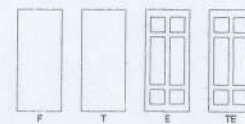
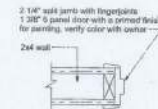


DOOR SCHEDULE									
NO.	LOCATION	WIDTH	HEIGHT	THICK	TYPE	DOOR	FRAME	RATING	REMARKS
1	EXTERIOR	2'-3 1/2"	6'-8"	1 1/2"	E	STEEL	METAL	N.A.	PAINT
2	EXTERIOR	2'-3 1/2"	6'-8"	1 1/2"	E	STEEL	METAL	N.A.	PAINT
3	EXTERIOR	2'-3 1/2"	6'-8"	1 1/2"	E	STEEL	METAL	N.A.	PAINT
4	EXTERIOR	2'-3 1/2"	6'-8"	1 1/2"	E	STEEL	METAL	N.A.	PAINT
5	INTERIOR	2'-0"	6'-8"	1 1/2"	T.E.	MASONRY	WOOD	N.A.	PAINT
6	INTERIOR	2'-0"	6'-8"	1 1/2"	T.E.	MASONRY	WOOD	N.A.	PAINT
7	INTERIOR	2'-0"	6'-8"	1 1/2"	T.E.	MASONRY	WOOD	N.A.	PAINT
8	INTERIOR	2'-0"	6'-8"	1 1/2"	T.E.	MASONRY	WOOD	N.A.	PAINT
9	INTERIOR	2'-0"	6'-8"	1 1/2"	T.E.	MASONRY	WOOD	N.A.	PAINT

- 1 12" VINYL COMPOSITION TILE WITH RUBBER COVE BASE
- 2 CERAMIC TILE FLOORING & 4" C.T. WAINSCOTTING WITH BILLMOSE
- 3 PLYWOOD COUNTER TOP WITH PLASTIC LAMINATE
- 4 OVERHEAD BRACED FLOOR MOUNTED LAMINATE
- 5 BATHROOM PARTITIONS
- 6 WALL MOUNTED URINAL WITH FLUSH VALVE
- 7 ELONGATED BOWL 2 PIECE W.C. WITH OPEN FRONT SEAT
- 8 HANDICAP ACCESSIBLE LAVATORY
- 9 HANDICAP GRAB BAR
- 10 WIRE RACK SHELVING - 5 SHELVES



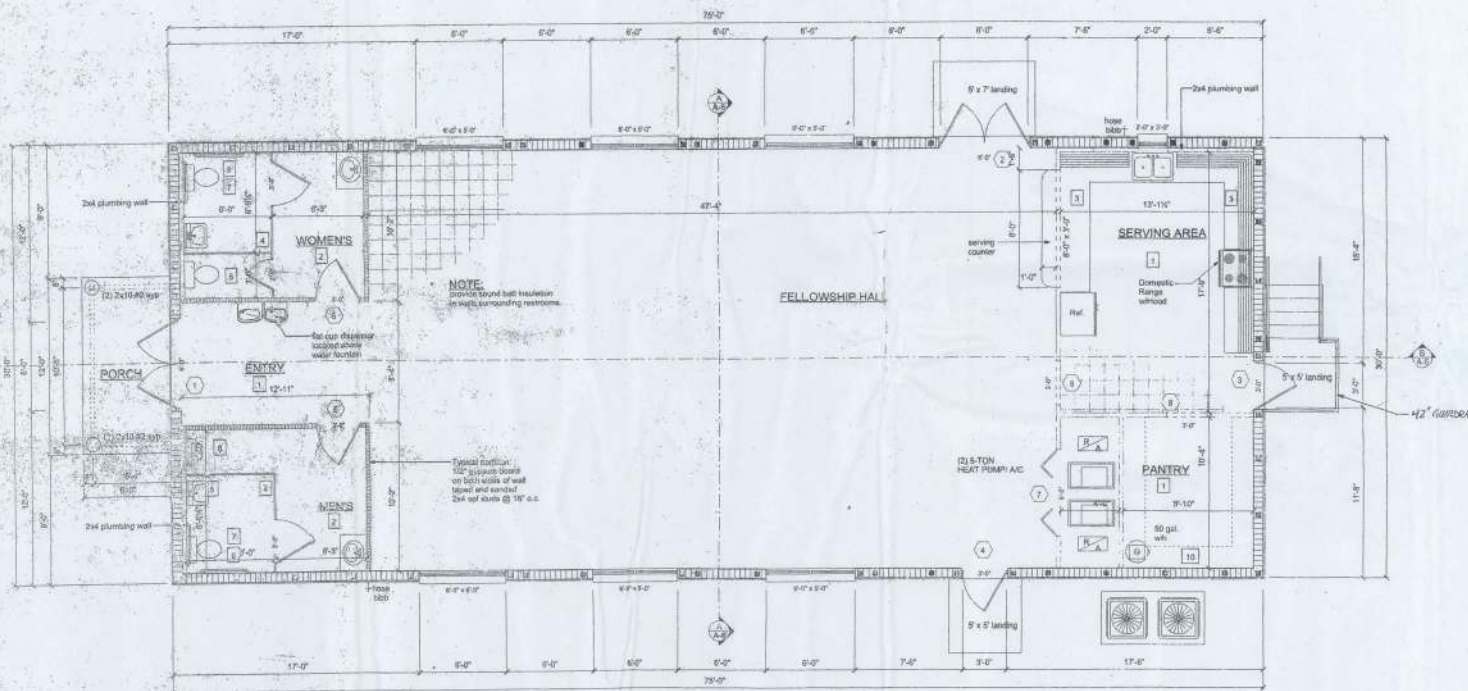
F Flush
T Textured
E Embossed
TE Textured and embossed



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



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



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

INTERIOR FINISH SCHEDULE						
ROOM	FLOORING	BASE	WAINSCOT	WALLS	CEILING	CLG. HEIGHT
L. ROOM	CERAMIC TILE	4" VINYL COVE		KNOCKDOWN	KNOCKDOWN	10'-0"
W.C. REST.	CERAMIC TILE	4" VINYL COVE		KNOCKDOWN	KNOCKDOWN	10'-0"
W. REST.	CERAMIC TILE	4" VINYL COVE		KNOCKDOWN	KNOCKDOWN	10'-0"
W. REST.	CERAMIC TILE	4" VINYL COVE		KNOCKDOWN	KNOCKDOWN	10'-0"
W. REST.	CERAMIC TILE	4" VINYL COVE		KNOCKDOWN	KNOCKDOWN	10'-0"
W. REST.	CERAMIC TILE	4" VINYL COVE		KNOCKDOWN	KNOCKDOWN	10'-0"
W. REST.	CERAMIC TILE	4" VINYL COVE		KNOCKDOWN	KNOCKDOWN	10'-0"

AREA SUMMARY		
MAIN AREA	2250 SF	
PORCH	72 SF	
TOTAL	2322 SF	

1220 SW MASSAU STREET
LAKE CITY, FL 33705
(813) 768-4338

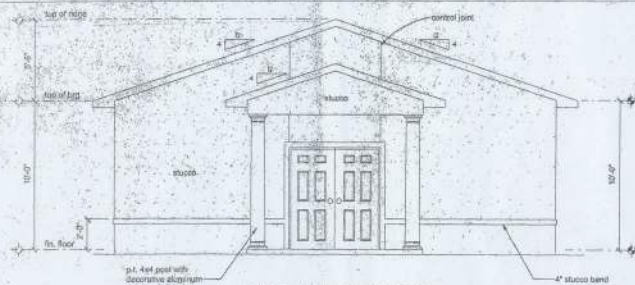
PROFESSIONAL
Design Group Inc.

