



REVISIONS	



REVISIONS

BUILDING DESIGN DATA

1. SITE REQUIREMENTS:
- THIS BUILDING PLAN DOES NOT INCLUDE SITE PLAN.
THE BUILDER MUST VERIFY THAT THE EXISTING SITE HAS AN ACCESSIBLE EGRESS PATH. THIS IS SPECIFICALLY NOT PART OF THE SCOPE OF THIS PLAN. THIS ENGINEER DID NOT VISIT THE SITE.
2. OCCUPANCY GROUP REQUIREMENTS:
- BUILDING GROUP: B. BUSINESS OCCUPANCY
(A BUILDING USED FOR OFFICE, PROFESSIONAL OR SERVICE-TYPE)
3. MINIMUM TYPE OF CONSTRUCTION:
- TYPE OF CONSTRUCTION: TYPE V
(TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS ARE OF ANY MATERIAL PERMITTED BY FBC)
- MAXIMUM HEIGHT & AREA PER TABLE 503: 9000 FT2 PER STORY
- BUILDING HEIGHT: 1 STORY
- BUILDING AREA: +/- 4168 FT2
4. FIRE RESISTANT CONSTRUCTION REQUIREMENTS:
- RATING REQUIREMENTS FOR BUILDING ELEMENTS (PER TABLE 601 & 602)
TYPE V B CONSTRUCTION:

PRIMARY STRUCTURAL FRAME	0 HR.
BEARING WALLS - EXTERIOR	0 HR.
BEARING WALLS - INTERIOR	0 HR.
NON-BEARING WALLS - EXTERIOR	0 HR.
NON-BEARING WALLS - INTERIOR	0 HR.
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0 HR.
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0 HR.

- FIRE SEPARATION DISTANCE = >30' (BUILDER MUST VERIFY)
- MAXIMUM AREA OF EXTERIOR WALL OPENING (PER TABLE 705.80): PROTECTED OR UNPROTECTED - NO LIMIT
5. FIRE SUPPRESSION SYSTEM:
- NONE
6. LIFE SAFETY SYSTEMS:
- SHEET 1
7. OCCUPANCY LOAD / EGRESS REQUIREMENTS :
- OCCUPANCY LOAD PER TABLE 1004.1.1 = 40 PERSONS
EXISTING = 24 PERSONS, ADDITION = 16 PERSONS (BUSINESS AREAS = 100 FT PER PERSON GROSS)
- EXIT CAPACITY (BASED ON 1005.1)
TOTAL EXIT WIDTH 327' 2" = 160 PERSONS > 40 PERSONS
- MINIMUM NUMBER OF EXITS (PER 1016.1)
REQUIRED = 2 PROVIDED = 4 (3 IN EXISTING, 1 IN ADDITION)
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE (PER TABLE 1016.1)
ALLOWABLE = 200' ACTUAL = 75'
8. STRUCTURAL REQUIREMENTS:
- SEE SHEET S-1
9. MATERIALS AND FINISHES
- THIS PLAN DOES NOT INCLUDE DETAILED FINISH SPECS. IT IS THE BUILDERS RESPONSIBILITY TO VERIFY THAT ALL MATERIALS AND FINISHES USED COMPLY WITH THE FBC AND THE FFPC.
10. ACCESSIBILITY REQUIREMENTS:
- SHEET 3
11. INTERIOR FINISH REQUIREMENTS:
- SHEET 0
12. SPECIAL SYSTEMS:
- BUILDER IS TO PROVIDE SHOP DRAWING AND DETAILED SPECS OF ANY SPECIAL SYSTEMS.
13. SWIMMING POOLS:
- NONE

ENGINEER OF RECORD: Mark Diowsey,
PE No.53915, PCB-66, Lake City, FL
32056, 386-754-549

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer a questions to Mark Diowsey, P.E for resolution. Do not proceed without clarification.

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CERTIFICATION: These plans and Cover Sheet A-0, attached comply with applicable portions of the 2010 Florida Building Code to the best of my knowledge

LIMITATION: This design is valid for one building at specified location. In case of conflict, structural requirements, scope of work, and builder responsibility control.



Bryant Construction Co.

MayoFertilizer & Farn Supply Office Addition (Mike Shaw)

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OF 8 SHEETS

REQUIREMENTS FOR INTERIOR WALL & CEILING FINISHES

INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEX.

CLASS A:
FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.

CLASS B:
FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.

CLASS C:
FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

REQUIREMENTS BY OCCUPANCY (UNSPRINKLERED) PER FBC, TABLE 803.9

GROUP	VERTICAL EXITS AND EXIT PASSAGEWAYS (SEE NOTES a & b)	EXIT ACCESS CORRIDORS AND OTHER EXITWAYS	ROOMS AND ENCLOSED SPACES (SEE NOTE c)
B	CLASS A	CLASS B	CLASS C

TABLE NOTES:

- a. Class C interior finish materials shall be permitted for wainscoting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over turning strips applied to a noncombustible base and fastened as required by Section 903.4.1.
- b. In exit enclosures of buildings less than three stories in height of other than Group I-3, Class B interior finish for nonsprinklered buildings and Class C interior finish for sprinklered buildings shall be permitted.
- c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered enclosing spaces and the rooms or spaces on both sides shall be considered one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof shall be the governing factor regardless of the group classification of the building or structure.
- d. Lobby areas in Group A-1, A-2 and A-3 occupancies shall not be less than Class B materials.
- e. Class C interior finish materials shall be permitted in places of assembly with an occupant load of 300 persons or less.
- f. For places of religious worship, wood used for ornamental purposes, thrones, paneling or chancel furnishing shall be permitted.
- g. Class B material is required where the building exceeds two stories.
- h. Class C interior finish materials shall be permitted in administrative spaces.
- i. Class C interior finish materials shall be permitted in rooms with a capacity of four persons or less.
- j. Class B materials shall be permitted in wainscoting extending not more than 48 inches above the finished floor in corridors.
- k. Finish materials as provided for in other sections of this code.
- l. Applies when the exit enclosures, exit passageways, corridors or rooms and enclosed spaces are protected by a sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.

REQUIREMENTS FOR INTERIOR FLOOR FINISHES

INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL COMPLY WITH THE FOLLOWING EXCEPT FOR FLOORS AND FLOOR COVERINGS OF A TRADITIONAL TYPE, SUCH AS WOOD, VINYL, LINOLEUM OR TERRAZO, AND RESILIENT FLOOR COVERING MATERIALS WHICH ARE NOT COMPRISED OF FIBERS.

INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS REQUIRED BY FBC, TO BE OF CLASS I OR II MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH NFPA 253. THE CLASSIFICATION REFERRED TO HEREIN CORRESPONDS TO THE CLASSIFICATIONS DETERMINED BY NFPA 253 AS FOLLOWS: CLASS I, 0.45 WATTS/CM2 OR GREATER; CLASS II, 0.22 WATTS/CM2 OR GREATER.

IN ALL OCCUPANCIES, INTERIOR FLOOR FINISH IN VERTICAL EXITS, EXIT PASSAGEWAYS, EXIT ACCESS CORRIDORS AND ROOMS OR SPACES NOT SEPARATED FROM EXIT ACCESS CORRIDORS BY FULL-HEIGHT PARTITIONS EXTENDING FROM THE FLOOR TO THE UNDERSIDE OF THE CEILING SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX AS FOLLOWS:
INTERIOR FLOOR FINISH IN VERTICAL EXITS, EXIT PASSAGEWAYS AND EXIT ACCESS CORRIDORS SHALL NOT BE LESS THAN CLASS I IN GROUPS I-2 AND I-3 AND NOT LESS THAN CLASS II IN GROUPS A, B, E, H, I-4, M, R-1, R-2 AND S. IN ALL OTHER AREAS, THE INTERIOR FLOOR FINISH SHALL COMPLY WITH THE DOC FF-1 "PILL TEST" (CPSC 16 CFR, PART 1630).

INDEX TO SHEETS

SHEET 0	COVER SHEET LIST OF DELEGATIONS, SHEET INDEX BUILDING DESIGN DATA & SPECIFICATIONS
SHEET 1	ELEVATIONS
SHEET 2	FLOOR PLAN
SHEET 3	LIFE SAFETY / ACCESSIBILITY PLAN
SHEET M-1	MECHANICAL PLAN SHOP DRAWING
SHEET E-1	ELECTRICAL PLAN SHOP DRAWING
SHEET S1	STRUCTURAL NOTES & DETAILS
SHEET S2	STRUCTURAL & FOUNDATION PLANS

LIST OF APPLICABLE CODES

- 2010 FLORIDA EXISTING BUILDING CODE,
NFPA 70, NATIONAL ELECTRICAL CODE
- 2010 FLORIDA BUILDING CODE, BUILDING
2010 FLORIDA BUILDING CODE, FUEL GAS
2010 FLORIDA BUILDING CODE, MECHANICAL
2010 FLORIDA BUILDING CODE, PLUMBING
2010 FLORIDA FIRE PREVENTION CODE
2010 FLORIDA ENERGY EFFICIENCY CODE
- 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION

LIST OF DELEGATIONS

ELECTRICAL SYSTEM DESIGN:
TO BE FURNISHED BY THE ELECTRICAL CONTRACTOR

PLUMBING SYSTEM DESIGN:
NOT APPLICABLE

FIRE SPRINKLER SYSTEM DESIGN:
NOT APPLICABLE

HVAC SYSTEM DESIGN:
TO BE FURNISHED BY THE HVAC CONTRACTOR

SPECIALIZED SYSTEMS:
NOT APPLICABLE

LIFE SAFETY REVIEW:
IT IS THE CONTRACTOR / OWNER'S RESPONSIBILITY TO REQUEST A LIFE SAFETY REVIEW BY THE FIRE MARSHAL. LIFE SAFETY PLAN IS SUGGESTION ONLY. ACTUAL REQUIREMENTS TO BE DETERMINED BY FIRE MARSHAL BEFORE ORDERING ANY MATERIALS OR STARTING CONSTRUCTION.

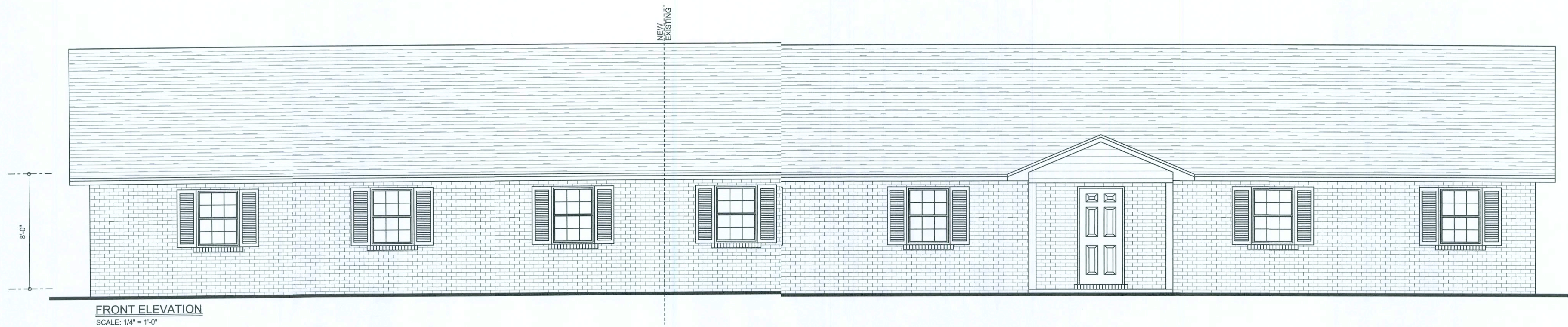
ENERGY EFFICIENCY CALCULATION:
TO BE FURNISHED BY THE BUILDER, SIGNED AND SEALED BY: ARCHITECT, ENGINEER, AIR CONDITIONING OR MECHANICAL CONTRACTOR, OR CERTIFIED COMMERCIAL ENERGY RATER.

