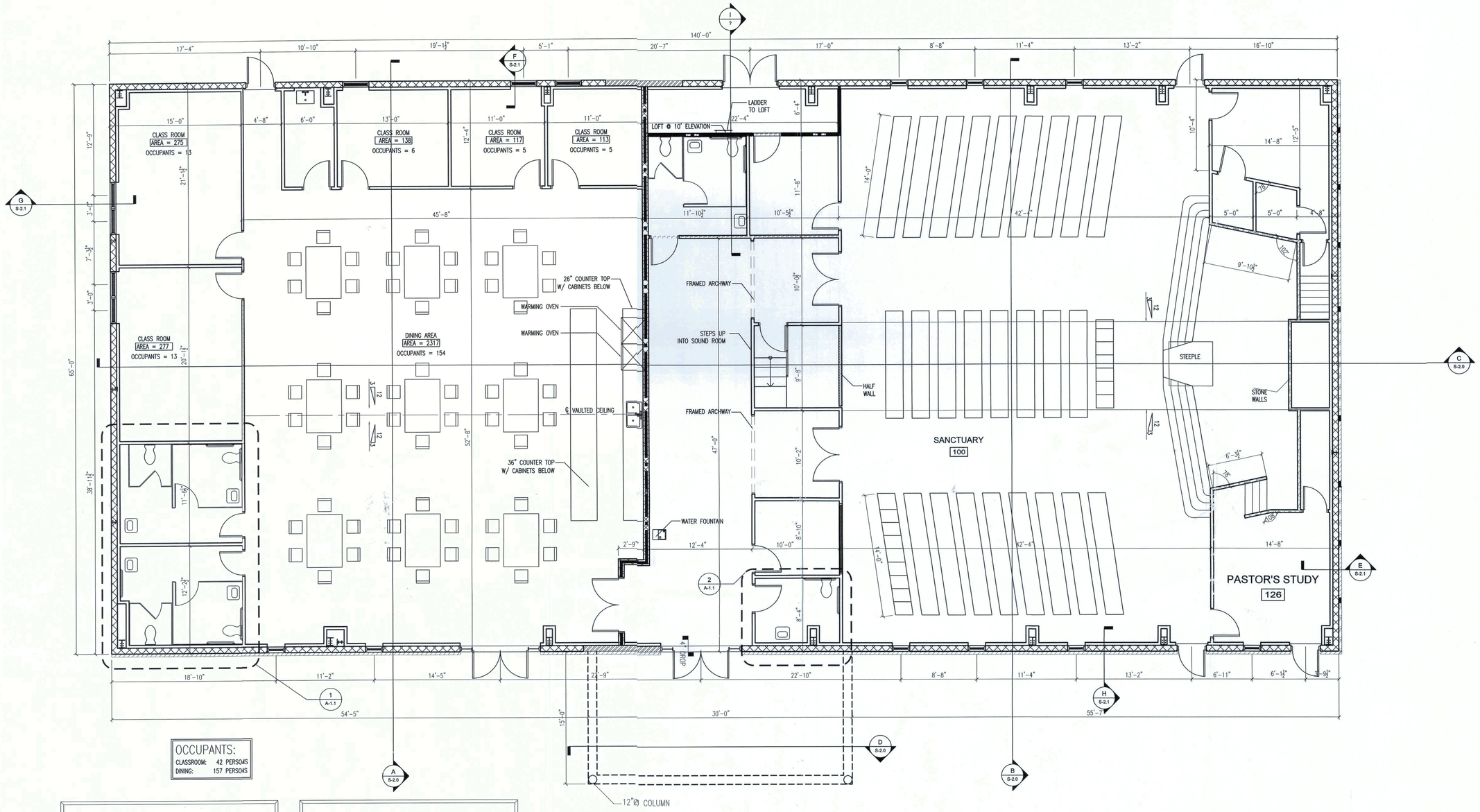


OCCUPANTS:
CLASSROOM: 42 PERSONS
DINING: 157 PERSONS

## WALL LEGEND

- = INTERIOR WALLS 3 5/8" METAL STUDS
- = INTERIOR HALF WALLS 42" A.F.F. 3 5/8" METAL STUDS
- = 1 HOUR FIRE WALL
- = INTERIOR BEARING WALL
- = DECORATIVE STONE WALL
- = DECORATIVE BRICK WALL
- = 8" METAL WALL

## BUILDING AREA

| | | |
|---|---|---|
| BUILDING AREA | = | 9100 S.F. |
| COMMON AREA & CLASS ROOMS | = | 4377 S.F. |
| SANCTUARY & ENTRANCE AREA | = | 4416 S.F. |
| FRONT PORCH | = | 450 S.F. |

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

ISSUED FOR APPROVAL

9/27/07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| - | 10-20-06 | ISSUED FOR CONSTRUCTION |


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Gary Gill, PE 51942
Auth. # 9461
STRUCTURAL/CIVIL ENGINEERS

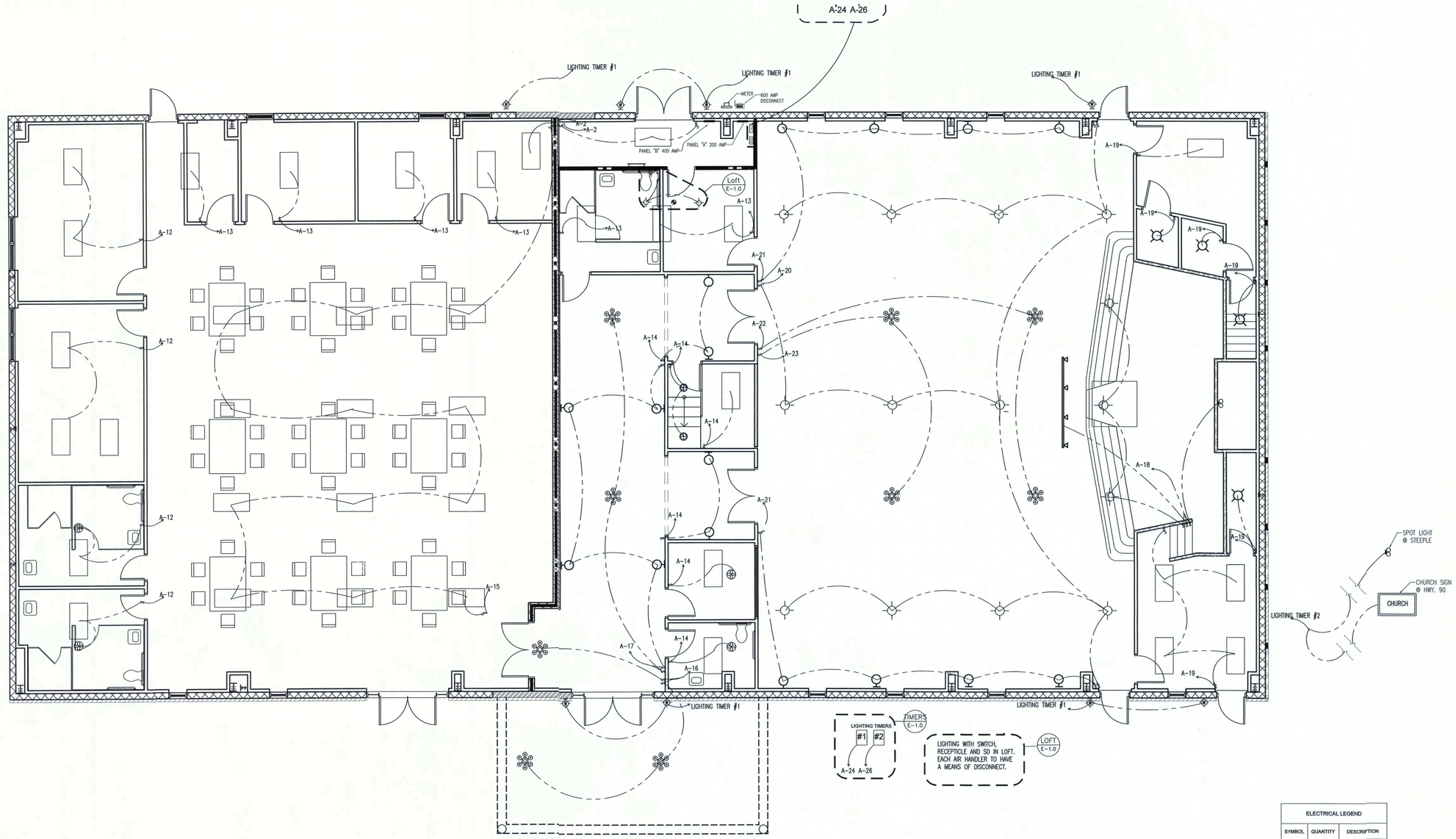

7th ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

FLOOR PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: D. PRICE
CHECKED BY: G.G.

A-1.0

SHEET 1 OF 16




LIGHTING PLAN

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

| ELECTRICAL LEGEND | | |
|---|---|---|
| SYMBOL | QUANTITY | DESCRIPTION |
| | 11 | SPOT LIGHT |
| | 3 | DIRECTIONAL SPOT LIGHT |
| | 9 | DECORATIVE HANGING CHANDELIER |
| | 47 | 2X4 2 LAMP FLOURESCENT LIGHT |
| | 3 | EXHAUST FAN |
| | 8 | COACH LIGHT |
| $ | 29 | SINGLE POLE SWITCH |
| $3 | 14 | 3 WAY SWITCH |
| $4 | 1 | 4 WAY SWITCH |
| | 1 | METER |
| | 2 | PANEL W/ MAIN BREAKER |
| | 2 | RECESSED CAN LIGHT |
| | 2 | SURFACE MOUNT GLOBE LIGHT |

ISSUED FOR APPROVAL

9/27/05

| REV # | DATE | REVISION NOTES |
|---|---|---|
| - | 10-20-06 | ISSUED FOR CONSTRUCTION |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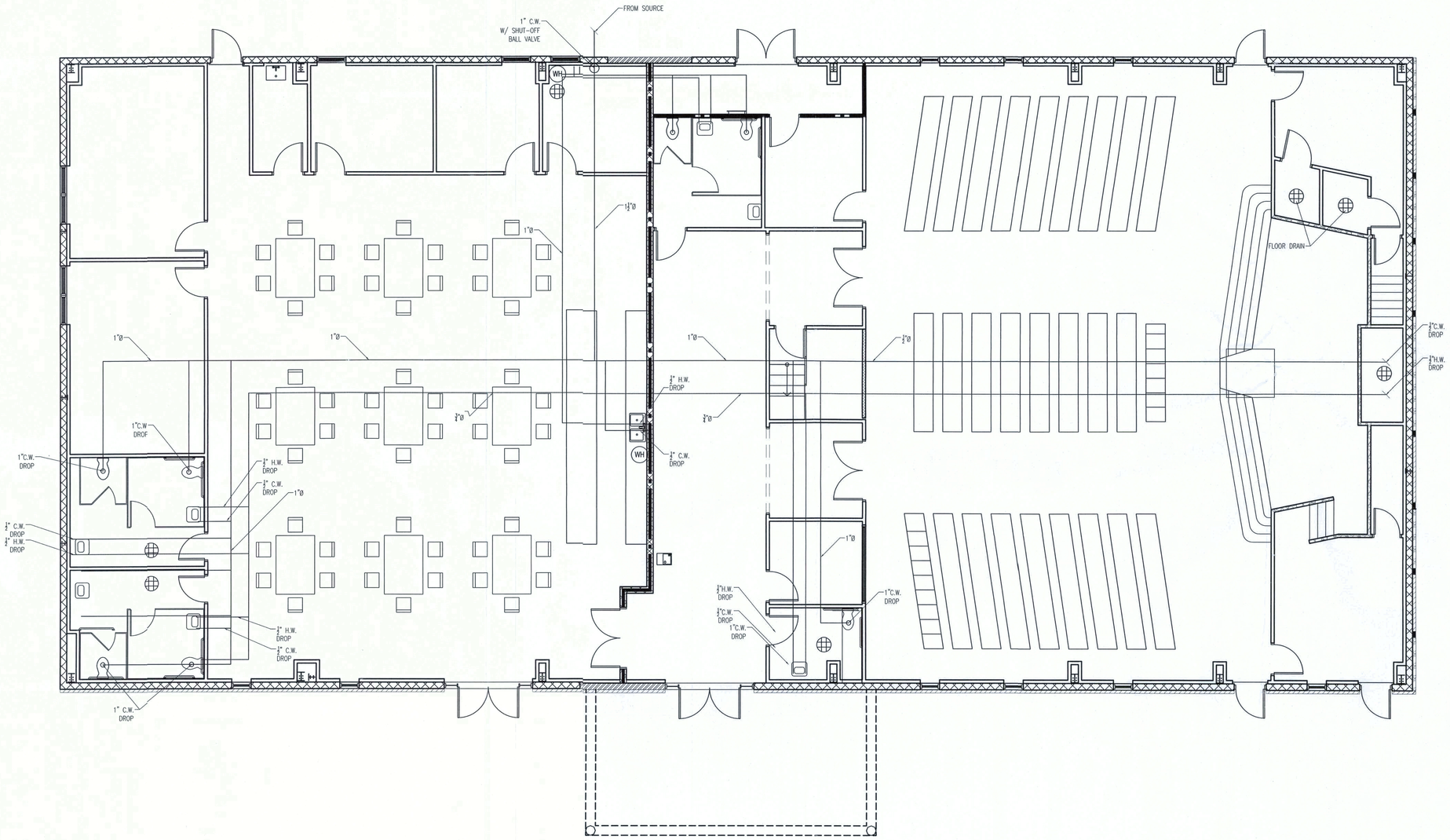
7th ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

LIGHTING PLAN

PROJECT NUMBER PF06-193S
DRAWN BY D. PRICE
CHECKED BY G.G.

E-1.0

SHEET 12 OF 16




WATER PLAN

SCALE: 3/8" = 1'-0"

# ISSUED FOR APPROVAL

25-Sep-07

9/27/07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| — | — | ##### |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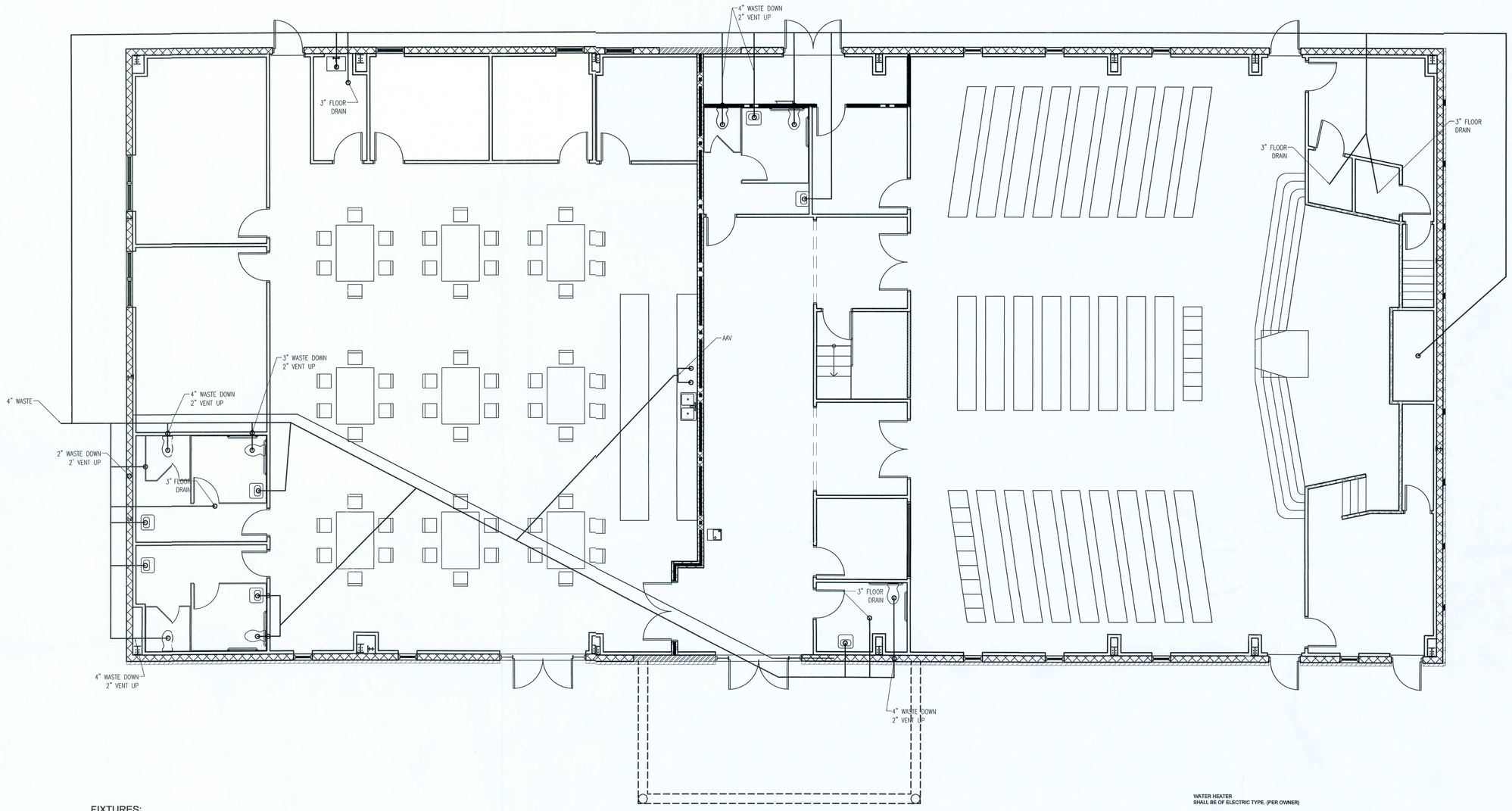
7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

WATER SUPPLY PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

P-1

SHEET 15 OF 16




## SEWER PLAN

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

FIXTURES:

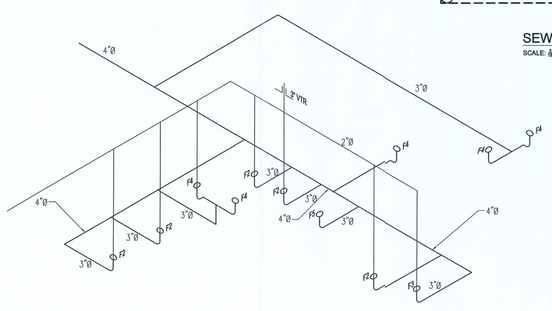
F1 = LAVATORY
F2 = WATER CLOSET
F3 = FLOOR DRAIN
F4= SINK
F5 = URINAL
FD = FLOOR DRAIN

NOTES:

1. SOIL PIPING, VENTS, AND STACK TO BE SCH. 40 PVC.

2. ALL AAV (AIR ADMITTANCE VENT) VALVES TO BE ACCESSIBLE IN CABINETS OR BY ACCESS GRILLE FOR MAINTENANCE.

3. ALL WORK TO BE INSPECTED AND TESTED IN ACCORDANCE WITH LOCAL CODES.




## PLUMBING RISER DIAGRAM

SCALE: N.T.S.

1. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC., PLUMBING CONTRACTOR SHALL FURISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.
2. ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. ALL MATERIAL SHALL BE NEW.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
6. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
7. THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
9. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
10. VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
11. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
12. WATER PIPING SHALL BE CPVC.
13. SOIL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
14. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERNAL PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
15. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE AND PDI APPROVED SHACK ARRESTERS ON MAIN LINE AND RISERS.
16. PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM #58890.
17. INSULATE LINES AS FOLLOWS:
a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
b. CONDENSATE DRAIN: ½" THICK ARMAFLEX

WATER HEATER
SHALL BE OF ELECTRIC TYPE. (PER OWNER)

WC
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2174.139 ELONGATED TANK 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

HC WC
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2216.143 ELONGATED 18" HIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

KITCHEN SINK
SHALL BE ELKAY LUSTERTONE MODEL DLH-2222-10-C SINGLE BOWL STAINLESS STEEL SELF-RIMMING SINK WITH LK2432 HI-ARC FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 2.0 GPM FLOW RESTRICTOR.

