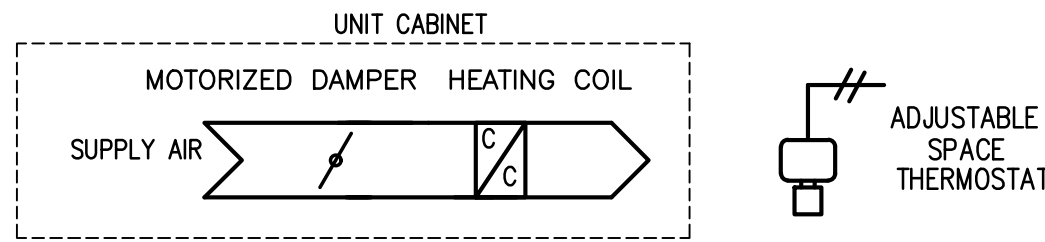
- SUPPLY AIR DIFFUSER OR GRILLE
- RETURN/EXH. AIR REGISTER OR GRILLE
- NEW DUCTWORK, WITH SIZE LISTED
- FLEXIBLE DUCT
- DUCT SMOKE DETECTOR
- FIRE DAMPER
- SMOKE/FIRE DAMPER
- CONDENSATE DRAIN
- REFRIGERANT LINE SET
- THERMOSTAT BASE
- HUMIDITY SENSOR
- TEMPERATURE SENSOR
- CARBON DIOXIDE SENSOR
- PRESSURE SENSOR
- AIRFLOW DIRECTION
- 1" DOOR UNDERCUT
- ROUND, DIAMETER
- ABOVE FINISHED FLOOR
- CUBIC FEET PER MINUTE
- TYPICAL - ITEM OR METHOD
- BAROMETRIC DAMPER
- GRAVITY BACK-DRAFT DAMPER
- MANUAL VOLUME DAMPER (W/HANDLE)
- MOTORIZED DAMPER
- DOUBLE THICK VANES
- SUPPLY DUCT TAKE-OFF WITH VD
- SUPPLY DUCT TAKE-OFF WITH SCOOP
- SIDE DIFFUSER WITH VD
- NEW
- EXISTING
- SWITCH
- CONNECT NEW TO EXISTING
- WAVE GUIDE
- CONDENSATE LINE ON ROOF SUPPORTS



MAHU-# CONTROL SCHEMATIC
NO SCALE



AHU VARIABLE VOLUME CONTROL SCHEMATIC
NO SCALE



VARIABLE AIR VOLUME BOX CONTROL SCHEMATIC
NO SCALE

BUILDING CONTROL SYSTEM (BMS)

Controls Guide Specification: Hillsborough County Gov – Sheriff Office Training Facility

1.1 ENTERPRISE SYSTEM - GENERAL DESCRIPTION

- A. Trane controls shall be the base-bid for the controls system. The controls system shall be tied into the county wide Trane ensemble server, alternate manufacturers must be preapproved ten days prior to the bid.
- B. The Enterprise operator interface is a web-based, systems integration solution that provides facility managers an online, enterprise-wide view and control over of all their buildings and systems, from any device with a web browser on the network. (PC, laptop, tablet, smart phone).
- C. The system shall collect and display data from other systems via BACnet™ IP, providing users the critical information needed to make enterprise-wide decisions for optimized performance
- D. The Enterprise operator web interface shall be accessible via a web browser without requiring any “plug-ins” (i.e. JAVA Runtime Environment (JRE), Adobe Flash).
- E. The Enterprise operator interface software shall be provided as a cloud-based service, the manufacture shall include a two-year cloud base service as part of this contract.

1.2 ENTERPRISE SYSTEM - APPROVED MANUFACTURERS

- A. Approved Manufacturers
 - 1. Trane Tracer® – Basis of Design

SEQUENCE OF OPERATION (SPLIT SYSTEM)

- A. FAN: THE FAN IS TO BE RUN CONTINUOUSLY DURING OCCUPIED HOURS, AND PUT IN UN-OCCUPIED SETBACK MODE AS SET IN BMS TIME SCHEDULE AND SUBJECT TO FIRE/SMOKE ALARM SHUTDOWN & MANUAL CONTROL.
- B. AC DRIVE SHALL PROVIDE A SOFT START FOR THE SYSEM AND MAINTAIN CONSTANT VOLUME AIR FLOW TO COMPENSATE FOR FILTER LOADING.
- C. THE FOUR COMPRESSORS OF THE TWO CONDENSERS WILL ENGAGE SEPERATLY AND STAGGARED UNTIL SET TEMPERATURE IS REACHED. (74-F, ADJUSTABLE, FIELD VERIFY)
- D. AIRFLOW PRESSURE: FAN SHALL MAINTAIN STATIC PRESSURE AS RELATED TO TRUNK LINE DUCT PRESSURE SENSOR, AND SHALL REDUCE OR INCREASE SPEED TO MAINTAIN PRESSURE, DOWN TO 30%
- E. HUMIDITY CONTROL: WHENEVER HUMIDITY RISES ABOVE 60% RH, THE UNIT SHALL ENTER "HUMIDITY OVERRIDE OPERATION" WHERE COOLING COIL SHALL OPEN FULLY, TO MAINTAIN SPACE TEMPERATURE SETPOINT. SYSTEM SHALL REMAIN IN OVERRIDE MODE UNTIL HUMIDITY DROPS BELOW 50%RH (ADJUSTABLE).

SEQUENCE OF OPERATION (VAV BOXES)

- A. COOLING: UPON A CALL FOR COOLING, AS DETERMINED BY SENSOR PROGRAM, DAMPER SHALL OPEN IN INCREMENTAL STAGES UNTIL SENSOR IS SATISFIED.. DAMPER SHALL OPEN TO MAXIMUM POSITION IF SENSOR CALLS FOR FULL COOLING (SETPOINT 74-F, ADJUSTABLE, FIELD VERIFY).
- B. HEATING: UPON A CALL FOR HEATING, AS DETERMINED BY SENSOR PROGRAM, DAMPER SHALL CLOSE TO A MINIMUM AND FIRST STAGE HEAT INITIATED. HEAT STRIP SHALL FURTHER INITIATE STAGE TWO IF SENSOR CALLS FOR FURTHER HEATING (SETPOINT 70-F, ADJUSTABLE, FIELD VERIFY).

SEQUENCE OF OPERATION (EXHAUST FANS)

- A. FAN: THE FAN IS TO BE RUN CONTINUOUSLY WHEN ROOM IS OCCUPIED, AS CONTROLLED BY INTERLOCK WITH OCCUPANCY SENSOR IN ROOM LIGHTING.

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HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
Practical Training Site
Office & Classroom Renovation
in Existing Pavilion

MATTHEW D. LEWIS
LICENSE
No 56189
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

JOB NO : 21021
DRAWN BY : KP
ISSUE DATE : 05.26.21
SHEET NAME:
MECHANICAL
SPECIFICATIONS
SHEET NUMBER
M-001

Dwg Name: MECHANICAL.dwg [M-002] - Printed on May 27, 2021 - 6:13PM, by itm

VAV-BOX SCHEDULE																			
Unit Tags	Quantity	Unit model	Primary inlet	Design cooling airflow cfm	Min cooling airflow cfm	Cooling inlet velocity ft/min	APD @ cooling airflow in H2O	Valve heating airflow cfm	Primary EDB F	Unit LAT F	Electric heater voltage	Electric heater kilowatt	Electric heater stage	Full load amps A	Min circuit ampacity A	Max fuse size A	Discharge valve - NC	Radiated valve - NC	Notes
VAV-1	1	VCEF (Electric Heating)	5" (127mm)	200	60	1467	0.01	100	55	86.47	208/3	1	1	2.78	3.47	15	19	-1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
VAV-2	1	VCEF (Electric Heating)	5" (127mm)	200	60	1467	0.01	100	55	86.47	208/3	1	1	2.78	3.47	15	19	-1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
VAV-3	1	VCEF (Electric Heating)	10" (254mm)	900	300	1650	0.02	450	55	93.47	208/3	5.5	1	15.27	19.08	20	20	18	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
VAV-4	1	VCEF (Electric Heating)	12" (305mm)	1410	450	1795	0.04	705	55	75.09	208/3	4.5	1	12.49	15.61	20	21	20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
VAV-5	1	VCEF (Electric Heating)	12" (305mm)	1410	450	1795	0.04	705	55	75.09	208/3	4.5	1	12.49	15.61	20	21	20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
VAV-6	1	VCEF (Electric Heating)	10" (254mm)	800	250	1467	0.02	400	55	74.67	208/3	2.5	1	6.94	8.67	15	18	17	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
VAV-7	1	VCEF (Electric Heating)	8" (203mm)	550	175	1576	0.04	300	55	96.97	208/3	4	1	11.1	13.88	15	20	18	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

- NOTES:
- ① Units to be Trane model, size, and configuration as indicated in schedule and on drawings

② Provide factory-mounted, control contractor's pre-programmed, pressure-independent, BACnet DDC controller with airflow measurement

③ Provide with zone temperature sensor

④ Provide with factory-wired discharge air temperature sensor

⑤ Provide unit-mounted control power transformer, disconnect, and power fuse and contactors.

⑥ Provide single wall construction with 1" foil faced insulation, air valve and actuator.

⑦ All VAV boxes to be located in servicable areas after construction is completed.

⑧ Provide 1.5 times the diameter of straight duct at inlets of VAV- units.

⑨ Allow 48" of straight duct downstream of unit before first runout.

⑩ Coordinate control side of VAV unit with mechanical duct shop drawings prior to ordering VAVs to allow for required clearances.

⑪ Disconnect by electrician.

AIR HANDLER UNIT SCHEDULE																			
GENERAL						FAN MOTOR		COOLING		COOLING CAP		HEATING CAP		ELECTRIC HEAT		SINGLE POINT POWER			
MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	ESP IN. WG.	POWER V/ø	TONS (NOM.)	HP	ENT AIR		TOTAL kBTu/h	SENS. kBTu/h	TOTAL kBTu/h	kW (ø RATED VOLTS)	MCA	MOCP	WT LBS	FILTER EFFIC.	MFG.	MODEL	NOTES
							DB	WB											
AHU-1	5,470	450 / 750	3.3	208/3ø	15	4.4	77.7	65.3	222.9	154.9	N/A	N/A	20.5	35	926	2"/30%	TRANE	UCCAM12	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- NOTE:
- ① PROVIDE WITH PROGRAMMABLE CONTROLS.

② PROVIDE SECONDARY DRAIN PAN UNDER UNIT WITH FLOAT SWITCH WIRED TO SHUT DOWN FAN MOTOR.

③ DISCONNECT TO BE BY ELECTRICIAN.

④ PROVIDE WITH FULLY INSULATED DOUBLE WALL (R-13 FOAM) GALVANIZED STEEL CABINET, WITH PREPAINTED FINISH.

⑤ PROVIDE WITH SUB BASE STAND.

⑥ SUPPLY DUCT SMOKE DETECTOR TO BE INSTALLED BY HVAC CONTRACTOR AND FURNISHED AND WIRED BY FIRE ALARM CONTRACTOR.

⑦ PROVIDE WITH PLENUM FAN WITH DIRECT DRIVE MOTOR AND VFD CONTROLLER.

⑧ PROVIDE WITH AHU MANUFACTURER'S RETURN MIXING BOX AND TOP DAMPER ONLY.

⑨ PROVIDE TRANE BMS CONTROL SYSTEM TO INTEGRATE ALL SYSTEMS.

