

AREA OF WORK

LOCATION MAP - BIG PINE KEY

DRAWING LIST
A-1.0 SITE PLAN
AD-2.0 DEMOLITION PLAN
A-2.0 FLOOR PLAN
A-3.0 DETAILS AND SCHEDULES
A-4.0 SPECIFICATIONS
A-4.1 SPECIFICATIONS
ID-2.0 INTERIOR DESIGN
ID-2.1 CABINETRY ELEVATIONS
E-1.0 ELECTRIC NOTES
E-2.0 POWER AND LIGHTING
M-1.0 MECHANICAL NOTES
M-2.0 MECHANICAL PLAN
P-1.0 PLUMBING NOTES
P-2.0 PLUMBING PLAN
P-3.0 PLUMBING RISER
S-0.1 STRUCTURAL SPECIFICATIONS
S-0.2 STRUCTURAL SPECIFICATIONS
S-1.0 STRUCTURAL PLAN
Ex-1 EXISTING FIRST FLOOR PLAN
Ex-2 EXISTING FIRST FLOOR ELECTRIC

SCOPE OF WORK

WORK INCLUDES REMOVAL OF EXISTING FINISHES, STRUCTURAL SLAB, WINDOWS, AND DOORS. A NEW FLOODPROOF SLAB STRUCTURE WITH NEW FLOOR FINISHES AND FLOOR DRAINS, INSTALLATION OF NEW WINDOWS AND DOORS IN EXISTING EXTERIOR OPENINGS, NEW FURRING STRIPS AS NECESSARY, NEW PARTITION WALLS WITH DURROCK AND A KNOCKDOWN PLASTER FINISH. ALL WORK IS TO BE COMPLETED ON FIRST FLOOR ONLY.

WORK ALSO INCLUDES MAKING THE RESTROOMS ADA COMPLIANT, UTILIZING EXISTING WATER CLOSETS AND NEW ADA SINK FIXTURE, SOAP DISPENSER, TOILET PAPER HOLDER, AND HAND DRYER. THERE WILL ALSO BE NEW CABINETRY WITH ART SINKS IN EACH CLASSROOM ALONG WITH A WATER FOUNTAIN.

ALL A/C UNITS ARE TO BE REUSED IN EXISTING LOCATIONS AND THEIR CONDENSERS ARE TO BE RAISED TO 9'0" NGVD.

SITE -DATA

LAND USE: SC (SUBURBAN COMMERCIAL)
FLOOD ZONE:A E +8.0' NGVD
SITE AREA: 4 ACRES (174240 SF)
SETBACKS

FRONT YARD SETBACK =25'
SIDE YARD SETBACKS =10/15'
REAR YARD =10'

ALL SETBACKS REMAIN UNCHANGED

HEIGHT ALLOWED = 35'-0" MAX

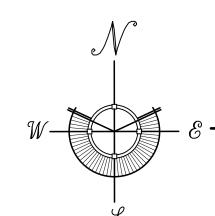
NO CHANGE IN LOT COVERAGE OR IMPERVIOUS

COVERAGE

LEGAL DESCRIPTION: 26 66 29 BIG PINE KEY PT N1/2 OF SW1/4 PARCEL 5-6-7 TROPIC ISLAND RANCHETTES & PT E1/2 OF NW1/4 OR864-183 OR879-2007 OR879-2009/10 OR952-1895E OR1348-1057/ 59Q/C OR1348-1060/62 OR1348-1063/65 OR1348-1066/68 RE 111420-000700 111420-000800 & 111700-000100 COMBINED FOR ASSMT PURPOSES 5-21-96



WORK IS LIMITED TO THE LOWER LEVEL OF THIS BUILDING



SITE PLAN

SITE PLAN BASED ON AERIAL INFORMATION FROM THE MONROE COUNTY PROPERTY APPRAISER

SCALE: 1/32"=1'-0"

WILLIAM P. HORN ARCHITECT, P.A.

915 EATON ST.

KEY WEST,

FLORIDA

33040

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BIG PINE ACADEMY
BIG PINE, FLORIDA

CEAI

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11-09-18 SD 01-20-19 DD 02-21-19 PRELIM. REVIEW 03-25-19 PRICING REVIEW

04-17-19 PERMIT SUBMIT

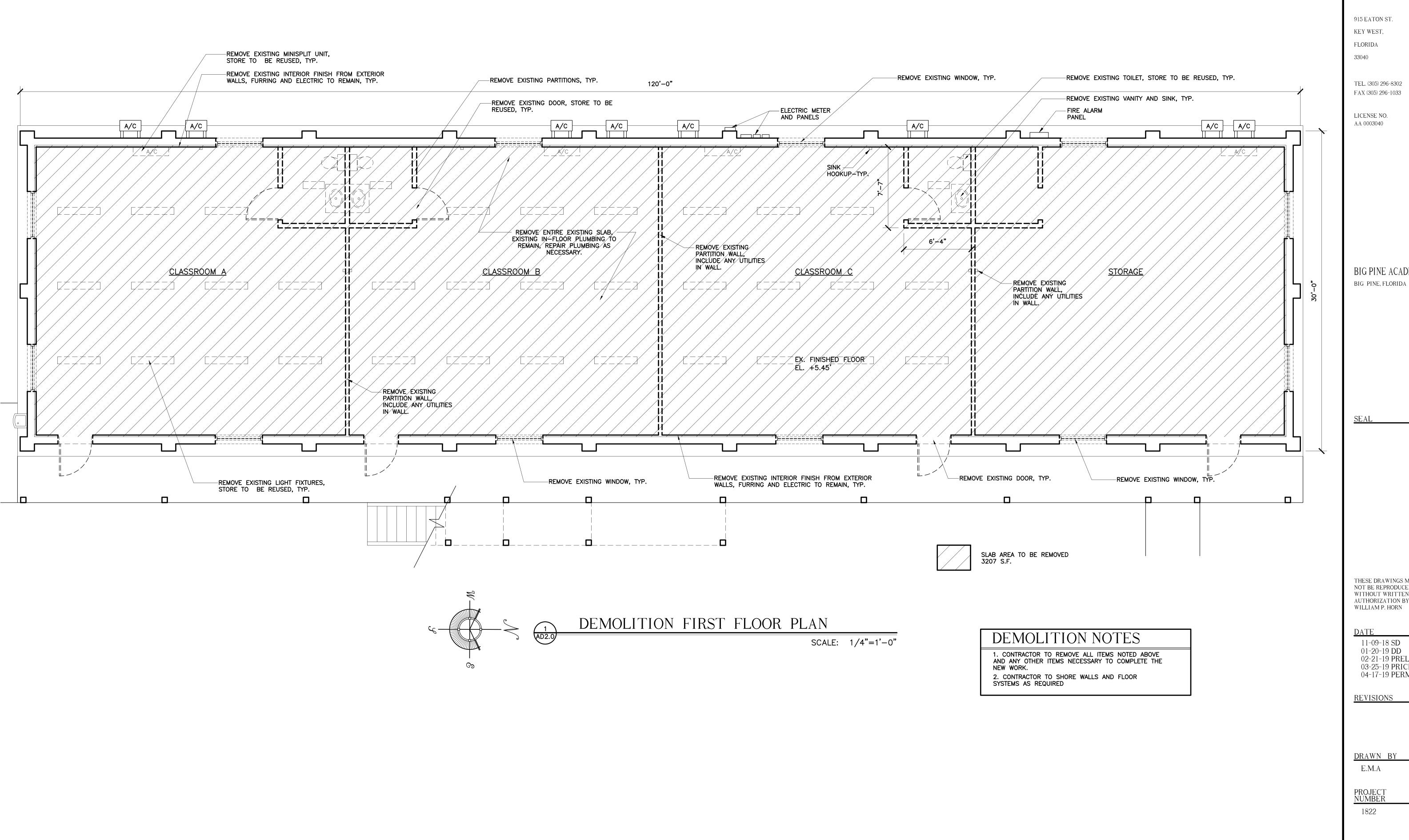
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E.M.A

REVISIONS

NUMB

A1.0

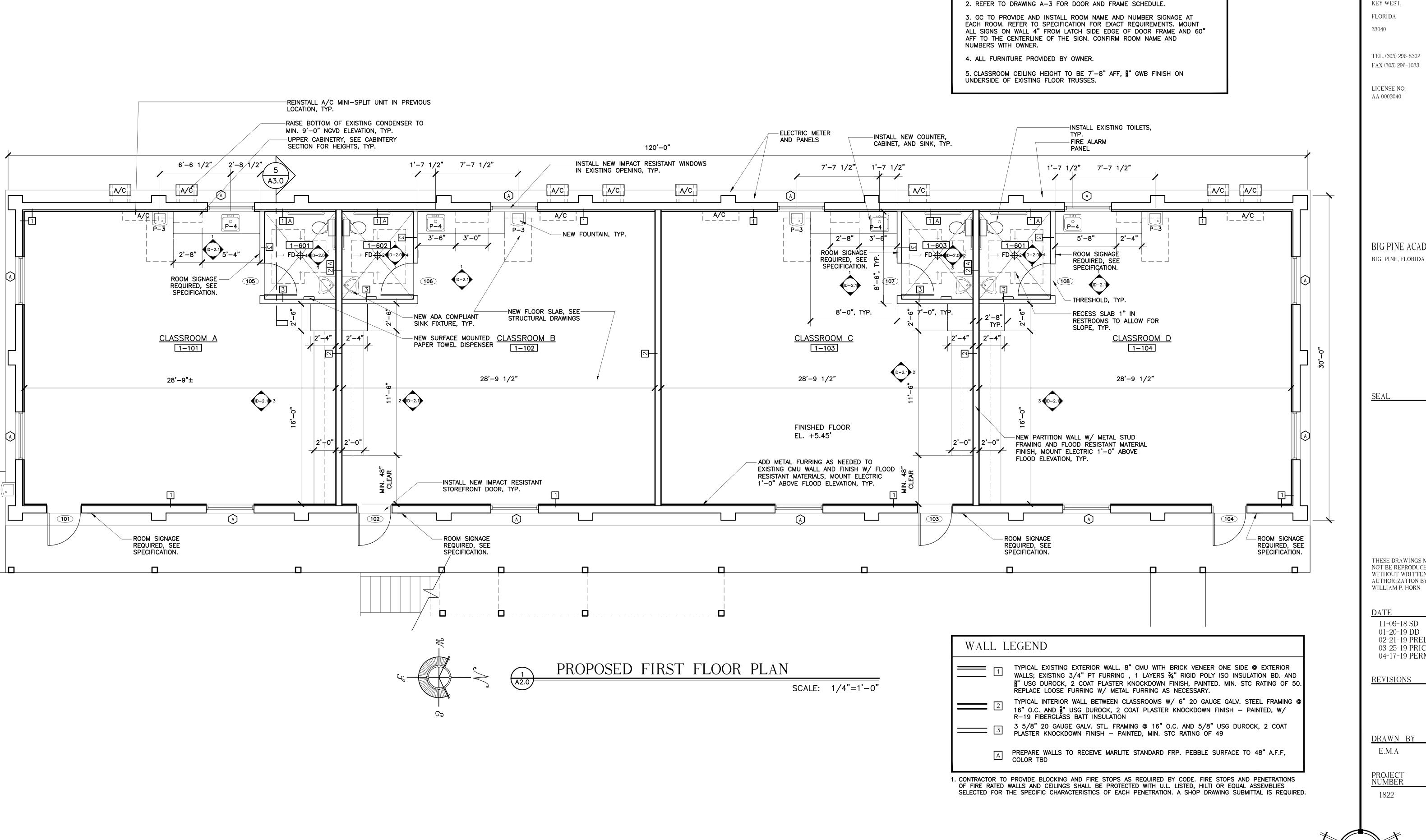


BIG PINE ACADEMY

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WILLIAM P. HORN ARCHITECT, P.A.

915 EATON ST. KEY WEST,

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH DURROCK UNLESS OTHERWISE

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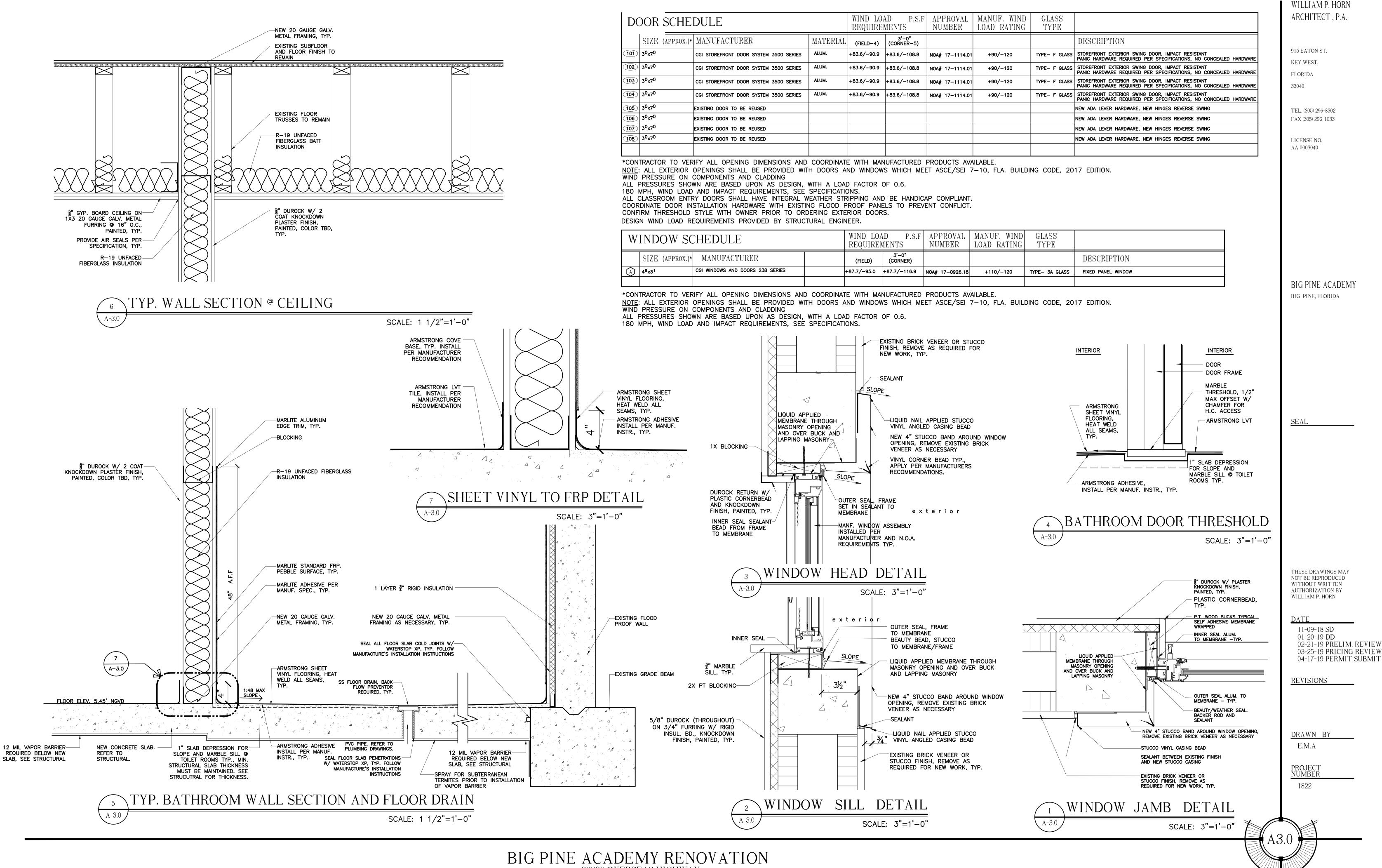
BIG PINE ACADEMY

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01800 - GENERAL REQUIREMENTS

PROJECT DESCRIPTION THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED AND NECESSARY TO PROVIDE A COMPLETE HABITABLE, WEATHERPROOF, SAFE AND SECURE FINISH BUILDING, SUITABLE FOR HUMAN OCCUPANCY IN ACCORDANCE WITH SPECIFICATIONS, DRAWING AND PROJECT DOCUMENTS.

THE GENERAL CONDITION OF THE CONTRACT, AIA DOCUMENT A201, LATEST EDITION, ARE HEREBY MADE A PART OF THESE CONSTRUCTION DOCUMENTS AND SHALL APPLY TO THIS PROJECT.

THE FLORIDA BUILDING CODE 2017 EDITION, AS AMENDED BY GOVERNING LOCAL ORDINANCES AND REQUIREMENTS OF THE STATE OF FLORIDA "COASTAL ZONE PROTECTION ACT", TOGETHER WITH APPLICABLE REQUIREMENTS OF GOVERNING PUBLIC AGENCIES AND THE FOLLOWING LISTED CODES SHALL APPLY TO THIS PROJECT.

FLORIDA EXISTING BUILDING CODE, 2017EDITION
FLORIDA BUILDING CODE-ACCESSIBILITY, 2017 EDITION

FLORIDA BUILDING CODE-ENERGY CONSERVATION, 2017 EDITION NATIONAL ELECTRIC CODE 2014 EDITION

FLORIDA PLUMBING CODE, 2017 EDITION

FLORIDA MECHANICAL CODE, 2017 EDITION
FLORIDA FUEL GAS CODE, 2017 EDITION

<u>FEMA-</u> COORDINATE ALL BUILDING ITEMS REQUIRED TO BE ABOVE FLOOD ELEVATION FOR PROJECT AND OTHER FEMA REGULATIONS THAT APPLY TO THE PROJECT.

LEAD PAINT SAFETY REQUIREMENTS: THE CONTRACTOR IS REQUIRED TO USE LEAD SAFE WORK PRACTICES FOR BUILDINGS BUILT BEFORE 1978. ALL LEAD PAINT SHALL BE REMOVED OR COVERED AS PER EPA AND OTHER CODE REQUIREMENTS. CONTRACTOR TO COORDINATE WITH OWNER FOR INVESTIGATIVE METHODS, REMOVAL SOLUTIONS AND COSTS.

<u>CONTRACTOR</u> SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND REQUIREMENTS OF CONSTRUCTION PRIOR TO BIDDING.

CONTRACTOR SHALL COMPLETE NEW WORK IN CONFORMANCE WITH THESE DRAWINGS. NOTIFY ARCHITECT IF CONFLICTS APPEAR OR ARE UNCOVERED DURING THE PROGRESS OF THE WORK PRIOR TO ANY FIELD

OR CONSTRUCTION. DEVIATIONS FROM PERMITTED DRAWINGS WITHOUT ARCHITECTS PRIOR WRITTEN APPROVAL SHALL BE AT THE CONTRACTORS RESPONSIBILITY. CONTRACTOR IS TO VERIFY ALL DIMENSIONS OF PROJECT PRIOR TO PROCEEDING WITH CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICTS OR PROBLEMS SO SOLUTIONS CAN BE ACHIEVED PRIOR TO CONSTRUCTION. IN EVENT OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS THE MOST STRINGENT REQUIREMENTS SHALL APPLY. VERIFICATION SHALL INCLUDE, BUT NOT LIMITED TO, COORDINATION OF SITE WORK, EXISTING CONDITIONS, BUILDINGS AND UTILITIES. NOTIFY ARCHITECT OF ANY CONFLICTS SO SOLUTION CAN BE WORKED OUT PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL PROVIDE ALL SUBCONTRACTORS COMPLETE SET OF DRAWINGS, INCLUDING DRAWINGS FROM OTHER DISCIPLINES. CHANGE ORDERS WILL NOT BE ALLOWED BECAUSE A SUBCONTRACTOR ONLY LOOKED AT DRAWINGS FOR HIS DISCIPLINE AND NOT OTHER DISCIPLINES. CONTRACTOR MUST REVIEW ALL DRAWINGS AND NOTIFY ARCHITECT OF ANY CONFLICTS. IF A CONFLICT ARISES ASSUME WORST CASE SCENARIO FOR BIDDING AND OR CONSTRUCTION (OR NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO BIDDING). GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS AND ASSURING THAT HIS AND HIS SUBCONTRACTORS BIDS INCLUDE COMPLETE WORK AND SYSTEMS (FREE OF CONFLICT WITH OTHER CONTRACTORS AND SUBCONTRACTORS).

CONTRACTOR AND SUBCONTRACTOR SHALL FOLLOW INDUSTRY STANDARDS FOR EACH DISCIPLINE. DRAWINGS DO NOT SHOW EVERY CONDITION, FASTENER, ETC. . IF SOMETHING IS NOT DETAILED, FOLLOW INDUSTRY STANDARDS. PROVIDE COMPLETE FUNCTIONING SYSTEMS.

CONTRACTOR NEEDS TO COORDINATE FINAL COLOR SELECTIONS WITH OWNER AND ARCHITECT PRIOR TO ORDERING ITEMS. FACTORY FINISHED ITEMS SUCH AS ROOFING, WINDOWS + DOORS NEED COLOR + FINISH SELECTIONS VERIFIED IN WRITING BY OWNER + ARCHITECT PRIOR TO ORDERING.

