

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE RECD SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES. FOR THE ISSUANCE OF CONSTRUCTION PERMITS, THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS, ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING THE ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

MISC. NOTES

THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.

THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.

AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.

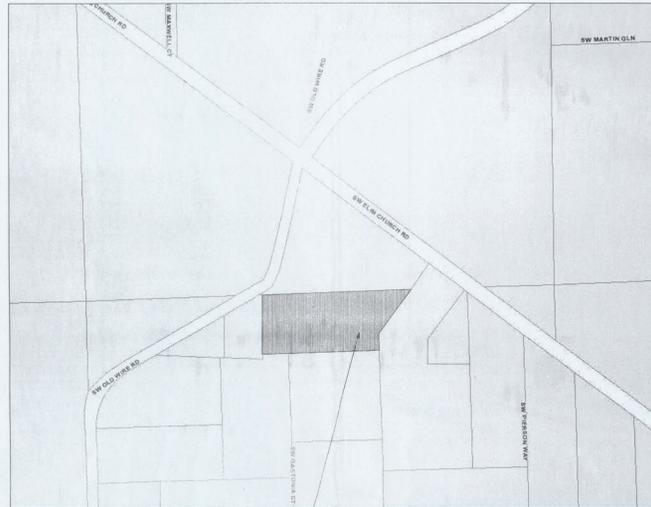
THE OWNER SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.

THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.

ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.

ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.

ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.



PROJECT LOCATION

ELIM BAPTIST CHURCH RESTROOM ADDITION

NOTE:
BUILDING USE, CLASSIFICATION, AND OCCUPANCY SHALL NOT BE AFFECTED BY THE RENOVATIONS OF THIS PLAN SET.

ABBREVIATIONS

| | | |
|---------------------------|---------------------------------|-------------------------------|
| A.B. Anchor Bolt | Flr. Floor | Plt. Ht. Plate Height |
| Abv. Above | Fdn. Foundation | Plt. Sh. Plant Shelf |
| A/C Air-Conditioner | F.S. Floor System | PSF Pounds per square foot |
| Adj. Adjustable | F.P. Fireplace | P.T. Pressure Treated |
| A.F. Above Finished Floor | FL Foot / Foot | Pwd. Powder Room |
| A.H.U. Air Handler Unit | Fg. Footing | Rad. Radius |
| A.L.T. Atticmate | FX Fixed | Ref. Refrigerator |
| B.C. Base Cabinet | Galv. Galvanized | Req'd. Required |
| B.F. Bifold Door | G.C. General Contractor | Rm. Room |
| Bk. Sh. Book Shelf | G.F.I. Ground Fault Interrupter | Rnd. Round |
| Bm. Beam | G.T. Gilder Truss | RSH Rod and Shelf |
| BOT Bottom | Hdr. Header | S.D. Smoke Detector |
| B.P. Bypass door | Hgt. Height | S.F. Square Ft. |
| Brg. Bearing | HB Hose Bibb | Sh. Shelves |
| CR. Circle | Int. Interior | SHT Sheet |
| Clg. Ceiling | K/Wall Kneewall | S.L. Side Lights |
| Col. Column | K.S. Knee Space | S.P.F. Spruce Pine Fir |
| Comp. A/C Compressor | Laun. Laundry | Sq. Square |
| C.T. Ceramic Tile | Lav. Lavatory | S.Y.P. Southern Yellow Pine |
| D. Dryer | L.F. Linear Ft. | Temp. Tempered |
| Dec. Decorative | Laundry Tub | Thick. Thick |
| Dei. Dedicated Outlet | Mas. Masonry | T.O.B. Top of Block |
| Dbl. Double | Max. Maximum | T.O.M. Top of Masonry |
| Dis. Diameter | M.C. Medicine Cabinet | T.O.P. Top of Plate |
| Disp. Disposal | MDP Master Distribution Panel | Trans. Transom Window |
| Dist. Distance | Mfg. Manufacturer | Typ. Typical |
| D.S. Drawer Stack | Micro. Microwave | UCL Under Cabinet Lighting |
| D.V. Dryer Vent | Min. Minimum | U.N.O. Unless Noted Otherwise |
| D.W. Dishwasher | M.L. Microlam | VB Varsity Base |
| Ea. Each | Mir. Mirror | VB Vertical |
| E.W. Each Way | Mono. Monolithic | V.L. Ventsilam |
| Elec. Electrical | N.T.S. Not to Scale | VTR Vent through Roof |
| Elev. Elevation | Opp. Opening | Washer |
| Ext. Exterior | Opt. Optional | W/ With |
| Exp. Expansion | P.C. Piece | WC Water Closet |
| F.B.C. Florida Bldg. Code | Ped. Pedestal | W.A. Wedge Anchor |
| Fin. Fr. Finished Floor | Pan. Panellum | Wd. Wood |
| F.G. Fixed Glass | P.L.F. Pounds per linear foot | WP Water Proof |

INDEX OF SHEETS

| SHEET | DESCRIPTION |
|--|---------------------------|
| A-1 | COVER SHEET |
| A-2 | GENERAL PROJECT NOTES |
| A-3 | FLOOR PLAN |
| A-4 | FOUNDATION AND ELEVATIONS |
| A-5 | ROOF AND DETAILS |
| A-6 | PLUMBING PLAN |
| A-7 | ELECTRICAL PLAN |
| HVAC LAYOUT, LOAD CALC., AND ENERGY CALC. TO BE PROVIDED BY HVAC CONTRACTOR. | |

REVISIONS

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|
| | | | | | |



CERTIFICATE OF AUTHORIZATION
NO. 28022

P.O. BOX 970
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DRAWN BY:
TM

APPROVED BY:
BC

**ELIM BAPTIST CHURCH
RESTROOM ADDITION**

COVER SHEET

ESC PROJECT NO.:
2014-009

SHEET:
A-1



GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER PROJECT DRAWINGS BY THE CONTRACTOR. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT LOCAL BUILDING CODE. THESE DRAWINGS ARE NOT TO BE USED IN LIEU OF SHOP DRAWINGS AND/OR MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO ADJACENT BUILDINGS, UTILITIES, OR OTHER PROPERTY. THIS REQUIREMENT IS PARTICULARLY IMPORTANT DURING FOUNDATION INSTALLATION.
- THE GENERAL CONTRACTOR IS ADVISED TO CONSIDER PERFORMING PHOTOGRAPHIC SURVEYS AND OTHER DOCUMENTATION OF THE CONDITION OF ADJACENT BUILDINGS AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL OBTAIN COPIES OF THE LATEST CONTRACT DOCUMENTS, INCLUDING ALL ADDENDA, AND PROVIDE THE RELEVANT PORTIONS TO ALL SUB-CONTRACTORS AND SUPPLIERS PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION AND ERECTION OF STRUCTURAL MEMBERS.
- THE GENERAL CONTRACTOR SHALL COMPARE AND COORDINATE THE DRAWINGS OF ALL DISCIPLINES AND REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS TO THE ENGINEER.
- DETAILS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SEE DETAIL TITLES FOR APPLICABILITY OF A PARTICULAR DETAIL. TYPICAL DETAILS SHALL APPLY WHETHER OR NOT THEY ARE SPECIFICALLY KEYS AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.
- WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS THE STRUCTURE REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

RESPONSIBILITY:

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOBS SAFETY.
- THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROCEDURES, OR WITH THE EXCEPT OF THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PERIODIC SITE OBSERVATION VISITS MAY BE PROVIDED BY THE STRUCTURAL ENGINEER. THE SOLE PURPOSE OF THESE OBSERVATIONS IS TO REVIEW THE GENERAL PERFORMANCE OF THE CONSTRUCTION WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED OBSERVATIONS SHOULD NOT BE CONSTRUED AS CONTINUOUS OR EXHAUSTIVE TO VERIFY THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

FOUNDATIONS:

- ALL VEGETATION, TOPSOILS, ROOTS AND ORGANIC ZONES SHALL BE STRIPPED AND REMOVED FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 10 FEET BEYOND THE EXTERIOR OF BUILDING FOUNDATION LIMITS. THE DEPTH OF STRIPPING SHALL BE THAT REQUIRED TO REMOVE SIGNIFICANT ROOT ZONES, SMALL TREE STUMPS AND OTHER UNACCEPTABLE MATERIALS, BUT IN NO CASE LESS THAN 6 INCHES.
- EXCAVATIONS FOR LARGE STUMPS, ABANDONED UTILITIES, UNDERGROUND TANKS, ETC. SHALL BE BACKFILLED IN LAYERS WITH COMPACTION AND TESTING OF EACH LAYER AS DESCRIBED FOR PLACEMENT AND COMPACTION OF FILL MATERIAL. USE LOOSE BACKFILL LAYERS THICKNESS APPROPRIATE FOR THE SIZE OF COMPACTOR BEING USED.
- THE EXPOSED SOILS AT THE STRIPPED SURFACE WITHIN AND TO A POINT 5 FEET OUTSIDE THE BUILDING CONSTRUCTION AREA SHALL BE COMPACTED WITH OVERLAPPING PASSES WITH A LIGHT WEIGHT VIBRATORY DRUM ROLLER. DENSITIES OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) SHALL BE UNIFORMLY OBTAINED TO A DEPTH OF AT LEAST 24 INCHES BELOW THE COMPACTED SURFACE. REGARDLESS OF THE DEGREE OF COMPACTION ACHIEVED, A MINIMUM OF EIGHT COMPLETE COVERSAGES SHALL BE MADE WITHIN THE BUILDING AREA. THE ROLLER COVERSAGES SHALL BE DIVIDED EVENLY INTO TWO PERPENDICULAR DIRECTIONS. THE CONTRACTOR IS ADVISED NOT TO USE THE VIBRATORY MODE OF COMPACTORS IN CLOSE PROXIMITY TO EXISTING STRUCTURES. THE CONTRACTOR SHALL COORDINATE COMPACTOR EFFORTS AND FOUNDATION INSTALLATIONS TO INSURE THAT NO DAMAGE OCCURS TO ADJACENT STRUCTURES.
- AFTER COMPLETION OF DENSIFICATION OF EXISTING SOILS, STRUCTURAL FILL SHALL THEN BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS WHEN USING THE ROLLER PREVIOUSLY DESCRIBED. EACH LIFT SHALL BE THOROUGHLY COMPACTED WITH THE VIBRATORY ROLLER UNTIL DENSITIES EQUIVALENT TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY ARE UNIFORMLY OBTAINED. STRUCTURAL FILL SHALL CONSIST OF AN INORGANIC, NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 10 PERCENT MATERIAL PASSING THE NO. 200 MESH SIEVE, A RELATIVELY CLEAN SAND WITH A UNIFIED SOIL CLASSIFICATION OF SP OR SP-SM.
- FOOTINGS AND MAT HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 400 PSF. THE UPPER 12 INCHES OF SANDY BEARING SOIL FROM FOOTING EXCAVATION BOTTOMS SHALL BE COMPACTED TO DENSITIES EQUIVALENT TO 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. COMPACTION, OR RECOMPACTION OF THE FOOTING EXCAVATION BEARING LEVEL, SOILS LOOSENED BY THE EXCAVATION PROCESS, SHALL BE ACHIEVED BY MAKING SEVERAL PASSES WITH A RELATIVELY LIGHTWEIGHT, WALKBEHIND VIBRATORY SLED OR ROLLER COMPACTOR.
- UNLESS NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER COLUMNS, PIERS AND WALLS.
- SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) TO A DEPTH OF AT LEAST 12 INCHES. INTERIOR SLABS-ON-GRADE SHALL BE CAST OVER A VAPOR RETARDER. SEE SPECIFICATIONS.
- RETAINING WALLS HAVE BEEN DESIGNED FOR AN ASSUMED LATERAL EARTH PRESSURE OF 110 PSF PER FOOT OF DEPTH AND AN ASSUMED SURCHARGE OF 200 PSF. DESIGN ASSUMES WELL GRADED AND DRAINED BACKFILL.

AS-BUILT DRAWING REQUIREMENTS:

- ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELECTRIC PLAN, ADDITIONS, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE WITH ALL CIRCUITS IDENTIFIED WITH CIRCUIT NUMBER, DESCRIPTION, AND BREAKER, AND ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIAGRAM SHALL INCLUDE WIRE SIZES/TYPES AND EQUIPMENT TYPE WITH RATINGS AND LOADS.
- PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM.

CONCRETE MASONRY:

- SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-90 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1900 P.S.I. (NET AREA).
- MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.
- PLAN END TWO CELLED UNITS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED AND FILLED. WEB SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDDED IN MORTAR.
- FILL CELLS AS NOTED ON DRAWINGS WITH 3000 PSI GROUT, OR GROUT CONFORMING TO ASTM C-476, SPECIFICALLY DESIGNED FOR FILLING OF CELLS.
- IN SPLICING VERTICAL BARS, LAP ENDS, PLACE IN CONTACT AND WIRE-TIE TOGETHER OR USE BAR POSITIONERS. LAP BARS SHAVE BY SIDE IN THE PLANE OF THE WALL TO MAINTAIN PROPER COVER.
- SEE PRIMARY CODES, SPECIFICATIONS AND DRAWINGS FOR GROUTING PROCEDURES.
- INSTALLATION OF CONCRETE MASONRY SHALL BE COMPATIBLE WITH ALL APPLIED FINISHES SUCH AS STUCCO OR PAINT; DO NOT SPONGE WALLS WITHOUT PROPER CLEANING COMPATIBLE WITH FINISHES.
- PROVIDE GALVANIZED WIRE TYPE HORIZONTAL, JOINT REINFORCING AT 16" O.C. (MAX) AND AS INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE HOT DIPPED GALVANIZED HUR ON ALL EXTERIOR WALLS. IN ADDITION TO SCHEDULED OR DETAILED LINTEL AND SILL REINFORCING, PROVIDE TWO LAYERS OF HUR AT 8 INCHES ON CENTER ABOVE AND BELOW ALL LINTELS AND SILLS WHICH SPAN MORE THAN 12 INCHES. EXTEND ABOVE HUR 24 INCHES BEYOND THE OPENING. JAMBS EXCEPT AT WCJ.
- MASONRY BOND BEAMS AND CONCRETE BEAMS CAST ON MASONRY WALLS SHALL BE CONSTRUCTED SO AS TO KEY AND BOND TO BLOCK CELLS. THE USE OF BUILDING PAPER OR SHEET PLASTIC TO CLOSE VOIDS BELOW BEAMS IS NOT ALLOWED DUE TO BREAKAGE OF MORTAR BOND.