JANITOR SINK
SHALL BE AN AMERICAN STANDARD MODEL FLORWELL 7740.020 ENAMELED CAST IRON SERVICE SINK WITH 7745.011 REMOVABLE VINYL-COATED RIM GUARD, 7721.038 DRAIN WITH STRAINER AND 7298.152 HERITAGE SERVICE SINK FITTING FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING VANDAL RESISTANT 2.0 GPM FLOW RESTRICTOR WITH BUCKET HOOKS.

LAV
SHALL BE AN AMERICAN STANDARD MODELRONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.152H HERITAGE CENTER SET FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR

HC LAV
SHALL BE AN AMERICAN STANDARD MODELRONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.172H HERITAGE CENTERSET FAUCET WITH 4" WRIST BLADE HANDLES TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR AQUASEAL VALVE AND CHROME FINISH, GRIP DRAIN: OFFSET PERFORATED WHEELCHAIR LAVATORY DRAIN ASSEMBLY WITH 1-1/2" TAILPIECE. MCGUIRE #155WC.

EWC
SHALL BE AN OASIS MODEL PLF8WMEE, 8.0 GPM, 4.8 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR

HOSE BIBB

SHALL BE A JOSAM 71000-95 SERIES CAST BRONZE BOX TYPE NON-FREEZE VANDAL PROOF WALL HYDRANT WITH COVER AND CONTROL KEY.

NOTES:
1. ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURE FOR INDIVIDUAL SHUT-OFF.
3. ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED PER THE LASTED ADA REQUIREMENTS.

# ISSUED FOR APPROVAL

9/27/07

25-Sep-07

| REV # | DATE | REVISION NOTES |
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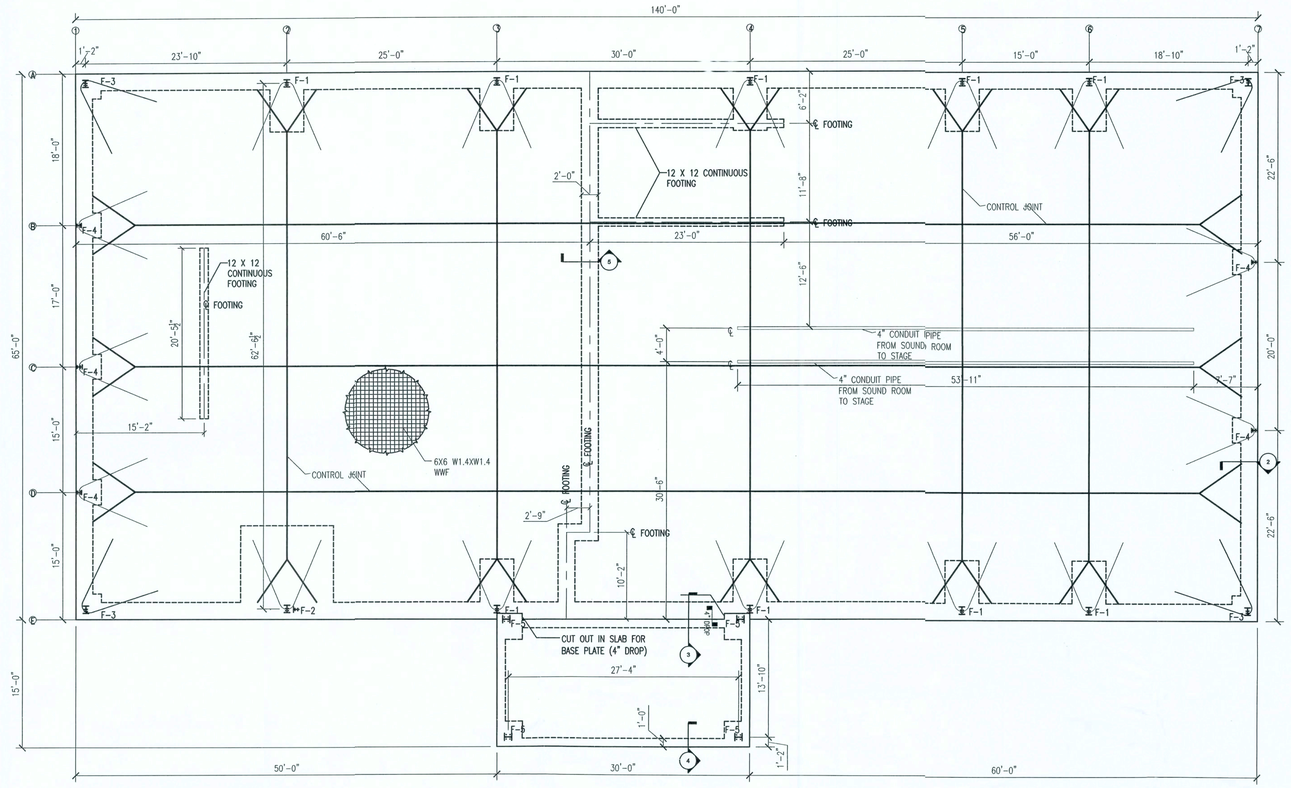
7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

PLUMBING PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

P-2

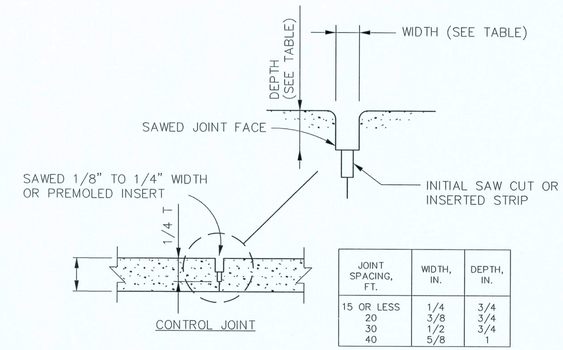
SHEET 16 OF 16




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

NOTES:

1. ALL MATERIALS USED TO PRODUCE CONCRETE AND ADMIXTURES FOR CONCRETE SHALL COMPLY WITH ACI 318.
2. CONCRETE AGGREGATES SHALL CONFORM TO ACTM C150.
3. CONCRETE SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI.

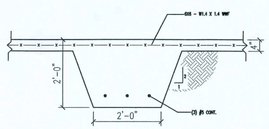



| JOINT SPACING, FT. | WIDTH, IN. | DEPTH, IN. |
|---|---|---|
| 15 OR LESS | 1/4 | 3/4 |
| 20 | 3/8 | 3/4 |
| 30 | 1/2 | 3/4 |
| 40 | 5/8 | 1 |

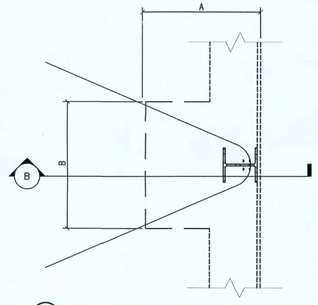
CONTROL JOINT (C.J.)

FOOTING SCHEDULE

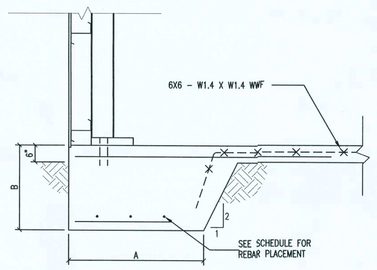
| FOOTING MARK | FOOTING DIMENSIONS A | FOOTING DIMENSIONS B | FOOTING DIMENSIONS C | DETAIL MARK | SECTION MARK | BOTTOM REBAR | TOP REBAR | ANCHOR BOLT DIAMETER | ANCHOR BOLT TOTAL LENGTH | ANCHOR BOLT EMBEDMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| F-1 | 7'-0" | 4'-0" | 2'-6" | A | 1-A | (5) #5 E.W. | (5) #5 E.W. | 0'-0 3/4" | 1'-6" | 1'-0" |
| F-2 | 11'-0" | 11'-0" | 2'-6" | A | 1-A | #5 @ 12" O/C/. | #5 @ 12" O/C/. | 0'-1" | 1'-6" | 1'-6" |
| F-3 | 3'-0" | 3'-0" | 2'-6" | B | 1-B | (5) #5 E.W. | (5) #5 E.W. | 0'-0 3/4" | 1'-6" | 1'-0" |
| F-4 | 3'-0" | 3'-0" | 2'-6" | B | 1-B | (3) #5 E.W. | (3) #5 E.W. | 0'-0 5/8" | 1'-6" | 1'-0" |
| F-5 | 3'-0" | 3'-0" | 2'-6" | B | 1-B | (3) #5 E.W. | (3) #5 E.W. | 0'-0 3/4" | 1'-6" | 1'-0" |



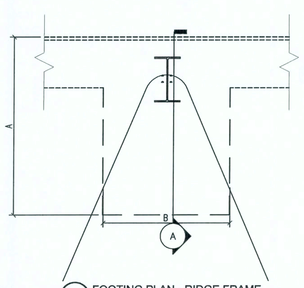

4 DETAIL
1/8" = 1'-0"



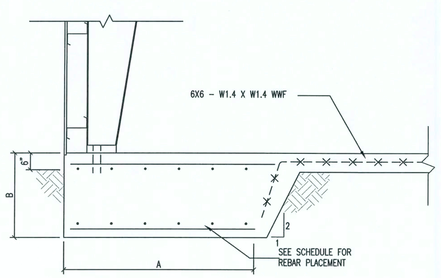

1-B FOOTING PLAN - END WALL
3/4" = 1'



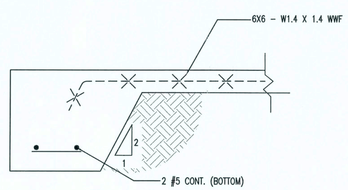

B FOOTING DETAIL
1/2" = 1'



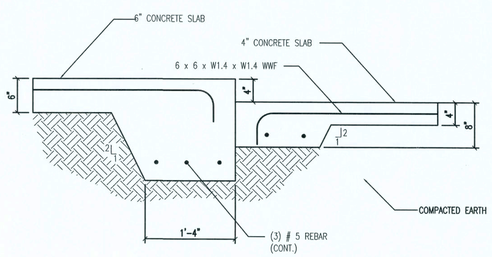

1-A FOOTING PLAN - RIDGE FRAME
3/4" = 1'



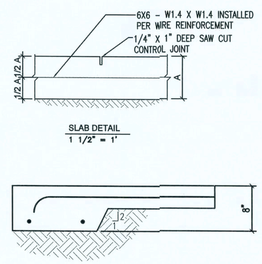

A DETAIL
1/2" = 1'-0"




2 DETAIL
1/8" = 1'-0"




3 DETAIL
1" = 1'




SLAB DETAIL
1 1/2" = 1'

4 DETAIL
1" = 1'

ISSUED FOR APPROVAL 9/5/10

25-Sep-07

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|---|---|---|
| — | — | #### |


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7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

FOUNDATION PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: D. PRICE
CHECKED BY: G.G.

S-1

SHEET 8 OF 16

# 7th ADVENTIST CHURCH

## NEW WORSHIP CENTER

COLUMBIA COUNTY, FLORIDA

APPLICABLE CODES
2004 FLORIDA BUILDING CODE
2002 NATIONAL ELECTRIC CODE (NFPA 70)
2004 FLORIDA PLUMBING CODE
2004 FLORIDA MECHANICAL CODE
2004 FLORIDA FIRE PROTECTION CODE
(INCLUDES 2004 LIFE SAFETY CODE)

OCCUPANCY CLASS
ASSEMBLY (A-3)
BUSINESS (PROFESSIONAL SERVICES)

OCCUPANCY LOADING / EGRESS REQUIREMENTS
ASSEMBLY (A-3) FIXED SEATING = 168, UNCONCENTRATED SEATING = 40
BUSINESS (PROFESSIONAL SERVICES) = 45

TYPE OF CONSTRUCTION
TYPE III

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

DO NOT SCALE OFF THESE PLANS
AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATONS OF THOSE ITEMS NOT DIMENSIONED.


GTC DESIGN GROUP, LLC
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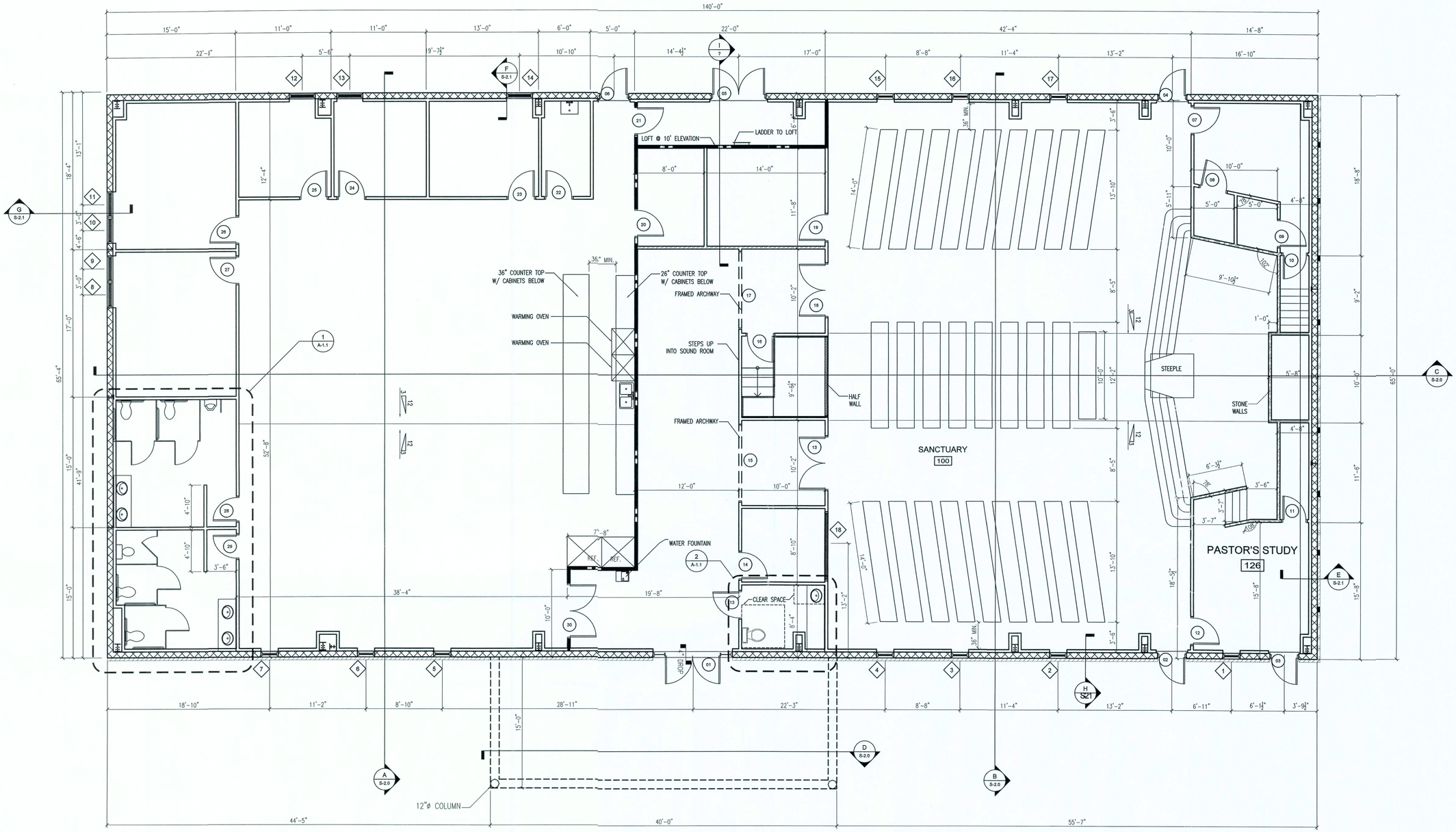
| BUILDING AREA | | |
|---|---|---|
| BUILDING AREA | = | 9100 S.F. |
| COMMON AREA & CLASS ROOMS | = | 4377 S.F. |
| SANCTUARY & ENTRANCE AREA | = | 4416 S.F. |
| FRONT PORCH | = | 450 S.F. |
| AREA INDEX: | | |
| HEATED: | | =1538.92 S.F. |
| TOTAL: | | =4065.64 S.F. |

## Sheet List Table



9/5/07




## WALL LEGEND

- = INTERIOR WALLS 3 5/8" METAL STJDS
- = INTERIOR HALF WALLS 42" A.F.F. 3 5/8" METAL STUDS
- = 1 HOUR FIRE WALL
- = INTERIOR BEARING WALL
- = DECORATIVE STONE WALL
- = DECORATIVE BRICK WALL
- = 8" METAL WALL

## BUILDING AREA

| | | |
|---|---|---|
| BUILDING AREA | = | 9100 S.F. |
| COMMON AREA & CLASS ROOMS | = | 4377 S.F. |
| SANCTUARY & ENTRANCE AREA | = | 4416 S.F. |
| FRONT PORCH | = | 450 S.F. |

FLOOR PLAN

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

# ISSUED FOR APPROVAL

9/13/07

31-Aug-07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| - | 10-20-06 | ISSUED FOR CONSTRUCTION |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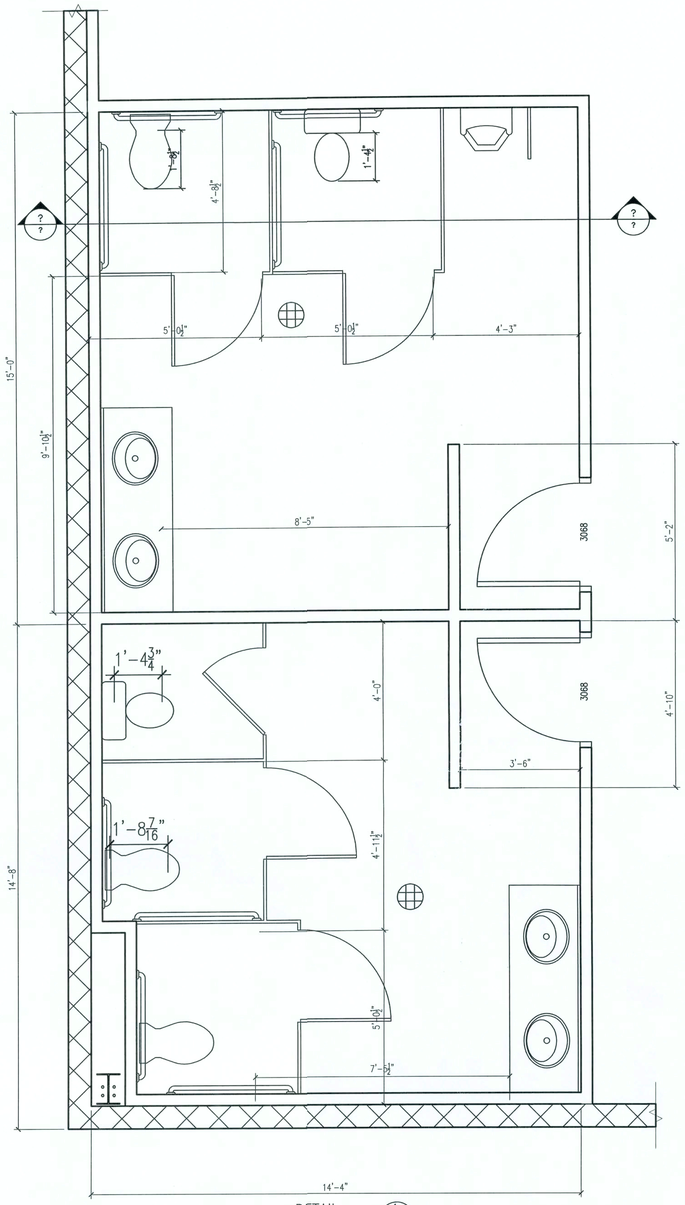
COLUMBIA COUNTY, FLORIDA

FLOOR PLAN

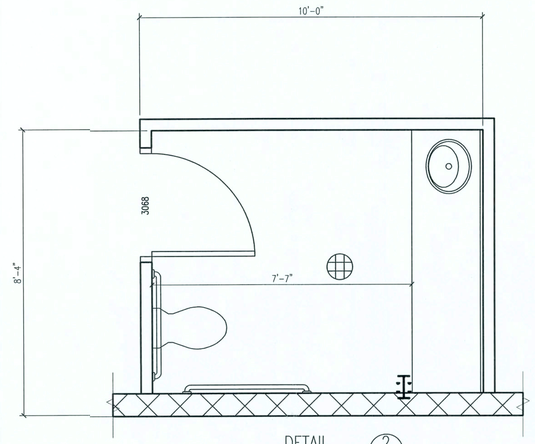
PROJECT NUMBER: PF06-193S
DRAWN BY: D. PRICE
CHECKED BY: G.G.