ALLOWANCE ITEMS, IF ANY SHALL BE LISTED IN WRITING BY THE OWNER/ARCHITECT PRIOR TO BIDDING. GENERAL NOTES:

- A. ENGINEER'S APPROVAL MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS.
 B. VERIEY ALL OPENINGS THROUGH FLOORS, ROOF AND WALLS WITH MECHANICAL AND FLECT
- **B.** VERIFY ALL OPENINGS THROUGH FLOORS, ROOF AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S. VERIFICATION OF LOCATIONS, SIZES, LINTLE AND REQUIRED CONNECTIONS ARE CONTRACTOR'S COMPLETE RESPONSIBILITY.
- C. PRIOR TO INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT OR OTHER ITEMS TO BE ATTACHED TO THE STRUCTURE, ENGINEER'S APPROVAL OF CONNECTIONS AND SUPPORTS SHALL BE OBTAINED. UNLESS SPECIFICALLY DETAILED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, RESPECTIVE SUB-CONTRACTOR SHALL FURNISH ALL HANGERS, CONNECTIONS, ETC., REQUIRED FOR INSTALLATION OF HIS ITEMS.
- PROVIDE ALL EMBEDDED ITEMS IN STRUCTURE AS NOTED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AS WELL AS STRUCTURAL DRAWINGS. MISCELLANEOUS EMBEDDED ITEMS AND ANCHOR BOLTS SHALL BE FURNISHED BY STEEL SUPPLIER AND INSTALLED BY CONCRETE CONTRACTOR.
- E. PROVIDE TEMPORARY BRACING AND PRECAUTIONS NECESSARY TO WITHSTAND ALL CONSTRUCTION AND/OR WIND LOADS UNTIL ALL FIELD CONNECTIONS ARE COMPLETED AND SHEAR WALLS AND DECKS ARE IN PLACE. ALL SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING USE OF A SPECIALTY ENGINEER IF REQUIRED.
- F. SUBMIT SHOP AND ERECTION DRAWINGS FOR ALL ITEMS REQUIRED BY THE DRAWING OR ELSEWHERE IN THE SPECIFICATIONS FOR WRITTEN APPROVAL. THE MANUFACTURE OR FABRICATION OF ANY ITEMS PRIOR TO WRITTEN APPROVAL OF SHOP DRAWINGS WILL BE ENTIRELY AT THE RISK OF THE CONTRACTOR..ALL REFERENCES TO STANDARDS TO BE OF THE LATEST ISSUE APPLICABLE.
- THIS PROJECT IS IN A COASTAL SALT WATER ENVIRONMENT. CONTRACTOR SHALL CONSIDER THIS IN SELECTIONS OF MATERIALS USED IN THE EXTERIOR AND NON-AIR CONDITIONED AREAS. ALL MATERIALS SHALL BE SALT RESISTANT.
- MANUFACTURED ASSEMBLIES; SUCH AS ROOFING, SOFFITS, PANELS, STOREFRONT, DOORS, WINDOWS AND OTHER EXTERNAL ASSEMBLIES INCORPORATED INTO THE PROJECT SHALL REQUIRE DETAILED SHOP DRAWING SUBMITTALS. MIAMI DADE N.O.A'S PROVIDING TESTED ASSEMBLY INSTALLATION DETAILS AND WINDLOAD COMPLIANCE ARE REQUIRED. MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS (INCLUDING WARRANTY REQUIREMENTS) SHALL BE INCORPORATED ALONG WITH THE LATEST INDUSTRY STANDARDS AND BEST PRACTICES. ALL FINAL COLOR SELECTIONS OR FINISHES SHALL BE COORDINATED AND VERIFIED WITH THE OWNER AND ARCHITECT PRIOR TO ORDERING (TYPICAL).
- I. WATERPROOFING, VAPOR BARRIERS, WATERSTOP, AIR SEALS,, ETC. SHALL BE AS INDICATED IN THE SPECIFICATIONS AND AS PER MANUFACTURER AND INDUSTRY STANDARDS.
- J. CONTRACTOR TO PROVIDE ALL REQUIRED FIRE BLOCKING AS REQUIRED BY CODE.
- K. CONTRACTOR TO TAKE ALL PRECAUTIONS TO PREVENT MOLD FROM GROWING IN OR ON THE BUILDING.

 DO NOT USE MATERIALS THAT HAVE MOLD ON THEM FOR CONSTRUCTION, CLOSE UP BUILDING EACH

 NIGHT TO KEEP WATER OUT, DO NOT INSTALL A/C DUCTS UNTIL BUILDING IS DRIED IN AND TAKE ALL

 OTHER POSSIBLE EFFORTS TO PREVENT MOLD FROM GROWING.
- L. WHEN WORKING WITHIN OCCUPIED OR PARTIALLY OCCUPIED BUILDINGS IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE SAFE ACCESS AND TO MAINTAIN IN OPERATION ALL FEATURES OF EXISTING LIFE SAFETY SYSTEMS INCLUDING ALARMS, DETECTORS, LIGHTING AND EXIT WAYS THROUGHOUT THE COURSE OF CONSTRUCTION.
- M. IF IN THE EVENT OF CONFLICTING, OR OVERLAPPING REQUIREMENTS IN ANY AREA OF THE PROPOSED DOCUMENTS, TECHNICAL SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT CONDITION SHALL BE PROPOSED AND CONSTRUCTED.

DIVISION 2 - SITE AND CIVIL WORK

02250 - DEMOLITION SHALL INCLUDE THE REMOVAL OF ALL ITEMS AS INDICATED ON THE DRAWINGS, AS WELL AS INCIDENTAL ITEMS NECESSARY FOR NEW WORK TO PROGRESS. ALL WORK SHALL BE DONE IN A WORKMAN LIKE MANNER WITH MINIMAL DISTURBANCE TO EXISTING TO REMAIN; SEE STRUCTURAL SPECIFICATIONS FOR TEMPORARY SHORING AND BRACING. ALL UNWANTED MATERIAL TO BE REMOVED FROM THE SITE AND PROPERLY \DISPOSED OF. UNLESS NOTED OTHERWISE, PATCH ALL AREAS TO REMAIN TO MATCH EXISTING IN AREAS DAMAGED BY DEMOLITION.

02361 - TERMITE CONTROL: PROVIDE SOIL TREATMENT FOR TERMITE CONTROL AT SLABS ON GRADE INCLUDING FOUNDATIONS AND SLAB PENETRATIONS, IF ANY. FORMULATE AND APPLY TERMICIDES, AND LABEL WITH A FEDERAL

REGISTRATION NUMBER, TO COMPLY WITH EPA REGULATIONS AND AUTHORITIES HAVING JURISDICTION. USE ONLY SOIL TREATMENT SOLUTIONS NOT HARMFUL TO PLANTS. APPLY AT LABEL VOLUME AND RATE PER EPA- REGISTERED LABEL WITH APPLICATION BY A LICENSED PEST CONTROL OPERATOR. PROVIDE A SOIL TREATMENT APPLICATION REPORT FOR OWNERS RECORD AND USE.

<u>02855 - UNDERGROUND UTILITIES</u> - CONTRACTOR SHALL INCLUDE IN HIS WORK ALL UNDERGROUND (AND ABOVE) UTILITY WORK FOR ALL SYSTEMS TO MAKE A COMPLETE SYSTEM FROM BUILDINGS TO STREET HOOK-UPS AS REQUIRED TO COMPLETE THE JOB.

DIVISION 3 - CONCRETE (SEE STRUCTURAL DRAWINGS)

DIVISION 4 - MASONRY (SEE STRUCTURAL DRAWINGS)

DIVISION 5 - METALS (SEE STRUCTURAL DRAWINGS)
DIVISION 6 - WOOD AND PLASTICS

06300 - FINISH CARPENTRY SHALL INCLUDE TRIM, FRAMES, PANELING AND CABINETRY. PROFILES AND PLASTIC LAMINATE ARE TO BE AS SELECTED OR NOTED ON THE DRAWINGS. CABINETS SHALL BE OF A CUSTOM OR PREMIUM GRADES AS NOTED OR DETERMINED BY THE OWNER. USE OF PARTICLE OR PRESS BOARD SHALL BE PRECLUDED. ALL CABINETS TO BE FORMALDEHYDE FREE. ALL TRIM, FRAMING, AND CABINETRY SHALL BE COMPOSED OF FLOOD RESISTANT MATERIALS, AS NOTED IN THE DRAWINGS AND APPROVED BY OWNER. ALL WORK SHALL BE BY SKILLED FINISH CARPENTERS.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

<u>07185 - WATERPROOFING - PROVIDE WATERSTOP XP TO FORM A POSITIVE SEAL TO STOP WATER INGRESS THROUGH CAST-IN-PLACE CONCRETE CONSTRUCTION JOINTS AND AROUND PIPE PENETRATIONS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR VERTICAL JOINTS.</u>

O7210 - INSULATION - PROVIDE INSULATION AS SHOWN ON DRAWINGS AND AS FOLLOWS:

A. UN-FACED MINERAL FIBER BLANKET/BATT INSULATION: PROVIDE THERMAL INSULATION PRODUCED BY COMBINING MINERAL FIBERS OF TYPE DESCRIBED BELOW WITH THERMOSETTING RESINS TO COMPLY WITH ASTM C 665 FOR TYPE III; CLASS A (BLANKETS WITH MEMBRANE FACING FLAME SPREAD OF

OR LESS), AND AS FOLLOWS:

1. MINERAL FIBER TYPE: FIBERS MANUFACTURED FROM GLASS.

VALUES OF 25 AND 50, RESPECTIVELY.

SURFACE BURNING CHARACTERISTICS: MAX. FLAME SPREAD AND SMOKE DEVELOPED

B. <u>POLYISOCYANURATE BOARD INSULATION:</u> PROVIDE UN-FACED SEMI-VAPOR PERMEABLE RIGID, CELLULAR THERMAL INSULATION WITH GLASS-FIBER-REINFORCED POLYISOCYANURATE CLOSED-CELL FOAM CORE. (ALUMINUM FOIL FACING LAMINATED TO BOTH SIDES FOR INSULATION UNDER FLOOR ONLY, DO NOT USE FOIL FACING FOR WALL INSULATION), COMPLYING WITH FS HH-1-1972/1, CLASS 2; AGED R- VALUES OF 8 AND 7.2 AT 40 AND 75 DEG. F. (4.4. AND 23.9 DEG. C), RESPECTIVELY; AND AS FOLLOWS:

1. SURFACE BURNING CHARACTERISTICS: MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED VALUES OF 25 AND 50; RESPECTIVELY.

2. THICKNESS 1" FOR SPECIFICATION CRITERIA (SEE DRAWINGS FOR REQUIRED THICKNESS AT EACH LOCATION). COMPLY WITH MANUFACTURE'S RECOMMENDATIONS SPECIFICATION FOR

INSTALLATION. SEAL ALL JOINTS AS REQUIRED.

C. ALL INSULATION SHALL BE FORMALIDEHYDE FREE.

<u>07270- AIR BARRIERS AND SEALS GENERAL REQUIREMENTS.</u> THE THERMAL ENVELOPE OF THE BUILDING SHALL COMPLY SHALL COMPLY WITH FBC, 2017. A CONTINUOUS AIR BARRIER SHALL BE PROVIDED FOR THE FOLLOWING COMPONENTS:

A. <u>AIR BARRIER AND THERMAL BARRIER:</u> A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN THE BUILDING ENVELOPE. EXTERIOR THERMAL ENVELOPE CONTAINS A CONTINUOUS AIR BARRIER. BREAKS OR JOINTS IN THE AIR BARRIER SHALL BE SEALED. AIR PERMEABLE INSULATION SHALL NOT BE USED AS A SEALING MATERIAL.

- B. WALLS: CORNERS AND HEADERS SHALL BE INSULATED AND THE JUNCTION OF THE FOUNDATION AND SILL PLATE SHALL BE SEALED. THE JUNCTION OF THE TOP PLATE AND TOP OF EXTERIOR WALLS SHALL BE SEALED. EXTERIOR THERMAL ENVELOPE INSULATION FOR FRAMED WALLS SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH THE AIR BARRIER.
- C. WINDOWS AND DOORS: THE SPACE BETWEEN WINDOW/DOOR JAMBS AND FRAMING AND SKYLIGHTS AND
- D. RIM JOISTS: RIM JOISTS SHALL BE INSULATED AND INCLUDE THE AIR BARRIER.
- E. NARROW CAVITIES: BATTS IN NARROW CAVITIES SHALL BE CUT TO FIT, OR NARROW CAVITIES SHALL BE FILLED BY INSULATION THAT ON INSTALLATION READILY CONFORMS TO THE AVAILABLE CAVITY SPACE.
 F. PLUMBING AND WIRING: BATT INSULATION SHALL BE CUT NEATLY TO FIT AROUND WIRING AND PLUMBING IN EXTERIOR WALLS, OR INSULATION THAT ON INSTALLATION READILY CONFORMS TO AVAILABLE SPACE SHALL
- ELECTRICAL/ PHONE BOX ON EXTERIOR WALLS: THE AIR BARRIER SHALL BE INSTALLED BEHIND ELECTRICAL OR COMMUNICATION BOXES OR AIR SEALED BOXES SHALL BE INSTALLED.

07920 - SEALANTS

EXTEND BEHIND PIPING AND WIRING.

- A. SILICONIZED ACRYLIC CAULK 25 YEARS, PAINTABLE, NON-STAINING, MILDEW RESISTANT. FOR INTERIOR AND EXTERIOR USE, WOOD AND MASONRY, AS A FILLER FOR CRACKS VOIDS AND HOLES IN PREPARATION FOR PAINT OR OTHER FINISH. SEE EXISTING WOOD PREPARATION.
- B. POLYSEAMSEAL ALL PURPOSE ADHESIVE CAULK, PAINTABLE, NON-STAINING, MILDEW RESISTANT. FOR INTERIOR AND EXTERIOR USE AS A FILLER AND JOINT SEAL AT TILE, TUB AND COUNTERS.
- C. SILICONE RUBBER SEALANT FSTT-S-001543, CLASS A, ONE PART NON-SAG LOW MODULES SILICONE RUBBER SEALANT. FOR INTERIOR AND EXTERIOR USE IN WORKING JOINTS WHERE SOME MOVEMENT IS ANTICIPATED, WOOD, MASONRY, METAL AND GLASS.

 PROVIDE BACKER ROD DEPTH CONTROL IN ALL JOINTS IN EXCESS OF 1/4"
- D. ALL INTERIOR ARCHITECTURAL CAULKS AND SEALANTS TO HAVE A VOC LIMIT OF 250 G/L.

 DIVISION 8 DOOR AND WINDOWS

DOORS AND WINDOWS SHALL BE PROVIDED WITH STORM PROTECTION AND WIND PRESSURES REQUIRED BY CODE, EITHER BY DESIGN OF EA. INDIVIDUAL UNIT TO WITHSTAND REQ. LOADING OR BY MECHANICAL EXTERNAL DEVICE. CONTRACTOR TO COORD WITH OWNER/ARCHITECT PRIOR TO BIDDING. UNLESS OTHERWISE NOTED, PLACE WINDOWS AND DOORS FLUSHED TO THE INSIDE FACE OF THE WALL AND ADD REQUIRED TRIM AND SILL TO OUTSIDE

08100 - DOORS AND WINDOWS SHALL BE MANUFACTURED UNITS DESIGNED AND INSTALLED TO ALLOW A MAXIMUM OF 0.5 CFM INFILTRATION PER LINEAR FOOT OF OPERABLE SASH CRACK AND A MAXIMUM 0.5 CFM PER SQ.FT.OF EXTERIOR DOOR AREA. UNITS SHALL BE GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.

08520 - ALUMINUM WINDOWS SHALL BE MANUFACTURED UNITS OF TYPE AND NOMINAL SIZE INDICATED WITH FACTORY PAINTED FINISH. PROVIDE IMPACT RESISTANT GLASS AND MULLIONS WHEN SHOWN. ALL HARDWARE TO BE SALT RESISTANT. PROVIDE SCREENS FOR ALL WINDOWS AND SLIDING DOORS. PROVIDE N.O.A.'S INDICATING INSTALLATION DETAILS AND COMPLIANCE WITH PROJECT WIND LOADING REQUIREMENTS.

08530 - ALUMINUM STOREFRONT PROVIDE A COMPLETED PRE-ENGINEERED, PRE-FINISHED ALUMINUM STORE FRONT SYSTEM, INCLUDING IMPACT RESISTANT LOW E-GLASS, ALUMINUM FRAMED SYSTEMS, INCLUDING ANCHORAGE, CAPABLE OF WITHSTANDING ALL REQUIRED LOADS INCLUDING WIND, IMPACT (LARGE AND SMALL MISSILE) AND THERMAL MOVEMENTS. PROVIDE FULL SHOP DRAWINGS, SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER, SHOWING ALL UNIT SIZES AND SHAPE, DETAILS OF ALL SECTION PROFILES AND N.O.A. #S OF SYSTEMS. PROVIDE MANUFACTURERS 10 YEARS WARRANTY. BASIS OF DESIGN PRODUCTS ARE AS MANUF. BY VISTAWALL OR EQUAL. PREFINISHED ORGANIC COATING: 3 COAT, THERMOCURED SYSTEM, INHIBITIVE PRIMER, FLUOROPOLYMER COLORCOAT AND CLEAR FLUOROPOLYMER TOP COAT.

08710 - HARDWARE: FURNISH AND INSTALL COMPLETE HARDWARE FOR EACH CONDITION AS MANUFACTURED BY SCHLAGE; YALE OR APPROVED EQUAL. ANSI GRADE 1 OR BETTER FOR COMMERCIAL USE. FINISH AND STYLE TO BE SELECTED BY OWNER IN ACCORDANCE WITH MONROE COUNTY SCHOOL DISTRICT SPECIFICATIONS.. ALL EXTERIOR INSTALLATIONS TO BE SALT RESISTANT AND SUITABLE FOR USE IN A COASTAL SALT WATER ENVIRONMENT.

08810 - GLASS AND GLAZING PROVIDE IMPACT RESISTANT OF TYPE REQUIRED BY CODE FOR SIZE AND LOCATION CALLED FOR. GLAZING SHALL BE GASKETED OR OTHERWISE SEALED. PROVIDE SAFETY GLASS WHERE REQUIRED BY CODE, AND WHERE SHOWN ON DRAWINGS. ALL COMMERCIAL STOREFRONT TO BE TEMPERED SAFETY GLASS AND BE OF THICKNESS AS SHOWN ON DRAWING AND REQUIRED BY CODE. ALL GLASS SHALL HAVE A LOW E COATING AND MEET SHGC REQUIREMENTS.

<u>09220- STUCCO</u> - COMPLY WITH ASTM C 926 FOR PORTLAND CEMENT BASE AND FINISH COAT MIXES USING PORTLAND CEMENT - ASTM C 150, MASONRY CEMENT, LIME - ASTM C 206, AND SAND ASTM C 897.

PROVIDE MIN. OF THREE COAT SYSTEM W/SCRATCH COAT, BROWN COAT, AND FINISH COAT. FINISH COAT SHALL CONSIST OF 1 PART PORTLAND CEMENT, 1-1/2 TO 2 PARTS LIME, 3 PARTS SAND. ADDITIONAL BASE LAYERS MAY BE APPLIED TO ACHIEVE DESIRED THICKNESS OVER EXPANDED METAL GALVANIZED LATH. PROVIDE CONTROL JOINTS @ MAX. 12' TO 16' VERTICALLY AND HORIZONTALLY, CORNERS OF WALL PENETRATIONS (COORDINATE WITH ARCHITECT), AND AT ALL SUBSTRATE EXP. JOINTS OR CHANGE OF MATERIALS. PROVIDE ACCESSORIES OF HIGH IMPACT POLY VINYL CHLORIDE, TO INCLUDE STOPS CASING BEADS, ONE AND TWO PIECE CONTROL JOINTS (TWO PIECE WHERE MOVEMENT IS REQUIRED) AND CORNER BEAD. EXPANDED METAL GALVANIZED LATH OVER A MEMBRANE AIR, MOISTURE BARRIER SHALL BE PROVIDED OVER ALL NON MASONRY SUBSTRATES. STUCCO FINISH SHALL GO ON ALL CONCRETE OR MASONRY EXTERIOR SURFACES UNLESS OTHERWISE NOTED TO BE SKIM COAT STUCCO OR JUST PAINTED.

- O9260 GYPSUM DRYWALL: PROVIDE GYPSUM DRYWALL SHOWN ON DRAWING AND AS FOLLOWS:

 A. GYPSUM BOARD: PROVIDE 5/8 INCHES THICKNESS (UNLESS OTHERWISE INDICATED) TO COMPLY WITH ASTM C 840 AND ASTM C 36. USE TYPE X FOR FIRE-RESISTANCE-RATED ASSEMBLES. PROVIDE TAPERED EDGES. USE WATER RESISTANT GYPSUM BOARD (ASTM C 630) WHERE INDICATED AND FOR ALL AREAS SUBJECT TO MOISTURE INCLUDING ALL TOILET AND BATHROOM WALLS AND CEILINGS, JANITOR ROOM WALLS AND CEILINGS AND THE WET WALL OF A KITCHEN. PROVIDE GALVANIZED METAL TRIM ACCESSORIES COMPLYING TO ASTM C 1047. PROVIDE TAPE AND THREE COATS SPACKLE, SCREW GYPSUM BOARD TO METAL FRAMING.
- B. AT FIRE RATED WALL ASSEMBLIES-REQUIRED LAYERS (TYPE X) SHALL BE INSTALLED CONTINUOUS PAST ANY INTERSECTING PARTITIONS. SHEET INSTALLATION, LAYERING, PENETRATIONS, TREATMENT OF RECESSED ELECTRICAL BOXES, AND EXPANDABLE FIRE CAULK TO DECKS ABOVE AND BELOW, ETC. SHALL BE IN ACCORDANCE WITH ASSEMBLY GUIDELINES.
- C. PENETRATIONS OF FIRE RATED WALL AND FLOOR ASSEMBLIES, BY PIPES OR CONDUCTS, SHALL BE SEALED USING PRODUCTS BY 'RECTOR SEAL' OR 'HILTI' OR EQUAL. AT PENETRATIONS LESS THAN 2" NOMINAL PROVIDE 'BIOSTOP' OR 'FIRESTOP' CAULKING PER MANUFACTURER RECOMMENDATION. AT PENETRATION LARGER THAN 2" NOMINAL PROVIDE FIRE COLLARS PER MANUFACTURES RECOMMENDATIONS. THE ANGLE OF PENETRATIONS SHALL NOT EXCEED 45°. MULTIPLE LINES SHALL NOT PENETRATE A SINGLE OPENING UNLESS SPECIALLY TAPED AND SEALED PER MANUFACTURERS REQUIREMENTS. FIRE SEALS ASSEMBLIES SHALL BE U.L. LISTED, OR SUBMITTED BY THE MANUFACTURER FOR SPECIFIC SITE CONDITIONS AS A "TECHNICAL JUDGMENT" SUBJECT TO

09900 - PAINTING - THIS SECTION INCLUDES SURFACE PREPARATION, PAINTING, AND FINISHING OF EXPOSED INTERIOR AND EXTERIOR ITEMS AND SURFACES. SURFACE PREPARATION, PRIMING, AND FINISH COATS SPECIFIED IN THIS SECTION ARE IN ADDITION TO SHOP PRIMING AND SURFACE TREATMENT SPECIFIED UNDER OTHER SECTIONS.