DATE: 01/10/05
DRAWN BY: WAF
REV: 0/05

SHEET: A-3
OF: 7
PROJECT NO: 05.2028

CERTIFICATE OF AUTHORIZATION # 6000011

RETHLEHEM UNITED
METHODIST CHURCH



FRONT ELEVATION

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

NOTE:
stucco control joints installed not more than 18" o.c. when installed over walls which applied directly to masonry, control joints shall be installed over and aligned with any control joint in the masonry. control joints, any also redifier square dimension into masonry masonry.

NOTE:
finish grade shall be not more than 30" below the finished ground.



REAR ELEVATION

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

NOTE:
finish grade shall be not more than 30" below the finished ground.

GENERAL NOTES:

1. 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.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK 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.
3. 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.
4. THE CONTRACTOR 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.

5. 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.
6. 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.
7. 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 ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

NOTE:

THE RIDGE HEIGHT IS GIVEN FOR MEAN ROOF HEIGHT DETERMINATION ONLY. DO NOT USE THIS DIMENSION FOR ROOF CONSTRUCTION.

CONSTRUCTION DOCUMENTS:

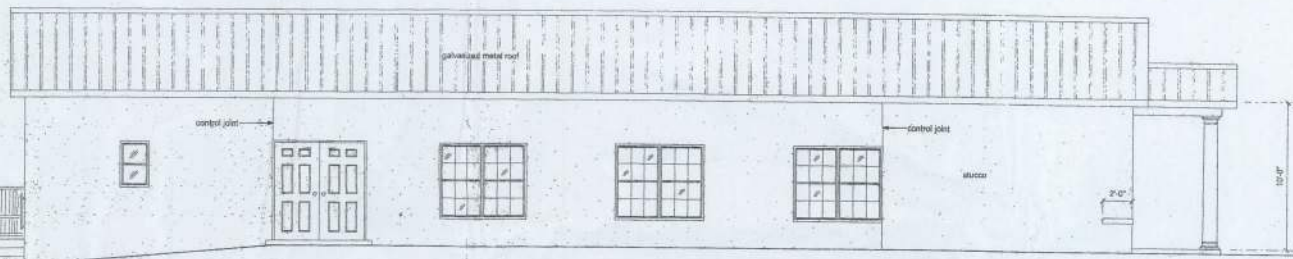
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

DO NOT SCALE THESE PLANS:

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

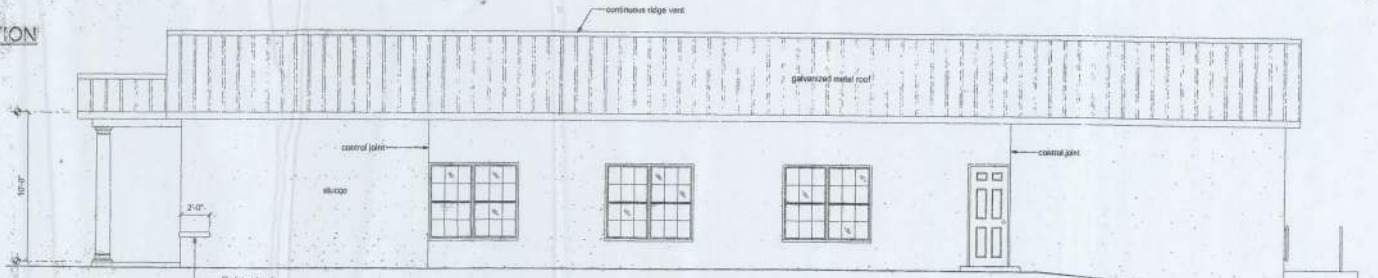
CHANGES TO PLAN SETS:

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT/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.



LEFT ELEVATION

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



RIGHT ELEVATION

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

**BETHLEHEM UNITED
METHODIST CHURCH**

128 SW NASSAU STREET
LAKE CITY, FL 33025
(850) 769-4209



**Freeman
Design Group**

DATE: 8/18/10
DRAWN BY: WAF

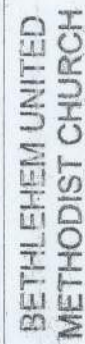
REV: NE

SHEET: 1/4

OF: 7

PROJ. NO.: 05-C-028

CERTIFICATE OF AUTHORIZATION # 000001



A diagram of a roof truss. The truss has a 4/12 pitch, indicated by a small triangle with a vertical side of 4 and a horizontal side of 12. The main span of the truss is labeled 12'-0". There are overhangs of 1'-6" on both the left and right sides of the main span.

CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE				
CONNECTOR	TRUSS	TOP PLATE	UPLIFT PROVIDED	MANUFACTURER
H2.5	5-8d NAILS	5-8d NAILS	365 LBS	SIMPSON
H10	8-8d NAILS	8-8d NAILS	650 LBS	SIMPSON
MT12	7-10d NAILS	7-10d NAILS	1,000 LBS	SIMPSON
H16	2-10d NAILS	10-10d NAILS	1,300 LBS	SIMPSON
2HT120	10-10d NAILS	10-10d NAILS	2 x 1,450 = 2,900 LBS	SIMPSON

DATE 8/19/10	DRAWN BY W.H.F.
REVISIONS	
SHEET OF	A-5 7
PROJECT NO. 05C028	

The diagram shows a rectangular roof plan with a central triangular gable. The roof is divided into sections labeled 'ROOF EDGE', 'EDGE', 'VALLEY', and 'ROOF'. Dimensions are indicated by numbers 1 through 6 along the edges and within the sections.

Technical drawing of a roof truss assembly showing various components and their specifications:

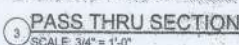
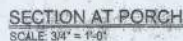
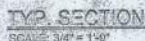
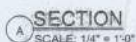
- Full depth blocking**: @ 4'-0" o.c. for first two framing members from each end.
- 1-1/2" diameter anchor bolt**: @ 4'-0" o.c. max.
- p. 1. 2x8 plate**.
- 2-1/2" x 6" nail**.
- Simpson Strong Tie NUTBOLT**.
- 16d nails @ 6" o.c. end nailed**.
- bent beam**.
- 2-1/2" x 6" nail**.
- 2-1/2" x 6" nail @ 2'-0" railed to each brace or ceiling joist with 2-1/2" nails in each member**.
- 2-1/2" x 6" nail**.
- min. 1/2" gypsum diag bracing**.
- 1x4 rocker nails @ 2'-0" o.c.**.

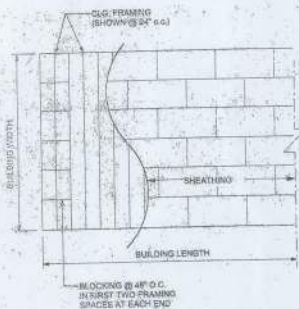
DIRECT TRUSS TO MASONRY CONNECTION



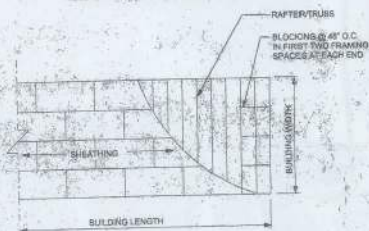
Freeman
Design Group

DATE 8/28/10	DRAWN BY W.H.F.
RE: 15085	
SHEET OF	A-6 7
PRJ. DIST. NO. 05 C028	





ENDWALL BRACING PERPENDICULAR TO CLG. FRAMING



ROOF SHEATHING LAYOUT AND ENDWALL ROOF BRACING

Available Framing Tolerances

For gypsum wallboard and plaster application, the maximum out of plumb variation of vertical wall framing members must not exceed 1/4" in 10 feet.

