

PROJECT SPECIFICATIONS

GENERAL NOTES:

1. ALL ITEMS & SYSTEMS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IN CONFORMANCE WITH APPLICABLE BUILDING CODES, LAWS AND REGULATIONS.
2. UNLESS "NO SUBSTITUTIONS" IS SPECIFICALLY INDICATED, IT IS NOT THE INTENT OF THESE SPECIFICATIONS TO EXCLUDE MANUFACTURERS THAT PRODUCE EQUAL PRODUCTS OR SYSTEMS. CONTRACTOR IS ENCOURAGED TO SUBMIT ALTERNATE PRODUCT OR SYSTEM MANUFACTURERS FOR CONSIDERATION BY ARCHITECT PRIOR TO BID OR ORDER.
3. CONTRACTOR SHALL DAILY REMOVE ALL DEBRIS FROM SITE AND KEEP WORK AREA CLEAN. REMOVE EXCESS MATERIALS FROM SITE.
4. SEE THE PROJECT MANUAL FOR ADDITIONAL SPECIFICATIONS AND INFORMATION.
5. FOLLOWING CONTRACT AWARD, SUBMIT (2) SETS PROPOSED COLOR CHARTS & SAMPLES FOR ALL REQUIRED COLOR SELECTIONS TO ARCHITECT FOR SELECTION & SCHEDULE. MANUFACTURER'S PRINTED COLOR CHARTS FOR PAINTED ITEMS OR PHYSICAL SAMPLES ARE REQUIRED. **PAGES PRINTED FROM WEBSITES OR LINKS TO WEBSITES ARE NOT ACCEPTABLE.**
6. SUBMITTAL INFORMATION REQUIRED FOR ALL SECTIONS NOTED THIS **. EXCEPT FOR SAMPLES, FURNISH SUBMITTALS IN PDF FORMAT.
7. CONTRACTOR SHALL MAKE APPLICATION AND OBTAIN ALL PERMITS REQUIRED FOR THE EXECUTION OF THIS WORK. U.N.O. ALL PERMIT FEES WILL BE PAID BY THE CONTRACTOR. SPECIAL INSPECTIONS REQUIRED BY THE CODE SHALL BE PAID FOR BY THE OWNER. THE OWNER WILL PAY FOR ALL OTHER QUALITY CONTROL INSPECTIONS UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS AS WELL AS ELECTRIC & GAS UTILITY CONNECTION FEES & TELEPHONE & DATA SERVICE. CONTRACTOR SHALL COORDINATE WITH SERVICES PROVIDED BY OTHERS.

02000 - SITE WORK (SEE SITE PLAN SHEETS)

1. EXCEPT FOR MATERIALS TO BE RE-USED ON SITE SUCH AS TOPSOIL, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE OR RELOCATED ON SITE TO AN AREA ACCEPTABLE TO THE OWNER. CONTRACTOR SHALL PROVIDE ADDITIONAL SOIL AND FILL MATERIAL AS NECESSARY TO COMPLETE THE WORK.
2. DO NOT OBSTRUCT EXISTING STREETS, PARKING OR TRAVELWAYS WITHOUT OBTAINING PRIOR PERMISSION FROM THE OWNER.
3. PROTECT ALL EXISTING SITE IMPROVEMENTS TO REMAIN DURING CONSTRUCTION. RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION AS ACCEPTABLE TO THE OWNER. THIS SHALL INCLUDE EXISTING PAVING, STRUCTURES, LANDSCAPING AND UTILITY SERVICES.
4. REPLACE ALL EXISTING TREES SCHEDULED TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION.
5. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER WITHOUT PRIOR WRITTEN PERMISSION. CONTRACTOR MUST FURNISH TEMPORARY UTILITY SERVICES IF SERVICE IS INTERRUPTED TO ANY OCCUPIED AREAS - UNLESS DURING SCHEDULED AND APPROVED SERVICE INTERRUPTION.
6. SUBGRADE BACK FILL SOILS SHALL BE CLEAN AND FREE FROM CLAY & SILTY SOILS AND ROCKS LARGER THAN 3" IN ANY DIMENSION, FROZEN MATERIALS, VEGETATION, WASTE AND OTHER DELETERIOUS MATTER. SEE GEOTECH REPORT RECOMMENDATIONS.
7. STRUCTURAL FILL AND DRAINAGE FILL TO BE #57 STONE OR AS INDICATED IN THE GEOTECHERIO REPORT. STRUCTURAL FILL BELOW FOOTINGS TO BE LEAN CONCRETE.
8. EXCESS FILL MAY BE SPREAD AND SEEDED ON SITE IN A LOCATION AS ALLOWED AND DIRECTED BY OWNER.
9. BEDDING FILL TO BE CRUSHED STONE OR GRAVEL WITH 100% PASSING A 1-INCH SIEVE.
10. PROVIDE DETECTABLE WARNING TAPE WITH METAL CORE INSCRIBED WITH DESCRIPTION OF THE UTILITY 1'-0" MINIMUM ABOVE ALL UNDERGROUND UTILITIES.
11. PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED BY THE COUNTY AND STATE.
12. EXCAVATE TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE OR SUBSURFACE CONDITIONS ENCOUNTERED INCLUDING ROCK, SOIL MATERIALS OR OTHER OBSTRUCTIONS. IF EXCAVATED MATERIALS INTENDED FOR BACKFILL INCLUDE UNSATISFACTORY SOIL MATERIALS AND ROCK - REPLACE WITH SATISFACTORY MATERIALS.
13. EXCAVATE TRENCHES 6 INCHES DEEPER THAN BOTTOM OF PIPE IN ROCK AND 4 INCHES DEEPER ELSEWHERE TO ALLOW FOR BEDDING COURSE.
14. RE-CONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES OR WATER, ETC.
15. COMPACTION: PLACE FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES AND COMPACT AS FOLLOWS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
 - UNDER STRUCTURES - ENGINEERED FILL COMPACTED TO 95% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE (ASTM D-698)
 - UNDER WALKS & PAVEMENTS - 95%
 - UNDER LAWNIS - 85%
16. OWNER MAY ENGAGE AN INDEPENDENT GEOTECHNICAL TESTING AGENCY TO TEST AND INSPECT EACH LAYER OF SUBGRADE FILL. WHEN REPORTS INDICATE THAT THE SPECIFIED DEGREE OF COMPACTION IS NOT ACHIEVED, RECOMPACT AND RETEST UNTIL COMPACTION IS ACHIEVED.
17. WHERE SETTLING OCCURS, REMOVE FINISHED SURFACE AND REPAIR TO NEW CONDITION.
18. A GEOTECHNICAL REPORT IS NOT AVAILABLE.
19. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY, BENCHMARKS AND STAKEOUT REQUIRED FOR THIS PROJECT.

02500 - BUILDING UTILITIES

1. CONTRACTOR SHALL EXTEND AND COMPLETE BUILDING UTILITY SERVICES IN COORDINATION WITH WORK PERFORMED BY OTHERS.
2. PROTECT ALL EXIST. SERVICES IN PLACE.
3. CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE TO DETERMINE EXISTING CONDITIONS AND FULL EXTENT OF WORK REQUIRED TO EXTEND ALL UTILITIES TO BUILDING. UTILITY COSTS & PERMIT FEES NOT SPECIFICALLY EXCLUDED ARE A PART OF THIS WORK.
4. AT PRE-CONSTRUCTION MEETINGS, CONTRACTOR SHALL PRESENT THE OWNER WITH A SCHEDULE FOR HAVING THE OWNER PROVIDED UTILITIES COMPLETE.
5. CONTRACTOR SHALL PROVIDE AND PAY FOR ANY TEMPORARY UTILITY SERVICES REQUIRED FOR CONSTRUCTION PRIOR TO FINAL UTILITY INSTALLATION (I.E. TEMP. H2O & ELEC.).

02361 - TERMITES CONTROL **

1. COORDINATE SOIL TREATMENT WITH EXCAVATION, FILLING, GRADING AND CONCRETE WORK.
2. SPECIAL WARRANTY: WRITTEN WARRANTY, SIGNED BY APPLICATOR AND CONTRACTOR CERTIFYING THAT TERMITES CONTROL WORK WILL PREVENT INFESTATION OF SUBTERRANEAN TERMITES FOR (3) YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
3. PROVIDE AN EPA - REGISTERED TERMITICIDE THAT IS NOT HARMFUL TO PLANTS, APPLY AS RECOMMENDED BY THE PRODUCTS EPA-REGISTERED LABEL.
4. POST WARNING SIGNS IN THE APPLICATION AREA.
5. RE-APPLY SOIL TREATMENT TO AREAS SUBSEQUENTLY DISTURBED BY CONSTRUCTION ACTIVITIES.
6. APPLY TO AREAS UNDER SLABS ON GRADE AND FOUNDATIONS AND MASONRY VOIDS.

02800 - LANDSCAPING

1. LANDSCAPING IS NOT A PART OF THIS WORK. RESTORE LAWN AREAS DISTURBED BY CONSTRUCTION. SEED AND PROTECT TO ESTABLISH NEW GRASS.

03300 CAST-IN-PLACE CONCRETE **

SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION. FOLLOW STRUCTURAL SHEET SPECIFICATIONS WHERE STRUCTURAL SHEET REQUIREMENTS ARE MORE STRINGENT.

1. WALLS, FLOOR SLABS & FOOTINGS - 3,500 PSI WITH FIBER MESH FOR FINISHED INTERIOR SLABS. ALL CONCRETE EXPOSED TO EXTERIOR AIR ENTRAINED .6% AT ± 1.5% AT POINT OF PLACEMENT.
2. CONCRETE WORK SHALL CONFORM TO THE CURRENT VERSION OF:
 - ACI 18-19 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - ACI 301-20 - SPECIFICATIONS FOR STRUCTURAL CONCRETE
3. PROVIDE STANDARD BAR CHAIRS & AND SPACERS AS REQUIRED FOR 3" COVER AT FOUNDATIONS AND 2" COVER AT FORMED WALLS AND ELEVATED SLABS. SUPPORT WIRE MESH W/ CONT. SLAB BOLSTERS @ 4'-0" OC MAX.
4. CONTRACTOR SHALL CAREFULLY MONITOR CONCRETE PLACEMENT ACTIVITIES TO MINIMIZE SPILLAGE & CLEAN BOTH INTERIOR AND EXTERIOR AREAS WHERE CONCRETE SPLATTERS OR DRIPS . NO DUMPING OF EXCESS CONCRETE OR TRUCK CLEAN UP TO OCCUR ON SITE UNLESS APPROVED IN ADVANCE BY OWNER.
6. REINFORCING BARS: ASTM A615, GRADE 60. FLAT SHEET WELDED WIRE FABRIC: ASTM A1064. MINIMUM LAP SLICE TO BE 48 BAR DIAMETERS.
7. WATERSTOPS: RUBBER OR PVC.
8. VAPOR BARRIER: 10 MIL MINIMUM POLYETHYLENE SHEETS - SEAL ALL EDGES & TURN UP WALL AT SLAB AROUND PERIMETER. PROVIDE UNDER ALL INTERIOR SLABS
9. JOINT FILLER STRIPS: ASPHALT-SATURATED CELLULOSE FIBER.

SPECIFICATIONS (CONT.)

04200 UNIT MASONRY **

1. CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF ACI-530-13 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530-1.3 "SPECIFICATION FOR MASONRY STRUCTURES".
2. PROVIDE UNITS IN SIZES INDICATED AND SPECIAL SHAPES WHERE REQUIRED. MINIMUM COMPRESSIVE STRENGTH MASONRY UNITS TO BE 1,900 PSI. ASTM C70. GRADE N. SEE COLOR SCHEDULE FOR COLORS. CONSTRUCT IN RUNNING BOND PATTERN EXCEPT WHERE INDICATED OTHERWISE.
3. GROUT: ASTM C476, 2,000 PSI MIN. COMPRESSIVE STRENGTH F'm = 1,900 PSI.
4. MORTAR: ASTM C270 CEMENT LIME, TYPE 5 (CMU BELOW OR ABOVE GRADE), TYPE N (CMU VENEER ABOVE GRADE ONLY)
5. REINFORCING: ASTM A615, GRADE 60
6. PROVIDE HORIZONTAL DUROWALL WIRE REINFORCING AT 16" OC VERT. (TYP) AT ALL MASONRY BEARING WALLS.
7. PROVIDE GALVANIZED STEEL SLEEVES AT EXTERIOR WALL PIPE PENETRATIONS.
8. GROUT ALL MASONRY SOLID BELOW GRADE. GROUT 24 INCHES SOLID BELOW BEARING PLATES, BEAMS, HEADERS OR LINTELS.
9. PROTECT MASONRY CONSTRUCTION DURING COLD, HOT AND WET WEATHER.
10. MASONRY TIES TO BE GALVANIZED CARBON STEEL - ADJUSTABLE FOR VERTICAL OR HORIZONTAL DIRECTION. PROVIDE TIES AT 16" OC VERTICALLY AND 24" OC HORIZONTALLY MAX. FOR VENEERS. INSTALL ADDITIONAL ANCHORS AROUND OPENINGS AND PILASTERS.
11. EXPOSED EMBEDDED FLASHINGS TO BE .0156 STAINLESS STEEL. CONCEALED FLASHING TO BE .040 THICKNESS EPDM OR RUBBERIZED-ASPHALT.
12. CLEAN MASONRY OF ALL MORTAR DRIPS, STAINS AND EFFLORESCENCE USING EITHER A JOB MIX DETERGENT SOLUTION OR PROPRIETARY ACIDIC CLEANER TESTED TO INSURE THAT SURROUNDING CONSTRUCTION AND MASONRY FINISH IS NOT DAMAGED. PROTECT MASONRY FROM SOIL / CONCRETE STAINING DURING AND IMMEDIATELY AFTER INSTALLATION.
13. MASONRY SHALL BE INSTALLED PLUMB AND LEVEL. CUT MASONRY WITH A SAW ONLY. COORDINATE CLOSELY FOR BUILT-IN WORK AND COORDINATE ALL MASONRY OPENINGS WITH FRAMING AND MEP SYSTEMS.

05000 METALS

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". IF CONNECTIONS ARE NOT SHOWN ON DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS FOR BEAM MEMBER UNIFORMLY LOADED TO CAPACITY.

ASTM A36 [ANGLE, CHANNELS, PLATES & OTHER STRUCTURAL SHAPES] Fy = 36 KSI EXTERIOR STEEL EXPOSED TO THE WEATHER TO BE HOT DIPPED GALVANIZED.

2. STRUCTURAL COLD FORM FRAMING SHALL CONFORM TO THE AISI S240-15 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING. ALL STUDS & ACCESSORIES SHALL BE GALVANIZED IN SIZE INDICATED. INTERIOR NON-STRUCTURAL FRAMING EQ. TO CLARK-DIETRICH MINIMUM PRO-STEUD 20 SYSTEM IN SIZES INDICATED. PROVIDE COMPOSITE OR FULLY BRACED INSTALLATION ONLY. PROVIDE SLIP-CHANNELS / HIGH LEG STUDS AT TOP OF INTERIOR PARTITIONS TO ALLOW FOR TRUSS DEFLECTION AND MOVEMENT.

06000 WOOD AND PLASTIC **

1. SEE SHEET S1.2 ROUGH CARPENTRY NOTES. MINIMUM WOOD BLOCKING OR NAILERS SHALL BE SYP #2. GROUND CONTACT PRESERVATIVE TREATED WHERE INDICATED AND REQUIRED BY CODE. ALL WOOD IN CONTACT WITH SLABS ON GRADE OR EXTERIOR CONC. / MASONRY WALLS TO BE PRESERVATIVE TREATED. ALL FASTENERS IN CONTACT WITH PRESERVATIVE TREATED WOOD TO BE STAINLESS STEEL OR HOT DIPPED GALVANIZED ONLY.
2. CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING, FASTENERS AND CONNECTORS. PROVIDE ALL TEMPORARY AND PERMANENT BRACING TO STABILIZE STRUCTURE AT ALL TIMES.
3. INTERIOR PAINTED TRIM TO BE PRIMED & BACK PRIMED. INSTALL WITH EVENLY SPACED FINISH SCREWS OR FINISH NAILS. MITRE BUTT JOINTS. TRIM & MILLWORK INSTALLATION SHALL CONFORM TO MIN. AWI CUSTOM GRADE.

07100 FOUNDATION WATERPROOFING

1. PROTECT ALL WATERPROOFING APPLICATIONS WITH RIGID INSULATION OR PROTECTION BOARD AS RECOMMENDED BY PRODUCT MANUFACTURER.
2. PROVIDE CONTINUOUS 1'-0" FROM WALL STONE & 4" FOUNDATION DRAINAGE TO DAYLIGHT ALONG ALL BELOW GRADE FOUNDATION WALLS.
3. WATERPROOFING TO BE EQUAL TO RUB-R-WALL ELASTOMERIC MEMBRANE (3) LAYERS W/ GEO-WRAP PLASTIC PROTECTION MEMBRANE WHERE EXPOSED TO EARTH AS RECOMMENDED BY SYSTEM MANUFACTURER. EXTEND WATER-PROOFING 2' ABOVE FINISHED GRADE.

07210 BUILDING INSULATION **

1. SOUND BATTIS INSULATION TO BE UN-FACED SOUND ATTENUATION FIBERGLASS BATT INSULATION BY OWENS CORNING IN 3" THICKNESS U.N.O. SOUND BATTIS SHALL BE INSTALLED IN ALL INTERIOR FRAME WALLS SEPARATING OCCUPIED SPACES U.N.O.
2. PERIMETER FOUNDATION INSULATION TO BE DOW EXTRUDED POLYSTYRENE INSULATION. PERIMETER INSULATION SHALL EXTEND AROUND ENTIRE PERIMETER.
3. PROVIDE CLOSED CELL FOAM INSULATION IN NON-VENTED RAFTERS - MIN. R-VALUE = R-49
3. BATT INSULATION SCHEDULE:

ATTIC INSULATION = R-49 MIN (INSTALL IN 2 LAYERS - (1) PARALLEL TO TRUSSES & TOP LAYER PERPENDICULAR TO TRUSSES FOR TOTAL OF R-49)
FRAME 2x4 WALLS = R-15 MIN.
FRAME 2x6 WALLS = R-21 MIN.

07240 EXTERIOR INSULATION & FINISH SYSTEM (NOT USED)

07400 SIDING PANELS **

1. CEMENT-FIBER TRIM & PANELS TO BE EQUAL TO JAMES HARDIE PRIMED SMOOTH FACED. INSTALL W/ STAINLESS STEEL CONCEALED FASTENERS. EXPOSED & PAINTED TRIM BOARDS TO BE FIBER-CEMENT OR BORAL 1" THICKNESS (NOMINAL 5/4) OR AS INDICATED. TRIM TO BE FACTORY PRIMED OR PRE-FINISHED IN COLOR AS SELECTED BY OWNER W/ CUT JOINTS PRIMED & SEALED AS RECOMMENDED BY SIDING MANUFACTURER. CEMPLANK OR NICHIHA ARE ACCEPTABLE ACCEPTABLE EQUAL.
2. SOFIT PANELS TO BE WHITE VINYL TO MATCH EXISTING - VENTED AT ALL GUTTER EAVES.
3. FOLLOW MANUFACTURER'S INSTALLATION AND FINAL COATING PREPARATION RECOMMENDATIONS. SEE ELEVATION SHEET FOR EXTERIOR PRODUCT SCHEDULE.

07450 METAL ROOFING **

1. ROOFING TO BE EQUAL TO PRE-FINISHED, 1" HEIGHT STANDING SEAM PANEL W/ CONCEALED CLIPS, 24 GA. KYNAR OR HYLAR COATED STEEL PANELS WITH 20 YEAR MIN. WARRANTY ON PRODUCT WEATHERTIGHTNESS & COATING. 16" SEAM SPACING AT SINGLE SLOPE ROOF AND MATCH EXISTING SEAM SPACING ON SANCTUARY. PROVIDE MATCHING PANEL FLASHING AND TRIM. FABRAL SNAP-ON SEAM DETAILS PROVIDED OR PROVIDE EQ. MANUFACTURER SYSTEM WITH 180 DEGREE SEAMED RIBS.
2. INSTALL ON CONT. ICESHIELD OVER SUBSTRATE RECOMMENDED BY PANEL SYSTEM MANUFACTURER FOR WARRANTY.
3. CONTRACTOR SHALL PROVIDE A ZERO COST TO OWNER (2) YEAR LABOR AND MATERIAL WARRANTY COVERING WEATHER-TIGHTNESS OF ROOFING AND FLASHING FROM DATE OF SUBSTANTIAL COMPLETION.
4. PROVIDE PRE-FINISHED VINYL SOFFIT MATERIAL.

07420 FRP PANELS (NOT USED)

- 07841 - THROUGH PENETRATION FIRESTOP SYSTEMS
 - 1. PROVIDE 3M, U.L. OR PRESCRIPTIVE FIRE PENETRATION FIRESTOP DETAILS AT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.

07900 CAULKING & SEALANTS

1. TYPICAL PRODUCTS SHALL BE DOW CORNING - 790 OR GE SILICONE SILPRUF 2000 WEATHERING SEALANT.
2. PROVIDE CLEAR SILICONE AT INTERIOR WET LOCATIONS THAT WILL NOT BE PAINTED.
3. PROVIDE PAINTABLE, PERMANENTLY FLEXIBLE COMMERCIAL SEALANTS AT EXTERIOR SIDING AND TRIM.

SPECIFICATIONS (CONT.)

08000 WINDOWS (SUBMITTAL REQUIRED)**

1. SEE SHEET A4.1 FOR EXTERIOR WINDOWS.
- 08110 STEEL DOOR & FRAMES (SUBMITTAL REQUIRED)**
 - 1. STEEL FRAMES TO BE SHOP PRIMED 16 GA. STEEL WITH HARDWARE FACTORY CUT & FULLY WELDED SEAMS WITH ALL WELDS GRIND SMOOTH. DRYWALL AND TRIM ALL FRAMES. PROVIDE (3) JAMB ANCHORS PER JAMB & ANCHOR TO FLOOR. PROVIDE CONT. HEADER ABOVE DOORS.
 - 2. FIELD VERIFY WALL THICKNESSES AND MASONRY OPENINGS.
 - 3. INSTALL DOOR & FRAME SQUARE, PLUMB & LEVEL SO DOORS OPEN AND CLOSE WITH EASE.
 - 4. STEEL DOORS TO BE 16 GA, FULLY WELDED & INSULATED, REINFORCED FOR CLOSERS & OTHER HARDWARE. FACTORY PRIME FINISHED

08200 WOOD DOORS (SUBMITTAL REQUIRED)**

1. WOOD DOORS: EQ. TO MASONITE SOLID CORE FLUSH OR MOLDED WOOD PRE-FINISHED PAINTED DOORS. ALL DOORS TO HAVE SOLID LUMBER CORE UNLESS A MINERAL CORE IS REQUIRED FOR FIRE-RATING. PARTICLE CORE DOORS ARE NOT ACCEPTABLE. ALL DOORS TO BE REINFORCED FOR CLOSERS. FINISH: FACTORY PRIMED OR PRE-FINISHED AS SELECTED FROM MANUFACTURER'S STANDARD FINISHES TO MATCH DOOR & TRIM COLOR SELECTED BY OWNER. SEE SHEET. A8.1 FOR ADDITIONAL INFORMATION. SUBMIT SAMPLES FOR COLOR SELECTION / VERIFICATION.
2. DOOR JAMBS TO BE SET PLUMB AND LEVEL SO DOOR HAS AN EVEN REVEAL AND OPENS AND CLOSSES WITHOUT BINDING OR SCRAPING THE FLOOR. DOORS SHALL LATCH WITHOUT SLAMMING OR WITH CLOSER FORCE IF EQUIPPED WITH A CLOSER.
3. PROVIDE MATCHING TRIM AT GLASS LITES.

09200 GYPSUM BOARD ASSEMBLIES

1. PROVIDE COMPLETE GYPSUM BOARD ASSEMBLIES AS INDICATED FOR NEW WORK. INSTALL GYPSUM BOARD PANELS VERTICALLY ALONG STUD IN CONTINUOUS PANELS TO DECREASE BUTT JOINTS WHERE POSSIBLE. PROVIDE MR BOARD IN NON-FIRE RATED WET WALL LOCATIONS.
2. ACOUSTICAL INTERIOR WALLS INDICATED ARE TO BE INSTALLED W/ ALL EDGE CONDITIONS AND PENETRATIONS SEALED TO MAINTAIN ACOUSTICAL NRC RATING. ALL WALLS SEPARATING ROOMS & CORRIDOR WALLS REQUIRE ACOUSTIC SEPARATION.
3. FINISH GYPSUM BOARD SO THAT SEAMS & SCREW LOCATIONS ARE NOT VISIBLE AFTER PAINT FINISH IS APPLIED.
4. WHERE GYPSUM BOARD MEETS CMU WALLS, FRAMES OR OTHER STRUCTURE, PROVIDE A CONT. METAL J-BEAD OR ZIP BEAD EDGE WITH A FLEXIBLE SEALANT FILLER.
5. A LEVEL 5 FINISH SHALL BE REQUIRED IN PUBLIC SPACES - ENTRANCE VESTIBULE, HALL, & SANCTUARY. [A LEVEL 5 FINISH REQUIRES THE ENTIRE BOARD SURFACE TO BE SKIMMED BEFORE PAINT PRIME COAT AND WIPED DOWN TIGHTLY FOR UNIFORM PAINT FINISH OR USE A LEVEL 5 PRIMER] PROVIDE A LEVEL 4 FINISH IN ALL OTHER SPACES INCLUDING CLASSROOM AND TOILETS. AREAS ABOVE CEILINGS AND OTHER CONCEALED AREAS TO HAVE TAPED SEAMS ONLY.
6. CROOKED CORNERS OR WALLS WILL BE REQUIRED TO BE STRAIGHTENED.
7. PROVIDE GWB CONTROL JOINTS WHERE INDICATED. REVIEW ANY ADDITIONAL CONTROL JOINT LOCATIONS RECOMMENDED BY THE GYPSUM BOARD SYSTEM INSTALLER WITH THE ARCHITECT DURING INTERIOR ROUGH-IN.
8. PIPING, CONDUIT AND DUCTWORK ARE TO BE RUN CONCEALED IN FINISHED SPACES. GYPSUM BOARD WORK INCLUDES PROVIDING MISC. CHASES, SOFFITS, THICKENING WALLS OR FURRING AROUND ITEMS THAT CANNOT BE RUN CONCEALED. COORDINATE WITH ALL TRADES.

09300 PORCELAIN CERAMIC TILE (NOT USED)

09510 TILE CEILING **

1. TYPICAL NEW SANCTUARY CEILING TILES TO BE EQ. TO AMERICAN TIN CEILINGS 24"x24" TIN CEILING TILE PATTERN #7 WITH PRE-FINISHED STANDARD OR PREMIUM BAKED ENAMEL RESIN COLOR. FILLER PATTERN #1 FOR DIFFUSERS & CEILING DEVICES THAT WILL NOT FIT IN #7 TILE. SUBMIT BRIGHT WHITE SATIN AND CREAMY WHITE SATIN COLOR SAMPLES FOR SELECTION. INSTALL LEVEL WITH CONCEALED FASTENERS ON FURRING STRIPS TO HEIGHT INDICATED OR, WITH PRIOR APPROVAL FROM THE ARCHITECT, AS HIGH AS STRUCTURE & EQUIPMENT ALLOW. U.N.O. CENTER GRID IN ROOM AS INDICATED ON THE REFLECTED CEILING PLAN. LEAVE (1) FULL BOX OF TILE FOR OWNER REPLACEMENT AFTER OCCUPANCY.
2. CROWN MOLDING TO BE EQUAL TO AMERICAN TIN CEILINGS TYPE C1 6.25" x 8.75" WHERE INDICATED. FACTOR FINISHED COLOR TO MATCH TIN CEILING TILES OR AS SELECTED BY OWNER. INSTALL LEVEL WITH CONCEALED FASTENERS & SEAMS NOT VISIBLE.
2. CONTRACTOR TO COORDINATE ITEMS INSTALLED IN CEILING SO THAT LIGHTS ARE EVENLY SPACED & DIFFUSERS & DETECTORS ARE CENTERED IN THE TILE.
3. NEATLY TRIM & TOUCH UP PAINT ALL VISIBLE CUT EDGES. REPLACE ALL NICKED AND DAMAGED TILES BEFORE FINAL INSPECTION.

09650 RESILIENT FLOORING ** (SUBMIT PROPOSED COLOR SAMPLES)

1. ½" RUBBER COVE BASE BY JOHNSON RUBBER CO. INSTALL SO ALL SEAMS ARE TIGHT & FLUSH WITH WALL.
2. LVT AS SCHEDULED AND SELECTED. FLOORING INSTALLER SHALL NOT START FINISHED FLOORING INSTALLATION UNTIL FLOOR IS PREPARED AND LEVEL. START OF FINISH FLOORING SHALL INDICATE FLOOR SUB-CONTRACTOR ACCEPTANCE OF THE SUBSTRATE. PROVIDE SUB-FLOOR LEVELER COMPATIBLE WITH VCT & CONCRETE. CONFIRM THAT SLAB MOISTURE CONTENT IS ACCEPTABLE FOR ADHESIVE.
3. PROVIDE (2) FULL BOXES OF FIELD TILE LVT & ANY PARTIAL BOXES OF ACCENT TILE.

09660 CARPET ** (SUBMIT SAMPLES)

1. NEW ROLL CARPET AS SELECTED BY OWNER. **MATERIAL PURCHASE ALLOWANCE \$4.50 / SF.** SHIPPING, DELIVERY AND INSTALLATION COST IS INCLUDED IN THE BASE BID.
2. BEFORE INSTALLATION, THE CARPET INSTALLER SHALL CLEAN AND PREPARE THE SUB-FLOOR TO A LEVEL AND BUMP FREE CONDITION. NO CARPET SHALL BE INSTALLED OVER BARE CONCRETE THAT IS NOT FIRST SEALED. INSTALLATION OF CARPET SHALL INDICATE CONTRACTOR ACCEPTANCE OF SUB-FLOOR PREPARATION.
3. QUESTIONS CONCERNING CARPET DIRECTION OR PATTERN SHOULD BE DIRECTED TO THE ARCHITECT.

09900 PAINTING

1. PREPARE ALL SURFACES FOR COATINGS & APPLY COATINGS AS RECOMMENDED BY THE MFG. SPECIFICATIONS BELOW BASED ON SHERWIN-WILLIAMS. NOTE THAT EXPOSED ALUM., BRASS, CHROME, STAINLESS STEEL, ETC. TO BE LEFT UNFINISHED. DO NOT PAINT OVER TAGS & LABELS.
2. NO SPRAY APPLICATION OF PAINT WITHOUT PRIOR APPROVAL FROM OWNER. IF SPRAY APPLICATION IS USED, TURN OFF HVAC SYSTEM & PROTECT EQUIPMENT & ADJACENT SURFACES FROM OVERSPRAY.
3. EXTENT OF COATING IN CONTRACT INCLUDES: EXTERIOR SURFACES THAT ARE NOT PRE-FINISHED. PAINT INTERIOR FERROUS METALS - METAL DOORS, FRAMES & RAILS, ALL EXPOSED GYPSUM DRYWALL SURFACES, AS WELL AS EXPOSED DUCTWORK, PIPING & CONDUIT.
4. PRIOR TO APPLICATION OF ANY COATING, PAINTING CONTRACTOR WILL EXAMINE THE SUBSTRATE TO BE COATED. APPLICATION OF PAINT DEMONSTRATES PAINTING CONTRACTOR'S ACCEPTANCE OF SUBSTRATE.
5. PAINT CONTRACT SHALL INCLUDE (2) PAINT WALL COLORS PER SPACE - SEE FINISH PLANS AND SCHEDULE.
6. APPLY COATING TO FINISH THICKNESS RECOMMENDED BY COATING MFG. OWNER SHALL DOCUMENT PRIME COAT APPLICATION. NO FINISH COAT APPLICATION SHALL START UNTIL PRIME COAT IS DOCUMENTED.

PAINTING SCHEDULE:

EXTERIOR FERROUS METAL:

The dry film thickness of the paint at any point shall not be less than the following: for the primer 1.5 mils; for the three coat paint system 3.5 mils. In the event the required paint film thickness is not achieved as specified, additional coats shall be applied until the required thickness is obtained.

