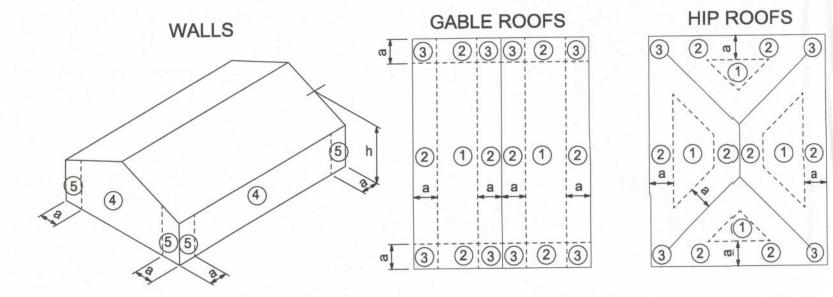
ALL WIND LOADS ARE IN ACCORDAN 1609, FLORIDA BUILDING CODE, 2010	CE WITH SECTION , WITH REVISIONS		
FLOO	OR AND ROOF LIVE LOADS		
UNINHABITABLE ATTICS:	20 PS	SF	
HABITABLE ATTICS, BEDROOM:	30 PS	SF	
ALL OTHER ROOMS:	40 PS	SF	
GARAGE:	40 PS	SF	
ROOFS:	20 PSF UN	IIFORM	
	WIND DESIGN DATA		
ULTIMATE WIND SPEED:	120 1	MPH	
NOMINAL (BASIC) WIND SPEED:	93 M	PH	
RISK CATEGORY:	II	II	
WIND EXPOSURE:	В		
ENCLOSURE CLASSIFICATION:	ENC	ENCLOSED	
INTERNAL PRESSURE COEFFICIENT	0.18 +/-		
COM	PONENTS AND CLADDING		
ROOFING ZONE 1:	16.0 PSF MAX.	-16.0 PSF MIN.	
ROOFING ZONE 2:	16.0 PSF MAX.	-24.9 PSF MIN.	
ROOFING ZONE 3:	16.0 PSF MAX.	-36.7 PSF MIN.	
ROOFING AT ZONE 2 OVERHANGS:	-29.1 PSF MIN.		
ROOFING AT ZONE 3 OVERHANGS:	-48.9 PSF MIN.		
STUCCO, C	CLADDING, DOORS AND WINDO	OWS	
ZONE 4:	16.0 PSF MAX.	-16.9 PSF MIN.	
ZONE 5:	16.0 PSF MAX.	-20.9 PSF MIN.	
9' WIDE O/H DR.:	16.0 PSF MAX.	-16.0 PSF MIN.	
16' WIDE O/H DR.:	16.0 PSF MAX.	-16.0 PSF MIN.	



a: 10% of least horizontal dim. or 0.4h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 ft.

h: mean roof height, in feet. COMPONENTS AND CLADDING

# STRUCTURAL DESIGN CRITERIA

FLORIDA BUILDING CODE, 2010 EDITION WITH SUPPLEMENTS CODES:

BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-05) SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-05) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-05)

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2001 EDITION APA PLYWOOD DESIGN SPECIFICATION

LIVE LOADS:

20 PSF (REDUCIBLE) 40 PSF

2500 PSI

ASTM A185

ASTM A615-40 40,,000 PSI

ASTM A615-40 40,,000 PSI

REVISIONS

DATE BY

DESCRIPTION

RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED 40 PSF

40 PSF 20 PSF

LIGHT PARTITIONS (DEAD LOAD), U.N.O.

WIND LOADS BASED ON FBC, SECTION 1609 WIND LOADS: WIND VELOCITY: 120 M.P.H., USE FACTOR: 1.0 (F.B.C.)

ALL REINFORCING BARS

ALL STIRRUPS AND TIES

ALL CONCRETE UNLESS OTHERWISE INDICATED CONCRETE PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY

3000 PSI STRENGTH (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS) @ 28 DAYS

WELDED WIRE FABRIC SHALL CONFORM TO REINFORCING:

ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI CONCRETE

MORTAR TYPE "S" 1800 PSI MASONRY CONCRETE GROUT 3000 PSI UNITS:

CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION

ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O. STRUCTURAL SHOP AND FIELD WELDS: E70XX ELECTRODES

STEEL: ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

WOOD FRAMING: BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. NO. 2 SOUTHERN YELLOW PINE (19% M.C.) ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, or OSB

FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24) WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB

VERSA LAM BEAM Fb = 2900 PSI (2.0E) WOOD COLS. PARALLAM 2.0E U.N.O.

**WOOD ROOF** TRUSSES:

SOIL BEARING

VALUE:

DATE BY

TOP CHORD LIVE AND DEAD LOAD: BOTTOM CHORD DEAD LOAD:

SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS. DESIGN FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL

DEAD LOAD.

**DESIGN LOADS:** 

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 1,500 PSF SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENT(S IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO

10 PSF

40 PSF

FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN.

DESCRIPTION

Crews Englineering Services, LLC

CERTIFICATE OF AUTHORIZATION NO. 28022

> P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085

9-16-2013

Brett A. Crews, P.E. 65592

APPROVED BY

DRAWN BY:

BC

TM

**WALKER ADDITION** 

2013-035

**COVER SHEET** 

SE WOODHAVEN ST WOODHAVEN ST SE FONTANA GLN

PROJECT LOCATION



# **GENERAL NOTES:**

- 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 WORK-MANSHIP 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, CONTACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
- 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.

# **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 ARITHMATIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

# **CHANGES TO PLAN SETS:**

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES 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.