For gypsum wallboard applications, the maximum misalignment of adjacent framing members must not exceed 3/8".

Full depth blocking shall be cut to fit between adjacent framing members not exceeding 1/8" +/- difference.

All blocking members shall be securely fastened to adjacent structural members with 2-16d nails on each end minimum. Flood blocking shall not be permitted.

Sheathing and framing fasteners not fully penetrating any solid blocking or structural members shall be removed. No exposed fasteners shall be permitted.

Cutting or notching of structural members shall not be permitted.

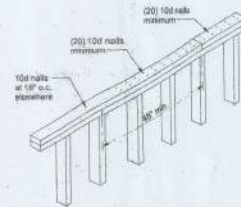
Wall and roof sheathing shall have a minimum dimension of 24" and shall span not less than two structural framing members.

Truss or rafter spacing shall be no greater than 24" o.c. span.

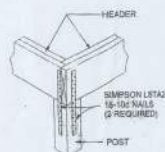
No splicing of truss or rafter tails shall be permitted.

Roof Sheathing shall be continuous from eave to ridge or valley. Sheathing shall be installed with 1/8" expansion joints between adjacent members, but no more than 1/4" gap except 1/4" including holes, recessed fasteners, pipes or joints.

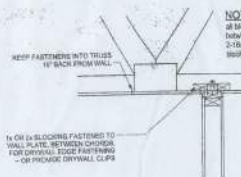
Maximum misalignment of walls must not exceed 1/8" from a straight string and 1/4" height to top.



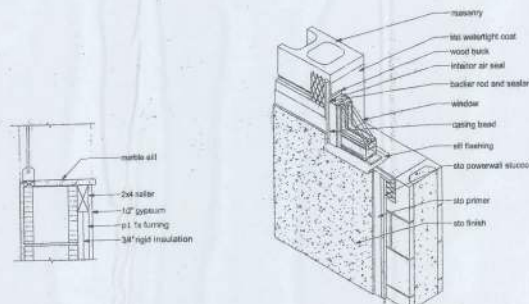
TOP PLATE SPLICE DETAILS SCALE: 1/2" = 1'-0"



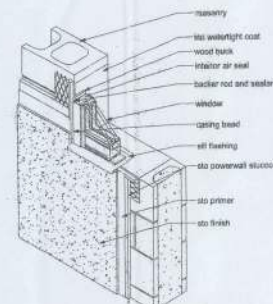
CORNER POST/HEADER DETAIL NTS



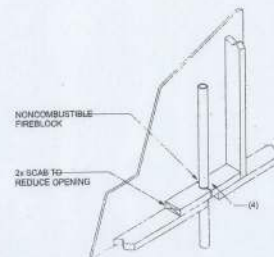
NON-BEARING INT. WALL ATTACHMENT TO TRUSSES



WINDOW SILL DETAIL SCALE: 1 1/2" = 1'-0"



WINDOW FLASHING DETAIL SCALE: 1 1/2" = 1'-0"



PENETRATIONS



SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FLURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING, CORE CEILING, ETC.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROFLEX, MULTIFLEX SEALANT.
5. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ANGLE OF FLOOR JOISTS. FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

STEEL COATING RECOMMENDATIONS IN PRESSURE TREATED WOOD:

- Thicker galvanizing generally extends service life of a product. The treated wood industry recommends use of Stainless Steel and hot-dip galvanized connectors and fasteners with treated wood.
- Due to the uncertainties, which are out of the specifier's control, in regard to the chemicals used in pressure treated wood, Simpson recommends the use of stainless steel fasteners, anchors and connectors with treated wood when possible. At a minimum, customers should use ZMAX (0165 HDG per ASTM A653), Bath-Proof Hot-Dip Galvanized (per ASTM A123 for connectors and ASTM A153 for fasteners), or mechanically galvanized fasteners (per ASTM B695, Class 55 or greater), product with the newer alternative treated woods.
- G90 galvanized products should not be used with treated woods.
- G90 galvanized connectors can be used with Sodium Borate (DOT - Disodium Octaborate Tetrahydrate) treated woods. Sodium Borate Treated woods are not suitable for applications where moisture exposure is likely. They are suitable for most applications when transported, stored, and installed appropriately.
- When using stainless steel or hot-dip galvanized connectors, the connectors and fasteners should be made of the same material.

Simpson Strong-Tie Product Families	Untreated Wood	Chromated Copper Arsenate (CCA-C)	DOT Sodium Borate (SBK)	Alkaline Copper Quat ACQ-C and ACQ-D (Cetronate)	Copper Azole (CSA-A and CA-B)	SBK (DOT) with NABSO	Ammoniacal Copper Zinc Arsenate (ACZA)	Other Pressure Treated Woods
Standard (290)	X	X	X					
ZMAX (0165)	X	X	X	X	X	X		
Post Hot-Dip Galvanized (HDG)	X	X	X	X	X	X	X	X
55T300 (Stainless Steel)	X	X	X	X	X	X	X	X



BETHLEHEM UNITED METHODIST CHURCH

128 SW NASSAU STREET

JACKSONVILLE, FL 32205

(904) 759-4300

CERTIFICATE OF AUTHORIZATION



Freeman
Design Group

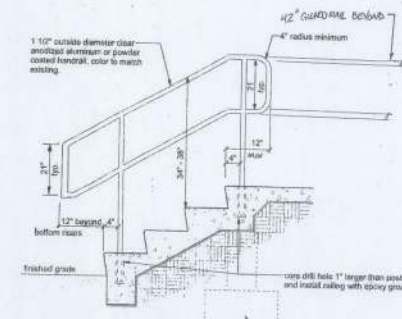
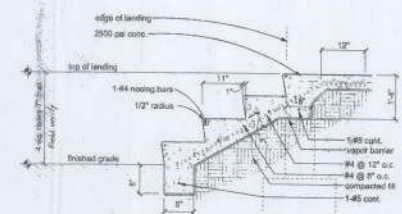
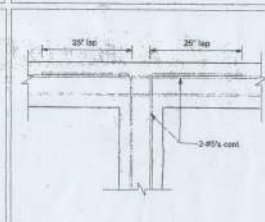
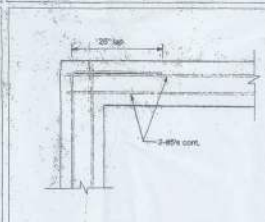
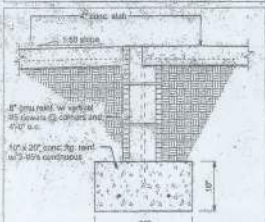
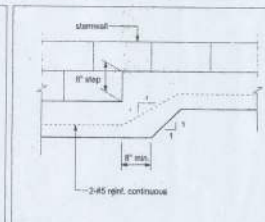
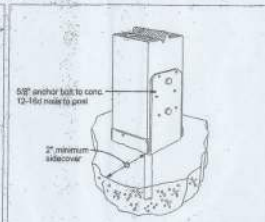
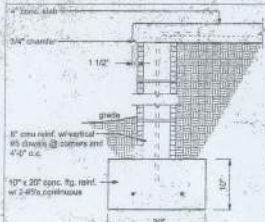
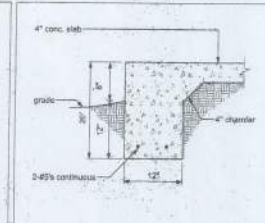
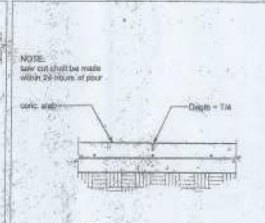
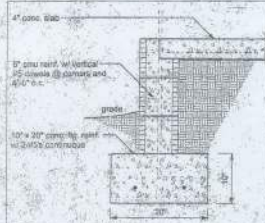
DATE: 07/10/10
BY: [Signature]
REVISIONS:

SHEET: A-7

OF: 7

PROJECT NO: 06-C028

05.C028



NOTE:
IF STAIR LANDING IS GREATER THAN 30' ABOVE GRADE THE HANDRAIL SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A 4" SPHERE.