EXTERIOR STEEL GALVANIZED & NON-GALVANIZED [All exterior galvanized metal to be painted]. Prepare per workmanship above.

- 1st Coat: SW Pro-Cryl Universal Acrylic Primer B66-1310 Series
- 2nd Coat: SW Pro Industrial Acrylic Coating, Semi-gloss B66-650 or 600 Series.
- 3rd Coat: SW Pro Industrial Acrylic Coating, Semi-gloss B66-650 or 600 Series

EXTERIOR CMU OR CONCRETE FOUNDATION

- 1st Coat: S-W Loxon SELF-CLEANING ACRYLIC COATING
- 2nd Coat: S-W Loxon SELF-CLEANING ACRYLIC COATING

EXTERIOR FIBER-CEMENT (FACTORY PRIMED)

- Field Prime: PrimePlus
- 1st Coat: SW Duration Exterior ACRYLIC Latex Satin
- 2nd Coat: SW Duration Exterior ACRYLIC Latex Satin

SPECIFICATIONS (CONT.)

INTERIOR GYPSUM DRYWALL:

- 1st Coat: SW Pro-Mar 200 Zero VOC Interior Latex Primer
- 2nd Coat: SW Pro-Mar 200HP Zero VOC Acrylic
- 3rd Coat: SW Pro-Mar 200HP Zero VOC Acrylic

NOTE: EGGSHELL TYPICAL FOR WALLS ; APPLY SEMI-GLOSS FINISH TO TOILETS, KITCHEN & JANITOR CLOSET WALLS & ALL PAINTED TRIM

INTERIOR FERROUS METALS:

- Group A: All interior metal not pre-finished and in particular: door jambs, steel doors and frames, etc.
- Primer: Factory primer or SW Pro-Cryl Universal Acrylic Primer
- 2nd Coat: SW Pro-Mar 200HP Zero VOC Acrylic
- 3rd Coat: SW Pro-Mar 200HP Zero VOC Acrylic

GALVANIZED METAL: same as for ferrous metals above.

PAINTED WOOD WORK:

- 1st Coat: SW Pro-Mar 200 Zero VOC Interior Latex Primer
- 2nd Coat: SW Pro-Mar 200HP Zero VOC Acrylic
- 3rd Coat: SW Pro-Mar 200HP Zero VOC Acrylic

INTERIOR CONCRETE FLOOR

- 1st Coat: H&C ACRYLA-DECK WATER BASED SOLID COLOR
- 2nd Coat: H&C ACRYLA-DECK WATER BASED SOLID COLOR

NATURAL FINISH WOOD (NOT USED)

- 1ST Coat: stained - Minwax penetrate color - lightly sanded
- 2nd Coat: Minwax clear gloss polyurethane
- 3rd Coat: Minwax clear gloss polyurethane
- 4th Coat: Minwax clear gloss polyurethane

10260 WALL & CORNER GUARDS

1. SEE SHEET A1.1.
- 10425 INTERIOR SIGNAGE
 - 1. PROVIDE ADA COMPLIANT INTERIOR SIGNS EQ. TO ULINE S-15597 "MEN" AND S-115598 "WOMEN". COLOR: BLACK.
 - 2. PROVIDE (1) 6"x9" AT EACH TOILET DOOR MOUNTED AT 60" A.F.F TO CENTER. SIGNS SHOULD INDICATE "MEN" OR "WOMEN" AS WELL AS HC ACCESSIBILITY.
 - 3. ADDITIONAL INTERIOR SIGNAGE BY OWNER.

10800 TOILET ACCESSORIES **

1. SEE SHEET A2.1 FOR TOILET ACCESSORIES AND PARTITIONS.

11130 AUDIOVISUAL EQUIPMENT

1. U.N.O. ALL AUDIO VISUAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY OWNER. AT PRE-CONSTRUCTION MEETING CONTRACTOR TO IDENTIFY SCHEDULING REQUIREMENTS AND ALERT OWNER OF TIMING OF ANY AV INSTALLATIONS. THE OWNER WILL PROVIDE ALL DATA CABLING, TELEPHONE SERVICE AND EQUIPMENT.
2. SEE ELECTRICAL FOR POWER FEEDS, EMPTY DATA BOXES AND CONDUIT W/ PULL STRINGS TO ABOVE CEILING IN CONTRACT.

11040 BAPTISTERY EQUIPMENT

1. BAPTISTERY EQ. TO CHURCHOUTLET.COM MODEL 7-A WITHOUT VIEW WINDOW, EZ FILL 750. DRAIN & OVERFLOW W/ PBH 5.5KW HEATER VERIFY COLOR & STAIR SIDE W/ OWNER CONFIRM ROUGH-IN DIMENSIONS BEFORE FRAMING.

11400 FOOD SERVICE EQUIPMENT (NOT USED)

11480 ATHLETIC EQUIPMENT (NOT USED)

12000 FURNISHINGS

1. ALL FURNISHINGS ARE BY OTHERS.

11310 LIGHTNING PROTECTION (NOT USED)

13120 PRE-ENGINEERED STRUCTURES (NOT USED)

13850 FIRE ALARM & DETECTION

- SEE ELECTRICAL

14240 PASSENGER ELEVATOR

15000 MECHANICAL **

- SEE PLUMBING & MECHANICAL PLANS
- SUBMIT ALL EQUIPMENT & FIXTURES FOR REVIEW

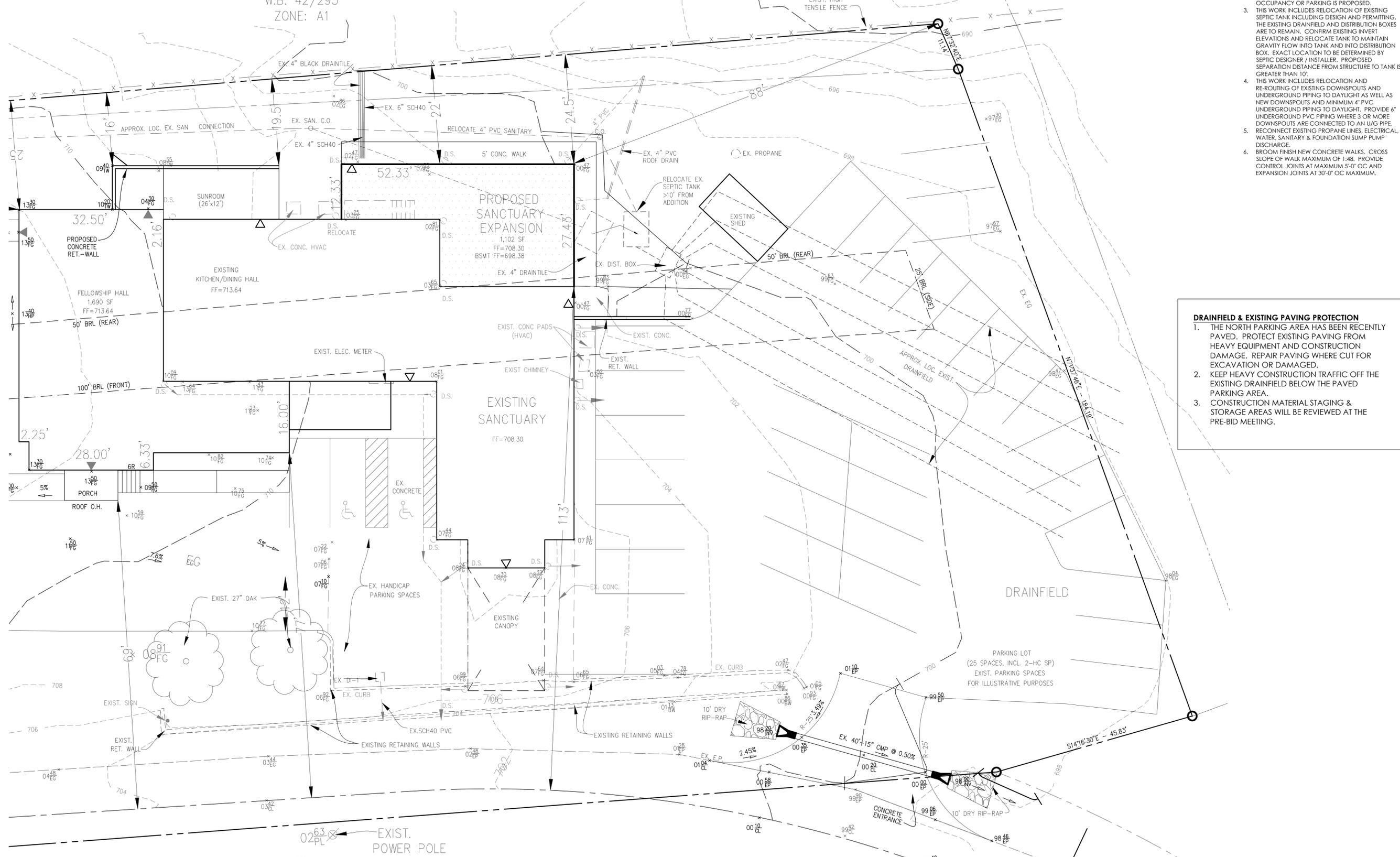
16000 ELECTRICAL **

- SEE ELECTRICAL PLANS
- SUBMIT ALL PANELS, DEVICES & LIGHTING FOR REVIEW

SUBMITTAL SCHEDULE

SARAH T. & GEORGE HENSHAW

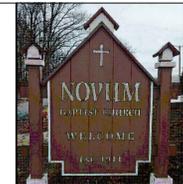
TAX MAP 24 20
W.B. 42/295
ZONE: A1



- SITE PLAN NOTES**
1. THIS PLAN PREPARED TO SHOW PROPOSED ADDITION ZONING SETBACK DISTANCE TO PROPERTY LINE. THE EXISTING STRUCTURES ENCRoACH INTO THE PROPERTY BUILDING SETBACK. THE PREVIOUSLY APPROVED SITE PLAN SHOWS THE ADDITION NO LESS CONFORMING TO SETBACKS THAN THE EXISTING BUILDING.
 2. NO CHANGE TO EXISTING USE. TOTAL SITE OCCUPANCY OR PARKING IS PROPOSED.
 3. THIS WORK INCLUDES RELOCATION OF EXISTING SEPTIC TANK INCLUDING DESIGN AND PERMITTING. THE EXISTING DRAINFIELD AND DISTRIBUTION BOXES ARE TO REMAIN. CONFIRM EXISTING INVERT ELEVATIONS AND RELOCATE TANK TO MAINTAIN GRAVITY FLOW INTO TANK AND INTO DISTRIBUTION BOX. EXACT LOCATION TO BE DETERMINED BY SEPTIC DESIGNER / INSTALLER. PROPOSED SEPARATION DISTANCE FROM STRUCTURE TO TANK IS GREATER THAN 10'.
 4. THIS WORK INCLUDES RELOCATION AND RE-ROUTING OF EXISTING DOWNSPOUTS AND UNDERGROUND PIPING TO DAYLIGHT AS WELL AS NEW DOWNSPOUTS AND MINIMUM 4" PVC UNDERGROUND PIPING TO DAYLIGHT. PROVIDE 4" UNDERGROUND PVC PIPING WHERE 3 OR MORE DOWNSPOUTS ARE CONNECTED TO AN U/G PIPE. RECONNECT EXISTING PROPANE LINES, ELECTRICAL, WATER, SANITARY & FOUNDATION SUMP PUMP DISCHARGE.
 5. BROOM FINISH NEW CONCRETE WALKS. CROSS SLOPE OF WALK MAXIMUM OF 1:48. PROVIDE CONTROL JOINTS AT MAXIMUM 5'-0" OC AND EXPANSION JOINTS AT 30'-0" OC MAXIMUM.

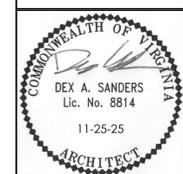
DRAINFIELD & EXISTING PAVING PROTECTION

1. THE NORTH PARKING AREA HAS BEEN RECENTLY PAVED. PROTECT EXISTING PAVING FROM HEAVY EQUIPMENT AND CONSTRUCTION DAMAGE. REPAIR PAVING WHERE CUT FOR EXCAVATION OR DAMAGED.
2. KEEP HEAVY CONSTRUCTION TRAFFIC OFF THE EXISTING DRAINFIELD BELOW THE PAVED PARKING AREA.
3. CONSTRUCTION MATERIAL STAGING & STORAGE AREAS WILL BE REVIEWED AT THE PRE-BID MEETING.



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**NOVUM BAPTIST CHURCH
SANCTUARY ADDITION**
1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735



REVISIONS:

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CHECKED:
SCALE: NOTED
DATE: 11-25-25
PROJECT #: 2418

ENLARGED SITE SKETCH
AS.2

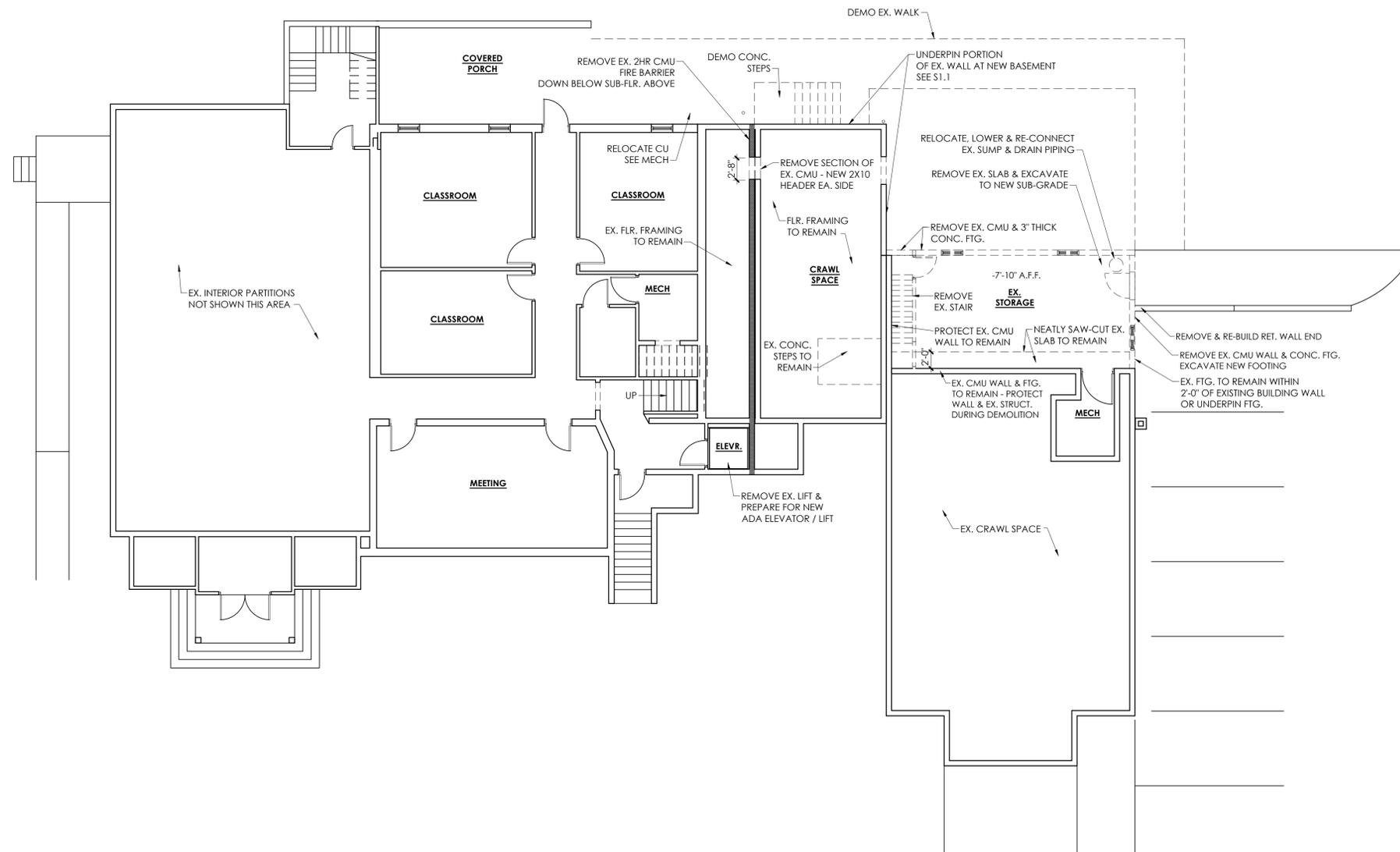
NOVUM CHURCH ROAD

ROUTE 605 - 30' PRESCRIPTIVE
DB/PG 122/245

ARCHITECTURAL ENLARGED SITE PLAN
SCALE: 1" = 10'

SITE PLAN DIGITAL DATA DATED 01-10-2025 PROVIDED BY HINCHEY-BAINES, LLC FROM PREVIOUS APPROVED SITE PLAN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.





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



GENERAL DEMOLITION NOTES

SEE PROJECT MANUAL SECTION 01732 SELECTIVE DEMOLITION FOR ADDITIONAL INFORMATION & REQUIREMENTS.

THE INTENT OF DEMOLITION ACTIVITIES GENERALLY IS TO PREPARE FOR NEW FINISHED WORK AND TO RETURN EXISTING DISTURBED AREAS TO A CONDITION TO MATCH EXISTING ADJACENT FINISHES. IT IS IMPERATIVE THAT THE CONTRACTOR AND ANY SUB- CONTRACTORS INVOLVED IN THE WORK EXAMINE THE SITE PRIOR TO SUBMITTING A BID TO IDENTIFY MISC. AREAS OF REPAIR NECESSARY TO COMPLETE THE WORK. REQUESTS FOR CHANGES WILL NOT BE GRANTED TO PERFORM DEMOLITION WORK REQUIRED TO COMPLETE THE PROJECT THAT IS VISIBLE AT THE TIME BIDS ARE SUBMITTED.

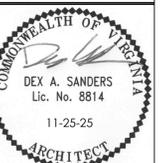
1. WHERE FLOOR, WALLS OR CEILING ARE REMOVED, REPAIR EXISTING ADJACENT FLOOR, BASE, WALLS & CEILING TO MATCH ADJACENT FINISHES UNLESS OTHERWISE SCHEDULED. PROVIDE NEW COVER PLATES WHERE PLATES ARE MISSING OR DAMAGED. UNLESS OTHERWISE NOTED, TOUCH UP REPAINTING SHALL COVER ENTIRE WALL SURFACE AFFECTED BY DEMOLITION. RE-PAINT BOTH SIDES OF DOORS & FRAMES IN AREAS SCHEDULED FOR NEW FINISHES.
2. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN FULL COOPERATION AND COORDINATION W/ OWNER. COORDINATE ALL LOSS OR REDUCTION OF EGRESS ELEMENTS OR ELECTRICAL OR COMMUNICATIONS SYSTEMS WITH OWNER. FOR INTERIOR REMODELING, ERECT DUST BARRIERS & NEGATIVE PRESSURE ENCLOSURES AROUND ENTIRE NEW CONSTRUCTION AREA TO PROTECT ADJACENT SPACES FROM DUST AND DEBRIS. **CONTRACTOR SHALL MAINTAIN DUST BARRIER INTEGRITY TO OWNER'S SATISFACTION AT ALL TIMES UNTIL SUBSTANTIAL COMPLETION.** VERIFY AT PRE-CONSTRUCTION MEETING ACCESS TO WORK AREA AND EXTENT OF WORK TO BE PERFORMED AFTER HOURS.
3. WHERE EXIST. ITEMS ARE RELOCATED, REPAIR DAMAGES TO ORIGINAL LOCATION AND PROVIDE HANGERS, SUPPORTS, WIRING, CONDUIT, ETC. NECESSARY FOR THE RELOCATION.
4. **PROTECT EXISTING STRUCTURE FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.** EXTREME CARE MUST BE TAKEN NOT TO DAMAGE OR DISTURB EXISTING EQUIPMENT WHILE PERFORMING WORK. DO NOT TURN OFF BREAKERS OR VALVES WITHOUT OWNER'S PERMISSION.
5. DURING REGULAR BUSINESS HOURS, MAINTAIN REQUIRED EXITS FROM BUILDING TO THE SATISFACTION OF THE BUILDING OFFICIAL.
6. U.N.O. EXISTING VALVES, ELECTRICAL RECEPTACLES, SWITCHES & EQUIPMENT SERVICING EXISTING FACILITY TO REMAIN. CONTRACTOR SHALL COORDINATE ALL POWER OR FIRE ALARM SYSTEM INTERRUPTIONS WITH OWNER'S REPRESENTATIVE.
7. WHERE NEW PENETRATIONS ARE MADE THRU EXISTING EXTERIOR WALLS OR ITEMS ARE REMOVED CREATING HOLES - SEAL FOR INSULATED & WEATHER-TIGHT ENCLOSURE.
8. IT IS THE INTENTION OF THESE BID DOCUMENTS TO IDENTIFY THE GENERAL DESIGN INTENT OF THE DEMOLITION AND REMODELING WORK NECESSARY FOR THE PERFORMANCE OF THIS REMODELING PROJECT. CONTRACTOR & SUB-CONTRACTORS MUST FIELD VERIFY EXISTING MISC. VISIBLE CONDUIT, PIPING, EQUIPMENT AND OTHER ITEMS THAT WILL NEED TO BE REMOVED AND OR RELOCATED. THIS WILL REQUIRE VISITING THE SITE PRIOR TO SUBMITTING BIDS TO UNDERSTAND EXISTING CONDITIONS FOR ITEMS TO BE REMOVED AND OR RELOCATED. THE OWNER'S CONSTRUCTION REPRESENTATIVE(S) SHOULD BE CONTACTED PRIOR TO BIDS SO ANY QUESTIONS MAY BE ANSWERED BEFORE BIDS ARE SUBMITTED.
9. FINISHED FLOOR SPACE IS EXTREMELY VALUABLE TO THE OWNER. CONTRACTOR TO BOX TIGHTLY AROUND ALL EXPOSED PIPING & CONDUIT WITH SCHEDULED FINISH. CONTRACTOR SHALL BOX IN AROUND PIPING, CONDUITS, MISC. DUCTS & OTHER EXPOSED PIPING WITH GPDW ON METAL FRAMING.
10. REPORT ANY DAMAGE TO EXISTING EQUIPMENT OR STRUCTURE TO OWNER AT THE TIME OF DAMAGE - EVEN IF THE DAMAGE IS PROMPTLY REPAIRED.
11. SEE MEP SHEETS FOR ADDITIONAL EQUIPMENT DEMOLITION AND HOLES REQUIRED.
12. WHERE EXISTING WALLS ARE REMOVED REPAIR FLOOR AND CEILING TO MATCH ADJACENT EXISTING SURFACES OR FOR NEW FINISH AS INDICATED.



FOR CONSTRUCTION



NOVUM BAPTIST CHURCH
SANCTUARY ADDITION
1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735



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DEMOLITION PLAN

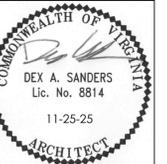
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FOR CONSTRUCTION



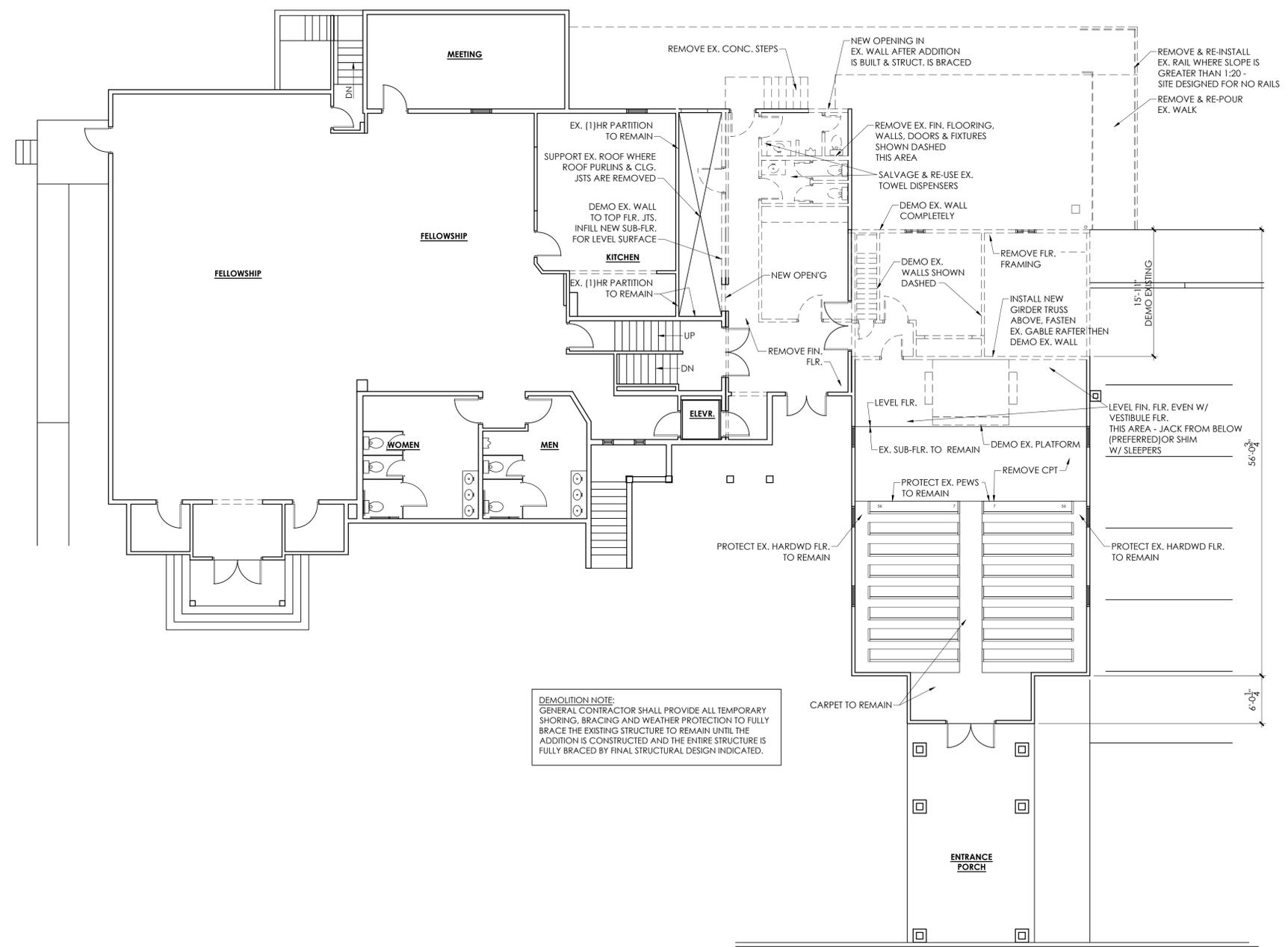
NOVUM BAPTIST CHURCH
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DEMOLITION PLAN

D1.1



DEMOLITION NOTE:
GENERAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING, BRACING AND WEATHER PROTECTION TO FULLY BRACE THE EXISTING STRUCTURE TO REMAIN UNTIL THE ADDITION IS CONSTRUCTED AND THE ENTIRE STRUCTURE IS FULLY BRACED BY FINAL STRUCTURAL DESIGN INDICATED.

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



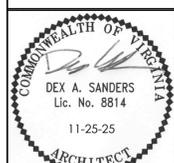


FOR CONSTRUCTION



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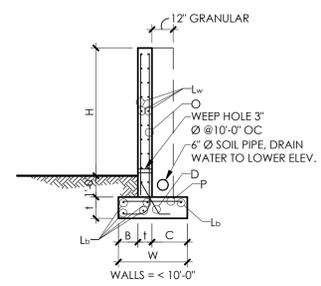
NOVUM BAPTIST CHURCH
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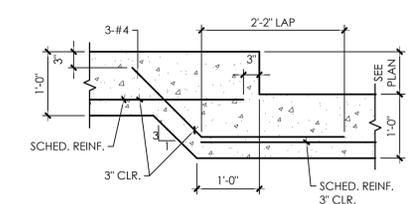
FOUNDATION PLAN & DETAILS

S1.1



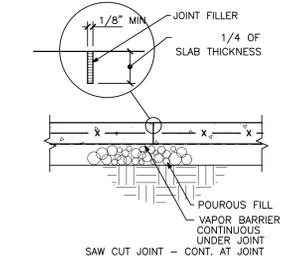
H	4'	6'	8'	10'
t	8"	8"	12"	12"
W	2'-4"	3'-3"	4'-1"	5'-1"
C	1'-0"	1'-8"	1'-10"	2'-7"
B	8"	11"	1'-3"	1'-6"
O	#4 @ 13"	#4 @ 13"	#4 @ 9"	#4 @ 9"
M	-	-	-	-
D	#4 @ 13"	#4 @ 13"	#4 @ 9"	#4 @ 9"
Lw	#4 @ 12"	#4 @ 12"	#5 @ 12"	#5 @ 12"
P	#5 @ 13"	#5 @ 13"	#4 @ 9"	#4 @ 9"
Lb	5 #4	5 #4	5 #5	5 #5

CONCRETE RETAINING WALL SCHEDULE
SCALE: 1/4" = 1'-0"

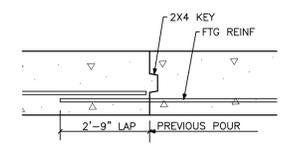


FOOTING STEP DETAIL
SCALE: 3/4" = 1'-0"

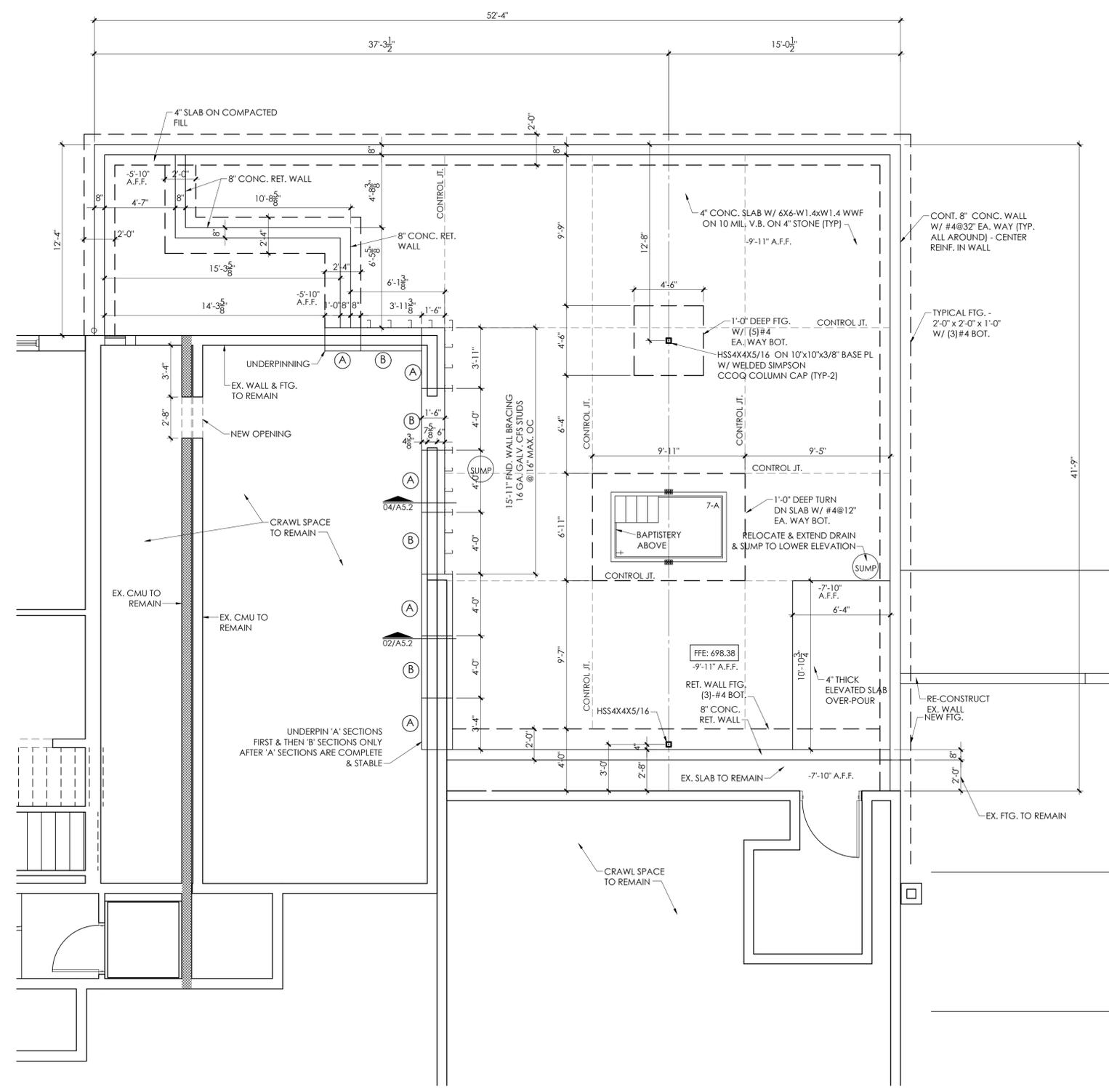
SUPPORT MESH W/ CONT. SLAB BOLSTERS @ 4'-0" OC
MAX. W/ CONT. HORIZ. BOTTOM PLATES
SOFT SAWCUT JOINTS AS SOON AS POSSIBLE



