CHRIST CENTRAL MINISTRIES

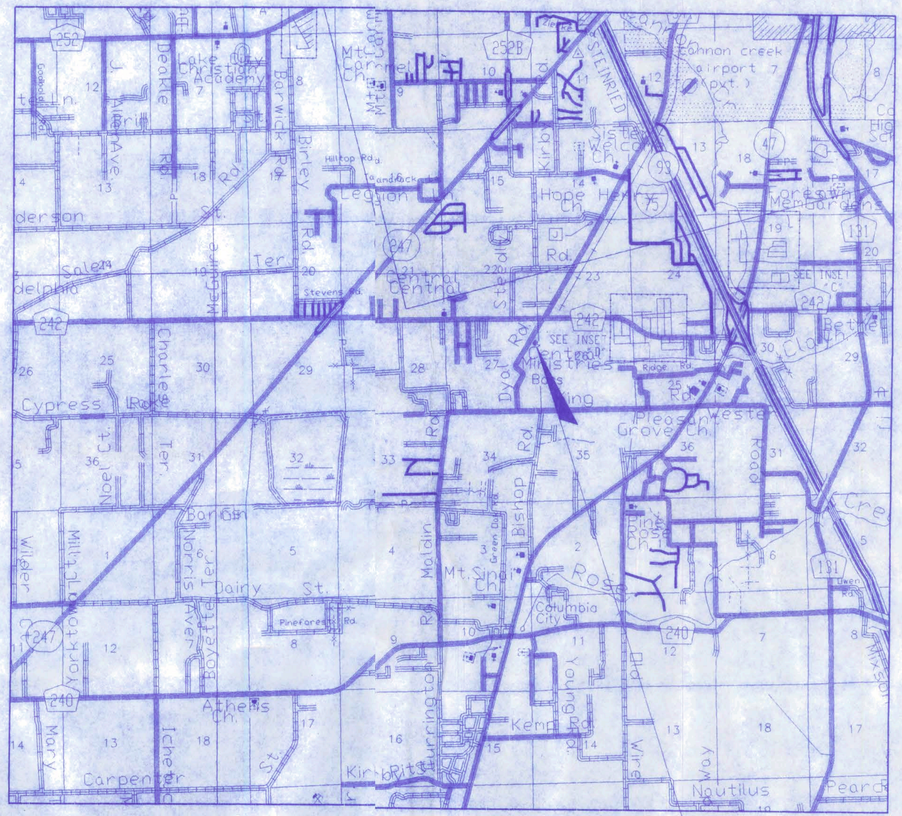
DYAL ROAD, LAKE CITY
COLUMBIA COUNTY, FLORIDA

Development Information:

CHRIST CENTRAL MINISTRIES
STORAGE BUILDING - NEW CONSTRUCTION
42.60± ACRES
PROJECT LOCATION:
DYAL ROAD, LAKE CITY, FLORIDA
PARCEL IDs: # 26-4S-16-03189-003 & 26-4S-16-03189-01
SECTION 26, TOWNSHIP 4 S, RANGE 16 E
ZONING: AGRICULTURAL (A-3)
EXISTING USE: CHURCH
FUTURE LAND USE PLAN MAP CATEGORY: AGRICULTURAL

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LOCATION MAP

NOT TO SCALE

PROJECT LOCATION

PLANS PREPARED FOR:

CHRIST CENTRAL MINISTRIES
LOCAL CONTACT:
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ENGINEER AND PLANNER:

Freeman Design Group inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386) 758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

NOTE:
THE SCALE OF THESE PLANS MAY HAVE
BEEN CHANGED DUE TO REPRODUCTION

LEGAL DESCRIPTION:
PARCEL "A"
COMMENCE AT THE SE CORNER OF THE SW 1/4 OF THE NW 1/4 OF SECTION 26, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN N.00°47'02"W., ALONG THE EAST LINE OF THE WEST 1/2 OF THE NW 1/4 OF SAID SECTION 26, 2631.32 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 242; THENCE S.89°13'02"W., ALONG SAID RIGHT-OF-WAY LINE, 358.97 FEET TO A CONCRETE MONUMENT MARKING THE POINT OF BEGINNING; THENCE S.89°13'02"W., STILL ALONG SAID RIGHT-OF-WAY LINE, 306.66 FEET TO ITS INTERSECTION WITH THE EAST RIGHT-OF-WAY LINE OF SW DYAL AVENUE; THENCE S.09°39'57"W., ALONG SAID EAST RIGHT-OF-WAY LINE, 496.40 FEET TO AN IRON PIPE; THENCE N.87°59'05"E., 305.62 FEET TO A CONCRETE MONUMENT; THENCE N.89°26'43"E., 493.05 FEET TO THE POINT OF BEGINNING.
ALSO PARCEL "B"
COMMENCE AT THE SW CORNER OF THE SW 1/4 OF THE NW 1/4, IN SECTION 26, TOWNSHIP 4 SOUTH, RANGE 16 EAST, AND RUN THENCE S.89°39'39"W., A DISTANCE OF 50.07 FEET; THENCE N.02°13'06"W., A DISTANCE OF 575.00 FEET; THENCE N.87°46'39"E., A DISTANCE OF 417.89 FEET; THENCE N.02°13'30"W., A DISTANCE OF 650.56 FEET TO THE POINT OF BEGINNING; THENCE S.87°46'39"W., A DISTANCE OF 442.96 TO THE EAST RIGHT-OF-WAY LINE OF THE NEW DYAL ROAD; THENCE N.09°39'39"E., ALONG SAID EAST RIGHT-OF-WAY, 951.57 FEET; THENCE N.87°46'39"E., A DISTANCE OF 401.65 FEET; THENCE S.02°13'39"E., A DISTANCE OF 815.00 FEET; THENCE S.87°46'39"W., A DISTANCE OF 430.89 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA. CONTAINING 12.09 ACRES, MORE OR LESS.
ALSO PARCEL "C"
SECTION 26, TOWNSHIP 4 SOUTH, RANGE 16 EAST
PART OF THE WEST HALF OF THE NW 1/4 OF SAID SECTION 26, COLUMBIA COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE SW CORNER OF THE SW 1/4 OF THE NW 1/4 OF SAID SECTION 26; THENCE N.89°44'04"E. ALONG THE SOUTH LINE OF SAID NW 1/4 A DISTANCE OF 882.95 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.89°44'04"E. ALONG SAID SOUTH LINE, 697.75 FEET TO THE SE CORNER OF THE AFOREMENTIONED SW 1/4 OF THE NW 1/4; THENCE N.02°43'03"W. ALONG THE EAST LINE OF SAID WEST HALF OF THE NW 1/4 A DISTANCE OF 2631.06 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 242 (A 100 FOOT WIDE PUBLIC RIGHT-OF-WAY AS PRESENTLY ESTABLISHED); THENCE S.89°16'23"W. ALONG SAID RIGHT-OF-WAY LINE, 600 FEET; THENCE S.02°59'47"E., 1081.57 FEET; THENCE S.87°46'39"W., 630.70 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF THE OLD ACL RAILROAD; THENCE S.09°26'39"W. ALONG SAID WESTERLY LINE 419.89 FEET; THENCE N.87°46'39"E., 409.97 FEET TO A POINT ON THE WEST LINE OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 686, PAGE 732 OF THE OFFICIAL RECORDS OF COLUMBIA COUNTY, FLORIDA; THENCE S.00°15'01"E. ALONG SAID WEST LINE, 815.00 FEET TO THE SOUTHERLY MOST NW CORNER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 764, PAGE 1049 OF SAID OFFICIAL RECORDS; THENCE S.40°49'09"E. ALONG THE WEST LINE OF SAID LANDS, 1040.19 FEET TO THE POINT OF BEGINNING. CONTAINING 30.36 ACRES, MORE OR LESS. BEING THE SAME LANDS AS THOSE DESCRIBED IN OFFICIAL RECORDS BOOK 1049D, 680, PAGE 732 AND DB 764, PAGE 1049 OF THE OFFICIAL RECORDS OF COLUMBIA COUNTY, FLORIDA, AND THOSE LANDS DEEDED TO PHILIP D. ENGLE AND HIS WIFE, CHERYL D. ENGLE BY COLUMBIA SERVICE COMPANY, INC.

William H. Freeman
11/9/09
P.E. NO: 56001

GENERAL NOTES

GENERAL PROJECT DATA

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED AS SHOWN. ANY REVISIONS THEREAFTER WILL BE NOTED AND DATED ON THE AFFECTED DRAWINGS(S).

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS TO THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITYWHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY TH RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

DRAINAGE SYSTEMS

THE CONTRACTOR SHALL PERFORM ALL WORK PERTAINING TO DAINAGE INCLUDING EXCAVATION OF WRA'S PRIOR TO THE COMMENCEMENT OF OTHER WORK INCLUDD IN THESE PLANS. THE DRAINAGE FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE COURSE OF THIS CONTRACT. THE CONTRACTOR SHALL INCLUDE FUNDS IN THE DRAINAGE COSTS O THE CONTRACT TO OPERATE AND MAINTAIN THE DRAINAGE SYSTEMS DURING THE WORK PROCESS

THE CONTRACTOR IS TO OBTAIN A COPY OF THAT SOILS REPORT FOR REVIEW PRIOR TO CONSTRUCTION; AND THE CONSTRUCTION IS TO CONFORM TO THE RECOMMENDATIONS IN THAT REPORT.

AS-BUILTS

AS-BUILTS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER TWO WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED, AND DATED BY THE RESPONSIBLE PARTY. SEE INDIVIDUAL SECTIONS (STORM, WATER SYSTEM, ETC.) FOR ADDITIONAL AS-BUILT REQUIREMENTS.

PERMITS AND PERMIT REQUIREMENTS

THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL REGULATORY AND LOCAL AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO RVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS. A COPY OF THE PERMIT SHALL BE KEPT ON THE JOB AT ALL TIMES.

LAYOUT AND CONTROL

UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SALL PROVIDE FOR THE LAYOUT OF ALL OF THE WORK TO BE CONSTRUCTED. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

QUALITY CONTROL TESTING REQUIREMENTS

ALL TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR, COUNTY, AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCEWITH THE OWNER/OPERATOR'S SPECIFICATIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS. CONTRACTOR SHALL PROVIDE TESTING SERVICES THROUGH A FLORIDA LICENSES GEOTECHNICAL ENGINERING FIRM ACCEPTABLE TO THE OWNER AND ENGINEER. CONTRACTOR TO SUBMIT TESTING FIRM TO OWNER FOR APPROVAL PRIOR TO COMMENCING TESTING.

SHOP DRAWINGS

SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAG, WATER SYSTEM, SEWER SYSTEM, AND PAVING SYSTEM MATERIALS AND STRUCTURES ARE REQUIRD. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

EARTHWORK

EARTHWORK QUANTITIES

THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIAL.

EROSION CONTROL

EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TOBE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS, AS REQUIRED. REFER TO WATER MANAGEMEN DISTRICT PERMIT FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFAE DRAINAGE.

LIMITS OF DISTURBANCE

AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. REPAIR OR RECONSTRUCTION OF DAMAGED AREAS ON SURROUNDING PROPERTIES SHALL BE PERFORMED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.

THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES SHOWN ON THE CONSTRUCTION PLANS AS BEING SAVED SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER AND ENGINEER.
NOTE:
THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANS FOR TREE BARRICADING INFORMATION.

SCREENING:

WALLS AND FENCES SHALL BE LANDSCAPED ALONG THE ENTIRE EXTERIOR SIDE SO THAT ONE-THIRD OR MORE OF THE VERTICAL FACE OF THE FENCE OR WALL IS SCREENED BY PLANTINGS. THE APPLICANT SHALL BE REQUIRED TO DEMONSTRATE PROVISION FOR ACCESS AND MAINTENANCE OF LANDSCAPING AT THE TIME OF LANDSCAPE OR PLANTING PLAN APPROVAL.

CLEARING AND GRUBBING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, UTILITIES, DRAINAGE FACILITIES AND BUILDING CONSTRUCTION. ALL AREAS TO BE CLEARED SHALL BE FIELD STAKED AND REVIEWED BY THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION.

MATERIAL STORAGE/DEBRIS REMOVAL

ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NONORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE. ALL CLAY ENCOUNTERED SHALL BE EXCAVATED OUT AND REPLACED WITH CLEAN GRANULAR FILL MATERIALS.

FILL MATERIAL

ALL FILL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING BACKFILL. FILL SHALL BE CLEAN, NON-ORGANIC, GRANULAR MATERIAL WITH NOT MORE THAN 10% PASSING THE NO. 200 SIEVE.

COMPACTION

FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER FILL AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL FOR THE AFFECTED WORK.

PAVEMENT AND/OR ROAD AND R/W WORK

GENERAL DESIGN INTENT

ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADES TO INTERSECTIONS WILL HAVE TO BE STAKED IN THE FIELD AT DIFFERENT GRADES THAN THE CENTERLINE GRADES SHOWN ON THE PLANS. IN THESE AREAS, IT MAY ALSO BECOME ADVISABLE TO MAKE MINOR LOCAL FIELD ADJUSTMENTS IN THE CENTERLINE GRADES TO ACCOMPLISH THE PURPOSES OUTLINED. IN ADDITION, THE STANDARD CROWN WILL HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.

MATERIALS/CONSTRUCTION SPECIFICATIONS

MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

PAVEMENT SECTION REQUIREMENTS

CONSTRUCTION OF ROADWAYS SHALL BE 8" OF STABILIZED SUBBASE WITH A LIMEROCK BEARING RATIO OF (LBR) 40 COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180, 6" OF LIMEROCK BASE COURSE, (LBR) 100, COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180 AND 1 1/4" TYPE S-1 OF VIRGIN ASPHALTIC CONCRETE SURFACE COURSE WITH A MINIMUM STABILITY OF 1500 LBS. SUBGRADE PREPARATION AND PAVEMENT INSTALLATION SHALL CONFORM TO FDOT STANDARDS AND SOILS REPORT RECOMMENDATIONS.

SIDEWALKS

SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE 5' SIDEWALK SHALL BE CONSTRUCTED OF 4" OF CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 2500 PSI. JOINTS SHALL BE EITHER TOOLED OR SAWCUT AT A DISTANCE OF 5' LENGTHS, HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND BE IN ACCORDANCE WITH STATE REGULATIONS FOR HANDICAP ACCESSIBILITY.

PAVEMENT MARKINGS/SIGNAGE

PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED AS SHOWN ON THE CONSTRUCTION PLANS AND SHALL MEET THE REQUIREMENTS OF THE OWNER/OPERATOR. SIGNAGE SHALL BE IN CONFORMANCE WITH MUTCD (LATEST EDITION). A 48-HOUR PAVEMENT CURING TIME WILL BE PROVIDED PRIOR TO APPLICATION OF THE PAVEMENT MARKINGS. REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 17352.

TRAFFIC CONTROL

A MINIMUM OF 2-WAY ONE LANE TRAFFIC SHALL BE MAINTAINED IN THE WORK SITE AREA. ALL CONSTRUCTION WARNING SIGNAGE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND BE MAINTAINED THROUGHOUT CONSTRUCTION. ACCESS SHALL BE CONTINUOUSLY MAINTAINED FOR ALL PROPERTY OWNERS SURROUNDING THE WORK SITE AREA. LIGHTED WARNING DEVICES ARE TO BE OPERATIONAL PRIOR TO DUSK EACH NIGHT DURING CONSTRUCTION.

CURBING

CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "1" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 2500 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (1991) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

R/W RESTORATION

ALL AREAS WITHIN THE RIGHT-OF-WAY SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE RAKED CLEAN OF ALL LIMEROCK AND ROCKS AND SODDED AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SEED OR SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

SITE ACCESS

ALL ACCESS TO THE JOB-SITE FOR CONSTRUCTION AND RELATED ACTIVITIES SHALL BE BY EXISTING STREETS AND ROADS, OR BY THE CONSTRUCTION EASEMENT.

CONSTRUCTION NOTES:

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.

THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.

ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION.

THE STORMWATER BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 40B-4 F.A.C.

THE RETENTION BASIN SHALL BE CONSTRUCTED INITIALLY TO SERVE AS A SEDIMENT TRAP DURING CONSTRUCTION.

ALL SLOPES OF THE STORMWATER BASIN AND OUTFALL DITCHES SHALL BE SEEDED & MULCHED. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.

ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG TERM VEGETATION AND QUICK GROWING SHORT TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG TERM SEED AND 20 POUNDS PER ACRE OF MILLET.

A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES, OUTFALL DITCHES AND COLLECTION PIPE OUTLETS.

EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED.

THE CONTRACTOR SHALL WASTE ALL EXCESS EARTH ON SITE AS DIRECTED BY THE ENGINEER

THE CONTRACTOR SHALL ADHERE TO THE EROSION CONTROL PLAN, SHEET C-3, BEFORE COMMENCING ANY EARTHWORK ON THE SITE.

11/1/08
P.E. #50011

CHRIST CENTRAL MINISTRIES

128 SW NASSAU STREET
LAKE CITY, FL. 32025
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CERTIFICATE OF AUTHORIZATION # 00030701
Freeman Design Group Inc

DATE	DRAWN BY
9/17/08	W.H.F.

REVISIONS

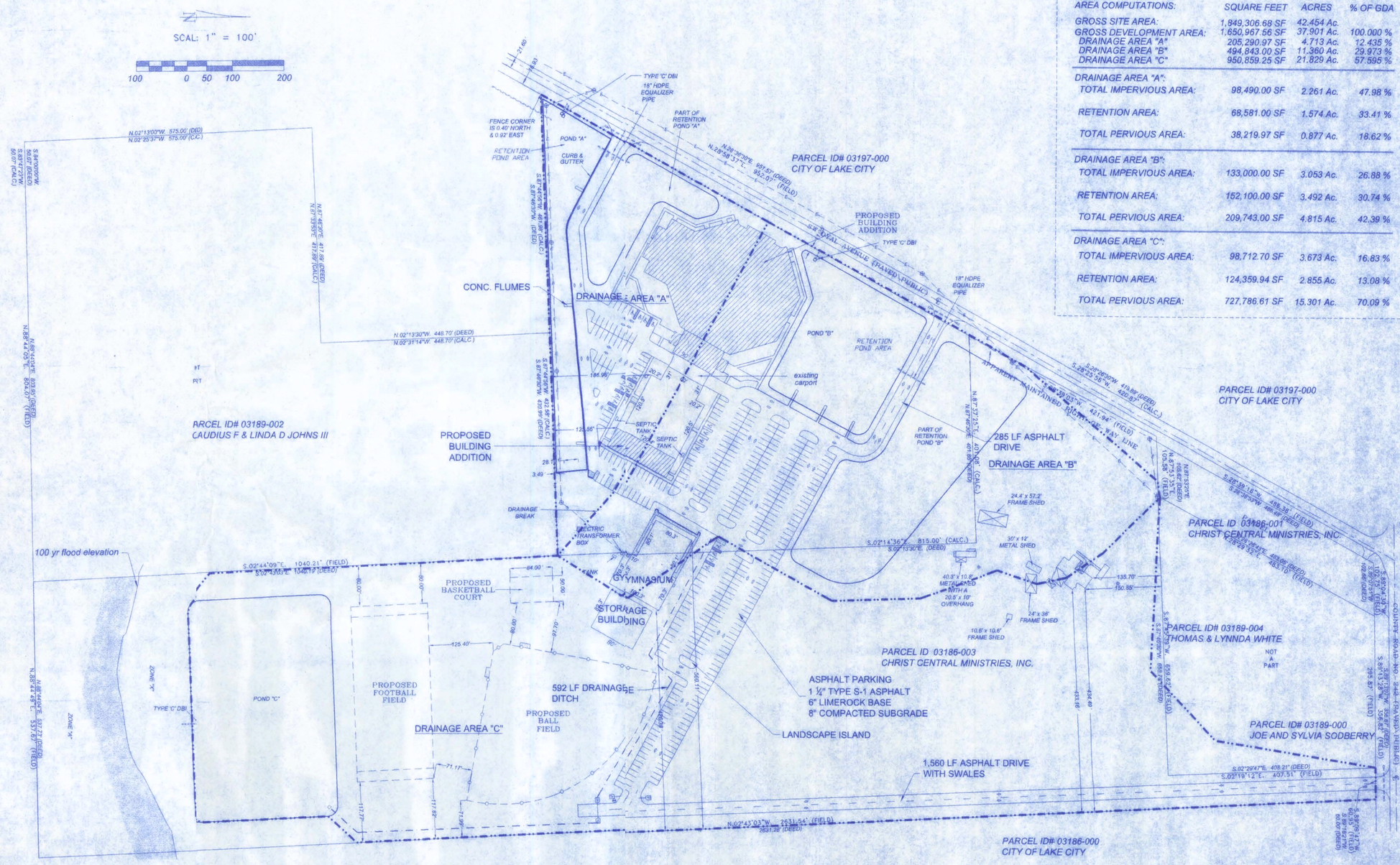
SHEET C-1
OF 25

PROJECT NO.
08033

MASTER DRAINAGE PLAN

for: CHRIST CENTRAL MINISTRIES
COLUMBIA COUNTY, FLORIDA

PROJECT:	MASTER DRAINAGE PLAN		
LEGAL DESCRIPTION:	REFER TO ATTACHED SURVEY		
ZONING:	COMMERCIAL GENERAL		
AREA COMPUTATIONS:	SQUARE FEET	ACRES	% OF GDA
GROSS SITE AREA:	1,849,306.68 SF	42.454 Ac.	
GROSS DEVELOPMENT AREA:	1,650,967.56 SF	37.901 Ac.	100.000 %
DRAINAGE AREA "A"	205,290.97 SF	4.713 Ac.	12.435 %
DRAINAGE AREA "B"	494,843.00 SF	11.360 Ac.	29.973 %
DRAINAGE AREA "C"	950,859.25 SF	21.829 Ac.	57.595 %
DRAINAGE AREA "A":			
TOTAL IMPERVIOUS AREA:	98,490.00 SF	2.261 Ac.	47.98 %
RETENTION AREA:	68,581.00 SF	1.574 Ac.	33.41 %
TOTAL PERVIOUS AREA:	38,219.97 SF	0.877 Ac.	18.62 %
DRAINAGE AREA "B":			
TOTAL IMPERVIOUS AREA:	133,000.00 SF	3.053 Ac.	26.88 %
RETENTION AREA:	152,100.00 SF	3.492 Ac.	30.74 %
TOTAL PERVIOUS AREA:	209,743.00 SF	4.815 Ac.	42.39 %
DRAINAGE AREA "C":			
TOTAL IMPERVIOUS AREA:	98,712.70 SF	3.673 Ac.	16.83 %
RETENTION AREA:	124,359.94 SF	2.855 Ac.	13.08 %
TOTAL PERVIOUS AREA:	727,786.61 SF	15.301 Ac.	70.09 %



MASTER SITE PLAN

Freeman Design Group INC.
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386) 755-4200
CERTIFICATE OF AUTHORIZATION # EB0003791

CHRIST CENTRAL MINISTRIES

DATE 9/17/08	DRAWN BY W.H.F.
REVISIONS	
SHEET C-2	
OF 25	
PROJECT NO. 08.033	

EROSION AND SEIMENT CONTROL NOTES:

EROSION AND EDIMENTATION CONTROL MEASURES SHALL COMPLY WITH MINIMUM STANARDS FROM APPLICABLE STORMWATER MANAGEMENT CRITERIA ADOPTED. SOIE OF THESE STANDARDS ARE AS FOLLOWS:

1. SEDIMENT BARIERS/SCREENS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHAL BE CONSTRUCTED OR INSTALLED AS A FIRST STEP IN ANY LAND DISTURBIG ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LANDISTURBANCE TAKES PLACE.

2. ALL SEDIMENT ONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS ATHE TIME OF CONSTRUCTION AND BE INSTALLED PRIOR TO ANY GRADING F EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT AND RASH FROM FLOWING OR FLOATING ONTO ADJACENT PROPERTIES.

3. PERMANENT OITEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTIO OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN AYS TO DENUDED AREAS THAT MAY BE AT FINAL GRADE BUT WILL REMAIN UDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION HALL BE APPLIED TO AREAS THAT ARE LEFT UNDISTURBED FOR MORE THA ONE YEAR.

4. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE REVIEWER, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

5. RAINFALL SHALL BE MEASURED AND RECORDED. ONCE A WEEK OR AFTER RAINFALL AMOUNTS OF 0.5 INCHES OR A FDEP FORM REPORT SHALL BE FAXED TO THE APPROPRIATE FDEP OFFICE. SEDIMENT CONTROL STRUCTURES AND DEVICES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVISES SHALL BE CORRECTED IMMEDIATELY.

6. ANY CONCENTRATED RUN-OFF SHALL NOT FLOW DOWN CUT SLOPES OR FILL SLOPES, UNLESS CONTAINED WITHIN ADEQUATE TEMPORARY CHANNELS OR SLOPE DRAIN STRUCTURES.

7. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

8. SEDIMENT THAT ENTERS THE STORM SYSTEM SHALL BE FILTERED THROUGH THE USE OF FILTER SCREENS DURING CONSTRUCTION TO MINIMIZE SEVERE SEDIMENT DEPOSITS. PRIOR TO THE PLACEMENT OF FINAL STABILIZATION, SEDIMENT SHALL BE REMOVED FROM AFFECTED AREAS

9. BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS/SWALES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL/SWALE AND RECEIVING CHANNEL/DITCH.

10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES AND DEVICES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKDAY.

11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. ANY SEDIMENT DEPOSITED ONTO PAVED AREAS SHALL BE SWEPT/SHOVELED AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA AT THE END OF EACH DAY. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.

12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED. IN THE OPINION OF THE REVIEWER, DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

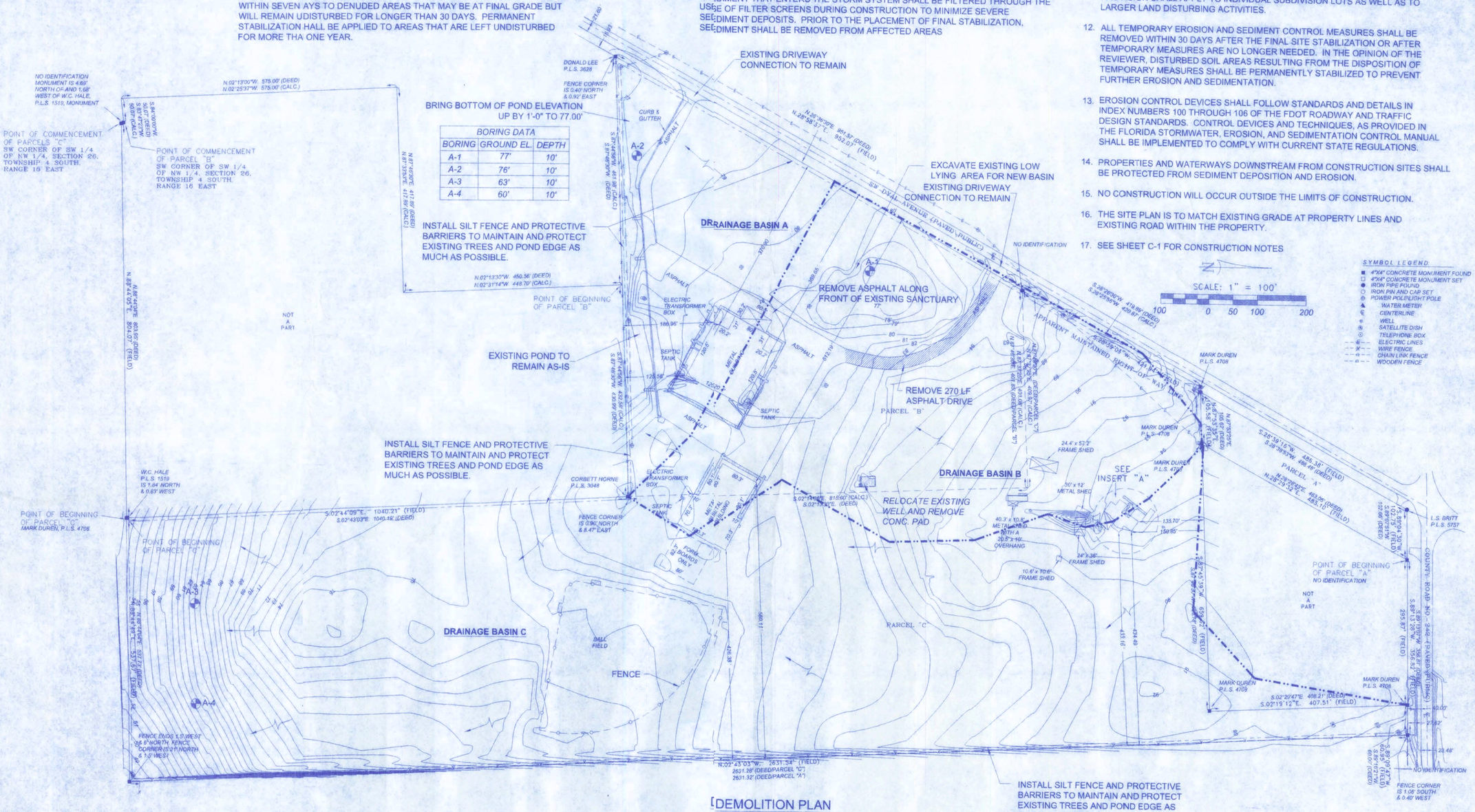
13. EROSION CONTROL DEVICES SHALL FOLLOW STANDARDS AND DETAILS IN INDEX NUMBERS 100 THROUGH 106 OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS. CONTROL DEVICES AND TECHNIQUES, AS PROVIDED IN THE FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL MANUAL SHALL BE IMPLEMENTED TO COMPLY WITH CURRENT STATE REGULATIONS.

14. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION.

15. NO CONSTRUCTION WILL OCCUR OUTSIDE THE LIMITS OF CONSTRUCTION.

16. THE SITE PLAN IS TO MATCH EXISTING GRADE AT PROPERTY LINES AND EXISTING ROAD WITHIN THE PROPERTY.

17. SEE SHEET C-1 FOR CONSTRUCTION NOTES



DEMOLITION PLAN

CHRIST CENTRAL MINISTRIES

Freeman Design Group INC
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386) 758-4609
CERTIFICATE OF AUTHORIZATION # 00008191

DATE 9/17/08 | DRAWN BY W.H.F.
REVISIONS
SHEET C-3
OF 25
PROJECT NO. 08.0133

STORMWATER SYSTEM OPERATIONS AND MAINTENANCE

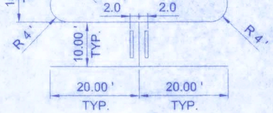
1. ON A MONTHLY BASIS OR FOLLOWING A STORM, THE RETENTION POND WILL BE INSPECTED FOR SEDIMENTATION, EROSION, DEBRIS AND THE STORMWATER PIPES WILL BE INSPECTED FOR DEBRIS OR DAMAGE. BARE SPOTS IN THE GRASS AREAS MUST BE REPAIRED AND RE SODDED.
2. THE SWALES AND POND WILL BE MOWED ON A REGULAR SCHEDULE BASED UPON THE SEASON. GRASS CLIPPING SHOULD BE COLLECTED DURING MOWING.
3. GRASS AREAS WILL BE THATCHED ON A ROUTINE BASIS.
4. THE CONTRACTOR WILL BE THE ENTITY RESPONSIBLE FOR ALL MAINTENANCE DURING CONSTRUCTION AND UNTIL FINAL ACCEPTANCE BY OWNER/ENGINEER. THE OWNER WILL BE THE ENTITY RESPONSIBLE FOR ALL MAINTENANCE POST CONSTRUCTION.

SCALE: 1" = 80'

100 0 40 80 160



DIMENSION PLAN



PARKING DETAIL

NTS

CHRIST CENTRAL MINISTRIES

William H. Freeman 1/19/09 P.E. #58001

128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386) 758-4209

Freeman Design Group inc

CERTIFICATE OF AUTHORIZATION # 00002821

DATE	DRAWN BY
9/17/08	W.H.F.

REVISIONS

SHEET C-4
OF 25

PROJECT NO.
08.C033

SCALE 1" = 100'

100 0 50 100 200

TYPE 'C' DBI

EQUILIZER PIPE
INV. EL. 75.00

TOP OF POND EL. 79.00
BOTTOM OF POND EL. 77.00

RETENTION POND AREA

MATCH EXISTING GRADE

PROPOSED BUILDING ADDITION

TYPE 'C' DBI

NOTE:
ROADWAY SWALE MAY REQUIRE REGRADING TO ENSURE OUTFALL.

TOP OF POND EL. 81.00
BOTTOM OF POND EL. 79.00

MATCH EXISTING GRADE

FF = 82.6

RETENTION POND AREA

PARCEL "B"

PARCEL "C"

PARCEL "A"

NOT A PART

TOP OF POND EL. 70.00
BOTTOM OF POND EL. 66.00

ELECTRIC TRANSFORMER BOX

INV. EL. 80.00

SEPTIC TANK

METAL BUILDING

FORM 83 BOARDS ONLY

PROPOSED BASKETBALL COURT

PROPOSED FOOTBALL FIELD

PROPOSED BALL FIELD

INV. EL. 78.00

INV. EL. 77.00

INV. EL. 76.86

INV. EL. 76.20

INV. EL. 76.00

INV. EL. 66.00

INV. EL. 75.00

INV. EL. 68.00

A-1 A-2 A-3 A-4

TYPE 'C' DBI

40 LF OF 18" HDPE DISCHARGE PIPE

TOP OF 8' BERM

ZONE "A"

24.4' x 57.2' FRAME SHED

36' x 12' METAL SHED

40.3' x 10.8' METAL SHED WITH A 20.5' x 10' OVERHANG

24' x 36' FRAME SHED

10.6' x 10.6' FRAME SHED

INV. 88.00
NEW DRIVEWAY CONNECTION TO MATCH ROADWAY ELEVATION

INV. 87.50

GRADING PLAN

℄ DRIVE

5'-0" SHLDR. | 12'-0" LANE | 12'-0" LANE | 5'-0" SHLDR.

1 ¼" TYPE S-1 ASPHALT

SEED AND MULCH

NATURAL GROUND

4:1 4:1 0.02% 0.02% 4:1 4:1

2'-0" 2'-0"

SUBGRADE COMPACTED TO 8" THICKNESS, STABILIZED TO A MINIMUM LBR 40 AND COMPACTED TO 98% STANDARD PROCTOR DENSITY.

STABILIZED SHOULDERS COMPACTED TO 4" THICKNESS AND MINIMUM LBR 40 AND COMPACTED TO 98% STANDARD PROCTOR DENSITY

ROADWAY SECTION

SCALE: 1" = 10'

CENTER OF DITCH

20'-0"

2'-0" MIN.

SEED AND MULCH

NATURAL GROUND

4:1 4:1

SOD DITCH BOTTOM

2'-0" MIN.

OUTFALL DITCH SECTION

SCALE: 1" = 10'

LINE THE BOTTOM OF DITCH WITH 6" RUBBLE RIPRAP ON FILTER FABRIC 10 FEET IN EITHER DIRECTION FROM CHANGE IN DIRECTION

BEVELED OR ROUND CORNERS

CONSRUCTION JOINT PERMITTED

SOD

CONCRETE SLAB, 3" THICK, RIENFORCED WITH WWF 6x6 - W1.4xW1.4

2' SOD

REROLLED END REQUIRED

CONSTRUCTION JOINT PERMITTED

HELICAL CORRUGATE METAL PIPE

DITCH GRADE

SOD

MITERED END SECTION DETAIL

24.00'

EDGE OF PAVEMENT

STOP

R1-1 30"

R 20'

5.0' SHLDR.

18" CMP

SOD

CONC. PAD

9.00' 5.00' 12.00' 12.00' 5.00' 9.00'

SHLDR. DRIVEWAY SHLDR.

52.00'

DRIVEWAY APRON DETAIL

SCALE: 1" = 10'-0"

CHRIST CENTRAL MINISTRIES

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CERTIFICATE OF AUTHORIZATION # 00008791

P.E. #59001

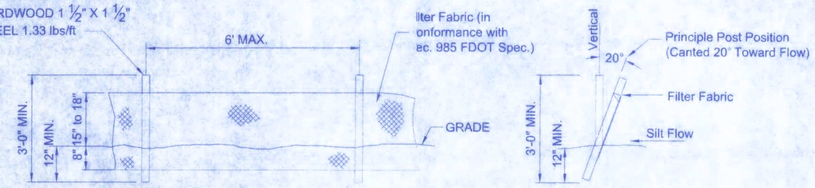
DATE 9/17/08 | DRAWN BY W.H.F.

REVISIONS

SHEET C-5
OF 25

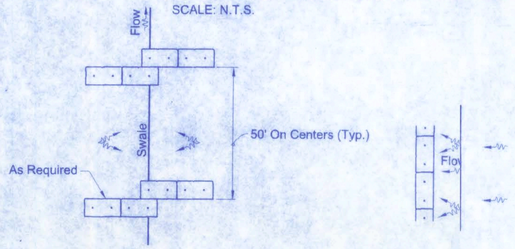
PROJECT NO.
08033

POST OPTIONS:
SOFTWOOD 2 ½" DIA.
SOFTWOOD 2" x 4"
HARDWOOD 1 ½" X 1 ½"
STEEL 1.33 lbs/ft



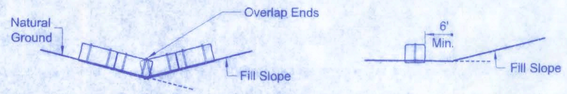
TEMPORARY SILT FENCE DETAIL

SCALE: N.T.S.



PLAN

PLAN



ELEVATION

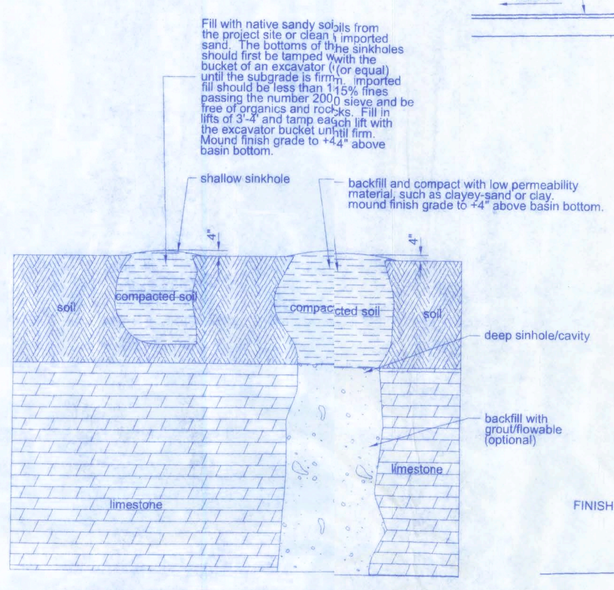
TO BE USED WHERE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

ELEVATION

TO BE USED WHER THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

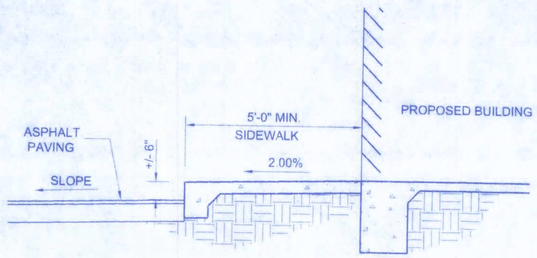
NOTES FOR BALED HAY OR STRAWBARRIERS:

1. HAY BALES SHALL BE TRENCHED 3" TO 4" AND ANCHORED WITH 2 - 1x 2" (OR 1" DIA.) x 4' WOOD STAKES.
2. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER. UNAVOIDALE GAPS SHALL BE PLUGGED WITH HAY OR STRAW TO PREVENT SILT FORM PASSING.
3. WHERE USED IN CONJUNCTION WITH SILT FENCE, HAY BALES SHALLBE PLACED ON THE UPSTREAM SIDE OF THE FENCE.



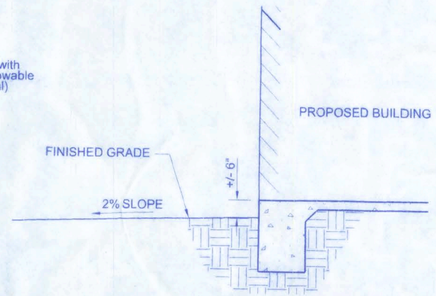
SHALLOW SINKHOLE AND DEEP SINKHOLE CAVITY MAINTENANCE REPAIR DETAIL

NTS



SECTION

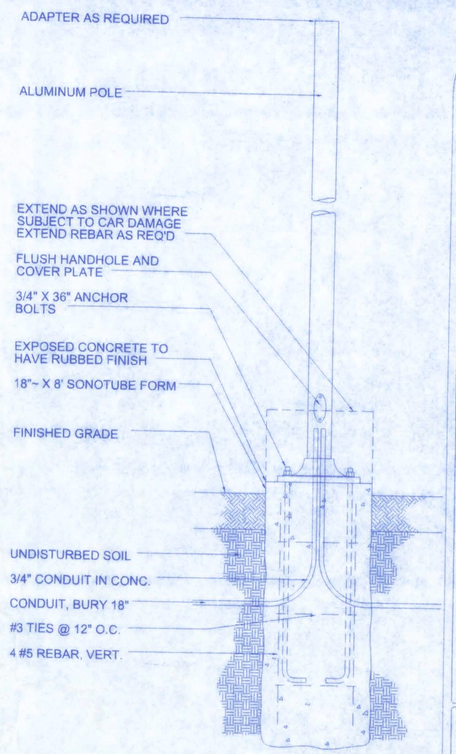
NTS



SECTION

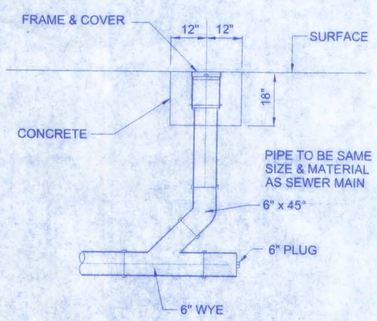
NTS

NOTE!
LIGHT FIXTURE AS SELECTED BY OWNER - SUGGESTED STYLE: RECTANGULAR 90W LPS OR 175W HPS - VERIFY W/ OWNER

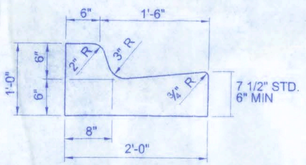


Pole & Base DET.

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

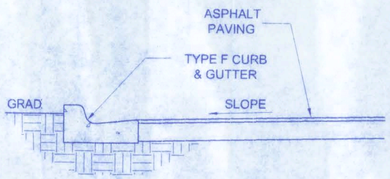


CLEANOUT STRUCTURE



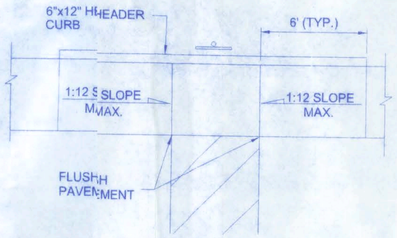
TYPE F CURB & GUTTER

SCALE: N.T.S.

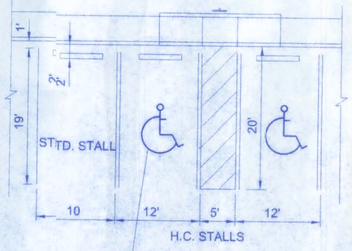


CURB SECTION

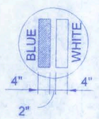
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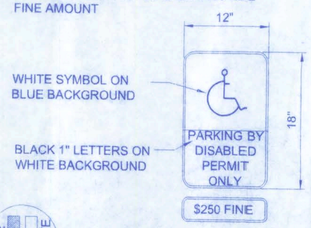


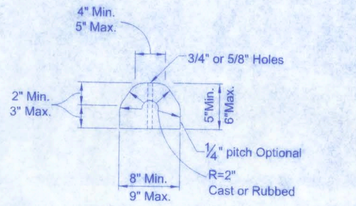


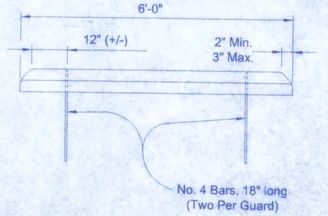
HANDICAP SYMBOL, PAINTED WITH 2" STROKE BRIGHT BLUE TRAFFIC PAINT.