NOTE:
IF THE LANDING IS 30" OR LESS ABOVE FINISHED GRADE, THE GUARD MAY BE ELIMINATED, FINAL HEIGHT MUST BE FIELD VERIFIED.



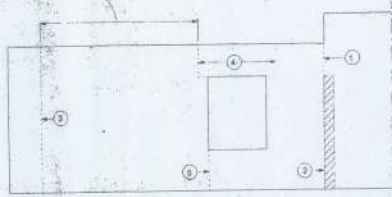
BETHLEHEM UNITED METHODIST CHURCH

128 SW NASSAU STREET
LANE CITY, FL 32025
(386) 756-4069
CERTIFICATE OF AUTHORIZATION # 6000701

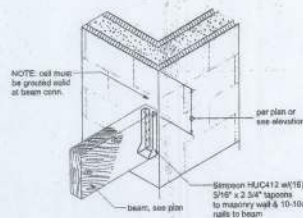


DATE	8/18/10	DRAWN BY	W.H.F.
REVIEW	JAB		
SHEET	5-3		
OF	4		
PROJECT NO.	05.C.028		

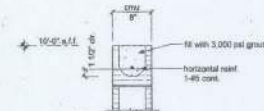
- Control joints should be spaced every 100' to 125' along exterior wall height and
1. At changes in wall height or thickness
 2. At columns, pilasters, and wall intersections
 3. Within 20' of corners
 4. On both sides of openings > 8'
 5. On one side of openings < 8'



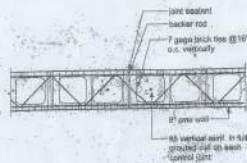
CONTROL JOINT LOCATION
NTS



1 BEAM/WALL CONNECTION
MAX. CAPACITY = 364K DOWN, 181K UPLIFT N/2 TO SCALE

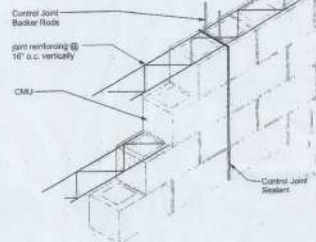


BOND BEAM REINF.
SCALE: 1" = 1'-0"

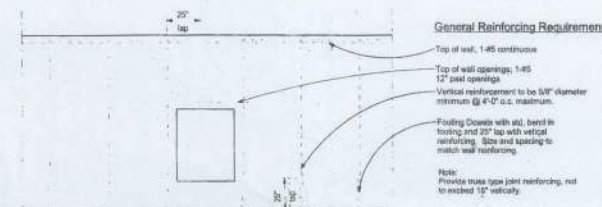


CONTROL JOINT PLAN
SCALE: 3/4" = 1'-0"

NOTE:
bond beam reinforcing shall be continuous through control joints.



CONTROL JOINT DETAIL
NTS



WALL REINFORCING REQUIREMENTS
NTS



Lintel Concrete Strength = 4000 psi
Fill Concrete Strength = 3000 psi
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	2-#2	2-#4
C	2-#3	2-#4
D	2-#3	2-#5
E	2-#4	2-#6



Lintel Concrete Strength = 4000 psi
Fill Concrete Strength = 3000 psi
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	NONE	2-#4
C	2-#2	2-#4

PRECAST LINTEL OVER OPENINGS

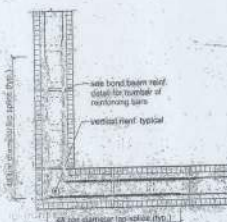
LENGTH	CLEAR SPAN	TYPE	FILLED + BEAM
4'-6"	3'-2"	A	6000+ PLF
7'-6"	6'-2"	B	5663 PLF
12'-0"	10'-8"	D	2181 PLF
17'-4"	16'-0"	E	1366 PLF

FILLED + BEAM = Acting as composite beam with an 8" perimeter beam
1-#5 rebar in lintel, 1-#5 rebar in perimeter beam

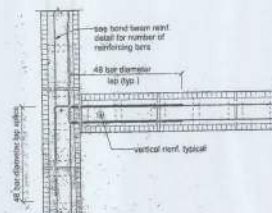
DOORWAY HEADER

DOOR SIZE	TYPE	FILLED + BEAM
3'-0"	A	6000+ PLF
5'-0"	B	5669 PLF
6'-0"	C	4262 PLF

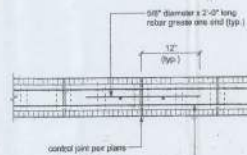
FILLED + BEAM = Acting as composite beam with an 8" perimeter beam
1-#5 rebar in lintel, 1-#5 rebar in perimeter beam



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



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



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

**BETHLEHEM UNITED
METHODIST CHURCH**

128 SW NASSAU STREET
LAKE CITY, FL 33225
(850) 798-4200



**Freeman
Design Group, Inc.**

DATE: 10/18/10
DRAWN BY: WLF

REVIS: 245

SHEET: 3-4

OF: 4

PRODUCT NO. 05.C.028

PLUMBING SPECIFICATIONS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND LOCAL ORDINANCES.
2. ALL PLUMBING SHALL BE 80% AS SPECIFIED OR OF EQUAL VALUE PROVIDING COLD WATER TO ALL PLUMBING FIXTURES AND HOT WATER TO ALL BATHROOMS.
3. PROVIDE SHOWN DRAIN WATER (BATH).
4. PROVIDE A SLOPE ON ALL WASTE LINES OF 1/8" PER FOOT OF RUN (MINIMUM) UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL WASTE LINES SHALL BE PVC (DWV).
6. ALL WATER LINES SHALL BE CPVC PIPE AND FITTINGS.
7. INSTALL AWC CHAMBERS AS SHOWN.
8. WATER SERVICE SHALL BE 3/4" OR 1" OR AS NECESSARY TO PROVIDE NECESSARY WATER PRESSURE FOR PLUMBING FIXTURES TO WORK PROPERLY.
9. ALL ROOF FLASHING SHALL BE GALVANIZED WITH NEOPRENE COLLARS.
10. ALL WATER PIPES, WHERE PASSING THROUGH MASONRY WALL OR CONCRETE SHALL HAVE PROTECTIVE SLEEVES.
11. PROVIDE PIPE SLEEVES OR CONCRETE RELIEVING ARCH AT ALL LOCATIONS WHERE SEWERS, PERS. PANS UNDER OR THROUGH CONCRETE FOOTINGS OR FOUNDATION ALL IN ACCORDANCE WITH THE STANDARD PLUMBING CODE.
12. ALL PVC PIPE SHALL BE SCHEDULE 40.
13. SPECIFY HEDS HOW MANY FEET OF SEWER AND WATER PIPE IS INCLUDED IN BID. SPECIFY PRICE PER FOOT FOR ADDITIONAL SEWER AND WATER PIPE.
14. ALL PLUMBING FIXTURES AND LABOR SHALL HAVE A STANDARD ONE YEAR WARRANTY FROM ISSUANCE OF CERTIFICATE OF OCCUPANTS.
15. ANY CHANGES TO THE PLUMBING THAT WILL RESULT IN PRICE INCREASE OR DECREASE SHALL NOT BE DONE UNTIL A WRITTEN CHANGE ORDER IS IN PLACE.