A-1.0

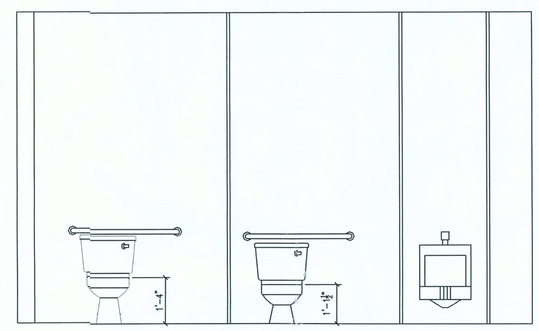
SHEET 1 OF 16




DETAIL 1 A-1.1
SCALE: ½" = 1'-0"




DETAIL 2 A-1.1
SCALE: ½" = 1'-0"




5 BATH SECTION
1/2" = 1'-0"

## ADA ACCESSIBILITY GUIDLINES

(1) DOORS:
DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP.

(2) DOOR HARDWARE:
HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISM, PUSH TYPE MECHANISM, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.

(3) DRINKING FOUNTAINS AND WATER COOLERS:
SPOUTS SHALL BE NO HIGHER THAN 30" MEASURED FROM THE FLOOR OR GROUND SURFACE TO THE SPOUT LOCATION.
FOR SIZE AND ARRANGEMENT SEE ADA TOILET STALL DIAGRAM.

(5) LAVATORIES AND MIRRORS:
LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM APRON.

(4) TOILET STALL:
HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR OTHERWISE COVERED. FAUCETS SHALL BE LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF THE REFLECTING SURFACE NO HIGHER THAN 40" FROM FLOOR.

(6) RAMPS:
THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE LANDING LENG SHALL BE A MINIMUM OF 60" CLEAR. HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1 1/2". GRIPPING SURFACES SHALL BE CONTINUOUS. THE TOP OF HANDRAILS GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 30" AND 34" ABOVE RAMP SURFACE.

(7) CONTROLS AND OPERATING MECHANISMS:
CONTROLS AND MECHANISMS SHALL BE OPERATTED BY ONE HAND AND SHALL REQUIRED TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST.

ISSUED FOR APPROVAL

9/5/07

31-Aug-07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| - | 10-20-06 | ISSUED FOR CONSTRUCTION |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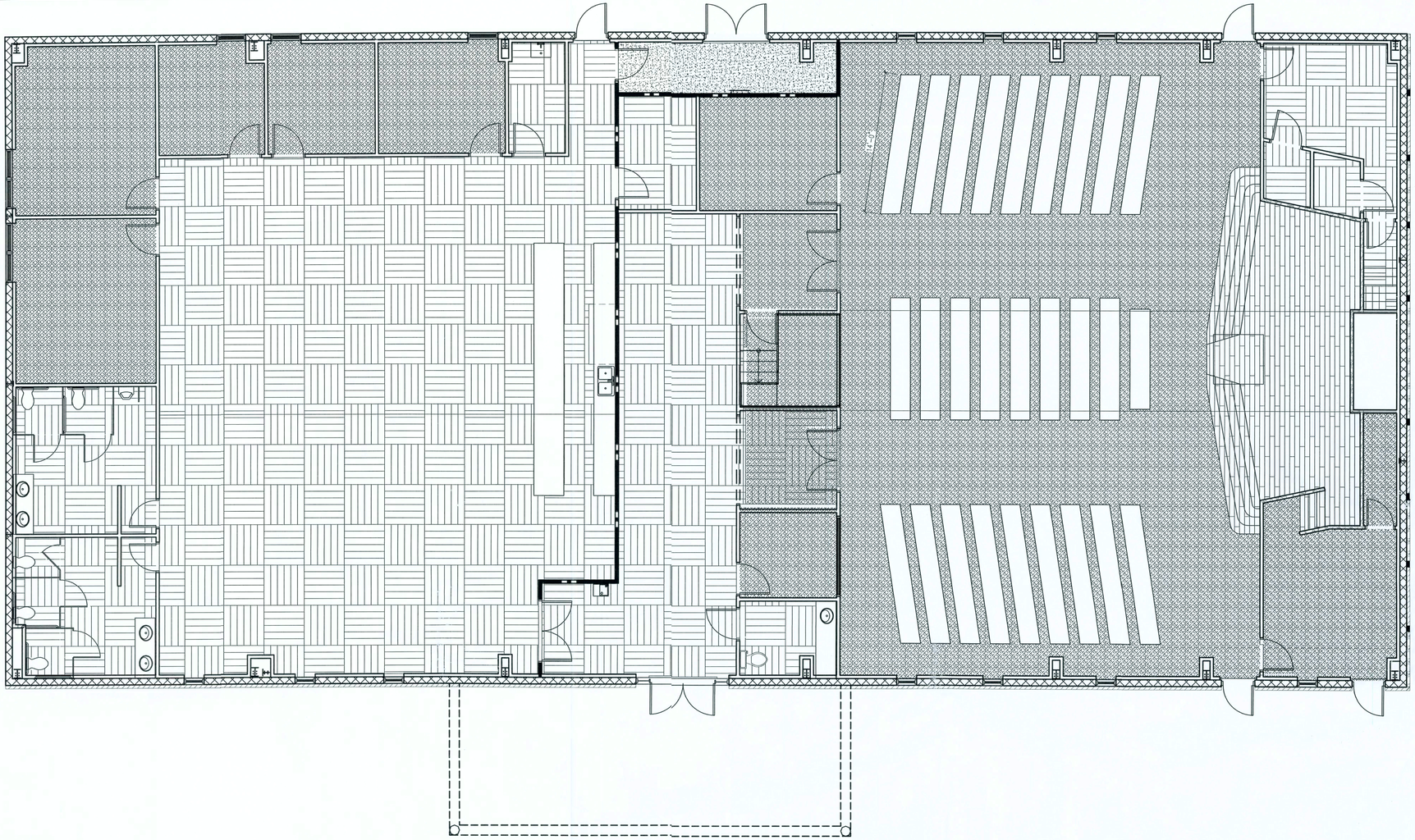
7th ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

FLOOR PLAN SCHEDULES
&
BATH ROOM DETAILS

PROJECT NUMBER: PF06-193S
DRAWN BY: D. PRICE
CHECKED BY: G.G.

A-1.1

SHEET 2 OF 16



| FLOOR FINISH LEGEND |
|---|
| COMMERCIAL GRADE CARPET |
| WOOD FLOORING |
| CERAMIC FLOOR TILE |
| CONCRETE FLOOR |

## DOOR SCHEDULE

| MARK | DOOR SIZE WD | DOOR SIZE HGT | DOOR SIZE THK | FIRE RATING LABEL | NOTES |
|---|---|---|---|---|---|
| 1 | 6'-4" | 6'-10" | 1 3/4" | N/A | -- |
| 2 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 3 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 4 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 5 | 6'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 6 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 7 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 8 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 9 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 10 | 2'-8" | 6'-8" | 1 3/4" | N/A | -- |
| 11 | 2'-8" | 6'-8" | 1 3/4" | N/A | -- |
| 12 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 13 | 6'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 13 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 14 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 15 | 9'-0" | 8'-0" | NA | N/A | FRAMED ARCH OPENING |
| 16 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 17 | 9'-0" | 8'-0" | NA | N/A | FRAMED ARCH OPENING |
| 18 | 6'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 19 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 20 | 3'-0" | 6'-8" | 1 3/4" | 1 HOUR | -- |
| 21 | 3'-0" | 6'-8" | 1 3/4" | 1 HOUR | -- |
| 22 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 23 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 24 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 25 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 26 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 27 | 3'-0" | 6'-8" | 1 3/4" | N/A | -- |
| 28 | 3'-0" | 6'-8" | 1 3/4" | -- | -- |
| 29 | 3'-0" | 6'-8" | 1 3/4" | -- | -- |
| 30 | 6'-0" | 6'-8" | 1 3/4" | 1 HOUR | -- |

## ROOM FINISH SCHEDULE

| ROOM NO | ROOM NAME | WALLS: WALL MATERIAL | WALLS: WALL FINISH | WALLS: WALL COLOR | CEILING: MATL | CEILING: HEIGHT | NOTES | FLOOR: Floor Color | FLOOR: Floor Fin | Base Area |
|---|---|---|---|---|---|---|---|---|---|---|
| 100 | SANCTUARY | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 2517.87 SF |
| 101 | WOMEN'S BATH | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 200.67 SF |
| 102 | MEN'S BATH | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 210.22 SF |
| 103 | CLASSROOM 1 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 238.89 SF |
| 104 | CLASSROOM 2 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 248.44 SF |
| 105 | CLASSROOM 3 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 120.89 SF |
| 106 | CLASSROOM 4 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 120.89 SF |
| 107 | CLASSROOM 5 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 143.56 SF |
| 108 | JANITOR'S CLOSET | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 64.22 SF |
| 109 | CLASSROOM 6 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 159.44 SF |
| 110 | CLASSROOM 7 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 152.23 SF |
| 111 | COMMON AREA | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | Washable ceiling tiles in common area | -- | CERAMIC FLOOR TILE | 2355.00 SF |
| 112 | ENTRANCE AREA | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 803.12 SF |
| 114 | SOUND ROOM | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 82.49 SF |
| 115 | UNISEX BATH | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | Unisex bath to be handicapped accessible | -- | CERAMIC FLOOR TILE | 87.00 SF |
| 116 | MOTHER'S ROOM | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 74.11 SF |
| 118 | STAGE | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 328.18 SF |
| 119 | CHANGING ROOM 1 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 26.41 SF |
| 120 | CHANGING ROOM 2 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 26.41 SF |
| 121 | STAIRWAY | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 51.94 SF |
| 122 | BAPTISTRY | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 45.11 SF |
| 123 | STORAGE 2 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 40.94 SF |
| 124 | STORAGE 1 | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 89.44 SF |
| 125 | UTILITY ROOM | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | CERAMIC FLOOR TILE | 115.56 SF |
| 126 | PASTOR'S STUDY | 5/8" G.W.B. | SEMI GLOSS PAINT | -- | ACCOUSTICAL CEILING TILE | 10'-0" | -- | -- | COMMERCIAL GRADE CARPET | 223.76 SF |

31-Aug-07

## WINDOW SCHEDULE

| MARK | SIZE WIDTH | SIZE HEIGHT | TYPE | MATERIAL | NOTES |
|---|---|---|---|---|---|
| 1 | 2'-0" | 7'-0" | -- | -- | -- |
| 2 | 2'-0" | 7'-0" | -- | -- | -- |
| 3 | 2'-0" | 7'-0" | -- | -- | -- |
| 4 | 2'-0" | 7'-0" | -- | -- | -- |
| 5 | 2'-0" | 7'-0" | -- | -- | -- |
| 6 | 2'-0" | 7'-0" | -- | -- | -- |
| 7 | 2'-0" | 7'-0" | -- | -- | -- |
| 8 | 3'-0" | 6'-0" | -- | -- | -- |
| 9 | 3'-0" | 6'-0" | -- | -- | -- |
| 10 | 3'-0" | 6'-0" | -- | -- | DOUBLE PANE |
| 11 | 3'-0" | 6'-0" | -- | -- | DOUBLE PANE |
| 12 | 3'-0" | 6'-0" | -- | -- | DOUBLE PANE |
| 13 | 3'-0" | 6'-0" | -- | -- | DOUBLE PANE |
| 14 | 3'-0" | 6'-0" | -- | -- | DOUBLE PANE |
| 15 | 2'-0" | 7'-0" | -- | -- | DOUBLE PANE |
| 16 | 2'-0" | 7'-0" | -- | -- | DOUBLE PANE |
| 17 | 2'-0" | 7'-0" | -- | -- | DOUBLE PANE |
| 18 | 8'-0" | 4'-0" | -- | -- | ONE-WAY GLASS |

ISSUED FOR APPROVAL

9/5/07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| -- | -- | #### |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7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

FINISH PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

A-1.2

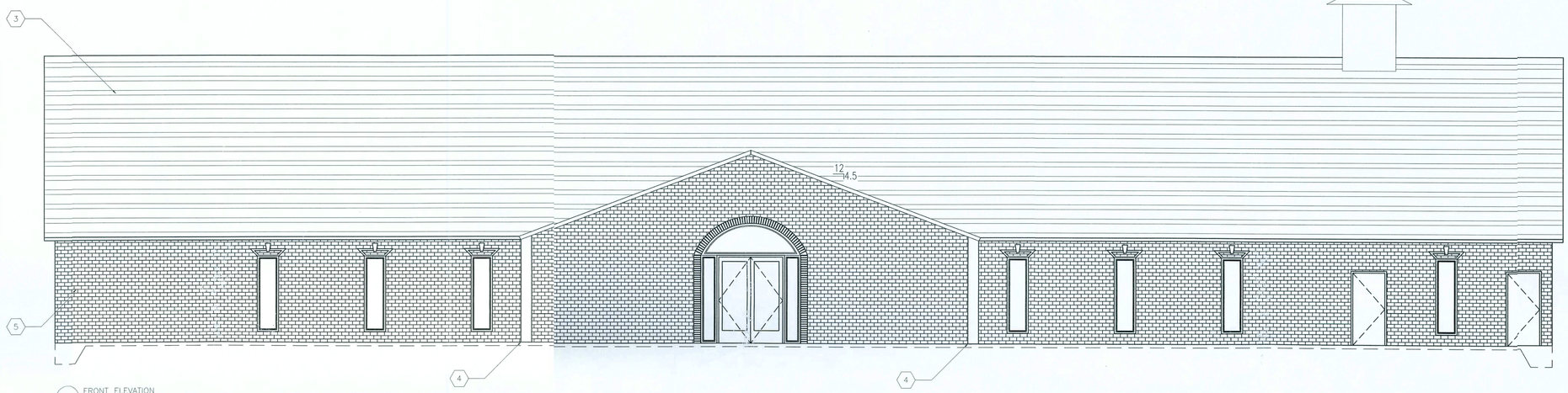
SHEET 3 OF 16

## SHEET KEYNOTES

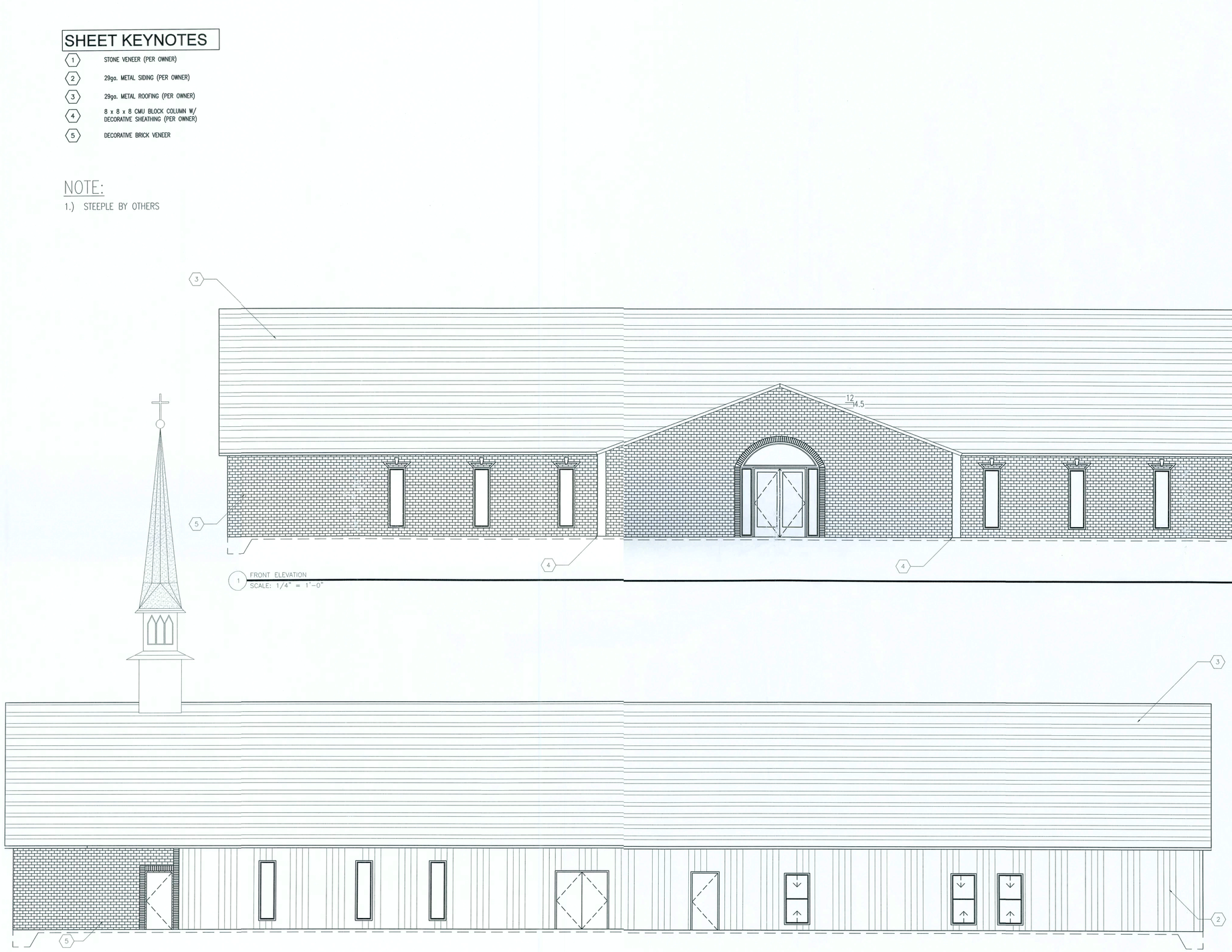
1. STONE VENEER (PER OWNER)
2. 29ga. METAL SIDING (PER OWNER)
3. 29ga. METAL ROOFING (PER OWNER)
4. 8 x 8 x 8 CMU BLOCK COLUMN W/ DECORATIVE SHEATHING (PER OWNER)
5. DECORATIVE BRICK VENEER

NOTE:

1.) STEEPLE BY OTHERS




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




2 REAR ELEVATION
SCALE: 1/4" = 1'-0"

# ISSUED FOR APPROVAL

9/5/07

31-Aug-07

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7th ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

ELEVATIONS

PROJECT NUMBER: PF06-193S
DRAWN BY: D. PRICE
CHECKED BY: G.G.