- A. PAINT EXPOSED SURFACES WHETHER OR NOT COLORS ARE DESIGNATED IN "SCHEDULES", EXCEPT WHERE A SURFACE OR MATERIAL IS SPECIFICALLY INDICATED NOT TO BE PAINTED OR IS TO REMAIN NATURAL. WHERE AN ITEM OR SURFACE IS NOT SPECIFICALLY MENTIONED, PAINT THE SAME AS SIMILAR ADJACENT MATERIALS OR SURFACES. IF COLOR OR FINISH IS NOT DESIGNATED, THE ARCHITECT WILL SELECT FROM STANDARD COLORS OR FINISHES AVAILABLE.
- PAINTING INCLUDES FIELD PAINTING EXPOSED BARE AND COVERED PIPES AND DUCTS
 (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON WORK, AND PRIMED METAL
- SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT.

 2. PAINTING IS NOT REQUIRED ON PREFINISHED ITEMS, FINISHED METAL SURFACES, CONCEALED SURFACES, OPERATING PARTS, AND LABELS.
- 3. LABELS: DO NOT PAINT OVER UNDERWRITER'S LABORATORIES, FACTORY MUTUAL OR OTHER
 CODE-REQUIRED LABELS OR EQUIPMENT NAME, IDENTIFICATION, PERFORMANCE RATING, OR
- NOMENCLATURE PLATES.

 B. SUBMIT DATA: MANUFACTURER'S TECHNICAL INFORMATION, LABEL ANALYSIS, AND APPLICATION INSTRUCTIONS FOR EACH MATERIAL PROPOSED FOR USE.
- LIST EACH MATERIAL AND CROSS-REFERENCE THE SPECIFIC COATING AND FINISH SYSTEM AND APPLICATION. IDENTIFY EACH MATERIAL BY THE MANUFACTURER'S CATALOG NUMBER AND GENERAL CLASSIFICATION.
- 2. SAMPLES FOR INITIAL COLOR SELECTION IN THE FORM OF MANUFACTURER'S COLOR CHARTS.

 THE EXTERIOR WILL HAVE FOUR COLORS MINIMUM, ONE BEING SPECIAL ORDER COLOR. THE INTERIOR WILL HAVE THREE COLORS MINIMUM, ONE BEING A SPECIAL ORDER COLOR.
- C. PROVIDE SAMPLES OF EACH COLOR AND MATERIALS TO BE APPLIED, WITH TEXTURE TO SIMULATE
 ACTUAL CONDITIONS, OR REPRESENTATIVE SAMPLES OF ACTUAL SUBSTRATE. DEFINE EACH SEPARATE
 COAT, INCLUDING BLOCK FILLERS AND PRIMERS. USE REPRESENTATIVE COLORS WHEN PREPARING
 SAMPLES FOR REVIEW, RESURMIT LINTURED SHEEN, COLOR, AND TEXTURE ARE ACHIEVED.
- SAMPLES FOR REVIEW. RESUBMIT UNTIL REQUIRED SHEEN, COLOR, AND TEXTURE ARE ACHIEVED.

 1. PROVIDE A LIST OF MATERIAL AND APPLICATION FOR EACH COAT OF EACH SAMPLE. LABEL
 EACH SAMPLE AS TO LOCATION AND APPLICATION.
- D. PAINTS AND COATING USED ON THE INTERIOR OF THE BUILDING (I.E., INSIDE OF THE WEATHER PROOFING SYSTEM AND APPLIED ON SITE) SHALL COMPLY WITH THE FOLLOWING CRITERIA:
- ARCHITECTURAL PAINTS, COATING AND PRIMERS APPLIED TO INTERIOR WALLS AND CEILINGS:

 DO NOT EXCEED THE VOC CONTENT LIMITS ESTABLISHED IN THE GREEN SEAL STANDARD

 GS-11, PAINTS, FIRST EDITION, MAY 20, 1993. PRIMERS MUST MEET THE VOC LIMIT FOR

 NON-FLAT PAINT.
- FLATS: 50 G/L NON-FLATS: 100 G/L
- 2. ANTI-CORROSIVE AND ANTI-RUST PAINTS APPLIED TO INTERIOR FERROUS SUBSTRATES: DO NOT EXCEED THE VOC CONTENT LIMIT OF 250 G/L ESTABLISHED IN GREEN SEAL STANDARD
- GS-03, ANTI-CORROSIVE PAINTS, SECOND EDITION, JANUARY 7, 1997.

 3. CLEAR WOOD FINISHES, FLOOR COATINGS, STAINS, PRIMERS, AND SHELLACS APPLIED TO INTERIOR ELEMENTS MUST NO EXCEED THE VOC CONTENT LIMITS ESTABLISHED IN SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1113, ARCHITECTURAL COATINGS, RULES IN EFFECT ON JANUARY 1, 2004.

 4. SALT SPRAY RESISTANCE TESTED IN ACCORDANCE WITH ASTM B117: NO UNDERCUTTING, RUSTING,
- OR BLISTERING AFTER 500 HOURS IN 5 PERCENT SALT SPRAY AT 95 DEGREES F AND 95 PERCENT RELATIVE HUMIDITY AND AFTER 1000 HOURS LESS THAN [3/16 INCH] [5 MM] UNDERCUTTING.

 5. WEATHERABILITY TESTED IN ACCORDANCE WITH ASTM D822: NO FILM FAILURE AND 88 PERCENT GLOSS RETENTION AFTER 1 YEAR EXPOSURE IN SOUTH FLORIDA WITH TEST PANELS TILTED AT 45 DEGREES.

 6. FIRM WITH MANUFACTURING AND DELIVERY CAPACITY REQUIRED FOR THE PROJECT, SHALL HAVE
- SYSTEMS, AND TECHNIQUES AS HEREIN SPECIFIED.

 7. SUPPLIER MUST OWN AND OPERATE ITS OWN PAINTING AND FINISHING FACILITY TO ASSURE SINGLE SOURCE RESPONSIBILITY AND QUALITY CONTROL.

SUCCESSFULLY COMPLETED AT LEAST TEN PROJECTS WITHIN THE PAST FIVE YEARS, UTILIZING FINISH

8. ALL MATERIALS SHALL BE PROTECTED DURING FINISHING, SHIPMENT, SITE STORAGE AND ERECTION TO PREVENT DAMAGE TO THE FINISHED WORK FROM OTHER TRADES. STORE MATERIALS INSIDE A WELL-VENTILATED AREA, AWAY FROM UNCURED CONCRETE AND MASONRY, AND PROTECTED FROM THE WEATHER, MOISTURE, SOILING, ABRASION, EXTREME TEMPERATURES, AND HUMIDITY.

WILLIAM P. HORN ARCHITECT, P.A.

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LICENSE NO. AA 0003040

BIG PINE ACADEMY BIG PINE, FLORIDA

SEAL

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WILLIAM P. HORN

DATE

11-09-18 SD 01-20-19 DD 02-21-19 PRELIM. REVIEW 03-25-19 PRICING REVIEW

04-17-19 PERMIT SUBMIT

REVISIONS

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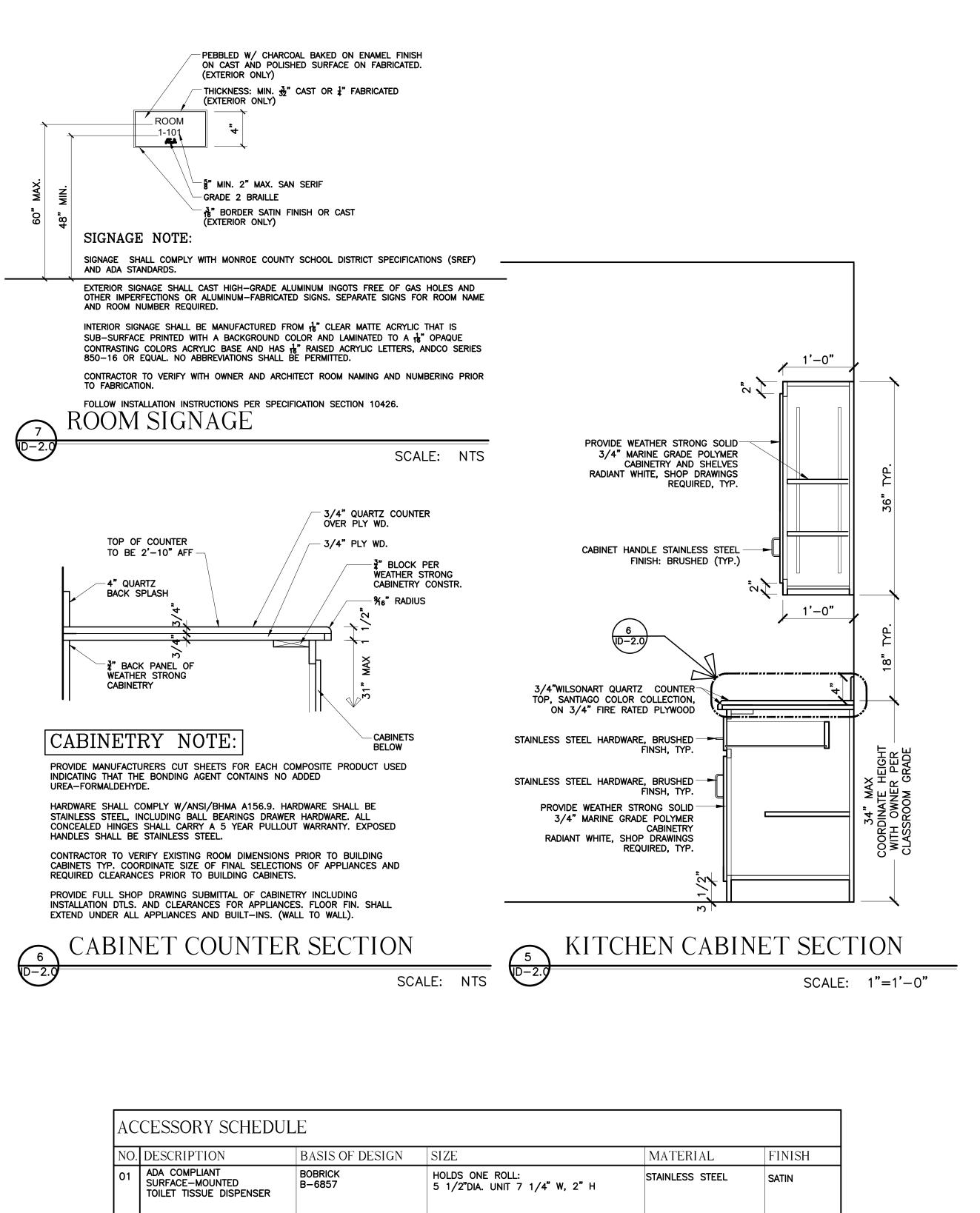
PROJECT NUMBER

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ARCHITECT, P.A. PROVIDE PAINT AS SHOWN WITH ALL MATERIALS BY BENJAMIN MOORE OR EQUAL. COLORS AND FINISH SHALL BE 915 EATON ST. SELECTED BY OWNER: KEY WEST, PRIMER:SPOT PRIME KNOTS & SURROUNDING AREA W/BIN SCHULAC (1 COAT) FRESH START 100% ACRYLIC SUPERIOR PRIMER #046, VOC = 44 G/L FLORIDA FINISH:.....MOORGARD 100% ACRYLIC LOW LUSTRE HOUSE PAINT # N103, VOC = 50 G/L 33040 (2 COATS) **EXTERIOR FIBER CEMENTITIOUS SIDING AND TRIM:** TEL. (305) 296-8302 FINISH:.....MOOREGARD 100% ACRYLIC LOW LUSTRE HOUSE PAINT #N103 OR MOORLIFE FAX (305) 296-1033 100% ACRYLIC FLAT HOUSE PAINT #N105 VOC = 50 G/L (2 COATS) LICENSE NO. EXTERIOR STUCCO OR MASONRY: (TO BE PAINTED) AA 0003040 PRIMER:.....SUPER SPEC MASONRY INTERIOR/EXTERIOR 100% ACRYLIC MASONRY SEALER #N066 VOC = 81 G/L . USE MOORE'S HIGH BUILD ACRYLIC MASONRY PRIMER #W068 VOC= 97 G/L FOR VERY POROUS CONDITIONS. FINISH:.....(2 COATS) REGAL SELECT FLAT FINISH #N400 OR REGAL SELECT SOFT GLOSS FINISH #N402 VOC = 50 G/L. EXTERIOR WATERPROOF PAINT ON EXTERIOR STUCCO: PRIMER:.....CORONADO TEXCRETE WB ACRYLIC DIRECT TO MASONRY WATER PROOFER #3194-1, SMOOTH FINISH VOC = 100 G/L. (1 COAT) FINISH:.....CORONADO TEXCRETE WB ACRYLIC DIRECT TO MASONRY WATER PROOFER #3192-1 OR 3194-1 VOC = 100 G/L. (2 COATS) PRIMER:.....FRESH START 100% ACRYLIC SUPERIOR PRIMER #046 VOC = 44 G/L. (1 COAT) FINISH:.....REGAL SELECT SEMI- GLOSS FINISH #551 VOC = 38 G/L (2 COATS) BIG PINE ACADEMY PORCH AND STAIR TREADS: (WOOD) PRIMER:....ALKYD URETHANE REINFORCED BIG PINE, FLORIDA PORCH FLOOR ENAMEL (THIN FIRST COAT ON BARE WOOD) ADD SKIDTEX TO PRIME COAT FINISH:.....ALKYD URETHANE REINFORCED PORCH FLOOR ENAMEL GALVANIZED METAL AND ALUMINUM (NON FERROUS METAL) CLEAN SURFACES WITH SUPER SPEC HP OIL AND GREASE EMULSIFIER (P83) TO REMOVE CONTAMINANTS PRIMER:.....ONE COAT SUPER SPEC HP D.T.M. ACRYLIC SEMI-GLOSS #WP29 VOC = 45 G/L FINISH:.....ONE COAT SUPER SPEC HP D.T.M. ACRYLIC SEMI-GLOSS #WP29 VOC = 45 G/L GYPSUM BOARD: PRIMER:....FRESH START 100 % ACRYLIC SUPERIOR PRIMER #046 VOC = 44 G/L. FINISH:.....2 COATS REGAL. SELECT MATTE FINISH #548 OR FLAT #547, VOC = 12G/L CEILINGS......WATERBORNE CEILING PAINT #508, VOC = 50 G/L (2 COATS) STRUCTURAL STEEL AND IRON: (FERROUS METAL) PRIMER AND FINISH...2 COATS SUPER SPEC HP D.T.M. ACRYLIC SEMI-GLOSS #WP29, VOC = 45 G/L NATURAL-FINISH WOODWORK:BENWOOD STAYS CLEAR ACRYLIC POLYURETHANE HIGH GLOSS # 422, VOC = 270 G/L (1 COAT) FINISH..... BENWOOD STAYS CLEAR ACRYLIC POLYURETHANE HIGH GLOSS # 422, VOC = 270 G/L (2 COATS) OR BENWOOD INTERIOR WOOD FINISHES WATERBORNE STAIN #205, VOC = 231 G/L (1 COAT) PROTECTIVE COATING: USE AS A CLEAR PROTECTIVE COATING OVER PAINTED SURFACES. SUPER SPEC HP WATERBORNE URETHANE, GLOSS ENAMEL #P73, VOC =221 G/L OR SEMI-GLOSS #P77, VOC = 247 G/L. 09940 - EXISTING WOOD PREPARATION: CONTRACTOR TO REMOVE AND REPLACE ALL ROTTED OR DAMAGED WOOD WITH LIGHT GAUGE METAL FRAMING. SPLICE IN NEW BOARDS AS INCONSPICUOUSLY AS POSSIBLE AND STAGGER THESE DRAWINGS MAY JOINTS AS REQUIRED. SCRAPE ALL LOOSE PAINT OF EXISTING WOOD SURFACES, SAND SMOOTH PRIOR TO PRIME NOT BE REPRODUCED COAT PAINT (SEE PAINT SPECIFICATION). AFTER PRIME COAT, CAULK ALL SEAMS, JOINTS AND HOLES AS REQUIRED WITHOUT WRITTEN PRIOR TO FINISH COATS (SEE SEALANT SPECIFICATIONS). AUTHORIZATION BY WILLIAM P. HORN **DIVISION 10 - SPECIALTIES** 10522 - FIRE EXTINGUISHERS: PROVIDE FIRE EXTINGUISHER AND CABINET OR WALL MOUNTING BRACKET, AS MANUFACTURED BY LARSEN'S MANUFACTURING CO. OR EQUAL, FOR EACH LOCATION AND MOUNTING CONDITION DATE INDICATED ON THE DRAWINGS. A. CABINET TO BE SEMI-RECESSED, FABRICATED IN ONE PIECE W/ONE PIECE COMBINATION TRIM 11-09-18 SD AND PERIMETER DOOR FRAME OVERLAPPING SURROUNDING WALL SURFACE. SHOP DRAWING 01-20-19 DD SUBMITTALS ARE REQUIRED FOR APPROVAL, PRIOR TO ANY FABRICATION OR DELIVERY OF MATERIALS. 02-21-19 PRELIM. REVIEW B. EXTINGUISHER TO BE MULTIPURPOSE DRY CHEMICAL TYPE: 03-25-19 PRICING REVIEW UL RATED 4-A: 60-BC, 10-LB. NOMINAL CAPACITY, IN ENAMELED STEEL CONTAINER. 04-17-19 PERMIT SUBMIT C. TO COMPLY WITH ADA WALL PROJECTION GUIDELINES, THE CABINET MUST BE MOUNTED WITH ITS BOTTOM (LEADING EDGE) AT OR BELLOW 27" FROM THE FINISHED FLOOR. 10810 - TOILET ACCESSORIES: (FOR H.C. COMMERCIAL TOILET). PROVIDE TOILET ACCESSORIES BY REVISIONS PER SPECIFICATION OR APPROVED EQUAL. CONTRACTOR TO PROVIDE COMPLETE SYSTEMS INCLUDING ALL ACCESSORIES AND ATTACHMENTS AND ALL BLOCKING AS REQUIRED. ALLOWANCE IS FOR PURCHASE ONLY, LABOR TO INSTALL IS PART OF BASE BID. **DIVISION 11 - EQUIPMENT** 11400 - CONTRACTOR TO COORDINATE WITH OWNER AND OR EQUIPMENT SUPPLIER PRIOR TO BIDDING TO DETERMINE IN WRITING WHAT WILL BE SUPPLIED BY OWNER, EQUIPMENT SUPPLIER, OR CONTRACTOR, AND TO DETERMINE WHAT WILL BE COORDINATED OR INSTALLED BY CONTRACTOR. DRAWN BY 11455 - KITCHEN & BATH CABINETS SHALL BE CUSTOM BUILT CABINETS AS SHOWN OUT OF 3/4" MARINE GRADE E.M.A POLYMER BY WEATHER STRONG BRAND OR EQUAL. **DIVISION 12, 13 & 14 - NOT USED DIVISION 15 - MECHANICAL (SEE MECHANICAL DRAWINGS)** PROJECT NUMBER DIVISION 16 - ELECTRICAL (SEE ELECTRICAL DRAWINGS)

