

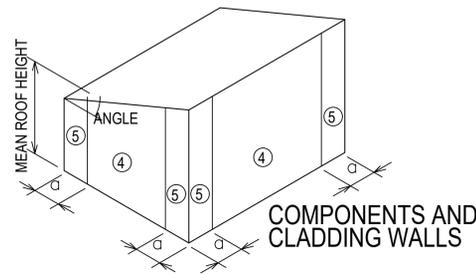
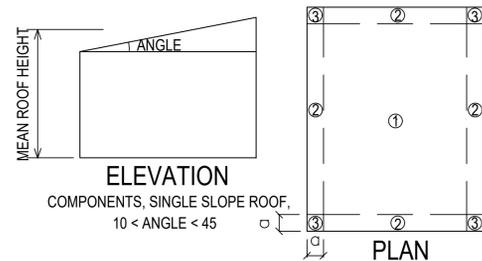
VETERANS MEMORIAL PARK

200 S 10th AVE
PENSACOLA, FLORIDA 32502

CITY OF PENSACOLA FLORIDA
ESCAMBIA COUNTY



NEW PROPOSED PROSPECTIVE VIEW



CONDENSED TABLE FIGURE 30.5-1, ASCE 7-10
COMPONENTS & CLADDING WIND LOADS, METHOD 1
FOR A BUILDING WITH A MEAN HEIGHT
OF 30 FEET LOCATED IN EXPOSURE B (PSF)

| ZONE | EFFECTIVE WIND AREA (SQ. FT) | BASIC WIND SPEED 160 MPH | |
|-----------------------|------------------------------|--------------------------|-------|
| ROOF ANGLE >7-27 DEG. | | | |
| 1 | 10.0 | 23.3 | 37.0 |
| 2 | 10.0 | 23.3 | 64.5 |
| 3 | 20.0 | 21.3 | 84.2 |
| WALL | | | |
| 4 | 10.0 | 40.5 | -43.9 |
| 5 | 10.0 | 40.5 | -54.2 |

A = 3.0'

CONDENSED TABLE FIGURE 30.5-1, ASCE 7-10
ROOF OVERHANG COMPONENTS & CLADDING
WINDLOADS, METHOD 1 FOR A BUILDING WITH
A MEAN HEIGHT OF 30 FEET LOCATED IN
EXPOSURE B (PSF)

| ZONE | EFFECTIVE WIND AREA (SQ. FT) | BASIC WIND SPEED 160 MPH |
|-----------------------|------------------------------|--------------------------|
| ROOF ANGLE >7-27 DEG. | | |
| 2 | 10.0 | -75.5 |
| 3 | 10.0 | -126.9 |

I CERTIFY THAT THESE PLANS WERE PREPARED BY ME
OR UNDER MY DIRECT SUPERVISION AND THAT I AM A
DULY LICENSED ARCHITECT IN THE STATE OF FLORIDA.

NAME: T. MARK LIPE
DATE: 6/22/2022
LIC #: FL AR 98510

STRUCTURAL NOTES:

GENERAL NOTES

- CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS WITHIN DOCUMENTS, OR BETWEEN DOCUMENTS AND CODES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS ON SITE BEFORE BEGINNING WORK. DIMENSION SHALL TAKE PRECEDENCE OVER SCALE.
- ALL HURRICANE CONNECTIONS SHALL BE INSTALLED PER SIMPSON STRONG TIE REQUIREMENTS
- THIS BUILDING TO NOT BE "SPRINKLED"

DESIGN LOADS:

- THIS BUILDING IS DESIGNED TO WITHSTAND ULTIMATE WIND SPEED, VULT OF 160 MPH (3-SEC GUST) AND NOMINAL WIND SPEED, VASD, OF 124 MPH PER FLORIDA BUILDING CODE 2020, SECTION 1609 AND ASCE 7-10.
- IMPORTANCE FACTOR (I) = 1.0
- WIND EXPOSURE CATEGORY "C"
- BUILDING CATEGORY - II
- INTERNAL PRESSURE COEFFICIENT, GCP: = +/- 18, CLOSED STRUCTURE
ROOF LIVE LOAD (LR) = 20 PSF.
ROOF DEAD LOAD (DL) = 10 PSF.

FOUNDATION NOTES:

- ALL FOOTINGS TO BEAR ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. COMPACTED SOILS SHALL BE TESTED TO A MIN. OF 95% OF MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557 AND COMPACTED AND TESTED IN LIFTS NOT TO EXCEED 12 INCHES.
- ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

CONCRETE NOTES:

- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS; 3000 PSI--NORMAL WEIGHT--UNLESS NOTED. WATER/CEMENT RATIO 0.45 OR LESS. CEMENT SHALL CONFORM TO ASTM C 150, TYPE I OR LL
- REINFORCING BARS : ASTM A615, GRADE 60.
- WELDED WIRE FABRIC (WWF) : ASTM A185. 6 X 6 W2.9/2.9
- REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE.
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY AN ENGINEER.
- CONCRETE COVERAGE OF REINFORCEMENT --- 3" BOTTOM AND SIDES, 2" TOP.
- EARTH SUPPORTED SLABS: (INCLUDING EXTERIOR WALK AND DRIVE SLABS) 4" THICK, REINFORCED WITH 6 X 6 W1.4X1.4 WWF AT MID-DEPTH TO UPPER 1/3 OF SLAB, UNLESS NOTED.
- CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- ALL UNDER SLAB AREAS TO BE TREATED FOR TERMITES BY A LICENSED APPLICATOR. OWNER TO RECEIVE RENEWABLE BOLD.

WOOD:

- ENGINEERED WOOD MATERIAL SUPPLIERS SHALL FURNISH ENGINEERING INFORMATION ON ALL SUPPLIED COMPONENTS. INSTALLATION INSTRUCTIONS MUST BE PROVIDED AT TIME OF DELIVERY FOR ANY FIELD BRACING AND/OR REINFORCEMENT TO SATISFY THE STRUCTURAL PERFORMANCE OF EACH COMPONENT.
- ALL LUMBER EXCEPT WALL FRAMING SHALL BE GROUP II, SOUTHERN YELLOW PINE. WITH A MIN. FB = 1200 PS. ALL WALL FRAMING STUDS SHALL BE LODGE POLE PINE WITH A MIN. FB = 1100 PS.

STEEL

- ALL HURRICANE CONNECTIONS SHALL BE INSTALLED PER SIMPSON STRONG TIE REQUIREMENTS AND BE STAINLESS STEEL INCLUDING NAILS. IF NOT AVAILABLE IN S.S. USE Z MAX COATING.

CODES

- ALL PARTS SHALL BE FURNISHED AND ERECTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING:
2020 FLORIDA BUILDING CODE
AMERICAN CONCRETE INSTITUTE
AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
AMERICAN PLYWOOD ASSOCIATION
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
AMERICAN INSTITUTE OF STEEL CONSTRUCTION

FLORIDA BUILDING CODE 2020:

1405.4 FLASHING: FLASHING SHALL BE INSTALLED IN SUCH A MANNER SO AS TO PREVENT MOISTURE FROM ENTERING THE WALL OR TO REDIRECT IT TO THE EXTERIOR. FLASHING SHALL BE INSTALLED AT THE PERIMETERS OF EXTERIOR DOOR AND WINDOW ASSEMBLIES, PENETRATIONS AND TERMINATIONS OF EXTERIOR WALL ASSEMBLIES, EXTERIOR WALL INTERSECTIONS WITH ROOFS, CHIMNEYS, PORCHES, DECKS, BALCONIES AND SIMILAR PROJECTIONS AND AT BUILT-IN GUTTERS AND SIMILAR LOCATIONS WHERE MOISTURE COULD ENTER THE WALL. FLASHING WITH PROJECTING FLANGES SHALL BE INSTALLED ON BOTH SIDES AND THE ENDS OF COPINGS, UNDER SILLS AND CONTINUOUSLY ABOVE PROJECTING TRIM.

1405.4.1 EXTERIOR WALL POCKETS: IN EXTERIOR WALLS OF BUILDINGS OR STRUCTURES, WALL POCKETS OR CREVICES IN WHICH MOISTURE CAN ACCUMULATE SHALL BE AVOIDED OR PROTECTED WITH CAPS OR DRIPS, OR OTHER APPROVED MEANS SHALL BE PROVIDED TO PREVENT WATER DAMAGE. 1405.4.2 MASONRY: FLASHING AND WEEP HOLES IN ANCHORED VENEER SHALL BE LOCATED IN THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION WALL OR SLAB, AND OTHER POINTS OF SUPPORT, INCLUDING STRUCTURAL FLOORS, SHELF ANGLES AND LINTELS WHERE ANCHORED VENEERS ARE DESIGNED IN ACCORDANCE WITH SECTION 1405.6.