CONDENSING UNIT SCHEDULE																	
GENERAL			NOMINAL CAPACITY COOLING			COMPRESSOR			CONDENSER FAN			SINGLE PT. POWER					
MARK	TOTAL kBTu/h	SENSIBLE kBTu/h	POWER V/ø	QTY	RLA EA.	LRA EA.	QTY	FLA EA.	MCA (A)	MOCP (A)	MFG.	MODEL #	REFRIGERANT	EER	AMBIENT(NOM.)	AMBIENT	WT(LBS)
CU-1A	120	94	208/3ø	2	16/16	110/110	1	4.8	41	50	TRANE	UCCA	R-410A	11.3	95°F	92°F/79°F	417
CU-1B	120	94	208/3ø	2	16/16	110/110	1	4.8	41	50	TRANE	UCCA	R-410A	11.3	95°F	92°F/79°F	417

- NOTE:
- ① PROVIDE REFRIGERANT LINE SETS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS & SIZING GUIDELINES, FOR MANIFOLDED SETUP (TXV ON EACH CIRCUIT)

② PROVIDE WITH TXV, LOW AMBIENT KIT, SIGHT GLASS, FILTER DRIER, HAIL GUARD, HEAD PRESSURE CONTROL & 5-MINUTE ANTI-CYCLE TIMER.

③ DISCONNECT TO BE PROVIDED BY ELECTRICIAN.

④ SECURE UNIT TO STRUCTURE (SEE DETAIL.)

⑤ PROVIDE LOCKING CAPS FOR REFRIGERANT FILL POINTS.

⑥ PROVIDE WITH MANUFACTURER'S UPGRADE CONDENSER COIL COATING.

FAN SCHEDULE												
GENERAL					CONSTRUCTION							
MARK	CFM	SONES	ESP (IN-WG)	ELEC.	MOTOR	DRIVE	TYPE FAN	MANUF.	INTERLOCK WITH	MODEL	WEIGHT (lbs)	NOTES
EF-1	280	2.9	0.375	120/1/60	181 WATTS	DIRECT	CEILING MOUNT	COOK	LIGHTS	GC-620	35	① ② ③ ④

- NOTES:
- ① PROVIDE FAN WITH ALUMINUM CEILING GRILLE, FAN SPEED CONTROLLER, GALV.METAL HOUSING, BACKDRAFT DAMPER, AND GEMINI ISOLATOR KIT.

② PROVIDE WITH WALL LOUVER TO SERVE ALL FANS (SEE DETAIL).

③ PROVIDE WITH INSULATED 18" ROOF CURB.

④ DISCONNECT BY ELECTRICIAN, INTERLOCK WITH LIGHTS IN RESPECTIVE ROOM.

AIR DEVICE SCHEDULE									
GENERAL				CONSTRUCTION					
MARK	TYPE	FUNCTION	FRAME SIZE	PATTERN	MATERIAL	FINISH	MFG.	MODEL	NOTES
CD	CEILING DIFFUSER	SUPPLY	24x24	LOUVERED FACE	ALUMINUM	WHITE	PRICE	AMD	①
RGC	RETURN GRILLE	RETURN	SEE PLANS	BLADES	ALUMINUM	WHITE	PRICE	630DAL	①
LVR	LOUVER	FRESH AIR/EXHAUST	36X36X5.5	HORIZONTAL BLADES	ALUMINIUM	MILL	GREENHECK	EHV-550D	②

- NOTES:
- ① PROVIDE WITH OPPOSED BLADE DAMPER.

② FLORIDA PRODUCT APPROVED AND ACMA 540/550 CERTIFIED WITH INSECTSCREEN.

BUILDING CONTROL SYSTEM (BMS)

CONTRACTOR SHALL PROVIDE A COMPLETE DDC SYSTEM TO INCLUDE ALL REQUIRED COMPONENTS AND SOFTWARE TO ACCOMPLISH ALL SEQUENCES AND FUNCTIONS LISTED. THIS SYSTEM SHALL INCLUDE A WALL MOUNTED LED INTERFACE PANEL (LOCATED IN I.T.) TO CONNECT ALL UNITS, DEVICES, REMOTE TEMPERATURE SENSORS, REMOTE HUMIDITY SENSORS, AND ALL OTHER ASSOCIATED COMPONENTS AND SOFTWARE REQUIRED TO MAKE A COMPLETE SYSTEM. THIS SYSTEM IS FOR ON-SITE & OFF-SITE CONTROL CONNECTION VIA INTERNET, BY LANDLORD TO MONITOR AND SUPERFICIALLY DIAGNOSE UNIT OPERATION. 120-VOLT POWER & INTERNET CONNECTION BY ELECTRICIAN INSIDE I.T. ROOM. FULL SHOP DRAWING SUBMITTAL REQUIRED FOR CONTROL SYSTEM FOR OWNER AND ENGINEER REVIEW.

UNITS TO BE PROGRAMMED BY CONTROLS CONTRACTOR PER OWNER STANDARD

TRAINING REQUIRED: ALL CONTROLS ARE TO BE PROGRAMMED WITH LANDLORD AND TENANT REPRESENTATIVE ON-SITE TO GIVE APPROVAL ON SETPOINTS. CONTRACTOR SHALL INCLUDE 2 SEPARATE SITE VISITS, EACH 2-HOUR TRAINING.

VENTILATION AIR SCHEDULE									
SPACE	FUNCTION AREA (SQFT)	REQUIRED OUTSIDE AIR ①	REQUIRED NUMBER PEOPLE (Pz) ①	ZONE AIR DISTRIB. EFFECTIVE. ①	SYSTEM VENT.(Ev) EFFICIENCY ①	REQUIRED OUTSIDE AIR (Vbz) ① (CFM)	REQUIRED EXHAUST AIR (CFM) ①	PROVIDED EXHAUST AIR (CFM) ①	
BREAKROOM	250	7.5 $\frac{CFM}{PERSON}$ + 0.18 $\frac{CFM}{SQFT}$	17.5 ($\frac{20-PERSONS}{1,000-SQFT}$)	1.0	0.9	127	--	--	
OFFICES	226	5 $\frac{CFM}{PERSON}$ + 0.06 $\frac{CFM}{SQFT}$	1.1 ($\frac{5-PERSONS}{1,000-SQFT}$)	1.0	1.0	19	--	--	
CLASSROOMS	1200	10 $\frac{CFM}{PERSON}$ + 0.12 $\frac{CFM}{SQFT}$	42 ($\frac{35-PERSONS}{1,000-SQFT}$)	1.0	0.9	950	--	--	
RESTROOMS	0	70 $\frac{CFM}{TOILET/URINAL}$	8-TOILET/URINAL	--	--	--	560	560	
HALLWAYS	890	0.06 $\frac{CFM}{SQFT}$	--	1.0	1.0	53	--	--	
SYSTEM POPULATION, Ps:		43	TOTAL ZONE POPULATION, Σ Pz	60.6	REQU. OUTSIDE AIR INTAKE,(Vot) (=Vou / MAX Ev) (CFM)			723	
OUTSIDE AIR INTAKE UNCORRECTED,(Vou) (=Dx Σ RpPz+ Σ RaAz)				651	PROVIDED OUTSIDE AIR INTAKE (CFM)			750	
OCCUPANT DIVERSITY, D (=Ps/ Σ Pz)				0.71	TOTAL PRESSURE = PROVIDED INT.- PROVIDED EXH. (CFM)			+190	
NOTES: ① REQUIREMENTS IN ACCORDANCE WITH TABLE 403.3.1.1, IN THE 2020 FLORIDA BUILDING CODE – MECHANICAL.									

MOTORIZED CO2 CONTROLLED DAMPER								
GENERAL					CONSTRUCTION			
MARK	VOLT/WATT	TYPE	FUNCTION	DIMENSION	SENSOR TYPE	MATERIAL	MFG.	NOTES
MOD	24V/1.5	MODULATING	CARBON DIOXIDE	20X10	DUCT MOUNT	GALV.STEEL	YOUNG REGULATOR	DA-CO2-20X10 ① ②

- NOTE:
- ① PROVIDE WITH 120/24 TRANSFORMER, CO2 SENSOR, AND ALL COMPONENTS REQUIRED.

② UNIT TO BE CALIBRATED BY MGFR TO 450 CFM AT 1.0 IN.WG. VELOCITY PRESSURE IN CLOSED POSITION AT 800PPM CARBONDIOXIDE OR LESS.

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Practical Training Site

Office & Classroom Renovation

in Existing Pavilion

MATTHEW D. LEWIS

LICENSE

No 56189

STATE OF FLORIDA

PROFESSIONAL ENGINEER

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

JOB NO : 21021

DRAWN BY : KP

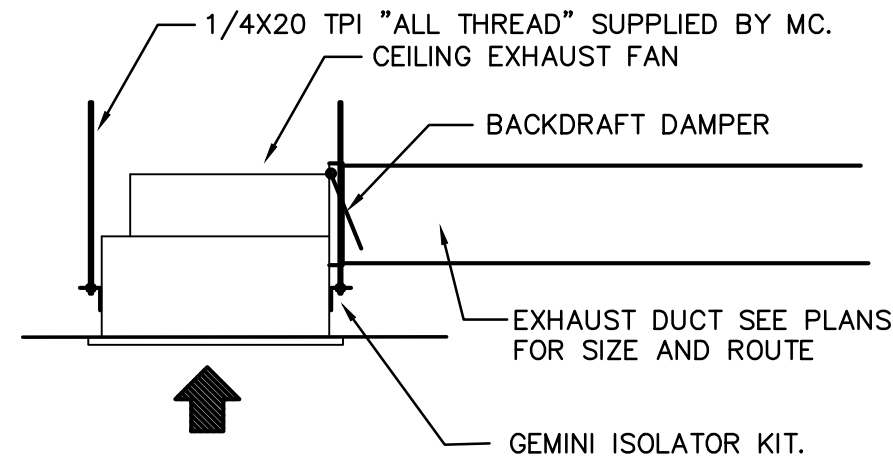
ISSUE DATE : 05.26.21

SHEET NAME:

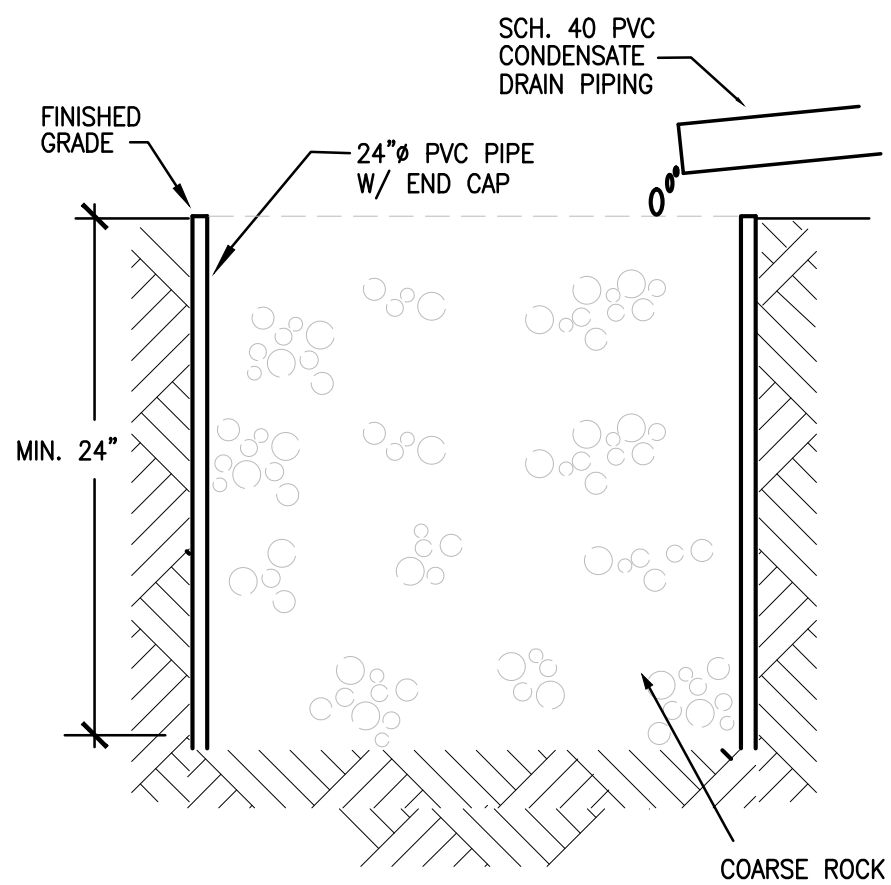
MECHANICAL SCHEDULES

SHEET NUMBER

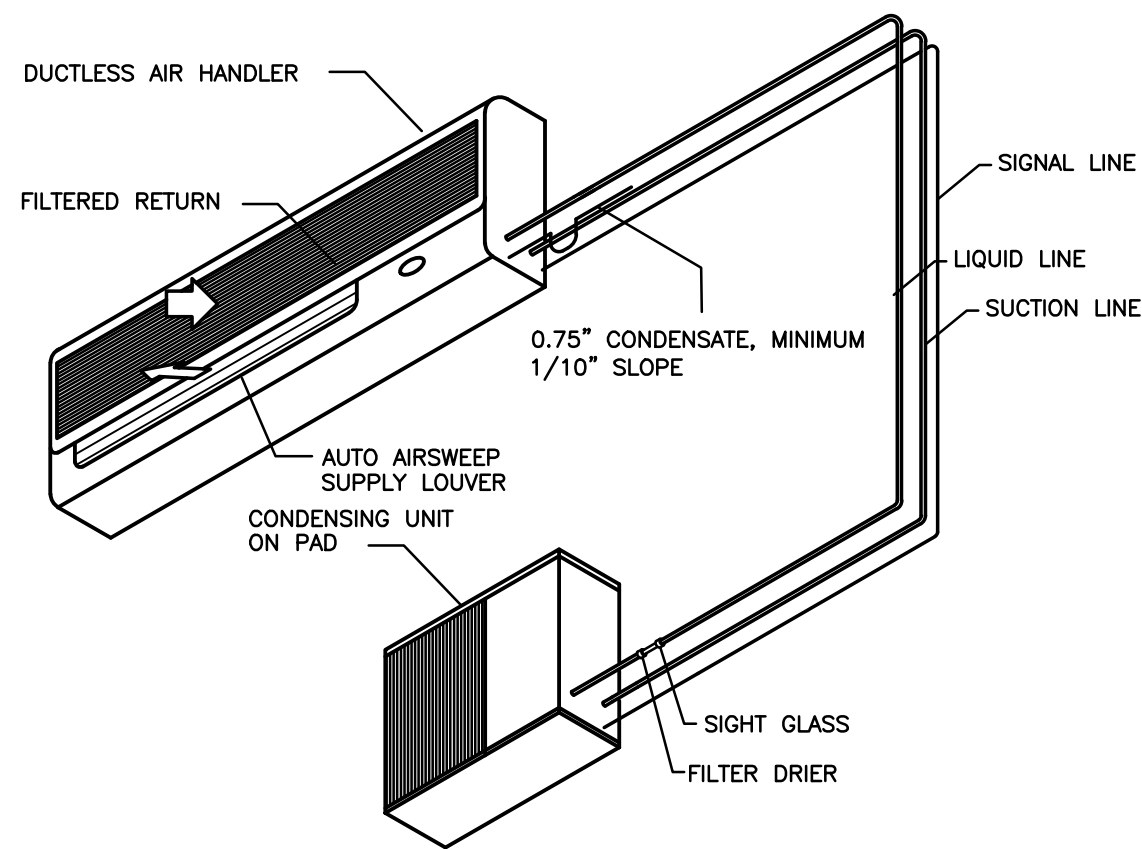
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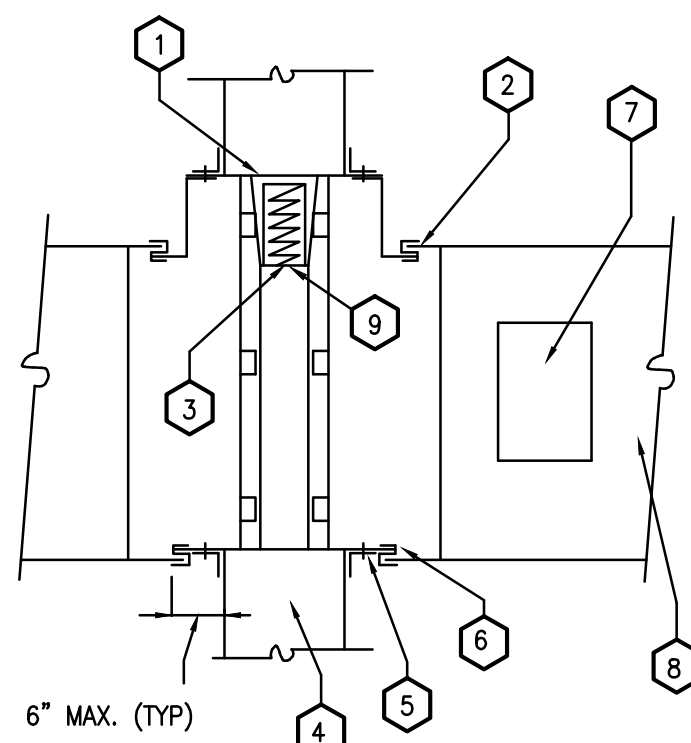
CEILING FAN DETAIL
SCALE: NONE



DRYWELL DETAIL
NO SCALE



DUCTLESS SPLIT SYSTEM DETAIL
SCALE: NONE

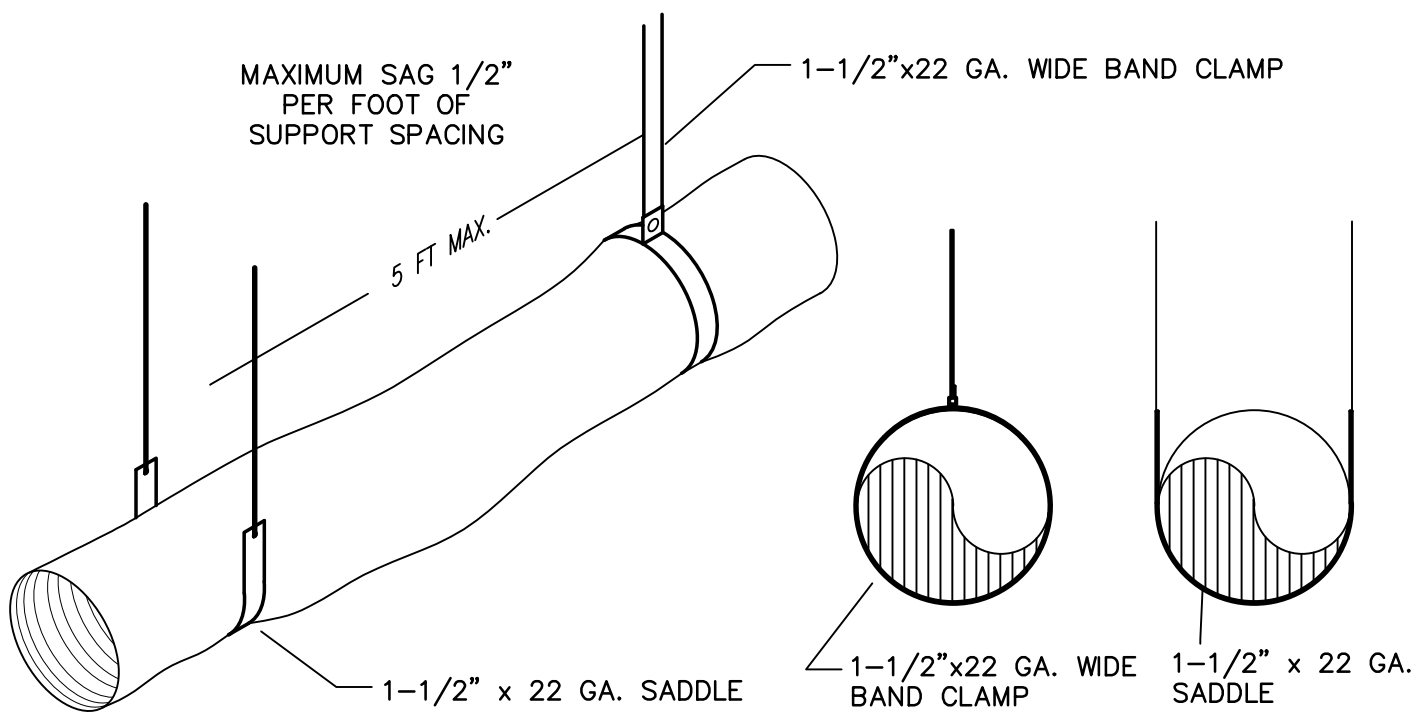


- 1/8" PER FOOT MIN. CLEARANCE HEIGHT AND WIDTH U.O.N. IN THE LISTING OF THE ASSEMBLY.
- EXPAND DUCT SO THAT FIRE DAMPER DOES NOT REDUCE AIR FLOW.
- TYPE "B" FIRE DAMPER SHUTTER WITH UL-RATING & STAMP RATED WALL OR FLOOR ASSEMBLY
- MOUNTING ANGLE, OVERLAP FLOOR OPENING BY 1" MINIMUM.
- FASTEN DUCT TO SLEEVE WITH BREAKAWAY CONNECTION.
- MIN. 12"x12" FIRE DAMPER ACCESS DOOR WITH CAM LATCH.
- DUCTWORK - SEE PROJECT DWGS. FOR SIZE & CONTINUATION.
- PROVIDE SPRING ACTUATOR AND MOUNTING FOR HORIZONTAL FLOOR MOUNT

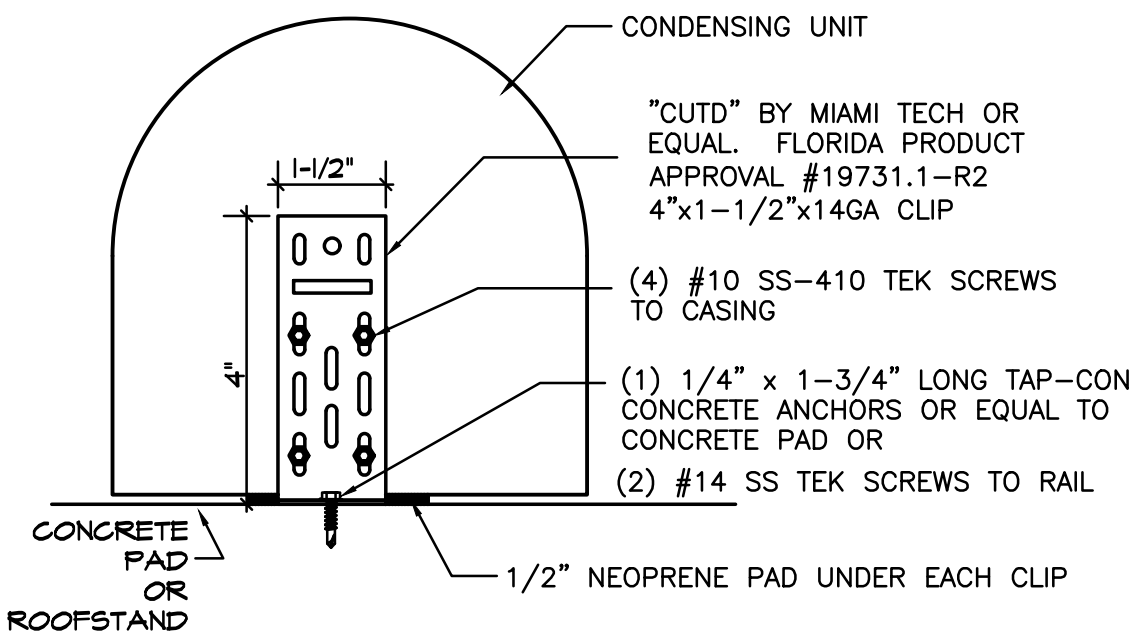
NOTE: INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, UL555 & UL555S DAMPER AND RESPECTIVE ACTUATORS SHALL BE U.L. TESTED AND LABELED AS AN ASSEMBLY.