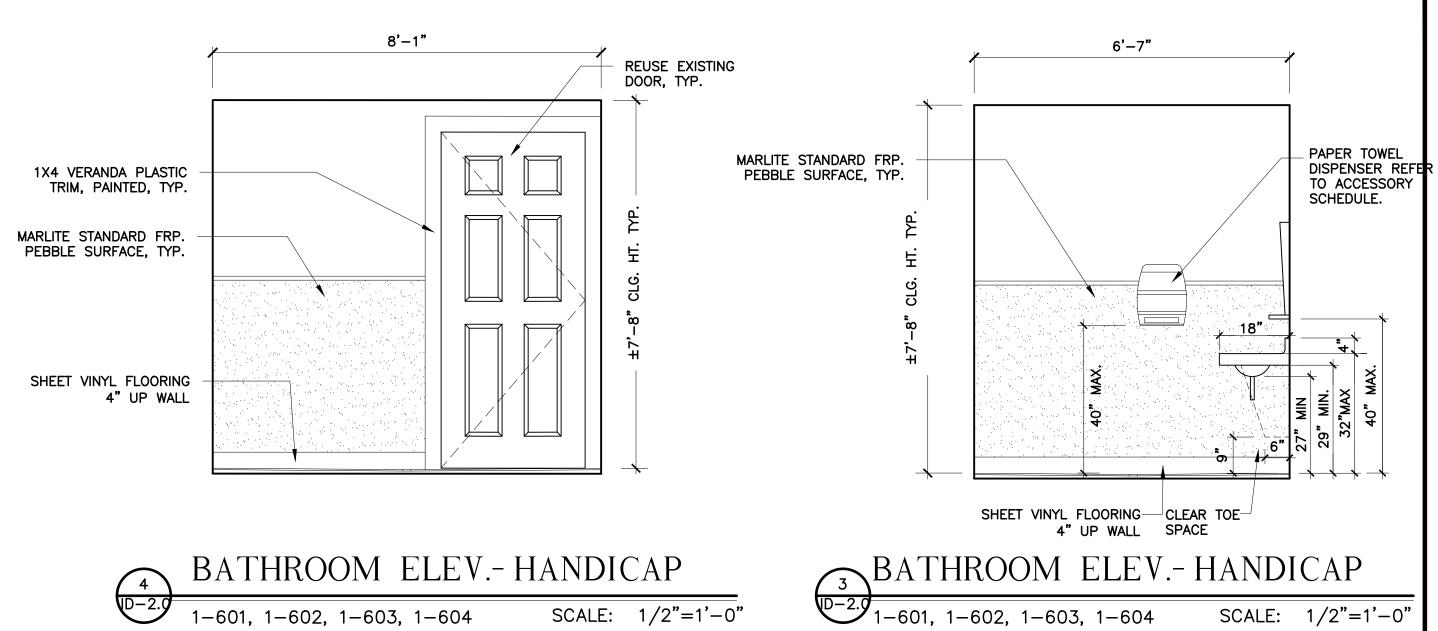
WILLIAM P. HORN

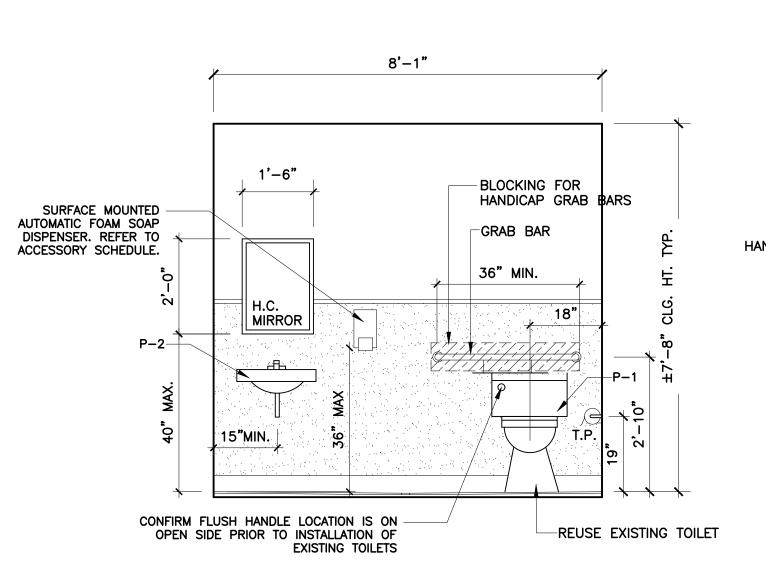
BIG PINE ACADEMY RENOVATION
30220 OVERSEAS HIGHWAY
BIG PINE KEY, FLORIDA 33043



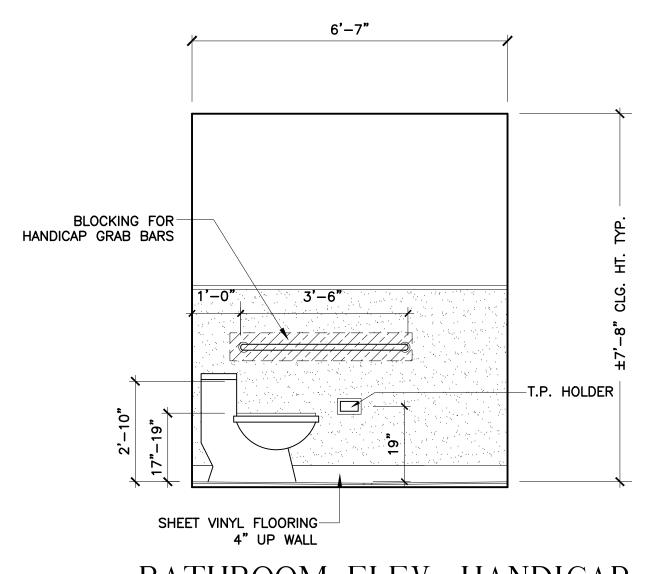
AC	CESSORY SCHEDUL	LE			
NO.	DESCRIPTION	BASIS OF DESIGN	SIZE	MATERIAL	FINISH
01	ADA COMPLIANT SURFACE-MOUNTED TOILET TISSUE DISPENSER	BOBRICK B-6857	HOLDS ONE ROLL: 5 1/2"DIA. UNIT 7 1/4" W, 2" H	STAINLESS STEEL	SATIN
02	ADA COMPLIANT GRAB BARS	BRADLEY: MODEL 812	STAINLESS STEEL 1-1/2" DIA. WITH CONCEALED MOUNTING	STAINLESS STEEL	SAFETY GRIP
03	FIXED ANGLE TILT MIRROR	AMERICAN SPECIALTIES 0535-2436	18W X 24H FOR COMPLIANCE WITH ADA ACCESSIBILITY GUIDELINES, BOTTOM OF REFLECTING SURFACE SHOULD BE INSTALLED 40"	STAINLESS STEEL	BRUSHED
04	SURFACE MOUNTED PAPER TOWEL DISPENSER	BRADLEY MODEL 2494 SENSOR ACTIVATED	12 1/4"W X 15 1/4"H X 9 1/2"D	PLASTIC	TRANSLUCENT
05	SURFACE MOUNTED SOAP DISPENSER	BOBRICK B-818615	CAPACITY: 40-FL OZ	STAINLESS STEEL	BRUSHED

ACCESSORY NOTE: CONTRACTOR TO PROVIDE LISTED BASIS OF DESIGN OR PROVIDE EQUAL IN PERFORMANCE AND FINISH.





1-601, 1-602, 1-603, 1-604



BATHROOM ELEV.- HANDICAP SCALE: 1/2"=1'-0" 1-601, 1-602, 1-603, 1-604

BATHROOM ELEV.- HANDICAP D-2.0 1-601, 1-602, 1-603, 1-604 SCALE: 1/2"=1'-0"

FINISH	SCHEDU	JLE		
ROOM NAME	FLOOR	BASE	WALLS CEILING	REMARKS
	18X18 LVT TILE (COLOR TBD) SLIP RESISTANT SHEET VINYL	VINYL COVE BASE SLIP RESISTANT SHEET VINYL	DURROCK, PLASTER FINISH, PAINTED FRP PEBBLE SURFACE 4'-O" A.F.F. 5/8" TYP X GYP.BDPAINT	
1-101 CLASSROOM A	0	0	%	
1-102 CLASSROOM B			% % O	
1-103 CLASSROOM C				
1-104 CLASSROOM D	0	0		
1-601 RESTROOM	0	0		SEE WALL SECTION FOR FRP ATTACHMENT
1-602 RESTROOM	0	0		SEE WALL SECTION FOR FRP ATTACHMENT
1-603 RESTROOM	0	0		SEE WALL SECTION FOR FRP ATTACHMENT
1-604 RESTROOM	0			SEE WALL SECTION FOR FRP ATTACHMENT

01-20-19 DD 02-21-19 PRELIM. REVIEW 03-25-19 PRICING REVIEW 04-17-19 PERMIT SUBMIT

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BIG PINE ACADEMY

BIG PINE, FLORIDA

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

LICENSE NO.

AA 0003040

KEY WEST,

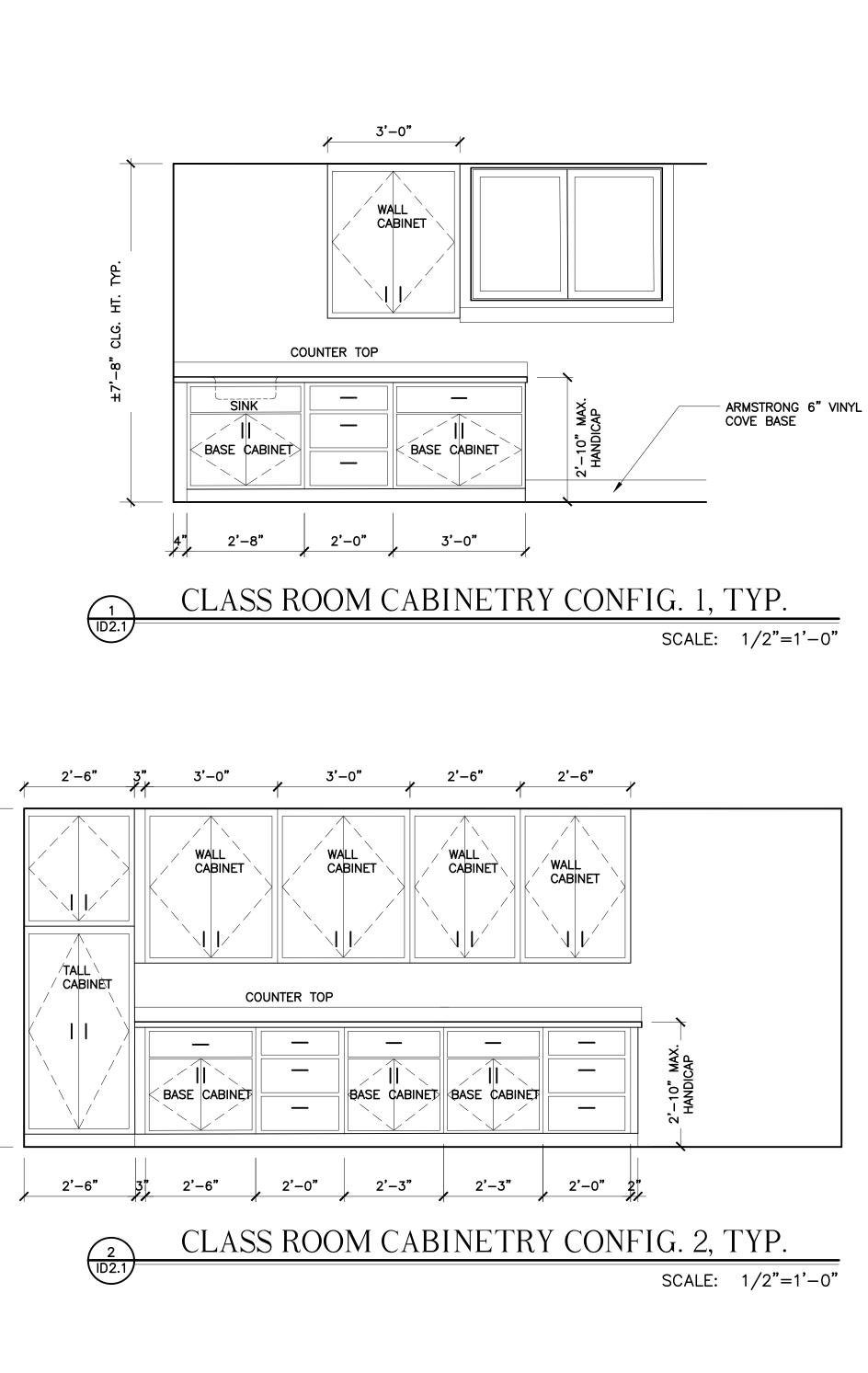
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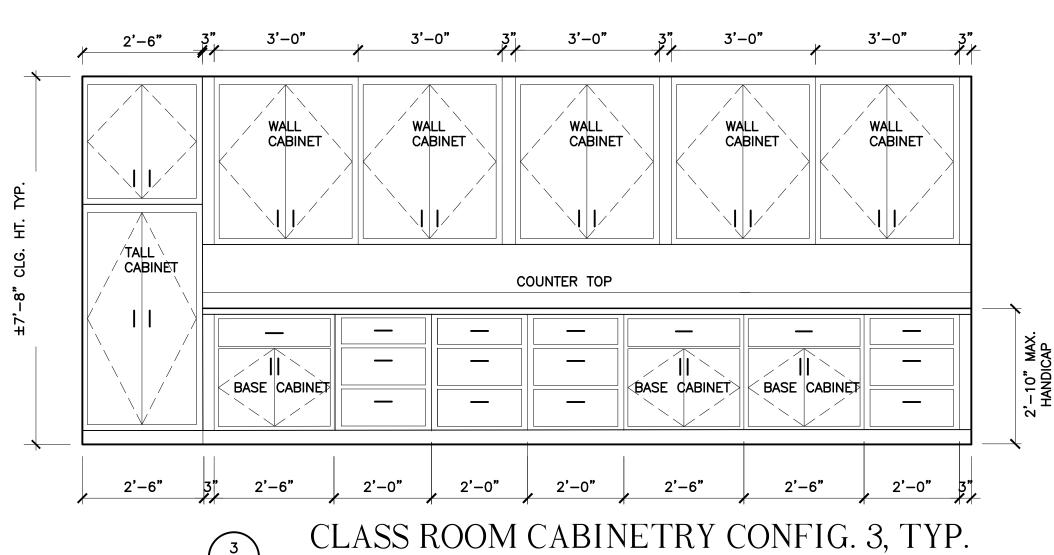
33040

REVISIONS

DRAWN BY E.M.A

PROJEC' NUMBEF 1822





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BIG PINE ACADEMY
BIG PINE, FLORIDA

SEAL

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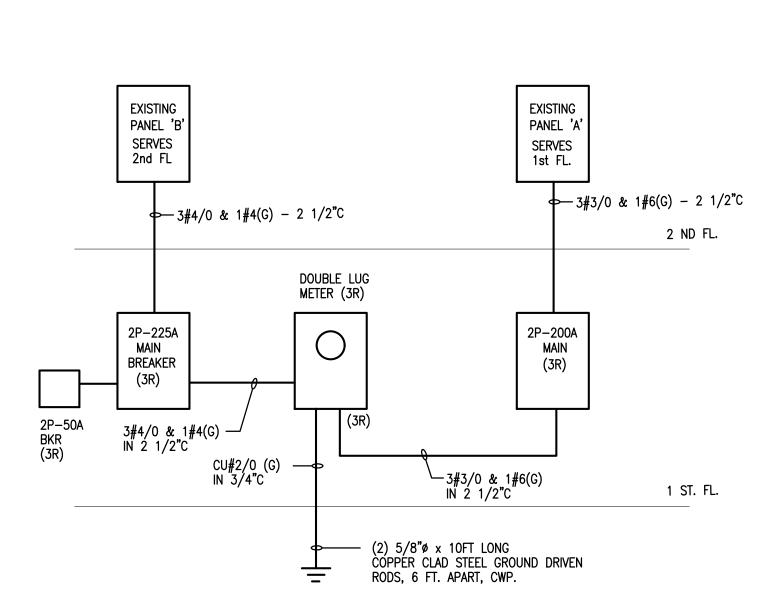
DRAWN BY
E.M.A

PROJECT NUMBER

1822

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

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4,	104	1/2"	12	20	2 /	EXIST. A/C	SYSTEM 3	1	2	SMOKE D		1	20	12	1/2"	100
	-	-	-	-		(*)	*)	3	4	LIGH	TING	1	20	12	1/2"	1,100
4,	104	1/2"	12	20	2 /	EXIST. A/C	SYSTEM 2	5	6	LIGH	TING	1	20	12	1/2"	1,100
	-	-	-	-		('	*)	7	8	LIGH	TING	1	20	12	1/2"	1,100
4,	104	1/2"	12	20	2	EXIST. A/C	SYSTEM 1	9	10	LIGH	TING	1	20	12	1/2"	1,100
	-	-	-	=:		('	*)	11	12	DRINKING	FOUNTAIN	1	20	12	1/2"	1,500
4,	104	1/2"	12	20	2 /	EXIST. A/C	SYSTEM 4	13	14	DRINKING	FOUNTAIN	1	20	12	1/2"	1,500
	-	-	H	-		(')	*)	15	16	PROJE	ECTOR	1	20	12	1/2"	1,200
1,3	350	1/2"	12	20	1	RECEP	TACLES	17	18	PROJE	ECTOR	1	20	12	1/2"	1,200
1,3	350	1/2"	12	20	1	RECEP	TACLES	19	20	PROJE	CTOR	1	20	12	1/2"	1,200
1,3	350	1/2"	12	20	1	RECEP	TACLES	21	22	PROJE	ECTOR	1	20	12	1/2"	1,200
1,	350	1/2"	12	20	1	RECEP.	TACLES	23	24	SPA	ARE	1	20	-	-	1,200
1,:	350	1/2"	12	20	1	RECEP	TACLES	25	26	FIRE A	LARM	1	20	12	1/2"	200
1,3	350	1/2"	12	20	1	RECEP	TACLES	27	28	RECEP	TACLES	1	20	12	1/2"	1,350
		_	-	20	1	SPA	ARE	29	30	RECEP	TACLES	1	20	12	1/2"	1,350
(*)	PRO	VIDE H	ACR TY	PE BRE	AKER											
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ROOF

ELECTRICAL RISER DIAGRAM

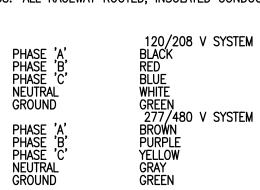
NOTE:

1. MOUNT ALL EQUIPMENT ABOVE FLOOD
ELEVATION (MIN. 9'-0" NGVD ELEVATION)
2. RE-USE DISCONNECTS IF IN GOOD WORKING

GENERAL ELECTRICAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, FLORIDA BUILDING CODE AND OTHER APPLICABLE CODES AND STANDARDS.
- 2. a) THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS AND BOXES REQUIRED TO MAKE A COMPLETE NEAT INSTALLATION IN ACCORDANCE WITH N.E.C. WHEN CONFLICTS ARISE IN LOCATIONS WIRING DEVICES, ELECTRICAL EQUIPMENT, b) DISCONNECTS, PANEL BOARDS, ETC. DUE TO FIELD CONDITION OR IMPROPER FIELD COORDINATION CONTRACTOR SHALL BRING IT TO THE A/E'S ATTENTION AND AT NO EXTRA COST RELOCATE, AND OR EXTEND WITHIN A REASONABLE DISTANCE SUCH ITEM WHICH IS IN CONFLICT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION OF ALL COMPONENTS PRIOR TO ROUGH IN WITH ALL TRADES NO EXTRAS WILL BE ALLOWED FOR FAILURE TO DO SO.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING FIELD CONDITIONS BY VISITING THE SITE PRIOR TO COMMENCING / BIDDING WORK.
- 4. THE CONTRACTOR SHALL SATISFACTORILY REPAIR / REPLACE EQUIPMENT OR PART OF STRUCTURE DAMAGED AS A RESULT OF HIS WORK. SURFACES AND FINISHED AREAS SHALL BE RESTORED TO MATCH ADJACENT AREAS.
- 5. APPROVAL SHALL BE OBTAINED FROM A STRUCTURAL ENGINEER PRIOR TO CUTTING OR DRILLING ANY STRUCTURAL SUPPORT MEMBER.
- 6. ALL DEVICE BOXES SHALL BE INSTALLED FLUSH AND CONDUITS RUN CONCEALED IN FINISHED AREAS EXCEPT AS SPECIFICALLY SHOWN/NOTED OTHERWISE.
- 7. ALL ELECTRICAL EQUIPMENT SHALL BE REMOVED FROM STRUCTURE TO BE REMOVED.
 8. ACCESSIBLE RACEWAYS, WIRES, BOXES, SWITCHES AND OTHER ELECTRICAL ITEMS ASSOCIATED WITH THIS
- WORK SHALL BE REMOVED IF NOT REQUIRED FOR NEW EQUIPMENT TO CONTINUE IN SERVICE.

 9. WIRE SHALL BE REMOVED BACK TO SOURCE FROM INACCESSIBLE RACEWAYS NOT REUSED. INSTALL BLANK PLATES ON FLUSH OUTLETS NOT REUSED. PLATE COLOR SHALL MATCH ADJACENT SURFACE AS NEAR AS POSSIBLE IN FINISHED AREAS.
- 10. MODIFY AND REROUTE EXISTING WIRING AS REQUIRED TO ACCOMPLISH INDICATED WORK AND CONTINUE SERVICE TO LOADS BEYOND AREA IN WHICH WORK IS DONE. CONTRACTOR SHALL RE—USE EXISTING SPARE BRANCH CIRCUIT BREAKER AND/OR EXISTING BRANCH CIRCUITS PRESENTLY SERVING ELECTRICAL DEVICES BEING REMOVED IN AREAS BEING REMODELED. ACTUAL CIRCUIT NUMBERS MAY VARY FROM ACTUAL FIELD CONDITIONS BUT ARE SHOWN TO FACILITATE CIRCUITING LAYOUT
- 11. INSTALL POWER AND CONTROL WIRING AND REQUIRED CONTROL COMPONENTS FOR AIR CONDITIONING SYSTEM AS SHOWN/NOTED ON THESE DRAWINGS AND PER OTHER APPLICABLE DRAWINGS / INSTRUCTIONS. SEE AIR CONDITIONING DRAWING.
- 12. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS DIRECTED BY OWNER.
- 13. ALL WIRING INDICATED AS EXISTING IS BASED ON ORIGINAL CONTRACT DRAWINGS AND IS TO BE VERIFIED BY CONTRACTOR AT JOB SITE.
- 14. MINIMUM WIRE SIZE SHALL BE # 12 THHN / THWN UNLESS OTHERWISE NOTED ON PLANS. CONDUCTORS #6 AND LARGER SHALL BE THW.
- 15. ALL CONDUCTORS SHALL BE COPPER RUN IN METALLIC CONDUIT.
- 16. ALL CONDUCTORS SHALL BE RUN IN CONDUIT (METALLIC TYPE). IF PVC SCHEDULE 40 IS USED FOR UNDERGROUND FEEDERS ONLY, AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH N.E.C. 250—122 MUST BE INSTALLED AND CONDUIT SIZE INCREASED AS REQUIRED.
- 17. ALL MATERIALS SHALL BE U.L. APPROVED.
- 18. NEW TYPEWRITTEN PANEL TALLY SHALL BE FURNISHED AFTER JOB IS COMPLETED.
- 19. ALL BRANCH CIRCUITS SHALL BE PROPERLY PHASE BALANCED.
- 20. CONTRACTOR TO REMOVE AND/OR REPLACE CIRCUIT BREAKERS IN EXISTING PANEL TO OBTAIN AMOUNT REQUIRED AS A MINIMUM PER PANEL SCHEDULE. ALL EXISTING EXCESS BREAKERS, IF ANY, TO REMAIN AS SPARE.
- 21. ALL NON POWER RELATED WIRING IN CEILING AIR CONDITIONING PLENUM RUNNING WITHOUT CONDUIT SHALL BE TEFLON COATED CLASSIFIED FOR USE IN PLENUMS.
- 22. PROVIDE TRAPEZE HANGER AS ASSEMBLE FOR PLENUM COMMUNICATION CABLE WITH 3/8" DIAMETER. THREADED ROD AND CHANNEL ASSEMBLY TO SUPPORT CABLE BUNDLES EVERY 4 FT. O.C. (MAXIMUM CABLES SHALL NOT LIE ON TOP OF CEILING TILE OR LUMINARIES).
- 23. SEE ARCHITECTURAL DRAWING FOR INFORMATION CONCERNING EXISTING CONDITIONS AND COUNTER DETAILS.
- 24. ALL BRANCH CIRCUITS TO HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER N.E.C. 250.122.
- 25. ALL DEVICES IN EXISTING WALLS NOT AFFECTED BY NEW CONSTRUCTION SHALL REMAIN ACTIVE.
- 26. ALL EMPTY CONDUITS TO BE PROVIDED WITH NYLON PULL STRINGS.
- 27. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE UNLESS OTHERWISE NOTED.
- 28. A/C EQUIPMENT WIRING, BREAKER AND FUSE SIZES ARE BASED ON A/C EQUIPMENT SPECIFIED ON CONTRACT DRAWING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WIRING, BREAKER AND FUSES SIZES IN ACCORDANCE WITH A/C EQUIPMENT NAMEPLATE REQUIREMENTS IF DIFFERENT FROM THAT SPECIFIED ON DRAWINGS, AS WELL AS ANY FEEDER CHANGES BEING AFFECTED BY THIS CHANGE CONTRACTOR SHALL MAKE ABOVE MENTIONED CHANGES AT NO EXTRA COST.
- 29. CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER TRADES IN ORDER TO FURNISH AND INSTALL ALL CONTROL WIRING AND RACEWAYS, ALL POWER CONTROL CIRCUIT WIRING AND RACEWAY AS SHOWN ON THE AIR CONDITIONING DRAWING OR SPECIFICATIONS. IF AIR CONDITIONING DRAWING REFER TO MANUFACTURER ALL REQUIREMENT AND INCLUDE ALL RELATED WORK IN HAS CONTACT.
- 30. ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH THE CEILING 30. SYSTEM MANUFACTURER RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
- 31. RISERS ARE DIAGRAMMATIC ONLY. THEY DO NOT SHOW EVERY BEND REQUIRED FOR THE INSTALLATION.
- 32. THIS DRAWING IS A GUIDE FOR THE ELECTRICAL INSTALLATION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
- 33. ALL CABLES SHALL BE RUN WITH OUT SPLICES EXCEPT IF OTHERWISE INDICATED.
- 34. ALL PULL AND JUNCTION BOXES SHALL BE ACCESSIBLE AT ALL TIMES.
- 35. EXACT POINT AND METHODS OF CONNECTION SHALL BE DETERMINED IN FIELD.
- 36. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- 37. ALL LOADS IN EXISTING PANEL BOARDS ARE ESTIMATED.
- 38. ALL RACEWAY ROUTED, INSULATED CONDUCTORS SYSTEM SHALL BE COLOR CODED AS 38. FOLLOWS:



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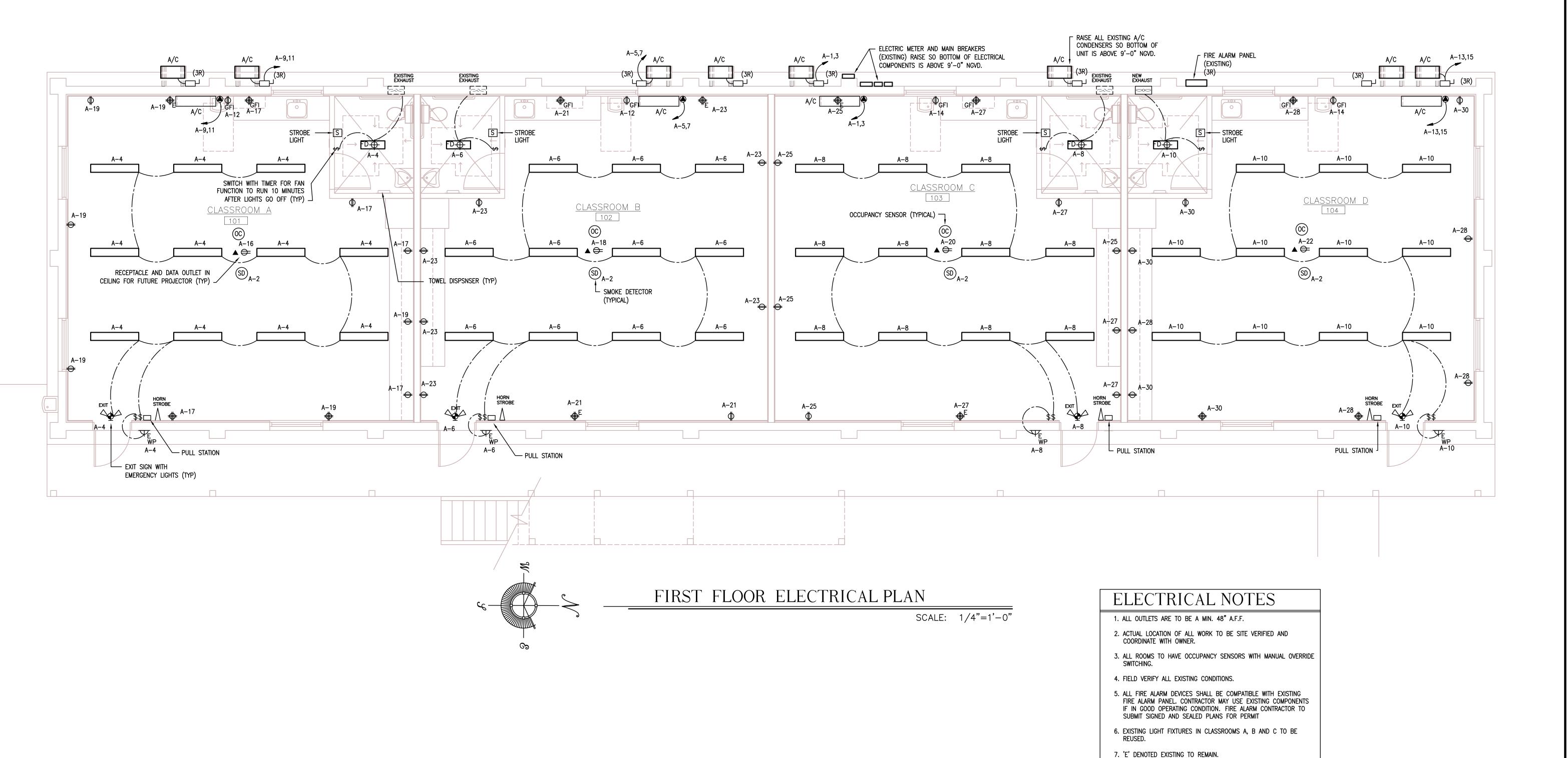
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PROJECT NUMBER

E.M.A

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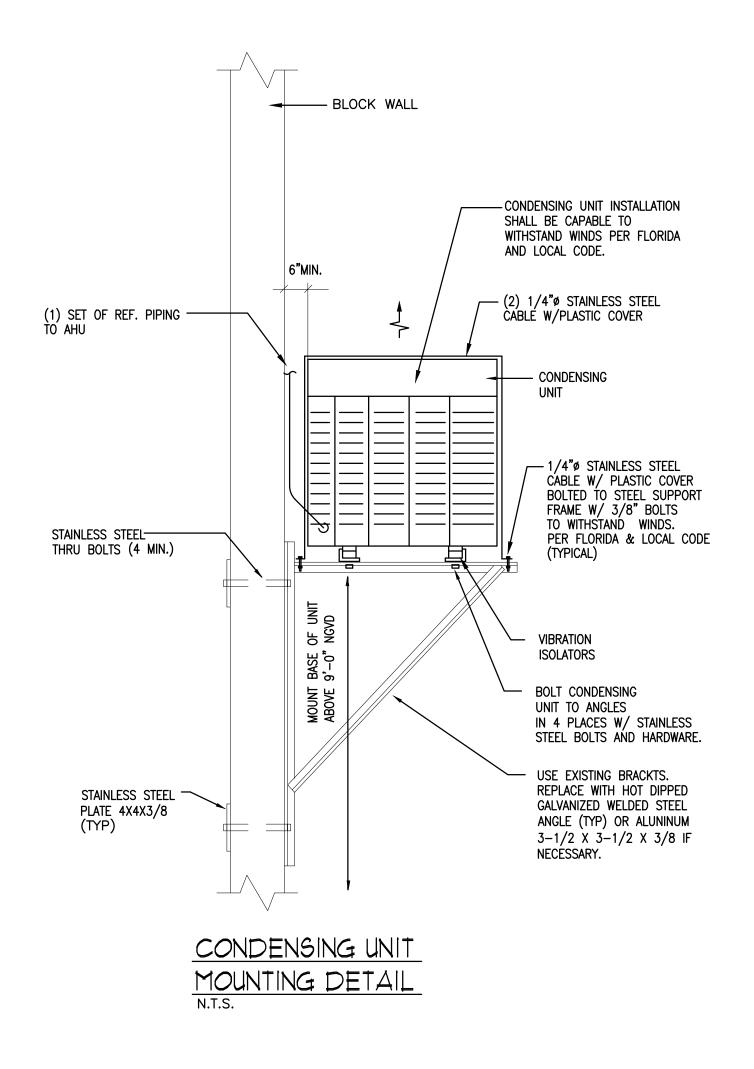
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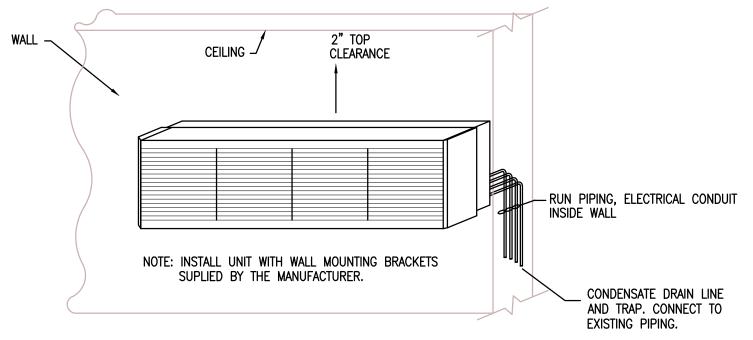
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WALL MOUNTED DUCTLESS SPLIT AHU DETAIL.

REMOVE EXISTING DUCTLESS SPLIT UNITS DURING DEMOLITION AND STORE. REINSTALL EXISTING UNITS IN SAME LOCATION WHEN ROOMS ARE READY.

HYAC GENERAL NOTES

- 1. THE WORK IS TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, PERMITS, FEES, INSPECTIONS, TESTS, INSURANCE, ETC. REQUIRED FOR THE COMPLETION OF THE HVAC SYSTEM SHOWN ON DRAWINGS AND/OR LISTED BELOW.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA BUILDING CODE AND ALL LOCAL ORDINANCES.
- 3. CONTRACTORS SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AND SHALL COORDINATE WORK WITH ALL OTHER TRADES AT THE JOB SITE PRIOR TO INSTALLATION OF EQUIPMENT.
- 4. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- 5. ALL REFRIGERANT PIPING SHALL BE TYPE "L" COPPER, TOGETHER WITH WROUGHT COPPER, SOLDER FITTINGS. JOINTS SHALL BE MADE WITH SILVER SOLDER OR "SILFOSS."
- 6. PIPE INSULATION: CONDENSATE PIPING AND REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH 3/4 " FIRE RATED FLEXIBLE FOAM INSULATION, FINISHED, WHERE EXPOSED WITH 2 COATS OF ACRYLIC LAQUER IN ACCORDANCE WITH THE MANUFACTURER'S
- 7. FLAME AND SMOKE RATING: ALL INSULATION PRODUCTS USED INSIDE THE BUILDING SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE GENERATION OF 50 IN ACCORDANCE WITH TESTS OUTLINED IN ASTM E84.
- 8. VERIFY ALL VOLTAGES WITH ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT.
- 9. SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT FOR APPROVAL PRIOR TO ORDERING.
- 10. ALL EQUIPMENT AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR. COMPRESSOR SHALL CARRY MINIMUM 5 YEAR FACTORY WARRANTEE.
- 11. VIBRATION ISOLATION: ALL EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATION OR AS SCHEDULED ON DRAWINGS.
- 12. FAN SHALL BE AS SCHEDULED ON THE DRAWINGS OR APPROVED EQUAL.
- 13. ALL OUTSIDE EQUIPMENT SHALL BE SECURED TO WITHSTAND WINDS PER FLORIDA AND LOCAL CODE.
- 14. MOUNT THERMOSTAT ON WALL WHERE SHOWN ON PLANS OR AT PREVIOUS LOCATIONS PER HANDICAP CODE REQUIREMENTS. PROVIDE KEY LOCK PLASTIC GUARD.
- 15. TESTING:
- A. PRESSURE TEST ALL REFRIGERANT HIGH SIDE PIPING TO 275 PSIG. HOLD FOR 24 HOURS. LOW SIDE TO BE TESTED AT 150 PSIG. HOLD FOR 24 HOURS. AFTER TESTING EVACUATE SYSTEM TO 28 INCHES OF MERCURY GAUGE PRESSURE WITH VACUUM PUMP. HOLD FOR 24 HOURS WITH PUMP OFF. BREAK VACUUM WITH OPERATING REFRIGERANT.
- 16. ALL EQUIPMENT SHALL BE INSTALLED MAINTAINING RECOMMENDED CLEARANCES FOR AIR FLOW AND SERVICE. COORDINATE LOCATION WITH STRUCTURAL FRAMING.
- 17. CONTRACTOR SHALL VISIT THE JOBSITE PRIOR TO BID AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. ANY CLARIFICATION REQUIRED SHALL BE BROUGHT TO THE ARCHITECT ATTENTION. NO EXTRAS SHALL BE ALLOWED FOR FAILURE TO DO SO.
- 18. EXISTING EQUIPMENT NOT INDICATED TO BE REUSED SHALL BE REMOVED AND DISPOSED OF PER ARCHITECT'S INSTRUCTIONS.
- 19. TOILET EXHAUST FAN, EF-1: THRU WALL 'BROAN' MODEL 512M, 70 CFM, 115V-1-60, 0.5AMP. 3.5 SONES. INTERLOCK WITH TOILET LIGHT SWITCH.
- 20. MINISPLIT A/C SYSTEM FOR CLASSROOM D: THE SYSTEM CAPACITY SHALL MATCH OTHER CLASSROOMS (2 TONS) FIELD VERIFY. IF LESS, REPLACE THE INDOOR AND OUTDOOR UNITS TO MATCH CLASSROOMS A THRU C.
- 21. CONTRACTOR MAY RE-USE EXISTING REFRIGERANT AND CONDENSATE DRAIN PIPING IF IN GOOD CONDITION. PROVIDE NEW INSULATION.

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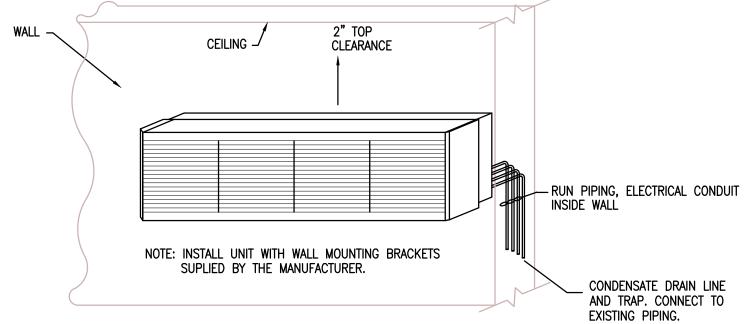
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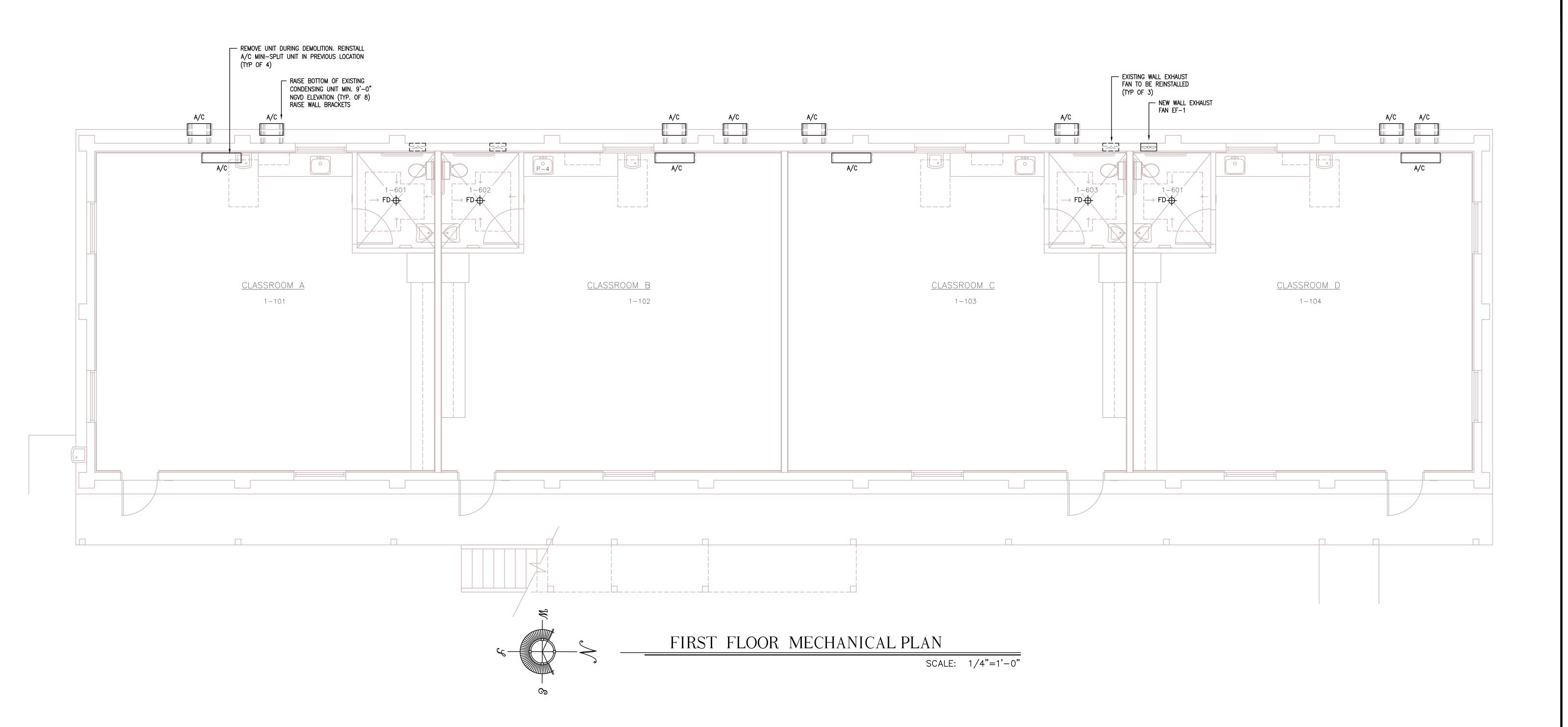
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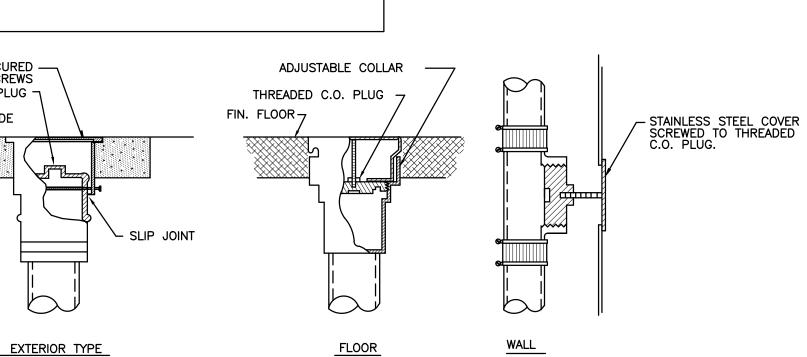
<u>NUMBE</u> 1822 NOTE:
EXPOSED PLUMBING PIPING IS NOT ALLOWED.
ALL PLUMBING PIPING SHALL RUN
UNDERGROUND, INSIDE CEILING SPACE, INSIDE
COLUMN OR INSIDE WALL. NO EXTRAS WILL
BE ALLOWED FOR FAILURE TO DO SO.

GENERAL NOTES:

- 1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE, STATE AND LOCAL ORDINANCES.
- 2. DRAINAGE SYSTEM DESIGN IS BASED ON 1/8" PER FOOT MINIMUM FALL FOR PIPES 3" OR LARGER AND 1/4" PER FOOT MINIMUM FALL FOR PIPES 2" OR SMALLER, ANY DEVIATIONS SHALL BE APPROVED BY ARCHITECT/ENGINEER.
- 3. PROVIDE CLEAN OUTS EVERY 75 FT. AND AT BASE OF EVERY WASTESTACK. ALL CLOSE-OUTS TO BE FLUSH MOUNTED.
- 4. MATERIALS SHALL BE ALL NEW AND AS FOLLOWS:
- A. DRAINAGE WASTE AND VENT PIPING ABOVE AND BELOW GROUND PVC DRAINAGE WASTE AND PIPING (DWV) CONFORMING TO ASTM D-2665, INSTALL PLASTIC (PVC) SCH40 SOLID WALL PIPES ONLY WHEN IT IS APPROVED BY LOCAL AUTHORITIES AND NOT TO BE USED IN AIR RETURN PLENUM.
- B. CONDENSATE DRAIN PIPING: COPPER TYPE "M" ASTM B-88 INSIDE THE BUILDING AND PVC SCHEDULE 40 ABOVE ROOF AND UNDERGROUND. PROVIDE 3/4" ARMAFLEX PIPE INSULATION TO ALL CONDENSATE DRAIN
- C. FLOOR CLEAN OUTS: JOSAM SERIES 56020 OR EQUAL.
- D. WALL CLEAN OUTS: JOSAM SERIES 58750 WITH ACCESS COVER OR EQUAL.
- 5. PERFORM THE FOLLOWING TEST:
- A. DRAINAGE SYSTEM: BEFORE INSTALLATION OF ANY DRAINS, THE END OF THE SYSTEM SHALL BE CAPPED & ALL LINES FILLED WITH WATER TO HIGHEST POINT & ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVELS REMAIN CONSTANT.
- B. CORRECT ALL DEFECTS DISCLOSED BY ABOVE TESTS.
- C. COMPLETE SYSTEM FIXTURE & EQUIPMENT SHALL BE GIVEN AN IN SERVICE TEST AFTER COMPLETION OF THE INSTALLATION.
- 6. PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE, AND THAT HE WILL, AT HIS EXPENSE, REPAIR AND REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING GUARANTEE PERIOD.
- 7. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION BEFORE COMMENCING ANY WORK.
- 8. PLUMBING CONTRACTOR SHALL PAY ALL FEES, INSPECTION AND CONNECTION
- 9. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL OF ALL EQUIPMENT, MATERIALS AND LAYOUTS PRIOR INSTALLATION.
- 10. OFFSET PIPING AS REQUIRED TO CLEAR BUILDING STRUCTURE, DUCTWORK, ETC. AS SHOWN ON DRAWINGS AND AS REQUIRED BY FIELD CONDITIONS.
- 11. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A/C CONDENSATE DRAIN AND TRAP. SEE A/C PLANS FOR LOCATION OF UNITS AND DRAINS.
- 12. PLUMBING CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT.
- 13. COORDINATE WORK WITH OTHER TRADES.
- 14. FURNISH AND INSTALL FIXTURES AS SPECIFIED IN SCHEDULE ON THIS SHEET
- 15. PROVIDE SHUTOFF VALVE FOR EACH FIXTURE, JUST BEFORE CONNECTING TO FIXTURE.
- 16. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- 17. WATER PIPING (CW): COPPER TYPE "L" ASTM B-88 ABOVE GROUND AND COPPER TYPE "K" ASTM B-88 UNDERGROUND. CPVC CTS MAYBE USED FOR WATER PIPING WHERE APPROVED BY CODE AND ACCEPTABLE TO OWNER.