DRAFTING ONLY
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OF KEYSTONE DESIGN LLC

DMG

DESIGN
MANAGEMENT
GROUP

6763 MARGARET ST.
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PHONE: (850)-983-2500
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email: eddiepotts@gmail.com

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PENSACOLA, FLORIDA 32502
ESCAMBIA, COUNTY



Keystone Design LLC
5804 Gulf Rd Milton, FL 32583
(404)-488-3564 tmark2000@gmail.com
FL Arch # 98510, Arch Auth # 26003637

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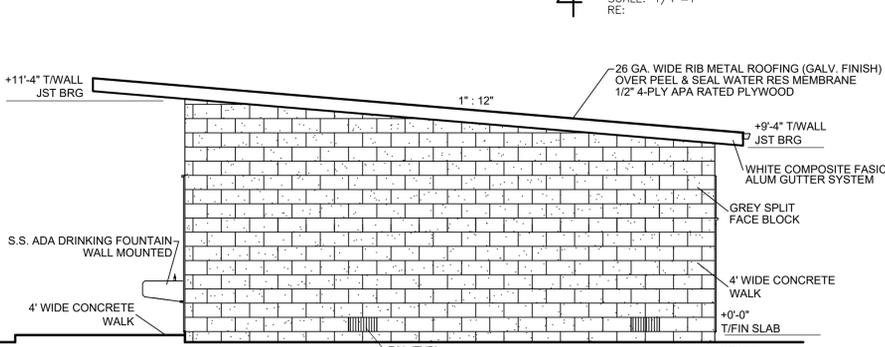
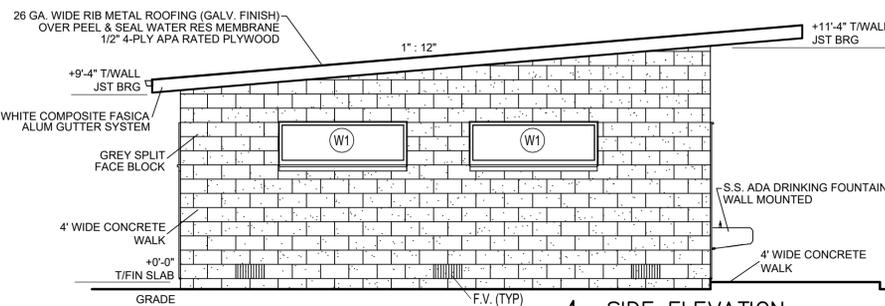
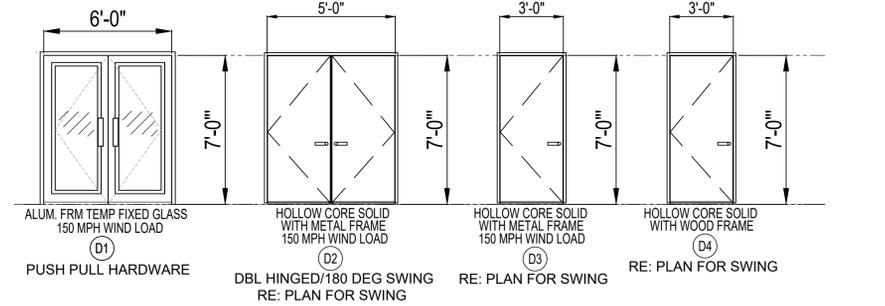
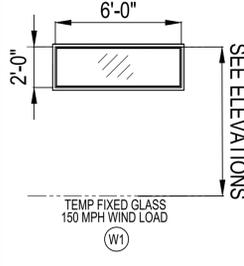
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JOB NO.
22-31
DATE
JUNE 21, 2022
SHEET

T1

6 OPENING SCHEDULE

| NO | DESCRIPTION | SIZE | EXT DR FINISH | INT DR FINISH | REMARKS |
|------|-------------|-------------------|---------------|---------------|-----------|
| (W1) | WINDOW | 6'-0" x 2'-0" | MFG PAINT | MFG PAINT | FIXED |
| (D1) | DOOR | (2) 3'-0" x 7'-0" | MFG PAINT | MFG PAINT | THRESHOLD |
| (D2) | DOOR | (2) 3'-0" x 7'-0" | MFG PAINT | MFG PAINT | THRESHOLD |
| (D3) | DOOR | 3'-0" x 7'-0" | MFG PAINT | MFG PAINT | THRESHOLD |
| (D4) | DOOR | 3'-0" x 7'-0" | PAINT | PAINT | |



GENERAL NOTES

A ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES.

B THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.

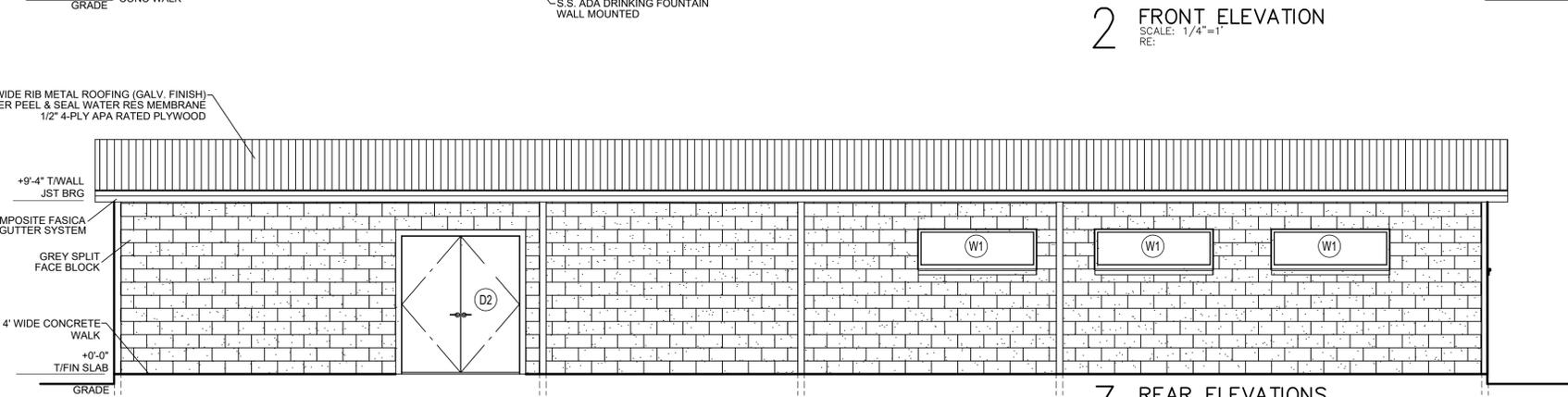
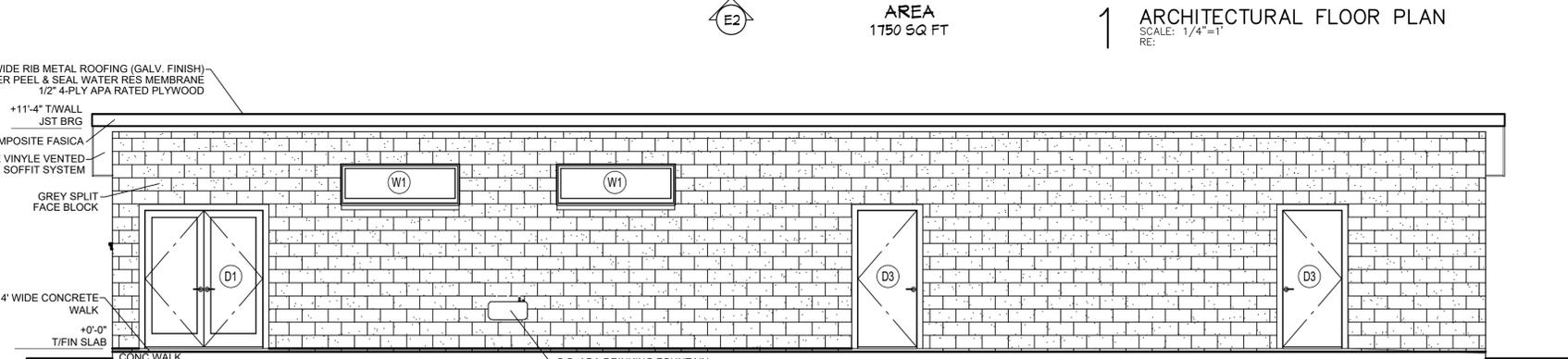
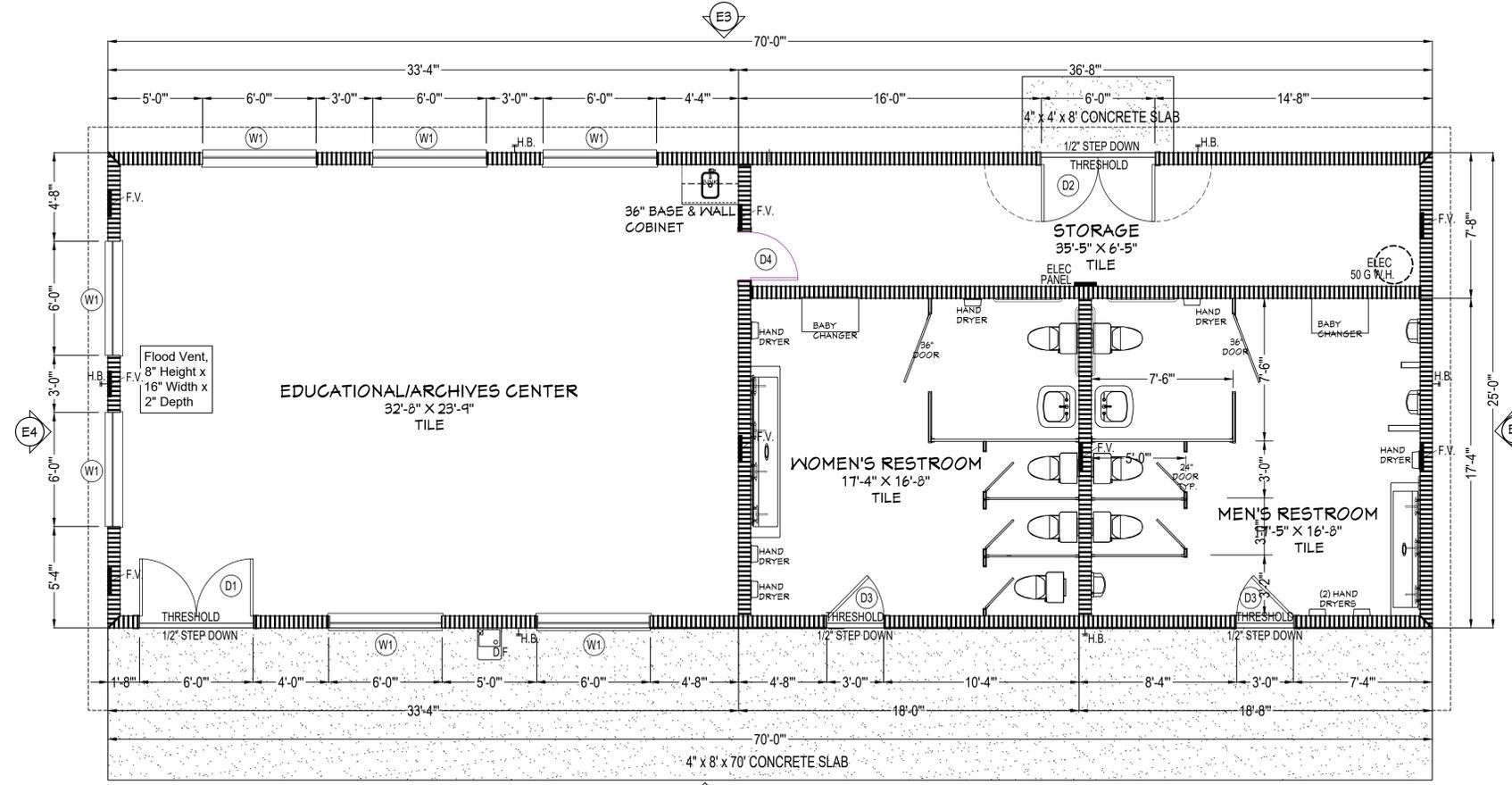
C THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES.

D THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS, DIMENSIONS, AND FIELD CONDITIONS TO THE DESIGNER AND THE OWNER.

E THE CONTRACTOR IS TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL AND PLUMBING INSPECTIONS, ETC.

F ALL DIMENSIONS ARE GIVEN TO ROUGH FRAMING AND / OR MASONRY UNLESS NOTED.

G CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE CLEANING AND REMOVAL OF ALL DEBRIS UNTIL THE PREMISES ARE ACCEPTED IN A CLEAN, HABITABLE CONDITION BY THE OWNER.



1 ARCHITECTURAL FLOOR PLAN
SCALE: 1/4"=1'
RE:

2 FRONT ELEVATION
SCALE: 1/4"=1'
RE:

3 REAR ELEVATIONS
SCALE: 1/4"=1'
RE:

DRAFTING ONLY
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OF KEYSTONE DESIGN LLC

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JOB NO.
22-31

DATE
JUNE 21, 2022

SHEET

I CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT IN THE STATE OF FLORIDA.

NAME: T. MARK LIPE
DATE: 6/22/2022
LIC #: FL AR 98510

A1



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DATE: 6/22/2022
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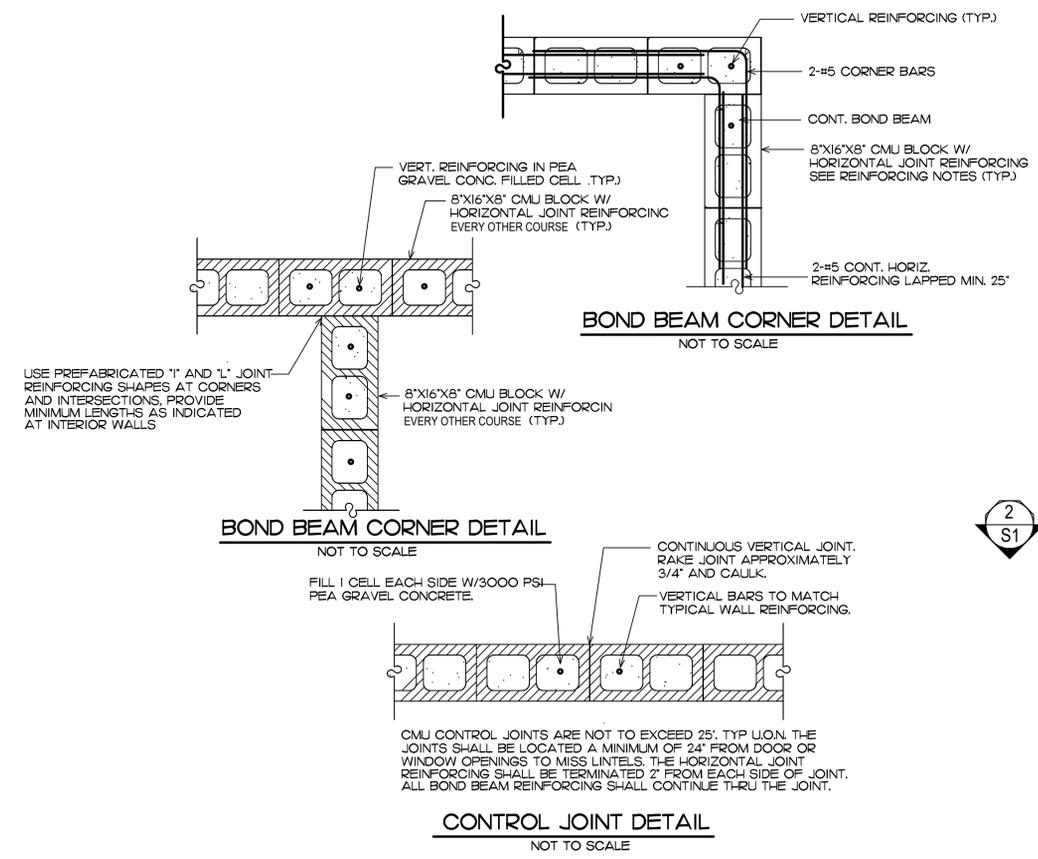
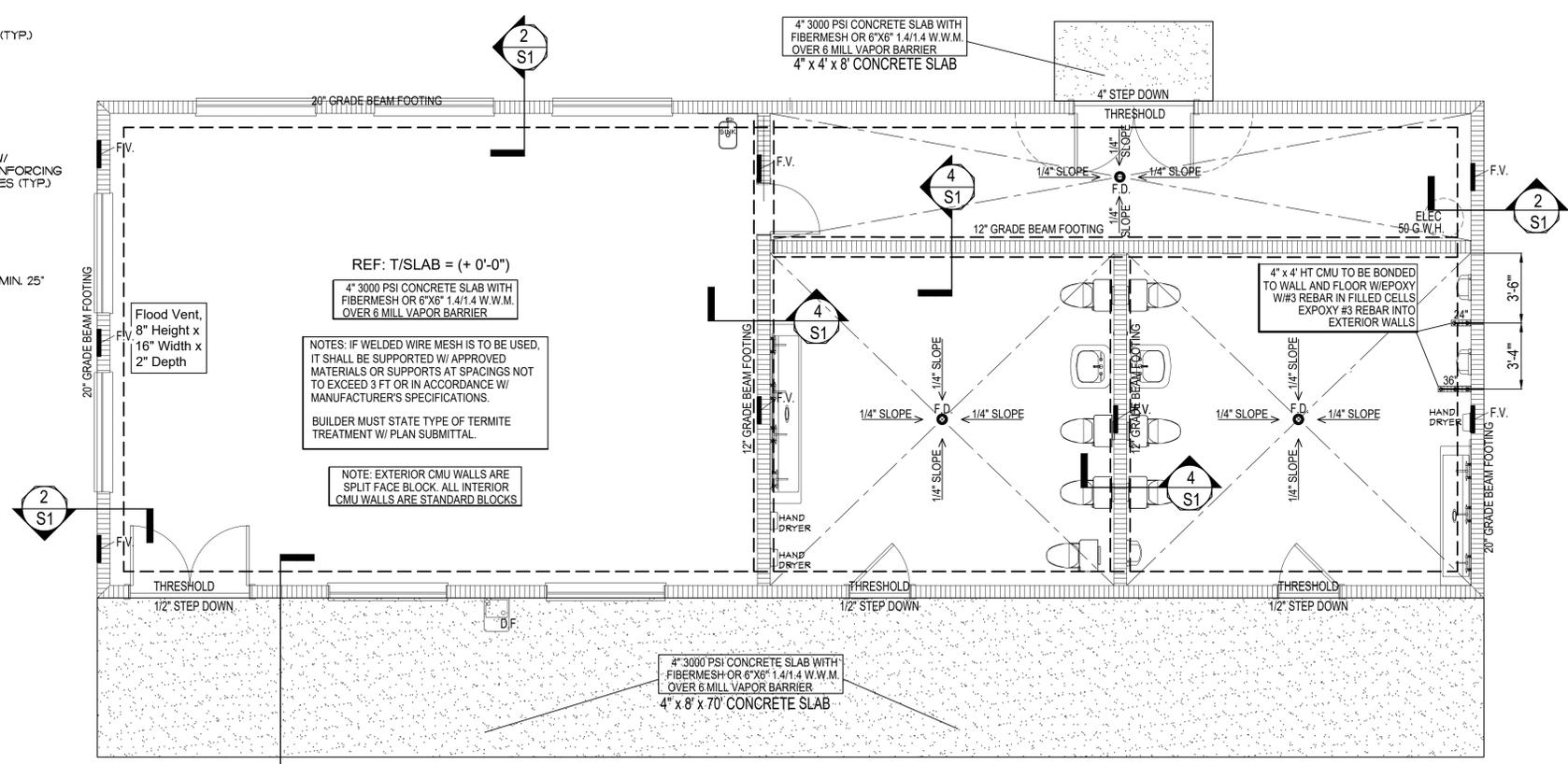
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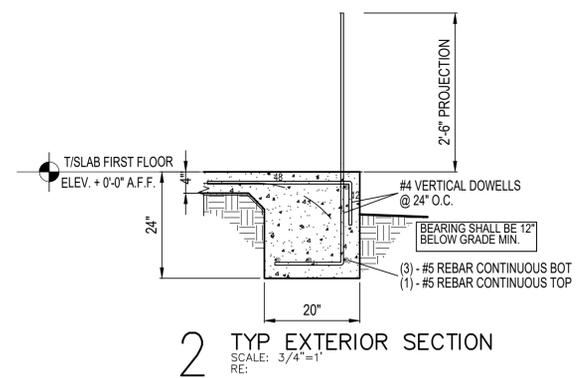
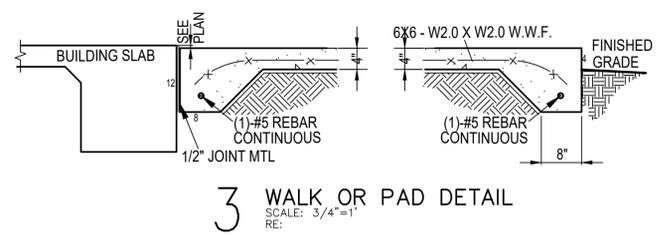
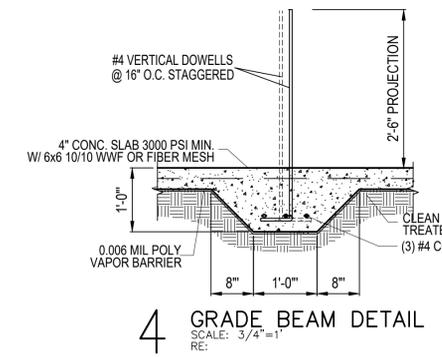
DATE
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SHEET
S1