11. SEE ENGINEER'S DRAWINGS FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.

- WALL CONTROL JOINTS (WCJ):**
- WALL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS BUT UNLESS NOTED OTHERWISE AT A SPACING NOT GREATER THAN 24' O.C.
 - HORIZONTAL JOINT REINFORCING SHALL BE INTERRUPTED EACH SIDE OF WALL CONTROL JOINTS.
 - WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN AN OPENING JAMB WIDTH. SEE PLANS AND/OR JAMB REINFORCING SCHEDULE FOR MINIMUM JAMB WIDTHS.
 - SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT WALL CONTROL JOINTS.
 - SEE THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

12. MASONRY WALLS SHALL BE BRACED EITHER BY OTHER INTERSECTING WALLS OR BY ANCHORAGE OR BRACING TO THE STRUCTURE ABOVE, OR TO ADJACENT WALLS, AS DETAILED ON THE STRUCTURAL DRAWINGS.

13. BLOCK LINTELS SHALL BE SPECIALLY FORMED J-SHAPED LINTEL OR LOW WEB LINTEL UNITS WITH REINFORCING BARS, OR PRECAST LINTELS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE AND OTHER APPLIED LOADS.

14. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUSTIARLY BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF LATERAL SUPPORT BY CONNECTIONS AT FLOORS OR ROOF FRAMING LEVELS.

15. QUALITY ASSURANCE: ALL REINFORCED MASONRY SHALL BE TESTED/INSPECTED IN CONFORMANCE WITH THE REFERENCED ACI 530/ASCE 5/TMS 402 CODES AND THE PROJECT SPECIFICATIONS.

16. TYPICAL SCHEDULED VERTICAL WALL REINFORCING SIZE AND SPACING SHALL ALSO BE COMPACTED ABOVE AND BELOW ALL OPENINGS.

REINFORCING STEEL:

- REINFORCING STEEL: ASTM A 615, GRADE 60.
- WELDED WIRE FABRIC: ASTM A 185 (FLAT SHEET), MINIMUM YIELD STRENGTH OF 70,000 PSI.
- MINIMUM REINFORCING STEEL CLEAR COVER (I.N.O.):
 - CONCRETE CAST DIRECTLY AGAINST EARTH 3"
 - INTERIOR SLABS 1"
 - INTERIOR BEAMS 1-1/2" TO TIES
 - SLABS ON GRADE 1-1/2" FROM TOP
- WHERE REINFORCING BARS ARE NOTED AS CONTINUOUS, THE FOLLOWING SHALL BE COMPLIED WITH:
 - THE TERMINATION OF ALL CONTINUOUS REINFORCING BAR RUNS SHALL BE A STANDARD HOOK UNLESS NOTED OTHERWISE.
 - SPLICING IN CONTINUOUS TOP BARS, IF REQUIRED, SHALL OCCUR OVER PARALLEL CMU WALLS OR AT THE CENTER OF THE OPENING SPAN.
 - SPLICING IN CONTINUOUS BOTTOM BARS, IF REQUIRED, SHALL OCCUR OVER CMU WALLS OR CENTERED OVER COLUMNS.
- WHERE SPICE LENGTHS ARE NOT SPECIFIED, USE 48 BAR DIAMETERS IN WELDED AND 40 BAR DIAMETERS IN CAST CONCRETE.
- REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED.
- LAP ALL WELDED WIRE FABRIC A MINIMUM DISTANCE OF ONE CROSS WIRE SPACING PLUS 2 INCHES.
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON STANDARD ACCESSORIES, HELD RIGIDLY AND ACCURATELY IN PLACE AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING PLACEMENT OF CONCRETE. SUPPORTING ACCESSORIES THAT REST ON CONCRETE SURFACES THAT WILL BE EXPOSED IN THE FINISHED STRUCTURE SHALL BE FABRICATED OF STAINLESS STEEL.
- DOWELS AND OTHER MISCELLANEOUS STEEL EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN SPECIFIED POSITION PRIOR TO PLACEMENT OF CONCRETE AND SHALL NOT BE PUSHED INTO CONCRETE FOLLOWING CONCRETE POUR.
- FOUNDATION AND GRADE BEAM REINFORCING SHALL BE SUPPORTED ON SPECIALLY CAST 3-1/2 INCH HIGH CONCRETE CHAIRS IN ACCORDANCE WITH DETAILS FURNISHED ON DRAWINGS. SLAB-ON-GRADE REINFORCING, INCLUDING WIRE FABRIC, SHALL BE SUPPORTED ON PRECAST BLOCKS OR 3000 PSI CONCRETE BRICK OF THE PROPER THICKNESS.

STRUCTURAL STEEL (SHOP DRAWINGS REQUIRED):

- SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- MATERIALS:

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|------------------------------------|----------------------------------|
| W-SHAPES & WT-SHAPES | ASTM A992 |
| S-SHAPES & SHAPES, HP-SHAPES | ASTM A36 |
| ST-SHAPES & MT-SHAPES | ASTM A36 |
| C-SHAPES & MC-SHAPES | ASTM A36 |
| ANGLES & PLATES | ASTM A36 |
| HSS SHAPES | ASTM A500, GRADE B |
| STEEL PIPE | ASTM A53 (TYPE X), GRADE B |
| HIGH STRENGTH BOLTS | ASTM A325 |
| MACHINE BOLTS | ASTM A307 |
| ANCHOR BOLTS | ASTM F1554, GRADE 55 TYPE 1(UNF) |
| WELDED HEADED STUDS | ASTM A108 |
| REINFORCED BARS | ASTM A606 |
| WELDING ELECTRODES | AWS D1.1, E70 SERIES |
- NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 5000 PSI SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO CORPS OF ENGINEERS CRD-C821, FACTORY PREMIX GROUT. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.
- ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR BOLTS OR RODS AND COLUMN BASE PLATES (PER A504).
- TEMPORARY BRACINGS OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE ERECTION PROCESS. THE CONTRACTOR MUST PROVIDE NOTIFICATION TO THE ERECTOR THAT, BY TESTING, THE FOUNDATION AND SUPPORTING WALLS HAVE ATTAINED SUFFICIENT STRENGTH TO SUPPORT THE STEEL TO BE ERECTED BEFORE ERECTING STRUCTURAL STEEL.
- PROVIDE ONE SHOP CHOP CUT PRIMER (T-T-486) ON ALL STEEL EXCEPT FOR ITEMS TO BE HOT DIPPED GALVANIZED OR SPRAY FIREPROOFED. DO NOT PAINT CONNECTIONS EMBEDDED IN CONCRETE.
- FRAMING CONNECTIONS NOT DETAILED, OR CONNECTIONS THAT ARE MODIFIED FROM THOSE DETAILED, SHALL BE DESIGNED BY SUPPLIER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN. IF NO REACTION IS PROVIDED, DESIGN FOR 1/2 THE BEAM MAXIMUM UNIFORM LOAD PER AISI MANUAL FOR STEEL CONSTRUCTION. SUBMIT SIGNED AND SEALED CALCULATIONS.
- ALL WELD OPERATORS SHALL BE CURRENTLY AS WELL QUALIFIED.
- SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. USE 1/8" FILLET WELD MINIMUM.
- FIELD CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED AS DETAILED. NO FIELD WELDING OF HOT DIPPED GALVANIZED MEMBERS WILL BE ALLOWED. USE 3/16" FILLET WELD MINIMUM.
- DURING THE ERECTION OF STEEL BEAMS AND DIAGONAL BRACING, ALL BOLTING AND FIELD WELDING SHALL BE COMPLETE BEFORE RELEASING HOISTING CABLES.
- SUBMIT FOR REVIEW SHOP DRAWINGS OF STEEL DETAILS PRIOR TO FABRICATING STRUCTURAL STEEL.
- ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDING/AST CLEANING PER SSPC-SP10. USE ASTM A325 BOLTS HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS.
- STEEL COLUMNS, BASE PLATES AND ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER PROTECTION.
- MEMBERS NOTED AS "CONTINUOUS" SHALL BE FULLY WELDED AT ALL BUTT SPLICES OR CONNECTIONS SHALL BE DETAILED TO PROVIDE CONTINUITY.

