

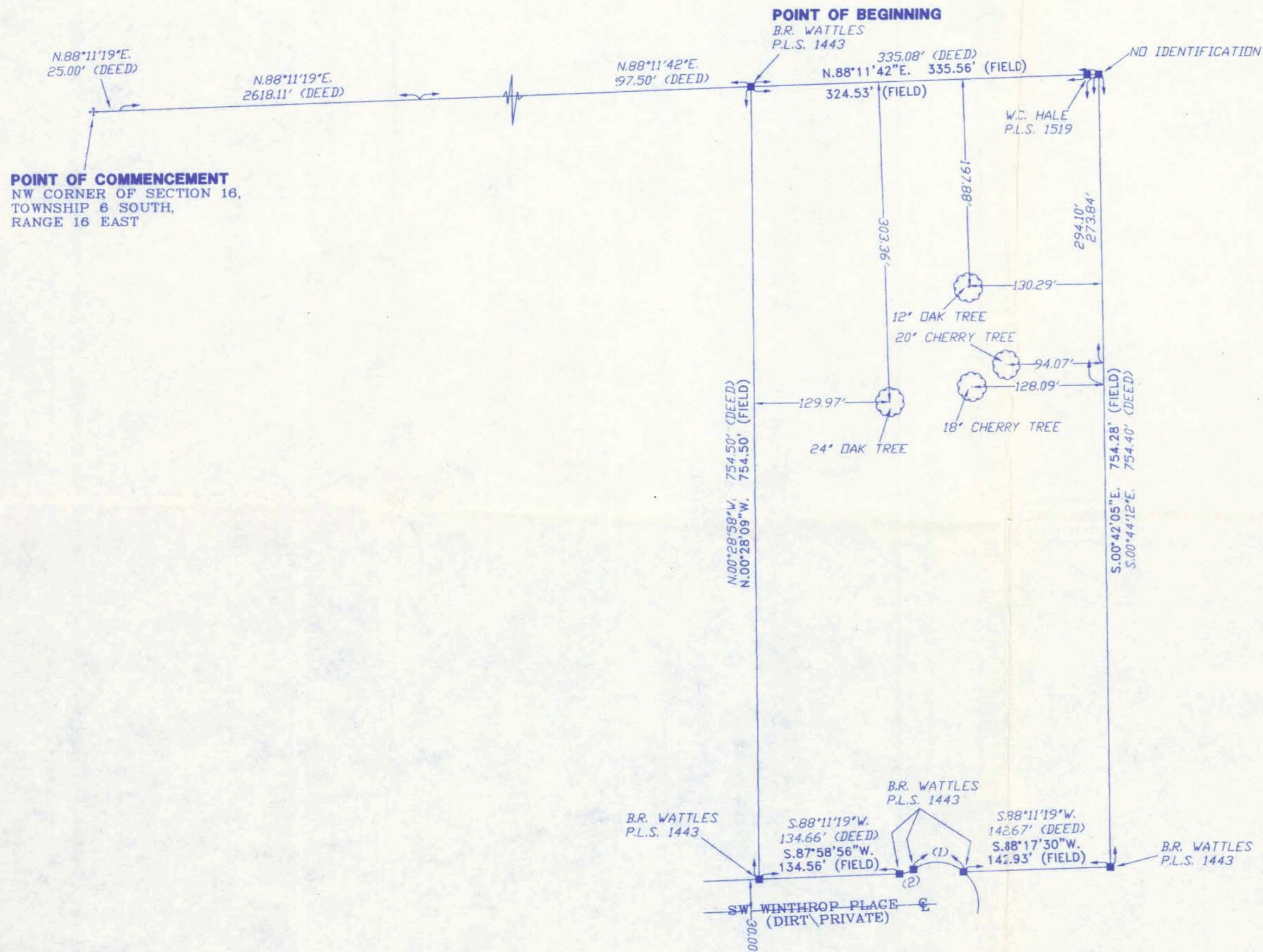
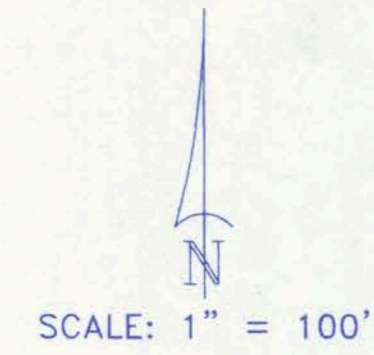
A BOUNDARY SURVEY IN SECTION 16, TOWNSHIP 6 SOUTH,
RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

CURVE TABLE

NO.	RADIUS	DELTA	ARC	TANGENT	CHORD	CHORD BEARING
1	40.00'	73°39'30"	51.42'	29.96'	47.95'	S.87°06'48"E
PLAT	40.00'		51.39'		47.93'	S.87°12'31"E
2	25.00'	32°13'34"	14.06'	7.22'	13.88'	S.72°13'19"W
PLAT	25.00'		14.05'		13.87'	S.72°05'11"W

SYMBOL LEGEND:

■	4"x4" CONCRETE MONUMENT FOUND
□	4"x4" CONCRETE MONUMENT SET
●	IRON PIPE FOUND
○	IRON PIN AND CAP SET
⊕	POWER POLE
▲	WATER METER
⊕	CENTERLINE
*	WELL
⊙	SATELLITE DISH
⊙	TELEPHONE BOX
-E-	ELECTRIC LINES
-X-	WIRE FENCE
-○-	CHAIN LINK FENCE
-□-	WOODEN FENCE



DESCRIPTION:
LOT 48 IN SPRING RUN SUBDIVISION, AN UNRECORDED SUBDIVISION, AN UNRECORDED SUBDIVISION AS MORE PARTICULARLY DESCRIBED AS FOLLOWS:
AN UNRECORDED SUBDIVISION BEING IN A PART OF THE WEST 1/2 OF SECTION 16 AND ALL OF THE WEST 1/2 OF THE NE 1/4 OF SECTION 16, TOWNSHIP 6 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE NW CORNER OF SAID SECTION 16, AND RUN N.88°11'19"E, 25.00 FEET TO THE EAST RIGHT-OF-WAY LINE OF LAZY DAK ROAD (A 50 FOOT WIDE COUNTY MAINTAINED DIRT ROAD AS NOW ESTABLISHED); THENCE CONTINUE ALONG THE NORTH LINE OF SAID SECTION 16, N.88°11'19"E, A DISTANCE OF 2618.11 FEET; THENCE CONTINUE N.88°11'42"E, 997.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.88°11'42"E, 335.08 FEET TO ITS INTERSECTION WITH THE EASTERLY LINE OF THE WEST 1/2 OF THE NE 1/4 OF SECTION 16, TOWNSHIP 6 SOUTH, RANGE 16 EAST; THENCE S.00°44'12"E, 754.40 FEET; THENCE S.88°11'19"W, 142.67 FEET TO ITS INTERSECTION WITH THE NORTHERLY RIGHT-OF-WAY LINE OF A 60 FOOT WIDE ROAD HAVING A RADIUS OF 40.00 FEET AND A CHORD BEARING AND DISTANCE OF N.87°12'31"W, AND 47.93 FEET; THENCE WESTERLY ALONG THE ARC OF SAID CURVE 51.39 FEET TO THE POINT OF REVERSE CURVE SAID CURVE BEING CONCAVE TO THE RIGHT AND HAVING A RADIUS OF 25.00 FEET AND A CHORD BEARING AND DISTANCE OF S.72°05'11"W, AND 13.87 FEET; THENCE CONTINUE ALONG THE ARC OF SAID CURVE 14.05 FEET TO A POINT OF TANGENCY OF SAID CURVE; THENCE CONTINUE ALONG THE NORTHERLY RIGHT-OF-WAY LINE S.88°11'19"W, 134.66 FEET; THENCE N.00°28'58"W, 754.50 FEET TO THE POINT OF BEGINNING. CONTAINING 5.71 ACRES, MORE OR LESS.

- SURVEYOR'S NOTES:
- BOUNDARY BASED ON MONUMENTATION FOUND.
 - BEARINGS ARE BASED ON A DEED OF RECORD AS HANDED THIS OFFICE.
 - THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0225 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
 - THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
 - IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
 - THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.
 - NO LEGAL DESCRIPTION WAS PROVIDED TO THIS OFFICE FOR ACCESS.

CERTIFIED TO:
TED CAMPBELL

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

02/14/06 FIELD SURVEY DATE
02/20/06 DRAWING DATE

Scott Britt
R. SCOTT BRITT, P.S.M.
CERTIFICATION # 5757

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.



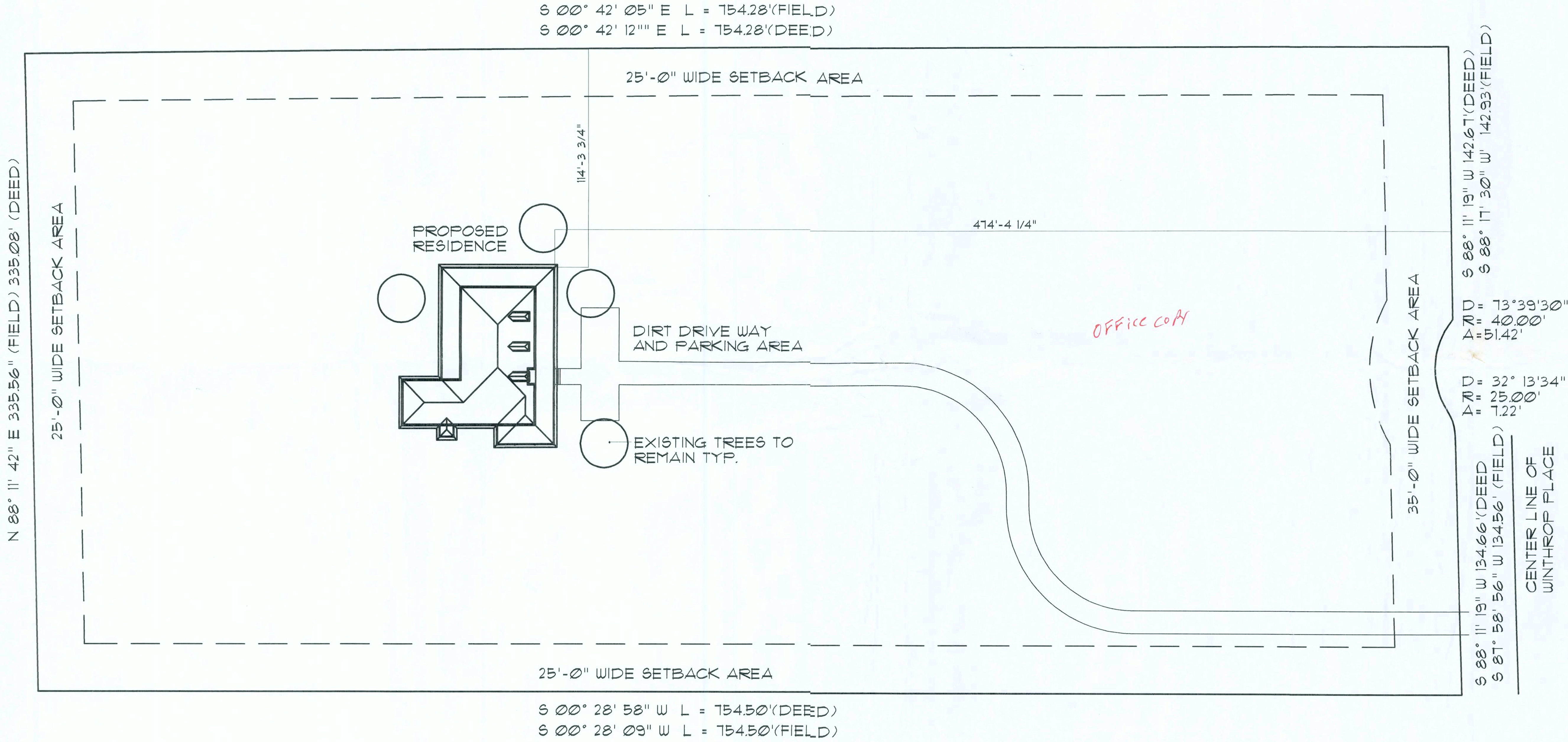
BRITT SURVEYING

LAND SURVEYORS AND MAPPERS

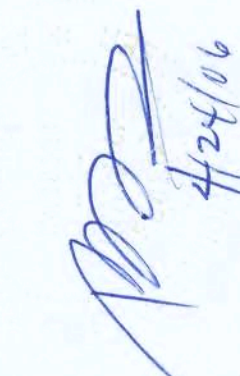
830 WEST DUVAL STREET
LAKE CITY, FLORIDA 32055