STRUCTURAL DESIGN:
ALL STRUCTURAL BUILDING ELEMENTS ARE EXISTING. THE BUILDER IS TO VERIFY THAT EXISTING CONDITIONS MEET THE REQUIREMENTS OF THE ORIGINAL BUILDING AS REQUIRED BY THE DESIGN PROFESSIONAL OF RECORD FOR THE STRUCTURE. IF ANY CHANGES ARE TO BE MADE OR IF EXISTING CONDITIONS DO NOT MEET THE ORIGINAL REQUIREMENTS THE BUILDER MUST CONTACT THE ENGINEERING OF RECORD FOR CLARIFICATION BEFORE PROCEEDING.

NOTE: IT IS THE RESPONSIBILITY OF THE BUILDING DEPARTMENT AND BUILDER TO MAKE SURE DELEGATED PLANS ARE COMPLETED AND APPROVED BY THE ENGINEER OF RECORD, THE OWNER, AND THE BUILDING OFFICIAL. PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.
ENGINEER OF RECORD DOES NOT HAVE CONSTRUCTION MANAGEMENT AUTHORITY.

REVISIONS	

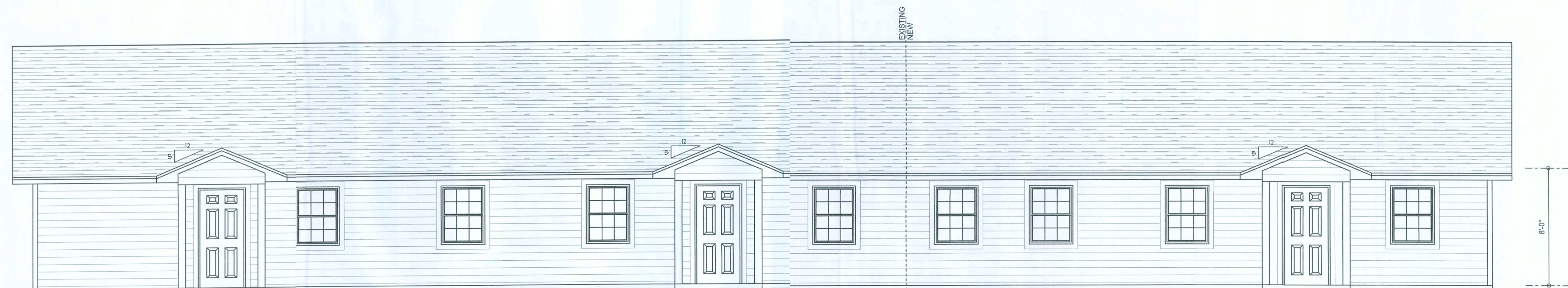
SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE



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



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



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

ENGINEER OF RECORD: Mark Disosway,
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32055, 386-75-5419

DIMENSIONS
Stated dimensions supercede scaled
dimensions. Refer all questions to
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CERTIFICATION: These plans and Cover
Sheet A-1, attached, comply with applicable
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**Bryant
Construction Co.**

**Mayo Fertilizer
& Farm Supply
Office Addition
(Mike Shaw)**

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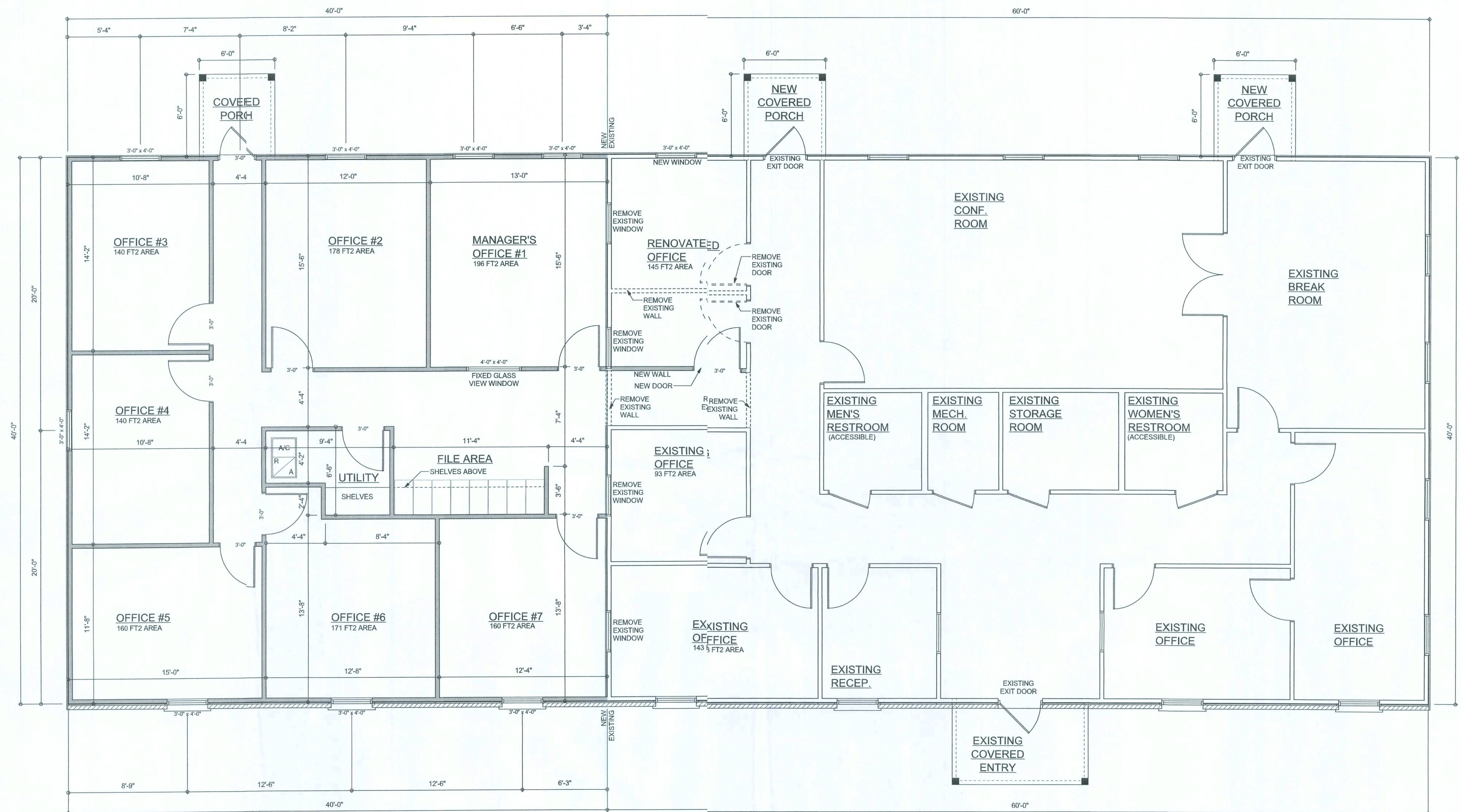
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OF 8 SHEETS

REVISIONS

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE



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

AREA SUMMARY

EXISTING CONDITIONED AREA	2400 S. F.
NEW CONDITIONED AREA	1600 S. F.
EXISTING PORCH AREA	60 S. F.
NEW PORCH AREA	108 S. F.
TOTAL AREA	4168 S. F.

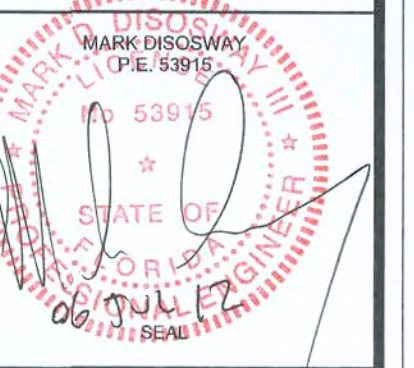
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OF 8 SHEETS

MEANS OF EGRESS ILLUMINATION REQUIREMENTS

ILLUMINATION OF MEANS OF EGRESS SHALL BE PROVIDED IN ACCORDANCE WITH THIS SECTION FOR EVERY BUILDING AND STRUCTURE. FOR THE PURPOSES OF THIS REQUIREMENT, EXIT ACCESS SHALL INCLUDE ONLY DESIGNATED STAIRS, AISLES, CORRIDORS, RAMPS, ESCALATORS AND PASSAGEWAYS LEADING TO AN EXIT. FOR THE PURPOSES OF THIS REQUIREMENT, EXIT DISCHARGE SHALL INCLUDE ONLY DESIGNATED STAIRS, AISLES, CORRIDORS, RAMPS, ESCALATORS, WALKWAYS AND EXIT PASSAGEWAYS LEADING TO A PUBLIC WAY.

1. WHEN APPROVED BY THE BUILDING OFFICIAL, ILLUMINATION OF MEANS OF EGRESS SHALL NOT BE REQUIRED IN INDUSTRIAL AND STORAGE OCCUPANCIES THAT ARE OCCUPIED ONLY DURING DAYLIGHT HOURS, WITH SKYLIGHTS OR WINDOWS ARRANGED TO PROVIDE THE REQUIRED LEVEL OF ILLUMINATION ON ALL PORTIONS OF THE MEANS OF EGRESS DURING THESE HOURS.
2. ASSEMBLY OCCUPANCY PRIVATE PARTY TENTS OF 1,200 SQUARE FEET (111 M²) OR LESS SHALL NOT BE REQUIRED TO PROVIDE ILLUMINATION OF MEANS OF EGRESS.
3. OPEN STRUCTURES SHALL NOT BE REQUIRED TO PROVIDE ILLUMINATION OF MEANS OF EGRESS.
4. TOWERS OCCUPIED BY NOT MORE THAN THREE PERSONS SHALL NOT BE REQUIRED TO PROVIDE ILLUMINATION OF MEANS OF EGRESS.

ILLUMINATION OF MEANS OF EGRESS SHALL BE CONTINUOUS DURING THE TIME THAT THE CONDITIONS OF OCCUPANCY REQUIRE THAT THE MEANS OF EGRESS BE AVAILABLE FOR USE. ARTIFICIAL LIGHTING SHALL BE EMPLOYED AT SUCH PLACES AND FOR SUCH PERIODS OF TIME AS REQUIRED TO MAINTAIN THE ILLUMINATION TO THE MINIMUM CRITERIA VALUES HEREIN SPECIFIED. EXCEPTIONS: AUTOMATIC MOTION SENSOR-TYPE LIGHTING SWITCHES SHALL BE PERMITTED WHEN THE MEANS OF EGRESS, PROVIDED THAT SWITCH CONTROLLERS ARE EQUIPPED FOR FAIL-SAFE OPERATION, ILLUMINATION TIMERS ARE SET FOR A MINIMUM 15-MINUTE DURATION AND THE MOTION SENSOR IS ACTIVATED BY ANY OCCUPANT MOVEMENT IN THE AREA SERVED BY THE LIGHTING UNITS.