NOTE:
PROVIDE PLUMBING CLEAN-OUTS AT THE BASE OF ALL STACKS, A MAXIMUM OF 75' O.C. ALONG ALL MAIN DRAIN RUNS AND THE UPSTREAM ENDS OF MAIN DRAIN RUNS WHERE THE MAIN DRAIN DRAINS INTO THE BUILDING AND AT 75' INTERVALS TO THE DISPOSAL SITE.

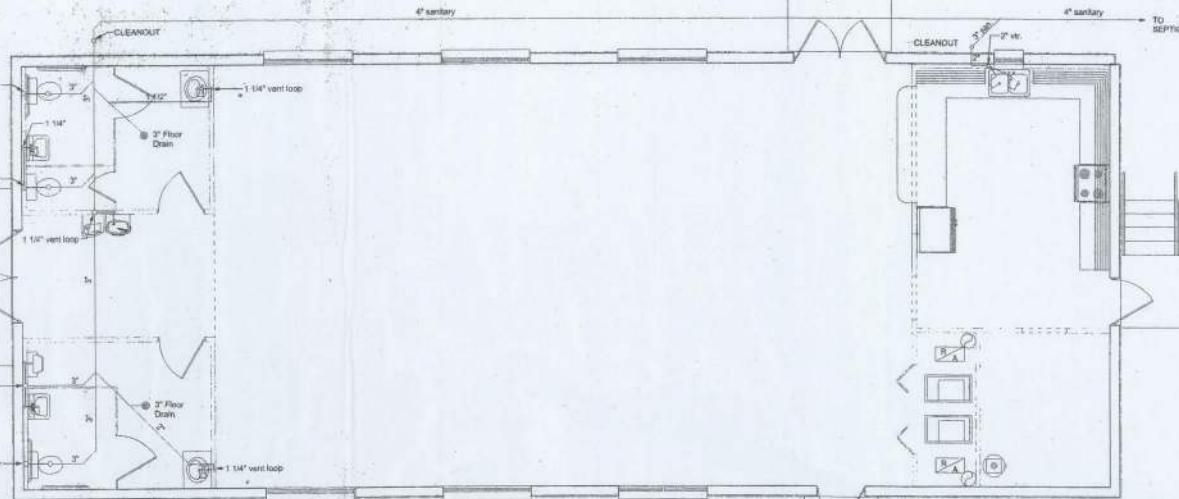
NOTE:
ADDED FILL SHALL BE APPLIED IN 8" LIFTS. EXIST SHALL BE COMPACTED TO 90% DRY COMPACTION PER THE MODIFIED PROCTOR METHOD.

NOTE:
PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS - PRIME EACH P.D. INDIVIDUALLY. DO NOT WATFOLD.

NOTE:
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONTR. SHALL PROVIDE 1 COPY OF "AS-BUILT" DRAWING TO OWNER AND 1 COPY TO THE PERMITTING AUTHORITY.

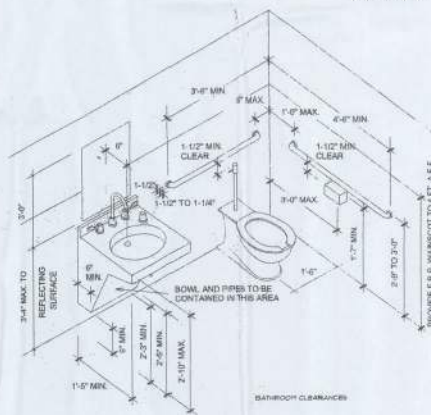
PLUMBING FIXTURE SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NO.	FIXTURE DESCRIPTION	CONNECTION SCHEDULE			
				WASTE	VENT	CW	HW
WC	TOTO	CT708N	18" HIGH VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL (WHITE) FLOOR MOUNTED WITH 1.6 GPF SEAT SCISS - OPEN FRONT LESS COVER FOR ELONGATED BOWL	3"	2"	1"	-
WC-HG	TOTO	CT708LN	18" HIGH VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL FLOOR MOUNTED W/ TANK 1.6 GPF SEAT SCISS - OPEN FRONT LESS COVER FOR ELONGATED BOWL	3"	2"	1"	-
LAV	TOTO	LTS12.4	VITREOUS CHINA COUNTER TOP LAVATORY FLOOR 1.6 GPF DRAINAGE WITH SINGLE LEVER HANDLE TYPED 1.6 GPF DRAINAGE WITH C.O. FLUSH SUPPLY 3/8" ANGLE TYPE WITH STOPS	2"	1 1/2"	1/2"	1/2"
LAV-HG	TOTO	LT307.4	VITREOUS CHINA WALL HUNG LAVATORY (HARDICAP) (WHITE) FLOOR 1.6 GPF DRAINAGE WITH SINGLE LEVER HANDLE TYPED 1.6 GPF DRAINAGE WITH C.O. FLUSH SUPPLY 3/8" ANGLE TYPE WITH STOPS PROVIDE SUTABLE COVERED W/IN CUMBER AND OFF SET TAILPIECE REGULATE TRAP, OUTLET 1/2" B & W SUPPLY TO MEET A.O.A.	2"	1 1/2"	1/2"	1/2"
UR	TOTO	UT44RE Top Spool Urinal	WALL HUNG VITREOUS CHINA FLUSH VALVE URINAL (WHITE) FLUSH VALVE - TOTO TRAP 1/2" O.D. 1/2" O.D. WATER CONNECTION 1/2" O.D. PER FLUSH MOUNT TOP OF FRONT RIM AT 24" A.F.F. PROVIDE SUTABLE TAILPIECE CHAMBER	3"	2"	3/4"	-
EW	ELKAY	LZ05TL9L3104	ELECTRIC WATER COOLER (BARRIER FREE) 81" L.D. 8.5 GPM CAPACITY 4.5 L.F.L. (201-45)	2"	1 1/2"	1/2"	-
FD	ZURN	2415B	FLOOR DRAIN WITH 75" STRAINER PROVIDE AUXILIARY ALLET FITTING FOR TRAP PRIMER CONNECTION	3"	2"	-	-
EW	WHEELPOOL	E1950R045V	30 GALLON ELECTRIC WATER HEATER 45 VOLT 250-140 21.5 AMP 220 VOLT WATER TEMP. CONTROLS TO 140 F	-	-	3/4"	3/4"
WH	ZURN	21705	WATER HAMMER ARRESTOR 1/2" PER P.D. 1/2" WH-201 VERIFY THAT COMPONENT IS ACCESSIBLE	-	-	-	-
CD	ZURN	21420	FLOOR CLEANOUT - PROVIDE SCREW COVER MATCH RISE OF FINE	-	-	-	-
DRK	ELKAY	DCR262210	DOUBLE BOWL DRINK 20 GAUGE TYPE 304 - SELF RIM - 3 HOLES DELTA 800-15 DRINK LEVER HANDLE FAUCET	2"	1 1/2"	1/2"	1/2"



PLUMBING PLAN

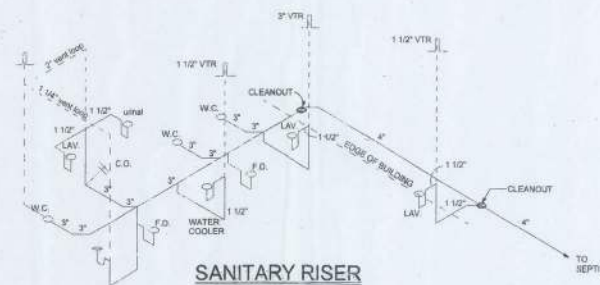
SCALE: 1/4" = 1'-0"



BATHROOM CLEARANCES

Plumbing Specifications

1. No foam core PVC piping shall be permitted.
2. All vertical plumbing shall be plumb to within 1/8" per 4'.
3. Use trap primer tail piece in lieu of mechanical type.
4. All hot water piping shall have 1" thick pipe insulation.
5. All water closet bonds shall have a stainless steel cap flange.
6. All cold water lines located in unoccupied areas shall have 1" thick insulation.