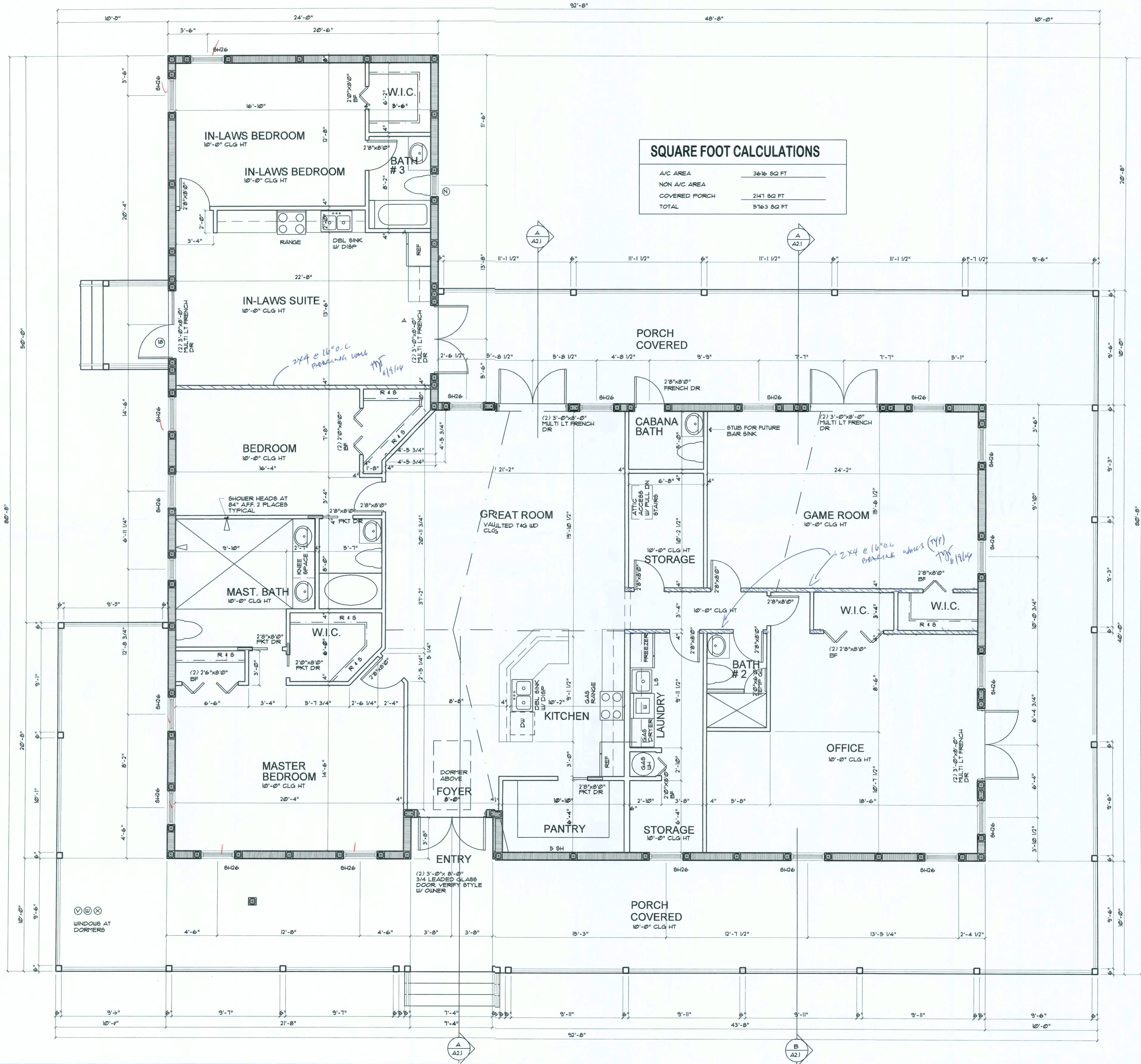
TELEPHONE: (386) 752-7163 FAX: (386) 752-5573 WORK ORDER # L-16980

FIELD BOOK: _____ PAGE(S): _____



NOTE: THIS DRAWING IS DESIGNED WITH THE INTENT NOT TO BE SCALED. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE DESIGNER'S ATTENTION FOR REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS PRIOR TO SUBMITTING FOR CONSTRUCTION PERMIT.

SHEET TITLE SITE PLAN SCALE: DRAWING	PROJECT NO. SP1.0	DATE																														
	PROJECT TITLE CAMPBELL RESIDENCE LOT 46 SPRING RUN SUBDIVISION COLUMBIA COUNTY, FLORIDA																															
REVISIONS																																
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DRN																																
																																
Thomas J. Twomey P.E. # 42406 2831 Exchange Ct West Palm Beach, FL 33433 561/688-2844																																



SQUARE FOOT CALCULATIONS	
A/C AREA	3616 SQ FT
NON A/C AREA	
COVERED PORCH	2141 SQ FT
TOTAL	5163 SQ FT

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SHEET TITLE FLOOR PLAN	PROJECT NO. DATE
	SCALE: 1/4" = 1'-0"
PROJECT TITLE CAMPBELL RESIDENCE LOT 48 SPRING RUN SUBDIVISION COLUMBIA COUNTY, FLORIDA	
DRN	REVISIONS
Thomas J. Twomey P.E. 2831 Exchange Ct. West Palm Beach, FL 33433 561/688-2844	



FRONT ELEVATION



REAR ELEVATION



RIGHT SIDE ELEVATION

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Thomas J. Twomey P.E.
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West Palm Beach, FL 33433
561/688-2844

DRN
[Signature]
4/20/16

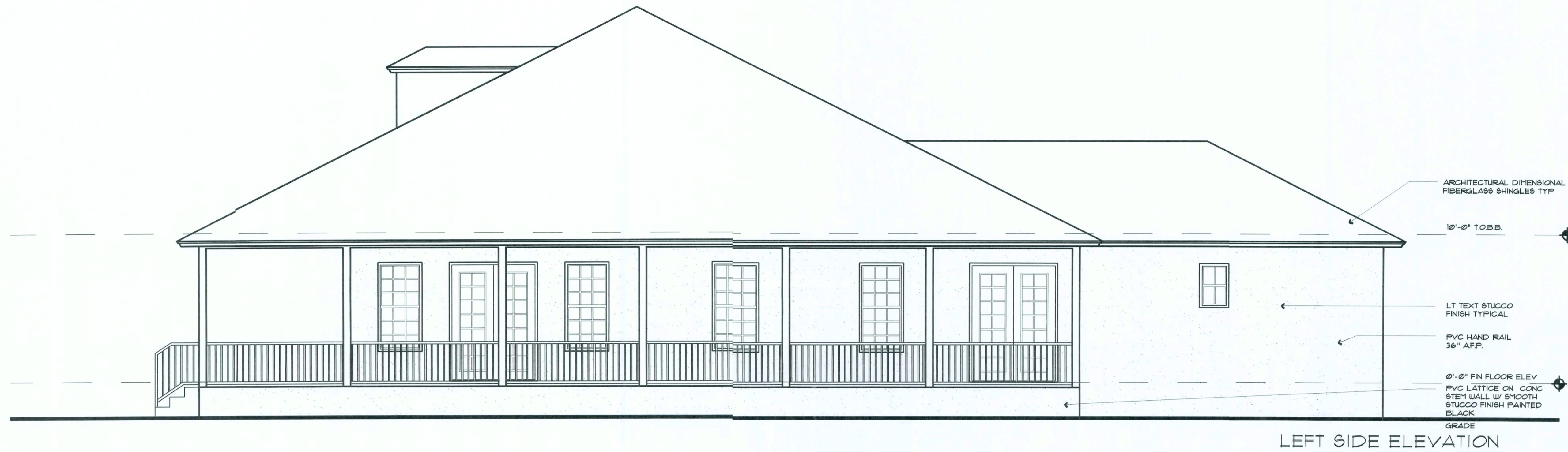
NO.	REVISIONS

PROJECT TITLE
**CAMPBELL RESIDENCE
LOT 48 SPRING RUN
SUBDIVISION
COLUMBIA COUNTY, FLORIDA**

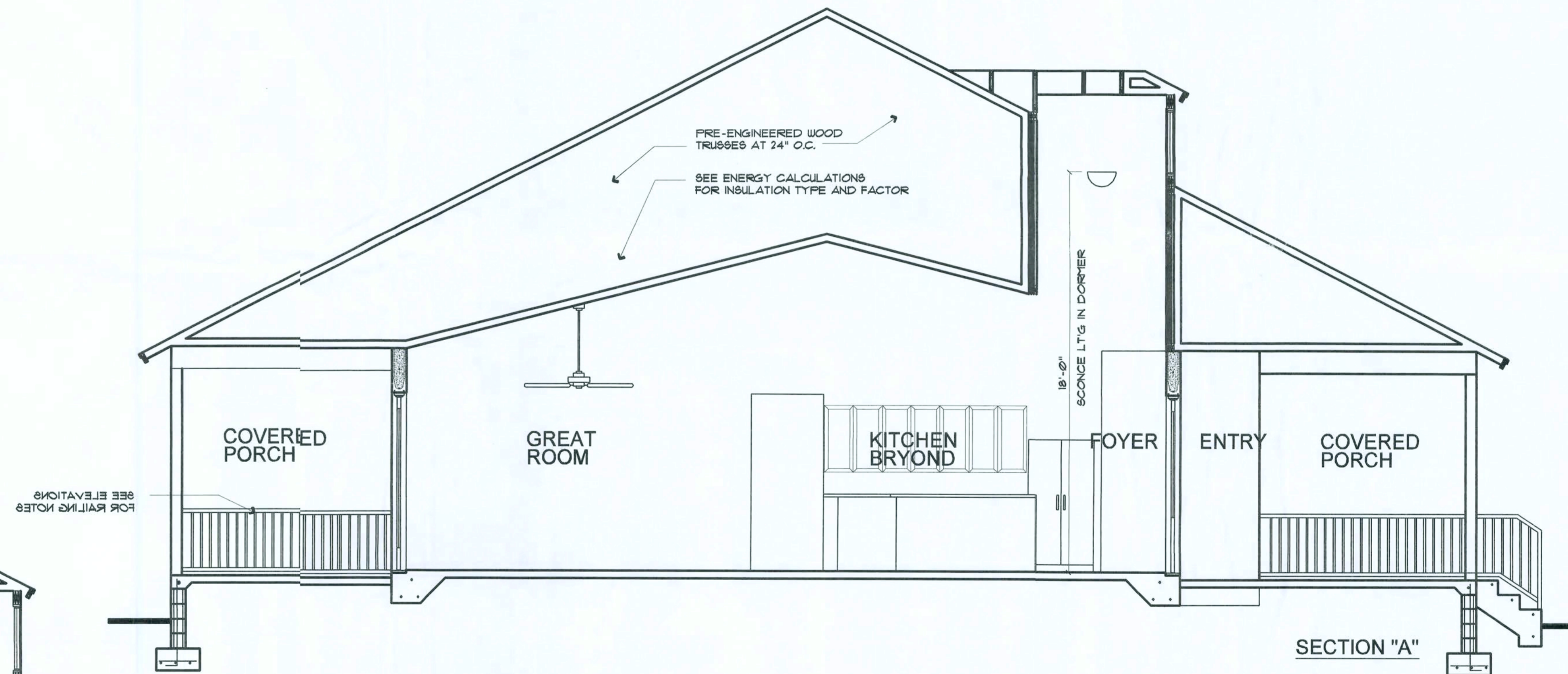
SHEET TITLE
ELEVATIONS

SCALE:
DRAWING
A2.0

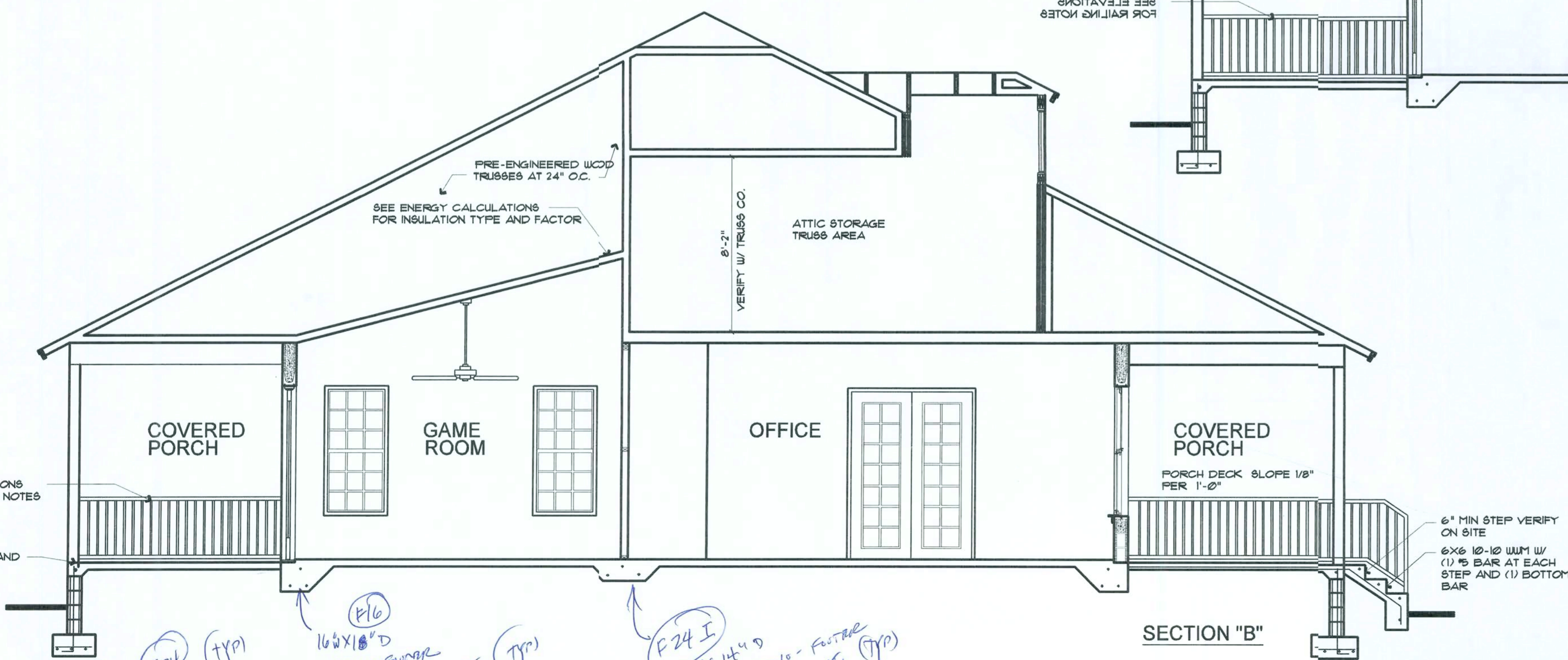
1/4" = 1'-0"
PROJECT NO.
DATE



LEFT SIDE ELEVATION



SECTION "A"



