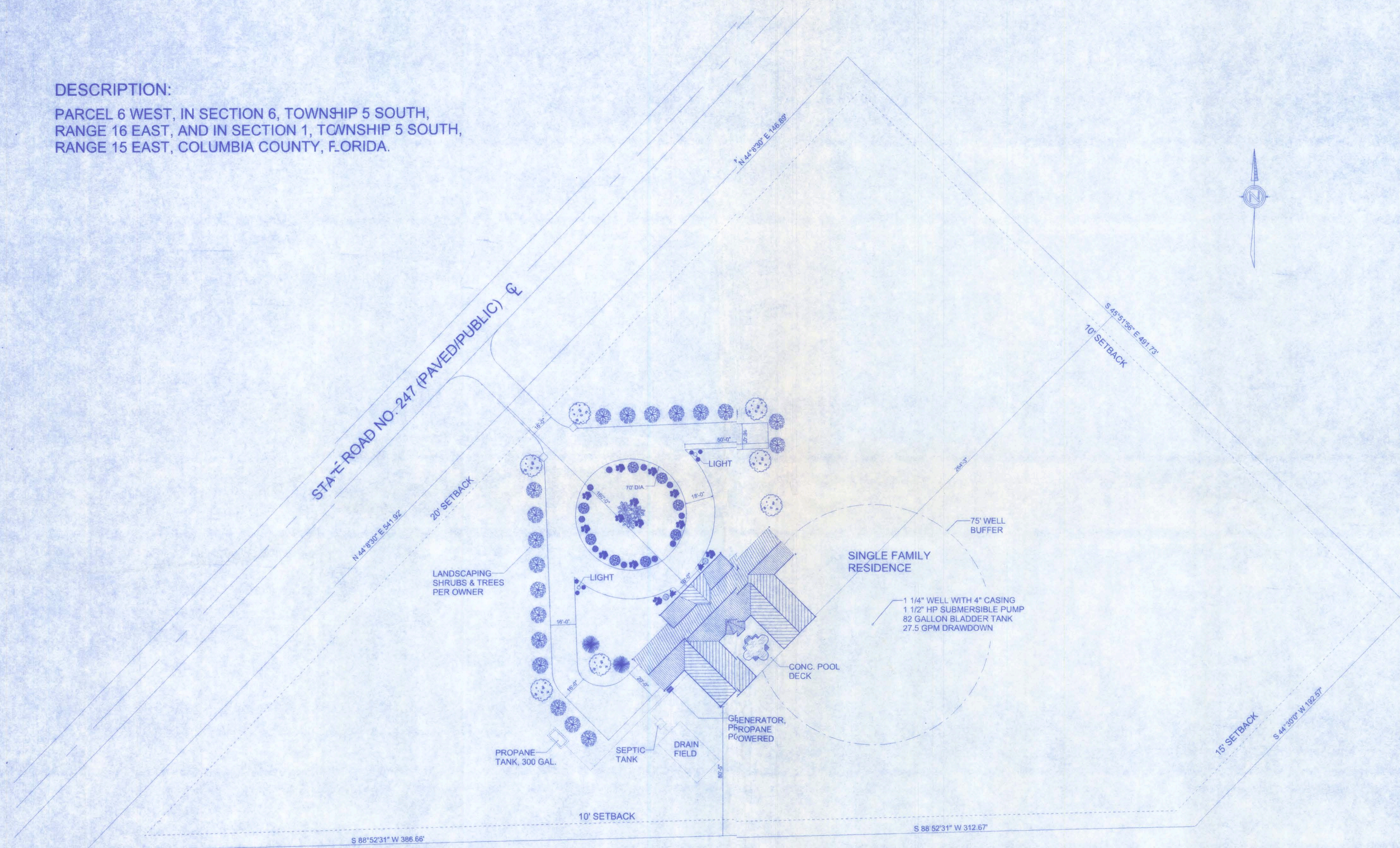


DESCRIPTION:

PARCEL 6 WEST, IN SECTION 6, TOWNSHIP 5 SOUTH,
RANGE 16 EAST, AND IN SECTION 1, TOWNSHIP 5 SOUTH,
RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA.



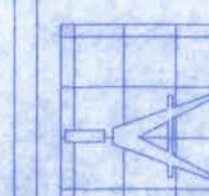
SITE PLAN
SCALE: 1" = 30'-0"

Willie H. Lee
11/5/07
DE AD 5004

**MATTHEW & NANCY
DOWLING RESIDENCE**

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386)758-4209

CERTIFICATE OF AUTHORIZATION # 00000701



Freeman
Design Group Inc

DATE 11/06/07 DRAWN BY W.H.F.

REVISIONS

SHEET SP-1

OF 1

PROJECT NO.

GENERAL NOTES

DESIGN CRITERIA

- D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARD OF THE FLORIDA BUILDING CODE, 2004 EDITION.
- D2 DESIGN FLOOR LOAD VALUES:
- | | |
|---|----------|
| LIVE LOADS | 40 PSF |
| DEAD LOADS | 20 PSF |
| ASSUMED ALLOWABLE SOIL BEARING CAPACITY | 2000 PSF |
- D3 THE STRUCTURAL PLANS AND WIND SPEED HAVE BEEN DESIGNED IN ACCORDANCE WITH SECTION 1609 OF THE FLORIDA BUILDING CODE 2004 EDITION.

GENERAL

- G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION & FOR ALL JOBSITE SAFETY.
- G3 NO STRUCTURAL MEMBER SHALL BE CUT NOTCHED OR OTHERWISE REDUCED IN STRENGTH.
- G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- G5 ANY SUBMITTALS RECEIVED BY A/E THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.
- G6 ALL SECTIONS AND DETAILS SHALL BE CONSTRUCTED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.
- G7 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION, INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE A/E FOR RESOLUTION.

FOUNDATIONS

- F1 A GEOTECHNICAL REPORT FOR THIS PROJECT WAS NOT PROVIDED BY THE OWNER. THESE PLANS ARE BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 1,500 PSF. THE CONTRACTOR MAY, AT OWNERS'S REQUEST, ENGAGE A QUALIFIED AND CERTIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE ALLOWABLE SOIL BEARING CAPACITY. A COPY OF THE REPORT SHALL BE PROVIDED TO THE A/E. IF THE DETERMINED ALLOWABLE BEARING CAPACITY IS LESS THAN THE ASSUMED VALUE, MODIFICATIONS TO THE FOUNDATIONS MAY BE REQUIRED.
- F2 THE GEOTECHNICAL ENGINEER SHALL MAKE A FIELD INVESTIGATION TO DETERMINE IF ANY SOIL CONDITIONS ARE PRESENT THAT MAY ADVERSELY AFFECT THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL SUCH MATERIAL AND REPLACE IT WITH APPROVED FILL.
- F3 SUBGRADE UNDER FOOTINGS AND SLABS SHALL BE COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SUBMIT DENSITY TESTS TO THE A/E.

SLABS ON GRADE

- S1 PROVIDE 6 MIL POLYETHYLENE SHEETING UNDER ALL SLABS ON GRADE.
- S2 PROVIDE CONTROL JOINTS (1/4" WIDE BY 3/8" DEEP) AS INDICATED ON PLAN. FILL JOINTS WITH POURED RUBBER. IF JOINTS ARE SAWCUT, SAWCUTTING MUST BE DONE THE SAME DAY THE CONCRETE IS PLACED.
- S3 PROVIDE 1/2" EXPANSION JOINTS AT ALL LOCATIONS WHERE SLABS ABUT STRUCTURES (WALLS, COLUMNS, ETC.)

CONCRETE AND REINFORCING

- C1 THE GENERAL CONTRACTOR MAY, AT OWNER'S REQUEST, ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.
- C2 CONCRETE WORK & MIX DESIGN SHALL CONFORM TO ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIXING SHALL BE IN ACCORDANCE WITH ASTM C94.
- C3 MINIMUM 28-DAY COMPRESSIVE STRENGTH:
- | | |
|------------------------|-----------|
| FOOTINGS AND TIE BEAMS | 2,500 PSI |
| COLUMNS AND SLABS | 2,500 PSI |
- C4 SPLICES OF REINFORCING (EXCEPT AS SHOWN ON PLANS):
- | | |
|------------------|-----------|
| #4 BARS | 20 INCHES |
| #5 BARS | 27 INCHES |
| WELDED WIRE MESH | 6" |
- C5 AT ALL CORNERS OF TIE BEAMS AND WALL FOOTINGS, PROVIDE CORNER BARS (30 INCH MINIMUM LEGS) TO MATCH HORIZONTAL BARS.
- C6 REINFORCING BARS SHALL CONFORM TO ASTM A615-96a GRADE 60. WELDED WIRE MESH SHALL CONFORM TO ASTM A-185. LAP WELDED WIRE MESH ON MESH + 2' WHERE SPLICED.
- C7 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

LOCATION	MIN. COVER
BOTTOM OF FOOTINGS	3"
SIDES OF FOOTINGS	3"
COLUMNS	1 1/2"
TIE BEAMS	1 1/2"
SLABS	AS NOTED

STRUCTURAL STEEL

- S1 GENERAL CONTRACTOR MAY, AT OWNER'S REQUEST, ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORT TO A/E.
- S2 STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
- S3 MATERIAL
- | | |
|-------------------|--|
| BEAMS & CHANNELS | ASTM A572, GRADE 50 |
| STEEL TUBING | ASTM A500, GRADE B |
| PLATES | ASTM A36 |
| BOLTS | ASTM A325 |
| ANCHOR BOLTS | ASTM A36 THREADED ROD - 6" MIN. EMBEDMENT WITH 2" HOOK |
| EXPANSION ANCHORS | RAMSET/REDHEAD TRIBOLT OR APPROVED EQUIVALENT |
| NON-SHRINK GROUT | 5000 PSI |
- S4 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
- S5 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE E70XX-LOW HYDROGEN FOR SHIELDED AND METAL ARC WELDING.
- S6 PROVIDE NUT & WASHER FOR ALL BOLTS AND ANCHOR BOLTS.
- S7 ALL WELDED CONNECTIONS SHALL BE 1/4" FILLET ALL AROUND. UNO. ALL BOLTED CONNECTIONS SHALL BE 1/2" DIA. A325 BOLTS, UNO.

PRE-FABRICATED LIGHT GAGE STEEL TRUSSES

- RT1 ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
- | | |
|-----------|---------|
| DEAD LOAD | 110 PSF |
| LIVE LOAD | 220 PSF |
| WIND | 110 MPH |

LIGHT GAGE FRAMING:

- LG-1 ALL LIGHT GAGE FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
- LG-2 ALL FRAMING MEMBERS SHALL BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH OF 40 KSI.
- LG-3 ALL FRAMING SHALL BE GALVANIZED.
- LG-4 ALL CONNECTIONS SHALL BE SCREWED OR WELDED. USE A MINIMUM OF 3-#12 SCREWS AT CONNECTION. POWER DRIVEN FASTENERS ARE NOT ACCEPTABLE FOR ANY STRUCTURAL APPLICATIONS UNLESS THEY COMPLETELY PENETRATE THE STRUCTURAL STEEL.
- LG-5 ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

MASONRY

- M1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530-88/ASCE 5-88) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-88/ASCE 6-88)

NOTE:
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION.