SIGN SHALL BE PLACED IN FRONT OF EACH ACCESSIBLE PARKING STALL 84" MIN. TO BOTTOM OF SIGN. PROVIDE FINE AMOUNT







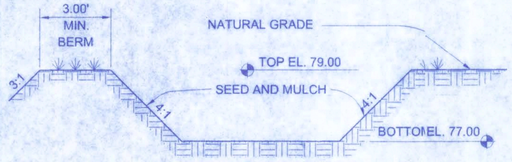
CONCRETE WHEEL STOP

NTS

CHRIST CENTRAL MINISTRIES

Freeman Design Group inc
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CERTIFICATE OF AUTHORIZATION # 00008701

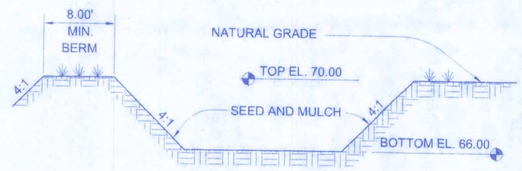
DATE 9/17/08 | DRAWN BY W.H.F.
REVISIONS
SHEET C-6
OF 25
PROJECT NO. 08.C031



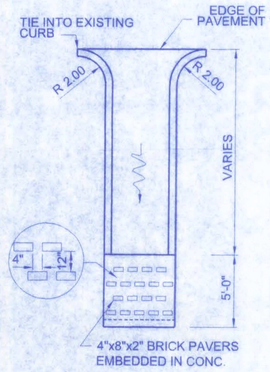
CATCH BASIN (A)
N.T.S.



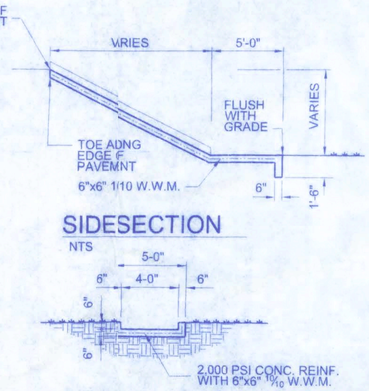
CATCH BASIN (B)
N.T.S.



CATCH BASIN (C)
N.T.S.



PLAN
NTS



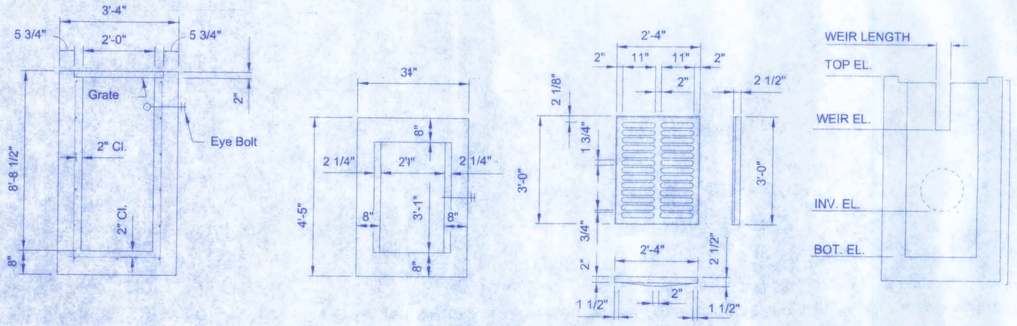
SIDESECTION
NTS

CROSS SECTION
NTS

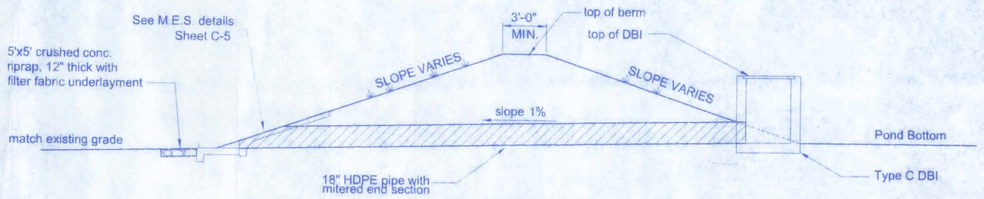


RUBBLE PAD DETAIL
NTS

LOCATION	TOP ELEVATION	WEIR ELEVATION	LENGTH OF WEIR	INVERT ELEVATION	BOTTOM ELEVATION
BASIN A	78.50 FT	77.60 FT	0.50 FT	77.00 FT	76.50 FT
BASIN B	80.50 FT	79.80 FT	1.50 FT	79.00 FT	78.50 FT
BASIN C	69.50 FT	67.50 FT	1.50 FT	66.00 FT	65.50 FT



A MODIFIED TYPE "C" DBI
NTS



SECTION THRU BERM
NTS

CHRIST CENTRAL MINISTRIES

William H. Freeman 9/17/08 P.E. #56001

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(386) 758-4209
Freeman Design Group inc
CERTIFICATE OF AUTHORIZATION # 00008701

DATE	DRAWN BY
9/17/08	WH.F.

REVISIONS

SHEET C-7
OF 25

PROJECT NO
08-C033

GENERAL STRUCTURAL NOTES

GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMAC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMETS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTEDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERNT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALLHE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMESIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE LANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES O ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING ORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIRWORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FORLL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WOR

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY TH ENGINEER IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF TH CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHLL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OSSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICA, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TILOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENING, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEERIN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITHHE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER'S REVW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVASTAMP. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUATITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN TOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ENGINEEI OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON TE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDIG ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. A/E WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AN SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER,INLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LODING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE A/E ONLY ONE SET OF SEPIAND TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR A/ REVIEW, BEFORE STARTING FABRICATION. THE A/E WILL RETURN THE MARKEUP AND STAMPED SEPIA TO THE CONTRACTOR. THESE SEPIA COPIES SHALL E USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION.ETS OF BLUE PRINTS (WITHOUT SEPIA) WILL NOT BE ACCEPTED.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATEAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE TE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING ND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE STANDARD BUILDING CODE AND APPCABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FO SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION C THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AD ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTIN SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PRORTY OR PUBLIC UTILITIES.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE - WITH ALL UPDATES AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA:

BASED ON ANSI/ASCE 7-05. BASIC WIND VELOCITY 110 MPH.

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . . 20 PSF

4. FLOOR DESIGN LOADS.
SUPERIMPOSED DEAD LOADS: . . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
ASSEMBLY . . . . . 100 PSF
STAIRS AND CORRIDORS . . . . . 100 PSF
STAGE: . . . . . 120 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 2,500 PSF MINIMUM. A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. TOP OF ALL FOOTINGS TO BE A MINIMUM 1'-4" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-4" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 36 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BEND.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT COLUMN CENTER-LINES DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION), PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS: (BOTTOM) . . . . . 3"
(TOP & SIDES) . . . . . 2"

SLABS ON GRADE: CENTERED W/SLAB

COLUMNS AND BEAMS: (TO THE TIES) . . . . . 1-1/2"

6. COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICAL REBARS ABOVE. LAP 36 BAR DIAMETER OR MINIMUM OF 18 INCHES, U.O.N. PROVIDE RIGID TEMPLATES FOR DOWEL LOCATION. PROVIDE STANDARD HOOKS AT TOP OF ALL VERTICAL REINFORCEMENT AT NONCONTINUOUS COLUMNS (U.O.N.).

7. ALL DOWELS FOR COLUMNS SHALL BE SECURED IN POSITION PRIOR TO CONCRETING. PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.

8. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

9. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

10. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF f'm=2,000 (PSI). CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS.

2. SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.

3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S".

4. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.

5. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.

6. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.

7. VERTICAL REINFORCING:

(A) ASTM A-615 PER REINFORCING SECTION.

(B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

(C) VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR-DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.

(D) VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.

(E) ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.

(F) PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.

8. HORIZONTAL REINFORCING:

PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY) LAPPED 7-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTION. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF POUR.

9. PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.

10. CELL FILLING CONCRETE SHALL BE "PEA DOCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH f'c=3,500 PSI MIN. AT 28 DAYS.

11. LINTELS:

A. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENING ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.

B. LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR TIE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAM'S TYPICAL BOTTOM REBARS THROUGH AND ADD 2-#5 BOTTOM TRUSS BARS AT DROPS AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END AT DROP.

C. MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.

D. LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2-#4 TOP AND BOTTOM FOR CLEAR SPANS LESS THAN 6 FEET, 12 INCHES DEEP WITH 2-#5 TOP AND BOTTOM AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END, FOR SPANS GREATER THAN 6 FEET (UP TO 8 FEET). CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

STRUCTURAL STEEL: (SHOP DRAWINGS REQUIRED)

1. ALL STRUCTURAL STEEL TO BE DOMESTIC A.S.T.M. A-36 (Fy=36 K.S.I.) AND DESIGNED IN ACCORDANCE WITH THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE A.I.S.C. CODE OF STANDARD PRACTICE.

2. STEEL TUBES TO BE DOMESTIC STEEL CONFORMING TO A.S.T.M. A-500 GRADE B (Fy=46 K.S.I.).

TUBE AND PIPE COLUMNS TO BE CONCRETE FILLED WITH VENT HOLES TOP, MIDDLE AND BOTTOM.

3. ALL COLUMN BASE AND CAP PLATES SHALL BE 3/4" THICK (UNLESS OTHERWISE NOTED). WIDTH AND LENGTH AS REQUIRED FOR PROPER BOLTING AND AS INDICATED ON THE PLANS AND DETAILS.

4. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

STRUCTURAL WOOD:

1. TO CONFORM TO RULES OF THE MANUFACTURER'S ASSOCIATION UNDER WHOSE RULES THE LUMBER IS PRODUCED. (SEE SUPPLIER'S SPECIFICATIONS).

2. TO BE AIR DRIED, WELL SEASONED AND GRADE MARKED AT MILL.

3. TO BE NO. 2 SOUTHERN PINE, UTILITY GRADE DOUGLAS FIR OR WEST COAST HEMLOCK.

4. ALL STRUCTURAL WOOD TO BE SURFACED FOUR (4) SIDES (S-4-S) WITH A MINIMUM FIBER STRESS IN BENDING OF 1,200 P.S.I. AND A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.

5. ALL LUMBER AND PLYWOOD IN CONTACT WITH CONCRETE, STUCCO, MASONRY OR OTHER CEMENTITIOUS MATERIALS SHALL BE TREATED TO COMPLY WITH AWPA STANDARD LP-2.

6. STORE ALL LUMBER ABOVE GRADE OR FLOOR. STACK TO ALLOW PROPER AIR CIRCULATION AND PROTECT FROM WETTING WITH SUITABLE COVER.

COLD FORMED METAL FRAMING: (SHOP DRAWINGS REQUIRED)

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFACATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.

2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.

ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.

3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE - STEEL" CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINK RICH RUSTPROOFING PAINT.

4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ .177"~ X 1\" PAF, SHOT THROUGH A 1"~ X 16 GA HOLELESS WASHER.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO FULLY DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6

2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4

3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4

4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6

5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1

6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2

7. 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. FBC 1816.1.3

8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RET-ARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4

9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5

10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6

11. 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. FBC 1816.1.6

12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT. FBC 1816.1.7

13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPART-MENT 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 SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONS-UMER SERVICES". FBC 1816.1.7

14. 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. FBC 2303.1.3

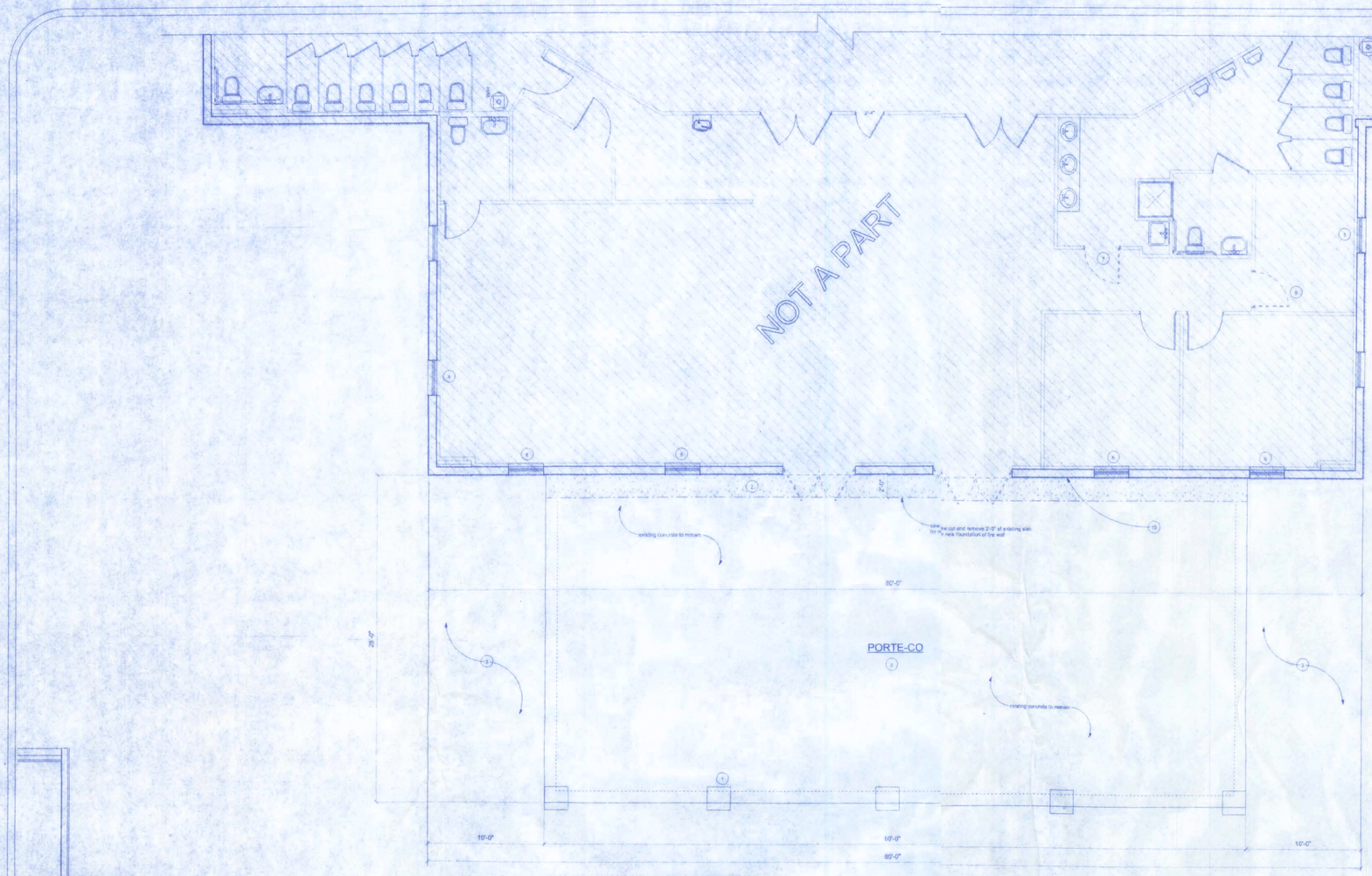
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

William H. Freeman 1/28/09 P.E. # 59001

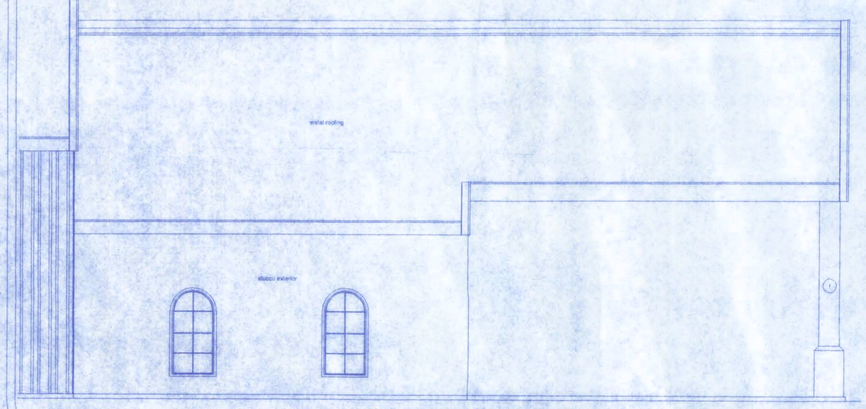
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

Freeman Design Group
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

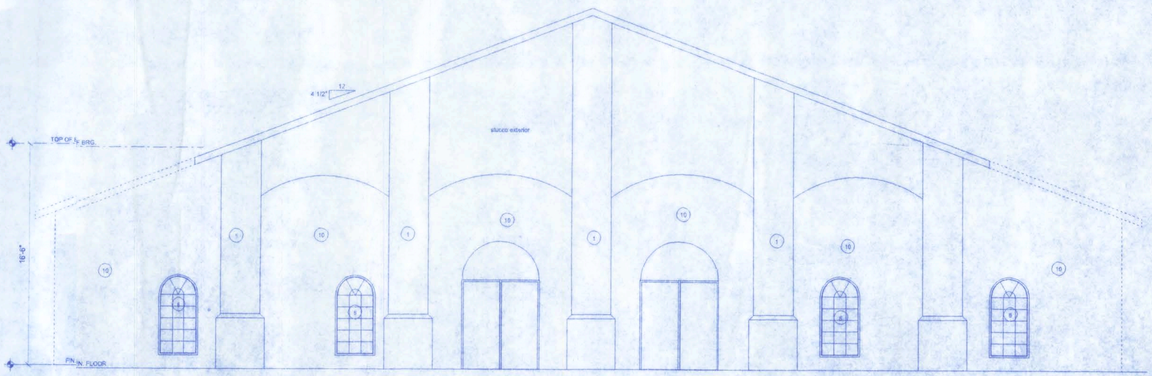
DATE 12/8/08	DRAWN BY J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET	G-1
OF	25
PROJEC NO.	09.C001



EXISTING FLOOR LAYOUT
SCALE: 3/16" = 1'-0"



EXISTING CARPORT SIDE
SCALE: 3/16" = 1'-0"



EXISTING CARPORT FRONT
SCALE: 3/16" = 1'-0"

GENERAL DEMOLITION NOTES:

1. Demolition notes are general in nature only and identify the basic scope and intent of the work.
2. Contractor shall field verify all conditions and dimensions prior to performing demolition - Contractor is required to do all demolition of all items required to accomplish the new construction in this project, whether or not shown or noted.
3. The contractor shall be responsible for the removal and proper disposal of all materials as called for in the contract documents. The placement and access to waste receptacles for demolition/construction debris shall be coordinated with the owner. Contractor to coordinate the demolition of all utilities with owner prior to commencing demolition.
4. The owner has first right of refusal on all salvaged equipment.
5. Existing abandoned waste line vents are to be secured to the underside of the existing roof deck, cast exterior with 3 pound lead cap with crocodile hood.
6. The contractor shall notify and await approval from the owner before interruption of utilities.
7. See mechanical, electrical and plumbing drawings for additional information.
8. Facilities or portions of facilities shall not be occupied during construction, unless exits, fire detection and early warning systems, fire protection, and any safety barriers are continuously maintained and closely inspected at all times.
9. Prior to the issuance of the notice to proceed, a safety plan shall be provided by the contractor which clearly delineates areas for construction, safety barriers, construction traffic during all phases and conditions of construction.

PHASE 3 DEMOLITION NOTES:

1. Carefully remove column finish and substrate down to the bare structural shell.
2. Saw cut and carefully remove existing concrete along western foyer wall and prepare new foundation for fire wall.
3. Saw cut and remove existing asphalt in the area of the new sidewalk extensions on the north and south sides.
4. Existing window to be removed and replaced with new 2670 egress door.
5. Existing window to be removed and the opening increased in size to accommodate a new 6070 egress door.
6. Remove windows and frame in opening with 1 1/4" x 1 1/4" 20 gage steel studs @ 16" o.c. with 1/2" drywall on both sides, finished to match existing wall finish.
7. Remove existing outswing door and replace with inswing door of the same size and type.
8. Remove all existing soffit in the porte-co ceiling.
9. Remove existing door and wall to create new corridor.
10. Remove existing finish to substrate.

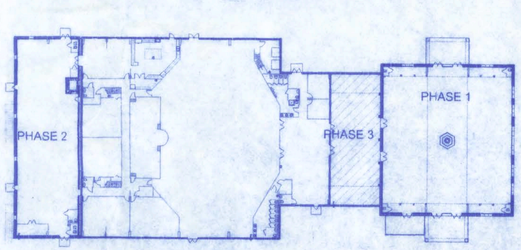
WALL AND DOOR LEGEND

existing wall to remain

existing wall to be removed

existing door to be removed

existing door to remain



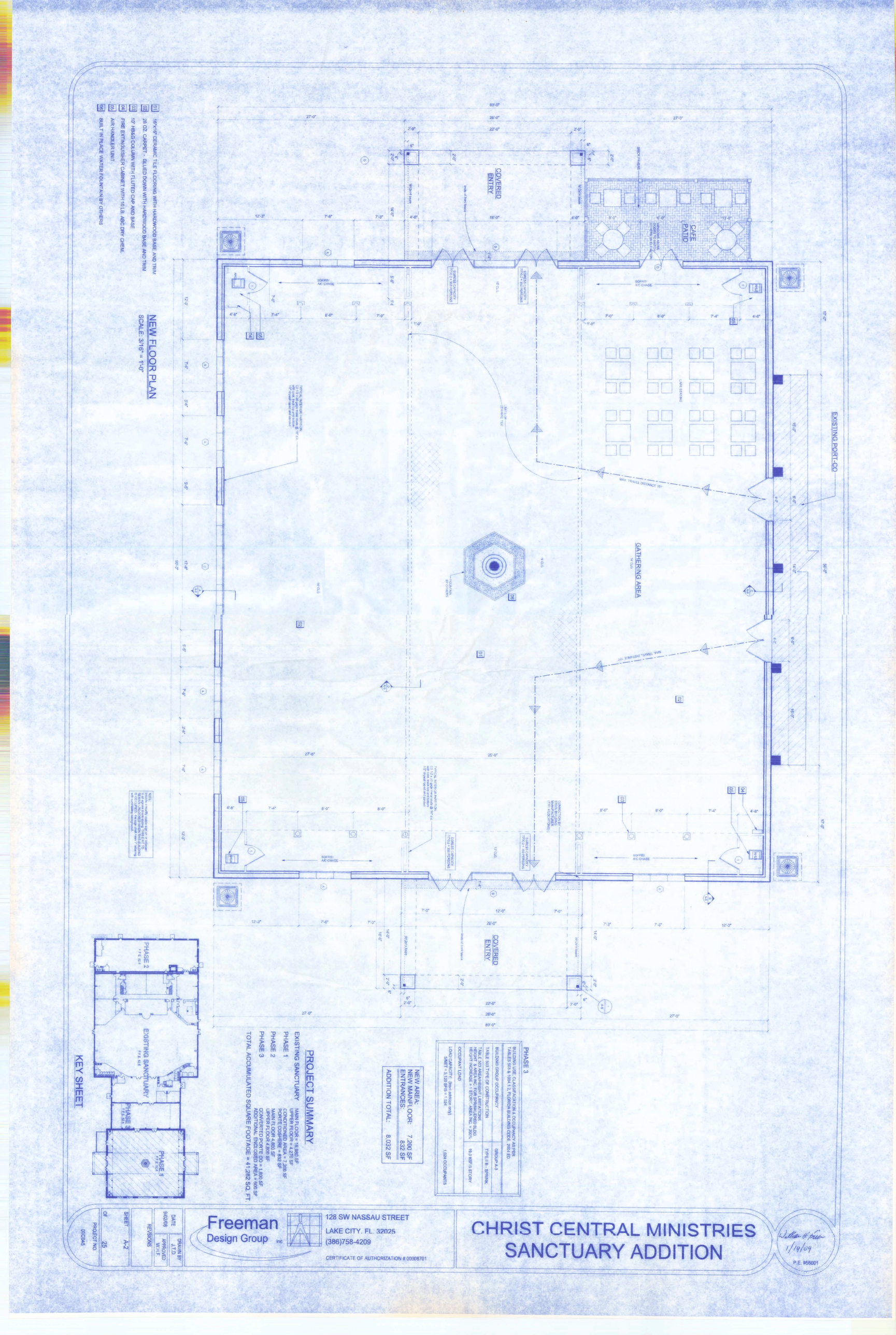
KEY SHEET

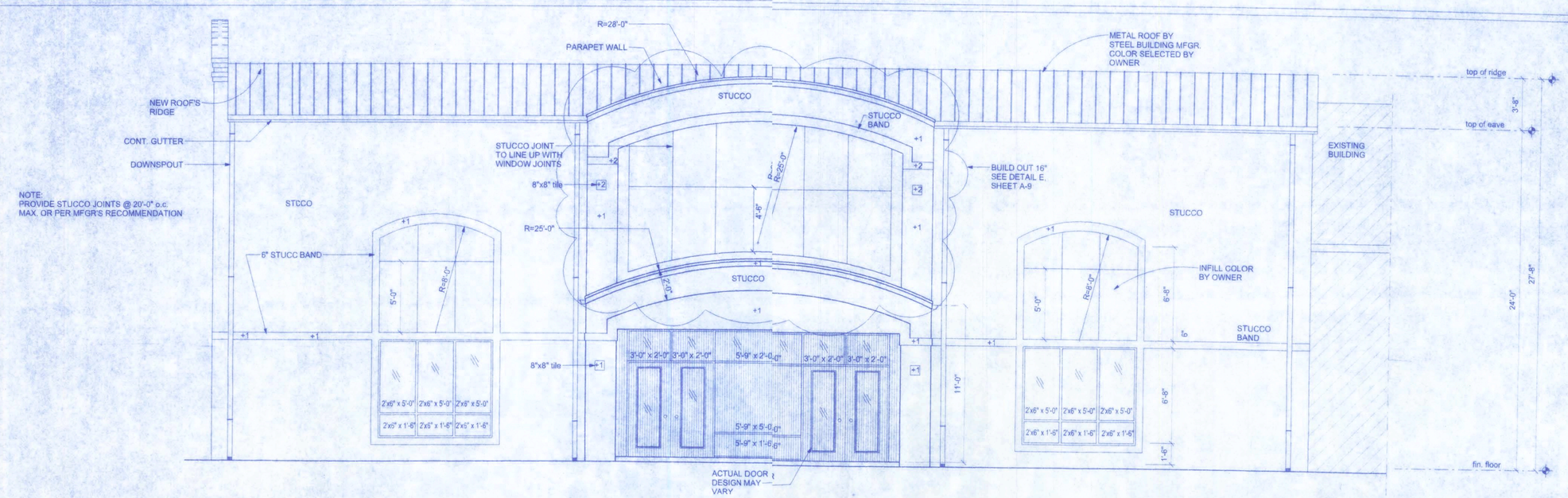
William M. Freeman 11/19/09 P.E. #49001

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

Freeman Design Group Inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00006701

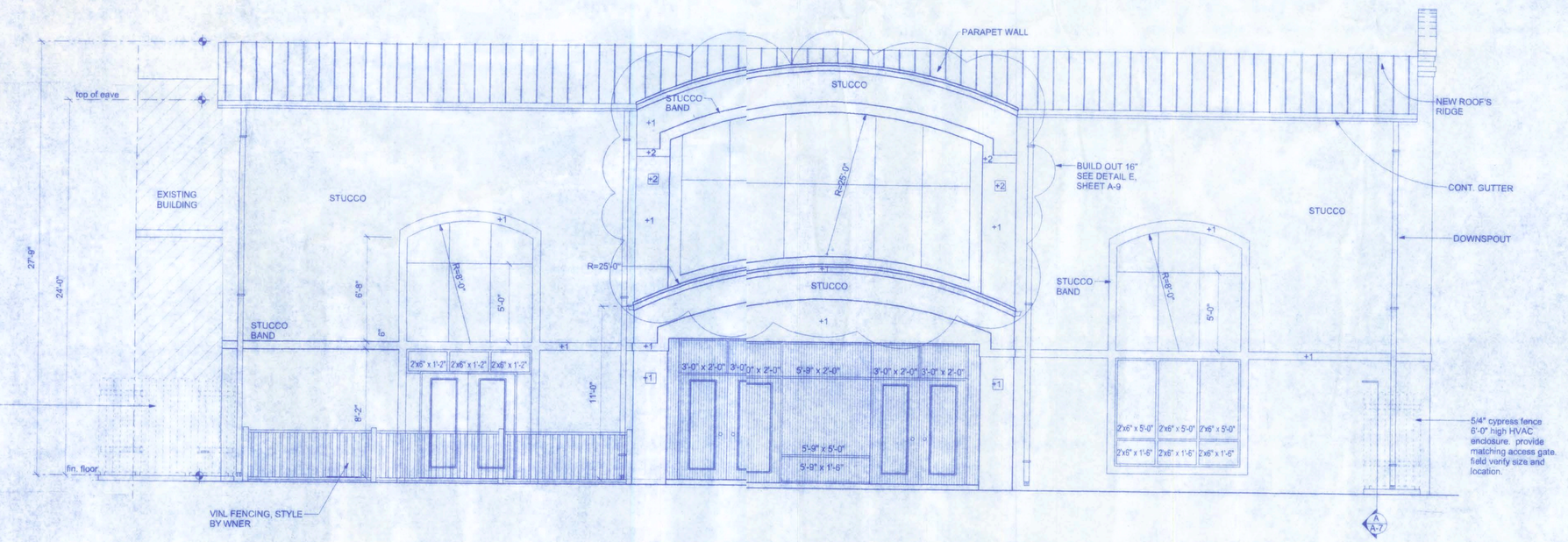
DATE 12/8/08	DRAWN BY J.T.D.
REVISIONS	APPROVED W.H.F.
SHEET A-1	
OF 25	
PROJECT NO. 09-001	


01 16"x16" CERAMIC TILE FLOORING WITH HARDWOOD BASE AND TRIM
02 28 OZ. CARPET - GLUED DOWN WITH HARDWOOD BASE AND TRIM
03 10" HSAG COLUMN WITH FLUTED CAP AND BASE
04 FIRE EXTINGUISHER CABINET WITH 10 LB. ABC DRY CHEM.
05 AIR HANDLER UNIT
06 BUILT IN PLACE WATER FOUNTAIN BY OTHERS
NEW FLOOR PLAN
SCALE: 3/16" = 1'-0"
COVERED ENTRY
CAFE PATIO
GATHERING AREA
EXISTING PORT-CO
COVERED ENTRY
KEY SHEET
PHASE 2
EXISTING SANCTUARY
PHASE 1
PHASE 3
PROJECT SUMMARY
EXISTING SANCTUARY MAIN FLOOR = 16,966 SF
UPPER FLOOR = 4,270 SF
PHASE 1 CONDITIONED AREA = 7,200 SF
PORTE COSPHERE = 832 SF
PHASE 2 MAIN FLOOR = 4,800 SF
UPPER FLOOR 4,800 SF
CONVERTED PORTE CO = 1,800 SF
PHASE 3 ADDITION, ENCLOSED AREA = 600 SF
TOTAL ACCUMULATED SQUARE FOOTAGE = 41,282 SQ. FT.
NEW AREA:
NEW MAIN FLOOR: 7,200 SF
ENTRANCES: 832 SF
ADDITION TOTAL: 8,032 SF
PHASE 3
BUILDING USE, CLASSIFICATION & OCCUPANCY AS PER TABLES 503 & 1004.1.2, FLORIDA BUILDING CODE, 2004 ED.
BUILDING GROUP OCCUPANCY: GROUP A-3
TABLE 503 TYPE OF CONSTRUCTION: TYPE II B - SPRINK.
HEIGHT & AREA LIMITATIONS PER SPRINKLERED BLDG.
HEIGHT INCREASE = 1 STORY, AREA INC. > 200%: 19.0 KEF/3 STORY
OCCUPANT LOAD
LOAD CAPACITY - 20psf (w/o admission req'd)
SWEET = 5,120 SF/5 = 1,024: 1,024 OCCUPANTS
Freeman Design Group Inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION #.00008701
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION
William H. Freeman 11/19/09
P.E. 958001
PROJECT NO. 070345
SHEET A-2
OF 25
DATE 8/02/08
DRAWN BY J.T.D.
APPROVED W.H.F.
REVISIONS



SOUTH ELEVATION

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



NORTH ELEVATION

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

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

Freeman Design Group INC
128 S/W NASSAU STREET
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DATE 9/02/08	DRAWN BY J.T.D.
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REVISIONS	
SHEET	A-3
OF	25
PROJECT NO.	07D045

WEST ELEVATION

SCALE: 3/16" = 1'-0"

EAST ELEVATION

SCALE: 3/16" = 1'-0"

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

11/2009
P.E. #58001

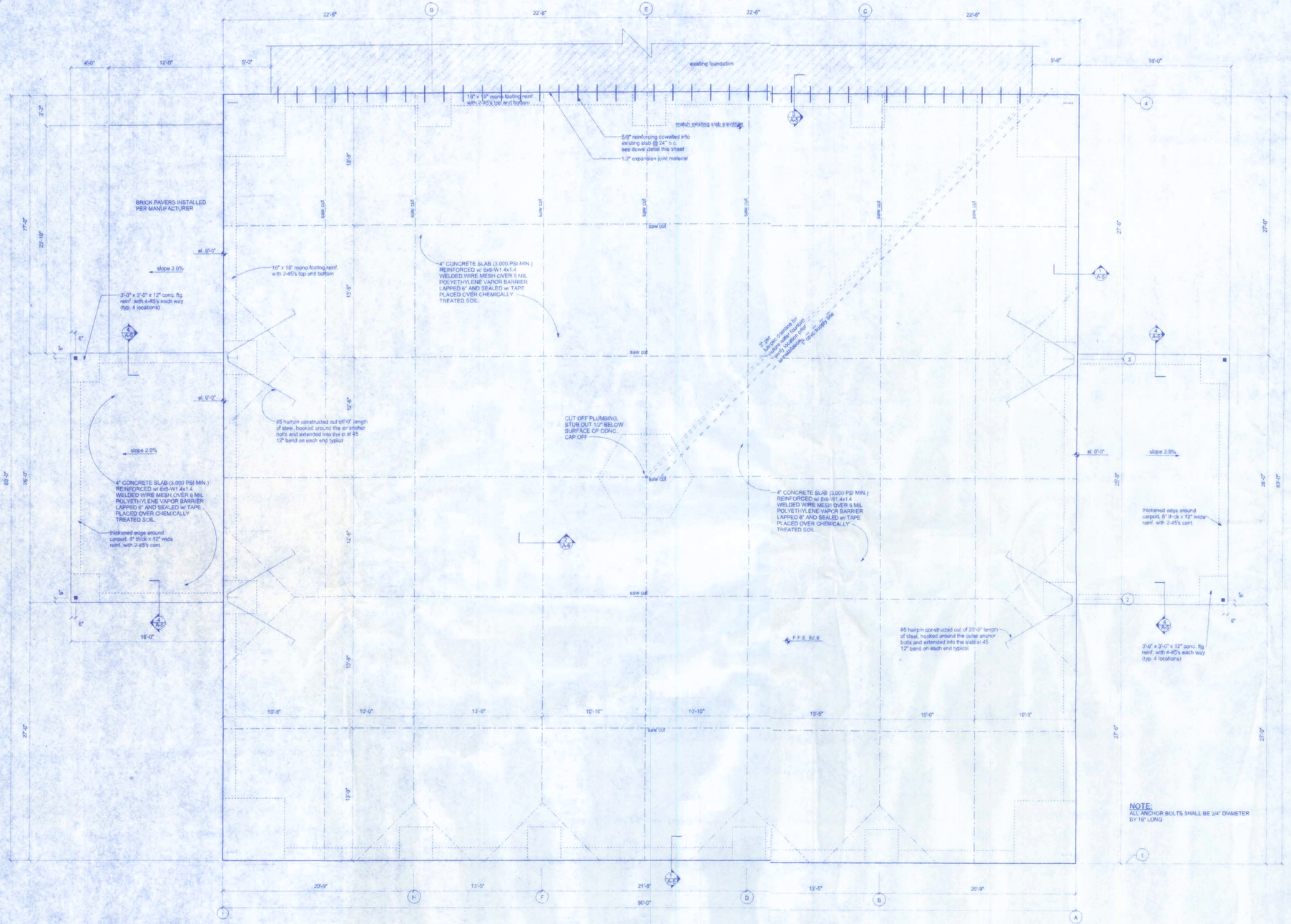
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701
Freeman Design Group Inc

DATE	DRAWN BY
9/02/08	J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET A-4
OF 25

PROJECT NO
07.C045



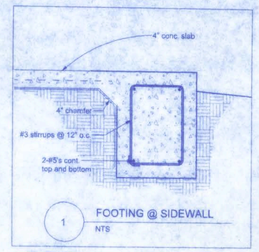
FOOTING REINFORCING TABLE

FRAME LINE	COLUMN LINE	FOOTING SIZE	REINFORCING
1 & 4	A & I	6'-6" x 6'-6" x 4'-3"	7-#5's EACH WAY TOP & BOTTOM
2 & 3	A & I	3'-6"x 3'-6" x 3'-0"	4-#5's EACH WAY TOP & BOTTOM
1	B & H	3'-6"x 3'-6" x 2'-0"	4-#5's EACH WAY
1	D & F	3'-6"x 3'-6" x 2'-3"	4-#5's EACH WAY
4	C & G	3'-6"x 3'-6" x 2'-8"	4-#5's EACH WAY
4	E	3'-6"x 3'-6" x 3'-0"	4-#5's EACH WAY, TOP & BOTTOM

NOTE:
ALL ANCHOR BOLTS SHALL HAVE 18" MIN. CONCRETE EMBEDMENT

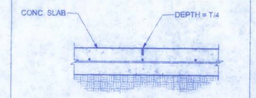
FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

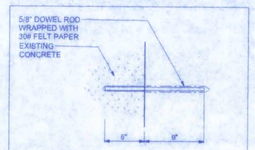


1 FOOTING @ SIDEWALL
NTS

NOTE:
SAW CUT SHALL BE MADE WITHIN 24 HOURS OF POUR

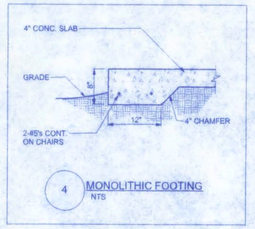


2 SAWCUT DETAIL
NTS



3 DOWEL DETAIL
NTS

NOTE:
DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER AND 1/8" DEEPER THAN EMBEDMENT LENGTH INTO EXISTING CONCRETE AND REMOVE DUST WITH OIL FREE COMPRESSED AIR. SET DOWELS WITH EPOXY INTO HOLES AND LET REMAIN UNTIL IT SETS.



4 MONOLITHIC FOOTING
NTS

FOUNDATION NOTES:

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

GALVANIZATION:
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT,
EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER

BEARING CAPACITY:
THE FOOTING IS DESIGNED FOR SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 2,000 PSF. THE FOOTINGS SHALL REST ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. AT THE OWNER'S REQUEST, COMPACTED SOILS SHALL BE TESTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR AND COMPACTED IN LIFTS NOT TO EXCEED 12 INCHES.