CONTROL JOINT DETAIL
SCALE: 3/4" = 1'-0"



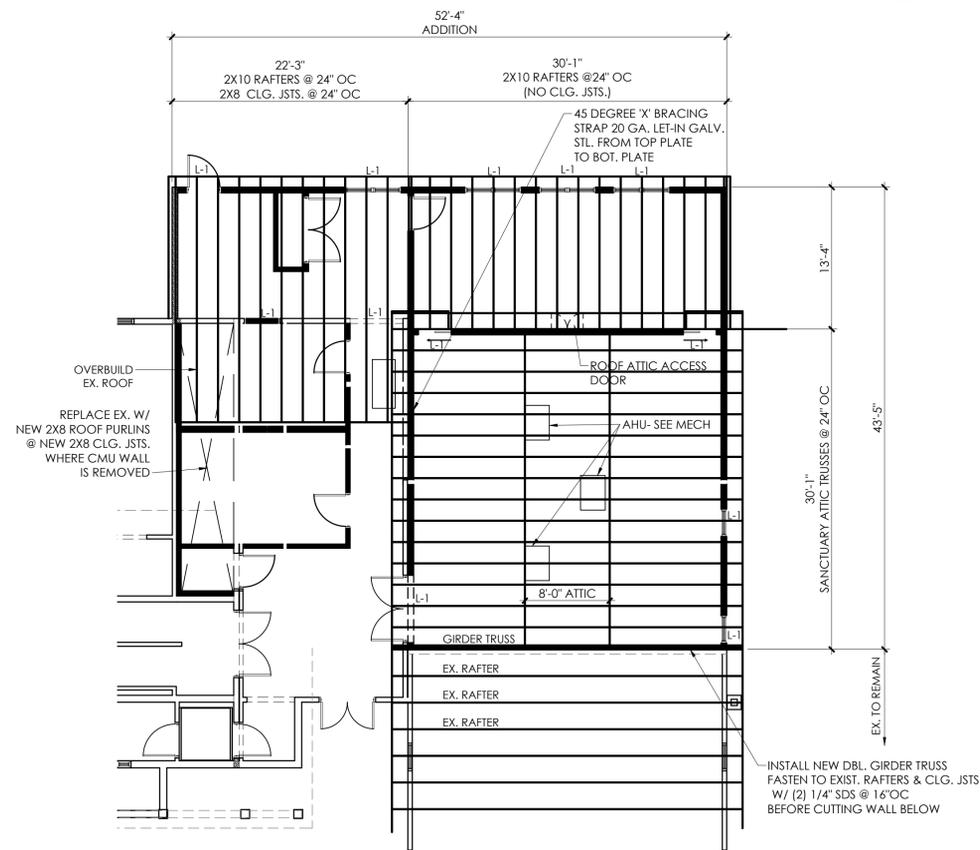
FOOTING CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



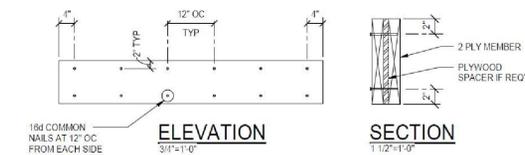
- FOUNDATION NOTES:**
- TOP OF SLAB REFERENCES FINISHED FLOOR ELEVATION RELATIVE TO SANCTUARY 0'-0". VERIFY FINISHED FLOOR ELEVATION WITH CIVIL SITE PLAN.
 - TYPICAL INTERIOR SLAB ON GRADE: 4" THICKNESS, 3,500 PSI CONCRETE W/ 6X6-W1.4XW1.4 WWF AT MD-DEPTH, OVER 10 MIL. VAPOR BARRIER OVER 4" COMPACTED #57 STONE.
 - TYPICAL EXTERIOR SLAB ON GRADE: 4" THICKNESS, 3,000 PSI AIR ENTRAINED CONCRETE W/ 6X6-W1.4XW1.4 WWF AT MD-DEPTH, OVER 4" MIN. COMPACTED #57 STONE. LIGHT BROOM FINISH NO MICRO-FIBER. PROVIDE EXPANSION & CONTROL JOINTS PER VDOT STANDARD SIDEWALK SPECIFICATIONS. (SEE CIVIL)
 - FOOTING EXCAVATIONS MAY REQUIRE ADDITIONAL UNDERCUT AS INDICATED BY THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER. LOWER FTG. OR BACKFILL EXCAVATION TO DESIGN SUB-GRADE USING FLOWABLE FILL OR OTHER MATERIAL ONLY AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
 - GROUT CMU & GAP BETWEEN CMU / MASONRY & ICF PANEL CONT. SOLID BELOW GRADE.
 - IN ADDITION TO WWF, PROVIDE 1.0 POUNDS PER CUBIC YARD POLYPROPYLENE MICRO-FIBER REINF. IN ALL INTERIOR SLABS ON GRADE.
 - PROVIDE CONCRETE CONTROL JOINTS TO DIVIDE SLAB INTO AREAS LESS THAN 120 SF AND NO LONGER THAN 15'-0" IN ANY DIRECTION.

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

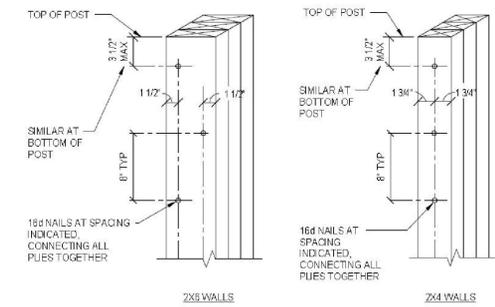




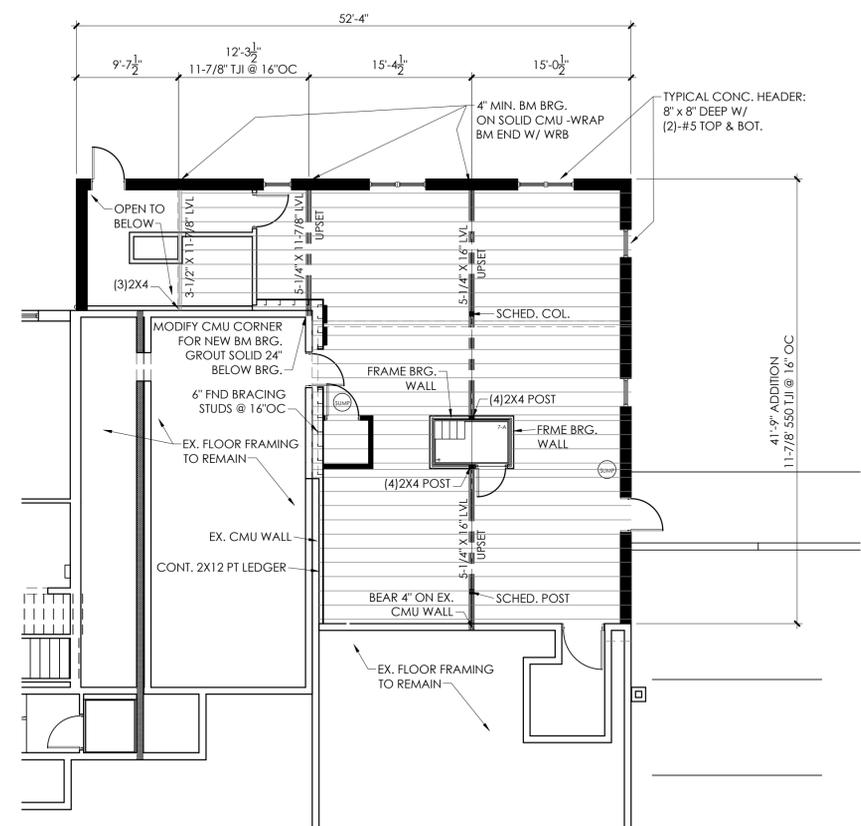
ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



TYPICAL MULTI-PLY HEADER/BEAM DETAIL



TYPICAL DETAIL AT POST COMPRISED OF MULTIPLE STUDS
1 1/2" x 1'-0"



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



WOOD FRAMING NOTES

1. ALL ROUGH CARPENTRY SHALL CONFORM TO THE REQUIREMENTS OF THE NDS-2018 NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION.

PROVIDE NO. 2 SOUTHERN PINE OR EQ. WITH 19% MAXIMUM MOISTURE CONTENT FOR ALL FRAMING LUMBER INCLUDING, UNTELS, JOISTS, RAFTERS, AND BEAMS UNLESS NOTED OTHERWISE. WALL STUDS AND PLATES MAY BE S-P-F No. 1 / 2 U.N.O. ON PROJECT SPECIFIC DETAILS AND NOTES.

PROVIDE MICROLAM VENEER LUMBER (LVL) MIN. 2.0E, PARALLAM PARALLEL STRAND LUMBER (PSL), AND TIMBERSTRAND LUMBER (LSL) MIN. 1.8E, MANUFACTURED BY TRUS JOIST (OR APPROVED EQUAL) WHERE INDICATED.

ALL FRAMING CONNECTIONS NOT SPECIFICALLY INDICATED ON THESE CONSTRUCTION DOCUMENTS SHALL COMPLY WITH THE MINIMUMS ESTABLISHED BY TABLE 2304.9.1 OF THE VUSBC.

ALL NAILED CONNECTIONS (OF TWO 2x MEMBERS) SPECIFICALLY INDICATED ON THESE CONSTRUCTION DOCUMENTS ARE ASSUMED TO BE DONE USING A MINIMUM NAIL SIZE OF 0.131" DIAMETER x 3" LONG UNLESS NOTED OTHERWISE.

ALL LIGHT GAGE STEEL PRE-FORMED CONNECTORS SHALL BE INSTALLED USING THE NUMBER OF NAILS AND NAIL TYPE LISTED FOR THAT CONNECTOR BY THE MANUFACTURER IN THEIR PUBLISHED LITERATURE. ALL NAILS LISTED AS 1 1/2" LONG SHALL BE MADE BY THE MANUFACTURER OF THAT CONNECTOR. HANGERS OR CONNECTORS USED WITH PRESSURE TREATED LUMBER SHALL HAVE G185 MINIMUM ZINC COATING (I.E. SIMPSON ZMAX G185).

PROVIDE A MINIMUM OF THREE INCHES OF BEARING FOR ENGINEERED LUMBER BEAMS, UNLESS OTHERWISE NOTED.

ALL BEAMS SHALL BE LATERALLY SUPPORTED BY BLOCKING OR OTHER MEANS AT ALL POINTS OF BEARING.

NAILS INSTALLED PARALLEL TO THE GLUE LINES ON THE NARROW FACE OF ENGINEERED LUMBER BEAMS SHALL NOT BE SPACED CLOSER THAN FOUR INCHES FOR 10d COMMON NAILS AND THREE INCHES FOR 8d COMMON NAILS.

DO NOT DRILL, NOTCH, CUT (EXCEPT TO LENGTH), OR ALTER ENGINEERED LUMBER BEAMS OR JOISTS WITHOUT WRITTEN APPROVAL OF FABRICATOR AND REVIEW BY STRUCTURAL ENGINEER.

2. ALL POST-INSTALLED ANCHORS (IN CONCRETE OR CMU) ARE TO BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING BUT NOT LIMITED TO DRILL BIT SIZE, PROPER CLEANING OF HOLES, INSTALLATION TORQUE, AND TEMPERATURE CONSTRAINTS).

WHEN A SPECIFIC PRODUCT AND MANUFACTURER IS REFERENCED IN THE CONTRACT DOCUMENTS, THAT SPECIFIC PRODUCT SHALL BE USED UNLESS AN ALTERNATE PRODUCT IS APPROVED IN WRITING BY THE ARCHITECT OR STRUCTURAL ENGINEER OF RECORD PRIOR TO USE.

WOOD FRAMING NOTES (CONT.)

FASTENERS GENERICALLY REFERRED TO AS "SCREW ANCHOR" ON THE DRAWINGS SHALL BE ONE OF:

- TITEN HD BY SIMPSON STRONG-TIE ANCHOR SYSTEMS
 - KWIK HUS-EZ BY HILTI
- FOR THESE SCREW ANCHORS LISTED, USE STANDARD ANSI DRILL BIT (NO SPECIAL BIT REQUIRED), PROVIDE HOLES IN STEEL MEMBERS 1/8" LARGER THAN NOMINAL DIAMETER OF ANCHOR.

CHEMICAL ADHESIVE ANCHORING SYSTEMS USED IN CONCRETE GENERICALLY REFERRED TO AS "ADHESIVE ANCHORS" SHALL BE ONE OF:

- SET-XP BY SIMPSON STRONG TIE
- AT-XP BY SIMPSON STRONG TIE
- HIT-RE 500-V3 BY HILTI
- HIT-HY 200 BY HILTI

THREADED ROD ANCHORS USED WITH THESE SYSTEMS SHALL BE PROVIDED BY THE ADHESIVE MANUFACTURER AND HAVE A MINIMUM STEEL STRENGTH OF $F_y = 36$ KSI UNLESS NOTED OTHERWISE. REINFORCING STEEL USED WITH THESE SYSTEMS SHALL COMPLY WITH ASTM A615 GRADE 60.

ANY PRODUCTS SUBMITTED AS A REQUEST FOR SUBSTITUTION SHALL BE COMPLIANT WITH ACI 318-11 APPENDIX D AND APPROVED FOR USE IN CRACKED CONCRETE. FASTENERS GENERICALLY REFERRED TO AS "EXPANSION ANCHORS" OR "WEDGE ANCHORS" SHALL BE ONE OF:

- KWIK BOLT TZ BY HILTI
 - STRING-BOLT 2 BY SIMPSON STRONG-TIE ANCHOR SYSTEMS
 - POWER-STUD + SD2 BY POWERS FASTENERS
- FASTENERS GENERICALLY REFERRED TO AS "CONCRETE/MASONRY SCREWS" SHALL BE ONE OF:
- KWIK-CON II + BY HILTI
 - TITEN BY SIMPSON STRONG-TIE ANCHOR SYSTEMS (DO NOT USE TITEN HD MINI)
 - TAPPER + BY POWERS FASTENERS

ROOF FRAMING NOTES

1. ALL TRUSSES @ 24" OC MAXIMUM UNLESS NOTED OTHERWISE. WHERE TRUSSES ARE INDICATED AS SPREAD, PROVIDE 2X6 @ 24" OC TOP AND BOTTOM CHORDS.

2. CONTRACTOR TO PROVIDE ALL BLOCK'G, BRACING & OTHER FRAMING NECESSARY TO FRAME ALL CEILINGS, SOFFITS, CHASES & SKYLIGHTS.

3. CONTRACTOR TO PROVIDE WALK SURFACES & PLATFORMS TO ACCESS & MAINTAIN HVAC EQUIPMENT LOCATED ON THE ROOF. EQUIPMENT ACCESS AND SERVICE SPACE SHALL COMPLY WITH 2021 VIRGINIA MECHANICAL CODE.

4. COORDINATE EXACT EQUIPMENT LOCATIONS, WEIGHT AND DUCT ROUTING WITH TRUSS MFG BEFORE TRUSS ORDER.

5. COORDINATE FRESH AIR INTAKE LOUVERS & END WALL OPENINGS WITH TRUSS MFG.

6. TRUSSES TO BE DESIGNED BY MFG. ENGINEERED DRAWINGS ARE REQUIRED TO HAVE VIRGINIA PROFESSIONAL SEAL. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION.

7. DESIGN TRUSSES: L/480 FOR LIVE LOAD & L/360 FOR LIVE LOAD + DEAD LOAD.

8. TRUSS MFG. TO PROVIDE TRUSS CLIPS FOR MULTIPLE PLY TRUSSES.

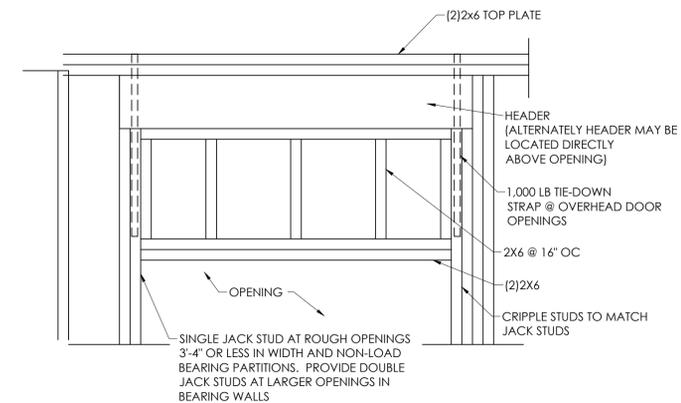
9. TRUSS MANUFACTURER SHALL DESIGN COMPLETE BRACING SYSTEM AND PROVIDE PLANS AND DETAILS OF BRACING AS PART OF TRUSS DRAWING SUBMITTAL. PROVIDE FULL BRACING REQUIRED FOR SUPPORT WITH NO INTERIOR OR EXTERIOR CEILING FINISHES.

PROVIDE COMPLETE BRACING FOR PIGGY BACK TRUSSES.

LAP SPICES OF BRACING MEMBERS ACROSS (2) TRUSSES MINIMUM.

TYPICAL NAILING SCHEDULE		
MEMBER	NAILS	CONNECTION
JOIST TO SILL OR GIRDER	(3) 8d COMMON (3) 3" x 0.131" DIA	TOE NAIL
BRIDGING TO JOIST	(2) 8d COMMON (2) 3" x 0.131" DIA	TOE NAIL EACH END
SOLE PLATE TO JOIST OR BLOCKING	16d COMMON AT 16" OC (3) 3" x 0.131" DIA AT 8" OC	FACE NAIL
TOP PLATE TO STUD	(2) 16d COMMON (3) 3" x 0.131" DIA	END NAIL
STUD TO SOLE PLATE	(4) 8d COMMON (4) 3" x 0.131" DIA	TOE NAIL
	(2) 16d COMMON (3) 3" x 0.131" DIA	END NAIL
DOUBLED STUDS	16d COMMON AT 24" OC (3) 3" x 0.131" DIA AT 8" OC	FACE NAIL
DOUBLED TOP PLATE	16d COMMON AT 16" OC (3) 3" x 0.131" DIA AT 8" OC	FACE NAIL
DOUBLED TOP PLATE LAP SPICE	(8) 16d COMMON (12) 3" x 0.131" DIA	FACE NAIL
TOP PLATE INTERSECTIONS	(2) 16d COMMON (3) 3" x 0.131" DIA	FACE NAIL
CONTINUOUS HEADER MULTI-PLY	16d COMMON AT 16" OC	FACE NAIL ALONG EACH EDGE
CONTINUOUS HEADER TO STUD	(4) 8d COMMON	TOE NAIL
BUILT-UP CORNER STUDS, EACH BRG	16d COMMON AT 24" OC (3) 3" x 0.131" DIA AT 16" OC	FACE NAIL
RIM JOIST TO TOP PLATE	6d COMMON AT 6" OC (3) 3" x 0.131" DIA AT 6" OC	TOE NAIL

NOTE: USE NAILS SPECIFIED BY MANUFACTURER FOR ALL MANUFACTURED METAL CONNECTORS (SIMPSON STRONG-TIE OR EQUIVALENT HANGERS, UPLIFT ANCHORS, ETC.)



- WHERE HEADERS ARE SHOWN ON FLOOR AND ROOF FRAMING PLANS, THE WALL DIRECTLY BELOW THE HEADER MAY BE CONSIDERED NON-LOAD BEARING.
- HEADER SIZES:

NON-LOAD BEARING PARTITION (2)2X8 (3)2X10 U.N.O. (2)2X12

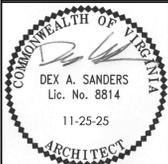
TYPICAL WALL OPENING HEADER DETAIL
SCALE: 3/4" = 1'-0" (WOOD FRAMED WALLS)



FOR CONSTRUCTION



NOVUM BAPTIST CHURCH
SANCTUARY ADDITION
1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735



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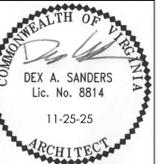
FLOOR & ROOF FRAMING PLANS



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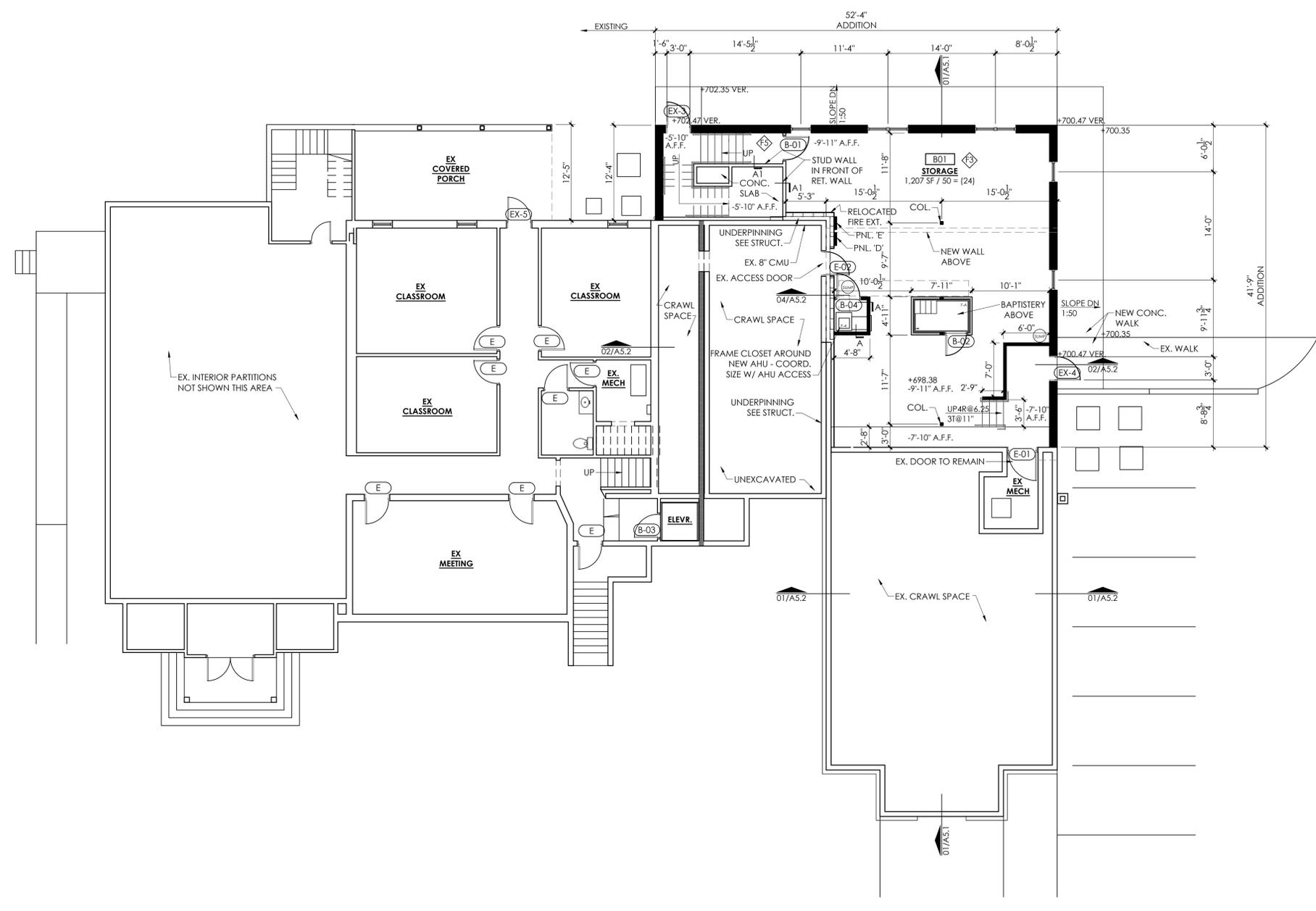
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NOVUM BAPTIST CHURCH
 SANCTUARY ADDITION
 1629 NOVUM CHURCH ROAD
 REVA, VIRGINIA 22735



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



ROOM / SPACE OCCUPANCY DETERMINATION
 NOTE THAT TOTAL FLOOR OCCUPANCY IS INDICATED ON SHEET CS.1

T115A	ROOM / SPACE NUMBER
CONFERENCE	ROOM / SPACE NAME
239 SF / 100 = 2	OCCUPANCY BASED ON TABLE 1004.1.2
(8)	DESIGN (ACTUAL) ROOM / SPACE OCCUPANCY (T1004.5)

FLOOR PLAN

A1.0

WALL TYPES

NOTES:

1. PROVIDE MIN. 3" SOUND BATTS INSULATION IN ALL INTERIOR PARTITIONS BETWEEN ACOUSTICALLY SEPARATED AND OCCUPIED SPACES U.N.O.
2. SEAL AROUND ALL EDGES AT SOUND PARTITIONS WITH FLEXIBLE SEALANT.
3. PROVIDE MR GPDW AT WET WALLS (WHERE NOT FIRE RATED)
4. ALL PARTITIONS TO EXTEND TO U/S OF ROOF STRUCTURE U.N.O. SEE FLOOR PLAN & SECTIONS. PROVIDE SLIP CHANNEL / HIGH LEG TOP CHANNEL FOR ALL INTERIOR NON-BEARING PARTITIONS ATTACHING TO ROOF TRUSS STRUCTURE.
5. THICKEN PARTITIONS & PROVIDE CHASES TO CONCEAL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS PIPING, DUCTS OR CONDUIT RUNS.

TYPE 'A' 5/8" GPDW EACH SIDE ON 2X4 STUDS @ 16" OC MAX. (3" SOUND BATTS) - **TYPICAL ALL WALLS U.N.O.**

TYPE 'A1' 5/8" GPDW ONE SIDE ON 2X4 STUDS @ 16" OC MAX. - FURRED WALL (R-15 INSUL. @ EXTERIOR WALLS)

TYPE 'B' 5/8" GPDW EACH SIDE ON 2X6 STUDS @ 16" OC MAX. (6" BATTS)

TYPE 'C' 5/8" GPDW EACH SIDE ON 6" WOOD STUDS @ 16" OC MAX. (6" ROCKWOOL SOUND BATTS) - BEARING WALL

TYPE 'F1' **(2) HOUR FIRE BARRIER ASSEMBLY**
 MODIFY THE EXISTING (1) HOUR RATED U.L. U305 ASSEMBLY TO ACHIEVE A NEW (2) HOUR RATED COMBINED ASSEMBLY BY ADDING A NEW (1) HOUR RATED WALLBOARD MEMBRANE ON NEW 2X4 FRAMING TIGHT TO THE EXISTING (1) HOUR RATED U.L. ASSEMBLY.

FROM TABLE 722.6.2(1):
 [BASE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO STUDS @ 16" OC MAXIMUM WITH 1-1/4" TYPE 'S' 12" OC AT JOINTS & 24" OC IN FIELD. FACE LAYER 5/8" TYPE 'X' GYPSUM WALL BOARD W/ HORIZONTAL JOINTS STAGGERED 24" EACH SIDE & APPLIED AT RIGHT ANGLES TO STUD THROUGH BASE LAYERS WITH 1-7/8" TYPE 'S' OR TYPE 'W' DRYWALL SCREWS 12" OC AT JOINTS. FACE LAYER TYPE 'G' DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS, 12" OC.]

TYPE 'F.2' (1) HOUR RATED EXTERIOR WALL FIRE BARRIER: (1) LAYER 5/8" DENS-GLASS FIRE GUARD SHEATH'G ON EXTERIOR SIDE 2X6 STUDS @ 16" OC. (1) LAYER 5/8" TYPE 'X' GWB ON INTERIOR SIDE (UL U309)

FINISH SCHEDULE

- GENERAL FINISH NOTES:**
1. SEE CEILING PLAN FOR EXTENT OF PAINTED SOFFITS & SUSPENDED CEILING.
 2. COLORS / PATTERNS AS SELECTED BY OWNER. SUBMIT PHYSICAL SAMPLES & MANUFACTURER COLOR CHARTS FOR OWNER SELECTION.
 3. UP TO (2) DIFFERENT WALL COLORS MAY BE SELECTED BY OWNER PER SPACE.
 4. PROVIDE WOOD SHOE MOLD AT ALL AREAS OF NEW PTD. WOOD BASE. EXTEND NEW SHOE TO EXISTING AREAS WITHOUT SHOE IN THE SAME REMODELED SPACE.
 5. MATCH EXISTING PAINTED WOOD BASE & CASING SIZE PROFILES OF INSIDE SANCTUARY & NEW CLASSROOM AND MATCH VESTIBULE BASE AND CASINGS FOR OTHER 1ST FLOOR SPACES.