UL-LISTED FIRE DAMPER INSTALLATION DETAIL
SCALE: NONE

INSTALLATION DETAIL BASED ON RUSKIN #IBD-2 IN 1 AND 2 HR RATED ASSEMBLIES

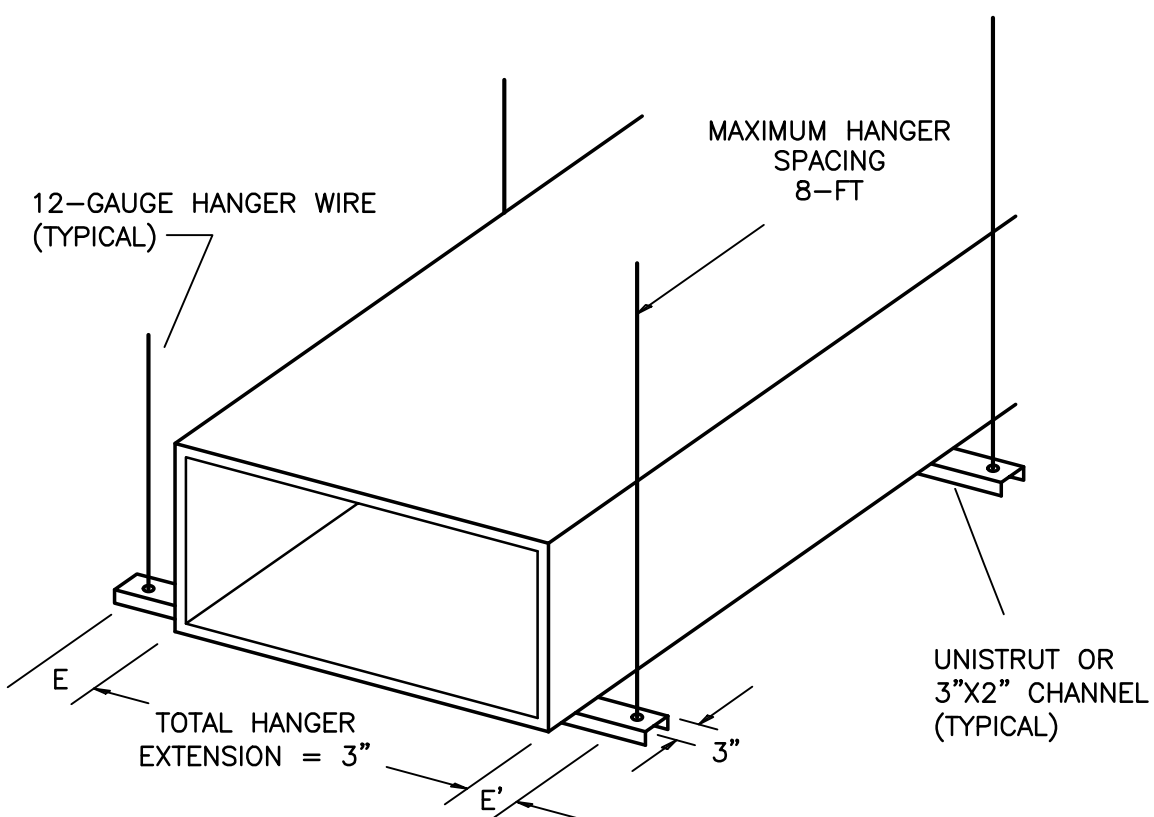


HANGER AND SUPPORT FOR ROUND AND FLEXIBLE DUCTS
NO SCALE

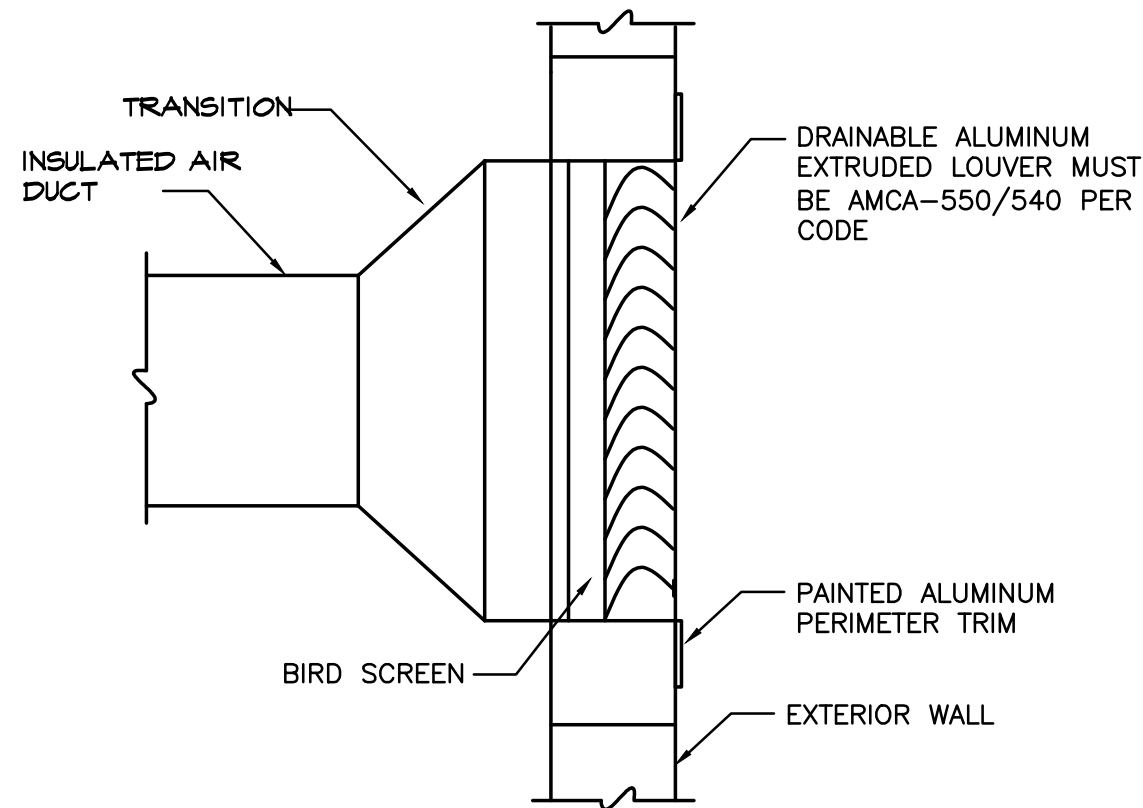


CONDENSING UNIT TIE-DOWN DETAIL
SCALE: NONE

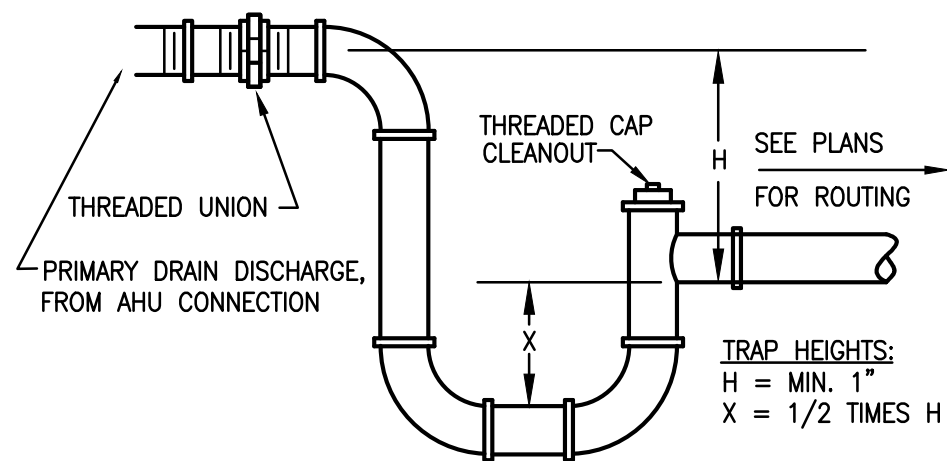
PROVIDE (1) TIE-DOWN CLIP PER CORNER ON EACH SIDE OF UNIT (2 PER SIDE, AND 8 PER UNIT)



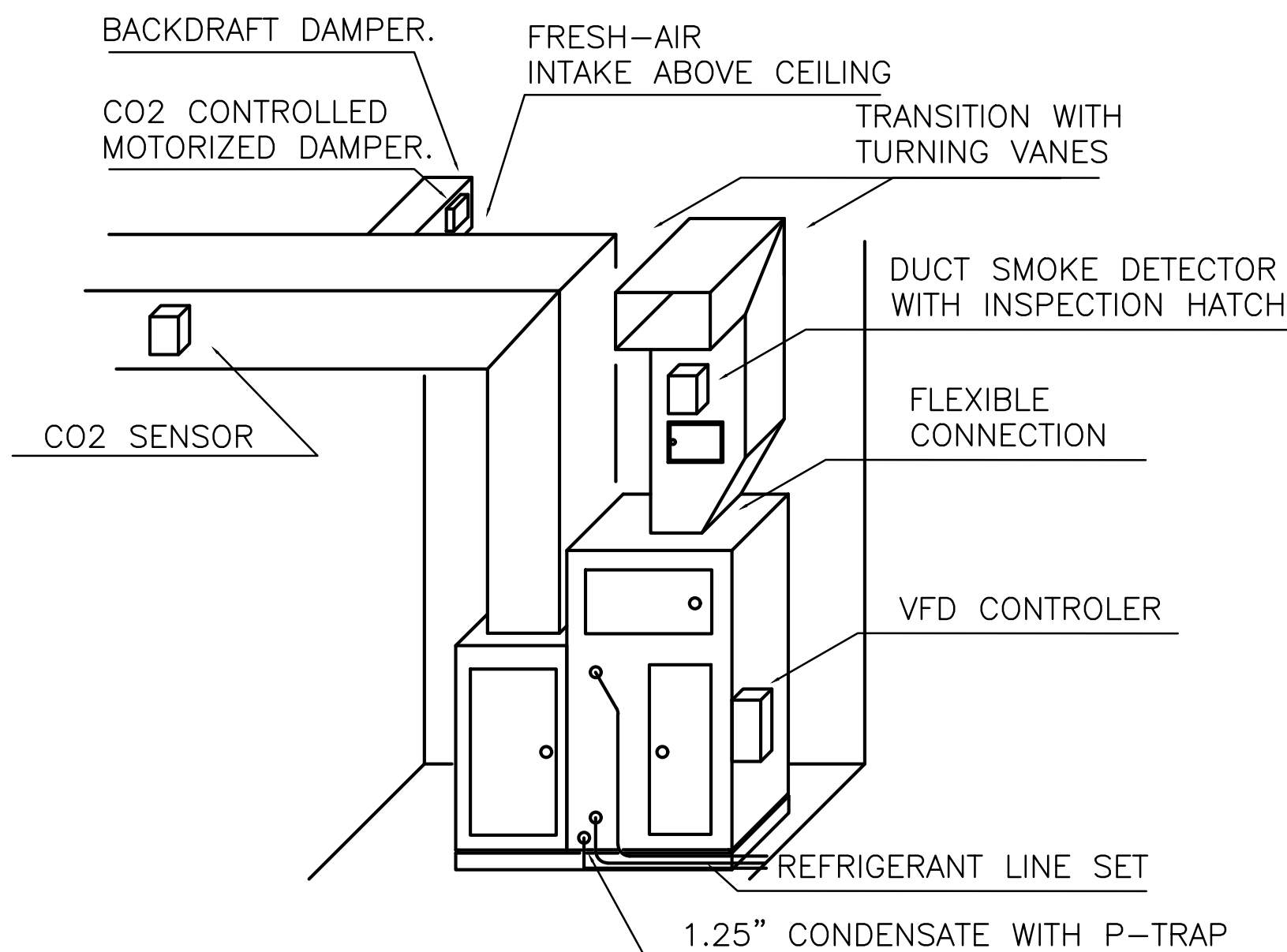
HANGER AND SUPPORT FOR RECTANGULAR DUCTS
NO SCALE