NOTE:
ALL ANCHOR BOLTS SHALL BE 3/4" DIAMETER BY 16" LONG

1

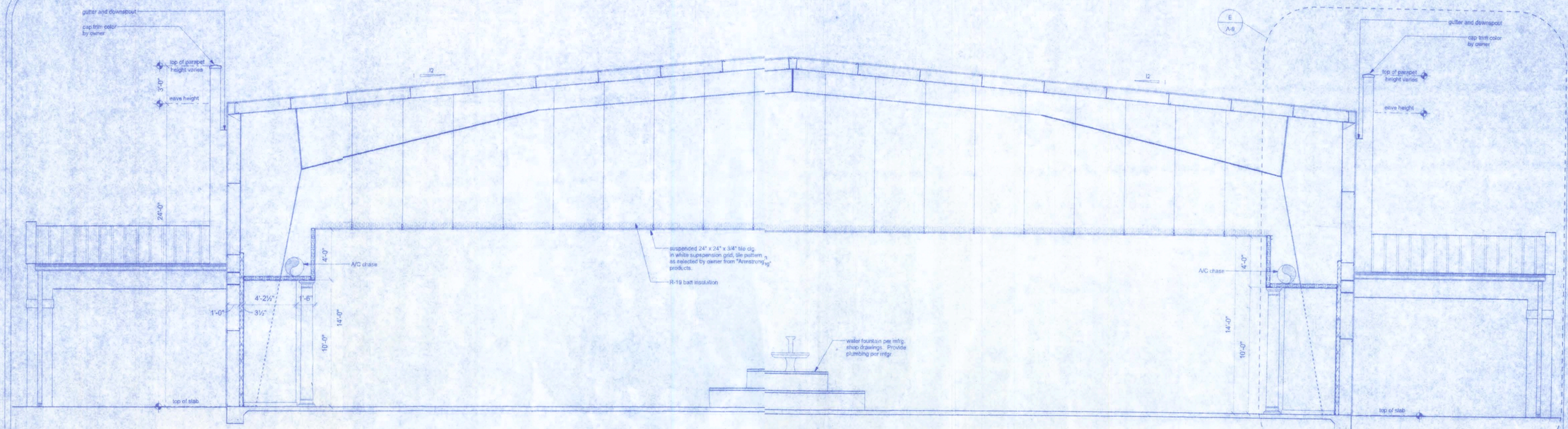
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

11/20/08
P.E. #56001

128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00006701

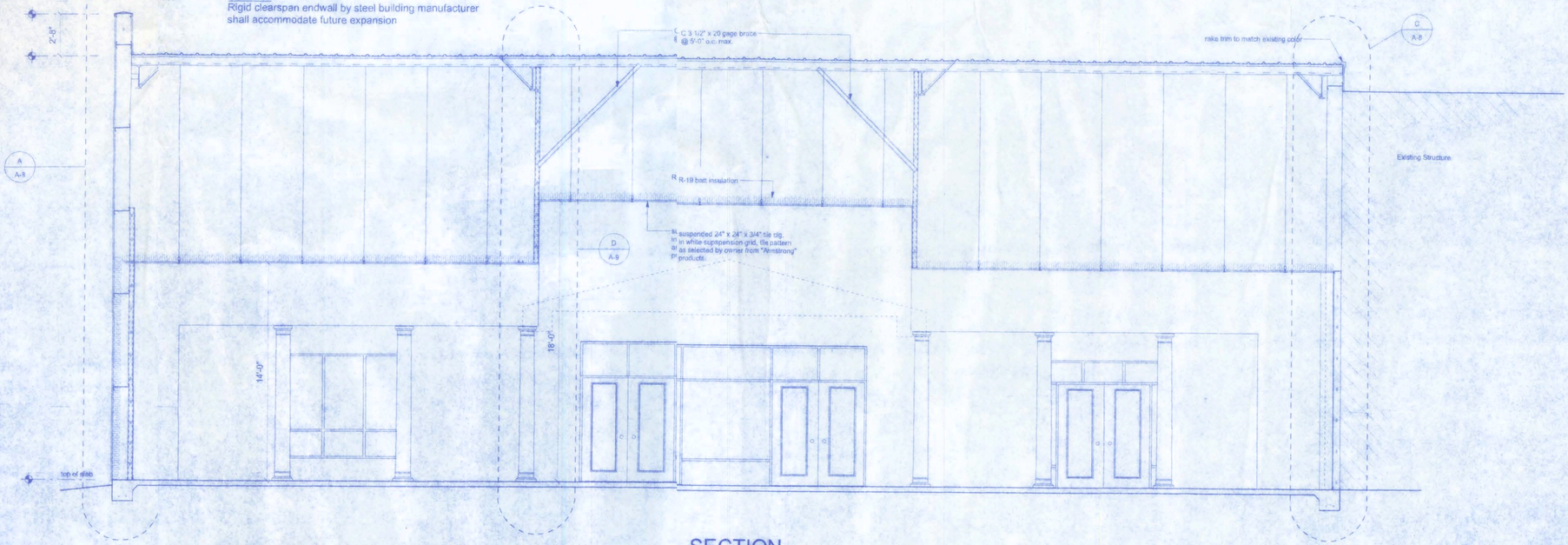
Freeman inc
Design Group

DATE 9/02/08	DRAWN BY J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET	A-1
OF	25
PROJECT NO.	07.C045



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

NOTE:
Rigid clearspan endwall by steel building manufacturer shall accommodate future expansion



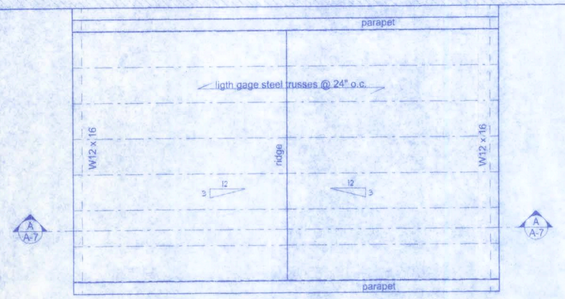
SECTION
SCALE: 1/4" = 1'-0"

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008791

Freeman Design Group inc

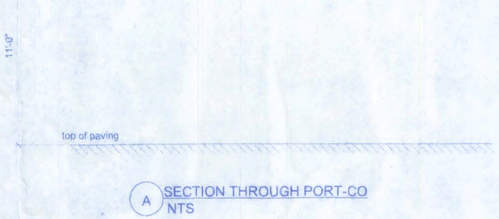
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REVISIONS	
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OF	25
PROJECT NO.	07.C95



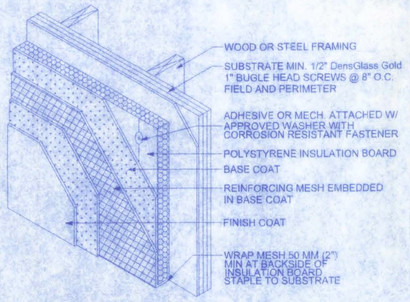
TRUSS LAYOUT

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

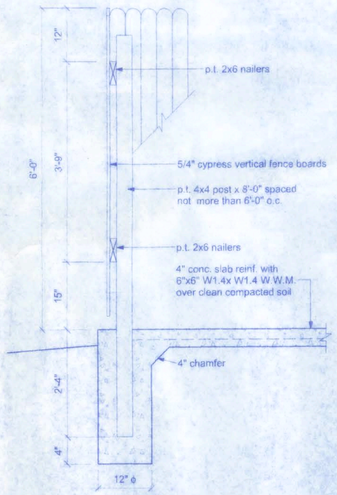




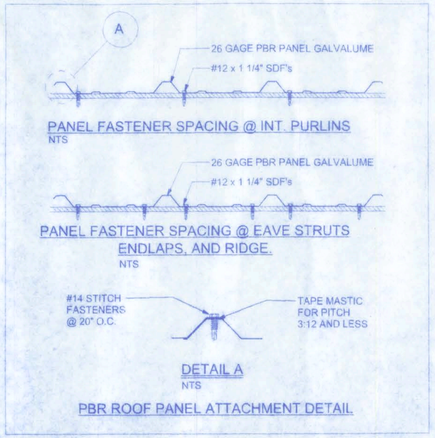
A SECTION THROUGH PORT-CO
NTS



1 EIFS STANDARD DETAIL
NTS



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

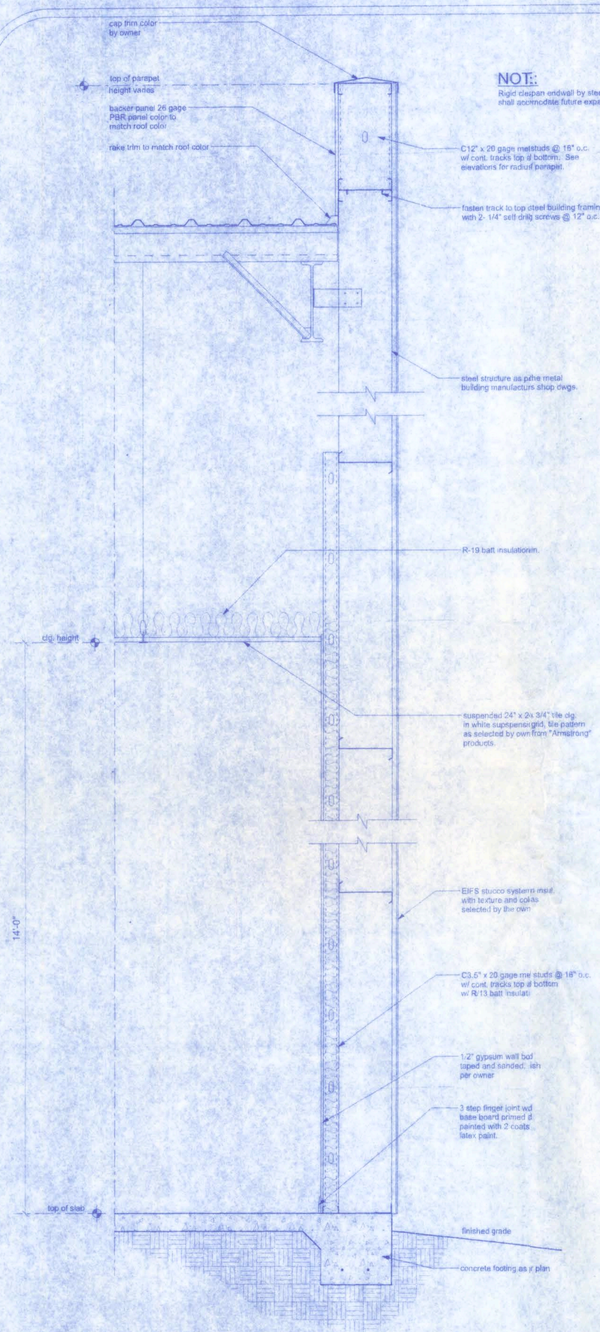


CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

William H. Freeman
1/11/09
P.E. #56801

128 SW NASSAU STREET
LAKE CITY, FL. 32025
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CERTIFICATE OF AUTHORIZATION # 00008701
Freeman Design Group Inc

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	APPROVED W.H.F.
REVISIONS	
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OF	25
PROJECT NO.	07.C045

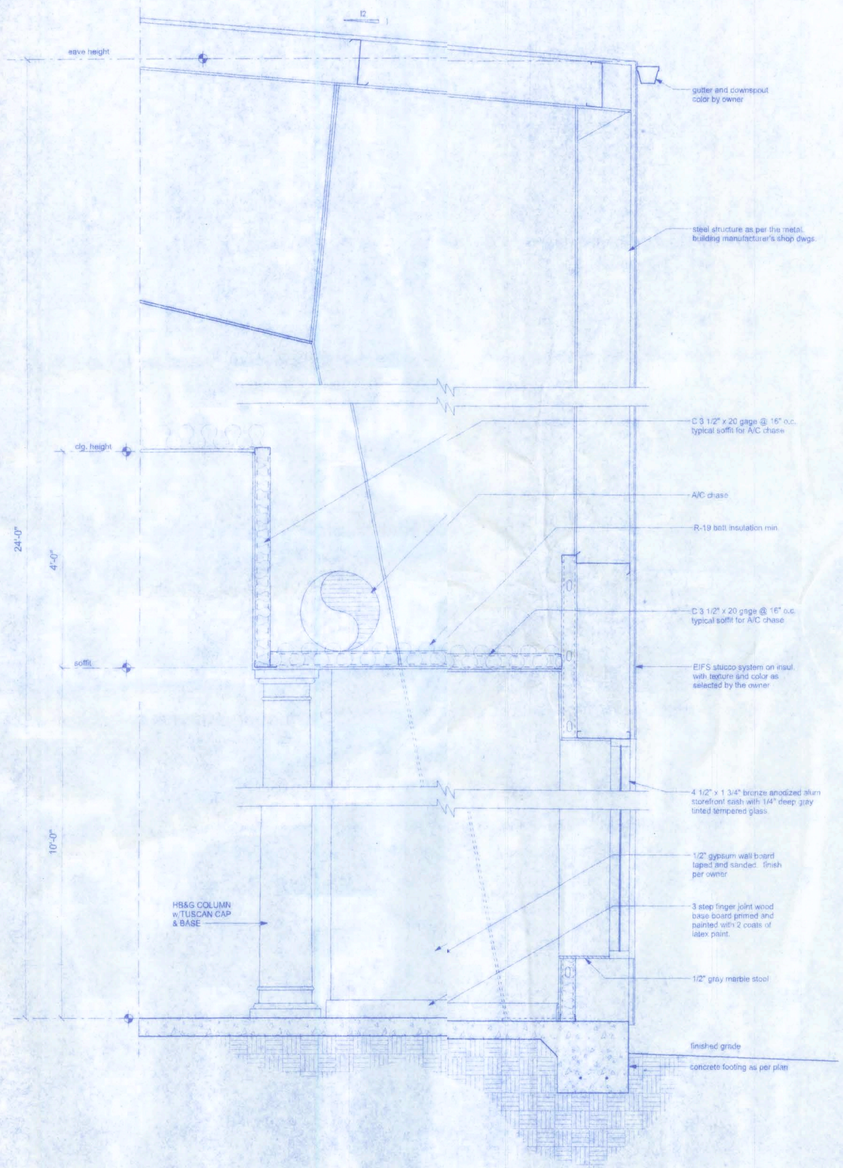


NOT:

Rigid clespan endwall by steel building manufacturer shall accomodate future expansion.

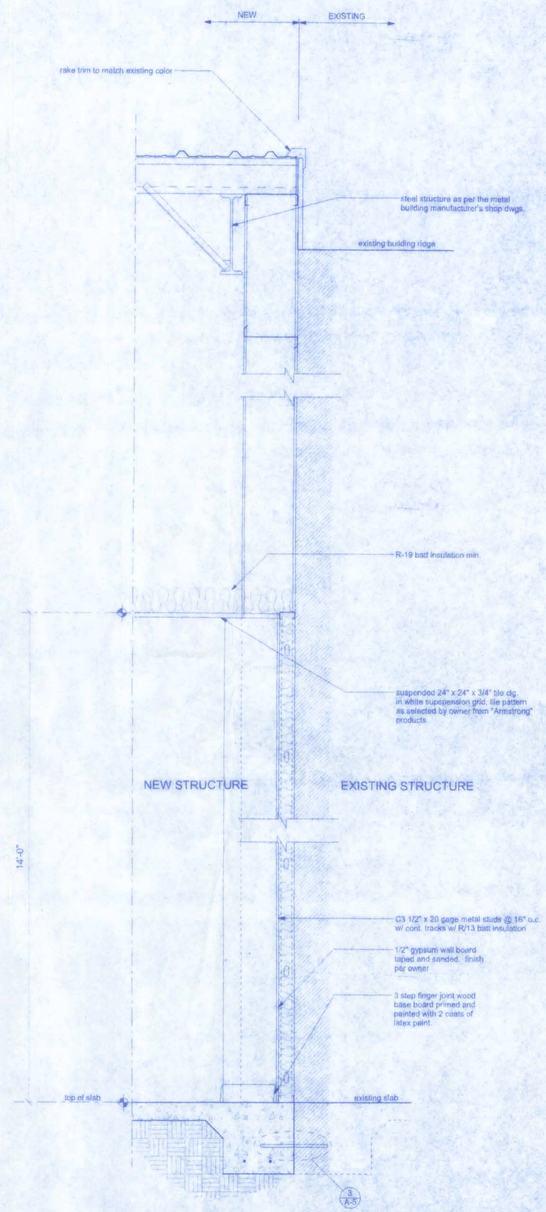
A ENDWALL SECTION

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



B TYPICAL WALL SECTION

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



C ENDWALL SECTION

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

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

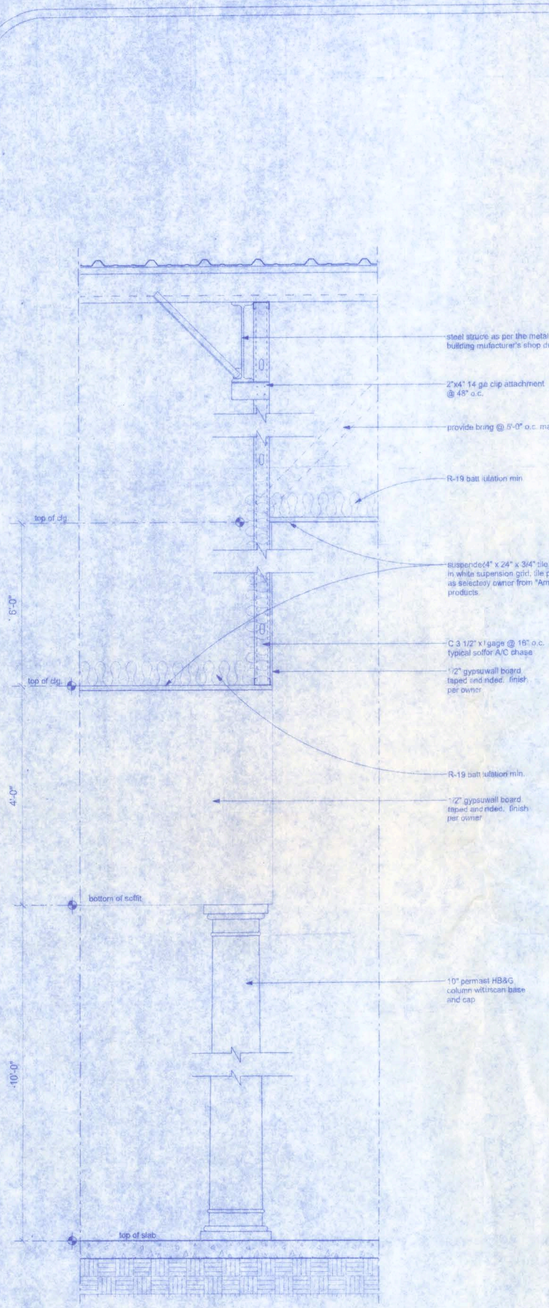
William H. Freeman 11/18/09 P.E. #50031

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CERTIFICATE OF AUTHORIZATION # 00008701
Freeman Design Group inc

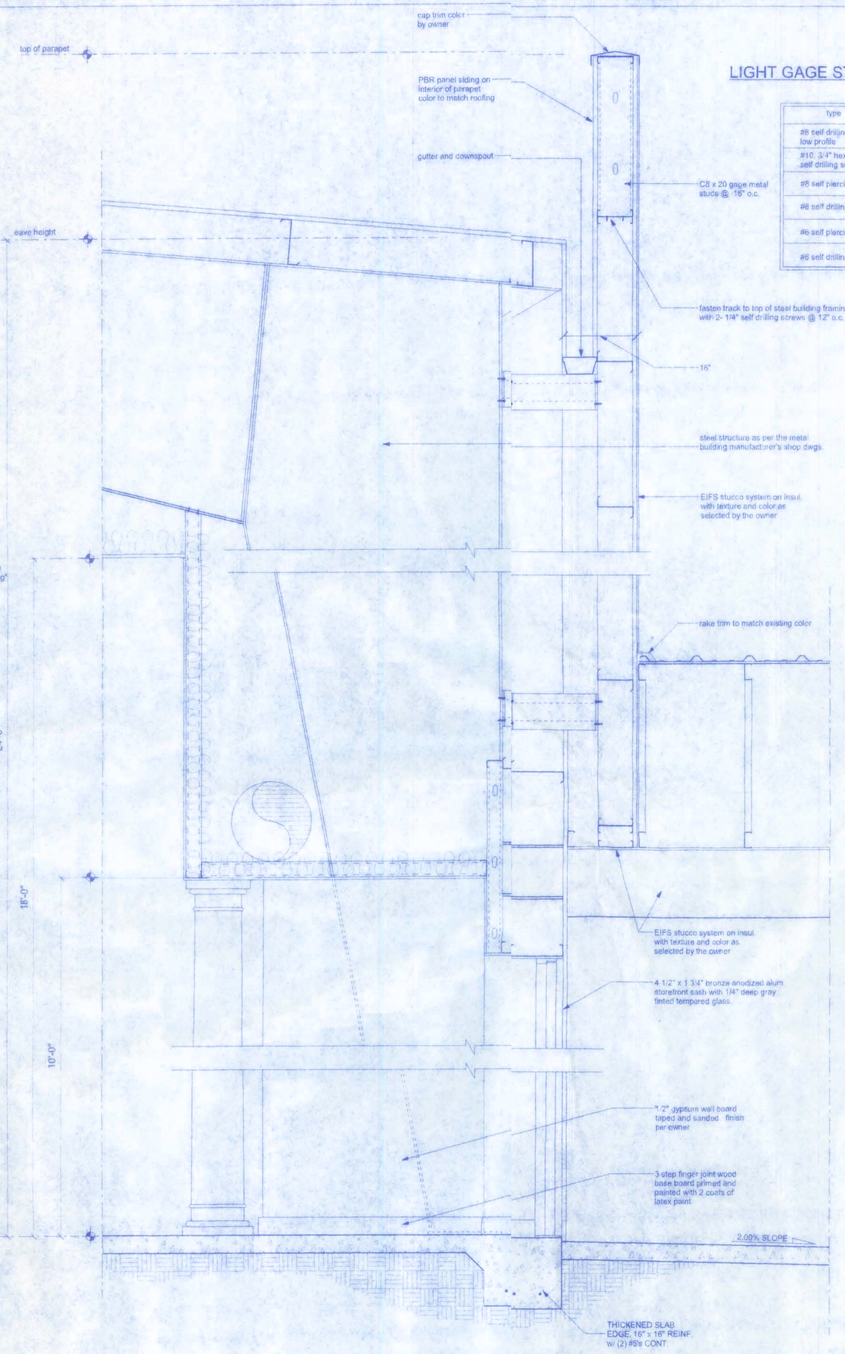
DATE 9/02/08	DRAWN BY J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET	A-8
OF	25
PROJECT NO.	07 C045

LIGHT GAGE STEEL CONNECTION NOTES:

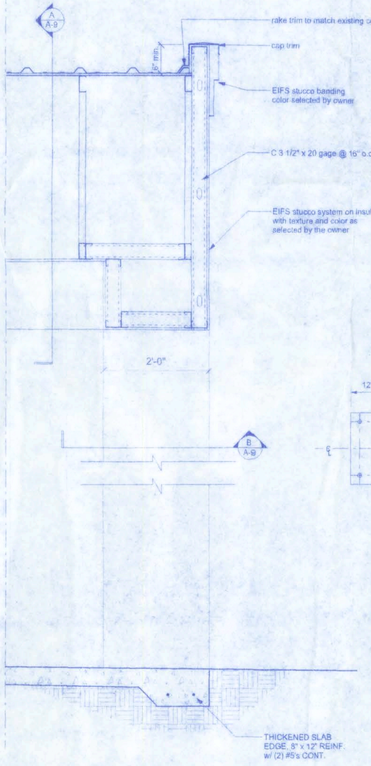
type	location
#8 self drilling x 1/2" low profile	stud to track with gypsum board and sheathing
#10, 3/4" hex-washer head self drilling screws	all other areas up to three layers of 33-mil material
#8 self piercing screws	sheathing to steel 20 gage or less
#8 self drilling screws	sheathing to steel 18 gage or more
#8 self piercing screws	gypsum board to steel 20 gage or less
#8 self drilling screws	gypsum board to steel 18 gage or more

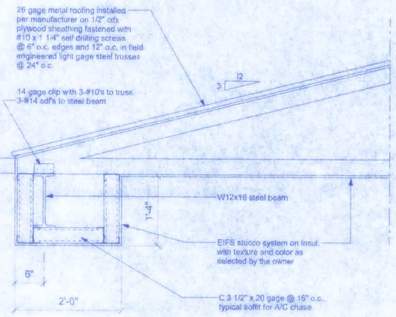


D BULKHEAD SECTION
SCALE: 3/4" = 1'-0"

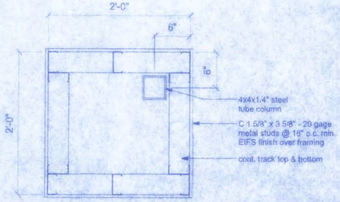


E TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"

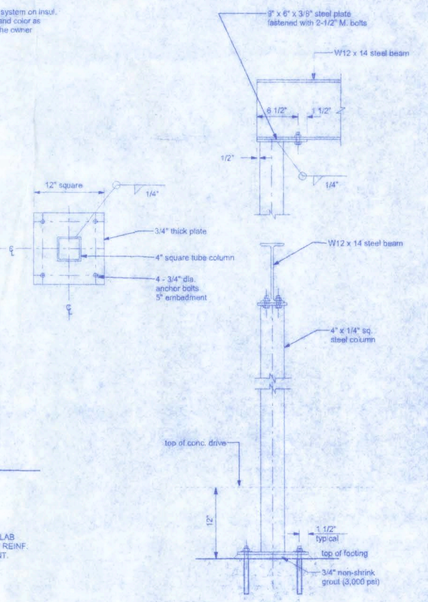




A TYPICAL ENTRANCE SECTION
SCALE: 3/4" = 1'-0"



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



1 STEEL COLUMN DETAIL
SCALE: 3/4" = 1'-0"

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

W. Wade Freeman 9/02/08 P.E. #49971

Freeman Design Group inc
128 SW NASSAU STREET
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CERTIFICATE OF AUTHORIZATION # 00004791

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	APPROVED
	W.W.F.
REVISIONS	
SHEET	A-9
OF	25
PROJECT NO	
07.C045	

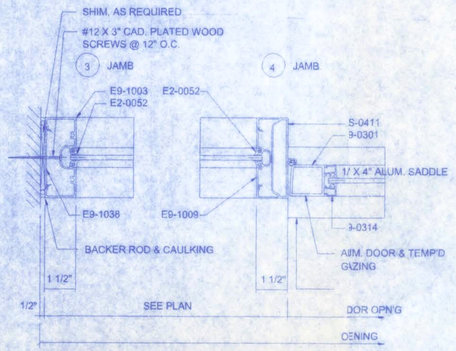
INTERIOR FINISH SCHEDULE

ROOM	FLOORING	BASE	WAINSCOT	WALLS	CEILING	CLG. HEIGHT
ENTRY	CERAMIC TILE	3 1/4" 3 stej		ORANGE PEEL	ACC. TILE	20'-0"
CAFE AREA	CARPET	3 1/4" 3 stej		ORANGE PEEL	ACC. TILE	14'-0"

NOTE:
ALL WOOD TRIM SHALL BE PAINT GRADE FINGER JOINTED.

NOTE:
ALL WALLS SHALL RECEIVE ONE PRIMER COAT AND 2 FINISH COATS OF ATEX PAINT.
COLORS BY OWNER. ALL WALLS, DOORS AND TRIM TO BE PAINTED. 2 COLORS FOR THE WALLS AND 1 COLOR FOR THE TRIM.

FLOORING NOTES:
CARPET SHALL BE CUT PILE, 100% CONTINUOUS FILAMENT ZEFTRON NYON
28 OZ. PER SQUARE YARD, CLASS 1 RADIANT TESTING, GLUE DOWN WIT 8 LB 1/4" PADDING.
CARPET SHALL HAVE A 10 YEAR WARRANTY, COLORS BY OWNERS.
ALL FLOOR TILE SHALL BE 12" VINYL COMPOSITION TILE - TYPE 1 (SOLID OLOR)



Horizontal SECTION
SCALE: 3" = 1'-0"



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

DOOR SCHEDULE

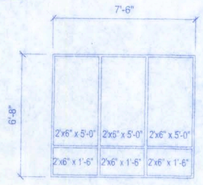
NO.	LOCATION	DOOR SIZE	TYPE	MATERIAL	JAMB MATERIAL	JAMB SIZE	LOCKS	DOOR CLOSER	PULL PLATE	PUSH PLATE	KICK PLATE	DOOR BUMPER	FIRE RATING
1	A/C CLOSET	PR 3/0 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 5/8	PASSAGE					X	
2	A/C CLOSET	PR 5/0 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 5/8	PASSAGE					X	

ENTRY LOCK - 400 TCP-3 BB
DEAD BOLT - 665 CP-3 BB
PRIVACY - 300 TCP-3 BB
PASSAGE - 200 TCP-3 BB
PUSH PLATE - 4"X16" BB
PULL PLATE - 4"X16" #132X70C BB
WALL DOOR BUMPER #407 1/2 - BB
- ALL LEVER TYPE HARDWARE SHALL BE KWIKSET (OR EQUAL), MOUNTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED HANDICAP MOUNTING HEIGHT.

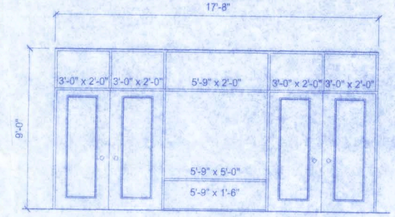

TYPE 1

GENERAL NOTES - DOORS

1. ALL INTERIOR DOORS SHALL BE 6 PANEL MASONITE (OR EQUAL) 6/8 x 1 3/8" PREHUNG UNLESS NOTED OTHERWISE. WITH 2" CASING TRIM AND RUBBER COVE BASE THROUGHOUT.
2. ALL EXTERIOR DOORS SHALL BE 6 PANEL FIBERGLASS, PREHUNG 6/8 X 1 3/4" - WOOD JAMBS WEATHERSTRIPPING, AND THRESHOLD FACTORY INSTALLED UNLESS NOTED OTHERWISE.
3. IF REQUIRED, UNDERCUT DOORS FOR RETURN AIR. COORDINATE WITH MECHANICAL SUB-CONTRACTOR AS PER FINAL DESIGN.
4. CONFIRM DEPTHS OF ALL WOOD FLAT JAMBS. COORDINATE WITH CORRESPONDING WALL SECTIONS, PARITION TYPES, AND WALL MODIFICATION DETAILS.
5. PAINT ALL EXTERIOR SURFACES OF EXTERIOR METAL DOORS AND THE SOLID WOOD DOOR FRAME. COLOR SELECTION BY OWNER.
6. PAINT ALL INTERIOR SURFACES OF EXTERNAL METAL DOORS AND THE SOLID WOOD DOOR FRAME. COLOR SELECTION BY OWNER.
7. PAINT ALL INTERIOR WOOD FLAT JAMBS. COLOR SELECTION BY OWNER.
8. PAINT ALL INTERIOR DOORS. COLOR SELECTION BY OWNER.



A TYPICAL WINDOWS



B ENTRY DOORS WITH WINDOWS

SWING ENTRANCES & STOREFRONTS

MANUFACTURER:

YKK AP AMERICA, INC.
7606 CURRENCY DRIVE
ORLANDO, FL 32807

FINISH:

IN ACCORDANCE WITH AA-M12C22A42/A44
COLOR: DARK BRONZE

GLAZING:

STOREFRONT DOORS - MEDIUM STILE 30D:

1/4" TEMPERED GLASS

STOREFRONT 1 3/4" X 4 1/2" "C-SLOT":

1/4" TEMPERED GLASS WHERE REQUIRED BY 2004 FBC AND 1/4" ANNEALED GLASS, ELSEWHERE

DOOR HARDWARE:

CLOSER - "LCN 1460 SERIES"

OFFSET PIVOTS

LOCKS - "ADAMS-RITE" Nr.: 4015 TWO POINT LOCK

INSTALLATION REQUIREMENTS:

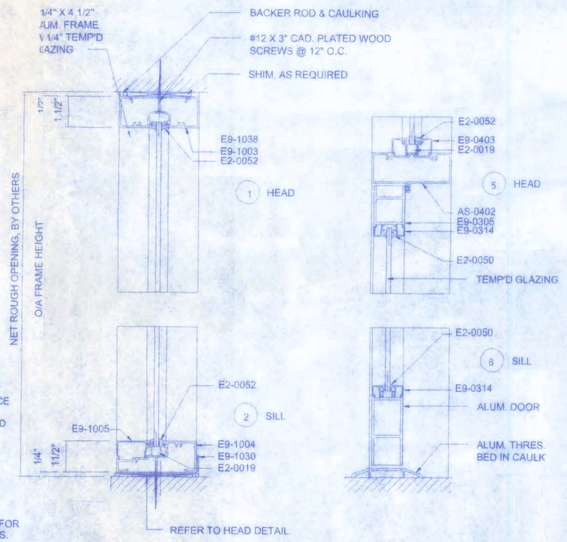
CONTRACTOR SHALL PREPARE OPENINGS IN ACCORDANCE WITH THE TOLERANCES AS SPECIFIED IN THE PROJECT SPECIFICATIONS - WITH NET OPENING SIZES AS INDICATED IN THESE DRAWINGS.

NET OPENING WIDTH SHALL BE FRAME WIDTH + 1/2"

NET OPENING HEIGHT SHALL BE FRAME HEIGHT + 1/2"

CLEANING:

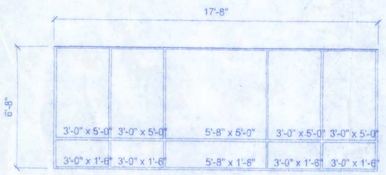
USE ONLY A SOLUTION OF A MILD LIQUID SOAP IN WATER FOR ALL SURFACES, INCLUDING GLAZING AND SASH MATERIALS.



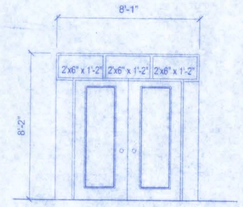
Vertical SECTION
SCALE: 3" = 1'-0"

Storefront Door DETAILS
SCALE : VARIOUS

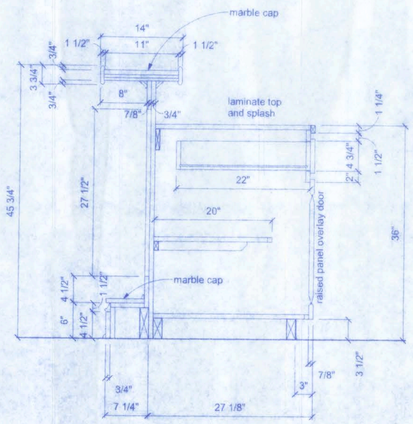
A



C WEST WALL WINDOWS



D PATIO ENTRANCE



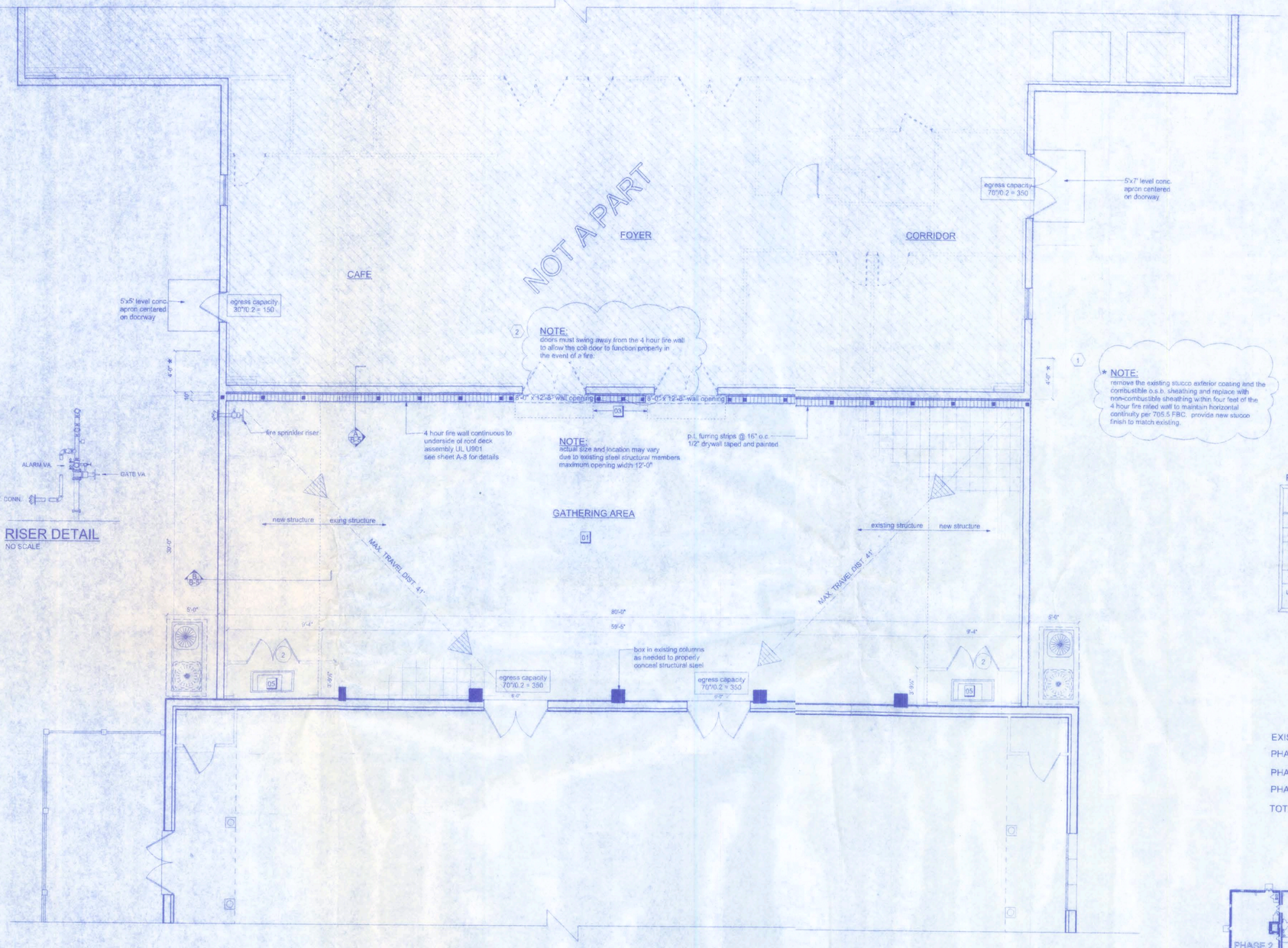
SECTION THRU BAR CABINET
NTS (OPTIONAL COFFEE BAR)

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

J. Todd Freeman
6/19/08
P.E. #55001

Freeman Design Group Inc
128 SW NASSAU STREET
LAKE CITY, FL 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

DATE 9/02/08	DRAWN BY J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET	A-10
OF	25
PROJECT NO.	07C045



PROPOSED FLOOR LAYOUT
SCALE: 3/16" = 1'-0"

NOTE:
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION w/2006 REVISIONS, AND IN ACCORDANCE WITH ASCE-7

BASIC WIND SPEED		110 MPH
IMPORTANCE FACTOR		1.15
BUILDING CATEGORY		2
EXPOSURE		B
INTERNAL PRESSURE COEFFICIENT		+/- 0.18
COMPONENT AND CLADDING PRESSURE	WALLS	+21.8/-29.1 PSF
	ROOF	+12.5/-29.1 PSF
	OVERHANGS	-71.6 PSF
TYPE OF STRUCTURE		ENCLOSED

01 16"x16" CERAMIC TILE FLOORING WITH HARDWOOD BASE AND TRIM
02 28 OZ. CARPET - GLUED DOWN WITH HARDWOOD BASE AND TRIM
03 3 HOUR FIRE RATED COIL DOOR
04 FIRE EXTINGUISHER CABINET WITH 10 LB. ABC DRY CHEM.
05 AIR HANDLER UNIT

PHASE 1

BUILDING USE, CLASSIFACATION & OCCUPANCY AS PER TABLES 503 & 1004.1.2, FLORIDA BUILDING CODE, 2004 ED.		
BUILDING GROUP OCCUPANCY		GROUP A-3
TABLE 503 TYPE OF CONSTRUCTION		TYPE II B - SPRINK.
TABLE 503 AREA/HEIGHT LIMITATIONS HEIGHT & AREA INC. FOR SPRINKLERED BLDG. HEIGHT INCREASE = 1 STORY, AREA INC. = 200%		18.0 KSF/3 STORY
OCCUPANT LOAD		
LOAD CAPACITY S/NET = 2,150 SF/5 = 430		430 OCCUPANTS

PHASE 3 AREA SUMMARY
CONDITIONED AREA 2,400 SF

PROJECT SUMMARY

EXISTING SANCTUARY	MAIN FLOOR = 16,980 SF UPPER FLOOR = 4,270 SF
PHASE 1	CONDITIONED AREA = 7,200 SF PORTE COSHERE = 832 SF
PHASE 2	MAIN FLOOR 4,800 SF UPPER FLOOR 4,800 SF
PHASE 3	CONVERTED PORTE CO = 1,800 SF ADDITIONAL ENCLOSED AREA = 600 SF

TOTAL ACCUMULATED SQUARE FOOTAGE = 41,282 SQ. FT.



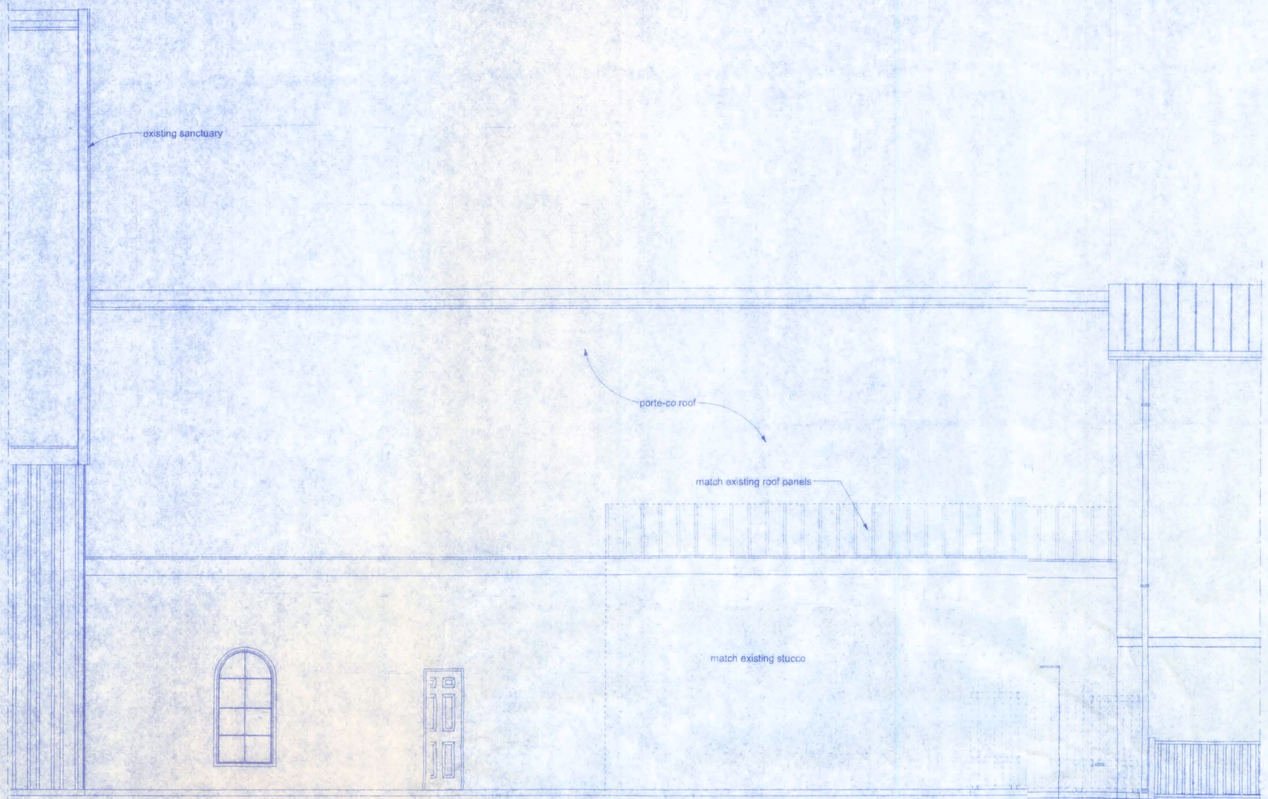
KEY SHEET

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

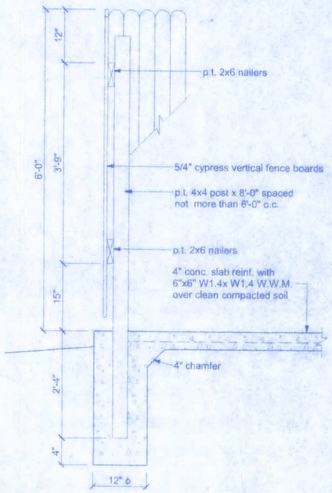
P.E. #56087

Freeman Design Group Inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

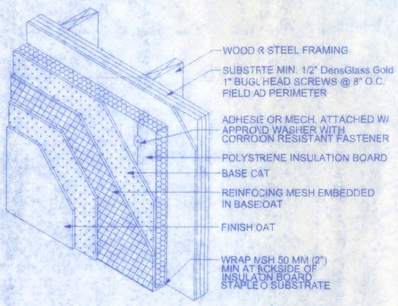
DATE 12/8/08
DRAWN BY J.D.
APPROVED W.H.F.
REVISIONS
1 non-combustible sheathing 2/2/09
2 door swing note 1/21/09
SHEET B-1
OF 25
PROJECT NO. 09.C001



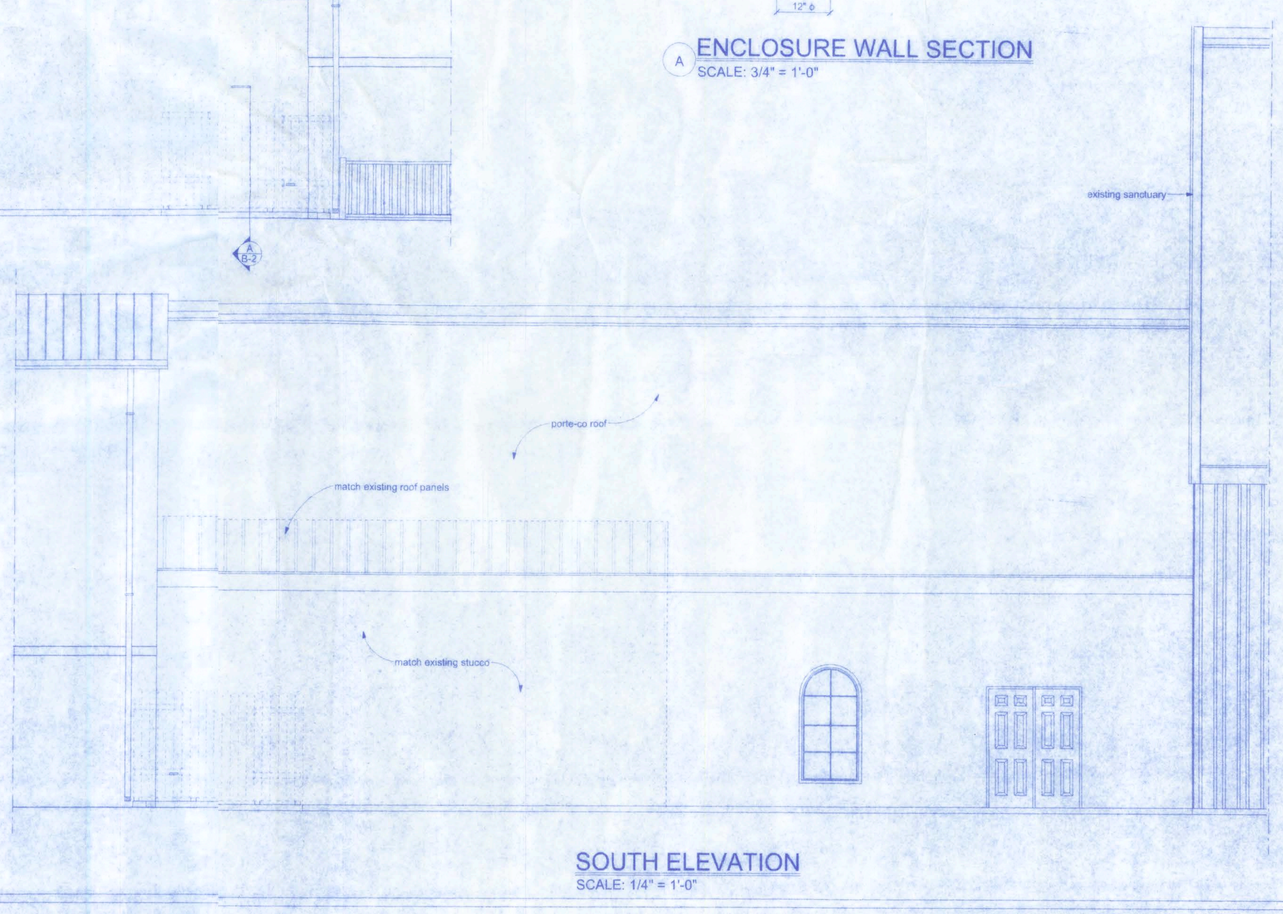
NORTH ELEVATION
SCALE: 1/4" =1'-0"



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



1 EIFS STANDARD DETAIL
NTS

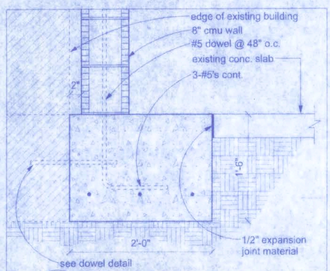


SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

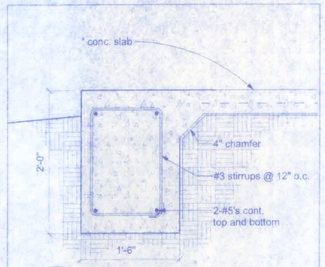
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

Freeman Design Group Inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

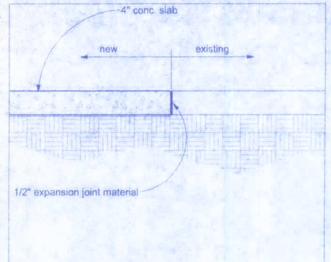
DATE 12/8/08
DRAWN BY J.T.D.
APPROVED W.H.F.
REVISIONS
SHEET B-2
OF 25
PROJECT NO. 08.C001



1 FOOTING @ FIREWALL
SCALE: 1" = 1'-0"

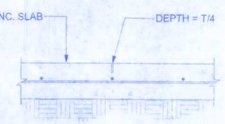


2 FOOTING @ SIDEWALL
SCALE: 1" = 1'-0"



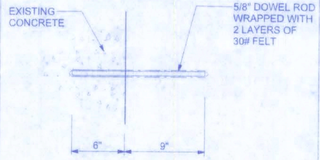
3 EXP. JOINT DETAIL
SCALE: 1" = 1'-0"

NOTE:
SAW CUT SHALL BE MADE WITHIN 24 HOURS OF POUR



4 SAWCUT DETAIL
SCALE: N.T.S.

NOTE:
DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER AND 1/8" DEEPER THAN EMBEDMENT LENGTH INTO EXISTING CONCRETE AND REMOVE DUST WITH OIL FREE COMPRESSED AIR. SET DOWELS WITH EPOXY INTO HOLES AND LET REMAIN UNTIL IT SETS.