SANITARY RISER

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



BETHLEHEM UNITED
METHODIST CHURCH

128 SW MASSAU STREET
LAKE CITY, FL 32025



Freeman
Design Group

DATE: 8/19/10 DRAWN BY: W.H.F.
REVISIONS:
SHEET: P-1
OF:
PROJECT NO: 05.C/28

HVAC NOTES:

- SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES.
- HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM.
- HVAC SYSTEM SHALL BE AS DETAIL IN THE PLANS IF INCLUDED, OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
- HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR OUTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
- IT IS THE HVAC SUB-CONTRACTORS RESPONSIBILITY TO COMPLY WITH MECHANICAL AND ALL APPLICABLE CODES.
- FIXABLE DOOR SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM WITH 1/2" INS. FIBERGLASS INSULATION AND SHALL BE UL LISTED. SHEET METAL DUCT SHALL BE USED WITH UNFACED DUCT LINER & ANNEALED WITH 1/2" POLYFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE POLYFACED, 14.3195 6' OUTSIDE RADIUS.
- ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
- ALL AIR DIVIDERS SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION FOR FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALWAVE, NALCORP/NAVY, HART & COOK OR AS DIRECTED BY THE OWNER.
- IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER.
- HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER.
- ALL EXACT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSIONS.
- ALL EQUIPMENT SHALL BE FULLY WARRANTY FOR 1 YEAR AND THIS COMPRESSION SHALL BE WARRANTY 2 YEARS FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.
- ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR INTERFERENCE TO COMPLETION OF THE JOB.
- CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK ANOMAPLED INSULATION.
- FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT AND DISTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15 INCHES 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
- HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFF FETS, TUNING TIONS & SENSORS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTER IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
- COORDINATE WITH THE ELECTRICIAN, TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

NOTE:

EXITS AND EXIT ACCESS CORRIDORS SHALL NOT SERVE AS SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION AIR DUCTS OR PLENUMS.

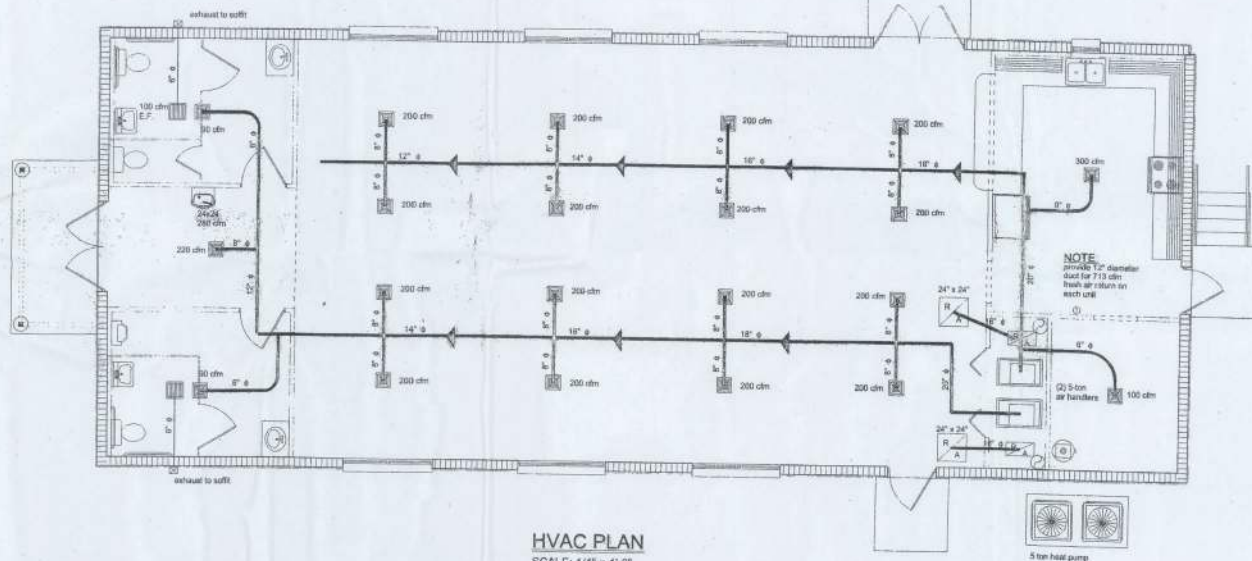
NOTE:
BATHROOM EXHAUST SHALL BE DIRECTED TO OUTSIDE OF BUILDING. EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS. AIR EXHAUST OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES IF TERMINATING OUT DOORS.

NOTE:
CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 1/2" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.

NOTE:
CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN CASES WHERE THE ROOF FAULT IS LESS THAN 1 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.

NOTE:

VERIFY WITH LOCAL A.H.J. FOR RANGE 1000 PERMITTING AND FIRE SUPPRESSION REQUIREMENTS.



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



BETHLEHEM UNITED METHODIST CHURCH

128 SW NASSAU STREET
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CERTIFICATE OF AUTHORIZATION & REVIEW



Freeman
Design Group

DATE: 5/19/10 DRAWN BY: HEP

REVISION:

SHEET: M-1

OF: 2

PROJECT NO.: 05.C028



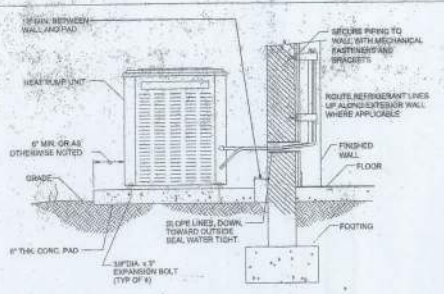
BETHLEHEM UNITED METHODIST CHURCH

122 SW NASSAU STREET
LAKE CITY, FL 32025
(850) 758-4200
CERTIFICATE OF AUTHORIZATION # 280007

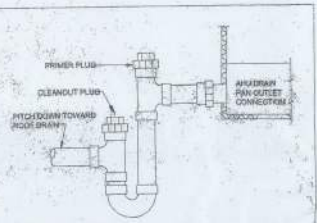


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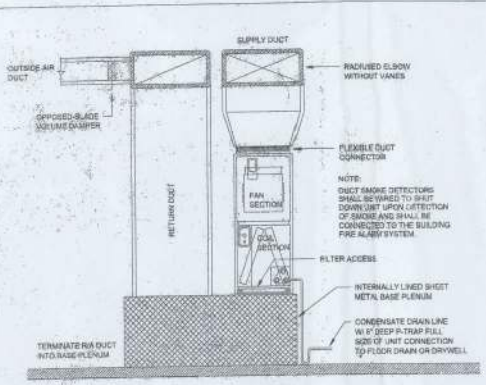
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PROJECT NO.	05.C.028