CONCRETE FORMWORK:

- SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI 347, RECOMMENDED STANDARD PRACTICE FOR CONCRETE FORMWORK.
- RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- TOLERANCES: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117. STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS. THE CONTRACTOR SHALL ENGAGE A LICENSED SURVEYOR TO VERIFY THAT WORK IS WITHIN SPECIFIED TOLERANCES. UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE ENGINEER TO PROVIDE TOLERANCE CONTROL USING THE CONTRACTORS OWN FORCE PRIOR TO COMMENCING WORK.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED WHEN SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- PLUMBING SLEEVE SPACING SHALL BE THE LARGER OF THREE (3) DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE, OR 6" CLEAR BETWEEN SLEEVES. SUBMIT SLEEVE LOCATIONS AND SIZES TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- PENETRATIONS SHALL NOT BE PERMITTED IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE WRITTEN REVIEW OF THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW INDICATING ANY CONCENTRATION OF PIPES, OPENINGS OR PENETRATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS PRIOR TO CONCRETE POURS.

SLABS ON GRADE:

- ALL CONCRETE SLABS ON GRADE SHALL BE REINFORCED PER PLANS.
- ALL CONCRETE SLABS ON GRADE SHALL BE IN ACCORDANCE WITH GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302)
- JOINTS SHALL BE PROVIDED IN ALL SLABS ON GRADE WHERE INDICATED ON DRAWINGS. CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE SUBMITTED TO ENGINEERS APPROVAL.
- PROVIDE SAWCUT JOINTS IN ALL SIDEWALKS AT A MAXIMUM SPACING OF 5 FEET O.C. AND ISOLATION JOINTS AT A MAXIMUM SPACING OF 20 FEET APART.
- DEPTH OF SAWCUT JOINTS SHALL BE AS FOLLOWS: 4" & 8" SLABS = 1-1/2" AND 8" SLABS = 2". CUTTING SHOULD BE DONE AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS, NORMALLY WITHIN 6 HOURS. THE CONCRETE IS HARD ENOUGH WHEN THE BLADE DOES NOT DISLodge AGGREGATE AND WHEN THE EDGES OF THE CUT DO NOT RAVEL.
- CONCRETE SLABS SHALL BE SLOPED AS SHOWN ON THE DARWINGS.

CAST-IN-PLACE CONCRETE:

- THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:

| | |
|----------------------------------|--------------------------|
| ACI 318 (CODE) | ACI 304 (PLACING) |
| ACI 308 (WINTER CONCRETING) | ACI 315 (DETAILING) |
| ACI 305 (HOT WEATHER CONCRETING) | ACI 347 (FORMWORK) |
| ACI 211 (MIX PROPORTIONING) | ACI 301 (SPECIFICATIONS) |
- ALL CONCRETE SHALL BE NORMAL WEIGHT (148 PCF DRY DENSITY, MIN.) WITH MIXES DESIGNED TO MEET THE FOLLOWING CRITERIA FOR USE IN VARIOUS ELEMENTS OF THE STRUCTURE:

| | | | | |
|---------------------|-----------------------------|-----------|------|-------------|
| | 28-DAY COMPRESSIVE STRENGTH | MAX. SIZE | W/C | SLUMP RANGE |
| A. FOOTINGS | 3000 | 3/4" | 0.45 | 3-5 |
| B. FOUNDATION WALLS | 3000 | 3/4" | 0.45 | 3-5 |
| C. SLAB-ON-GRADE | 3000 | 3/4" | 0.50 | 3-5 |
| D. ELEVATED BEAMS | 3000 | 3/4" | 0.45 | 3-5 |
- CONCRETE SLUMP IS TAKEN AT POINT OF PLACEMENT INTO STRUCTURE.
- WATER REDUCING AND AIR ENTRAINING AGENTS SHALL BE INCLUDED IN DESIGN MIXES. SUPERPLASTICIZERS MAY BE USED AT THE CONTRACTORS OPTION.
- A CONCRETE MIX DESIGN FOR EACH UNIQUE COMBINATION OF STRENGTH, COARSE AGGREGATE GRADATION AND WATER CEMENT RATIO SPECIFIED SHALL BE PREPARED BY THE SUPPLIER OR AN INDEPENDENT TESTING LABORATORY AND BE SUBMITTED FOR REVIEW PRIOR TO CASTING ANY CONCRETE MIXES THAT WILL BE TRANSPORTED AT THE PROJECT SITE BY PUMPING. MIXES SHALL BE SPECIFICALLY DESIGNED FOR PUMPING.
- SLABS ON GRADE: UNLESS NOTED OTHERWISE, CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK, REINFORCED WITH 6# W/ 4x4# 4' WAYS PLACED 1'-1/2" CLEAR FROM THE TOP OF THE SLAB. SLABS SHALL BE PLACED OVER PROPERLY COMPACTED EARTH.
- CONCRETE BEAMS: UNLESS NOTED OTHERWISE, CONCRETE BEAMS SHALL BE A MINIMUM OF 16" DEEP BY THE SUPPORTING WALL WIDTH, REINFORCED WITH 2 #5 CONTINUOUS TOP AND BOTTOM AND 8 #5ES AT 24" O.C.

TERMITE PROTECTION:

- A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR TREATMENT AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FSC 1903.4.9
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FSC 1903.4.4
- IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FSC 1903.4.4
- TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6" EXCEPT FOR CONCRETE AND CEMENTITIOUS FINISH LESS THAN 5" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FSC 1403.1.6
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FSC 1916.1.1
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FSC 1916.1.2
- BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FSC 1916.1.3
- MINIMUM 8 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FSC 1916.1.4
- CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FSC 1916.1.5
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FSC 1916.1.6
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE RETREATED. FSC 1916.1.6
- ALL BUILDINGS ARE REQUIRED TO HAVE PER CONSTRUCTION TREATMENT. FSC 1916.1.7
- A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBSTANTIAL TERMITE. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES" FSC 1916.1.7
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FSC 2303.1.3
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FSC 2303.1.4

MISCELLANEOUS:

- CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, ARE SUBJECT TO THE APPROVAL FOR THE ENGINEER.
- CONTRACTOR TO COORDINATE EXACT SIZE AND LOCATION OF CONCRETE EQUIPMENT PADS, PIPES, PIPE ENCASEMENT, PIPE SUPPORTS, CHASES, AND OTHER MISCELLANEOUS ITEMS TO BE PLACED PRIOR TO POURING CONCRETE, WITH MECHANICAL AND ELECTRICAL DRAWINGS, AND MANUFACTURERS REVIEWED SHOP DRAWINGS.
- NO COND. PIPES, SLEEVES OR ANY OTHER ITEM SHALL BE EMBEDDED IN CONCRETE ALONG THROUGH OR UNDER AN YRAN, COLUMN, FOOTING, GRADE BEAM, SLAB, WALL OR ANY OTHER STRUCTURAL MEMBER WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- ALL PHASES OF CONCRETE CONSTRUCTION INCLUDING MATERIALS, FOUNDATIONS, CAST-IN-PLACE AND PRECAST CONCRETE, REINFORCING STEEL, MASONRY, FORM WORK AND ALL OTHER RELATED PROCEDURES AND MATERIALS SHALL COMPLY WITH THE MOST STRINGENT ALLOWED TOLERANCES OF ACI-301 AND ACI-117 STANDARDS. (LATEST VERSION)

| REVISED | | REVISIONS | |
|---------|----|-------------|------|
| DATE | BY | DESCRIPTION | DATE |
| | | | |



CERTIFICATE OF AUTHORIZATION
NO. 29022

P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085

Brett A. Crows, P.E. 65592

DRAWN BY:
TM

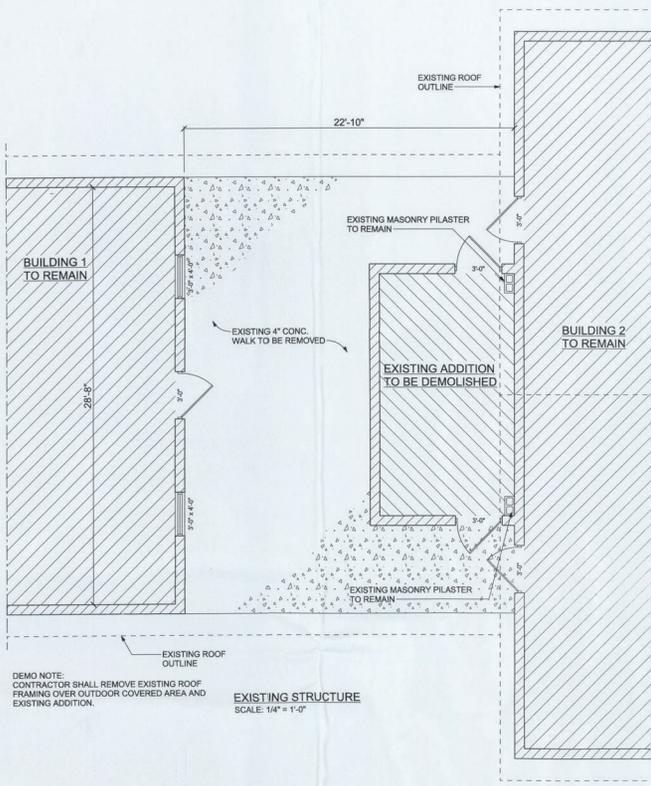
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**ELIM BAPTIST CHURCH
RESTROOM ADDITION**

GENERAL NOTES

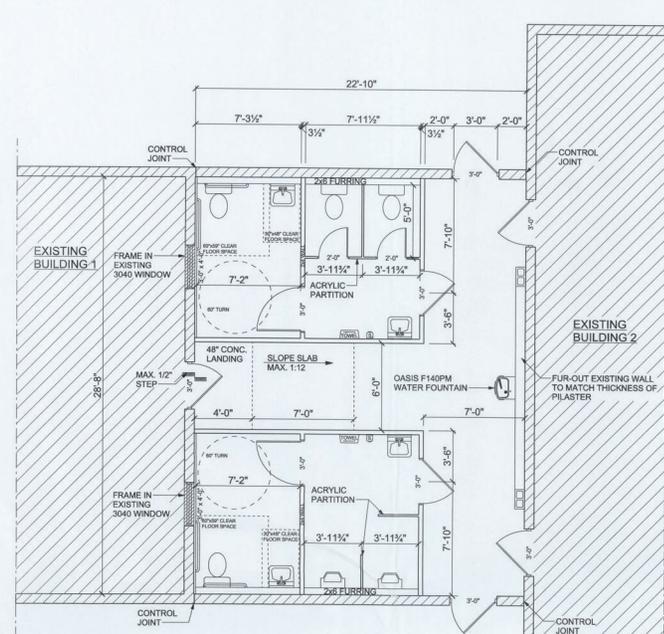
CES PROJECT NO.:
2014-009

SHEET:
A-2

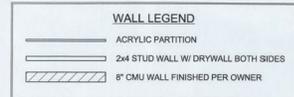


DEMO NOTE:
CONTRACTOR SHALL REMOVE EXISTING ROOF FRAMING OVER OUTDOOR COVERED AREA AND EXISTING ADDITION.

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



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



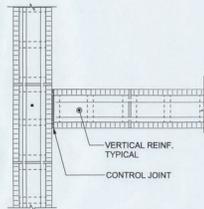
| CMU Lintel Schedule | | |
|-----------------------|---------------------|---------------|
| OPENING | LINTEL DEPTH 8" CMU | REINF. AT TOP |
| 4'-0" or less | 16" | 1-#5 |
| over 4'-0" to 7'-4" | 16" | 1-#5 |
| over 7'-4" to 11'-4" | 24" | 1-#5's |
| over 11'-4" to 14'-0" | 32" | 1-#5's |
| over 14'-0" to 16'-0" | 40" | 1-#5's |

SEE SCHEDULE FOR REINF. - OPEN END COURSES ABOVE

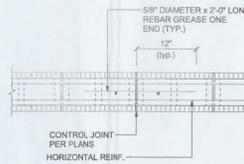
VERTICAL REINF. TO MATCH BELOW

CLOSED BOTTOM LINTEL BLOCK

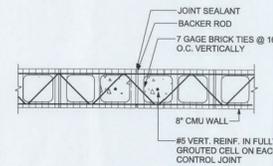
- For openings 6'-0" and less provide 8" bearing with 1-#5 each side of opening.
- For openings larger than 6'-0" provide min. 16" bearing with 2-#5's each side of opening.
- Extend horizontal reinforcement min. 16" past each side of opening.
- Extend vertical reinforcement full height of wall each side of opening.
- Grout all all reinforcement solid with 3,000 psi grout.
- Grout lintel solid to depth indicated on schedule unless otherwise on the drawings.
- Shore all cmu lintels during construction for 48 hours after grout has been placed.



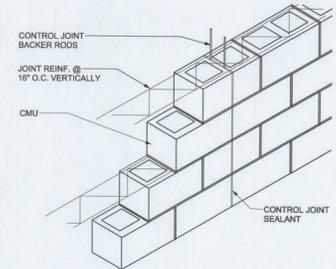
CONTROL JOINT AT INTERSECTION
SCALE: 3/4" = 1'-0"



BOND BEAM AT CONTROL JOINT
SCALE: 3/4" = 1'-0"



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



CONTROL JOINT LOCATION
NTS

| REVISIONS | | | | | |
|-----------|----|-------------|------|----|-------------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | |



CERTIFICATE OF AUTHORIZATION
NO. 28022
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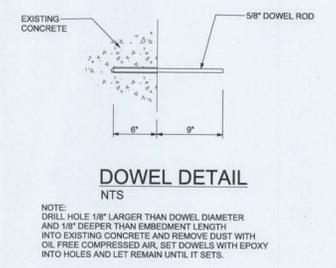
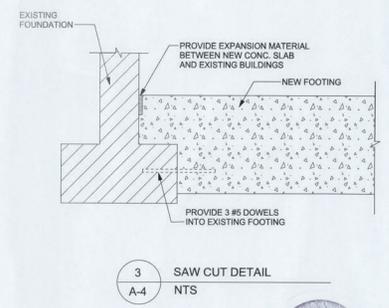
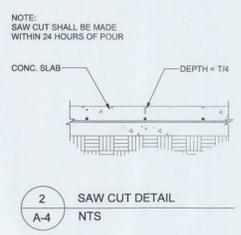
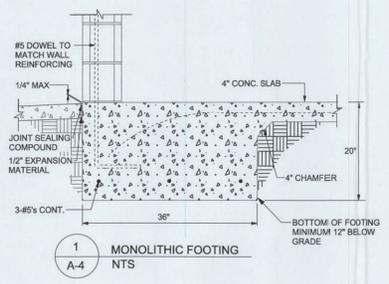
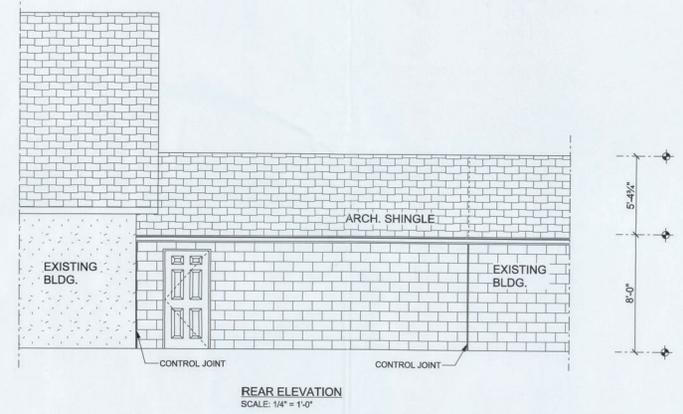
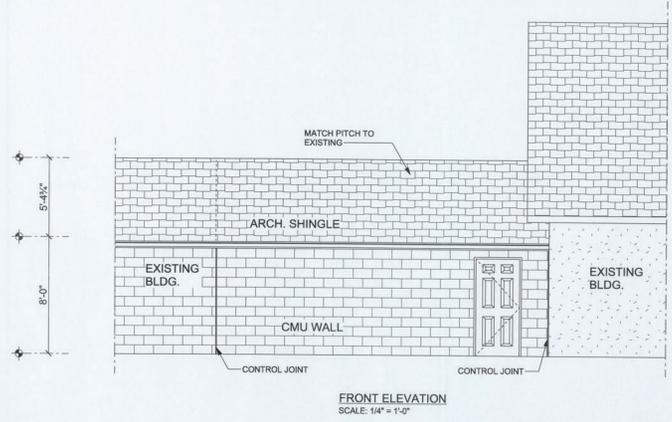
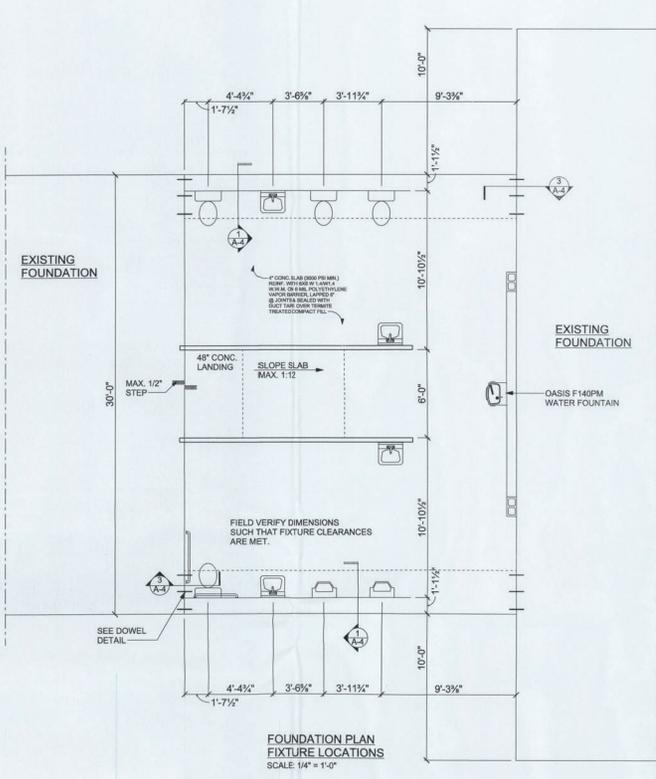


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ELIM BAPTIST CHURCH RESTROOM ADDITION

FLOOR LAYOUT

CES PROJECT NO.:
2014-009
SHEET:
A-3



| REVISIONS | | | | | |
|-----------|----|-------------|------|----|-------------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | |



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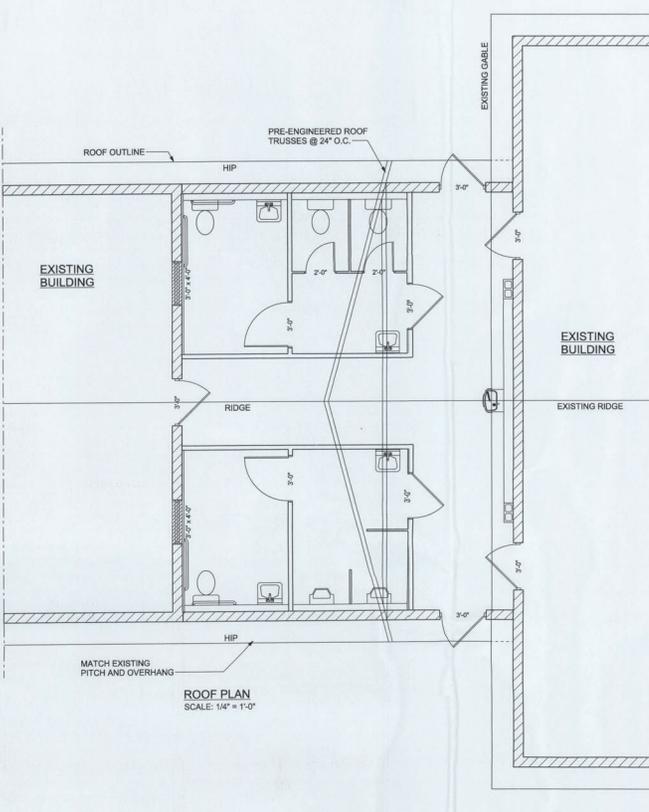
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**ELIM BAPTIST CHURCH
RESTROOM ADDITION**

FOUNDATION AND
ELEVATIONS

CES PROJECT NO.:
2014-009

SHEET:
A-4



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

SHINGLE NOTES:
DECK REQUIREMENTS:
 ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
 ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 3:12 OR GREATER. FOR ROOF SLOPES OF 3:12, DOUBLE UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
 UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 228, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
 SELF-ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES:
 ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
 FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:
 ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR IMC PCA 107-95.