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

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

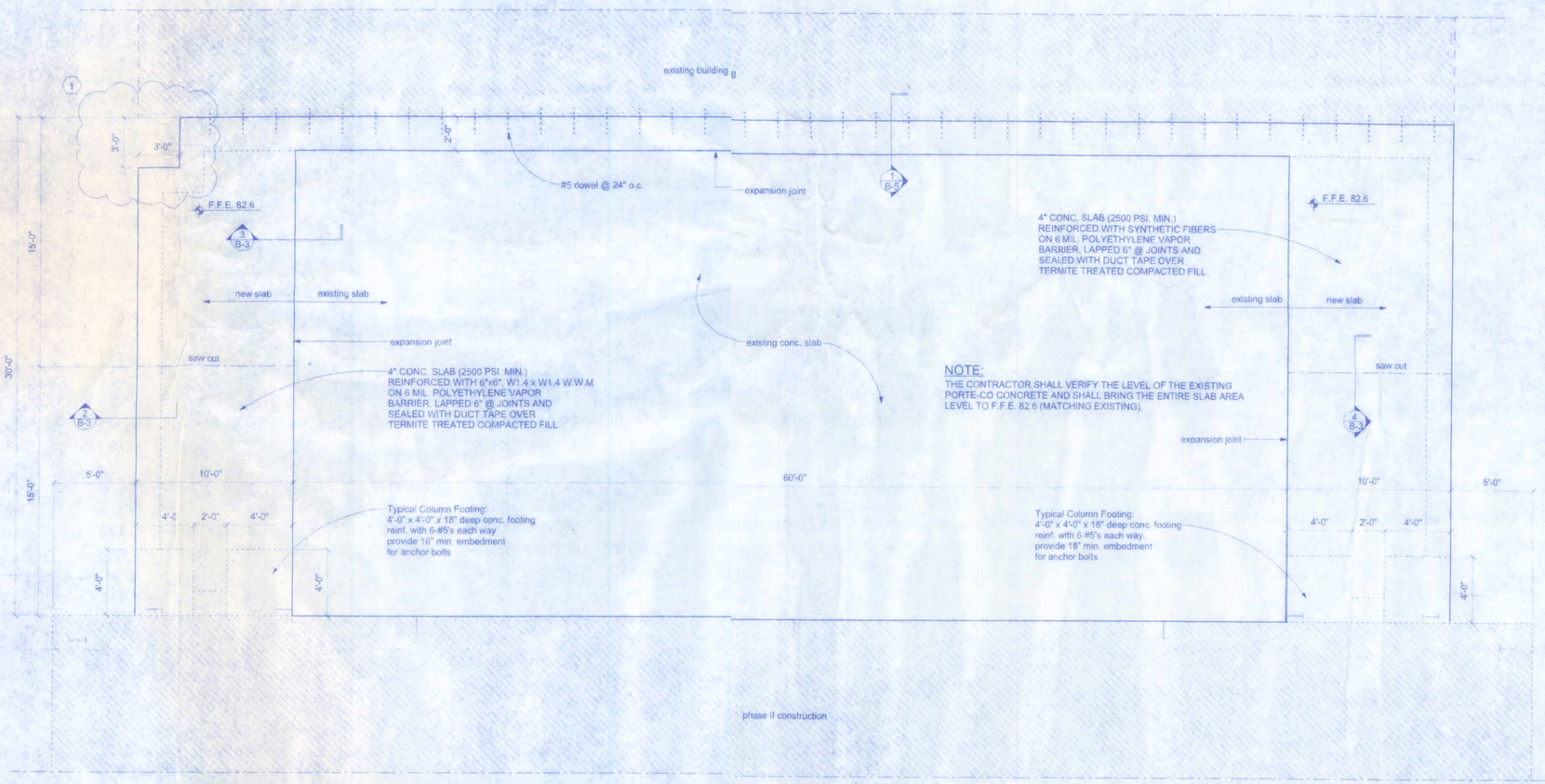
REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.
   EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

COVER OVER REINFORCING STEEL
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFROCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER

GALVANIZATION:
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

NOTE:
ALL ANCHOR BOLTS SHALL BE 3/4" DIAMETER BY 16" LONG



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

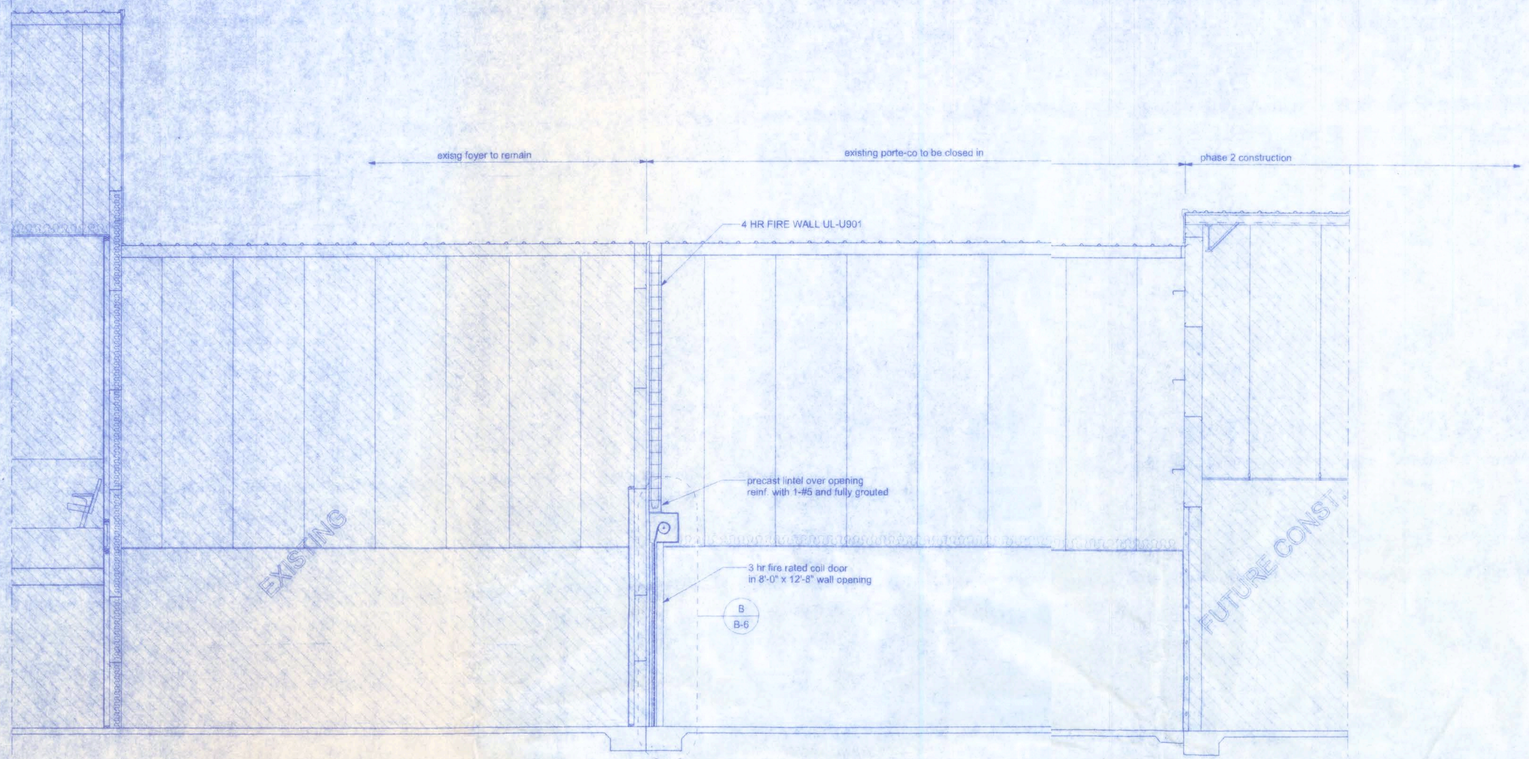
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

128 SW NASSAU STREET
LAKE CITY, FL 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 600087011
Freeman Design Group inc

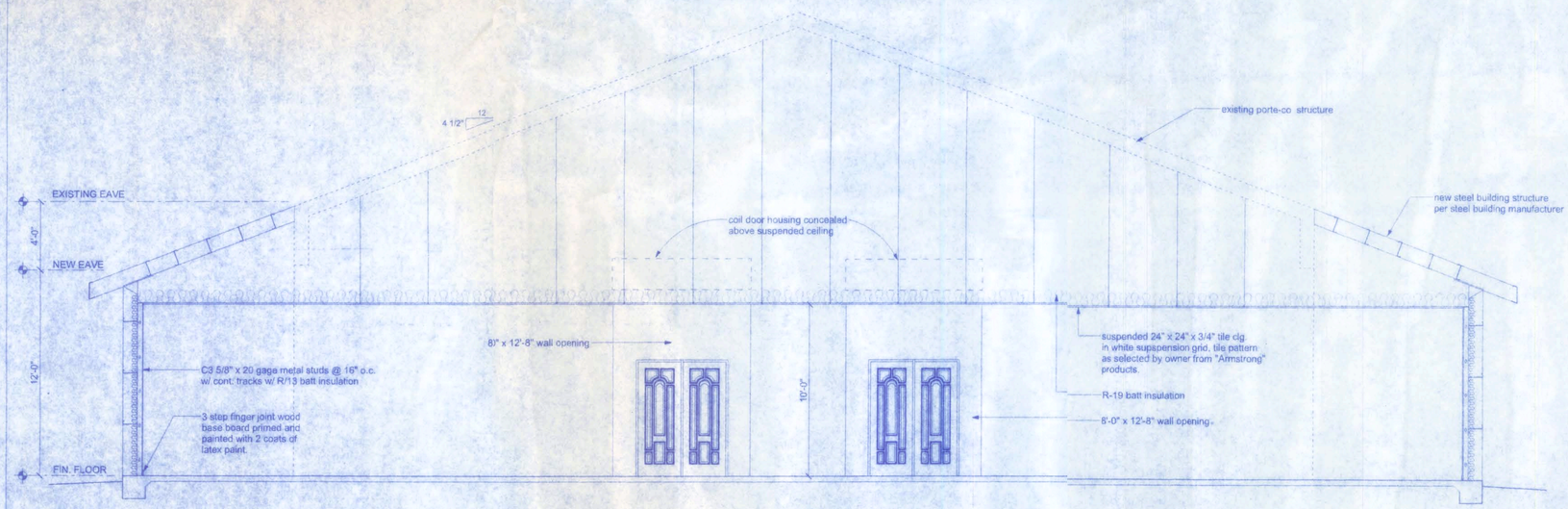
DATE 12/8/08	DRAWN BY J.T.D.
	APPROVED W.H.F.

REVISIONS
1 12-9-08 plg w noting for sprinkler riser

SHEET B-3
OF 25
PROJECT NO. 01.C001



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



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



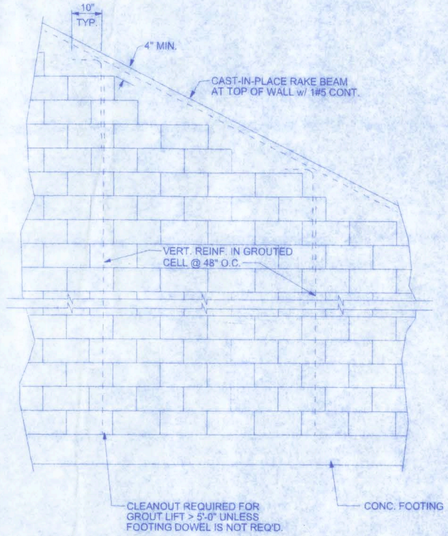
Lintel Concrete Strength = 4000 psi
Fill Concrete Strength = 3000 psi
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

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

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



4-HR FIREWALL REINF. DETAIL
SCALE: 1/2" = 1'-0"

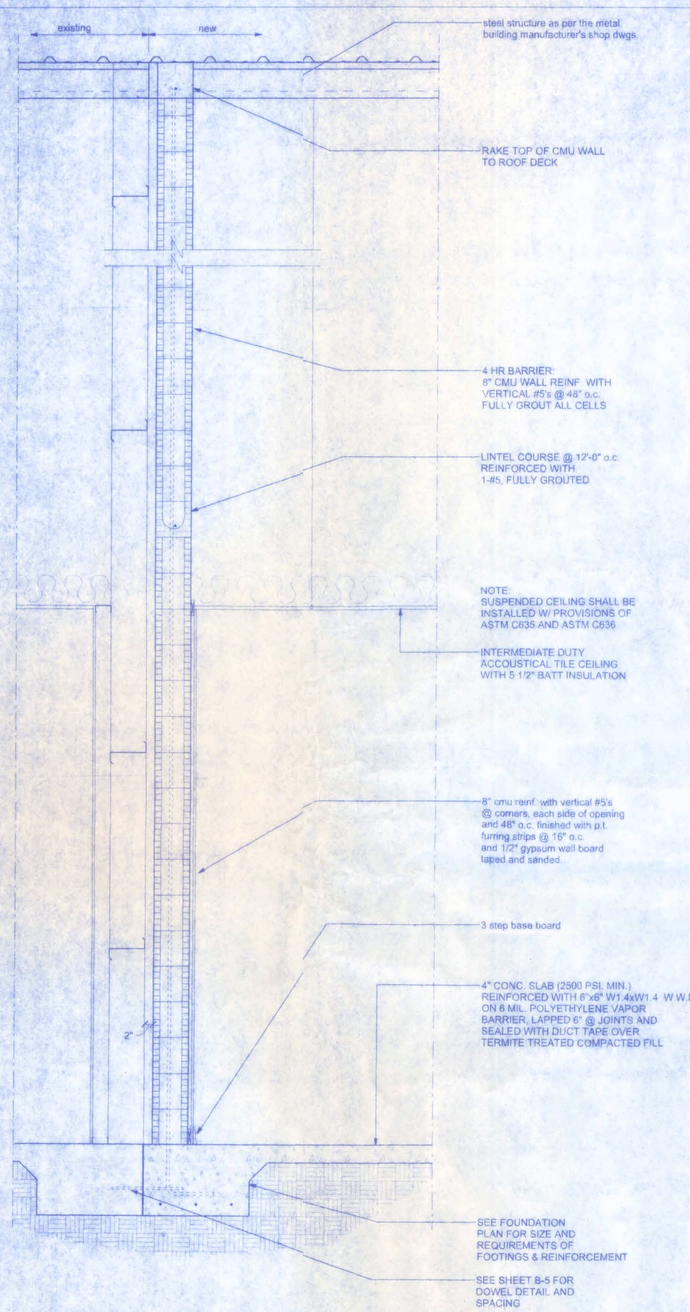
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

William A. Freeman 11/18/08 P.E. # 59907

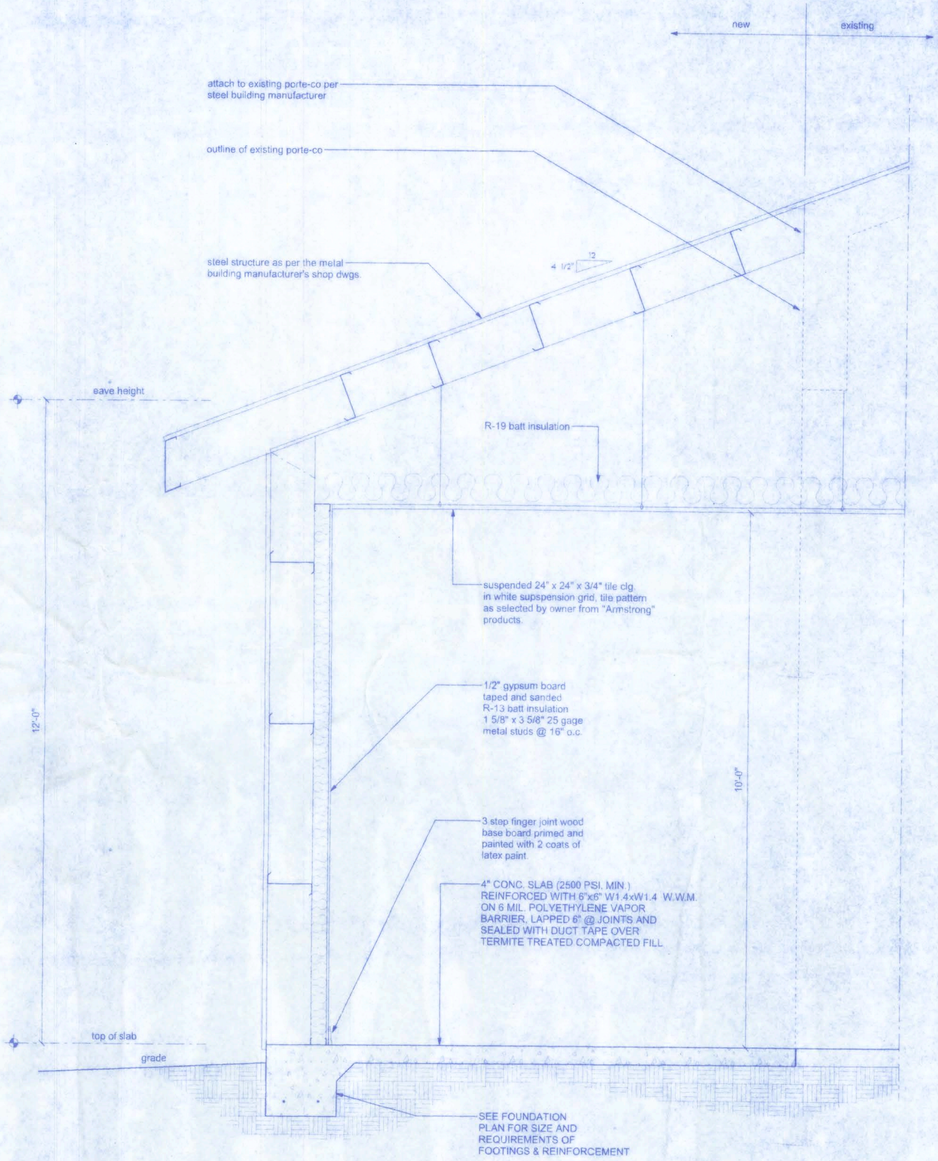
Freeman Design Group Inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209

CERTIFICATE OF AUTHORIZATION # 00008787

DATE 12/8/08	DRAWN BY J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET	B-4
OF	25
PROJECT NO.	08.C001



A TYPICAL WALL SECTION
SCALE: 1/4" = 1'-0"



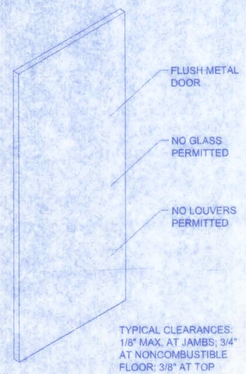
B SECTION
SCALE: 1/4" = 1'-0"

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

J. Allen Freeman 1/11/08 P.E. #58061

Freeman Design Group inc
128 S/W NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00006701

DATE 12/8/08	DRAWN BY J.TO
	APPROVED W.I.F
REVISIONS	
SHEET	B-5
OF	25
PROJECT NO	09.C001



TYPICAL CLEARANCES: 1/8" MAX. AT JAMBS; 3/4" AT NONCOMBUSTIBLE FLOOR; 3/8" AT TOP



TYPE OF PARTITION	RATING OF PARTITION	REQUIRED DOOR ASSEMBLY RATING
Corridors Smoke barriers	1 hour or less	20 minutes
Fire partitions Exit passageways Exit stairs Occupancy Separation Vertical shafts	1 hour	1 hour
Exit stairs Fire separations	2 hours	1 1/2 hour

Types of swinging fire doors include:

Composite fire doors: Wood, steel, or plastic sheets bonded to and supported by a solid core metal.

Hollow metal fire doors: Flush or panel design with a steel face of not less than 20-gage steel.

Metal-clad fire doors: Flush or panel design consisting of metal-covered wood cores or stiles and rails and insulated panels that are covered with steel of 24-gage or lighter.

Sheet metal fire doors: Steel of 22-gage or lighter of corrugated, flush sheet, or panel design.

Tin-clad fire doors: Wood core with a terne metal plate or galvanized steel facing (30- or 24-gag

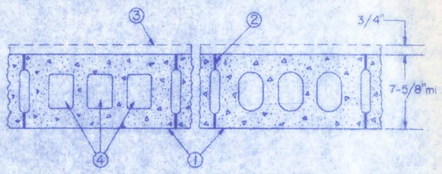
Wood core doors: Wood, hardboard, or plastic face sheets bonded to a woodblock or wood particleboard core material with untreated wood edges. Wood doors are available in fire ratings up to 90 minutes from some manufacturers, while hollow metal doors are required for ratings higher than 90 minutes.

Design No. U901

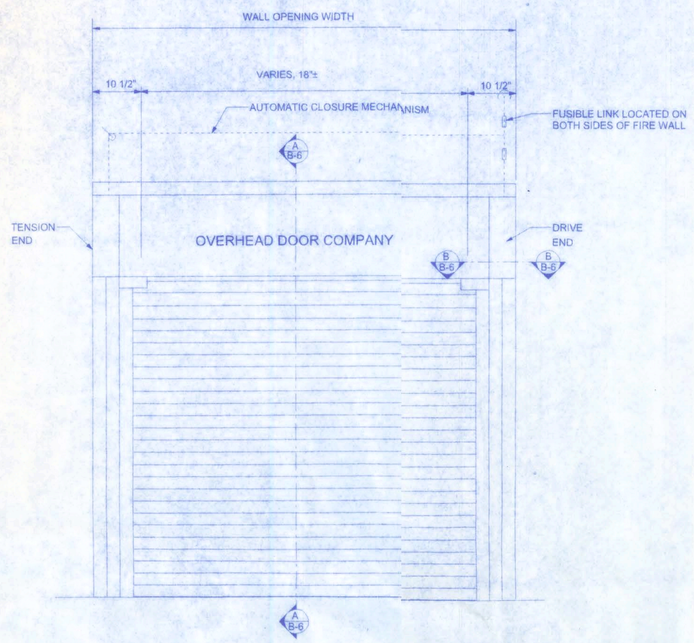
October 26, 1998

Bearing Wall Rating - 4 HR

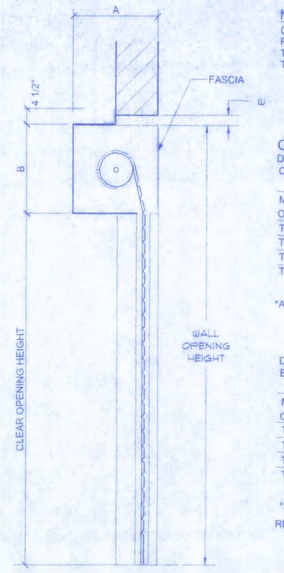
Nonbearing Wall Rating - 4 HR



1. Concrete Blocks* — Various designs. Classification B-4 (4 hr). See Concrete Blocks category for lists of eligible manufacturers.
2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volum and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Portland Cement Stucco or Gypsum Plaster — If used, add 1/2 hr to Classification.
4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, burned clay or shale (rotary kiln process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation, Class D-2 (2 hr) or C-3 (3 hr) concrete blocks will provide a 4 hr fire resistance rating.



ELEVATION
SERIES 631 FIRE DOOR



A SECTION
SERIES 631 FIRE DOOR

NOTE:
CONTRACTOR TO VERIFY THE PROPER ROUGH OPENING WIDTH PRIOR TO ORDERING THE COIL DOOR. DO NOT CONSTRUCT THE 4 HOUR FIRE WALL WITHOUT PRIOR VERIFICATION OF THE ROUGH OPENING SIZE FROM THE DOOR MANUFACTURER.

OVERHEAD DOOR COMPANY (OR EQUAL)
DIMENSION A AND B
C187 AND F265 SLATS

MAX. WALL OPENING HEIGHT	C187 SLAT A	C187 SLAT B*	F265 SLAT A	F265 SLAT B*
THRU 9'3"	17 1/2"	19"	19 1/2"	21"
THRU 10'0"	17 1/2"	19 1/4"	21 1/2"	23 1/4"
THRU 11'0"	17 1/2"*	19 3/8"*	21 1/2"	23 3/8"
THRU 12'0"	17 1/2"	19 1/2"	21 1/2"	23 1/2"

*ADD 2" TO "B" DIMENSION WHEN ELECTRICALLY OPERATED.

DIMENSION W
EXPANSION GAP

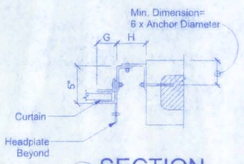
MAX. WALL OPENING HEIGHT*	W
THRU 6'0"	3/4"
THRU 8'0"	1"
THRU 10'0"	1 1/4"
THRU 12'0"	1 1/2"*

*HEADPLATE HEIGHT + "W" + 1/4" = EXPANSION GAP
REQUIRED FOR BETWEEN JAMB FIREDOOR ABOVE HEADPLATE.

DIMENSION W
EXPANSION GAP

MAX. WALL OPENING HEIGHT*	W
THRU 6'0"	3/4"
THRU 8'0"	1"
THRU 10'0"	1 1/4"
THRU 12'0"	1 1/2"*

*HEADPLATE HEIGHT + "W" + 1/4" = EXPANSION GAP REQUIRED FOR BETWEEN JAMB FIREDOOR ABOVE HEADPLATE.



B SECTION
SERIES 631 FIRE DOOR

Dimension G*
C187, C275 and F265 Slats

Max. Wall Opening Width	G
Thru 8'0"	2 3/4"
Thru 12'0"	3 1/4"
Thru 14'0"	3 1/2"
Thru 16'0"	3 1/2"
Thru 20'0"	4 1/4"
Thru 24'0"	5 1/4"

Dimension H*
Drive End

Type of Operation	H
Push-Up	4"
Elect., Chain, Crank	7 1/2"

Dimension H*
Tension End
C187, C275 and F265 Slats

Max. Wall Opening Width	H
Thru 14'0"	4"
Thru 20'0"	4 1/2"
Thru 24'0"	5 1/4"

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

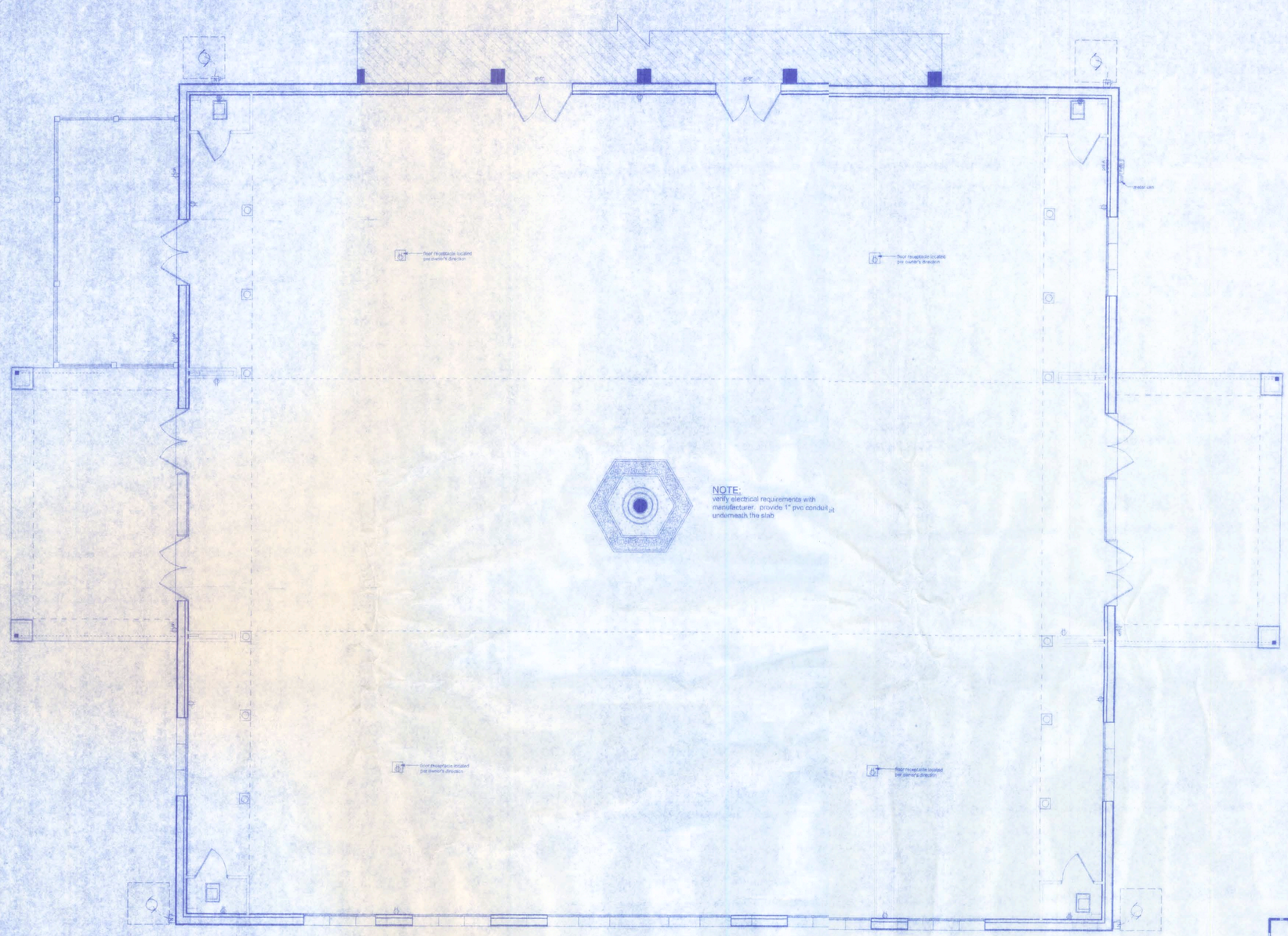
Freeman Design Group Inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00004761

DATE	DRAWN BY
12/8/08	J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET B-6
OF 25

PROJECT NO. 08.C001



NOTE:
verify electrical requirements with manufacturer. provide 1" pvc conduit pt underneath the slab

ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"

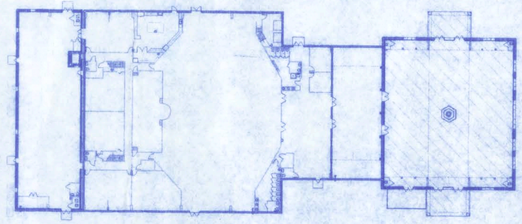
ELECTRICAL	SYMBOL
electrical panel	
motor	M
non fused disconnect	N
outlet	
outlet 220v	
outlet gfi	

WIRING NOTES:

WIRING DISTRIBUTION EQUIPMENT AND DEVICES
A. CONDUCTORS: Copper in accordance with ASTM Standards, size referred AWG. Conductors No.10 and smaller size are #, No. 8 and Larger, Stranded. Installation of conductor Thermoplastic, type THHN size No. 10 any wire installed outside, underground, in drain 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 inserts 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. LIQUID TIGHT FLEXIBLE CONDUIT: heavy duty neoe, size as indicated. Separate raceways shall be used for signal voltage system.
C. DISCONNECT SWITCHES: Heavy duty, horsepower rated for motor loads 250 Volt rating. Fused or non-fused as noted, number of poles as indicated. Enclosure NEMA 1 for interior use and NEMA 3R for weatherproof applications. Handle to be padlockable in "OFF" position.
D. CIRCUIT BREAKERS: molded case, thermal magnetic, quick make, quick break, trip-free type with manually operated insulated slip-free handle. Molded case frame with inverse common trip bar. Terminals suitable for copper or aluminum conductors. Interrupting capacity minimum 10,000 RMS symmetrical amperes unless circuit breakers to be Square "D", Siemens or equal, size as required.
E. PANELBOARDS: Voltage, phasing, and ampere ratings as indicated, circuit breaker type as indicated, bare bars of hard drawn copper, minimum 98% conductivity, one lug per each pole. door and trim: All doors square and vertical, hardware chrome plated with flush type door catch. Hinges semi-concealed, 3 knuckles steel with non-ferrous pins. 180 degree opening minimum door opens 6-1/4" edge, top and bottom. Increases size where required by code. Directory holder complete with clear plastic transparent cover including typewritten list of feeder utilities, number sizes, circuit number, points of equipment supplied, and their location. Circuit breaker type panelboards to be Square "D" type NQOD or I-Line, 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 one same manufacturer. Wall switches and receptacles to be 20 amps, 120 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 outlet boxes, raceways and all lighting fixtures. All conduit shall have equipment grounding conductors.

INSTALLATION:
A. Secure all raceways 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 equivalent. expect crossing where the raceways shall be at least 2 inches from pipe cover.
C. Cut conduit ends square, ream smooth. Paint field threads of field threaded conduit with Graphite loaded pipe compound. Draw up tight with conduit couplings.
D. Leave wire sufficiently long to permit making final connections. In raceway over 50 feet in which wiring is not installed, forman pull wire.
E. Verify locations of outlets and switches.
F. Support cable, junction and pull boxes independently on building structure with no weight bearing on conduits.
G. Connect conduit to motor conduit terminal boxes with flexible conduit, minimum 18 inches in length and 90% slack. Do not terminate in or fasten raceways to motor foundation.
H. The 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. The contractor shall warrant all labor and materials for one year from date of final written acceptance.



KEY SHEET

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

1/19/09
P.E. #59161

Freeman Design Group inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

DATE 9/02/08	DRWN BY J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET E-	
OF 25	
PROJECT NO. 07.C045	

WIRING NOTES:

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A. CONDUCTORS: Copper, in accordance with ASTM Standards, size reference AWG. Conductors No. 10 are smaller, size solid, No. 8 and Larger, Stranded. Insulation of conductor thermoplastic, type THW (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 unless as noted or required for wiring. ELECTRICAL METALLIC TUBING (EMT), thin wall pipe, galvanized, threadless, compression fittings, and minimum 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. Multi-pole types with internal common trip bar. Terminals suitable for copper or aluminum conductors. Interrupting capacity minimum 10,000 RMS symmetrical amperes unless circuit breakers to be Square "D", Siemens or equal, type as required.

E. PANELBOARDS: Ratings, phasing, and service voltage as indicated. Circuit breaker type as indicated, bare bus of hard drawn copper, minimum 98% conductivity, galvanized steel back box code and trim. All corners capped and welded, hardware chrome plated with flush lock and catch. Hinges semi-concealed, 5 knuckles steel with nonferrous pins, 180 degree openings. Minimum outer space 9 3/4" wide, top and bottom. Knockouts sized where required by code. Directory holder complete with clear plastic transparent cover indicating type and size of circuit cables, number poles, circuit number, name of equipment supplied, and their location. Circuit breaker type panelboards to be Square "D" type NQOD or HJ-line, 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 shall product of the same manufacturer. Wall switches and receptacles to be 20 amp, 120 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 circuit 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. Place raceways over walks, stoops or other going where pull boxes are not required; no raceway within 3 inches of closer of hot water pipes, or appliances except if running where the no newly shall be at least 3 inches from pipe or appliance.

C. Cut conduit square with saw or pipe cutter smooth. Ream inside threads of field threaded conduit with Greenlee taper reamer. Draw up tight with conduit couplings.

D. Leave 6" slack conductors long to permit making final connections. In raceway over 50 feet in which wiring is not installed, furnish pull wire.

E. Verify locations of outlets and switches.

F. Support panel, switches and pull boxes independently to building structure with no weight bearing on conduits.

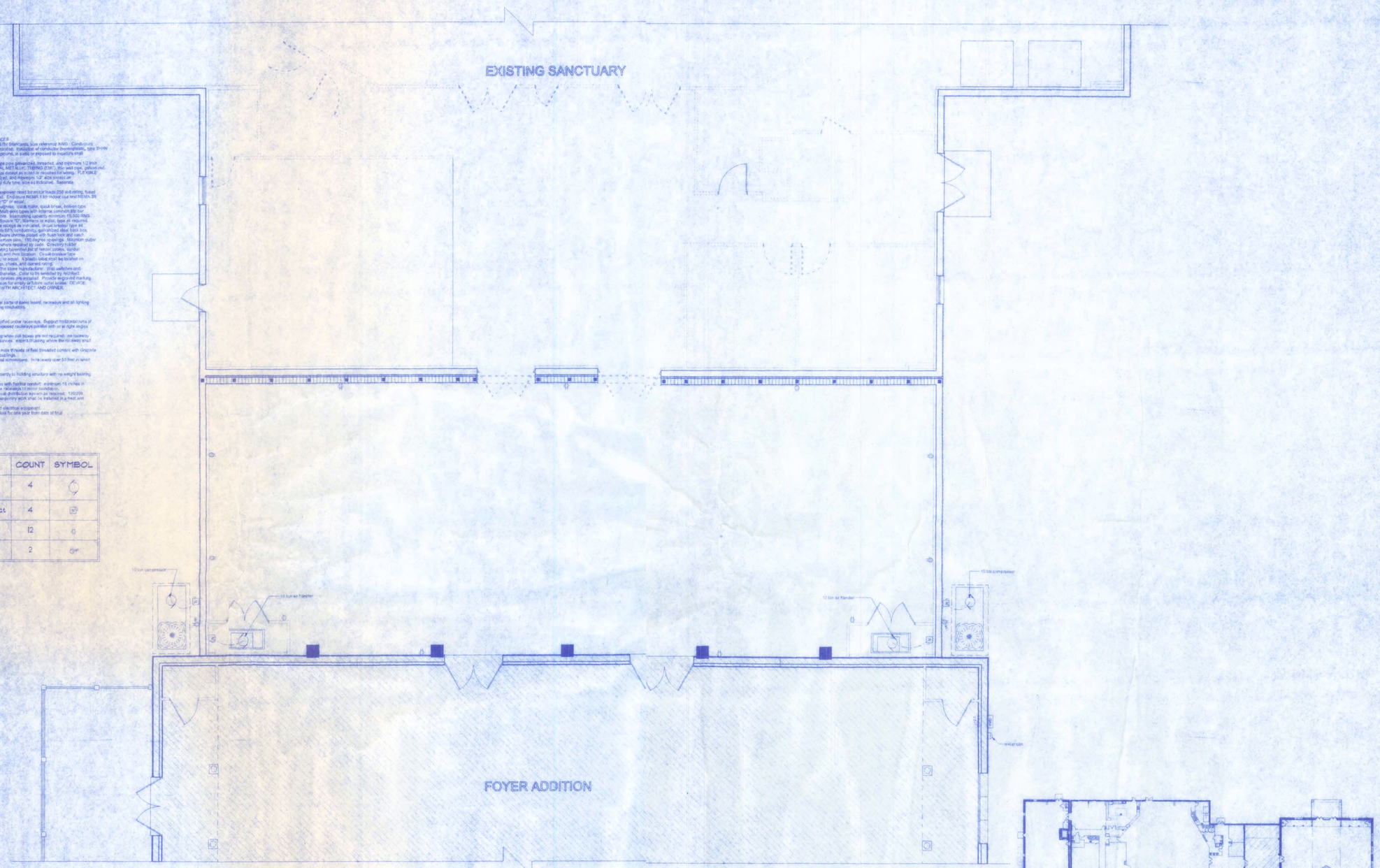
G. Connect conduit to motor conduit terminal boxes with flexible conduit, minimum 18 inches in length and 90% slack. Do not terminate in or fasten raceways to motor foundation.

H. The 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.

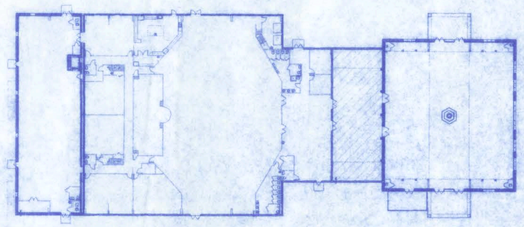
I. Contractor to remove and salvage all abandoned electrical equipment.

J. This contractor shall warrant all labor and material for one year from date of final written acceptance.

ELECTRICAL	COUNT	SYMBOL
motor	4	M
non fused disconnect	4	N
outlet	12	
outlet gfi	2	GFI



PROPOSED ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"



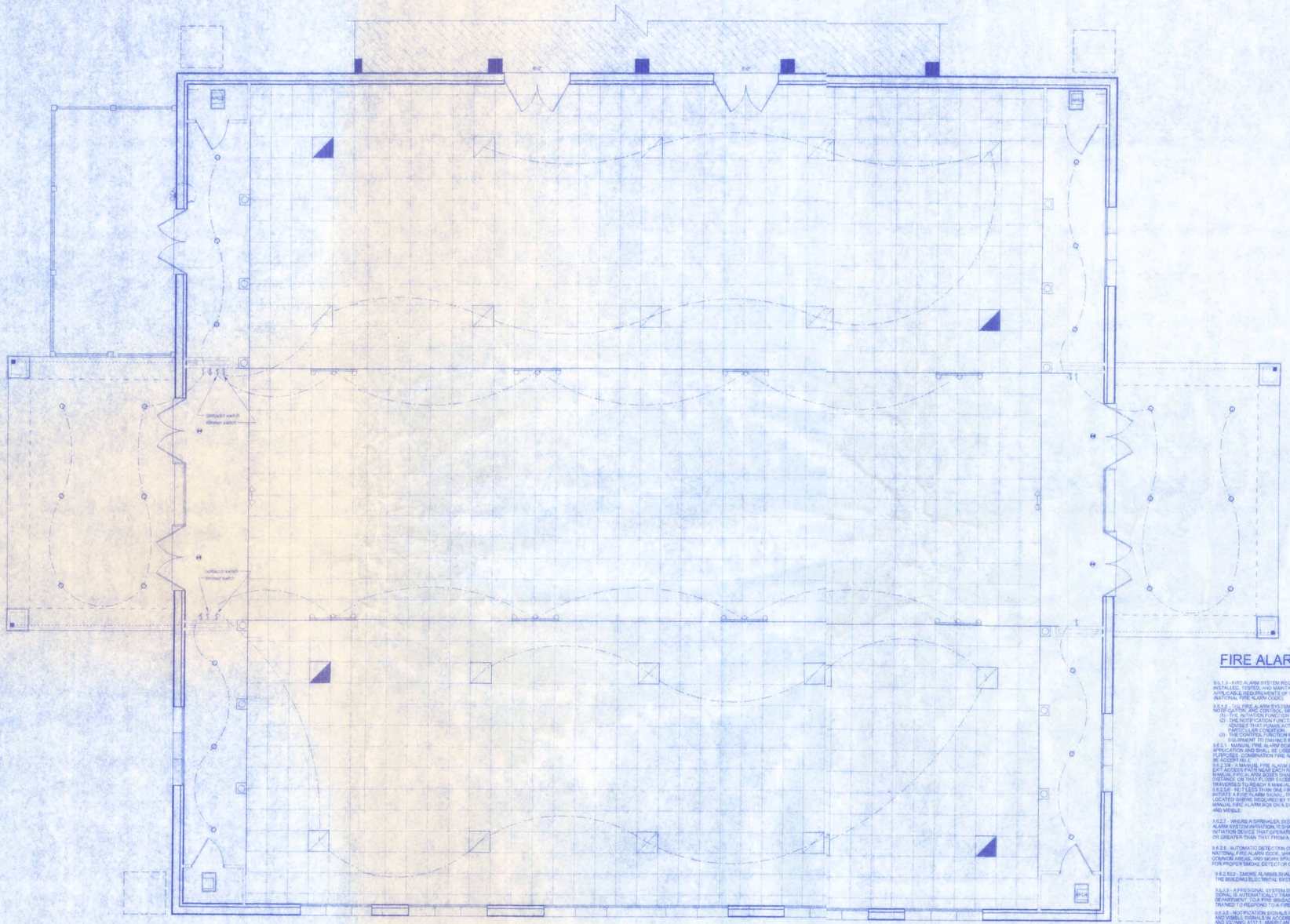
KEY SHEET

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

Freeman Design Group inc
128 S/W NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

William H. Freeman 11/9/09 P.E. # 59061

DATE 12/8/08	DRAWN BY J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET E-2	
OF 25	
PROJECT NO. 08.C001	



ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL	SYMBOL
recessed light	
track light	
wall sconce	
emergency light	
illuminated exit	
outlet	
switch	
fluorescent light 2 x 2	
night light	

LIFE SAFETY NOTES

ALL EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2004 EDITION.