BASIC WIND SPEED		110 MPH
IMPORTANCE FACTOR		1.0
BUILDING CATEGORY		2
EXPOSURE		B
INTERNAL PRESSURE		+/- 0.18
COMPONENT AND CLADDING PRESSURE	WALLS	+21.8/-29.1 PSF
	ROOF	+12.5/-29.1 PSF
	OVERHANGS	-71.6 PSF
TYPE OF STRUCTURE		ENCLOSED

NOTE:
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

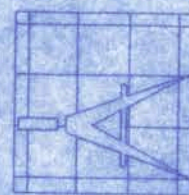
ANSI/AAMA/NWDA 101/S2 2/97

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

MATTHEW AND NANCY DOWLING RESIDENCE

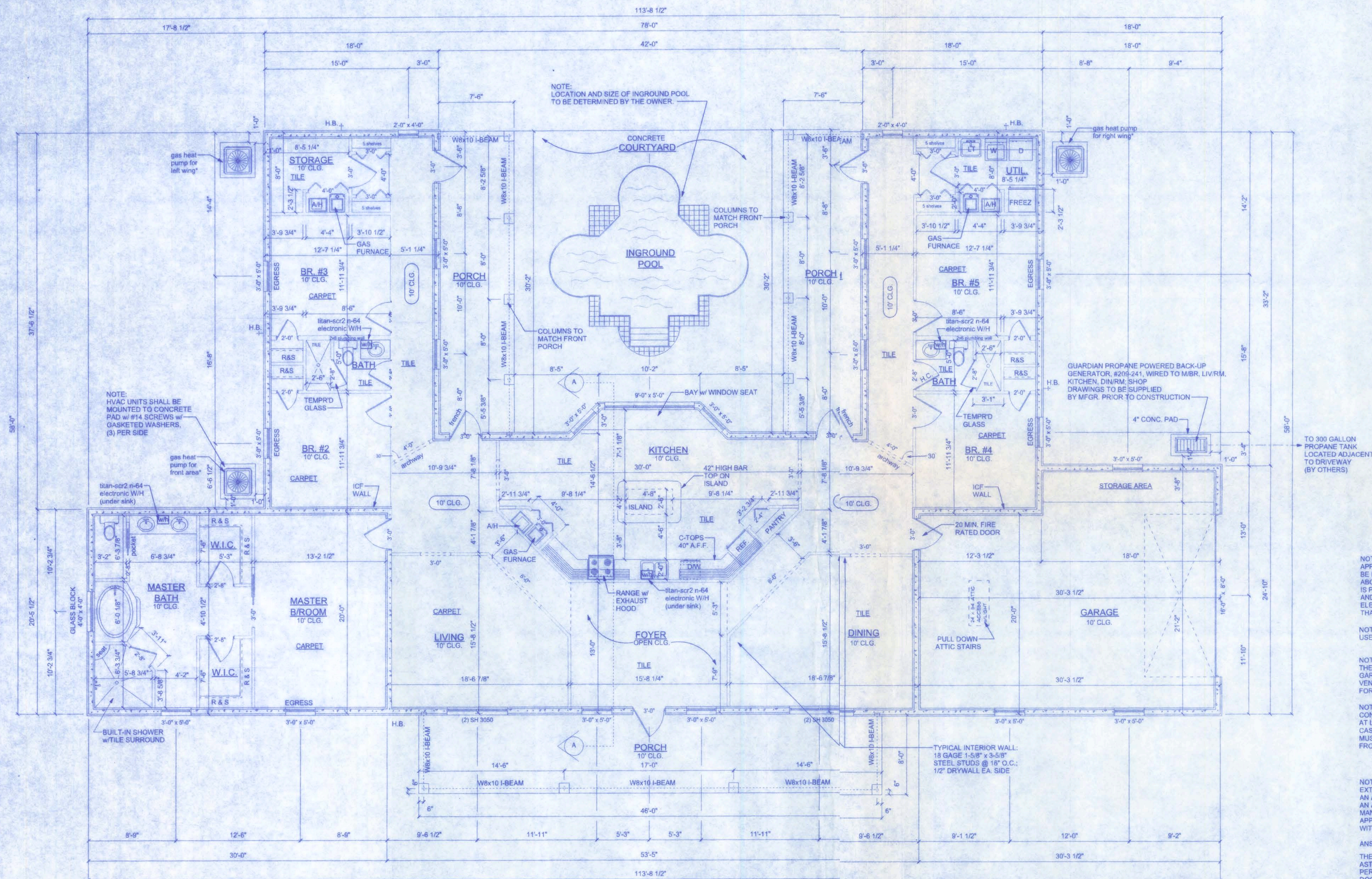
161 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386)758-4209

CERTIFICATE OF AUTHORIZATION # 00057011



Freeman Design Group Inc.

DATE	DRAWN BY
11/06/07	J.T.D.
	APPROVED BY
	W.H.F.
REVISIONS	
SHEET	A-1
OF	9
PROJECT NO.	
04.R032	



NOTE:
ALL EXTERIOR WALLS ARE TO BE POLYSTEEL
ICF (INSULATED CONCRETE FORMS) WALL
SYSTEMS, 6" FORM PS-3000, AND SHALL BE
CONSTRUCTED IN ACCORDANCE WITH THE
MANUFACTURER'S RECOMMENDATIONS

PRODUCT CODE	SIZE	COUNT
36x80 Thermo-tru steel	3'-0"	4
36x80 Thermo-tru french	3'-0"	2
2468 BF	2'-4"	1
3068-2 BF	3'-0"	5
4068-2 BF	4'-0"	2
32x80 glass door	2'-8"	2
2068 colonial	2'-0"	4
2868 colonial	2'-8"	1
3068 colonial	3'-0"	7
168x60 45bay (4 sections)	14'-0" x 5'-0"	1
(2) SH 3050	6'-0" x 5'-0"	4
SH 2040	2'-0" x 4'-0"	2
SH 3050	3'-0" x 5'-0"	13
SH 4050	4'-0" x 5'-0"	2

NOTE:
APPLIANCES LOCATED IN PRIVATE GARAGES SHALL
BE INSTALLED WITH A MINIMUM CLEARANCE OF 6 FEET
ABOVE THE FLOOR EXCEPT WHERE THE APPLIANCE
IS PROTECTED FROM MOTOR VEHICLE IMPACT. EQUIPMENT
AND APPLIANCES HAVING AN IGNITION SOURCE SHALL BE
ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS
THAN 18" ABOVE THE FLOOR.

NOTE:
USE HANDICAP TOILETS IN ALL BATHROOMS.

NOTE:
THE MINIMUM NATURAL VENTILATION AREA REQUIRED FOR
GARAGES SHALL BE 4 PERCENT OF THE FLOOR AREA BEING
VENTILATED. THE MINIMUM MECHANICAL VENTILATION
FOR GARAGES SHALL BE 100 CFM PER CAR.

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

NOTE:
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY
AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR
AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE
MANUFACTURER, PERFORMANCE CHARACTERISTICS AND
APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE
WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWDA-101/IS2-2/97

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH
ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL
PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND
DOORS BY UNIFORM STATIC AIR PRESSURE.

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

*NOTE:
TRANE XL1600 (YC2)
PACKAGED XL 1600 GAS ELECTRIC
OR COMPARABLE AS DETERMINED
BY OWNER AND HVAC CONTRACTOR

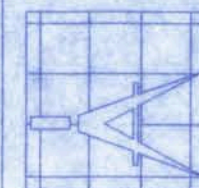
FLOOR PLAN
SCALE: 3/16" = 1'-0"

AREAS:	
MAIN LIVING	3416 SF
GARAGE	698 SF
PORCHES	776 SF
TOTAL	4890 SF

Matthew H. Dowling
11/15/07
Per # 58001

MATTHEW AND NANCY DOWLING RESIDENCE

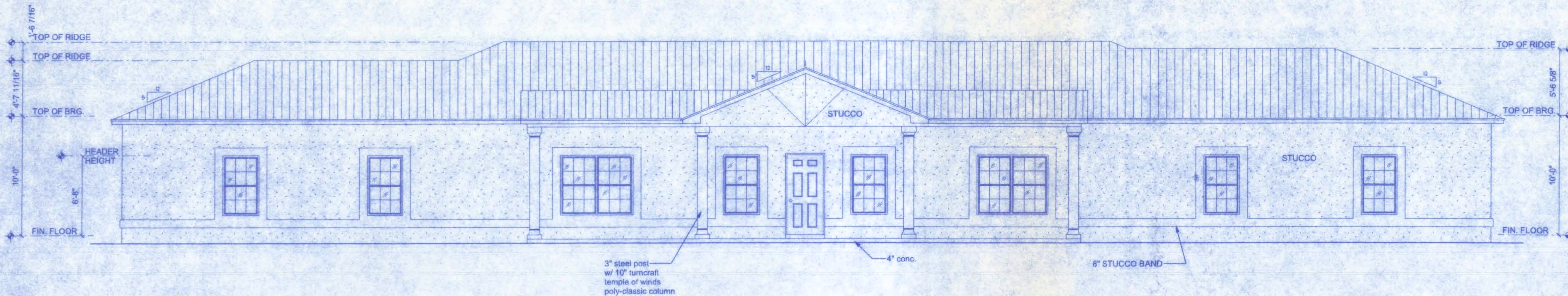
161 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(888)758-4209



Freeman
Design Group
INC.

DATE	DRAWN BY
11/06/07	J.T.D.
	APPROVED BY
	W.H.F.
REVISIONS	
SHEET	A-2
OF	9
PROJECT NO.	04.R032

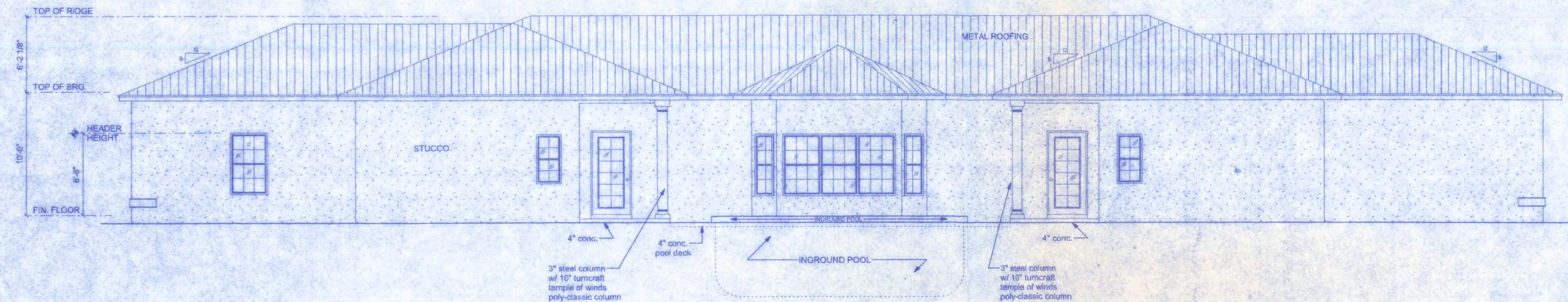
CERTIFICATE OF AUTHORIZATION # 00008701



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

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

NOTE: VENTILATE ROOF TO 1/300TH THE INSULATED ATTIC.

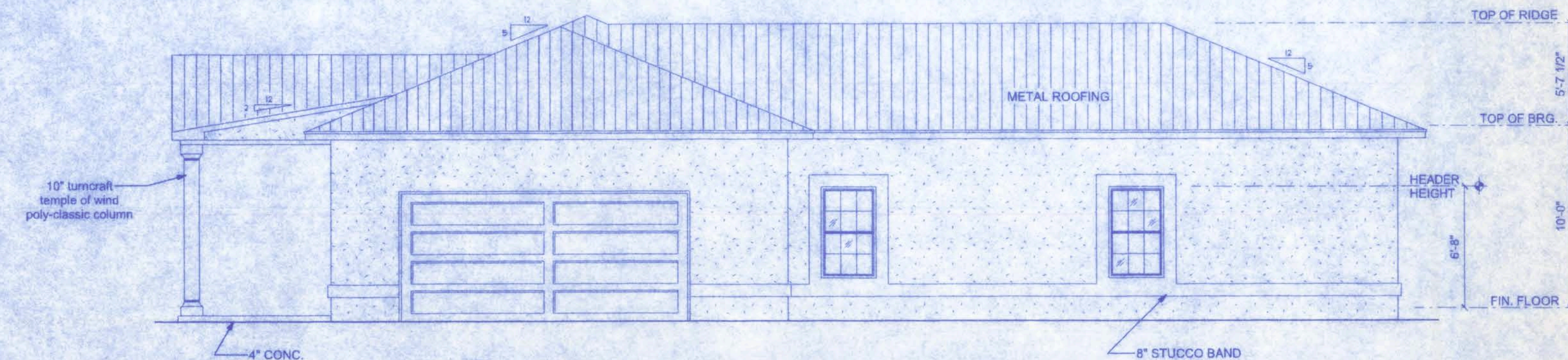


REAR ELEVATION
SCALE: 3/16" = 1'-0"

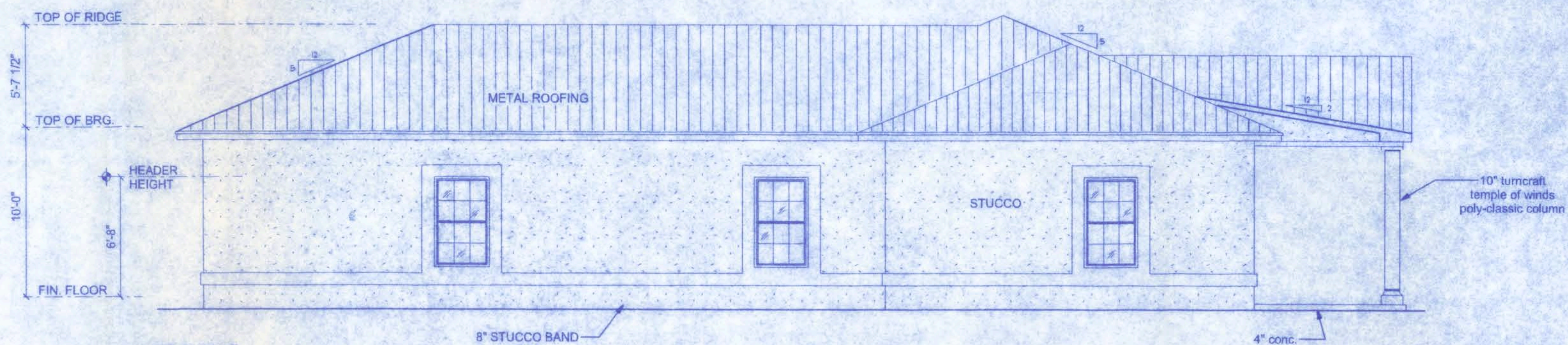
CONSTRUCTION DOCUMENTS:
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF
CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE
ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY
RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING
CONDITIONS, ELEVATIONS, AND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

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

CHANGES TO PLAN SETS:
PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT
CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY
AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE
TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM
SPECIFICATIONS ON THE PLANS.