FOUNDATION PLAN



SEALANT FOR EXTERIOR SPLIT FACE BLOCK OR EQUAL (SEND SPECS TO ARCHITECT FOR APPROVAL)



- GENERAL FOUNDATION NOTES:**
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS; 3000 PSI-NORMAL WEIGHT--UNLESS NOTED WATER/CEMENT RATIO 0.45 OR LESS.
 - REINFORCING BARS - ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC (WWF); ASTM A185 6 X 6 W2.0/2.9
 - REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE.
 - DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY AN ENGINEER.
 - LAP REINFORCEMENT SPLICES 20" MIN. AT CORNERS LAP 25" MIN.
 - CONCRETE COVERAGE OF REINFORCEMENT GRADE BEAMS -- 3" BOTTOM AND SIDES, 2" TOP.
 - EARTH SUPPORTED SLABS (INCLUDING EXTERIOR WALK AND DRIVE SLABS) 4" THICK, REINFORCED WITH 6 X 6 W1.4X1.4 WWF AT MID-DEPTH TO UPPER 1/3 OF SLAB, UNLESS NOTED.
 - CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
 - ALL UNDER SLAB AREAS TO BE TREATED FOR TERMITES BY A LICENSED APPLICATOR. OWNER TO RECEIVE RENEWABLE BOLD.
 - ALL FOOTINGS TO BEAR ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. COMPACTED SOILS SHALL BE TESTED TO A MIN. OF 95% OF MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557 AND COMPACTED AND TESTED IN LIFTS NOT TO EXCEED 12 INCHES.