	PLUMBING FIXTURE CONNECTION SCHEDULE									
SYMBOL	DESCRIPTION	DRAIN	COLD WATER	HOT WATER	MANUFACTURER/MODEL	TRIM				
P-1H	WATER CLOSET (ADA FLOOR MOUNTED) CLASSROOM D	3"	1/2"		AMERICAN STANDARD ""CADET 3" #270FA.101.020, WHITE VITREOUS CHINA ELONGATED BOWL, RIGHT HEIGHT, LOW CONSUMPTION, 1.28 GPF. RIM HEIGHT 16-1/2".	SUPPLY: BRASS-CRAFT POLISHED CHROME PLATED CAST BRASS ANGLE SUPPLY WITH RIGID SUPPLY RISER, LOOSE KEY STOP AND ESCUTCHEON.				
P-2H	LAVATORY (HANDICAP)	1 1/4"	1/2"		AMERICAN STANDARD LUCERN#0356.421 WHITE VITREDUS CHINA WALL HUNG LAVATORY WITH CENTER FAUCET HOLE, FRONT INTEGRAL OVERFLOW AND CONCEALED ARM SUPPORT, CARRIER: MIFAB MC-41 SERIES.	FAUCET: AMERICAN STANDARD #7385.053 RELIANT 3 SINGLE CONTROL CENTERSET METAL LEVER HANDLE. GRID DRAIN LESS POP-UP HOLE. 0.5 GPM PRESSURE COMPENSATING VANDAL RESISTANT SPRAY. DRAIN: McGUIRE #155A POLISHED CHROME PLATED CAST BRASS OPEN GRID STRAINER AND TAILPIECE, McGUIRE #8872 POLISHED CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON. SUPPLY: BRASS-CRAFT POLISHED CHROME PLATED CAST BRASS ANGLE SUPPLY WITH RIGID SUPPLY RISER, LOOSE KEY STOP AND ESCUTCHEON. PIPE INSULATION: TRUEBRO #101W & #105W, WHITE HANDICAP LAVATORY. P-STRAP AND SUPPLY INSULATION.				
P-3	SINK (SINGLE COMP.)	2"	1/2"		AMERICAN STANDARD #24SB.252211/791566-0750A COUNTERTOP MOUNTED SINK	FAUCET: AMERICAN STANDARD # 4332.310.F15 PEKOE SINGLE HANDLE FAUCET. DRAIN: ELKAY #LK-35 BASKET STRAINER, CHROME PLATED CAST BRASS WITH TAILPIECE. McGUIRE #8912 POLISHED CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON. SUPPLY: BRASS-CRAFT POLISHED CHROME PLATED CAST BRASS ANGLE SUPPLY WITH RIGID SUPPLY RISER, LOOSE KEY STOP AND ESCUTCHEON.				
P-4	ELECTRIC WATER COOLER	1 1/2"	1/2*	1/2*	ELKAY WALL MOUNTED WATER COOLER- MODEL EZ4-BARRIER FREE ACCESS (ADULT & CHILD) NSF/ANSI 61 COMPLAINT.	CONTRACTOR SHALL INSTALL AND PROVIDE ALL REQUIRED TRIMS, ACCESSORIES AND CONNECTIONS AS PER MANUFACTURER'S RECOMMENDATIONS TO MAKE FIXTURE OPERATIONAL AND FREE FROM DEFECTS. DRAIN: McGUIRE #8872 POLISHED CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON. SUPPLY: BRASS-CRAFT POLISHED CHROME PLATED CAST BRASS ANGLE SUPPLY WITH RIGID SUPPLY RISER, LOOSE KEY STOP AND ESCUTCHEON.				
FD-1	FLOOR DRAIN	3″			MIFAB MODEL F1100-S6-1-6-7-SS, CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, 6" SQUARE SATIN FNISHED STAINLESS STEEL STRAINER, VANDAL PROOF AND 1/2" TRAP SEAL.					

	P	LUMBING LEGEND
	SYMBOL	DESCRIPTION
		SANITARY WASTE LINE (SAN)
		SANITARY VENT LINE (V)
	—— ⊗ FCO	FLOOR CLEAN OUT
	——• CO	WALL CLEAN OUT
	├ ─ ◎─	"P" TRAP
	COOG ABV.	CLEAN OUT ON GROUND ABOVE
	BLW	BELOW
:S	CEIL., CLG.	CEILING
:2	FL. FCO. F.U.	FLOOR FLOOR CLEAN OUT FIXTURE UNIT
	(UG)	UNDERGROUND
	V.T.R.	VENT THRU ROOF
	VB	VACUUM BREAKER
	TP	TRAP PRIMER
	•	CONNECTION (NEW TO EXISTING)



PIPE HANGER DETAIL

CONC. INSERT

√3/8" ALL THREAD ROD

-PIPE RING HANGER

-INSULATION FOR NOISE

1. ALL PLUMBING FIXTURES SHALL COMPLY WITH CHAPTER 4 OF FLORIDA PLUMBING CODE. FLOW RATES SHALL BE PER TABLE 604.4 FPC

MAXIMUM

SPACING

12'

10'

HORIZONTAL

MAXIMUM

VERTICAL SPACING

10'

10'

10'

10' (B)

HANGER SPACING

PIPING MATERIAL

COPPER TUBING 1 1/4" AND LESS

COPPER TUBING 1 1/2" AND OVER

B MHD STORY GUIDE FOR 2" AND LARGER

A - SPACING SHALL BE 10' IF 10' LENGTHS ARE INSTALLED

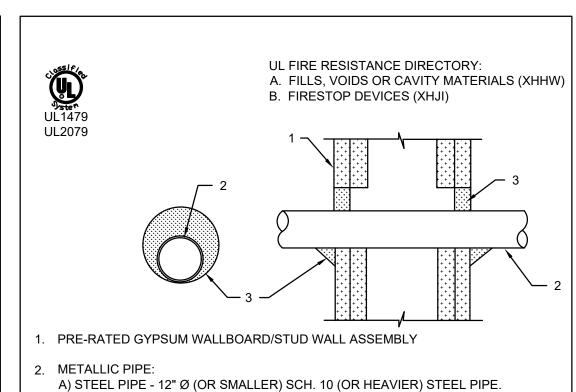
COPPER PIPE

PVC PIPE

TYPICAL CLEANOUT DETAIL

PLUMBING FIXTURE SCHEDULE, NOTES & LEGENDS

SCALE: NTS

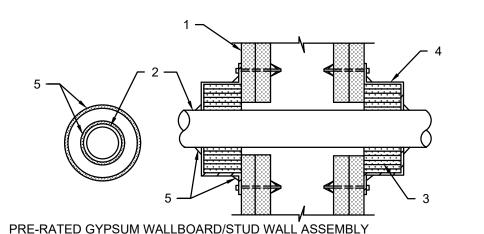


B) IRON PIPE - 12"Ø (OR SMALLER) CAST OR DUCTILE IRON PIPE.
C) COPPER TUBING - 4"Ø (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
D) COPPER PIPE - 4Ø (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
E) CONDUIT - 4"Ø (OR SMALLER) EMT OR 6" Ø (OR SMALLER) STEEL CONDUIT.

THE ANNULAR SPACE SHALL BE MIN. 0" TO MAX 1" WITHIN THE FIRESTOP SYSTEM.

3. TREMSTOP1A - MIN ½" THICKNESS OF SEALANT APPLIED WITHIN OPENING. MIN 3/8" CAN'T BEAD OF SEALANT TO BE APPLIED AT AREAS OF POINT CONTACT.

"TREMCO" MODEL: TREMSTOP IA FOR 1 OR 2 HOUR FIRE RATED PENETRATION FOR SINGLE METALLIC PIPE THRU GYPSUM WALL



- 2. PLASTIC PIPE NOM. 4"Ø (OR SMALLER) SCH. 40 PVC PIPE FOR USE IN CLOSED OR
- OPEN PIPING SYSTEMS. SEE TABLE BELOW FOR REQUIRED ANNULAR SPACE.

 3. TREMSTOP WS INTUMESCENT WRAP STRIP, CONTINUOUSLY WRAPPED AROUND
- OUTER CIRCUMFERENCE OF THE PIPE. SEE TABLE BELOW FOR MIN. WRAPS

 REQUIRED. PIPE DIAM. ANG. SPACE # OF WRAPS

 2 3/16 3
- 4. TREMSTOP MCR PREFABRICATED STEEL COLLAR WRAPPED OVER THE WRAP STRIPS (ITEM 3) AND MECHANICALLY FASTENED TO BOTH SIDES OF WALL ASSEMBLY.
- 5. TREMSTOP 1A OR TREMSTOP ACRYLIC (OPTIONAL) MIN 1/4" BEAD OF SEALANT APPLIED AT THE WALLBOARD/DEVICE AND DEVICE/PIPE INTERFACES.

"TREMCO" MODEL: TREMSTOP D FOR 2 HOUR FIRE RATED PENETRATION FOR SINGLE PLASTIC PIPE THRU GYPSUM WALL

FIRE STOPPING DETAIL N.T.S.

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03-25-19 PRICING REVIEW

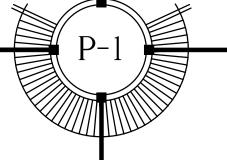
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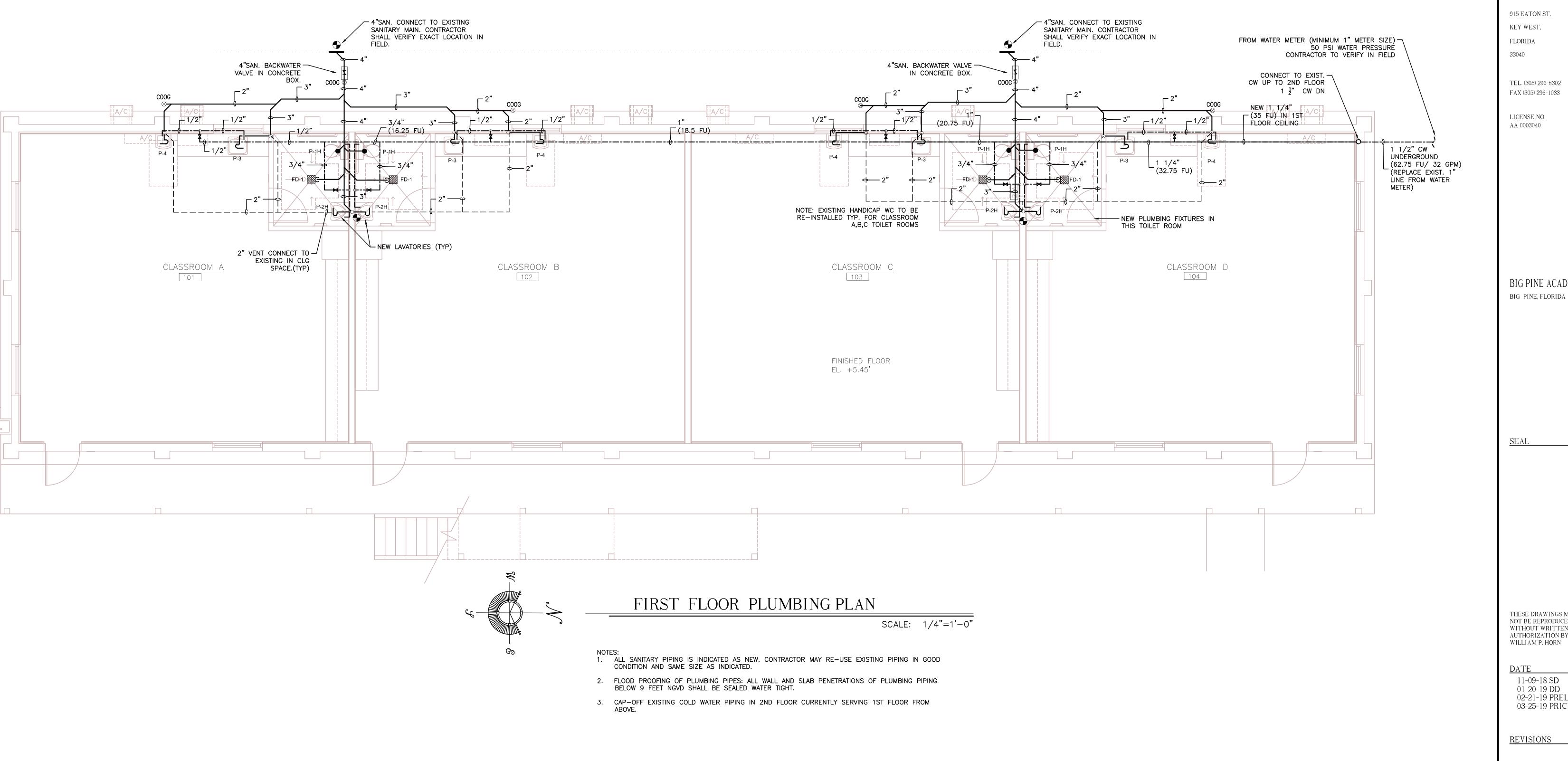
1822



WITH SCREWS THREADED C.O. PLUG \neg

FIN. GRADE

4 X 6" DIA. CONCRETE -



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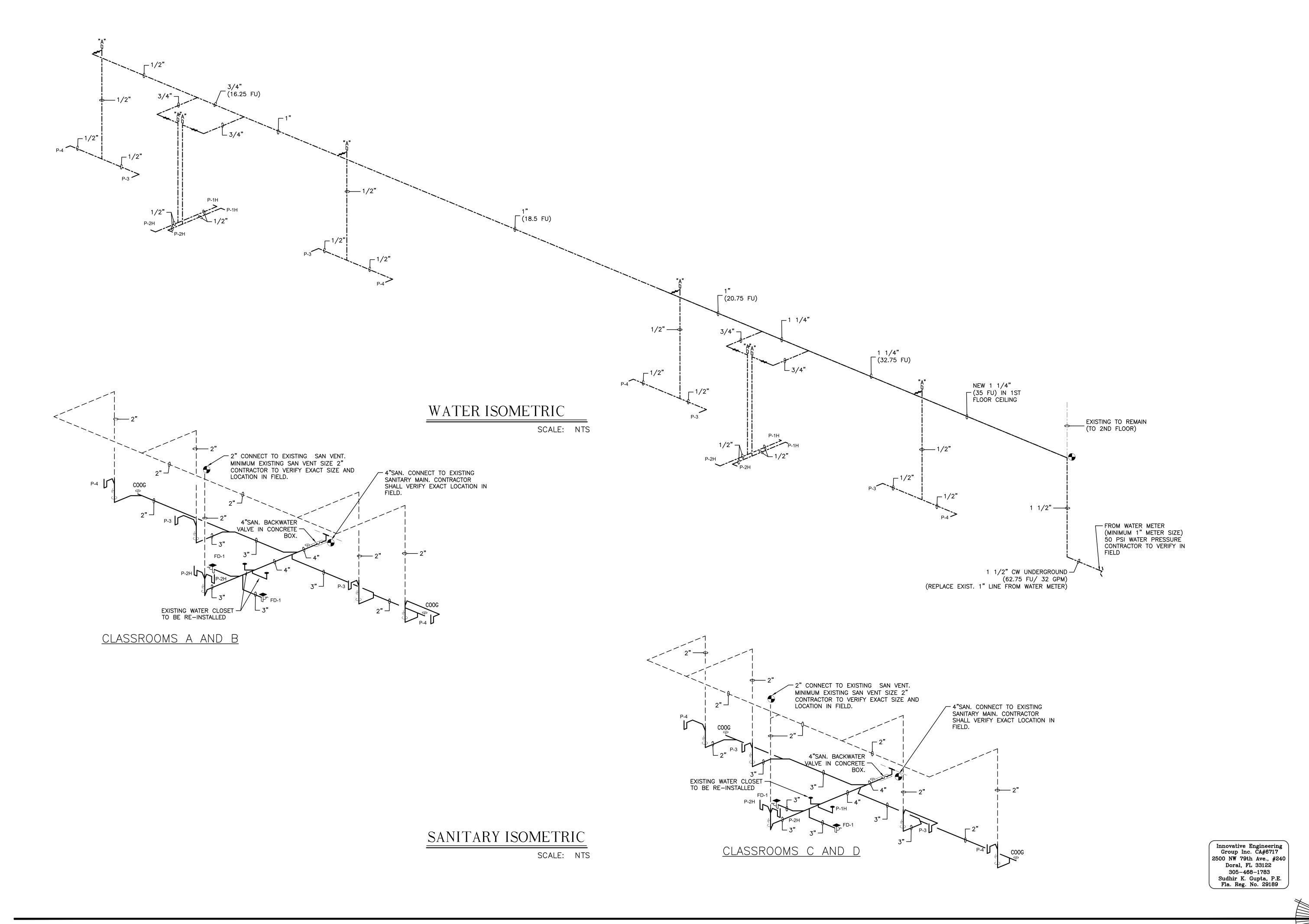
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STRUCTURAL SPECIFICATIONS **MISCELLANEOUS**

- 1. THESE ABBREVIATED DRAWING SPECIFICATIONS ARE WRITTEN TO MATCH THE BOOK SPECIFICATIONS. THERE ARE ANY ITEMS THAT DO NOT CORRESPOND EXACTLY AS WRITTEN, THE MORE STRINGENT WILL TAKE PRECEDENCE.
- 2. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS.
- 3. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS OR TIE_DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 4. CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION.
- 5. APPLICABLE BUILDING CODE: 6TH EDITION (2017) FLORIDA BUILDING CODE.
- 6. GRAVITY DESIGN LOADS:

TOTAL SUPERIMPOSED <u>DEAD LOAD</u> <u>AREA</u> FIRST FLOOR 40 PSF 20 PSF

7. WIND DESIGN CRITERIA:

ULTIMATE WIND SPEED: VULT = 182 MPH (3 SECOND

EQUIVALENT NOMINAL BASIC WIND SPEED VASD = 141 MPH (3 SECOND GUST)

RISK CATEGORY = IIEXPOSURE CATEGORY = D

ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT, GCPI= +/-0.18WIND BORNE DEBRIS REGION

- 8. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.
- 9. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.
- 10. CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.
- 11. SECTIONS AND DETAILS ARE REFERENCED IN TYPICAL LOCATIONS BUT ALSO APPLY TO ALL OTHER SIMILAR CONDITIONS.
- 12. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- 13. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN. ALLOW FOR TWO WEEKS REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR AND SIGNED/SEALED BY THE DELEGATED ENGINEER, WHERE SPECIFIED HEREIN.
- 14. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.
- 15. ANY CHANGES TO THE STRUCTURE SHALL HAVE BEEN REVIEWED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO COMMENCING WORK ON ITEMS AFFECTED.
- 16. CONTRACTOR SHALL NOTIFY THIS OFFICE WHEN THE STRUCTURAL SYSTEM IS SUBSTANTIALLY COMPLETED, AND BEFORE SHEATHING, CEILINGS, OR ROOFING IS INSTALLED.

DELEGATED ENGINEER

- 1. WHERE NOTED HEREIN, A LICENSED PROFESSIONAL (DELEGATED) ENGINEER SHALL BE RETAINED TO DESIGN THE PRODUCT OR ASSEMBLY.
- 2. THE DELEGATED ENGINEER SHALL BE EXPERIENCED IN THE DESIGN OF THE REFERENCED PRODUCT OR ASSEMBLY.

- 3. THE DELEGATED ENGINEER MUST BE PROVIDED WITH A COPY OF THESE DRAWINGS AND SPECIFICATIONS.
- 4. IT IS THE DELEGATED ENGINEER'S RESPONSIBILITY TO REVIEW THE ENGINEER OF RECORD'S WRITTEN ENGINEERING REQUIREMENTS AND AUTHORIZATION FOR THE DELEGATED ENGINEERING DOCUMENT TO DETERMINE THE APPROPRIATE SCOPE OF ENGINEERING.
- 5. THE DELEGATED ENGINEERING DOCUMENT SHALL COMPLY WITH THE WRITTEN ENGINEERING REQUIREMENTS RECEIVED FROM THE ENGINEER OF RECORD. THEY SHALL INCLUDE THE PROJECT IDENTIFICATION AND THE CRITERIA USED AS A BASIS FOR ITS PREPARATION. IF A DELEGATED ENGINEER DETERMINES THERE ARE DETAILS, FEATURES OR UNANTICIPATED PROJECT LIMITS WHICH CONFLICT WITH THE WRITTEN ENGINEERING REQUIREMENTS PROVIDED BY THE ENGINEER OF RECORD, THE DELEGATED ENGINEER SHALL TIMELY CONTACT THE ENGINEER OF RECORD FOR RESOLUTION OF CONFLICTS.
- 6. THE DELEGATED ENGINEER SHALL FORWARD THE DELEGATED ENGINEERING DOCUMENT TO THE ENGINEER OF RECORD FOR REVIEW. ALL FINAL DELEGATED ENGINEERING DOCUMENTS REQUIRE THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AND
- A) DRAWINGS INTRODUCING ENGINEERING INPUT SUCH AS DEFINING THE CONFIGURATION OR STRUCTURAL CAPACITY OF STRUCTURAL COMPONENTS AND/OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS.
- B) CALCULATIONS.

EXISTING BUILDINGS

INFORMATION ON THE EXISTING BUILDING, SHOWN ON THESE PLANS, IS OBTAINED FROM EXISTING BUILDING PLANS BY THOMAS/GRAY & ASSOCIATES INC., DATED SEPTEMBER 18, 1992. EXISTING INFORMATION DOES NOT NECESSARILY REFLECT AS-BUILT CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON THESE PLANS AND NOTIFY THE ENGINEER OF ANY VARIATION.