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



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

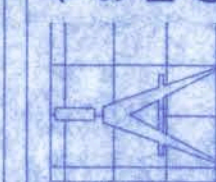
NOTE: VENTILATE ROOF TO 1/300TH THE INSULATED ATTIC -
(4114 SF / 300 SF = 13.71 SF * 144 SQ. IN. = 1974.72 SQ. INCHES VENTILATION)

GENERAL NOTES

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD. FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED, THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

161 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 758-4209

CERTIFICATE OF AUTHORIZATION # 00008701



Freeman
Design Group inc.

DATE: 11/06/07
DRAWN BY: J.T.O.
APPROVED BY: W.H.F.

REVISIONS

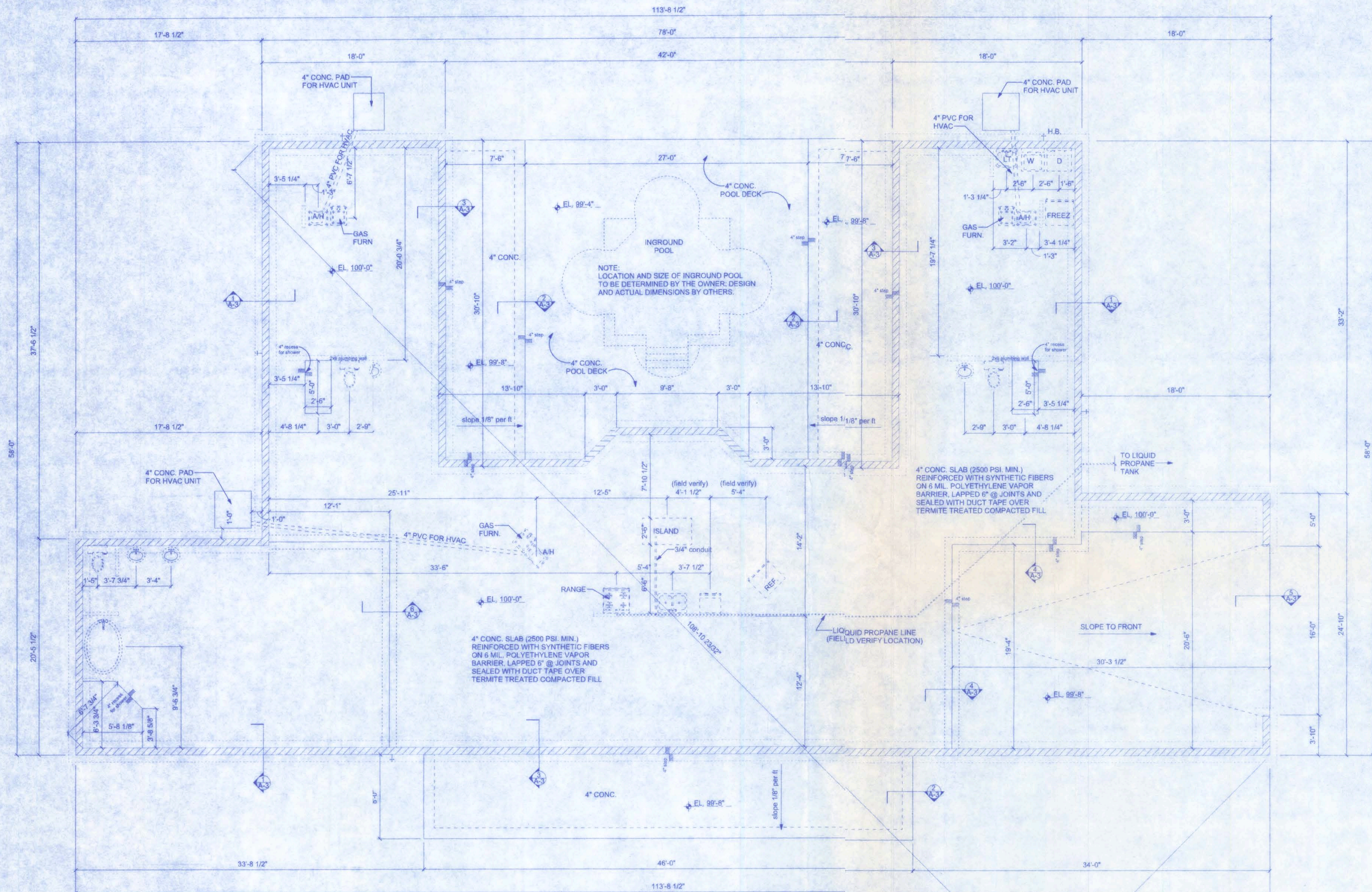
SHEET: A-3

OF: 9

PROJECT NO:
04.R032

**MATTHEW ANID NANCY
DOWLING RESIDENCE**

Matthew H. Freeman
11/5/07
R.H. Steel



FOUNDATION NOTES:

- REINFORCING STEEL SHALL BE MINIMUM GRADE 40.
- CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- COVER OVER REINFORCING STEEL FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FROM THE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BAR AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MINIMUM COVER INCLUDING GROUT OF NOT LESS THAN 1 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER AND 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.
- GALVANIZATION:
- METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153 CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
- REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
- ALL REINFORCEMENT IS BENT COLD.
 - THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX BAR DIAMETERS AND
 - REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE EXCEPTED WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL. BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

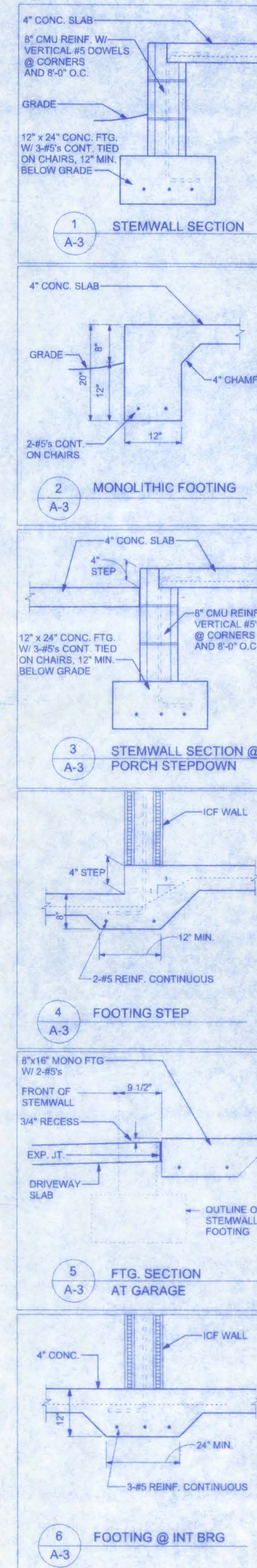
SLAB REQUIREMENTS

- JOINTS ARE NOT REQUIRED IN UNREINFORCED PLAIN CONCRETE SLABS ON GROUND OR IN SLABS FOR ONE AND TWO FAMILY DWELLINGS COMPLYING WITH ONE OF THE FOLLOWING:
- CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY THE BUILDING OFFICIAL; OR
 - CONCRETE SLABS ON GROUND CONTAINING 6x6 W1.4 x W1.4 WELDED WIRE REINFORCEMENT FABRIC LOCATED IN THE MIDDLE TO THE UPPER 1/3 OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIAL OR SUPPORTS AT SPACING NOT TO EXCEED 3 FT OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. WELDED PLAIN WIRE REINFORCEMENT FABRIC FOR CONCRETE SHALL CONFORM TO ASTM A 185. STANDARD SPECIFICATION FOR STEEL WELDED WIRE REINFORCEMENT FABRIC, PLAIN, FOR CONCRETE REINFORCEMENT.

FOUNDATION PLAN

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

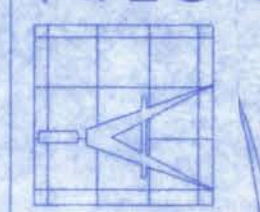
BEARING CAPACITY:
THE FOOTING IS DESIGNED FOR SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 1,500 PSF. THE FOOTINGS SHALL REST ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. AT THE OWNER'S REQUEST, COMPACTED SOILS SHALL BE TESTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR AND COMPACTED IN LIFTS NOT TO EXCEED 12 INCHES.



MATTHEW AND NANCY DOWLING RESIDENCE

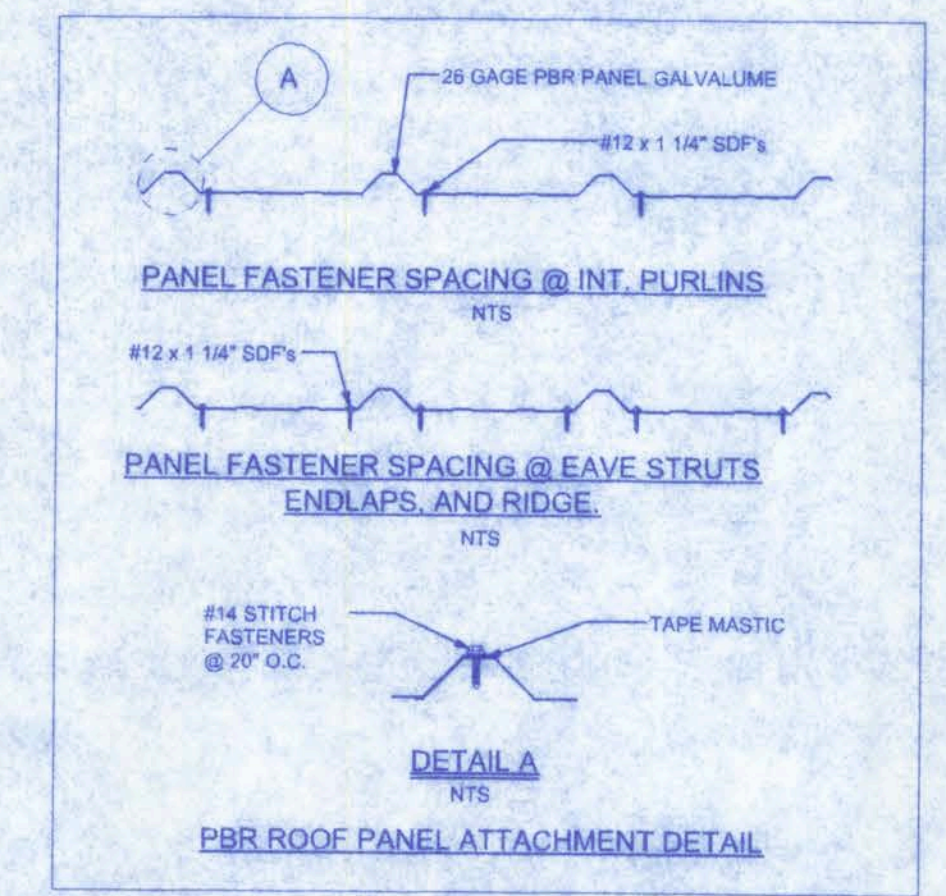
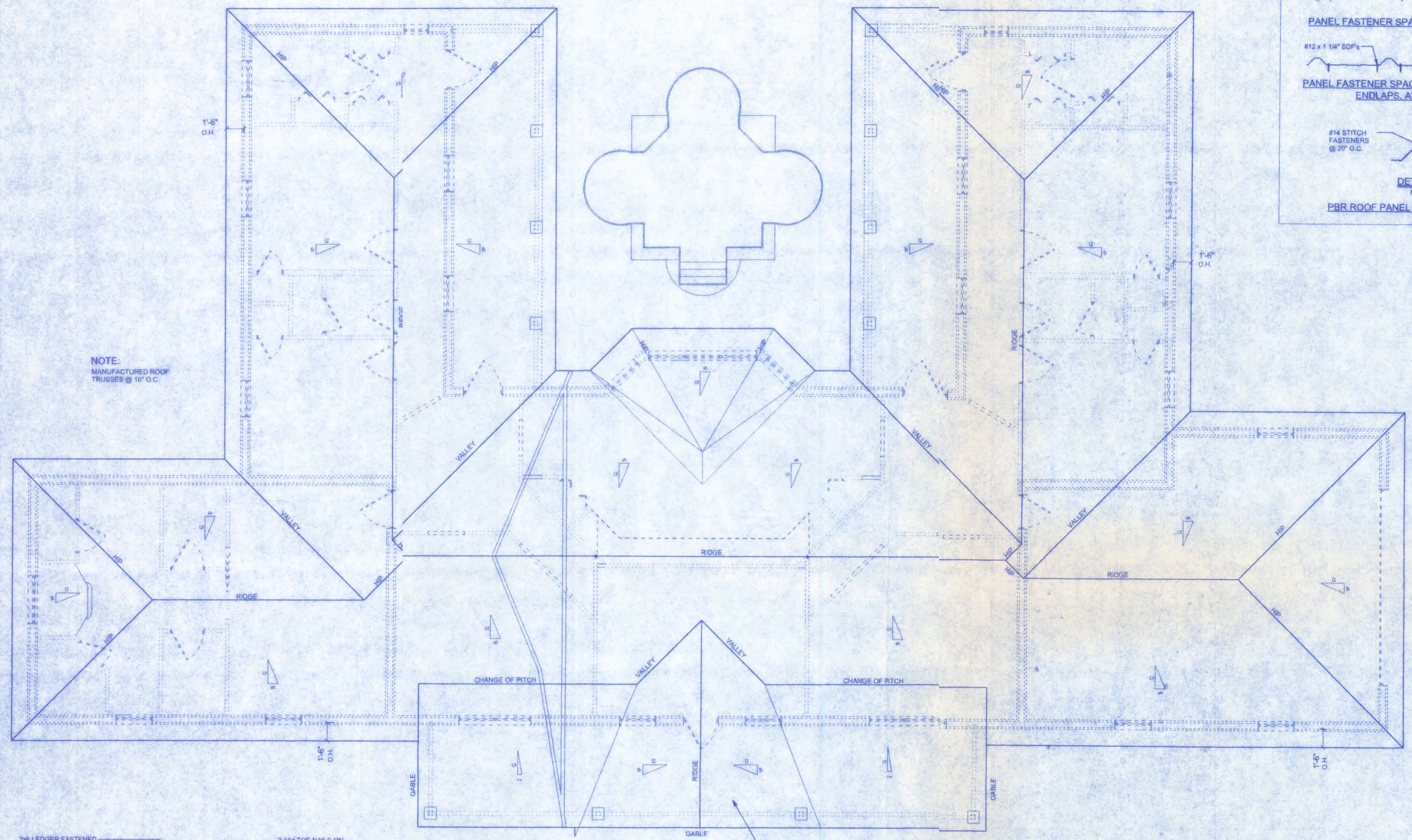
161 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 558-4209

