

# TRUSS PLACEMENT PLAN

## HANGERS TO BE USED

| (Simpson) | or | (Usp)      |
|-----------|----|------------|
| Ⓐ HUS26   |    | Ⓐ HUS26    |
| Ⓑ HUS26-2 |    | Ⓑ THDH26-2 |
| Ⓒ HUS28-2 |    | Ⓒ THDH28-2 |
| Ⓓ HHUS46  |    | Ⓓ THD46    |

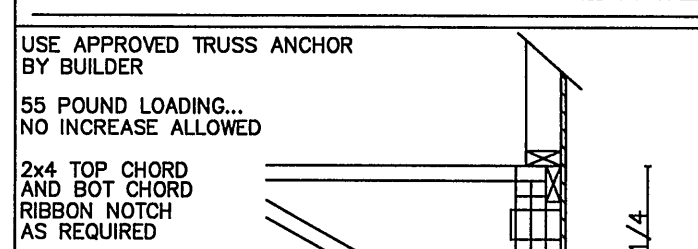
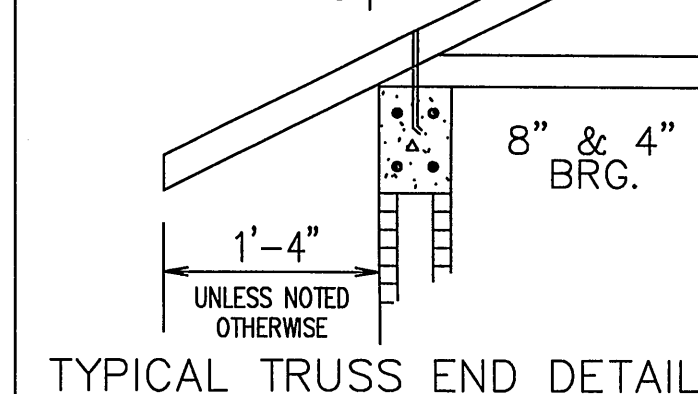
ALL WALLS SHOWN ON THIS LAYOUT ARE TO BE LOAD BEARING

|  |                       |
|--|-----------------------|
|  | 1st-floor<br>9'-4"    |
|  | interior brg<br>9'-4" |
|  | 2nd-floor<br>19'-4"   |

## TRUSS BEARING HEIGHT SCHEDULE

EXPOSURE : ENCLOSED  
LANAI : EXPOSED TO WIND  
ENTRY : EXPOSED TO WIND

APPROVED TRUSS ANCHOR BY BUILDER  
2x4 MINIMUM TOP AND BOTTOM CHORDS  
PLUMB OUT OVERHANG  
STANDARD HEEL HEIGHT  
45 POUND LOADING



## FLOOR TRUSS END DETAIL

USE APPROVED TRUSS ANCHOR BY BUILDER

| ROOF-LOADS         | FLOOR LOADS        |
|--------------------|--------------------|
| 20 T.C. LIVE       | 40 T.C. LIVE       |
| 15 T.C. DEAD       | 10 T.C. DEAD       |
| 00 B.C. LIVE/10 NC | 00 B.C. LIVE/10 NC |
| 10 B.C. DEAD       | 05 B.C. DEAD       |
| 1.25 DOL           | 1.00 DOL           |

ALL UPLIFTS ARE APPROXIMATE UNTIL FINAL ENGINEERING

| TRUSS ID.      | REACTION | UPLIFT(-) | HOLDDOWN |
|----------------|----------|-----------|----------|
| (1) FG2 + FT2A | 4630     | ----      | ----     |
| (2) A6         | ----     | -1200     | ----     |
| (3)            |          |           |          |
| (4)            |          |           |          |
| (5)            |          |           |          |
| (6)            |          |           |          |
| (7)            |          |           |          |
| (8)            |          |           |          |
| (9)            |          |           |          |
| (10)           |          |           |          |
| (11)           |          |           |          |
| (12)           |          |           |          |
| (13)           |          |           |          |

## NOTE:

- YOUR SIGNATURE WILL ACKNOWLEDGE:
- 1) AUTHORIZATION FOR FABRICATION.
  - 2) VERIFICATION OF ALL DIMENSIONS, CONDITIONS, AND TRUSSES. TRUSSES WILL BE MADE IN STRICT ACCORDANCE WITH THIS PLACEMENT PLAN.
  - 3) RECEIPT AND USE OF "HIB-91 Summary Sheet COMMENTARY and RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES" (TPI).
  - 4) NO BACK CHARGES OR CRANE CHARGES OF ANY KIND WILL BE ACCEPTED UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY TRUSS PLANT MGMT.

SIGNED \_\_\_\_\_  
TITLE \_\_\_\_\_  
DATE \_\_\_\_\_

All spacing is 24" O.C. except as noted.  
All walls shown are bearing, except as noted.  
All valleys calculated with sheathing under.  
Number of girder plies to be determined by engineering.  
DO NOT CUT OR ALTER TRUSSES w/o AUTHORIZATION FROM THIS OFFICE.  
Labeling trusses is a service, not a requirement. Engineered drawings supersede labeling of trusses. It is the responsibility of the builder to utilize engineered drawings when erecting trusses.

**WARNING**  
ERECTOR BRACING IS NOT THE RESPONSIBILITY OF TRUSS DESIGNER, PLATE MANUFACTURER, NOR TRUSS FABRICATOR. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING ERECTOR BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TIPPING AND COLLAPSE DURING ERECTION, AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "HIB-91 Summary Sheet COMMENTARY and RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES" (TPI). TRUSSES ARE TO BE ERECTED AND FASTENED IN A STRAIGHT AND PLUMB POSITION WHERE NO SHAKING IS APPLIED DIRECTLY TO THE TOP CHORDS. THEY SHALL BE BRACED AS SPECIFIED ON THE TRUSS DESIGN.

TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE.

**NOTE:**  
TRUSS COMPANY SUPPLIES ONLY TRUSS TO TRUSS CONNECTIONS.  
TRUSS COMPANY WILL SUPPLY ALL TRUSS TO TRUSS HARDWARE CONNECTIONS FOR REACTIONS UNDER 5000 POUNDS. FOR ALL REACTIONS GREATER THAN 5000 POUNDS, OR SKEWED, NO HANGER IS SUPPLIED.

CONTRACTOR SHOULD CHECK ALL REACTIONS FOR PROPER CONNECTIONS.

ASCE7-10 WIND AND GRAVITY CRITERIA

Exposure Category : B Bldg Category : 2 Wind Design Velocity : 160 MPH  
Imp. Factor : 1.00 Wind Load Duration Factor : 1.33 Mean Roof Height : 22.0 ft  
Stephen W. Miller Street Eng #24385 2250 N. KINGS HIGHWAY FT. PIERCE, FL 34951 (772) 464-4160

**SOUTHERN TRUSS COMPANIES, INC.**  
2554 A or B  
2550 N. Kings Highway Fort Pierce, FL 34951

**DR HORTON (FT-MYERS)**

CUSTOMER: DR HORTON (FT-MYERS)

ADDRESS: 2554 A or B

SCALE: 1/4"=1'-0" DATE: 08/21/12 DRAWING NO: ST2554

Engineer of Record for the Structure  
Structural Systems of N. Ft. Inc.  
Derek Bergener, PE # 58552  
1634 SE 47th Street # 3  
Ft. Myers, FL 33904  
Date: 8/27/12  
Reviewed for conformance with the design intent  
of the structure and specified design criteria.  
☒ Accepted As Is ☐ Accepted As noted ☐ Revise and Resubmit

Trusses shown on this layout are a component part of the building and show truss location. Proper erection, temporary and permanent bracing design are the responsibility of the building designer or his engineer. Lateral bracing shown on the individual truss drawings must be placed during the erection procedure.

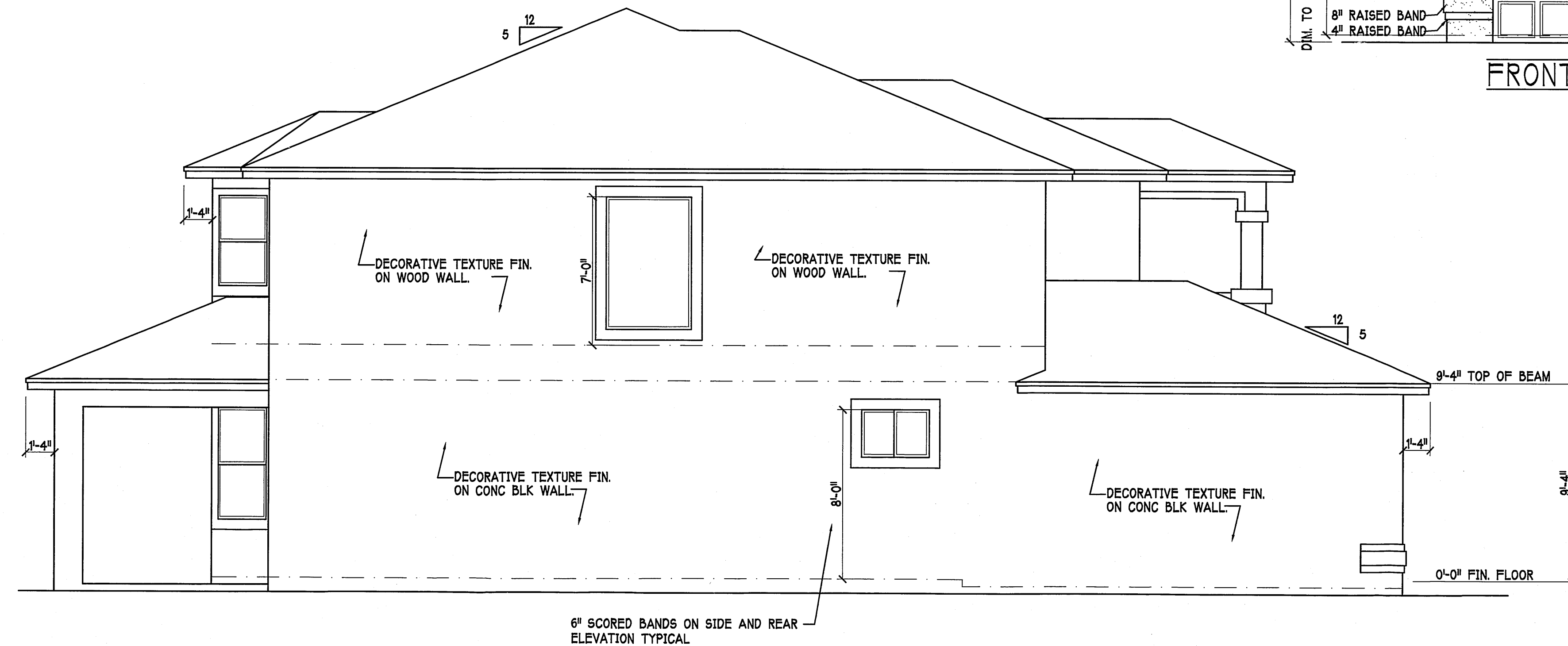
ROOF COVER: TILE / SHINGLE

JOB NO.: 2733

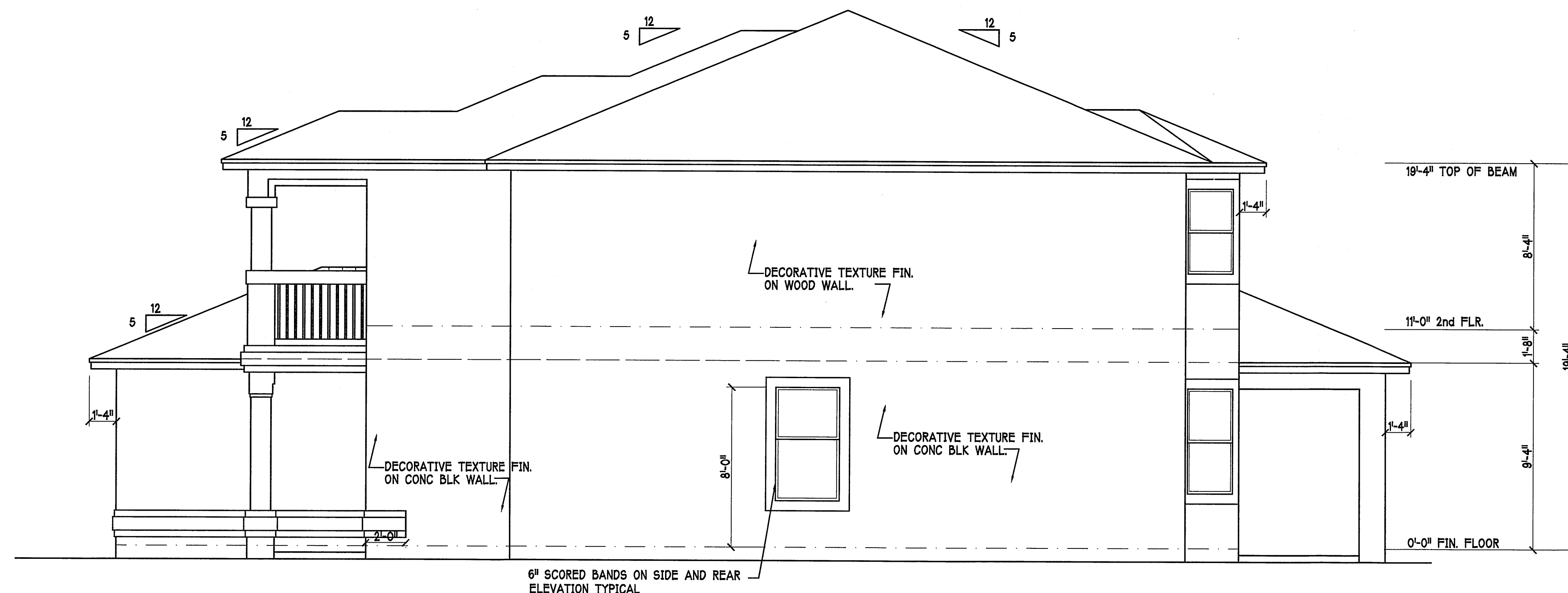
LOT: BLK:

ADDRESS: SUBDIVISION:

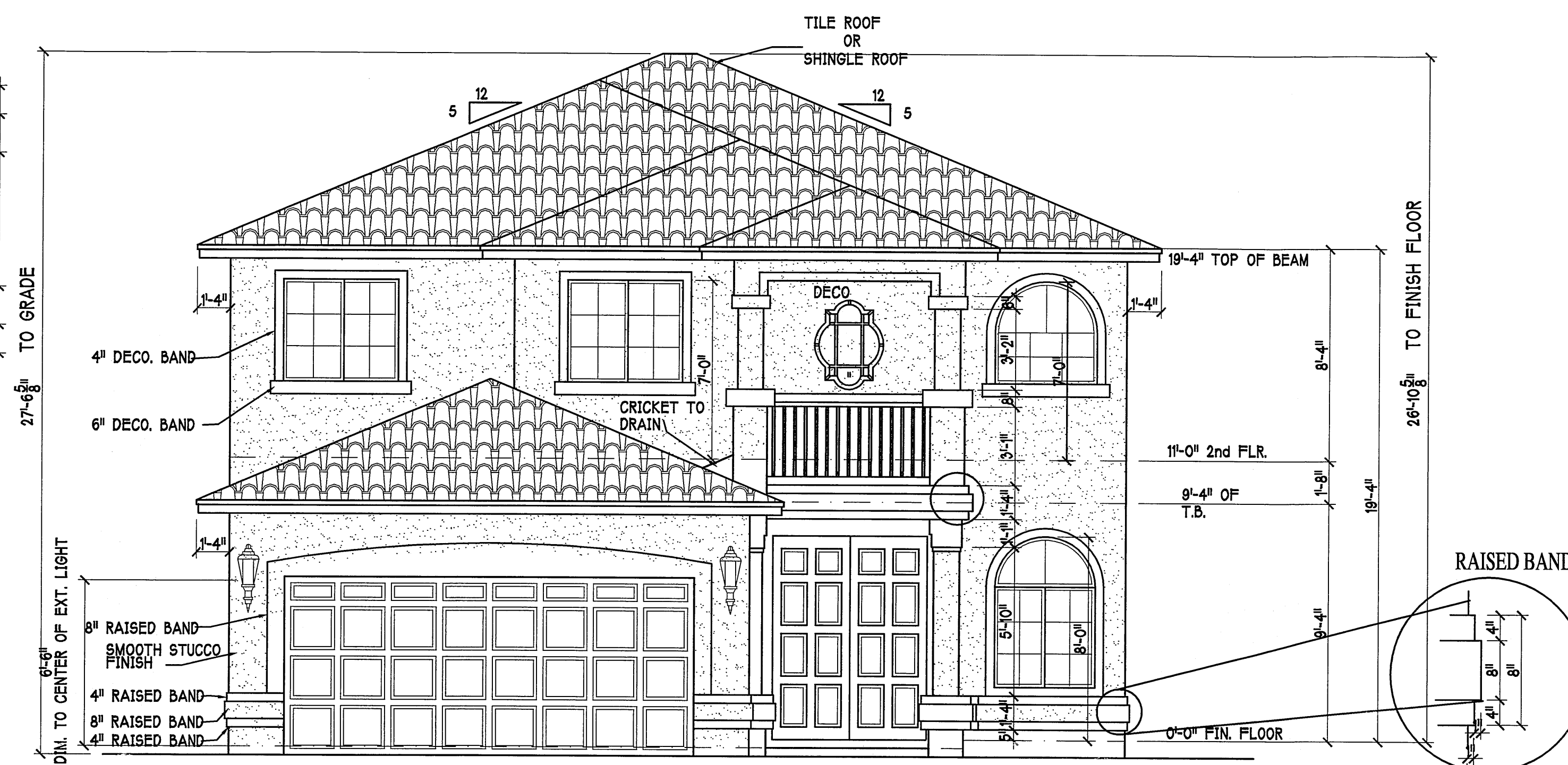
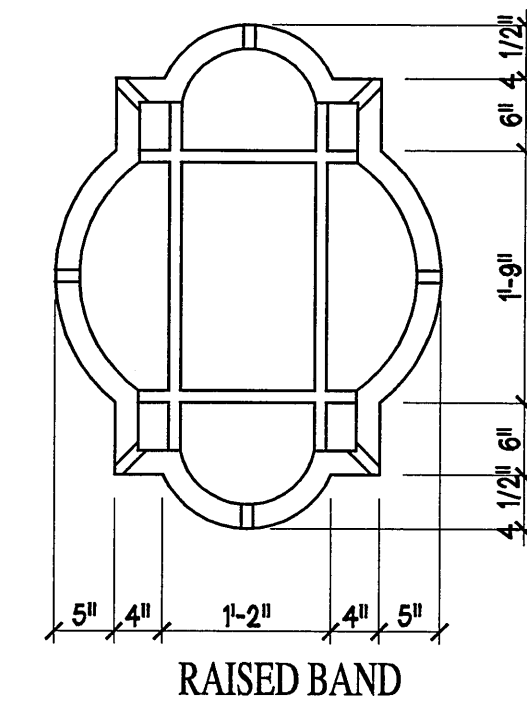
Garage Left



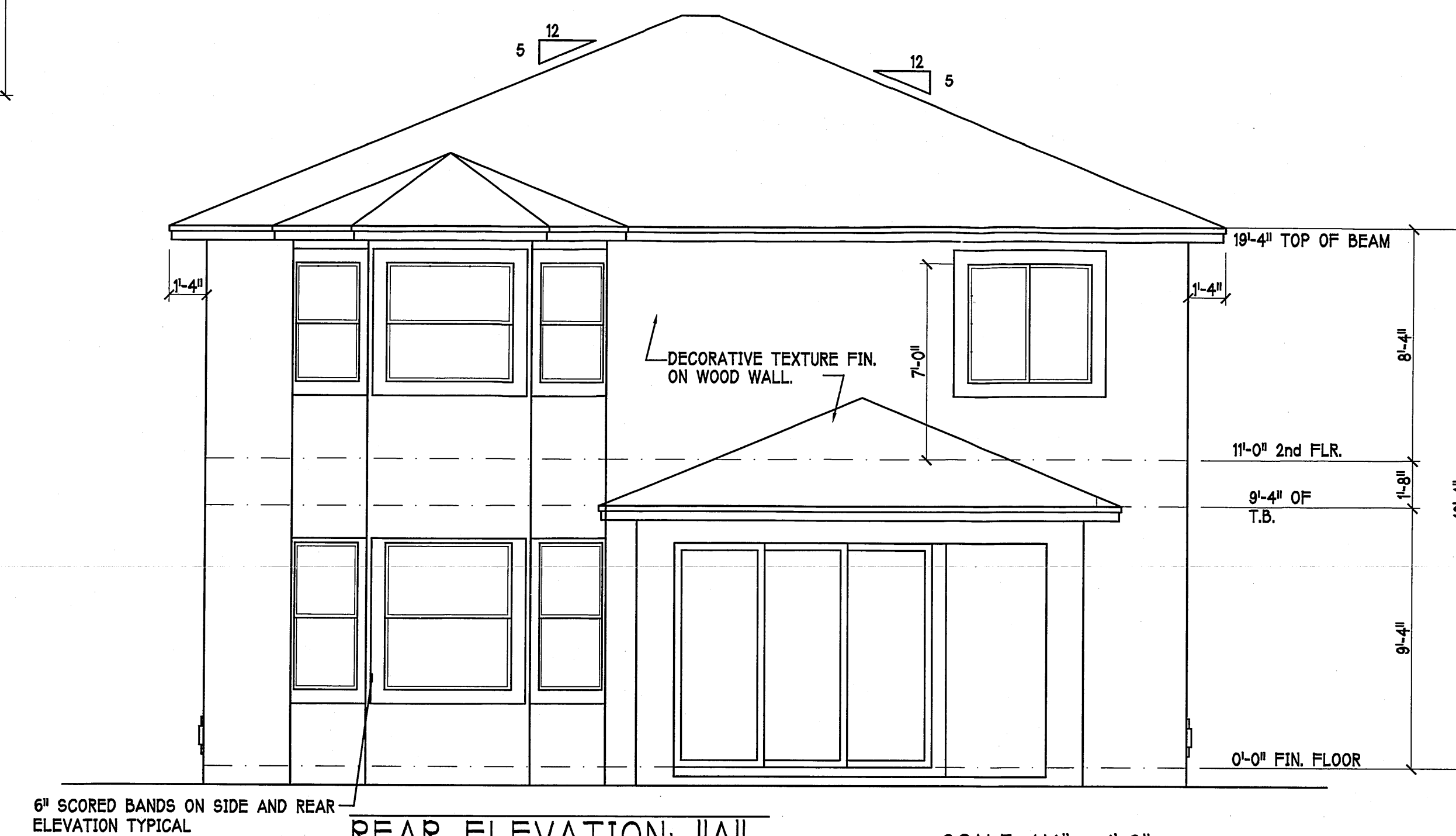
LEFT SIDE ELEVATION: "A" SCALE: 1/4" = 1'-0"



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



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



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

9-17-10 MASTER REVISIONS

DESIGN IN ACCORDANCE WITH  
THE FLORIDA BUILDING CODE 2010

**D.R. HORTON**  
America's Builder

Gulf Coast Drafting  
& Design  
Phone (239) 540-1822  
Fax (239) 540-7759

STRUCTURAL  
SYSTEMS  
OF NORTH FLORIDA  
1635 S.E. 47th ST. SUITE 103  
FORT MYERS, FL 33901  
(239) 549-4554  
CA# 8883

DEREK BRADEN P.E.  
AUG 27 2012  
FL PE #16852








|                |              |                             |        |
|----------------|--------------|-----------------------------|--------|
| MODEL:         | UNIT 2554 WD | LOT: 9                      | BLOCK: |
| RESIDENCE FOR: | SPEC         | SUBDIV: BUCKS RUN           |        |
|                |              | ADDRESS: 7851 BUCKS RUN DR. |        |
|                |              | G.C.D. JOB #: DR-2733       |        |

|             |              |
|-------------|--------------|
| DATE:       | 8-27-12      |
| DRAWN BY:   | D.B.         |
| CHECKED BY: | JWC          |
| REVISED:    |              |
| PLAN:       | ELEVATIONS   |
| SCALE:      | 1/4" = 1'-0" |
| SHEET#      | A1-A         |