A-2.0

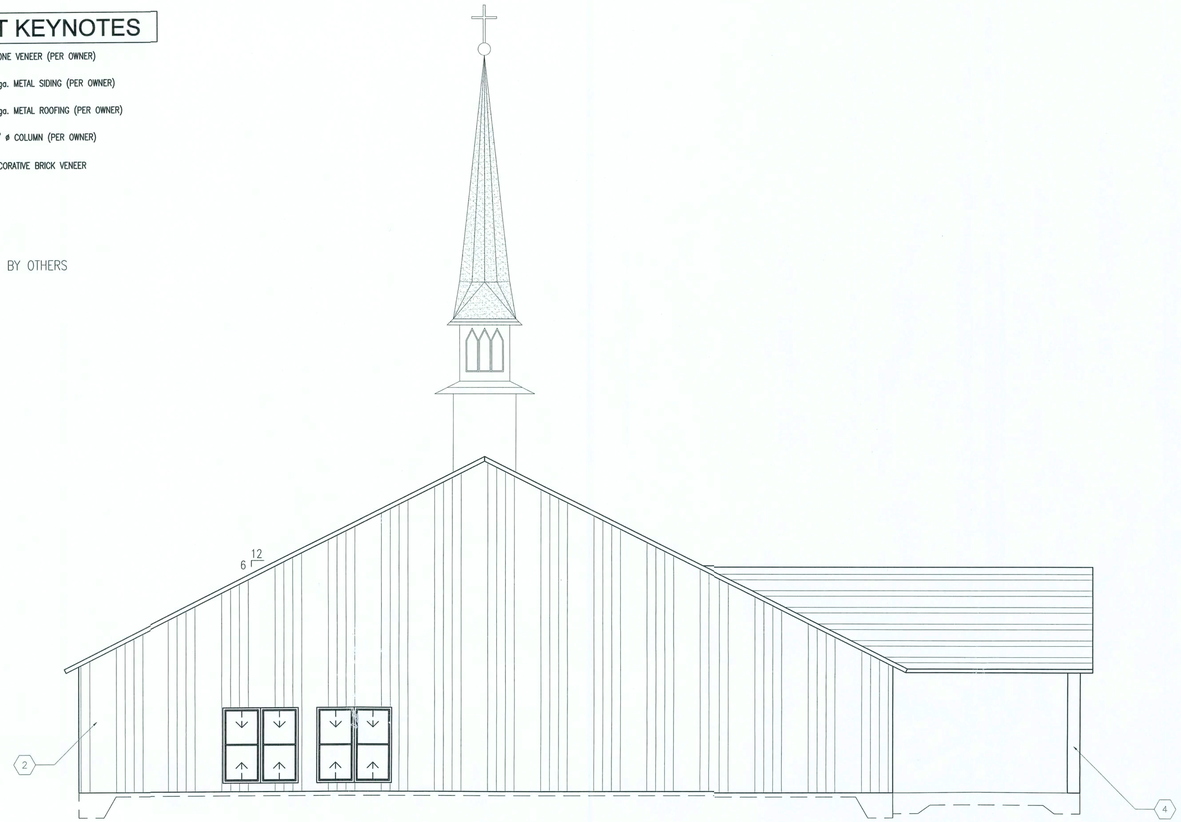
SHEET 4 OF 16

## SHEET KEYNOTES

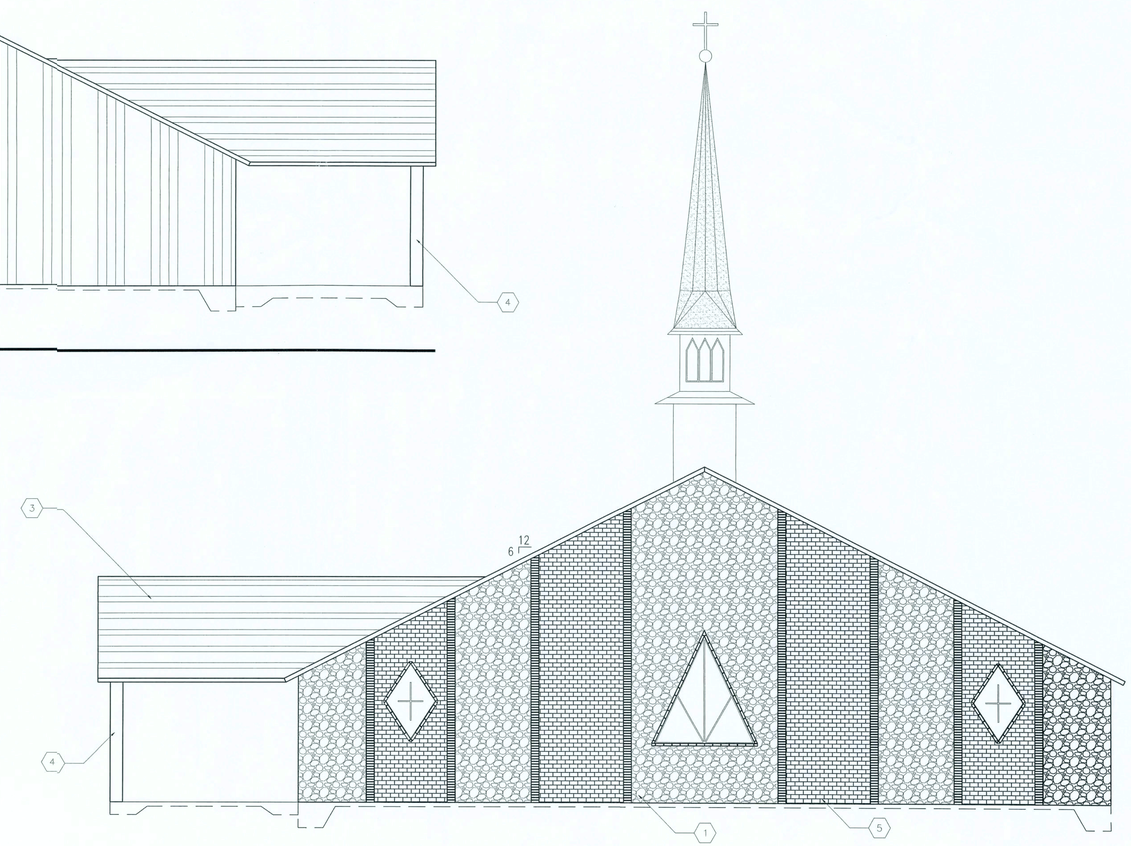
1. STONE VENEER (PER OWNER)
2. 29ga. METAL SIDING (PER OWNER)
3. 29ga. METAL ROOFING (PER OWNER)
4. 12" ø COLUMN (PER OWNER)
5. DECORATIVE BRICK VENEER

NOTE:

1.) STEEPLE BY OTHERS




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




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

# ISSUED FOR APPROVAL

31-Aug-07

9/15/10

| REV # | DATE | REVISION NOTES |
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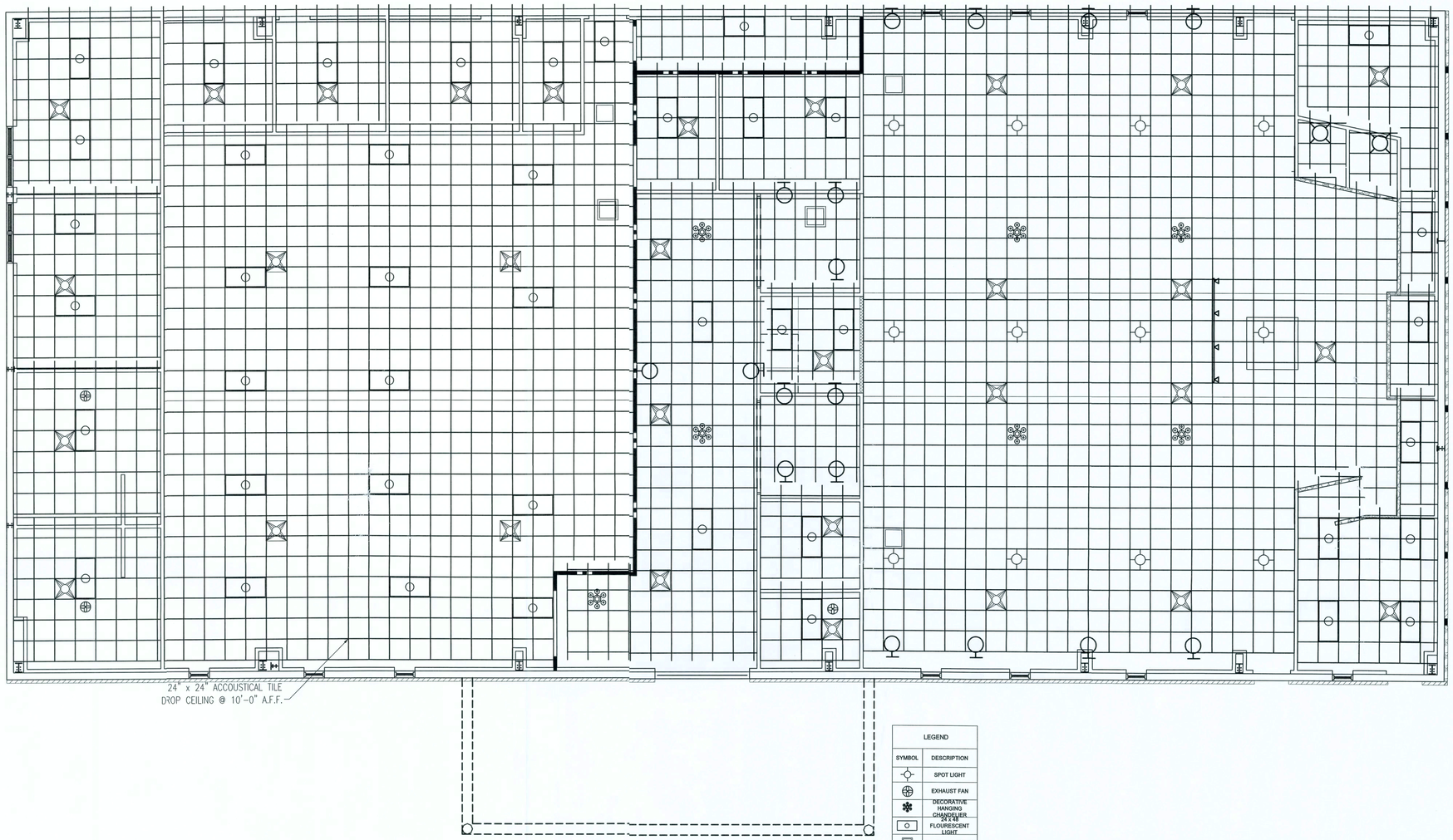
ELEVATIONS

PROJECT NUMBER: PF06-193S
DRAWN BY: ####
CHECKED BY: G.G.

A-2.1

SHEET 5 OF 16




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

| LEGEND | |
|---|---|
| SYMBOL | DESCRIPTION |
| | SPOT LIGHT |
| | EXHAUST FAN |
| | DECORATIVE HANGING CHANDELIER |
| | 24 x 48 FLOURESCENT LIGHT |
| | 24 x 24 AIR RETURN |
| | 24 x 24 AIR VENT |
| | 48" CEILING FAN |
| | |

NOTES:

1.) CEILING TILES IN COMMON AREA TO BE OF WASHABLE TYPE.
2.) LEGEND QUANTITIES ARE FOR CEILING MOUNTED OBJECTS ONLY. QUANTITIES MAY BE DIFFERENT ON OTHER ELECTRICAL SHEETS.

ISSUED FOR APPROVAL

9/5/07

31-Aug-07

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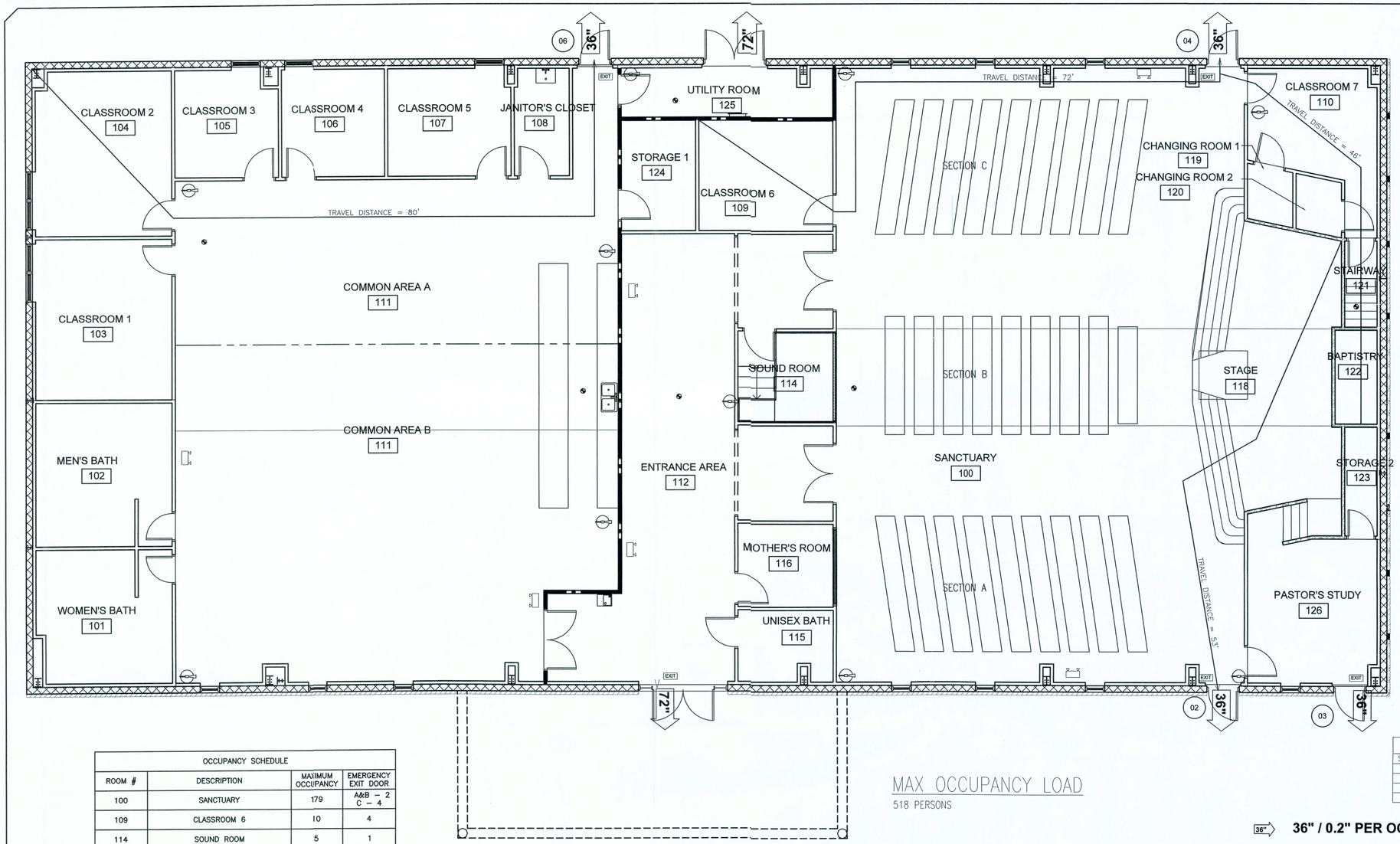
7th ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

REFLECTED CEILING PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: D. PRICE
CHECKED BY: G.G.

A-3.0

SHEET 6 OF 16




LIFE SAFETY PLAN

SCALE: $\frac{3}{16}$" = 1'-0"

| OCCUPANCY SCHEDULE | | | |
|---|---|---|---|
| ROOM # | DESCRIPTION | MAXIMUM OCCUPANCY | EMERGENCY EXIT DOOR |
| 100 | SANCTUARY | 179 | A&B – 2<br>C – 4 |
| 109 | CLASSROOM 6 | 10 | 4 |
| 114 | SOUND ROOM | 5 | 1 |
| 116 | MOTHER'S ROOM | 5 | 1 |
| 118 | STAGE | 21 | 3 |
| 110, 119, 120, & 121 | CLASSROOM 7, CHANGING ROOMS & STAIRWAY COMBINED | 17 | 4 |
| 122 | BAPTISTRY | 3 | 4 |
| 123 | STORAGE 2 | 1 | 3 |
| 124 | STORAGE 1 | 1 | 6 |
| 125 | UTILITY ROOM | 1 | 6 |
| 126 | PASTOR'S STUDY | 14 | 3 |
| TOTAL MAXIMUM OCCUPANCY OF BUILDING ON THE SANCTUARY SIDE OF THE FIREWALL | | 257 | |
| 103 | CLASSROOM 1 | 15 | 6 |
| 104 | CLASSROOM 2 | 16 | 6 |
| 105 | CLASSROOM 3 | 8 | 6 |
| 106 | CLASSROOM 4 | 8 | 6 |
| 107 | CLASSROOM 5 | 9 | 6 |
| 108 | JANITORS CLOSET | 1 | 6 |
| 111 | COMMON AREA | 336 | A – 6<br>B – 1 |
| TOTAL MAXIMUM OCCUPANCY OF BUILDING ON THE COMMON AREA SIDE OF THE FIREWALL | | 408 | |
| TOTAL BUILDING MAXIMUM OCCUPANCY | | 655 | |

31-Aug-07

MAX OCCUPANCY LOAD

518 PERSONS

| SCHEDULE | | | |
|---|---|---|---|
| SYMBOL | NAME | REMARK | QUANITY |
| | EXIT SIGN | LED | 6 |
| | EMERGENCY LIGHTS | - | 7 |
| | FIRE EXTINGUISHER | ABC TYPE | 10 |
| | SMOKE DETECTOR | AC/BATT | 8 |

36" / 0.2" PER OCCUPANT = 180 OCCUPANTS

72" / 0.2" PER OCCUPANT = 360 OCCUPANTS

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| — | — | #### |


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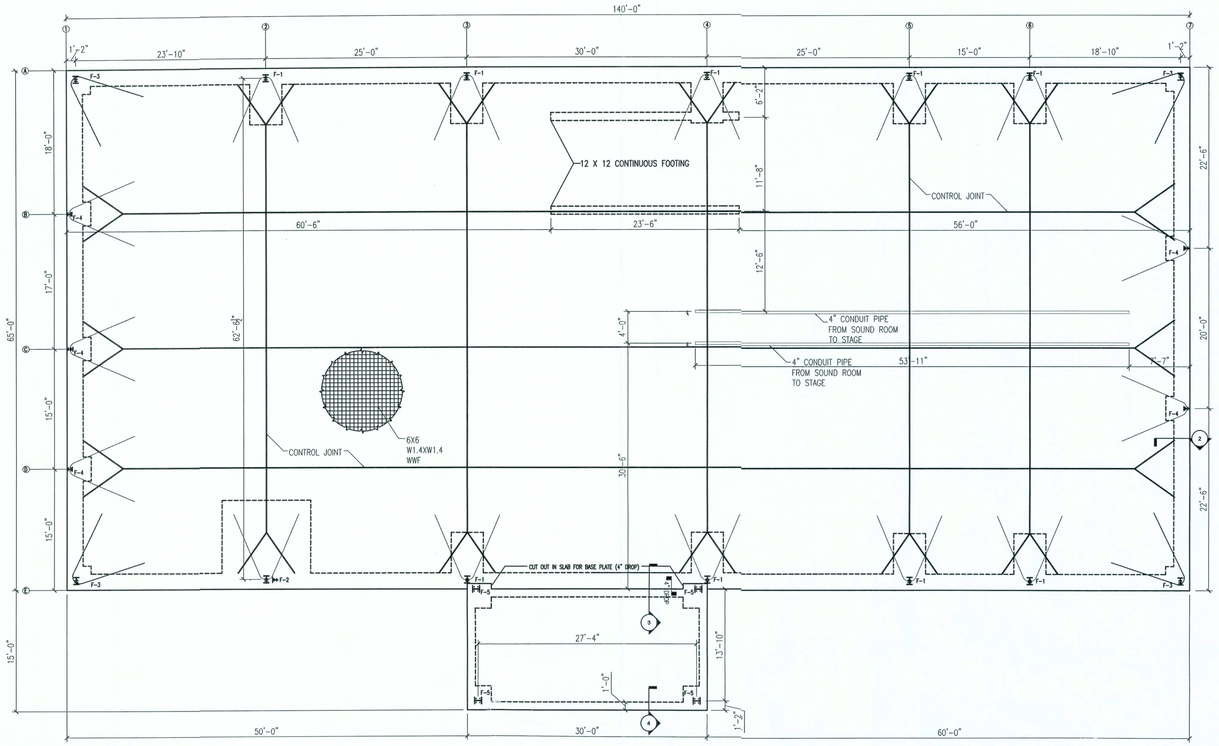
LIFE SAFETY

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

A-4.0

SHEET 7 OF 16

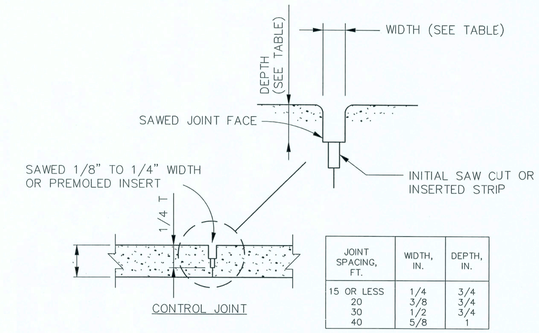



## NOTES:

1. ALL MATERIALS USED TO PRODUCE CONCRETE AND ADMXTURES FOR CONCRETE SHALL COMPLY WITH ACI 318.
2. CONCRETE AGGREGATES SHALL CONFORM TO ACTM C15).
3. CONCRETE SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI.