CERTIFICATE OF AUTHORIZATION # 00008701



Freeman
Design Group

DATE	DRAWN BY
11/06/07	J.T.O.
REVISIONS	APPROVED BY
	W.J.F.
SHEET	A-4
OF	9
PROJECT NO.	04.R032



ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2:12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120

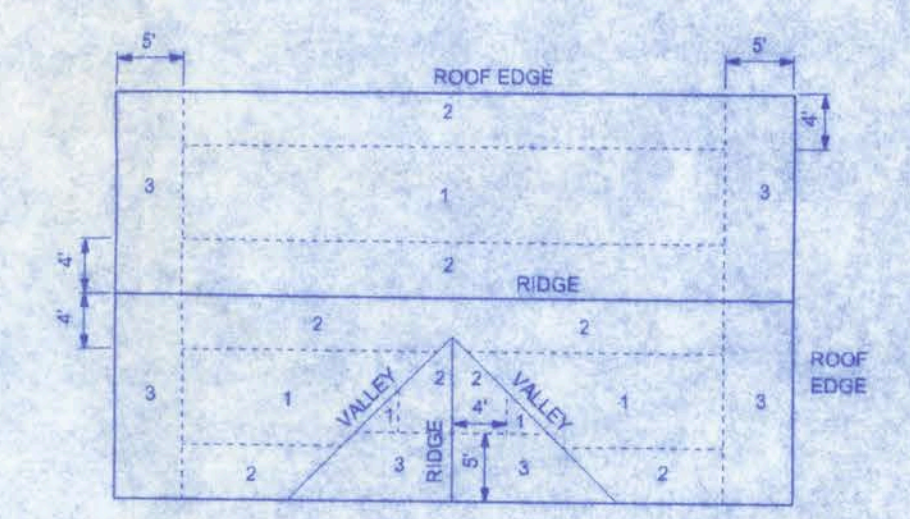
CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE

CONNECTOR	1 PLY-TRUSS	2 PLY-TRUSS	EMBEDMENT	UPLIFT PROVIDED	MANUFACTURER
HETA20	10-10d NAILS		4"	1,250 LBS	SIMPSON
HETA30		11-16d NAILS	4"	1,850 LBS	SIMPSON
	TRUSS B2 AND C3		TIE BEAM		
MGT	22-10d NAILS		1-5/8"x10" ANCHOR BOLT	3,950 LBS	SIMPSON
LGT2	18-18d SINKER		7-1/4" x 2 1/4" TITEN	2,150 LBS	SIMPSON

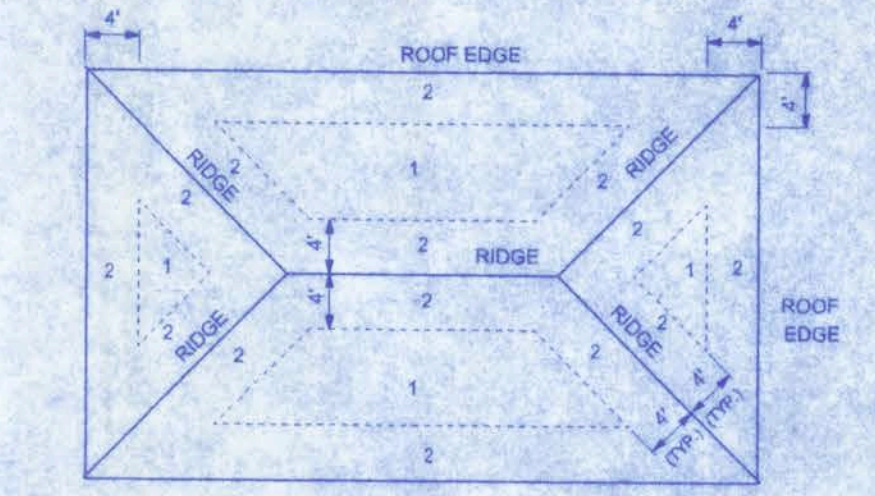
NOTE: COMBINE BOTH THE SIMPSON MGT AND LGT2 ON TRUSSES WITH HIGHER UPLIFT

ROOF SHEATHING FASTENINGS

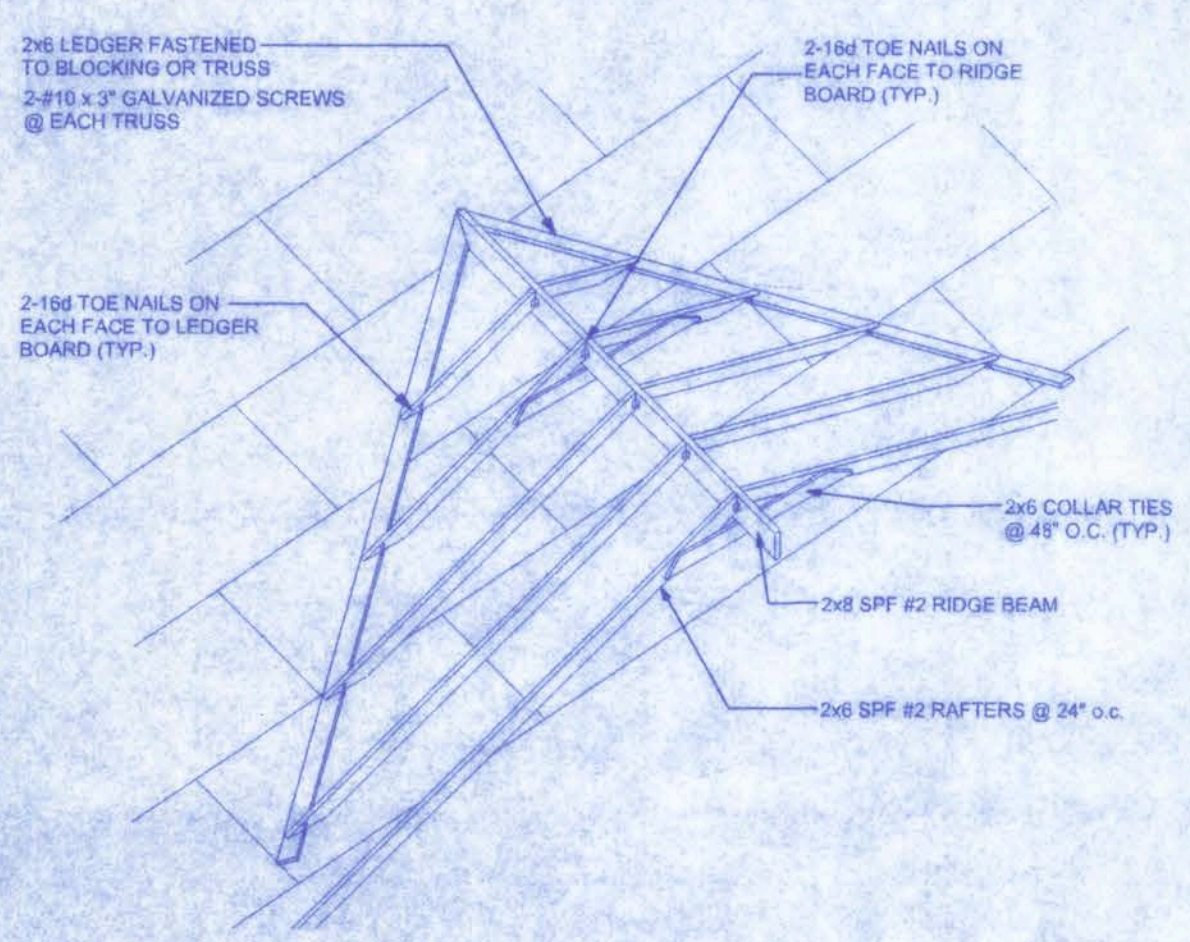
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1			6 in. o.c. EDGE 12 in. o.c. FIELD
2	3/4" CDX	10d COMMON OR 10d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



ROOF SHEATHING NAILING ZONES (GABLE ROOF)



ROOF SHEATHING NAILING ZONES (HIP ROOF)



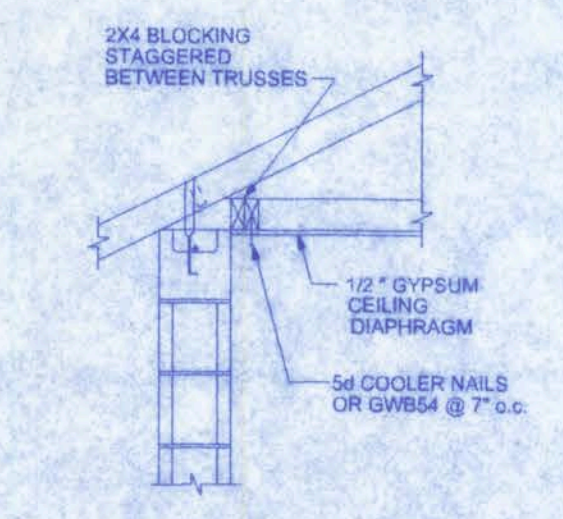
ROOF INTERSECTION CONNECTION DETAIL
NTS

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

LINTEL LOAD TABLE (PLF)

LENGTH	CLEAR SPAN	TYPE	FILLED	FILLED + BEAM
4'-6"	3'-2"	A	3,000+	6,000+
7'-6"	6'-2"	B	1,761	4,599
10'-4"	9'-0"	C	1,108	2,744
13'-4"	12'-0"	D	668	1,746
17'-4"	16'-0"	E	613	1,366

MINIMUM LOAD REQUIREMENT SHALL BE 1,320 PLF
FILLED = LinTEL filled with 3000 psi concrete with 1 - #5 rebar
FILLED + BEAM = Acting as composite beam with an 8" perimeter beam 1 - #5 rebar in lintel, 1 - #5 rebar in perimeter beam