<p>F-1 FLOOR - CARPET (MATCH EX.) BASE - PTD WOOD WALLS - PTD EGGSHELL ENAMEL TRIM - PTD SEMI-GLOSS ENAMEL CEILING - PRE-FINISHED TIN</p> <p>F-2 FLOOR - LVP BASE - PTD. WOOD WALLS - PTD EGGSHELL ENAMEL TRIM - PTD SEMI-GLOSS ENAMEL CEILING - PTD. GWB / TIN @ 102</p>	<p>F-3 FLOOR - CONCRETE COATING BASE - 4" RUBBER COVE WALLS - PTD SEMI-GLOSS ENAMEL TRIM - PTD SEMI-GLOSS ENAMEL CEILING - PTD. FLAT</p> <p>F-4 FLOOR - LVP BASE - PTD. WOOD WALLS - PTD SEMI-GLOSS ENAMEL TRIM - PTD SEMI-GLOSS ENAMEL CEILING - PTD. GWB</p> <p>F-5 STAIRS LANDINGS - LVP TREADS & RISERS - RUBBER NON-SLIP BASE - PTD WOOD WALLS - PTD EGGSHELL TRIM - PTD SEMI-GLOSS ENAMEL CEILING - PTD GWB FLAT (TYP)</p>
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WALL LEGEND

	NEW TYP. FRAME PARTITION - 5/8" GWB EA. SIDE ON 2X4@16" OC MAX. W/ MIN. 3" ROCKWOOL SOUND BATTS. PROVIDE 2X6 FRAMING AT WET WALLS.
	(1) HOUR RATED BARRIER
	EXISTING PARTITION TO REMAIN SEE WALL TYPES

UPPER FLOOR PLAN

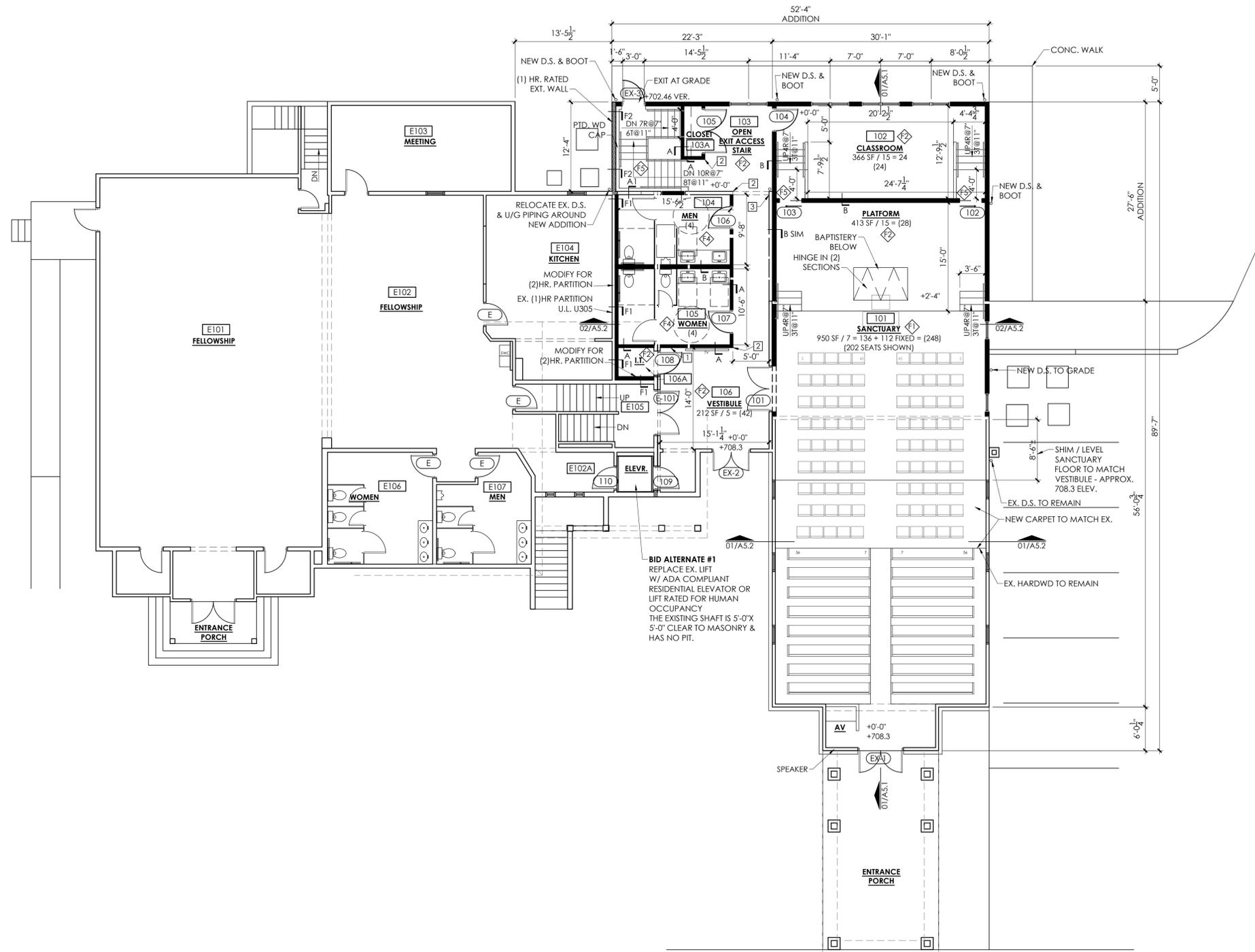
SCALE: 1/8" = 1'-0"



ROOM / SPACE OCCUPANCY DETERMINATION

NOTE THAT TOTAL FLOOR OCCUPANCY IS INDICATED ON SHEET CS.1

115A	ROOM / SPACE NUMBER
CONFERENCE	ROOM / SPACE NAME
239 SF / 100 = 2	OCCUPANCY BASED ON TABLE 1004.1.2
(8)	DESIGN (ACTUAL) ROOM / SPACE OCCUPANCY (I1004.5)



BID ALTERNATE #1
 REPLACE EX. LIFT W/ ADA COMPLIANT RESIDENTIAL ELEVATOR OR LIFT RATED FOR HUMAN OCCUPANCY THE EXISTING SHAFT IS 5'-0" X 5'-0" CLEAR TO MASONRY & HAS NO PIT.

PLAN NOTES:

1. RELOCATE EXISTING WALL MOUNTED TYPE 2-A FIRE EXTINGUISHER.
2. PROVIDE WALLGUARD.COM 2'X2'X 8'-0" LONG (ABOVE BASE) ADHESIVE APPLIED VINYL CORNER GUARD.
3. PROVIDE 1/2" GPDW CONT. VERTICAL CONTROL JOINT.



FOR CONSTRUCTION



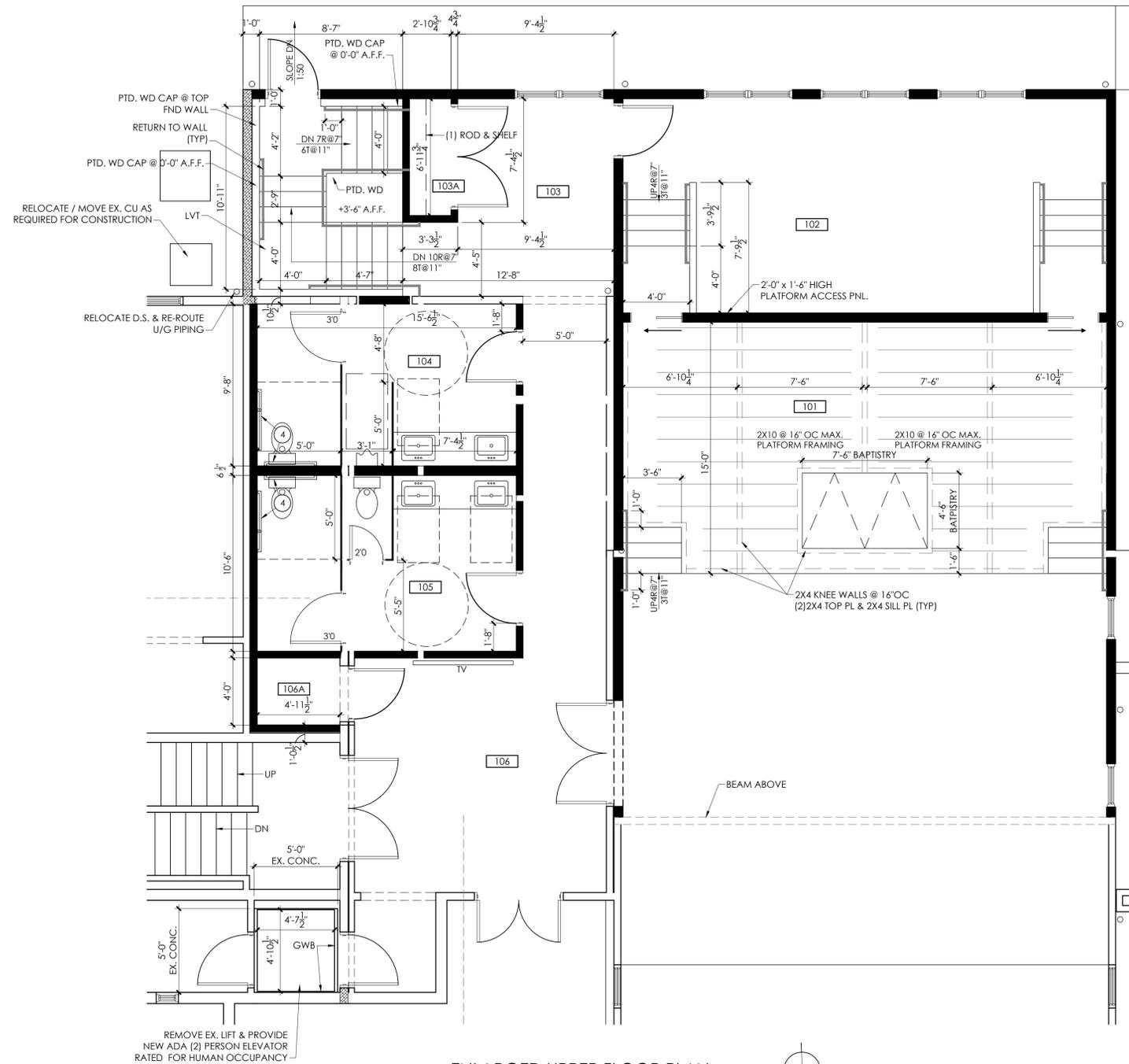
NOVUM BAPTIST CHURCH
 SANCTUARY ADDITION
 1629 NOVUM CHURCH ROAD
 REVA, VIRGINIA 22735



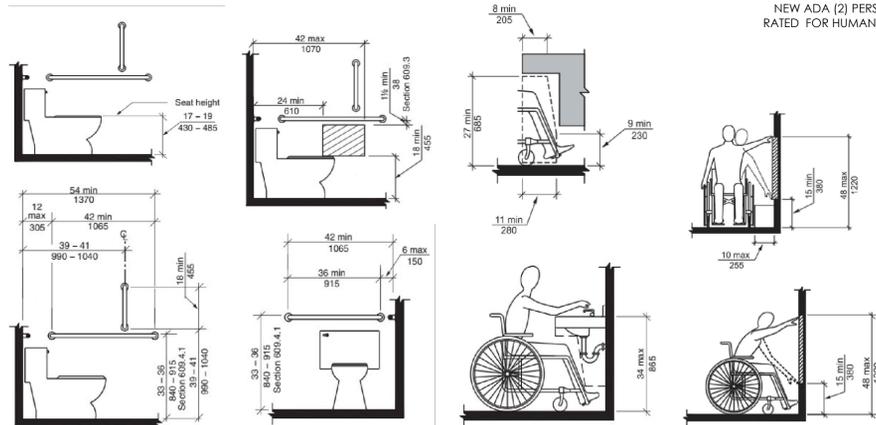
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FLOOR PLAN

A1.1



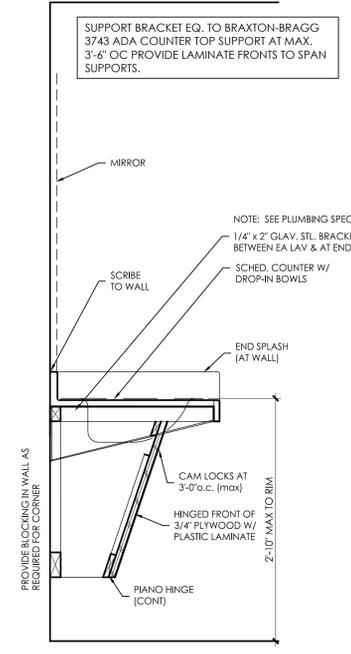
ENLARGED UPPER FLOOR PLAN
SCALE: 1/4" = 1'-0"



TYPICAL ACCESSIBLE DETAILS
SCALE: NONE

1. DETAILS SHOW TYPICAL ACCESSIBLE MOUNTING HEIGHTS & CLEARANCES.
2. SPECIFIED PRODUCTS MAY VARY FROM THE IMAGE.
3. SPECIAL MOUNTING HEIGHTS MAY BE SHOWN ON OTHER SHEETS
4. ORDER TOILETS WITH FLUSH VALVES ON THE OPEN SIDE OF THE TOILET.
5. REACH RANGE HEIGHTS SHOWN ARE TO OPERABLE PARTS AND TYPICAL FOR DEVICES SUCH AS FIRE AND ELECTRICAL.
6. MIRRORS ABOVE SINKS AND LAVATORIES SHALL BE MOUNTED WITH THE TOP AT 72" MINIMUM AND THE BOTTOM AT 39" MAXIMUM

- WASHROOM ACCESSORIES** ①
1. TOILET TISSUE HOLDER: BOBRICK SS DOUBLE ROLL HOLDER. (1) AT EACH TOILET.
 2. TOWEL DISPENSER: PROVIDED BY OWNER - REUSE EXISTING FROM DEMOLITION. VERIFY BLOCKING IF WALL MTD.
 3. MIRROR: LENGTH OF COUNTER OR LAV. (24" WIDE MIN) x 3'-0" HIGH 1/2" FLOAT GLASS BEVEL EDGE FRAME LESS - SECURELY GLUED & CLIPPED TO WALL. MIRROR SHALL BE GUARANTEED AGAINST SILVER SPOILAGE FOR 15 YEARS.
 4. TOILET STALL GRAB BARS: EQ. TO ASI 3800 SERIES W/ INTEGRAL NON-SLIP SURFACE. PROVIDE (1)-42" LONG & (1)-36" & (1) 18" LONG GRAB BAR AS INDICATED IN EACH ACCESSIBLE TOILET STALL.
- NOTE: CONTRACTOR TO VERIFY BLOCKING LOCATIONS.
- TOILET PARTITION SPECIFICATION**
1. TOILET PARTITIONS TO BE EQUAL TO GLOBAL INTEGRAL COLOR POLYMER, FLOOR ANCHORED AND OVERHEAD BRACED AS FOLLOWS:
 POLYMER PANELS
 HIGH DENSITY POLYETHYLENE PANELS, HOMOGENEOUS COLOR THROUGHOUT
 PARTITION TYPE
 FLOOR ANCHORED W/ OVERHEAD BRACING OF ALL PARTITIONS.
 DOORS & PANELS
 55" HIGH & MOUNTED 14" ABOVE THE FLOOR, 1" THICKNESS. DOORS TO SWING IN BOTH DIRECTIONS.
 PILASTERS
 1" THICKNESS. INTEGRAL STEEL BASE AND TOP MOUNTING BAR.
 HARDWARE
 A. DOOR HARDWARE SHALL BE CHROMIUM-PLATED DIE CAST ZAMAC. HINGES TO BE ADJUSTED FOR SELF CLOSING. HARDWARE TO INCLUDE COAT HOOK, BUMPER, STOP AND KEEPER. LATCH, HINGES AND ALL FASTENERS NECESSARY FOR INSTALLATION.
 B. CONTINUOUS WALL BRACKETS SHALL BE SECURED TO SOLID WOOD BLOCKING IN WALLS.
 C. PILASTER SHOES TO BE TYPE 304 STAINLESS STEEL.
 D. ALL FASTENERS CHROME PLATED OR STAINLESS STEEL.
 E. HEAD RAIL TO BRACE ALL COMPARTMENTS AND BRACE END OF FREE-STANDING COMPARTMENTS TO WALL. TOP RAIL TO BE ANODIZED ALUM. SATIN FINISH W/ ANTI-GRIP TOP PROFILE.
 FINISH
 ALL FACE AND EDGE SURFACES TO BE INTERGAL COLOR POLYMER. PROVIDE STL. BOT. PROTECTION EDGE, TYP.
 COLOR
 COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR SELECTION.
 2. SUBMIT PARTITION SHOP DRAWINGS, COLOR SELECTIONS AND PRODUCT INFORMATION FOR REVIEW.
 3. PROVIDE SOLID WOOD BLOCKING IN FRAME WALLS FOR ALL COMPARTMENT FASTENERS.
- BUILT-IN SHELF NOTES**
1. WHERE UTILITY TYPE SHELVES ARE INDICATED IN CLOSETS, AND JANITOR CLOSET BY A DASHED LINE, PROVIDE 2" THICKNESS A/B PTD. PLYWOOD SHELVES MIN 12" WIDE. INSTALL SHELVES ON HEAVY-DUTY ADJUSTABLE SHELF STANDARDS AND SNAP-IN PLACE BRACKETS OF THE PROPER WIDTH. U.N.O. PROVIDE (1) SHELF AND 24" LONG SHELF STANDARD BRACKETS @ 24" OC. PROVIDE BRACKETS @ 24" OC MAX.



SEE LAVATORY CLEARANCE MOUNTING HEIGHTS THIS SHEET.
TYP. DROP-IN LAV DETAIL
SCALE: 1" = 1'-0"



FOR CONSTRUCTION

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NOVUM BAPTIST CHURCH
SANCTUARY ADDITION
1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735

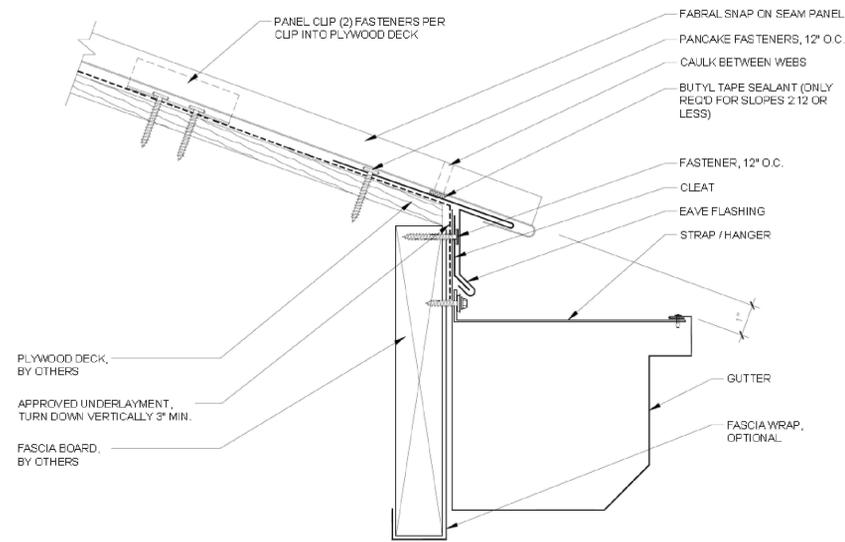


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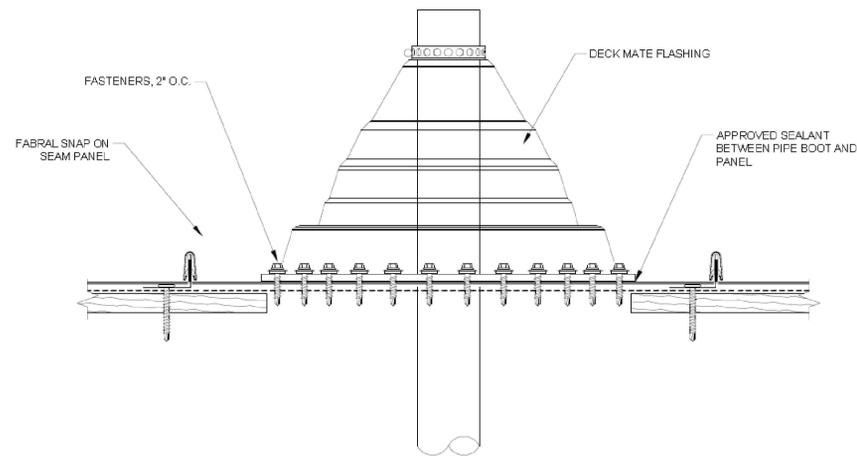
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ENLARGED PLAN & DETAILS

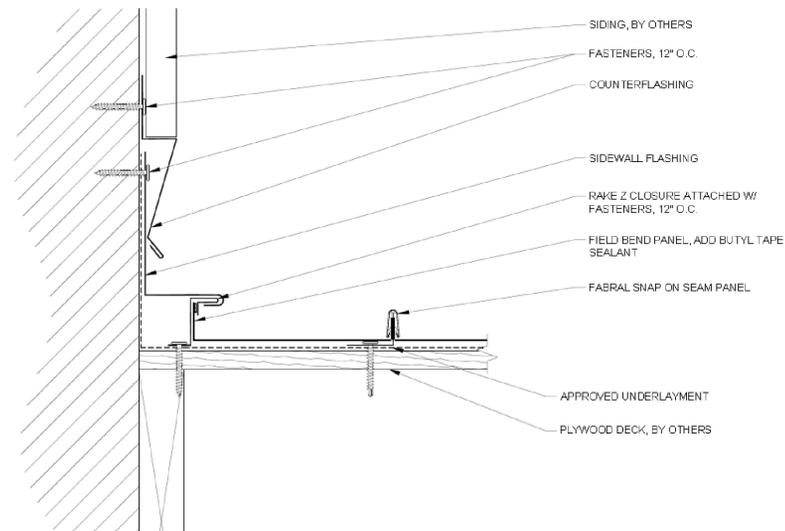
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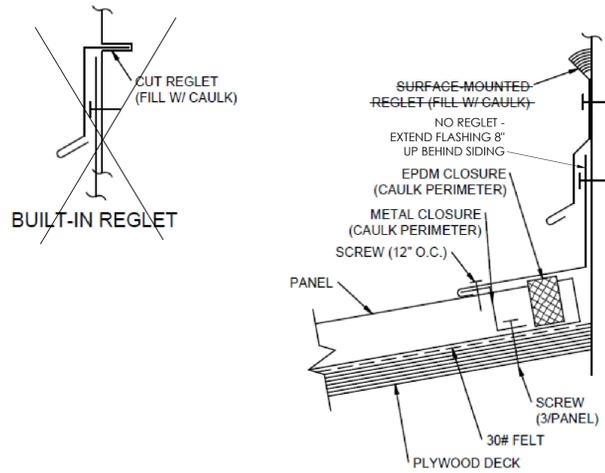
TYPICAL GUTTER EAVE DETAIL (EG-1)
SCALE: NONE



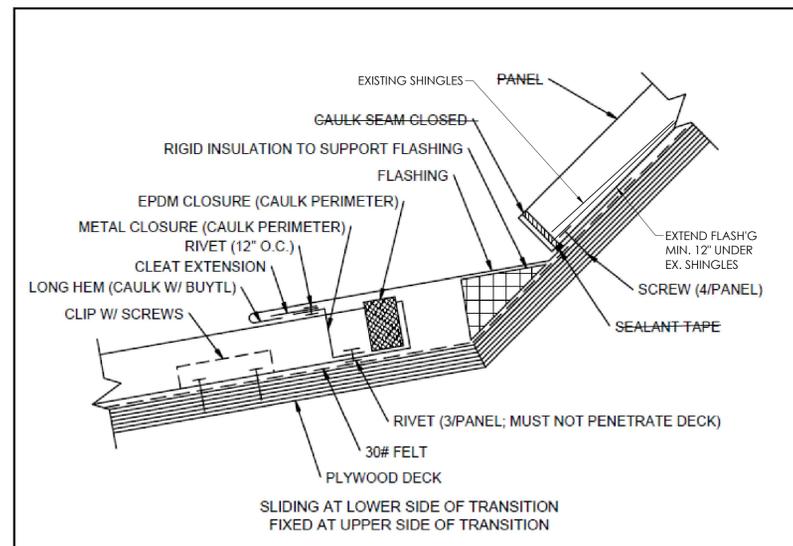
PENETRATION DETAIL (P-1)
SCALE: NONE



SIDEWALL DETAIL (SW-3)
SCALE: NONE



END WALL DETAIL (SIMILAR)
SCALE: NONE



PITCH BREAK DETAIL (SIMILAR)
SCALE: NONE

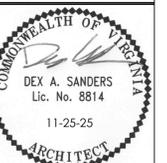
DETAIL NOTE:
DETAILS DEPICTED THIS SHEET ARE BASED ON FABRAL SNAP-ON SEAM ROOFING AND ARE INTENDED TO SHOW ROOFING SPECIFIC DETAILS ONLY. ROOFING INSTALLER SHALL PROVIDE DETAILS AND MATERIALS NECESSARY AND RECOMMENDED BY THE APPROVED ROOFING MANUFACTURER TO PROVIDE THE INDICATED ROOFING WARRANTY.



FOR CONSTRUCTION



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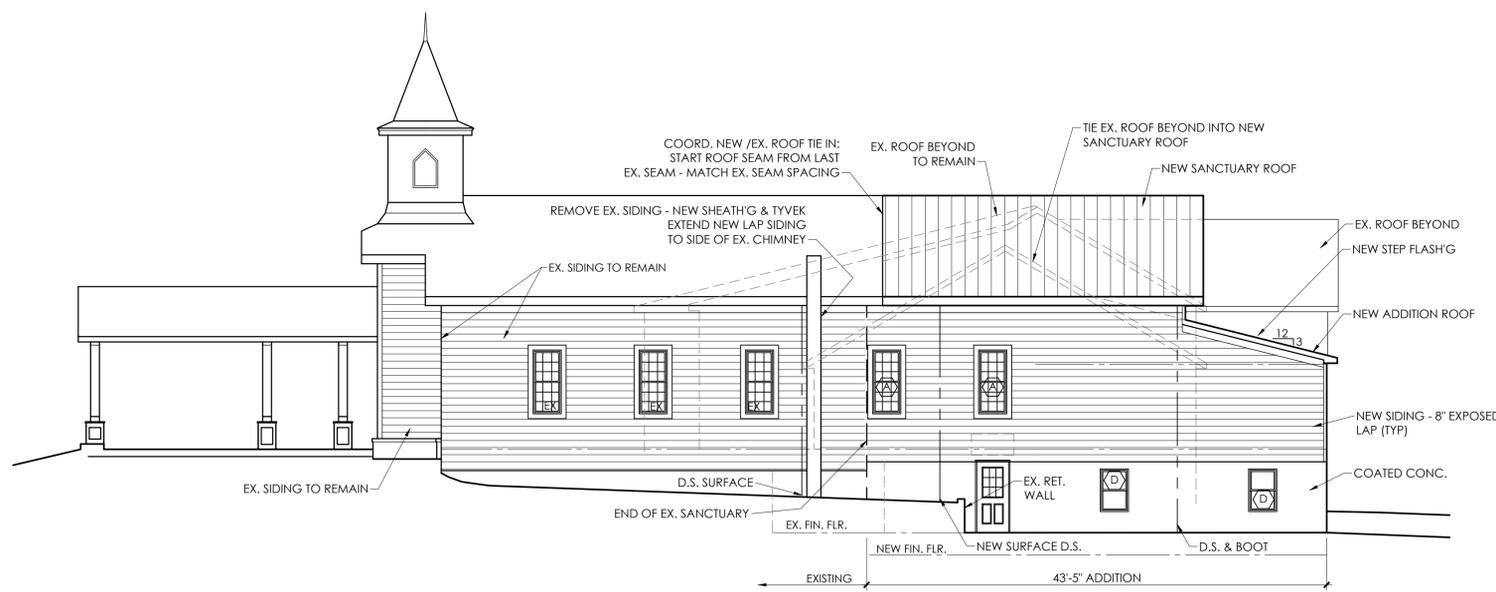
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PROJECT #:	2418

ROOF DETAILS

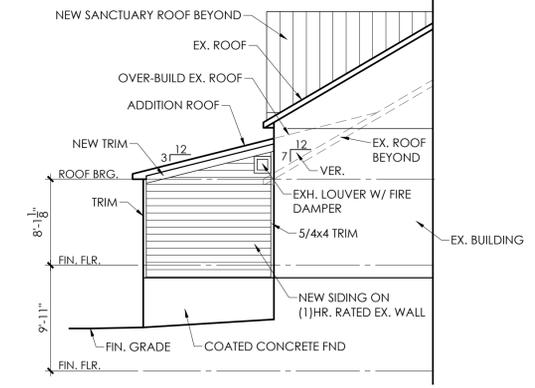
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FOR CONSTRUCTION



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

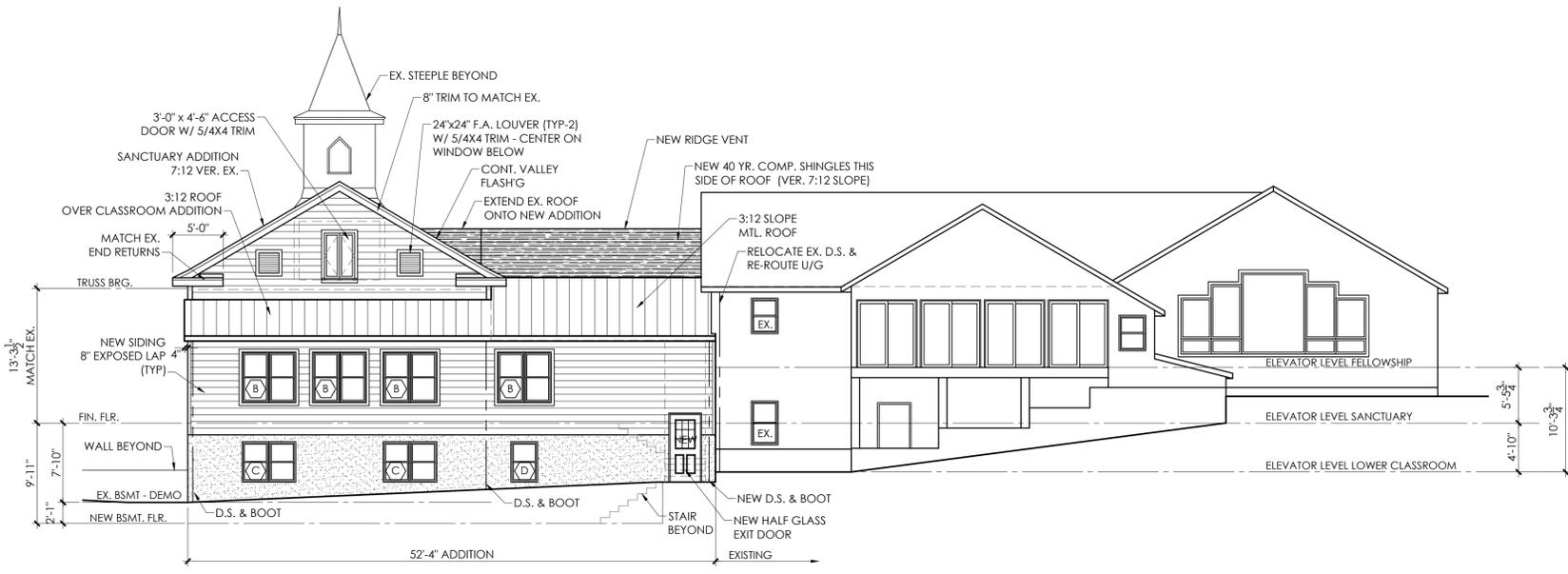


SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

BUILDING ROOF DRAINAGE

1. PROVIDE CONTINUOUS GUTTERS AROUND PERIMETER OF ADDITION ROOF EAVES. GUTTERS TO BE OGEE TYPE TO MATCH EXISTING SIZE OR NOM. 7" PROFILE PRE-FINISHED ALUM. HEAVY DUTY, 0.032 AT LOWER ADDITION. INSTALL GUTTERS SEAMLESS IN LENGTHS AS LONG AS PRACTICABLE. PROVIDE EXPANSION SLIP JOINTS TO PROVIDE FOR MOVEMENT WHERE NECESSARY. ATTACH GUTTERS W/ HEAVY-DUTY STRAP TYPE ANCHORS FASTENED SECURELY TO THE ROOF STRUCTURE @ 24" OC MAX. SET GUTTER ELEVATION FOR ROOF SLOPE SO HEAVY RAIN DOES NOT RUN OVER GUTTER.
2. PROVIDE PRE-FINISHED ALUM. DOWNSPOUTS IN NOMINAL 5" RECTANGULAR PROFILE (5" x 3" MIN.). PROVIDE ALL JOINTS, SEAMS AND STRAPS NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE WHITE PVC BOOTS FOR TRANSITION INTO UNDERGROUND DRAINAGE PIPING & CAST CONC. SPLASH BLOCKS FOR SURFACE DRAINAGE.
3. PROVIDE MISC. ROOF WATER DIVERTERS AS REQUIRED TO CHANNEL WATER TO GUTTERS AND TO DIRECT WATER IN A CONTROLLED MANNER. D.S., GUTTER & MISC. PARTS COLOR TO BE SELECTED BY OWNER.
4. PROVIDE COMPLETE UNDERGROUND PIPING (EXCEPT WHERE SURFACE DRAINAGE IS INDICATED) TO CHANNEL WATER AWAY FROM THE BUILDING AND ENTRANCES TO DAYLIGHT. PROVIDE 4" STONE BED BELOW OUTFALL TO LIMIT EROSION. VERIFY PROPOSED EXIT LOCATION WITH ARCHITECT. RE-ROUTING EXISTING UNDERGROUND DOWNSPOUT PIPING WHERE DISTURBED BY CONSTRUCTION IS A PART OF THIS WORK.

DO NOT TIE ROOF DRAINAGE INTO FOUNDATION DRAINS.