THE FLOORS AND OTHER WALKING SURFACES WITHIN AN EXIT AND WITHIN THE PORTIONS OF THE EXIT ACCESS SHALL BE ILLUMINATED TO VALUES OF AT LEAST 1 FOOT-CANDLE (10 LUX) MEASURED AT THE FLOOR, DURING CONDITIONS OF STAIR USE, THE MINIMUM ILLUMINATION FOR NEW STAIRS SHALL BE AT LEAST 8 LUX (10 FOOT-CANDLE), MEASURED AT THE WALKING SURFACE.

EXCEPTION: IN ASSEMBLY OCCUPANCIES, THE ILLUMINATION OF THE FLOORS OF EXIT ACCESS SHALL BE AT LEAST 0.2 FOOT-CANDLE (2 LUX) DURING PERIODS OF PERFORMANCES OR PROJECTIONS INVOLVING DIRECTED LIGHT.

REQUIRED ILLUMINATION SHALL BE ARRANGED SO THAT THE FAILURE OF ANY SINGLE LIGHTING UNIT WILL NOT RESULT IN AN ILLUMINATION LEVEL IN ANY DESIGNATED AREA OF LESS THAN 0.2 FOOT-CANDLE (2 LUX).

THE EQUIPMENT OR UNITS INSTALLED TO MEET THE REQUIREMENTS OF SECTION 1006.3 SHALL BE PERMITTED ALSO TO SERVE THE FUNCTION OF ILLUMINATION OF MEANS OF EGRESS, PROVIDED THAT ALL REQUIREMENTS OF SECTION 101.1 FOR SUCH ILLUMINATION ARE MET.

SOURCES OF ILLUMINATION

- ILLUMINATION OF MEANS OF EGRESS SHALL BE FROM A SOURCE OF REASONABLY ENSURED RELIABILITY.
- BATTERY-OPERATED ELECTRIC LIGHTS AND OTHER TYPES OF PORTABLE LAMPS OR LANTERNS SHALL NOT BE USED FOR PRIMARY ILLUMINATION OF MEANS OF EGRESS. BATTERY-OPERATED ELECTRIC LIGHTS SHALL BE PERMITTED TO BE USED AS AN EMERGENCY SOURCE TO THE EXTENT PERMITTED UNDER SECTION 1008.2.3.4.

EMERGENCY LIGHTING AND STANDBY POWER

EMERGENCY LIGHTING FACILITIES FOR MEANS OF EGRESS SHALL BE PROVIDED IN ACCORDANCE WITH THIS SECTION FOR THE FOLLOWING:
1. EVERY BUILDING OR STRUCTURE WHERE REQUIRED IN TABLE 1006.
2. WINDOWLESS AND UNDERGROUND STRUCTURES.
EXCEPTION: ONE- AND TWO-FAMILY DWELLINGS.

3. HIGH-RISE STRUCTURES.
4. AT DOORS EQUIPPED WITH DELAYED EGRESS LOCKS.
5. THE STAIR SHAFT AND VESTIBULE OF SMOKEPROOF ENCLOSURES.
6. A STANDBY GENERATOR THAT IS INSTALLED FOR THE SMOKEPROOF ENCLOSURE MECHANICAL VENTILATION EQUIPMENT SHALL BE PERMITTED TO BE USED FOR SUCH STAIR SHAFT AND VESTIBULE POWER SUPPLY.
7. FOR THE PURPOSES OF THIS REQUIREMENT, EXIT ACCESS SHALL INCLUDE ONLY DESIGNATED STAIRS, AISLES, CORRIDORS, RAMPS, ESCALATORS AND PASSAGEWAYS LEADING TO AN EXIT. FOR THE PURPOSES OF THIS REQUIREMENT, EXIT DISCHARGE SHALL INCLUDE ONLY DESIGNATED STAIRS, RAMPS, AISLES, WALKWAYS AND ESCALATORS LEADING TO A PUBLIC WAY.

EXCEPTIONS:
1. TOWERS OCCUPIED BY THREE OR FEWER PERSONS SHALL BE EXEMPT FROM EMERGENCY LIGHTING REQUIREMENTS.
2. LOCATIONS IN TOWERS NOT ROUTINELY INHABITED BY HUMANS SHALL BE EXEMPT FROM EMERGENCY LIGHTING REQUIREMENTS.
3. WHEN APPROVED BY THE BUILDING OFFICIAL, ILLUMINATION OF MEANS OF EGRESS SHALL NOT BE REQUIRED IN TOWERS THAT ARE OCCUPIED ONLY DURING DAYLIGHT HOURS, WITH WINDOWS ARRANGED TO PROVIDE THE REQUIRED LEVEL OF ILLUMINATION ON ALL PORTIONS OF THE MEANS OF EGRESS DURING THESE HOURS.
4. WATER-SURROUNDED STRUCTURES IN LOCATIONS NOT ROUTINELY INHABITED BY HUMANS SHALL BE EXEMPT FROM EMERGENCY LIGHTING REQUIREMENTS.
5. WHEN APPROVED BY THE BUILDING OFFICIAL, ILLUMINATION OF MEANS OF EGRESS SHALL NOT BE REQUIRED IN WATER-SURROUNDED STRUCTURES THAT ARE OCCUPIED ONLY DURING DAYLIGHT HOURS, WITH WINDOWS ARRANGED TO PROVIDE THE REQUIRED LEVEL OF ILLUMINATION ON ALL PORTIONS OF THE MEANS OF EGRESS DURING THESE HOURS.

WHERE MAINTENANCE OF ILLUMINATION DEPENDS UPON CHANGING FROM ONE ENERGY SOURCE TO ANOTHER, A DELAY OF NOT MORE THAN 10 SECONDS SHALL BE PERMITTED.

PERFORMANCE OF SYSTEM

EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF HOURS 1% IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.

THE EMERGENCY LIGHTING SYSTEM SHALL BE ARRANGED TO PROVIDE THE REQUIRED ILLUMINATION AUTOMATICALLY IN THE EVENT OF ANY INTERRUPTION OF NORMAL LIGHTING, SUCH AS ANY FAILURE OF PUBLIC UTILITY OR OTHER OUTSIDE ELECTRICAL POWER SUPPLY. OPENING OF A CIRCUIT BREAKER OR FUSE OR ANY MANUAL ACT(S), INCLUDING ACCIDENTAL OPENING OF A SWITCH CONTROLLING NORMAL LIGHTING FACILITIES.

EMERGENCY GENERATORS PROVIDING POWER TO EMERGENCY LIGHTING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 110. STORED ELECTRICAL ENERGY SYSTEMS WHERE REQUIRED IN THIS CODE SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 111. BATTERY-OPERATED EMERGENCY LIGHTS SHALL USE ONLY RELIABLE TYPES OF RECHARGEABLE BATTERIES PROVIDED WITH SUITABLE FACILITIES FOR MAINTAINING THEM IN A PROPERLY CHARGED CONDITION. BATTERIES USED IN SUCH LIGHTS OR UNITS SHALL BE APPROVED FOR THEIR INTENDED USE AND SHALL COMPLY WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE. BUILDING.

THE EMERGENCY LIGHTING SYSTEM SHALL BE EITHER CONTINUOUSLY IN OPERATION OR SHALL BE CAPABLE OF REPEATED AUTOMATIC OPERATION WITHOUT MANUAL INTERVENTION.

STANDBY POWER

HIGH-RISE BUILDINGS SHALL BE PROVIDED WITH CLASS 1, TYPE 60 STANDBY POWER IN ACCORDANCE WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE. BUILDINGS AND NFPA 110. THE STANDBY POWER SYSTEM SHALL HAVE A CAPACITY AND RATING SUFFICIENT TO SUPPLY ALL REQUIRED EQUIPMENT. SELECTIVE LOAD PICKUP AND LOAD SHEDDING SHALL BE PERMITTED IN ACCORDANCE WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE. BUILDING. THE STANDBY POWER SYSTEM SHALL BE CONNECTED TO THE FOLLOWING:

1. EMERGENCY LIGHTING SYSTEM.
2. AT LEAST ONE ELEVATOR SERVING ALL FLOORS AND TRANSFERABLE TO ANY ELEVATOR.
3. MECHANICAL EQUIPMENT FOR SMOKEPROOF ENCLOSURES.

(SEE SECTION 405 FOR ADDITIONAL REQUIREMENTS FOR STANDBY POWER IN HIGH-RISE STRUCTURES.)

- EXITS SHALL BE MARKED BY AN APPROVED SIGN READILY VISIBLE FROM ANY DIRECTION OF EXIT ACCESS. EVERY EXIT SIGN SHALL BE SUITABLY ILLUMINATED BY A RELIABLE LIGHT SOURCE. EXTERNALLY AND INTERNALLY ILLUMINATED SIGNS SHALL BE VISIBLE IN BOTH NORMAL AND EMERGENCY LIGHTING.

EXCEPTION: MAIN EXTERIOR EXIT DOORS THAT OBVIOUSLY AND CLEARLY ARE IDENTIFIABLE AS EXITS.

- NEW SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS IN EXCESS OF THE RATED VIEWING DISTANCE OR 100 FEET (30 M) WHICHEVER IS LESS, FROM THE NEAREST SIGN.

- EVERY REQUIRED SIGN SHALL BE LOCATED AND OF SUCH SIZE, DISTINCTIVE COLOR AND DESIGN AS TO BE READILY VISIBLE AND SHALL PROVIDE CONTRAST WITHIN OR OTHER SIGNS. NO EQUIPMENT THAT IMPAIRS VISIBILITY OF AN EXIT SIGN SHALL BE PERMITTED. NOR SHALL THERE BE ANY BRIGHTLY ILLUMINATED SIGN OR OBJECT IN OR NEAR THE LINE OF VISION OF THE REQUIRED EXIT SIGN OF SUCH A CHARACTER AS TO DETRACT ATTENTION FROM THE EXIT SIGN. FLOOR PROXIMITY SIGNS, WHERE REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 1006.3.5.2 OR 1006.3.5.3.

- EXIT STAIR DOOR OR TACTILE SIGNAGE.

- TACTILE SIGNAGE STATING "EXIT" AND COMPLYING WITH ICC/ANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, SHALL BE INSTALLED ADJACENT TO THE LATCH SIDE OF THE DOOR 60 INCHES (1524 MM) ABOVE THE FINISHED FLOOR TO THE CENTER LINE OF THE SIGN.