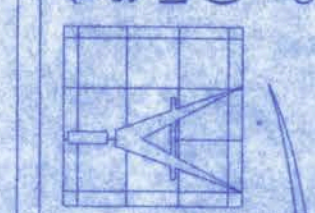


B GYPSUM CEILING DIAPHRAGM TO SIDEWALL CONNECTION

Walter H. Freeman
11/5/07
18 1/4 sheets

MATTHEW AND NANCY
DOWLING RESIDENCE

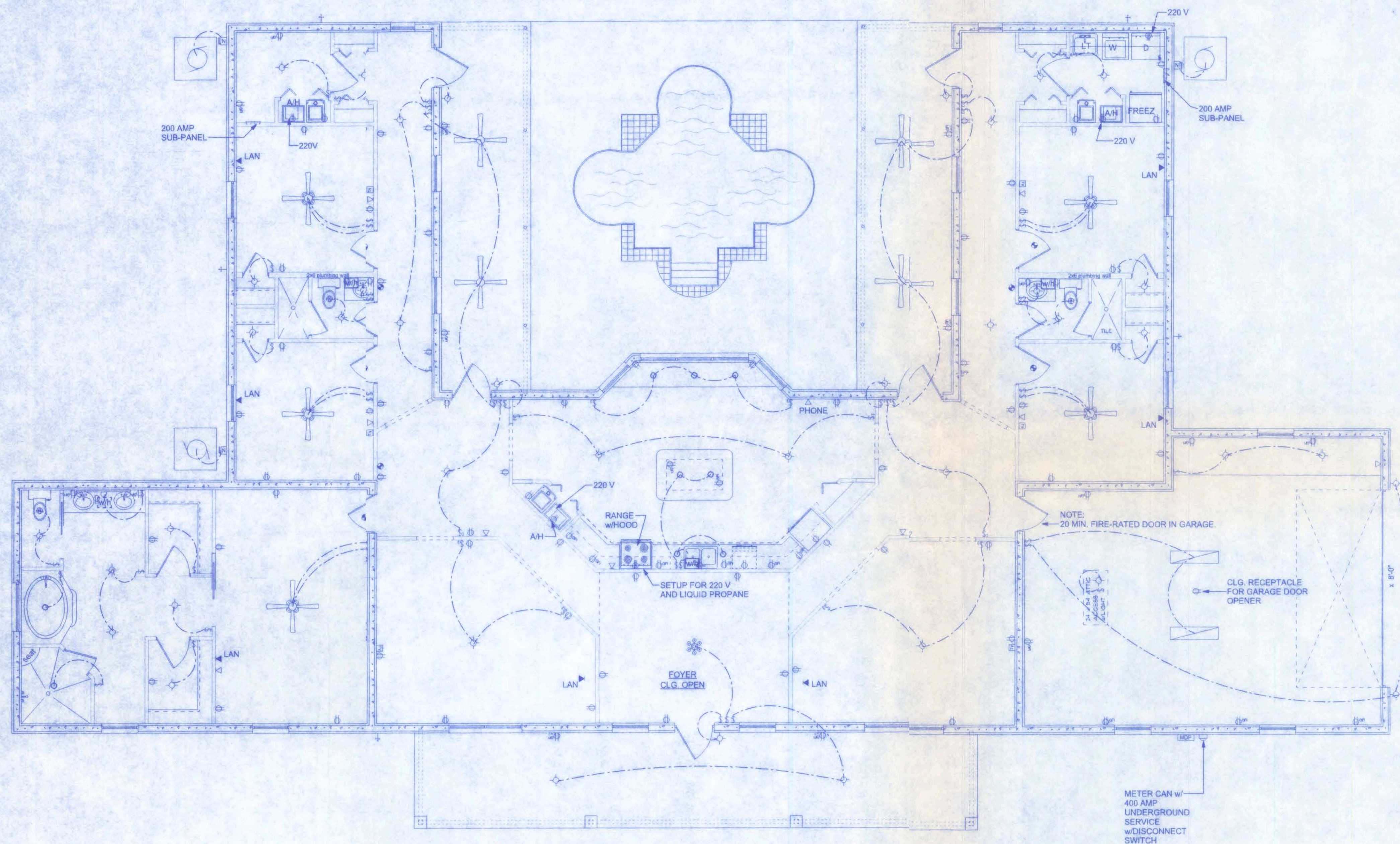
161 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(886) 758-4209



Freeman
Design Group, Inc.

DATE	DRAWN BY
11/06/07	J.T.D.
	APPROVED BY
	W.H.F.
REVISIONS	
SHEET	
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ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL	SYMBOL
ceiling fan	
fluorescent fixture	
pot light	
track light	
electric motor	
electrical panel	
inline water heater	
main distribution panel	
meter can	
non-fused disconnect	
50 cfm exhaust fan	
LAN connection	
cable tv outlet	
light	
outlet	
outlet 220v	
outlet gfi	
smoke detector	
switch	
switch 3 way	
telephone	
weatherproof gfi	

ELECTRICAL PLAN NOTES

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

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

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE

ALL SMOKE DETECTORS SHALL BE 120W 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 THE LATEST EDITION.

ELECTRICAL CONTR' SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDING TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT NO., 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.

ELECTRICAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES.
2. OPTIONAL SECURITY LIGHT SWITCH LOCATIONS TO BE MADE DURING CONSTRUCTION.
3. PREWIRE LOW VOLTAGE CONTROL WIRING FOR ELECTRIC GARAGE DOOR OPENERS.
4. PROVIDE WIRING AS REQUIRED FOR AIR CONDITONING, HEATING, AND WATER HEATING EQUIPMENT.

NOTE: ALL SMOKE DETECTORS TO BE WIRED TOGETHER TO ACTUATE ALL ALARMS IF ANY ONE UNIT IS ACTUATED.

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

William H. Freeman
11/5/07
R.D. 3004

**MATTHEW AND NANCY
DOWLING RESIDENCE**

161 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209

CERTIFICATE OF AUTHENTICATION # 00000701

Freeman
Design Group Inc.

DATE: 11/06/07
DRAWN BY: J.T.D.
APPROVED BY: W.H.F.

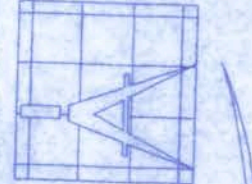
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04.R032