SITE WORK

- 1. A SUBSURFACE INVESTIGATION HAS BEEN COMPLETED AT THE PROJECT SITE BY WINGERTER LABORATORIES INC. SOIL BORING LOGS AND SITE PREPARATION PROCEDURES ARE INCLUDED IN THE PROJECT SOILS REPORT, DATED JANUARY 18, 2019, WHICH IS AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS. AN ADDENDUM TO THE GEOTECHNICAL REPORT DATED MARCH 5, 2019 INCLUDES PROVISIONS FOR LOAD TEST REQUIREMENTS.
- 2. SITE WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SOILS REPORT.
- 3. CONTRACTOR SHALL REVIEW THE SOILS REPORT AND VERIFY THAT TEST BORINGS HAVE BEEN DONE UNDER ALL BUILDING(S) PRIOR TO BEGINNING EARTHWORK.
- 4. INFORMATION FROM GEOTECHNICAL REPORT: MICRO PILE CAPACITY
- A.SHAFT DIAMETER 6.0 INCHES (ROUND) B. TOTAL PILE LENGTH 12 FEET
- C.TYPE OF MICRO PILE: POST GROUTED D.COMPRESSIVE CAPACITY: 44 KIPS (22 TONS)
- E.TENSION CAPACITY: 24 KIPS (12 TONS) F.LATERAL CAPACITY: 8 KIPS (4 TONS)

AND GENERAL CONTRACTOR.

- 5. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING MINIMUM TESTS. REFER TO SOILS REPORT FOR ANY ADDITIONAL TESTING.
- A) ONE DENSITY TEST FOR EACH 2,000 SQUARE FEET OF COMPACTED SUBGRADE AND COMPACTED FILL.
- B) ONE DENSITY TEST AT EACH COLUMN FOOTING. C) ONE DENSITY TEST PER 50 FEET OF WALL FOOTING.
- 6. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER,
- 7. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR

SLABS AT TOP AND BOTTOM ARE IN PLACE.

- 8. THE SIDES OF FOOTINGS MAY BE EARTH_FORMED IF THE EXCAVATION CAN BE KEPT VERTICAL, CLEAN, AND STABLE, OTHERWISE, PLYWOOD FORMS MUST BE USED.
- 9. EXERCISE CARE WHEN COMPACTING NEAR ADJACENT STRUCTURES. FOLLOW THE RECOMMENDATIONS IN THE SOILS REPORT AND DOCUMENT EXISTING CONDITIONS WITH PHOTOGRAPHS PRIOR TO STARTING WORK.
- 10. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITY LINES, TANKS, ETC. WITHIN THE CONSTRUCTION AREA AND RELOCATE THEM AS

DIRECTED BY THE CIVIL ENGINEER.

MICRO PILES

- 1. USING THE PROJECT SOILS REPORT FOR REFERENCE, THE CONTRACTOR SHALL SELECT THE MINI-PILE TYPE AND THE INSTALLATION METHOD, AND DETERMINE THE LENGTH AND DIAMETER.
- 2. SERVICE LOAD CAPACITIES: DOWNWARD = 44 TONSUPLIFT = 24 TONSLATERAL = 8 TONS
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MINI-PILES THAT WILL DEVELOP THE LOADS INDICATED ON THE CONTRACT DRAWINGS. IN ACCORDANCE WITH THE TESTING PARAGRAPH OF THIS SPECIFICATION.
- 4. CONTRACTORS PROPOSAL FOR WORK SHALL EXPLAIN IN DETAIL THE MATERIALS, METHODS, AND DESIGN ASSUMPTIONS HE WILL EMPLOY.
- 5. CONTRACTOR PERFORMING THE WORK DESCRIBED IN THIS SPECIFICATION SHALL HAVE INSTALLED MINI-PILES FOR MINIMUM OF FIVE (5) YEARS.
- 6. AN ACCEPTABLE PRE-QUALIFIED SPECIALTY CONTRACTOR CAPABLE OF DOING THIS WORK IS GKN HAYWARD BAKER, INC., TAMPA, FLORIDA, (813) 884_3441.
- 7. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED
- A) REVIEW CONTRACTOR'S QUALIFICATIONS.
- B) REVIEW CONTRACTOR'S PROPOSAL. C) MONITOR TEST PILE PROCEDURE
- D) MONITOR INSTALLATION OF ALL PILES.
- 8. TESTING LABORATORY SHALL APPROVE OR REJECT THE CONTRACTOR'S QUALIFICATIONS AND STAFF WITHIN FIFTEEN (15) WORKING DAYS AFTER RECEIPT OF THE SUBMISSION. WORK SHALL NOT BE STARTED ON ANY PILING NOR MATERIALS ORDERED UNTIL APPROVAL OF THE CONTRACTOR'S QUALIFICATIONS ARE GIVEN.
- 9. TESTING LABORATORY SHALL SUBMIT:
- A) AS_BUILT DRAWINGS SHOWING THE LOCATION OF THE MINI_PILES AND PILE LENGTH.
- ROCK AND DETAILS OF ROCK QUALITY.
- C) GROUTING RECORDS INDICATING THE CEMENT TYPE, AND QUANTITY INJECTED.
- D) MINI-PILE TEST RESULTS AND GRAPHS.
- 10. CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW WORKING AND DESIGN SUBMISSION DESCRIBING THE MINI-PILE SYSTEM OR SYSTEMS INTENDED FOR USE, INCLUDING:
- A) A DRAWING SHOWING THE LOCATION AND ORIENTATION OF EACH MINI-PILE.
- B) A MINI-PILE SCHEDULE GIVING:
- 1) MINI-PILE NUMBER 2) MINI-PILE DESIGN LOAD
- 3) TYPE AND SIZE OF MINI-PILE
- 11. IF REQUIRED, THE CONTRACTOR SHALL SUBMIT CALIBRATION DATA FOR EACH TEST JACK, PRESSURE GAUGE AND MASTER PRESSURE GAUGE TO BE USED. THE CALIBRATION TESTS SHALL HAVE BEEN PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND TEST SHALL HAVE BEEN PERFORMED WITHIN SIXTY (60) CALENDAR DAYS OF THE DATE SUBMITTED.
- 12. CONTRACTOR SHALL USE A NEAT CEMENT GROUT OR A SAND CEMENT GROUT. IT SHALL NOT CONTAIN LUMPS OR OTHER INDICATIONS OF HYDRATION.
- 13. GROUT SHALL BE 4000 PSI AT 28 DAYS WITH:
- A) CEMENT _ TYPE I, II, OR III CONFORMING TO AASHTO M85. IN SOME APPLICATIONS WHERE VOIDS EXIST, SAND MAY BE ADDED TO THE GROUT.
- B) ADMIXTURES _ ADMIXTURES WHICH CONTROL BLEEDING, IMPROVE FLOWABILITY, REDUCE WATER CONTENT AND
- RETARD SET MAY BE USED IN THE GROUT. ADMIXTURES, IF THEY ARE USED, SHALL BE COMPATIBLE WITH STEEL PILE
- COMPONENTS AND MIXED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- C) SAND _ CLEAN
- D) WATER _ WATER FOR MIXING GROUT SHALL BE

POTABLE.

- 14. UNLESS OTHERWISE DIRECTED, CORE DRILLING, ROTARY DRILLING, PERCUSSION DRILLING, AUGER DRILLING, DRIVEN CASING OR OTHER ACCEPTABLE MEANS CAN BE USED. THE MINI-PILE CAN BE INSTALLED IN THE DRILL HOLE AFTER DRILLING OR IT CAN BE ADVANCED BY THE DRILL.
- 15. GROUTING EQUIPMENT SHALL PRODUCE A GROUT FREE OF LUMPS AND UNDISPERSED CEMENT. THE PUMP SHALL BE EQUIPPED WITH A PRESSURE GAUGE TO MONITOR GROUT PRESSURES. THE PRESSURE GAUGE SHALL BE CAPABLE OF MEASURING PRESSURES OF AT LEAST 150 PSI OR TWICE THE ACTUAL GROUT PRESSURES USED BY THE CONTRACTOR, WHICH EVER IS GREATER. THE GROUTING EQUIPMENT SHALL BE SIZED TO ENABLE THE GROUT TO BE PUMPED IN ONE CONTINUOUS OPERATION. THE MIXER SHOULD BE CAPABLE OF CONTINUOUSLY AGITATING THE GROUT.
- 16. THE ENTIRE MINI-PILE SHALL BE FILLED WITH GROUT. GROUT SHALL BE INJECTED FROM THE LOWEST POINT OF THE DRILL HOLE. THE GROUT MAY BE PUMPED THROUGH GROUT TUBES, CASING, HOLLOW_STEM_AUGERS OR DRILL RODS. THE QUANTITY OF THE GROUT AND THE GROUT PRESSURES SHALL BE RECORDED. THE GROUT PRESSURES AND GROUT SHALL BE CONTROLLED TO PREVENT EXCESSIVE HEAVE IN COHESIVE SOILS OR FRACTURING OF ROCK FORMATIONS.
- 17. AFTER GROUTING, THE MINI-PILE SHALL NOT BE LOADED FOR A MINIMUM OF THREE (3) DAYS.
- 18. A MINIMUM OF ONE TEST PILE SHALL BE LOADED TO 1.25 TIMES THE DESIGN LOAD. THE LOAD TEST SHALL BE EVALUATED BY THE CONTRACTOR AND TESTING LABORATORY TO ASSUME COMPLIANCE WITH JOB PERFORMANCE REQUIREMENTS.
- 19. LOAD TESTING TO BE COMPLETED AS DETAILED IN THE GEOTECHNICAL REPORT DATED MARCH 3, 2019. LOAD TESTING TO BE PER ASTM D3689 "STAIG AXTAL TENSION LOAD" SECTION 8.1.2. QUICK TEST. OR AS DEFINED BY THE GEOTECHNICAL ENGINEER.
- 20. THE LOAD SHALL BE APPLIED WITH A CALIBRATED HYDRAULIC JACK. A LEVELING PLATE SHALL BE ATTACHED TO THE SURFACE OF THE TEST PILE AND THE JACK SHALL BE SET IN POSITION WITH THE LOAD CENTERED ON THE PILE.
- B) DETAILED DRILLING RECORDS INCLUDING DEPTH TO 21. TEST PILE(S) CAN BE A PRODUCTION PILE APPROVED BY THE GEOTECHNICAL ENGINEER.
 - 22. CONTRACTOR GUARANTEES THAT SHOULD THE TEST PILE FAIL TO GIVE ACCEPTABLE RESULTS, HE WILL MODIFY HIS DESIGN AND INSTALL AND TEST ANOTHER PILE AT HIS EXPENSE.

CAST IN PLACE CONCRETE

- 1. ALL CAST-IN-PLACE CONCRETE WORK INCLUDES REINFORCING STEEL AND RELATED WORK SHOWN INCLUDING FORMWORK, SETTING ANCHOR BOLTS, PLATES, FRAMES, DOWELS FOR MASONRY OR OTHER ITEMS EMBEDDED IN CONCRETE.
- 2. APPLICABLE STANDARDS
 - ACI NUMBER TITLE
- STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION
- GROUND GRANULATED BLAST-FURNACE SLAG STANDARD SPECIFICATIONS FOR STRUCTURAL 301 CONCRETE FOR BUILDINGS
- GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
- GUIDE FOR MEASURING MIXING, TRANSPORTING AND PLACING CONCRETE
- PLACING CONCRETE BY PUMPING METHODS. HOT WEATHER CONCRETING
- 306R COLD WEATHER CONCRETING 308 STANDARD PRACTICE FOR CURING CONCRETE 309R GUIDE FOR CONSOLIDATION OF CONCRETE
- 315 MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES
- REINFORCED CONCRETE RECOMMENDED PRACTICE FOR CONCRETE

BUILDING CODE REQUIREMENTS FOR

- CRSI NUMBER TITLE RECOMMENDED PRACTICE FOR PLACING
- 3. CONCRETE MATERIALS

FORMWORK

REINFORCING BARS

- A) PORTLAND CEMENT ASTM C 150, TYPE I B) AGGREGATES — NORMAL WEIGHT CONCRETE, COARSE AND FINE, ASTM C33. STRUCTURAL LIGHT WEIGHT ASTM C330.
- C) AIR-ENTRAINING ASTM C260
- D) WATER REDUCING ASTM C494, TYPE A
- E) WATER FRESH, CLEAN AND POTABLE F) NO ACCELERATORS, RETARDERS OR ADMIXTURES
- CONTAINING CHLORIDES WILL BE PERMITTED G) FLY-ASH - ASTM C618, CLASS F, 20% MAXIMUM OF CEMENTITIOUS MATERIAL BY WEIGHT. DO NOT USE
- FOR EXPOSED SLABS OR ARCHITECTURAL CONCRETE. H) SUPER PLASTICIZER - ASTM C494, TYPE F OR G, WHERE AUTHORIZED BY THE ENGINEER.
- I) GROUND GRANULATED BLAST-FURNACE SLAG CEMENT - ASTM C989, 50% MAXIMUM BY WEIGHT.
- J) MAXIMUM AGGREGATE SIZE FOOTINGS = #57, OTHERS #67
- 4. REINFORCING MATERIALS
- A) DEFORMED BARS ASTM A615, GRADE 60
- B) SMOOTH DOWELS ASTM A615, PLAIN BARS, MINIMUM YIELD STRENGTH OF 60,000 PSI.
- C) CORROSION RESISTANT UNCOATED STEEL (MMFX-2) -ASTM A615, GRADE 75 AND ASTM A1035 LOW-CARBON (8% MINIMUM) CHROMIUM BY MMFX OR EQUAL.
- D) WELDED WIRE FABRIC ASTM A1064, PLAIN WIRE FABRIC IN FLAT SHEETS ONLY.
- E) ACCESSORIES TO CONFORM TO ACI 315.
- F) WHERE CONCRETE SURFACES ARE EXPOSED, MAKE THOSE PORTIONS OF ALL ACCESSORIES IN CONTACT WITH THE CONCRETE SURFACE OR WITHIN 1/2 INCH THEREOF, OF PLASTIC OR STAINLESS STEEL
- 5. PROVIDE THE FOLLOWING MINIMUM CONCRETE STRENGTHS AT 28 DAYS:
- A) FOOTINGS, SLAB-ON-GRADE------4000 PSI
- 6. CONCRETE MUST BE BATCHED, MIXED AND TRANSPORTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR READY-MIXED CONCRETE ASTM C94.

7. REQUIRED SLUMP = 4 PLUS OR MINUS ONE INCH.

TIME TO 60 MINUTES.

- 8. CONCRETE MUST BE PLACED WITHIN 90 MINUTES OF BATCH TIME. WHEN AIR TEMPERATURE IS BETWEEN 85 AND 90 DEGREES F, REDUCE MIXING AND DELIVERY TIME TO 75 MINUTES. WHEN AIR TEMPERATURE IS HIGHER THAN 90 DEGREES F, REDUCE MIXING AND DELIVERY
- 9. DO NOT ADD WATER AT THE JOB SITE WITHOUT EXCEED THE SLUMP LIMITATION. USE ONLY COLD WATER FROM THE TRUCK TANK. ANY ADDED WATER MUST BE INDICATED ON THE DELIVERY TICKET PLUS THE NAME OF THE PERSON AUTHORIZING. TEST CYLINDERS SHALL BE TAKEN AFTER THE ADDITION OF WATER.

DRAWING INDEX:

SØ.1 STRUCTURAL SPECIFICATIONS

SØ.2 STRUCTURAL SPECIFICATIONS

WIND PRESSURES

SIØ PLAN AND DETAILS

915 EATON ST. KEY WEST,

FLORIDA 33040

> TEL. (305) 296-8302 FAX (305) 296-1033

WILLIAM P. HORN

E.M.A

PROJECT NUMBER

1822 STRUCTURAL SPECIFICATIONS

BIG PINE ACADEMY

BIG PINE, FLORIDA

- 10. LAP SPLICE REINFORCING PER CONCRETE LAP SCHEDULE MINIMUM UNLESS OTHERWISE SHOWN OR NOTED.
- 11. PROVIDE CORNER BARS AT ALL WALL FOOTING, WALL AND BEAM CORNERS. SIZE AND NUMBER TO MATCH HORIZONTAL BARS.
- 12. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND NUMBER OF VERTICAL BARS. EMBED DOWELS TO:

 A) 3" ABOVE BOTTOM OF FOOTINGS
- 13. REINFORCEMENT SHALL BE FASTENED AND SECURED TOGETHER TO PREVENT DISPLACEMENT BY CONSTRUCTION LOADS OR THE PLACING OF CONCRETE.
- 14. REINFORCING BAR COVER
- A) FOOTINGS 2" (TOP), 3" (SIDES AND BOTTOM) B) SLABS 1-1/2" (EXTERIOR)
- 15. WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, LENGTH OF HOOK, IF REQUIRED, IS NOT INCLUDED.
- 16. SELECT PROPORTIONS IN ACCORDANCE WITH ACI 301 TO PROVIDE CONCRETE CAPABLE OF BEING PLACED WITHOUT EXCESSIVE SEGREGATION AND WITH ACCEPTABLE FINISHING PROPERTIES, DURABILITY, SURFACE HARDENERS, APPEARANCE, AND STRENGTH REQUIREMENTS REQUIRED BY THESE SPECIFICATIONS.
- 17. CHAIR WELDED WIRE FABRIC REINFORCING AT 3'-0" ON CENTER MAXIMUM IN EACH DIRECTION.
- 18. MAXIMUM WATER TO CEMENT RATIO WHEN NO BACK-UP DATA IS AVAILABLE:
- A) 4000 PSI, 28-DAY COMPRESSIVE STRENGTH; W/C RATIO, 0.44 MAXIMUM (NON-AIR-ENTRAINED), 0.36 MAXIMUM (AIR-ENTRAINED).
- 19. DATA TO BE SUBMITTED:
- A) INTENDED USAGE AND LOCATION FOR EACH TYPE
- B) MIX DESIGN FOR EACH TYPE
- C) CEMENT CONTENT IN POUNDS-PER-CUBIC YARD
- D) COARSE AND FINE AGGREGATE IN POUNDS/CUBIC YARD
- E) WATER CEMENT RATIO BY WEIGHT
- F) CEMENT TYPE AND MANUFACTURER
- G) SLUMP RANGE
- H) AIR CONTENT
- I) ADMIXTURE TYPE AND MANUFACTURER
- J) PERCENT ADMIXTURE BY WEIGHT
- K) STRENGTH TEST DATA REQUIRED TO ESTABLISH MIX DESIGN.
- L) COMPLETE DETAIL AND PLACING SHOP DRAWINGS FOR ALL REINFORCING STEEL INCLUDING ACCESSORIES THAT HAVE BEEN REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR. INCLUDE ALL REQUIRED DIMENSIONS AND ELEVATIONS (IE. TOP OF CONCRETE)
- 20. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CONSTRUCTION OF FORMWORK, SHORING AND RE-SHORING IN ACCORDANCE WITH ACI 347.
- A) FORM AND SHORING DESIGN BY A P.E. REGISTERED IN THE STATE OF FLORIDA.
- 21. SUBMIT FORM WORK AND SHORING DRAWINGS TO LOCAL BUILDING DEPARTMENT WHEN REQUIRED BY FLORIDA THRESHOLD LAW.
- 22. CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS MUST BE MADE AND LOCATED TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE.
- A) NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, GIRDERS AND SLABS.
- B) LOCATION OF ANY CONSTRUCTION JOINT NOT SHOWN IS SUBJECT TO REVIEW AND ACCEPTANCE BY ENGINEER.
- 23. INTERNAL VIBRATION, PROPERLY APPLIED IS THE REQUIRED METHOD OF CONSOLIDATING PLASTIC CONCRETE.
- 24. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, AND SLAB RECESSES AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENINGS, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMN UNLESS APPROVED BY THE ENGINEER.
- 25. CONTRACTOR SHALL VERIFY EMBEDDED ITEMS INCLUDING, BUT NOT LIMITED TO, ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR.
- 26. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISHES.

- 27. SLOPE WALKWAYS AND BALCONIES TO DRAIN AWAY FROM THE BUILDING.
- 28. TESTING
 - A) A QUALIFIED TESTING LAB SHALL BE RETAINED TO PERFORM QUALITY CONTROL WORK AND ON-SITE TESTING.
 - B) SLUMP TEST ASTM 143
 - C) MOLD AND CURE TEST CYLINDERS (ASTM C-31) AND TEST CYLINDERS FOR STRENGTH (ASTM C39). TAKE ONE TEST THREE CYLINDERS FOR EACH DAYS POUR OF 100 CUBIC YARDS, OR FRACTION THEREOF. TEST ONE CYLINDER AT 7 DAYS, TWO AT 28 DAYS. TEST CYLINDER SAMPLES SHALL BE TAKEN AT THE POINT OF DISCHARGE WHEN USING A PUMP.
- D) ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO THE OWNER, ENGINEER, ARCHITECT AND GENERAL CONTRACTOR.
- 29. CONTRACTOR SHALL PROVIDE FLATNESS AND LEVELNESS IN CONCRETE SLABS PER ACI 302.1R, FIG. 10.7 MINIMUM REQUIRED "F" NUMBERS FOR TYPE OF SLAB USE. REFER TO ACI 117 FOR FLOOR TOLERANCES.
- 30. REPAIR ANY CRACKS OR DEFECTIVE AREAS THAT WILL RESTORE THE AFFECTED SURFACE OR AREAS TO THEIR FULL DESIGN STRENGTH AND APPEARANCE. CONTACT THE STRUCTURAL ENGINEER FOR ADVICE AND EVALUATION.
- 31. ACCEPTANCE OF THE STRUCTURE WILL BE MADE IN CONFORMANCE WITH ACI 301.
- 32. ALL CAST-IN-PLACE CONCRETE MUST BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR A MINIMUM OF 7 DAYS FOLLOWING THE PLACING OF THE CONCRETE BY THE USE OF A WATER SPRAY, WATER SATURATED FABRIC, MOISTURE RETAINING MEMBRANE OR LIQUID CURING COMPOUND.
- 33. CURE SLABS-ON-GRADE FOR THE FIRST 72 HOURS BY THE USE OF:
 - A) FOG SPRAYING
 - B) PONDING
- C) SPRINKLING
- D) CONTINUOUSLY WET ABSORPTIVE MATS OR FABRIC
- E) CONTINUE CURING BY USE OF MOISTURE RETAINING COVER UNTIL CONCRETE HAS OBTAINED ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
- F) OR LIQUID CURING COMPOUND AFTER FINISHING PROCESS IS COMPLETED.
- G) CONCRETE WET CURE TIME TO BE 7 DAYS MINIMUM AT 50 DEGREES MINIMUM TEMPERATURE.
- 34. SUBMIT MATERIALS AND METHOD OF CURING FOR REVIEW.
- 35. DO NOT USE MOISTURE RETAINING CURING COMPOUNDS FOR CURING SURFACES TO RECEIVE CARPET, FLEXIBLE FLOORING, CERAMIC TILED FLOORS OR OTHER SPECIFIED FLOOR SYSTEMS, UNLESS IT HAS BEEN DEMONSTRATED THAT SUCH COMPOUNDS WILL NOT PREVENT BOND.
- 36. DO NOT PERMIT CONCRETE NOT FULLY CURED TO BE EXPOSED TO EXCESSIVE TEMPERATURE CHANGES OR HIGH WINDS.
- 37. POUR ALL GROUND SLABS ON 10 MIL MINIMUM VAPOR RETARDER IN COMPLIANCE WITH ASTM E1745, LAPPED 6" MINIMUM AND FULLY TAPED.
- 38. EQUIPMENT MADE OF ALUMINUM OR ALUMINUM ALLOYS, SHALL NOT BE USED FOR PUMP LINES, TREMIES, OR CHUTES OTHER THAN SHORT CHUTES SUCH AS THOSE USED TO CONVEY CONCRETE FROM A TRUCK MIXER.
- 39. THE CODE PROHIBITS THE USE OF ALUMINUM (CONDUIT, PIPES, ETC.) IN STRUCTURAL CONCRETE UNLESS IT IS EFFECTIVELY COATED OR COVERED.