INTAKE/EXHAUST LOUVER DETAIL
SCALE: NONE



CONDENSATE DRAIN P-TRAP DETAIL
SCALE: NONE
(FOR DRAW-THRU UNIT)



AIR HANDLER SCHEMATIC (AHU-1)
NO SCALE

- 1 SUPPLY DUCT
- 2 CEILING DIFFUSER (COORDINATE TYPE WITH PLANS)
- 3 1-1/2" HANGER STRAPS; MAX. 10' SPACING
- 4 ROUND SNAPLOCK DUCT WITH WRAP INSULATION
- 5 TAKE-OFF OR SPIN-IN FITTING W/ VOLUME DAMPER. (DON'T USE VOLUME DAMPER ABOVE GYP CEILINGS)
- 6 PROVIDE PLASTIC ELBOW STRAIGHTENER TO ELIMINATE KINKS AT ELBOWS FLEXIBLE DUCT - PROVIDE FLEXFLOW, OR EQUAL.
- 7 METAL COLLAR WITH BAND CLAMP, SCREWED (3) PLACES AND TAPED TYPICAL BOTH ENDS OF FLEX DUCT.
- 8 INSULATED FLEXIBLE DUCT, MAXIMUM 6' LENGTH. INSTALL FLEX-DUCT AS STRAIGHT AS POSSIBLE. NO BEND OVER 90°, NO CRUSHING OF FLEX-DUCT.
- 9 2" WRAP INSULATION OVER BACK OF DIFFUSER

SUPPLY DUCT BRANCH RUN-OUT TO DIFFUSERS DETAIL
SCALE: NONE

DUCTLESS SPLIT SYSTEM UNIT COOLING ONLY (INVERTER DRIVEN) SCHEDULE																							
GENERAL	CAPACITY COOLING (BTU/H)			ELECTRIC SERVICE	CU (OUTDOOR UNIT)						AHU (INDOOR UNIT)				SYSTEM			WGT (LBS)					
					COMPRESSOR		COND. FAN		POWER		CFM	MCA	MOCP	FILTER									
MARK	TOTAL	SENSIBLE	TONS		#	RLA	LRA	#	FLA	MCA	MOCP	CFM	MCA	MOCP	FILTER	MFG.	INDOOR MOD#	OUTDOOR MOD#	CU	AHU	AMBIENT	SEER	NOTES
MAHU-1 MCU-1	12,000	8,200	1.0	208/1Ø	1	7.0	12.0	1	0.5	11.0	15	320	1.0	15	MERV-7	MITSUBISHI	PKA-A12HA7	PUY-A12NKA7	92	33	95-F	20.8	①②③④⑤

- NOTES:
- ① PROVIDE REFRIGERANT LINE SETS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SIZING REQUIREMENTS.
 - ② PROVIDE WITH TXV-VALVE, SIGHT GLASS, FILTER DRIER, LOW-AMBIENT COOLING OPTION, & 5-MINUTE ANTI-CYCLE TIMER.
 - ③ SINGLE POINT POWER TO CONDENSING UNIT (CU) WITH INDOOR AIR HANDLER UNIT (AHU) POWERED FROM CU. DISCONNECTS TO BE PROVIDED BY ELECTRICIAN.
 - ④ HEAT PUMP CONDENSING UNIT SHALL HAVE INVERTER DUTY (DRIVEN) COMPRESSOR WITH DEHUMIDIFICATION MODE IN AHU.
 - ⑤ AIR HANDLER WITH WALL MOUNT BRACKET, LOW AMBIENT COOLING, AUTO-RESTART ON LOSS OF POWER, MFG'S CONDENSATE PUMP, AND OVERFLOW SAFETY SWITCH. PROVIDE WITH 120V (10-FT LIFT) CONDENSATE PUMP TO PUMP CONDENSATE TO EXTERIOR (SAUERMAN S120 OR SIMILAR).