ACCESS TO EXITS SHALL BE MARKED BY APPROVED READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH THE EXIT IS NOT READILY APPARENT TO THE OCCUPANTS. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIT ACCESS CORRIDOR IS MORE THAN 100 FT FROM THE NEAREST EXTERNALLY ILLUMINATED SIGN AND IS NOT IN EXCESS OF THE MARKED RATING FOR INTERNALLY ILLUMINATED SIGNS.

ALL FIRE EXTINGUISHERS SHALL BE TYPE 10AB AND SHALL BE LOCATED SO THAT NO POINT IN THE DIRECTION OF TRAVEL FROM ANY POINT IS MORE THAN 15 FT TO THE FIRE EXTINGUISHER.

NOTE:

ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE, 15 AND 20 AMP OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER, LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDNS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS. TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:

EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2005 EDITION.

NOTE:

lighting shall be connected to a contactor switch as directed by the owner.

NOTE:

track lighting shall be connected to a remote dimmer switch as directed by owner.

FIRE ALARM NOTES

907.1.3 - FIRE ALARM SYSTEM REQUIRED FOR LIFE SAFETY SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF NFPA 70, NEC, AND NFPA 72, NFAC (NATIONAL FIRE ALARM CODE).

907.2.9 - THE FIRE ALARM SYSTEM SHALL PROVIDE FUNCTIONS FOR INITIATION, NOTIFICATION, AND CONTROL, WHICH SHALL BE DEFINED AS FOLLOWS:
(1) THE INITIATION FUNCTION PROVIDES THE INPUT SIGNAL TO THE SYSTEM.
(2) THE NOTIFICATION FUNCTION IS THE MEANS BY WHICH THE SYSTEM ADVISES THAT HUMAN ACTION IS REQUIRED IN RESPONSE TO A PARTICULAR CONDITION.
(3) THE CONTROL FUNCTION PROVIDES OUTPUTS TO CONTROL BUILDING EQUIPMENT TO ENHANCE PROTECTION OF LIFE.

907.2.1 - MANUAL FIRE ALARM BOXES SHALL BE APPROVED FOR THE PARTICULAR APPLICATION AND SHALL BE USED ONLY FOR FIRE PROTECTIVE SIGNALING PURPOSES. COMBINATION FIRE ALARM AND GUARD'S TOUR STATIONS SHALL BE PROHIBITED.

907.2.1R - A MANUAL FIRE ALARM BOX SHALL BE PROVIDED IN THE NATURAL EXIT ACCESS PATH NEAR EACH REQUIRED EXIT FROM AN AREA. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT NO HORIZONTAL DISTANCE ON THAT FLOOR EXCEEDING 60% (200 FT) SHALL NEED TO BE TRAVERSED TO REACH A MANUAL FIRE ALARM BOX.

907.2.5R - NOT LESS THAN ONE FIRE ALARM BOX SHALL BE PROVIDED TO INITIATE A FIRE ALARM SIGNAL. THE MANUAL FIRE ALARM BOX SHALL BE LOCATED WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. EACH MANUAL FIRE ALARM BOX ON A SYSTEM SHALL BE ACCESSIBLE, UNOBSTRUCTED AND VISIBLE.

907.2.7 - WHERE A SPRINKLER SYSTEM PROVIDES AUTOMATIC DETECTION AND ALARM SYSTEM INITIATION, IT SHALL BE PROVIDED WITH AN APPROVED ALARM INITIATION DEVICE THAT OPERATES WHEN THE FLOW OF WATER IS EQUAL TO OR GREATER THAN THAT FROM A SINGLE AUTOMATIC SPRINKLER.

907.2.8 - AUTOMATIC DETECTION OF SMOKE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, SHALL BE PROVIDED IN ALL OCCUPIABLE AREAS, COMMON AREAS, AND WORK SPACES IN ENVIRONMENTS THAT ARE SUITABLE FOR PROPER SMOKE DETECTOR OPERATION.

907.2.10.2 - SMOKE ALARMS SHALL RECEIVE THEIR OPERATING POWER FROM THE BUILDING ELECTRICAL SYSTEM.

907.2.3 - A PREVISUAL SYSTEM SHALL BE PERMITTED WHERE THE INITIAL FIRE ALARM SIGNAL IS AUTOMATICALLY TRANSMITTED WITHOUT DELAY TO A MUNICIPAL FIRE DEPARTMENT, FIRE BRIGADE (IF PROVIDED), AND TO AN ON-SITE STAFF PERSON TRAINED TO RESPOND TO A FIRE EMERGENCY.

907.9.5 - NOTIFICATION SIGNALS FOR OCCUPANTS TO EVACUATE SHALL BE AUDIBLE AND VISIBLE SIGNALS IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND ICC/ANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. OTHER MEANS OF NOTIFICATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED.

907.9.6 - WHERE OCCUPANTS ARE INCAPABLE OF EVACUATING THEMSELVES BECAUSE OF AGE, PHYSICAL OR MENTAL DISABILITIES, OR PHYSICAL RESTRAINT, THE PRIVATE OPERATING MODE AS DESCRIBED IN NFPA 72, NATIONAL FIRE ALARM CODE, SHALL BE PERMITTED TO BE USED ONLY THE ATTENDANTS AND OTHER PERSONNEL REQUIRED TO EVACUATE OCCUPANTS FROM A ZONE, AREA, FLOOR, OR BUILDING SHALL BE REQUIRED TO BE NOTIFIED. THE NOTIFICATION SHALL INCLUDE MEANS TO READILY IDENTIFY THE ZONE, AREA, FLOOR, OR BUILDING IN NEED OF EVACUATION.

907.9.7R (1) (1) - AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL BE OF SUCH CHARACTER AND SO DISTRIBUTED AS TO BE EFFECTIVELY AUDIBLE ABOVE THE AMBIENT NOISE LEVEL IN ALL PARTS OF THE BUILDING WHERE THE ALARM IS USED TO NOTIFY THE OCCUPANCY. AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PRODUCE SIGNALS THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN A GIVEN BUILDING. AUDIBLE AND VISIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL BE USED ONLY FOR FIRE ALARM SYSTEM OR OTHER EMERGENCY PURPOSES. ALARM NOTIFICATION SIGNALS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS.

908.4.1R - EMERGENCY FORCES NOTIFICATION SHALL BE PROVIDED TO ALERT THE MUNICIPAL FIRE DEPARTMENT AND / OR BRIGADE (IF PROVIDED) OF FIRE OR OTHER EMERGENCY. THE FIRE ALARM SYSTEM SHALL BE ARRANGED TO TRANSMIT THE ALARM AUTOMATICALLY VIA ANY OF THE FOLLOWING MEANS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE:
(1) AUXILIARY ALARM SYSTEM
(2) CENTRAL STATION CONNECTION
(3) PROPRIETARY SYSTEM
(4) REMOTE STATION CONNECTION

907.5.1/2 - A FIRE ALARM AND CONTROL SYSTEM SHALL BE ARRANGED TO ACTUATE AUTOMATICALLY THE CONTROL FUNCTIONS NECESSARY TO MAKE THE PROTECTED PREMISES SAFER FOR BUILDING OCCUPANTS. THE FOLLOWING FUNCTIONS SHALL BE ACTIVATED BY THE COMPLETE FIRE ALARM SYSTEM:
(1) RELEASE OF HOLD-OPEN DEVICES F OR DOORS OR OTHER OPENING PROTECTIVES.
(2) STAIRWELL OR ELEVATOR SHAFT PRESSURIZATION.
(3) SMOKE MANAGEMENT OR SMOKE CONTROL SYSTEMS.
(4) EMERGENCY LIGHTING CONTROL.

908.9 - OPERATOR CONTROLS, ALARM INDICATORS, AND MANUAL COMMUNICATIONS CAPABILITY SHALL BE INSTALLED IN A CONTROL CENTER AT A CONVENIENT LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

907.2.20.4.3 - ALARM ANNUNCIATION AT THE CONTROL CENTER SHALL BE BY MEANS OF AUDIBLE AND VISIBLE INDICATORS. FOR THE PURPOSES OF ALARM ANNUNCIATION, EACH ALARM ZONE SHALL CORRESPOND TO ONE FLOOR OF THE BUILDING SHALL BE CONSIDERED AS A SEPARATE ZONE. WHERE A BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, THE FIRE ALARM ZONE SHALL BE PERMITTED TO COINCIDE WITH THE ALLOWABLE AREA OF THE SPRINKLER SYSTEM WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R, THE SPRINKLER SYSTEM SHALL BE PERMITTED TO BE ANNUNCIATED ON THE FIRE ALARM SYSTEM AS A SINGLE ZONE.

907.7.5 - A SYSTEM TROUBLE SIGNAL SHALL BE ANNUNCIATED AT THE CONTROL CENTER BY MEANS OF AUDIBLE AND VISIBLE INDICATORS. A SYSTEM SUPERVISORY SIGNAL SHALL BE ANNUNCIATED AT THE CONTROL CENTER BY MEANS OF AUDIBLE AND VISIBLE INDICATORS.

907.2.1.1 - SYSTEM INITIATION IN GROUP A OCCUPANCIES WITH AN OCCUPANT LOAD OF 1,000 OR MORE ACTIVATION OF THE FIRE ALARM IN GROUP A OCCUPANCIES WITH 1,000 OR MORE SHALL INITIATE A SIGNAL USING AN EMERGENCY VOICE/ALARM COMMUNICATIONS SYSTEM IN ACCORDANCE WITH NFPA 72.
EXCEPTION: WHERE APPROVED, THE PRERECORDED ANNOUNCEMENT IS ALLOWED TO BE MANUALLY DEACTIVATED FOR A PERIOD OF TIME, NOT TO EXCEED 3 MINUTES, FOR THE SOLE PURPOSE OF ALLOWING A LIVE VOICE ANNOUNCEMENT FROM AN APPROVED, CONSTANTLY ATTENDED LOCATION.

907.2.1.2 EMERGENCY POWER. EMERGENCY VOICE/ALARM COMMUNICATIONS SYSTEMS SHALL BE PROVIDED WITH AN APPROVED EMERGENCY POWER SOURCE.
NOTE: NO EXTINGUISHER REQUIREMENTS WHEN BUILDING IS AUTO SPRINKLED.
903.1.1 - EACH AUTOMATIC SPRINKLER SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING:
(1) NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
(2) NFPA 13R, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN RESIDENTIAL OCCUPANCIES UP TO AND INCLUDING FOUR STORIES IN HEIGHT.

907.7.3.2 - SUPERVISORY SIGNALS: SUPERVISORY ATTACHMENTS SHALL BE INSTALLED AND MONITORED FOR INTEGRITY IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND A DISTINCTIVE SUPERVISORY SIGNAL SHALL BE PROVIDED TO INDICATE A CONDITION THAT WOULD IMPAIR THE SATISFACTORY OPERATION OF THE SPRINKLER SYSTEM. SYSTEM COMPONENTS AND PARAMETERS THAT SHALL BE MONITORED SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, CONTROL VALVES, WATER TANK LEVELS AND TEMPERATURES, TANK HEATER, AND AIR PRESSURE ON DRY-PIPE VALVES. SUPERVISORY SIGNALS SHALL SOUND AND SHALL BE DISPLAYED EITHER AT A LOCATION WITHIN THE PROTECTED BUILDING THAT IS CONSTANTLY ATTENDED BY QUALIFIED PERSONNEL OR AT AN APPROVED, REMOTELY LOCATED RECEIVING FACILITY. WATERFLOW ALARMS SHALL BE TRANSMITTED TO AN APPROVED, PROPRIETARY ALARM-RECEIVING FACILITY, A REMOTE STATION, A CENTRAL STATION, OR THE FIRE DEPARTMENT.

907.5.1 - ALL AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.

907.5.1 - WHERE A REQUIRED AUTOMATIC SPRINKLER SYSTEM IS OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD, THE AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED AND THE BUILDING SHALL BE EVACUATED OR AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL PARTS LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE SPRINKLER SYSTEM HAS BEEN RETURNED TO SERVICE.

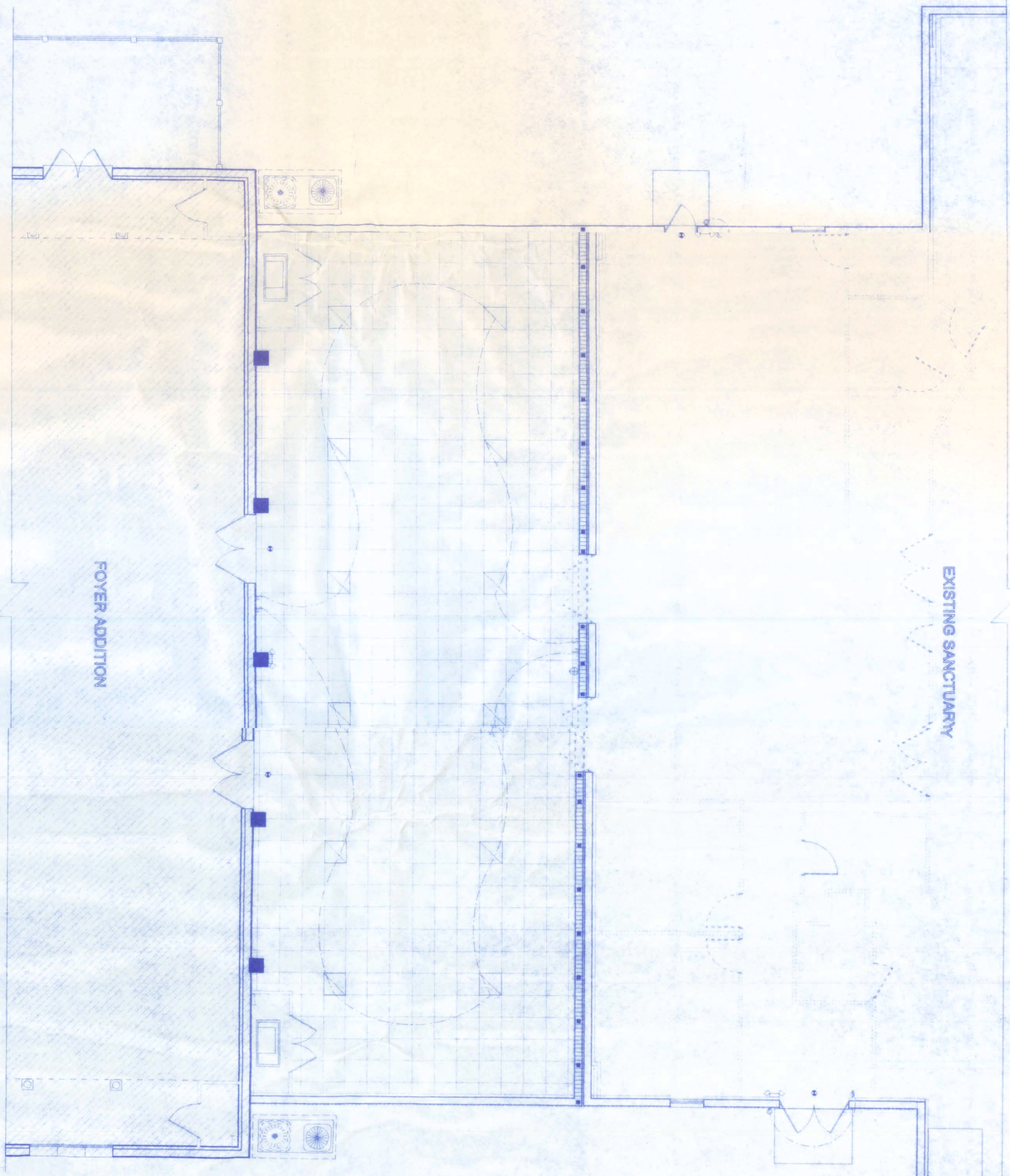
PROPER DOCUMENTATION, RECORD KEEPING, AND SPECIAL TESTING AND INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 9.7.7, 9.7.8 AND 8.6.1.3 OF THE LIFE SAFETY CODE HANDBOOK, 2009 EDITION.

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

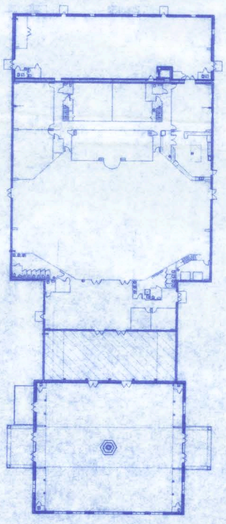
Freeman Design Group inc
128 SW NASSAU STREET
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(386)758-4209
CERTIFICATE OF AUTHORIZATION #0003876

11/9/09
P.E. #65367

DATE	DRAWN BY
9/02/08	J.T.D.
	APPROVED W.H.F.
REVISIONS	
SHEET	E-3
OF	25
PROJECT NO.	07.045



PROPOSED FLOOR LAYOUT
SCALE: 3/16" = 1'-0"



KEY SHEET

ELECTRICAL	COUNT	SYMBOL
fluorescent light 2 x 2	12	
wall mount	2	
emergency light	3	
exit	4	
Fire extinguisher	1	
switch	2	
switch 3 way	4	

LIFE SAFETY NOTES

Freeman Design Group inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

P.E. # 56000

DATE	12/8/08
DRAWN BY	J.T.D.
APPROVED	W.H.F.
REVISIONS	
SHEET	E-4
OF	25
PROJECT NO	09 C001

GENERAL LIGHTING LOAD (CONTINUOUS)

CHURCH BUILDING		
TOTAL AREA OF CHURCH (SF)		9600
1.0 VA PER SQUARE FOOT		9600
SUBTOTAL		9600
DEMAND FACTOR	125 %	**12000** watts

OUTSIDE LIGHTING (CONTINUOUS)

3000 VA @	125 %	**3750** watts

SIGN LIGHTING (CONTINUOUS)

3000 VA @	100 %	**3000** watts

RECEPTACLE LOADING (NON-CONT.)

Number of Receptacles		25
180 VA per receptacle		4,500
FIRST 10,000 VA X 100% =		4,500
REMAINING VALUE X 50% =		0
TOTAL		**4,500** watts

HEATING A/C LOADS

10 ton air handler fan motor		1,500
electric heat strip		12,980
number of motors =	6	86880
10 ton air handler fan motor		4000
electric heat strip		12,980
number of motors =	2	33960
TOTAL		**120840** watts

CALCULATING LARGEST MOTOR LOAD

HVAC motor		12980
demand factor =	25 %	**3245** watts

OCPD

GENERAL LIGHTING	12000
OUTSIDE LIGHTING	3750
SIGN LIGHTING	3000
RECEPTACLE LOAD	4,500
HEATING A/C LOADS	120840
LARGEST MOTOR	3245
TOTAL LOAD	**147335** watts

I = total load/208*1.73 = 370.2815 AMPS

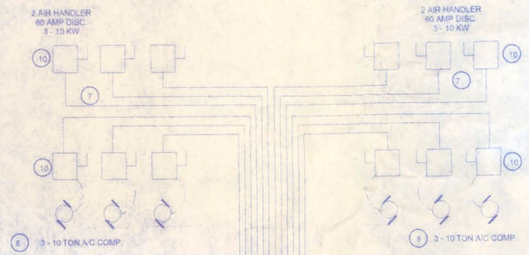
USE 600 AMP THREE PHASE POWER 120/208

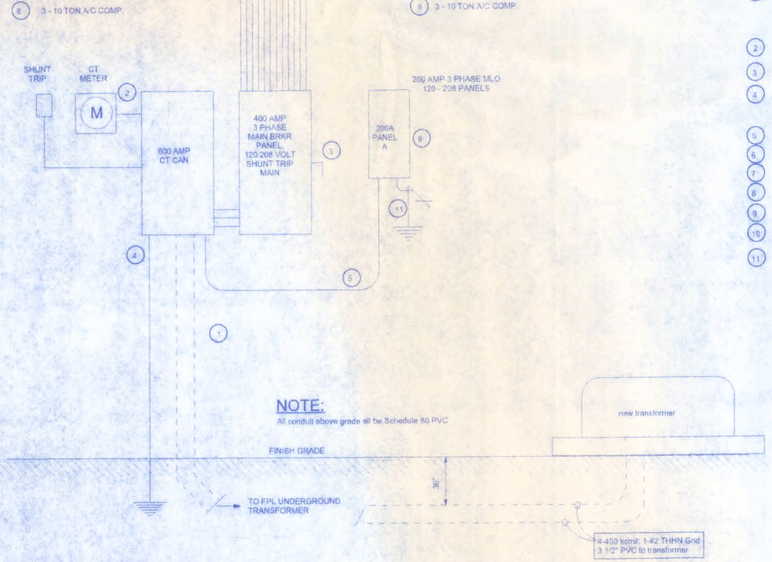
PANEL BOARD SCHEDULE

PANEL PNL A LOCATION UTILITY ROOM
TYPE SQ D, 'NQOD' MAIN LUGS ONLY MAIN BREAKER X AMPS 200
VOLTS 120/208 PHASE 3 WIRE 4 SINGLE POLES 42
A.I.C. RATING 10,000 KVA FEEDER SIZE 4 - 2/0 THWN, 1 - #6 THWN
FEED / TOP X BOTTOM
MOUNTING / SURFACE FLUSH X
CABINET / STANDARD X
TOTAL KW LOAD 23.25

WIRE	GND.	COND.	APPLICATION	LOAD	CIR.	BRK.		BRK.	CIR.	LOAD	APPLICATION	COND.	GND.	WIRE
12	12	3/4"	RECEPTACLE		1	20/1		20/1	2		RECEPTACLE	3/4"	12	12
12	12	3/4"	RECEPTACLE		3	20/1		20/1	4		RECEPTACLE	3/4"	12	12
12	12	3/4"	RECEPTACLE		5	20/1		20/1	6		EXT. LIGHTING	3/4"	12	12
12	12	3/4"	LIGHTING		7	20/1		20/1	8		LIGHTING	3/4"	12	12
12	12	3/4"	LIGHTING		9	20/1		20/1	10		LIGHTING	3/4"	12	12
12	12	3/4"	LIGHTING		11	20/1		20/1	12		LIGHTING	3/4"	12	12
12	12	3/4"	LIGHTING		13	20/1		20/1	14		LIGHTING	3/4"	12	12
12	12	3/4"	LIGHTING		15	20/1		20/1	16		EM. LIGHTING	3/4"	12	12
12	12	3/4"	SIGNAGE		17	20/1		20/1	18		FIRE ALARM CKT	3/4"	12	12
			SPACE		19 21 23				20 22 24		SPACE			
			SPACE		25 27 29				26 28 30		SPACE			
			SPACE		31 33 35				32 34 36		SPACE			
			SPACE		37 39 41				38 40 42		SPACE			

NOTE:
THE CIRCUIT FOR THE FIRE ALARM SHALL BE LABELED AS "FIRE ALARM CIRCUIT" AND SHALL BE PROVIDED WITH A CIRCUIT BREAKER LOCK.





1. Service Feeder Entrance Conductors: 3" rigid pvc conduit, min 18" deep, w. continuous ground bonding conductor. Service Entrance Conductors shall not be spliced except that bolted connections at the Meter, Disconnecting Devices and Panel shall be allowed; 3-400 MCM THWN in each conduit
2. New Meter Enclosure, weatherproof, U.L. Listed.
3. Main Disconnect Switch, fused or Main Breaker, weatherproof, U.L. Listed
4. Service entrance ground: 5/8" diameter copper steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per Item #5 below.
5. 200 Ampere Feeder: 4-2/0-THWN-Cu, 1-#6-Cu-GND, 2" Conduit.
6. Not Used
7. 60 Ampere Feeder: 4-#6 THWN-Cu, 1-#10-THWN-Cu-GND, 1-1/4" Conduit
8. 40 Ampere A/C Comp. Feeder: 4-#8 THWN-Cu, 1-#10-THWN-Cu-GND, 1-1/4" Conduit
9. House Panel (PNL), U.L. Listed; sized per schedule.
10. Equipment Disconnect Switch: non-fused; in weather proof enclosure, size according to Panel Schedule loads.
11. Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

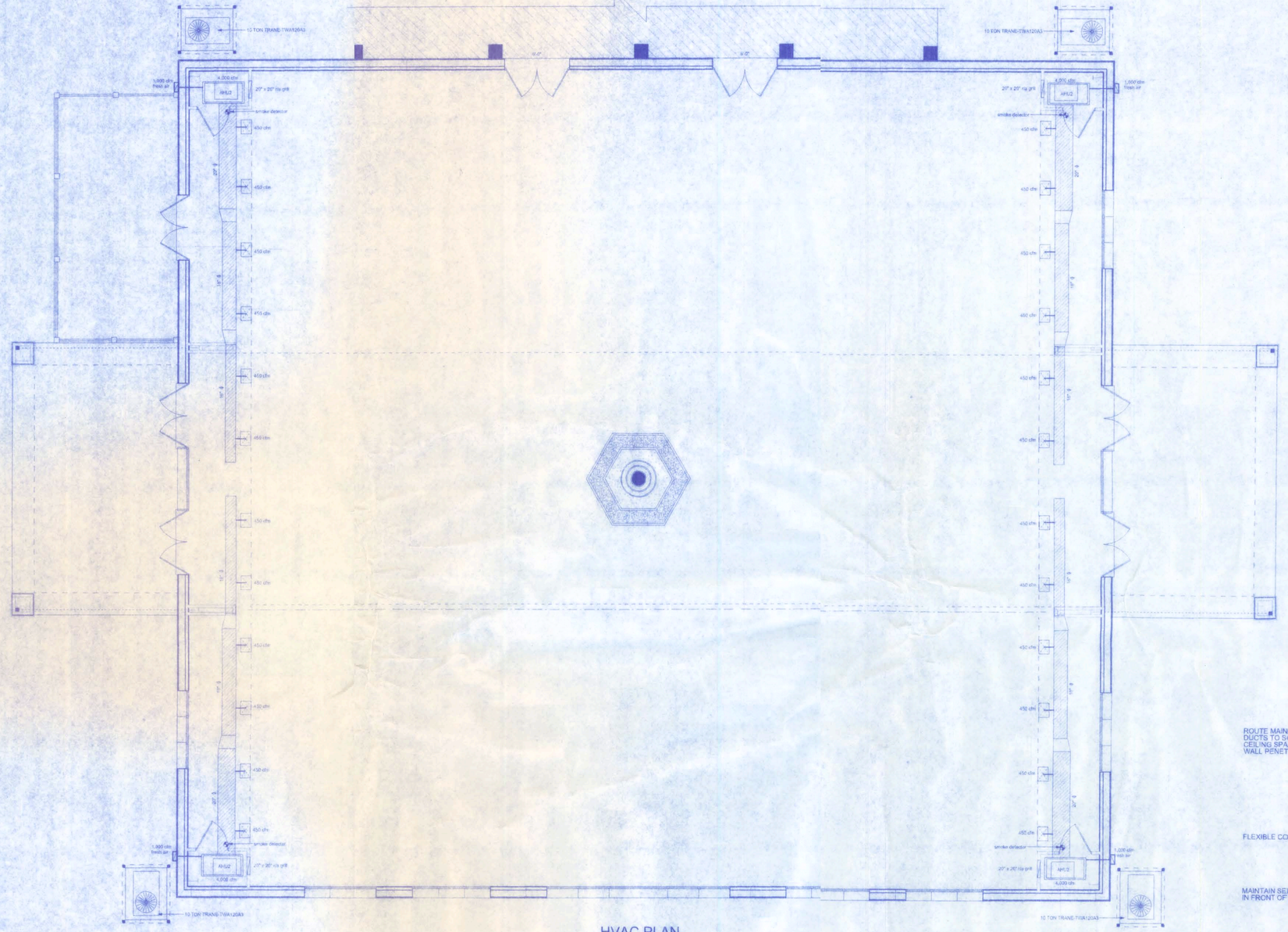
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

11/14/19
P.E. #56001

128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

Freeman Design Group INC

DATE 9/02/08	DRAWN BY J.F.D.
	APPROVED W.H.F.
REVISIONS	
SHEET E-5	
OF 25	
PROJECT NO. 07.C045	



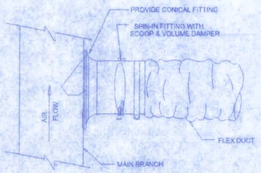
HVAC PLAN
SCALE: 3/16" = 1'-0"

HVAC NOTES

1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUJECT TO THE PROVISIONS OF NOTES G1 THRU G7, GENERAL NOTES.
2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM.
3. HVAC SYSTEM SHALL BE AS DETAILED 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 DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
5. IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
6. SHEET METAL DUCT AND FLEX PIPE SHALL BE USED IN ACCORDANCE WITH NORMAL PRACTICES AND STANDARDS, AND SHALL BE SUPPLIED BY THE HVAC SUB-CONTRACTOR.
7. ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMACNA STANDARDS.
8. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALAIRE, NAILORHART, HART & COOLIE OR AS DIRECTED BY THE OWNER.
9. 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.
10. 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.
11. ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSION.
12. ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSOR(S) SHALL BE WARRANTED 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 HINDRANCE TO COMPLETION OF THE JOB
14. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1.2" THICK ARMAFLEC INSULATION.
15. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT ARRESTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15 PROVIDE 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
16. HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
17. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
18. COORDINATE W/ THE ELECTRICIAN, TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

REQUIRED OUTDOOR VENTILATION PER TABLE 403.3 FMC.

LOCATION	CFM/PERSON	TOTAL CFM
LOBBY	20 CFM/PERSON 200 PERSONS VENTILATION = 200 * 20 = 4,000 CFM	4,000 CFM

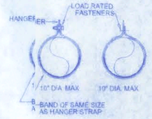


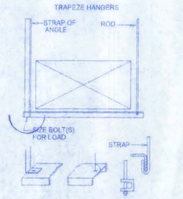
SPIN-IN COLLARFITTING DETAIL
NOT TO SCALE

ANGLE IRON & FASTER DIMENSIONS		
LENGTH	MIN. ANGLE SI	FASTENER LOCATION
0 - 48"	1-1/2" x 1-1/2" x 1/8"	8" ON CENTER
49 - 96"	2" x 2" x 1/8"	9" ON CENTER
OVER 96"	2-1/2" x 2-1/2" x 3/16"	9" ON CENTER

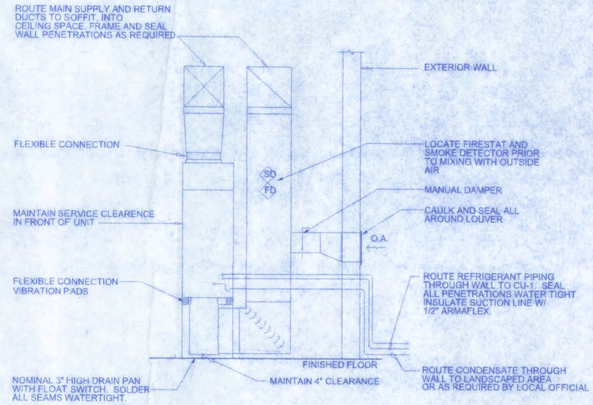
ANGLE IRON AND FASTENER DIMENSIONS		
LENGTH	MIN. ANGLE SIZE	FASTENER LOCATION
0 - 48"	1-1/2" x 1-1/2" x 1/8"	8" ON CENTER
49 - 96"	2" x 2" x 1/8"	9" ON CENTER
OVER 96"	2-1/2" x 2-1/2" x 3/16"	9" ON CENTER

NOTES:
1. WHERE MANUFACTURER'S INSTALLATION INSTRUCTIONS EXCEED THE REQUIREMENTS OF THIS DETAIL, THEY SHALL BE FOLLOWED.





DUCT SUPPORT DETAIL
NOT TO SCALE



A.H.U. MOUNTING DETAIL
NOT TO SCALE

CHRIST CENTRAL MINISTRIES SANCTUARY ADDITION

Freeman Design Group inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION #:00008701

DATE 9/02/08	DRAWN BY J.T.D.
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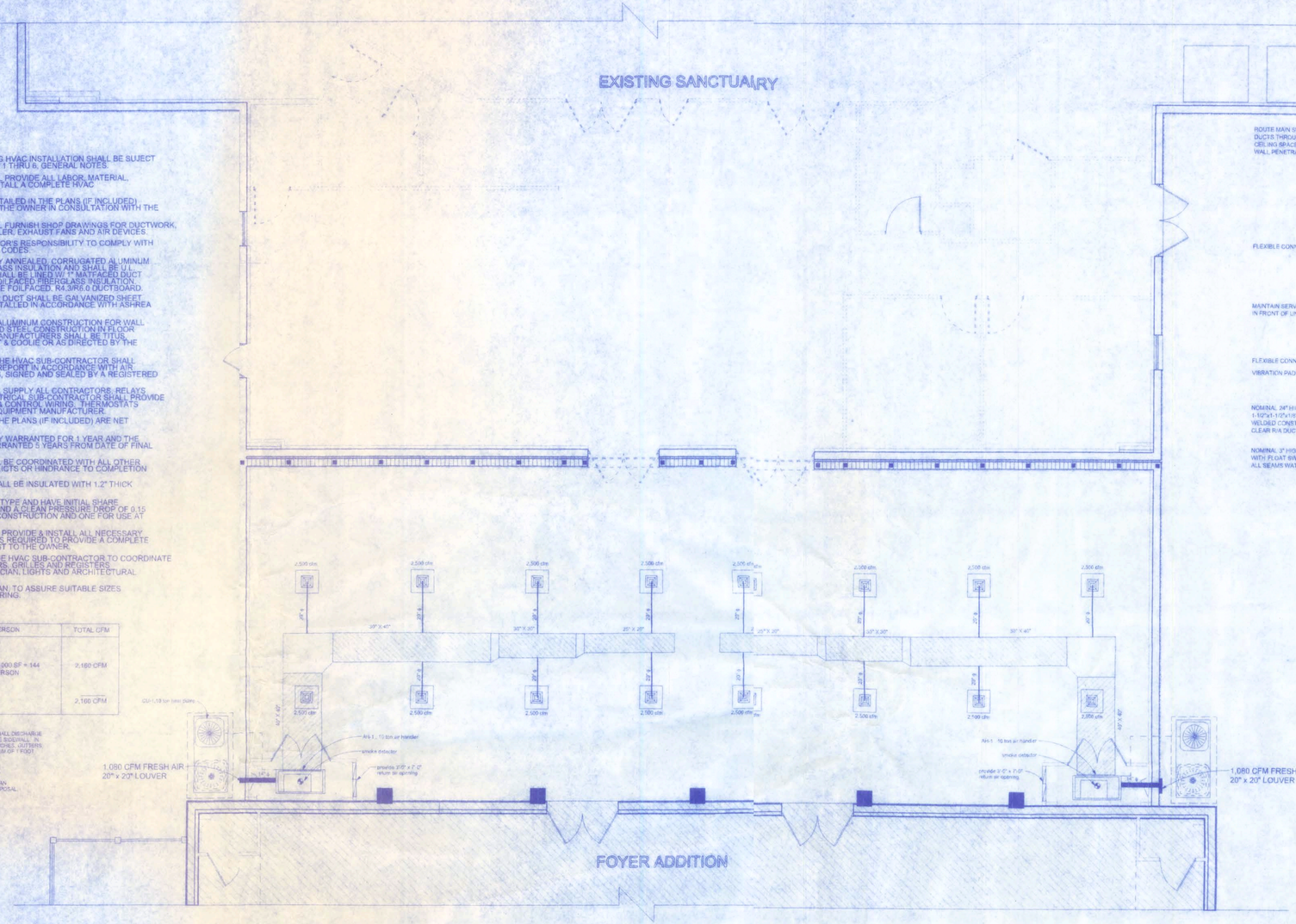
HVAC NOTES

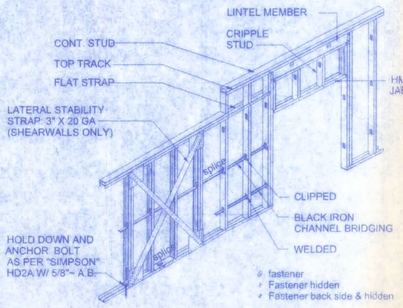
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5. IT IS THE HVAC SUB-CONTRACTORS RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
6. FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1-1/2 LB. DENSITY FIBERGLASS INSULATION AND SHALL BE U.L. LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MATFACED DUCT LINER & WRAPPED W/ 1 3/4 L. FOILFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOILFACED, R4.3/R0.6 DUCTBOARD.
7. ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMACNA STANDARDS.
8. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALAIRE, NAILORHART, HART & COOLIE OR AS DIRECTED BY THE OWNER.
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18. COORDINATE W/ THE ELECTRICIAN, TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

LOCATION	CFM/PERSON	TOTAL CFM
RECEPTION AREA	60 PERSONS/1000 SF = 144 15 CFM/PERSON	2,160 CFM
TOTAL		2,160 CFM

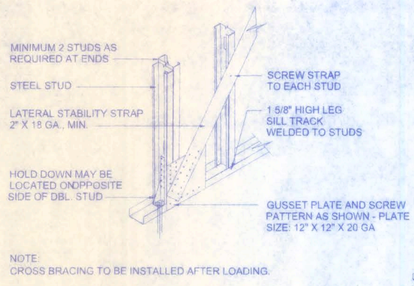
NOTE:
CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE ESTRUCTURE SUCH WALL. IN CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.