# **INDEX OF SHEETS**

SHEET DESCRIPTION

> **COVER SHEET** FLOOR LAYOUT A-2

**ELEVATIONS AND SECTIONS** 

A-3 A-4 FOUNDATION PLAN

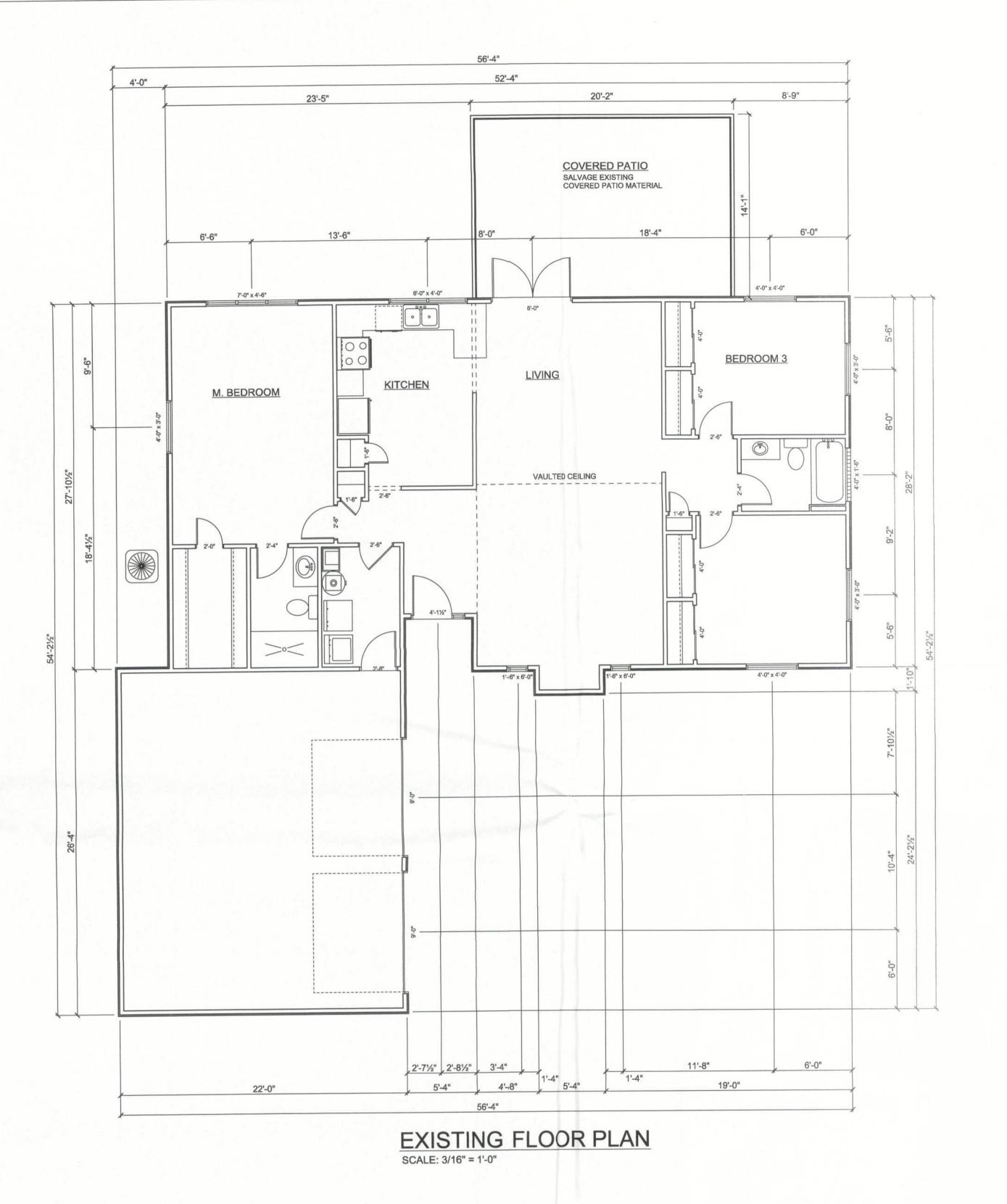
**ROOF PLAN** 

A-5 **ELECTRICAL PLAN** 

A-6 SHEARWALL DETAILS

CES PROJECT NO.

SHEET:



# CONSTRUCTION DOCUMENTS:

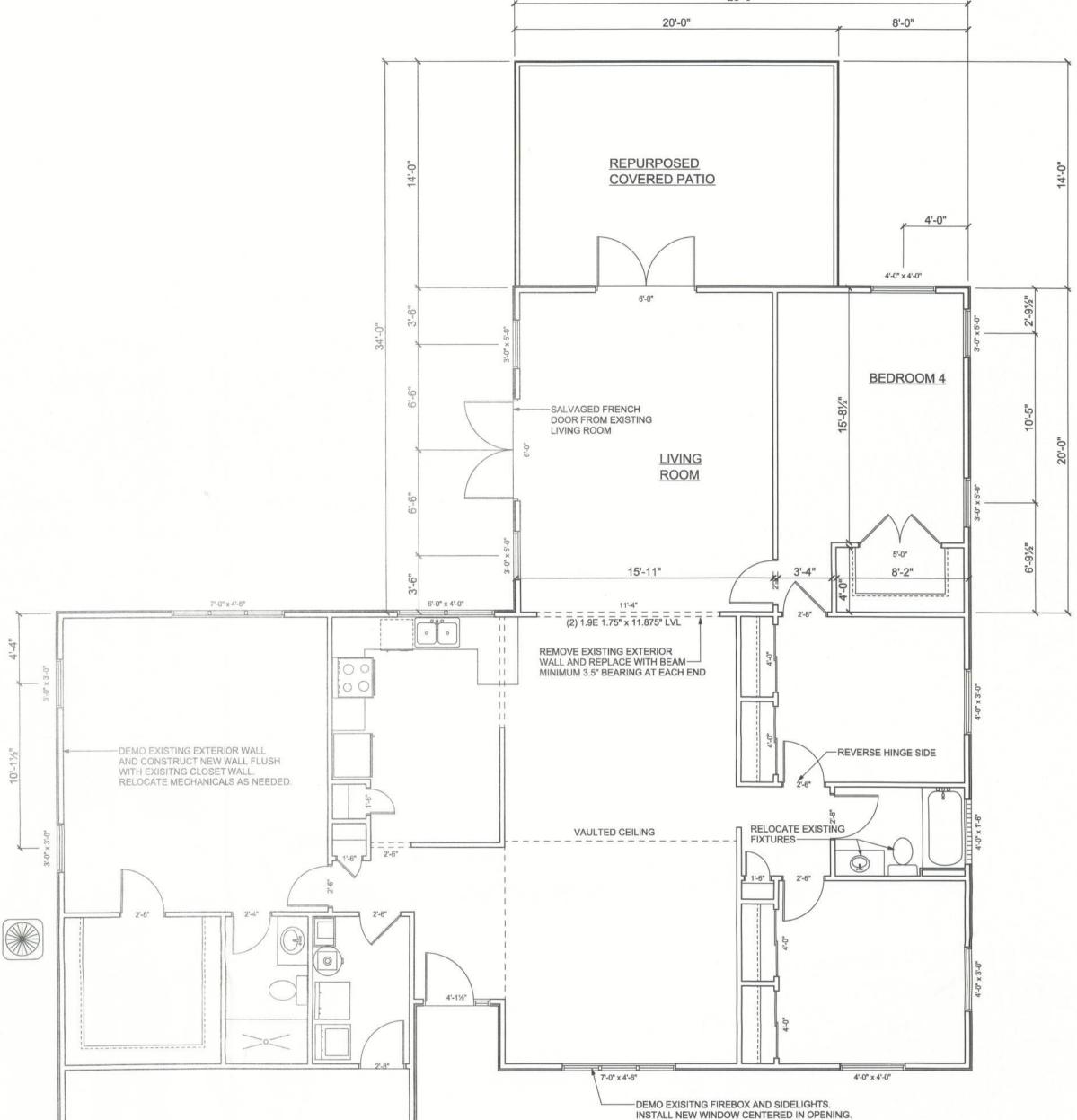
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PROPOSED FLOOR PLAN
SCALE: 3/16" = 1'-0"

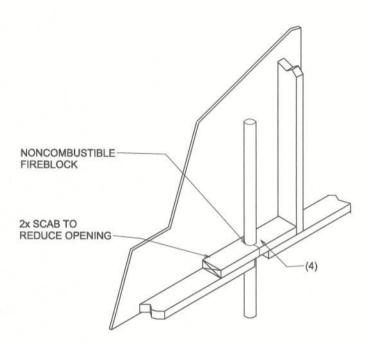
**AREA SUMMARY HEATED ADDITION 576 SF** PORCH ADDITION 277 SF TOTAL ADDITION 853 SF

# FIREBLOCKING NOTES:

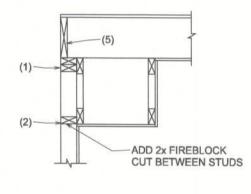
FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROPANEL MULTIFLEX SEALANT

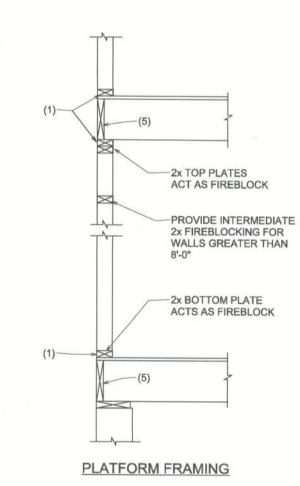
5. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