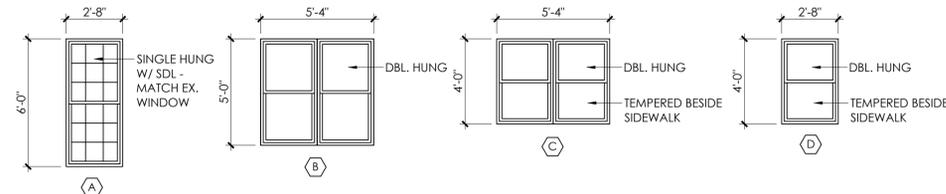
WEST ELEVATION
SCALE: 1/8" = 1'-0"



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

WINDOW NOTES AND SPECIFICATIONS

1. WINDOWS IN FRAME WALLS TO BE EQUAL TO PRE-FINISHED VINYL, CLAD OR FIBERGLASS UNITS WITH PRE-FINISHED EXTERIOR AND PAINTED WOOD OR PRE-FINISHED INTERIOR W/ FULL INSECT SCREENS ON ALL OPERABLE UNITS. SCREEN MESH TO BE CHARCOAL FIBERGLASS. PROVIDE JAMB EXTENSIONS TO MATCH FRAME WALL THICKNESS FOR INTERIOR CASING APPLICATION. PROVIDE BRICK MOLD TRIM AT CONCRETE WALLS TO COVER PRESSURE TREATED BLOCKING.
- GLASS - LOW E WITH ARGON, LAMINATED, TEMPERED. GRAY TINT, MAX U VALUE = .28, MAX SHGC = .30
2. FURNISH ALL NAILING FINIS, HARDWARE AND CLIPS NECESSARY FOR ATTACHMENT AT FRAME AND MASONRY CONDITIONS.
3. ALL WINDOWS TO BE FLASHED / TAPED AT HEAD AND SILL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE CONTINUOUS SEALANT & INSUL. AROUND ALL WINDOWS.
4. SUBMIT PRODUCT DATA FOR REVIEW TO CONFIRM HARDWARE COLOR AND PROPOSED ATTACHMENT METHOD.
5. PROVIDE PARTIAL OPENING SAFETY LOCKS ON WINDOWS WHERE SILL HEIGHT IS MORE THAN 30" ABOVE OUTSIDE GRADE OR OTHER METHOD SATISFACTORY TO OWNER TO LIMIT WINDOW OPERATION.
7. ACCEPTABLE ALTERNATE MANUFACTURERS MAY BE CONSIDERED INCLUDING ANDERSEN 400 SERIES, MARVIN, PELLA OR WEATHERSHIELD. SUBMIT PROPOSED ALTERNATES WITH PERFORMANCE DATA FOR REVIEW.
8. VERIFY UNIT MFG. R.O. BEFORE FRAMING. DUE TO DIFFERENCES IN MANUFACTURER'S STANDARD WINDOW UNIT SIZES, CONTRACTOR MUST COORDINATE EXACT ROUGH OPENING AND MASONRY OPENING WITH ACTUAL WINDOW TO BE INSTALLED.



EXTERIOR WINDOW TYPES
SCALE: 1/4" = 1'-0"

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**NOVUM BAPTIST CHURCH
SANCTUARY ADDITION**
1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735

COMMONWEALTH OF VIRGINIA
DEX A. SANDERS
Lic. No. 8814
11-25-25
ARCHITECT

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EXTERIOR ELEVATIONS

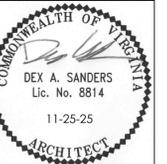


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1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735

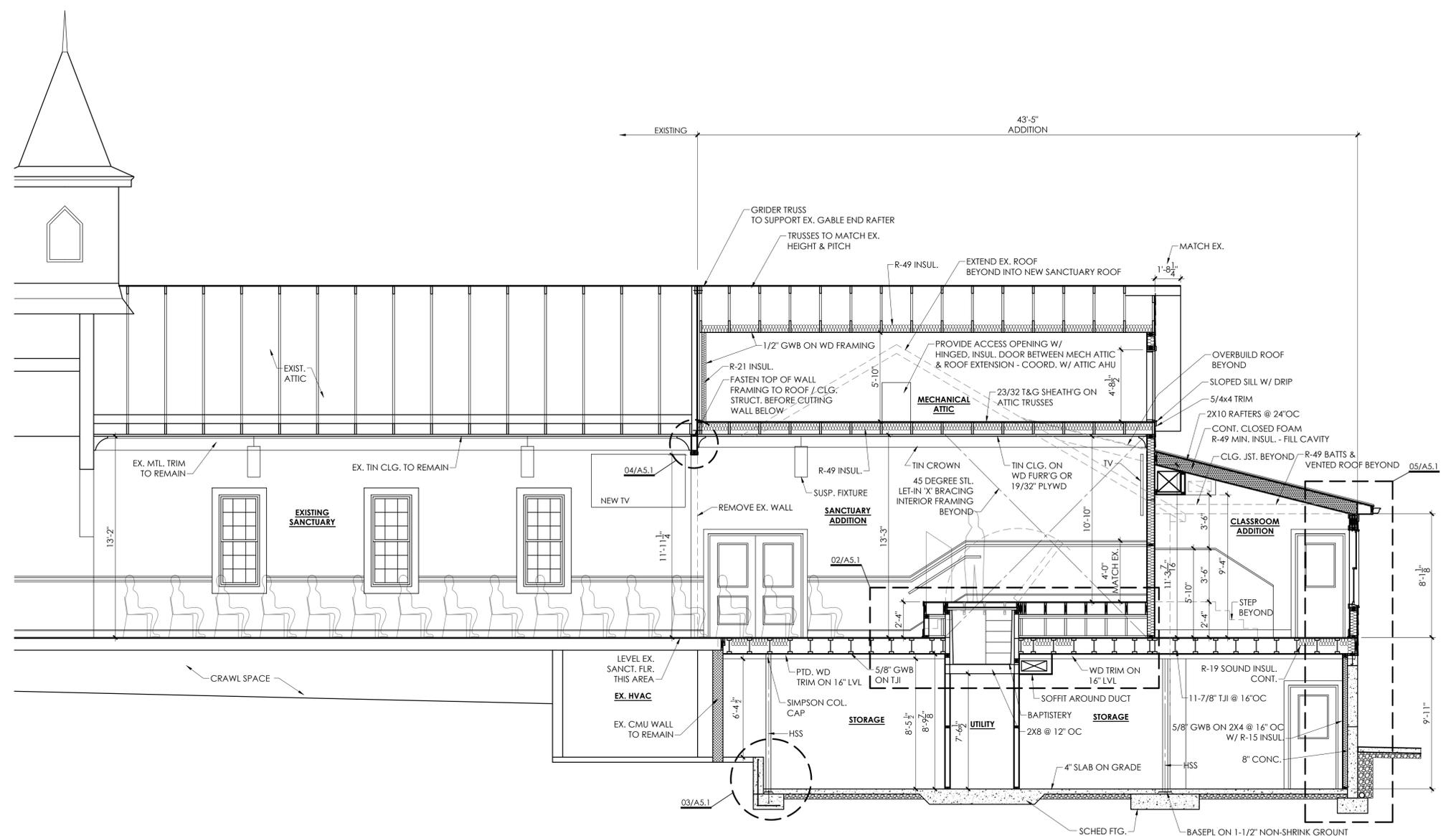


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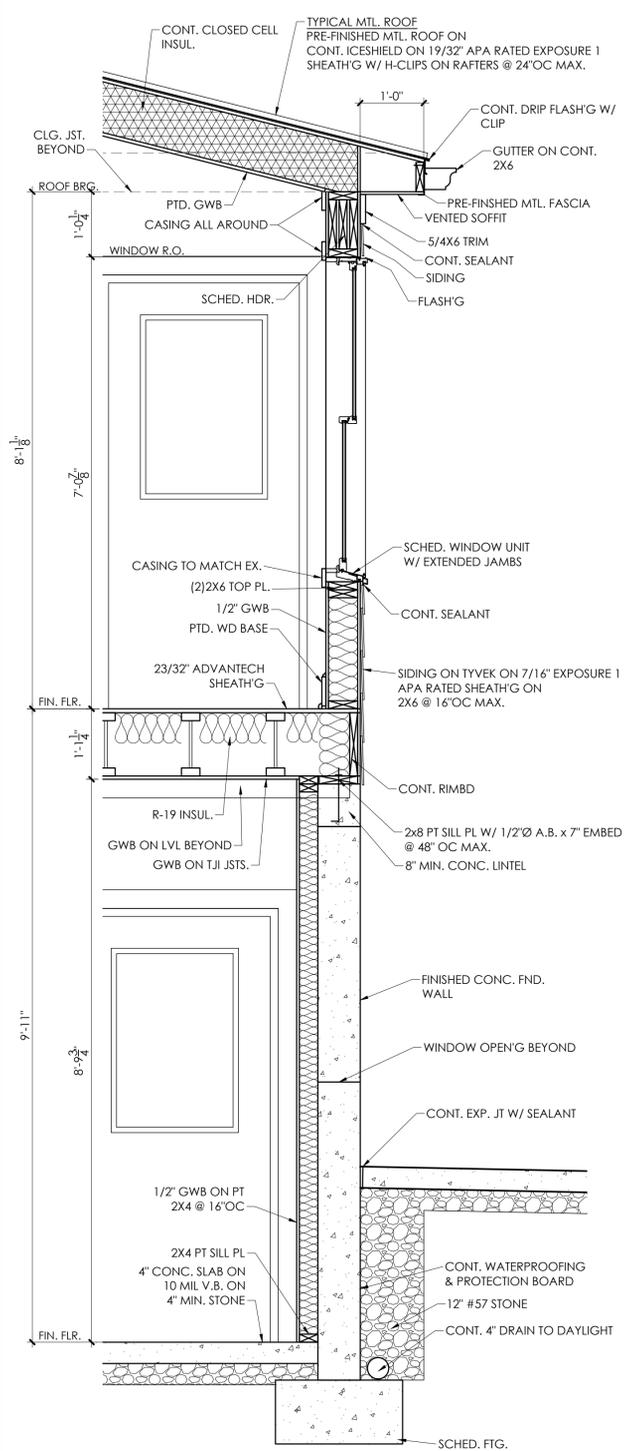
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SCALE: 11-25-25
DATE: 11-25-25
PROJECT #: 2418

BUILDING SECTIONS & DETAILS

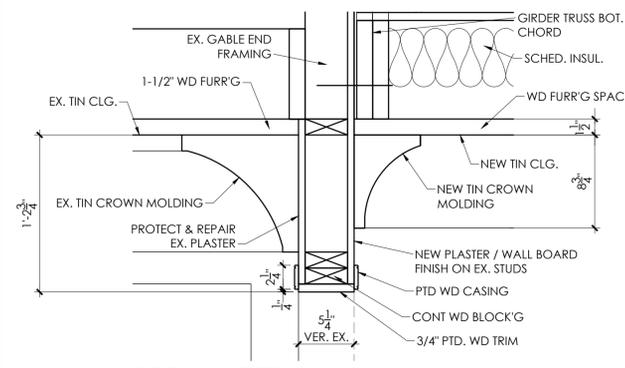
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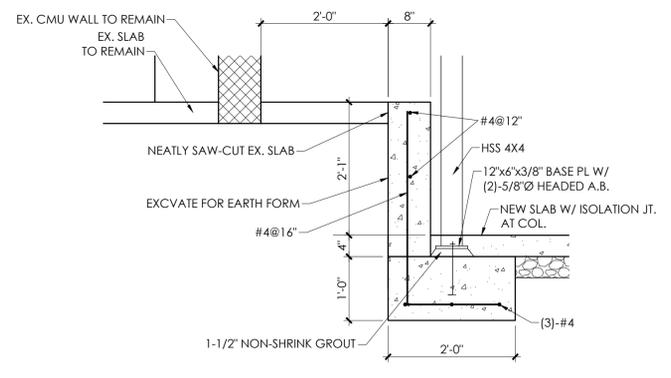
01 BUILDING SECTION
SCALE: 1/4" = 1'-0"



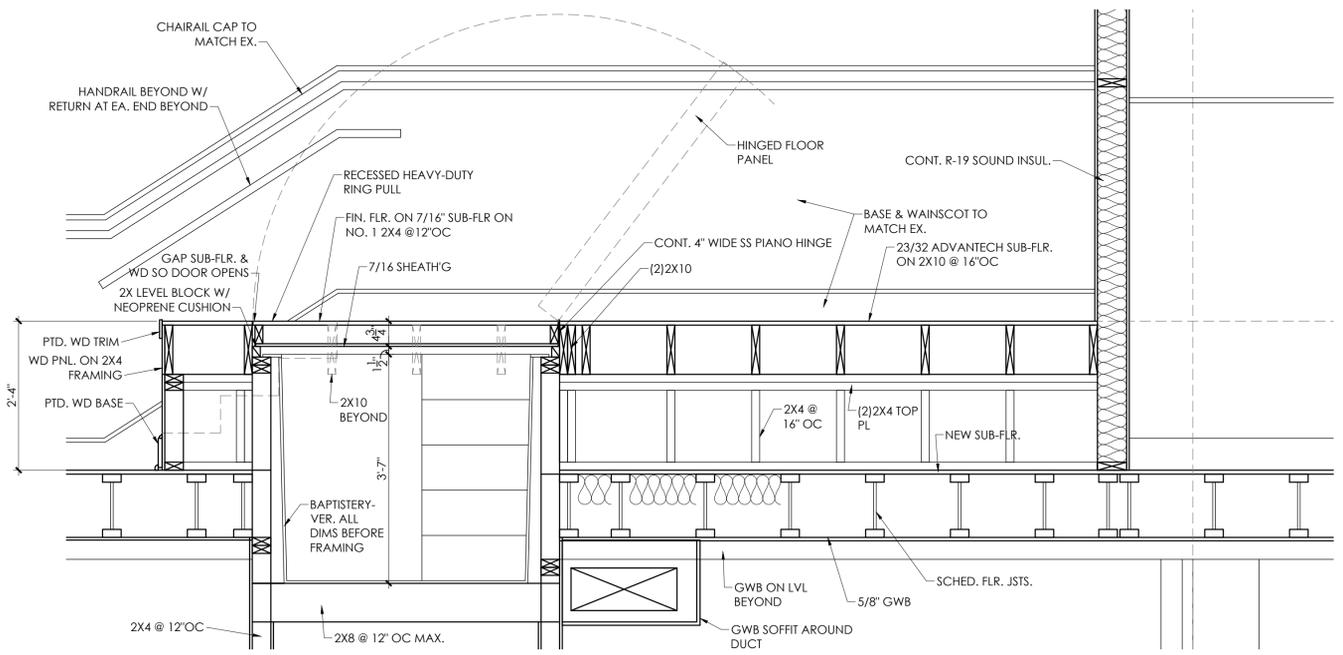
05 WALL SECTION
SCALE: 3/4" = 1'-0"



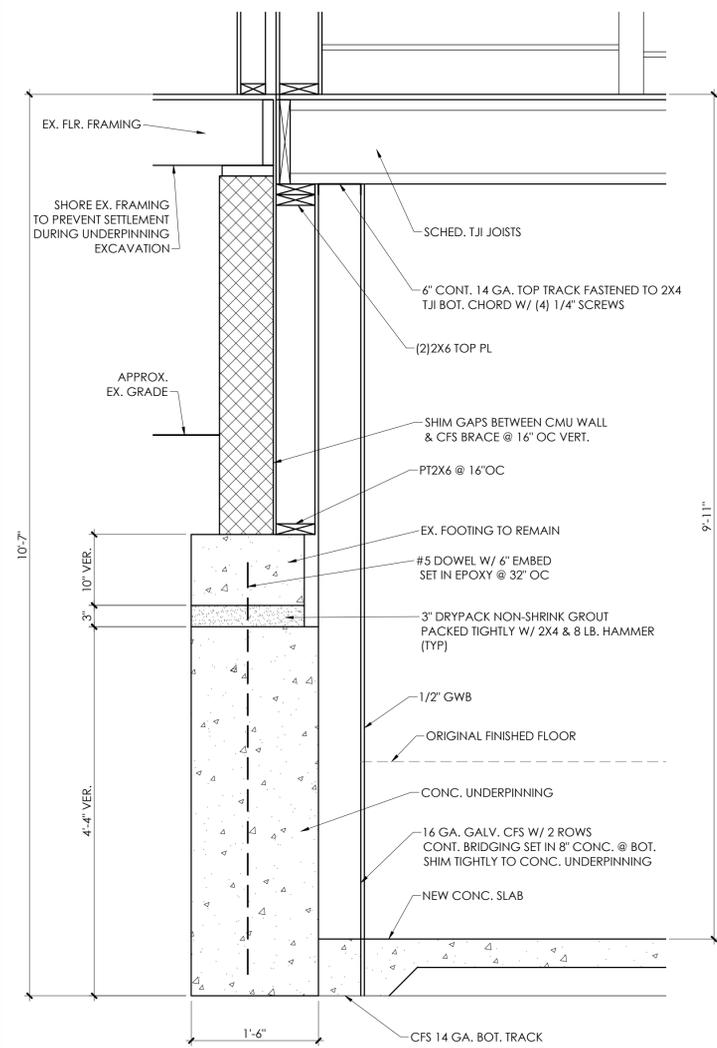
04 OPENING DETAIL
SCALE: 1-1/2" = 1'-0"



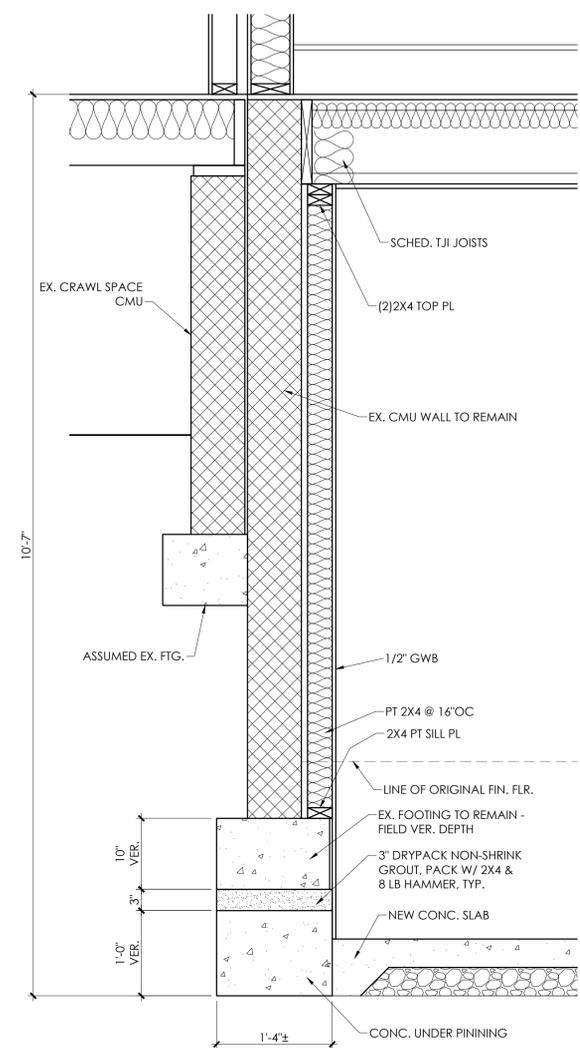
03 RETAINING WALL SECTION
SCALE: 3/4" = 1'-0"



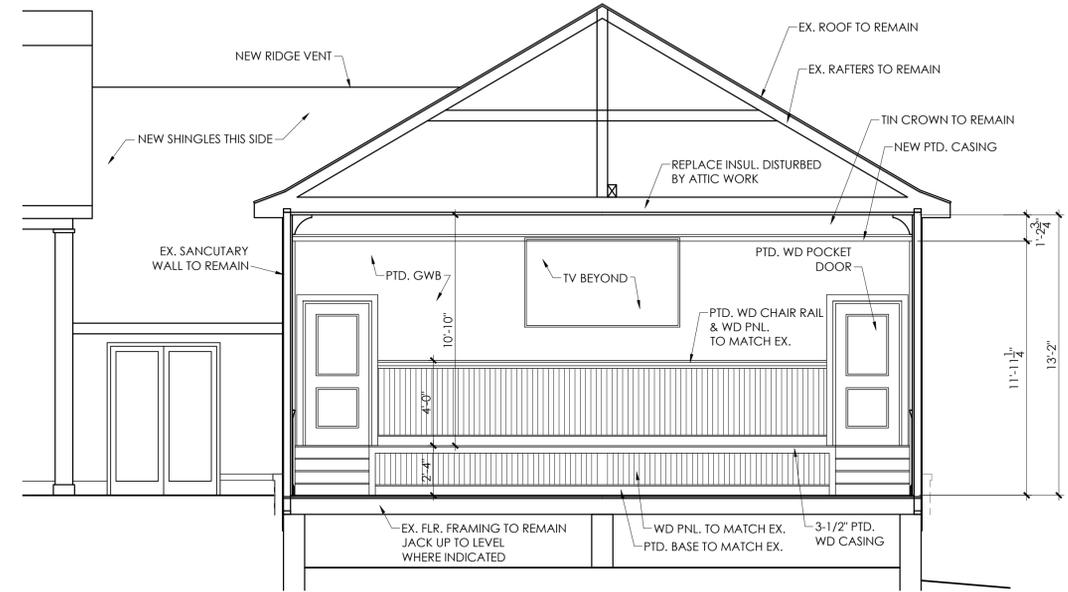
02 PLATFORM SECTION
SCALE: 3/4" = 1'-0"



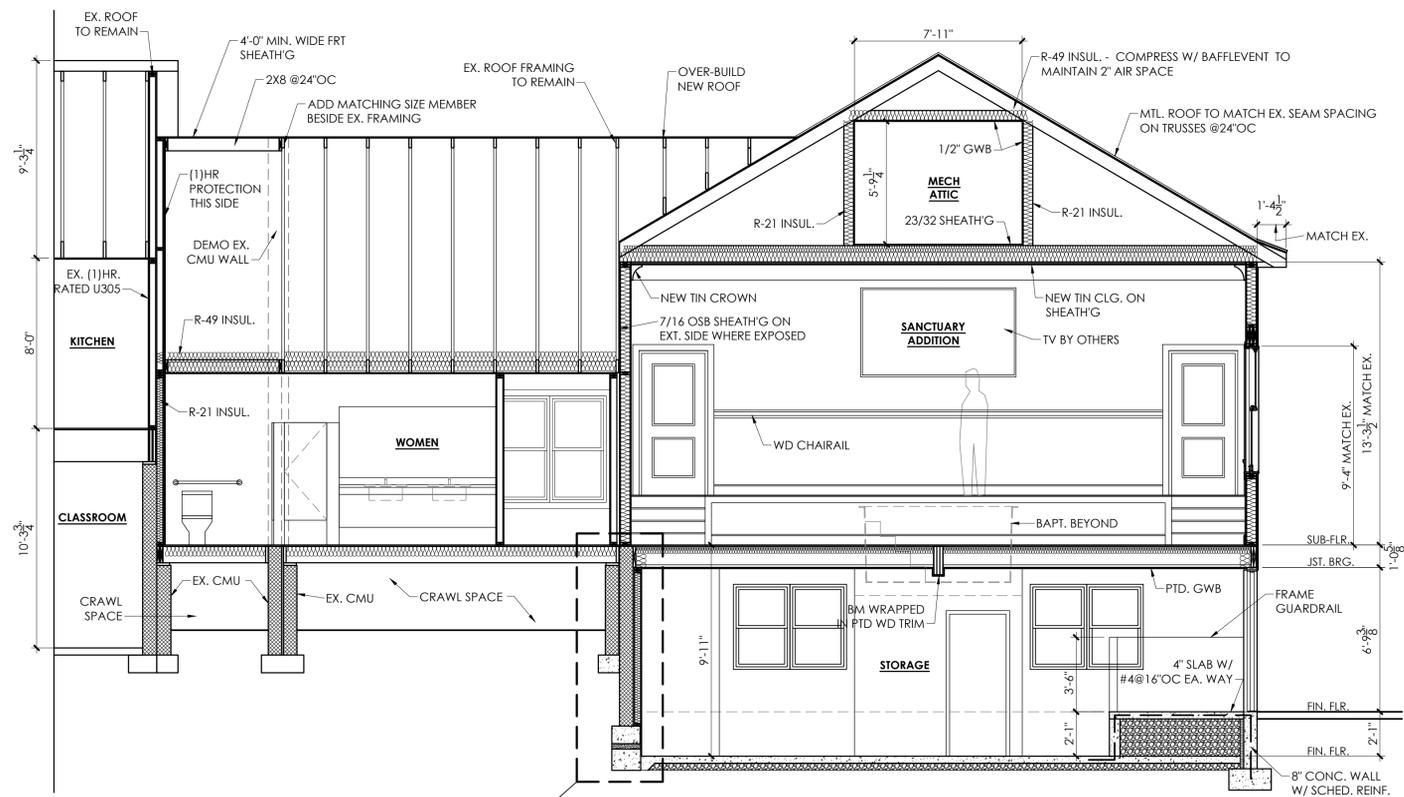
04 SECTION DETAIL - UNDER PINNING
SCALE: 1" = 1'-0"



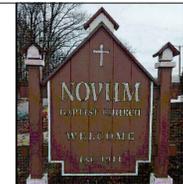
03 SECTION DETAIL - UNDER PINNING
SCALE: 1" = 1'-0"



01 BUILDING SECTION
SCALE: 1/4" = 1'-0"



02 BUILDING SECTION
SCALE: 1/4" = 1'-0"

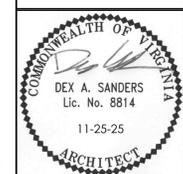


FOR CONSTRUCTION



SANDERS ARCHITECTURE PC
16125 RACCOON FORD RD
CULPEPER, VIRGINIA 22701
(540)829-2590

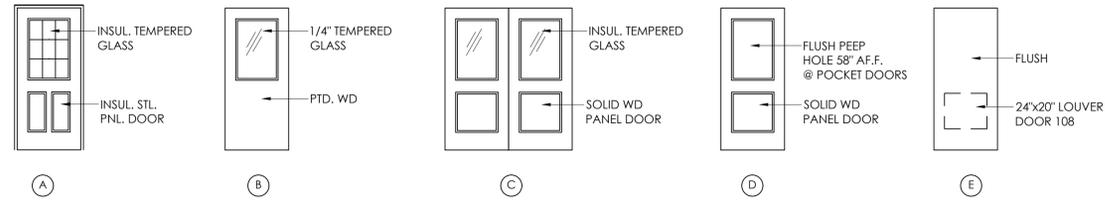
**NOVUM BAPTIST CHURCH
SANCTUARY ADDITION**
1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735



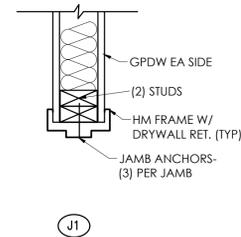
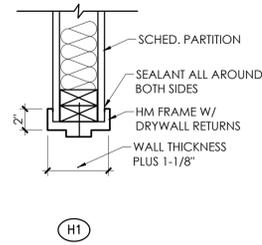
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PROJECT #: 2418

BUILDING SECTIONS & DETAILS



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



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

DOOR NO.	DOOR					FRAME				REMARKS		
	SIZE W X H X T	MATL	FIN	TYPE	LOUVER	MATL	FIN	DETAIL HEAD / JAMB	U. L. LABEL		HOW SET	
EXTERIOR DOORS												
EX-1	EXISTING TO REMAIN											
EX-2	EXISTING TO REMAIN											
EX-3	3'-0"x6'-8"x1-3/4"	HM	PTD	A	-	HM	PTD	H1/J1 SIM.	ALUM.	-	-	PANIC EXIT, LEVER LOCKSET, CLOSER (FRAME FLUSH W/ EXT. WALL)
EX-4	3'-0"x6'-8"x1-3/4"	HM	PTD	A	-	HM	PTD	H1/J1 SIM.	ALUM.	-	-	PANIC EXIT, LEVER LOCKSET, CLOSER
EX-5	EXISTING TO REMAIN											
INTERIOR DOORS												
B-01	3'-0"x6'-8"x1-3/4"	WD	PTD.	B	-	WD	PTD	WOOD JAMB	-	-	-	PANIC EXIT, PASSAGE LATCHSET, CLOSER, KICKPLATE
B-02	2'-8"x6'-8"x1-3/4"	WD	PTD.	E	3/4" U/C	WD	PTD	WOOD JAMB	-	-	-	LEVER PASSAGE LATCHSET, NO CLOSER
B-03	3'-0"x6'-8"x1-3/4"	HM	PTD.	E	-	HM	PTD	H1/J1	-	60 MIN.	-	NEW DOOR AS REQUIRED FOR ELEVATOR RETRO-FIT (ALT. #1)
B-04	3'-0"x6'-8"x1-3/4"	WD	PTD.	E	-	WD	PTD	WOOD JAMB	-	-	-	LEVER PASSAGE LATCHSET, NO CLOSER
101	PR. 3'-0"x6'-8"x1-3/4"	WD	PTD.	C	-	WD	PTD	WOOD JAMB	-	-	-	PUSH / PULL, CLOSER W/ 180 DEGREE SWING, 10" KICKPL EA SIDE
102	3'-0"x6'-8"x1-3/4"	WD	PTD	D	-	WD	PTD	POCKET DOOR	-	-	-	POCKET DOOR LATCH, COMMERCIAL STL. TRACK, PEEP HOLE
103	3'-0"x6'-8"x1-3/4"	WD	PTD	D	-	WD	PTD	POCKET DOOR	-	-	-	POCKET DOOR LATCH, COMMERCIAL STL. TRACK, PEEP HOLE
104	3'-0"x6'-8"x1-3/4"	WD	PTD	B	-	WD	PTD	WOOD JAMB	-	-	-	PASSAGE LATCHSET, NO CLOSER, KICKPL
105	PR. 3'-0"x6'-8"x1-3/4"	WD	PTD	E	3/4" U/C	WD	PTD	WOOD JAMB	-	-	-	FRICITION LATCH, NO CLOSER
106	3'-0"x6'-8"x1-3/4"	WD	PTD	E	-	WD	PTD	WOOD JAMB	-	-	-	PASSAGE LATCHSET, CLOSER, KICK PL
107	3'-0"x6'-8"x1-3/4"	WD	PTD	E	-	WD	PTD	WOOD JAMB	-	-	-	PASSAGE LATCHSET, CLOSER, KICK PL
108	3'-0"x6'-8"x1-3/4"	WD	PTD	E	24"x20"	WD	PTD	WOOD JAMB	-	-	-	PASSAGE LATCHSET
109	3'-0"x6'-8"x1-3/4"	HM	PTD.	E	-	HM	PTD	H1/J1	-	60 MIN.	-	NEW DOOR AS REQUIRED FOR ELEVATOR RETRO-FIT (ALT. #1)
110	3'-0"x6'-8"x1-3/4"	HM	PTD.	E	-	HM	PTD	H1/J1	-	60 MIN.	-	NEW DOOR AS REQUIRED FOR ELEVATOR RETRO-FIT (ALT. #1)

HARDWARE NOTES / TYPES

GENERAL NOTES:

1. U.N.O. ALL HINGED DOORS TO HAVE SURFACE MOUNTED CLOSERS. PROVIDE CLOSERS WITH HOLD OPEN FEATURES AT NON-RATED STORAGE DOORS.
2. ALL INTERIOR HARDWARE BRUSHED NICKEL OR SATIN STAINLESS FINISH UNLESS MATCHING AN EXISTING ROOM.
3. ALL LATCH SETS AND HANDLES TO BE MATCHING LEVER STYLE W/ FULL RETURN. MATCH NEW FELLOWSHIP HALL HARDWARE.
4. ALL INTERIOR DOORS TO HAVE MINIMUM GRADE 2 COMMERCIAL HARDWARE UNLESS OTHERWISE NOTED. MATCH NEW FELLOWSHIP HALL HARDWARE.
5. PROVIDE 10" KICKPLATES AT TOILET & OTHER DOORS WHERE INDICATED.
6. EXTERIOR DOORS TO HAVE WEATHERSTRIPPING ALL AROUND W/ SILL SWEEPS. PROVIDE SILL SWEEPS WITH DRIPS AT OUTSWINGING STEEL DOORS WITHOUT OVERHANGS.
7. INSTALL ALL LOCKSETS AS SCHEDULED. KEY ALL EXTERIOR DOORS THE SAME. KEY ALL INTERIOR UTILITY DOORS ALIKE. KEY ALL DOORS TO A MASTER & GRANDMASTER KEY SYSTEM. COORDINATE W/ OWNER'S EXISTING KEY SYSTEM.
8. PROVIDE COMMERCIAL BRUSHED STAINLESS STEEL DOOR STOPS AT ALL DOORS - FLOOR MOUNTED WHERE POSSIBLE OR WALL MOUNTED W/ FULL BLOCKING.