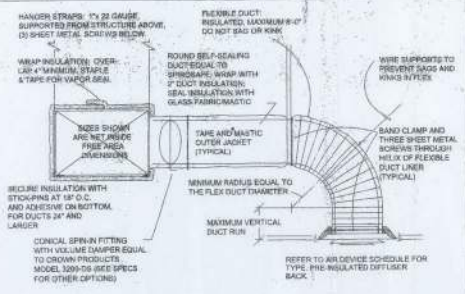
AIR-COOLED HEAT PUMP DETAIL



CONDENSATE TRAP DETAIL

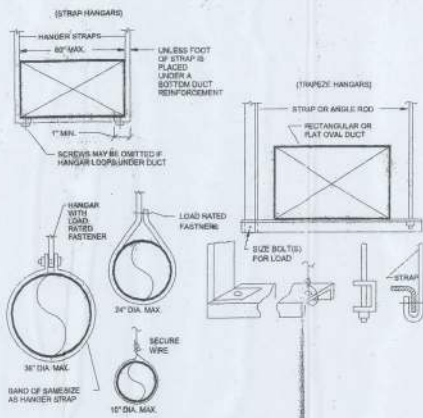


VERTICAL AIR HANDLING UNIT DETAIL



- DUCT FABRICATION NOTES:**
1. SHEET METAL DUCTS SHALL BE FABRICATED & INSTALLED PER THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS.
 2. ALTERNATE INTERPRETATIONS OF SMACNA DUCT MATERIAL, HANDERS AND REINFORCEMENTS ARE SUBJECT TO ENGINEER APPROVAL AND REQUIRE SEPARATE SUBMITTAL OF THE ALTERNATES.
 3. FLEXIBLE DUCT CONNECTIONS SHALL BE PROVIDED WHERE SHOWN ON THE PLAN.
 4. SUPPLY AIR DROPS FROM ROOFTOP UNITS SHALL TRANSITION FROM THE UNIT OPENING SIZE TO SQUARE NECK ELBOWS, WITH SIZE AS SHOWN ON THE PLAN. IF TWO SUPPLY AIR DUCT RUNS ARE AT THE UNIT, THEN TWO SEPARATE DROPS & ELBOWS SHALL BE PROVIDED.
 5. RETURN AIR DROPS FROM THE ROOFTOP UNITS SHALL BE FULL SIZE OF THE UNIT OPENING.
 6. ELBOWS SHALL BE SQUARE NECK (SAME IN OUT DIMENSIONS) WITH 12\"/>

CONCEALED DUCTWORK DETAIL



DUCTWORK SUPPORT DETAIL

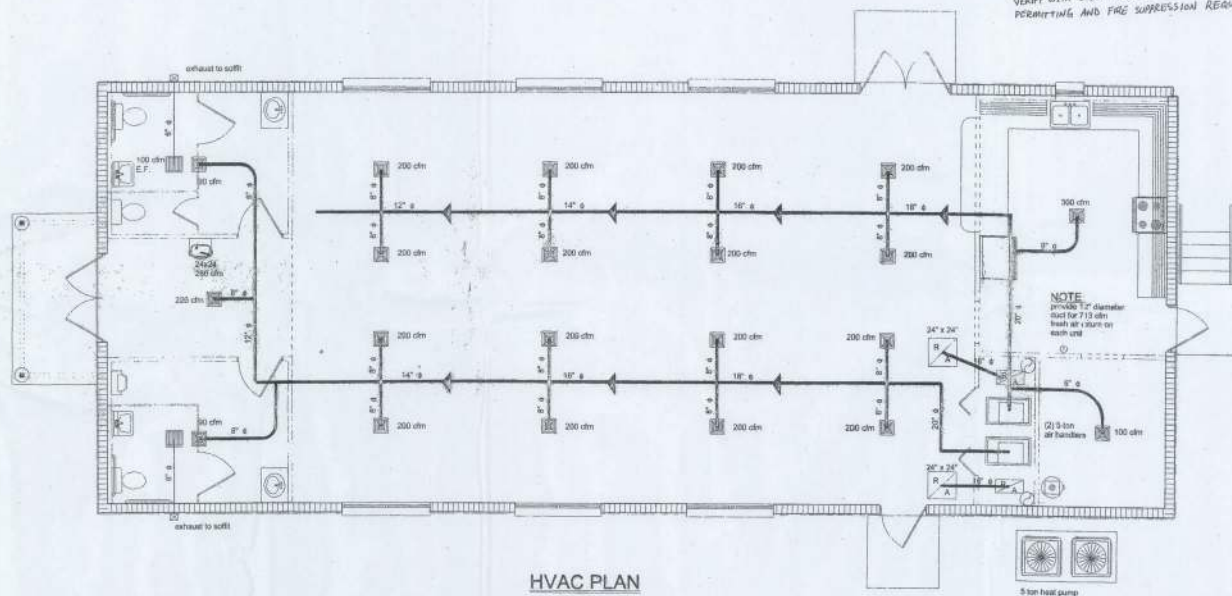
1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 7 THROUGH 6 GENERAL NOTES
2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL HANG, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM
3. HVAC SYSTEM SHALL BE AS INSTALLED IN THE PLANS IF INCLUDED OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR
4. HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR OUTDOOR CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES
5. IT IS THE MAJOR CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ANY AND ALL APPLICABLE CODES
6. FLEXIBLE COIL SHALL BE FULLY MANUFACTURED, COATED ALUMINUM COIL WITH 1/2" LEAK TIGHTNESS PERFORMANCE AND SHALL BE IT IS LISTED, TIGHTLY WOUND COIL SHALL BE MADE OF 1/2" MANUFACTURED COIL COILS WOUND IN THE COILS OF 3/8" BORE INSULATION ALL PERMANENT DUCT SHALL BE POLYURETHANE, RIGID, 2" THICK
7. ALL DUCTWORK AND DUCTS AIR DUCT SHALL BE GALVANIZED STEEL SHEET CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND OTHER AS STANDARDS
8. ALL AIR DUCTS SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL COILS, AIR HANDLER AND STEEL CONSTRUCTION FOR FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, HANCOCK, MALCOLM, HART & COOLE OR AS DIRECTED BY THE OWNER
9. IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUBMIT A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER
10. HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS, CONTROLS, THERMOSTATS, ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS A CONTROL WIRING, THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER
11. ALL DUCT SIZES INDICATED IN THE PLANS IF INCLUDED ARE NET INSIDE DIMENSION
12. ALL EQUIPMENT SHALL BE FULLY GUARANTEED FOR 1 YEAR AND THE CONTRACTORS SHALL BE GUARANTEED 5 YEARS FROM DATE OF FINAL ACCEPTANCE, BY THE OWNER
13. ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HARMAGE TO COMPLETION OF THE PROJECT
14. CONDENSATE DRAIN PIPING SHALL BE INSTALLED WITH 1/2" TRICK AIRSIDE DOWN
15. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE OF THE DISTANCE OF 10' TO A CLEAN REPAIR OR 10' TO 15' PROVIDE 3 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE
16. HVAC SUB-CONTRACTOR SHALL PROVIDE A INSTALL ALL NECESSARY ELECTRICAL WIRING AND WIRING TO PROVIDE A COMPLETE SYSTEM TO THE ADDITIONAL COST TO THE OWNER
17. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING OUTLETS, GRILLS AND REGISTERS IN THE FIELD WITH THE ELECTRICAL LIGHTS AND ARCHITECTURAL ELEMENTS
18. COORDINATE WITH THE ELECTRICAL TO ASSURE SUITABLE SIZES AND LOCATIONS FOR ALL WIRING

NOTE:
EXITS AND EXIT ACCESS CORRIDORS SHALL NOT SERVE AS SUPPLY,
RETURN, EXHAUST, RECIPIE OR VENTILATION AIR DUCTS OR PLenums

NOTE:
BATHROOM EXHAUST SHALL BE DIRECTED TO OUTSIDE OF BUILDING.
EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS. AIR
EXHAUST OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT
SCREENS, LOUVERS OR GRILLS IF TERMINATING OUT DOORS.

NOTE:
CONDENSATE WASTE AND DRAIN LINE SIZE SHALL
BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND
SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN
CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL

NOTE:
CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE
AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN
CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS
MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT
FROM THE STRUCTURE.