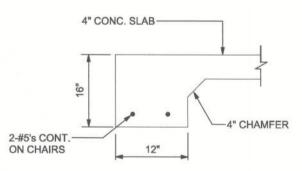


### **PENETRATIONS**



# SOFFIT/DROPPED CLG.

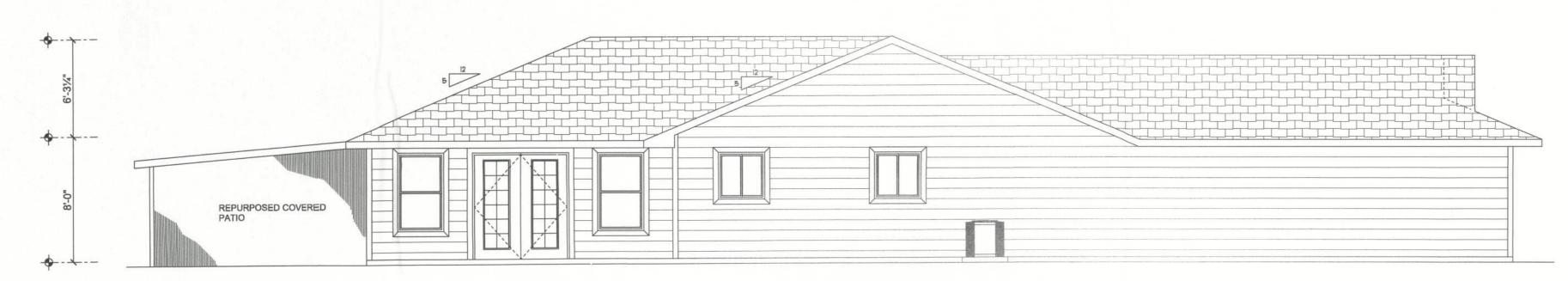




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DATE	BY	DESCRIPTION	DATE BY	DESCRIPTION	CES	NO. 28022	16.11	TM	WALKER ADDITION	2013-035
					Crews Engilneering Services, LLC	P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085	9-16-2013 Brett A. Crews, P.E. 65592	APPROVED BY:	FLOOR LAYOUT	SHEET: A-2



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



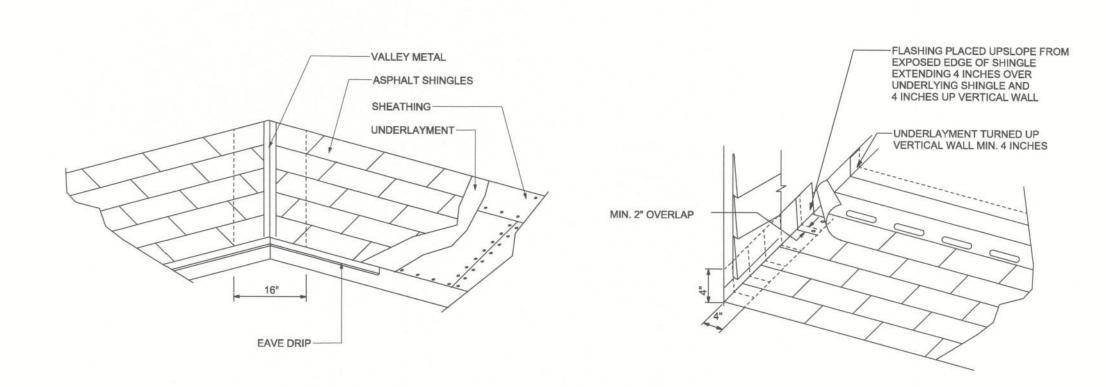
# PROPOSED LEFT ELEVATION

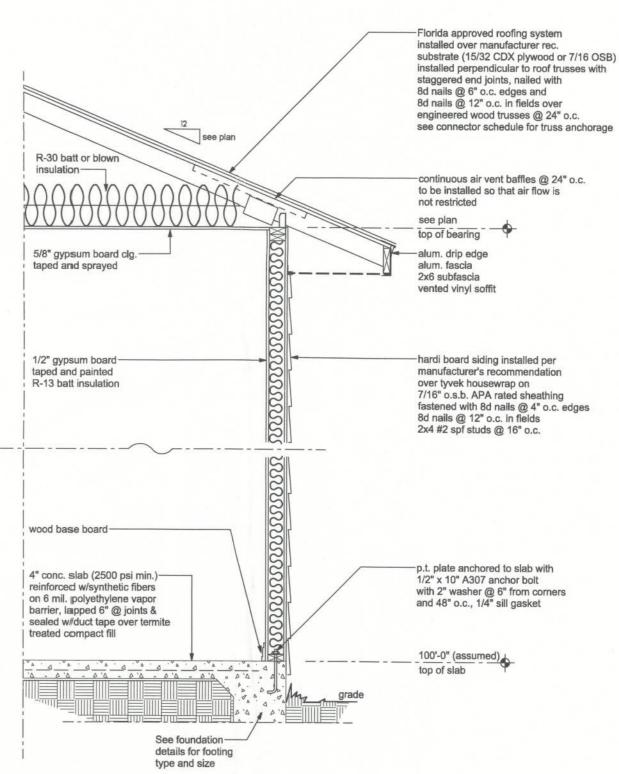


# PROPOSED REAR ELEVATION SCALE: 3/16" = 1'-0"



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





TYPICAL WALL SECTION

# **UPLIFT CONNECTORS**

 UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLAST SERVING FOR THE TRUSS ENCINE FOR THE PLAST SERVING FOR THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS.

# FIELD REPAIR NOTES

1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSM16 TWIST STRAP W/
(4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK
AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR
LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE
SUBSTITUTED ON A CASE BY CASE BASIS. 2. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUB-STITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. X 6" DEEP UNITEX "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS ( OR 1/2" X 6" RAWL STUD EXPANSION ANCHORS. )

3. REGARDING MISSED REBAR IN VERTICAL FILLED CELLS: DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDDEMENT EPOXY ( SIMPSON "EPOXY TIE SET", OR HILTI " 2 PART"
EMBEDDMENT EPOXY ), MIXED PER MANUFACTURER'S
INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM
DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM

4. HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.

5. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT.
IN CONC. FILLED CELL EACH SIDE OF THE JOINT ( BAR DOES NOT HAVE TO BE CONT. TO FOOTING )

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CERTIFICATE OF AUTHORIZATION NO. 28022

> P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085

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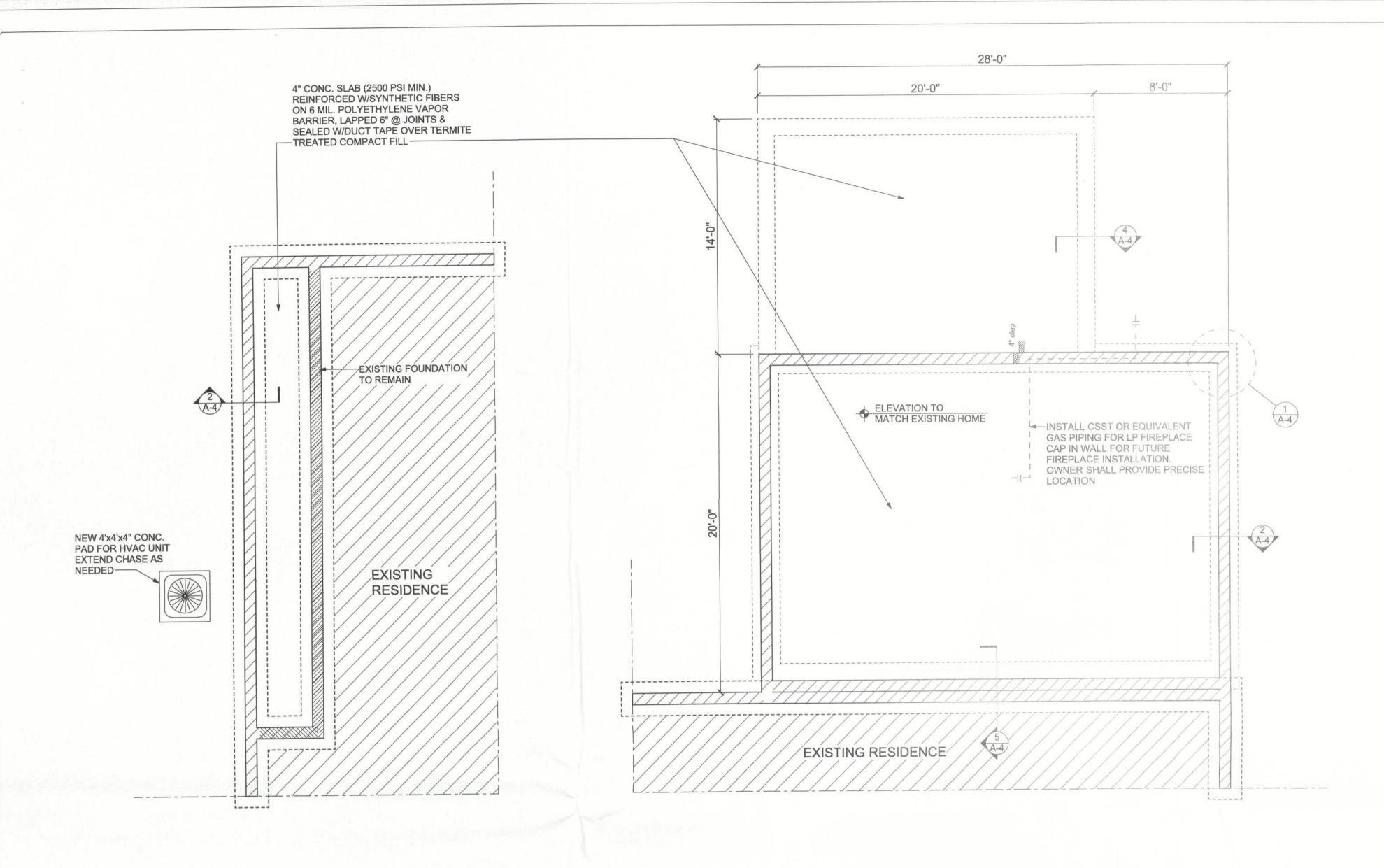
**WALKER ADDITION** 