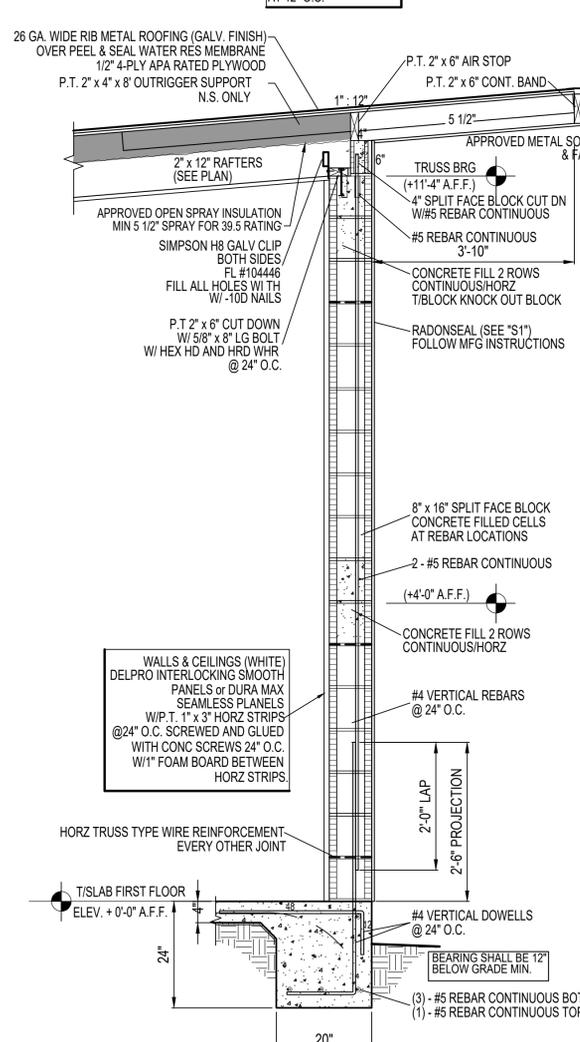
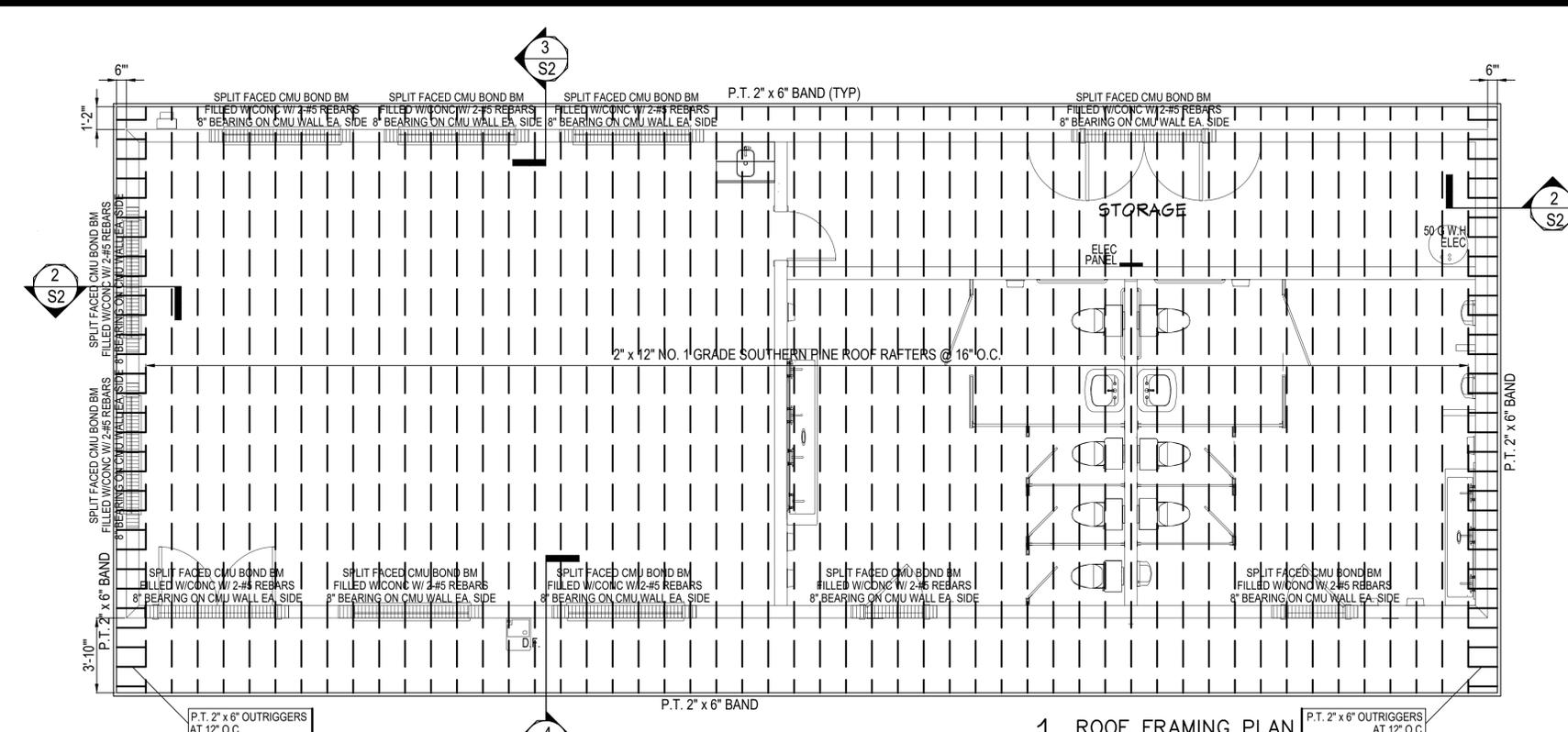
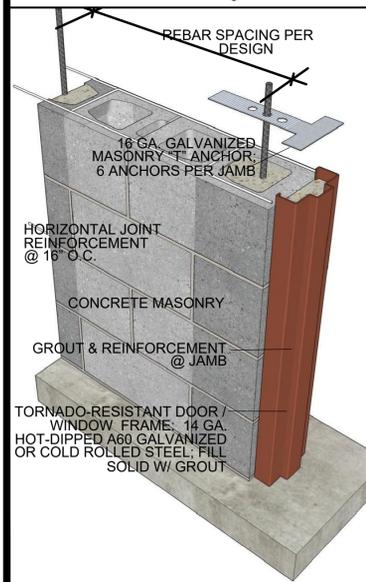
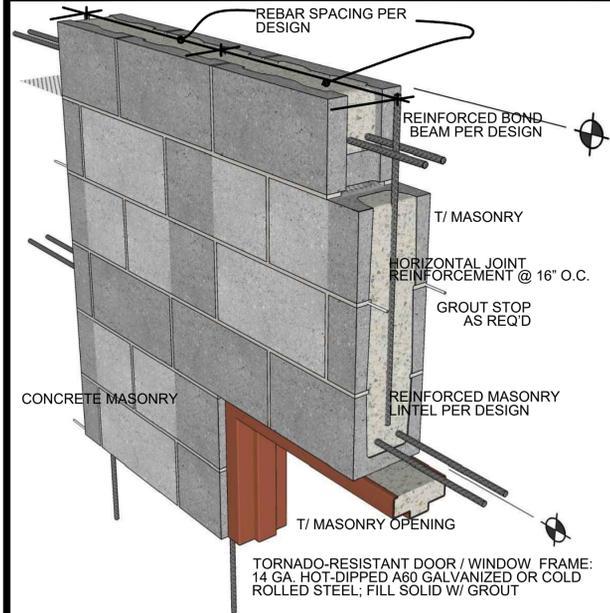
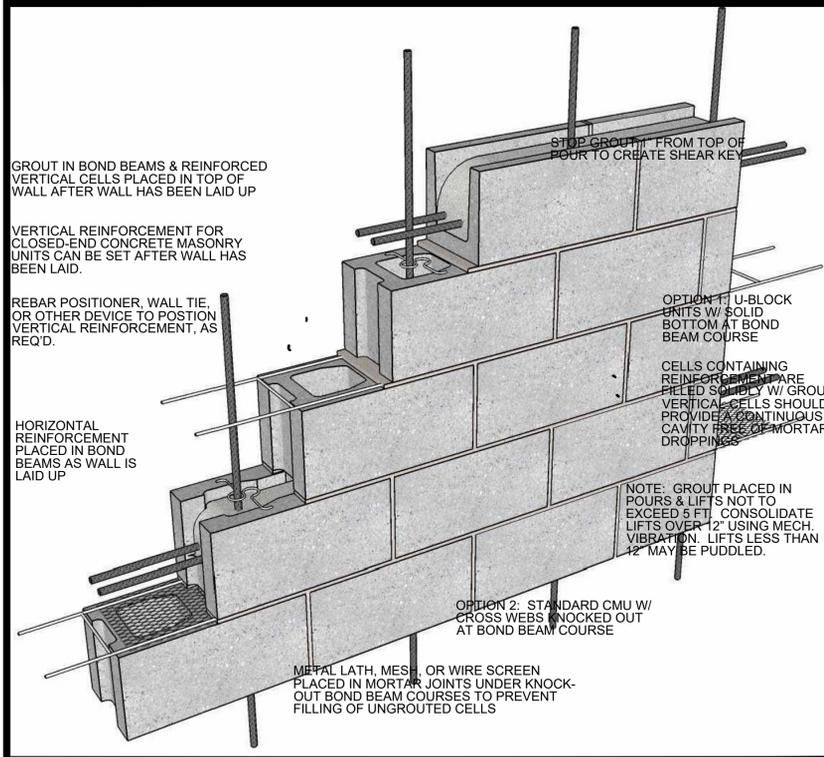
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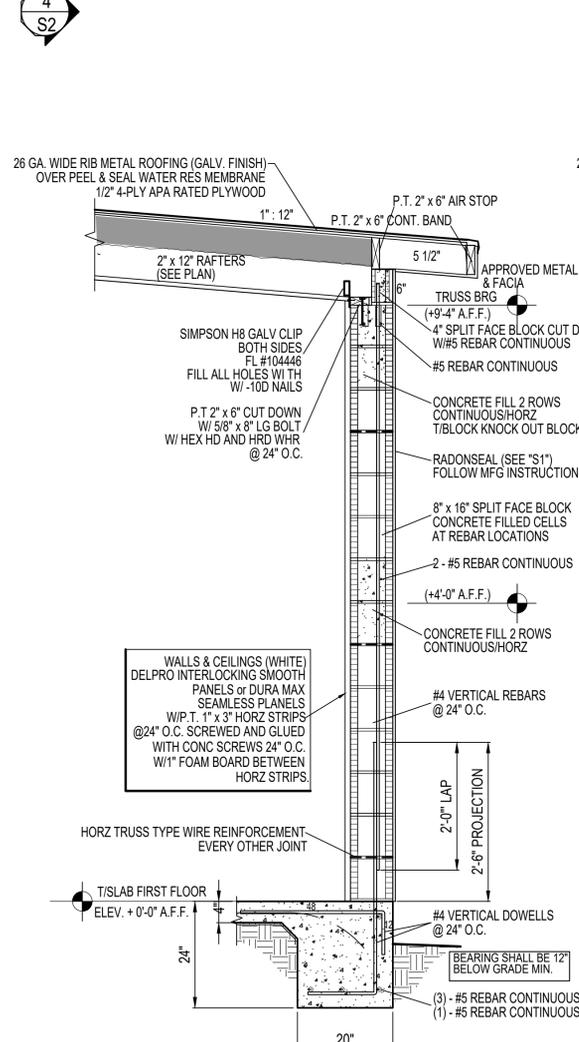
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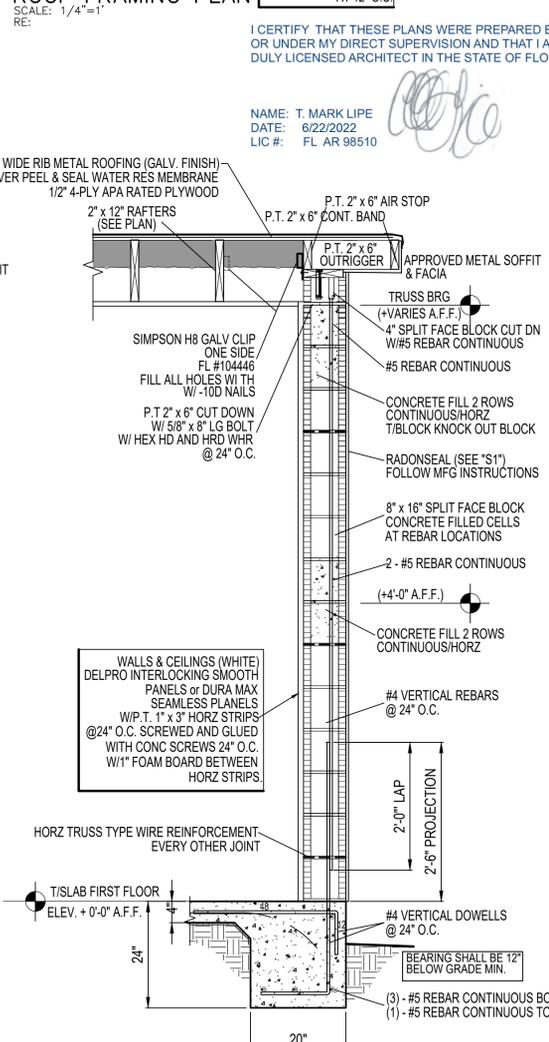
S2
ROOF FRAMING PLAN