- EXTERNALLY ILLUMINATED SIGNS SHALL HAVE THE WORD "EXIT" OR OTHER APPROPRIATE WORDING IN PLAINLY LEGIBLE LETTERS NOT LESS THAN 6 INCHES (152 MM) HIGH WITH THE PRINCIPAL STROKES OF LETTERS NOT LESS THAN 5/16 INCHES (7.9 MM) WIDE. THE WORD "EXIT" SHALL HAVE LETTERS OF A WIDTH NOT LESS THAN 2 INCHES (51 MM), EXCEPT THE LETTER "I" AND THE MINIMUM SPACING BETWEEN LETTERS SHALL BE NOT LESS THAN 3/8 INCHES (10 MM). SIGNS LARGER THAN THE MINIMUM ESTABLISHED IN THIS PARAGRAPH SHALL HAVE LETTER WIDTHS, STROKES AND SPACING IN PROPORTION TO THEIR HEIGHT. EXTERNALLY ILLUMINATED SIGNS SHALL BE ILLUMINATED BY NOT LESS THAN 5 FOOT-CANDLES (50 LUX) AT THE ILLUMINATED SURFACE AND SHALL HAVE A CONTRAST RATIO OF NOT LESS THAN 0.5.

EXCEPTIONS:

1. MARKING REQUIRED BY SECTION 1009.5.3.
2. GROUP R3 AND GROUP R4 (SMALL FACILITY) OCCUPANCIES.

- INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED IN ACCORDANCE WITH UL 924, STANDARD FOR SAFETY EMERGENCY LIGHTING POWER EQUIPMENT. THE VISIBILITY OF AN INTERNALLY ILLUMINATED SIGN SHALL BE THE EQUIVALENT OF AN EXTERNALLY ILLUMINATED SIGN THAT COMPLIES WITH SECTION 1006.3.5.

EXCEPTIONS:

1. MARKING REQUIRED BY SECTION 1009.5.3.
2. SIGNS IN COMPLIANCE WITH SECTIONS 1006.3.4 AND 1006.3.8.2.

- WHERE EMERGENCY LIGHTING FACILITIES ARE REQUIRED BY SECTION 1006.2, THE EXIT SIGNS SHALL BE ILLUMINATED BY THE EMERGENCY LIGHTING FACILITIES. THE LEVEL OF ILLUMINATION OF THE EXIT SIGN SHALL BE AT THE LEVELS PROVIDED IN ACCORDANCE WITH SECTION 1006.3.5 FOR THE REQUIRED EMERGENCY LIGHTING TIME DURATION AS SPECIFIED IN SECTION 1006.2.3.1, BUT SHALL BE PERMITTED TO DECLINE TO 60 PERCENT OF THE ILLUMINATION LEVEL AT THE END OF THE EMERGENCY LIGHTING TIME DURATION.

- WHERE THE DIRECTION OF TRAVEL TO THE NEAREST EXIT IS NOT APPARENT, A DIRECTIONAL SIGN COMPLYING WITH SECTIONS 1006.3.5 OR 1006.3.8 READING "EXIT" OR A SIMILAR DESIGNATION WITH A DIRECTIONAL INDICATOR SHOWING THE DIRECTION OF TRAVEL SHALL BE PLACED IN EVERY LOCATION. DIRECTIONAL SIGNS SHALL BE LISTED.

- THE DIRECTIONAL INDICATOR SHALL BE LOCATED OUTSIDE OF THE "EXIT" LEGEND, NOT LESS THAN 3/8 INCHES (10 MM) FROM ANY LETTER. THE DIRECTIONAL INDICATOR SHALL BE OF A CHEVRON TYPE AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM DISTANCE OF 40 FEET (12.2 M). A DIRECTIONAL INDICATOR LARGER THAN THE MINIMUM ESTABLISHED IN THIS SECTION SHALL BE PROPORTIONATELY INCREASED IN HEIGHT, WIDTH AND STROKE. THE DIRECTIONAL INDICATORS SHALL BE LOCATED AT THE END OF THE SIGN FOR THE DIRECTION INDICATED.

- WHERE FLOOR PROXIMITY EXIT SIGNS ARE REQUIRED, EXIT SIGNS SHALL BE PLACED NEAR THE FLOOR LEVEL IN ADDITION TO THOSE SIGNS REQUIRED FOR DOORS OR CORRIDORS. THESE SIGNS SHALL BE ILLUMINATED IN ACCORDANCE WITH SECTION 1006.4. EXTERNALLY ILLUMINATED SIGNS SHALL BE SIZED IN ACCORDANCE WITH SECTION 1006.3.5. THE BOTTOM OF THE SIGN SHALL BE AT LEAST 6 INCHES (152 MM) AND NO MORE THAN 8 INCHES (203 MM) ABOVE THE FLOOR. FOR EXIT DOORS, THE SIGN SHALL BE MOUNTED ON THE DOOR OR ADJACENT TO THE DOOR WITH THE NEAREST EDGE OF THE SIGN WITHIN 4 INCHES (102 MM) OF THE DOOR FRAME.

- WHERE FLOOR PROXIMITY EGRESS PATH MARKING IS REQUIRED, A LISTED AND APPROVED FLOOR PROXIMITY EGRESS PATH MARKING SYSTEM THAT IS INTERNALLY ILLUMINATED SHALL BE INSTALLED WITHIN 18 INCHES (457 MM) OF THE FLOOR. THE SYSTEM SHALL PROVIDE A VISIBLE DELINEATION OF THE PATH OF TRAVEL ALONG THE DESIGNATED EXIT ACCESS AND SHALL BE ESSENTIALLY CONTINUOUS, EXCEPT AS INTERRUPTED BY DOORWAYS, HALLWAYS, CORRIDORS OR OTHER SUCH ARCHITECTURAL FEATURES. THE SYSTEM SHALL OPERATE CONTINUOUSLY OR AT ANY TIME THE BUILDING FIRE ALARM SYSTEM IS ACTIVATED. THE ACTIVATION, DURATION AND CONTINUITY OF OPERATION OF THE SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 1006.2.

- SIGNS INSTALLED AS PROJECTIONS ON A WALL OR CEILING WITHIN THE MEANS OF EGRESS SHALL PROVIDE VERTICAL CLEARANCE NO LESS THAN 80 INCHES (2134 MM) FROM THE WALKING SURFACE.

FIREBLOCKING REQUIREMENTS

FIREBLOCKING:

- IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE.

- BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE ALLOWED AS FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.
- FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:

- A. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
- B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

- FIREBLOCKING SHALL BE PROVIDED AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED HORIZONTAL SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS OR TRUSSES, AND BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS AND SIMILAR LOCATIONS.

- FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL ALSO COMPLY WITH FBC04 SECTION 1019.1.5.
- CEILING AND FLOOR OPENINGS: WHERE ANNULAR SPACE PROTECTION IS PROVIDED IN ACCORDANCE WITH FBC07 EXCEPTION 6, SEC. 707.2, EXCEPTION 1, SEC. 712.4.2, OR SEC. 712.4.3, FIREBLOCKING SHALL BE INSTALLED AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION. FACTORY-BUILT CHIMNEYS AND FIREPLACES SHALL BE FIREBLOCKED IN ACCORDANCE WITH UL 103 AND UL 127.

- ARCHITECTURAL TRIM: FIREBLOCKING SHALL BE INSTALLED WITHIN CONCEALED SPACES OF EXTERIOR WALL FINISH AND OTHER EXTERIOR ARCHITECTURAL ELEMENTS WHERE PERMITTED TO BE OF COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN FBC04, SEC. 1406 OR WHERE ERECTED WITH COMBUSTIBLE FRAMES, AT MAXIMUM INTERVALS OF 20'. IF NONCONTINUOUS, SUCH ELEMENTS SHALL HAVE CLOSED ENDS, WITH AT LEAST 4" OF SEPARATION BETWEEN SECTIONS. FIREBLOCKING SHALL NOT BE REQUIRED WHERE INSTALLED ON NONCOMBUSTIBLE FRAMING AND THE FACE OF THE EXTERIOR WALL FINISH EXPOSED TO THE CONCEALED SPACE IS COVERED BY ONE OF THE FOLLOWING MATERIALS:

- A. ALUMINUM HAVING A MINIMUM THICKNESS OF 0.019".
- B. CORROSION-RESISTANT STEEL HAVING A BASE METAL THICKNESS NOT LESS THAN 0.016" AT ANY POINT.

- C. OTHER APPROVED NONCOMBUSTIBLE MATERIALS.

- WHERE WOOD SLEEPERS ARE USED FOR LAYING WOOD FLOORING ON MASONRY OR CONCRETE FIRE-RESISTANCE-RATED FLOORS, THE SPACE BETWEEN THE FLOOR SLAB AND THE UNDERSIDE OF THE WOOD FLOORING SHALL BE FILLED WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION OR FIREBLOCKED IN SUCH A MANNER THAT THERE WILL BE NO OPEN SPACES UNDER THE FLOORING THAT WILL EXCEED 100 SF IN AREA AND SUCH SPACE SHALL BE FILLED SOLIDLY UNDER PERMANENT PARTITIONS SO THAT THERE IS NO COMMUNICATION UNDER THE FLOORING BETWEEN ADJOINING ROOMS.

FIREBLOCKING MATERIALS:

- 2" NOMINAL LUMBER OR TWO THICKNESSES OF 1" NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 0.719" WOOD STRUCTURAL PANEL WITH JOINTS BACKED BY 0.719" WOOD STRUCTURAL PANEL OR ONE THICKNESS OF 0.75" PARTICLEBOARD WITH JOINTS BACKED BY 0.75" PARTICLEBOARD.
- GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIREBLOCK. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10" HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROWS OF STUDS OR STAGGERED STUDS.
- LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. THE INTEGRITY OF FIREBLOCKS SHALL BE MAINTAINED.

DRAFTSTOP REQUIREMENTS

DRAFTSTOPPING IN FLOORS:

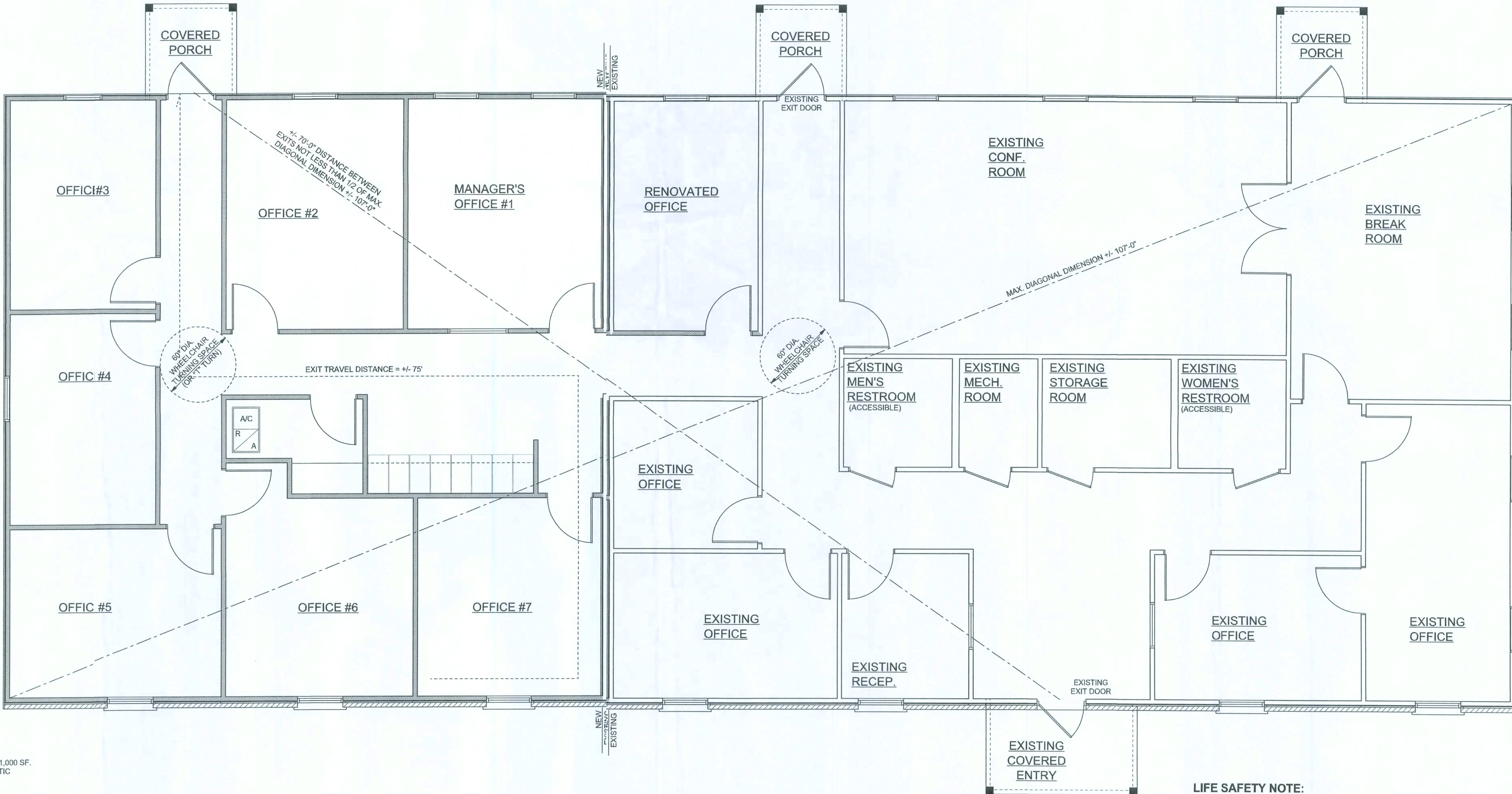
DRAFTSTOPPING SHALL BE INSTALLED SO THAT HORIZONTAL FLOOR AREAS DO NOT EXCEED 1,000 SF. (DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.)

DRAFTSTOPPING IN ATTICS:

- IN COMBUSTIBLE CONSTRUCTION DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SF (DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM).
- OPENINGS IN THE PARTITIONS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES CONSTRUCTED AS REQUIRED FOR THE PARTITIONS.

DRAFTSTOPPING MATERIALS:

DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 0.5" GYPSUM BOARD, 0.375" WOOD STRUCTURAL PANEL, 0.375" PARTICLEBOARD OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. THE INTEGRITY OF DRAFTSTOPS SHALL BE MAINTAINED.



REVISIONS	

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

ENGINEER OF RECORD: Mark Disoway,
PE No. 53010, P.O. Box 868, Lake City, FL
32056, 386-54-5419

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: These plans and Cover Sheet A-0, as such, comply with applicable portions of the 2010 Florida Building Code to the best of my knowledge.

LIMITATION: This design is valid for one building at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities control.



Bryant Construction Co.

Myo Fertilizer & Farm Supply Office Addition (Mike Shaw)

ADDRESS:
41 NE McCloskey Av
Lake City, FL 32055
Mark Disoway P.E.
P.O. Box 868
Lake City, Florida 32025
Phone: (386) 754-5419
Fax: (386) 269-4871
windosengr@bellsouth.net

PRINTED DATE:
July 06, 2012

DRAWN BY: Evan Beasley
CHECKED BY:

FINALES DATE:
2012-07-06

JCB NUMBER:
1205066

DRAWING NUMBER

3

OF 8 SHEETS

LIFE SAFETY NOTE:

It is contractor / owner's responsibility to request life safety review by the fire marshal. All life safety requirements are to be as specified by the fire marshal. Emergency lighting and exit signs shall be provided as directed by the fire marshal and shall be wired per nec 700-121. Emergency lighting and exit sign locations shown on the plans are suggestions only.

HVAC DESIGN NOTE:

The 2010 Florida Building Code, and Florida Building Code, Mechanical and Fuel Gas shall govern the heating, air conditioning, refrigeration, mechanical ventilation and plenums and the design and construction of factory-built chimneys, fireplaces and barbecues in this building.

Plans and design for HVAC system in this building are to be furnished by the HVAC contractor to the engineer of record, the owner, and the building official for approval prior to construction or ordering any materials.

2010 FBC. Does not require sealed engineering documents to be prepared by or under the direction of an engineer registered under chapter 471 Florida Statutes for heating, ventilation, and air-conditioning systems for any new building or addition which requires not more than a 15-ton-per-system capacity which is designed to accommodate less than 100 persons and for which the system costs not more than \$50,000. An air-conditioning system may be designed by an installing air-conditioning contractor certified under Chapter 489, Florida Statutes to serve any building or addition which is designed to accommodate fewer than 100 persons and requires an air-conditioning system with value of \$50,000 or less; and when a 15-ton-per system or less is designed for a singular space of a building and each 15-ton system or less has an independent duct system. Systems not complying with the above require design documents that are to be sealed by a professional engineer.

The mechanical plans should meet the following requirements:

1. Energy calculations
2. Exhaust systems:
 - Clothes dryer exhaust
 - Kitchen equipment exhaust
 - Specialty exhaust systems
3. Equipment
4. Equipment location
5. Make-up air
6. Roof-mounted equipment
7. Duct systems
8. Ventilation
9. Combustion air
10. Chimneys, fireplaces and vents
11. Appliances
12. Boilers
13. Refrigeration
14. Bathroom ventilation
15. Laboratory

Gas plans should meet the following requirements:

1. Gas piping
2. Venting
3. Combustion air
4. Chimneys and vents
5. Appliances
6. Type of gas
7. Fireplaces
8. LP tank location
9. Riser diagram/shutoffs

Design of Heating, Ventilation and Air Conditioning Systems.

(1) Heating, Ventilating, and Air Conditioning (HVAC) Systems are those systems that control the temperature and/or humidity of a particular space or building. Items to be considered in the design and analysis of these systems are ambient dry and wet bulb temperatures, inside dry and wet bulb temperatures, inside design humidity, fresh air makeup, internal heat gains from any sources.

Ventilation systems shall be designed to remove foul odors from a space or building, or to remove space heat from equipment rooms. All HVAC systems shall be designed in accordance with the ASHRAE Standards and Building Code as adopted by the authority having jurisdiction. The HVAC systems shall be designed and operated such that the entire building is under positive or neutral pressure when all primary HVAC systems are operating.

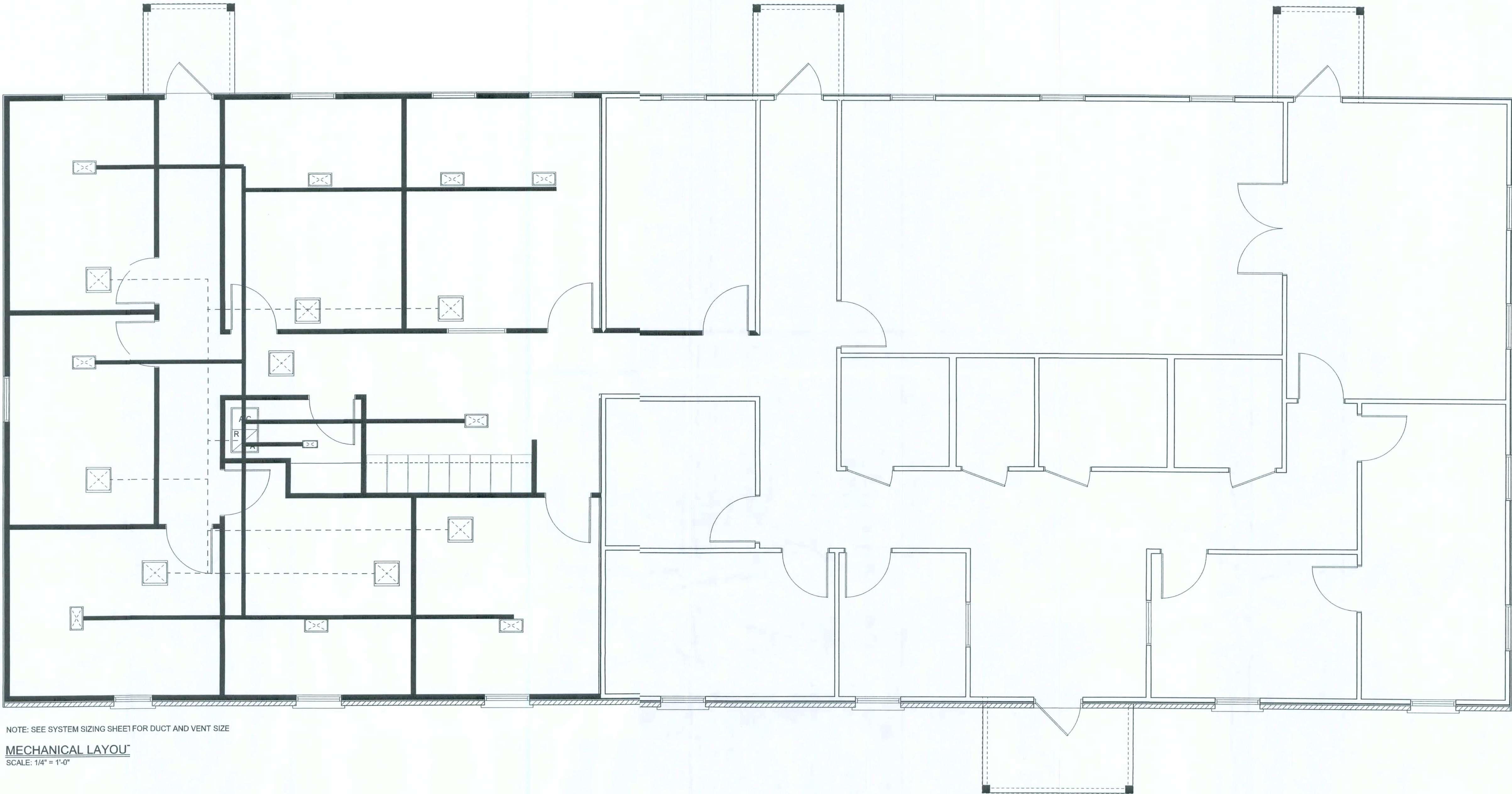
(2) "Design" documents applicable to HVAC systems shall, where applicable, include but are not limited to the following:

- (a) Equipment selection schedule for each piece of mechanical equipment. All equipment shall have capacities listed including efficiencies, electrical or fuel requirements, static pressure and fan air quantities as applicable to the system, fluid flow and pressure head quantities as applicable to the system, and heat transfer capacities.
- (b) Floor plans, site plans, and building and mechanical system elevations as appropriate.
- (c) Outside (fresh) air make-up conditions.
- (d) Cooling coil requirements based on sensible heat, latent heat and total heat gains.
- (e) Heating equipment requirements.
- (f) Outside and inside design dry and wet bulb conditions.
- (g) Exhaust riser diagrams.
- (h) Outside air riser diagrams.
- (i) Process flow diagrams with pipe sizes and fluid flow quantities.
- (j) Condensate discharge piping with pipe sizes.
- (k) Instrumentation and Control System diagrams and sequence of operation.
- (l) Ductwork layout and sizing; insulation, supply, return, and exhaust inlet and outlet sizes; and outside air intake sizes. Air quantities shall be specified for inlets and outlets.
- (m) Florida Energy Code calculations as applicable.
- (n) NFPA Standards and all required fire protection devices and systems.