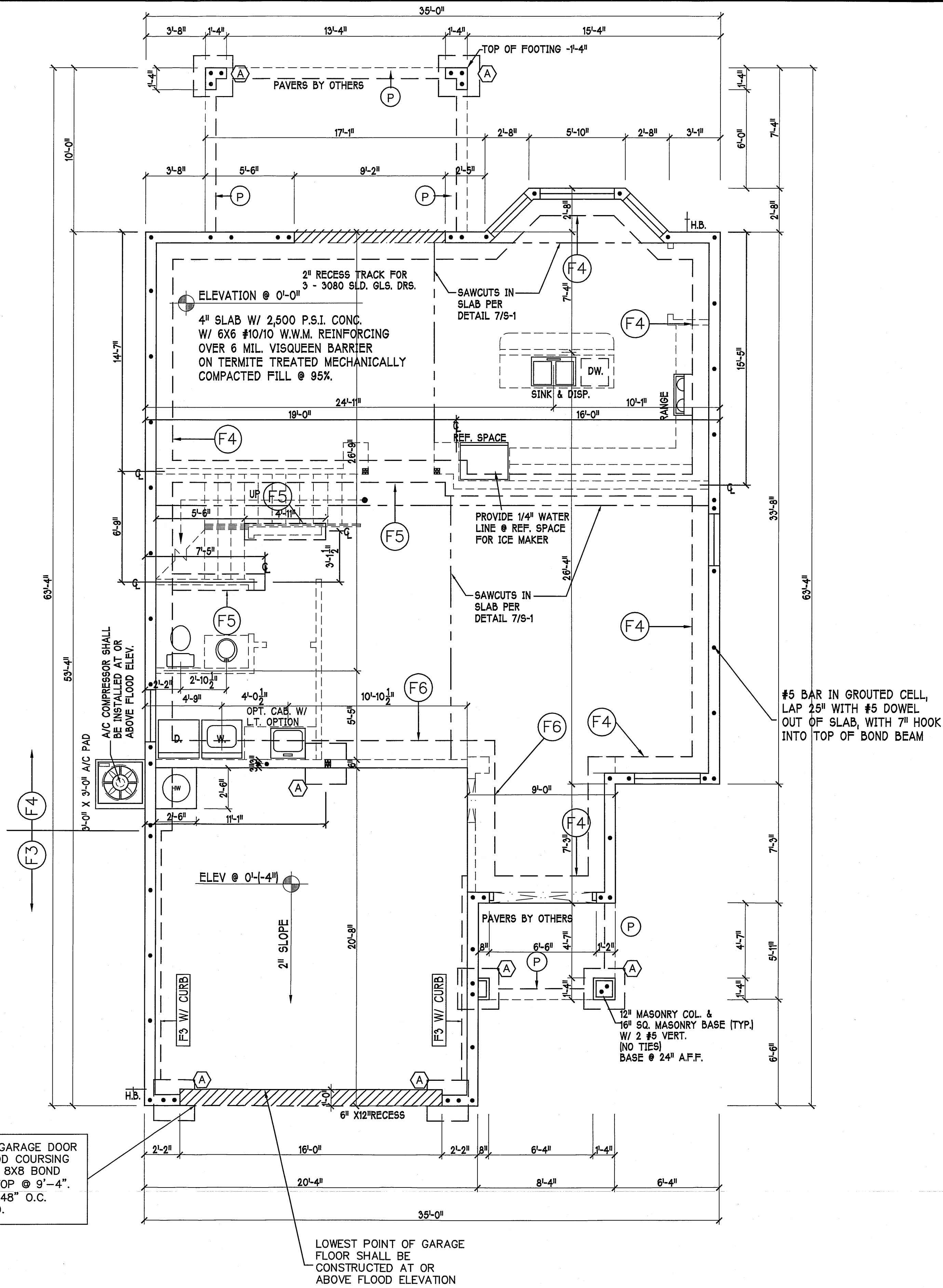


FOR STRUCTURAL DESIGN CRITERIA OF FOUNDATION, SEE SHEET S-1.  
PLAN NOTES:  
1) TOP OF GROUND FLOOR SLAB DATUM ELEVATION 0'-0".  
2) TOP OF EXTERIOR PAD FOOTING ELEVATIONS -1'-4".  
3) 'F#' DENOTES CONTINUOUS WALL FOOTING TYPE PER SCHEDULE THIS SHEET.  
4) 'A' DENOTES PAD FOOTING AT CONCENTRATED LOADS PER SCHEDULE THIS SHEET.  
5) 'TE' DENOTES THICKENED EDGE OF SLAB PER SCHEDULE THIS SHEET.  
6) PROVIDE #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.  
7) ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.  
8) FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.  
9) PROVIDE PRESSURE TREATED BUCKS AT WINDOWS / DOORS PER TABLE 2 ON A-6 AND DETAIL 13/S-1.

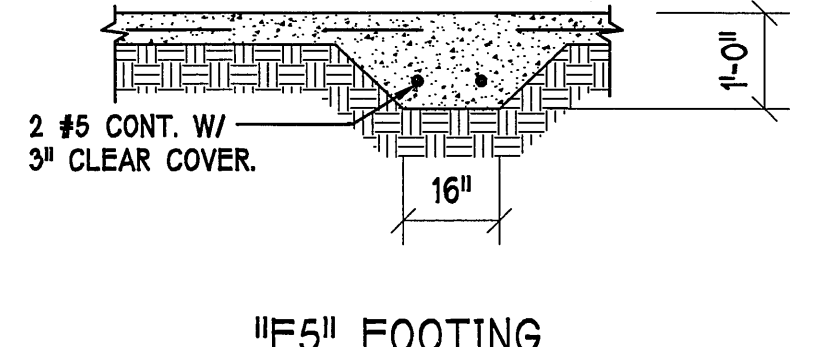
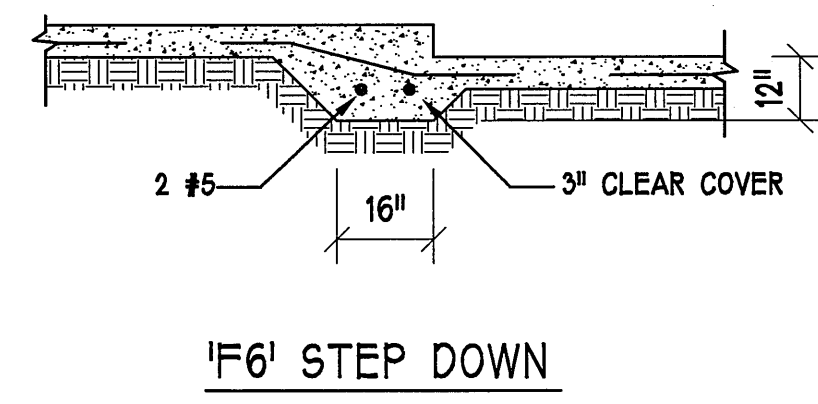
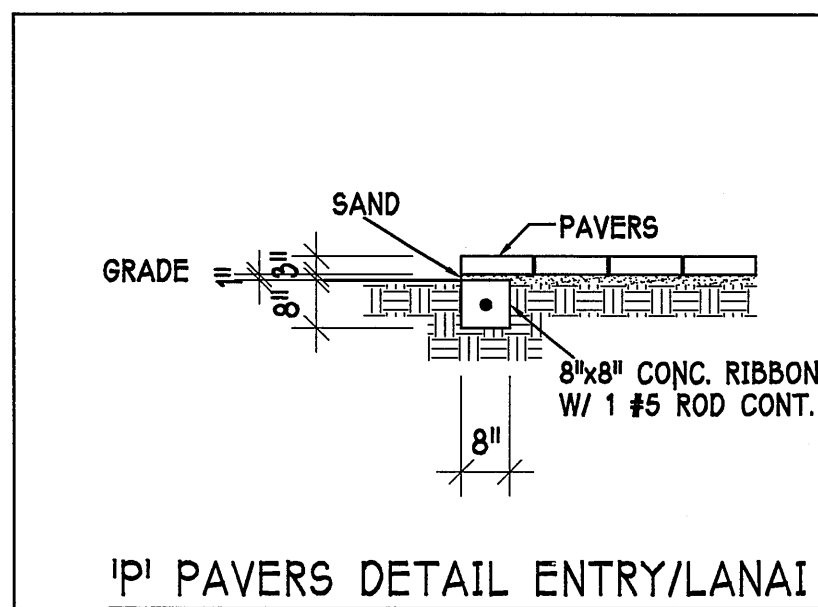
| PAD FOOTING SCHEDULE |      |        |       |       |               |           |         |
|----------------------|------|--------|-------|-------|---------------|-----------|---------|
| USDA                 | TYPE | LENGTH | WIDTH | DEPTH | BOTTOM REINF. |           | REMARKS |
|                      |      |        |       |       | LONG WAY      | SHORT WAY |         |
| X                    | (A)  | 2'-6"  | 2'-6" | 1'-0" | 3-#5          | 3-#5      | -       |
| X                    | (B)  | 3'-0"  | 3'-0" | 1'-0" | 4-#5          | 4-#5      | -       |
| X                    | (C)  | 3'-6"  | 3'-6" | 1'-0" | 4-#5          | 4-#5      | -       |
| X                    | (D)  | 4'-0"  | 4'-0" | 1'-2" | 5-#5          | 5-#5      | -       |
| X                    | (E)  | 5'-0"  | 5'-0" | 1'-2" | 6-#5          | 6-#5      | -       |

| WALL FOOTING SCHEDULE |      |        |       |        |                    |   |
|-----------------------|------|--------|-------|--------|--------------------|---|
| USE                   | TYPE | LENGTH | WIDTH | DEPTH  | BOTTOM REINFORCING | SHAPE   |
|                       | (F1) | CONT.  | 1'-4" | 0'-8"  | 2-#5               |  |
|                       | (F2) | CONT.  | 1'-8" | 0'-10" | 2-#5               |  |
|                       | (F3) | CONT.  | 1'-0" | 1'-8"  | 2-#5               |  |
| X                     | (F4) | CONT.  | 1'-4" | 1'-8"  | 2-#5               |  |
| X                     | (F5) | CONT.  | 1'-4" | 1'-0"  | 2-#5               |  |
| X                     | (F6) | CONT.  | 1'-4" | 1'-0"  | 2-#5               |  |
| X                     | (TE) | CONT.  | 0'-8" | 0'-8"  | 1-#5               |  |

NOTE: REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. ADD CORNER BAR 25"x25" AT EACH LONGITUDINAL BAR. PER 6/S-1.



FOUNDATION PLAN: "A" SCALE: 1/4"=1'-0"



NOTE:  
#5 BARS IN GROUTED CELLS  
TO BE SPACED 4'-0" O.C. MAX.

DESIGN IN ACCORDANCE WITH  
THE FLORIDA BUILDING CODE 2010

**D.R. HOUGHTON**  
America's Builder

Gulf Coast Drafting  
& Design  
Phone (239) 540-1822  
Fax (239) 540-7759

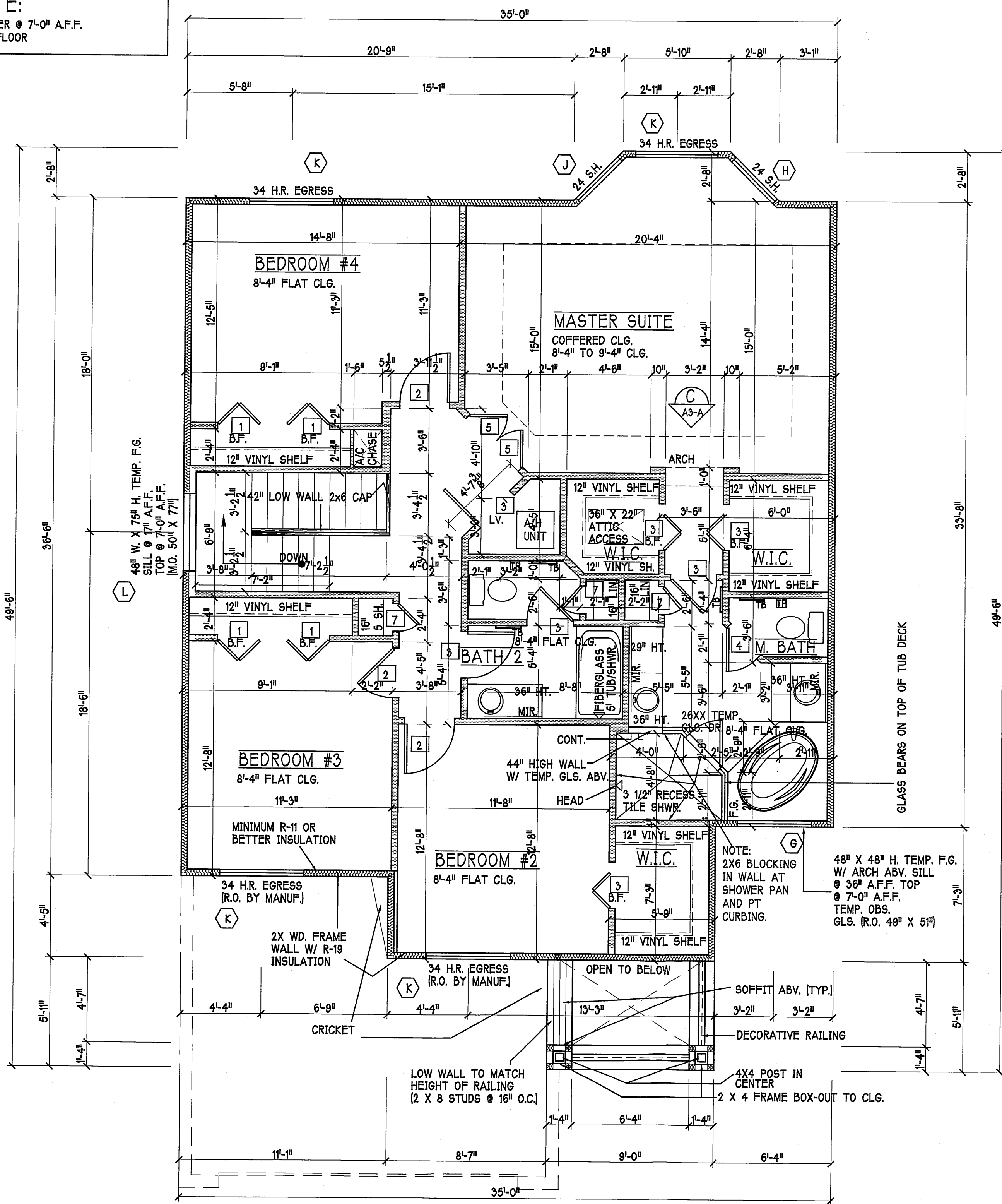
STRUCTURAL  
SYSTEMS  
OF NORTH FLORIDA  
DEREK BERGER P.E.  
AUG 27 2012  
FL PE #85562

MODEL: LOT: 9 BLOCK: 1  
UNIT 2554 WD SUBDIV: BUCKS RUN  
RESIDENCE FOR: ADDRESS: 7851 BUCKS RUN DR.  
SPEC G.C.D. JOB #: DR-2733