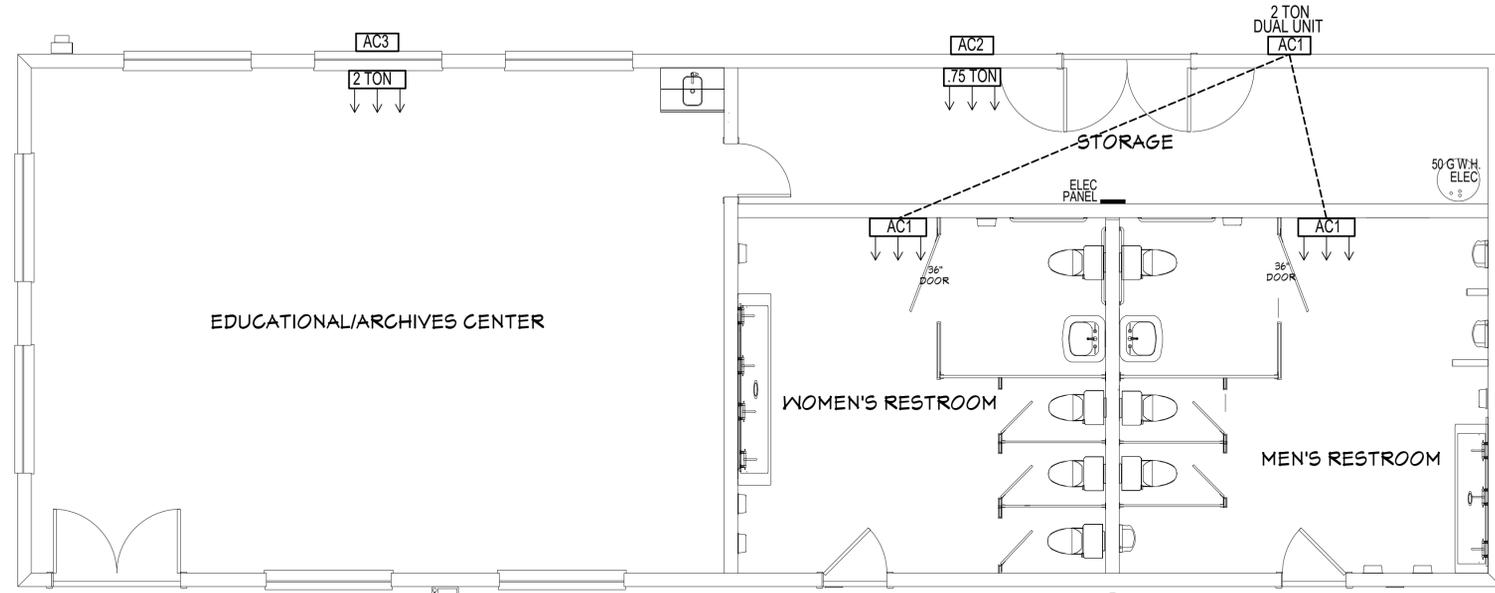
4 EXTERIOR WALL DETAIL (FRONT)
SCALE: 3/4"=1' RE.



3 EXTERIOR WALL DETAIL (REAR)
SCALE: 3/4"=1' RE.



2 EXTERIOR WALL DETAIL (SIDES)
SCALE: 3/4"=1' RE.



MECHANICAL LAYOUT ARE SUGGESTIVE. SEE MECHANICAL FOR ANY ADDITIONAL CONNECTIONS OR CHANGES TO LAYOUT.

SEE ATTACHED FOR MECHANICAL SPECS

1 MECHANICAL PLAN
SCALE: 1/4"=1'
RE:

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of KEYSTONE DESIGN LLC

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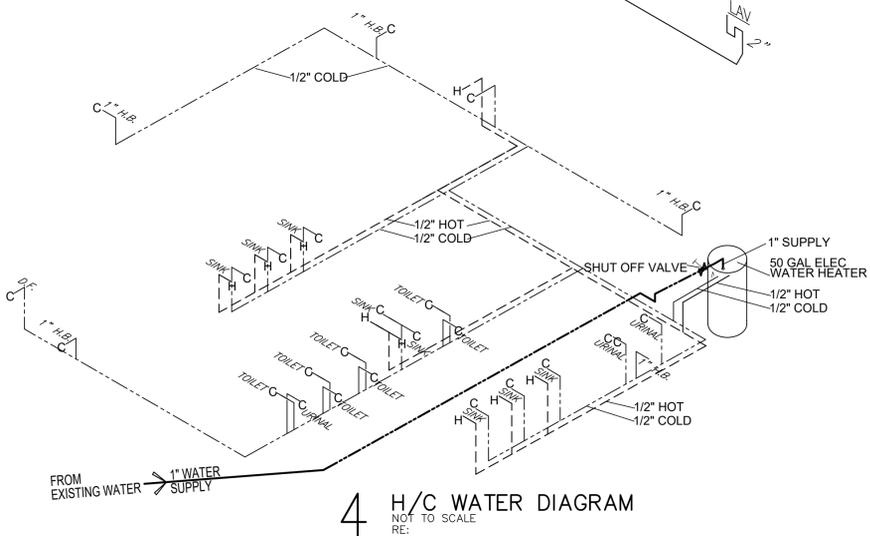
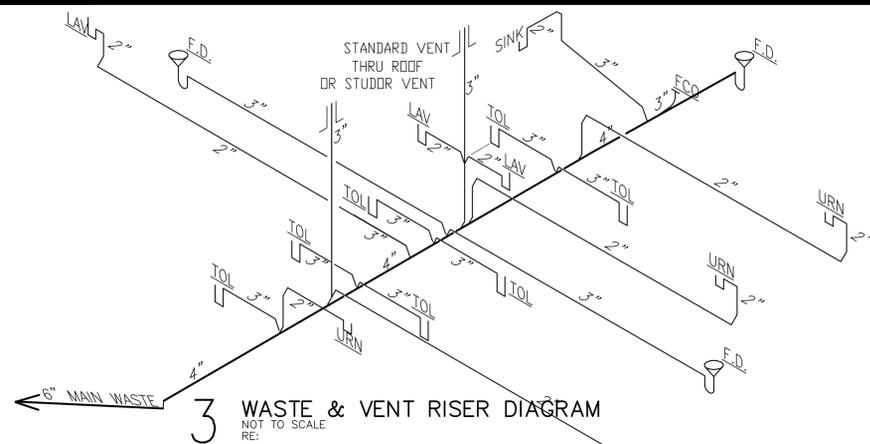
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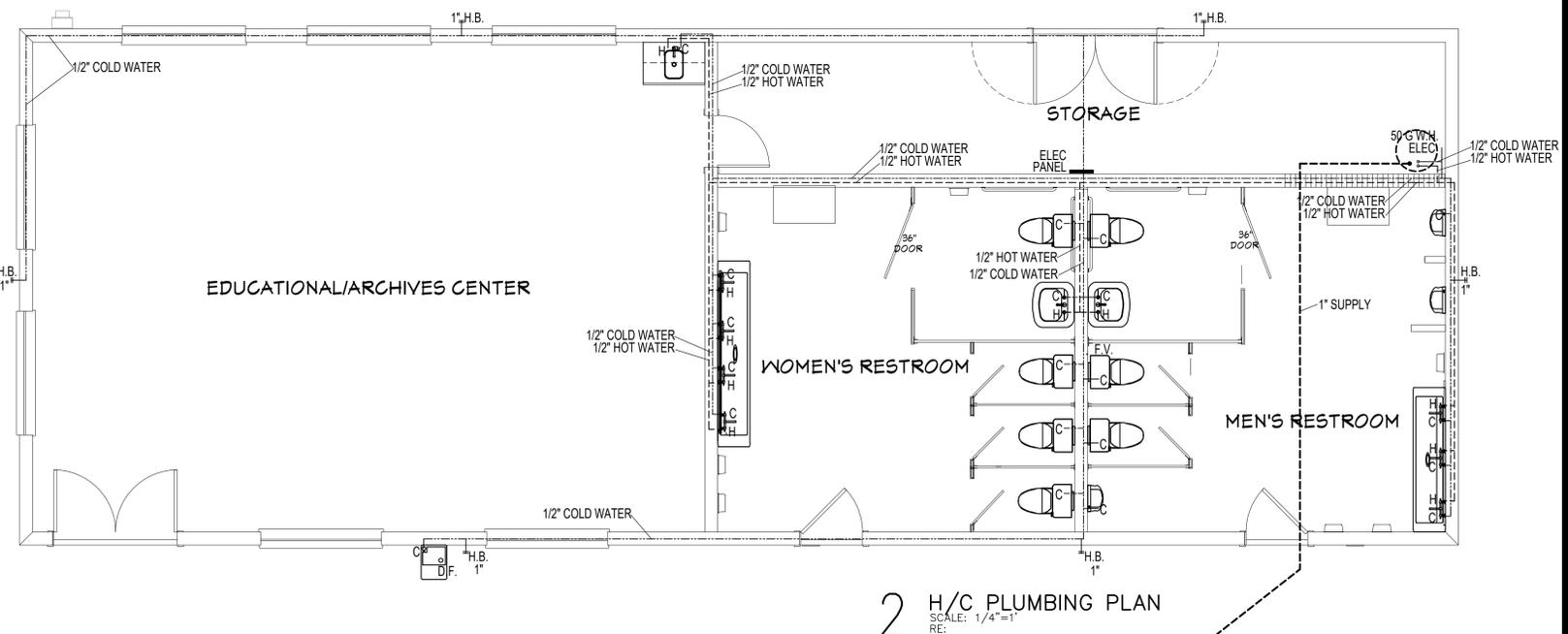
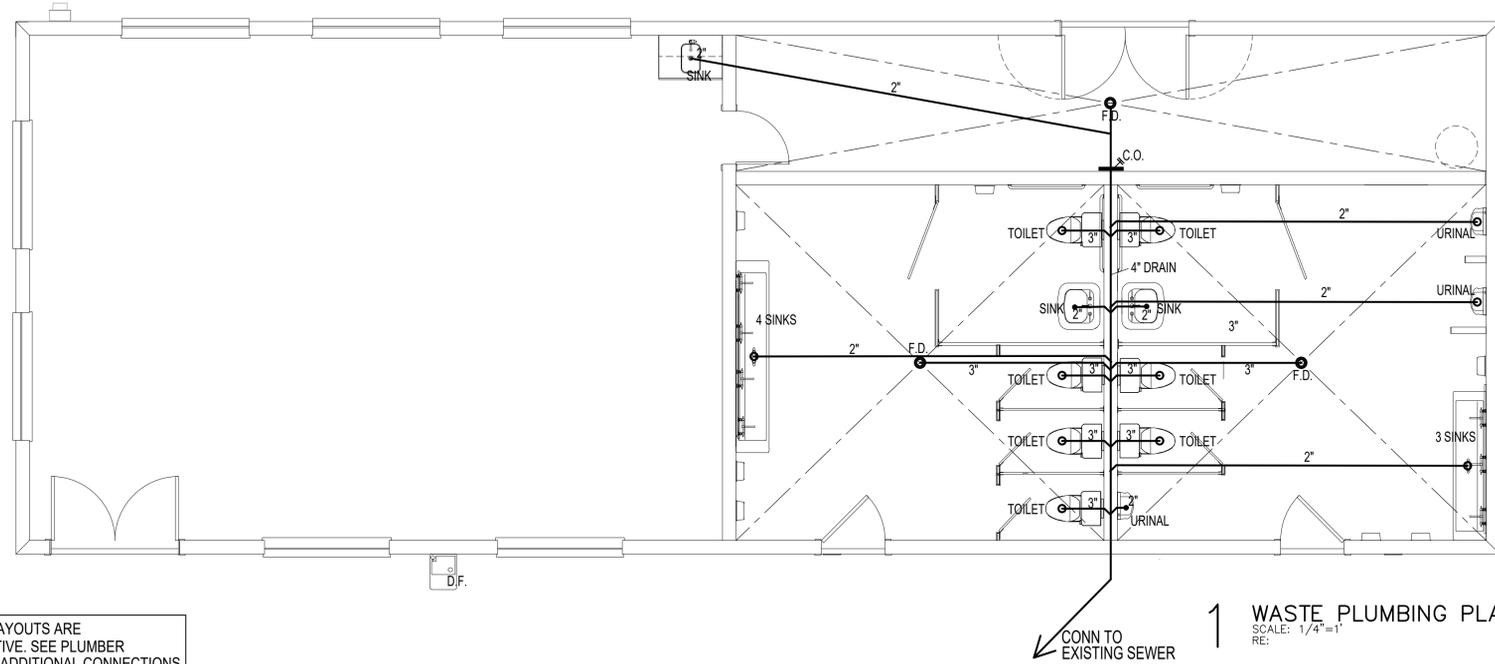
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WASTE LAYOUTS ARE
SUGGESTIVE. SEE PLUMBER
FOR ANY ADDITIONAL CONNECTIONS
OR CHANGES TO LAYOUT.