ENERGY EFFICIENCY NOTE:

The 2010 Florida Building Code, Energy Conservation, shall govern design of building envelopes for adequate thermal resistance and low air leakage and design and selection of mechanical, electrical, and illumination systems and equipment which will enable the effective use of energy in this building project.

Important Note: A sealed copy of Form 400 for this project is incorporated in these plans by reference. There are equipment and material requirements and specifications in Form 400 which do not appear anywhere else in the plans. Construction must comply with the sealed Form 400. Conflicts between Form 400 and any other construction or contract documents are to be resolved by the builder prior to construction or ordering of materials.



NOTE: SEE SYSTEM SIZING SHEET FOR DUCT AND VENT SIZE

MECHANICAL LAYOUT

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

REVISIONS

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ARCHITECTURAL DESIGN SOFTWARE

Bryant
Construction Co.

Mayo Fertilizer
& Farm Supply
Office Addition
(Mike Shaw)

ADDRESS:
413NE McCloskey Av
Lac City, FL 32055

Bounds Heating & Air, Inc
(52) 472-2761
(32) 472-1809 fax
P.O. Box 1617
25645 W Newberry Rd
Newberry, FL 32669

PRINTED DATE:
July 06, 2012

DRAWN BY: Evan Beasley	CHECKED BY:
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FINALES DATE:
2012-0-06

JOB NUMBER:
1205066

DRAWING NUMBER

M-1

OF 8 SHEETS

REVISIONS	



ELECTRICAL DESIGN NOTE:

The 2010 Florida Building Code and NFPA shall govern the electrical systems in this building project. Where provisions conflict, 2010 FBC shall govern.

Plans and design for electrical system in this building are to be furnished by the electrical contractor to the engineer of record, the owner, and the building official for approval prior to construction or ordering any materials.

2010 FBC, Does not require sealed engineering documents to be prepared by or under the direction of an engineer registered under chapter 471 Florida Statutes for electrical systems for any new building or addition which requires an aggregate service capacity of not more than 600 amperes (240 volts) on a residential electrical system or 800 amperes (240 volts) on a commercial or industrial electrical system and which costs not more than \$50,000.

The electrical plans should meet the following requirements:

- 1. Electrical:
 - Wiring
 - Services
 - Feeders and branch circuits
 - Overcurrent protection
 - Grounding
 - Wiring methods and materials
 - GFCIs
- 2. Equipment
- 3. Special occupancies
- 4. Emergency systems
- 5. Communication systems
- 6. Low voltage
- 7. Load calculations

Design of Power Systems:
(1) Power systems convey or distribute electrical energy. Items to be included in the design and analysis of these systems are: steady state and transient loads, short circuit protection (design and analysis), load flow, voltage drop, harmonics, and protective device coordination.
(2) "Design" documents applicable to power systems shall at a minimum indicate the following:
(a) System Riser Diagram
(b) Conductor Ampacities (sizes) and insulation type
(c) Protection devices and interrupting capability
(d) Main and distribution panelboard locations and sizes
(e) Circuitry of all outlets and devices
(f) Short circuit analysis
(g) Load computations
(h) Electrical legend
(i) Grounding and bonding
(j) Instrumentation control

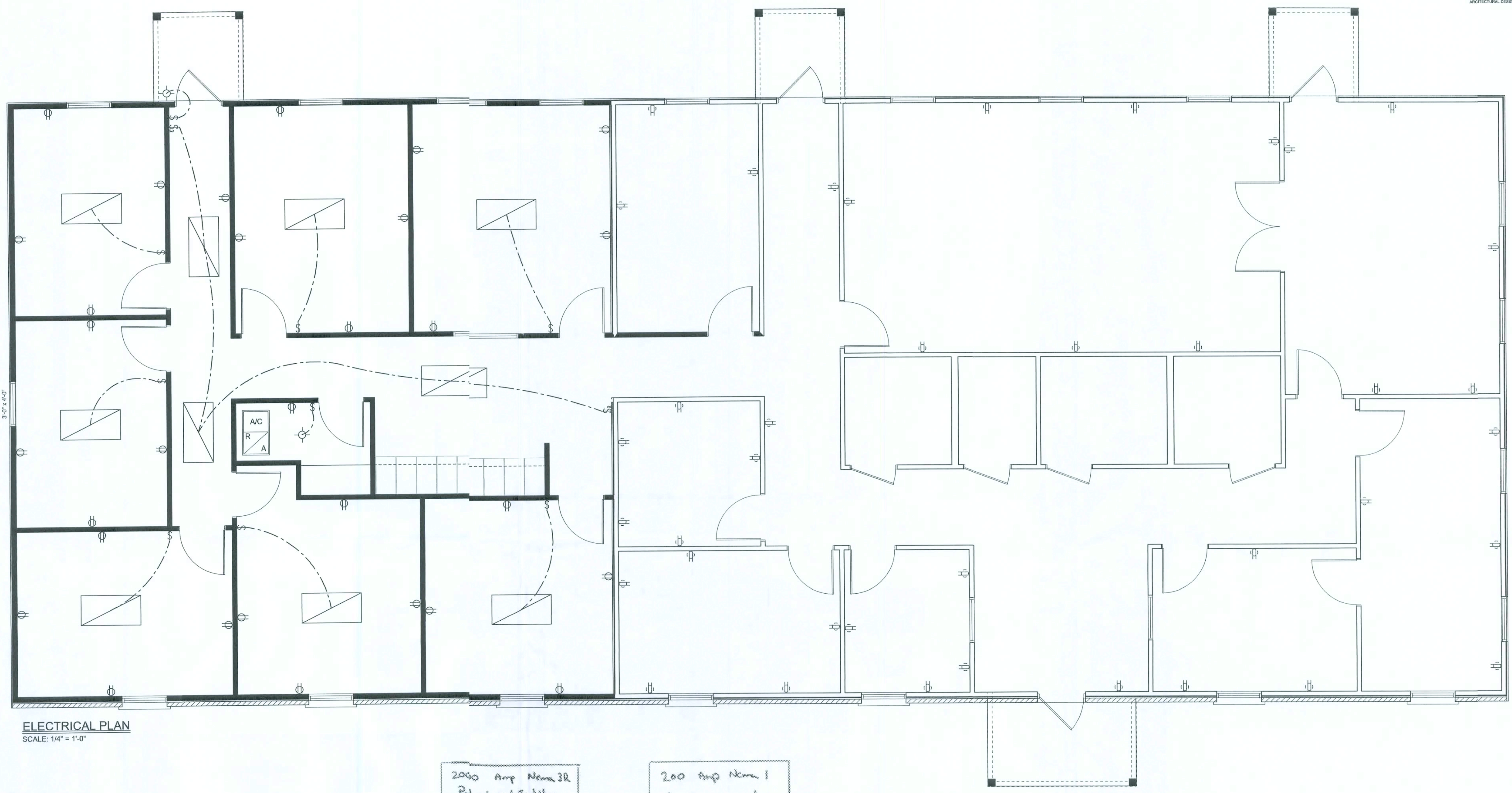
Design of Lighting Systems:
(1) Lighting systems convert electrical energy into light. Items to be included in the lighting design and analysis are: Average Illuminance, Equivalent spherical illuminance, Uniformity ratios, Visual comfort probability, special purpose lighting, and the requirements of the Florida Energy Efficiency Code, part IX, Chapter 553, Florida Statutes.
(2) "Design" documents for lighting systems shall, at a minimum, indicate the following:
(a) Lighting fixture performance specifications and arrangements
(b) Emergency Lighting
(c) Exit Lighting
(d) Lighting Control and circuiting

Design of Communications Systems:
(1) Communications systems are utilized to convey messages or data. Items to be included in the design or analysis of these systems are: Human factors engineering, cabling requirements, installation requirements, performance requirements, backup power requirements, the interrelationship of the various systems, and applicable regulatory requirements.
(2) "Design" documents for communications systems shall, at a minimum, indicate the following:
(a) System riser diagram
(b) Equipment legend
(c) Conductor type and installation requirements
(d) Device type and locations
(e) Backup power sources where applicable

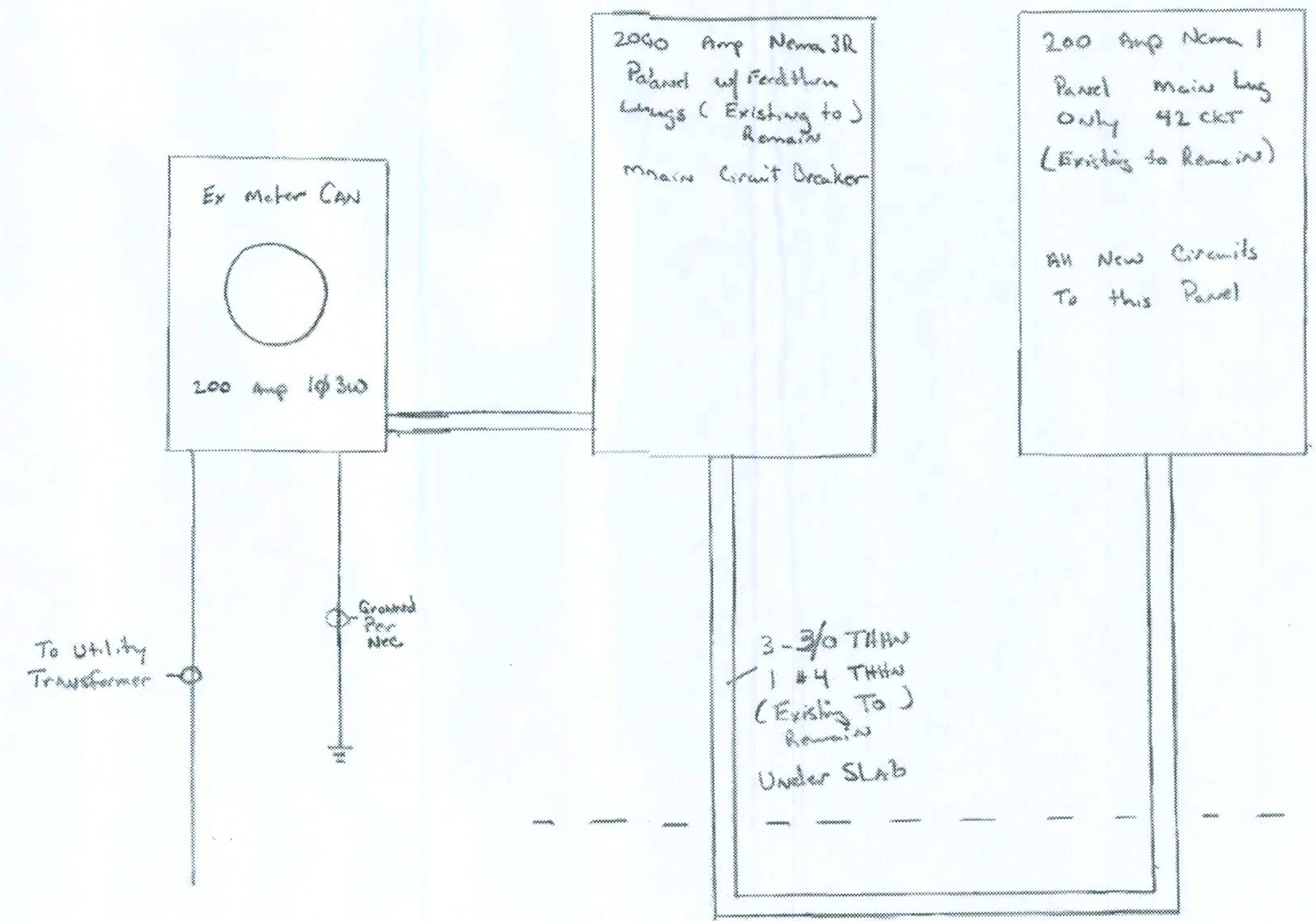
Design of Alarm Systems:
(1) Alarm systems are used to monitor and alarm a fire or other emergency condition. Items to be included in the design or analysis of these systems are: structure alarm requirements, location and audibility, types of alarms and initiation devices, notification requirements, installation requirements, backup power requirements, applicable regulatory requirements, and the provisions of rule 61G15-32.007, F.A.C.
(2) Design documents for alarm systems shall, at a minimum, indicate the following:
(a) System riser diagram
(b) Device types and locations
(c) Type of conductors and installation requirements including rating identification and listing requirements
(d) Notification requirements
(e) Backup power requirements
(f) Where applicable, backup power sources and inter-ties to other systems/components