CES PROJECT NO.: 2013-035

Brett A. Crews, P.E. 65592

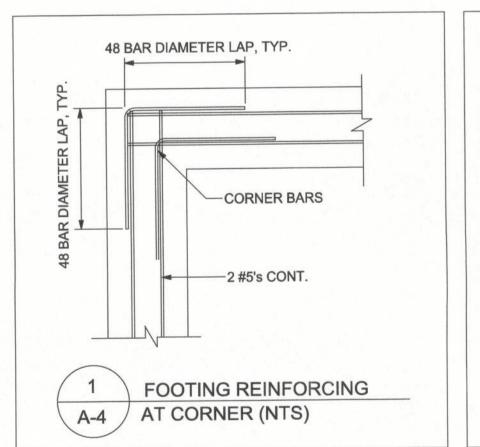
**ELEVATIONS AND SECTIONS** 

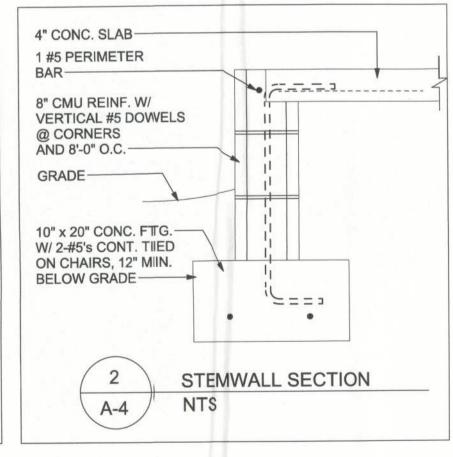
SHEET: A-3

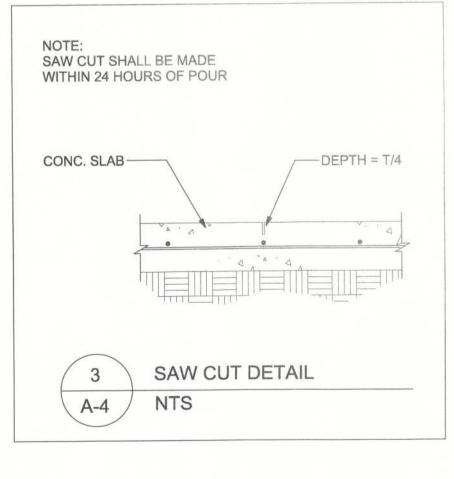


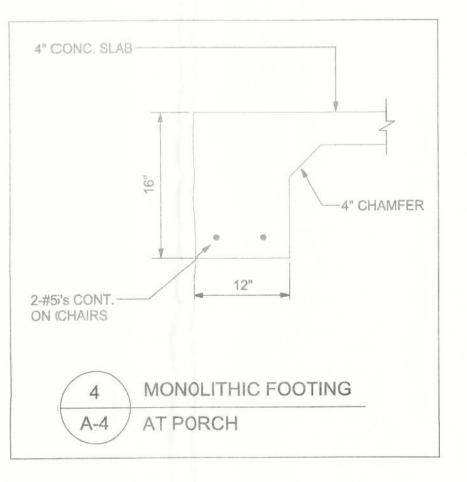
# SIDE ADDITION SCALE: 1/4" = 1'-0"

# REAR ADDITION SCALE: 1/4" = 1'-0"









# **FOUNDATION NOTES**

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

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

COVER OVER REINFORCING STEEL FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFROCING BARS

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

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

3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

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.

# **CONCRETE SLABS ON GRADE:**

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

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

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

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

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

6. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND ALL FORMS AND KEYWAYS.

# **TERMITE PROTECTION NOTES:**

# SOIL CHEMICAL BARRIER METHOD:

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

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

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

4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6".

EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8"

THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6

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

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

7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3

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

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

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

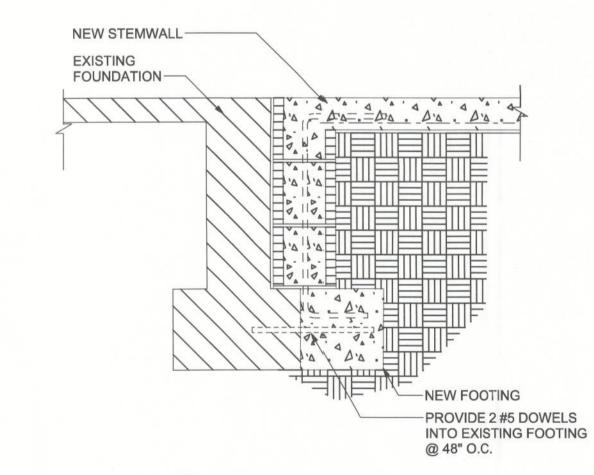
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6

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

13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY # LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7

14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3

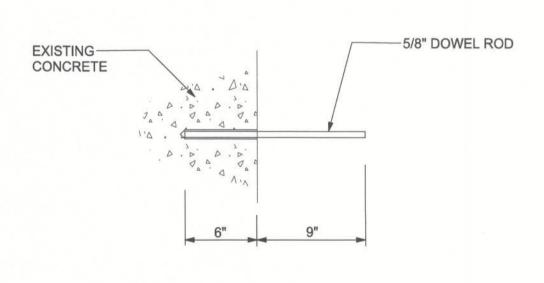
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4



5 STEMWALL SECTION NEW TO EXISTING

NOTE:

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



DOWEL DETAIL

NTS

DATE BY DESCRIPTION DATE BY DESCRIPTION

Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION NO. 28022

> P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085

Sweet (2 9-16-2013

Brett A. Crews, P.E. 65592

TM
APPROVED BY

DRAWN BY:

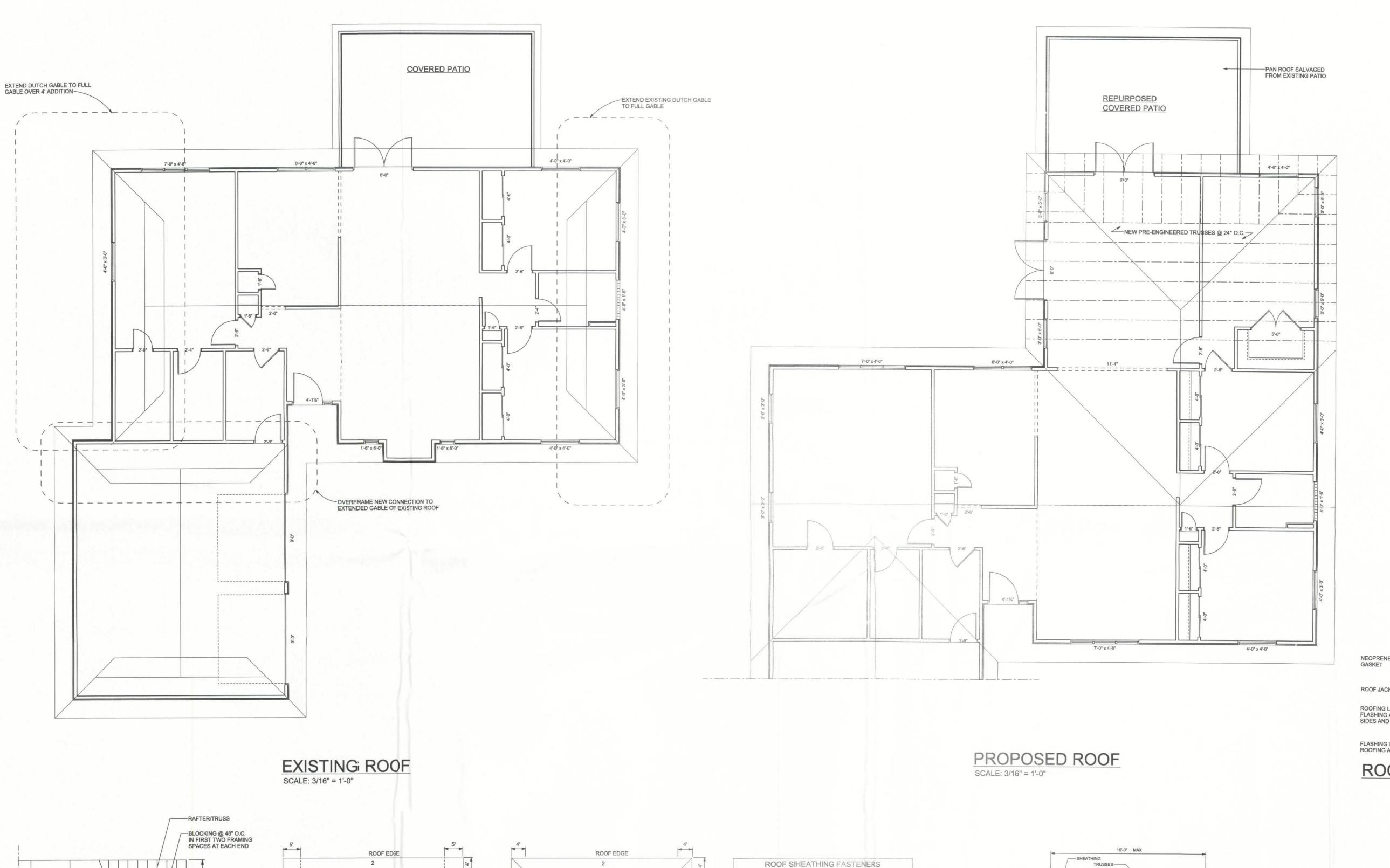
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**WALKER ADDITION** 

2013-035

SHEET:

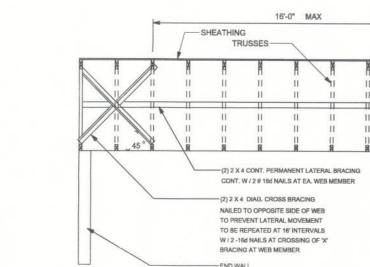
FOUNDATION PLAN



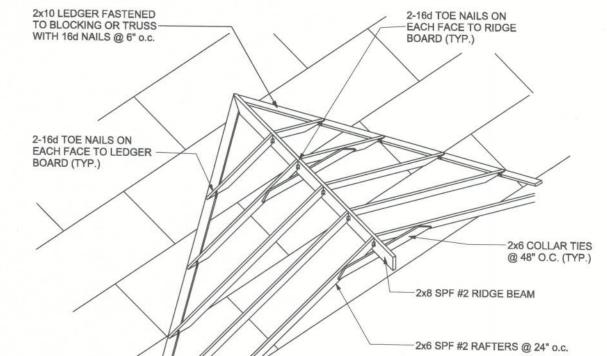
ROOF EDGE

**ROOF SHEATHING** 

NAILING ZONES (HIP)



ROOF SHEATHING NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE FASTENING TYPICAL PERMANENT TRUSS BRACING DIAGRAM



FULL DEPTH BLOCKING IN FIRST 2 FRAMING MEMBERS-

BOTTOM CHORD CONTINUOUS LATERAL BRACING 2x4x8' - 0" #2 SYP FASTENED TO BOTTOM CHORD WITH 2-16D NAILS @ 6'-0" O.C. ALONG GABLE END—

STRUCTURAL SHEATHING-

FULL DEPTH BLOCKING-2-16D NAILS @ EACH END

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

END WALL BRACING FOR CEILING DIAPHRAGM

ROOF INTERSECTION CONNECTION DETAIL

ROOF JACK-ROOFING LAPS-FLASHING AT SIDES AND TOP FLASHING LAPS ROOFING AT BOTTOM-

**ROOF JACKS AND VENTS** 

-CONT. RIDGE VENT AS PER "GAF"
"COBRA RIGID VENT II"
W/ SHINGLE COVERING -SHINGLE ROOFING AS PER SCHEDULE ON PLANS - SEE ROOFING NOTES -1/2" CDX PLYWOOD OR 7/16" OSB SHEATHING AS PER NAILING SCHEDULE ON PLANS FRAMING AS PER ROOF FRAMING **RIDGE VENT DETAIL** 

-2x4 #2 SYP. OUTLOOKERS

—2X4 DIAGONAL BRACING FASTENED WITH 2-16D NAILS AT EACH END SPACED AT 6'-0" O.C. ALONG GABLE END

-STRUCTURAL GABLE SHEATHING

SIMPSON H3 @ EACH —OUTLOOKER

@ 24" O.C.

-2x BLOCKING

-DROP DOWN **GABLE TRUSS** 

-SIMPSON LSTA30

NOTE: VENTING SHALL BE PROVIDED SUCH THAT TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED

CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE					
CONNECTOR	TRUSS	TOP PLATE	UPLIFT PROVIDED	MANUFACTURER	
H2.5	5-8d NAILS	5-8d NAILS	365 LBS	SIMPSON	
H10	8-8d NAILS	8-8d NAILS	850 LBS	SIMPSON	
MTS12	7-10d NAILS	7-10d NAILS	1,000 LBS	SIMPSON	
H16	2-10d NAILS	10-10d NAILS	1,300 LBS	SIMPSON	
(2)HTS20	10-10d NAILS	10-10d NAILS	2 x 1,450 = 2,900 LBS	SIMPSON	

REVISIONS DATE BY **DESCRIPTION** DESCRIPTION DATE BY

AND ENDWALL ROOF BRACING NAILING ZONES (GABLE)

**ROOF SHEATHING** 

EDGE

- SHEATHING -

**BUILDING LENGTH** 

**ROOF SHEATHING LAYOUT** 



8D GALV. RING SHANK NAILS

6" O.C. EDGE 12" O.C. FIELD

6" O.C. EDGE 6" O.C. FIELD

4" O.C. @ GABLES 6" O.C. EDGE 6" O.C. FIELD

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(2) 2 X 4 CONT. LATERAL IBRACING