FOUNDATION PLAN

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

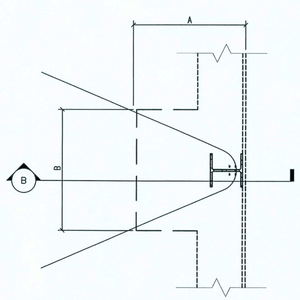



| JOINT SPACING, FT. | WIDTH, IN. | DEPTH, IN. |
|---|---|---|
| 15 OR LESS | 1/4 | 3/4 |
| 20 | 3/8 | 3/4 |
| 30 | 1/2 | 3/4 |
| 40 | 5/8 | 1 |

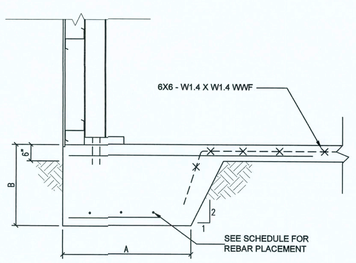
CONTROL JOINT (C.J.)

FOOTING SCHEDULE

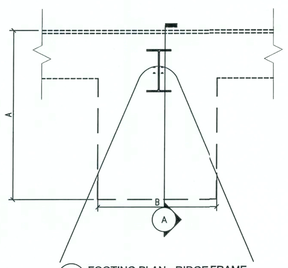
| FOOTING MARK | FOOTING DIMENSIONS A | B | C | DETAIL MARK | SECTION MARK | BOTTOM REBAR | TOP REBAR | ANCHOR BOLT DIAMETER | TOTAL LENGTH | EMBEDMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| F-1 | 7'-0" | 4'-0" | 2'-6" | A | 1-A | (5) #5 E.W. | (5) #5 E.W. | 0'-0 3/4" | 1'-6" | 1'-0" |
| F-2 | 11'-0" | 11'-0" | 2'-6" | A | 1-A | #5 @ 12" O/C/. | #5 @ 12" O/C/. | 0'-1" | 1'-6" | 1'-6" |
| F-3 | 3'-0" | 3'-0" | 2'-6" | B | 1-B | (5) #5 E.W. | (5) #5 E.W. | 0'-0 3/4" | 1'-6" | 1'-0" |
| F-4 | 3'-0" | 3'-0" | 2'-6" | B | 1-B | (3) #5 E.W. | (3) #5 E.W. | 0'-0 5/8" | 1'-6" | 1'-0" |
| F-5 | 3'-0" | 3'-0" | 2'-6" | B | 1-B | (3) #5 E.W. | (3) #5 E.W. | 0'-0 3/4" | 1'-6" | 1'-0" |



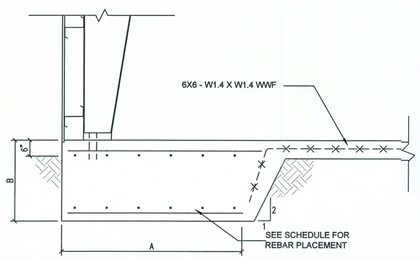

1-B FOOTING PLAN - END WALL
3/4" = 1'



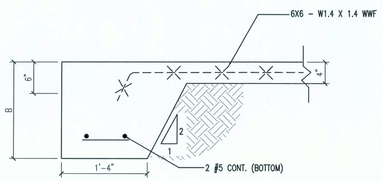

B FOOTING DETAIL
1/2" = 1'



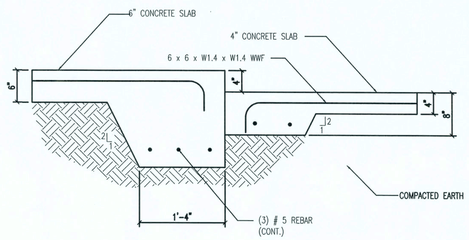

1-A FOOTING PLAN - RIDGE FRAME
3/4" = 1'



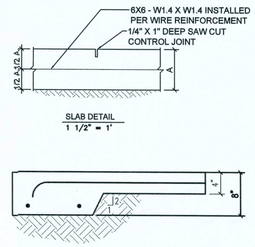

A DETAIL
1/2" = 1'-0"




2 DETAIL
1/8" = 1'-0"




3 DETAIL
1" = 1'




SLAB DETAIL
1 1/2" = 1'

4 DETAIL
1" = 1'

31-Aug-07

# ISSUED FOR APPROVAL

9/5/07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| — | — | ##### |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Gary Gill, PE 51942
Auth. # 9461
STRUCTURAL/CIVIL ENGINEERS

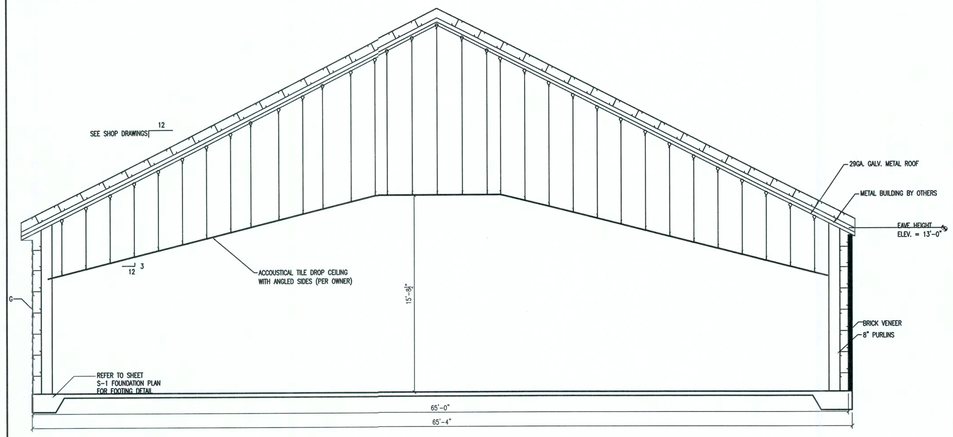

7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

FOUNDATION PLAN

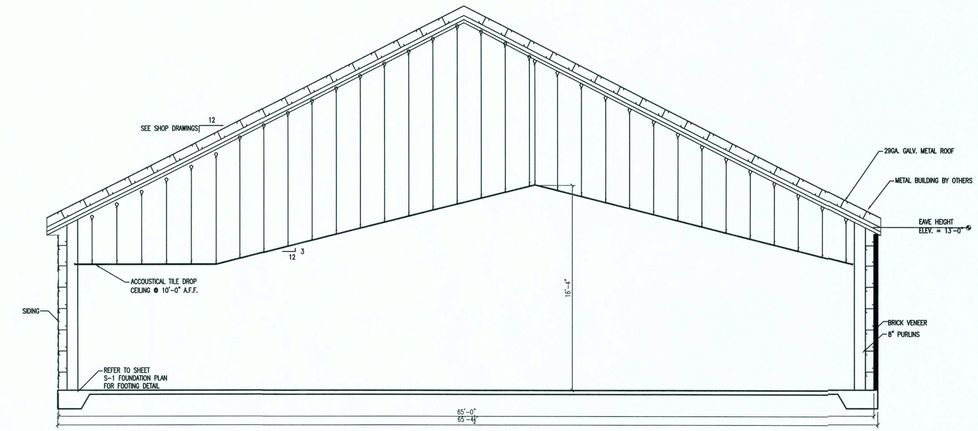
PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

S-1

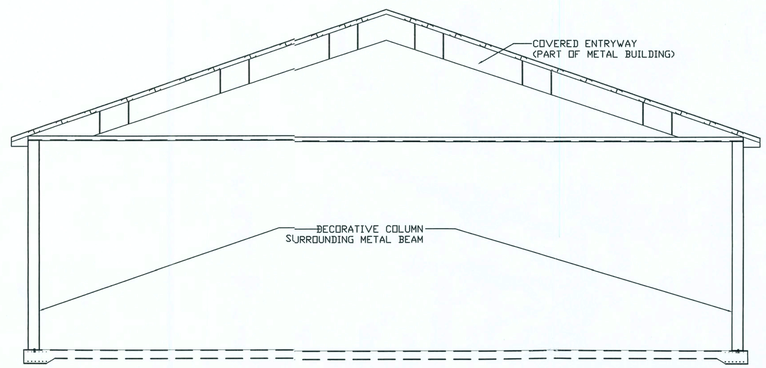
SHEET 8 OF 16



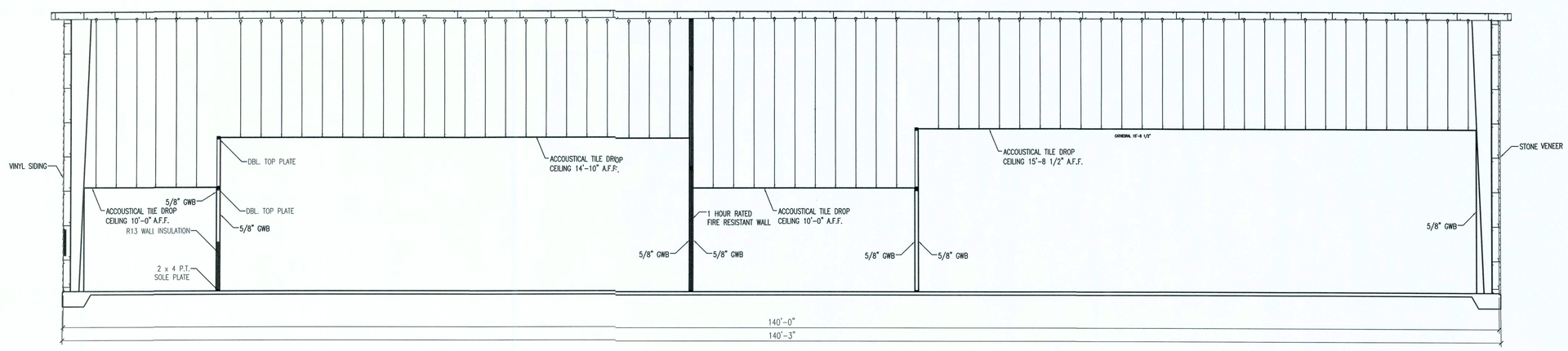

B SECTION -SANCTUARY
1/4" = 1'




A COMMON AREA
1/4" = 1'




D COVERED ENTRYWAY
1/4" = 1'




C SECTION - LONGITUDINAL
3/16" = 1'-0"

ISSUED FOR APPROVAL 9/5/07

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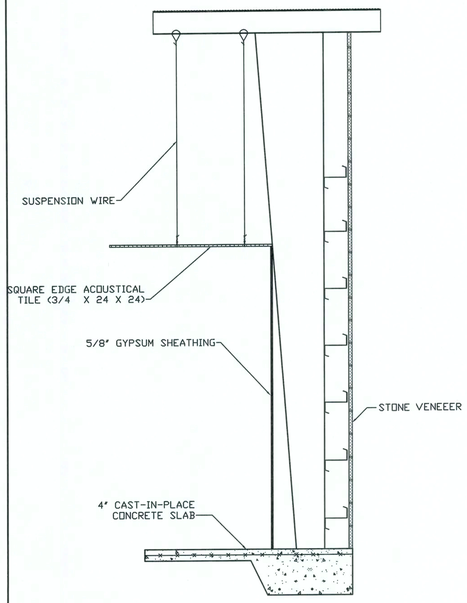
7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

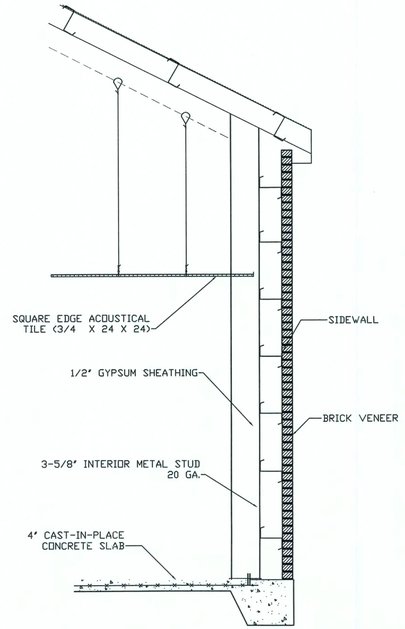
SECTIONS

PROJECT NUMBER PF06-193S
DRAWN BY -
CHECKED BY G.G.

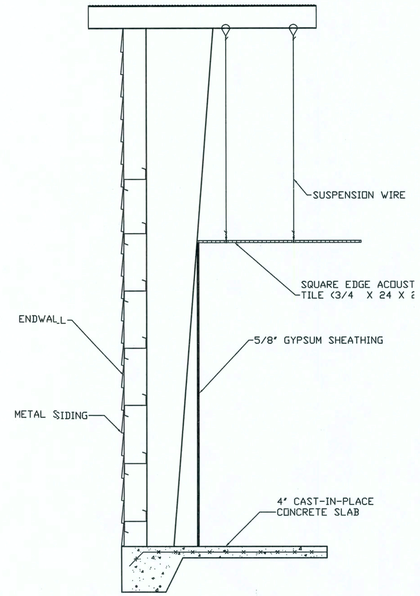
S-2.0



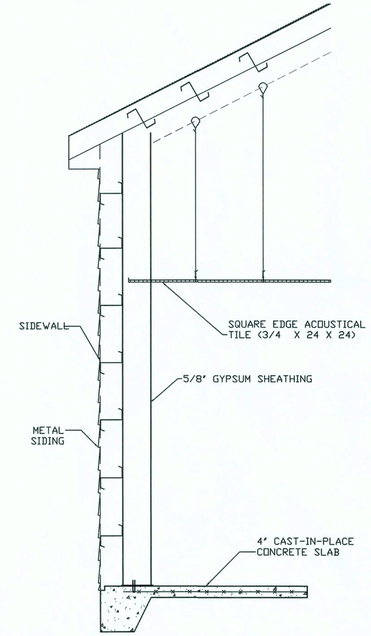

E SECTION ENDWALL
1/2" = 1'



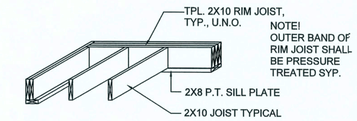

F SECTION SIDEWALL
1/2" = 1'



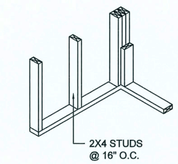

G SECTION ENDWALL
1/2" = 1'



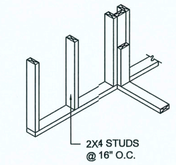

H SECTION SIDEWALL
1/2" = 1'



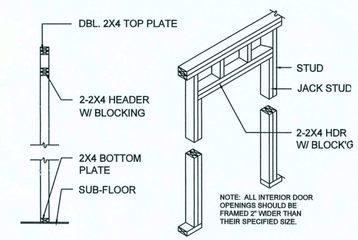

TYPICAL 1st FLOOR FRAMING
NOTE: SEE PLANS FOR SIZE & SPACING




WALL CORNER




WALL INTERSECTION




INTERIOR WALL DETAILS

## GENERAL NOTES

CONCRETE

UNLESS OTHERWISE NOTED ON THE DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS.....3"
PILE CAPS.....SEE TYPICAL DETAIL
GRADE BEAMS.....3"
COLUMNS AND PEDESTALS (OVER VERTICAL REINF).....2"
SLABS AND WALLS (EXPOSED TO EARTH, LIQUID OR WEATHER).....2"
SLABS AND WALLS (NOT EXPOSED TO EARTH, LIQUID OR WEATHER).....¾"
CANOPY SLABS.....1 ½"
BEAMS (OVER MAIN REINFORCING).....1 ½"
SLABS ON GRADE.....2" FROM TOP

ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE
WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACEMENT OF CONCRETE.

UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:

WELDED WIRE FABRIC.....WIRE SPACING PLUS 6"
REINFORCING BARS.....40 BAR DIAMETERS

ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTED.

FOUNDATIONS

IF FOOTING EVALUATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, THE ENGINEER
SHALL BE NOTIFIED.

STEPS IN WALL FOOTINGS SHALL NOT EXCEED A SLOPE OF (1) VERTICAL TO TWO (2) HORIZONTAL

PROVIDE A MINIMUM OF TWO #4 BARS IN TOP OF CONTINUOUS WALL FOOTINGS AT DOOR AND OTHER OPENINGS,
4'-0" LONGER THAN THE OPENING.

SPECIFICATIONS

CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301. "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (LATEST EDITION). EXCEPT AS MODIFIED BY REQUIREMENTS OF THE CONTRACT DOCUMENTS.

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AWS D1.1" "STRUCTURAL WELDING CODE", EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

A GEOTECHNICAL TESTING AND INSPECTION FIRM SHALL BE EMPLOYED TO PERFORM A SOIL SURVEY FOR SATISFACTORY AOIL MATERIALS, SAMPLING AND TESTING FOR QUALITY CONTROL AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS PROJECT. ALL EARTHWORK OPERATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL TESTING FIRM.

## CONCRETE NOTES

1. CONCRETE FOOTINGS AND SLABS
   - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSF IN 28 DAYS.
   - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 40. WELDED WIRE MESH SHALL CONFORM TO ASTM A185.
   - PROVIDE A MINIMUM COVER OF 3" FOR REINFORCING STEEL WHEN THE CONCRETE IS PLACED DIRECTLY AGAINST THE GROUND. CONCRETE EXPOSED TO EARTH OR WEATHER SHALL HAVE A MINIMUM COVER OF 1 1/2" INCHES.
   - WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF 65,000 psi.
   - MINIMUM WWF FOR SLAB ON GRADE SHALL BE 6x6-W1.4x1.4
   - A VAPOR RETARDER CONSISTING OF 6 MIL MINIMUM POLYETHYLENE WITH JOINTS LAPPED 6 INCHE AND SEALED WITH 2" APPROVED TAPE OR MASTIC, OR OTHER APPROVED MATERIALS HAVING A MAXIMUM PERM RATIING OF 0.5
2. SOIL PREPARATION AND PROPERTIES
   - AREA UNDER FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATTERS SHALL BE REMOVED TO THEIR CONSTRUCTION.
   - FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL
   - ALLOWABLE BEARING PRESSURE = 1500 psf
3. CONCRETE SLAB SHALL HAVE A MINIMUM ALLOWABLE SLOPE TO ALLOW FOR WATER DRAINAGE FROM SHOWERS.

SUPPLEMENTARY NOTES

PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

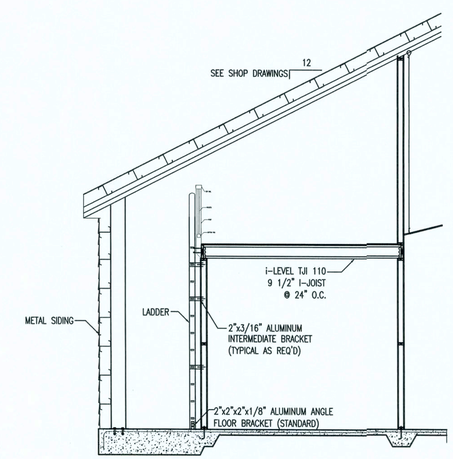
EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3 ¼"Ø MINIMUM FOR ¾" BOLTS IN CONCRETE, 5 GROUTED MASONRY. HILTI KWIK BOLT II OR EQUAL.

EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL, HY150 CARTRIDGE SYSTEM BY HILTI (HILTI RE500, IF HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 12 BAR DIAMETERS MINIMUM, UON. HOLES SHALL BE ¼" LARGER THAN REBAR SIZE, AND THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT.

GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT / ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW.

CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.




I LOFT SECTION
1/8" = 1'-0"

31-Aug-07

ISSUED FOR APPROVAL

7/5/07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| — | — | ##### |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STRUCTURAL/CIVIL ENGINEERS

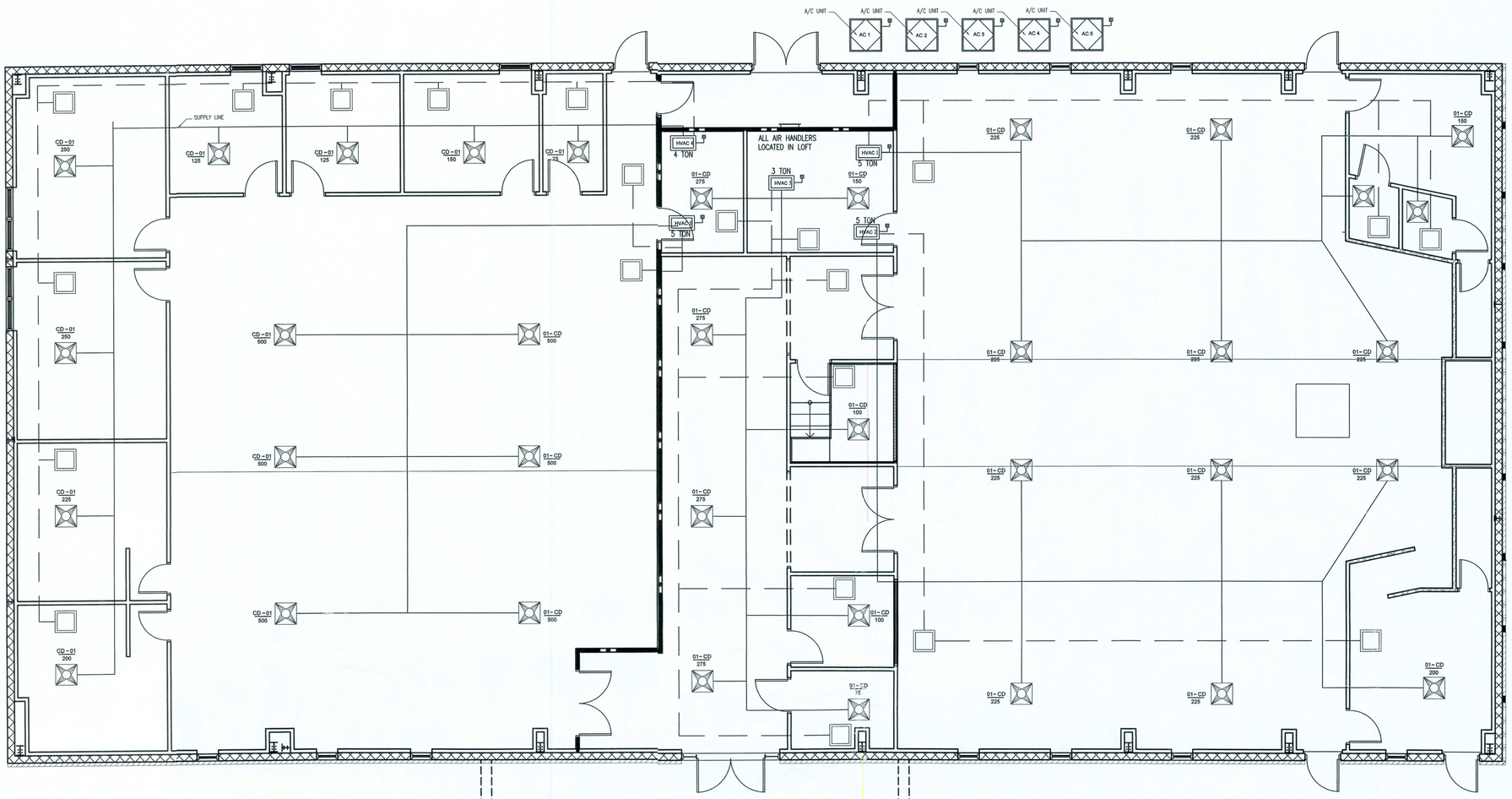

7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

DETAILS

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

S-2.1

SHEET 10 OF 16




| SPLIT SYSTEM – ELECTRIC HEAT | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QUANTITY | TAG | GOODMAN MODEL #'S INDOOR UNIT/OUTDOOR UNIT ACU/AHU | NOMINAL TONS | TOTAL CFM | OA CFM | COIL EAT DB/WB | ESP | MAX FAN HP | TOTAL COOL MBH | SENS. COOL MBH | SEER | HEAT KW 240V | ELEC NO. OF STAGES | MAX CU WEIGHT LBS | NOTES | ACCESSORIES |
| 3 | ACU/AHU-1 | GPC13060H21A/ ARUF48601 6 | 5 | 2000 | ? | 80/67 | 05 | 3/4 | 44.4 | 21.0 | 13.0 | 10 | 2 | 130 | 1,2,3,4,5 | 1,2,3,4,5 |
| 1 | ACU/AHU-2 | GPC13048H21A/ ARUF48601 6 | 4 | 1600 | ? | 80/67 | 05 | 3/4 | 44.4 | 21.0 | 13.0 | 10 | 2 | 130 | 1,2,3,4,5 | 1,2,3,4,5 |
| 1 | ACU/AHU-2 | GPC13036H21A/ ARUF48601 6 | 3 | 1600 | ? | 80/67 | 05 | 3/4 | 44.4 | 21.0 | 13.0 | 10 | 2 | 130 | 1,2,3,4,5 | 1,2,3,4,5 |

NOTES:
1. COOLING CAPACITIES BASED ON 95° F db AIR ENTERING OUTDOOR UNIT.
2. FAN COIL UNIT SHALL HAVE A SINGLE POINT POWER CONNETION (FAN&HEAT).
3. COOLING CAPACITIES SCHEDULED ARE MINIMUM VALUES. ALTERNATIVE EQUIPTMENT MUST MEET SCHEDULED VALUES.
4. SEER VALUE IS BASED ON ARI STANDARD 210.
5. ELECTRIC HEAT SHALL BE MOUNTED IN THE REHEAT POSITION.

ACCESSORIES
1. PROGRAMMABLE 7 DAY THERMOSTAT, WITH NIGHT SETBACK (55° HEATING, 85° COOLING), AUTO CHANGEOVER FOR HEAT–COOL, 5 DEGREE DEADBAN ADJUSTMENT, BETWEEN HEAT AND COOL OPERATION
2. PROVIDE (2) SETS OF STANDARD 1" THICK PLEATED THROW–AWAY FILTERS. (1) DURING CONSTRUCTION, (1) AFTER CONSTRUCTION COMPLETION.
3. PROVIDE FILTER DRYER
4. PROVIDE LONG LINE REFRIGERATION LINE SET WHERE REQUIRED BY MANUFACTURER,– LINIS SHALL BE SIZED BY MANUFACTURER TO MAINTAIN SCHEDULED CAPACITY, SHOW MANUFACTURER'S RECOMMENDED LINE SET SIZE IN SUBMITTA.S. MANUFACTURER SHALL DETERMINE IF LONG LINE APPLICATION KIT IS REQUIRED.
5. LOW AMBEINT OPERATION KIT TO ALLOW OPERATION DOWN TO 42 DEGREES

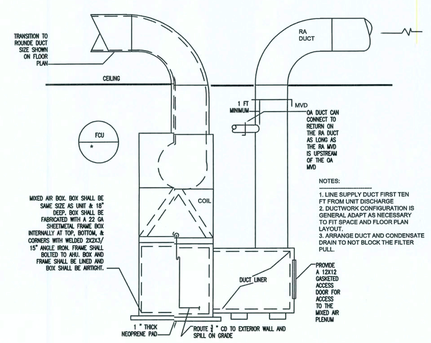
BASIS OF DESIGN: AS NOTED:
EQUAL BY: TRANE; YORK; LENNOX

CONTRACTOR SHALL CAREFULLY COORDINATE ALL RECESSED PROJECTOR LIGHTS WITH ALL DUCTWORK ABOVE CEILING PRIOR TO ANY DUCTWORK FABRICATION.

NOTE:
These plans are schematic in nature and are intended to establish size, general routing and location, and performance and are not intended to show all possible conditions. All work shall be fully coordinated with other trades to insure the installation of a complete, functional system. The G.C. and Mechanical Contractor Provide all labor, equipment, apurtenances and materials necessary, and perform all operations required for the installation of complete, functional mechanical systems as outlined on the drawings and described in the specifications.

DUCT LEGEND

| | |
|---|---|
| | SUPPLY |
| | RETURN |




NOTES:
1. LINE SUPPLY DUCT FIRST TEN FT FROM UNIT DISCHARGE
2. DUCTWORK CONFIGURATION IS GENERAL, ADAPT AS NECESSARY TO FIT SPACE AND FLOOR PLAN LAYOUT.
3. ARRANGE DUCT AND CONDENSATE DRAIN TO NOT BLOCK THE FILTER PULL.

VERTICAL FCU DETAIL FCU – 1,2
SCALE– NTS;

## GENERAL MECHANICAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION CODE AND ALL OPTION OF A COMPLETE SYSTEM IN WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS, ASHRAE, NFPA 90A, 90B, 91, AND ANSI B-9.1 MECHANICAL REFRIGERATION
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS, AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. THE CONTRACTOR SHALL SUPPLY THE ENGINEER/ARCHITECT WITH AS-BUILT DRAWINGS UPON COMPLETION OF THIS PROJECT.
5. CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWING FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
6. ALL MATERIAL SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
7. ALL AIR CONDITIONING DUCT SHALL BE OF 1-1/2" STANDARD DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON THE VAPOR BARRIER. ALL FLEX TO BE R-8.
8. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
9. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
10. ALL AIR DEVICES (DIFFUSERS, REGISTERS, AND GRILLS) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ENGINEER/ARCHITECT. DEVICES SHALL BE TITUS, METALAIRE, AND AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
11. THERMOSTAT SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE, CARRIER OR EQUAL.
12. REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COOPER SOLDER-JOINT TYPE FITTINGS. USE 95/5 SOLDER. REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER RECOMMENDATIONS.
13. ARMAFLEX 3/4" INSULATION SHALL BE USED FOR SUCTION LINES, FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
14. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED WITURNING VANES. PROVIDE 45 DEGREES BRANCH TAKE-OFF AS PER BRANCH DUCT TAKE-OFF DETAIL.
15. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO ACCEPTANCE BY OWNER.
16. PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING.
17. PROVIDE TYPE "B" FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT O/A INTAKES. PROVIDE RADIATION DAMPERS IN RATED CEILING FOR ALL CEILING OPENINGS. CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY.
18. HVAC CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICE, DAMPERS, AHU'S AND FANS. THE TAB SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS AND LEAVING AND ENTERING AIR TEMPERATURE FROM THE SUPPLY GRILLS AND EVAPORATORS.
19. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER/ARCHITECT BY INSTALLATION.
20. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 50/50.
21. MECHANIC PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH., PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
22. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK PARTITION, AIR TRANSFER DUCTS MUST BE INSTALLED.
23. REFER TO PLUMBING PLAN FOR CONDENSATE PIPING.
24. IF PROJECT IS A REMODEL OF AN EXISTING BUILDING, THE CONTRACTOR SHALL VISIT JOB SITE PRIOR TO CONSTRUCTION AND COORDINATE ALL FIELD CONDITIONS. ENGINEER AND/OR ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
25. CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND A SUSTAINED 200 MPH WIND WITH A GUST FACTOR OF 30%. PROVIDE A LISTED PRE-ENGINEERED ASSEMBLY, OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE CERTIFICATION OF ROOF MOUNTING.
26. PROVIDE ALL NECESSARY CONTACTS, RELAYS, ETC., FOR A COMPLETE OPERATING A/C SYSTEM.

ISSUED FOR APPROVAL

6
9/5/07

31-Aug-07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| — | — | #### |


P.O. Box 187
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Gary Gill, PE 51942
Auth. # 9461
STRUCTURAL/CIVIL ENGINEERS

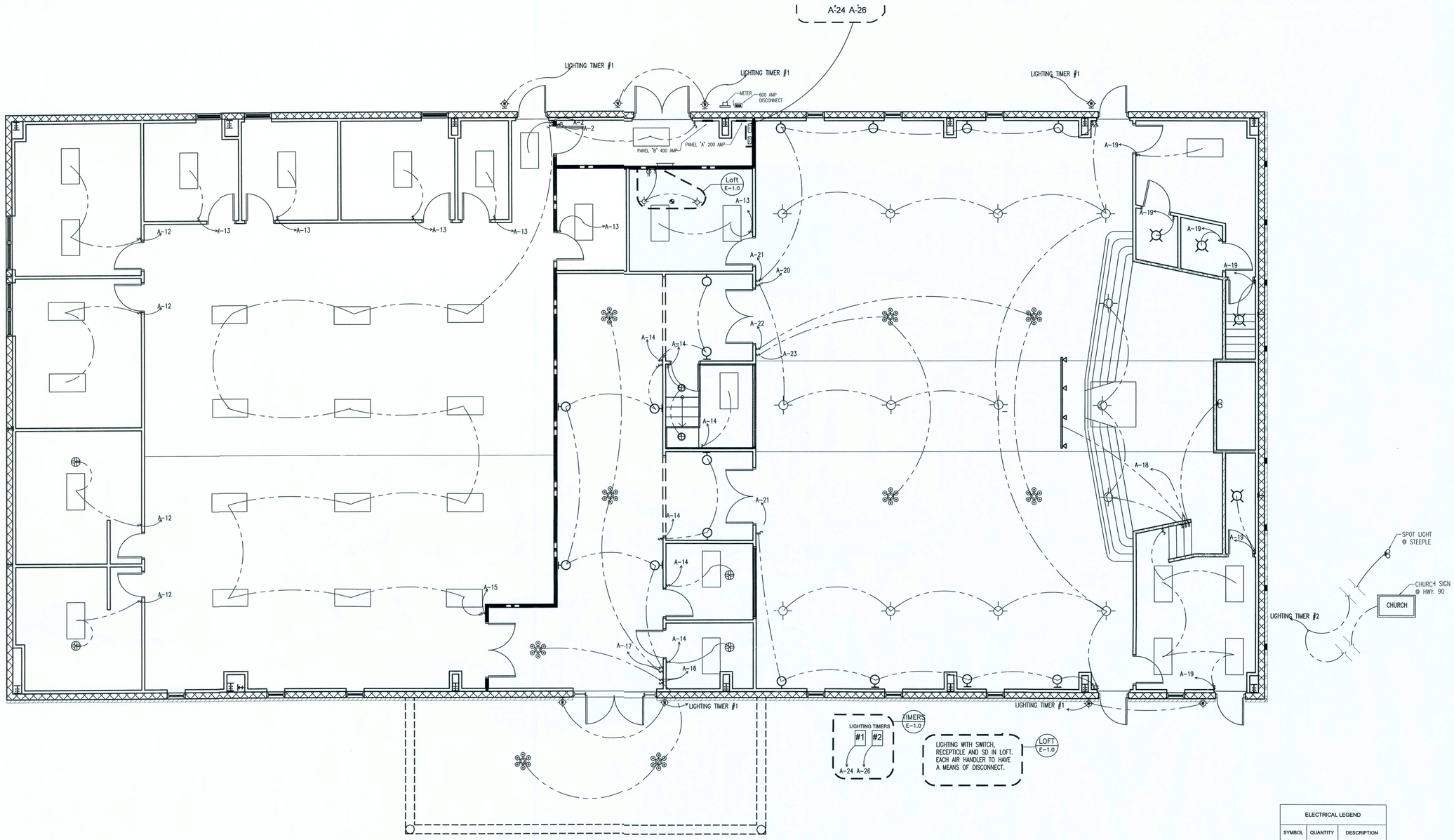

7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

MECHANICAL PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

M-1

SHEET 11 OF 16




LIGHTING PLAN

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

| ELECTRICAL LEGEND | | |
|---|---|---|
| SYMBOL | QUANTITY | DESCRIPTION |
| | 11 | SPOT LIGHT |
| | 3 | DIRECTIONAL SPOT LIGHT |
| | 9 | DECORATIVE HANGING CHANDELIER |
| | 47 | 24 X 48 FLOURESCENT LIGHT |
| | 3 | EXHAUST FAN |
| | 8 | COACH LIGHT |
| $ | 29 | SINGLE POLE SWITCH |
| $3 | 14 | 3 WAY SWITCH |
| $4 | 1 | 4 WAY SWITCH |
| | 1 | METER |
| | 2 | PANEL W/ MAIN BREAKER |
| | 2 | RECESSED CAN LIGHT |
| | 2 | SURFACE MOUNT GLOBE LIGHT |
| | 2 | FLOOD LIGHTS |

ISSUED FOR APPROVAL

9/5/07

31-Aug-07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| - | 10-20-06 | ISSUED FOR CONSTRUCTION |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Auth. # 9461


# 7th ADVENTIST CHURCH NEW WORSHIP CENTER COLUMBIA COUNTY, FLORIDA

## LIGHTING PLAN

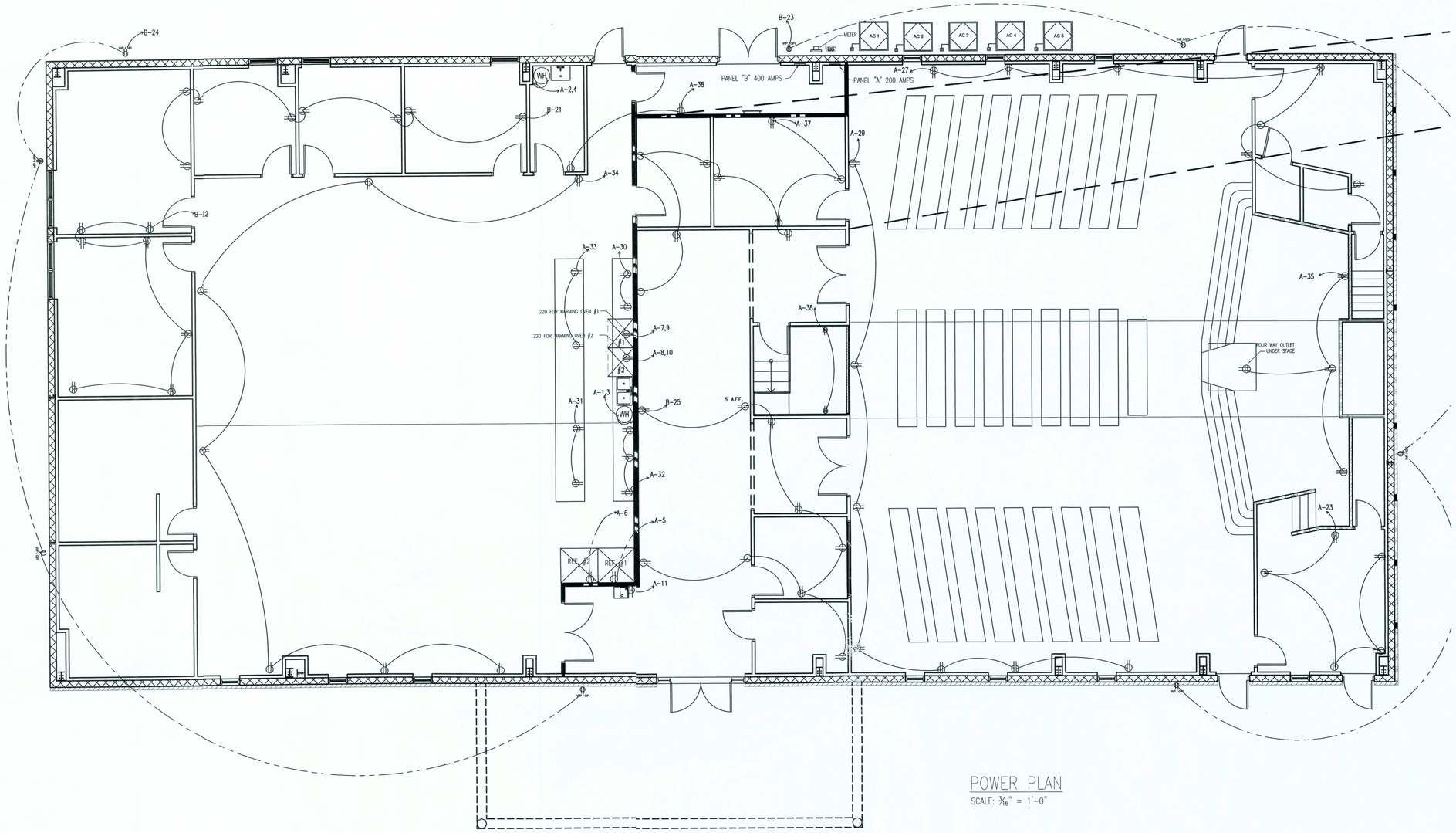
PROJECT NUMBER: PF06-193S

DRAWN BY: D. PRICE

CHECKED BY: G.G.