Design of Lightning Protection Systems:
(1) Lightning Protection Systems are passive systems used to protect building and structures from damage caused by lightning and static discharges. Items to be considered in the design or analysis of this system include the requirements of NFPA-78.
(2) "Design" documents for lightning protection systems shall indicate:
(a) Air terminals height and spacing
(b) Arrangement of Main and Down conductors
(c) Grounding points and spacing
(d) Legend
(e) Testing requirements of grounds

Design of Grounding Systems:
(1) Grounding Systems are passive systems used to establish an electrical potential reference point in an electrical system for the proper dissipation of energy in case of abnormal or transient conditions.
(2) Design documents for grounding systems shall indicate at a minimum the following:
(a) type and location of grounding electrodes
(b) bonding requirements
(c) testing requirements
(d) conductor material type, size and protection requirements
(e) separate grounding systems, properly bonded, per code and use requirements



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



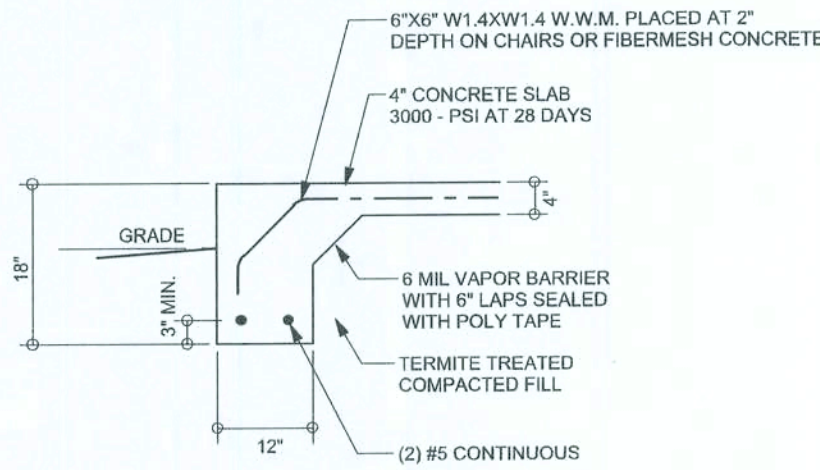
Re: Mayo Fertilizer	
Permit	
Load Calculation	
120/240 Volt Single Phase 3 Wire	
Lighting Loads	
4000 Sq Ft @ 3 VA Per Sq. Ft.=	12,000 VA
Water Heater	
1 @ 4500 Va Each =	4,500 VA
Air Handling Unit	
2 @ 10,000 Va Each =	20,000 VA
Total	
36,500 VA / 240 =	152.08 Amps

Bryant Construction Co.
Nayo Fertilizer & Farm Supply Office Addition (Mike Shaw)
ADDRESS:
43 NE McCloskey Av
Lake City, FL 32055

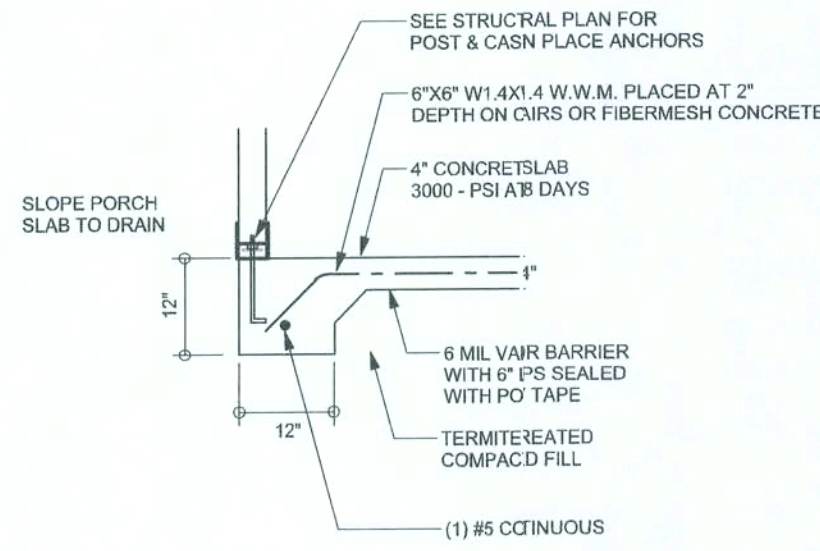
PRINTED DATE:
July 06, 2012
DRAWN BY:
Evan Bumsley
CHECKED BY:

FINALIS DATE:
2012-07-06

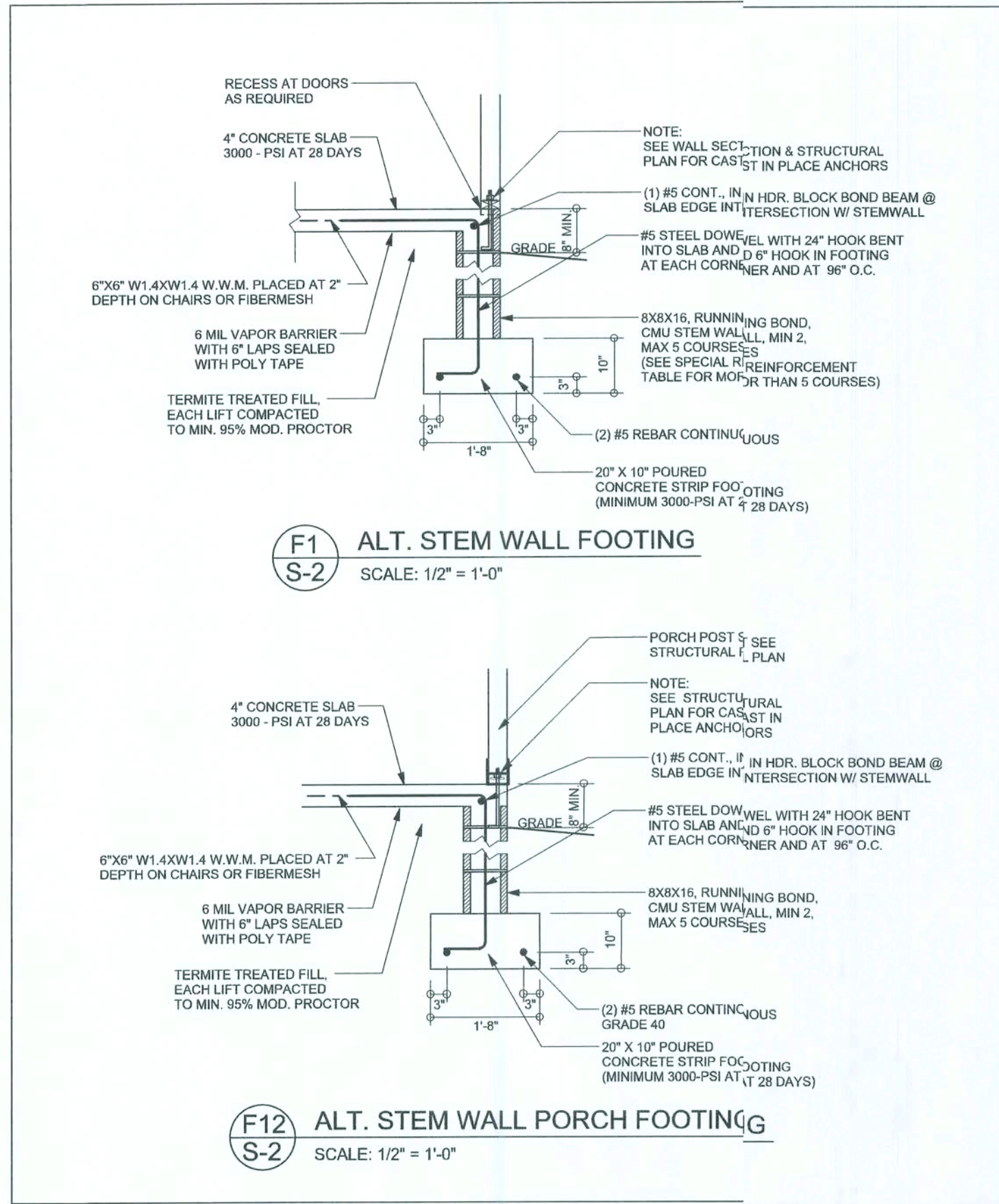
.OB NUMBER:
1205066
DRAWING NUMBER
E-1
OF 8 SHEETS