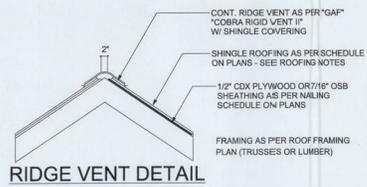
UNDERLAYMENT APPLICATION:
 FOR ROOF SLOPES OF 3:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
 1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
 2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
 STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

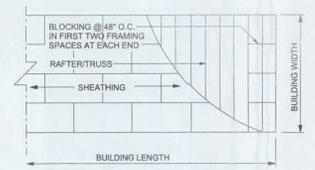
BASE AND CAP FLASHINGS:
 BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:
 VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:
 1. FOR OPEN VALLEYS LINED WITH METAL THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2.
 2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
 3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
 1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
 2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
 3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

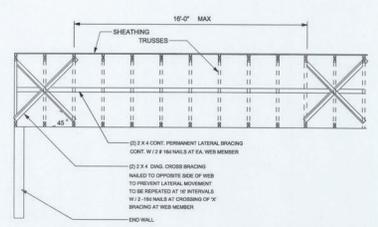
| MATERIAL | MINIMUM THICKNESS (in) | GAGE | WEIGHT (LB) |
|-------------------------------|------------------------|----------------------|-------------|
| COPPER | | | 1 |
| ALUMINUM | 0.024 | | |
| STAINLESS STEEL | | 28 | |
| GALVANIZED STEEL | 0.0179 | 26 (ZINC COATED G90) | |
| ZINC ALLOY LEAD PAINTED TERNE | 0.027 | | 2 1/2 20 |



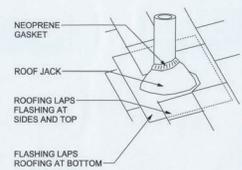
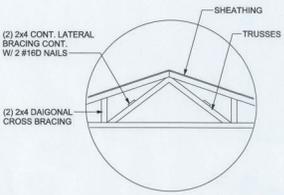
RIDGE VENT DETAIL



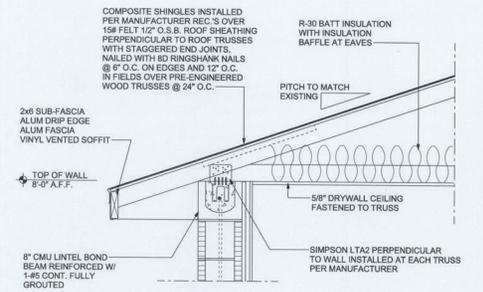
ROOF SHEATHING LAYOUT AND ENDWALL ROOF BRACING



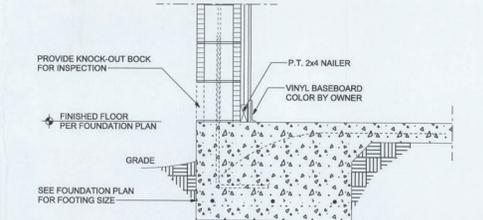
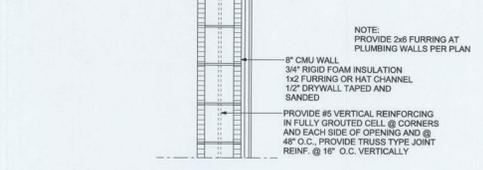
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE
 TYPICAL PERMANENT TRUSS BRACING DIAGRAM
 NTS



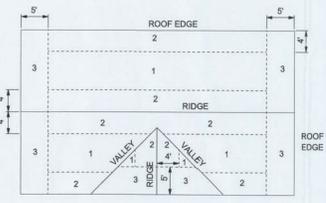
ROOF JACKS AND VENTS



NOTE: PROVIDE 2x6 FURRING AT PLUMBING WALLS PER PLAN



TYPICAL WALL SECTION
 SCALE: 1" = 1'-0"



ROOF SHEATHING NAILING ZONES (GABLE)

| ROOF SHEATHING FASTENERS | | | |
|--------------------------|------------------------|----------------------------|---|
| NAILING ZONE | SHEATHING TYPE | FASTENER | SPACING |
| 1 | | | 6" O.C. EDGE 12" O.C. FIELD |
| 2 | 7/16" OSB & 15/32" CDX | 8D GALLY. RING SHANK NAILS | 6" O.C. EDGE 6" O.C. FIELD |
| 3 | | | 4" O.C. @ GABLES 6" O.C. EDGE 6" O.C. FIELD |

ROOF SHEATHING FASTENING

| REVISIONS | | | | | |
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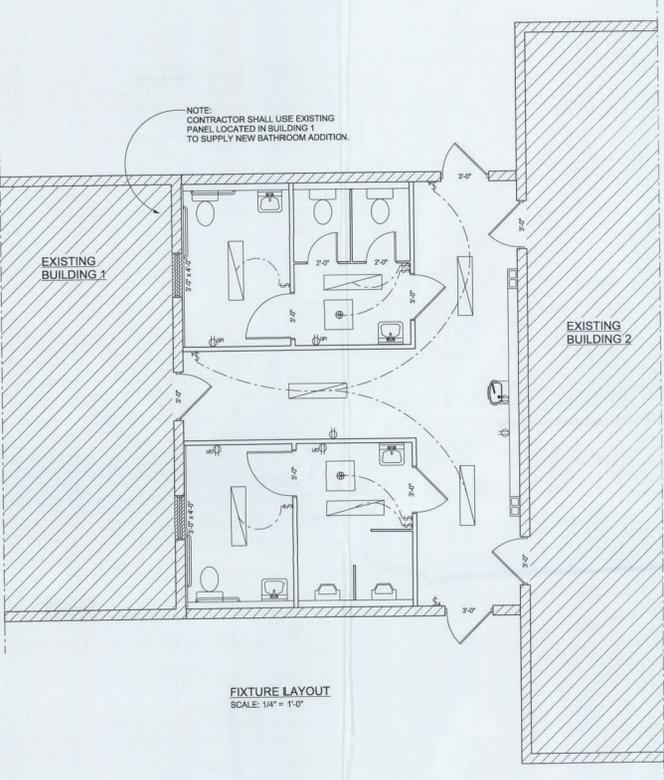
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 PHONE: 386.754.4085



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TM
 APPROVED BY:
BC

ELIM BAPTIST CHURCH RESTROOM ADDITION
 ROOF AND DETAILS

CEC PROJECT NO.:
2014-009
 SHEET:
A-5



| ELECTRICAL | SYMBOL | SYMBOL |
|-----------------------|----------|----------|
| FLOURESCENT LIGHT 1x4 | (Symbol) | (Symbol) |
| FAN 100 CFM | (Symbol) | (Symbol) |
| OUTLET | (Symbol) | (Symbol) |
| OUTLET GFI | (Symbol) | (Symbol) |
| SWITCH | (Symbol) | (Symbol) |
| SWITCH 4 WAY | (Symbol) | (Symbol) |

WIRING NOTES:

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A. CONDUCTORS: COPPER, IN ACCORDANCE WITH ASTM STANDARDS, SIZE REFERENCE AWG. CONDUCTORS NO. 10 AND SMALLER SIZE SOLID, NO. 8 AND LARGER, STRANDED. INSULATION ON CONDUCTOR THERMOPLASTIC, TYPE THHN (MIN. SIZE NO. 12) ANY WIRE INSTALLED OUTSIDE, UNDERGROUND, IN SLABS OR EXPOSED TO MOISTURE SHALL HAVE THWN INSULATION.

B. RACEWAYS: RIGID STEEL CONDUIT, FULL WEIGHT PIPE GALVANIZED, THREADED, AND MINIMUM 1/2 INCH EXCEPT AS NOTED OR REQUIRED FOR WIRING. ELECTRICAL METALLIC TUBING (EMT), THIN WALL PIPE, GALVANIZED, THREADED, COMPRESSION FITTINGS, AND MINIM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. FLEXIBLE STEEL CONDUIT, CONTINUOUS SINGLE STRIP, GALVANIZED, AND MINIMUM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. PVC CONDUIT, HEAVY DUTY TYPE, SIZE AS INDICATED. SEPARATE RACEWAYS SHALL BE USED FOR EACH VOLTAGE SYSTEM.