SECTION "B"

SEE ELEVATIONS FOR RAILING NOTES

(F24) (TYP) 24" W X 14" D CONC PORTAL W/ (3) #5 CONC (TYP) 8/9/06

(F16) 16" W X 10" D CONC PORTAL W/ (3) #5 CONC (TYP) 8/9/06

(F24 I) 24" W X 14" D CONC PORTAL W/ (3) #5 CONC (TYP) 8/9/06

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561/688-2844

DRN
[Signature]

REVISIONS

PROJECT TITLE
**CAMPBELL RESIDENCE
LOT 48 SPRING RUN
SUBDIVISION
COLUMBIA COUNTY, FLORIDA**

SHEET TITLE
ELEV/BLDG SECTIONS

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

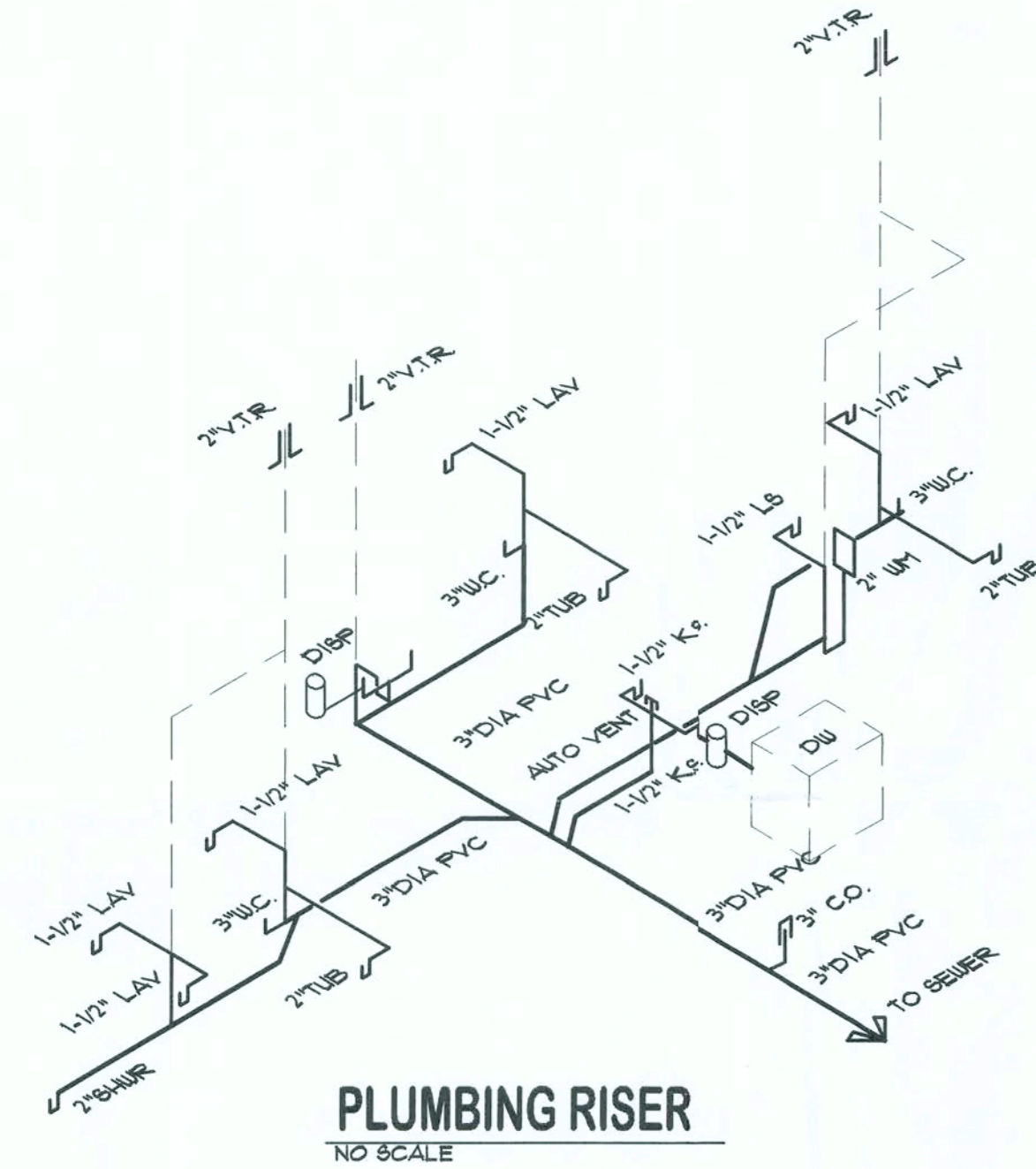
PROJECT NO.
A2.1

DATE

- NOTE:**
1. ALL INTERIOR PARTITION WALLS TO BE 4" NOMINAL DIMENSION UNLESS OTHERWISE NOTED.
 2. SEE SHEET S4.0 FOR WINDOW SIZES AND PRODUCT APPROVAL AFFIDAVIT

GENERAL NOTES:

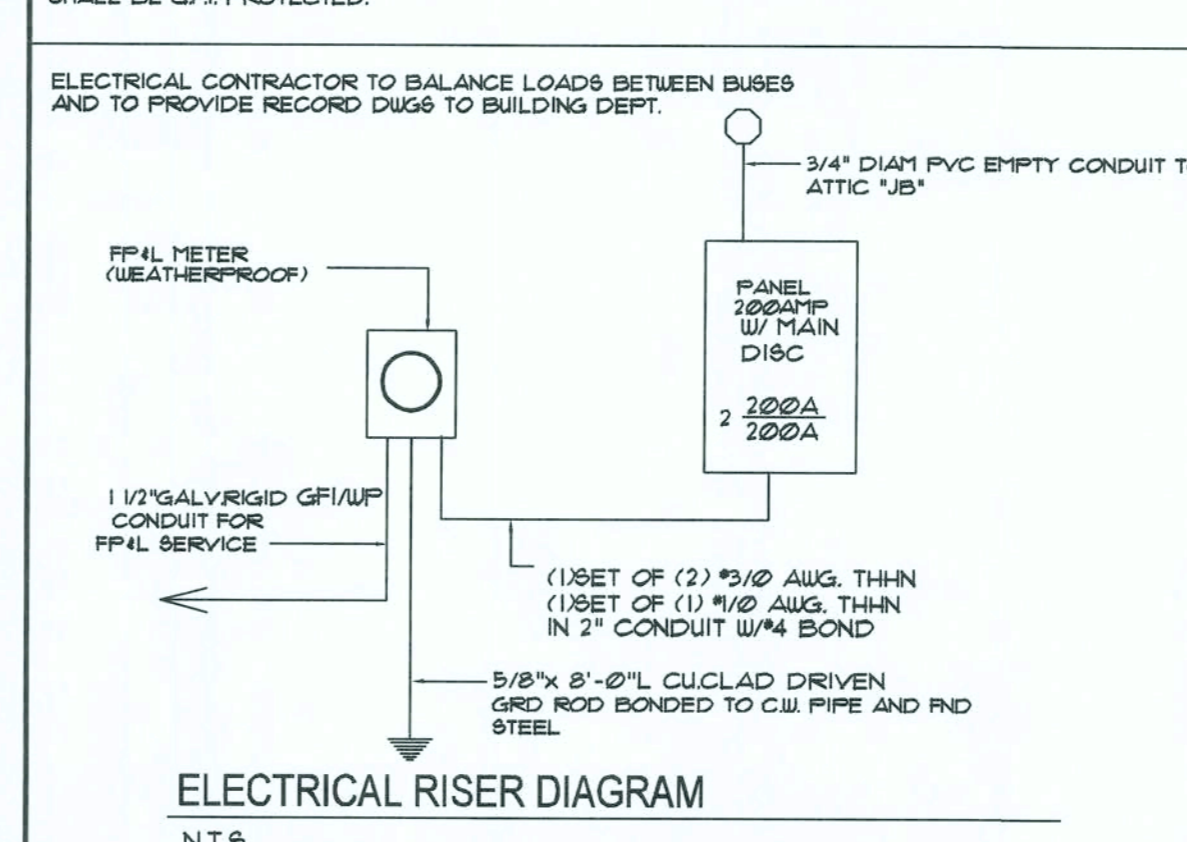
1. CONSTRUCTION TO BE AS PER THE FLORIDA BUILDING CODE 2001 AS ADOPTED BY THE GOVERNING JURISDICTION.
2. BUILDER TO COORDINATE WORK WITH ALL TRADES.
3. BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE PRIOR TO COMMENCING WORK AND NOTIFY ARCHITECT IN WRITING IMMEDIATELY OF ERRORS OR OMISSIONS. DO NOT SCALE DRAWINGS.
4. SUBMIT MINIMUM THREE (3) COPIES OF SHOP DRAWINGS AS REQUIRED BELOW.
5. THESE PLANS AS DRAWN REFER TO THE MECHANICAL MANUAL J' AND FLORIDA MODEL ENERGY CODE FOR TYPE AND R-VALUE OF INSULATION AND SIZING OF MECHANICAL SYSTEMS.
6. BUILDER RESERVES THE RIGHT TO SUBSTITUTE ITEMS WHICH THEY BELIEVE TO BE EQUAL OR BETTER THAN ITEMS SPECIFIED ON THESE DRAWINGS WITHOUT ANY WRITTEN APPROVAL FROM THE ARCHITECT. ITEMS WHICH, WHEN SUBSTITUTED REQUIRE APPROVAL OF THE BUILDING OFFICIAL, SHALL BE SUBMITTED TO SAID OFFICIAL.
7. BUILDER IS RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL OR NON STRUCTURAL MEMBERS DURING CONSTRUCTION.
8. CABINET SUPPLIER TO PROVIDE SHOP DRAWINGS TO THE BUILDER.
9. WINDOW AND DOOR SUPPLIER TO PROVIDE SHOP DRAWINGS TO THE BUILDER.
10. ALL WINDOWS AND DOORS SHALL BE CAULKED AND WEATHER STRIPPED WINDOW UNITS SHALL DISPLAY LABELS SHOWING COMPLIANCE WITH THE FLORIDA STATE ENERGY CODE AS WELL AS WIND LOAD CAPACITIES.
11. TRUSS MANUFACTURER SHALL SUBMIT FOUR (4) COPIES OF SHOP DRAWINGS AND ENGINEERING CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER OF ROOF TRUSS DESIGN FOR APPROVAL, INCLUDING (2) FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION.
12. BUILDER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE BRACING AND BRIDGING USED DURING ERECTION OF TRUSSES TO PREVENT COLLAPSE OR DAMAGE. ADEQUATE VERTICAL AND HORIZONTAL SHORING SHALL BE PROVIDED TO SAFELY SUPPORT ALL LOADS DURING CONSTRUCTION.
13. ALL WOOD IN CONTACT WITH MASONRY, CONCRETE OR STEEL TO BE PRESSURE TREATED. PROVIDE AN APPROVED MOISTURE VAPOR BARRIER BETWEEN CONCRETE OR OTHER MATERIALS AND WOOD AS PER CODE.
14. ALL ENTRY DOOR TO BE IMPACT RESISTANT AND UTILIZED AS 'MEANS OF ESCAPE'. IF FRENCH DOOR OPTION IS SELECTED BY CLIENT AN IMPACT RESISTANT DOOR, WILL BE PROVIDED, LABELED AND STORED W/ SHUTTERS, TO BE INSTALLED DURING A STORM EVENT.