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JOB NO : 21021

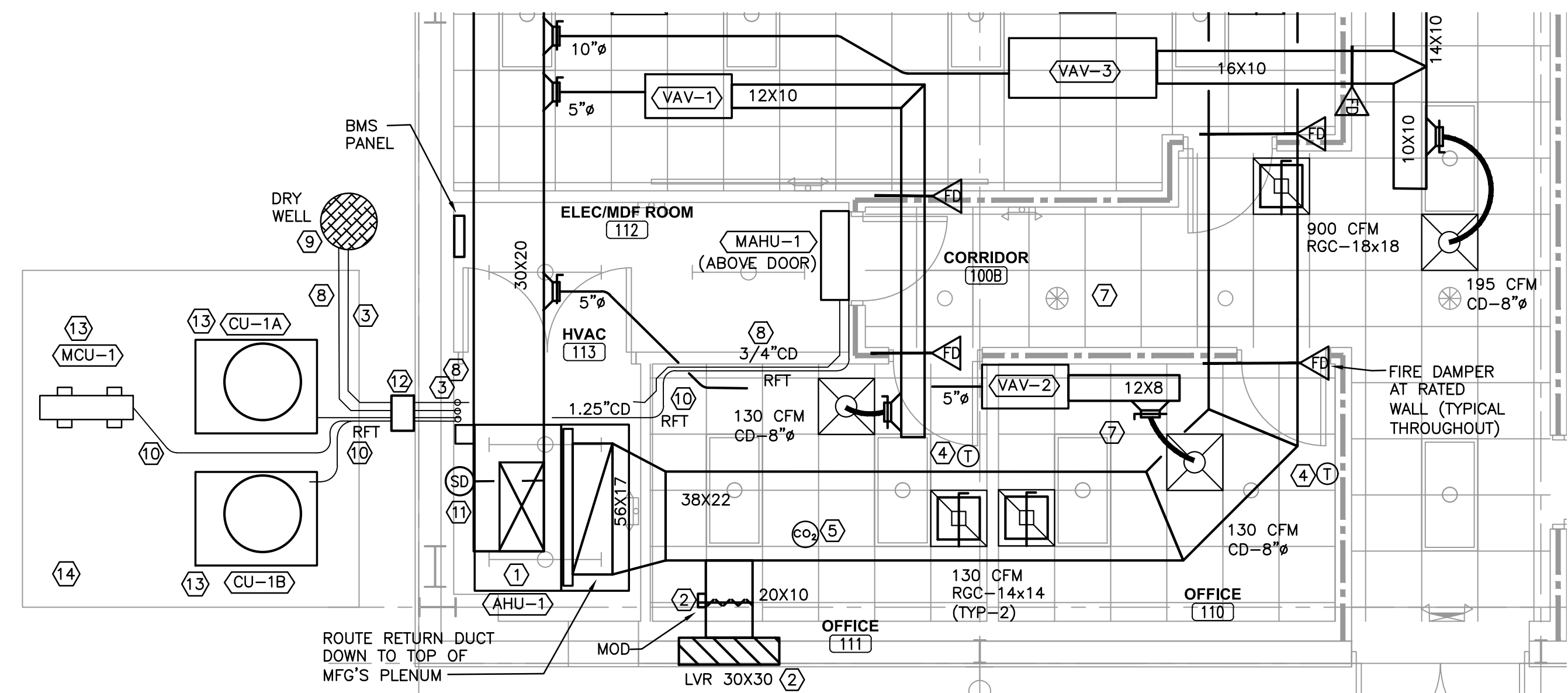
DRAWN BY : KP



ISSUE DATE : 05.26.21

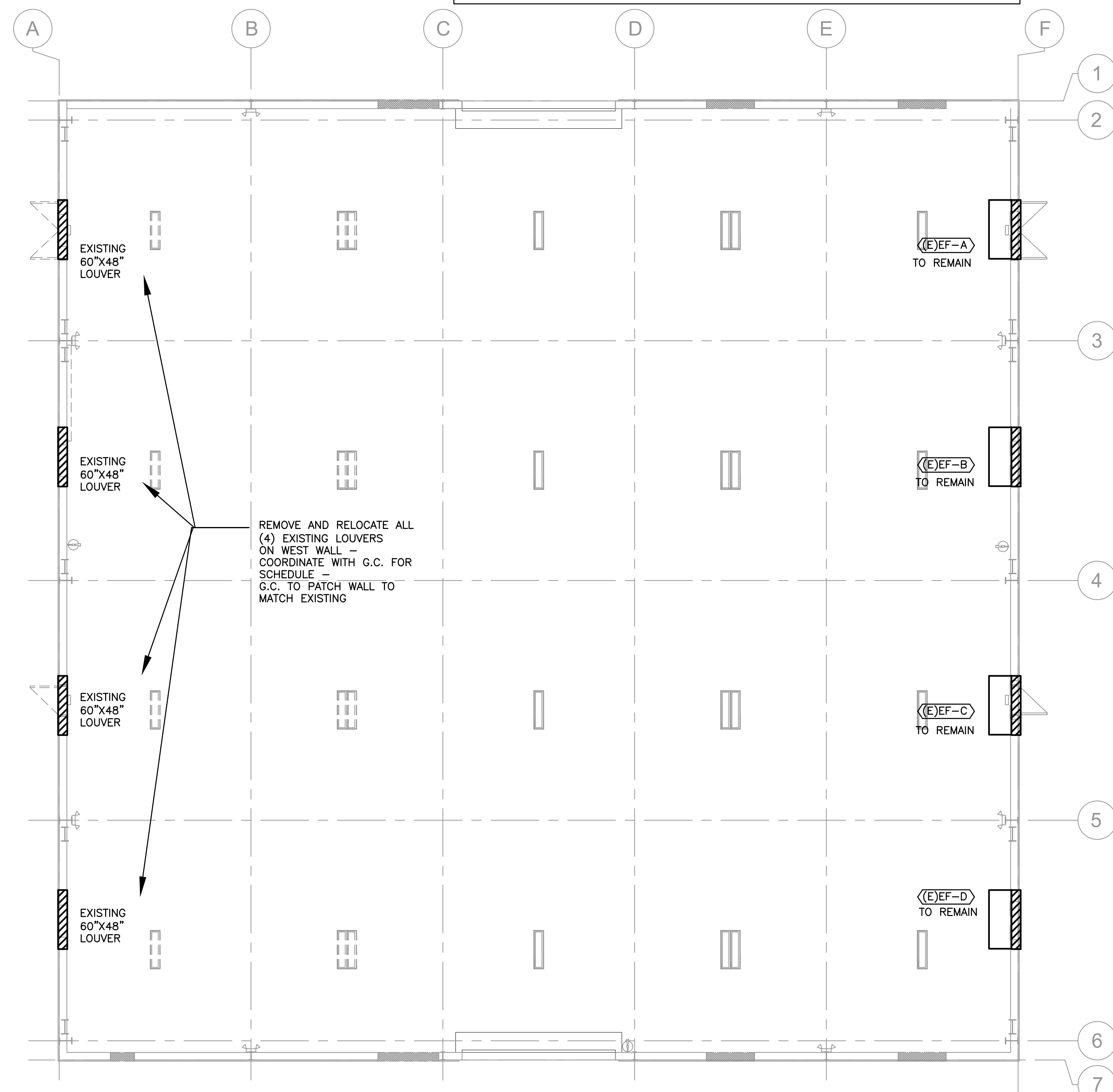
SHEET NAME:
MECHANICAL
DETAILS

SHEET NUMBER
M-003

1. AIR HANDLER (VERTICAL) – RETURN AND SUPPLY ROUTED TO THE CEILING SPACE. RETURN PLENUM BOX FROM FACTORY.
2. FRESH AIR INTAKE LOUVER 30X30 ABOVE CEILING HEIGHT WITH DUCT TRANSITION TO CO2 CONTROLLED MOTORIZED DAMPER & MANUAL VOLUME BALANCE DAMPER.
3. ROUTE 1.25" CONDENSATE LINE FROM AHU-1 WITH ARMAFLEX INSULATION THROUGH EXTERIOR WALL AND WEATHERTIGHT SEAL. ROUTE ON CONCRETE PAD TO SPILL INTO DRYWELL.
4. COORDINATE THERMOSTAT LOCATION WITH FURNITURE LAYOUT AND OWNER'S REP PRIOR TO ROUGH-IN OF BACKBOX/WIRE.
5. CO2 SENSOR FOR FRESH-AIR INTAKE IN RETURN DUCT.
6. 20X20 WALL EXHAUST LOUVER FOR RESTROOM EXHAUST FANS. LOCATE EXHAUST 3 FEET FROM OPERABLE OPENINGS AND 10 FEET FROM FRESH AIR INTAKES AND ABOVE CEILING HEIGHT.
7. VOLUME DAMPER IN EACH BRANCH SUPPLY & RETURN DUCT (TYPICAL THROUGHOUT). LOCATE ABOVE LAY-IN CEILING ONLY. DAMPER TO BE ACCESSIBLE AFTER CONSTRUCTION IS COMPLETED.
8. RUN 0.75" CONDENSATE LINE FROM MAHU-1 WITH ARMAFLEX INSULATION, INTO HVAC ROOM, THEN THROUGH WALL WITH WEATHERTIGHT SEAL. ROUTE ON CONCRETE PAD AND SPILL OUT INTO DRYWELL.
9. PROVIDE DRYWELL – SEE DETAIL.
10. ROUTE REFRIGERANT PIPING FOR AHU-1 AND MAHU-1 THROUGH EXTERIOR WALL. SEAL WALL PENETRATIONS WEATHERTIGHT. EXTEND PIPING ON CONCRETE PAD WITH GALVANIZED UNIMISTRUT CLAMPS AT 2'-FT INTERVALS TO RESPECTIVE CONDENSING UNIT.
11. DUCT SMOKE DETECTOR. INSTALLED BY MECHANICAL CONTRACTOR AND FURNISHED BY FIRE ALARM CONTRACTOR.
12. ROUTE REFRIGERANT LINE SET AND 0.75"Ø CONDENSATE FROM MINISPLIT DOWN AT THE INTERIOR WALL AND THROUGH THE WALL WITH WEATHERTIGHT SEAL.
13. SECURE CONDENSING UNIT TO CONCRETE PAD (SEE DETAIL).
14. CONCRETE PAD FOR CONDENSING UNITS – BY G.C.

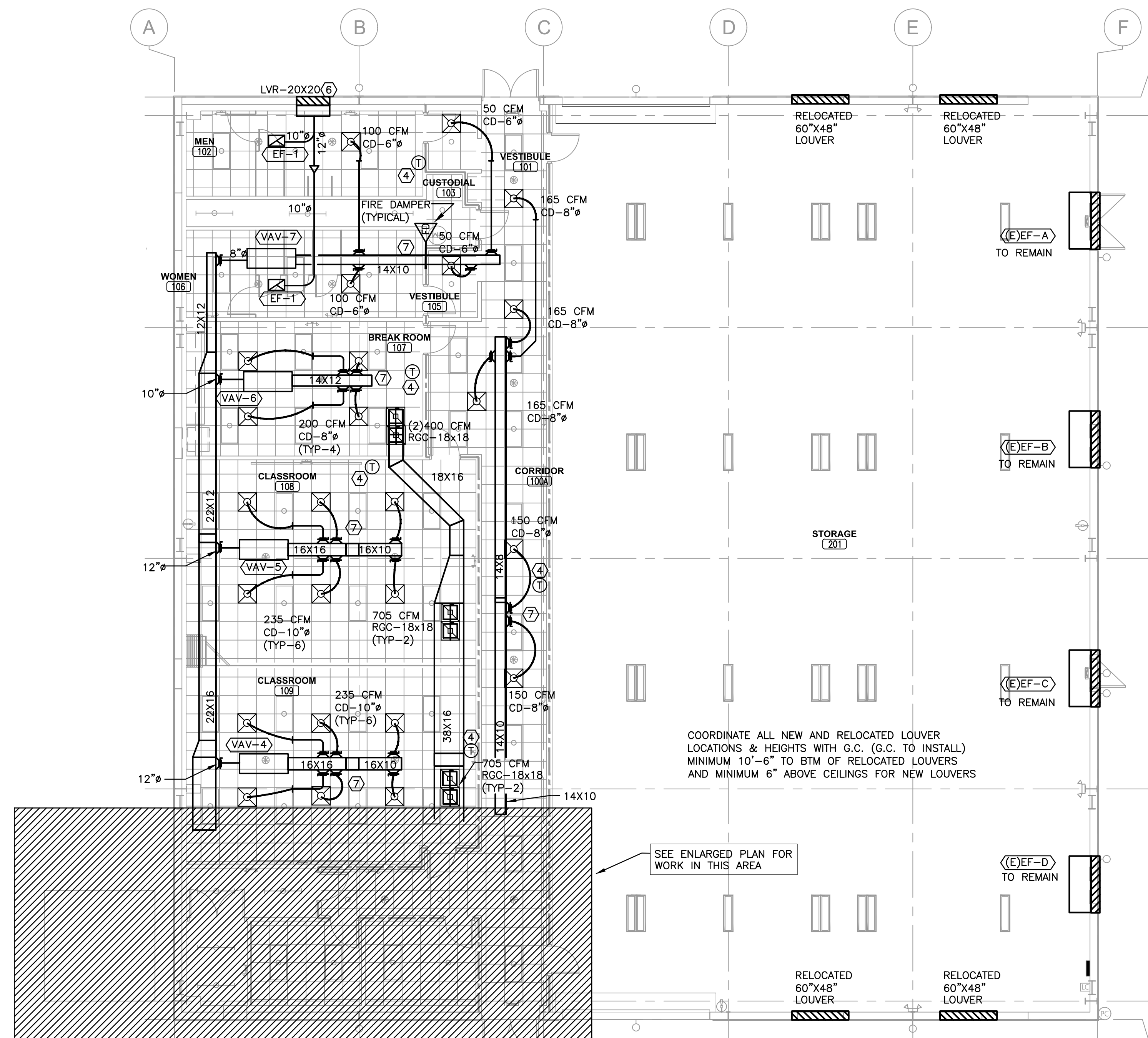



 **2** **ENLARGED MECHANICAL PLAN**
 FEET
 SCALE: 1/4" = 1'-0"




1 DEMOLITION FLOOR PLAN

0 1 2 3 4 5 10 15 FEET
SCALE: 1/8" = 1'-0"