DOOR NOTES

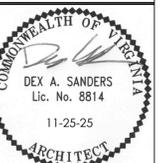
1. ALL DOORS UP TO 7'-0" TALL TO HAVE 1 -1/2" PAIR HINGES. DOORS OVER 7'-0" TALL TO HAVE 2 PAIR HINGES. PROVIDE (2) PAIR HINGES FOR 4'-0" WIDE DOORS.
2. UNDERCUT DOORS AS REQUIRED FOR EASE OF OPERATION. ALL DOORS SHALL HANG 1/8" ABOVE FINISHED FLOOR/THRESHOLD EXCEPT DOORS SCHEDULED TO BE UNDERCUT OR SPECIAL ACOUSTIC DOORS.
3. WOOD DOORS: ALL DOORS TO BE REINFORCED FOR CLOSERS. PROVIDE MATCHING WOOD TRIM AT LITES. INTERIOR GLASS TO BE 1/2" - SAFETY AND / OR FIRE RATED WHERE REQUIRED
4. PROVIDE (3) SILENCERS TYP. AT EACH INTERIOR DOOR AT HOLLOW METAL FRAMES ON THE LATCHING SIDE.



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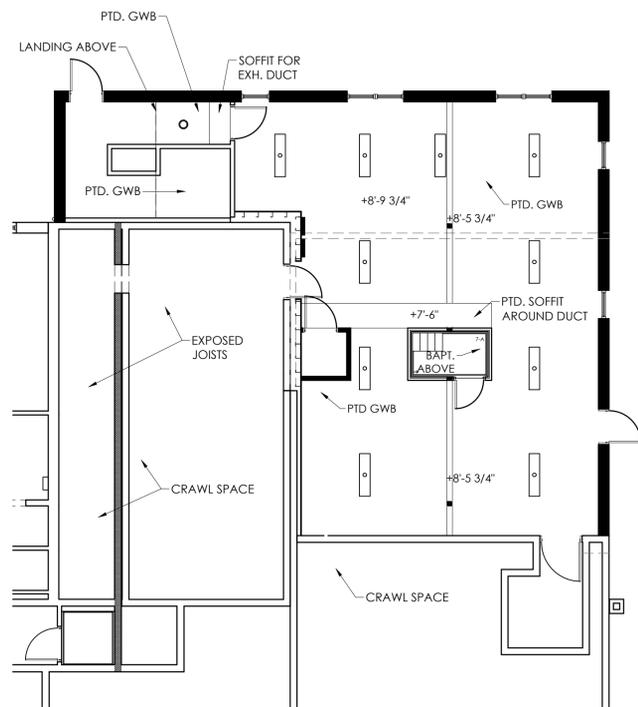
NOVUM BAPTIST CHURCH
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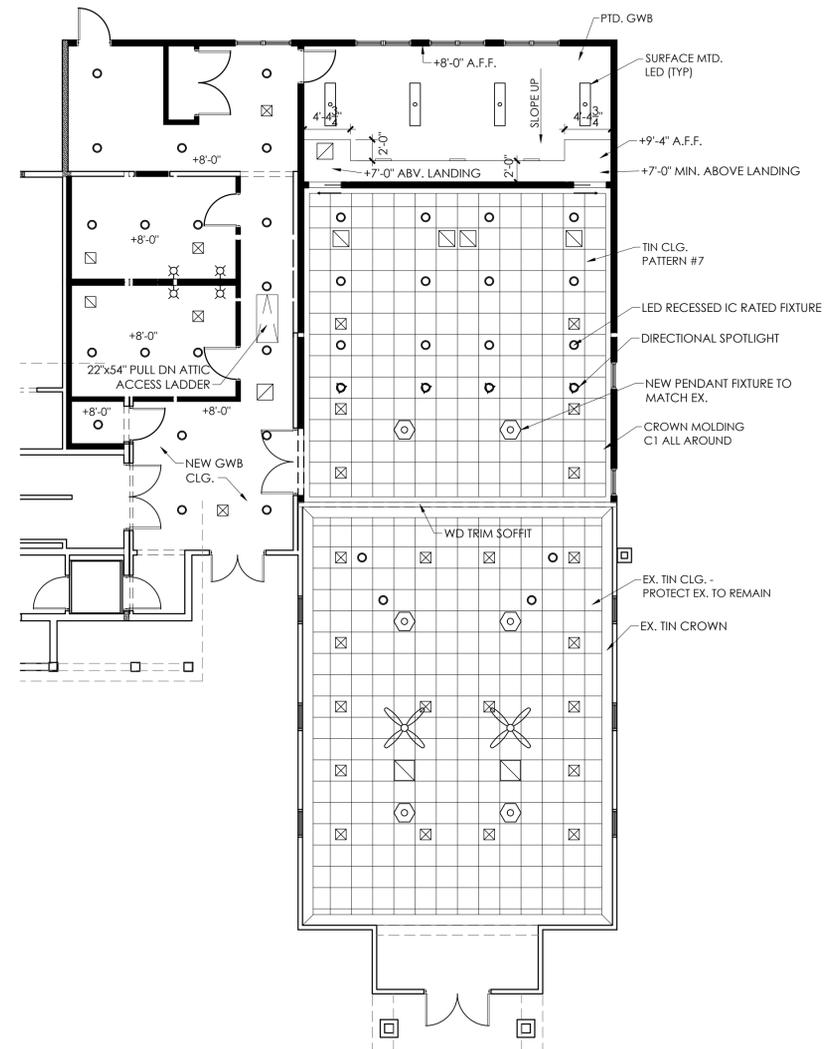
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DOOR SCHEDULE

A8.1



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



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

NOTE: COORDINATE ATTIC ACCESS OPENINGS WITH HVAC EQUIPMENT MOUNTED IN ATTIC



SANCTUARY TIN NEW PANEL



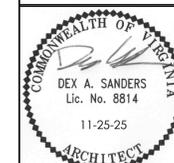
SANCTUARY TIN NEW CROWN



FOR CONSTRUCTION



**NOVUM BAPTIST CHURCH
SANCTUARY ADDITION**
1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735



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CEILING
PLANS

A10.1

HVAC SPECIFICATIONS

1. GENERAL

1.1 DESCRIPTION OF WORK:

- A. ALL FIXTURES, EQUIPMENT, ACCESSORIES, MATERIALS, AND LABOR REQUIRED TO PROVIDE COMPLETE, COORDINATED, AND FULLY FUNCTIONAL HVAC SYSTEMS GENERALLY AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
 1. HEATING SYSTEM
 2. COOLING SYSTEM
 3. VENTILATION SYSTEM
 4. EXHAUST SYSTEMS

1.2 RELATED DOCUMENTS:

- A. THE REQUIREMENTS OF THE CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS SHALL APPLY TO AND BE CONSIDERED A PART OF THE HVAC WORK IN-SO-FAR AS THEY APPLY TO THE HVAC WORK AND ARE REQUIRED FOR COORDINATION.

1.3 JOB CONDITIONS:

- A. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF THE PROJECT.
- B. PROVIDE FITTINGS, OFFSETS, TRANSITIONS, CONTROL TRANSFORMERS AND ACCESSORIES REQUIRED TO MEET CONDITIONS OF THE PROJECT.
- C. PROVIDE SERVICE ACCESS FOR EQUIPMENT, CONTROL COMPONENTS, VALVES, FILTERS AND SPECIALTIES.
- D. PROVIDE ACCESS PANELS FOR VALVES, ACCESS DOORS, ETC. CONCEALED BEHIND FINISHED SURFACES.
- E. MODIFY DUCT DIMENSIONS AS REQUIRED BY BUILDING STRUCTURE OR OTHER WORK AT NO ADDITIONAL COSTS TO THE OWNER. MAINTAIN EQUIVALENT FREE AREA SIZES.

1.4 CONFORMANCE TO REGULATIONS:

- A. WORK SHALL CONFORM WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE, NFPA, AND LOCAL ORDINANCES.

1.5 QUALITY ASSURANCE:

- A. COMPLY WITH MANUFACTURER'S REQUIREMENTS AND NOTES AND DETAILS SHOWN HEREIN FOR INSTALLATION OF EQUIPMENT.
- B. COMPLY WITH RECOMMENDATIONS OF SMACNA AND ASHRAE.

1.6 MATERIALS AND EQUIPMENT:

- A. EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE EQUIVALENT TO PRODUCTS SPECIFIED.
- B. CONTRACTOR SHALL GUARANTEE EQUIVALENCE AND IS RESPONSIBLE FOR MODIFICATIONS REQUIRED AND COORDINATION WITH OTHER TRADES TO FIT SUBSTITUTED PRODUCT INTO THE PROJECT.
- C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A SINGLE MANUFACTURER.
- D. PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.
- E. IF HVAC EQUIPMENT IS OPERATED DURING CONSTRUCTION, PROVIDE TEMPORARY FILTERS TO PROTECT AIR HANDLING EQUIPMENT.

1.7 SUBMITTALS:

- A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR EQUIPMENT SPECIFIED HEREIN AND ON THE DRAWINGS. SHOP DRAWINGS AND PRODUCT DATA SHALL BE IDENTIFIED PER INDICATIONS ON DRAWINGS, SHALL BE MARKED TO INDICATED SPECIFIC ITEM BE PROPOSED, AND SHALL BE ORGANIZED IN AN ORDERLY MANNER. SUBMIT IN .PDF FORMAT VIA EMAIL.
- B. SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT INSTALLED IN THIS PROJECT. INCLUDE COPIES OF SPECIFIC EQUIPMENT WARRANTIES IN MANUAL.
- C. UPON COMPLETION OF THE INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE OWNER, CONTRACTOR SHALL FURNISH TWO COPIES OF AS-BUILT DOCUMENTATION. ALL CHANGES TO THE BIDDING DOCUMENTS SHALL BE NEATLY AND CLEARLY IDENTIFIED ON THE AS-BUILT DOCUMENTATION.

1.8 PROJECT CLOSEOUT:

- A. REPLACE OR REPAIR DAMAGED EQUIPMENT AND CLEAN ALL EXPOSED SURFACES.
- B. TOUCH-UP SHOP APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS.
- C. INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF EQUIPMENT UTILIZING OPERATION AND MAINTENANCE MANUAL. MINIMUM INSTRUCTION PERIOD SHALL BE TWO HOURS.
- D. REPLACE FILTERS IN AIR HANDLING EQUIPMENT AT TIME OF PROJECT TURNOVER TO OWNER.
- E. VACUUM INTERIORS OF DUCTWORK AND EQUIPMENT WHICH BECOMES DIRTY, PRIOR TO PROJECT TURNOVER TO OWNER. CLEAN ANY DIRTY EQUIPMENT COILS.

2. PRODUCTS

2.1 PIPING SYSTEMS:

- A. CONDENSATE DRAIN - SCH. 40 PVC WITH SOLVENT WELD FITTINGS
- B. REFRIGERANT - TYPE C&C OR ARC COPPER, SILVER SOLDER FITTINGS.

2.2 HVAC EQUIPMENT:

- A. REFER TO SCHEDULE SHEETS AND EQUIPMENT LIST FOR MANUFACTURERS AND MODEL NUMBERS.
- B. ALTERNATE MANUFACTURER'S ARE: LENNOX, YORK, MCQUAY, TITUS, CARRIER, SANYO, MITSUBISHI, TRANE, COOK, CARNES, TWIN CITY, ACME, METALAIRE
- C. PROVIDE MINIMUM MERV 8 RETURN AIR FILTERS FOR AIR HANDLING EQUIPMENT.

2.3 AIR DISTRIBUTION:

- A. METAL DUCTWORK: SHOP FABRICATED AS FOLLOWS.
 1. MATERIALS: GALVANIZED STEEL SHEET, ASTM A 527-85.
 2. CONSTRUCTION: PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR LOW PRESSURE SYSTEM UP TO 2" W.C. CONSTRUCTION.
 3. JOINT SEALANT: UL LISTED FOSTER MASTIC, HARDCAST FTA-20, KINGCO 18-136.
 4. SUPPLY AIR BRANCH DUCTS RUN IN CONCEALED AREAS MAY BE PRE-INSULATED, UL CLASS 1, FLEXIBLE DUCT - LIMIT LENGTH TO TEN FEET - USE RIGID DUCT FOR REMAINDER OF RUNOUT.
- B. DAMPERS - AS MANUF. BY RUSKIN, CESCO, ARROW, CREATIVE METALS, PREFCO
 1. VOLUME DAMPERS SHALL BE GALVANIZED STEEL, 16 GAUGE, BLADE HEIGHT SHALL NOT EXCEED 12". DAMPER LINKAGE AND LOCKING QUADRANT SHALL BE OUTSIDE OF AIRSTREAM.
 2. MOTORIZED DAMPERS - REFER TO EQUIPMENT LIST ON DRAWINGS.
 3. SPLITTER DAMPER SHALL BE GALV. STEEL, FULL HEIGHT OF DUCT LESS

2.4 CONTROLS:

- A. PROVIDE ALL RELAYS, TRANSFORMERS, CONTROL WIRING, TERMINAL BLOCKS, ETC. FOR A COMPLETE SYSTEM.
 1. COMPONENT MANUFACTURER'S AND MODEL NUMBERS AS SPECIFIED ON DRAWINGS.
- B. THE WARRANTY PERIOD SHALL COMMENCE AFTER 60 DAYS OF BENEFICIAL USE, MEASURED FROM THE DATE OF ACCEPTANCE FROM THE OWNER.

3. EXECUTION

3.1 PIPING SYSTEMS:

- A. VERIFY INVERT ELEVATIONS PRIOR TO EXCAVATION.
- B. BACKFILL BURIED PIPE IN TRENCHES WITH DIRT FREE OF ROCK, STONE OR DEBRIS.
- C. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.
- D. COORDINATE ROUTING OF WORK WITH OTHER TRADES AND INSTALL TO ALLOW MAXIMUM HEADROOM CLEARANCES, SERVICE ACCESS AND MAINTAIN PROPER PITCH OF SLOPING LINES.
- E. INSULATE PIPING SYSTEMS AS FOLLOWS:
 1. REFRIGERANT - 1-1/2" THICK CLOSED CELLULAR RUBBER
 2. HORIZONTAL CONDENSATE DRAIN - 1/2" THICK FIBERGLASS WITH ASJ.
 3. SEAL VAPOR BARRIERS. SECURE WITH ADHESIVE AND SEAL JOINTS WITH SEALANT.
 4. PROVIDE GALVANIZED STEEL SADDLE AT HANGERS SURROUNDING INSULATED PIPE.
 5. DO NOT COMPRESS INSULATION EXCEPT IN AREAS OF STRUCTURAL INTERFERENCE.
 6. INSTALL PRE-FITTED PLASTIC ELBOWS OR APPLY CANVAS JACKET IN THREE LAYERS AT ELBOWS.
 7. INSULATE FITTINGS, VALVES AND EQUIPMENT BODIES.
 8. PROVIDE 2 COATS OF GREY WEATHERPROOF FINISH ON EXTERIOR REFRIGERANT PIPING.
- F. PROVIDE SLEEVES FOR PIPING PENETRATING WALLS. INSULATION SHALL BE CONTINUOUS THROUGH SLEEVES.
- G. FIRESTOP PIPING PASSING THROUGH FIRE RATED WALLS OR CEILINGS.
- H. PATCH FINISHED AREAS DISTURBED BY WORK TO MATCH SURROUNDING AREAS.
- I. WELDING SHALL BE DONE BY CERTIFIED WELDERS FOR THE APPROPRIATE SYSTEM BEING WELDED.
- J. MAKE CONNECTIONS OF DISSIMILAR METALLIC PIPING WITH DIELECTRIC UNIONS.
- K. DO NOT USE PLASTIC PIPING IN RETURN AIR PLENUM SPACES.
- L. PROVIDE SHUT OFF VALVES AT EQUIPMENT CONNECTIONS.
- M. HANGERS SUPPORTING COPPER PIPING SHALL BE COPPER PLATED OR PLASTIC COVERED. HANGERS SUPPORTING INSULATED PIPING SHALL BE SIZED TO SURROUND INSULATION AND STEEL SADDLE.
- N. CLEAN AND FLUSH PIPING THEN TEST PIPING SYSTEMS AS FOLLOWS:
 1. REFRIGERANT PIPING - TO 100 PSIG W/ COMPRESSED AIR FOR FOUR HOURS AND TEST FITTINGS WITH FREON AND HALIDE LEAK DETECTOR.
 2. CONDENSATE DRAIN PIPING - W/ 10 FT. WATER COLUMN OR 5 PSI COMPRESSED AIR FOR 12 HOURS.
 3. TESTS SHALL SHOW NO SUBSTANTIAL LOSS IN PRESSURE.
 4. PIPING RUN IN CONCEALED AREAS SHALL BE LEAK TESTED PRIOR TO BEING CONCEALED.
 5. SUBMIT WRITTEN REPORT OF TEST RESULTS.

3.2 HVAC EQUIPMENT:

- A. PROVIDE PERMANENT TAG ON EQUIPMENT INDICATING EXPIRATION DATE OF WARRANTIES. LOCATE TAG IN A READILY VISIBLE LOCATION.
- B. PROVIDE FACTORY AUTHORIZED START-UP OF EQUIPMENT AND SUBMIT TEST REPORTS. (INCLUDE IN O&M MANUAL). COMPLY WITH MANUFACTURER REQUIREMENTS AND NOTES STATED ON THE CONSTRUCTION DOCUMENTS FOR INSTALLATION OF EQUIPMENT. BALANCE THE OUTSIDE AIR CFM TO QUANTITIES LISTED.
- C. SPLIT SYSTEM UNITS:
 1. SUPPORT INDOOR UNIT FROM STRUCTURE WITH ALL THREAD STEEL RODS AND SPRING TYPE VIBRATION ISOLATORS - INSTALL LEVEL. CONNECT DUCTWORK WITH FLEXIBLE DUCT CONNECTIONS. INSTALL TO ALLOW PROPER SERVICE ACCESS.
 2. PROVIDE DRAIN PAN BENEATH UNITS ON UPPER LEVELS. SUPPORT PAN FROM FLOOR STRUCTURE. SET UNIT 4X4X1" THICK NEOPRENE PADS.
 3. PROVIDE CONDENSATE DRAIN PIPING AND EXTEND TO HUB DRAIN OR TO EXTERIOR - VERIFY TERMINATION POINT WITH LOCAL CODE OFFICIAL AND ARCHITECT.
 4. CONNECT REFRIGERANT PIPING AND CONTROL WIRING.

3.3 AIR DISTRIBUTION:

- A. DUCTWORK:
 1. SEAL JOINTS IN DUCTWORK WITH COATING OF HARDCAST SEALANT OR UL LISTED FSK DUCT TAPE.
 2. INSTALL INTERNAL ENDS OF SLIP JOINTS IN DIRECTION OF AIRFLOWS.
 3. MAXIMUM ANGLE OF OFFSETS AND TRANSITIONS SHALL NOT EXCEED 30 DEGREES.
 4. ADEQUATELY SUPPORT DUCT AS PER CODE REQUIREMENTS - ELIMINATE SAGGING AND COMPRESSION OF DUCT.
 5. TRANSITION DUCTS TO FIT EQUIPMENT. PROVIDE FLEXIBLE FLAME RETARDANT DUCT CONNECTIONS TO FURNACES AND GAS FIRED PACKAGED UNITS.
 6. PROVIDE 1/2" THICK ACOUSTICAL SOUNDLINING IN RETURN AIR TRUNK DUCTS WITHIN TWENTY FEET OF FURNACES AND AHU'S. SECURE LINER TO DUCTS WITH ADHESIVE, AT 70% COVERAGE AND WITH MECHANICAL FASTENERS AT 18" CENTERS, AND WITHIN 6" OF BUTT JOINTS AND EDGES OF DUCT. COAT ALL EXPOSED ROUGH LINER WITH MASTIC. ENLARGE DUCT TO ACCOMMODATE THE LINER - SIZES ON THE PLANS ARE INSIDE FREE AREA DIMENSIONS.
 7. USE LONG RADIUS RIGID DUCT FITTINGS AT ELBOWS IN FLEXIBLE DUCT FLEXIBLE DUCT EXCEEDING 60 DEGREE ANGLE. ELBOWS IN FLEXIBLE DUCT LESS THAN 60 DEGREE ANGLE SHALL BE LONG SWEEP TYPE.

- B. INSULATE DUCT SYSTEMS PER CODE OR AS FOLLOWS, WHICHEVER IS MORE STRINGENT:
 1. WITHIN BUILDING STRUCTURE AND INSIDE OF BUILDING INSULATION ENVELOPE (OUTSIDE AIR, SUPPLY AND RETURN AIR DUCTS): ONE LB./CU.FT. DENSITY, 2" THICK FIBERGLASS, WITH FSK JACKET; OR WITH 3/8" THICK FOIL FACED AIR CELL INSULATION, REFLECTIX OR EQUAL.
 2. INSULATE SUPPLY AIR AND RETURN AIR DUCTS OUTSIDE OF BUILDING INSULATION WITH 3" THICK FIBERGLASS WITH FSK JACKET - MINIMUM R = 8.0 INSTALLED.
 3. EXHAUST AIR DUCTS: DO NOT INSULATE.
 4. SECURE INSULATION TO DUCTS W/ ADHESIVE AT 60% COVERAGE AND SECURE WITH MECHANICAL FASTENERS AND WASHERS AT 18" CENTERS - SEAL VAPOR BARRIER.
- C. DAMPERS: ACTUATORS AND PUSH-RODS SHALL BE ACCESSIBLE.
 1. ACTUATORS AND PUSH-RODS SHALL BE ACCESSIBLE.
 2. PROVIDE COMBINATION DAMPER/EXTRACTOR/SPIN-IN FOR ROUND DUCT CONNECTIONS TO TRUNK DUCTS. PROVIDE 45 DEGREE BEVEL INLET WITH BALANCE DAMPER FOR RECTANGULAR DUCT CONNECTIONS TO TRUNK DUCT. DAMPER ADJUSTMENT TO BE LOCATED ON BOTTOM SIDE OF DUCT.
- D. ACCESS DOORS - PROVIDE IN DUCT FOR ACCESS TO COILS, FILTERS, FIRE & MOTORIZED DAMPERS, AND ALL OTHER EQUIPMENT NOT OTHERWISE ACCESSIBLE. INSTALL TO ALLOW SERVICE ACCESS. PROVIDE LABEL ON ACCESS DOOR INDICATING DEVICE SERVED.
- E. BALANCE AIR DISTRIBUTION TO WITHIN 10% OF DESIGN AND SUBMIT REPORT.
 1. REPORT SHALL IDENTIFY ZONES, DESIGN AIRFLOWS AND FINAL AIRFLOWS (SUPPLY AIR, RETURN AIR AND OUTSIDE AIR). SUPPLY AND RETURN STATIC PRESSURES, ENTERING AND LEAVING AIR TEMPERATURES.
 2. INCLUDE EXHAUST FAN SYSTEMS, AND HVAC EQUIPMENT.
 3. COMPLY WITH NEBB AND AABC REQUIREMENTS.

3.4 CONTROLS:

- A. SEAL PROBE PENETRATIONS FOR DUCT MOUNTED SENSORS.
- B. PROVIDE JUNCTION BOX HOUSING FOR CONTROL WIRING INTERLOCK TO COMPONENTS.
- C. ROUTE CONDUCTORS NEATLY AND PARALLEL OR PERPENDICULAR TO BUILDING CONSTRUCTION. WIRING AND CONDUCTORS IN FINISHED SPACES TO BE RUN CONCEALED.
- D. SEQUENCE OF CONTROL
 1. ON A CALL FOR COOLING - BLOWER AND COOL COMPRESSOR SHALL BE ENABLED.
 2. ON A CALL FOR HEAT - BLOWER AND GAS HEAT SHALL BE ENABLED. FOR HEAT PUMP, BLOWER AND HEAT COMPRESSOR SHALL BE ENABLED. ON A CALL FOR ADDITIONAL HEAT, AUX. ELECTRIC STRIP HEAT SHALL BE ENABLED AND STAGED.
 3. OA TO BE INTRODUCED IN SPACES WHEN BLOWER RUNS. FOR UNITS WITH MOTORIZED OA DAMPER ONLY, THERMOSTAT TO OPEN DAMPER IN OCCUPIED MODES TO MINIMUM SETPOINT, OTHERWISE OA DAMPER TO CLOSE.
 4. PROGRAM THERMOSTATS PER OWNER'S SCHEDULING.
 5. FLOAT SWITCH IN DRAIN PAN TO DISABLE HVAC UNIT IN CASE OF WATER IN PAN.
 6. OUTSIDE AIR TO BE INTRODUCED WHEN BLOWER RUNS. FOR UNITS WITH AIR QUALITY SENSOR, THERMOSTAT TO ENABLE SENSOR TO OPEN MOTORIZED OA DAMPER TO SETPOINT IN CASE OF POOR RA QUALITY (1000 PPM IN OCCUPIED MODES ONLY), OTHERWISE OA DAMPER TO CLOSE.

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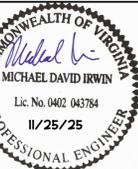
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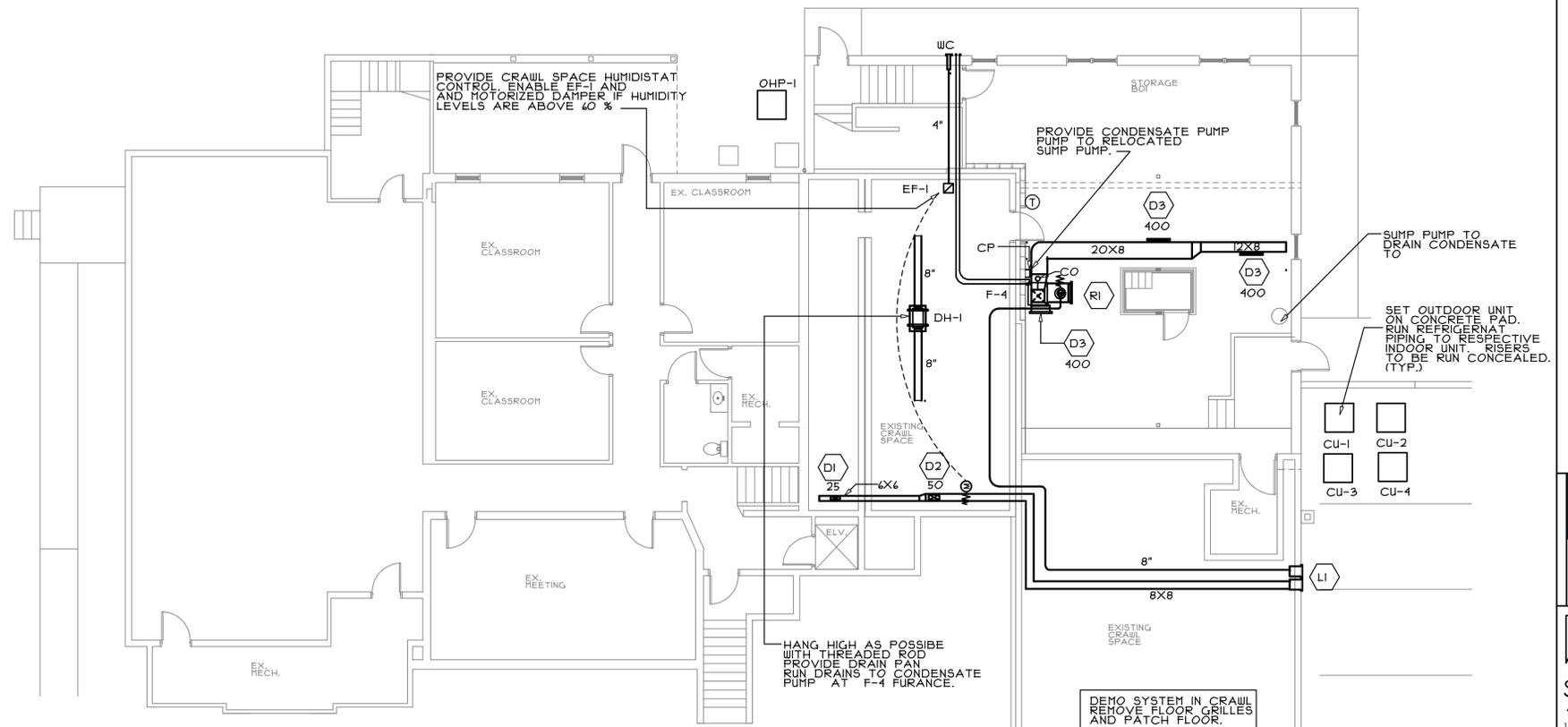
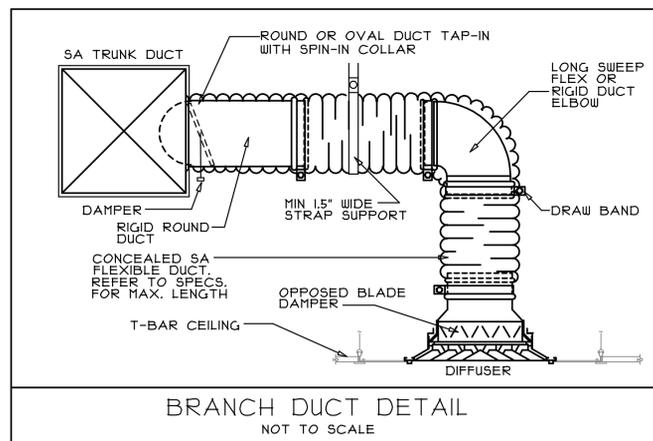
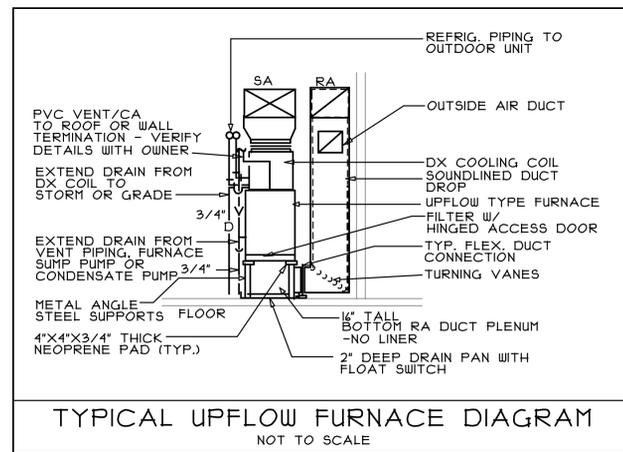
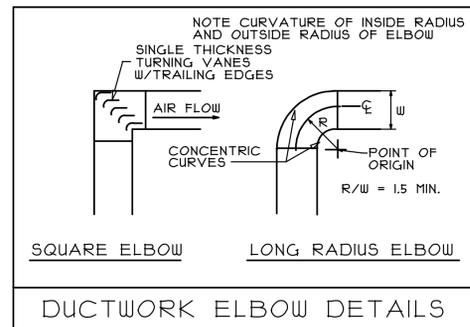
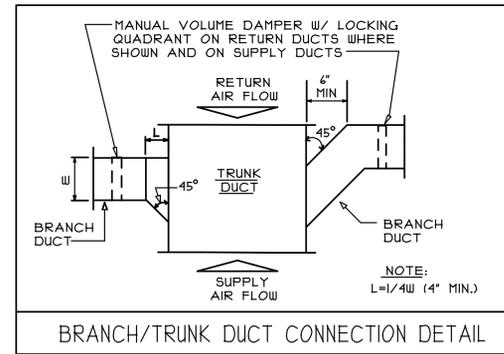
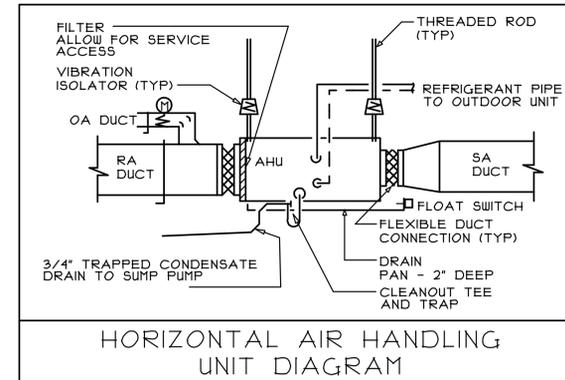
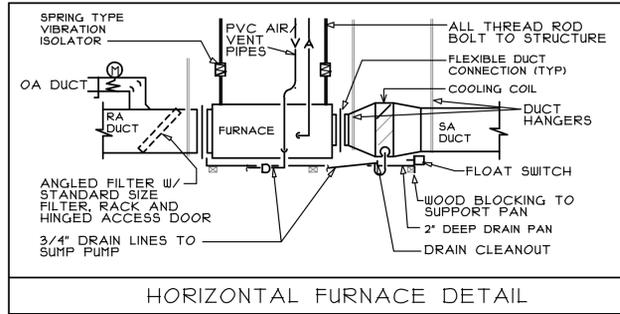


REVISIONS:

DRAWN: GSW
CHECKED: MDI
SCALE: NO SCALE
DATE: 11-25-25
PROJECT #: 25117

HVAC
SPECIFICATIONS

M0.1



EQUIPMENT LIST

EQUIPMENT: EQUIVALENT MANUFACTURERS MAY BE SUBSTITUTED. EQUIPMENT TO BE UL OR ETL LISTED.