PLUMBING GENERAL NOTES:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT TO INSTALL COMPLETE AND OPERATING SYSTEM.
2. THE PLUMBING CONTRACTOR IS TO PROVIDE ALL REQUIRED PERMITS.
3. THE PLUMBING CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY THAT SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE.
4. THE PLUMBING CONTRACTOR SHALL SIZE WATER METER, INSTALL HOT AND COLD WATER SYSTEMS, (3/4" COPPER PIPES) AND VERIFY EXISTING CONNECTIONS AND SIZES OF SANITARY AND WATER PIPES.
5. INSTALLATION SHALL BE IN COMPLIANCE WITH LOCAL, STATE, NATIONAL, AND FLORIDA ENERGY CODES.
6. FURNISH AND INSTALL PLUMBING FIXTURES AS SCHEDULED ON THE DRAWING OR AS PER OWNER.
7. FURNISH AND INSTALL APPROVED AIR CHAMBERS OR SHOCK ABSORBERS AT EACH PLUMBING FIXTURE GROUP.
8. FURNISH AND INSTALL CLEAN OUTS IN SANITARY LINES WHEREVER REQUIRED BY CODE WITH FLUSH TYPE PLUGS AT THE BASE OF EACH SOIL STACK. CLEAN OUTS SHALL BE NOMINAL SIZES AS THE PIPES INTO WHICH THEY ARE INSTALLED.
9. WATER PIPES SHALL BE OF TYPE 'L' COPPER FOR PIPING ABOVE GROUND AND TYPE 'K' FOR PIPING BELOW GROUND WITH WROUGHT SOLDER FITTINGS.
10. HOT WATER PIPES ABOVE AND BELOW GROUND SHALL BE INSULATED WITH ONE (1) INCH ARMAFLEX.
11. HOSE BIBBS TO BE MOUNTED TWENTY-SIX (26) INCHES ABOVE GRADE AND PROVIDE WITH VACUUM BREAKERS.
12. INSTALL 5/8" x 20'-0" CAPPED WATER PIPE FOR ELECTRICAL GROUNDING SYSTEM.
13. ALL METALLIC PIPES SHALL CONTINUE 10 FEET UNDERGROUND FOR GROUNDING PROTECTION.
14. EACH CONDENSATE DRAIN PIPE SHALL BE A MINIMUM OF 3/4" PVC (SCHEDULE 40) WITH TRAPS, INSULATED WITH 1/2" ARMAFLEX, AND TERMINATED SIX (6) INCH ABOVE GRADE IN PERMEABLE AREA OUTSIDE OF THE BUILDING. DO NOT TERMINATE CONDENSATE DRAIN PIPES ON CONCRETE FLOOR.
15. LOCATIONS WHERE PIPES PENETRATE WALLS, CEILING AND FLOORS SHALL BE WATER TIGHT.
16. WRAP ALL RISERS WITH APPROVED EXPANDING SEALANT AT EACH SLAB PENETRATION.
17. SANITARY PIPES SHALL BE OF PVC (SCH. 40) AS APPROVED BY BLDG. OFFICIAL.
18. SANITARY, SOIL, WASTE AND VENT PIPING SHALL SLOPE 1/4" PER FOOT FOR PIPES SMALLER THAN 3" AND SLOPE 1/8" FOR OTHERS.
19. PROVIDE MINIMUM (TWO) 2" COPPER DRAIN PANS AND VACUUM RELIEF VALVE TO ALL WATER HEATERS.
20. WATER PIPING SHALL BE SUBJECTED TO HYDROSTATIC PRESS. TEST OF 100 PSI FOR A MIN. OF ONE HOUR.
21. SANITARY PIPING SHALL BE FILLED WITH A FIVE (5) FT. HEAD OF WATER AND SHALL STAND UNTIL THE INSPECTION IS MADE. CORRECT ANY DEFECTS DETECTED BY THE TESTS.
22. ALL BACK FILL AND EXCAVATION AS REQUIRED SHALL BE A PART OF THIS CONTRACT.

GFI NOTE:
ALL RECEPTACLES IN BATHROOMS, LAUNDRY ROOMS, GARAGE, AND KITCHEN SHALL BE GFI, PROTECTED.



LOAD TABLE MODEL 3616 Sq. Ft.

EQUIPMENT	BREAKER	CONDUCTOR	LOAD
RANGE	50A/2P	6	12000
WATER HEATER	25A/2P	10	5000
DRYER	30A/2P	10	5000
DISHWASHER	20A/2P	12	1200
REFRIGERATOR	20A/2P	12	1200
MICROWAVE	20A/2P	12	1200
DISPOSAL	20A/2P	12	1200
WASHER	20A/2P	12	1200
3-SHALL APPL. CIRCUIT	15A/2P	12	4500
GENERAL LIGHTING	15A/2P	14	1500
SPRINKLER VALVE	15A/2P	14	200
GARAGE DOOR OPENER	20A/2P	12	400
FUTURE PADDLE FANS	15A/2P	14	600
RECIRC. PUMP	20A/2P	12	1200
FUTURE YARD LTG	20A/2P	12	1200
FUTURE POOL PUMP	20A/2P	12	1200
FUTURE POOL LTG	20A/2P	12	1200
FUTURE POOL HEATER	50A/2P	6	12000
(A) SUB TOTAL			60948
1st 10000W = 100%			10000 WATTS
REMAINDER = 40%			20379
SUB TOTAL (A)			30379

AIR CONDITIONING LOAD TABLE

EQUIPMENT	FUSE	CONDUCTOR	LOAD
A/C COMP. #1	40	8	N/A
HEAT 4 AHU1 (100KW) @ 65 %	60	6	6500
A/C COMP. #1	40	8	N/A
HEAT 4 AHU1 (100KW) @ 65 %	60	6	6500
SUB TOTAL			13000
TOTAL ESTIMATED CONNECTED LOAD (A+B)			43379
TOTAL LOAD AMPS @ 240V			181AMPS

(B)

EQUIPMENT	FUSE	CONDUCTOR	LOAD
A/C COMP. #1	40	8	N/A
HEAT 4 AHU1 (100KW) @ 65 %	60	6	6500
A/C COMP. #1	40	8	N/A
HEAT 4 AHU1 (100KW) @ 65 %	60	6	6500
SUB TOTAL			13000
TOTAL ESTIMATED CONNECTED LOAD (A+B)			43379
TOTAL LOAD AMPS @ 240V			181AMPS

ELECTRICAL NOTES

1. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL WORK.
2. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF FIXTURES AND OUTLETS AT JOB SITE BEFORE ROUGH IN.
4. THE ELECTRICIAN SHALL COORDINATE THE EXACT LOCATION OF ALL H.V.A.C. EQUIPMENT BEFORE ROUGHING IN FOR POWER AND WIRING CONTROL LAYOUT AND INSTALLATION (IF GAS IS NOT USED).
5. THE OWNER WILL SELECT ALL CEILING FANS AND FIXTURES WHICH ARE TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
6. GARAGE O.H. DOOR TO BE EQUIPPED WITH OBSTRUCTION SENSORS.
7. ALL BRANCH CIRCUITS THAT SUPPLY 125V, SINGLE PHASE, 15 AND 20 AMPERE RECEPTACLE OUTLETS INSTALLED IN DUELLING BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT INTERRUPTER.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
⊕	DUPLEX RECEPTACLE @ 12" AFF.
⊕C	DUPLEX RECEPTACLE @ 8" ABOVE COUNTER
⊕UC	DUPLEX RECEPTACLE UNDER COUNTER
⊕GFI	DUPLEX RECEPTACLE W/ GROUND FAULT CIRCUIT INTERRUPTER
⊕WP	DUPLEX RECEPTACLE WEATHERPROOF
⊕	QUADPLEX RECEPTACLE
⊕	DUPLEX RECEPTACLE TOP RECEPTACLE SWITCHED
⊖	SINGLE POLE APPLIANCE RECEPTACLE @ 48" AFF.
⊖	220 VOLT RECEPTACLE @ 12" AFF.
⊖WP	GFI FLUSH FLOOR DUPLEX RECEPTACLE
⊖	SINGLE POLE SWITCH
⊖	THREE WAY SWITCH
⊖	FOUR WAY SWITCH
⊖	DIMMER SWITCH
⊖	PUSH BUTTON
⊖	INCANDESCENT LIGHT - CEILING MOUNTED
⊖	INCANDESCENT LIGHT - WALL MOUNTED
⊖	FLUORESCENT LIGHT FIXTURE
⊖	PULL CHAIN LIGHT
⊖	110 V RECEPTACLE COMBINATION IN ATTIC
⊖	JUNCTION BOX
⊖	TELEPHONE JACK
⊖	RECESSED (HIGH HAT) LIGHT FIXTURE
⊖	RECESSED (HIGH HAT) LIGHT FIXTURE - VAPOR PROOF
⊖	EYEBALL
⊖	PRE WIRED CATV JACK
⊖	SECURITY KEYPAD
⊖	DIGITAL KEYPAD
⊖	CHIME
⊖	SMOKE DETECTOR - CEILING MOUNTED
⊖	110 V HARD WIRED W/ BATTERY BACKUP
⊖	SMOKE DETECTOR - WALL MOUNTED
⊖	110 V HARD WIRED W/ BATTERY BACKUP
⊖	EXHAUST FAN
⊖	INTERCOM @ 60" AFF.
⊖	VOLUME CONTROL
⊖	SPEAKER IN CEILING
⊖	SECURITY LIGHT - BOFFIT MOUNTED
⊖	DISCONNECT SWITCH
⊖	ELECTRICAL PANEL
⊖	METER BY FLORIDA POWER & LIGHT
⊖	TRANSFORMER
⊖	GAS OUTLET

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Thomas J. Twomey P.E.
2831 Exchange Ct.
West Palm Beach, FL 33433
561/688-2844

DRN
4/24/16

REVISIONS

NO.	DESCRIPTION

PROJECT TITLE
CAMPBELL RESIDENCE
LOT 48 SPRING RUN
SUBDIVISION
COLUMBIA COUNTY, FLORIDA

SHEET TITLE
NOTES/ ELEC NOTES
SCALE: 1/4" = 1'-0"
DRAWING PROJECT NO.
DATE
E2.0

Thomas J. Twomey P.E.
2831 Exchange Ct
West Palm Beach, FL 33433
561/688-2844

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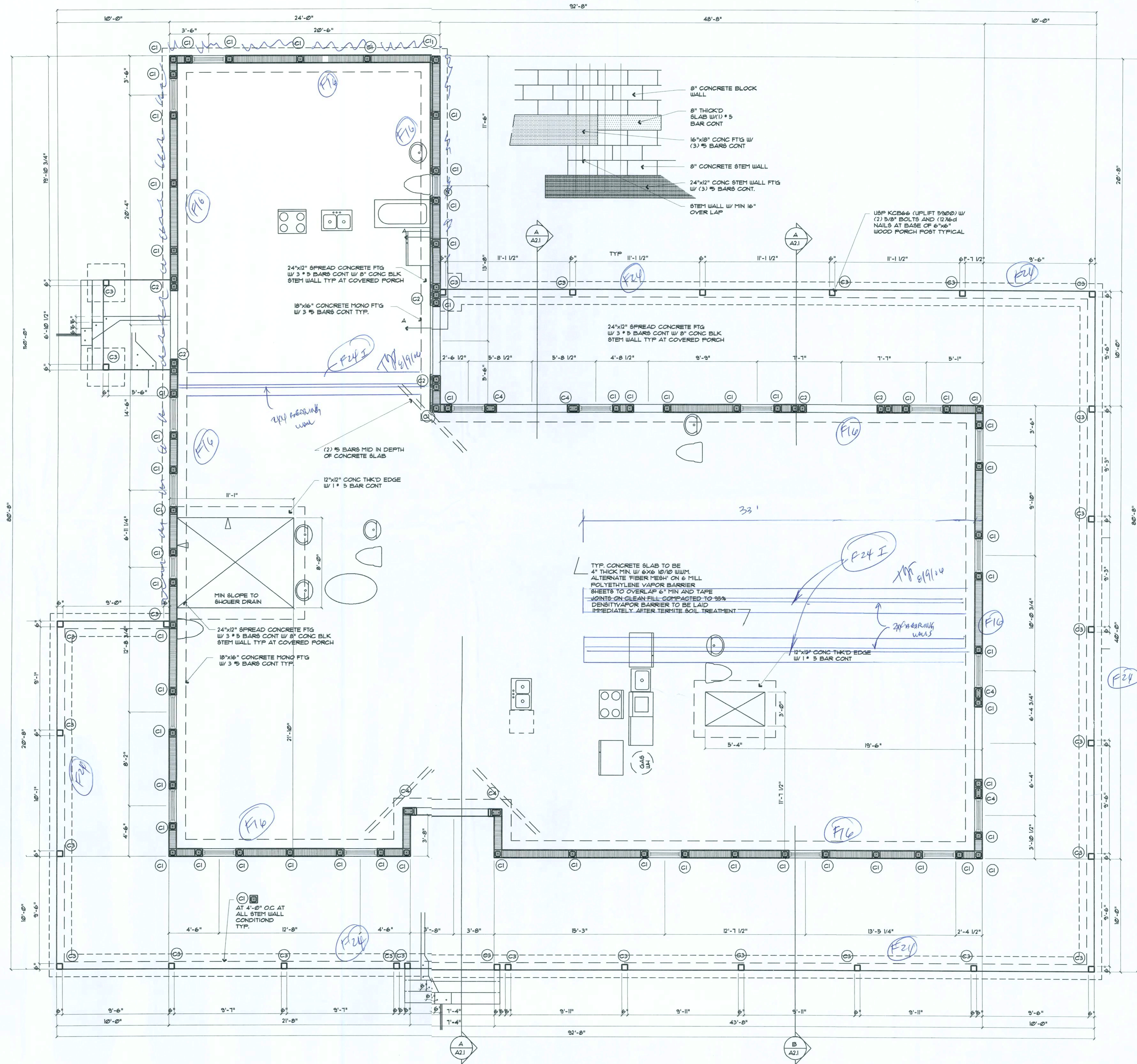
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"
DRAWING PROJECT NO. **S1.0**
DATE