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

NOTE:
VERIFY WITH LOCAL A.H.J. FOR RANGE HOOD
PERMITTING AND FIRE SUPPRESSION REQUIREMENTS.



BETHLEHEM UNITED
METHODIST CHURCH

128 SW NASSAU STREET
LAKE CITY, FL 32025
3841754/1900



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Design Group

and the fact that the number of cases is small.

DATE 8/19/10	DRAWN BY WCHLF
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OF	2
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BETHLEHEM UNITED METHODIST CHURCH

128 SW NASSAU STREET
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(904) 758-4299
CERTIFICATE OF AUTHORIZATION & REGISTRATION



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Design Group

DATE
5/19/10

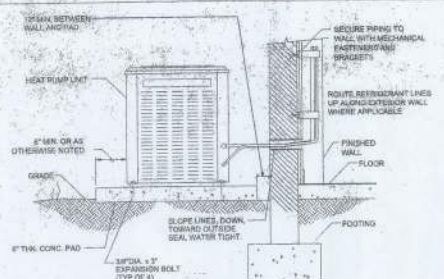
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W.R.F.

REVISIONS

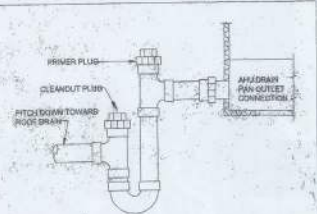
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2

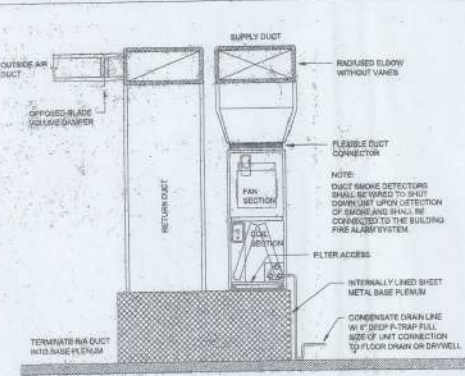
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05.C-028



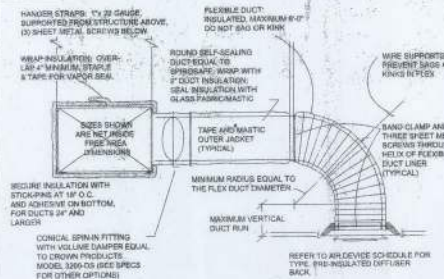
AIR-COOLED HEAT PUMP DETAIL
NOT TO SCALE



CONDENSATE TRAP DETAIL
NOT TO SCALE

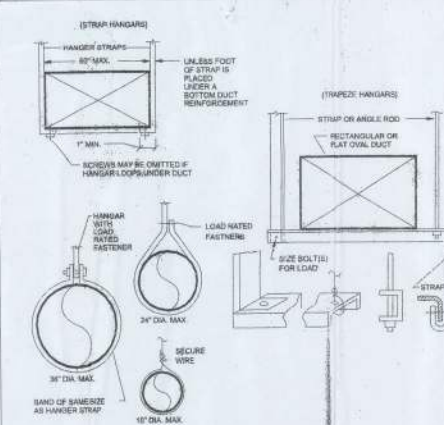


VERTICAL AIR HANDLING UNIT DETAIL
NOT TO SCALE



- DUCT FABRICATION NOTES:**
1. SHEET METAL DUCTS SHALL BE FABRICATED & INSTALLED PER THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS.
 2. ALTERNATE INTERPRETATIONS OF SMACNA DUCT MATERIAL, HANGERS AND REINFORCEMENTS ARE SUBJECT TO ENGINEER APPROVAL, AND REQUIRE SEPARATE SUBMITTAL OF THE ALTERNATES.
 3. FLEXIBLE DUCT CONNECTIONS SHALL BE PROVIDED UNLESS SHOWN ON THE PLAN.
 4. SUPPLY AIR DROPS FROM ROOFTOP UNITS SHALL TRANSITION FROM THE UNIT DRIVING SIZE TO SQUARE NECK ELBOWS, WITH SIZES AS SHOWN ON THE PLAN. IF TWO SUPPLY AIR DUCT RUNS ARE AT THE UNIT, THEN TWO SEPARATE DROPS & ELBOWS SHALL BE PROVIDED.
 5. RETURN AIR DROPS FROM THE ROOFTOP UNITS SHALL BE FULL SIZE OF THE UNIT DRIVING.
 6. ELBOWS SHALL BE SQUARE NECK (SAME IN DUCT DRIVING) WITH 1" DOUBLE C TRIMMING.
 7. OFFSETS SHALL NOT REDUCE THE FREE AREA AND SHALL NOT EXCEED 30". A RADIUS HELL HELL SHALL BE PROVIDED OR 30" OFFSETS. SMALLER OFFSETS SHALL BE MITERED AT BOTH THE HELL & T-PIED.
 8. TRANSITIONS SHALL NOT EXCEED 1/3 RATIO 1/2" TRANSITION PER FOOT SINGLE SIZED TRANSITION, AND 1/4" PER FOOT DOUBLE SIZED TRANSITION.
 9. INSULATION SHALL BE 1/2" MINIMUM, WITH MINIMUM 2" IN VALUE. WAP INSULATION SHALL BE 1" THICKNESS ALUMINUM FOLY/MASTIC. UNDER SHALL BE 1" THICK. 1-1/2" FOR DENSITY.
 10. RECTANGULAR BRANCH CONNECTIONS SHALL BE 45° ENTRY TYPE PER SMACNA FIGURE 5-6.
 11. ROUND DUCT CONNECTIONS SHALL BE WITH CROWN PRODUCTS COMPANY 1200-04 FITTING, DAMPER AND HANDLE. SPRAY PAINT LOCATIONS OF HANDLES.
 12. FLEXIBLE DUCT SHALL INCLUDE AN INNER-ROOFING LINE UNDER A SPRING HELIX 1/4" BLANKET INSULATION (W-4.5), A FOIL OUTER VAPOR BARRIER, AND BE UL-181 APPROVED.
 13. SEAL ALL SUPPLY, RETURN & OUTSIDE AIR DUCT JOINTS WITH DUCT SEALER (SAL AL), INSULATION JOINTS WITH GLASS FIBRE AND MASTIC.

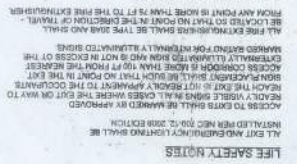
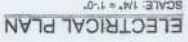
CONCEALED DUCTWORK DETAIL
NOT TO SCALE



DUCTWORK SUPPORT DETAIL
NOT TO SCALE

LOAD CALCULATIONS	
CONTROLS	0.30 VA
WATER HEATING	1.20
OUTER LIGHTING	0.30 VA
INTERIORS	8.00 VA
REFRIGERATORS	1.50 VA
AIR CONDITIONER	6.00 VA
RANGE	1.0
TOTAL	17.3
120/240/3 PHASE	43.50 VA
PROVIDED SERVICE	2000 VA

1. **Phylogeny** is the study of the evolutionary relationships among various biological species based on their physical and/or genetic characteristics.
2. **Phylogenetic tree** is a diagram that represents the evolutionary relationships among organisms. It is a branching diagram that shows the common ancestry of a group of organisms.
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WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT
PER MANUF. SPECIFICATIONS.
CONSULT THE OWNER FOR THE NUMBER OF SEPARATE
TELEPHONE LINES TO BE INSTALLED.
INSTALLATION SHALL BE PER NATL. ELECTRIC CODE.

[illegible]

The nearest A/C rating for canal boats, barges and disconnect switches shall be 22,500 A/C.