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

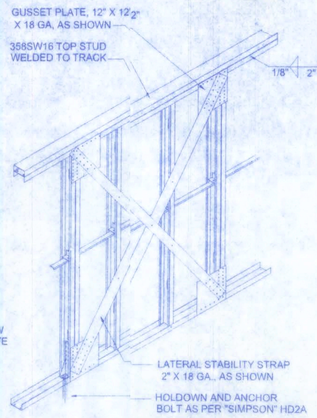

EXISTING SANCTUARY
2,500 cfm
20" X 40"
30" X 30"
25" X 25"
30" X 40"
2,580 cfm
2,500 cfm
2,100 cfm
2,500 cfm
2,500 cfm
2,500



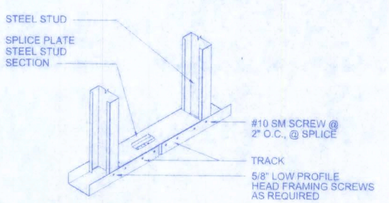
STRUCTURAL WALL ASSEMBLY



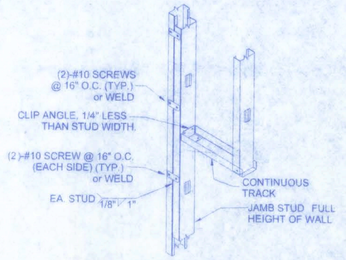
SHEAR WALL HOLD DOWN AT CROSS BRACE



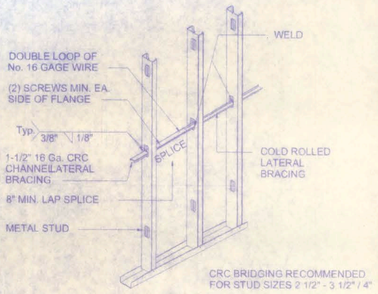
SHEAR WALL CROSS BRACE



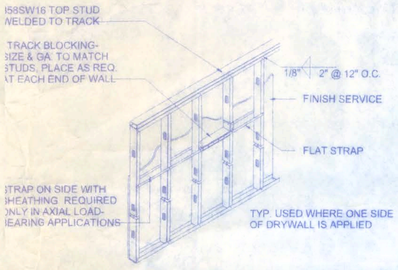
TRACK SPLICE



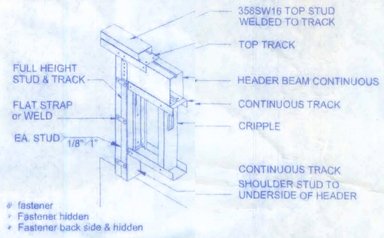
JAMB STUD DETAIL



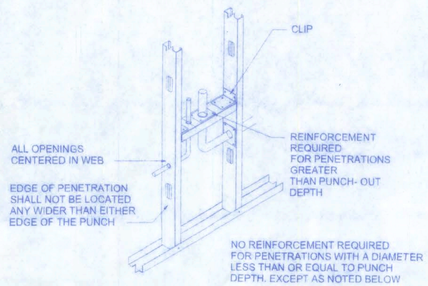
WELDED CRC BRIDGING



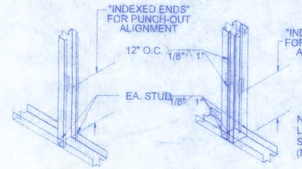
FLAT STRAP LATERIAL BRACING



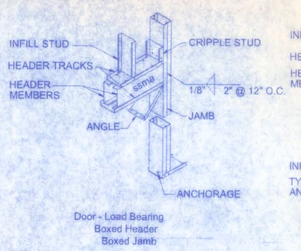
HEADER TO JAMB STUD DETAIL



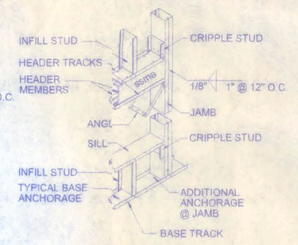
STUD WEB PENETRATIONS



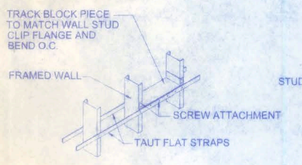
TYPICAL STUD TO TRACK CONNECTIONS



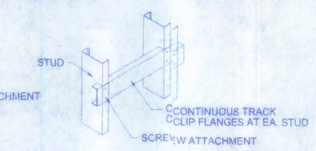
DOOR - LOAD BEARING
BOXED HEADER - BOXED JAMB



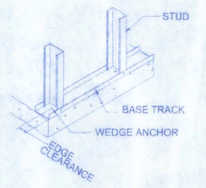
WINDOW - LOAD EARING
BOXED HEADER -OXED JAMB



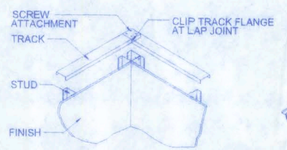
BRIDGING
DOUBLE FLAT STRAP W/BLOCKING



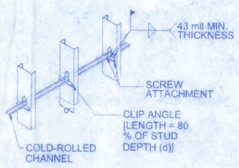
BACKING - CLIPPED TRACK - HVY. LOADED
(GRAB BARS, HANDRAILS, WALL HUNG CABINETS)



BOTTOM TRACK WEDGE ANCHOR



CORNER TRACK LAP CONNECTION



BRIDGING
COLD-ROLLED CHANNEL W/CLIP ANGLE

Metal Stud DETAILS

SCALE: NONE

NOTE!
ALL METAL STUDS IN AXIAL LOAD APPLICATIONS SHALL BE 358SW18 MINIMUM, W/ MATCHING TRACK, ALL WELDED JOINTS

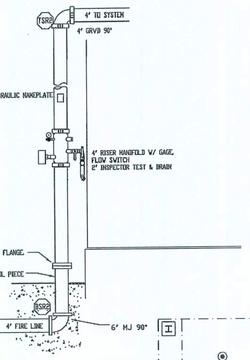
CHRIST CENTRAL MINISTRIES
SANCTUARY ADDITION

1/19/09
P.E. #58911

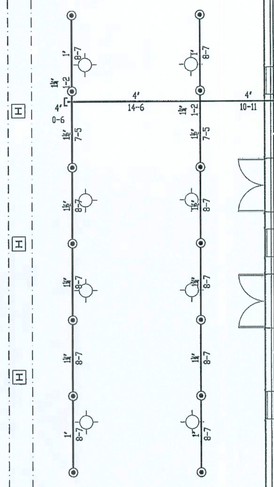
Freeman Design Group inc
128 SW NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

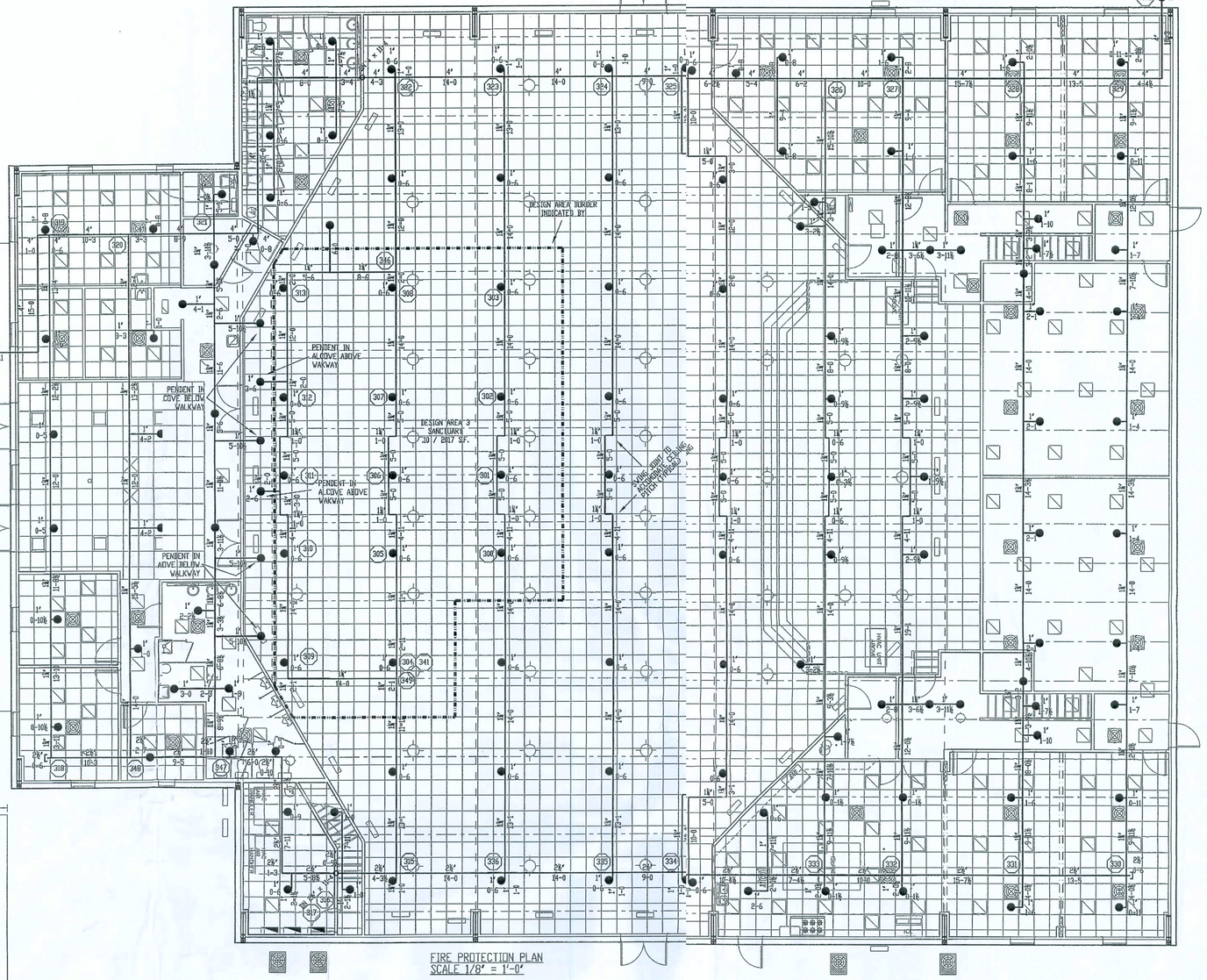
DATE 9/02/08
DRAWN BY J.D.
APPROVED W.H.F.
REVISIONS

SHEET S-1
OF 25
PROJECT NO. 07.C045

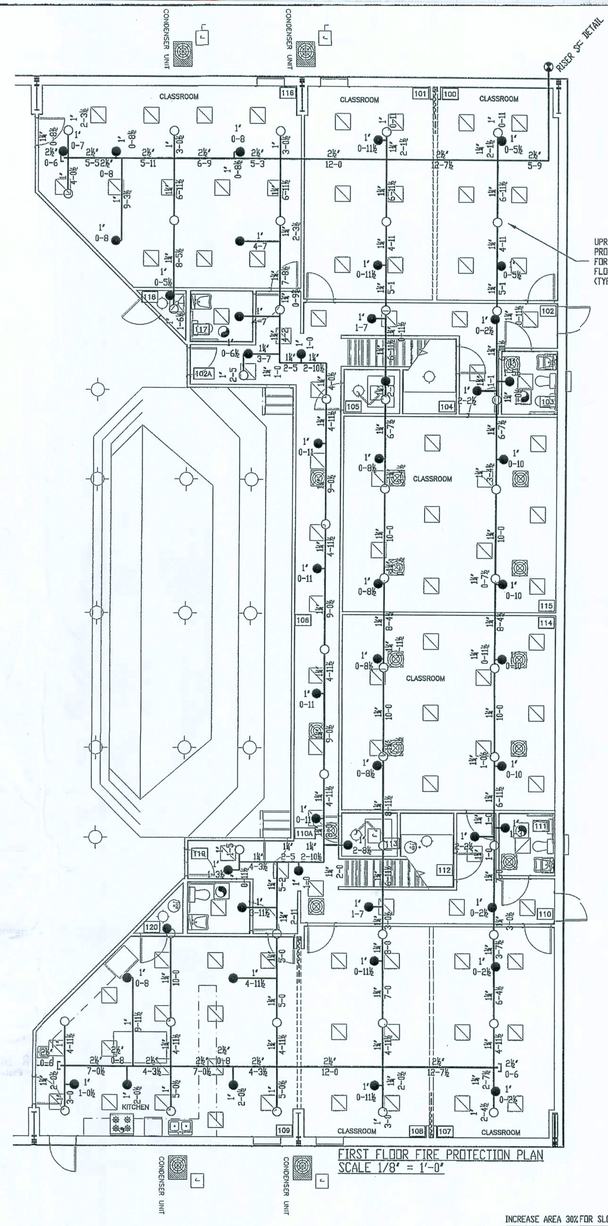


RISER DETAIL
NOT TO SCALE

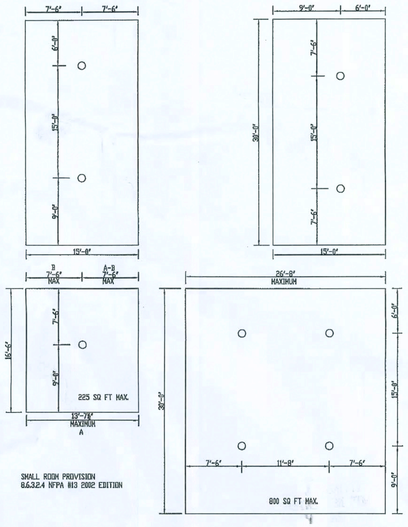




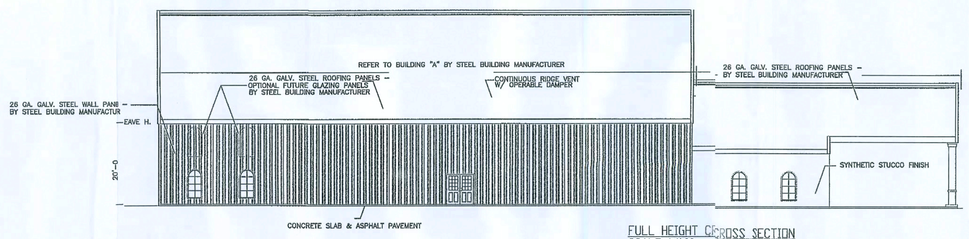
FIRE PROTECTION PLAN
SCALE 1/8" = 1'-0"



FIRST FLOOR FIRE PROTECTION PLAN
SCALE 1/8" = 1'-0"



SMALL ROOM PROVISION
8.6.3.2.4 NFPA #13 2002 EDITION



FULL HEIGHT CROSS SECTION
SCALE 1/16" = 1'-0"

INCREASE AREA 30% FOR SLOPE 11.2.3.2.4

HYDRAULIC CALCULATIONS

DESIGN AREA	AREA 3	
LOCATION	SANCTUARY	
SPRINKLER SPACING	225	SQ FT
TOTAL SPRINKLERS	14	
K-FACTOR	5.6	
DESIGN DENSITY	.10	GPM
DESIGN AREA	2017	SQ FT
AT BASE OF RISER		
DESIGN FLOW	358.4	GPM
DESIGN PRESSURE	88.272	PSI
OUTSIDE HOSE	100	GPM

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

GENERAL NOTES

1: ALL 1"- 2" PIPE WITH C.I. OR D.I. THREADED FITTINGS TO BE SCH-40
2: ALL 1¼" - 6" PIPE WITH WELD OR GROOVED FITTINGS TO BE SCH-10
3: DESIGN, EQUIPMENT, & INSTALLATION PER NFPA #13 2002 EDITION
4: IMPERIAL FIRE PROTECTION, INC. P.O.C. 1'-0" ABOVE GRADE AT RISER LOCATION
5: ALL UNDERGROUND PIPE, FITTINGS, & BACKFLOW (BY SITE FIRE PROTECTION CONTRACTOR)
6: SPRINKLER HEADS WILL NOT BE CENTERED IN CEILING TILES
7: A SEPERATE UNDERGROUND PERMIT WILL BE OBTAINED BY SITE CONTRACTOR IF REQUIRED
8: ALL HANGERS PER NFPA #13
9: ALL FIREWALL PENETRATIONS TO BE UL LISTED ASSEMBLIES

FLOW TEST
STATIC – 110
RESIDUAL – 105
FLOW – 1500
AT – C.R. 242
DATE – 11-18-08
TIME – N/A
BY– LAKE CITY

REVISIONS

#	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

SPRINKLER SYMBOLS

SYM	QUANT.	S.I.N.	TYPE	COLOR	TEMP	K	NPT	ORIFICE	MANUFACTURER	MODEL	ESCUTCHEON
⦿	14	R3615	PENDENT	WHITE	155	5.6	1/2"	1/2	RASCO	F1FR	RECESS
○	46	R3625	UPRIGHT	BRASS	200	5.6	1/2"	1/2	RASCO	F1FR	
●	181	R3615	PENDENT	WHITE	200	5.6	1/2"	1/2	RASCO	F1FR	RECESS
	241	TOTAL THIS SHEET									
	368	TOTAL THIS PROJECT									

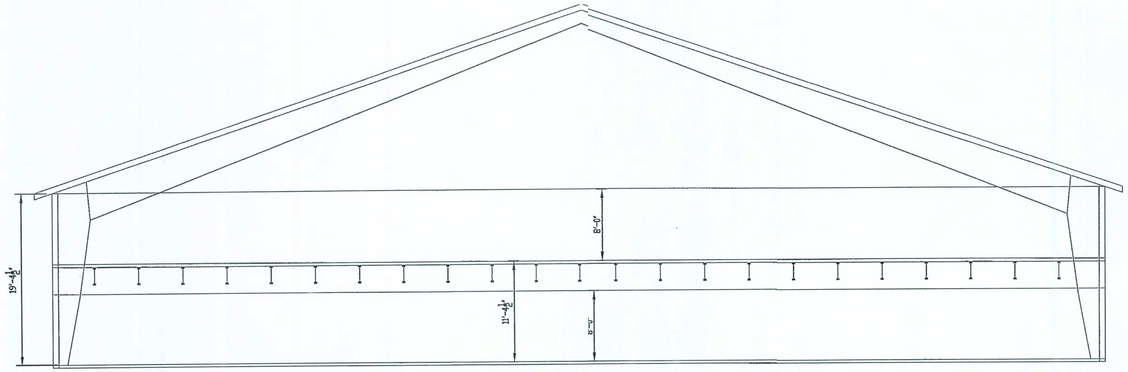
IMPERIAL

IMPERIAL FIRE PROTECTION, INC.
28651 NORTH DIESEL DRIVE #2
BONITA SPRINGS, FLORIDA 34135
(239)-948-0801

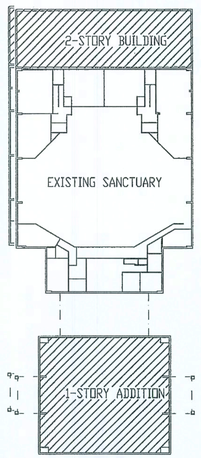
CHRIST CENTRAL MINISTRIES
217 SW DYAL AVENUE
LAKE CITY, FLORIDA 32024
CONTRACTOR: BRYAN ZECHER CONSTRUCTION

EXISTING SANCTUARY + LOWER MEZZINNIE FIRE PROTECTION

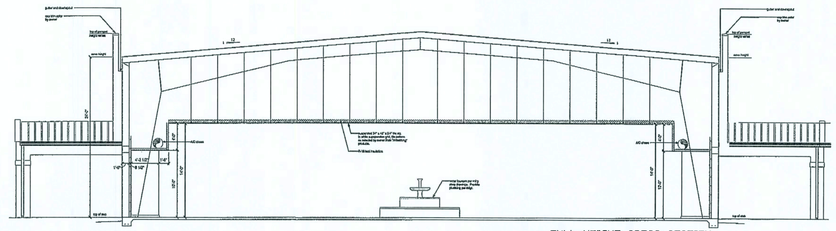
CONTRACT NO	2008-0356-D
APPROVAL	
DESIGNER	JEFF
SCALE	1/8" = 1'-0"
DATE	12-31-08
PLOTTED	FP 1 OF 2



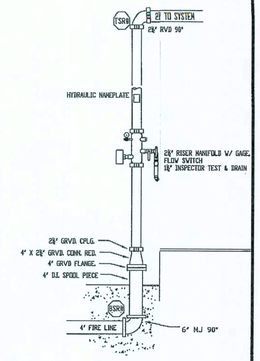
FULL HEIGHT CROSS SECTION
SCALE 1/8" = 1'-0"



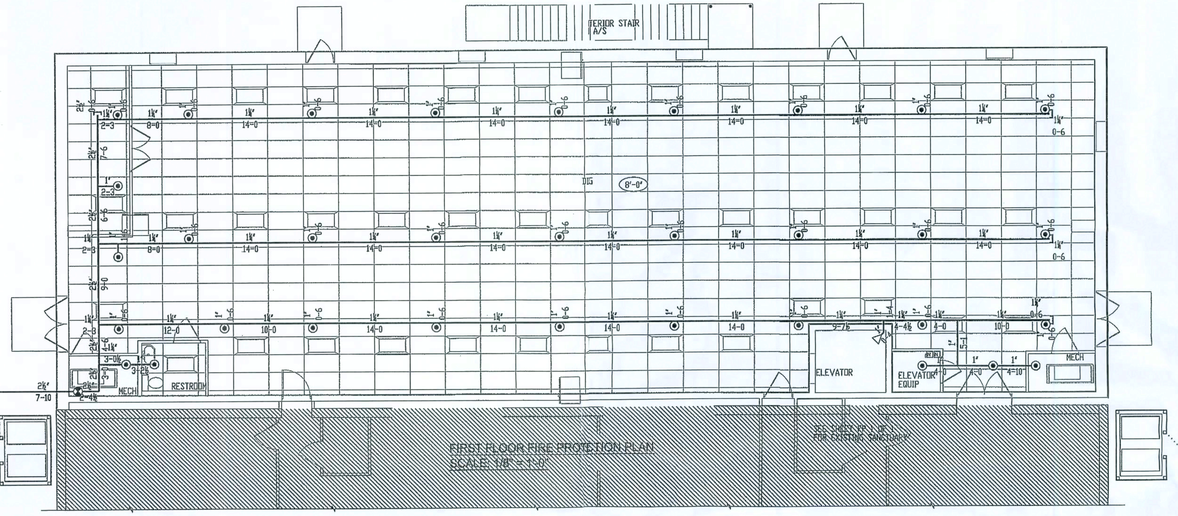
KEY PLAN
NO SCALE



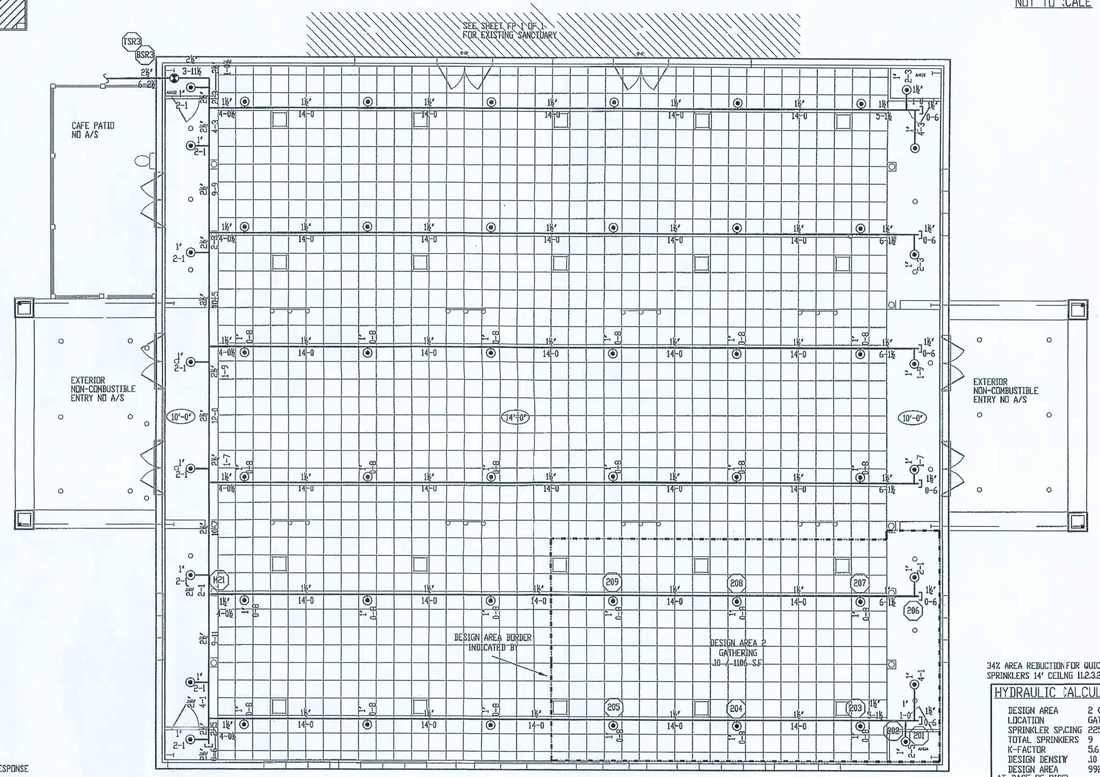
FULL HEIGHT CROSS SECTION
NO SCALE



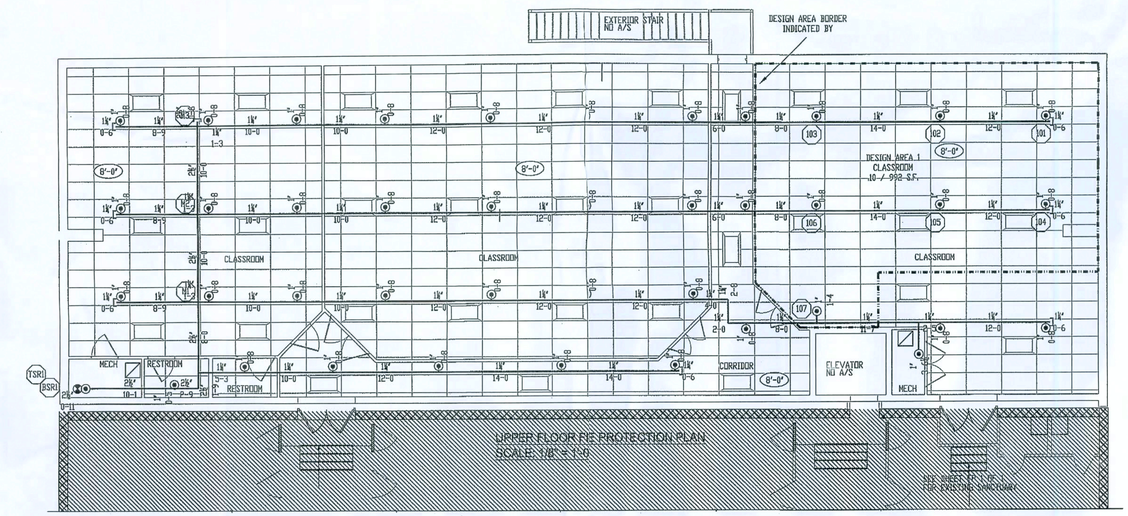
RISER DETAIL
NOT TO SCALE



FIRST FLOOR FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"



ONE STORY ADDITION FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"



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

SEE SHEET FP-1 OF 1 FOR EXISTING SANCTUARY

40% AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS 8' CEILING 11.2.3.2.3.1

HYDRAULIC CALCULATIONS

DESIGN AREA	1 (TWO STORY)	
LOCATION	CLASSROOM	
SPRINKLER SPACING	225	SQ FT
TOTAL SPRINKLERS	7	
K-FACTOR	5.6	
DESIGN DENSITY	.10	GPM
DESIGN AREA	992	SQ FT
AT BASE OF RISER		
DESIGN FLOW	170.31	GPM
DESIGN PRESSURE	58.810	PSI
OUTSIDE HOSE	100	GPM

34% AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS 14' CEILING 11.2.3.2.3.1

HYDRAULIC CALCULATIONS

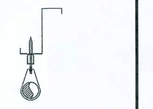
DESIGN AREA	2 (GATHERING)	
LOCATION	GATHERING AREA	
SPRINKLER SPACING	225	SQ FT
TOTAL SPRINKLERS	9	
K-FACTOR	5.6	
DESIGN DENSITY	.10	GPM
DESIGN AREA	992	SQ FT
AT BASE OF RISER		
DESIGN FLOW	222.34	GPM
DESIGN PRESSURE	72.799	PSI
OUTSIDE HOSE	100	GPM

GENERAL NOTES

1: ALL 1"- 2" PIPE WITH C.I. OR D.I. THREADED FITTINGS TO BE SCH-40
2: ALL 1½" - 6" PIPE WITH WELD OR GROOVED FITTINGS TO BE SCH-10
3: DESIGN, EQUIPMENT, & INSTALLATION PER NFPA #13 2002 EDITION
4: IMPERIAL FIRE PROTECTION, INC. P.O.C. 1'-0" ABOVE GRADE AT RISER LOCATION
5: ALL UNDERGROUND PIPE, FITTINGS, & BACKFLOW (BY SITE FIRE PROTECTION CONTRACTOR)
6: SPRINKLER HEADS WILL NOT BE CENTERED IN CEILING TILES
7: A SEPERATE UNDERGROUND PERMIT WILL BE OBTAINED BY SITE CONTRACTOR IF REQUIRED
8: ALL HANGERS PER NFPA #13
9: ALL FIREWALL PENETRATIONS TO BE UL LISTED ASSEMBLIES



TYPICAL HANGER
NO SCALE
1 --- All Thread Rod
1 --- Ring
1 --- Top Beam Clamp



TYPICAL HANGER
NO SCALE
1 --- 3/8" All Thread Rod
1 --- Hanger Ring
1 --- SAMMY SCREW TEK-D 1"-4" PIPE

FLOW TEST
STATIC - 110
RESIDUAL - 105
FLOW - 1500
AT - C.R. 242
DATE - 11-18-08
TIME - N/A
BY- LAKE CITY

REVISIONS		
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

SPRINKLER SYMBOLS

SYM	QUANT.	S.IN.	TYPE	COLOR	TEMP	K	NPT	ORIFICE	MANUFACTURER	MODEL	ESCUTCHEON
◉	74	R3615	PENDENT	WHITE	155	5.6	1/2"	1/2	RASCO	F1FR	RECESS
◁	1	R3635	HSW	WHITE	155	5.6	1/2"	1/2	RASCO	F1FR	
	75	TOTAL FOR 2-STORY ADD.									
◉	52	R3615	PENDENT	WHITE	155	5.6	1/2"	1/2	RASCO	F1FR	RECESS
	52	TOTAL FOR GATHERING.									
	127	TOTAL THIS SHEET									
	368	TOTAL THIS PROJECT									

IMPERIAL FIRE PROTECTION, INC.
28651 NORTH DIESEL DRIVE #2
BONITA SPRINGS, FLORIDA 34135
(239)-948-0801

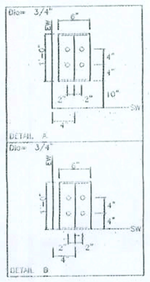
CHRIST CENTRAL MINISTRIES
217 SW DYAL AVENUE
LAKE CITY, FLORIDA 32024
CONTRACTOR: BRYAN ZECHER CONSTRUCTION

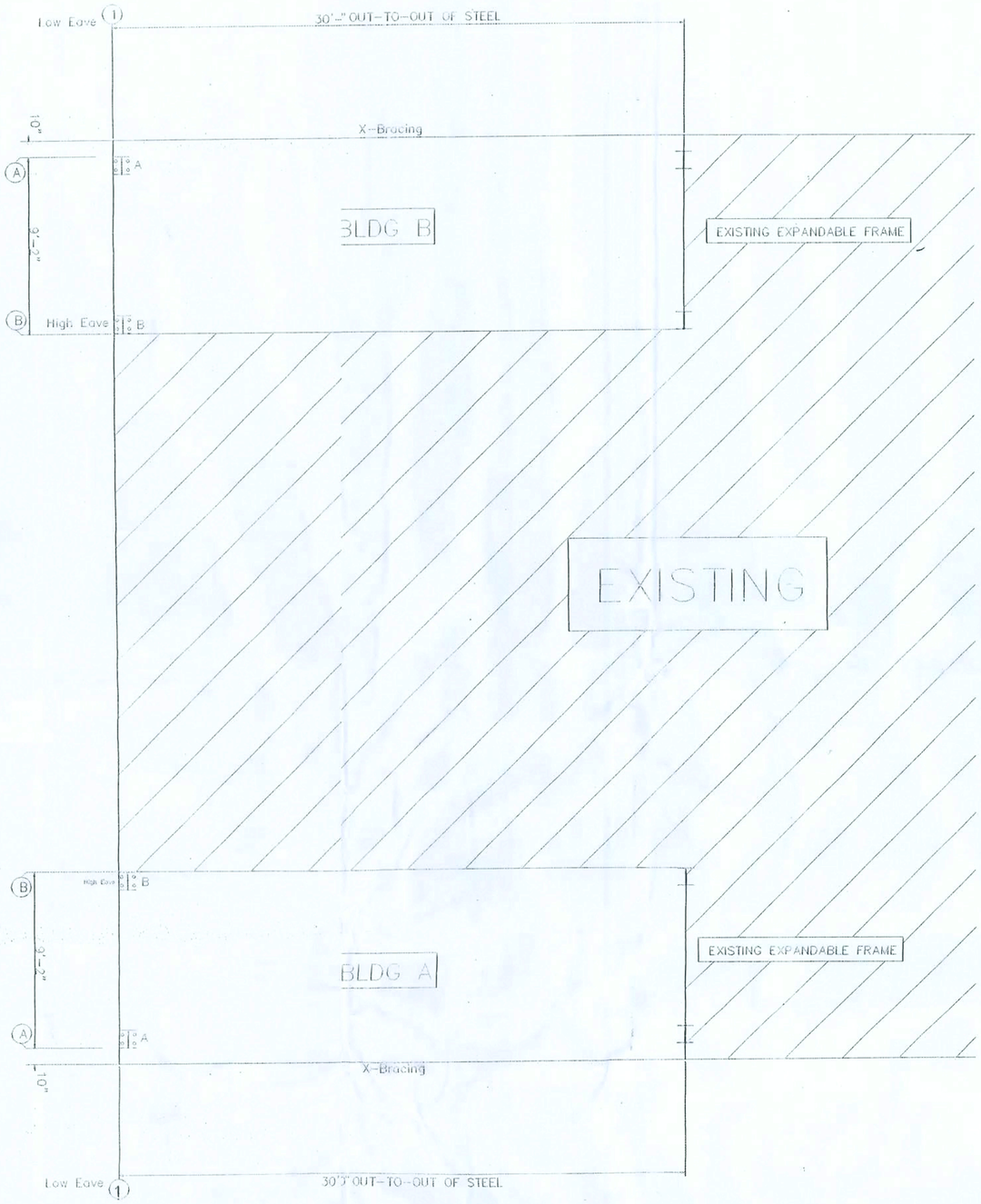
ONE-STORY + TWO-STORY ADDITION
FIRE PROTECTION

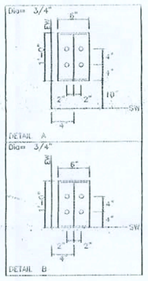
CONTRACT NO	2008-0356-D
APPROVAL	
DESIGNER	JEFF
SCALE	1/8" = 1'-0"
DATE	12-31-08
PLOTTED	FP 2 OF 2

NOTE: All Base Plates @ 100'-0" (U.N.)

ANCHOR BOLT PLAN







ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

HARRY V WHIDDON, P.E.
303 OLD QUITMAN HIGHWAY
ADEL, GA 31620
229-896-7569
PE 38968

1-23-09

ELITE STRUCTURES
DIVISION OF ELITE CONTRACTING INC.
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. DATE: 9-19-08
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

REVISION	
DAT	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FL 32024

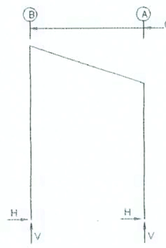
PLAN: ANCHOR BOLT PLAN

JOB # 6883-AB

SHEET 1 OF 9

BLDG A

FRAME LINES: 1



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Anc No	Bolt D(in)	Base Wid	Plate (in) Len	Thk	out in)
1	B	3	1.6	0.9	4	-2.6	-4.8	4	0.750	6.000	12.50	0.500	0.0
		1	0.8	2.5	6	-2.1	-6.2						
1	A	5	1.9	-3.8	2	-3.1	2.5	4	0.750	6.000	12.50	0.500	0.0
		6	-3.0	4.6	3	1.3	-4.4						

ANCHOR BOLT SUMMARY

Qnt	Loc	Dia (in)	Total Len (in)	Bend Len (in)	Proj (in)
0 8	RF	3/4"	24.00	3.00	2.50

BRACING REACTIONS, PANEL SHEAR

Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1	Rigid Frame At Endwall					
F_SW	A	1 2	1.6	0.5	0.1	0.0	
R_EW	2	Bracing Not Used					0
B_SW	B	Torsional Bracing Used					

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_L1 Horiz	Wind_L1 Vert	Wind_R1 Horiz	Wind_R1 Vert	Wind_L2 Horiz	Wind_L2 Vert
1	B	0.01	0.55	0.00	0.07	0.04	1.33	-2.05	-5.59	1.56	0.50	-2.65	-5.08
1	A	-0.01	0.64	0.00	0.12	-0.04	2.31	-3.07	2.09	1.26	-4.81	-2.47	2.73

Frame Line	Column Line	Wind_R2 Horiz	Wind_R2 Vert	Wind_Ln1 Horiz	Wind_Ln1 Vert	Wind_Ln2 Horiz	Wind_Ln2 Vert	Seismic_L Horiz	Seismic_L Vert	Seismic_R Horiz	Seismic_R Vert	SeisLn Horiz	SeisLn Vert
1	B	0.95	1.12	-2.15	-6.48	1.48	1.45	-0.02	-0.09	0.02	0.09	-0.01	-0.05
1	A	1.86	-4.17	-3.02	3.16	1.39	-3.74	-0.04	0.09	0.04	-0.09	-0.02	0.00

NOTES FOR REACTIONS

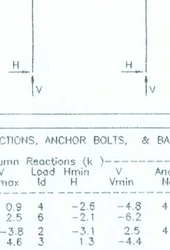
Building reactions are based on the following building data:

Width (ft)	=	10.0
Length (ft)	=	30.0
Eave Height (ft)	=	15.3/ 12.0
Roof Slope (rise/12)	=	4.0
Dead Load (psf)	=	2.5
Collateral Load (psf)	=	1.0
Live Load (psf)	=	20.0
Wind Speed (mph)	=	110.0
Wind Code	=	FBC 04
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.15
Importance Seismic	=	1.00
Seismic Design Category	=	B
Seismic Coeff (Fa*Ss)	=	0.20

Id	Description
1	DL+CL+0.75LL+0.75WR2
2	0.60DL+WL1
3	0.60DL+WR1
4	0.60DL+WL2
5	0.60DL+WR2
6	0.60DL-LnWnd1

BLDG B

FRAME LINES: 1



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Anc No	Bolt D(in)	Base Wid	Plate (in) Len	Thk	out n)
1	B	3	1.6	0.9	4	-2.6	-4.8	4	0.750	6.000	12.50	0.500	0.0
		1	0.8	2.5	6	-2.1	-6.2						
1	A	5	1.9	-3.8	2	-3.1	2.5	4	0.750	6.000	12.50	0.500	0.0
		6	-3.0	4.6	3	1.3	-4.4						

ANCHOR BOLT SUMMARY

Qnt	Loc	Dia (in)	Total Len (in)	Bend Len (in)	Proj (in)
0 8	RF	3/4"	24.00	3.00	2.50

BRACING REACTIONS, PANEL SHEAR

Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1	Rigid Frame At Endwall					
F_SW	A	1 2	1.6	0.5	0.1	0.0	
R_EW	2	Bracing Not Used					0
B_SW	B	Torsional Bracing Used					

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_L1 Horiz	Wind_L1 Vert	Wind_R1 Horiz	Wind_R1 Vert	Wind_L2 Horiz	Wind_L2 Vert
1	B	0.01	0.55	0.00	0.07	0.04	1.33	-2.05	-5.59	1.56	0.50	-2.65	-5.08
1	A	-0.01	0.64	0.00	0.12	-0.04	2.31	-3.07	2.09	1.26	-4.81	-2.47	2.73

Frame Line	Column Line	Wind_R2 Horiz	Wind_R2 Vert	Wind_Ln1 Horiz	Wind_Ln1 Vert	Wind_Ln2 Horiz	Wind_Ln2 Vert	Seismic_L Horiz	Seismic_L Vert	Seismic_R Horiz	Seismic_R Vert	SeisLn Horiz	SeisLn Vert
1	B	0.95	1.12	-2.15	-6.48	1.48	1.45	-0.02	-0.09	0.02	0.09	-0.01	-0.05
1	A	1.86	-4.17	-3.02	3.16	1.39	-3.74	-0.04	0.09	0.04	-0.09	-0.02	0.00

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	10.0
Length (ft)	=	30.0
Eave Height (ft)	=	15.3/ 12.0
Roof Slope (rise/12)	=	4.0
Dead Load (psf)	=	2.5
Collateral Load (psf)	=	1.0
Live Load (psf)	=	20.0
Wind Speed (mph)	=	110.0
Wind Code	=	FBC 04
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.15
Importance Seismic	=	1.00
Seismic Design Category	=	B
Seismic Coeff (Fa*Ss)	=	0.20

Id	Description
1	DL+CL+0.75LL+0.75WR2
2	0.60DL+WL1
3	0.60DL+WR1
4	0.60DL+WL2
5	0.60DL+WR2
6	0.60DL-LnWnd1

DESIGN CRITERIA

BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

HARRY V WHIDDON, P.E.
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PE 38968

1-23-09

ELITE STRUCTURES
A DIVISION OF ELITE CONTRACTING INC.
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FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. DATE: 1-23-09
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

REVISION

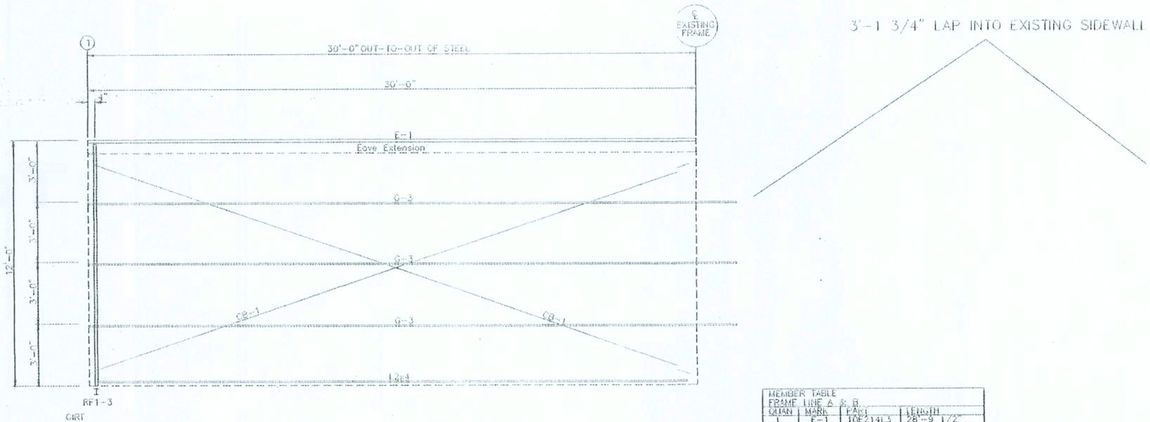
DATE:	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FL 32024

PLAN: COLUMN REACTIONS

JOB # 6883-CR

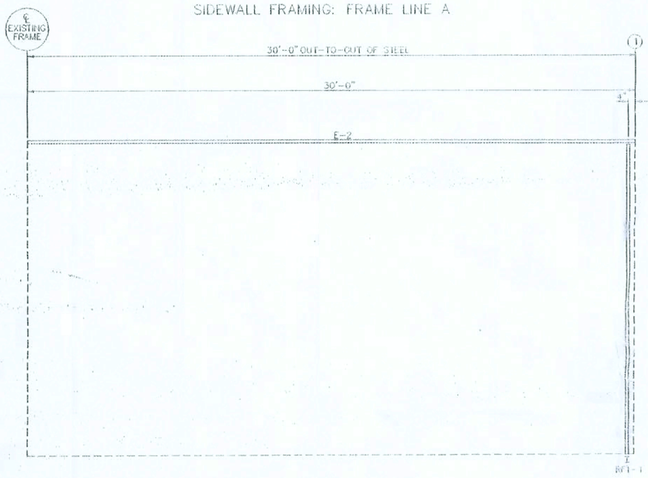
BLDG A



3'-1 3/4" LAP INTO EXISTING SIDEWALL

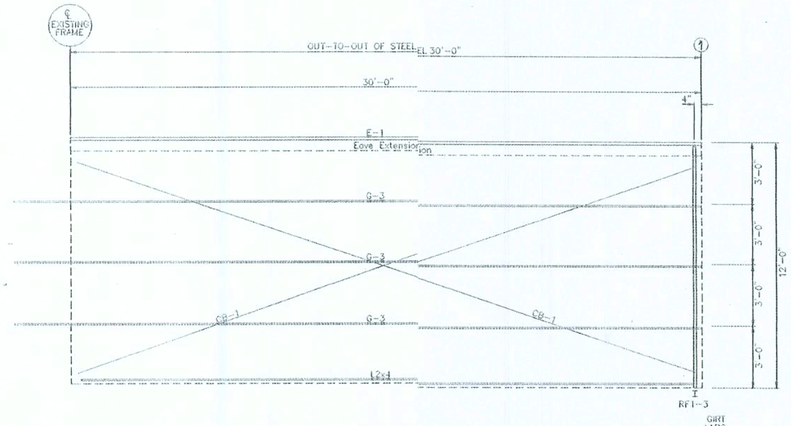
MEMBER TABLE FRAME LINE A & B			
QUAN	MARK	PART	LENGTH
1	E-1	10E214L3	28'-9 1/2"
1	E-2	10E212H3	29'-11 1/2"
3	G-3	10X35Z12	33'-1 1/2"
2	CB-1	1/4 CBL	32'-2"

SIDEWALL FRAMING: FRAME LINE A



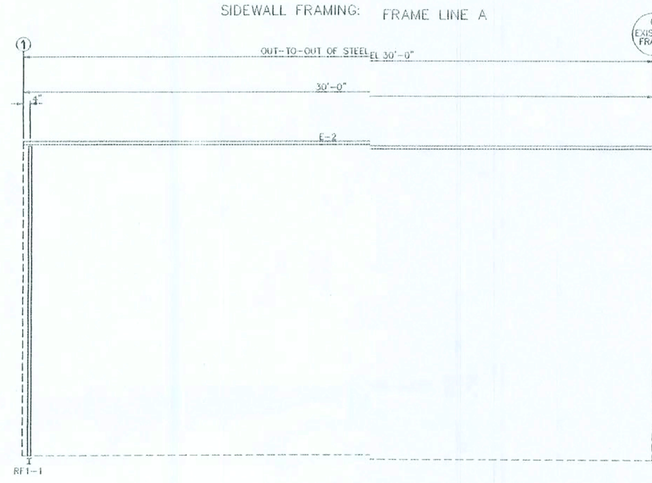
SIDEWALL FRAMING: FRAME LINE B

BLDG B



MEMBER TABLE FRAME LINE A & B			
QUAN	MARK	PART	LENGTH
1	E-1	10E214L3	29'-2 1/2"
1	E-2	10E212H3	29'-11 1/2"
3	G-3	10X35Z12	33'-1 1/2"
2	CB-1	1/4 CBL	32'-2"

SIDEWALL FRAMING: FRAME LINE A



SIDEWALL FRAMING: FRAME LINE B

COMON WALLS ON BOTH BLDGS ARE OPEN TO ROOF

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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ADEL , GA 31620

SCALE: N.T.S. | DATE: 9-19-08
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

REVISION

DA:	DESCRIPTION

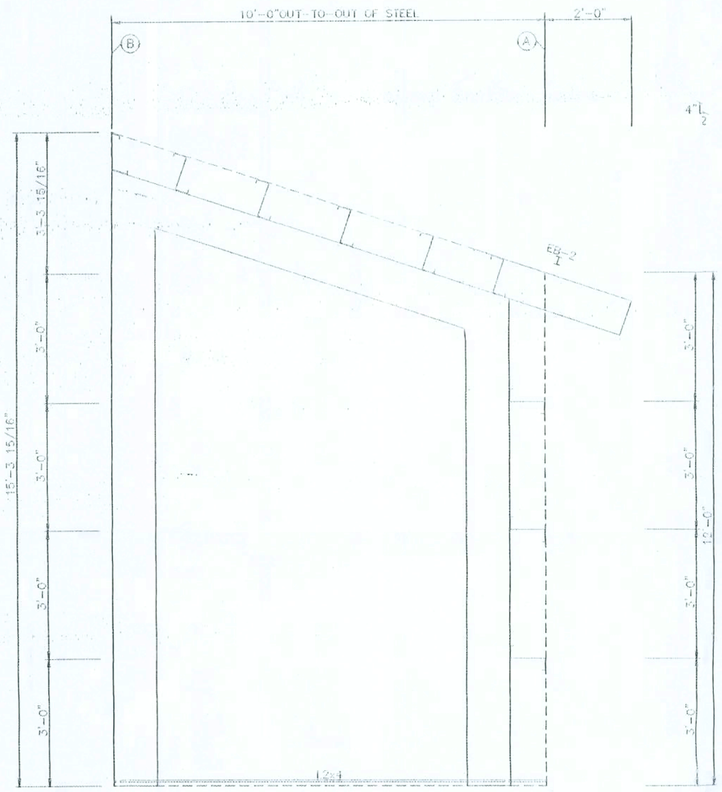
TITLE/LOCATION: CHRIST CENTRAL MINISTRIES LAKE CITY, FL 32024

PLAN: SIDEWALL FFRAMING

JOB # 6883-SF

SHEET 3 OF 9

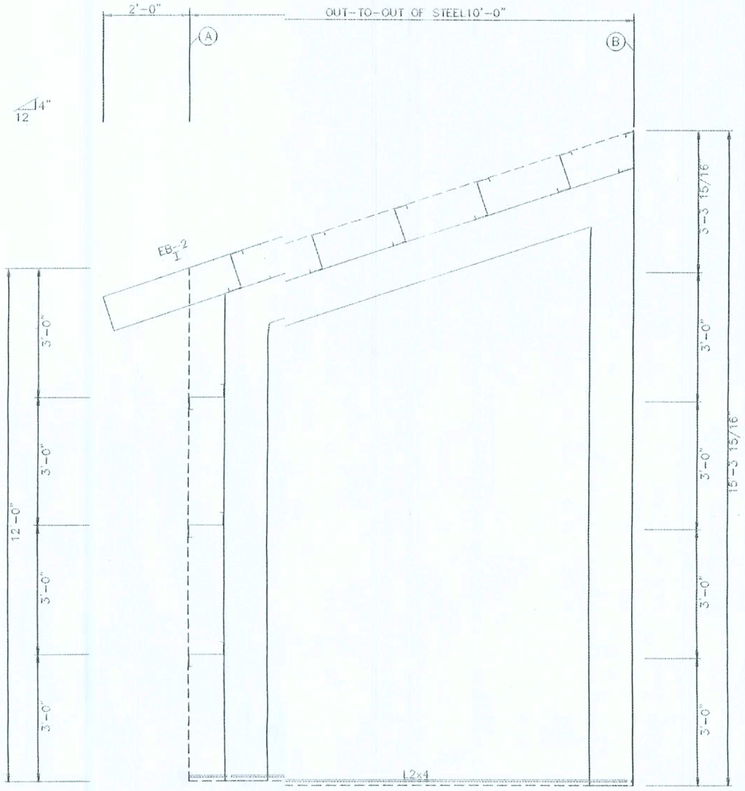
MEMBER TABLE FRAME LINE 1 & 2		
MARK	PART	LENGTH
EB-2	W8X10	2'-9 13/16"
EB-3	W8X10	3'-2 3/16"
G-1	10X25Z14	7'-0"
G-2	10X25Z14	3'-0 3/8"