E-1.0

SHEET 12 OF 16




POWER PLAN

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

| ELECTRICAL LEGEND | | |
|---|---|---|
| SYMBOL | QUANTITY | DESCRIPTION |
| | #3 | STANDARD OUTLET |

ISSUED FOR APPROVAL

7/5/07

31-Aug-07

| REV # | DATE | REVISION NOTES |
|---|---|---|
| — | — | #### |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7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

POWER PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

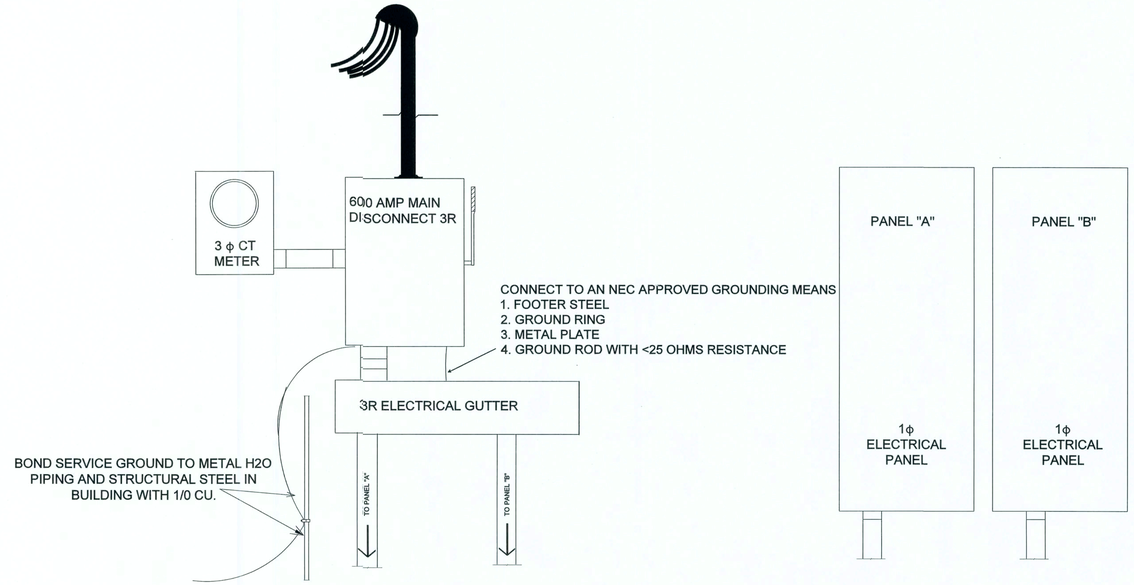
E-1.1

SHEET 13 OF 16

## 7TH DAY ADVENTIST CHURCH

| | | | |
|---|---|---|---|
| PANEL | PANEL A | FEEDER | |
| FED FROM | 600 AMP MAIN DISCONNECT | NUMBER OF CONDUITS | 1 |
| # CIRCUITS | 42 | FEEDER CONDUIT | 1 1/2" |
| NI VOLTAGE | 220 | WIRE SIZE L1 | #3/0 |
| LOW VOLTAGE | 120 | WIRE SIZE L2 | #3/0 |
| PHASE | 1 | | |
| DESIGN LOAD AMPS | 192 | WIRE SIZE NEUTRAL | #2/0 |
| NEUTRAL BUS | YES | WIRE SIZE GROUND | #6 |
| GROUND BUS | YES | | |
| AVAILABLE FAULT CURRENT AT THIS PANEL | 29,230 | | |
| MAIN BREAKER SIZE AMPS | 200 | | |
| | | 7TH DAY ADVENTIST CHURCH | |
| | | LAKE CITY | |
| | | New Construction 2002 | |

| # | BKR | CIRCUIT DESCRIPTION | H | N | I | VA | | VA | I | N | H | CIRCUIT DESCRIPTION | BKR | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30A-2P | WATER HEATER-A-KITCHEN | | | G | 1,410 | L1 | 1,410 | G | | | WATER HEATER-A-MIRROR | 20A-2P | 2 |
| 3 | XXX | XXX | | | G | 1,110 | L2 | 1,410 | G | | | XXX | XXX | 4 |
| 5 | 20A-1P | REFRIGERATOR#1 | N | | S | 1,008 | L1 | 1,008 | S | | N | REFRIGERATOR #2 | 20A-1P | 6 |
| 7 | 20A-2P | WASHING OVEN #1 | | | S | 800 | L2 | 800 | S | | | WASHING OVEN #2 | 20A-2P | 8 |
| 9 | XXX | XXX | | | S | 800 | L1 | 800 | S | | | XXX | XXX | 10 |
| 11 | 20A-1P | WATER COOLER | N | | G | 480 | L2 | 1,248 | G | | N | LIGHTS-C.R.1,BATH FANS | 20A-1P | 12 |
| 13 | 20A-1P | LIG HTS-C.R.3,4,5,6,7,AIR, STOR | N | | G | 1,152 | L1 | 1,800 | G | | N | LIGHTS-COUND. BOTHER RM | 20A-1P | 14 |
| 15 | 20A-1P | LIG HTS-FELLOWSHIP HALL | N | | G | 1,536 | L2 | 1,296 | G | | N | LIGHTS-CANOPY, POWER | 20A-1P | 16 |
| 17 | 20A-1P | LIG HTS-FOYER, ENTRY HALL | N | | G | 1,296 | L1 | 672 | G | | N | LIGHTS-GARAGE, BASTGTRY | 20A-1P | 18 |
| 19 | 20A-1P | LIG HTS-C.R7, CHANGING,STUD | N | | G | 936 | L2 | 828 | G | | N | LIGHTS-AUDITORIUM | 20A-1P | 20 |
| 21 | 20A-1P | LIG HTS-AUDITORIUM/HALL | N | | G | 864 | L1 | 900 | G | | N | LIGHTS-AUDITORIUM FRONT | 20A-1P | 22 |
| 23 | 20A-1P | LIG HTS-AUDITORIUM REAR | N | | G | 900 | L2 | 1,020 | G | | N | LIGHTS-STEEPLE, SIGN | 20A-1P | 24 |
| 25 | 20A-1P | STUDIO-RECEPTICLES | N | | G | 900 | L1 | 600 | G | | N | LIGHTS-COACH ENTERPLR | 20A-1P | 26 |
| 27 | 20A-1P | SANCTUARY-CRE RECEPTICLE | N | | G | 1,200 | L2 | 1,050 | G | | N | LIGHTS-EMERG ENCY , EXIT | 20A-1P | 28 |
| 29 | 20A-1P | SANCTUARY-RECEPTICLES | N | | G | 1,200 | L1 | 360 | S | | N | KITCHEN-RECEPTICLES | 20A-1P | 30 |
| 31 | 20A-1P | KITCHEN-RECEPTICLES | N | | S | 360 | L2 | 540 | S | | N | KITCHEN-RECEPTICLES | 20A-1P | 32 |
| 33 | 20A-1P | KITCHEN-RECEPTICLES | N | | S | 360 | L1 | 1,260 | G | | N | FELLOWSHIP-RECEPTICLES | 20A-1P | 34 |
| 35 | 20A-1P | STAG E-RECEPTICLES | N | | S | 900 | L2 | 360 | G | | N | UTILITY,LANDRY-RECEPTICLE | 20A-1P | 36 |
| 37 | 20A-1P | STOPAGE LIGHT-RECEPTICLE | N | | G | 1,620 | L1 | 720 | G | | N | COUND ROOD-RECEPTICLES | 20A-1P | 38 |
| 39 | | | | | G | | L2 | | G | | | | | 40 |
| 41 | | | | | G | | L1 | | G | | | | | 42 |




## 7TH DAY ADVENTIST CHURCH

| | | | |
|---|---|---|---|
| PANEL | PANEL B | FEEDER | |
| FED FROM | 600 AMP MAIN DISCONNECT | NUMBER OF CONDUITS | 1 |
| # CIRCUITS | 42 | FEEDER CONDUIT | 2 1/2" |
| NI VOLTAGE | 220 | WIRE SIZE L1 | #4/0 |
| LOW VOLTAGE | 120 | WIRE SIZE L2 | #4/0 |
| PHASE | 1 | | |
| DESIGN LOAD AMPS | 335 | WIRE SIZE NEUTRAL | #4/0 |
| NEUTRAL BUS | YES | WIRE SIZE GROUND | #3 |
| GROUND BUS | YES | | |
| AVAILABLE FAULT CURRENT AT THIS PANEL | 34,650 | | |
| MAIN BREAKER SIZE AMPS | 300 | | |

| # | BKR | CIRCUIT DESCRIPTION | H | I | VA | | VA | I | N | CIRCUIT DESCRIPTION | BKR | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 60A-2P | AIR HANDLER #1 | | G | 5,894 | L1 | | G | | AC #1 | 60A-2P | 2 |
| 3 | XXX | XXX | | G | 5,894 | L2 | | G | | XXX | XXX | 4 |
| 5 | 60A-2P | AIR HANDLER #2 | | G | 5,894 | L1 | | G | | AC #2 | 60A-2P | 6 |
| 7 | XXX | XXX | | G | 5,894 | L2 | | G | | XXX | XXX | 8 |
| 9 | 60A-2P | AIR HANDLER #3 | | G | 5,894 | L1 | | G | | AC #3 | 20A-2P | 10 |
| 11 | XXX | XXX | | G | 5,894 | L2 | | G | | XXX | XXX | 12 |
| 13 | 60A-2P | AIR HANDLER #4 | | G | 5,894 | L1 | | G | | AC #4 | 60A-2P | 14 |
| 15 | XXX | XXX | | G | 5,894 | L2 | | G | | XXX | XXX | 16 |
| 17 | 60A-2P | AIR HANDLER #5 | | G | 5,894 | L1 | | G | | AC #5 | 30A-2P | 18 |
| 19 | XXX | XXX | | G | 5,894 | L2 | | G | | XXX | XXX | 20 |
| 21 | 20A-1P | CR 2,3,4,5-RECEPTICLES | N | S | 1,440 | L1 | 1,200 | S | N | CR 2,3,4,5-RECEPTICLES | 20A-1P | 22 |
| 23 | 20A-1P | WEATHERPROOF-RECEPTICLE | N | S | 720 | L2 | 720 | S | N | WEATHERPROOF-RECEPTICLE | 20A-1P | 24 |
| 25 | 20A-1P | FOYER,BOTHER,SUNDEX-REC | N | S | 1,620 | L1 | | G | | | | 26 |
| 27 | | | | G | | L2 | | G | | | | 28 |
| 29 | | | | G | | L1 | | G | | | | 30 |
| 31 | | | | G | | L2 | | G | | | | 32 |
| 33 | | | | G | | L1 | | G | | | | 34 |
| 35 | | | | G | | L2 | | G | | | | 36 |
| 37 | | | | G | | L1 | | G | | | | 38 |
| 39 | | | | G | | L2 | | G | | | | 40 |
| 41 | | | | G | | L1 | | G | | | | 42 |

## 7TH DAY ADVENTIST CHURCH

LOAD CALCULATIONS FOR "PANEL PANEL A" — BASED ON THE 2005 NEC

BASED ON THE 2005 NEC

| | L1 | L2 | NEUTRAL |
|---|---|---|---|
| CALCULATED LOAD ( NEC 215.5 ) | 19,320 VA | 18,704 VA | 15,420 VA |
| CALCULATED LOAD WITH DEMAND FACTORS ( NEC 215.5 ) | | | |
| GENERAL LOAD | 14,984 VA | 14,204 VA | |
| RECEPTACLE LOAD (NEC 220.14) | | | |
| 1ST 10,000W | 0 VA | 0 VA | |
| CONTINUOUS LOAD (NEC 215.2) | 0 VA | 0 VA | |
| PLUS 25% | 0 VA | 0 VA | |
| MOTOR LOAD (NEC 430.24) | 0 VA | 0 VA | |
| PLUS 25% OF LARGEST MOTOR | 0 VA | 0 VA | |
| KITCHEN LOAD (NEC 220.56) | | | |
| L1 ( 4,336 X 0.65 ) = | 2,818 VA | | |
| L2 ( 2,500 X 0.65 ) = | | 1,625 VA | |
| L3 ( X 0.65 ) = | | | |
| TOTAL BALANCED LOAD (1-PHASE) | 15,829 VA | 15,829 VA | 0 VA |
| TOTAL UNBALANCED LOAD (1-PHASE) | 1,873 VA | 0 VA | 0 VA — 15,420 VA |
| LINE AMPS BALANCED (1-PHASE) | 143.9 A | 143.9 A | 0.0 A |
| LINE AMPS UNBALANCED (1-PHASE) | 16.4 A | 0.0 A | 0.0 A |
| TOTALS | 160.3 A | 143.9 A | 0.0 A — 128.5 A |
| ADJUSTMENT FACTOR | 32.1 A | 28.8 A | 0.0 A — 25.7 A |
| TOTAL DESIGN LOAD | 192.4 A | 172.7 A | 0.0 A — 154.2 A |

VOLTAGEDROP CALCULATIONS

Single Phase ( 2 X 20' L X 0.0788 R X 160.3A ÷ 1,000 ) = 0.5 VD

Voltage Drop % ( 0.5 VD ÷ 220 V X 100 ) = 0.2% VD

FAULT CURRENT CALCULATIONS

Available Fault Current at Starting Point (( 50,000 AFC X 1.00 UA ) + 0 MC ) = 50,000 AFC

Conductor Factor CF - Formula ( 2 X 20 L X 50,000 AFC ) ÷ ( 12,844 C X 1 N X 220 V ) = 0.708 CF

Conductor Multiplier CM - Formula ( 1 ) ÷ ( 1 + 0.708 CF ) = 0.585 CM

Conductor Let-Through Current CLC - Formula ( 50,000 AFC X 0.585 CM ) = 29,250 CLC

A - Amps
AFC - Available Fault Current
C - Conductor Constant
CF - Conductor Factor
CLC - Conductor Let-Through Current
CM - Conductor Multiplier
L - Length of Conductor
MC - Motor Contribution
N - Number of Conductors Per Phase
R - Resistance
UA - Utility Adjustment 1.1
V - Voltage
VA - Volt Amps
VD - Voltage Drop

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31-Aug-07

## ELECTRICAL SPECIFICATIONS

16010 GENERAL:

1.1 CONTRACTOR SHALL PROVIDE THE FOLLOWING:
A. LABOR
B. MATERIALS
C. TOOLS
D. SHOP DRAWINGS
E. PERMITS AND INSPECTION FEES
F. CERTIFICATE OF FINAL INSPECTION AND APPROVAL
G. ONE YEAR GUARANTEE

1.2 CONTRACTOR SHALL PERFORM THE FOLLOWING:
A. INSTALLATION OF ALL EQUIPMENT
B. COORDINATION WITH OTHER TRADES OF ELECTRICAL EQUIPMENT INSTALLATION
C. MAINTAIN PROTECTION DURING CONSTRUCTION
D. TEST OF ENTIRE SYSTEM IN PRESENCE OF OWNER'S REPRESENTATIVE TO ASSURE CORRECT ANY DEFICIENCIES DISCOVERED
E. COORDINATION OF ELECTRICAL SERVICE AND METERING WITH LOCAL POWER COMPANY
F. COORDINATION OF TELEPHONE SERVICE WITH LOCAL TELECOMMUNICATIONS COMPANY

1.3 GOVERNING CODES SHALL BE THE FOLLOWING:
A. CODE OF UNIFORMOUS FLORIDA ELECTRICAL CODE
B. NATIONAL ELECTRICAL CODE (NEC) 2002
C. LOCAL GOVERNMENT REGULATIONS
D. UNDERWRITER LABORATORIES (UL)
E. CURRENT APPLICABLE BUILDING CODE
F. LOCAL BUILDING CODES AND ORDINANCES
G. STANDARD BUILDING CODE (SBC) 1994
H. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION STANDARDS (NEMA)
I. UNDERWRITER LABORATORIES INCORPORATED STANDARDS (UL)
J. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
K. THE MANUFACTURER'S RECOMMENDATION

1.4 MATERIALS WILL BE:
A. NEW
B. ELC. LISTED

16110 RACEWAYS:

1.1 USE AND TYPE:
A. SERVICE ENTRANCE – RIGID STEEL.
B. FEEDERS – RIGID STEEL EXCEPT ABOVE 6' – 0" AND BELOW THAN 18".
C. BRANCH CIRCUIT, TELEPHONE OR COMMUNICATION – EMT.
D. IN EARTH OR CONCRETE – SCHEDULE 40 PVC.
E. RECESSED LIGHTING FIXTURES – FLEXIBLE STEEL CONDUIT (SHORT BUT MAXIMUM 72").
F. OUTDOOR FINAL CONNECTION TO EQUIPMENT OR MOTOR – SHORT LENGTH OF LIQUID TIGHT FLEXIBLE STEEL CONDUIT (MAXIMUM 36").
G. ALL RACEWAYS, UNLESS SPECIFICALLY INDICATED OTHERWISE, SHALL BE CONCEALED IN WALLS OR CEILINGS.
H. PAINT ALL EXPOSED RACEWAYS COLOR AS DIRECTED BY THE ARCHITECT

1.2 CONDUIT BUSHINGS
A. PROVIDE INSULATED CONDUIT BUSHINGS AT EACH END OF EVERY CONDUIT RUN

16120 WIRES AND CABLES, 600 VOLT

1.1 COLOR CODING: 240/120V

1.2 INSULATION: THHN, THWN, XHHW, 75 DEGREE C

1.3 PRIMARY COPPER WIRING UNLESS ALUMINUM IS SPECIFICALLY INDICATED. ALUMINUM WIRE: ALUMINUM CONDUCTORS ARE UTILIZED – 1 PROVIDE ANTI-OXIDATION INHIBITING COMPOUND

1.4 FIXTURE WIRE AND WALL 200 DEGREE C. (194 DEG. MINIMUM, STRANDED, THREE COPPER WIRES, SILICONE RUBBER INSULATION AND AN ORGANIC JACKET OF GLASS BRAID, AND RATED AS TYPE "SF-2"

1.5 TYPE MC OR AC CABLING MAY BE UTILIZED FOR BRANCH CIRCUIT WIRING IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY

1.6 TYPE SE OR USE CABLING MAY BE UTILIZED FOR FEEDERS TO LOADCENTERS IN APARTMENT UNITS IF ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY

1.7 VOLTAGE DROP WILL NOT EXCEED 3% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS

16030 BOXES:

1.1 ATTACH SECURELY TO BUILDING CONSTRUCTION OR SUPPORT FROM SAME.

1.2 MASONRY BOXES SHALL BE INCO OR STEEL CITY

1.3 EXPOSED BOXES SHALL BE CAST TYPE SIMILAR TO CROUSE HINDS TYPE FS.

1.4 ALL COVERS SHALL BE STAMPED STEEL

1.5 FLOOR BOXES
A. PROVIDE CAST IRON FLOOR BOXES WITH ADJUSTABLE ATTACHOTS AND BRASS COVERPLATES. PROVIDE NUMBER OF GANGS AND DEVICES INDICATED ON DRAWINGS

16040 WIRING DEVICES:

1.1 RECEPTACLES(DUPLEX) AS DIRECTED BY ARCHITECT:
A. SINGLE – 20AMP, 120/277V, SINGLE THROW QUIET TYPE, GROUNDED
B. SINGLE – 20AMP, 120/277V, SINGLE THROW QUIET TYPE, GROUNDED
C. RECEPTACLES ON INDICATED CIRCUITS SHALL UTILIZE 20 AMP, LEVINGL GROUNDED TYPE.