1/15/07
P.E. # 51401

MATTHEW AND NAINCY DOWLING RESIDENCE

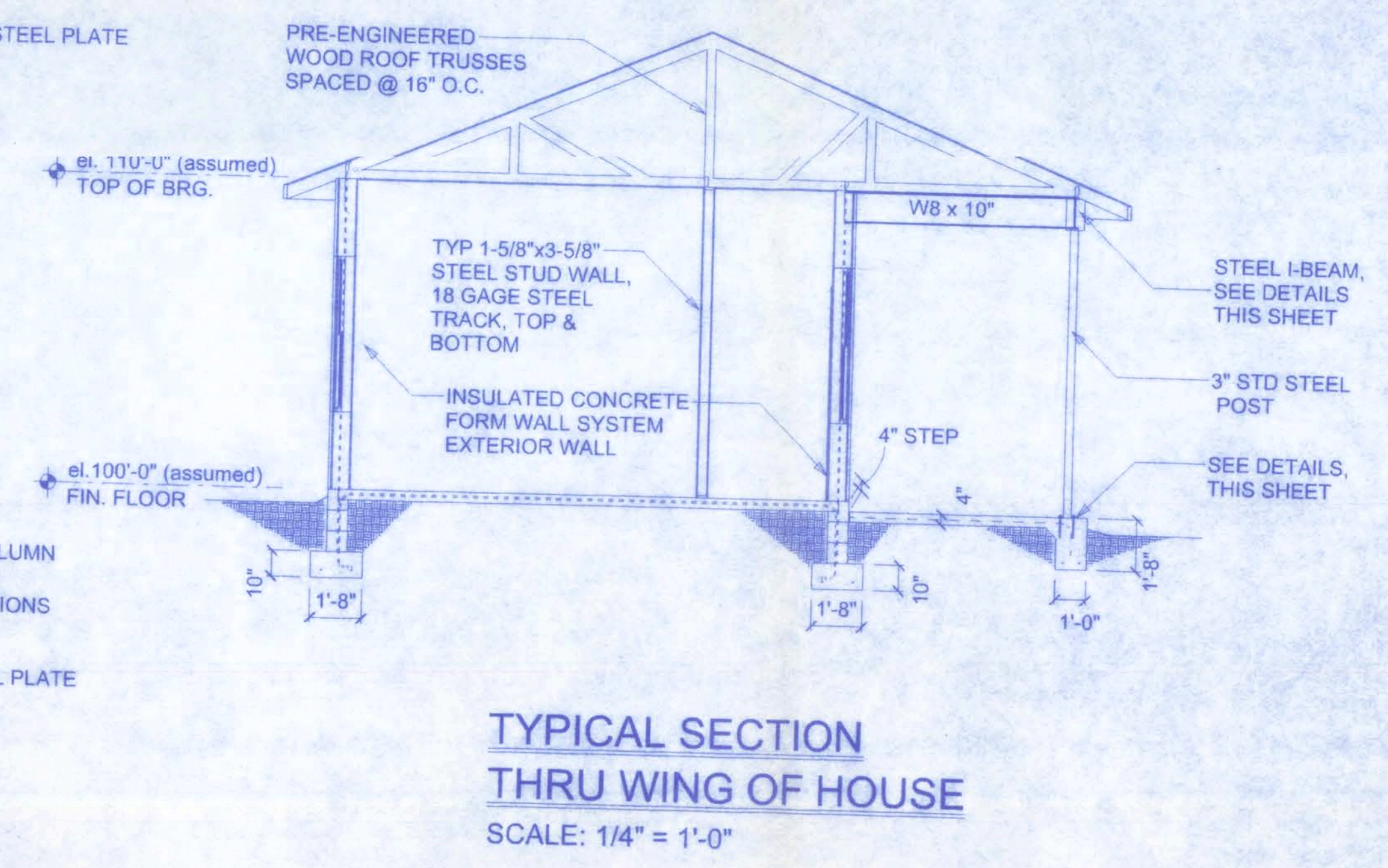
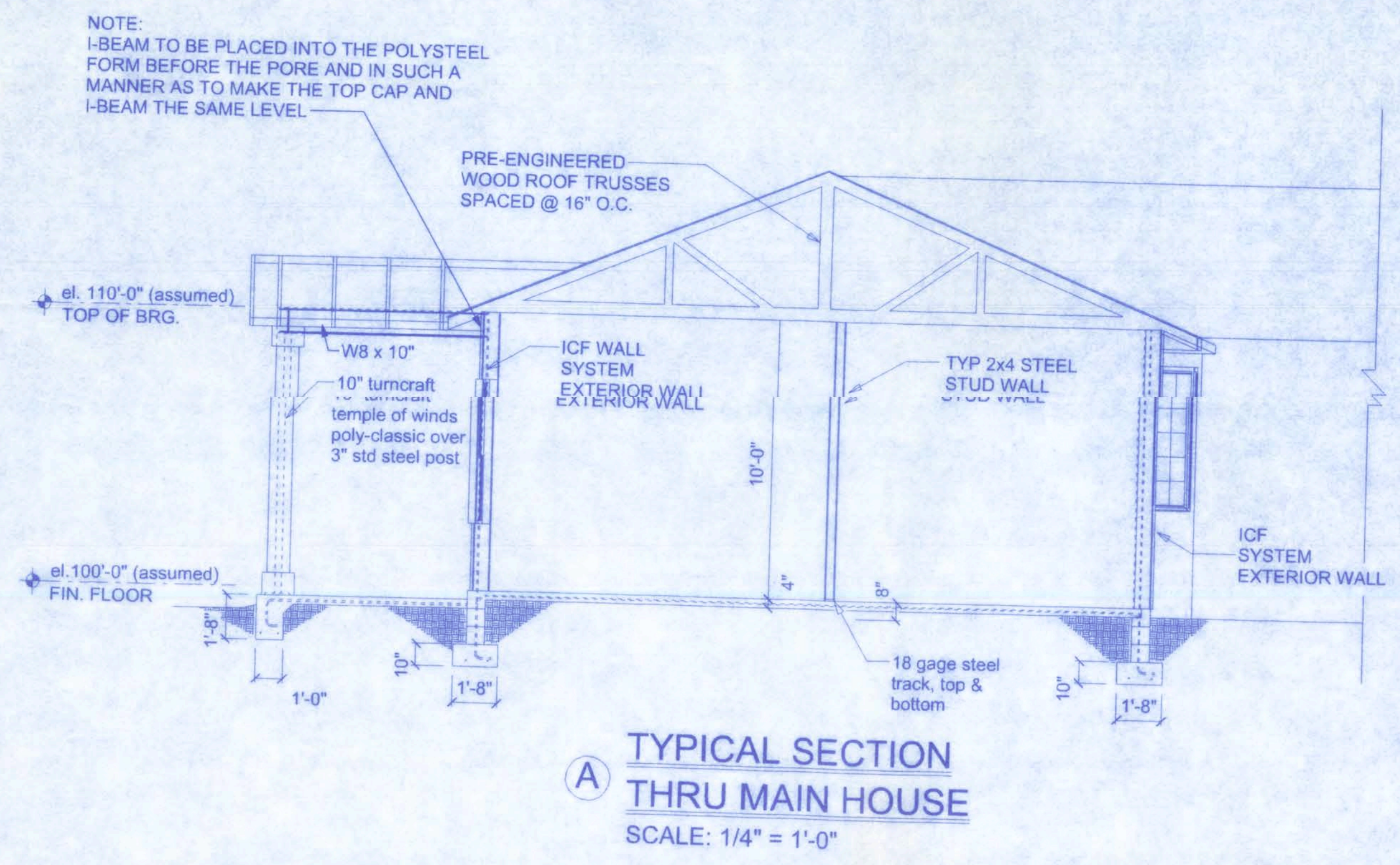
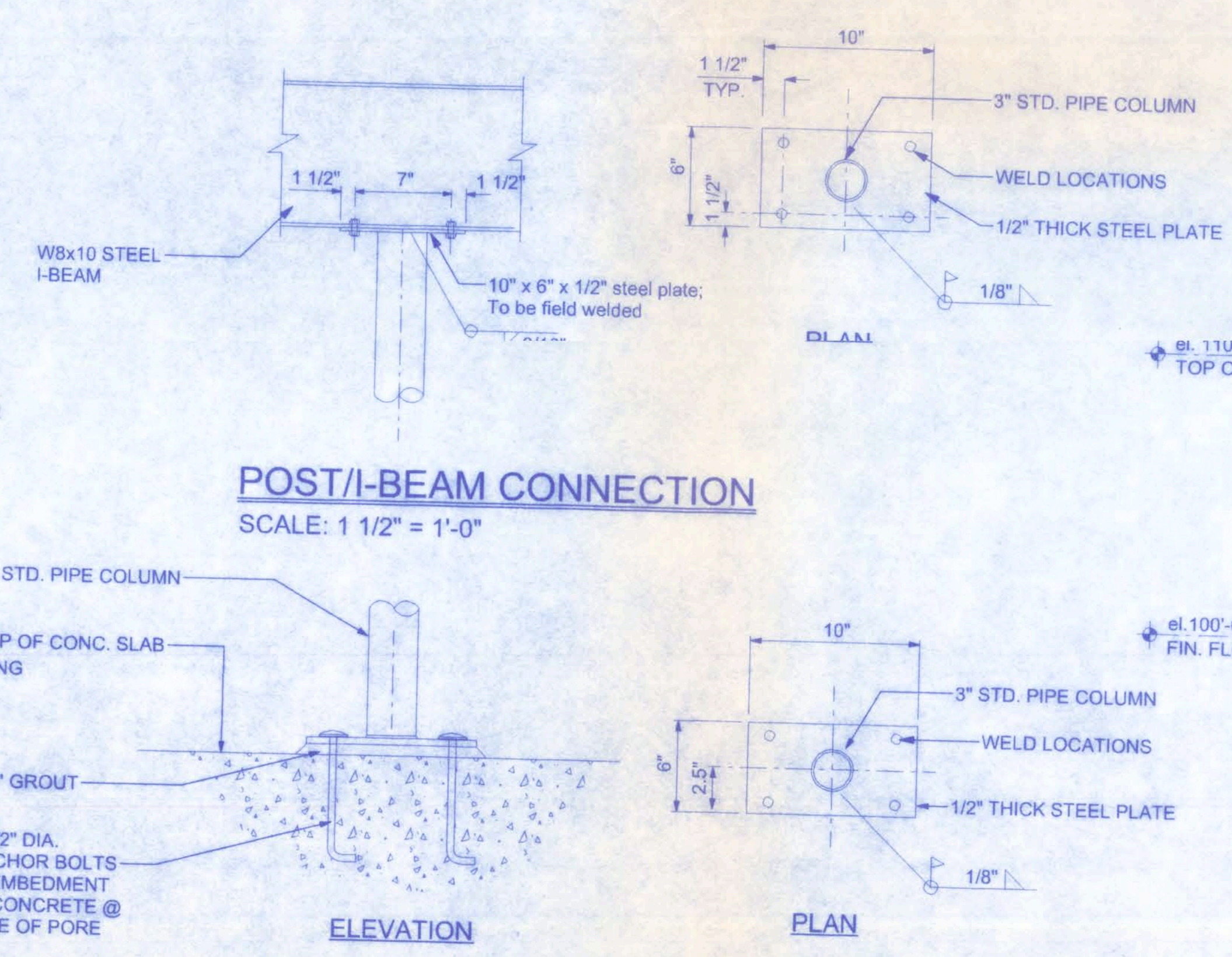
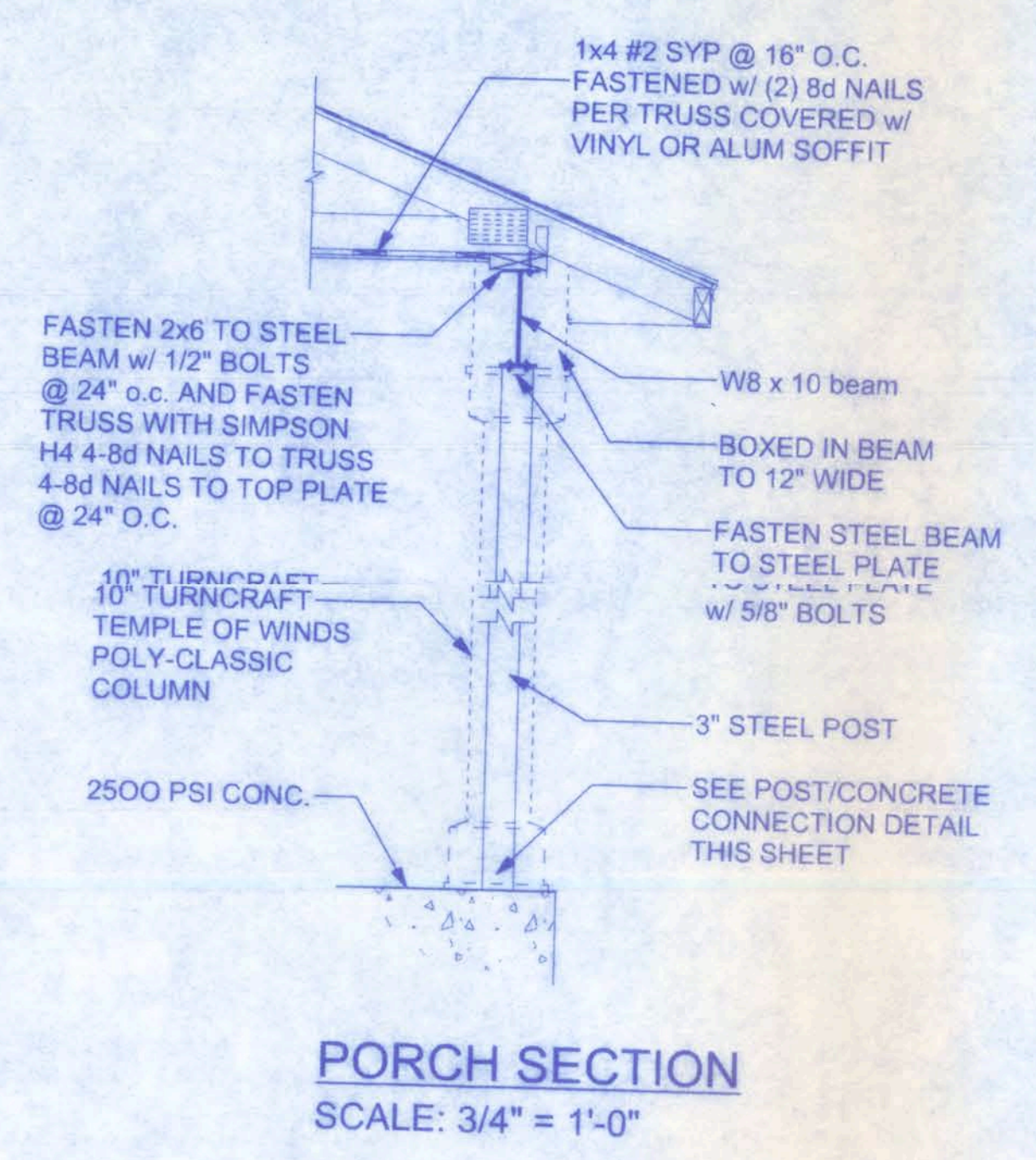
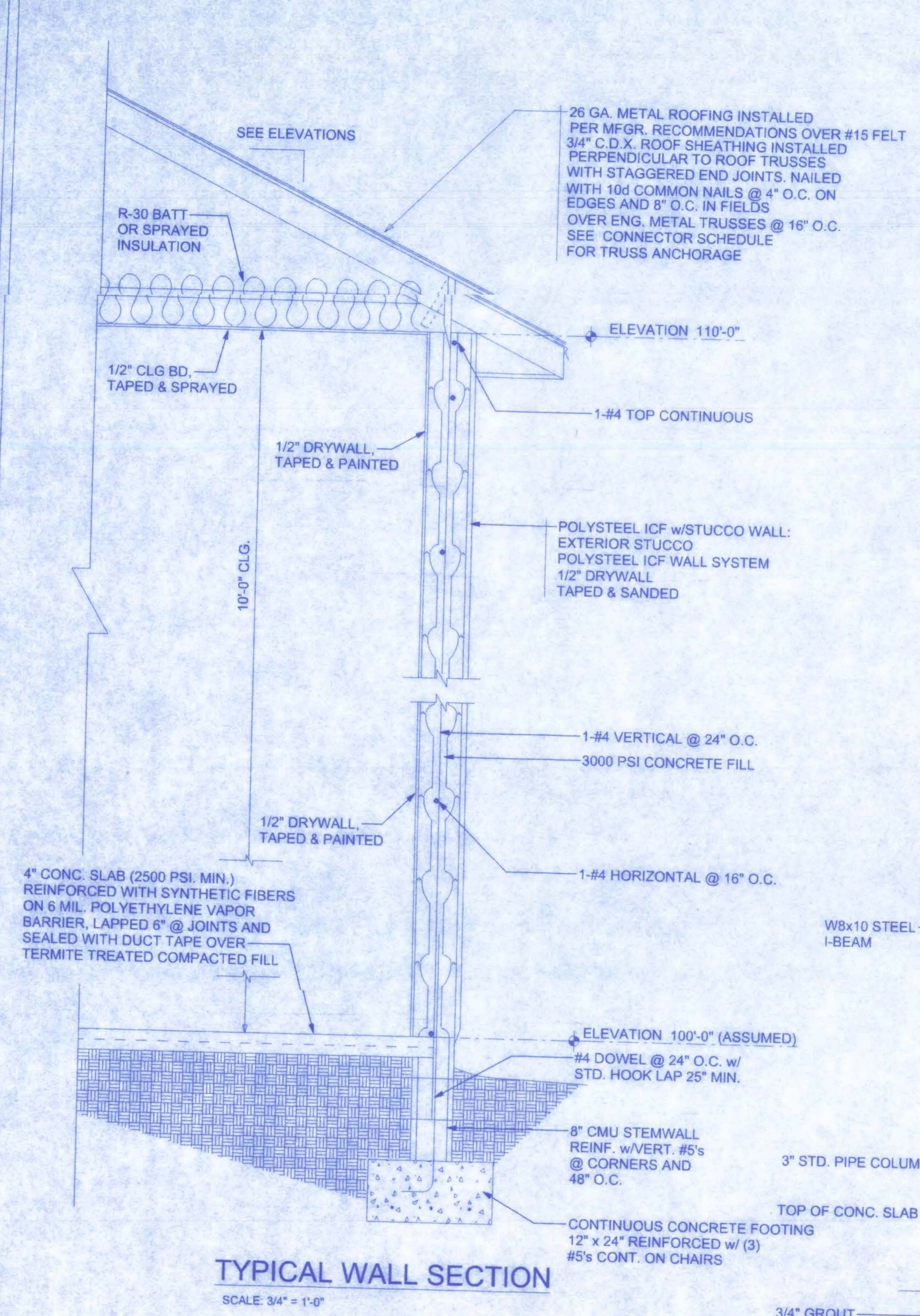
161 N.W. MADISON STREET
SUITE #1C
LAKE CITY, FL 32055
(386) 738-409