ENDWALL FRAMING: FRAME LINE 1

BLDG A

MEMBER TABLE FRAME LINE 1 & 2		
LENGTH	PART	MARK
2'-9 13/16"	W8X10	EB-2
3'-2 3/16"	W8X10	EB-3
7'-0"	10X25Z14	G-1
3'-0 3/8"	10X25Z14	G-2



ENDWALL FRAMING: FRAME LINE 1

BLDG B

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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ADEL, GA 31620

SCALE: N.T.S. DATE: 9-19-08
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

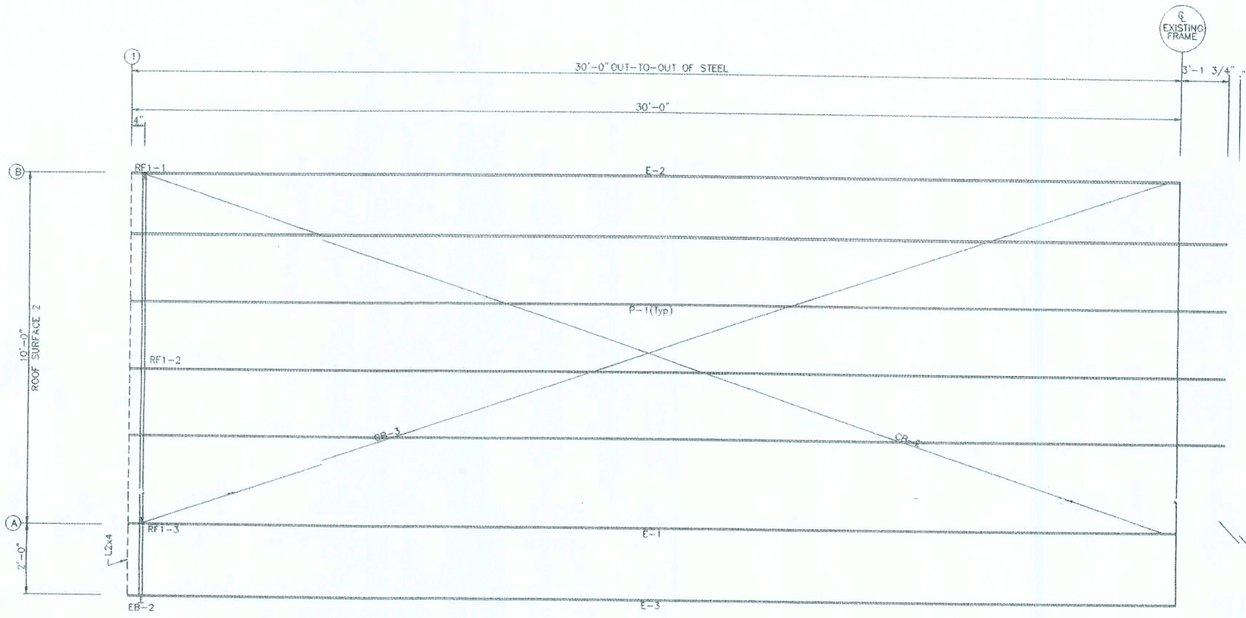
REVISION
DATE: DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FL 32024

PLAN: ENDWALL FRAMING

JOB # 6883-EF

SHEET 4 OF 9

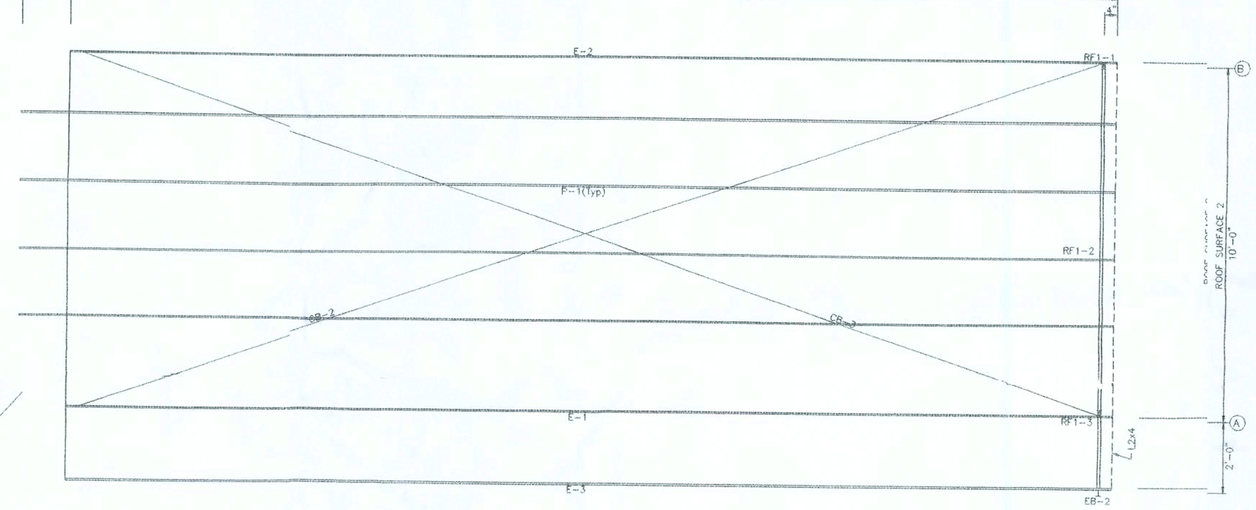


EXTENSION/CANOPY BOLTS ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-2	4	A325	1/2"	1 1/2"

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
EB-2	W8X10	2'-9 13/16"
P-1	10X35Z12	33'-1 1/2"
E-1	10E214L3	29'-5 1/2"
E-2	10E212H3	29'-11 1/2"
E-3	10E214L3	29'-5 1/2"
CB-2	1/4_CBL	31'-6"
CB-3	1/4_CBL	31'-3"

LAPPING INTO EXISTING BLDG

ROOF FRAMING PLAN



EXTENSION/CANOPY BOLTS ROOF PLAN				
LENGTH	DIA	TYPE	QUAN	MARK
1 1/2"	1/2"	A325	4	EB-2

MEMBER TABLE ROOF PLAN		
LENGTH	PART	MARK
2'-9 13/16"	W8X10	EB-2
33'-1 1/2"	10X35Z12	P-1
29'-5 1/2"	10E214L3	E-1
29'-11 1/2"	10E212H3	E-2
29'-5 1/2"	10E214L3	E-3
31'-6"	1/4_CBL	CB-2
31'-3"	1/4_CBL	CB-3

LAPPING INTO EXISTING BLDG

ROOF FRAMING PLAN

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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1-23-09

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FAX 229-896-7560
P.O. BOX 207
ADEL, GA 31620

SCALE: N.T.S. DATE: 9-19-08
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

REVISION		
ITE:	DESCRIPTION	

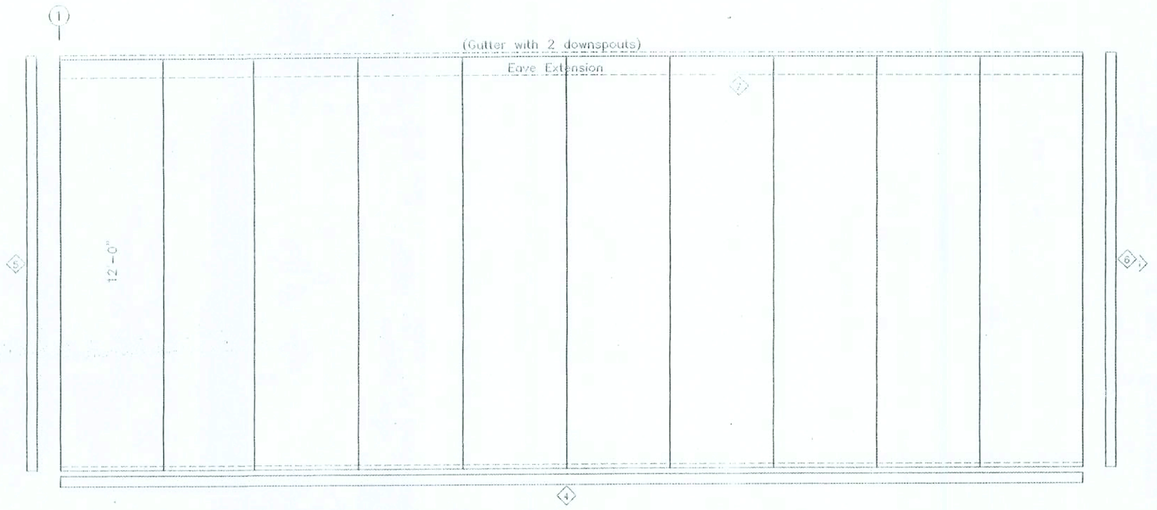
TITLE/LOCATION
CHRIST CENTRAL MINISTRIES
LAKE CITY, FL 32024

PLAN:
ROOF FRAMING

JOB # 6883-RF

SHEET 5 OF 9

BLDG A

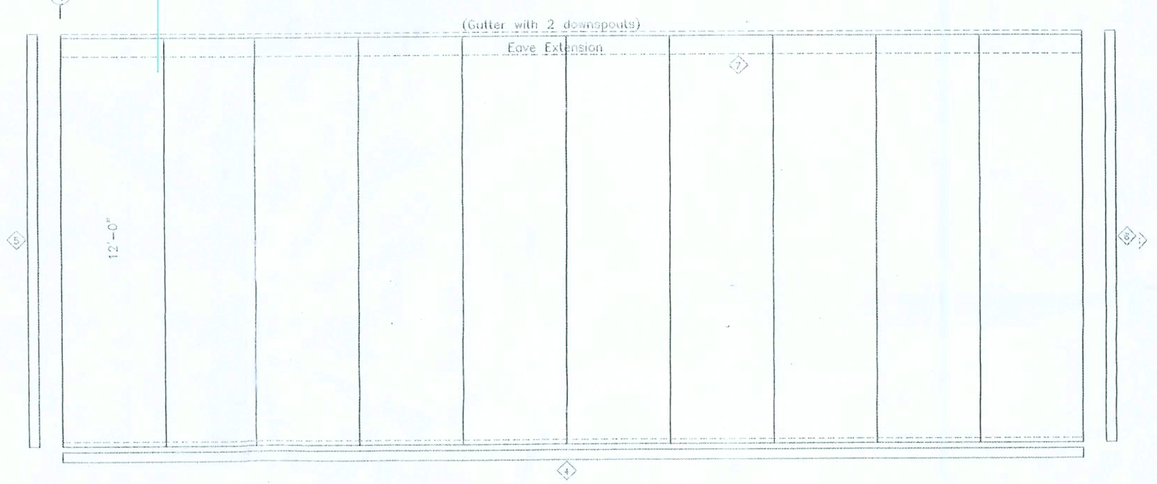


TRIM TABLE FRAME LINE A & B		
ID	QUAN	PART
1	1	FL-24
2	2	FL-17A
3	2	FL-16E
4	2	FL-530
5	1	FL-835
6	1	FL-24
7	2	FL-24

SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR - Galvalume

BLDG B



TRIM TABLE FRAME LINE A & B		
ID	QUAN	PART
1	1	FL-24
2	2	FL-17A
3	2	FL-16E
4	2	FL-530
5	1	FL-835
6	1	FL-24
7	2	FL-24

SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR - Galvalume

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

HARRY V WHIDDON, P.E.
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1-23-09

LITE STRUCTURES
DIVISION OF LITE CONTRACTING INC.
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL, GA 31620

SCALE: N.T.S. DATE: 9-19-08
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

REVISION	
DA:	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FL 32024

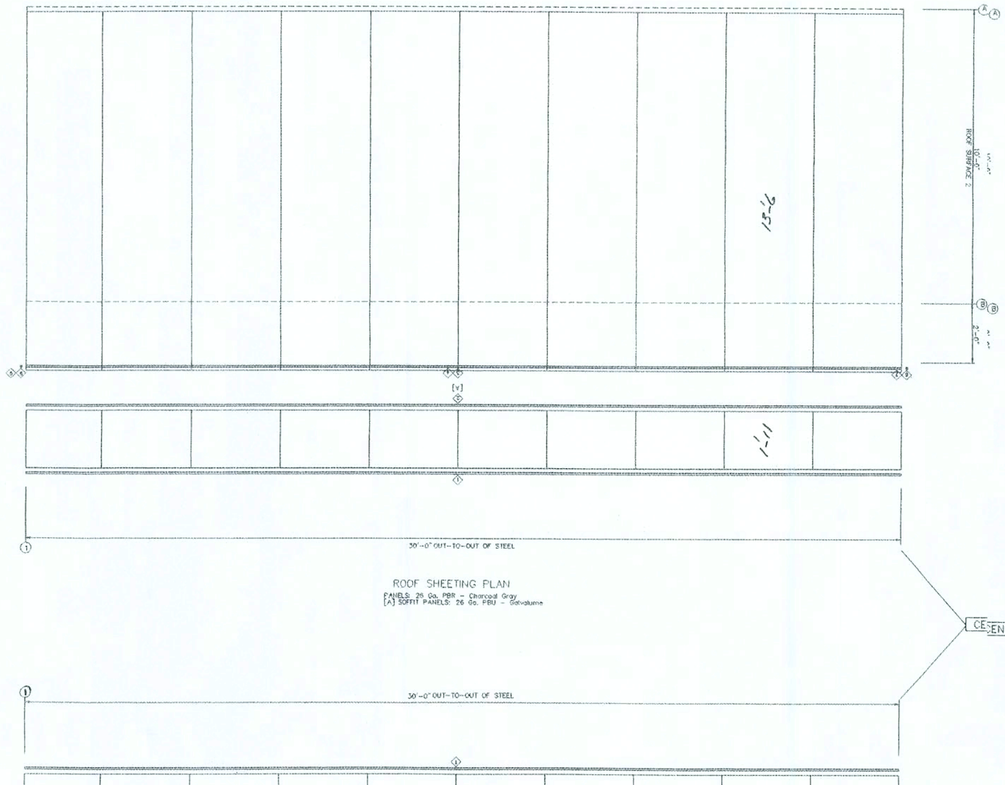
PLAN: WALL SHEETING

JOB # 6883-WS

SHEET 6 OF 9

BLDG A

TRIM TABLE ROOF PLAN	
◇ID	PART
1	FL-270
2	FL-24
3	FL-74A
4	FL272
5	FL-14AL
6	FL-18A
7	FL-14AR



BLDG B

TRIM TABLE ROOF PLAN	
◇ID	PART
1	FL-270
2	FL-24
3	FL-74A
4	FL272
5	FL-14AL
6	FL-18A
7	FL-14AR

[A] SOFFIT PANELS: 26 Ga. PBU - Galvalume
PANELS: 26 Ga. PBR - Charcoal Gray
ROOF SHEETING PLAN

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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1-23-09

ELITE STRUCTURES
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FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. DATE: 9-19-08
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

REVISION	
DAT	DESCRIPTION

TITLE/LOCATION
CHRIST CENTRAL MINISTRIES
LAKE CITY, FL 32024

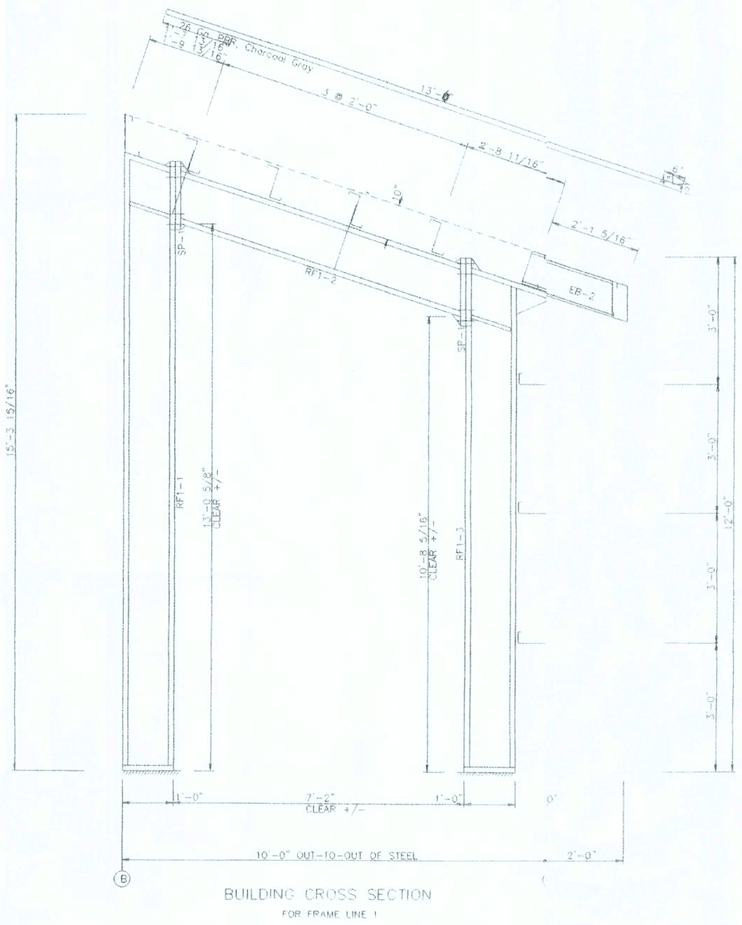
PLAN:
ROOF SHEEETING

JOB # 6883-RS

SHEET 7 OF 9

SPLICE BOLTS						
Splice Mark	Quan Top/Bot/Int	Type	Dia	Len		
SP-1	4 4 0	A325	0.750	3.00		

MEMBER SIZE TABLE(in)						
PIECE	WEB DEPTH START/END	WEB PLATE THICK	WEB PLATE LENGTH	OUTSIDE FLANGE W x T x LEN	INSIDE FLANGE W x T x LEN
RF1-1	11 3/11 3	0.134	53.4	6x3/8" x172.4	6x3/8" x171.7
	11 3/11 3	0.134	119.0	6x3/8" x 12.1	
RF1-2	11 3/11 3	0.134	93.6	6x3/8" x 89.7	6x3/8" x 89.7
RF1-3	11 3/11 3	0.134	119.0	6x3/8" x 22.7	6x3/8" x143.0
	11 3/11 3	0.134	20.8	6x3/8" x135.9	



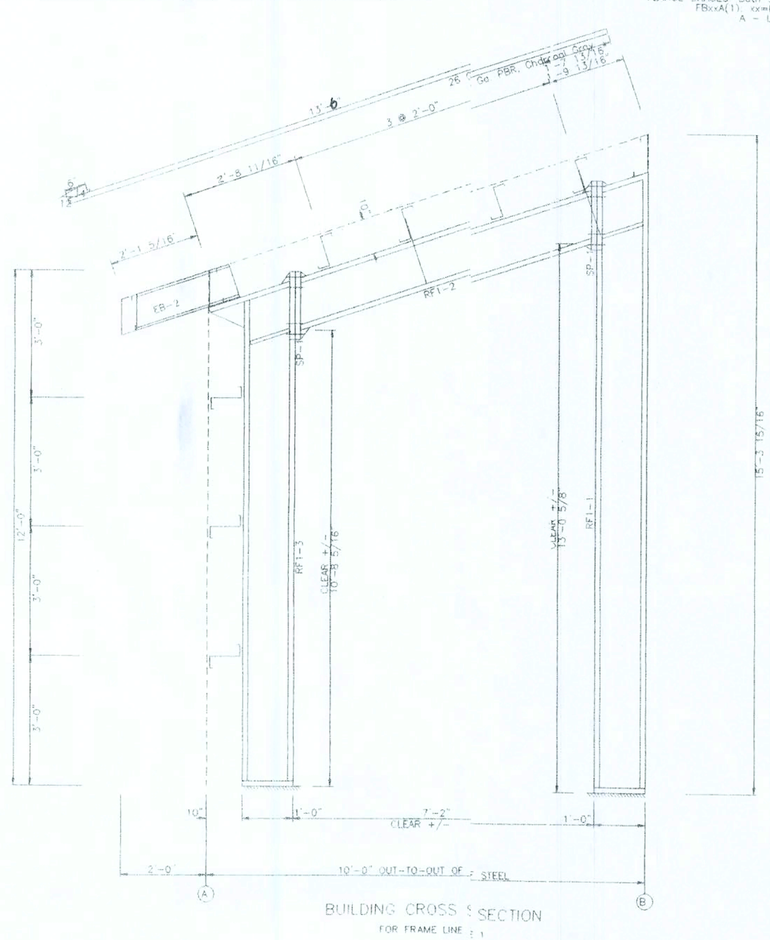
BUILDING CROSS SECTION
FOR FRAME LINE 1

BLDG A

MEMBER SIZE TABLE (in)					
INSIDE FLANGE W x T x LEN	OUTSIDE FLANGE W x T x LEN	WEB PLATE LENGTH	WEB PLATE THKK	WEB DEPTH START/END	PIECE
6x3/8" x171.7	6x3/8" x172.4	53.4	0.134	11 3/11 3	RF1-1
	6x3/8" x 12.1	119.0	0.134	11 3/11 3	
6x3/8" x 89.7	6x3/8" x 89.7	93.6	0.134	11 3/11 3	RF1-2
6x3/8" x143.0	6x3/8" x 22.7	119.0	0.134	11 3/11 3	RF1-3
	6x3/8" x135.9	20.8	0.134	11 3/11 3	

SPLICE BOLTS					
Bolt- Top/Bot/Int	Type	Dia	Len	Quan	Splice Mark
4 4 0	A325	0.750	3.00		SP-1

FLANGE BRACES Both Sides(U.N.)
FBxxA(1) xxmlength(in)
A - L2X2X140



BUILDING CROSS SECTION
FOR FRAME LINE 1

BLDG B

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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ADEL , GA 31620

SCALE: N.T.S.	DATE: 9-19-08
DRAWN BY: T. GIBBS	
BUILDING SIZE: (2) 10'x30'x12'	

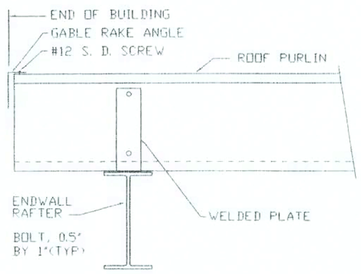
REVISION	
DE	DESCRIPTION

TITLE/LOCATION
CHRIST CENTRAL MINISTRIES
LAKE CITY, FL 32024

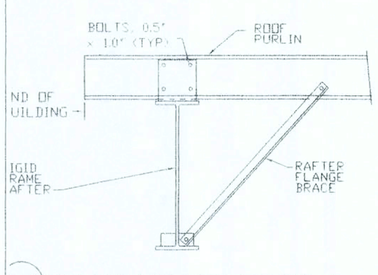
PLAN:
CROSS SECTION

JOB # 6883-XS

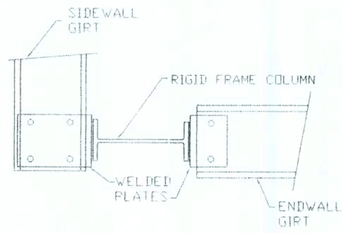
SHEET 8 OF 9



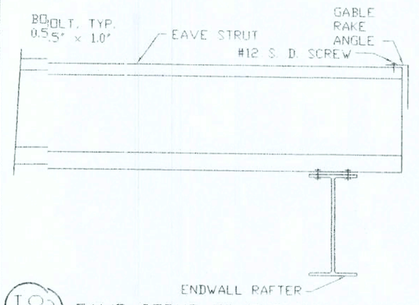
A7 SECTION THRU ENDWALL RAFTER



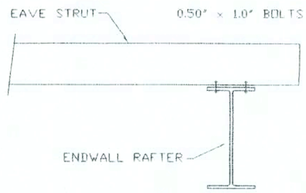
A10 ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME



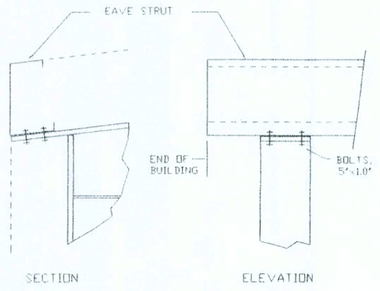
D15 CORNER COLUMN TO WALL GIRT



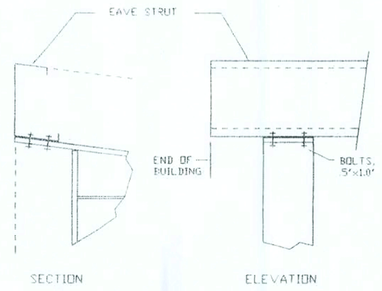
I83 EAVE STRUT TO ENDWALL RAFTER



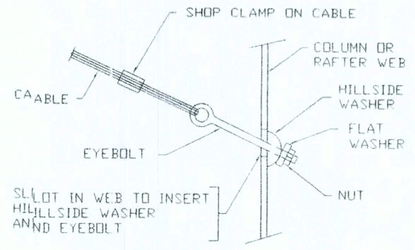
I17 EAVE STRUT TO ENDWALL RAFTER



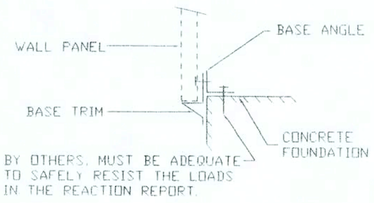
I24 EAVE STRUT TO RIGID FRAME



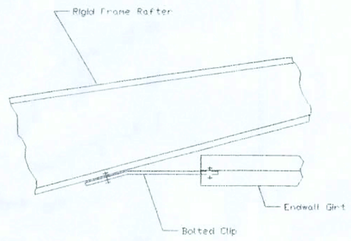
J26 EAVE STRUT TO RIGID FRAME



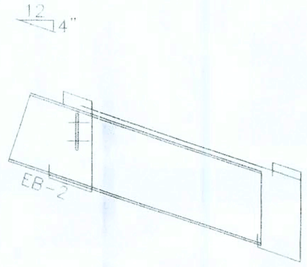
Q2 DIAGONAL CABLE, EYEBOLT END



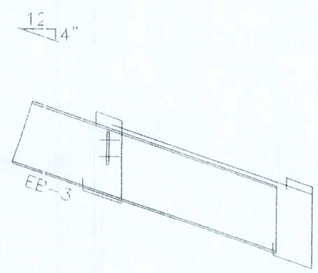
T1 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



W4 SECTION OF ENDWALL GIRT TO RAFTER



X2



X33

DESIGN CRITERIA		
BUILDING CODE:	FBC	
LIVE LOAD TO FRAMES:	20	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	0	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

HARRY V WHIDDON, P.E.
303 OLD QUITMAN HIGHWAY
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PE 38968

1-23-09

ELITE STRUCTURES
DIVISION OF ELITE CONTRACTING INC.
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. DATE: 9-19-08
DRAWN BY: T. GIBBS
BUILDING SIZE: (2) 10'x30'x12'

REVISION

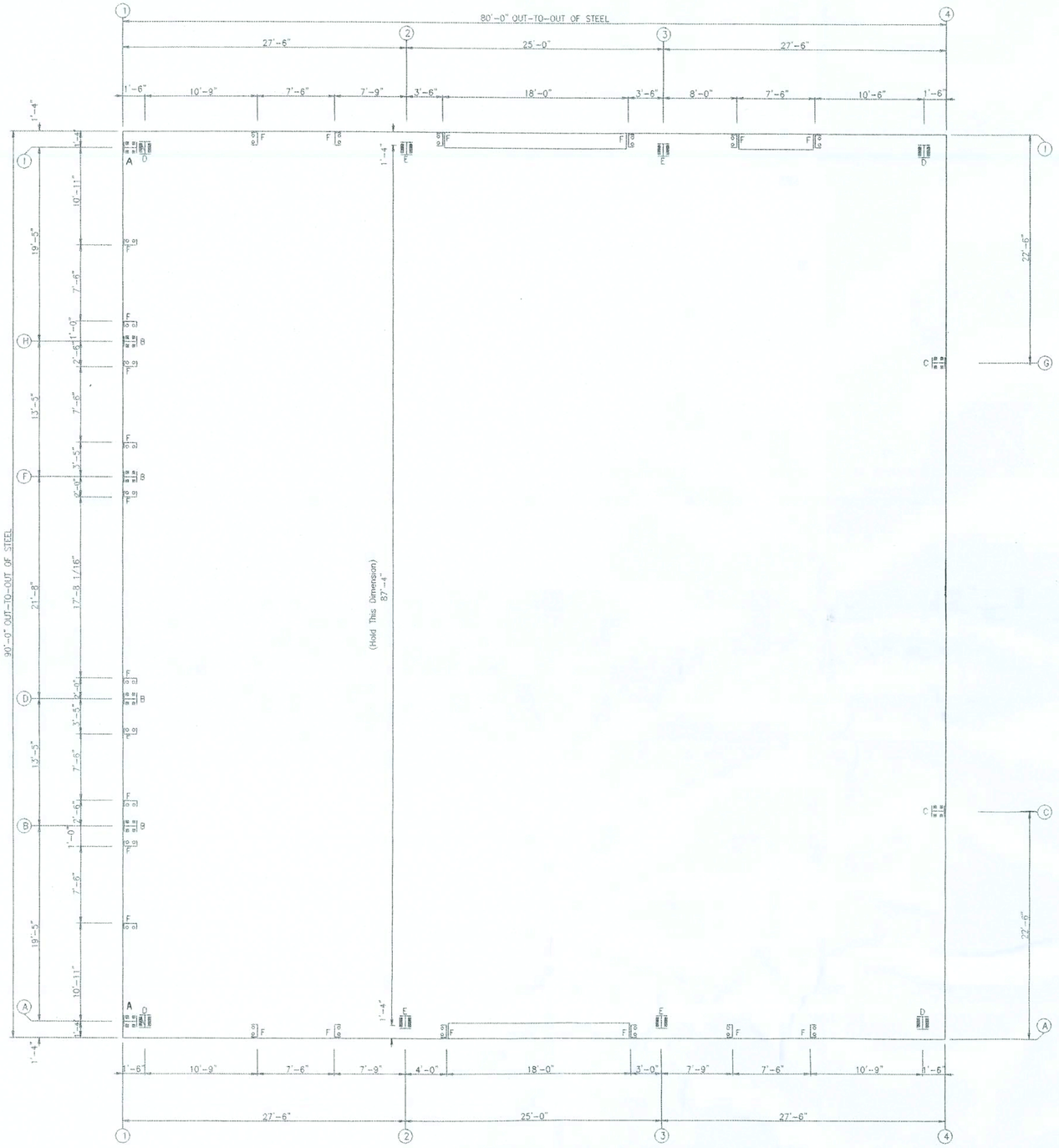
DA:	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES LAKE CITY, FL 32024

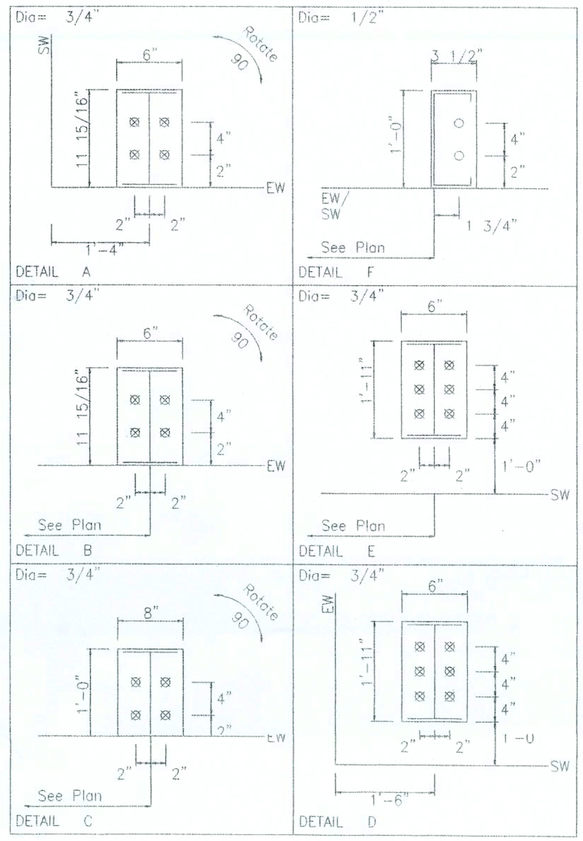
PLAN: DETAILS

JOB # 6883-DE

SHEET 9 OF 9



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)



DESIGN CRITERIA

BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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8-15-08

ELITE STRUCTURES
A DIVISION OF ELITE CONTRACTING INC.
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S.	DATE: 7-29-08
DRAWN BY: T. GIBBS	
BUILDING SIZE: 90'x80'x24'	

REVISION

DATE:	DESCRIPTION

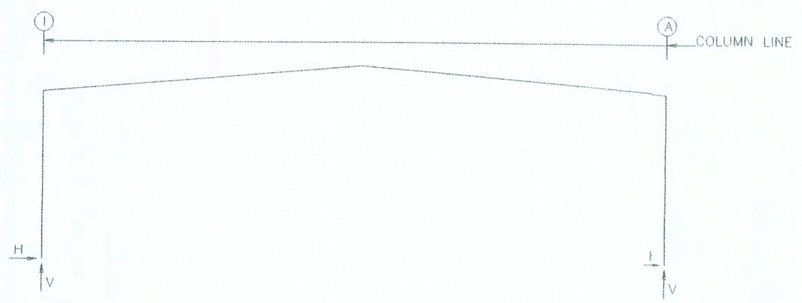
TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FLORIDA

PLAN: ANCHOR BOLT PLAN

JOB # 6364-AB

SHEET 1 OF 10

FRAME LINES: 1 2 3 4



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Anc. No	Bolt D(in)	Base Wid	Plate Ler	Plate Thk	Grout (in)
1 *	I	1	16.4	25.9	2	-21.8	-23.1	6	0.750	6.000	23.0	0.500	0.0
		1	16.4	26.0	4	-6.7	-29.8						
1 *	A	3	21.8	-23.1	1	-16.4	26.0	6	0.750	6.000	23.0	0.500	0.0
		1	-16.4	26.0	5	6.7	-29.8						

1 * Frame lines: 1 2 3 4

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	= 90.0
Length (ft)	= 80.0
Eave Height (ft)	= 24.0/ 24.0
Roof Slope (rise/12)	= 1.0/ 1.0
Dead Load (psf)	= 3.0
Collateral Load (psf)	= 1.0
Roof Live Load (psf)	= 20.0
Frame Live Load (psf)	= 12.0
Wind Speed (mph)	= 110.0
Wind Code	= FBC 04
Exposure	= B
Closed/Open	= C
Importance Wind	= 1.15
Importance Seismic	= 1.00
Seismic Design Category	= B
Seismic Coeff (Fa*Ss)	= 0.20

Id	Description
1	DL+CL+LL
2	0.60DL+WL1
3	0.60DL+WR1
4	0.60DL+LnWnd1
5	0.60DL+LnWnd2
6	DL+CL+0.75LL-1.05SeisL
7	0.60DL+WR2+WS
8	0.60DL+WP+LnWnd1
9	DL+CL+0.75LL+0.75WR2+0.75WS

BRACING REACTIONS, PANEL SHEAR

Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1		Rigid Frame At Endwall				
F_SW	A		Wind Bent In Wall				
R_EW	4		Rigid Frame At Endwall				
B_SW	I		Wind Bent In Wall				

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_L1 Horiz	Wind_L1 Vert	Wind_R1 Horiz	Wind_R1 Vert	Wind_L2 Horiz	Wind_L2 Vert
1 *	I	3.86	7.35	0.97	1.43	11.58	17.23	-24.08	-27.50	-3.53	-15.77	-19.60	-16.81
1 *	A	-3.86	7.33	-0.97	1.43	-11.58	17.18	3.53	-15.77	24.08	-27.50	-0.95	-5.00

Frame Line	Column Line	Wind_R2 Horiz	Wind_R2 Vert	Wind_Ln1 Horiz	Wind_Ln1 Vert	Wind_Ln2 Horiz	Wind_Ln2 Vert	Seismic_L Horiz	Seismic_L Vert	Seismic_R Horiz	Seismic_R Vert	SeisLn Horiz	SeisLn Vert
1 *	I	0.95	-5.00	-9.07	-34.23	-9.86	-29.67	-0.52	-0.25	0.52	0.25	0.00	-1.35
1 *	A	19.60	-16.81	9.86	-29.67	9.07	-34.23	-0.52	0.25	0.52	-0.25	0.00	-1.35

1 * Frame lines: 1 2 3 4

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind_P Horz	Wind_S Horz
1	I	0.32	0.00	0.00
1	H	0.35	-3.72	4.10
1	F	0.41	-4.15	4.55
1	D	0.41	-4.15	4.55
1	B	0.35	-3.72	4.10
1	A	0.32	0.00	0.00
4	C	0.75	-5.06	5.53
.	.			
4	G	0.75	-5.06	5.53

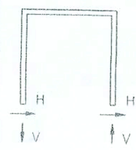
ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Anc. No	Bolt D(in)	Base Wid	Plate Len	Plate Thk	Grout (in)
1	I	6	0.0	0.3				4	0.750	6.000	11.91	0.375	0.0
1	H	7	4.1	0.2	8	-3.7	0.2	4	0.750	6.000	11.91	0.375	0.0
		6	0.0	0.3									
1	F	7	4.6	0.2	8	-4.2	0.2	4	0.750	6.000	11.91	0.375	0.0
		6	0.0	0.4									
1	D	7	4.6	0.2	8	-4.1	0.2	4	0.750	6.000	11.91	0.375	0.0
		6	0.0	0.4									
1	B	7	4.1	0.2	8	-3.7	0.2	4	0.750	6.000	11.91	0.375	0.0
		6	0.0	0.3									
1	A	6	0.0	0.3				4	0.750	6.000	11.91	0.375	0.0
4	C	7	5.5	0.4	8	-5.1	0.4	4	0.750	8.000	12.34	0.375	0.0
		9	4.1	0.7									
4	E	7	6.1	0.6	8	-5.6	0.6	4	0.750	10.00	11.94	0.375	0.0
		9	4.6	1.1									
4	G	7	5.5	0.4	8	-5.1	0.4	4	0.750	8.000	12.34	0.375	0.0
		9	4.1	0.7									

ANCHOR BOLT SUMMARY

Qnt	Loc	Dia (in)	Total Len (in)	Bend Len (in)	Proj (in)
O 44	DJ	1/2"	12.00	3.00	1.50
⊠ 36	EW	3/4"	15.00	3.00	2.50
⊠ 48	RF	3/4"	24.00	3.00	2.50

WIND BENT REACTIONS



Loc	Wall Line	Col Line	± Reactions Wind(k) Horz	Wind Vert	Seismic(k) Horz	Seismic Vert
F_SW	A	2	6.20	10.78	0.52	0.90
F_SW	A	3	6.20	10.78	0.52	0.90
B_SW	I	3	6.20	10.78	0.52	0.90
B_SW	I	2	6.20	10.78	0.52	0.90

DESIGN CRITERIA

BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	1	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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PE 38968

8-15-08

ELITE STRUCTURES
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P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 7-29-08
DRAWN BY: T. GIBBS
BUILDING SIZE: 90'x80'x24'

REVISION

DA:	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FLORIDA

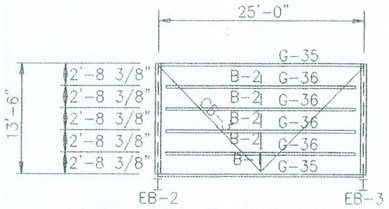
PLAN: COLUMN REACTIONS

JOB # 6364-CR

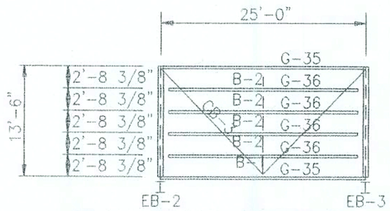
SHEET 2 OF 10

BOLT TABLE FRAME LINE A & I				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – WF-2	8	A325	3/4"	3"
WF-1 – RF1-1	10	A325	3/4"	3"

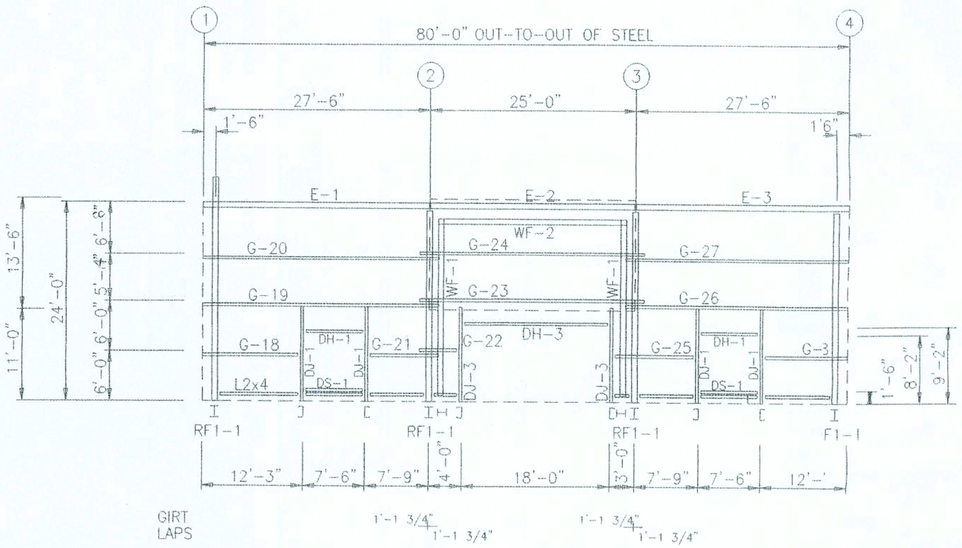
MEMBER TABLE FRAME LINE A & I			
QUAN	MARK	PART	LENGTH
4	WF-1	BUILT-UP	22'-4"
2	WF-2	BUILT-UP	20'-11 3/8"
2	EB-2	W8X18	13'-6"
2	EB-3	W8X18	13'-6"
6	DJ-1	12X35C14	12'-0"
4	DJ-3	12X35C14	12'-0"
2	DJ-4	12X35C14	12'-0"
4	DH-1	12X35C14	7'-5 1/2"
2	DH-3	12X35C14	17'-11 1/2"
3	DS-1	12X35C14	7'-5 1/2"
2	B-1	8X35C14	2'-8 3/8"
8	B-2	8X35C14	2'-8 3/8"
2	E-1	10E214L1	27'-5 1/2"
2	E-2	10E214L1	24'-11 1/2"
2	E-3	10E214L1	27'-5 1/2"
3	G-18	12X25Z12	11'-11"
1	G-19	12X25Z12	28'-7 1/2"
2	G-20	12X25Z12	28'-7 1/2"
1	G-21	12X25Z12	8'-7"
1	G-22	12X25Z14	4'-10"
1	G-23	12X25Z14	27'-3 1/2"
2	G-24	12X25Z14	27'-3 1/2"
1	G-25	12X25Z12	10'-1 1/2"
2	G-26	12X25Z12	28'-7 1/2"
2	G-27	12X25Z12	28'-7 1/2"
1	G-28	12X25Z12	11'-8"
1	G-29	12X25Z12	28'-7 1/2"
1	G-30	12X25Z12	8'-10"
1	G-31	12X25Z14	4'-4"
1	G-32	12X25Z14	27'-3 1/2"
1	G-33	12X25Z14	4'-4"
1	G-34	12X25Z12	8'-7"
4	G-35	8X25C14	24'-11 1/2"
8	G-36	8X35Z12	24'-11 1/2"
2	CB-3	1/4_CBL	18'-6"