Ⓧ - THERMOSTAT - SHALL BE 24 VAC HEATING-COOLING AUTO-CHANGEOVER TYPE, W/ FAN SWITCH SUBBASE, SUITABLE FOR HEAT PUMP USE AS APPLICABLE, 1 DAY PROGRAMMABLE, W/ OVERRIDE TIMER, AUX. CONTACT TO OPEN OA MOD IN OCCUPIED MODES, 2 STAGE HEAT, W/ LOCKING COVER FOR T'STATS IN PUBLIC AREAS. HONEYWELL OR EQUAL. (THERMOSTAT TO HAVE "BE (WIFI READY)

DH-1 - DEHUMIDIFIER, SANTA FE ULTRA 10 FLOOR MOUNT, 155 CFM, WEIGHT 55 LBS, 120 VOLT VAC/60 HZ 2.8 AMPS, WITH 10' ELECTRICAL CORD AND PLUG, WITH HUMIDISTAT.

MOD - 24 VAC MOTORIZED DAMPER, 2 POSITION TYPE, W/ ACTUATOR AND LINKAGE MTD, OUTSIDE OF AIRSTREAM, NORMALLY CLOSED, SIZE TO FIT DUCT, HONEYWELL OR EQUAL.

CO2 SENSOR - CARBON DIOXIDE TYPE, 350 TO 2250 PPM RANGE, NON-GROUNDING, 24V TRANSFORMER, DUCT MOUNTED, 2 POSITION CONTROL, HONEYWELL OR EQUAL.

FLOAT SWITCH - LOCATED IN GALV. STEEL CONDENSATE DRAIN PAN. SPST, 24 VAC CONTACTS, LITTLE GIANT MDL. ACF-2 OR EQUAL.

CP - CONDENSATE PUMP - SHALL BE 120V LITTLE GIANT MDL. VCC-200LS OR EQUAL W/ PLUG AND CORD, RESERVOIR WITH FLOAT CONTROL, 40 GPH AT 10' HEAD.

FAN SCHEDULE

NO.	DESCRIPTION	CFM	E.S.P.	HP	RPM	VOLT/PHASE	MFR. MDL.	REMARKS
EF-1	BATHROOM VENTILATOR	163	0.100	NA	750	120/1	BROAN 4TR44/L150	NOTES 1,2

- NOTES**
- WITH SAFETY SWITCH
 - WITH BACKDRAFT DAMPER

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Michael David Irwin
MICHAEL DAVID IRWIN
Lic No. 0402 043784
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PROFESSIONAL ENGINEER

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BASEMENT HVAC PLAN & DETAILS

M1.1

SYMBOLS

- ☒ SUPPLY DUCT
- ☑ RETURN OR EXHAUST DUCT
- Ⓣ THERMOSTAT-MTD. 48" AFF
- Ⓐ INDICATES AIR OUTLET OR INLET TOP LETTER INDICATES GRID TYPE (SEE SCHEDULE); BOTTOM NUMERAL INDICATES CFM FOR BALANCING
- SD SMOKE DETECTOR
- CO DUCT MTD. AIR QUALITY SENSOR
- ⓂⓂⓂ MOTORIZED DAMPER (MOD)
- EXISTING MECHANICAL WORK
- REMOVE EXISTING MECHANICAL WORK
- ⊕ POINT OF CONNECTION OF NEW WORK TO EXISTING
- Ⓜ NUMERAL INDICATES CFM FOR BALANCING EXISTING CD
- ☐CO AIR QUALITY SENSOR - MTD. 48" AFF

ABBREVIATIONS

- CD CEILING DIFFUSER
- EF EXHAUST FAN
- ETR EXISTING TO REMAIN
- RG RETURN GRILLE
- TYP TYPICAL

DEMOLITION NOTES

1. REMOVE MECHANICAL ITEMS AS SHOWN OR AS REQUIRED TO CLEAR AREAS OF NEW CONSTRUCTION.
2. ITEMS TO REMAIN IN USE WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE REMOVED, CLEANED AND REINSTALLED TO ORIGINAL WORKING ORDER.
3. PROPERLY EVACUATE AND CAPTURE REFRIGERANT IN ACCORDANCE WITH APPLICABLE REGULATIONS. STORE OR DISPOSE OF CAPTURED REFRIGERANT AS DIRECTED BY THE OWNER.
4. CAP PIPING SYSTEMS TO BE ABANDONED TO BEYOND FINISHED SURFACES.

GRILLES, REGISTERS, DIFFUSERS AND LOUVERS

TYPE	DESCRIPTION	NECK	FRAME	FINISH	MFR. MDL.	REMARKS
D1	2-WAY CEILING DIFFUSER	12X4	FLANGE	WHITE	PROSELECT PS2WU12P	FRAME
D2	2-WAY CEILING DIFFUSER	12X4	FLANGE		PROSELECT PS2WU12U	
D3	2-WAY CEILING DIFFUSER	24X8	FLANGE		PROSELECT PS2WU24X	
D4	4-WAY CEILING DIFFUSER	8X8	FLANGE		PROSELECT PSSQCDW8	
D5	4-WAY CEILING DIFFUSER	14X14	FLANGE		PROSELECT PSSQCD14	FRAME
RI	RETURN AIR GRILLE	18X18	FLANGE		PROSELECT PSAH45W18B	FRAME
L1	OUTSIDE AIR INTAKE LOUVER	12X12	FLANGE	ALUM	DAYTON 20UA01	DRAINABLE BLADES W/ BIRDSCREEN
L2	OUTSIDE AIR INTAKE LOUVER	24X24	FLANGE	ALUM	DAYTON 20UA09	DRAINABLE BLADES W/ BIRDSCREEN

HVAC EQUIPMENT SCHEDULE

ZONE	OUTDOOR HEAT PUMP	NOMINAL TONS	TOTAL COOLING	SEER2	O.U. VOLTS	O.U. MCA/MOCP	HSPF2	INDOOR UNIT		CFM	ESP.	MIN. OA CFM	BLOWER SPEED	HP	I.U. VOLTS	I.U. MCA/MOCP	I.U. WEIGHT	REMARKS
								KW HEAT	MODEL NO.									
OHP-1 AH-1	CARRIER 21SCA548AO03	4	48,000	14.5	240/1	29.4 50	1.5	10	CARRIER FJ5ANXC48L00	1600	0.50"	246	VARIABLE	1/2	240/1	56.9 60	200LBS.	①②③④⑤

NOTES:

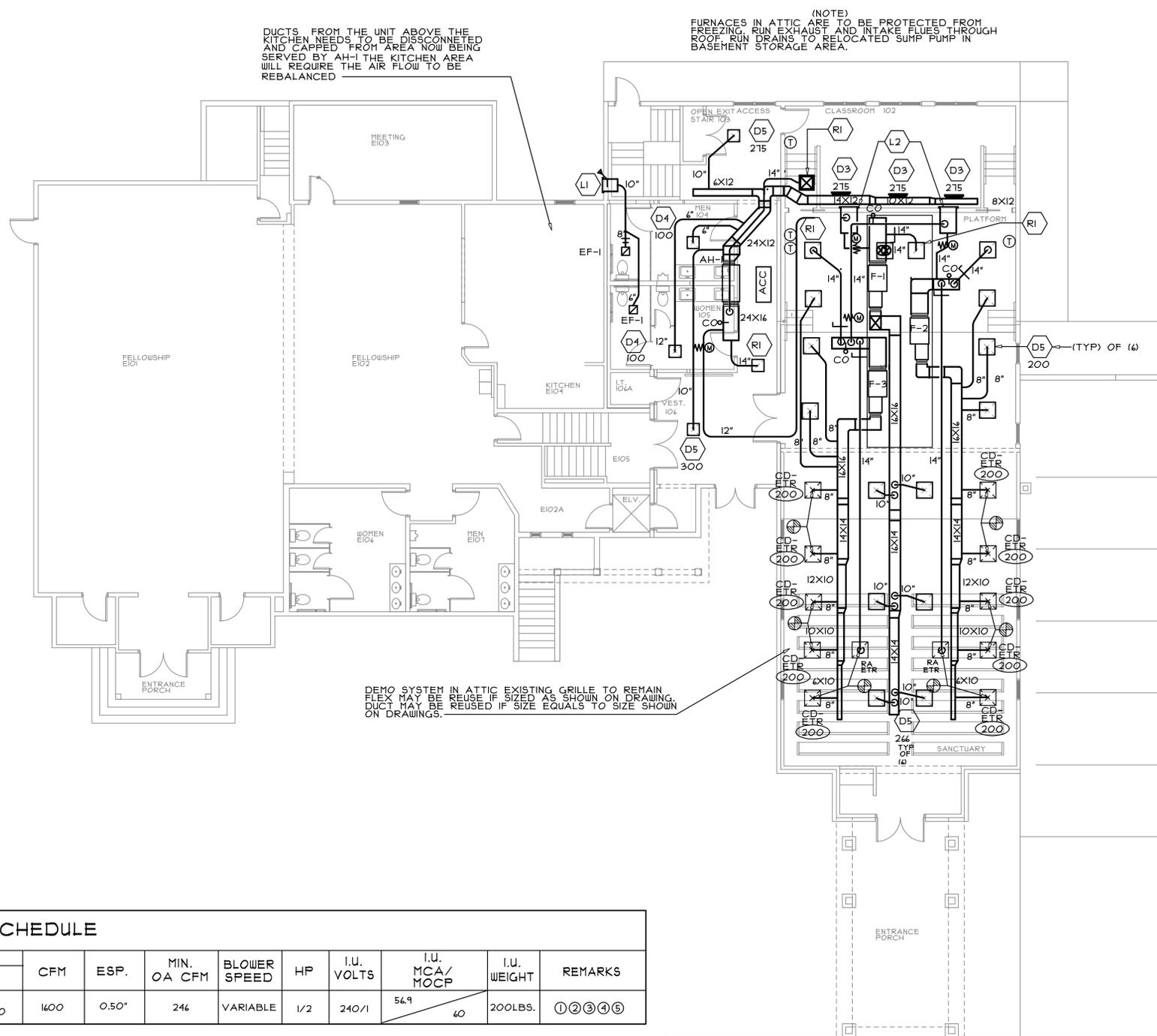
- ① COOLING CAPACITIES AT 95F DB/67F EWB TEMPERATURES. PROVIDE BLOWER TIME DELAY RELAYS.
- ② REFER TO DRAWINGS FOR EXACT AIRFLOW QUANTITIES.
- ③ W/ COMPRESSOR TIME DELAY, COMPRESSOR CRANKCASE HEATER, REFRIGERANT LINE FILTER DRIER, HIGH AND LOW PRESSURE SWITCHES, RA FILTER.
- ④ W/ INTEGRAL ELECTRIC HEAT KIT CIRCUIT BREAKERS
- ⑤ W/ LOW AMBIENT CONTROLS

HVAC EQUIPMENT SCHEDULE

ZONE	A/C CONDENSER CARRIER	NOMINAL TONS	SENSIBLE COOLING	SEER2	O.U. VOLTS	O.U. FLA/MOCP	EVAP. COIL CARRIER	FURNACE			② CFM	ESP.	MIN. OA CFM	BLOWER SPEED	HP	I.U. VOLTS	I.U. FLA/MOCP	WEIGHT	REMARKS
								BTUH INPUT	EFF.	MODEL NO.									
F-1,2,3 CU-1,2,3	26SCA548W003	4	48,000	13.8	240/1	29.1 40	CAAMP4821A1A	80,000	96%	CARRIER 595C5B080E11-16	1665	.50	546	HIGH	3/4	120/1	9.2 15	250	①②③④
F-4 CU-4	26SCA534W003	3	36,000	13.8	240/1	17.6 30	CAAMP3411A1A	60,000	96%	CARRIER 595C5B060E11-14	1200	.50	151	HIGH	3/4	120/1	8.8 15	250	①②③④

NOTES:

- ① COOLING CAPACITIES AT 95F DB/67F EWB TEMPERATURES. PROVIDE TIME DELAY RELAYS.
- ② REFER TO DRAWINGS FOR EXACT AIRFLOW QUANTITIES.
- ③ W/ COMPRESSOR TIME DELAY, COMPRESSOR CRANKCASE HEATER, REFRIGERANT LINE FILTER DRIER, HIGH AND LOW PRESSURE SWITCHES, RA FILTER.
- ④ W/ LOW AMBIENT CONTROL COMPONENTS.



UPPER FLOOR HVAC PLAN

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

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UPPER FLOOR HVAC PLAN & SCHEDULES

M1.2

PERMIT SET

LIGHTING FIXTURE CONTROLS SYMBOLS LIST

LV	PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LOW VOLTAGE CEILING MOUNT SENSOR WITH LOW VOLTAGE CONTROL CABLE TO RESPECTIVE RELAY POWER PACK, EXTENDED RANGE TYPE
D	PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE WALL MOUNT SENSOR, AT 48" AFF TO TOP OF BOX, MANUAL "ON" AUTOMATIC "OFF"
SL	ON-OFF ONLY WALL MOUNT SWITCH WITH LOW VOLTAGE WIRING TO RELAY POWER PACK AT 48" AFF TO TOP OF BOX
S3L	3-WAY ON-OFF ONLY WALL MOUNT SWITCH WITH LOW VOLTAGE WIRING TO RELAY POWER PACK AT 48" AFF TO TOP OF BOX
S3DL	3-WAY WALL MOUNT SWITCH WITH 0-10VDC DIMMING CONTROL AND LOW VOLTAGE WIRING TO RELAY POWER PACK AT 48" AFF TO TOP OF BOX
◆	RELAY POWER PACK ABOVE NEAREST ACCESSIBLE LAY-IN CEILING, PROVIDE ACCESS PANEL IF PLACED ABOVE GYP. CEILING
AFF	ABOVE FINISHED FLOOR

LIST NOTES

- ACCEPTABLE MANUFACTURERS SHALL BE LEVITON, LUTRON, SENSOR SWITCH AND STEINEL.
- ALL COMPONENTS AND WIRING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- ADJUST SENSITIVITY, OVERRIDE SWITCHES (WHERE APPLICABLE) AND TIME DELAYS TO THE SATISFACTION OF THE OWNER.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	VOLTS	PH	RATED LOAD AMPS	WIRE	GND.	MOCPP	DISCONNECT	PNL. # CKT.	REMARKS
①	CU-1	240	1	29.1	#8	#10	40A	2P-40A-NFSS	E-1	NEMA 3R
②	CU-2	240	1	29.1	#8	#10	40A	2P-40A-NFSS	E-5	NEMA 3R
③	CU-3	240	1	29.1	#8	#10	40A	2P-40A-NFSS	E-9	NEMA 3R
④	CU-4	240	1	17.6	#10	#10	30A	2P-30A-NFSS	E-13	NEMA 3R
⑤	F-1	120	1	9.2	#12	#12	15A	TOGGLE SWITCH	E-10	
⑥	F-2	120	1	9.2	#12	#12	15A	TOGGLE SWITCH	E-12	
⑦	F-3	120	1	9.2	#12	#12	15A	TOGGLE SWITCH	E-14	
⑧	F-4	120	1	8.8	#12	#12	15A	TOGGLE SWITCH	E-16	
⑨	OHP-1	240	1	29.4	#8	#10	50A	2P-40A-NFSS	E-6	NEMA 3R
⑩	AH-1	240	1	56.9	#6	#10	40A	2P-40A-NFSS	E-2	
⑪	DH-1	120	1	2.8	#12	#12	20A	CORD & PLUG	D-22	NOTE 1
⑫	TANKLESS WATER HEATER	240	1	17.1	#10	#10	30A	2P-30A-NFSS	B-13, B-14	2 LOCATIONS
⑬	SEWAGE PUMP	120	1	12.0	#12	#12	20A	CORD & PLUG	D-20	NOTE 2
⑭	BAPTISTRY	240	1	25.0	#8	#10	40A	2P-40A-NFSS	D-1	NOTE 3

SCHEDULE NOTES

- VERIFY FINAL LOCATIONS, CONNECTIONS, ELECTRICAL CHARACTERISTICS, ETC. WITH FINAL EQUIPMENT SELECTIONS. CONTRACTOR IS RESPONSIBLE FOR CORRECTNESS OF ALL BREAKERS, WIRES, ETC.
- CU = CONDENSING UNIT, F = FURNACE, OHP = OUTDOOR HEAT PUMP, AH = AIR HANDLING UNIT.
- MOUNT DUPLEX RECEPTACLE POWERING UNIT TO SIDE OF UNIT HOUSING.
- VERIFY ALL REQUIREMENTS WITH THE SEWAGE PUMP MANUFACTURER PRIOR TO ANY ROUGH-IN AND WIRE ALL COMPONENTS AS DIRECTED. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- VERIFY ALL REQUIREMENTS WITH THE BAPTISTRY CONTROL SYSTEM MANUFACTURER PRIOR TO ANY ROUGH-IN AND WIRE THE SYSTEM AS DIRECTED. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

LIGHTING FIXTURE SCHEDULE

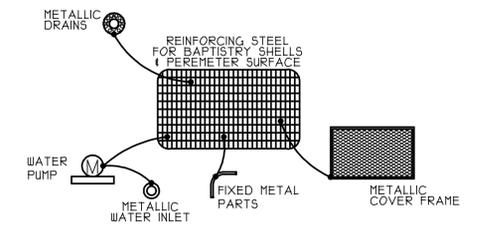
TYPE	MANUFACTURER/CATALOG NO.	LAMPS		WATTAGE	MOUNTING	REMARKS
		NO.	TYPE			
①	LITHONIA CPANLIX4AL01SWM114-IX4SMKSH	3300	LUMEN LED	30.1	SURFACE	NOTE 1
②	JUNO JSF-11N1OLM-SWU5-9OCRI-MVOLT-ZT-JSFTRIM-11N-WH	1300	LUMEN LED	12.1	SURFACE	NOTE 2
③	LED VANITY LIGHT #150.00 ALLOWANCE PER FIXTURE	20	WATTS MAXIMUM	20.0	WALL ABOVE SINK	NOTE 3
④	LIGHTSMITH IO2-PT-X-X-120V-C-X	1	13W LED BODY 38W LED DOWN	90.0	CHAIN HUNG	NOTES 4, 5, 6
⑤	LITHONIA LDN6-AL03-SWU1-LO6-AR-LSS-MVOLT-UGZI	2500	LUMEN LED	32.0	RECESSED	NOTE 1
⑥	LITHONIA R#2L-CPY-35K-8OCRI-MVOLT-SP-X	3500	LUMEN LED	31.1	SURFACE	NOTES 1, 8
⑦	LITHONIA CSS-L48-AL03-MVOLT-MINO-ZT-SWU3-8OCRI	5000	LUMEN LED	38.0	SURFACE	NOTE 1
⑧	LITHONIA CSS-L48-AL03-MVOLT-MINO-ZT-SWU3-8OCRI	3000	LUMEN LED	23.0	WALL ABOVE DOOR	NOTE 1
⑨	LITHONIA WDGEILED-P2-40K-8OCRI-VW-MVOLT-SRM-PE-X	2000	LUMEN LED	15.0	WALL ABOVE DOOR OR AT 1'-6" AFF	NOTE 5
⊕	LITHONIA LQM-S-X-RG-MVOLT	FURNISHED	W/FIXTURE	--	WALL ABOVE DOOR	NOTES 9, 10
⊗	LITHONIA LQM-S-X-RG-MVOLT	FURNISHED	W/FIXTURE	--	SURFACE	NOTES 9, 10
⊕	LITHONIA LHQM-S-X-RG-MVOLT-HO	FURNISHED	W/FIXTURE	--	WALL ABOVE DOOR	NOTES 9, 10
⊗	LITHONIA LHQM-S-X-RG-MVOLT-HO	FURNISHED	W/FIXTURE	--	SURFACE	NOTES 9, 10
⊕	LITHONIA ELM4L-UVOLT-LTP-SDRT	FURNISHED	W/FIXTURE	--	WALL AT 1'-6" AFF	
⊗	LITHONIA ELM4L-UVOLT-LTP-SDRT	FURNISHED	W/FIXTURE	--	SURFACE	
⊕	LITHONIA ELMRW-LP22OL-X-T	FURNISHED	W/FIXTURE	--	WALL ABOVE DOOR	NOTES 5, 11
⊗	LITHONIA ELMRW-LP22OL-X-T	FURNISHED	W/FIXTURE	--	SURFACE	NOTES 5, 11

SCHEDULE NOTES

- EQUIVALENT FIXTURES ACCEPTED BY ALTERNATE MANUFACTURERS; AXIS, CREE, RAB, SIGNIFY.
- ALL FIXTURES SPECIFIED HAVE AN INTERGRATED LED ARRAY UNLESS NOTED OTHERWISE.
- INITIALLY SET THE FIXTURE TO THE NOMINAL LUMENS INDICATED AND THE 3500K COLOR TEMPERATURE AND ADJUST IN THE FIELD TO THE OWNER'S SATISFACTION.
- INITIALLY SET THE FIXTURE TO THE 3500K COLOR TEMPERATURE AND ADJUST IN THE FIELD TO THE OWNER'S SATISFACTION.
- FIXTURE SHALL BE SELECTED BY THE OWNER AND/OR ARCHITECT AND FURNISHED AND INSTALLED BY THE CONTRACTOR. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- VERIFY DIFFUSER STYLE WITH THE ARCHITECT AND/OR OWNER.
- VERIFY FIXTURE FINISH WITH THE ARCHITECT AND/OR OWNER.
- FIXTURE MOUNTING HEIGHT SHALL MATCH THAT OF EXISTING PENDANT FIXTURES BEING REMOVED. PROVIDE CHAIN LENGTH AS REQUIRED.
- AIM FIXTURE AS DIRECTED BY THE OWNER OR OWNER'S AVL REPRESENTATIVE.
- FIXTURE SHALL HAVE 0-10V DIMMING.
- VERIFY FIXTURE HOUSING COLOR WITH THE ARCHITECT AND/OR OWNER.
- SET THE LETTER COLOR OF THE FIXTURE TO RED.
- CONNECT THE REMOTE EXTERIOR EMERGENCY FIXTURE TO THE HIGH OUTPUT BATTERY OF THE INTERIOR EXIT LIGHT AS DIRECTED BY THE MANUFACTURER.

BAPTISTRY ELECTRICAL SPECIFICATION NOTES

- PROJECT SHALL BE IN ACCORDANCE WITH THE 2021 VBC AND 2021 ISPSC.
- INSTALL BAPTISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH ISPSC CHAPTER 3.
- ELECTRICAL SHALL BE INSTALLED WITH CLEARANCES TO THE EDGE OF THE BAPTISTRY AS DETAILED IN NEC 480.40.
- BONDING AND GROUNDING OF BAPTISTRY SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND WITH MANUFACTURER'S INSTALLATION GUIDELINES.
- ELECTRICIAN TO INSTALL ALL ELECTRICAL FOR BAPTISTRY EQUIPMENT AND MAKE ALL FINAL CONNECTIONS.
- PROVIDE AND INSTALL EQUIPOTENTIAL BONDING IN ACCORDANCE WITH NEC 480.26.



EQUIPOTENTIAL BONDING DIAGRAM
NO SCALE

NOTE:
THIS DIAGRAM IS SCHEMATIC IN NATURE AND IS NOT INTENDED TO BE THE ONLY ACCEPTABLE ROUTING METHOD FOR THE EQUIPOTENTIAL BONDING SYSTEM. NOT ALL COMPONENTS SHOWN MAY BE PRESENT. COORDINATE WITH EQUIPMENT PROVIDED.

PARTS SPECIFIED IN 480.26(B)(1)-(B)(7) TO BE BONDED TOGETHER USING:
- SOLID COPPER CONDUCTORS, INSULATED COVERED OR BARE, NOT SMALLER THAN #8 AWG
- RIGID METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION-RESISTANT METAL

SYMBOLS LIST

A-1	OUTLET FOR CEILING OR WALL MOUNTED FLUORESCENT OR LED LIGHTING FIXTURE WITH CIRCUIT NUMBER	▷	EXISTING OUTLET FOR LOW VOLTAGE CABLE (DATA, TELEPHONE OR TELEVISION) AT 18" AFF
⊕	EXISTING OUTLET FOR CEILING OR WALL MOUNTED FLUORESCENT OR LED LIGHTING FIXTURE	▷	EXISTING OUTLET FOR LOW VOLTAGE CABLE (DATA, TELEPHONE OR TELEVISION) AT 48" AFF
A-1	OUTLET FOR CEILING OR WALL MOUNTED INCANDESCENT, COMPACT FLUORESCENT, LED OR HID LIGHTING FIXTURE WITH CIRCUIT NUMBER	⊕	OUTLET FOR WALL MOUNTED SPEAKER WITH 3/4" EC STUBBED INTO ACCESSIBLE ATTIC SPACE AS DIRECTED BY THE OWNER'S AVL REPRESENTATIVE. VERIFY MOUNTING HEIGHT AND ALL OTHER REQUIREMENTS WITH THE OWNER'S AVL REPRESENTATIVE PRIOR TO ANY ROUGH-IN
⊕	EXISTING OUTLET FOR CEILING OR WALL MOUNTED INCANDESCENT, COMPACT FLUORESCENT, LED OR HID LIGHTING FIXTURE	⊕	OUTLET FOR WALL MOUNTED CAMERA WITH 3/4" EC STUBBED INTO ACCESSIBLE ATTIC SPACE AS DIRECTED BY THE OWNER'S AVL REPRESENTATIVE. VERIFY MOUNTING HEIGHT AND ALL OTHER REQUIREMENTS WITH THE OWNER'S AVL REPRESENTATIVE PRIOR TO ANY ROUGH-IN
A-1	OUTLET FOR CEILING MOUNTED SPOTLIGHT LIGHTING FIXTURE WITH CIRCUIT NUMBER	⊕	OUTLET FOR FIRE ALARM PULL STATION AT 48" AFF TO TOP OF BOX WITH A 3/4" EC STUBBED INTO ACCESSIBLE CEILING SPACE
A-1	OUTLET FOR CEILING OR WALL MOUNTED EXIT LIGHTING FIXTURE WITH BATTERY BACKUP WITH CIRCUIT NUMBER	⊕	EXISTING FIRE ALARM PULL STATION AT 48" AFF
A-1	OUTLET FOR CEILING OR WALL MOUNTED TWIN HEAD EMERGENCY EGRESS LIGHTING FIXTURE WITH BATTERY BACKUP WITH CIRCUIT NUMBER	⊕	OUTLET FOR AUDIO/VISUAL FIRE ALARM SIGNAL DEVICE AT 4'-8" AFF WITH A 3/4" EC STUBBED INTO ACCESSIBLE CEILING SPACE
A-1	OUTLET FOR CEILING OR WALL MOUNTED COMBINATION EXIT/EMERGENCY EGRESS LIGHTING FIXTURE WITH BATTERY BACKUP WITH CIRCUIT NUMBER	⊕	OUTLET FOR VISUAL ONLY FIRE ALARM SIGNAL DEVICE AT 4'-8" AFF WITH A 3/4" EC STUBBED INTO ACCESSIBLE CEILING SPACE
⊕	OUTLET FOR CEILING MOUNTED EXTERIOR EMERGENCY EGRESS LIGHTING FIXTURE WITH REMOTE BATTERY BACKUP	ER	OUTLET FOR CEILING MOUNTED SMOKE DETECTOR WITH ELEVATOR RECALL WITH A 3/4" EC STUBBED INTO ACCESSIBLE CEILING SPACE
⊕	OUTLET FOR WALL MOUNTED EXTERIOR EMERGENCY EGRESS LIGHTING FIXTURE WITH REMOTE BATTERY BACKUP	⊕	SAFETY SWITCH AT 48" AFF TO TOP OF BOX OR AT ASSOCIATED PIECE OF EQUIPMENT. CIRCUIT NUMBER SHOWN WHERE APPLICABLE
⊕	OUTLET FOR EXISTING CEILING MOUNTED PADDLE FAN	M	MOTOR OUTLET
①	LIGHTING FIXTURE TYPE	⊕	AIR QUALITY SENSOR (120V-1PH) FURNISHED AND INSTALLED BY HVAC WIRED BY ELECTRICAL
S	SINGLE POLE WALL SWITCH AT 48" AFF TO TOP OF BOX	⊕	EXHAUST FAN (120V-1PH) FURNISHED AND INSTALLED BY HVAC WIRED BY ELECTRICAL
A-1	GENERAL PURPOSE DUPLEX RECEPTACLE AT 18" AFF TO BOTTOM OF BOX WITH CIRCUIT NUMBER	A-1	PHOTOCELL, LOCATE IN ACCESSIBLE LOCATION AND SHIELD FROM SURROUNDING LIGHT SOURCES WITH CIRCUIT NUMBER
⊕	EXISTING GENERAL PURPOSE DUPLEX RECEPTACLE AT 18" AFF	■	PANELBOARD
A-1	GENERAL PURPOSE DUPLEX RECEPTACLE AT 48" AFF TO TOP OF BOX WITH CIRCUIT NUMBER	⊕	EQUIPMENT CONNECTION DESIGNATION SEE SCHEDULE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER AT 18" AFF TO BOTTOM OF BOX WITH CIRCUIT NUMBER	②	KEYED NOTE DESIGNATION
A-1	GROUND FAULT CIRCUIT INTERRUPTER AT 48" AFF TO TOP OF BOX WITH CIRCUIT NUMBER	— —	SWITCH LEG WIRING, 2 #12 - CROSS MARKS INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO
A-1	GENERAL PURPOSE QUADRAPLEX RECEPTACLE AT 18" AFF TO BOTTOM OF BOX WITH CIRCUIT NUMBER	— —	EXISTING SWITCH LEG WIRING
⊕	GENERAL PURPOSE QUADRAPLEX RECEPTACLE AT 18" AFF	— —	SWITCH LEG WIRING, 2 #12 - WITH ADDITIONAL DIMMING CONTROL WIRING AS REQUIRED FOR FIXTURE SUPPLIED
CP	OUTLET FOR CONDENSATE PUMP HEIGHT TO SUIT APPLIANCE SERVED WITH CIRCUIT NUMBER	—LV—	LOW VOLTAGE WIRING, 2 #10 IN CONDUIT
A-1	DUAL SERVICE FLUSH FLOOR OUTLET WITH DUPLEX RECEPTACLE WITH CIRCUIT NUMBER AND A 1" EC STUBBED INTO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE CABLE WITH BRASS COVERPLATE. VERIFY EXACT LOCATION WITH OWNER'S AVL REPRESENTATIVE PRIOR TO ANY ROUGH-IN	AFF	ABOVE FINISHED FLOOR
⊕	FLUSH FLOOR OUTLET FOR LOW VOLTAGE AVI CABLE WITH A 1" EC STUBBED INTO ACCESSIBLE CEILING SPACE WITH BRASS COVERPLATE. VERIFY EXACT LOCATION WITH OWNER'S AVL REPRESENTATIVE PRIOR TO ANY ROUGH-IN	C/EC	CONDUIT/EMPTY CONDUIT
▷	OUTLET FOR LOW VOLTAGE CABLE (DATA, TELEPHONE OR TELEVISION) AT 18" AFF TO BOTTOM OF BOX WITH A 3/4" EC STUBBED INTO ACCESSIBLE CEILING SPACE	DTL	DOWN TO LIGHT
		DTOS	DOWN TO OCCUPANCY SENSOR
		ENC	EXISTING, NO CHANGE
		FSS/NFSS	FUSIBLE/NON-FUSIBLE SAFETY SWITCH
		OU	OUTDOOR UNIT
		UTL	UP TO LIGHT
		UTPP	UP TO POWER PACK
		WP	WEATHERPROOF