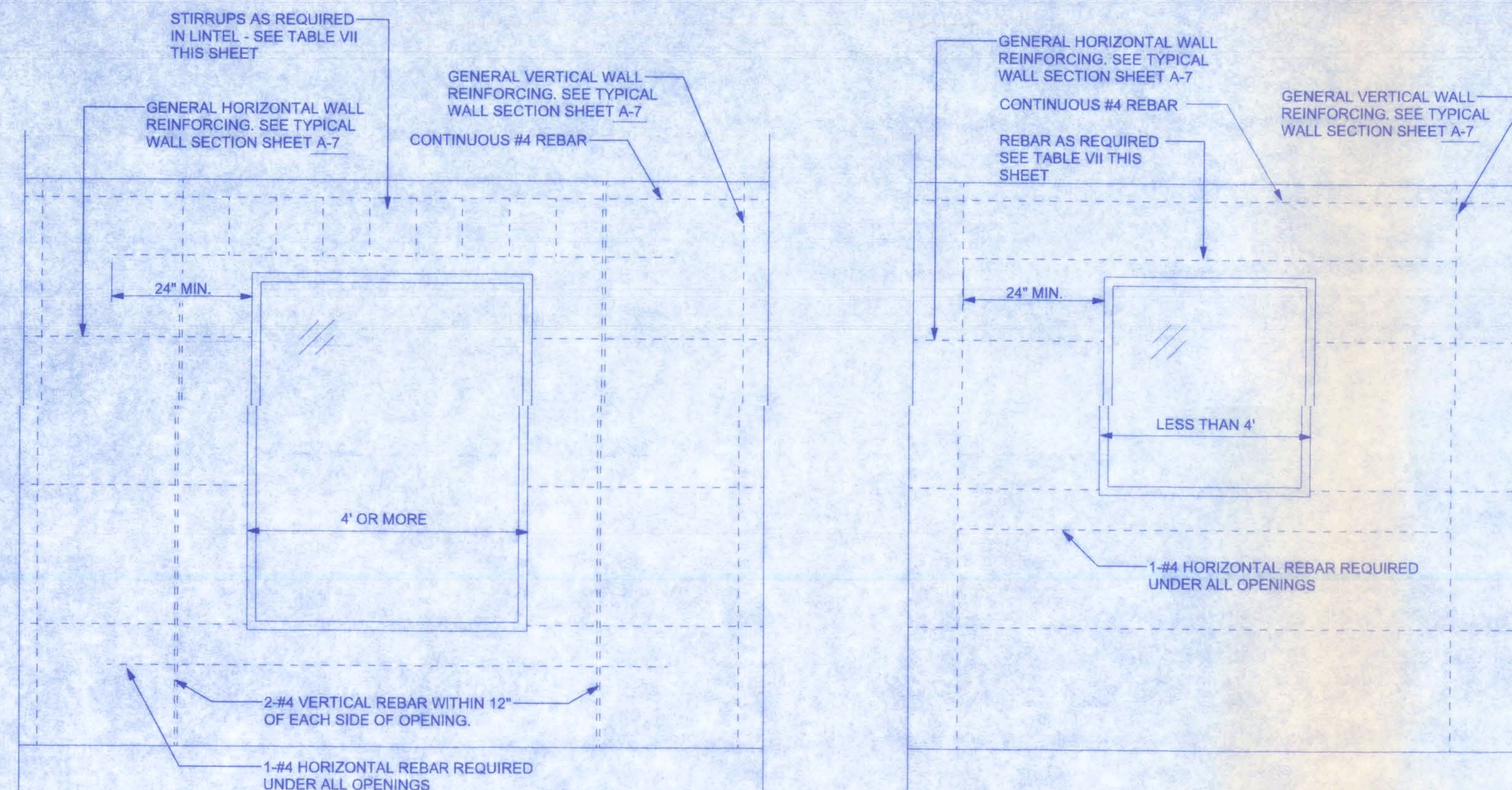


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Design Group

CERTIFICATE AUTHORIZATION # 00082701

DATE	DRAWN BY
11/06/07	J.T.D.
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	W.H.F.
REVISIONS	
SHEET	A-7
OF	9
PROJECT NO.	
04.R032	





- NOTES:**
1. WALL REINFORCING IN THESE ELEVATIONS ARE SHOWN DIAGRAMATICALLY ONLY. SEE SECTIONS FOR EXACT SPACING AND PLACEMENT OF REINFORCING WITHIN CELLS.
 2. PROVIDE TEMPORARY SHORING TO SUPPORT CAST IN PLACE LINTEL. REMOVE ONLY AFTER 75% F_c OR 7 DAYS.
 3. HORIZONTAL REBAR MUST EXTEND 24 INCHES BEYOND EACH SIDE OF THE OPENING.

REINFORCEMENT AROUND OPENINGS

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

TABLE VII
MINIMUM REBAR REQUIREMENTS FOR 24" DEEP POLYSTEEL LINTELS

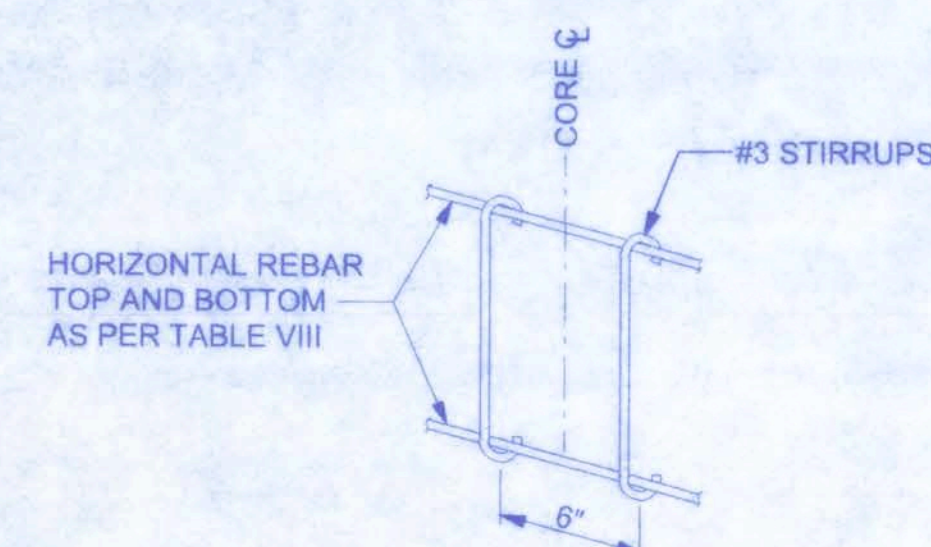
LOAD PER FOOT OF LINTEL	LINTEL SPAN (FT)											
	1.5	2	3	4	5	6	7	8	9	10	12	14
300 LB	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5
500 LB	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5
1000 LB	#5	#5	#5	#5	#5	#5	#5	#5	#5	2-#5	2-#5	2-#5
1500 LB	#5	#5	#5	#5	#5	#5	#5	#5	2-#5	2-#5		
2000 LB	#5	#5	#5	#5	#5	#5	#5	#5	2-#5			

- NOTES:**
1. "U" = 1.4 X DEAD LOADS + 1.7 X LIVE LOADS
 2. CENTER THE REQUIRED HORIZONTAL REBAR (AS SHOWN IN THE TABLE ABOVE) IN THE BOTTOM HORIZONTAL CORES OF THE FORM LINTEL.
 3. REFER TO DRAWING "REINFORCEMENT AROUND OPENINGS" FOR OTHER REINFORCING REQUIRED AROUND OPENINGS.
 4. SEE THE DRAWING ENTITLED "TYPICAL LINTEL STIRRUPS" FOR PROPER STIRRUP INSTALLATION.
 5. 1-#7 REBAR CAN BE SUBSTITUTED FOR 2-#5 REBARS
 6. MINIMUM OF 3,000 PSI CONCRETE AND 40,000 PSI DEFORMED STEEL REBAR
 7. LINTEL/LOAD COMBINATIONS WHICH ARE TO THE RIGHT OF THE HEAVY SOLID LINE REQUIRE SHEAR REINFORCEMENT. STIRRUPS FABRICATED FROM #3 REBAR AND SPACED @ 6" O.C. OVER THE ENTIRE LINTEL SPAN MUST BE USED IN ADDITION TO THE HORIZONTAL REINFORCEMENT SHOWN IN THE ABOVE TABLE. SEE DRAWING ENTITLED "TYPICAL LINTEL STIRRUPS" THIS PAGE.

TABLE VIII
MINIMUM REBAR REQUIREMENTS FOR SHALLOW LINTELS

HEIGHT OF POLYSTEEL LINTEL	LINTEL SPAN (FT)							
	1.5	2	3	4	5	6	7	8
8 INCHES	#5	#5	#5	#5				
10 INCHES	#5	#5	#5	#5	#5	2-#5		
12 INCHES	#5	#5	#5	#5	#5	#5	2-#5	
14 INCHES	#5	#5	#5	#5	#5	#5	2-#5	2-#5

- NOTES:**
1. THIS TABLE IS FOR A FACTORED LOAD OF UP TO A MAXIMUM OF 2,000 LBS. PER LINEAR FOOT OF LINTEL. (U = 1.4 X DEAD LOADS + 1.7 X LIVE LOADS).
 2. RECREATE THE CONTINUOUS HORIZONTAL CONCRETE BEAM WHICH HAS BEEN CUT OFF. DO THIS BY REMOVING A PORTION OF THE BULKY PARTS OF THE EXPANDED POLYSTYRENE AND THE EXPANDED STEEL. (SEE SKETCH THIS SHEET)
 3. CENTER THE REQUIRED HORIZONTAL REBAR (AS SHOWN IN TABLE VI) IN THE BOTTOM HORIZONTAL CONCRETE BEAMS OF THE LINTEL FORMS.
 4. SHEAR REINFORCEMENT STIRRUPS ARE REQUIRED FOR ALL "SHALLOW" POLYSTEEL FORM LINTELS. SPACE THE STIRRUPS AT 6 INCHES ON CENTER OVER THE ENTIRE LINTEL SPAN.
 5. TABLE BASED ON 3,000 PSI CONCRETE AND 40,000 PSI DEFORMED STEEL REBAR.
 6. REFER TO TABLE VII FOR POLYSTEEL FORM LINTELS WHICH ARE FULL 16 INCHES IN HEIGHT.
 7. REFER TO DRAWING "REINFORCEMENT AROUND OPENINGS" FOR OTHER REINFORCEMENT REQUIRED AROUND OPENINGS.

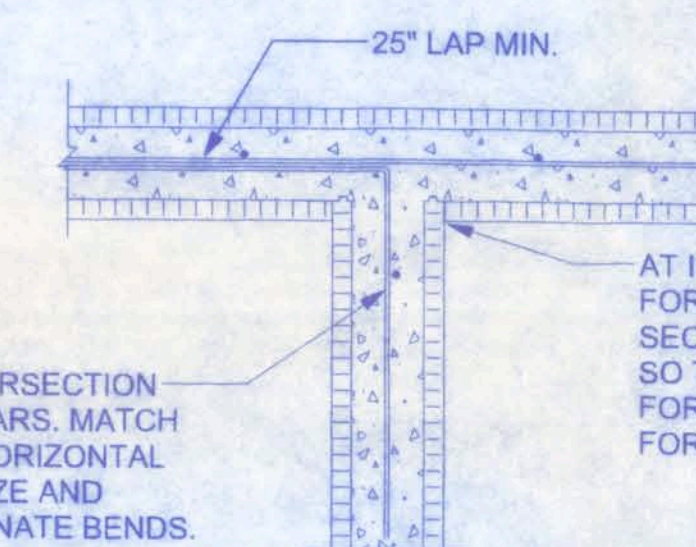


NOTE:
STIRRUPS ARE FABRICATED FROM #3 REBAR, $F_y = 60,000$ PSI, AND INSTALLED IN EACH VERTICAL CORE (12" O.C.) ACROSS THE ENTIRE LENGTH OF THE LINTEL. STIRRUP ENDS MUST BE HOOKED AROUND THE HORIZONTAL BAR WITH AT LEAST 135-DEGREE BEND.

TYPICAL LINTEL STIRRUPS

POLYSTEEL GENERAL NOTES

1. THIS STRUCTURE UTILIZES POLYSTEEL ICF WALL SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALTERNATE ICF WALLS MAY NOT BE SUBSTITUTED UNLESS ENGINEERING IS PROVIDED AND APPROVED BY THE REVIEWING AGENCY.
2. ALL CONCRETE SHALL BE 3,000 PSI.
3. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. CONSULT WITH POLYSTEEL FORMS "USER MANUAL" AND POLYSTEEL FORMS "STRUCTURAL DESIGN MANUAL" FOR ADDITIONAL INSTALLATION AND TECHNICAL INFORMATION.
5. CONSULT THE ARCHITECTURAL PLANS FOR ADDITIONAL ARCHITECTURAL AND ENGINEERING REQUIREMENTS.
6. THE WIND DESIGN OF THE POLYSTEEL WALL SYSTEM IS BASED ON SECTION 1609 OF THE 2004 FLORIDA BUILDING CODE FOR 110 MPH WIND, 22 FEET MEAN ROOF HEIGHT.