(2) 2 X 4 IDIAG

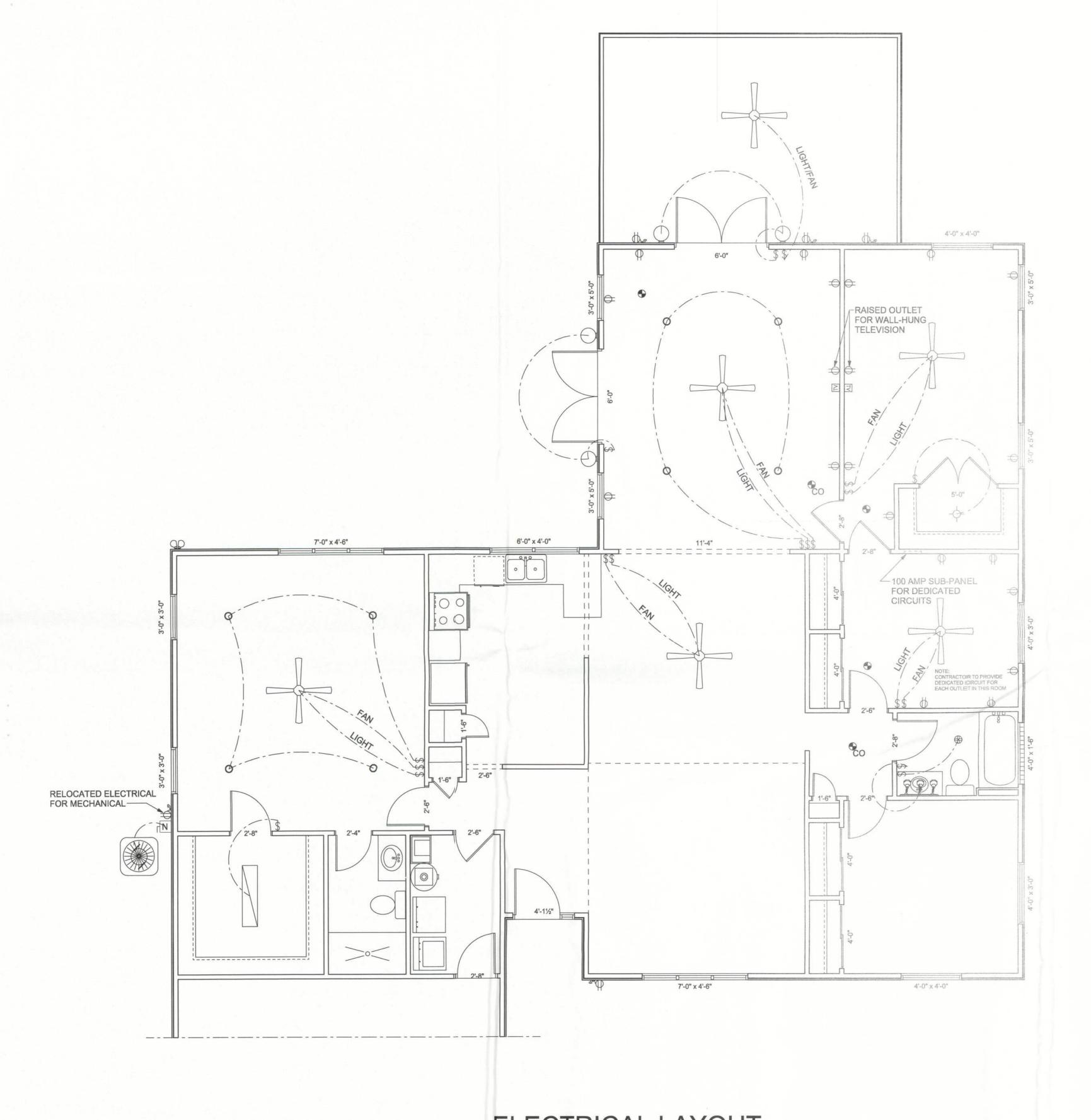
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APPROVED BY:	D.0

SHEATHING

-TRUSSES

CES PROJECT NO.: KER ADDITION 2013-035 **ROOF PLAN** 



ELECTRICAL	COUNT	SYMBOL
ceiling fan	6	
can light 6inch	8	0
double spotlight	1	QD
exterior light 1	4	Q
fluorescent fixture	1	
electrical panel	1	11
motor	1	9
non-fused disconnect	1	ГИ
50 cfm exhaust fan	1	₩
cable tv outlet	2	TV
carbon monoxide detector	2	co
light	1	
outlet	20	Ф
outlet weatherproof	5	₩ <sub>P</sub>
smoke detector	3	•
switch	19	\$
vanity wall mount	1	ବ୍କକ୍

# **WIRING NOTES:**

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A. CONDUCTORS: Copper, in accordance with ASTM Standards, size reference AWG. Conductors No. 10 and smaller size solid, No. 8 and Larger, Stranded. Insulation of conductor thermoplastic, type THHN (min. size No. 12) any wire installed outside, underground, in slabs or exposed to moisture shall have THWN insulation.

B. RACEWAYS: RIGID STEEL CONDUIT, full weight pipe galvanized, threaded, and minimum 1/2 inch except as noted or required for wiring. ELECTRICAL METALLIC TUBING (EMT), thin wall pipe, galvanized, threadless, compression fittings, and minim 1/2" size except as noted or required for wiring. FLEXIBLE STEEL CONDUIT: continuous single strip, galvanized, and minimum 1/2" size except as noted or required for wiring. PVC CONDUIT, heavy duty type, size as indicated. Separate raceways shall be used for each voltage system.

C: DISCONNECT SWITCHES: General Duty, horsepower rated for motor loads 250 volt rating, fused or non-fused as noted; number of poles as indicated. Enclosure NEMA 1 for indoor use and NEMA 3R for weatherproof applications. Switch to be Square "D" or equal.

D: CIRCUIT BREAKERS: molded case, thermal-magnetic, quick make, quick break, bolt-on type with manually operated insulated trip-free handle. Multi-pole types with internal common trip bar. Terminals suitable for copper or aluminum conductors. Interrupting capacity minimum 10,000 RMS symmetrical amperes circuit circuit breakers to be Square "D", Siemens or equal, type as required. E: PANELBOARDS: Voltage, phasing, and ampere ratings as indicated, circuit breaker type as indicated, buss bars of hard drawn copper, minimum 98% conductivity, galvanized steel back box, door and trim. All corners lapped and welded, hardware chrome plated with flush lock and catch. Hinges semi-concealed, 5 knuckles steel with nonferrous pins. 180 degree openings. Minimum gutter space 5-3/4" sides, top and bottom. Increase size where required by code. Directory holder complete with clear plastic transparent cover indicating typwritten list of feeder cables, conduit sizes, circuit number, outlets of equipment supplied, and their location. Circuit breaker type panelboards to be Square "D" type NQOD or I-Line, or equal. A plastic label shall be located on exterior of panelboard identifying the system voltage, phase, and current rating. F: WIRING DEVICES: All devices their product of the same manufacturer. Wall switches and receptacles to be 20 amp, 125 volt, unless noted otherwise. Color to be selected by Architect. G: DEVICE PLATES: provide for all outlets where devices are installed. Provide engraved marking for special outlets (where noted). Provide blank plates for empty or future outlet boxes. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

# GROUNDING SYSTEM:

a. EQUIPMENT: Ground non-current carrying metal parts of panel board, receways and all lighting fixtures. All conduit shall have equipment grounding conductors.

# INSTALLATION:

A. Secure all supports to building structure as specified under raceways. Support horizontal runs of metallic conduit not more than 10 feet apart Run exposed raceways parallel with or at right angles

B. Pass raceways over water, steam or other piping when pull boxes are not required. no raceway within 3 inches of steam or hot water pipes, or appliances. expect crossing where the raceway shall be at least 2 inches from pipe cover.