PROJECT TITLE
CAMPBELL RESIDENCE
LOT 48 SPRING RUN
SUBDIVISION
COLUMBIA COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION

DRN
4/24/14



FOUNDATION SCHEDULE

- CONTRACTOR TO VERIFY ALL INTERIOR BEARING WALL FTGS W/ ROOF TRUSS MANUF.
- CONTRACTOR TO VERIFY SOIL CAPACITY PER GEOTECHNICAL ENGINEER'S SPEC'S.
- 4" 2500 PSI CONCRETE SLAB W/ TOPICAL CURING COMPOUND ON WELL COMPACTED TERMITICIDE TREATED GRANULAR FILL.
- ALL STUDDED POST MUST BE CRIPPLED AT ROOF GIRDER BEARINGS AND WOOD ENDS. GLUE AND NAIL PLIES AT 12" O.C. TYP. WALL SHEATHINGS MUST BE NAILED TO EA. PL. AT BOTH SIDE

COLUMN SCHEDULE

MARK	SIZE	REINFORCEMENT	REMARKS
C1	8"x 8"	(1) # 5 BAR'S VERT	REBAR IN CONCRETE GROUT FILLED CELL AT EACH SIDE OF OPENGS LESS THAN 6'-0" AND OR AT 6'-0" O.C. MAX
C2	8"x16"	(2) # 5 BAR'S VERT	REBAR IN CONCRETE GROUT FILLED CELL AT EACH SIDE OF OPENGS GREATER THAN 6'-0" AND OR AT 6'-0" O.C.
C3	6"x6"	WOOD PORCH COL	
C4	8"x12"	(2) # 5 BAR'S VERT	REBAR IN CONCRETE GROUT FILLED CELL

REINF. MASONRY NOTES:

CONCRETE UNITS TO BE ASTM C 90 GRADE N W/ MIN. COMPRESSIVE STRENGTH OF 1500 PSI ON NET AREA OF INDIVIDUAL UNITS. PROVIDE PRE CAST LITELS AS NECESSARY.
MORTAR TYPE 'M' PER ASTM C 210
PUMP MIXES:
PUMP MIX FOR REINFORCED MASONRY SHALL CONFORM TO ASTM DESIGNATION C 416
THE MIX DESIGN SHALL BE APPROVED BY THE ENGINEER.
ALL GROUT SHALL BE OF A FLUID CONSISTENCY WHICH MEANS THAT THE CONSISTENCY SHALL BE AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS.
THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT WRITTEN CONSENT OF THE ENGINEER.

REINFORCING:
VERTICAL:
ASTM A618 PER REINFORCING SECTION (GRADE 60)
WHEN A FOUNDATION DOUCEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN 60 DEGREES HORIZONTAL IN SIX VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
VERTICAL REINFORCING STEEL SHALL HAVE A MINIMUM CLEARANCE OF 1/4" FROM THE MASONRY.
VERTICAL REINFORCING SHALL BE AS SCHEDULED IN THE WALL REINFORCING AND COLUMN AS DEPICTED ON THE FOUNDATION PLAN.

VERTICAL STEEL REINFORCING EACH SIDE OF OPENINGS IN REQUIRED AREAS SHALL BE CONTINUOUS TO THE TIE-BEAM. PRE CAST LITELS SHALL HAVE OPENINGS TO ALLOW REINFORCING BARS TO CONTINUE UNINTERRUPTED.
HORIZONTAL:
HORIZONTAL REINFORCEMENT SHALL BE PROVIDED AS SCHEDULED IN WALL REINFORCING AND BEAM SCHEDULE.

GENERAL:
ALL REINFORCED MASONRY WORK SHALL CONFORM TO ACI 530.1-LAE/ A8C 6-LAE.
SPECIFICATIONS FOR MASONRY STRUCTURES (18 - 13020PSI)

STRUCTURAL NOTES:

CONCRETE SHALL CONFORM TO ASTM C94-LAE. FOUNDATION AND SLAB TO BE 2500 PSI IN COLUMNS AND BEAMS TO BE 3000 PSI MIN. COMPRESSIVE STRENGTH IN 28 DAYS (UNLESS NOTED OTHERWISE). BE IN ACCORDANCE WITH ALL CONCRETE WORK SHALL WITH ACI 318-LAE. ALL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH ACI 531-LAE.
MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE:
SLABS ON VAPOR BARRIERS - 3/4"
BEAMS AND COLUMNS - 1-1/2"
FORMED CONCRETE BELOW GRADE - 2"
UNFORMED CONCRETE BELOW GRADE - 3"

STEEL PLACEMENT AND DETAILS SHALL CONFORM TO ACI'S MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE CONSTRUCTION AS PUBLISHED BY THE CRSI UNLESS OTHERWISE NOTED.
REINFORCING STEEL SHALL BE LAPPED 48 BAR DIA. MIN. WHERE SPICED FOR COLUMN DOUCEL. COLUMN AND WALL REINFORCING TO FOOTING WITH SAME SIZE REINFORCING AN NUMBER OF DOUELS AS VERTICAL BARS ABOVE. PROVIDE CORNER BARS SAME SIZE AND NUMBER AS HORIZONTAL BEAM REINFORCING AT EACH FACE.

VERTICAL CELLS FOR MASONRY TO BE PUMP MIX FILLED AND SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS CELL.
CLEAN OUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF GROUTED CELLS AT EACH LIFT OVER 4'-0" HIGH. CLEAN OUT SHALL BE SEALED AFTER CLEANING AND INSPECTION AND BEFORE GROUTING.

STRUCTURAL WOOD AND TIMBER FRAMING SHALL CONFORM TO THE "TIMBER CONSTRUCTION MANUAL" AS PUBLISHED BY THE "AMERICAN INSTITUTE OF TIMBER CONSTRUCTION", DESIGN BASED ON TIMBER WITH 1800 PSI FD.
HEADERS FOR FRAMED OPENINGS GREATER THAN 6'-0" MUST BE ENGINEERED AND STAMPED BY THE TRUSS MANUFACTURER (WOOD DESIGN BASED ON WOOD WITH MINIMUM 1800PSI FD. HEADERS TO BE (2) OR (3) 2x12'S WOOD FRAME BASED ON WALL THICKNESS.
40 PSI IN HORIZONTAL SHEAR AND SHALL HAVE A MODULUS ELASTICITY OF 1600KSI OR BETTER AS DETERMINED BY AN APPROVED LUMBER GRADING AGENCY.

STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 1989 EDITION. MATERIALS SHALL CONFORM TO THE APPLICABLE ASTM SPECIFICATIONS AS FOLLOWS:
SHAPES, PLATES AND ANCHOR BOLTS - A36-91A
MACHINE BOLTS - A325-LAE
TUBULAR - A500-LAE A GRADE B (46KSI)

WELDED CONSTRUCTION SHALL CONFORM TO THE "AMERICAN WELDING SOCIETY" STRUCTURAL WELDING CODE" ELECTRODES FOR FIELD AND SHOP WELDS SHALL COMPLY W/ AWS. A5.1 E10XX
FOUNDATION REINFORCING SHALL BE LAPPED 48 BAR DIA. WHERE SPICED AD SHALL BE WIED TOGETHER. PROVIDE CORNER BARS (OUTSIDE OF CORNERS ONLY) SAME SIZE AS HORIZONTAL FOUNDATION REINFORCING.

IN THE EVEN OF MISSING DOUELS, EMBED #5 BAR MIN 8" INTO CONCRETE FTG AND EPOXY W/ EPOXY EPOXY. LIMIT (2) MISSING BARS PER HOUSE MAX. NOTIFY ENGINEER IF MORE THAN (2) BARS ARE REQ'D.

NOTES:

1. THE ENGINEER HAS PROVIDED BOTH CENTER LINE DIMENSIONS FOR MASONRY OPENINGS AND CENTER LINE DIMENSIONS FOR DOUCEL PLACEMENT. CONTRACTOR IS TO VERIFY DIMENSIONS W/ WINDOW AND DOOR MANUFACTURER PRIOR TO CONSTRUCTION.
IN THE EVEN OF MISSING DOUELS, EMBED #5 BAR MIN 8" INTO CONCRETE FTG AND EPOXY W/ EPOXY EPOXY. LIMIT (2) MISSING BARS PER HOUSE MAX. NOTIFY ENGINEER IF MORE THAN (2) BARS ARE REQ'D.

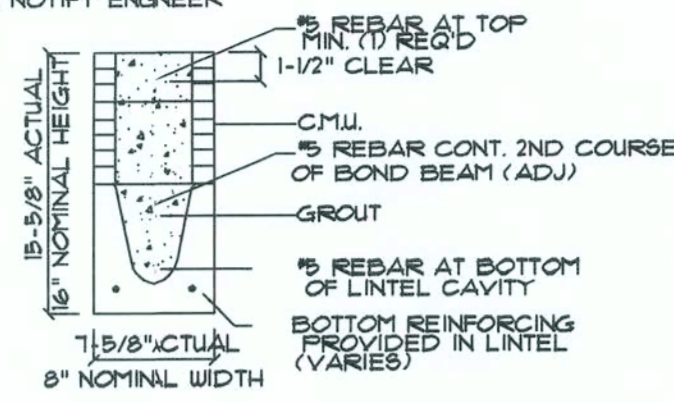
FRAMING NOTES:

THE TRUSS LAYOUT SHOWN IN PLANS IS SCHEMATIC IN NATURE HOWEVER, THE SUPPORTING SUPERSTRUCTURE HAS BEEN DESIGNED UNDER THE ASSUMPTION THAT THE FRAMING SCHEME SHOWN WILL CLOSELY PARALLEL FINAL TRUSS DESIGNERS LAYOUT. THIS FRAMING SCHEME (DIRECTION OF TRUSSES, MAJOR G.T. BEARING POINTS, ETC.) CAN BE MODIFIED ONLY AFTER OBTAINING PERMISSION FROM THE PROFESSIONAL OF RECORD WHO MUST REVIEW PROPOSED CHANGES AND AUTHORIZE & STRUCTURAL REVISIONS.

FINAL SIGNED AND SEALED ENGINEERED TRUSS DESIGN MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW AS PER GENERAL NOTES.

TRUSS DESIGNER MUST PROVIDE ALL TRUSS CONNECTIONS AS PART OF THE DESIGN.

IN THE EVENT EMBEDDED TRUSS STRAP LAYOUT DOESN'T MATCH WOOD TRUSS LAYOUT, CONTRACTOR SHALL ADD (1) 1-1/8" X 1/8" (14 GA. GALV. STRAP) OVER TOP CHORD W/ (3) 3/16" TAPCONS W/ 1/4" EMBED MIN. SPACED 1-1/2" APART & STARTING 3" BELOW TOP OF BEAM INTO TIE-BEAM TYP. (MAX. 1 TRUSS STRAPS MAY BE MISSED PER UNIT, OTHERWISE NOTIFY ENGINEER



FBC 2004	ASCE-7-2002	EXP. 'B'
INT. PRESSURE COEFF. [-.18]	IMPORTANCE FACTOR [1]	BLDG CAT. [2]
ENCLOSED	130 MPH W/ (3) SECOND GUST	
H = 15'		
I = 1.0		
q = 23.7 psf	VELOCITY PRESSURE	
MINIMUM SOIL BEARING CAPACITY = 2500 psf		
TOP CHORD DEAD LOAD = 15 psf		
TOP CHORD LIVE LOAD = 20 psf		
BOTTOM CHORD DEAD LOAD = 5 psf		
BOTTOM CHORD LIVE LOAD = 10 psf		
TOTAL LIVE AND DEAD LOADS=50 PSF		
NOTE: TRUSS PLANS DESIGN IS FOR 'ENCLOSED'		
STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FBC, SECTION 1609 FOR DESIGN PRESSURES GENERATED BY WIND VELOCITY OF 130 MPH W/ (3) SECOND GUST		

WOOD NEAM SCHEDULE

UNTEL#	LENGTH	LUMBER	DESIGN GRAVITY LOAD	SAFE GRAVITY LOAD	DESIGN UPLIFT LOAD	SAFE UPLIFT LOAD	REMARKS
WB1	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB2	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB3	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB4	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB5	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB6	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB7	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB8	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB9	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB10	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB11	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB12	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB13	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB14	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB15	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB16	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB17	9'-9"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB18	9'-9"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB19	10'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB20	11'-1 1/2"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB21	11'-1 1/2"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB22	11'-1 1/2"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB23	11'-1 1/2"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB24	11'-1 1/2"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB25	6'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB26	7'-4"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB27	6'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB28	4'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB29	4'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	
WB30	4'-0"	2x12	400 /PLF	400 /PLF	400 /PLF	400 /PLF	

WD BEAM TO BE (3) 2x12 W/ (2) LAYERS OF 1/2" PLYWOOD NAILED W/ 16d NAILS AT 8" O.C. STAGGERED EACH FACE. TYPICAL.