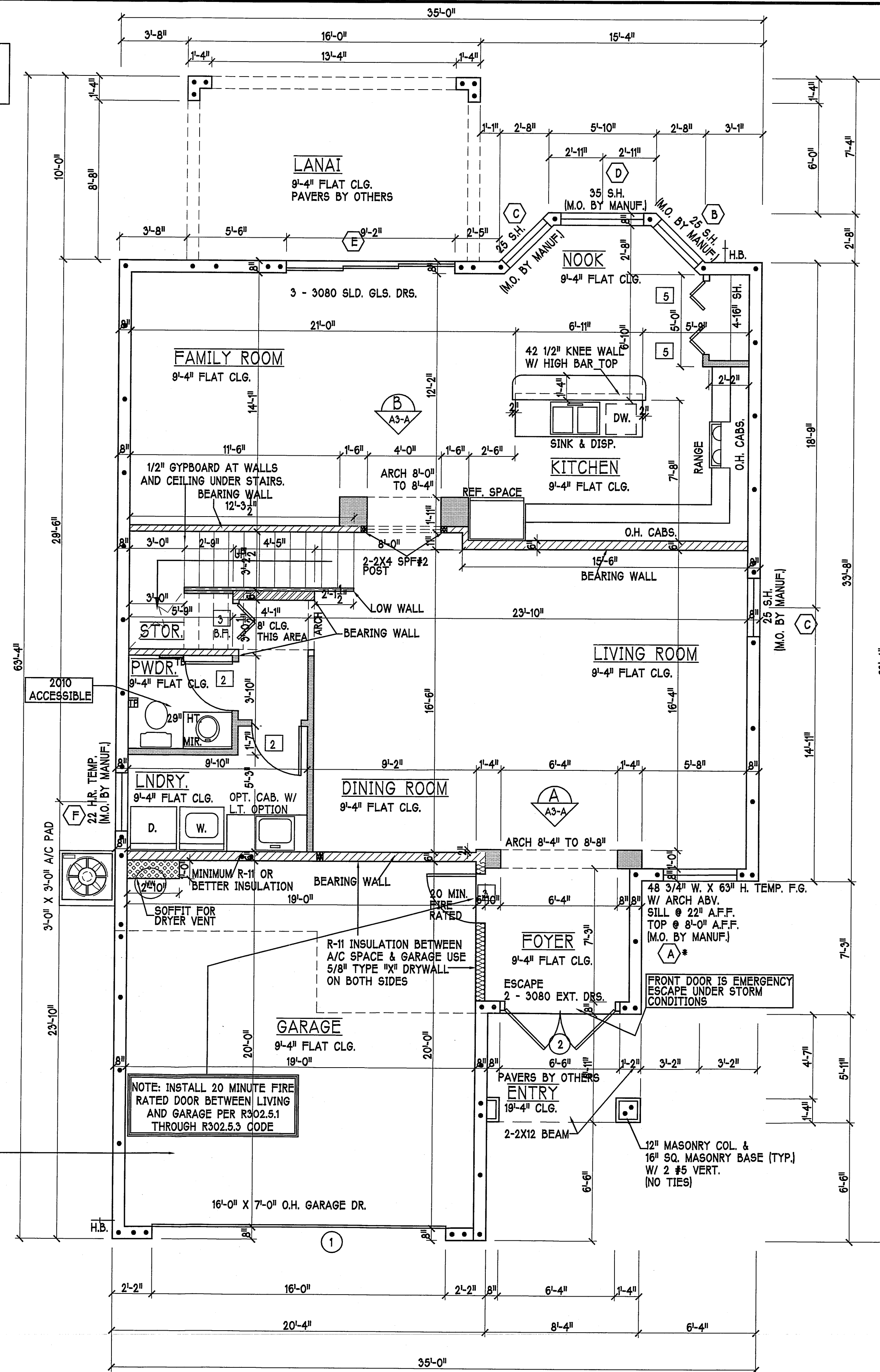
DATE: 8-27-12  
DRAWN BY: D.B.  
CHECKED BY: JWC  
REVISED:  
PLAN: FOUNDATION  
SCALE: 1/4" = 1'-0"  
SHEET# A2-A



NOTE:  
HEADER @ 7'-0" A.F.F.  
2ND FLOOR



NOTE:  
TOP OF WINDOW @ 8'-0" A.F.F.  
1ST FLOOR



| WIND PRESSURES PER ASCE7-10, 160 MPH EXPOSURE B, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. |          |                     |      |        |      |               |
|---|----------|---------------------|------|--------|------|---------------|
| MARK  | SIZE     | PRODUCT DESCRIPTION | DOOR | HEIGHT | ZONE | WIND PRESSURE |
| 1   | OVERHEAD | GARAGE DOOR         | 192  | 84     | 4&5  | +23.3/-26.0   |
| 2   | SWING    | DISTINCTION         | 78   | 96     | 4    | +27.7/-30.0   |
|   |          |                     |      | 5      | 5    | +27.7/-37.0   |

GARAGE DOOR ASSUMES 2' IN ZONE 5.

| WIND PRESSURES PER ASCE7-10, 160 MPH EXPOSURE B, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. |      |                     |      |               |                              |     |
|---|------|---------------------|------|---------------|------------------------------|-----|
| MARK  | SIZE | PRODUCT DESCRIPTION | ZONE | WIND PRESSURE | WIND-BORNE DEBRIS PROTECTION | QTY |
| A   | F.6  | 502L2X1             | 4    | +27.7/-30.0   | SHUTTERS                     | 1   |
| B   | 25   | SH                  | 4    | +27.7/-30.0   | SHUTTERS                     | 3   |
| C   | 25   | SH                  | 4    | +27.7/-30.0   | SHUTTERS                     | 1   |
| D   | 35   | SH                  | 4    | +27.7/-30.0   | SHUTTERS                     | 2   |
| E   | 3080 | SL. GL. DOOR        | 5    | +24.4/-30.6   | SHUTTERS                     | 1   |
| F   | 22   | HR                  | 4    | +27.7/-30.0   | SHUTTERS                     | 1   |
| G   | F.6  | EBLSBX1 OBS.        | 4    | +27.7/-30.0   | SHUTTERS                     | 1   |
| H   | 24   | HR                  | 4    | +27.7/-30.0   | SHUTTERS                     | 1   |
| J   | 24   | HR                  | 4    | +27.7/-30.0   | SHUTTERS                     | 1   |
| K   | 34   | HR                  | 4    | +27.7/-30.0   | SHUTTERS                     | 1   |
| L   | F.6  | STAIRWAY            | 5    | +27.7/-37.0   | SHUTTERS                     | 1   |
|   |      |                     |      |               |                              | 15  |

\* NOTE: INCLUDES 3" FOR ARCH BUILD DOWN

\*\*\*\* NOTE: \*\*\*\*  
STUB OUT FOR GAS @ OUTDOOR KITCHEN, RANGE, WATER HEATER, AND DRYER. VERIFY WITH CONTRACT AND SUBV. SPECS. A SEPARATE PERMIT IS REQUIRED FOR GAS PIPING.

| SQUARE FOOTAGE        |        |
|-----------------------|--------|
| 1ST FLOOR LIVING AREA | 1247'  |
| 2ND FLOOR LIVING AREA | 1307'  |
| TOTAL LIVING AREA     | 2,554' |
| GARAGE AREA           | 415'   |
| ENTRY AREA            | 49'    |
| LANAI AREA            | 160'   |
| TOTAL AREA            | 3,178  |

FRAMERS NOTES:  
NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING ON STUDS SHALL NOT EXCEED 24" O.C.  
NON BEARING WALLS ONLY.

- PLAN NOTES:
- SEE EXTERIOR ELEVATION SHEET FOR DETAILS OF ALTERNATE WINDOW ARRANGEMENTS, ENTRY WALKS AND ADDITIONAL WALKS.
  - KITCHEN KNEE WALL 42 1/2" TO TOP USING 2x4 TOP PLATE.
  - MEDICINE CABINETS OPENING 14x18 TOP OF OPENING @ 72" / 5" OFF WALL.
  - JOB MUST BE BROOM SWEEP EVERYDAY.
  - VERIFY ROUGH OPENING DIMENSIONS FOR ALL WINDOWS AND DOORS.
  - PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE.
  - INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS.
  - WHERE DRYWALL CEILING IS APPLIED TO TRUSSES AT 24" O.C. USE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. 702.3.5.

| CABINET BACKING |  |                 |
|-----------------|--|-----------------|
| KITCHEN         | UPPER TOP @ 54", 84" & 96"<br>MICROWAVE @ 102" | BASE TOP @ 36"  |
| MASTER BATH     | UPPER  | BASE- TOP @ 36" |
| GUEST BATH      | UPPER  | BASE- TOP @ 36" |
| LAUNDRY RM.     | UPPER TOP @ 84"                                | BASE            |

BATHROOM NOTES  
ALL TUB DECKS @ 21" A.F.F.  
ALL BLOCKING TO BE PT IN SHOWERS

| DOOR HEADERS |               |                |  |
|--------------|---------------|----------------|--|
| 6'-8" BIFOLD | HEADER HEIGHT | 82" A.F.F.     |  |
| 6'-8" SWING  | HEADER HEIGHT | 82 1/2" A.F.F. |  |
| 8'-0" SWING  | HEADER HEIGHT | 98 1/2" A.F.F. |  |

VINYL SHELF NOTES:  
1 ALL CLOSET SHELVES TO BE 12"  
2 ALL PANTRY & LINEN TO BE 16"  
SHELVES 18" O.F.F. WITH 15" INCREMENT.

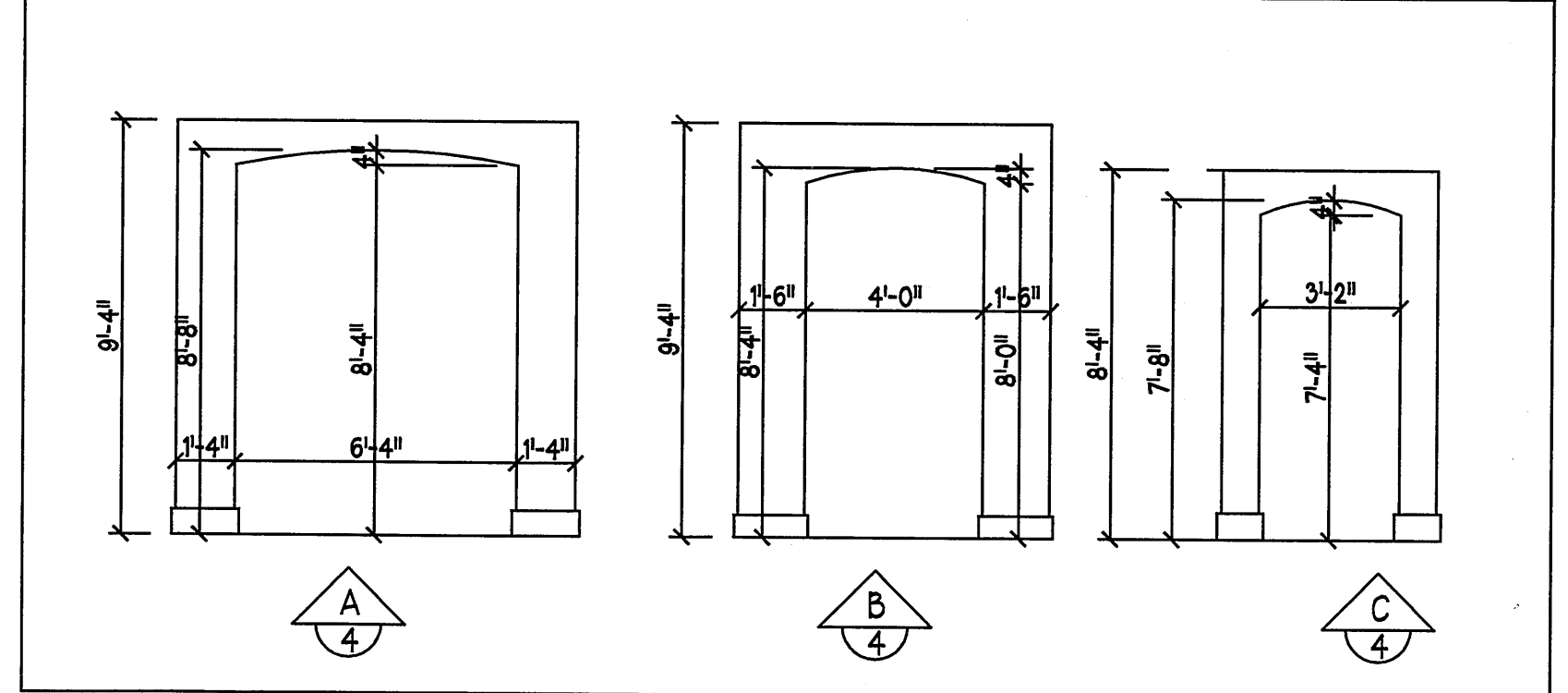
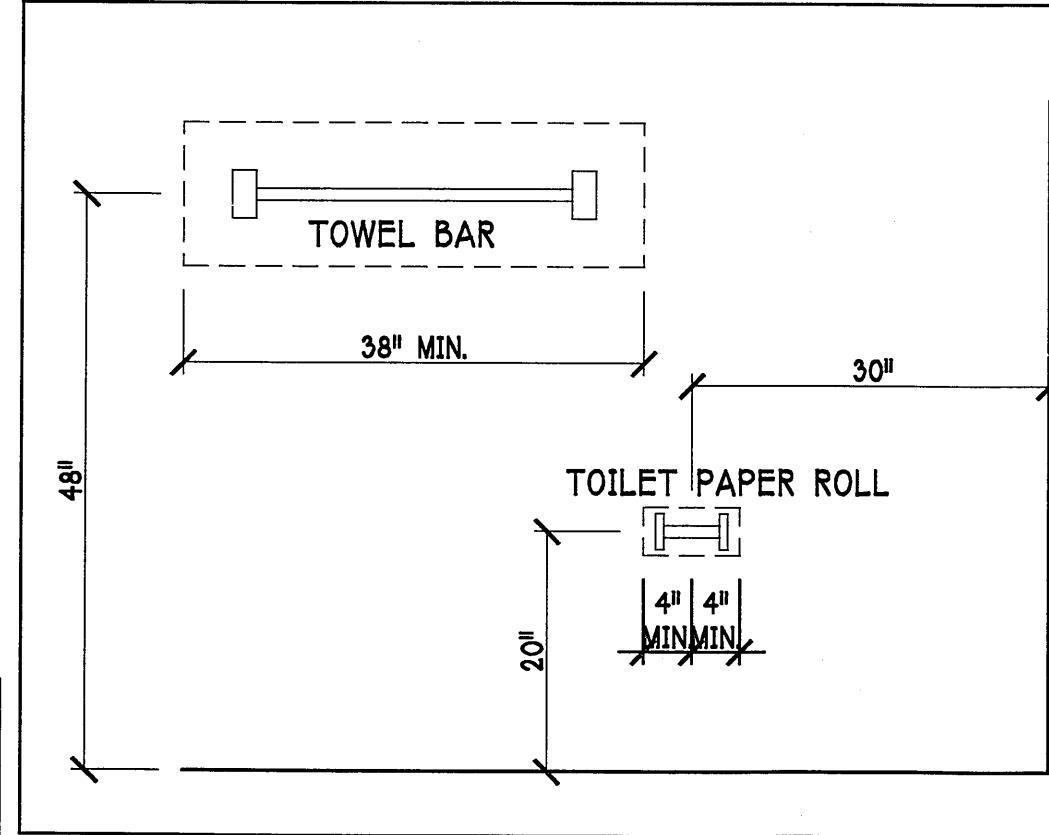
DESIGN IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010