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1629 NOVUM CHURCH ROAD
REVA, VIRGINIA 22735

COMMONWEALTH OF VIRGINIA
MICHAEL DAVID IRWIN
Lic. No. 0402 043784
11/25/25
PROFESSIONAL ENGINEER

REVISIONS:

DRAWN: RBP
CHECKED: WFS
SCALE: NONE
DATE: 11-25-25
PROJECT #: 25117

ELEC. SCHEDS. AND DIAGRAMS

E0.2

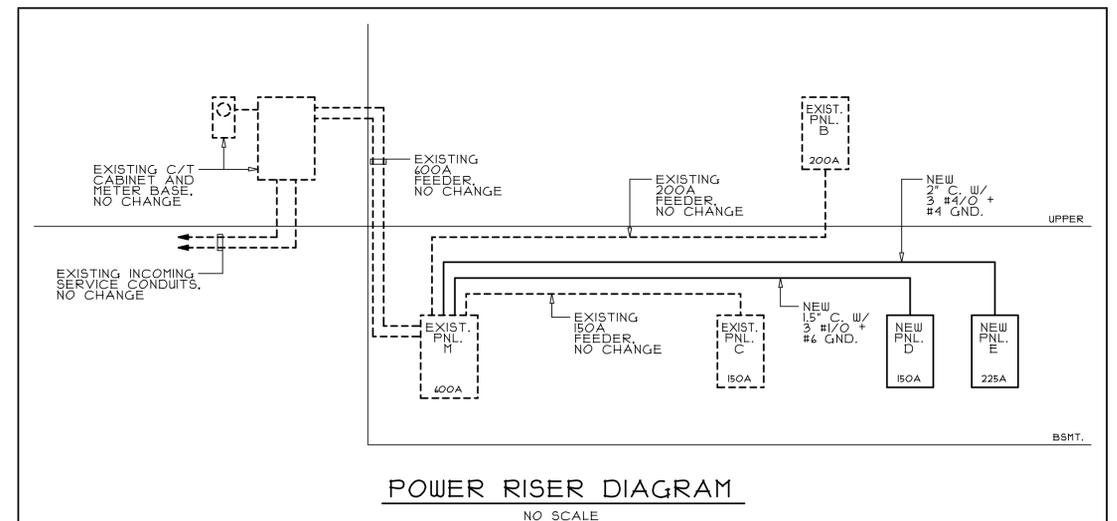
EXISTING PANEL M									
VOLTS: 120/240		PHASE: 1 WIRE: 3		MOUNTING: SURFACE					
AMPS: 600		MAIN: 600A CIRCUIT BREAKER							
BRKR		CKT	CKT	DESCRIPTION		BRKR			
P	A	NO.	NO.	A	B	A	P	A	P
2	200	1	2						
--	--	3	4						
2	150	5	6	PANEL D (1)		150	2		
--	--	7	8						
2	200	9	10						
--	--	11	12						
2	200	13	14						
--	--	15	16						
2	225	17	18						
--	--	19	20						
(1) - NEW CIRCUIT, NEW CIRCUIT BREAKER									
EATON PRL3A SEE SPEC. NOTES									
LOAD SUMMARY									
		LOAD (KW)							
EXISTING SERVICE PEAK DEMAND (OBTAINED FROM POWER COMPANY AND ENTERED AT 125%)		66.00							
REMOVED RECEPTACLES		-3.10							
REMOVED LIGHTS		-1.00							
REMOVED HVAC		-14.60							
REMOVED MISC. EQUIPMENT		-1.00							
REMOVED LIFT (AS ADD ALTERNATE)		-1.80							
NEW LOADS IN EXISTING PANELS:									
RECEPTACLES		0.80							
LIGHTS		4.90							
WATER HEATERS		8.20							
MISC. EQUIPMENT		3.70							
ELEVATOR (AS ADD ALTERNATE)		4.80							
NEW PANEL D		22.22							
NEW PANEL E		50.26							
TOTAL		139.18							
AT 240V-1PHASE =		580 AMPS							

EXISTING PANEL B											
VOLTS: 120/240		PHASE: 1		WIRES: 3		MOUNTING: FLUSH					
AMPS: 200		MAIN: LUGS ONLY									
BRKR		CIRCUIT		PHASE LOAD		CIRCUIT		DESCRIPTION		BRKR	
P	A	AMPS	DEMAND	A	B	NO.	DEMAND	AMPS		A	P
2	30			1	20.0	2	100%	0.0	SPARE	60	2
--	--	20.0	100%	3	20.0	4	100%	0.0	--	--	--
2	50			5	0.0	6	100%	0.0	SPARE	50	2
--	--	0.0	100%	7	0.0	8	100%	0.0	--	--	--
2	30			9	12.5	10	125%	10.0	SANCTUARY LIGHTS (3)	60	2
--	--	0.0	100%	11	12.5	12	125%	10.0	--	--	--
2	30			13	34.2	14	100%	17.1	TANKLESS WATER HEATER (1)	30	2
--	--	17.1	100%	15	34.2	16	100%	17.1	--	--	--
2	20			17	6.0	18	100%	6.0	HALLWAY RECEPTACLES	20	1
--	--	0.0	100%	19	6.0	20	100%	6.0	CIRCUIT	20	1
1	20			21	10.0	22	125%	8.0	HALLY LTS./RESTRM. EX. FANS	20	1
1	20			23	3.0	24	100%	3.0	KITCHEN COUNTER RECEPTS.	20	1
1	20			25	10.0	26	125%	8.0	YOUTH BASEMENT LTS. & RECS.	20	1
1	20			27	3.0	28	100%	3.0	KITCHEN COUNTER RECEPTS.	20	1
1	20			29	13.0	30	100%	10.0	PUMP	20	1
1	20			31	10.0	32	100%	5.0	ALARM	20	1
1	20			33	8.8	34	125%	3.0	ELEVATOR LIGHTS (4)	20	1
1	20			35	12.0	36	100%	9.0	SANCTUARY MONITORS (1)	20	1
2	20			37	0.0	38	100%	0.0	SPARE	20	1
--	--	0.0	100%	39	0.0	40	100%	0.0	CIRCUIT	20	1
1	20			41	0.0	42	100%	0.0	SPARE	20	1
				114.5		102.7					
(1) - NEW CIRCUIT, EXISTING CIRCUIT BREAKER (2) - NEW CIRCUIT, NEW CIRCUIT BREAKER (3) - REPLACE EXISTING CIRCUIT BREAKER WITH NEW GFI TYPE (3) - UNDER ADD ALTERNATE - NEW CIRCUIT, EXISTING CIRCUIT BREAKER UNDER BASE BID - EXISTING CIRCUIT TO REMAIN (4) - UNDER ADD ALTERNATE - NEW CIRCUIT, NEW CIRCUIT BREAKER UNDER BASE BID - EXISTING LOAD REMOVED FROM CIRCUIT RENDERING IT A SPARE 2-60A C/B (5) - UNDER ADD ALTERNATE - EXISTING LOAD REMOVED FROM CIRCUIT RENDERING IT SPARE. UNDER BASE BID - CIRCUIT SERVING EXISTING LIFT TO REMAIN											
EATON PRL1A SEE SPEC. NOTES											

NEW PANEL D											
VOLTS: 120/240		PHASE: 1		WIRES: 3		MOUNTING: SURFACE					
AMPS: 150		MAIN: LUGS ONLY									
BRKR		CIRCUIT		PHASE LOAD		CIRCUIT		DESCRIPTION		BRKR	
P	A	AMPS	DEMAND	A	B	NO.	DEMAND	AMPS		A	P
2	40			1	31.0	2	100%	6.0	BASEMENT RECEPTACLES	20	1
--	--	25.0	100%	3	31.0	4	100%	6.0	BASEMENT RECEPTACLES	20	1
1	20			5	10.9	6	100%	9.0	UPPER FLR. RECEPTACLES	20	1
1	20			7	15.0	8	100%	3.0	SANCT. PLATFORM RECEPTS. (1)	20	1
1	20			9	10.5	10	100%	4.5	SANCT. PLATFORM RECEPTS. (1)	20	1
1	15			11	6.0	12	100%	3.0	SANCT. PLATFORM RECEPTS. (1)	20	1
1	15			13	13.4	14	125%	8.3	ATTIC LIGHTS/RECEPTACLES	20	1
1	20			15	8.6	16	125%	4.5	LIGHTS	20	1
1	20			17	7.0	18	100%	2.0	CONDENSATE PUMP	20	1
1	20			19	17.0	20	100%	12.0	SEWAGE PUMP	20	1
1	20			21	10.8	22	100%	2.8	DH-1	20	1
1	20			23	8.0	24	100%	0.0	SPARE	20	1
1	20			25	8.0	26	100%	0.0	SPARE	20	1
1	20			27	8.0	28	100%	0.0	SPARE	20	1
1	20			29	0.0	30	100%	0.0	SPARE	20	1
1	20			31	0.0	32	100%	0.0	SPARE	20	1
1	20			33	0.0	34	100%	0.0	SPARE	20	1
1	20			35	0.0	36	100%	0.0	SPARE	20	1
1	--			37	0.0	38	100%	0.0	PROVISION	--	1
1	--			39	0.0	40	100%	0.0	PROVISION	--	1
1	--			41	0.0	42	100%	0.0	PROVISION	--	1
				91.6		93.6					
(1) - GFI CIRCUIT BREAKER (2) - CIRCUIT RELOCATED FROM EXISTING PANEL IN SANCTUARY BEING REMOVED. NEW CIRCUIT SHALL BE SPARE IF EXISTING CIRCUIT IS NO LONGER IN USE											
SQUARE D NO OR EQUAL SEE SPEC. NOTES											

EXISTING PANEL C											
VOLTS: 120/240		PHASE: 1		WIRES: 3		MOUNTING: SURFACE					
AMPS: 150		MAIN: LUGS ONLY									
BRKR		CIRCUIT		PHASE LOAD		CIRCUIT		DESCRIPTION		BRKR	
P	A	AMPS	DEMAND	A	B	NO.	DEMAND	AMPS		A	P
2	40			1	27.0	2	100%	9.0	SANCTUARY MONITORS (1)	20	1
--	--	18.0	100%	3	22.5	4	100%	4.5	OLD FELLOWSHIP RECEPTACLES	20	1
2	60			5	27.5	6	100%	4.5	OLD FELLOWSHIP RECEPTACLES	20	1
--	--	23.0	100%	7	29.3	8	125%	5.0	OLD FELLOWSHIP LIGHTS	15	1
1	20/20			9	9.0	10	100%	3.0	KITCHEN ISLAND RECEPTACLES	20	1
1	15			11	11.5	12	65%	8.0	WARMER	20	1
1	15			13	9.3	14	100%	3.0	KITCHEN COUNTER RECEPTACLES	20	1
1	15			15	10.2	16	65%	8.0	DISHWASHER	20	1
1	15			17	8.3	18	65%	5.0	REFRIGERATOR	20	1
2	30			19	18.0	20	100%	3.0	KITCHEN COUNTER RECEPTACLES	20	1
--	--	15.0	100%	21	18.0	22	100%	3.0	KITCHEN COUNTER RECEPTACLES	20	1
1	20			23	11.0	24	100%	5.0	CIRCUIT	20	1
1	20			25	16.7	26	65%	18.0	LEFT RANGE	50	2
1	20			27	16.7	28	65%	18.0	--	--	--
1	20			29	8.2	30	65%	8.0	ICE MAKER	20	1
1	15			31	8.3	32	65%	5.0	FREEZER	20	1
1	20			33	6.9	34	65%	6.0	LEFT MICROWAVE	15	1
1	20			35	8.9	36	65%	6.0	RIGHT MICROWAVE	15	1
1	--			37	5.0	38	100%	5.0	FWC	20	1
2	50			39	11.7	40	100%	0.0	PROVISION	--	1
--	--	18.0	65%	41	11.7	42	100%	0.0	PROVISION	--	1
				147.5		148.0					
(1) - NEW CIRCUIT, NEW CIRCUIT BREAKER											
SQUARE D QO SEE SPEC. NOTES											

NEW PANEL E											
VOLTS: 120/240		PHASE: 1		WIRES: 3		MOUNTING: SURFACE					
AMPS: 225		MAIN: LUGS ONLY									
BRKR		CIRCUIT		PHASE LOAD		CIRCUIT		DESCRIPTION		BRKR	
P	A	AMPS	DEMAND	A	B	NO.	DEMAND	AMPS		A	P
2	40			1	86.0	2	100%	56.9	AH-1	60	2
--	--	29.1	100%	3	86.0	4	100%	56.9	--	--	--
2	40			5	58.5	6	100%	29.4	OHP-1	50	2
--	--	29.1	100%	7	58.5	8	100%	29.4	--	--	--
2	40			9	38.3	10	100%	9.2	F-1	15	1
--	--	29.1	100%	11	38.3	12	100%	9.2	F-2	15	1
2	30			13	26.8	14	100%	9.2	F-3	15	1
--	--	17.6	100%	15	26.4	16	100%	8.8	F-4	15	1
1	20			17	0.0	18	100%	0.0	SPARE	20	1
1	20			19	0.0	20	100%	0.0	SPARE	20	1
1	20			21	0.0	22	100%	0.0	SPARE	20	1
1	20			23	0.0	24	100%	0.0	SPARE	20	1
1	--			25	0.0	26	100%	0.0	PROVISION	--	1
1	--			27	0.0	28	100%	0.0	PROVISION	--	1
1	--			29	0.0	30	100%	0.0	PROVISION	--	1
				209.6		209.2					
SQUARE D NO OR EQUAL SEE SPEC. NOTES											



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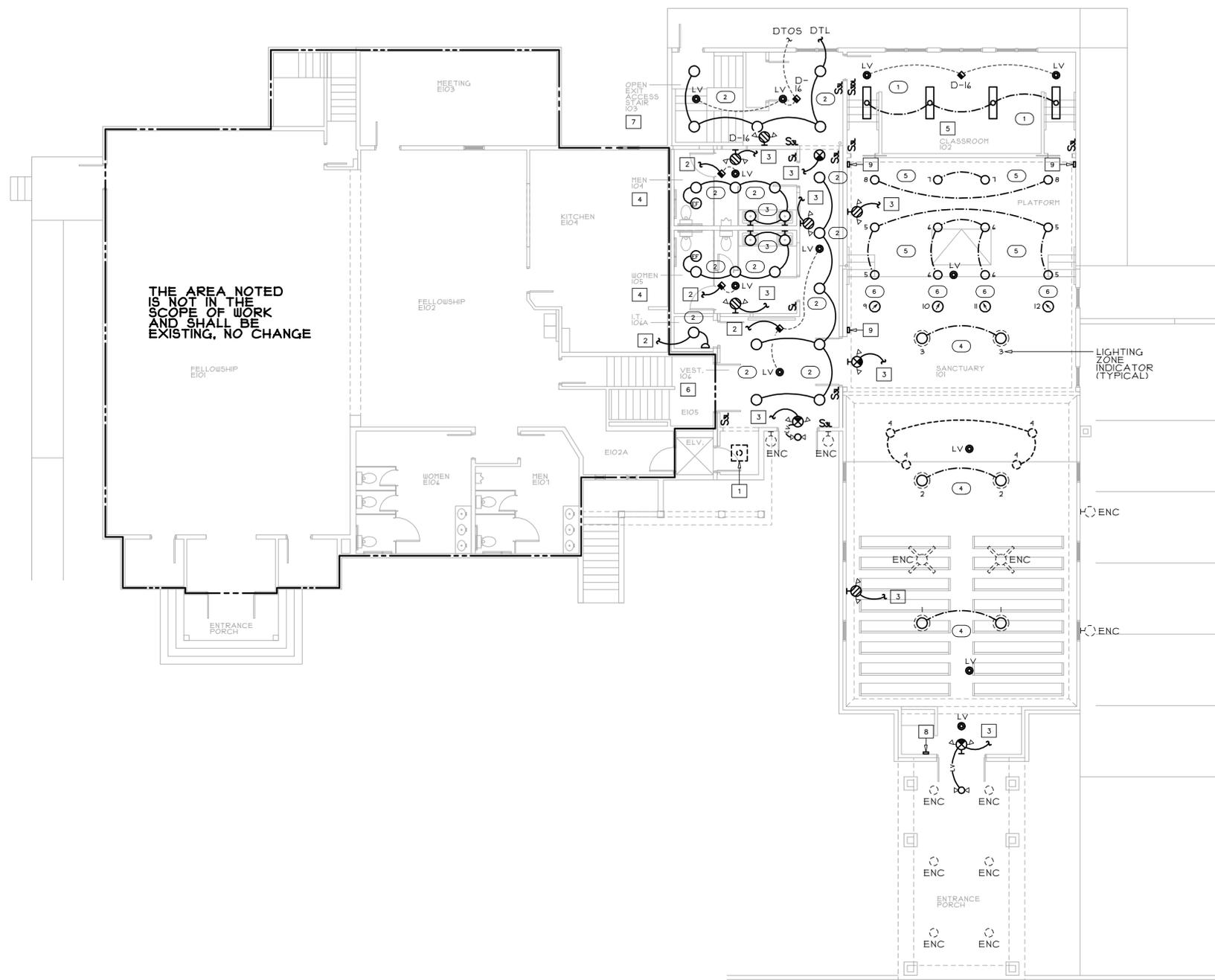
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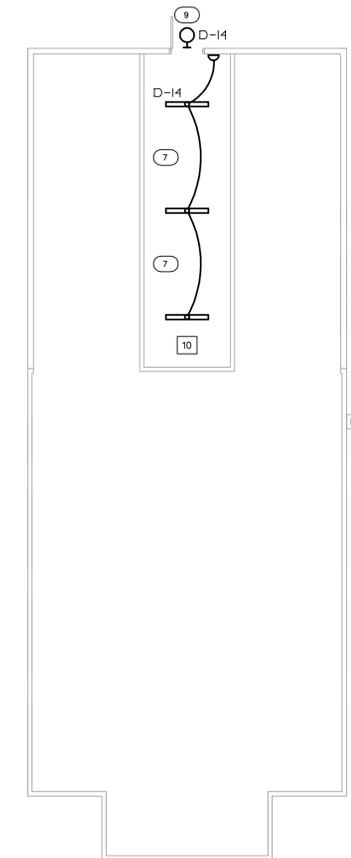
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MICHAEL DAVID IRWIN
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11/25/25
PROFESSIONAL ENGINEER

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



ATTIC LIGHTING PLAN
SCALE: 1/8" = 1'-0"

KEYED DRAWING NOTES

<p>1. UNDER ELEVATOR ADD ALTERNATE. REMOVE EXISTING LIGHT FIXTURE FROM ANY LOCAL SWITCHING AND RE-WIRE FIXTURE TO BE AN UNSWITCHED NIGHT LIGHT. VERIFY ALL REQUIREMENTS.</p> <p>2. CONNECT TO THE CIRCUIT SERVING THE EXISTING LIGHTS IN THE AREA BEING REMOVED. VERIFY REQUIREMENTS. NEW CIRCUIT LOAD IS LESS THAN EXISTING.</p> <p>3. CONNECT TO THE CIRCUIT SERVING THE EXISTING LIGHTS IN THE AREA BEING REMOVED AHEAD OF ANY LOCAL SWITCHING. VERIFY REQUIREMENTS.</p> <p>4. THE SWITCHED GROUP OF LIGHTS IN THE RESTROOM SHALL BE RUN THRU A POWER PACK TIED TO THE CEILING MOUNTED OCCUPANCY SENSORS AND LOW VOLTAGE SWITCH. COORDINATE ALL REQUIREMENTS WITH THE MANUFACTURERS AND PROVIDE ALL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION.</p> <p>5. THE SWITCHED GROUP OF LIGHTS IN THE CLASSROOM SHALL BE RUN THRU A POWER PACK TIED TO THE CEILING MOUNTED OCCUPANCY SENSORS, LOW VOLTAGE 3-WAY DIMMER SWITCH AND LOW VOLTAGE 3-WAY SWITCH. COORDINATE ALL REQUIREMENTS WITH THE MANUFACTURERS AND PROVIDE ALL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION.</p> <p>6. THE SWITCHED GROUP OF LIGHTS IN THE VESTIBULE AND CORRIDOR SHALL BE RUN THRU A POWER PACK TIED TO THE CEILING MOUNTED OCCUPANCY SENSORS AND LOW VOLTAGE 3-WAY SWITCHES. COORDINATE ALL REQUIREMENTS WITH THE MANUFACTURERS AND PROVIDE ALL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION.</p>	<p>7. THE SWITCHED GROUP OF LIGHTS IN THE ACCESS STAIR SHALL BE RUN THRU A POWER PACK TIED TO THE CEILING MOUNTED OCCUPANCY SENSORS AND LOW VOLTAGE 3-WAY SWITCHES ON THE BASEMENT AND UPPER FLOORS. COORDINATE ALL REQUIREMENTS WITH THE MANUFACTURERS AND PROVIDE ALL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION.</p> <p>8. ACUITY CONTROLS LIGHT NITS OR EQUAL TOUCHSCREEN WALL SWITCH AT 48" AFF. CONNECT TO ALL DIMMED LIGHTING ZONES IN SANCTUARY 101 AND POWER PACKS IN STORAGE BOI AS DIRECTED BY THE MANUFACTURER.</p> <p>9. ACUITY CONTROLS LIGHT nPODMA OR EQUAL WALL SWITCH AT 48" AFF. CONNECT TO LIGHTING ZONES #1, #2 AND #3 IN SANCTUARY 101 AND THE ASSOCIATED POWER PACKS IN STORAGE BOI AS DIRECTED BY THE MANUFACTURER.</p> <p>10. COORDINATE LOCATION OF LIGHTS IN THE SPACE WITH MECHANICAL EQUIPMENT, DUCTWORK AND PIPING.</p>
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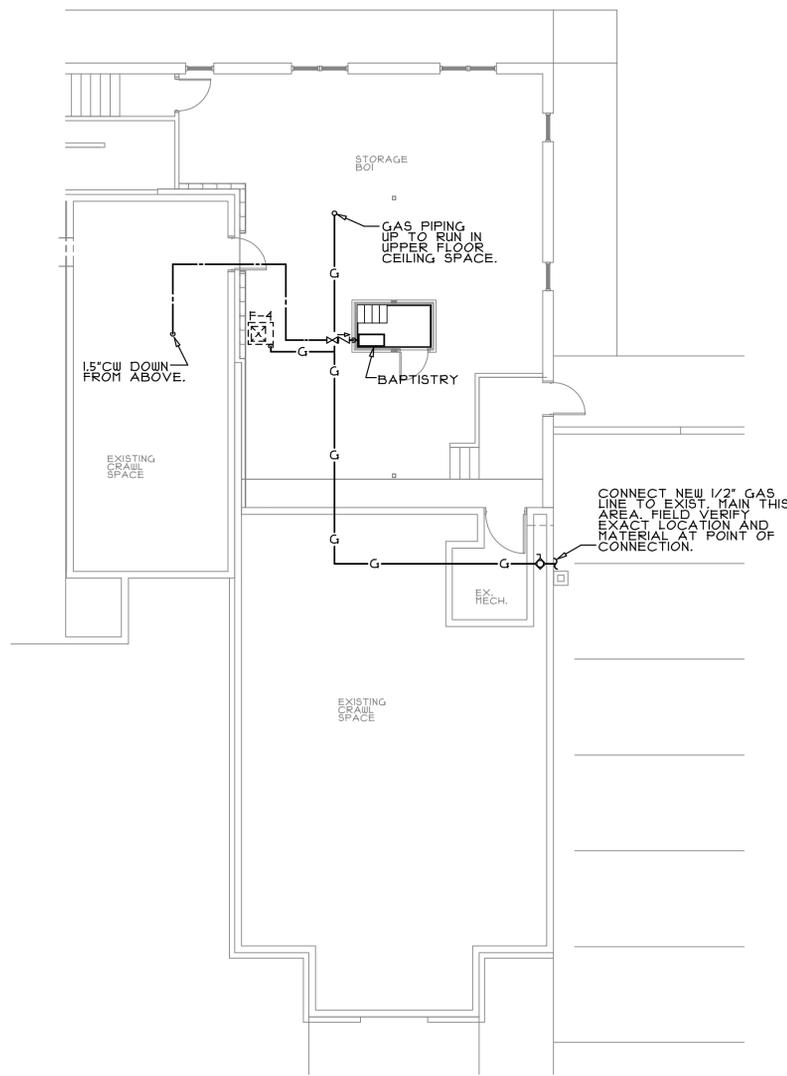
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11/25/25
PROFESSIONAL ENGINEER

REVISIONS:

DRAWN: RBP
CHECKED: WFS
SCALE: 1/8" = 1'-0"
DATE: 11-25-25
PROJECT #: 25117

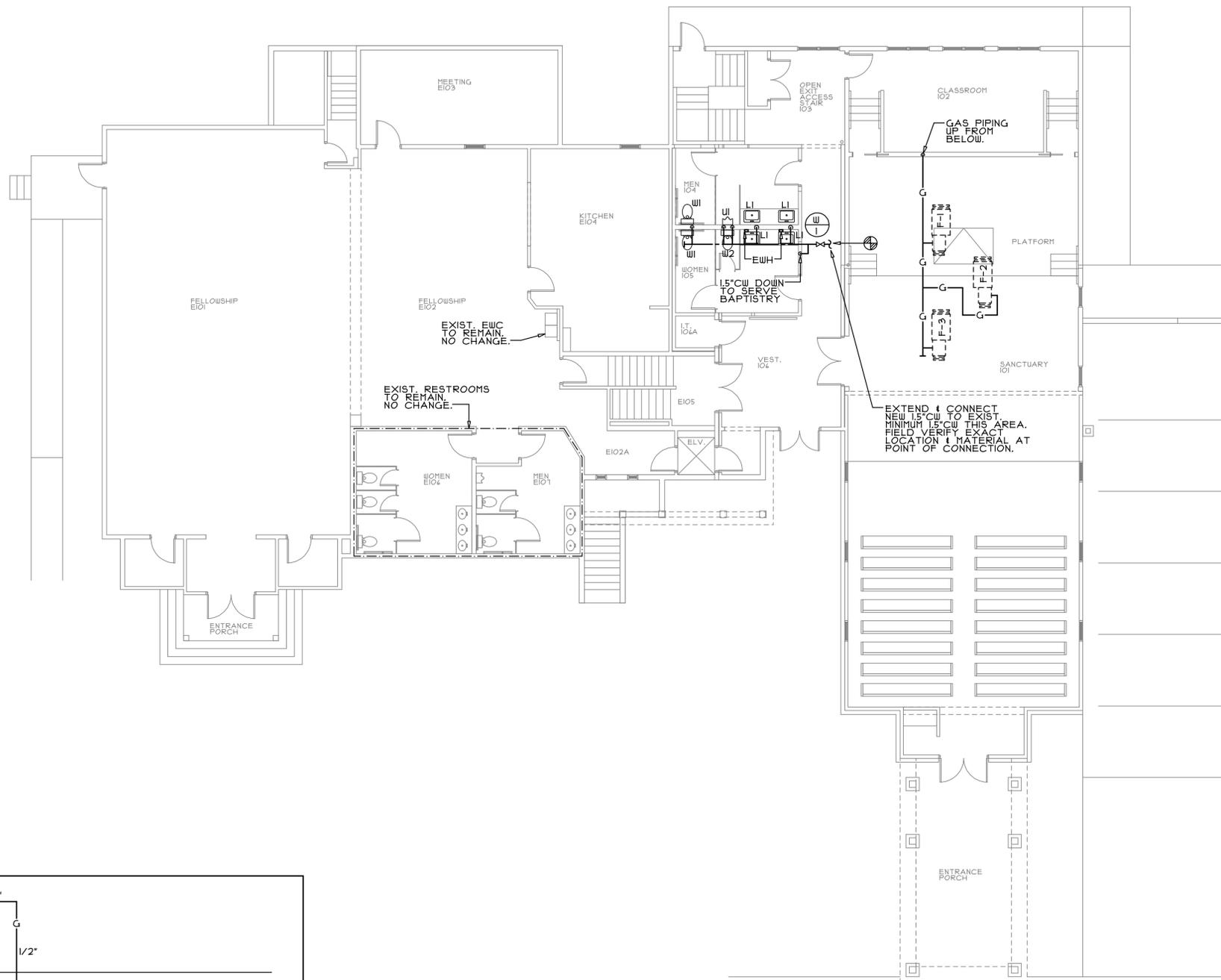
**UPPER FLR. & ATTIC
LIGHTING PLANS**

E2.2



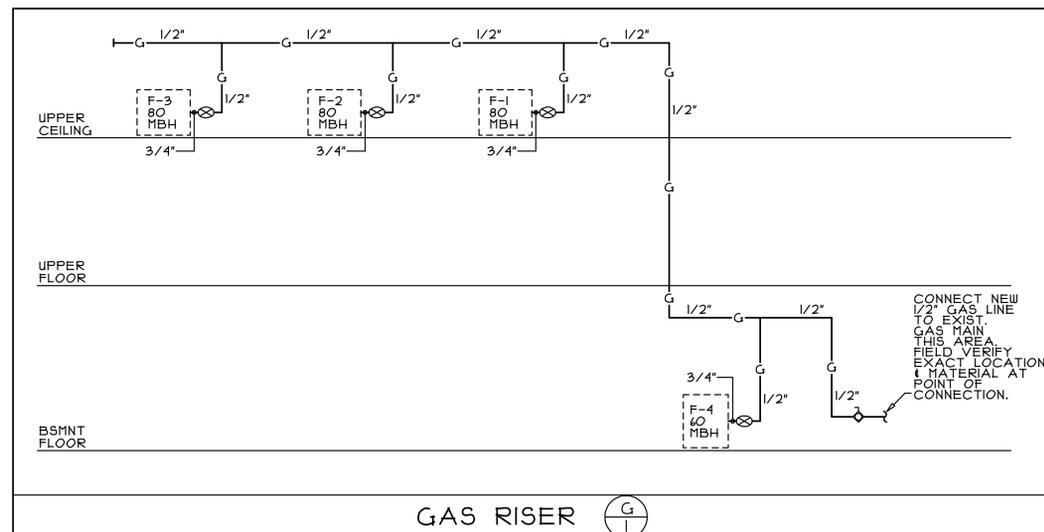
PARTIAL BASEMENT WATER/GAS PLAN

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



UPPER FLOOR WATER/GAS PLAN

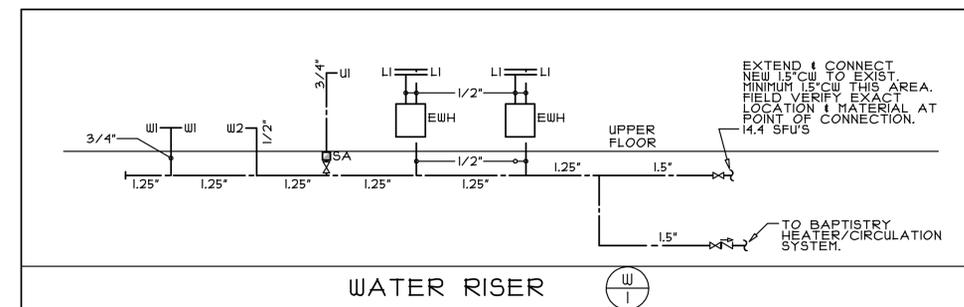
SCALE: 1/8" = 1'-0"



GAS RISER

NOTES:

3. THE MAXIMUM TOTAL DEVELOPED LENGTH OF PIPE IS LESS THAN 125 FEET.
4. THE TOTAL CONNECTED GAS LOAD FOR THE BUILDING IS 300,000 BTU.
5. PIPE SIZES ARE BASED ON IFGC-2021 TABLE 402.4(2).
6. SERVICE PRESSURE AT EXIST. REGULATOR IS 2 PSI.



WATER RISER

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REVA, VIRGINIA 22735



REVISIONS:

DRAWN: WLA
CHECKED: WFS
SCALE: 1/8" = 1'-0"
DATE: 11-25-25
PROJECT #: 25117

UPPER FLOOR WATER/
GAS PLAN & RISERS

P2.1