 **2 MECHANICAL FLOOR PLAN**

 0 1 2 3 4 5 10 15 FEET

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

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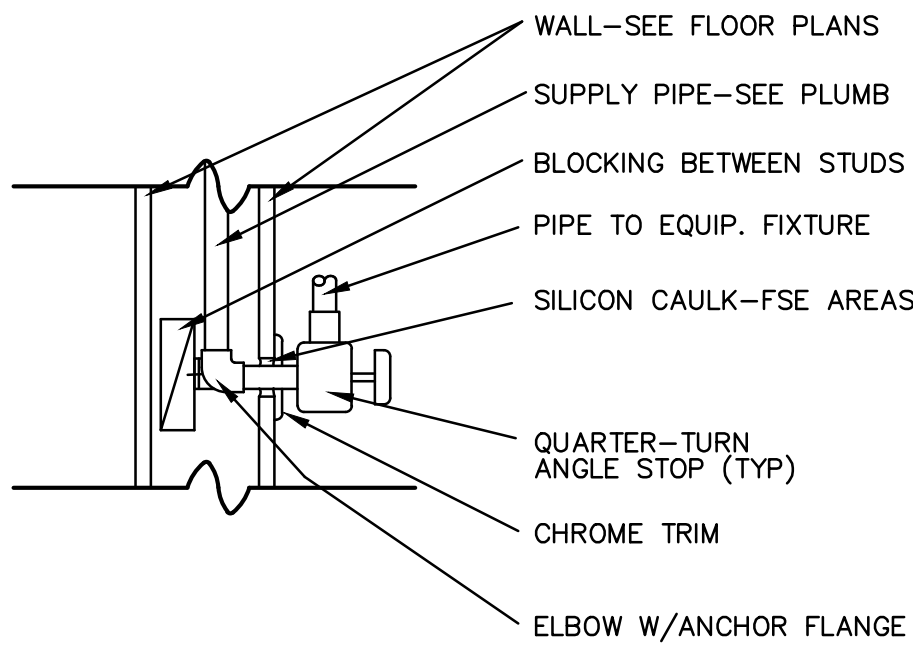
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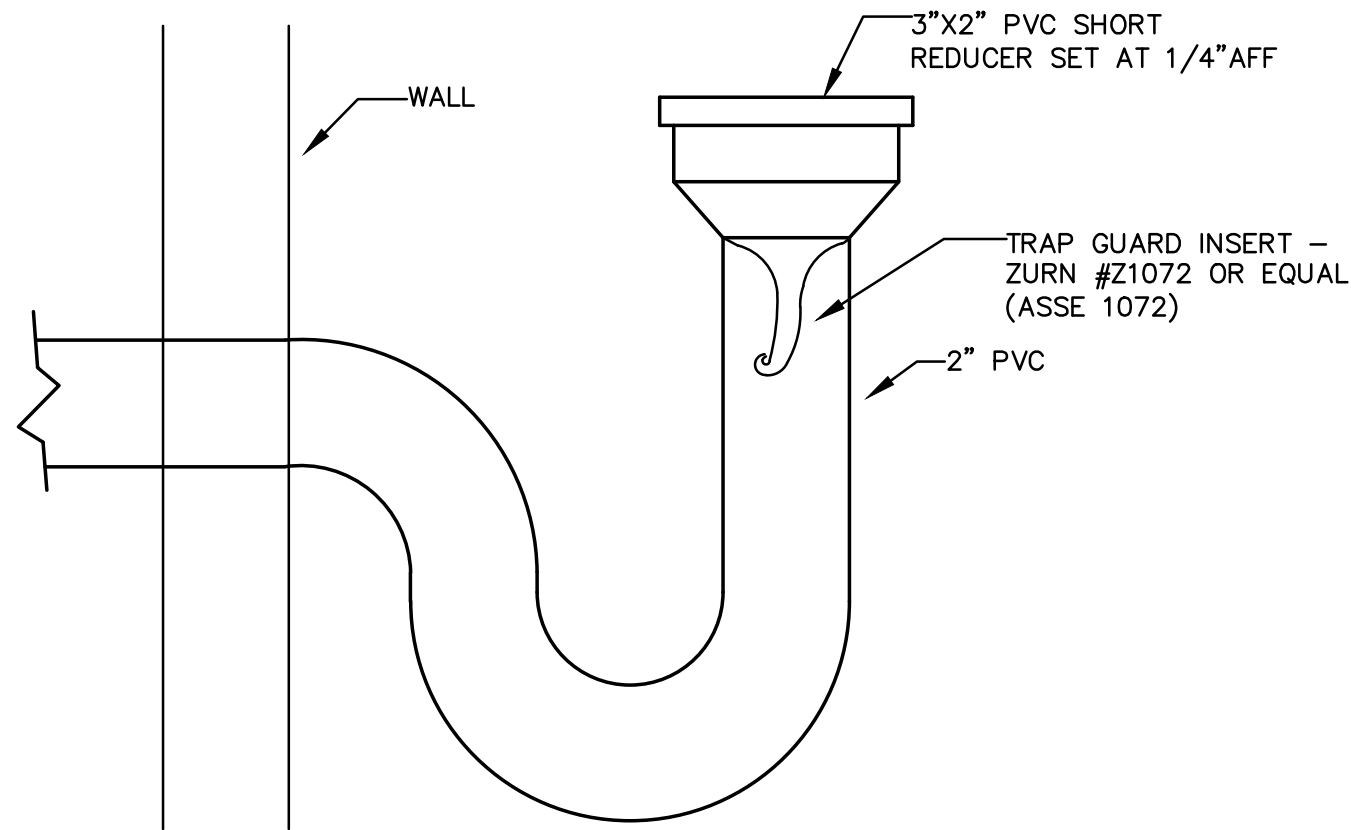
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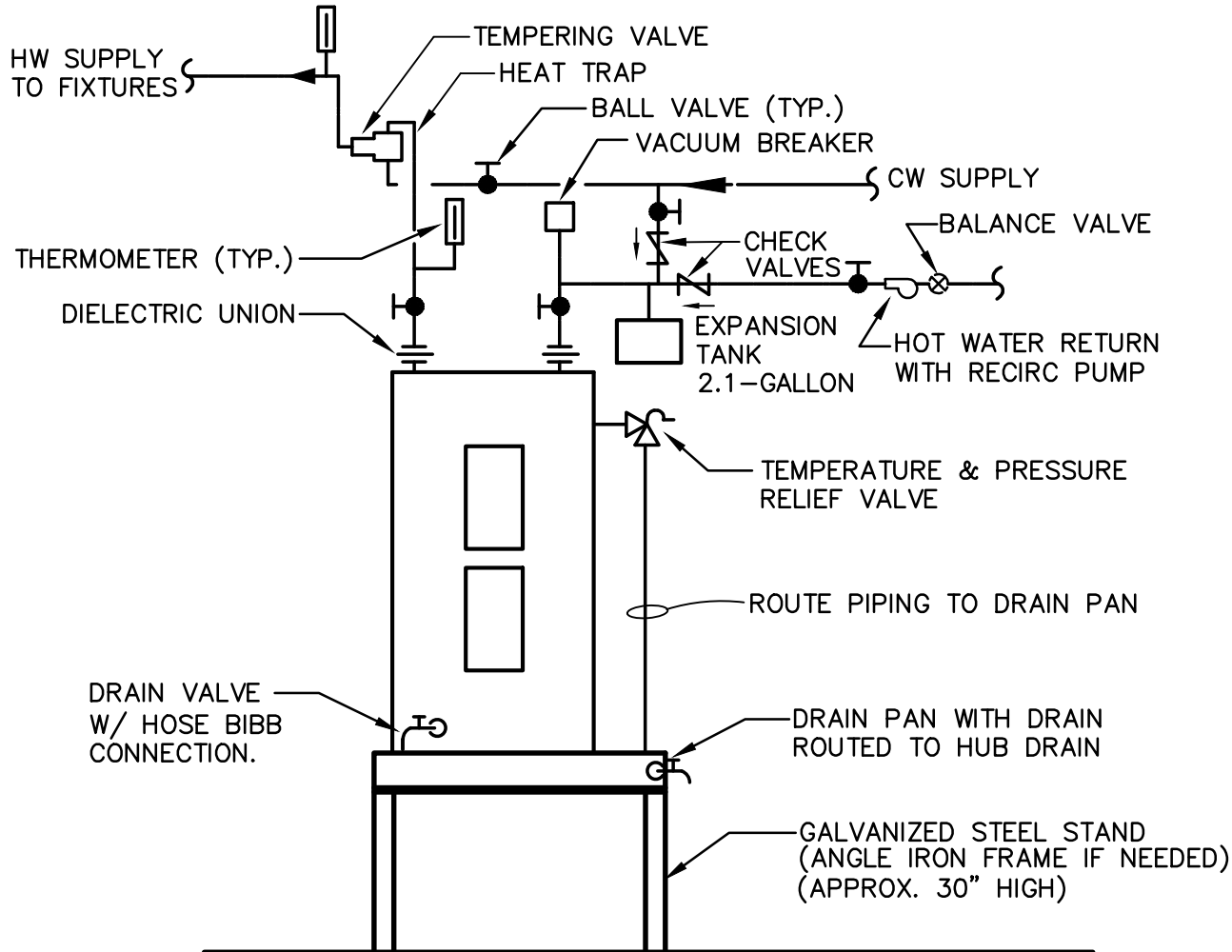
FIXTURE & CONNECTION SCHEDULE							
FIXTURE	TAG	BRANCH SIZE				MANUFACTURER/MODEL	REMARKS
		DRAINAGE		WATER			
		WASTE	VENT	COLD	HOT		
WATER CLOSET (ADA)	WC-1	3"	2"	1-1/4"	--	AMERICAN STANDARD # 2294.011EC FLUSH VALVE: SLOAN G2 8111-1.6 ZURN #Z1201-N	WATER CLOSET: WALL-HUNG, ELONGATED, VITREOUS CHINA. MOUNT AT ADA-COMPLIANT HEIGHT. FLUSH VALVE: BATTERY POWERED, 1.6-GPF CARRIER: ADJUSTABLE VERTICAL SIPHON JET NO HUB
WATER CLOSET	WC-2	3"	2"	1-1/4"	--	AMERICAN STANDARD # 2294.011EC FLUSH VALVE: SLOAN G2 8111-1.6 ZURN #Z1201-N	WATER CLOSET: WALL-HUNG, ELONGATED, VITREOUS CHINA. FLUSH VALVE: BATTERY POWERED, 1.6-GPF CARRIER: ADJUSTABLE VERTICAL SIPHON JET NO HUB
LAVATORY (ADA)	LAV-1	2"	2"	1/2"	1/2"	AMERICAN STANDARD LUCERNE #0355.012 FAUCET: SLOAN # EAF-150 MIXING VALVE: LAWLER # TMM-1070 CARRIER: ZURN #Z1231	LAVATORY: 20"x18", VITREOUS CHINA, WITH FAUCET LEDGE AND INTEGRAL OVERFLOW. PROVIDE ARM CHAIR FLOOR CARRIER. BATTERY POWERED FAUCET WITH 4" CENTERS, 0.5-GPM AERATOR, & GRID DRAIN ASSEMBLY. PROVIDE ASSE 1070 LISTED MIXING VALVE SET TO 109°F, TAILPIECE, P-TRAP, SUPPLY & STOPS. INSULATE EXPOSED PIPING WITH TRUEBRO LAV GUARD KIT.
LAVATORY	LAV-2	2"	2"	1/2"	1/2"	AMERICAN STANDARD LUCERNE #0355.012 FAUCET: SLOAN # EAF-150 MIXING VALVE: LAWLER # TMM-1070 CARRIER: ZURN #Z1231	LAVATORY: 20"x18", VITREOUS CHINA, WITH FAUCET LEDGE AND INTEGRAL OVERFLOW. PROVIDE ARM CHAIR FLOOR CARRIER. BATTERY POWERED FAUCET WITH 4" CENTERS, 0.5-GPM AERATOR, & GRID DRAIN ASSEMBLY. PROVIDE ASSE 1070 LISTED MIXING VALVE SET TO 109°F, TAILPIECE, P-TRAP, SUPPLY & STOPS. INSULATE EXPOSED PIPING WITH TRUEBRO LAV GUARD KIT.
URINAL	UR-1	2"	2"	3/4"	--	AMERICAN STANDARD "ALLBROOK" #6550.001 CARRIER: ZURN #Z1222	URINAL: 14" LIP, VITREOUS CHINA, INTEGRAL OVERFLOW. FLUSH VALVE: SLOAN # G2 8186-1.0, BATTERY-POWERED. PROVIDE FLOOR CARRIER WITH BEARING PLATE.
DRINKING FOUNTAIN (ADA)	EWC-1	2"	2"	1/2"	--	ELKAY # LZS8WSP CARRIER: ZURN #Z1225	ELECTRIC WATER COOLER, 1-STATION, BOTTLE-FILLING STATION, STAINLESS STEEL BASIN, WITH MANIFOLD WATER/SANITARY CONNECTIONS, FLOOR CARRIER. 120-V/1-PH. DISCONNECT BY ELECTRICIAN
MOP BASIN	MB-1	2"	2"	1/2"	1/2"	FIAT # FL-1 FAUCET: FIAT # A-1	MOP SINK: MOLDED PLASTIC, 20.25X17.25X13, (4) 20"LEGS, 2" DRAIN & BASKET STRAINER, 600-LB CAPACITY FAUCET: DECK TYPE FAUCET, BRASS FAUCET WITH SERVING SPOUT.
WATER HEATER	WH-1	--	--	3/4"	3/4"	RHEEM # PROE28 S2 RH95 MIXING VALVE: WATTS # LFMMV	WATER HEATER: 28-GALLON TANK, UL-LISTED, EF = 0.95, WITH (2) 4.5-KW NON-SIMULTANEOUS ELEMENTS @ 208-V/1-PH. PROVIDE ASSE 1017 MIXING VALVE SET TO 110°F, EXPANSION TANK, T & P VALVE, TANK DRAIN VALVE, FIELD MEASURED STAND AND GALVANIZED DRAIN PAN.
RECIRC PUMP	RP-1 BV	--	--	--	1/2"	TACO 003	HOT WATER RECIRCULATION PUMP. 115 V, 0.43 AMP, 1/40 HP, 1/2"CONNECTIONS, 4 FT HEAD. PROVIDE BALANCE VALVE, AQUASTAT & 7-DAY PROGRAMMABLE TIMER.
HOSE BIBB	HB-1	--	--	1/2"	--	WOODFORD # B24	HOSE BIBB: WALL HYDRANT, FLUSH WALL BOX, POLISHED BRASS FACE PLATE, BRONZE CASING, HOSE CONNECTION WITH INTEGRAL VACUUM BREAKER, WHEEL HANDLE. T-KEY FOR BOX.
FLOOR CLEANOUT	FCO	SEE PLAN	--	--	--	ZURN # Z1400-BZ	"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST-IRON, POLISHED BRONZE TOP, ADJUSTABLE TO FLOOR FINISH.



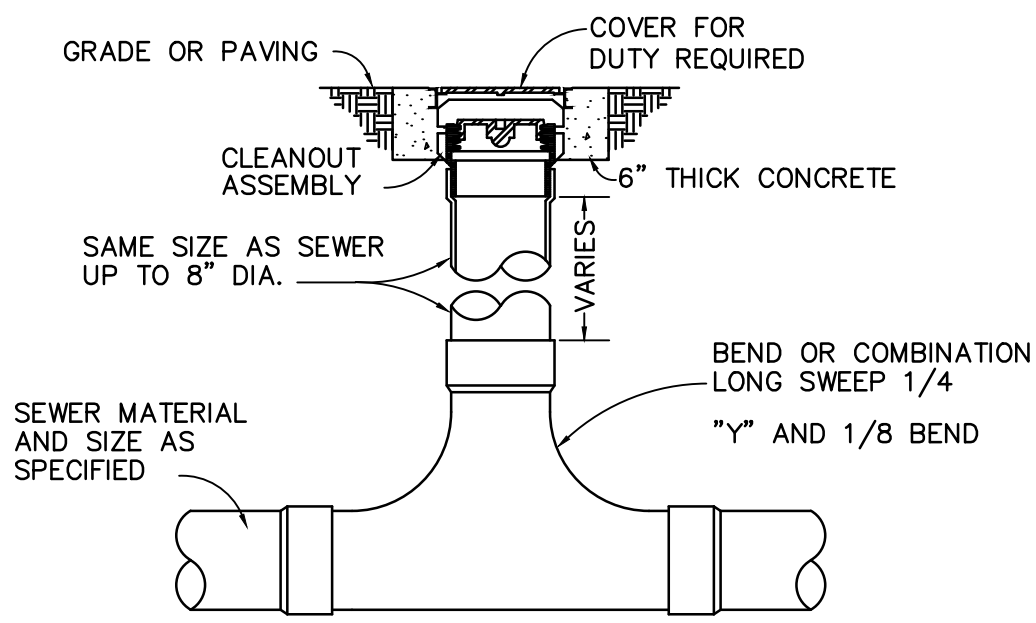
FIXTURE SHUT-OFF VALVE
NOT TO SCALE



HUB DRAIN DETAIL
SCALE: NONE



RECIRCULATING WATER HEATER DETAIL
NOT TO SCALE



2-WAY GRADE CLEANOUT DETAIL (COTG)
SCALE: NONE

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AND ASSOCIATES
2257 TWELVE OAKS WAY, SUITE 103
WESLEY CHAPEL, FL 33544
REGISTRY # 8397 21-062
MATTHEW D. LEWIS, P.E. FL LIC#56189