## OPTION NOTES

- \* SCREEN ENCLOSURE OPTION 500000SE (STANDARD IN CATALINA ONLY).
- \* IMPACT WINDOWS WHOLE HOUSE W10000IC.
- \* UPGRADE GARAGE DOOR: CHANGES PER PLAN G0000003

| INTERIOR DOOR SCHEDULE |            |                     |
|------------------------|------------|---------------------|
| MARK                   | DOOR WIDTH | NOTES               |
| 1                      | 3'-0"      | PK. = POCKET DOOR   |
| 2                      | 2'-8"      | B.F. = BI-FOLD DOOR |
| 3                      | 2'-6"      | B.P. = BI-PASS DOOR |
| 4                      | 2'-4"      | LV. = LOUVERED DOOR |
| 5                      | 2'-0"      |                     |
| 6                      | 1'-8"      |                     |
| 7                      | 1'-6"      |                     |

PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT DOOR. [PER FLORIDA BUILDING CODE-R308.3.1]  
NOTE: PROVIDE SAFETY GLAZING AT BATH/SHWR. SHALL COMPLY WITH R 308.3.1



**D.R. HORTON**  
America's Builder

Gulf Coast Drafting & Design  
Phone (239) 540-1822  
Fax (239) 540-7759

STRUCTURAL SYSTEMS OF NORTH FLORIDA  
DREW REGENER P.E.  
AUG 27 2012  
FL PE #56552


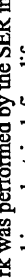
LOT: 9 BLOCK: SUBDIV: BUCKS RUN  
UNIT: 2554 WD  
ADDRESS: 751 BUCKS RUN DR.  
G.C.D. JOB #: DR-2733

MODEL: RESIDENCE FOR: SPEC

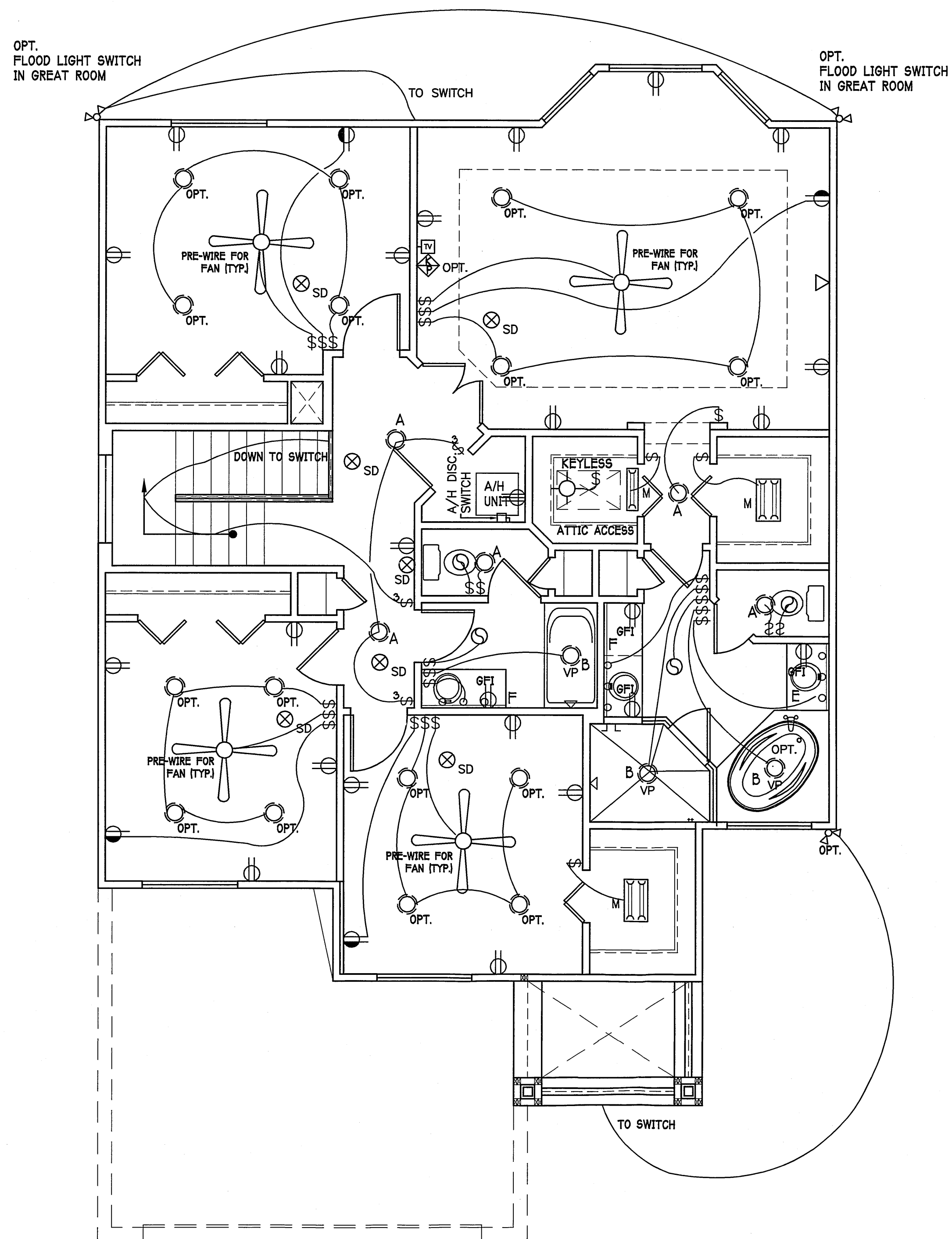
DATE: 8-27-12  
DRAWN BY: D.B.  
CHECKED BY: JWC  
REVISED:  
PLAN: FLOOR  
SCALE: 1/4" = 1'-0"  
SHEET#

**A3-A**

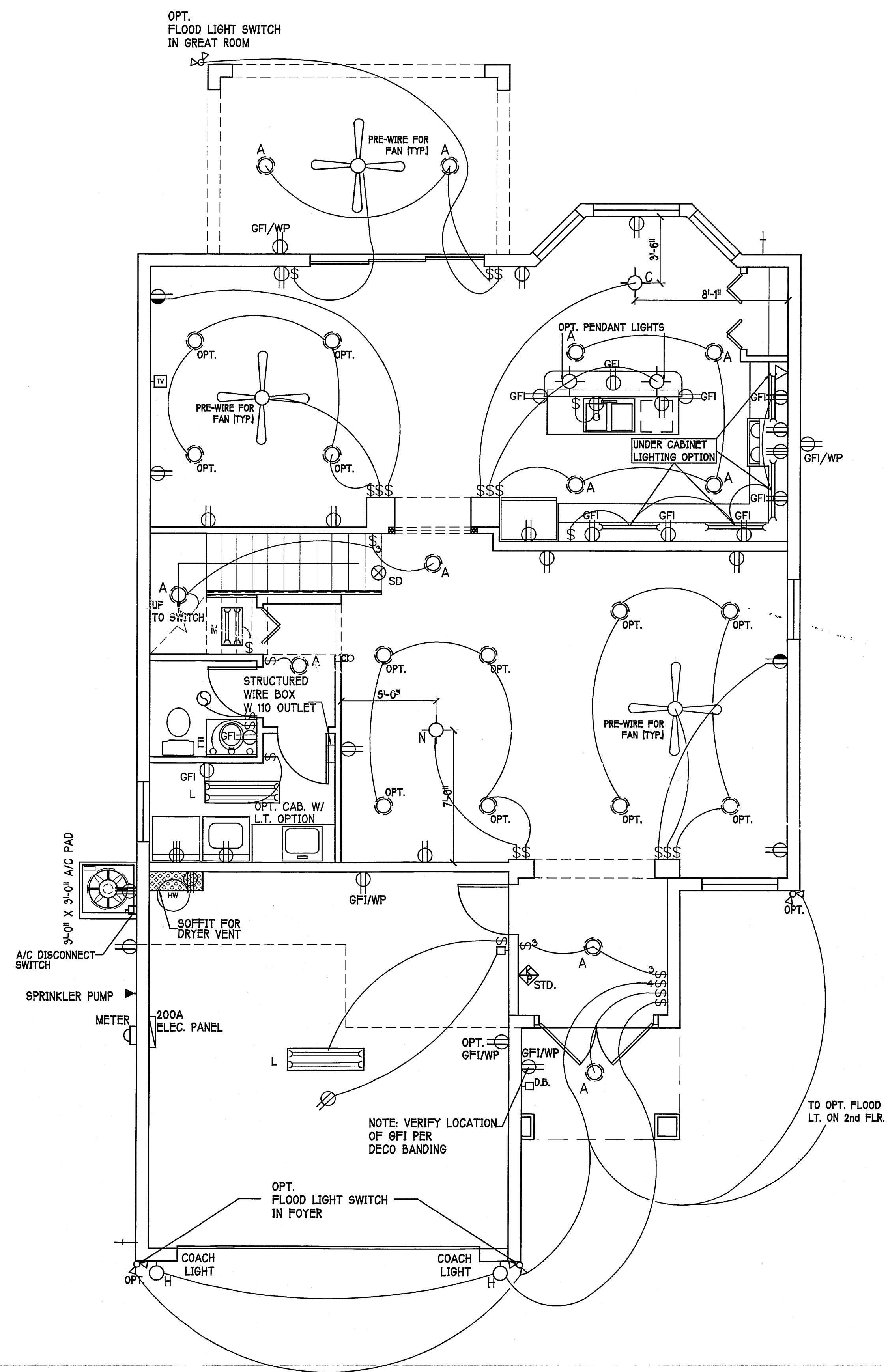


|  |              |
|--|--------------|
| <p><b>D-R HOUGHTON</b>  <i>America's Builder</i></p>   |              |
| <p><b>Gulf Coast Drafting &amp; Design</b></p> <p>Phone (239) 540-1822<br/>Fax (239) 540-7759</p>  |              |
| <p><small>This signature and seal is for work performed by the Structural Engineer of Record in accordance with the Florida Building Code, Chapter 6, Part 2, and the Florida Building Code, Chapter 9, Part 2. This signature and seal is not valid for work performed in other disciplines such as architectural, mechanical, plumbing, electrical, fire, life, safety, or any other discipline not specifically listed in the code.</small></p> |              |
| <p><b>STRUCTURAL ENGINEERING</b></p> <p><b>SYSTEMS</b></p> <p><b>OF</b></p> <p><b>NORTH FLORIDA</b></p> <p>1634 S.E. 47th ST. SUITE #3<br/>FORT MYERS, FL 33904<br/>(239) 549-4554<br/>CAN 8869</p>  |              |
| <p><b>DEREK GRUBER P.E.</b></p> <p></p> <p>AUG 27 2012</p> <p>FL PE #58552</p>  |              |
| MODEL:   | UNIT 2554 WD |
| DATE:  | 8-27-12      |
| DRAWN BY:  | D.B.         |
| CHECKED BY:  | JWC          |
| REVISED:   |              |
| PLAN:  | ROOF         |
| SCALE:   | 1/4"=1'-0"   |
| SHEET#   | A4-A         |





2nd FLOOR ELECTRICAL PLAN: "A" SCALE: 1/4" = 1'-0"