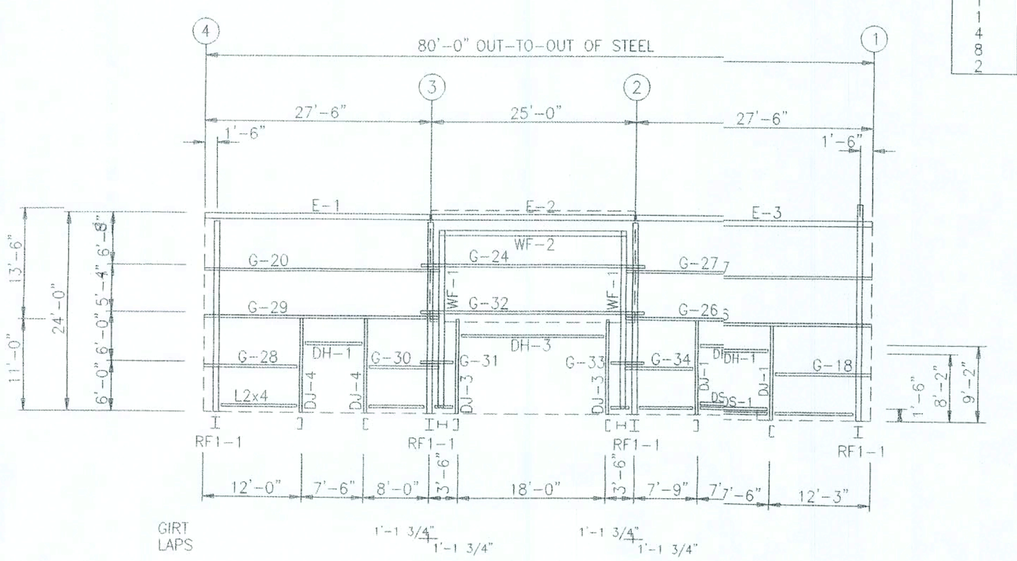
FACIA FRONT FRAMING: LINE A



FACIA FRONT FRAMING: LINE I



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL FRAMING: FRAME LINE I

DESIGN CRITERIA		
BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S.	DATE: 7-29-08	REVISION	
DRAWN BY: T. GIBBS		DA:	DESCRIPTION
BUILDING SIZE: 90'x80'x24'			

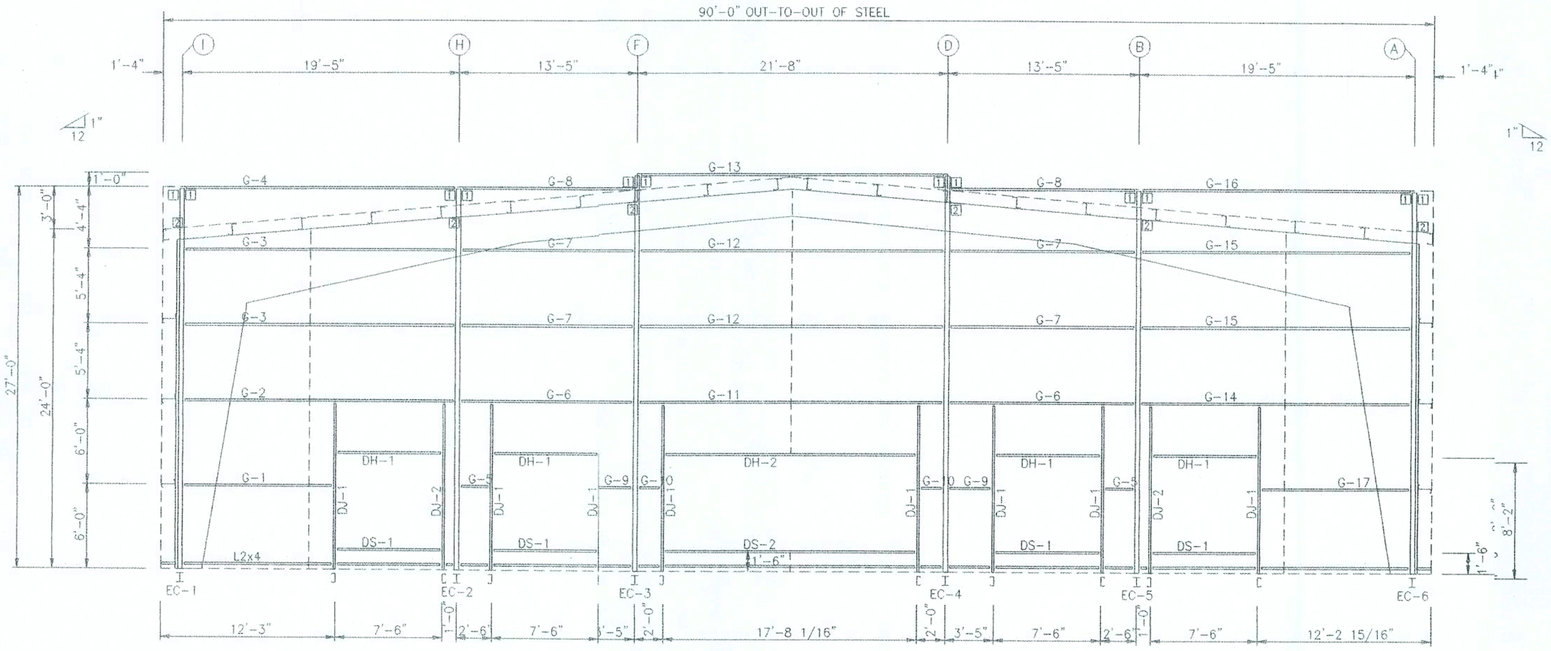
TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FLORIDA

PLAN: SIDEWALL FRAMING

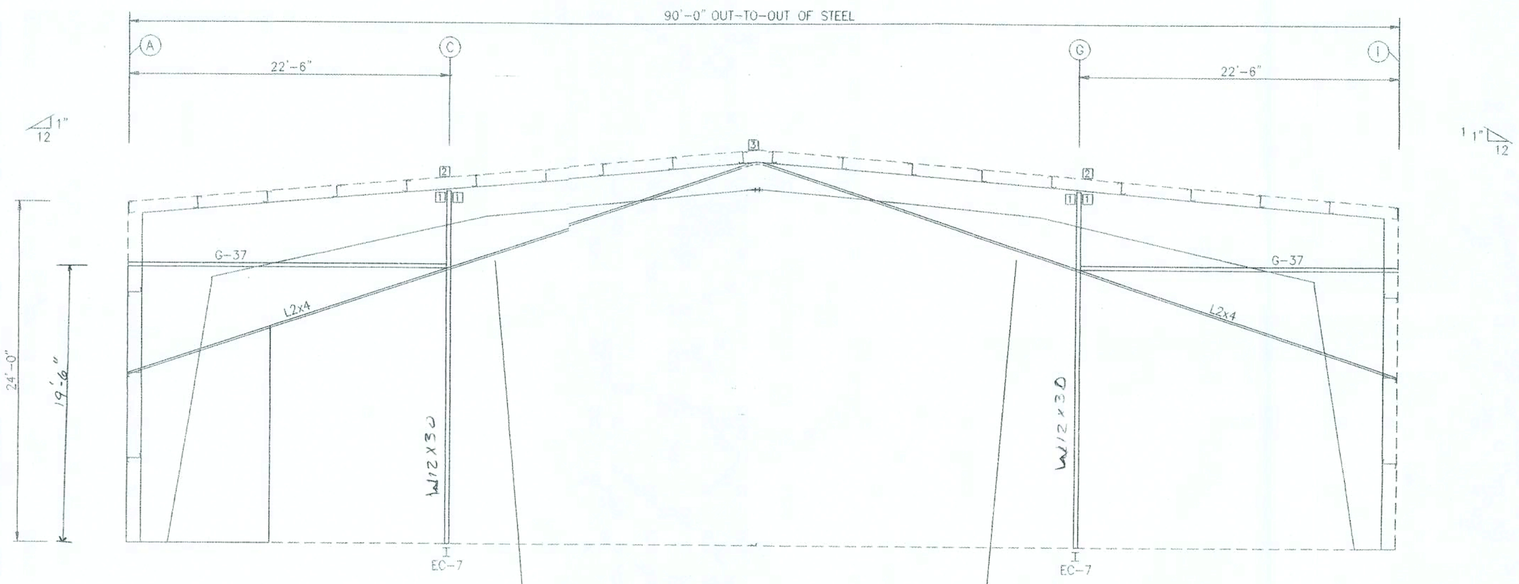
JOB # 6364-SF

SHEET 3 OF 10

8-18-08



ENDWALL FRAMING: FRAME LINE 1



ENDWALL FRAMING: FRAME LINE 4

USE 2x4 ANGLE TO ATTACH BOTTOM OF WAL SHEETS DOWN TO EXISTING BLDG ROOF

BOLT TABLE
FRAME LINE 1 & 4

LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	10	A325	1/2"	1 1/2"

MEMBER TABLE
FRAME LINE 1 & 4

MARK	PART	LENGTH
EC-1	W12X14	27'-0"
EC-2	W12X14	27'-0"
EC-3	W12X14	28'-0"
EC-4	W12X14	28'-0"
EC-5	W12X14	27'-0"
EC-6	W12X14	27'-0"
EC-7	W12X30	24'-4 3/16"
DJ-1	12X35C14	12'-0"
DJ-2	12X35C14	12'-0"
DH-1	12X35C14	7'-5 1/2"
DH-2	12X35C14	17'-7 1/2"
DS-1	12X35C14	7'-5 1/2"
DS-2	12X35C14	17'-7 1/2"
G-1	12X35Z14	10'-5"
G-2	12X35Z14	19'-0 1/2"
G-3	12X35Z14	19'-0 1/2"
G-4	12X25C14	20'-8 1/2"
G-5	12X25Z14	2'-0"
G-6	12X25Z14	13'-0 1/2"
G-7	12X25Z14	13'-0 1/2"
G-8	12X25C14	13'-4 1/2"
G-9	12X25Z14	2'-11"
G-10	12X35Z14	1'-6"
G-11	12X35Z14	21'-3 9/16"
G-12	12X35Z14	21'-3 9/16"
G-13	12X25C14	21'-7 9/16"
G-14	12X35Z14	19'-0 7/16"
G-15	12X35Z14	19'-0 7/16"
G-16	12X25C14	20'-8 7/16"
G-17	12X35Z14	10'-4 15/16"
G-37	12X35Z14	22'-3 1/2"

CONNECTION PLATES
FRAME LINE 1 & 4

ID	MARK/PART
1	g1
2	n1
3	n2

DESIGN CRITERIA

BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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SCALE: N.T.S. DATE: 7-29-08
DRAWN BY: T. GIBBS
BUILDING SIZE: 90'x80'x24'

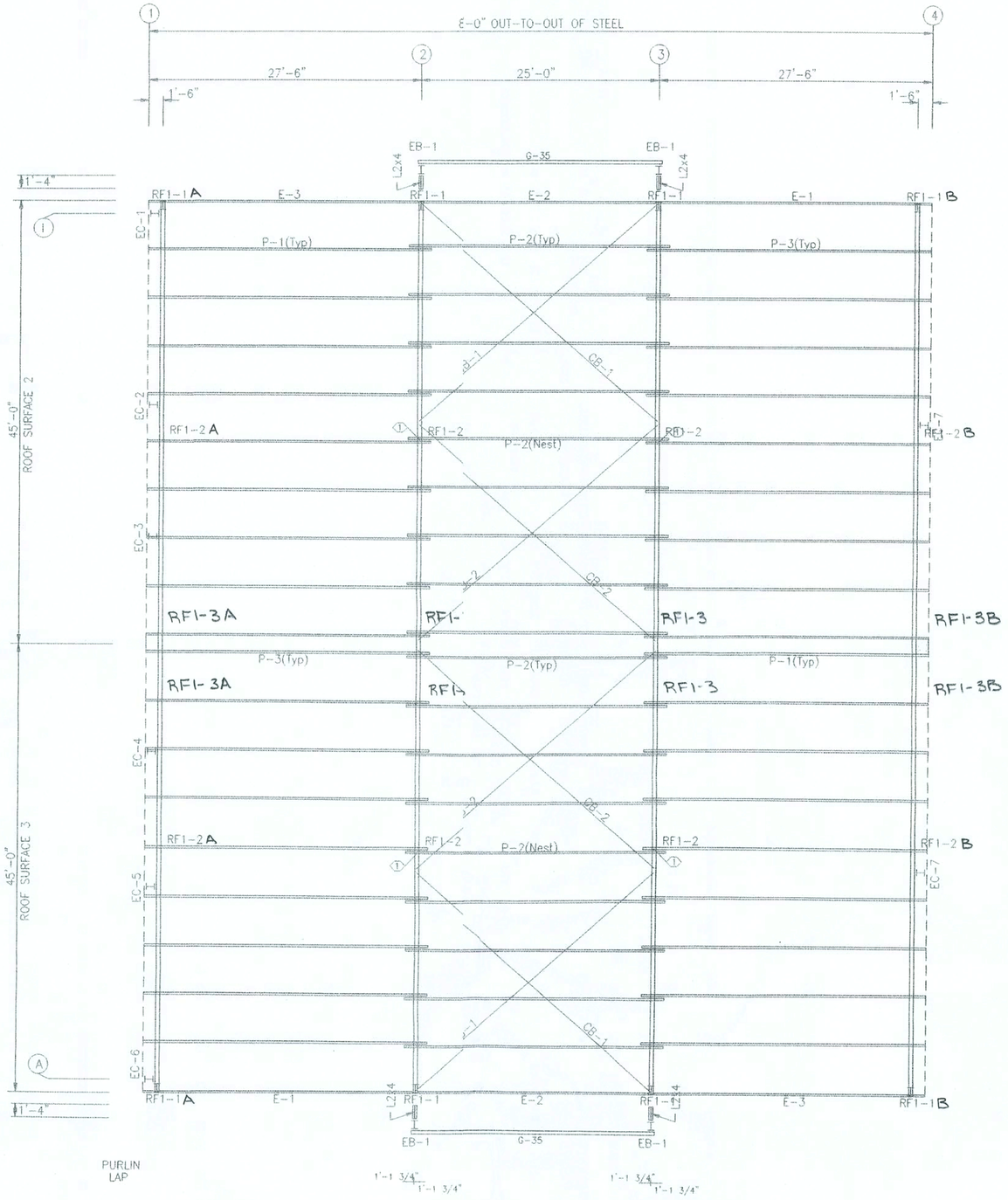
REVISION
DATE | DESCRIPTION

TITLE/LOCATION
CHRIST CENTRAL MINISTRIES
LAKE CITY, FLORIDA

PLAN:
ENDWALLL FRAMING

JOB # 6364-EF

SHEET 4 OF 10



ROF FRAMING PLAN

EXTENSION/CANOPY BOLTS
ROOF PLAN

MARK	QUAN	TYPE	DIA	LENGTH
EB-1	4	A325	3/4"	3"

SPECIAL BOLTS
ROOF PLAN

ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	1/2"	1 1/2"	0

MEMBER TABLE
ROOF PLAN

MARK	PART	LENGTH
EB-1	W8X18	1'-7 13/16"
P-1	10X25Z12	28'-7 1/2"
P-2	10X25Z12	27'-3 1/2"
P-3	10X25Z12	28'-7 1/2"
E-1	10E212L1	27'-5 1/2"
E-2	10E212L1	24'-11 1/2"
E-3	10E212L1	27'-5 1/2"
CB-1	1/2_CCBL	33'-3"
CB-2	1/4_CCBL	33'-10"

DESIGN CRITERIA

BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

HARRY V WHIDDON, P.E.
303 OLD QUITMAN HIGHWAY
ADEL, GA 31620
229-896-7569
PE 38968

8-15-08

ELITE STRUCTURES
DIVISION OF ELITE CONTRACTING INC.
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. | DATE: 7-29-08
DRAWN BY: T. GIBBS
BUILDING SIZE: 90'x80'x24'

REVISION

ITE.	DESCRIPTION

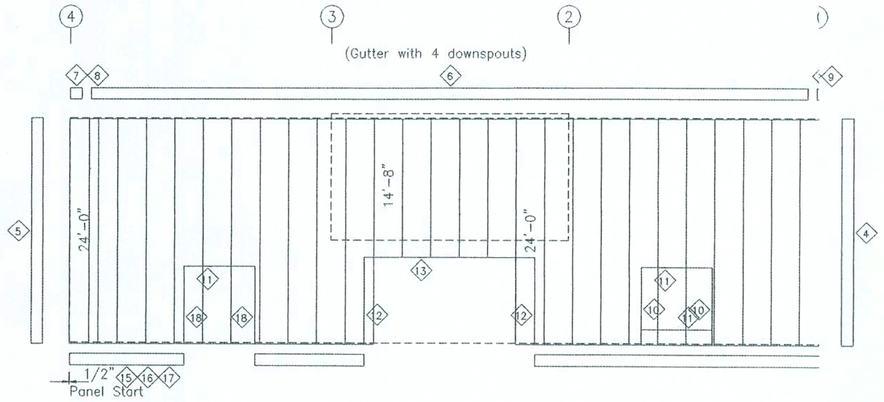
TITLE/LOCATION: CHRIST CENTRAL MINISTRIES
LAKE CITY, FLORIDA

PLAN: ROOF FRAMING

JOB # 6364-RF

SHEET 5 OF 10

FACIA FRONT SHEETING & TRIM: LINE 1



TRIM TABLE FRAME LINE A & 1		
◇ID	QUAN	PART
1	4	FL-835
2	2	FL-46D
3	2	FL-46D
4	4	FL-845
5	4	FL-514B
6	8	FL-74A
7	2	FL-14AL
8	4	FL-18A
9	2	FL-14AR
10	6	FL-514B
11	7	FL-514B
12	4	FL-514B
13	2	FL-514B
14	2	T-5342
15	1	FL-46D
16	1	FL-46D
17	2	FL-46D
18	2	FL-514B

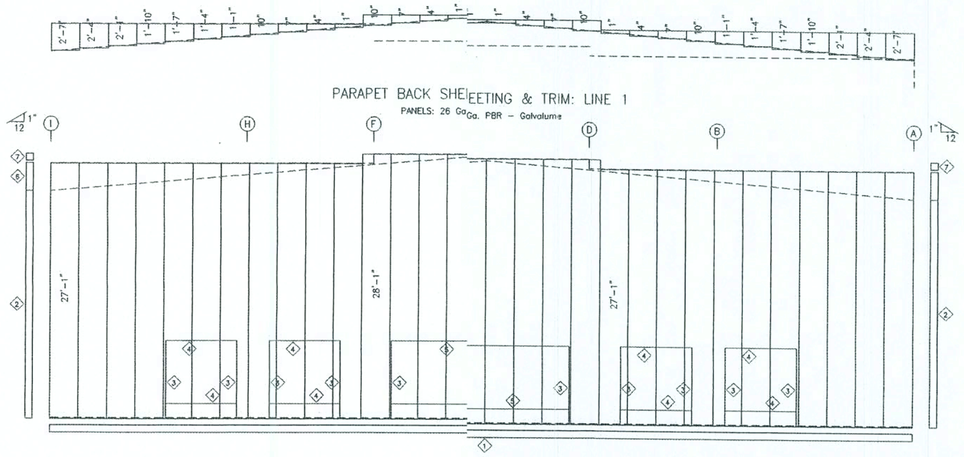
SIDEWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBU - Galvalume

TRIM TABLE FRAME LINE 1 & 4	
◇ID	PART
1	FL-46D
2	FL-845
3	FL-514B
4	FL-514B
5	FL-514B
6	FL-835
7	FL-835
8	FL-514B
9	FL-13D
10	FL-13C

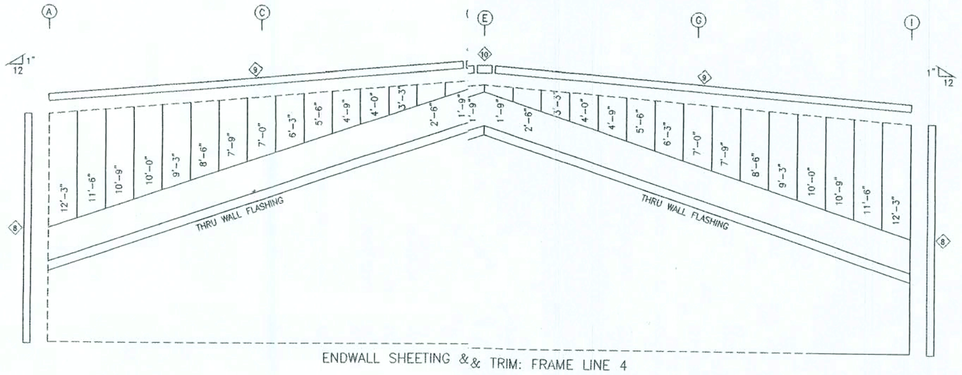
PARAPET BACK SHEETING & TRIM: LINE 1

PANELS: 26 Ga. PBR - Galvalume



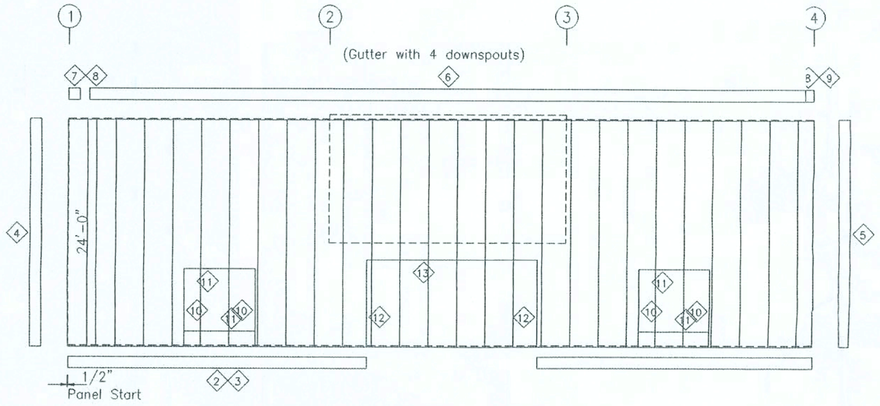
ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBU - Galvalume



ENDWALL SHEETING && TRIM: FRAME LINE 4

FACIA FRONT SHEETING & TRIM: LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBU - Galvalume

DESIGN CRITERIA

BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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8-15-08

ELITE STRUCTURES
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FAX 229-896-7560
P.O. BOX 207
ADEL, GA 31620

SCALE: N.T.S. DATE: 7-29-08
DRAWN BY: T. GIBBS
BUILDING SIZE: 90'x80'x24'

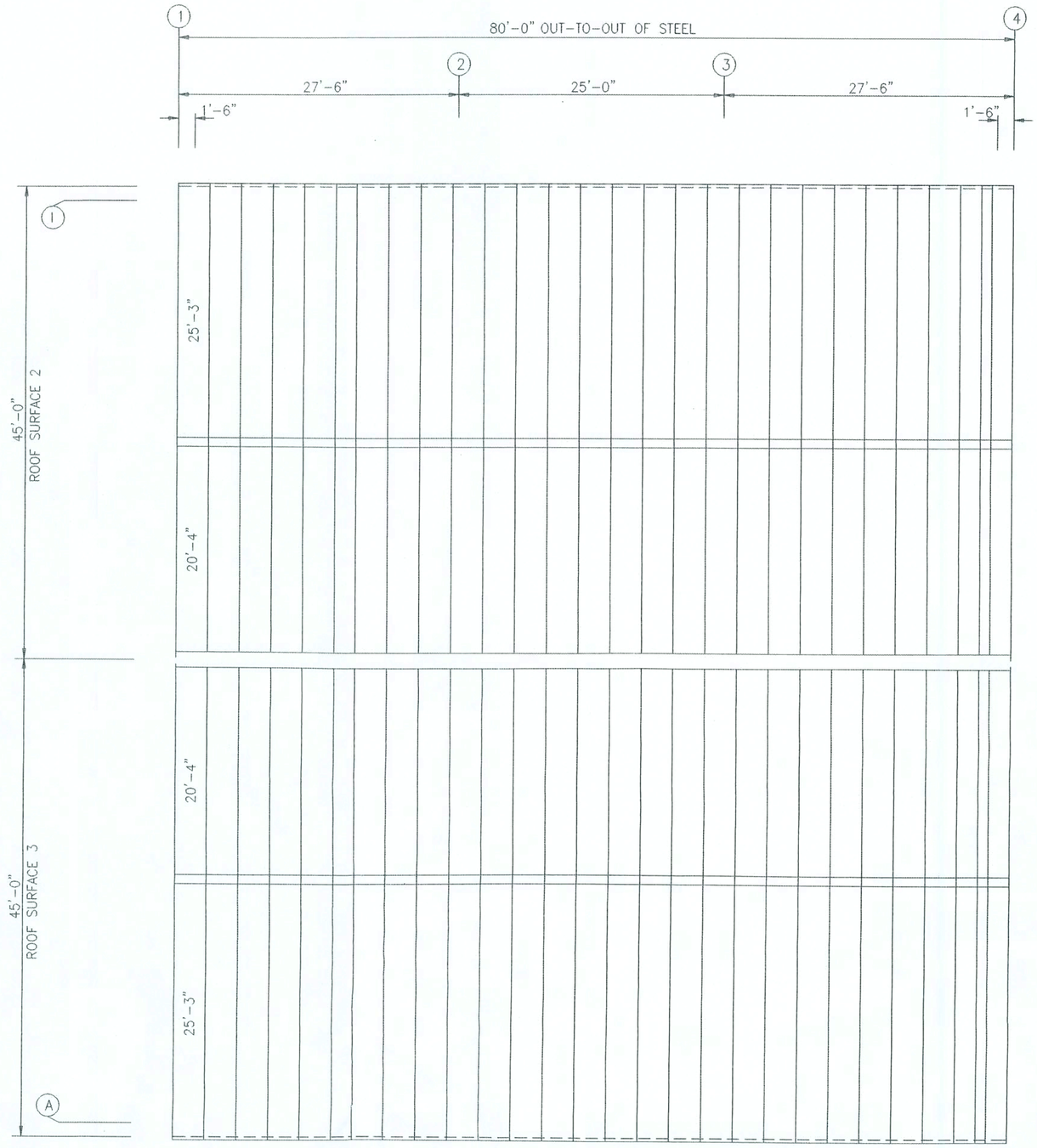
REVISION		
DATE:	DESCRIPTION	

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES, LAKE CITY, FLORIDA

PLAN: WALL SHEETING

JOB # 6364-WS

SHEET 6 OF 10



ROOF SHEETING PLAN

PANELS: 26 Ga. PBR – Galvalume

TRIM TABLE ROOF PLAN	
◇ID	PART
1	FL-13D

DESIGN CRITERIA		
BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	3	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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SCALE: N.T.S. DATE: 7-29-08
DRAWN BY: T. GIBBS
BUILDING SIZE: 90'x80'x24'

REVISION	
DATE:	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES LAKE CITY, FLORIDA

PLAN: ROOF SHEETING

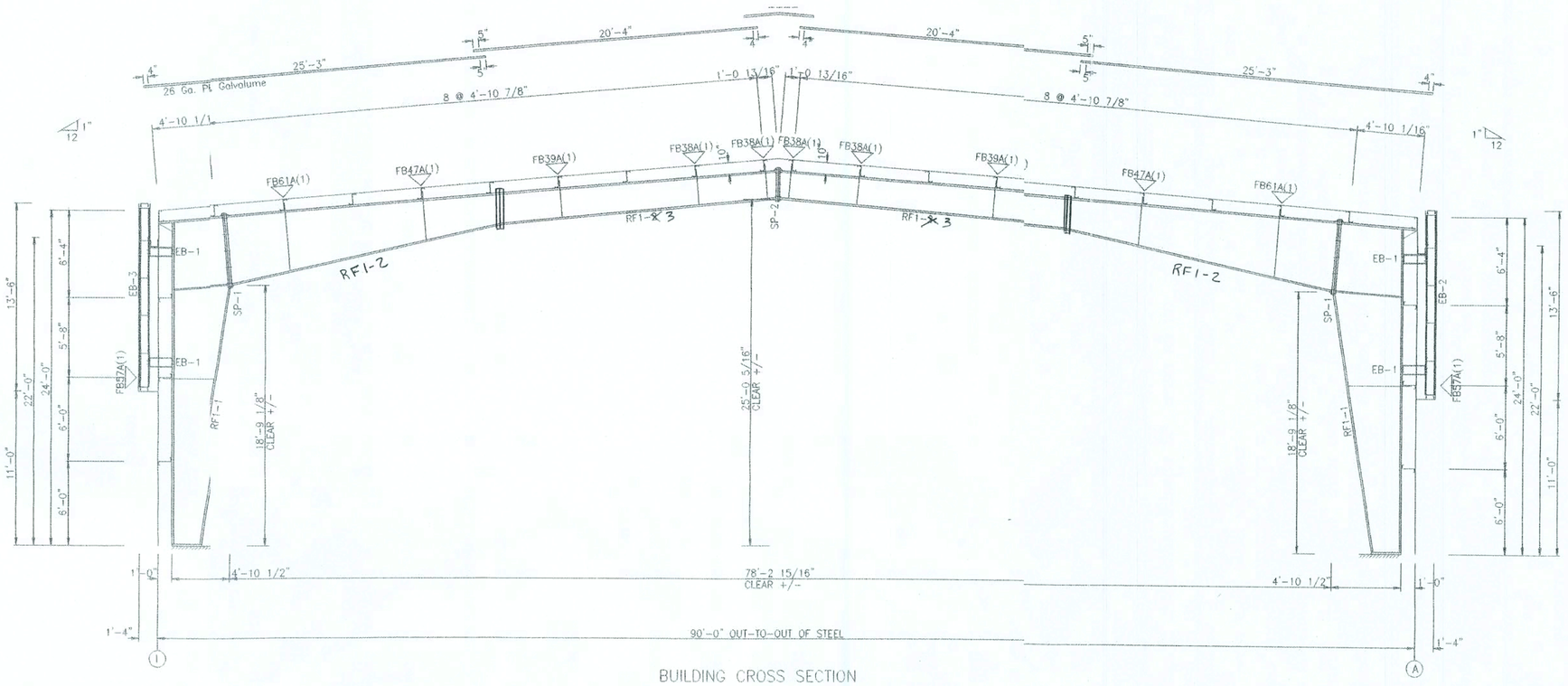
JOB # 6364-RS

SHEET 7 OF 10

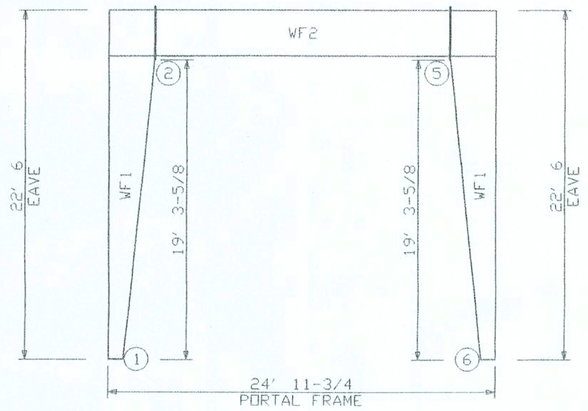
SPLICE BOLTS							
Splice Mark	Quan Top/Bot/Ht			Type	Bolt Dia		Len
SP- 1	4	4	6	A325	0.750		3.00
SP- 2	4	4	2	A325	0.750		3.00

▽FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=legth(in)
A - L2X2X14G

MEMBER SIZE TABLE (in)					
PIECE	WEB DEPTH START/END	WEB PLATE THICK	WEB PLATE LENGTH	OUTSIDE FLANGE W x T x LEN	INSIDE FLANGE W x T x LEN
RF1-1	22.3/38.8	0.2500	102.0	6x1/4" x235.4	6x1/4" x223.8
	38.8/58.0	0.2500	119.0	6x1/4" x 12.0	
	58.0/52.9	0.3113	61.6	6x1/4" x 22.7	
				6x5/16"x 65.3	
RF1-2	58.0/41.3	0.2500	119.0	6x1/4" x240.0	6x1/4" x237.4
	41.3/25.0	0.2500	116.1	6x1/4" x235.1	6x1/4" x238.1
	25.0/23.6	0.1888	108.0		
	23.6/23.5	0.1888	12.0		
	23.5/22.1	0.1344	108.0		
	22.1/22.0	0.1344	12.0		



BUILDING CROSS SECTION
FOR FRAME LINE 1 2 3 4



JOINT INFORMATION					
JOINT	PARTMARK	DEPTH	THICKNESS	BOLT QTY	DESCRIPTION
1	WF1	11	0.1345		
2	WF1	2' 11	0.1875	8	H. 75X200
6	WF1	11	0.1345		
5	WF1	2' 11	0.1875	8	H. 75X200
2	WF2	2' 11	0.1875		
5	WF2	2' 11	0.1875		
3	WF2	2' 11	0.1875		

DESIGN CRITERIA		
BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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SCALE: N.T.S. DATE: 7-29-08
DRAWN BY: T. GIBBS
BUILDING SIZE: 90'x80'x24'

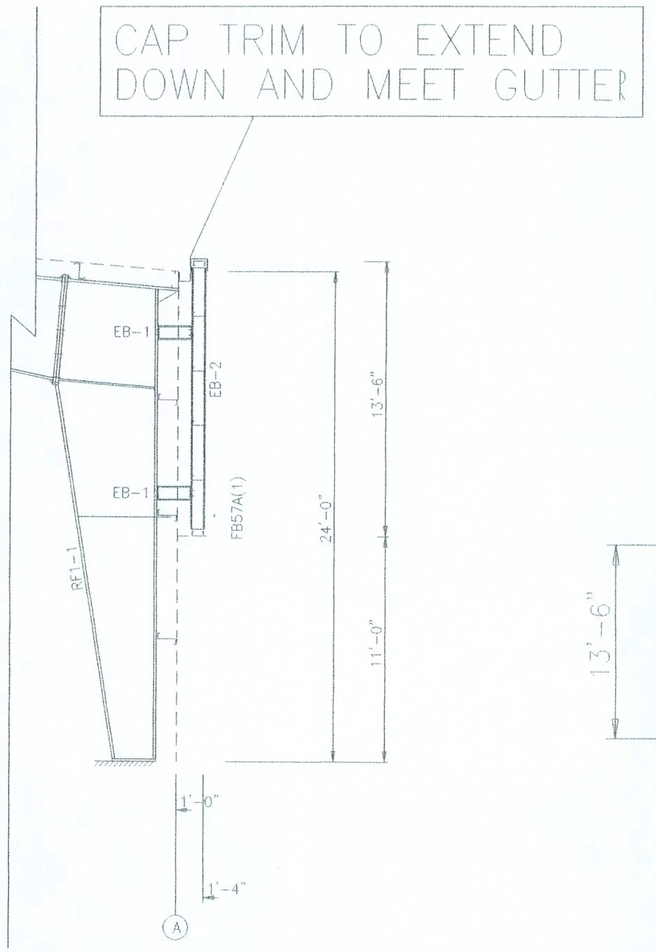
REVISION	
DE:	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES LAKE CITY, FLORIDA

PLAN: CROSS SECTION

JOB # 6364-XS

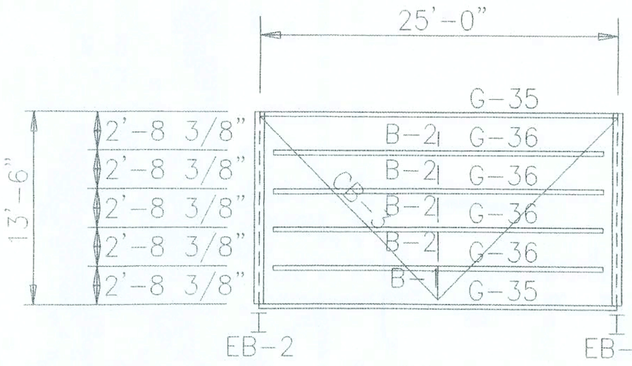
SHEET 8 OF 10



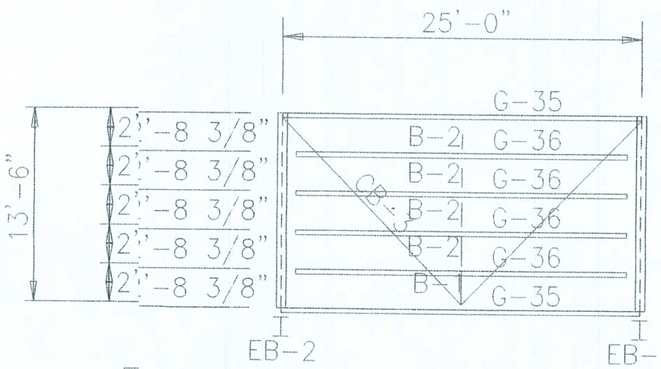
(TYP) BOTH FOR BOTH FACIAS

BOLT TABLE FRAME LINE A & I				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - WF-2	8	A325	3/4"	3"
WF-1 - RF1-1	10	A325	3/4"	3"

MEMBER TABLE FRAME LINE A & I			
QUAN	MARK	PART	LENGTH
4	EB-1	W8X18	1'-7 13/16"
2	EB-2	W8X18	13'-6"
2	EB-3	W8X18	13'-6"
4	G-35	8X25C14	24'-11 1/2"
8	G-36	8X35Z12	24'-11 1/2"
2	CB-3	1/4_CBL	18'-6"



FACIA FRONT FRAMING: LINE A



FACIA FRONT FRAMING: LINE I

DESIGN CRITERIA		
BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

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SCALE: N.T.S. DATE: 7-29-08
DRAWN BY: T. GIBBS DATE:
BUILDING SIZE: 90'x80'x24'

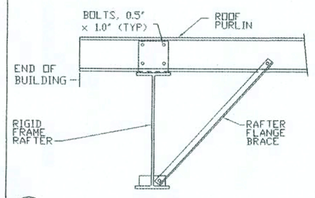
REVISION
DESCRIPTION

TITLE/LOCATION
CHRIST CENTRAL MINISTRIES
LAKE CITY, FLORIDA

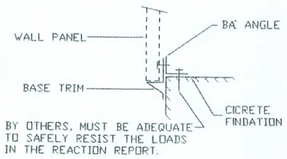
PLAN:
FACIA FRAMING

JOB # 6364-FF

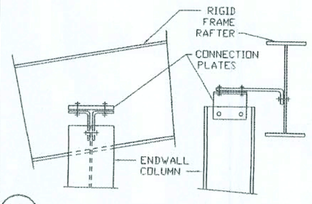
SHEET 9 OF 10



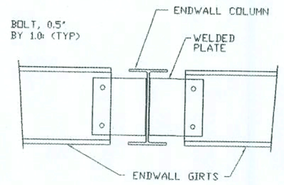
A10 ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME



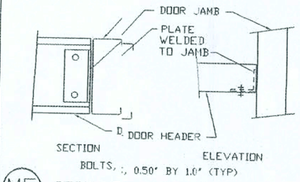
T1 SECTION THRU WALL PAEL AND CONCRETE FOUNDA'ON



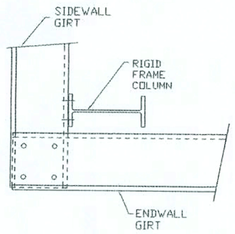
B31 ENDWALL RAFTER TO COLUMN



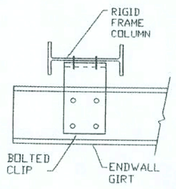
C6 ENDWALL COLUMN TO WALL GIRT



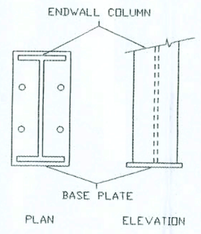
M5 DOOR HEADER TO DOOR JAMB



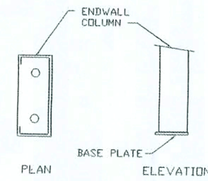
D16 CORNER COLUMN TO WALL GIRT



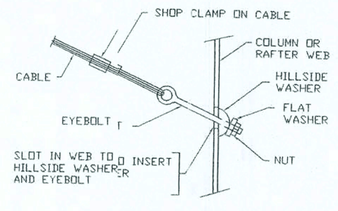
D27 CORNER COLUMN TO ENDWALL GIRT



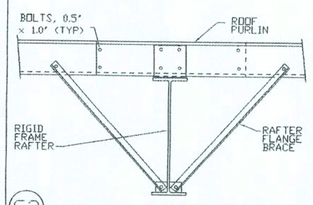
E3 BASE PLATE FOR ENDWALL COLUMN



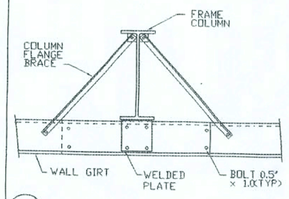
E5 BASE PLATE TO ENDWALL COLUMN OR DOOR JAMB



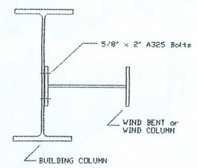
Q2 DIAGONAL CABLE, EYEBOLT END



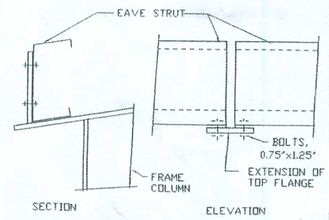
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



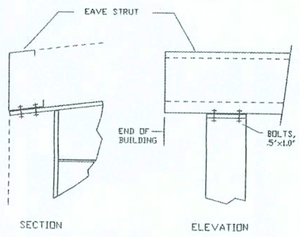
H2 WALL GIRT TO FRAME COLUMN



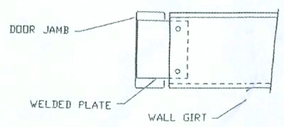
H9 WIND BENT OR WIND COLUMN TO BUILDING COLUMN



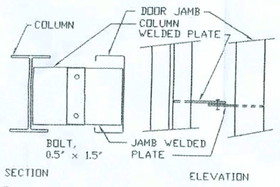
J2 EAVE STRUT TO RIGID FRAME



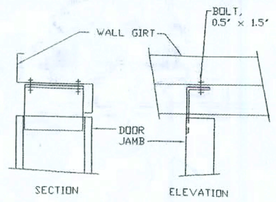
J24 EAVE STRUT TO RIGID FRAME



K3 WALL GIRT TO DOOR JAB



K7 WALL COLUMN TO DOOR JAMB



L8 DOOR JAMB TO WALL GIRT

DESIGN CRITERIA

BUILDING CODE:	IBC	
LIVE LOAD TO FRAMES:	12	PSF
LIVE LOAD TO PURLINS:	20	PSF
COLLATERAL LOAD:	1	PSF
SNOW LOAD:	0	PSF
WIND LOAD: (3 SECOND GUST)	110	MPH
WIND IMPORTANCE FACTOR:	1.15	
WIND EXPOSURE:	B	
BUILDING OCCUPANCY CATEGORY	II	
SEISMIC USE GROUP	I	
ENCLOSURE CLASSIFICATION	ENCLOSED	

HARRY V WHIDDON, P.E.
303 OLD QUITMAN HIGHWAY
ADEL, GA 31620
229-896-7569
PE 38968

8-15-08

ELITE STRUCTURES
DIVISION OF ELITE CONTRACTING INC.
PH 229-896-7569
FAX 229-896-7560
P.O. BOX 207
ADEL , GA 31620

SCALE: N.T.S. DATE: 7-29-08
DRAWN BY: T. GIBBS
BUILDING SIZE: 90'x80'x24'

REVISION

DA	DESCRIPTION

TITLE/LOCATION: CHRIST CENTRAL MINISTRIES LAKE CITY, FLORIDA

PLAN: DETAILS

JOB # 6364-DE

SHEET 10 OF 10