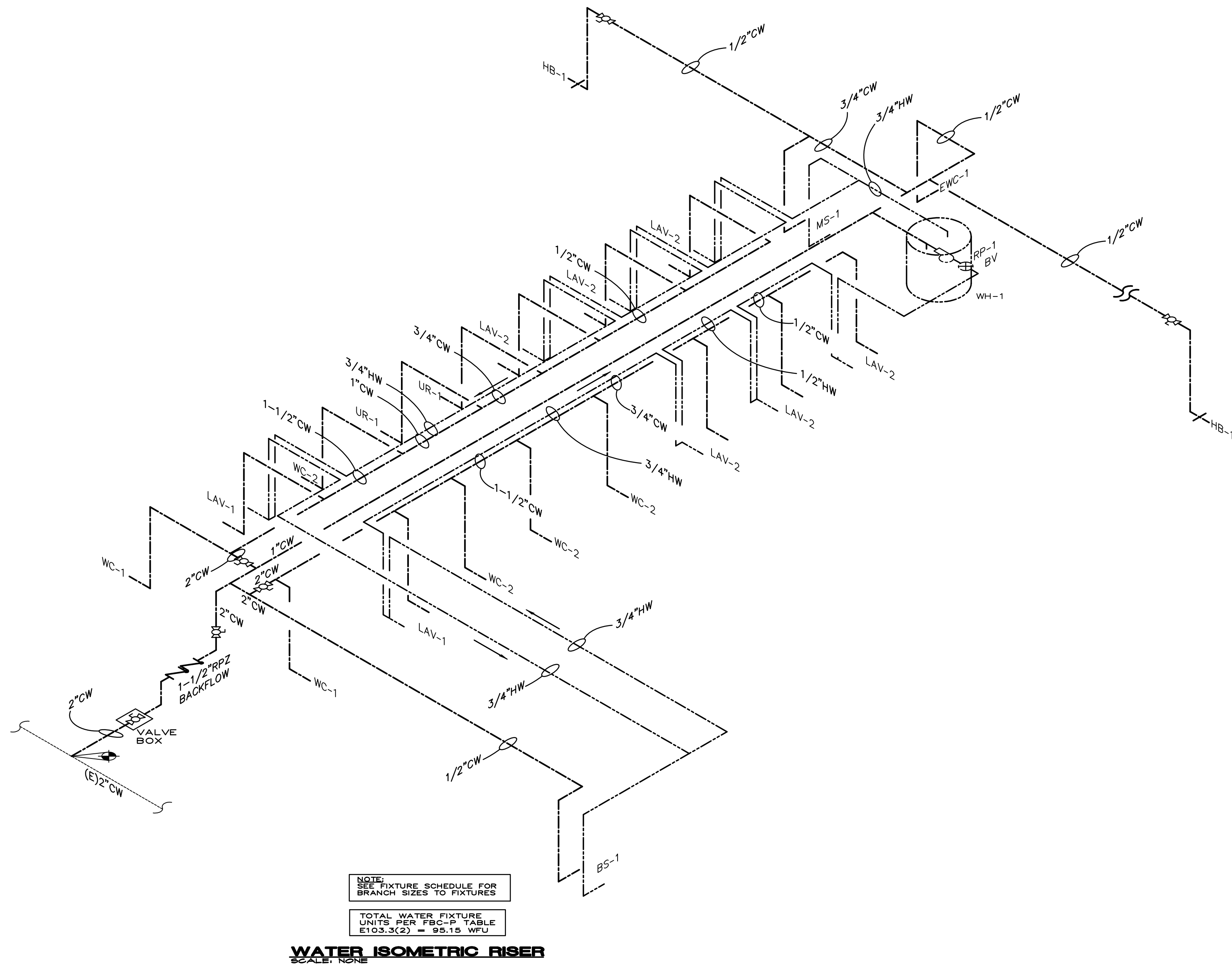
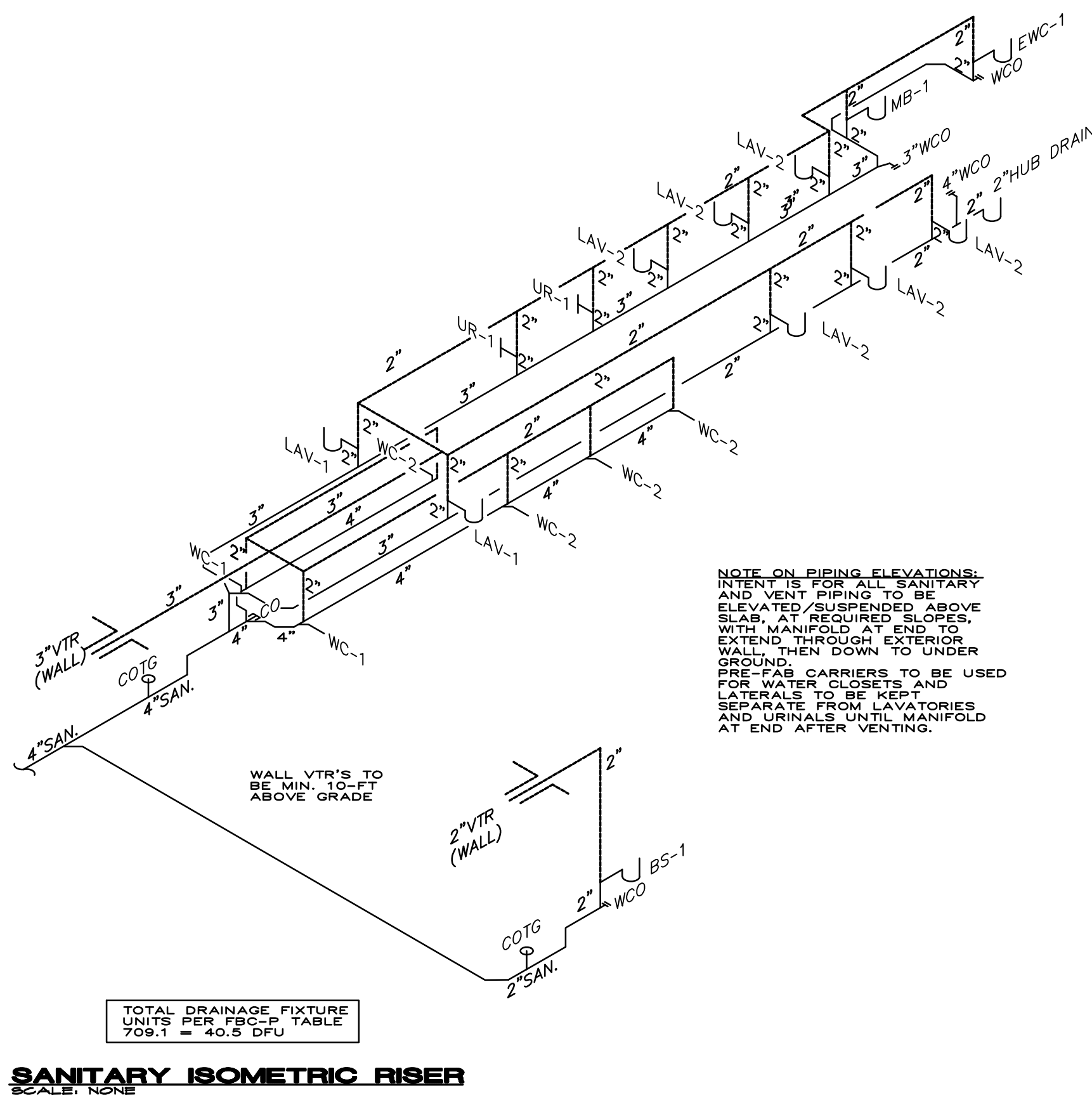
HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
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SCHEDULE & DETAILS
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Dwg Name: PLUMBING.dwg [P-101] - Printed on May 27, 2021 - 6:09PM, by ltm



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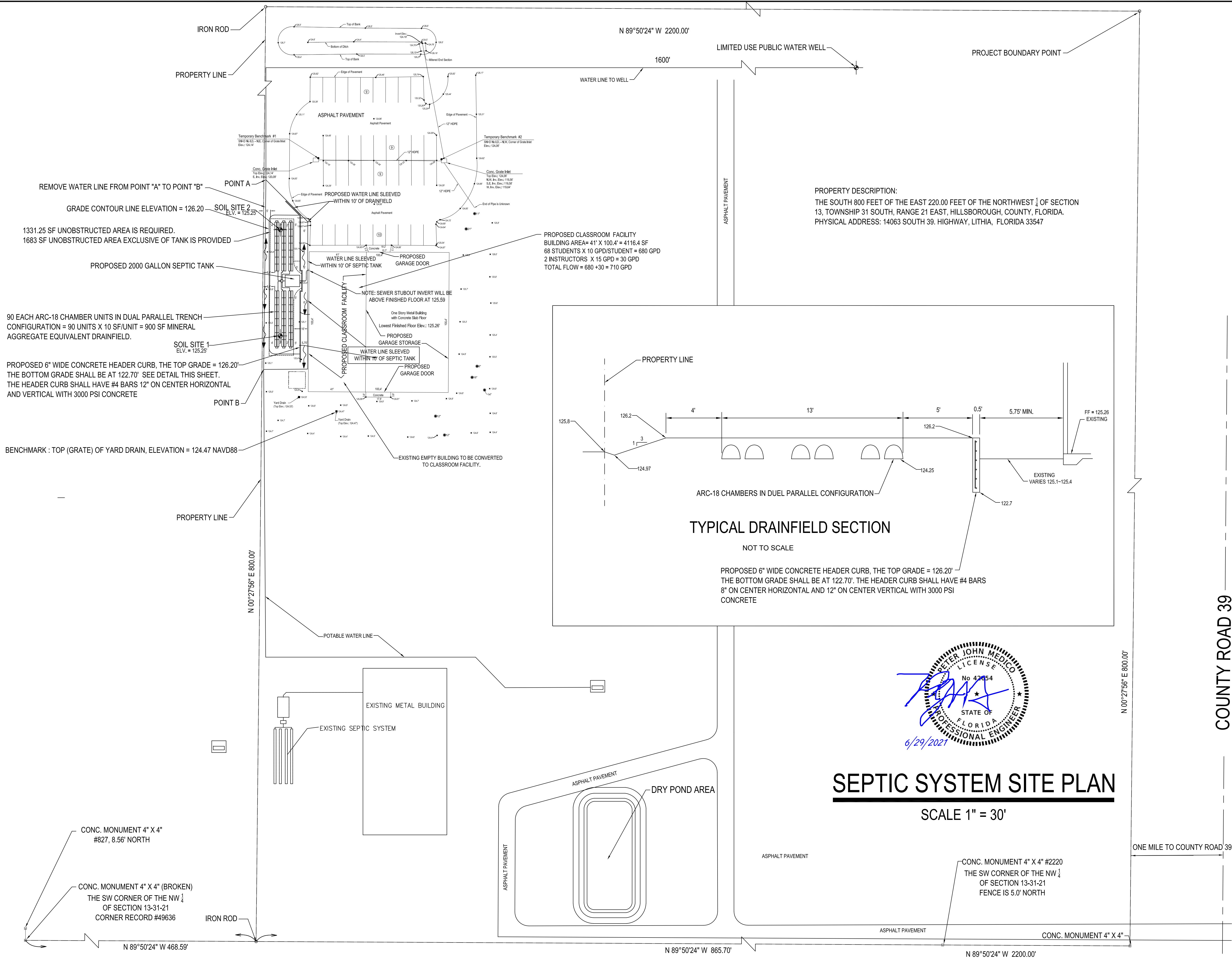
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This item has been electronically signed and sealed by Joseph V. Bellucio using a Digital signature and date. Printed copies of this document must not be considered signed and sealed and the signature must be verified on any electronic copies.

HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
Practical Training Site
Office & Classroom Renovation
in Existing Pavilion

PETER J. MEDICO, P.E.

FL REG PE42654

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