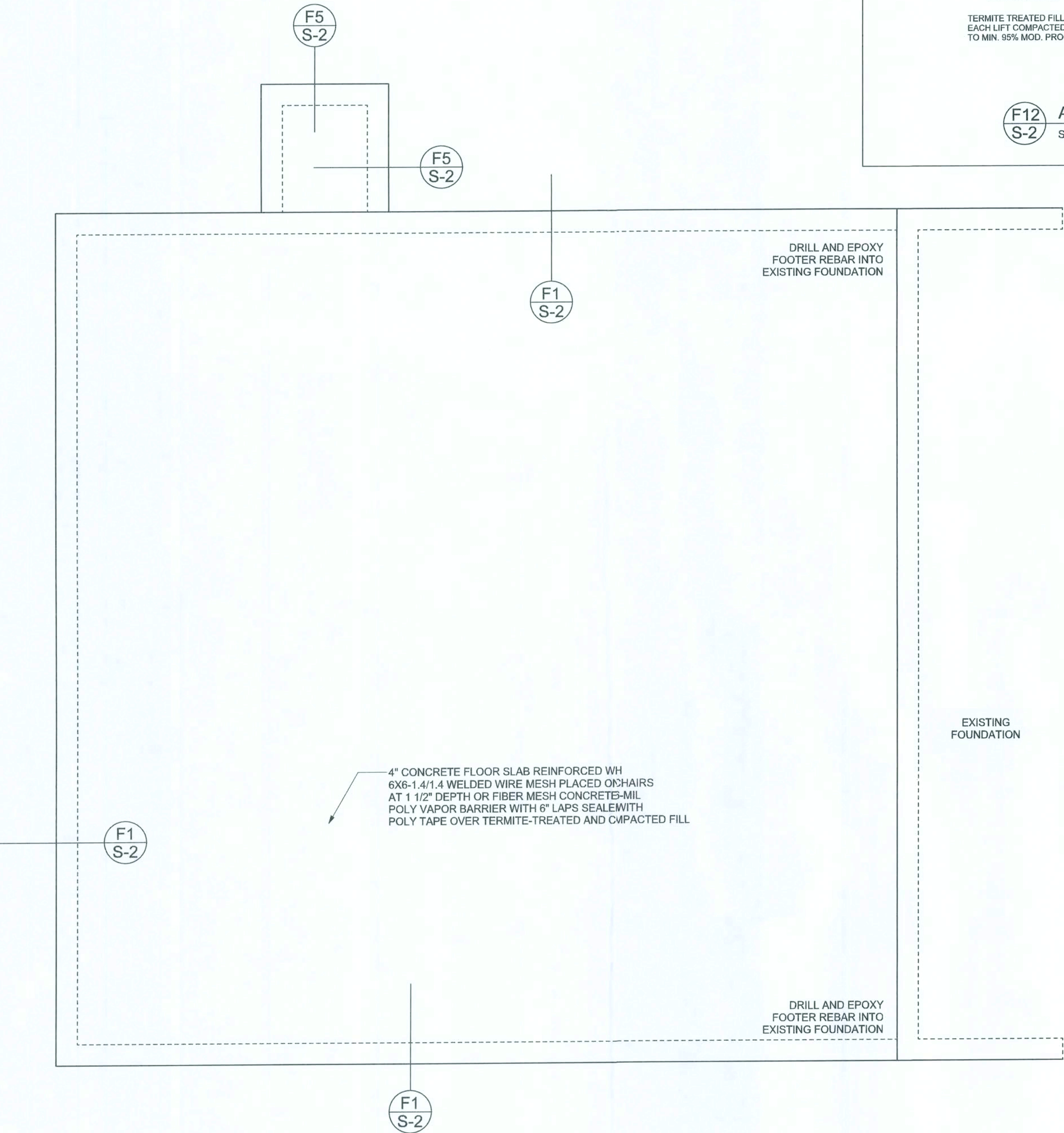
F1 S-2 MONOLITHIC FOOTING
SCALE: 1/2" = 1'-0"



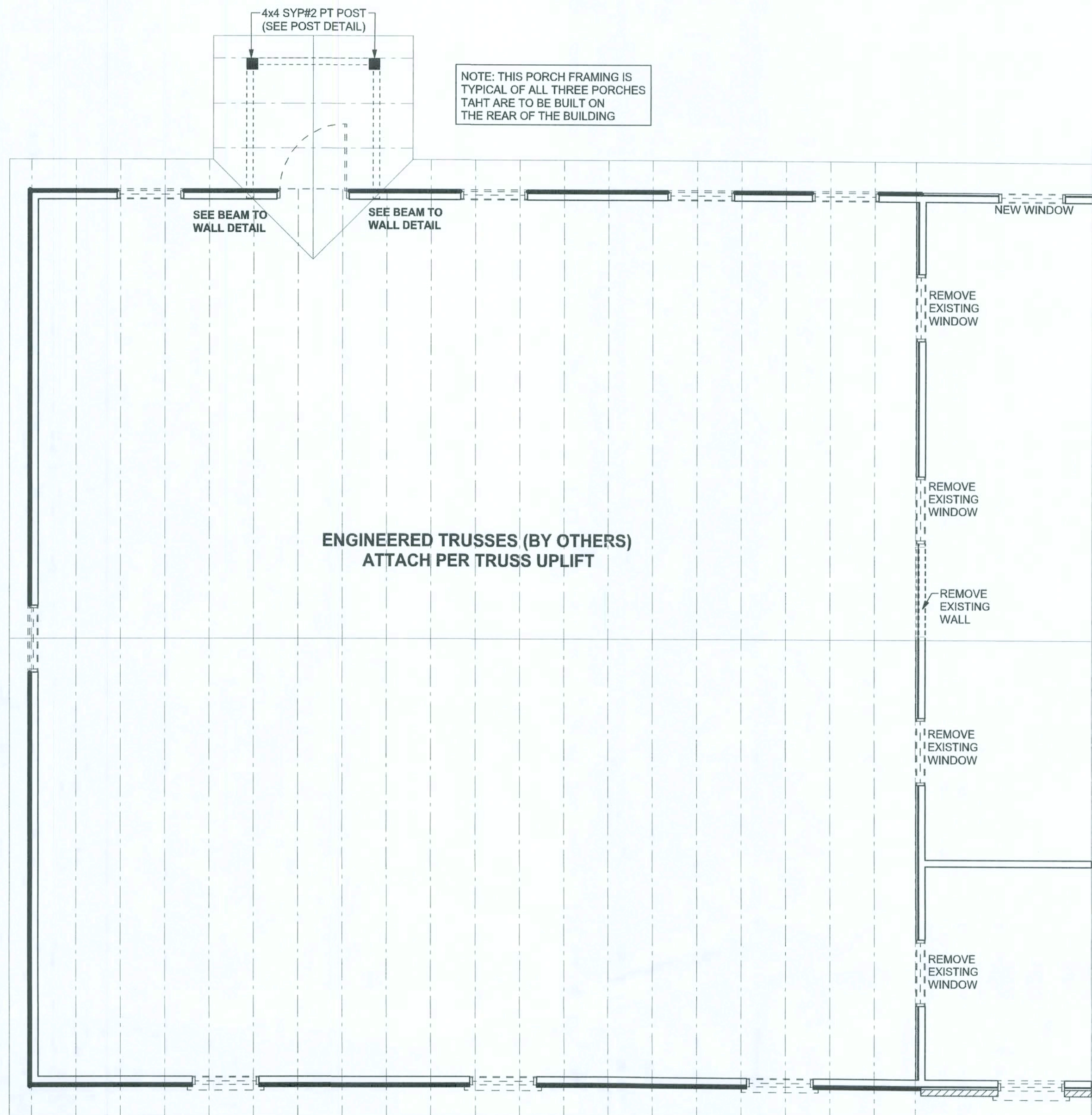
F5 S-2 PORCH FOOTING
SCALE: 1/2" = 1'-0"



F12 S-2 ALT. STEM WALL PORCH FOOTING
SCALE: 1/2" = 1'-0"



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"
DIMENSIONS ON STRUCTURAL SHEETS
ARE NOT EXACT. REFER TO ARCHITECTURAL
FLOOR PLAN FOR ACTUAL DIMENSIONS



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

STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X10 SYP#2 (U.N.O.)
- SN-2 ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
- SN-3 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
- SN-4 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCSI-03, BCSI-B1, BCSI-B2, & BCSI-B3, BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

WALL LEGEND

	EXTERIOR WALL
	INTERIOR NON-LOAD BEARING WALL
	INTERIOR LOAD BEARING WALL w/ NO UPLIFT
	INTERIOR LOAD BEARING WALL w/ UPLIFT

HEADER LEGEND

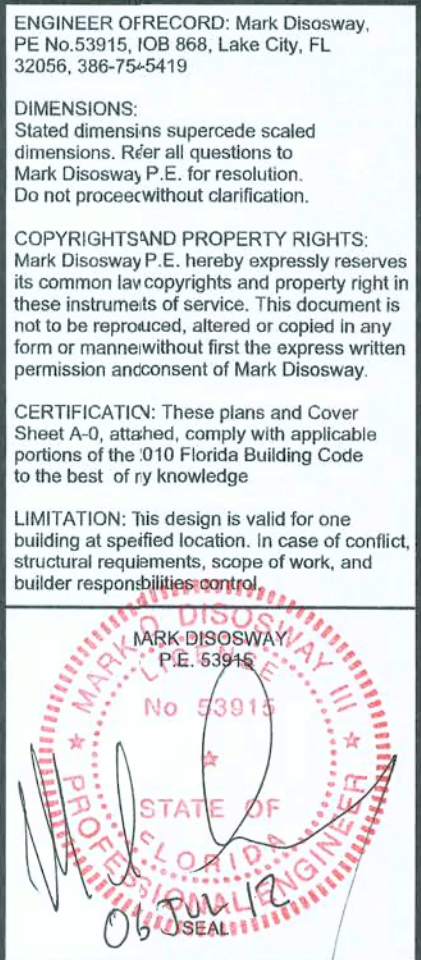
(2) 2X12X0'1J 1K	HEADER/BEAM CALL-OUT (U.N.O.)
	NUMBER OF KING STUDS (FULL LENGTH)
	NUMBER OF JACK STUDS (UNDER HEADER)
	SPAN OF HEADER
	SIZE OF HEADER MATERIAL
	NUMBER OF PLIES IN HEADER

TOTAL SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	30.3'	37.0'
LONGITUDINAL	32.4'	53.0'

REVISIONS

SCOTT PLAN
ARCHITECTURAL DESIGN FOR TRADE



Bryant Construction Co.

Maio Fertilizer & Farm Supply Office Addition (Mike Shaw)

ADDRESS:
413 NE McCloskey Av
Lake City, FL 32055
MarkDisosway P.E.
P.O. Box 868
Lake City, Florida 32025
Phone: (386) 754 - 5419
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windloadingengineer@bellsouth.net

PRINTED DATE:
Jul 06, 2012

DRAWN BY:
Evan Beamley

CHECKED BY:

FINALES DATE:
2012-07-06

JOB NUMBER:
1205066

DRAWING NUMBER

S-2

OF 8 SHEETS

THE CONTRACTOR IS TO ADHERE TO THE EASC PLAN FROM BEGINNING OF EARTHWORK UNTIL THE AS-BUILTS ARE COMPLETE. MAINTENANCE ITEMS FOR EROSION ARE TO BE STRICTLY ADHERED TO WITH NO EXCEPTIONS.

SITE DEVELOPMENT INFORMATION

IMPERVIOUS AREAS:	
OFFICE BUILDING	2,400 S.F.
BAG BUILDING	4,800 S.F.
STORAGE/BLENDING BUILDING	35,214 S.F.
CONCRETE PAVEMENT/SIDEWALK	462 S.F.
ASPHALTIC PAVEMENT & DRIVES	45,116 S.F.

TOTAL IMPERVIOUS AREAS	87,992 SF,
RETENTION BASIN AREA	132,000 SF,
TOTAL LOT AREA (24145 ACRES)	1051,751 SF,
% OF LOT COVERAGE BY BUILDINGS/PAVEMENT	8.4 %

3200 CR 411
E OAK FLORIDA 32050
904/352-4757
ENG LIC EG 3761

KEEN ENGINEERING
& SURVEYING, INC.

LAKE CITY, FLORIDA

DATE	
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Curtis Keen
7/27/06