C. DISCONNECT SWITCHES: GENERAL DUTY, HORSEPOWER RATED FOR MOTOR LOADS 250 VOLT RATING, FUSED OR NON-FUSED AS NOTED; NUMBER OF POLES AS INDICATED. ENCLOSURE NEMA 1 FOR INDOOR USE AND NEMA 3R FOR WEATHERPROOF APPLICATIONS. SWITCH TO BE SQUARE "D" OR EQUAL.

D. CIRCUIT BREAKERS: MOLDED CASE, THERMAL-MAGNETIC, QUICK MAKE, QUICK BREAK, BOLT-ON TYPE WITH MANUALLY OPERATED INSULATED TRIP-FREE HANDLE. MULTIPOLE TYPES WITH INTERNAL COMMON TRIP BAR, TERMINALS SUITABLE FOR COPPER OR ALUMINUM CONDUCTORS. INTERRUPTING CAPACITY MINIMUM 10,000 RMS SYMMETRICAL AMPERES CIRCUIT CIRCUIT BREAKERS TO BE SQUARE "D", SIEMENS OR EQUAL, TYPE AS REQUIRED.

E. PANELBOARDS: VOLTAGE, PHASING, AND AMPERE RATINGS AS INDICATED, CIRCUIT BREAKER TYPE AS INDICATED, BUS BARS OF HARD DRAWN COPPER, MINIMUM 96% CONDUCTIVITY, GALVANIZED STEEL BACK BOX, DOOR AND TRIM. ALL CORNERS LAPPED AND WELDED, HARDWARE CHROME PLATED WITH FLUSH LOCK AND CATCH, HINGES SEMI-CONCEALED, 3/16 INCHES STEEL WITH NONFERROUS PINS, 180 DEGREE OPENINGS, MINIMUM GUTTER SPACE 5-3/4" SIDES, TOP AND BOTTOM. INCREASE SIZE WHERE REQUIRED BY CODE. DIRECTORY HOLDER COMPLETE WITH CLEAR PLASTIC TRANSPARENT COVER INDICATING TYPWRITTEN LIST OF FEEDER CABLES, CONDUIT SIZES, CIRCUIT NUMBER, OUTLETS OF EQUIPMENT SUPPLIED, AND THEIR LOCATION. CIRCUIT BREAKER TYPE PANELBOARDS TO BE SQUARE "D" TYPE, WOOD OR PLNE, OR EQUAL. A PLASTIC LABEL SHALL BE LOCATED ON EXTERIOR OF PANELBOARD IDENTIFYING THE SYSTEM VOLTAGE, PHASE, AND CURRENT RATING.

F. WIRING DEVICES: ALL DEVICES THEIR PRODUCT OF THE SAME MANUFACTURER. WALL SWITCHES AND RECEPTACLES TO BE 20 AMP, 125 VOLT, UNLESS NOTED OTHERWISE. COLOR TO BE SELECTED BY ARCHITECT.

G. DEVICE PLATES: PROVIDE FOR ALL OUTLETS WHERE DEVICES ARE INSTALLED. PROVIDE ENGRAVED MARKING FOR SPECIAL OUTLETS (WHERE NOTED). PROVIDE BLANK PLATES FOR EMPTY OR FUTURE OUTLET BOXES. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

GROUNDING SYSTEM:

A. EQUIPMENT: GROUND NON-CURRENT CARRYING METAL PARTS OF PANEL BOARD, RACEWAYS AND ALL LIGHTING FIXTURES. ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTORS.

INSTALLATION:

A. SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS SPECIFIED UNDER RACEWAYS. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUIT NOT MORE THAN 10 FEET APART. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

B. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES. EXPECT CROSSING WHERE THE RACEWAY SHALL BE AT LEAST 2 INCHES FROM PIPE COVER.

C. CUT CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASED PIP COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.

D. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 30 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH PULL WIRE.

E. VERIFY LOCATIONS OF OUTLETS AND SWITCHES.

F. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.

G. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BASES WITH FLEXIBLE CONDUIT. MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

H. THIS CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL DISTRIBUTION SYSTEM AS REQUIRED: 120/208 VOLT, 1 PHASE, 100 AMP. FOR NEW CONSTRUCTION. ALL TEMPORARY WORK SHALL BE INSTALLED IN A NEAT AND SAFE MANNER.

I. CONTRACTOR TO REMOVE AND SALVAGE ALL ABANDONED ELECTRICAL EQUIPMENT.

J. THIS CONTRACTOR SHALL WARRANT ALL LABOR AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL WRITTEN ACCEPTANCE.

| GENERAL LIGHTING LOAD (CONTINUOUS) | |
|--|------------------|
| BUSINESS USE | 685 |
| TOTAL BUILDING AREA (SF) | 2397.5 |
| 3.5 VA PER SQUARE FOOT | 2397.5 |
| SUBTOTAL | 2996.675 w |
| DEMAND FACTOR 125% | 2996.675 w |
| OUTSIDE LIGHTING (CONTINUOUS) | |
| 0 VA x 125% | 0 w |
| SIGN AND OUTLINE LIGHTING (CONTINUOUS) | |
| 1,200 VA PER SIGN | 0 w |
| 0 NUMBER OF SIGNS | 0 w |
| RECEPTACLE LOADING (NON-CONT.) | |
| NUMBER OF RECEPTACLES | 7 |
| 180 VA PER RECEPTACLE | 1,260 |
| FIRST 10,000 VA X 100% = | 1,260 |
| REMAINING X 50% = | 0 |
| TOTAL | 1,260 w |
| WATER HEATER | |
| 5,500 VA PER WATER HEATER | 0 w |
| 0 NUMBER OF WATER HEATERS | 0 w |
| WELL PUMP | |
| EXISTING | 0 |
| PUMPS = | 0 |
| TOTAL | 0 w |
| SEWAGE PUMP | |
| EXISTING | 0 |
| PUMPS = | 0 |
| TOTAL | 0 w |
| HEATING LOADS | |
| EXISTING | 18,000 |
| HEAT PUMPS = | 0 |
| TOTAL | 0 w |
| A/C MOTOR LOADS | |
| EXISTING | 5,500 |
| AIR HANDLERS = | 0 |
| TOTAL | 0 w |
| APPLIANCE LOADS | |
| SPECIALTY EQUIPMENT | 0 |
| DEMAND FACTOR = 90% | 0 w |
| OCPD | |
| GENERAL LIGHTING | 2996.6 |
| OUTSIDE LIGHTING | 0.0 |
| SIGN AND OUTLINE | 0.0 |
| RECEPTACLE LOAD | 1260.0 |
| WATER HEATER | 0.0 |
| WELL PUMP LOADS | 0.0 |
| SEWAGE PUMP | 0.0 |
| HEATING LOADS | 0.0 |
| A/C LOADS | 0.0 |
| APPLIANCE LOADS | 0.0 |
| TOTAL LOAD | 4256.9 w |
| I = TOTAL LOAD/240 = | 17.73697917 AMPS |
| USE MIN. TWO CIRCUITS 20 AMP 1 PHASE POWER | |

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

REVISIONS

| DESCRIPTION | DATE | BY | DESCRIPTION |
|-------------|------|----|-------------|
| | | | |
| | | | |



CERTIFICATE OF AUTHORIZATION
NO. 28022

P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085



DRAWN BY:
TM

APPROVED BY:
BC

**ELIM BAPTIST CHURCH
RESTROOM ADDITION**

ELECTRICAL PLAN

CES PROJECT NO:
2014-009

SHEET:
A-7