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

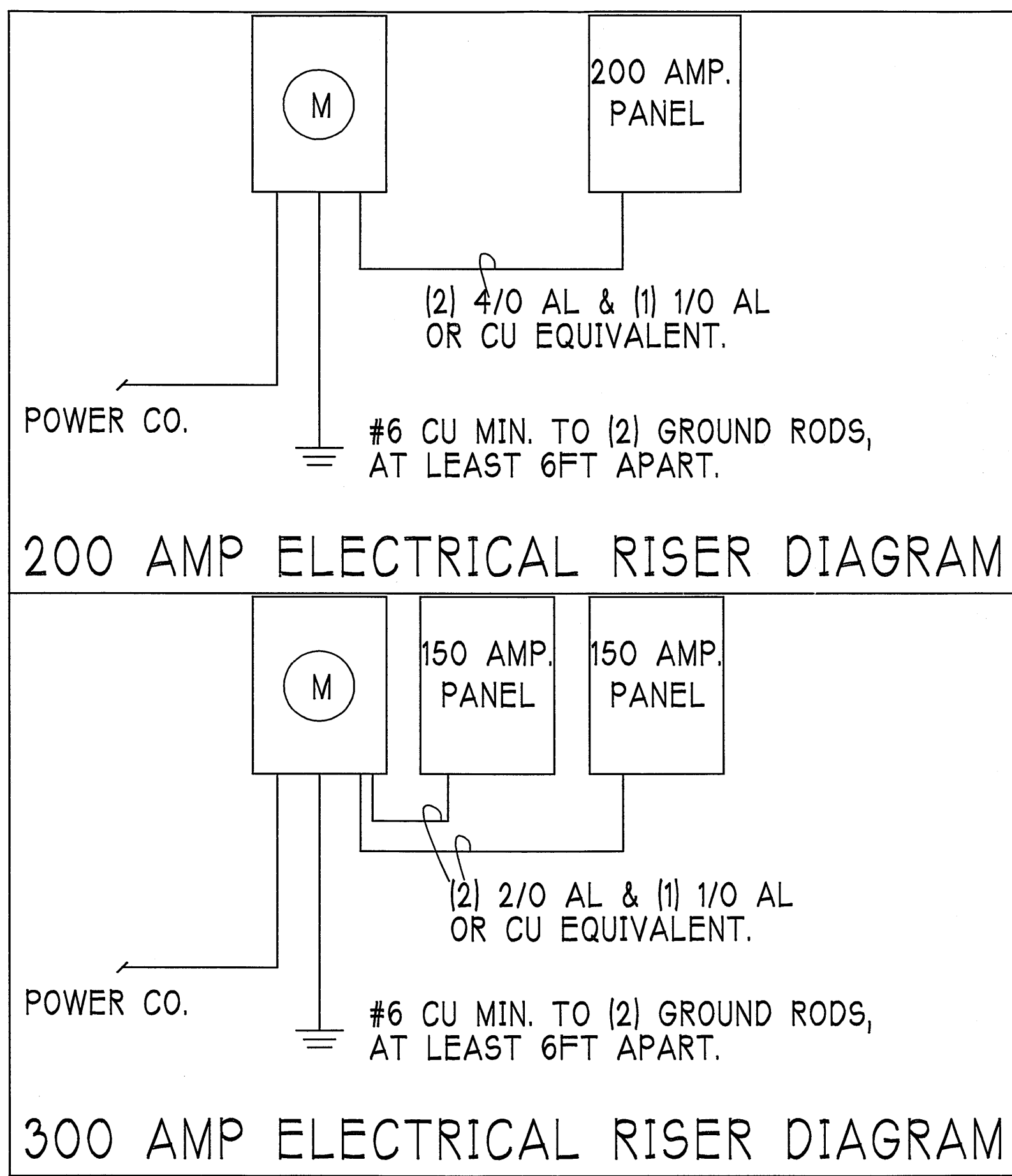
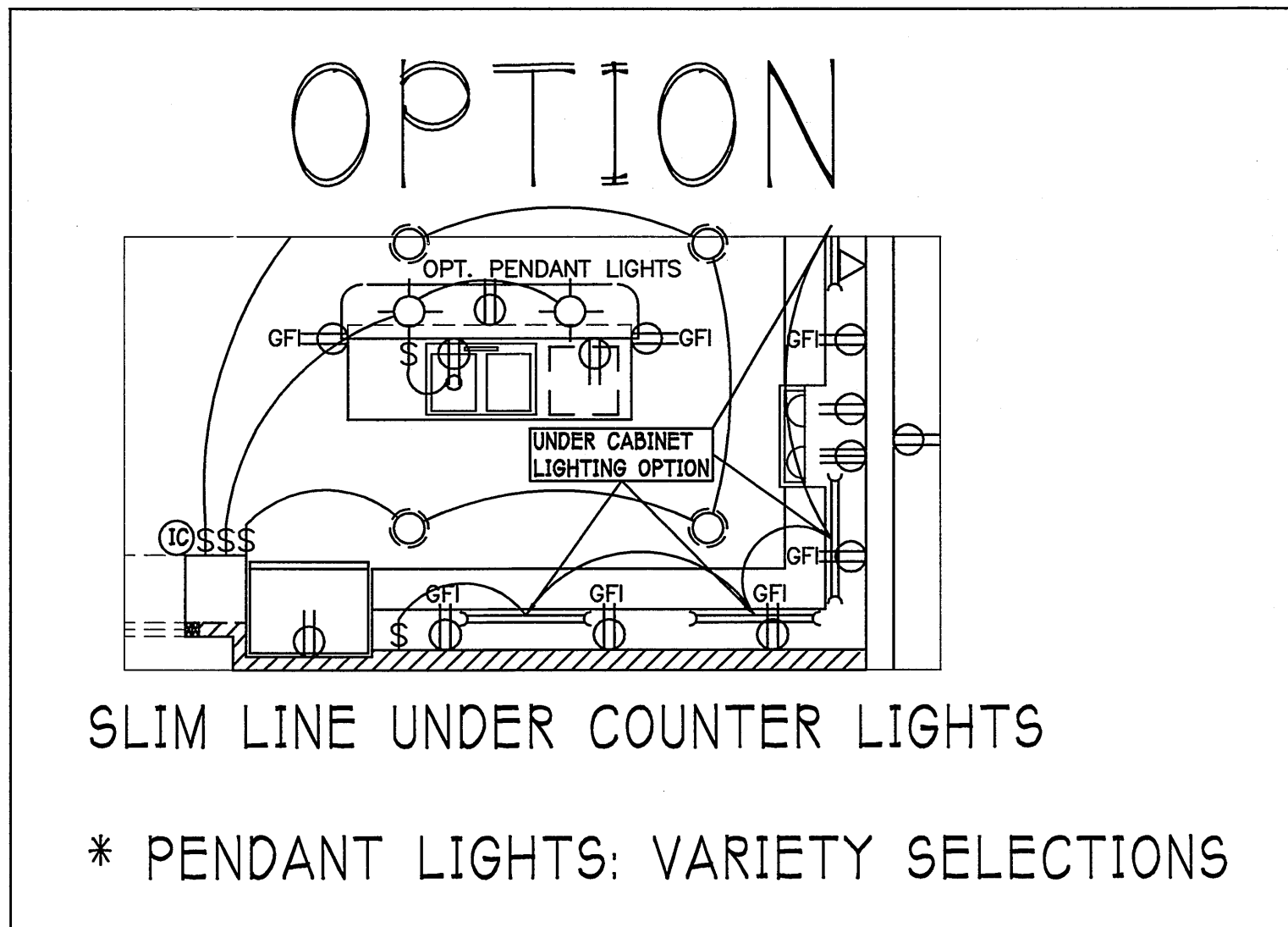
OPTIONAL SANDOVAL ONLY

- 2 RG6 CABLE
- 2 CAT5E INTERNET
- ALL BEDROOMS, STUDY AND STANDER TV AREAS

ELECTRICAL LEGEND

|  |  |
|--|--|
|  | ELECTRICAL METER   |
|  | ELECTRICAL PANEL   |
|  | 120 V JUNCTION BOX   |
|  | SINGLE RECEPTACLE OUTLET   |
|  | 220 V RECEPTACLE OUTLET  |
|  | 4-PLEX RECEPTACLE OUTLET   |
|  | DUPLEX RECEPTACLE OUTLET   |
|  | 1/2 SWITCHED DUPLEX OUTLET   |
|  | DUPLEX RECEPTACLE @ ELEV. A.P.F.   |
|  | TIMER SWITCH   |
|  | GFI SWITCH   |
|  | DIMMER SWITCH  |
|  | 3 WAY SWITCH   |
|  | SINGLE POLE SWITCH   |
|  | AC/DC SMOKE DETECTOR<br>TO BE INTERCONNECTED<br>ANY RESIDENT HAVING A FOSSIL-BURNING<br>HEATER OR APPLIANCE, A FIREPLACE, OR<br>AN ATTACHED GARAGE SHALL HAVE AN<br>OPERATIONAL CARBON MONOXIDE ALARM<br>INSTALLED WITHIN 10 FEET OF EACH<br>ROOM USED FOR SLEEPING PERPOSES.<br>PER RULE 90-5.04.72 |
|  | TELEPHONE OUTLET   |
|  | TELEVISION RECEPTION OUTLET  |
|  | SURFACE MOUNTED CEILING LIGHT  |
|  | RECESSED LIGHT   |
|  | WALL MTD. BRACKET LIGHT  |
|  | DUPLEX FLOOD LIGHT   |
|  | EXHAUST FAN  |
|  | TRACK MTD. LIGHTS  |
|  | A/C DISCONNECT   |
|  | PUSH BUTTON  |
|  | DOOR BELL  |
|  | KEYPAD   |
|  | 4' FLUORESCENT LIGHT   |
|  | 2' UNDER COUNTER LIGHT   |

Electrical Notes:  
Install Arc-Fault circuit-Interruptioners & Tamper-Resistant Receptacles shall be installed in dwelling unit. per NEC 210.12 & 406.11  
All electrical equipment to be set at or above base flood elevation.  
All outlets in wet areas and all exterior outlets to be GFI's  
Install Phone & T.V per contract .  
INSTALL ALL ELECTRICAL PER NEC 2008



OPTIONAL ELECTRICAL PLAN 2554 "A"

| 200 Amp Service |          |                 |           |
|-----------------|----------|-----------------|-----------|
| TAG             | QUANTITY | PRODUCT         | PRODUCT # |
| A               | (44)     | Recessed Cans   |           |
| B               | (3)      | Vapors          |           |
| C               | (1)      | Pendent/Nook    | P5090-09  |
| D               | (X)      | 10" Mushrooms   | P3410-30  |
| E               | (2)      | 24" Hollywood   | P3298-15  |
| F               | (2)      | 36" Hollywood   | P3299-15  |
| G               | (X)      | 48" Hollywood   | P3300-15  |
| H               | (2)      | Coach Lights    | P5815-30  |
| J               | (X)      | Coach Lights    | P5683-30  |
| K               | (X)      | J BOX           |           |
| L               | (2)      | 4' FLUORESCENT  |           |
| M               | (4)      | 2' FLUORESCENT  |           |
| N               | (1)      | 5 ft Chandelier | P4391-09  |
|                 | (1)      | Keyless         |           |



1  
**RESIDENTIAL SPECIFICATIONS**  
**GENERAL NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL SUPPLY, LOCATE AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS AND PITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.
3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
4. SUBSURFACE SOIL CONDITION INFORMATION IS NOT AVAILABLE. FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
5. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND HOUSE PLANS, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS, CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. ALL SPECIFIED FASTENERS MAY ONLY BE SUBSTITUTED IF APPROVED BY THE ENGINEER IN WRITING, THE INSTALLATION OF THE FASTENERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. SIMPSON FASTENERS SPECIFIED MAY BE SUBSTITUTED WITH THE SAME QUANTITY AND EQUIVALENT STRENGTH PRODUCT.
7. TREATED WOOD REQUIREMENTS:- ALL WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESSURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, OR PRESSURE TREATED.
8. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS.
9. CEILING DRYWALL INSTALLED WITHIN THE HOUSE TO TRUSSES SPACED 24" O.C. SHALL BE 5/8" DRYWALL OR 1/2" S&G RESISTANT PER SEC. 702.3.5
10. LANAI CEILINGS & COVERED ENTRY CEILINGS  
1/4" STRIPPING @ 16" O.C. FASTENED WITH 2-6d NAILS TO EACH TRUSS. 5/8" EXTERIOR GYPBOARD CEILING FASTENED WITH 8d NAILS OR 1-5/8" DRYWALL SCREWS @ 6" oc EDGE AND FIELD.

2  
**DOOR AND WINDOW ANCHORAGE**

**ANCHORAGE REQUIREMENTS:-** ALL PASS AND SLIDING GLASS DOORS AND ALL WINDOW ASSEMBLIES SHALL BE ANCHORED TO THE MAIN WIND FORCE RESISTING LITERATURE. THERE SHALL BE NO SUBSTITUTION OF ALTERNATE FASTENINGS UNLESS PROVIDED BY THE MANUFACTURER AND APPROVED BY THE BUILDING DESIGN ENGINEER.

**MASONRY OPENING**  
WHERE WINDOW FRAME IS DESIGN TO FASTEN WITH SCREWS THROUGH THE FRAME AND INTO THE MASONRY, THE BUCK MATERIEL IS SIMPLY A SPACER. THE BUCK MAY BE FASTENED WITH T NAILS OR ANY SUITABLE FASTENER TO TACK IT INTO POSITION PRIOR TO WINDOW INSTALLATION. FASTEN WINDOW FRAME PER MFR INSTRUCTIONS. A WINDOW FASTENER SHALL PENETRATE MASONRY BY 2 1/4" MIN.

WHERE WINDOW FRAME IS DESIGNED TO FASTEN ONLY TO THE WOOD BUCK (IE. FLANGED FRAME WITH WOOD SCREWS) THE BUCKS SHALL BE 2X WOOD WITH STRUCTURAL FASTENING TO THE MASONRY WITH 1/4X 3 3/4" MASONRY SCREWS @ 24" OC AND 6" FROM EACH END.