1.2 WALL SWITCHES (SINGLE AS DIRECTED BY ARCHITECT)
A. SINGLE – 20AMP, 120/277V, SINGLE THROW QUIET TYPE, GROUNDED
B. DOUBLE THROW – 20AMP, 120/277V, SINGLE THROW QUIET TYPE, GROUNDED
C. THREE WAY – 20AMP, 120/277V, SINGLE THROW QUIET TYPE, GROUNDED
D. FOUR WAY – 20AMP, 120/277V, SINGLE THROW QUIET TYPE, GROUNDED

1.3 COVERPLATES: PROVIDE FINISH AND COLOR DIRECTED BY ARCHITECT

16050 ELECTRICAL SERVICE:

1.1 GENERAL
A. PROVIDE NEW SERVICE AS SHOWN ON "ONE LINE DIAGRAM"

16070 PANELBOARDS:

1.1 PANELBOARDS SHALL HAVE, BUT ARE NOT LIMITED TO THE FOLLOWING:
A. SINGLE PHASE, 4 WIRE , OR SINGLE PHASE, 3 WIRE, COPPER BUSSES
B. GROUND BUS WITH SET SCREW CONNECTION
C. NEUTRAL BUS, FULL RATED WITH SET SCREW CONNECTION.
D. BANDS-ON STRAIN, TRIM
E. SWITCH RATED BOLT-ON BREAKERS
F. PROVIDE TYPE DIRECTORY
G. PANELBOARDS SHALL HAVE 1" INCH WHITE LETTERS TO INDICATE PANEL NAME
H. SQUARE D, SIEMENS, OR G.E.

16070 GROUNDING:

1.1 SERVICE ENTRANCE
A. SEE SERVICE ELC-1

1.2 FEEDERS AND BRANCH CIRCUITS
A. PROVIDE A GREEN INSULATED GROUND CONDUCTOR, SIZED PER THE NEC, IN EACH RACEWAY AND WITH ALL CIRCUITS

16200 LIGHTING FIXTURES:

1.1 COORDINATE FIXTURE TYPES WITH COLUMN IN/ON WHICH IT IS BEING INSTALLED

1.2 PROVIDE LOW TEMPERATURE, HIGH EFFICIENCY ELECTRONIC BALLASTS IN FLUORESCENT FIXTURES

1.3 PROVIDE THERMAL OVERLOAD PROTECTION IN BOTH FLUORESCENT AND INCANDESCENT FIXTURES

1.4 MATCH VOLTAGE OF FIXTURE TO CIRCUIT TO WHICH FIXTURE IS SHOWN CONNECTED

1.5 NARRATIVE DESCRIPTION IN LIGHTING FIXTURE SCHEDULE SHEET PRECEDENCE OVER CATALOG NUMBER

1.6 ALL RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING SHALL BE PROVIDED WITH CERTAIN WALL BOARD ENCLOSURE, CONSTRUCTED AND INSTALLED PER UL REQUIREMENTS, AROUND THE PERIMETER OF FIXTURE LOCATED ABOVE SUSPENDED CEILING TO MAINTAIN FIRE RATING CEILING.

OCCUPANCY SENSOR – IN ORDER TO MEET THE ENERGY CODE THE ENTIRE FACILITY MUST HAVE OCCUPANCY SENSORS. THE SENSORS MUST BE WIRED TO THE LIGHTS PLAN TO BE SENSOR MANUFACTURED TO THE THE CONTROL SYSTEM AND SENSOR COVERAGE MUST BE APPLIED PROPERLY. A SHOP DRAWING MUST BE SENT, FROM THE MANUFACTURER, WITH SENSOR COVERAGE AND WIRING DIAGRAMS.

## ELECTRICAL PLAN NOTES

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

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

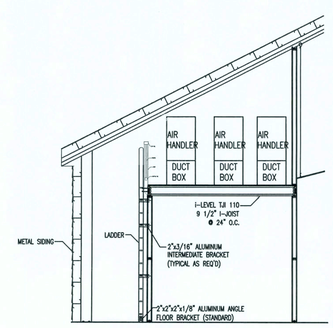
INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

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 CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS 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.

ALL BEDROOM RECEPTACLES SHALL BE ON AFCI PROTECTED CIRCUITS




## 7TH DAY ADVENTIST CHURCH

LOAD CALCULATIONS FOR "PANEL PANEL B" — BASED ON THE 2005 NEC

BASED ON THE 2005 NEC

| | L1 | L2 | |
|---|---|---|---|
| CALCULATED LOAD ( NEC 215.5 ) | 32,230 VA | 29,410 VA | |
| CALCULATED LOAD WITH DEMAND FACTORS ( NEC 215.5 ) | | | |
| GENERAL LOAD | 27,970 VA | 27,970 VA | |
| RECEPTACLE LOAD (NEC 220.14) | | | |
| 1ST 10,000W | 4,260 VA | 1,440 VA | |
| CONTINUOUS LOAD (NEC 215.2) | 0 VA | 0 VA | |
| PLUS 25% | 0 VA | 0 VA | |
| MOTOR LOAD (NEC 430.24) | 0 VA | 0 VA | |
| PLUS 25% OF LARGEST MOTOR | 0 VA | 0 VA | |
| KITCHEN LOAD (NEC 220.56) | | | |
| L1 ( 0 X 1 ) = | 0 VA | | |
| L2 ( 0 X 1 ) = | | 0 VA | |
| L3 ( X 1 ) = | | | |
| TOTAL BALANCED LOAD (1-PHASE) | 29,410 VA | 29,410 VA | 0 VA |
| TOTAL UNBALANCED LOAD (1-PHASE) | 2,820 VA | 0 VA | 0 VA |
| LINE AMPS BALANCED (1-PHASE) | 267.4 A | 267.4 A | 0.0 A |
| LINE AMPS UNBALANCED (1-PHASE) | 23.5 A | 0.0 A | 0.0 A |
| TOTALS | 290.9 A | 267.4 A | 0.0 A |
| ADJUSTMENT FACTOR | 43.6 A | 40.1 A | 0.0 A |
| TOTAL DESIGN LOAD | 334.5 A | 307.5 A | 0.0 A |

VOLTAGEDROPCALCULATIONS

Single Phase ( 2 X 20' LX 0.0321 RX 290.9 A ÷ 1,000 ) = 0.4 VD

Voltage Drop % ( 0.4 VD ÷ 220 V X 100 ) = 0.2 % VD

FAULT CURRENT CALCULATIONS

Available Fault Current at Starting Point (( 50,000 AFC X 1.00 UA ) + 0 MC ) = 50,000 AFC

Conductor Factor CF - Formula ( 2 X 20 LX 50,000 AFC ) ÷ ( 20,566 CX 1 NX 220 V ) = 0.442 CF

Conductor Multiplier CM - Formula ( 1 ) ÷ ( 1 + 0.442 CF ) = 0.693 CM

Conductor Let-Through Current CLC - Formula ( 50,000 AFC X 0.693 CM ) = 34,650 CLC

A - Amps
AFC - Available Fault Current
C - Conductor Constant
CF - Conductor Factor
CLC - Conductor Let-Through Current
CM - Conductor Multiplier
L - Length of Conductor
MC - Motor Contribution
N - Number of Conductors Per Phase
R - Resistance
UA - Utility Adjustment 1.1
V - Voltage
VA - Volt Amps
VD - Voltage Drop

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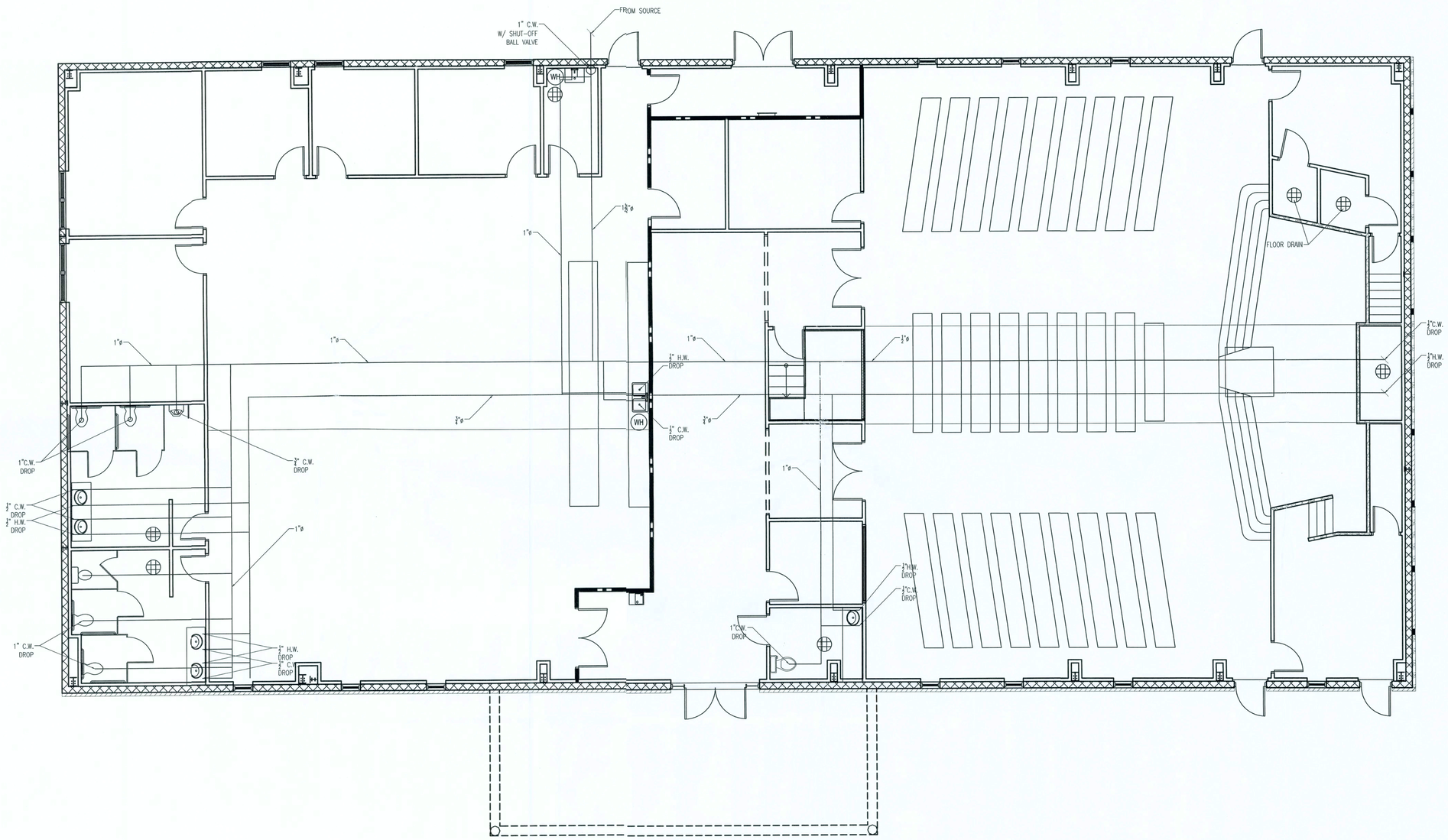
7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

ELECTRICAL SCHEDULES AND NOTES

PROJECT NUMBER PF06-193S
DRAWN BY -
CHECKED BY G.G.

E 1.2

SHEET 14 OF 16




WATER PLAN

SCALE: 3/8" = 1'-0"

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31-Aug-07

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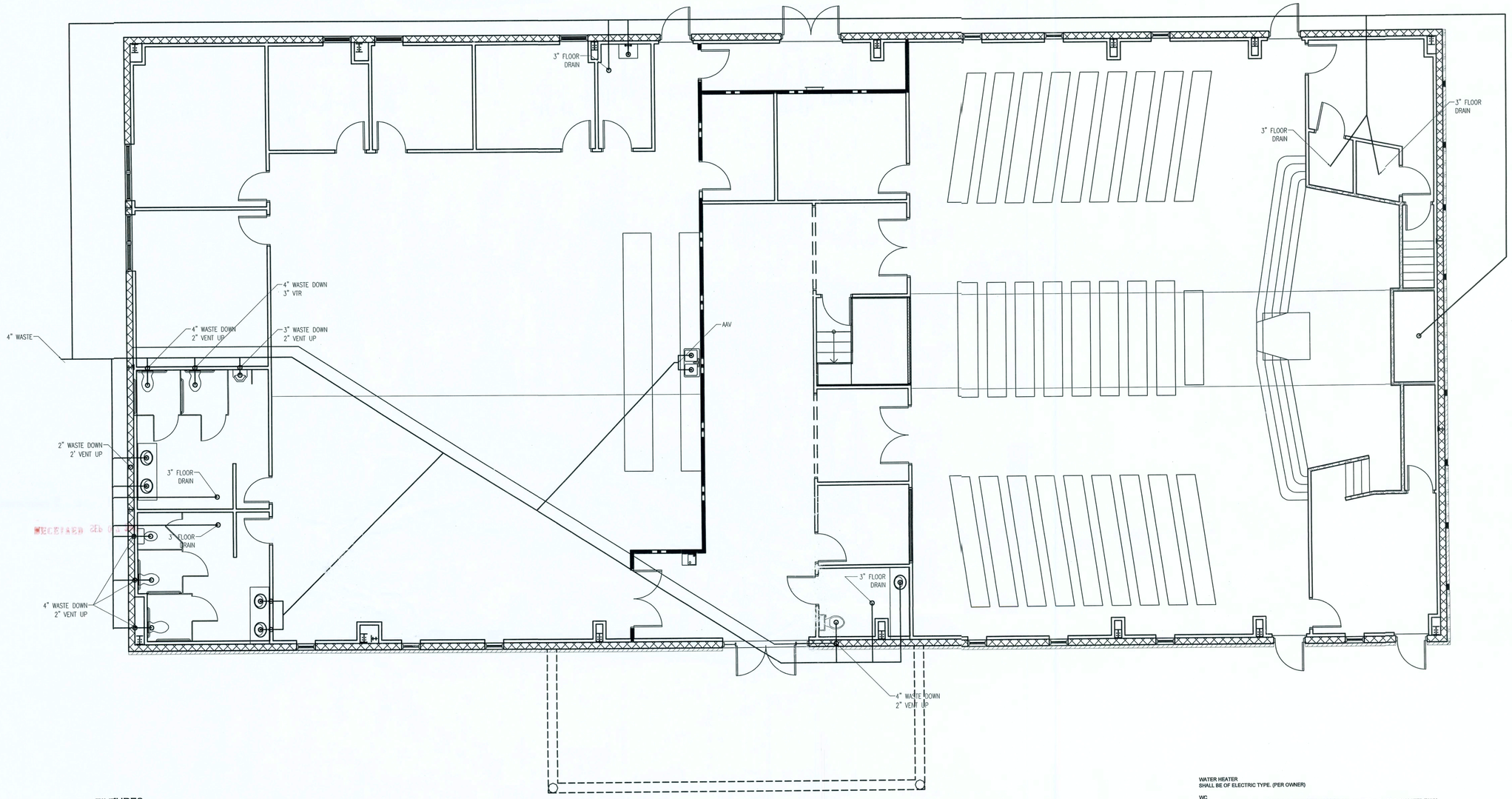
7TH DAY ADVENTIST CHURCH
NEW WORSHIP CENTER
COLUMBIA COUNTY, FLORIDA

WATER SUPPLY PLAN

PROJECT NUMBER: PF06-193S
DRAWN BY: -
CHECKED BY: G.G.

P-1

SHEET 15 OF 16




SEWER PLAN

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

FIXTURES:

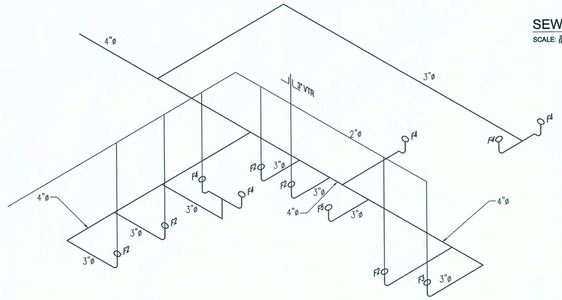
F1 = LAVATORY
F2 = WATER CLOSET
F3 = FLOOR DRAIN
F4= SINK
F5 = URINAL
FD = FLOOR DRAIN

NOTES:

1. SOIL PIPING, VENTS, AND STACK TO BE SCH. 40 PVC.

2. ALL AAV (AIR ADMITTANCE VENT) VALVES TO BE ACCESSIBLE IN CABINETS OR BY ACCESS GRILLE FOR MAINTENANCE.

3. ALL WORK TO BE INSPECTED AND TESTED IN ACCORDANCE WITH LOCAL CODES.




PLUMBING RISER DIAGRAM

SCALE: N.T.S.

1. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC., PLUMBING CONTRACTOR SHALL FURISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.
2. ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. ALL MATERIAL SHALL BE NEW.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
6. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
7. THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
9. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
10. VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
11. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
12. WATER PIPING SHALL BE CPVC.
13. SOIL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40. DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
14. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERNAL PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
15. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE AND PDI APPROVED SHACK ARRESTERS ON MAIN LINE AND RISERS.
16. PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM #58890.
17. INSULATE LINES AS FOLLOWS:
a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
b. CONDENSATE DRAIN: ½" THICK ARMAFLEX

WATER HEATER
SHALL BE OF ELECTRIC TYPE. (PER OWNER)

WC
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2174.139 ELONGATED TANK 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

HC WC
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2216. 43 ELONGATED 18" HIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

KITCHEN SINK
SHALL BE ELKAY LUSTERTONE MODEL DLH-2222-10-C SINGLE BOWL STAINLESS STEEL SELF-RIMMING SINK WITH LK2432 Hi-ARC FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 2.0 GPM FLOW RESTRICTOR.

JANITOR SINK
SHALL BE AN AMERICAN STANDARD MODEL FLORWELL 7740.020 ENAMELED CAST IRON SERVICE SINK WITH 7745.011 REMOVABLE VINYL-COATED RIM GUARD, 7721.038 DRAIN WITH STRAINER AND 7298.152 HERITAGE SERVICE SINK FITTING FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING VANDAL RESISTANT 2.0 GPM FLOW RESTRICTOR WITH BUCHET HOOKS.

LAV
SHALL BE AN AMERICAN STANDARD MODEL RONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.152H HERITAGE CENTER SET FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR

HC LAV
SHALL BE AN AMERICAN STANDARD MODEL RONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.172H HERITAGE CENTERSET FAUCET WITH 4" WRIST BLADE HANDLES TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR AQUASEAL VALVE AND CHROME FINISH, GRIP DRAIN: OFFSET PERFORATED WHEELCHAIR LAVATORY DRAIN ASSEMBLY WITH 1-1/2" TAILPIECE. MCGUIRE #155WC.

EWC
SHALL BE AN OASIS MODEL PLF8WMEE, 8.0 GPM, 4.8 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR

HOSE BIBB

SHALL BE A JOSAM 71000-95 SERIES CAST BRONZE BOX TYPE NON-FREEZE VANDAL PROOF WALL HYDRANT WITH COVER AND CONTROL KEY.

NOTES:
1. ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
3. ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED PER THE LASTED ADA REQUIREMENTS.

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PLUMBING PLAN

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SHEET 16 OF 16

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