C. Cut conduit ends square, ream smooth. Paint male threads of field threaded conduit with Graphite based pip compound. Draw up tight with conduit couplings. D. Leave wire sufficiently long to permit making final connections. In raceway over 50 feet in which wiring is not installed. furnish pull wire.

E. Verify locations of outlets and switches. F. Support panel, junction and pull boxes independently to building structure with no weight bearing on conduits.

G. Connect conduit to motor conduit terminal bases with flexible conduit; minimum 18 inches in length and 50% slack. Do not terminate in or fasten raceways to motor foundation. H. This contractor shall provide a temporary electrical distribution system as required; 120/208 volt, 1 phase, 100 amp, for new construction. All temporary work shall be installed in a neat and

 Contractor to remove and salvage all abandoned electrical equipment. J. This contractor shall warrant all labor and materials for one year from date of final

written acceptance.

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

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

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

CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

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

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DRAWN BY:

BC

TM APPROVED BY: ELECTRICAL PLAN

**WALKER ADDITION** 

CES PROJECT NO .: 2013-035

1. One ill-thread rod at each corner.

2. One all-thread rod at each end of shearwalls.

One ill-thread rod at each end of opening headers greater than 3'-0"
 Chec sub-sheathing to top plate connection for horizontal transfer capability.

5. If necessary, add all-thread rods to girders individually to exclude the from average uplift plf. 6. Check sole plate to slab connection, additional anchors may be required for lateral and shear load transfer.

ALLOWABLE VALUES	
Connection Type	Allowable Value
Foundation / S.Y.P. Top Plate	3840 lbs.
Foundation / Spruce-Pine-Fir Top Plate	3840 lbs.
Lintel or Bond Beam / S.Y.P. Top Plate	3840 lbs.
Lintel or Bond Beam / Spruce-Pine-Fir Top Plate	3840 lbs.

# Placement at slab level:

# Corners

When presetting the all-thread rod at a building corner, the rod should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

# Header ends

When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members. Top Connections

### Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3X3 washer shall be applied to the top plates and tightened securely.

# Intermediate Coupler Connections

When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end. then threading the coupler back over the rod joint so each rod is halfway into the coupler.

In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

# Sole plate to slab connection:

The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

### System Tightening:

On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.

# **SHEARWALL NOTES:**

- 1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
- THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
- 3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING MEMBERS
- OR ALONG BLOCKING. 4. NAIL SPACING SHALL BE 6" O.C. EDGES AND

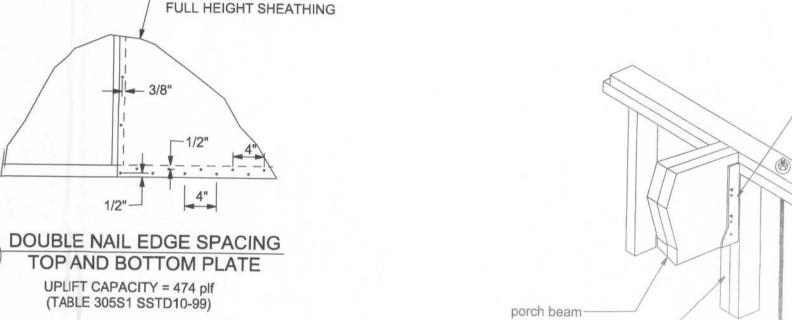
ALL WALL SHEATHING SHALL BE WINDSTORM

1 1/8" FULL HEIGHT SHEATHING-SEE DETAIL 1 FOR NAILING

- 12" O.C. IN THE FIELD.
- 5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0" WALLS - (2'-3").

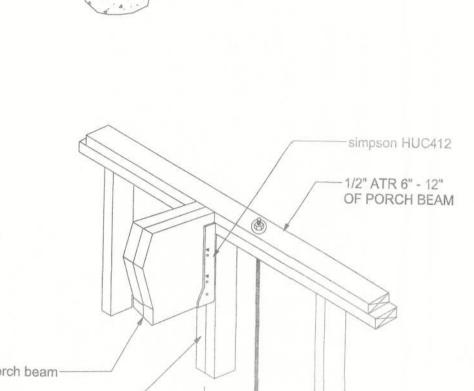
OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3

- WINDSTORM 7/16" O.S.B.



double 2x or solid

# ALL THREAD @ PORCH BEAM



NUT & WASHER - 1/2" nut must be zinc

-ROD - 1/2" all-thread rod must be zinc

plated and conform to

ASTM A36 and A307

standards

ASTM A36 and A307

standards, 3"X3"

washer must be

zinc plated

OUPLER (optional) - 1/2" x 1-1/2" zinc plated,

and A307 standards

-NUT & WASHER - 1/2" nut must be zinc plated

Simpson ET22 - drill 5/8" hole in foundation

half hole depth.

must conform to ASTM A36

and conform to ASTM A36

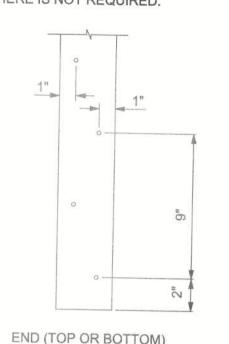
and A307 standards. 2"X2"

washer must be zinc plated

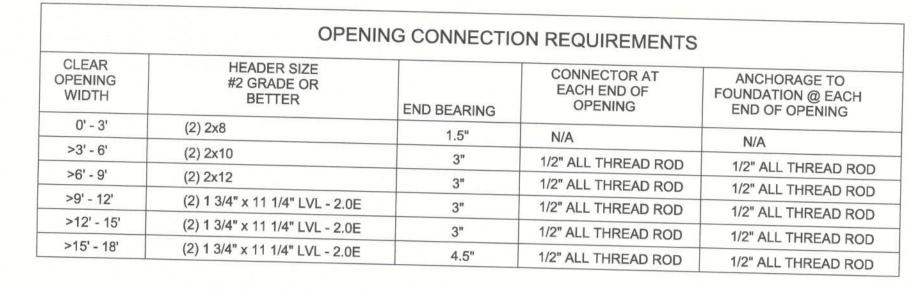
to depth OF 5" @ a mininium

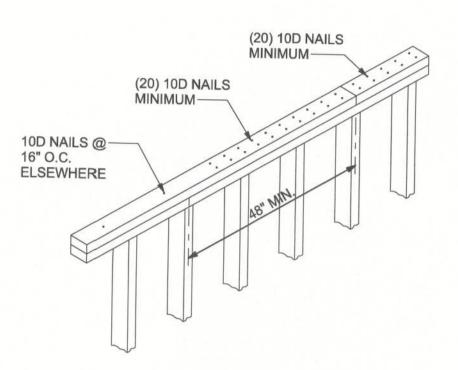
of 1-3/4" from side and 5" from end of footing. Fill with epoxy

A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED. IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM. THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.