- GENERAL PLUMBING NOTES**
1. ALL PLUMBING WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD PLUMBING CODE WHICH HAS JURISDICTION AT THIS JOB SITE.
 2. ALL SANITARY SOL., WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT WELD PVC DRAINAGE FITTINGS. GRADE ALL 4" PIPE @ 1/8" PER FOOT AND ALL 2" & 3" PIPE @ 1/4" PER FOOT.
 3. ALL WATER PIPING FROM A POINT 5'-0" OUTSIDE OF BUILDING TO ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE TYPE 'L' HARD DRAWN COPPER WITH 'LEAD FREE' SOLDER JOINTS. OUTSIDE PIPING BELOW GRADE WILL BE SCHEDULE 40 PVC PRESSURE PIPE AND FITTINGS.
 4. INSULATE ALL WATER PIPING LOCATED ABOVE GRADE WITH 1 1/2" SECTIONAL FIBERGLASS PIPE COVERING WITH AN ASJ JACKET PROTECT ALL HANGER POINTS WITH METAL SHIELDS.
 5. WORK SHALL INCLUDE ALL APPURTENANCES ASSOCIATED WITH THE PLUMBING SYSTEM AS SHOWN ON THE PLANS. THIS SHALL INCLUDE ALL PIPE, FITTINGS, HANGERS, TRENCHING, BACKFILLING, ETC AS REQUIRED FOR A COMPLETE AND OPERABLE SANITARY PLUMBING SYSTEM.
 6. TEST ALL WATER AND WASTE SYSTEMS IN ACCORDANCE WITH THE STANDARD PLUMBING CODE. FILE TEST REPORTS WITH OWNER AT COMPLETION OF PROJECT.
 7. ENTIRE NEW WATER SYSTEM SHALL BE FLUSHED AND STERILIZED BEFORE OCCUPANCY BY OWNER. STERILIZATION SHALL BE IN ACCORDANCE WITH THE LOCAL HEALTH DEPARTMENT'S INSTRUCTION.

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SPECIFICATIONS

GENERAL

ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE WITH LOCAL AMENDMENTS, INCLUDING STATE, COUNTY AND CITY ELECTRICAL CODES, AND AUTHORITIES HAVING JURISDICTION.

ALL EQUIPMENT SHALL BE NEW AND U.L. APPROVED, UNLESS SPECIFICALLY NOTED OTHERWISE

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL THE NECESSARY BENDS, OFFSETS, PULLBOXES AND OBSTRUCTIONS. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT. INSTALL NEW WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

PRIOR TO SUBMITTING A BID, CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS WITHIN THE SCOPE OF WORK. BY THE ACT OF SUBMITTING A BID, IT SHALL BE UNDERSTOOD THAT SUCH AN EXAMINATION HAS BEEN COMPLETED, AND THAT ALLOWANCES FOR THE EXISTING CONDITIONS HAVE BEEN MADE.

VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. WHEN LOCATING BOXES AND OUTLETS, CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO THE OWNER.

COORDINATE WITH ALL TRADES, INCLUDING ELECTRICAL REFERENCES ON THE ARCHITECTURAL DRAWINGS. FURNISH AND INSTALL WIRING FOR EQUIPMENT PROVIDED BY OTHERS. "WIRING" INCLUDES FURNISHING AND INSTALLING CONDUIT, CONDUCTORS, BOXES, AND DISCONNECTS (AS SPECIFIED) AND MAKING FINAL CONNECTIONS.

ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK ARE SECURED AND PAID BY CITY OF PENSACOLA.

CUT AND PATCH EXISTING CONSTRUCTION WORK REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL MATCH ALL SURROUNDING WORK.

AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM SITE. CONDITIONS MUST BE "BROOM-CLEAN".

LIGHTING FIXTURES

FURNISH AND INSTALL LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS. ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR FIXTURE LOCATION. ELECTRICAL DRAWINGS TAKE PRECEDENCE FOR FIXTURE TYPE AND VOLTAGE. COORDINATE FIXTURE HOUSINGS AND TRIMS WITH CEILING TYPE. PROVIDE REQUIRED ACCESSORIES FOR CEILING TYPES.

FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE SIMILAR TO BODINE #B50. COORDINATE WITH FIXTURE MANUFACTURER FOR BATTERY PACK MOUNTING. PROVIDE UNSWITCHED SOURCE OF POWER TO EMERGENCY BALLAST OF SWITCHABLE EMERGENCY LIGHTS.

DISTRIBUTION EQUIPMENT

ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS INDICATED, IN STEEL CABINETS CODE GAUGE, WITH STEEL TRIM CONCEALED HINGES, DOOR-IN-DOOR AND FLUSH TYPE LOCKS, ALL KEYED ALIKE, MANUFACTURED BY SQUARE D, ABB-GENERAL ELECTRIC, OR Eaton.

ALL BUSSES, INCLUDING NEUTRAL AND GROUND BUS, SHALL BE MINIMUM 98% CONDUCTIVITY, HARD DRAWN COPPER, SILVER OR TIN-PLATED JOINTS AND SIZED ON THE BASIS OF 100 AMPERES PER INCH CROSS-SECTIONAL AREA. BUSSES SHALL BE ARRANGED FOR SEQUENCING PHASING.

PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES, TRIP SIZES, AS SHOWN IN DRAWINGS AND INTERRUPTING CAPACITY AS PER BUILDING REQUIREMENTS.

CABINETS SHALL BE OF SUFFICIENT SIZE TO ALLOW A GUTTER SPACE OF AT LEAST 6" ON SIDES, TOP AND BOTTOM.

BACK BOXES SHALL BE CONSTRUCTED OF CODE GAUGE SHEET STEEL. GALVANIZED TRIMS SHALL BE PRIMED FOR FINISH PAINTING BY OTHERS.

DOORS AND TRIM SHALL EACH BE IN ONE PIECE SO DESIGNATED THAT DOORS WILL OPEN 180 DEGREES. DOORS SHALL BE FASTENED TO TRIMS WITH SEMI-CONCEALED, 5 KNUCKLE STEEL WITH NONFERROUS PINS. TRIMS SHALL BE FASTENED TO BACK BOXES BY SCREWS.