WOOD FRAMED OPENING:- ALL DOORS AND WINDOWS SHALL BE INSTALLED ACCORDING TO THE PUBLISHED MANUFACTURERS LITERATURE OF THE ASSEMBLY BEING INSTALLED TO THE ROUGH SUBSTRATE OPENING. SHIMS SHALL BE MADE OF MATERIALS CAPABLE OF RESISTING THE APPLIED LOADS AND SHALL BE LOCATED NEAR EACH FRAME FASTENER TO MINIMIZE DISTORTION OF THE FRAME AS THE FASTENERS ARE TIGHTENED.

3  
**GENERAL ROOF ASSEMBLY**

**ROOF SHEATHING**  
SHALL BE APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 OR BETTER.

INSTALL PANELS WITH LONG DIMENSION PLACED PERPENDICULAR TO TRUSSES. A 1/8" SPACE BETWEEN ADJACENT SHEETS SHALL BE MAINTAINED. INSTALL 1/4" CLIPS AT UNSUPPORTED PANEL EDGES. THE ROOF SHEATHING SHALL BE Nailed WITH 8d RING SHANK NAILS @ 6" O.C. EDGE AND FIELD. ENSURE THAT ALL NAILS PENETRATE THE TOP CHORD OF THE TRUSS WITHOUT SPLITTING. RING SHANK NAILS PER R803.2.3.1 - 0.13" NOMINAL SHANK DIAMETER, RING DIA. OF 0.02" OVER SHANK DIAMETER, 16 TO 20 RINGS PER INCH, 0.280" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH.

**FLASHING**  
FLASHING SHALL BE ALUMINUM, ALUMINUM ZINC COATED STEEL .0179 INCHES THICK, 26 GAGE AZ50 ALUM ZINC, OR GALVANIZED STEEL .0179 INCHES THICK, 26 GAGE ZINC COATED 680. FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THE ZIP SYSTEM ROOF SHEATHING MANUFACTURERS PUBLISHED REQUIREMENTS. ALL FLASHING AND INSTALLATION SHALL CONFORM TO SECTION R803.2.8 (1 TO 5).

**DRIP EDGE**  
DRIP EDGE SHALL BE PROVIDED AT ALL EAVES AND GABLES OF SHINGLE ROOFS. LAPPED A MINIMUM OF 3" @ JOINTS. THE OUTSIDE EDGE SHALL EXTEND A MINIMUM OF 1/2" BELOW SHEATHING AND THE INSIDE EDGE SHALL EXTEND BACK A MINIMUM OF 2". DRIP EDGE SHALL BE FASTENED AT NO MORE THAN 4" CENTERS. THERE SHALL BE A MINIMUM OF 4" WIDTH OF ROOF CEMENT INSTALLED OVER THE DRIP EDGE FLANGE.

- 4  
**WOOD FRAMING:**
1. ALL WOOD FRAMING SHALL BE FABRICATED AND INSTALLED PER NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
  2. UNLESS NOTED OTHERWISE THE FOLLOWING MINIMUM GRADES SHALL BE USED:
    - A. INTERIOR BEARING WALLS 9PF #2
    - B. RAFTERS, JOISTS, HEADERS AND BEAMS SYP #2.EXTERIOR BEARING WALLS,
  3. TREATED WOOD REQUIREMENTS: ALL WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESSURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, PRESSURE TREATED.
  4. CONTRACTOR SHALL PROVIDE ALL FASTENING DEVICES AS SHOWN ON THE DRAWINGS AND AS NECESSARY AND SUITED FOR EACH APPLICATION. FASTENING SUBJECT TO MOISTURE SHALL BE HOT DIP GALVANIZED TO ASTM A-153-80, OR STAINLESS STEEL.
  5. ALL METAL CONNECTIONS AND FABRICATIONS SHALL COMPLY WITH AISC SPECIFICATIONS.
  6. SOLID BLOCK ALL JOISTS AND RAFTERS AT POINTS OF SUPPORT.
  7. PREFABRICATED STRUCTURAL TRUSSES SHALL COMPLY WITH NFPA NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, TPI DESIGN SPECIFICATIONS FOR METAL PLATE WOOD TRUSSES AND ATTIC 100.
  8. ALL TRUSSES SHALL BE DESIGNED AND CERTIFIED BY THE TRUSS MANUFACTURERS STATE OF FLORIDA REGISTERED ENGINEER.
  9. CONTRACTOR SHALL CORRELATE WITH TRUSS MANUFACTURER TO ENSURE THAT ADEQUATE BEARING IS PROVIDED AT END REACTIONS OF ALL GIRDER TRUSSES.
  10. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE CONTRACTOR AND DESIGNER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF DIMENSIONS, MATERIALS AND CONDITIONS.
  11. AT VOLUME CEILING CONDITIONS, ALIGN TRUSSES TO PROVIDE A SMOOTH AND UNBROKEN INTERIOR WALL SURFACE FROM FLOOR TO CEILING.
  12. BRACE TRUSSES DURING ERECTION AND AFTER PERMANENT INSTALLATION TO COMPLY WITH TPI BWY-76.
  13. MICRO-LAMS (OR EQUAL PARALAMS, LVL'S, ETC) SHALL BE USED WHERE SPECIFIED ON ENGINEERED PLANS AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ANY EDGES OR ENDS EXPOSED TO THE WEATHER SHALL BE PROTECTED BY THE INSTALLATION OF 26 GA, MIN, GALVANIZED STEEL FLASHING.
  14. SPLICES IN MULTI-BOARD CONTINUOUS BEAMS SHALL BE ALLOWED FOR ONE BOARD ONLY PER SPAN AND ONLY AT THE QUARTER POINT OF THE SPAN, UNLESS SHOWN OTHERWISE.
  15. SPACE FRAMING OF ARCHES UNDER TIE BEAM SHALL BE FILL IN FRAME UNLESS NOTED OR CONSTRUCTED OTHERWISE.

5  
**ASPHALT SHINGLE ROOF SPECS**  
**SHINGLES**  
15# felt shall be installed under asphalt shingles. All asphalt shingles shall have self sealing strips or be interlocking and comply with ASTM D 225 or D3462, and shall be secured to the roof with no less than 6 fasteners per shingle strip, or a minimum of 2 fasteners per shingle tab. And shall in no case be fastened with less fasteners than that required by the manufacture. Installation shall comply with the manufacturers requirements for installation in the given Florida wind zone, as determined by ASTM D 3161.

**FASTENERS**  
Fasteners for asphalt shingles shall comply with ASTM F 1667, and shall be made of galvanized steel, stainless steel or aluminum with a minimum shank size of 12 gage (0.105 inches) with a minimum 3/8 inch corner head and shall be of 5 length to penetrate the sheathing.

The nail component of plastic cap nails shall meet or exceed the requirements of ASTM A 641, Class 1, or equal, and shall be corrosion resistant by coating electro galvanization, mechanical galvanization, hot dipped galvanization or shall be made of stainless steel, non ferrous metal.

6  
**CLAY AND CONCRETE TILE ROOF SPECS**  
INSTALL PEEL AND STICK UNDERLAYMENT APPROVED FOR SINGLE LAYER APPLICATION UNDER TILE ROOF.

THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF R803.3 P.3.C.