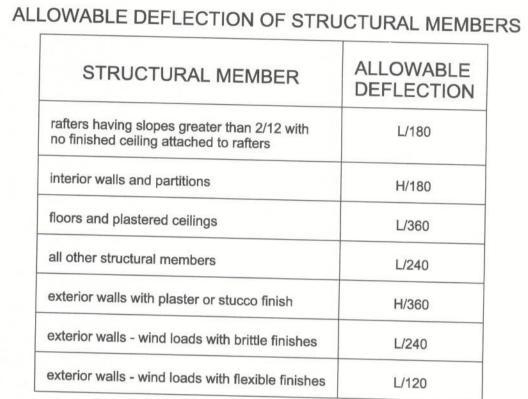


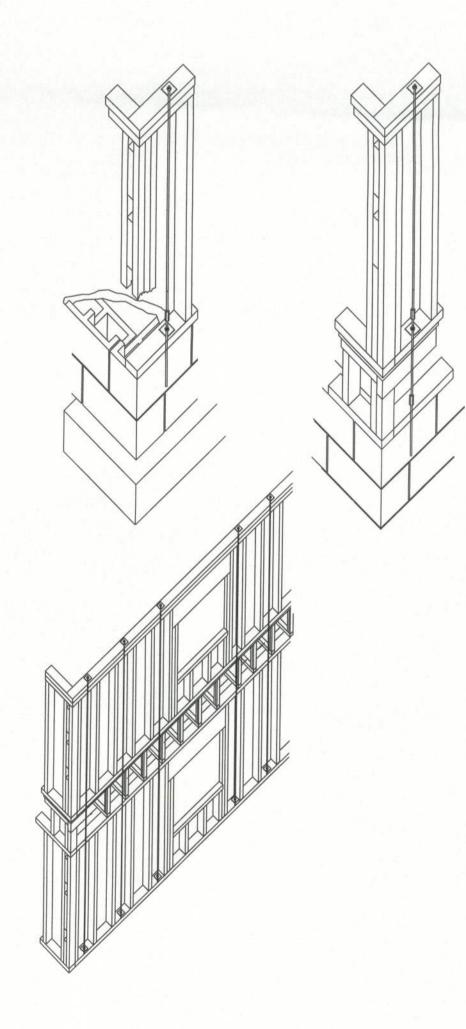
# GIRDER COLUMN DETAIL SCALE: 1/2" = 1'-0"

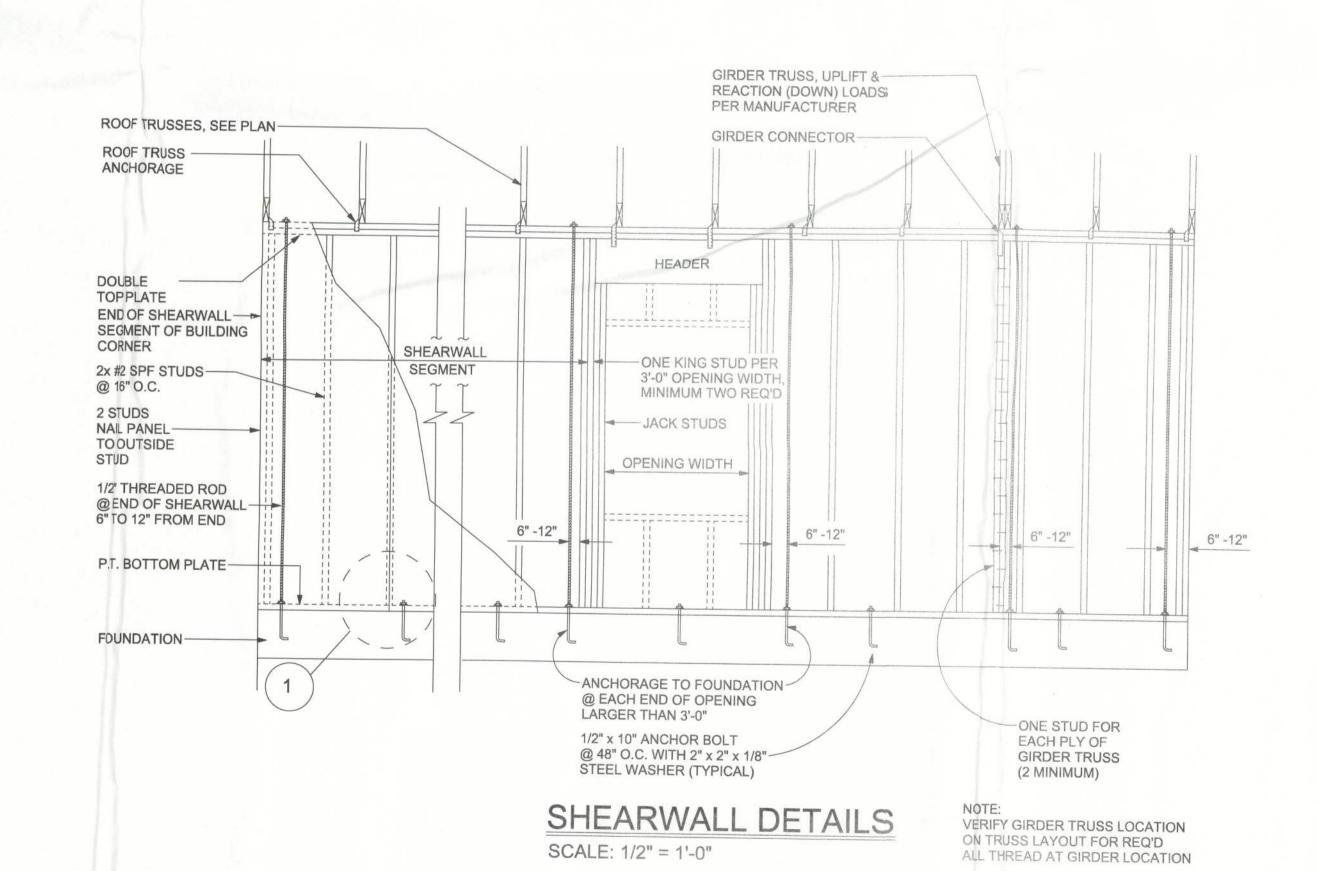


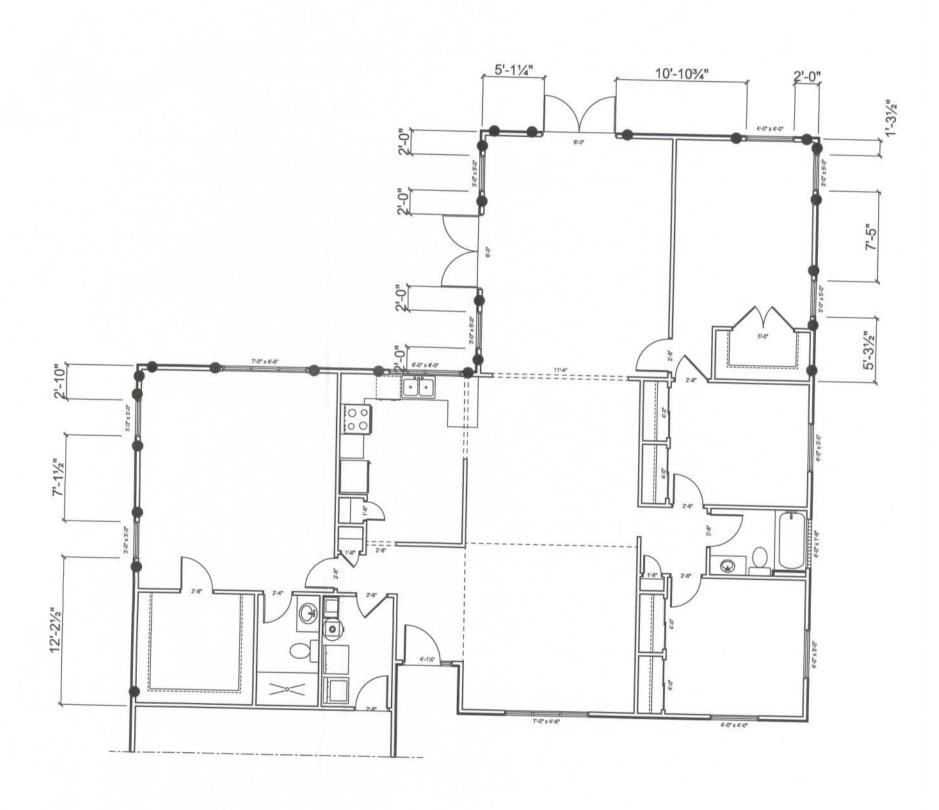


TOP PLATE SPLICE DETAILS









ALL THREAD DETAIL ALL THREAD LOCATION

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**WALKER ADDITION** 

CES PROJECT NO.: 2013-035

SHEARWALL DETAILS