DRILL-IN BOLTS, SCREWS AND DOWELS

- 1. ADHESIVE DOWELING RODS/BOLTS SHALL BE CARBON STEEL THREADED ROD CONFORMING TO ISO 898 5.8 WITH A MINIMUM TENSILE STRENGTH OF 72.5 KSI (500MPA) AND A MINIMUM YIELD OF 58 KSI (400MPA). THREADED RODS WITH NUTS AND WASHERS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 2. ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD SIDE-BY-SIDE FOIL PACKAGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. ADHESIVE SHALL BE TESTED AND APPROVED TO MEET THE MINIMUM REQUIREMENTS OF ACI 355.4 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PROVIDE HILTI HY 200 SAFE SET (ESR

- 3187) OR RE 500 V3 (ESR 3814) ANCHORS BY HILTI OR EQUAL (E.G. SIMPSON SET—XP, ATC ULTRABOND 365CC)UNLESS SPECIFIED OTHERWISE IN THE STRUCTURAL DOCUMENT.
- 3. DRILL—IN REBAR DOWELS SHALL BE SET USING A TWO—PART ADHESIVE AS DESCRIBED ABOVE.
- 4. MASONRY SCREWS SHALL BE 1/4" DIAMETER WITH 1-5/8" MINIMUM EMBEDMENT INSTALLED IN DRILLED HOLES USING AN APPROPRIATE BIT DIAMETER.
- 5. SCREWS SHALL HAVE A BODY MADE OF CARBON STEEL AND SHALL BE HEAT TREATED AND SHALL HAVE 8MM ZINC COATING IN ACORDANCE WITH EN ISO 4042. PROVIDE HUS EZ (ESR 3027) SCREWS BY HILTI OR EQUAL.
- 6. HEAVY-DUTY CONCRETE AND MASONRY SCREWS SHALL BE TESTED AND APPROVED TO MEET THE MINIMUM REQUIREMENTS OF ACI 355.2. HILTI KWICK HUS EZ (ESR-3027 FOR CONCRETE, ESR-3056 FOR GROUT FILLED MASONRY). HEAVY DUTY SCREWS BY HILTI OR EQUAL.
- 7. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THE ANCHORING PRODUCTS SPECIFIED. MCCARTHY AND ASSOCIATES TO RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO ARE TO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLATION.

THIS DRAWING IS NOT FOR CONSTRUCTION. IT HAS BEEN ISSUED FOR GOVERNMENTAL REVIEW AND/OR PRELIMINARY PRICING ONLY

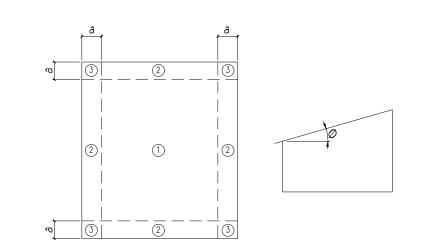
ULTIMATE GROSS WIND LOADS MAIN ROOF ROOFING MATERIALS							
COMPONENTS ROOF ZONE							
AND CLADDING	1	2	3				
PRESSURE (psf)	39.0	39.0	39.0				
SUCTION (psf)	-95.8	-160.8	-242.Ø				

ULTIMATE GROSS WIND LOADS MAIN ROOF JOISTS							
COMPONENTS		ROOF ZONE					
AND CLADDING	1	2	3				
PRESSURE (psf)	3Ø.9	3Ø.9	3Ø.9				
SUCTION (psf)	-87.7 -103.9 -103.9						

ULTIMATE WIND PRESSURES (PSF) EXTERIOR DOORS, WINDOWS, WALLS								
EFFECTIVE AREA (ft)	ZON	IE 4	ZOI	NE 5				
AREA (ft)	PRESSURE	SUCTION	PRESSURE	SUCTION				
1 TO 2Ø	F.F8	-95.0	7.T8	-116.9				
21 TO 5Ø	83.6	-90.9	83.6	-108.8				
51 TO 100	78.8	-86.1	78.8	-99.1				
101 TO 150	74.7	-82.0	74.7	-90.9				
151 TO 25Ø	72.3	-79.6	T2.3	-86.9				
251 TO 500	69.8	- 17.1	69.8	-81.2				
501 + ABOVE	65.8	-73.1	65.8	-73.1				

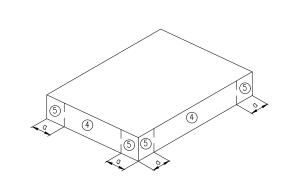
COMPONENT AND CLADDING LOADING DIAGRAMS

- 1. a= 3'-Ø"
- 2. THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE TABLES. IN ADDITION, ALL AREAS OF EXTERIOR GLAZING MUST BE CERTIFIED FOR MISSILE IMPACT OR PROTECTED BY WIND-BORNE DEBRIS BY A SCREEN BARRIER.



FLAT ROOF

BUILDING HEIGHT = 25ft ASSUMED



DOORS, WINDOWS AND WALLS

WILLIAM P. HORN ARCHITECT, P.A.

915 EATON ST.

KEY WEST, FLORIDA 33040

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LICENSE NO. AA 0003040



BIG PINE ACADEMY
BIG PINE, FLORIDA

SEA

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DATE

03-22-2019

AUTHORIZATION BY

WILLIAM P. HORN

REVISIONS

DRAWN BY

PROJECT NUMBER

E.M.A

1822 STRUCTURAL SPECIFICATIONS & WIND PRESSURES

S0.2

SEAL

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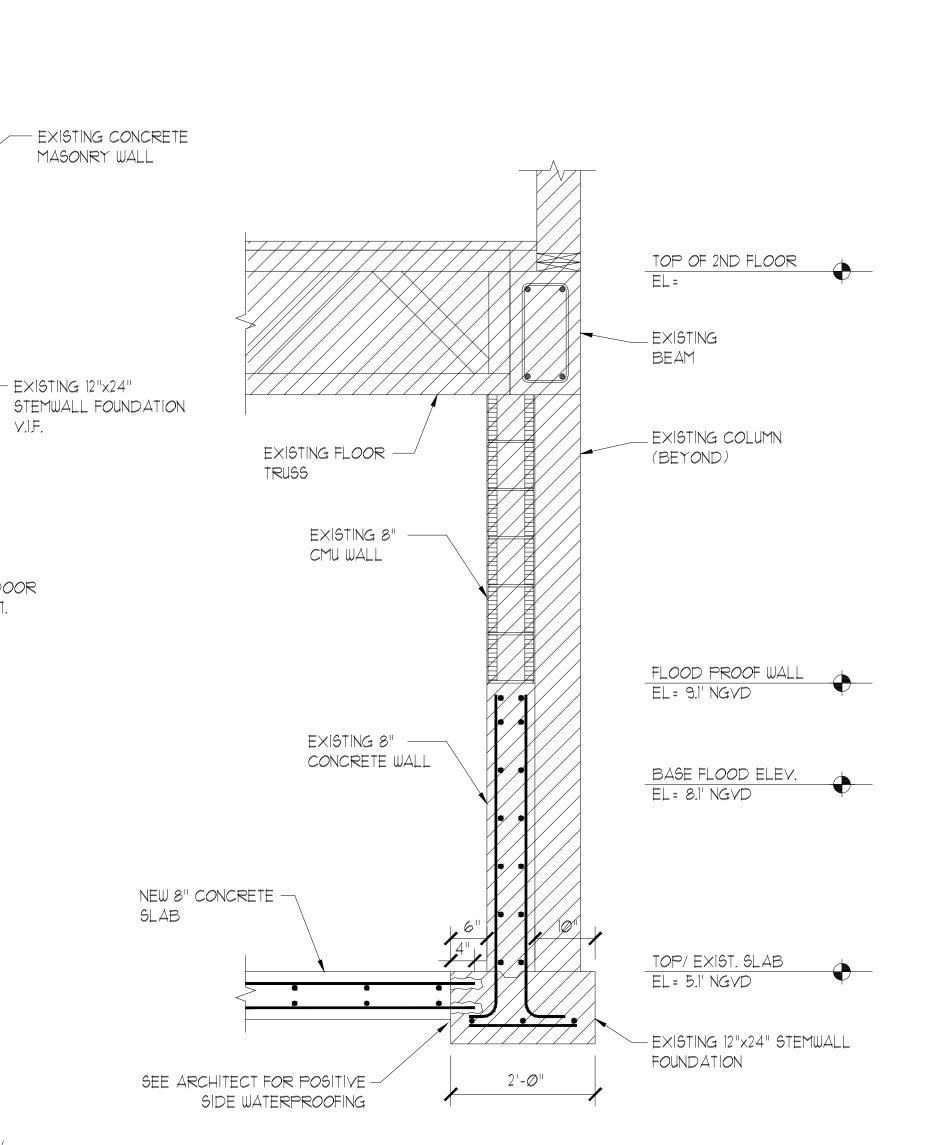
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1822 PLAN & DETAILS



WALL SECTION

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

FOUNDATION NOTES

1. TOP OF INTERIOR SLAB ELEVATION TO BE + 5.1 NAVD.

2. P MICRO PILES TO BE DESIGNED BY DELEGATED ENGINEER TO MEET THE SPECIFICATIONS AS OUTLINED IN THE WINGERTER LABORATORIES, INC REPORT a. SHAFT DIAMETER 6" ROUND b. TOTAL MIN. LENGTH 12'-0" c. POST GROUTED W/ 3000 PSI CONCRETE d. COM PRESSURE CAPACITY - 44 KIPS (22 TONS) e. TENSION CAPACITY - 24 KIPS (12 TONS)

- 8 KIPS (4 TONS)

3. DOWEL REINFORCEMENT FOR GRADE BEAM INTO EXISTING FOUNDATION AS SHOWN.

f. LATERAL CAPACITY

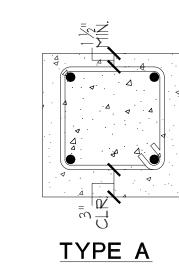
4. INSTALL 10 MIL. VAPOR BARRIER BELOW NEW SLAB U.N.O.

5. SEE ARCHITECT FOR DIMENSIONS AND ALL FLOOR ELEVATIONS.

6. STRUCTURAL SLAB TO BE 8", 4000 PSI CONCRETE W/ REINFORCEMENT AS SHOWN.

1. EXISTING EXTERIOR DOORS AND FLOOD PANELS TO REMAIN. AT OWNERS OPTION, FLOOD GATES ARE TO BE REMOVED & REPLACED OR PROOF WATER TESTED TO VERIFY THE FUNCTIONALITY OF THE EXISTING.

GRADE BEAM SCHEDULE								
MARK	SIZE	REINFORCING TOP BOT		STIRRUPS	REMARKS			
GB	16"x16"	(2) # 5	(2)#5	# 3 @ 12" O.C.	TYPE A			



NEW 8" CONCRETE SLAB-

FLOOR REPLACEMENT PLAN SCALE:1/8"=1'-0"

TOP STEEL ABOVE GRADE

BEAM#4 @ 8" O.C. x 7'-0" BOT.

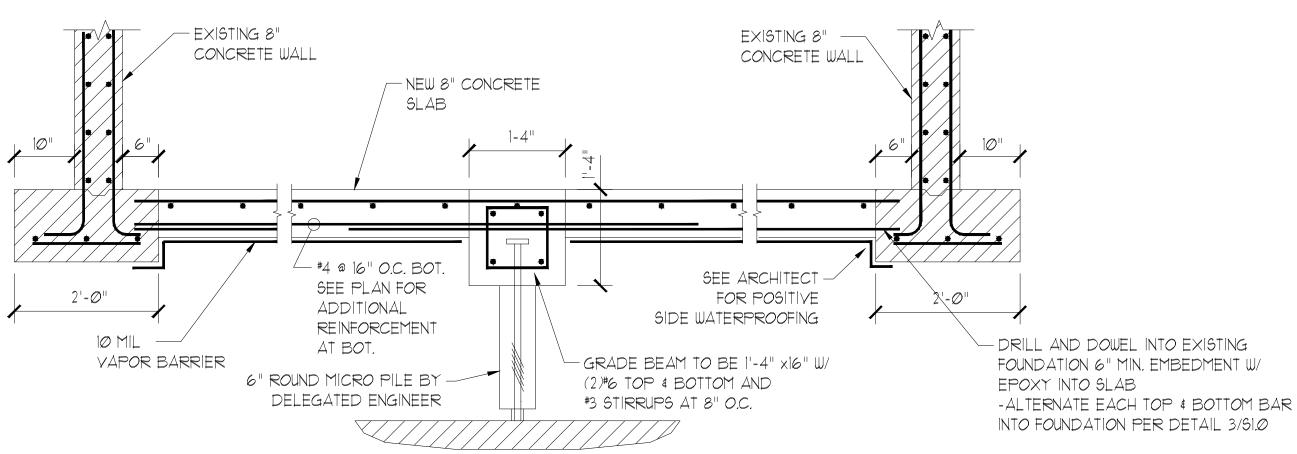
EXISTING WINDOW -

- EXISTING DOOR

SEE NOTE 7.

LOCATED ABOVE BASE

FLOOD ELEVATION



____ #4 @ 12" O.C.

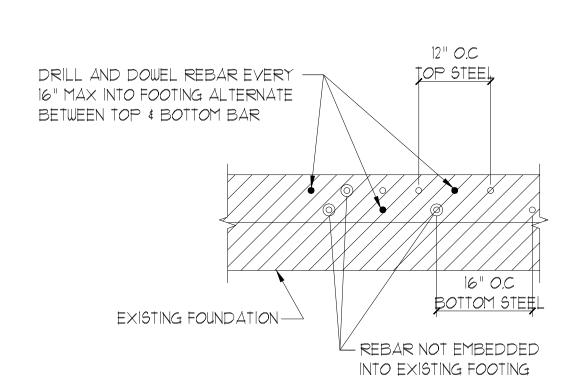
- NEW HELICAL PILES

- #4 @ 16" O.C.

BOT. TRANSVERSE

TOP EA. WAY

FLOOR REPLACEMENT SECTION



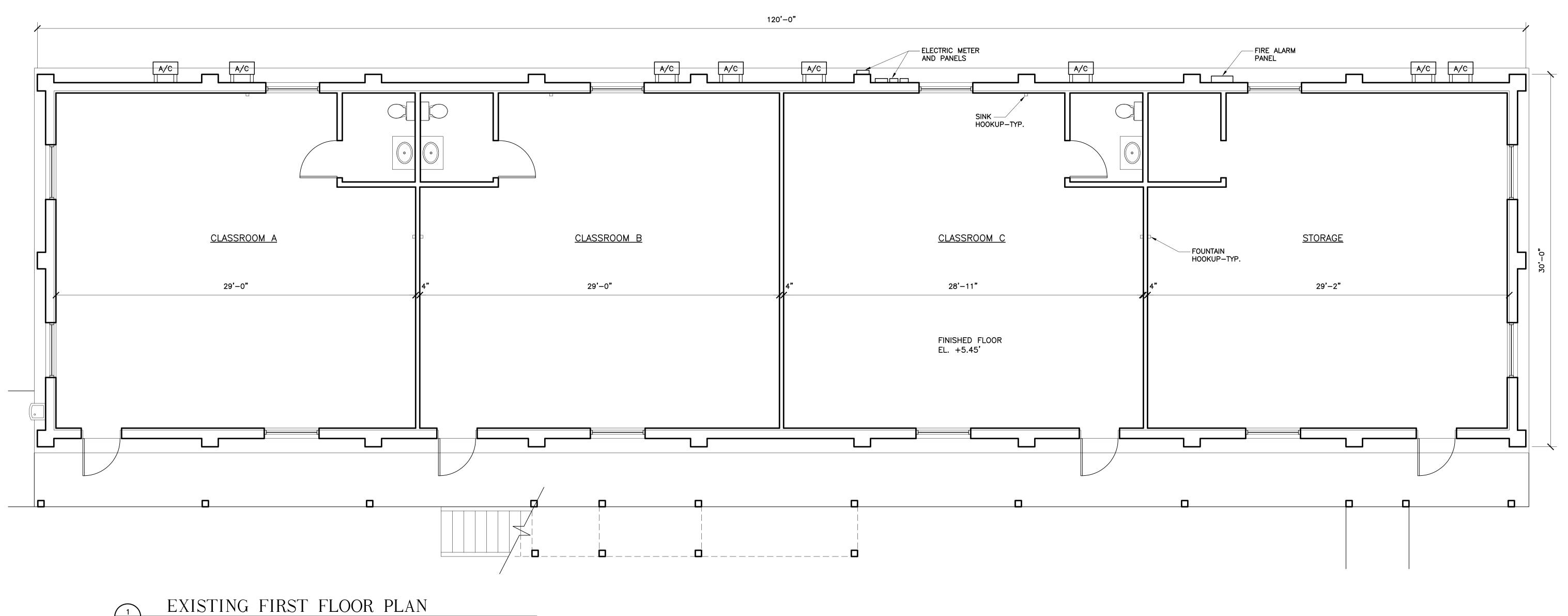
SCALE: 3/4"=1'-0"

REINFORCEMENT EMBEDMENT DETAIL SCALE: 3/4"=1'-0"

- EXISTING 12"x24"

- EXISTING DOOR

SEE NOTE 7.



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BIG PINE ACADEMY

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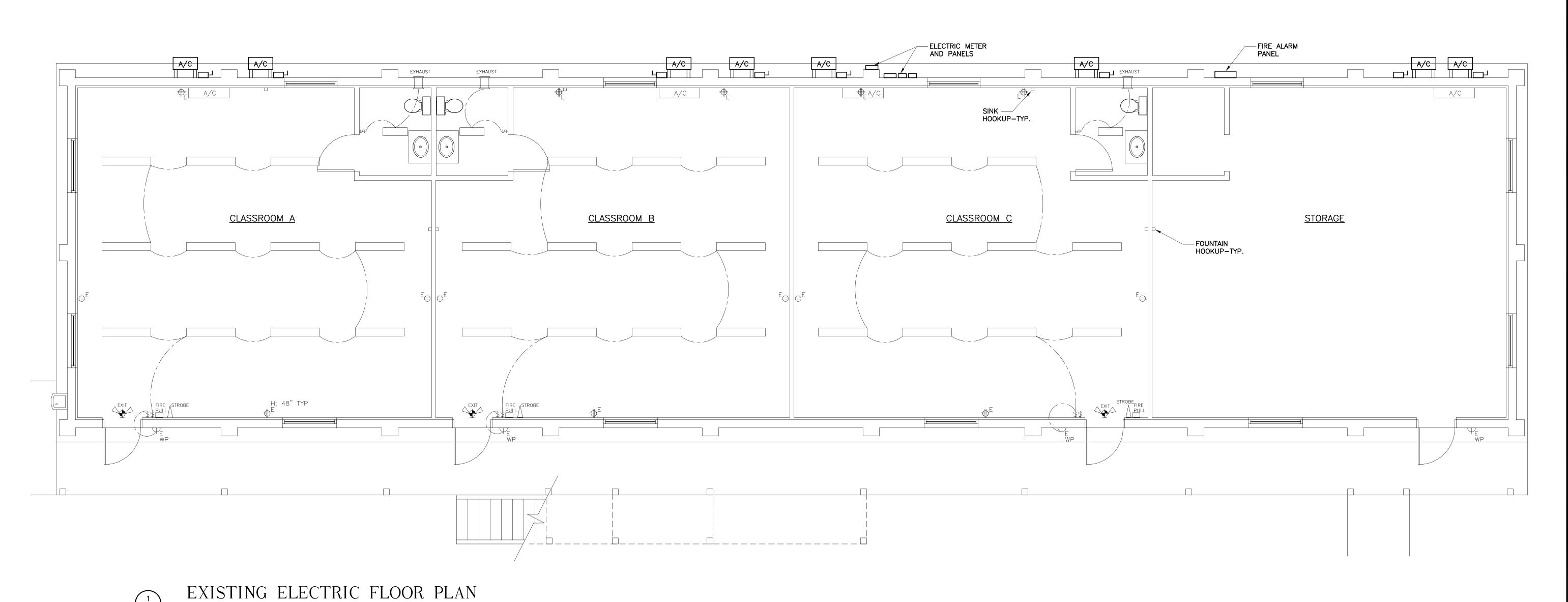
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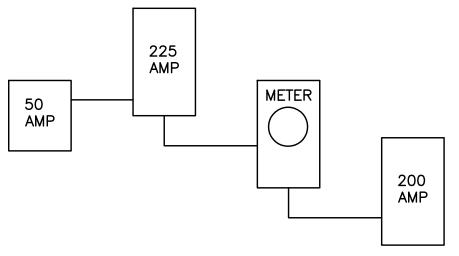
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SCALE: 1/4"=1'-0"



225 AMP 50 AMD

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



EXISTING RISER DIAGRAM

N.T.S.

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