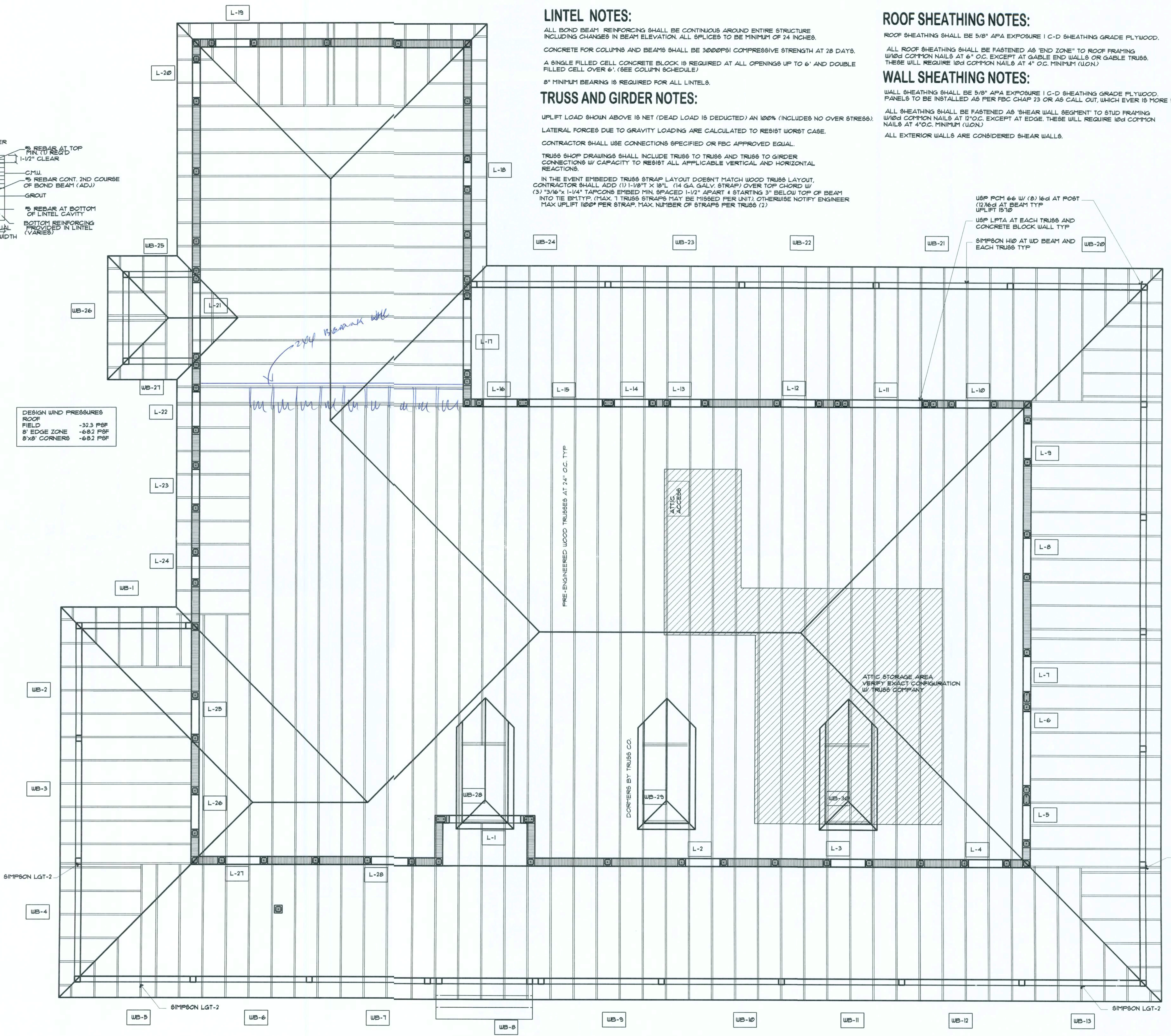
BOND BEAM

SIZE	LONGITUDINAL BAR	STIRRUP	REMARKS
8"x 16"	1 # 5 TOP 1 # 5 BOT.		TYP WHERE DOOR OR WINDOW OPENINGS DO NOT OCCUR

LINTEL SCHEDULE

UNTEL#	LENGTH	TYPE	COMPOSITE BEAM DEPTH	DESIGN GRAVITY LOAD	SAFE GRAVITY LOAD	DESIGN UPLIFT LOAD	SAFE UPLIFT LOAD	REMARKS
L1	1'-6"	PRECAST	8x24 IT/IB	400 /PLF	5743	400 /PLF	2442	
L2	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L3	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L4	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L5	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L6	1'-6"	PRECAST	8x22 IT/IB	400 /PLF	5743	400 /PLF	2442	
L7	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L8	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L9	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L10	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L11	1'-6"	PRECAST	8x22 IT/IB	400 /PLF	5743	400 /PLF	2442	
L12	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L13	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L14	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L15	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L16	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L17	1'-6"	PRECAST	8x22 IT/IB	400 /PLF	5743	400 /PLF	2442	
L18	3'-6"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	5591	
L19	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L20	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L21	1'-6"	PRECAST	8x22 IT/IB	400 /PLF	5743	400 /PLF	2442	
L22	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L23	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L24	3'-6"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	5591	
L25	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L26	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L27	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	
L28	4'-0"	PRECAST	8x24 IT/IB	400 /PLF	8914	400 /PLF	4893	

NOTE: FOR RAT RUN BOTTOM CHORD BRACING SEE DETAIL 1/8-10



LINTEL NOTES:

ALL BOND BEAM REINFORCING SHALL BE CONTINUOUS AROUND ENTIRE STRUCTURE INCLUDING CHANGES IN BEAM ELEVATION. ALL SPLICES TO BE MINIMUM OF 24 INCHES. CONCRETE FOR COLUMNS AND BEAMS SHALL BE 3000PSI COMPRESSIVE STRENGTH AT 28 DAYS. A SINGLE FILLED CELL CONCRETE BLOCK IS REQUIRED AT ALL OPENINGS UP TO 6' AND DOUBLE FILLED CELL OVER 6'. (SEE COLUMN SCHEDULE) 8" MINIMUM BEARING IS REQUIRED FOR ALL LINTELS.

TRUSS AND GIRDER NOTES:

UPLIFT LOAD SHOWN ABOVE IS NET (DEAD LOAD IS DEDUCTED) AN 100% (INCLUDES NO OVER STRESS). LATERAL FORCES DUE TO GRAVITY LOADING ARE CALCULATED TO RESIST WORST CASE. CONTRACTOR SHALL USE CONNECTIONS SPECIFIED OR FBC APPROVED EQUAL. TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS TO TRUSS AND TRUSS TO GIRDER CONNECTIONS W/ CAPACITY TO RESIST ALL APPLICABLE VERTICAL AND HORIZONTAL REACTIONS.

IN THE EVENT EMBEDDED TRUSS STRAP LAYOUT DOESN'T MATCH WOOD TRUSS LAYOUT, CONTRACTOR SHALL ADD (1) 1-1/8" X 1/8" (14 GA. GALV. STRAP) OVER TOP CHORD W/ (3) 3/16" TAPCONS EMBED MIN. SPACED 1-1/2" APART & STARTING 3" BELOW TOP OF BEAM INTO TIE-BEAM TYP. (MAX. 1 TRUSS STRAPS MAY BE MISSED PER UNIT, OTHERWISE NOTIFY ENGINEER MAX UPLIFT 1200 PER STRAP, MAX NUMBER OF STRAPS PER TRUSS (2)

ROOF SHEATHING NOTES:

ROOF SHEATHING SHALL BE 5/8" APA EXPOSURE 1 C-D SHEATHING GRADE PLYWOOD. ALL ROOF SHEATHING SHALL BE FASTENED AS 'END ZONE' TO ROOF FRAMING W/16d COMMON NAILS AT 6" O.C. EXCEPT AT GABLE END WALLS OR GABLE TRUSS. THESE WILL REQUIRE 10d COMMON NAILS AT 4" O.C. MINIMUM (U.O.N.)

WALL SHEATHING NOTES:

WALL SHEATHING SHALL BE 5/8" APA EXPOSURE 1 C-D SHEATHING GRADE PLYWOOD. PANELS TO BE INSTALLED AS PER FBC CHAP 23 OR AS CALL OUT, WHICH EVER IS MORE RESTRICTIVE. ALL SHEATHING SHALL BE FASTENED AS 'SHEAR WALL SEGMENT' TO STUD FRAMING W/16d COMMON NAILS AT 12" O.C. EXCEPT AT EDGE. THESE WILL REQUIRE 10d COMMON NAILS AT 4" O.C. MINIMUM (U.O.N.) ALL EXTERIOR WALLS ARE CONSIDERED SHEAR WALLS.

NOTE: THIS DRAWING IS DESIGNED WITH THE INTENT NOT TO BE SCALE. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE DESIGNERS ATTENTION FOR REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS PRIOR TO SUBMITTING FOR CONSTRUCTION PERMIT.