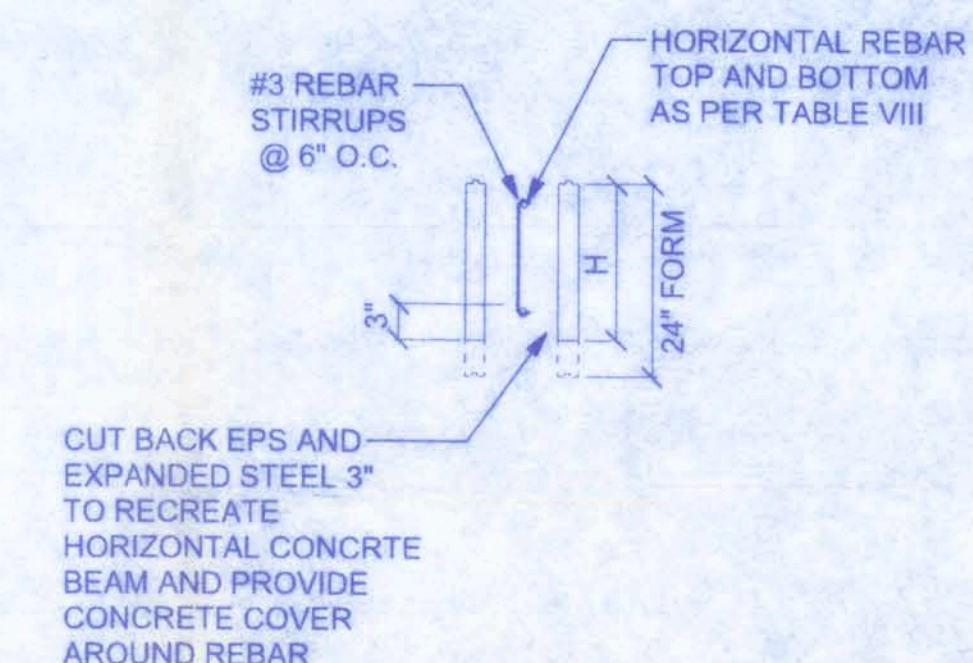


REINFORCE INTERSECTION WITH CORNER BARS. MATCH TYPICAL WALL HORIZONTAL REINFORCING SIZE AND SPACING. ALTERNATE BENDS.

AT INTERSECTING POLYSTEEL FORM WALLS, REMOVE A SECTION OF THE OUTER WALL SO THAT THE INTERSECTING FORMS FIT INSIDE THE OUTER FORMS.

INTERSECTING WALLS

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

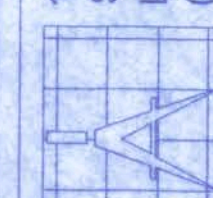


CUT BACK EPS AND EXPANDED STEEL 3" TO RECREATE HORIZONTAL CONCRETE BEAM AND PROVIDE CONCRETE COVER AROUND REBAR

TYPICAL SHALLOW LINTEL SECTION

MATTHEW AND NANCY
DOWLING RESIDENCE

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 78-4209



Freeman
Design Group
inc.

DATE: 11/06/07
DRAWN BY: J.T.D.
APPROVED BY: W.H.F.

REVISIONS

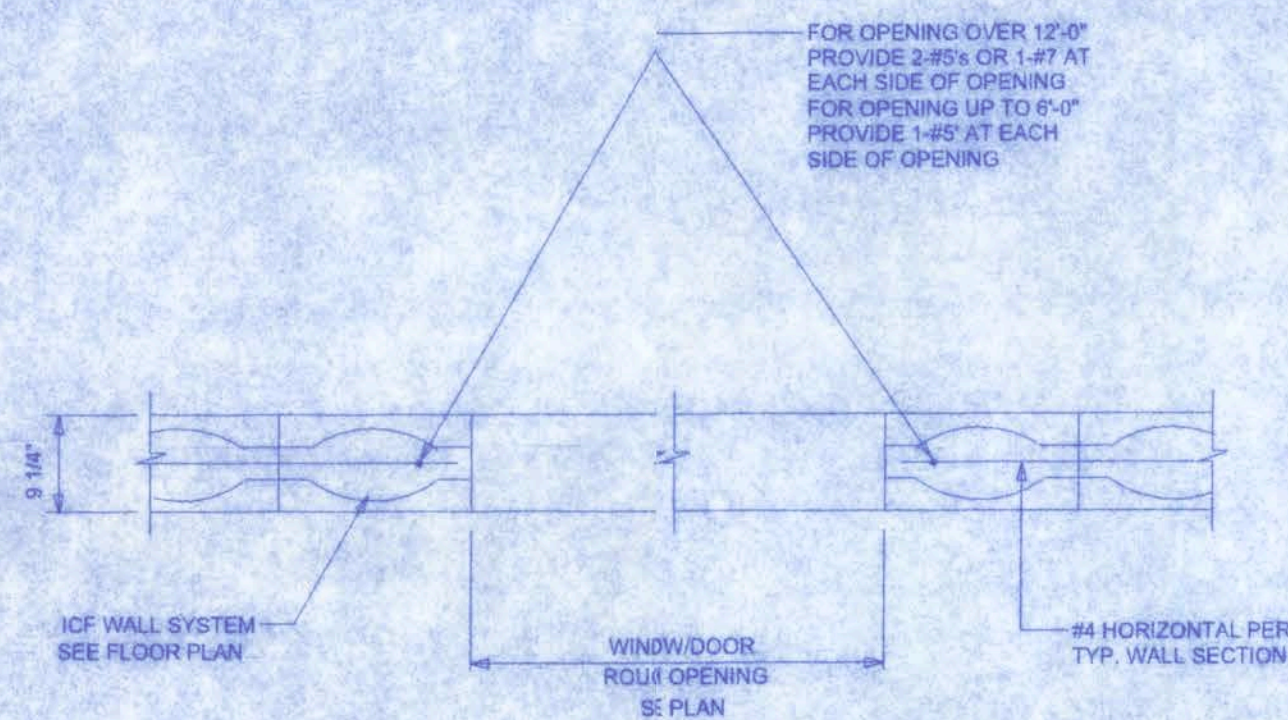
SHEET: A-8

OF: 9

PROJECT NO.: 04.R032

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NOTE:
SEE ICF WALL REINFORCING DETAILS FOR
ADDITIONAL REINFORCING REQUIREMENTS



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

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

REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 60.

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

REINFORCEMENT MUST BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS
NOT LESS THAN 8-BAR DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE
FIELD BENT.
EXCEPTION: WHEN BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH
A VERTICAL CELL BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE
PERMITTED TO BEND AT A SLOPE OF NOT MORE THAN 1 INCH OF
HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

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

NOTES:

MATERIALS:
MATERIALS USED TO PRODUCE CONCRETE & ADMIXTURES FOR
CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ACI 318.

AGGREGATES SHALL CONFORM TO ASTM C33 OR ASTM C330.

REINFORCING TO BE WELDED SHALL BE SHOWN ON THE DRAWINGS
AND WELDING PROCEDURE TO BE USED SHALL BE SPECIFIED.

REINFORCING SHALL CONFORM TO THE APPLICABLE ASTM STANDARDS
LISTED IN ACI 318.

ADMIXTURES TO BE USED IN CONCRETE SHALL BE SUBJECT TO PRIOR
APPROVAL BY THE ENGINEER.

TESTS OF MATERIALS AND CONCRETE SHALL BE MADE IN
ACCORDANCE WITH ASTM STANDARDS LISTED IN ACI 318.

INSULATED CONCRETE FORMS:
FORMS SHALL BE SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF CONCRETE.

NO CONSTRUCTION LOADS SHALL BE SUPPORTED ON, NOR ANY SHORING
REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION.

CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN
STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO
PREVENT ALUMINUM/CONCRETE REACTION OR ELECTROLYTIC ACTION
BETWEEN ALUMINUM AND STEEL.

CONDUITS AND PIPES EMBEDDED WITHIN THE WALL SHALL SATISFY
THE FOLLOWING:

1. THEY SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD
THE WALL THICKNESS.
2. THEY SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER.
3. THEY SHALL NOT IMPAIR SIGNIFICANTLY THE STRENGTH OF THE CONSTRUCTION.

NOTE:
APPLIANCES LOCATED IN PRIVATE GARAGES SHALL
BE INSTALLED WITH A MINIMUM CLEARANCE OF 6 FEET
ABOVE THE FLOOR EXCEPT WHERE THE APPLIANCE
IS PROTECTED FROM MOTOR VEHICLE IMPACT. EQUIPMENT
AND APPLIANCES HAVING AN IGNITION SOURCE SHALL BE
ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS
THAN 18" ABOVE THE FLOOR.

NOTE:
EACH VERTICAL DRYER VENT RISER SHALL BE PROVIDED WITH
A CLEANOUT. DRYER EXHAUSTS SHALL TERMINATE ON THE
OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A
BACKDRAFT DAMPER WITHOUT SCREENS.

NOTE:

FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555 AND SHALL
BEAR THE LABEL OF AN APPROVED TESTING AGENCY. FIRE DAMPERS SHALL BE
CLASSIFIED AND IDENTIFIED FOR USE IN EITHER:
1. STATIC SYSTEMS THAT AUTOMATICALLY SHUT DOWN IN THE EVENT OF FIRE
2. DYNAMIC SYSTEMS THAT OPERATE IN THE EVENT OF FIRE.

NOTE:

FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE
MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE FOLLOWING LOCATIONS:
1. DUCTS PENETRATING WALLS OR PARTITIONS HAVING A FIRE RESISTANCE
RATING OF 1 HOUR OR MORE.
2. DUCTS PENETRATING SHAFT WALLS HAVING A FIRE RESISTANCE RATING OF
1 HOUR OR MORE.

STEEL NOTES:

LIGHT GAGE FRAMING:

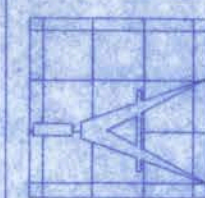
- LG-1 ALL LIGHT GAGE FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN
IRON AND STEEL INSTITUTE (AISI) SPECIFICATIONS FOR THE DESIGN OF COLD
FORMED STEEL STRUCTURAL MEMBERS.
- LG-2 ALL FRAMING MEMBERS SHALL BE FORMED FROM STEEL WITH A MINIMUM YIELD
STRENGTH OF 40 KSI.
- LG-3 ALL FRAMING SHALL BE GALVANIZED.
- LG-4 ALL CONNECTIONS SHALL BE SCREWED OR WELDED. USE A MINIMUM OF 3-#12
SCREWS AT CONNECTION. POWER DRIVEN FASTENERS ARE NOT ACCEPTABLE
FOR ANY STRUCTURAL APPLICATIONS UNLESS THEY COMPLETELY PENETRATE
THE STRUCTURAL STEEL.
- LG-5 ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

STRUCTURAL STEEL

- S1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING
AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO
ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORT TO A/E.
- S2 STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATIONS
FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL
STEEL BUILDINGS", LATEST EDITION.
- S3 MATERIAL
BEAMS & CHANNELS ASTM A572, GRADE 50
STEEL TUBING ASTM A500, GRADE B
PLATES ASTM A36
BOLTS ASTM A325
ANCHOR BOLTS ASTM A36 THREADED ROD - 6" MIN. EMBEDMENT WITH 2" HOOK
EXPANSION ANCHORS RAMSET/REDHEAD TRUBOLT OR APPROVED EQUIVALENT
NON-SHRINK GROUT 5000 PSI
- S4 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER
PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT
ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR
INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE
STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL
ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
- S5 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE
STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION: OF
THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL
BE E70XX-LOW HYDROGEN FOR SHIELD AND METAL ARC WELDING.
- S6 PROVIDE NUT & WASHER FOR ALL BOLTS AND ANCHOR BOLTS
- S7 ALL WELDED CONNECTIONS SHALL BE 1/4" FILLET ALL AROUND, UNO.
ALL BOLTED CONNECTIONS SHALL BE 1/2" DIA. A325 BOLTS, UNO.

MATTHEW AND NANCY
DOWLING RESIDENCE

181 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 758-4209



Freeman
Design Group Inc.

CERTIFICATE OF AUTHORIZATION # 00028701

DATE 11/06/07	DRAWN BY J.T.D.
	APPROVED BY W.H.F.
REVISIONS	
SHEET OF	A-9 9
PROJECT NO. 04.R032	