A CIRCUIT DIRECTORY WITH METAL FRAME AND GLASSINE PAGE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. UPON COMPLETION OF THE PROJECT, THE DIRECTORY SHALL BE TYPEWRITTEN, INDICATING THE SERVICE CONTROLLED BY EACH CIRCUIT FOR NEW AND EXISTING PANELBOARDS.

GROUP ALL CONDUCTORS WITHIN PANEL ENCLOSURE. DO NOT SPLICE CONDUCTORS WITHIN PANEL ENCLOSURE.

CLEAN, VACUUM, AND TIGHTEN ALL CONNECTORS AND CONNECTIONS IN EXISTING ELECTRICAL EQUIPMENT REUSED.

DISCONNECT SWITCHES SHALL BE QMQB FUSED OR NON-FUSED (AS NOTED OR REQUIRED) NEMA HEAVY DUTY EXTERNALLY OPERATED WHERE NOT FURNISHED WITH STARTING EQUIPMENT AND AT ALL OTHER POINTS REQUIRED BY CODE. FUSES SHALL BE BUSSMAN OR GOULD CURRENT LIMITING TYPE, MINIMUM 100,000 AIC. CIRCUIT BREAKER MINIMUM 10,000 AIC FOR 120/208V SYSTEM AND MINIMUM 14,000 AIC FOR 277/480V SYSTEM, UNO.

PROVIDE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT. NAMEPLATES TO BE ENGRAVED THREE LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND FOR EQUIPMENT 250 VOLTS AND UNDER, AND WHITE LETTERS ON A RED BACKGROUND FOR EQUIPMENT OVER 250 VOLTS.

DEVICES

DUPLEX RECEPTACLES FOR WALL AND FLOOR CONVENIENCE OUTLETS SHALL BE 2 POLE, 3 WIRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R. COLOR SHALL BE BASE BUILDING STANDARD.

FLUSH FIRE-RATED POKE THROUGH DEVICE SHALL HAVE A DUPLEX RECEPTACLE RATED FOR 20 AMPERES WITH TWO (2) FLUSH CATEGORY 5e JACKS WITH A 3" CORE HOLE SIZE, AND A SOLID BRASS FACEPLATE.

SINGLE POLE SWITCHES SHALL BE 20 AMPERE BASE BUILDING STANDARD AS APPROVED BY ARCHITECT.

DEVICE SHALL BE MOUNTED UNDER COMMON COVERPLATE WHERE MULTIPLE DEVICES ARE INDICATED.

TOGGLE SWITCH WITH OVERLOAD PROTECTION AND INDICATOR LIGHT FOR EXHAUST FANS, SIMILAR TO ALLEN BRADLEY CATALOG #600-TAX4 HEATER ELEMENT.

RACEWAY

ALL WIRE AND CABLE SHALL BE INSTALLED IN CONDUIT. CONCEAL CONDUIT IN FINISHED AREAS AND PROTECTED IN UNFINISHED AREAS.

ELECTRICAL METALLIC TUBING (EMT) WITH SET-SCREW COUPLINGS AND FITTINGS, MAY BE USED IN FINISHED AREAS. EMT CAN ALSO BE USED IN UNFINISHED AREAS WHERE IT IS PROTECTED BY A COLUMN WEB OR JOIST SPACE.

PROVIDE SCHEDULE 40 PVC CONDUIT IN AREAS WHERE CONDUIT IS SUSCEPTIBLE TO PHYSICAL DAMAGE.

SCHEDULE 40 PVC CONDUIT SHALL BE INSTALLED BELOW GRADE.

CUT CONDUIT END SQUARE, REAM SMOOTH. PAINT MALE THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT TO RACEWAY COUPLINGS.

PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY SHALL BE INSTALLED WITHIN 3" OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1" FROM PIPE COVER.

RUN ALL RACEWAYS PARALLEL AND/OR PERPENDICULAR TO BUILDING WALLS.

SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS.

MAKE FINAL CONNECTIONS TO MOTORS, VIBRATING EQUIPMENT AND WATER HEATERS WITH LIQUID-TIGHT FMC (FLEXIBLE METALLIC CONDUIT) AND CONNECTORS. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

MAIN TELEPHONE CONDUIT FROM EQUIPMENT ROOM TO BASE BUILDING TELEPHONE CLOSET SHALL HAVE WIDE SWEEP BENDS.

CONDUITS ROUTED TO ROOF SHALL BE ROUTED ALONG MECHANICAL PIPING RUNS AND SHALL BE AS APPROVED BY BUILDING OWNER.

INDICATE, USING MARKING PEN, PANELBOARD AND CIRCUIT DESIGNATIONS ON ALL CONDUIT HOMERUNS AND JUNCTION BOXES.

CONDUCTORS

ALL WIRE AND CABLE SHALL BE COPPER, SIZES AS INDICATED ON THE DRAWINGS. MINIMUM CONDUCTOR SIZE SHALL BE #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR SIGNAL AND CONTROL CIRCUITS. ALL #8 AWG WIRE AND LARGER SHALL BE STRANDED. ALL #10 AWG WIRE AND SMALLER SHALL BE SOLID. INSULATION SHALL BE TYPE THWN/THHN, 600 VOLTS. TYPE THWN/THHN INSULATION SHALL BE USED FOR ALL BRANCH CIRCUIT WIRING. BRANCH AND FEEDER ABOVE GROUND SHALL BE THHN (90°F). BRANCH AND FEEDER BELOW GROUND SHALL BE THWN (75°F).

RECESSED LIGHTING FIXTURES IN HUNG CEILING SHALL BE SUPPLIED WITH FLEXIBLE METALLIC CONDUIT, IN LENGTHS NOT EXCEEDING 6 FEET FROM ADJACENT JUNCTION BOXES.

FACTORY COLOR CODING FOR WIRE AND CABLE SHALL BE AS FOLLOWS: 120/208V -BLACK, RED, BLUE, WHITE FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY. 277/480V -BROWN, ORANGE, YELLOW, WHITE FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY.

PROVIDE GREEN INSULATED GROUNDING CONDUCTORS IN ALL CONDUIT AND RACEWAY SYSTEMS.

LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH FISH WIRE.

PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0°C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUIT AS REQUIRED BY CODE.

LIGHTING AND POWER WIRING FOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AWG, UNO. WIRE SIZES SHALL BE #10 FOR CIRCUITS GREATER THAN 100 FEET. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS IN ONE CONDUIT UNO.

ALL WIRES SHALL BE IDENTIFIED BY CIRCUIT NUMBERS IN ALL CABINETS, BOXES, WIRING TROUGH, OTHER ENCLOSURES, AT ALL SPLICES, TERMINATIONS POINTS, ETC.

OUTLET, JUNCTION AND PULL BOXES

ALL OUTLET BOXES SHALL BE CODE GAUGE, HOT DIPPED GALVANIZED STAMPED STEEL.

OUTLET BOXES FOR RECEPTACLES AND SWITCHES IN DRY WALL PARTITION SHALL BE 4" SQUARE, 1-1/2" MINIMUM DEPTH AND SHALL BE FITTED WITH SQUARE CORNERED DEVICES COVERS AND DEPTH EQUAL TO THE DRY WALL THICKNESS. SECTIONAL BOXES ARE NOT ACCEPTABLE.

JUNCTION AND PULL BOXES SHALL NOT BE EXPOSED IN FINISHED SPACE. WHERE NECESSARY, REROUTE RACEWAY OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH, INSIDE OPPOSITE HINGE. VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

OUTLET AND JUNCTION BOXES SHALL NOT BE MOUNTED BACK-TO-BACK. ASSURE 6" MINIMUM SEPARATION IN NON-RATED WALLS. IN RATED WALLS, INSTALL BOXES IN SEPARATE STUD BAYS WITH A 24" MINIMUM SEPARATION.

GROUNDING

GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR CODES THAT MAY APPLY.

PROVIDE GROUND WIRE FOR ALL BRANCH CIRCUITING, MINIMUM #12, FOR EACH CIRCUIT. THIS DOES NOT RELIEVE THE REQUIREMENT FOR GROUNDING THE RACEWAY SYSTEM AND OUTLET BOXES OF I.G. TYPE RECEPTACLES.

PROVIDE INSULATED GROUNDING CONDUCTORS IN ALL CONDUITS. GROUND WIRE TO BE SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122.

HVAC CONTROLS

MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING INCLUDING CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSFORMERS, ETC., FOR ALL HVAC EQUIPMENT, UNLESS SPECIFIED OTHERWISE.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONLY POWER WIRING WITH DISCONNECTS, AS SHOWN IN ELECTRICAL DRAWINGS.

TEST AND GUARANTEES

UPON COMPLETION OF ELECTRICAL WORK, TEST FOR GROUNDS AND SHORTS, TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. REPAIR OR REPLACE FAULTY EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.

GUARANTEE FOR ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED.

SUBMITTALS

MANUFACTURER'S CUT SHEETS AND SHOP DRAWINGS OF THE FOLLOWING APPARATUS, GIVING FULL DESCRIPTION AND OTHER PERTINENT FACTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER. THEIR APPROVAL SHALL BE SECURED BEFORE APPARATUS IN QUESTION IS ORDERED, BUILT OR INSTALLED.

DRAFTING ONLY
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DATE
JUNE 21, 2022

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