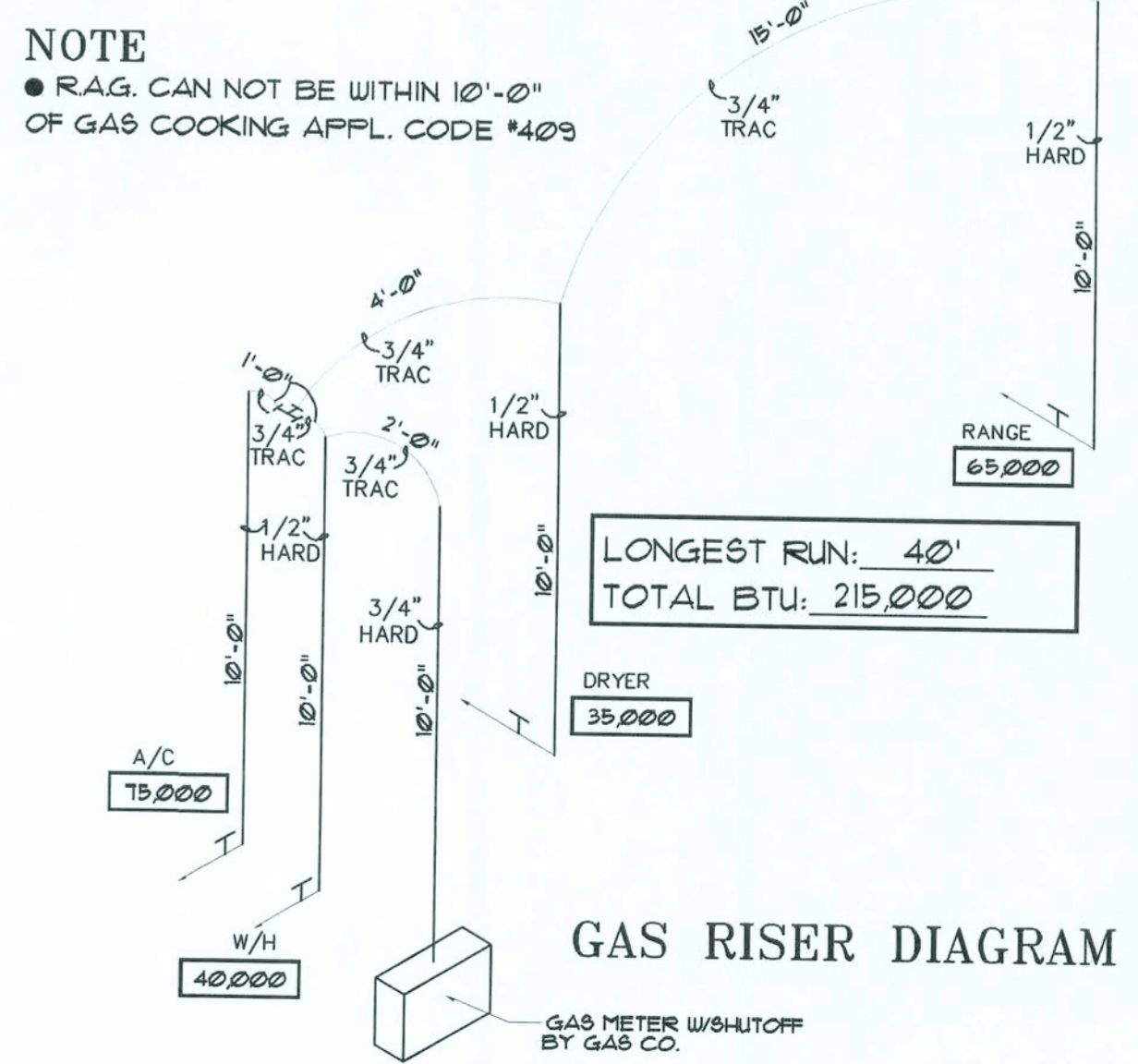
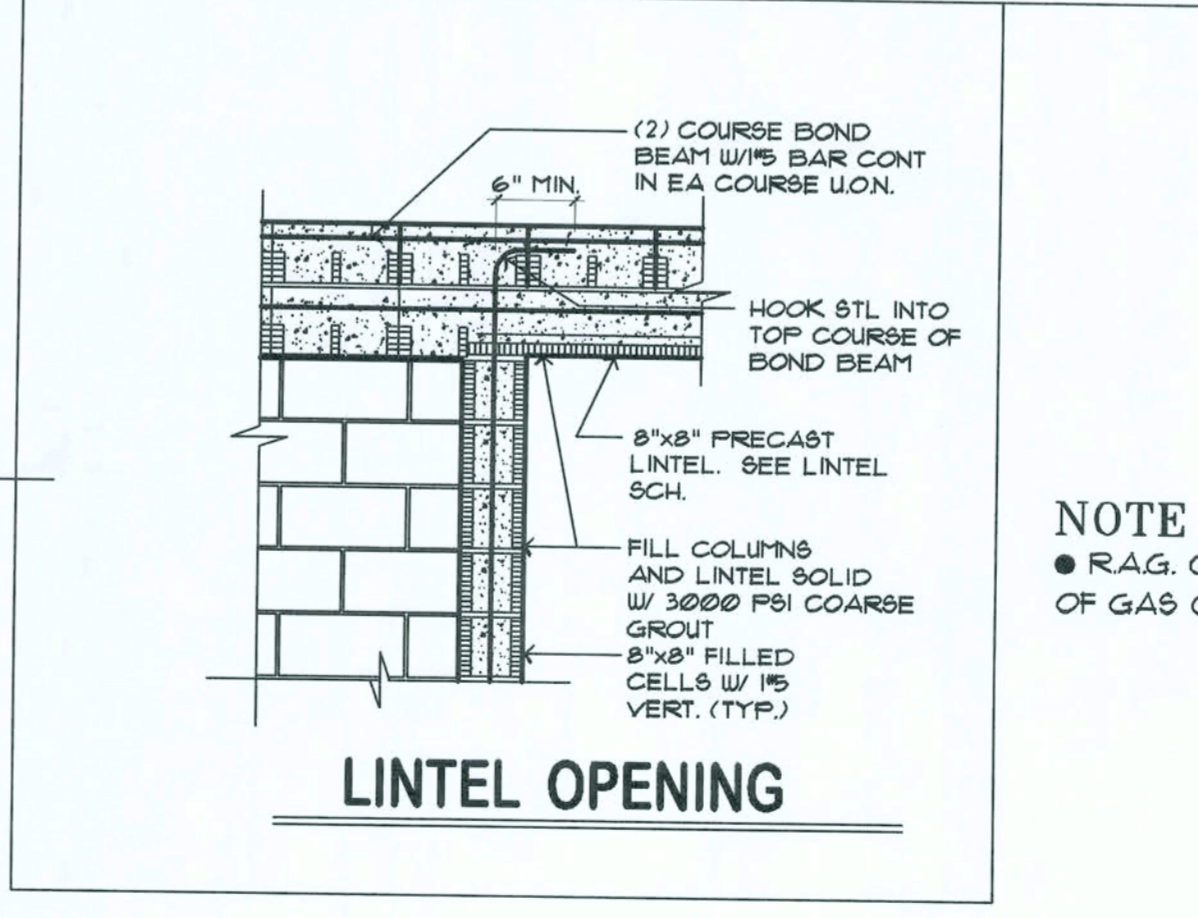
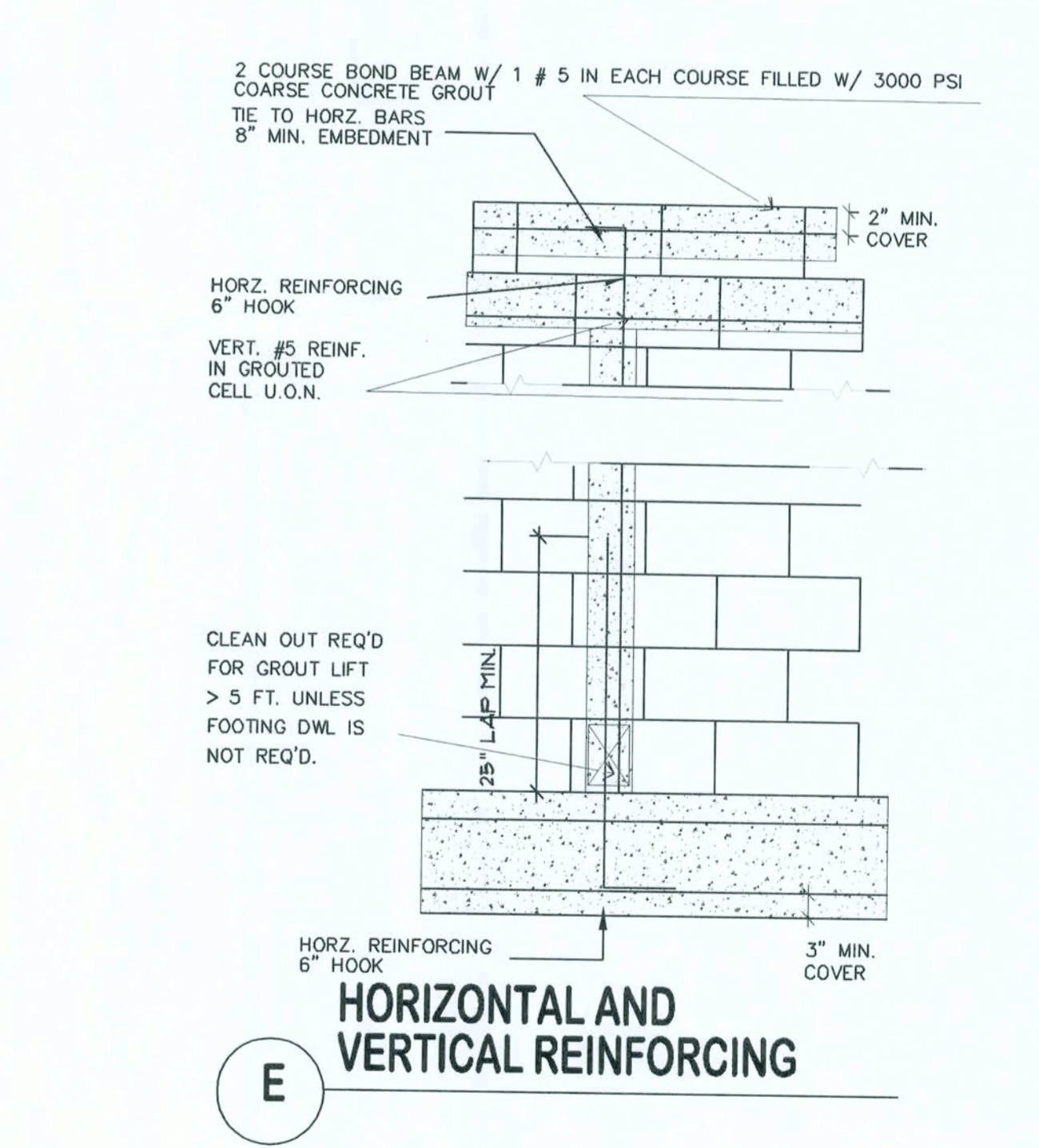
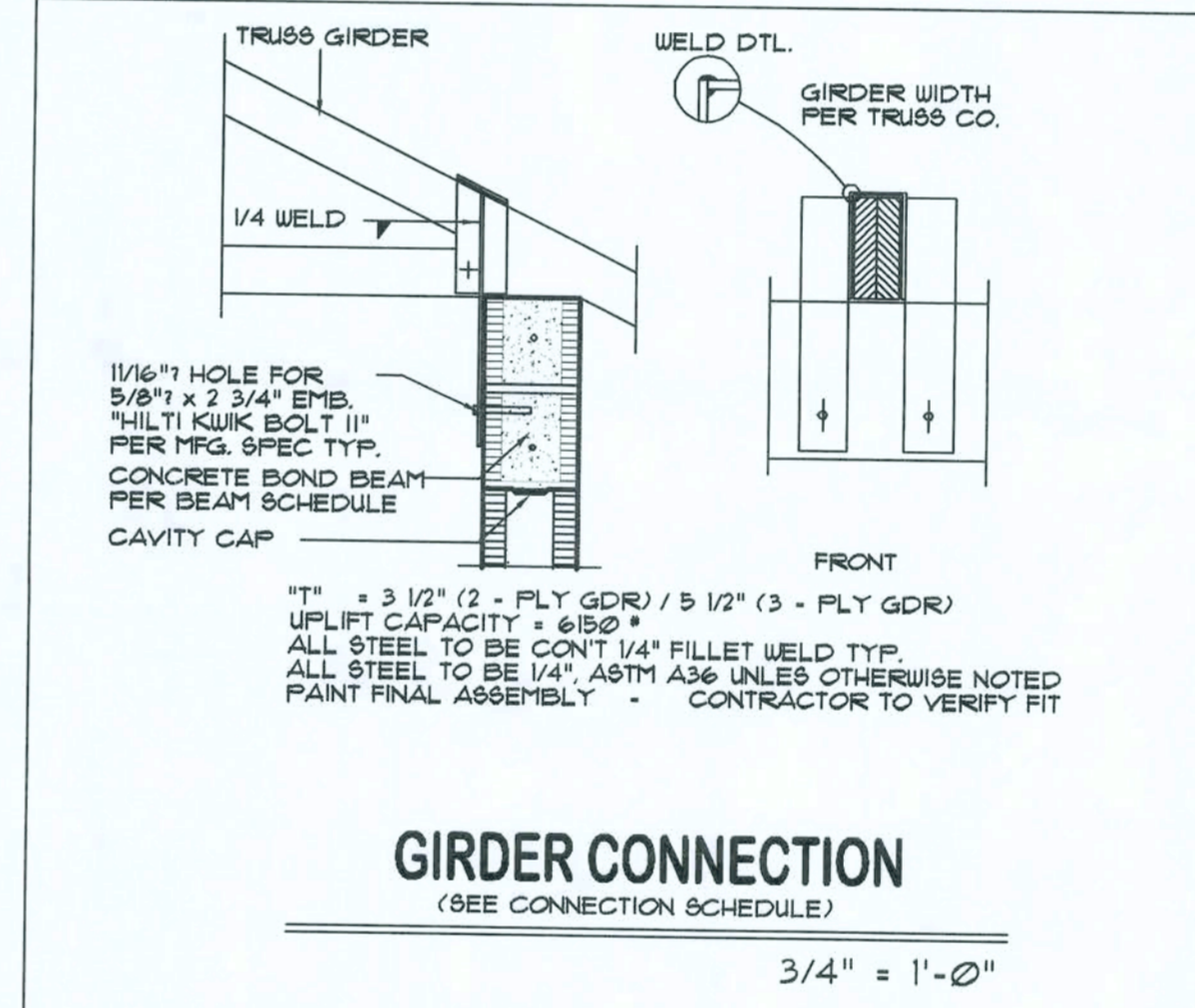
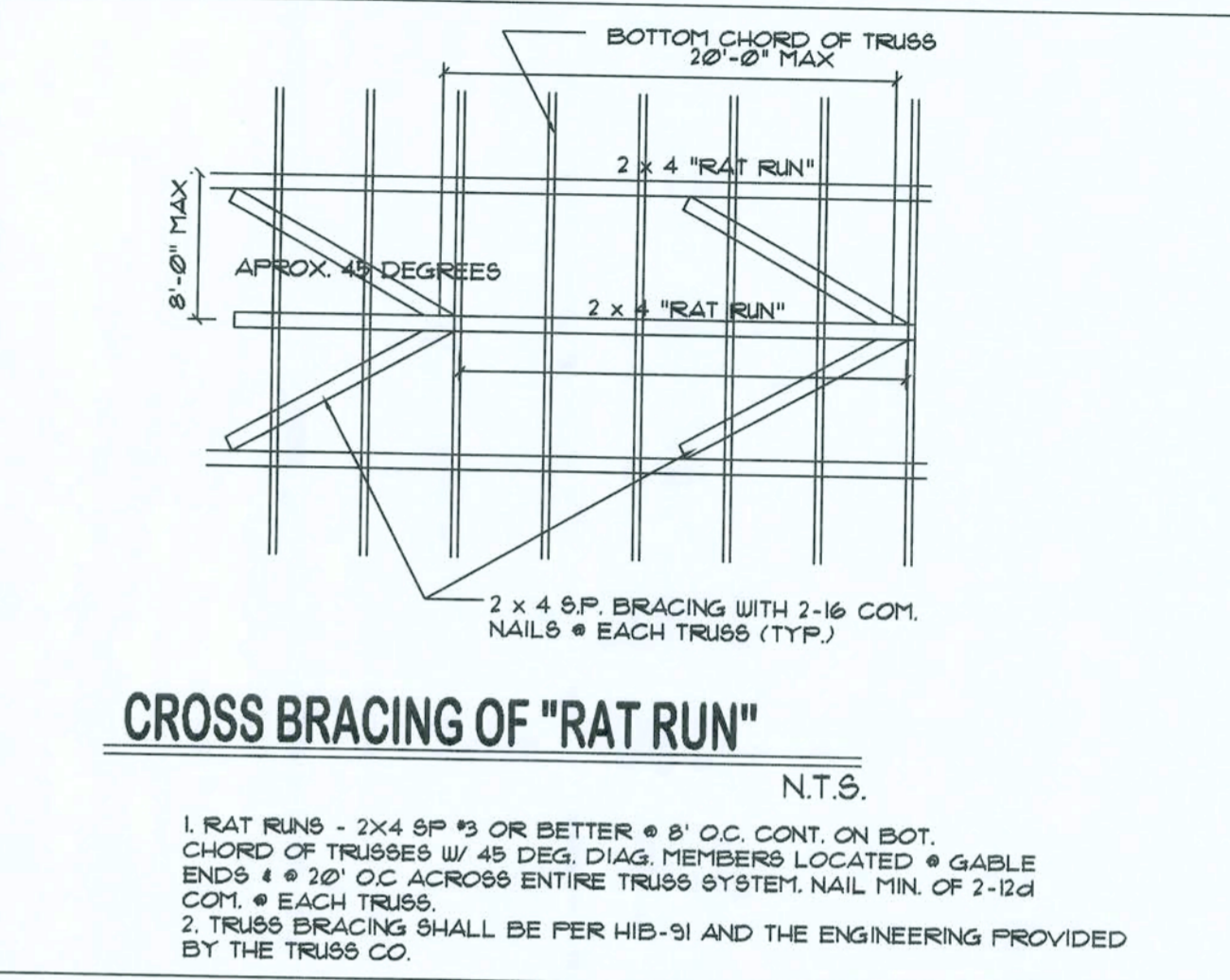
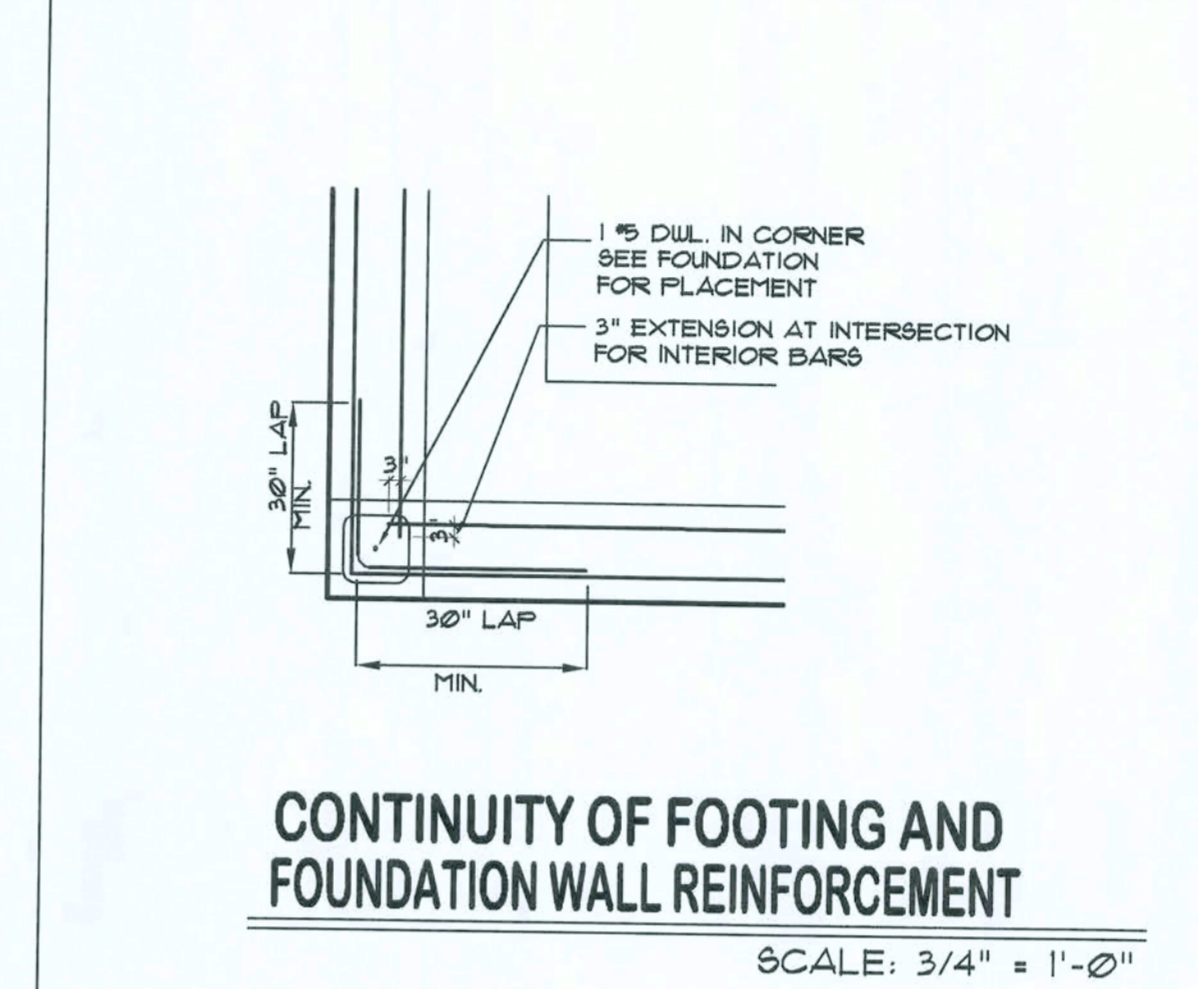
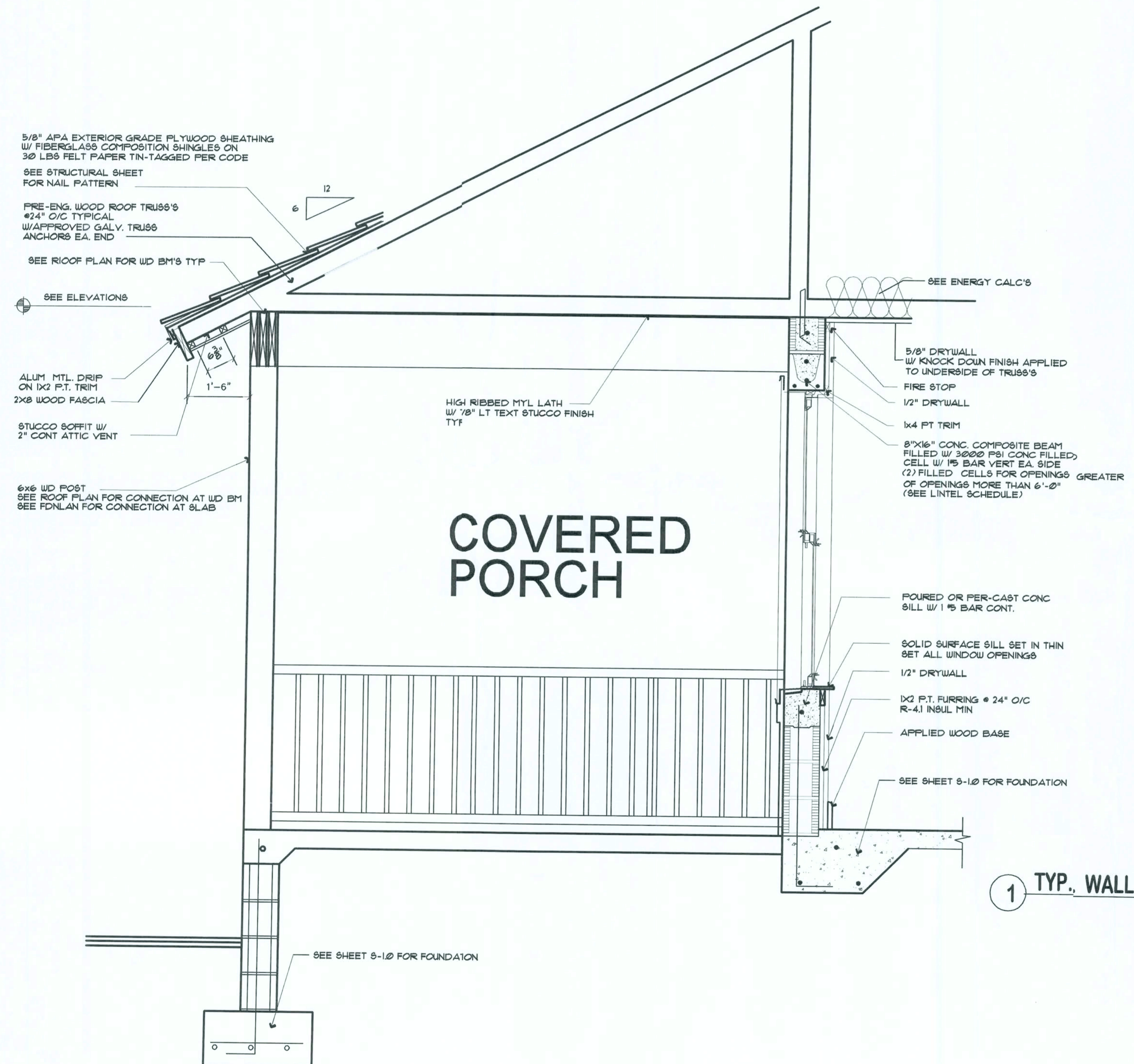
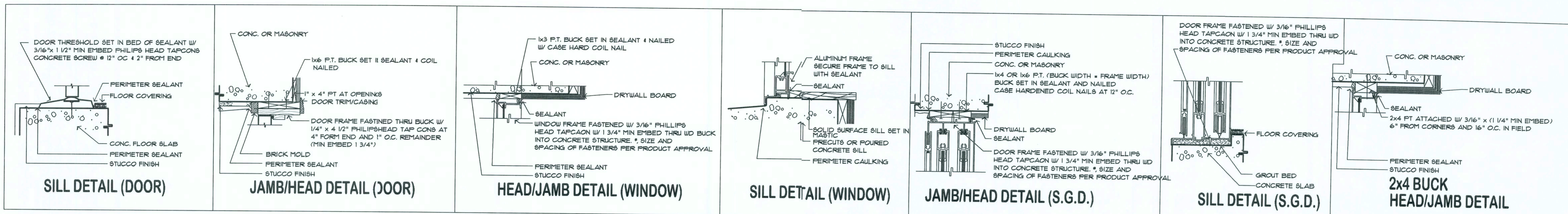
Thomas J. Twomey P.E.
2831 Exchange Ct
West Palm Beach, FL 33433
561/688-2844

DRN
ARM

REVISIONS

PROJECT TITLE
**CAMPBELL RESIDENCE
LOT 48 SPRING RUN
SUBDIVISION
COLUMBIA COUNTY, FLORIDA**

SHEET TITLE
ROOF FRAMING PLAN
SCALE: **1/4" = 1'-0"**
DRAWING PROJECT NO. DATE
\$2.0



NOTE: THIS DRAWING IS DESIGNED WITH THE INTENT NOT TO BE SCALED. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE DESIGNER'S ATTENTION FOR REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS PRIOR TO SUBMITTING FOR CONSTRUCTION PERMIT.

Thomas J. Twomey P.E.
 2831 Exchange Ct
 West Palm Beach, FL 33433
 561/688-2844

DRN
 [Signature]
 4/20/16

NO.	REVISIONS

PROJECT TITLE
CAMPBELL RESIDENCE
LOT 48 SPRING RUN
SUBDIVISION
COLUMBIA COUNTY, FLORIDA

SHEET TITLE
WALL SECTION / DETAILS
 SCALE:
1/4" = 1'-0"
 DRAWING
S-4-0
 PROJECT NO.
 DATE