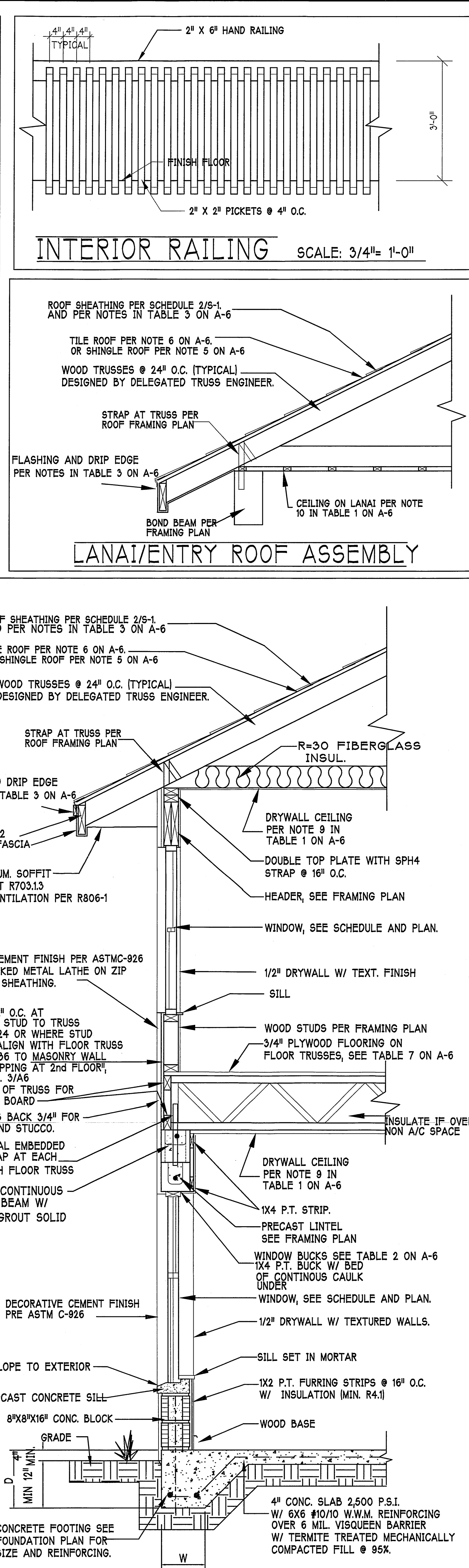
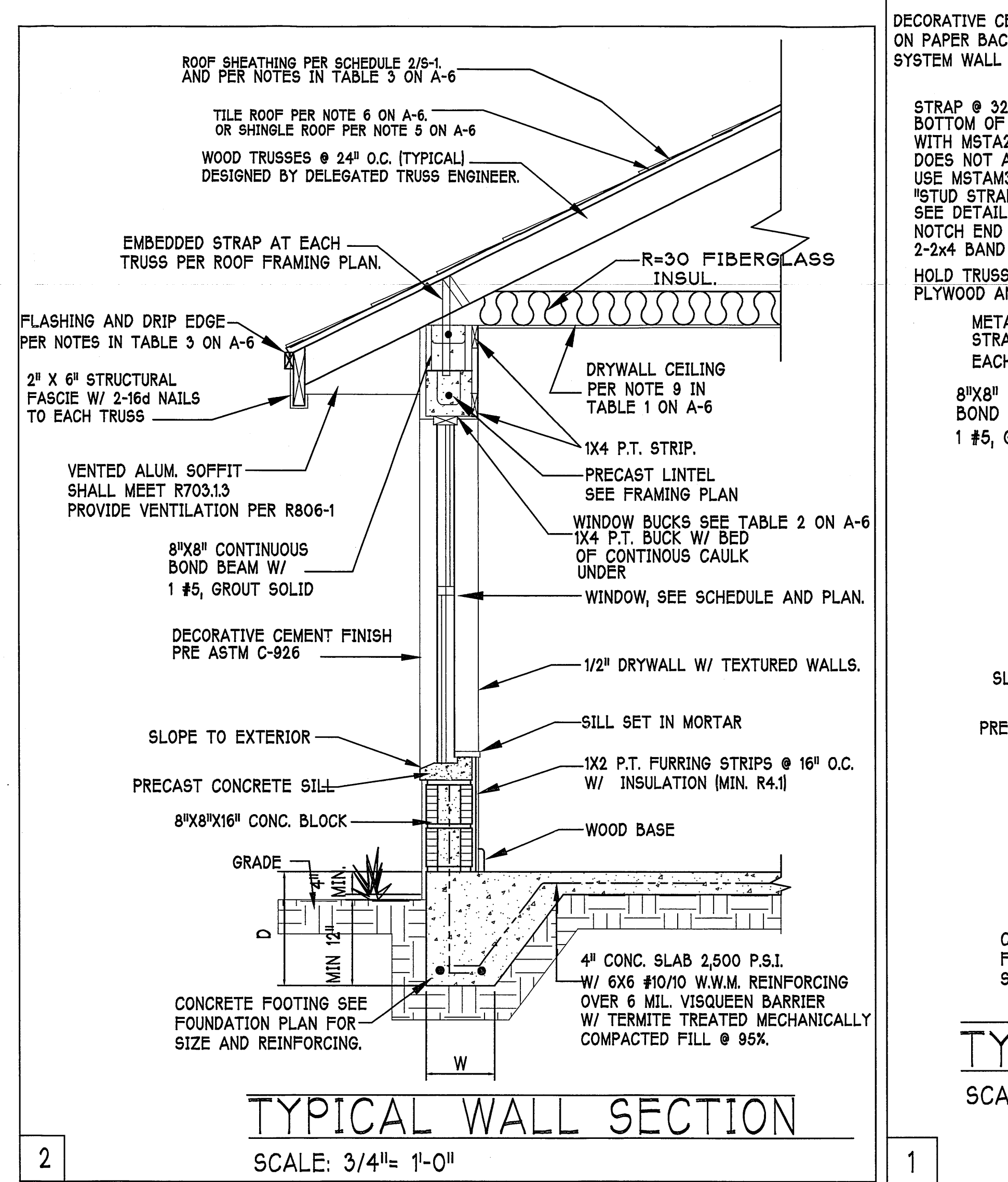
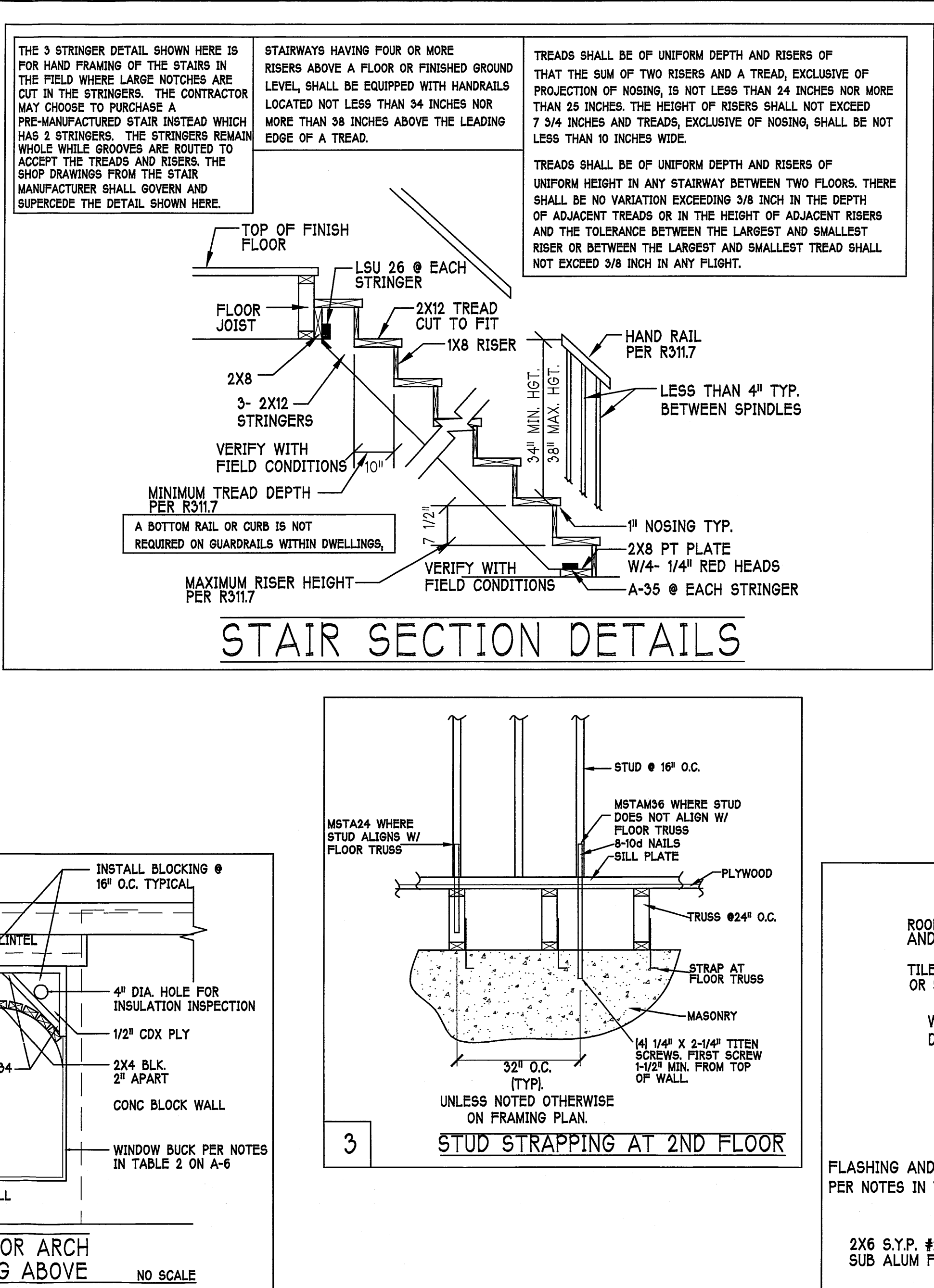
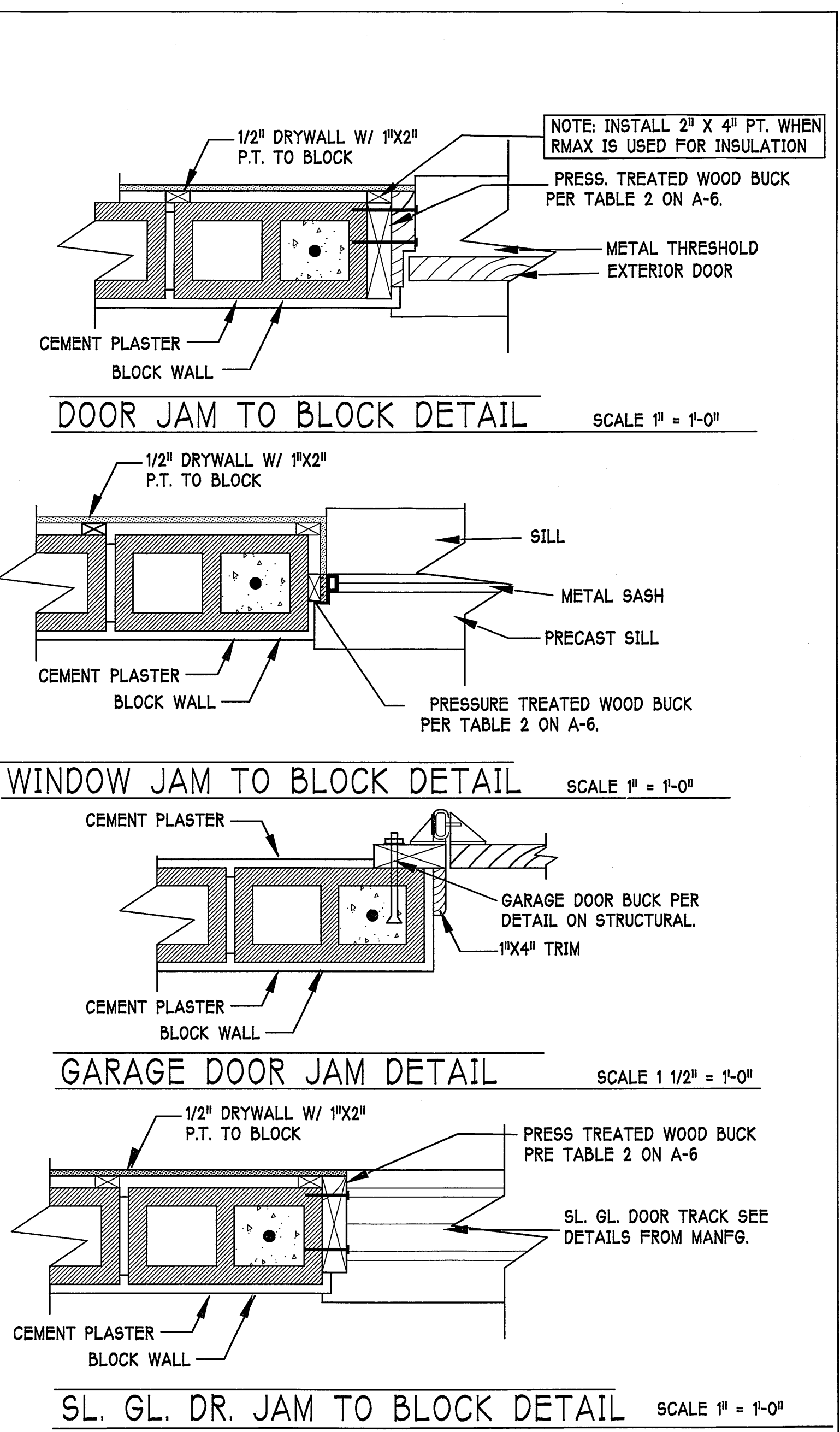
MARKING: EACH ROOF TILE SHALL HAVE A PERMANENT MANUFACTURERS IDENTIFICATION MARK.

APPLICATION SPECIFICATIONS: THE TILE MANUFACTURERS WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. TILE PLACEMENT AND SPACING.
2. ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE.
3. AMOUNT AND PLACEMENT OF MORTAR
4. TYPE, NUMBER, SIZE, AND LENGTH OF FASTENERS AND CLIPS.
5. UNDERLAYMENT
6. SLOPE REQUIREMENT.

7  
**FLOOR SHEATHING AT 2ND FLOOR**  
A.P.A. RATED STURDI-FLOOR, EXPOSURE 1, TONGUE & GROOVE EDGES SPAN RATING 48/24 OR BETTER. GLUE AND NAIL W/ 10d COMMON @ 6" O.C. EDGE AND FIELD.

8  
**EXTERIOR WALL SHEATHING**  
SHALL BE 7/8" THICK ZIP SYSTEM WALL SHEATHING MANUFACTURED BY HUBER ENGINEERED WOODS LLC. INSTALL PANELS WITH A 1/8" GAP BETWEEN EDGES AND FASTEN WITH 8d COMMON NAILS @ 6" O.C. EDGE AND FIELD. IF PANELS ARE INSTALLED HORIZONTALLY, BLOCKING SHALL BE INSTALLED BEHIND PANEL JOINTS. ALL SEAMS IN THE SHEATHING SHALL BE SEALED WITH THE ZIP SYSTEM SELF ADHERING SEAM TAPE USING THE ZIP SYSTEM APPLICATOR GUN. THE USUAL TYVEK HOUSE WRAP IS NOT REQUIRED.



**DR-HORTON**  
*America's Builder*

**Gulf Coast Drafting & Design**  
Phone (239) 540-1822  
Fax (239) 540-7759

STRUCTURAL SYSTEMS OF NORTH FLORIDA  
FL 0604 3-27-94 ST. 0015-43  
(239) 540-4543  
CEN 9809

DEREK BERGER P.E.  
AUG 27 2012  
FL PE #65952

|                |                    |
|----------------|--------------------|
| MODEL:         | UNIT 2554 WD       |
| SUBDIV:        | BUCKS RUN          |
| LOT:           | 9                  |
| ADDRESS:       | 7851 BUCKS RUN DR. |
| G.C.D. JOB #:  | DR-2733            |
| RESIDENCE FOR: | SPEC               |

DATE: 8-27-12

DRAWN BY: D.B.

CHECKED BY: JWC

REVISD:

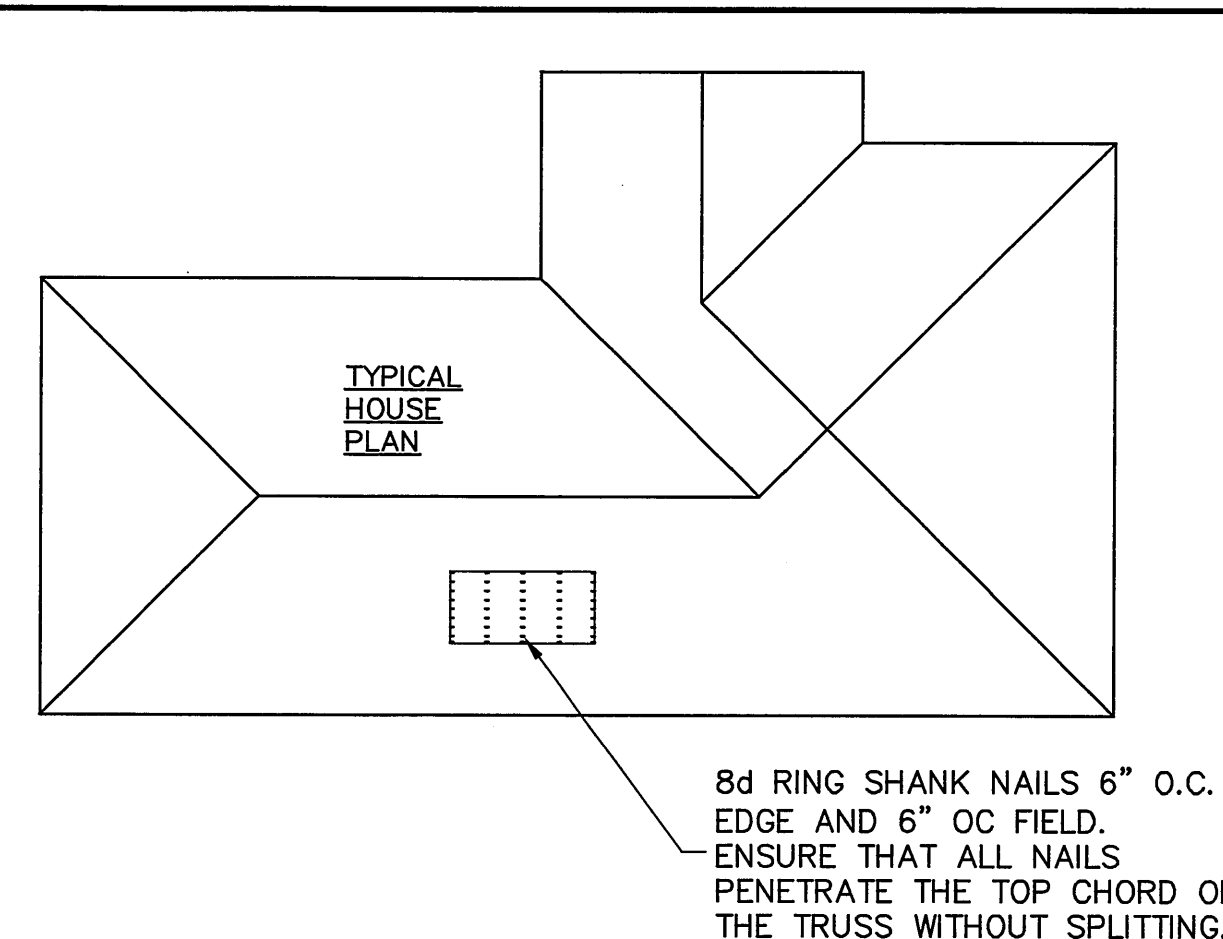
PLAN: SECTIONS

SCALE: N.T.S.

SHEET#

A6-A





**1 ROOF DECK NAILING PATTERN**

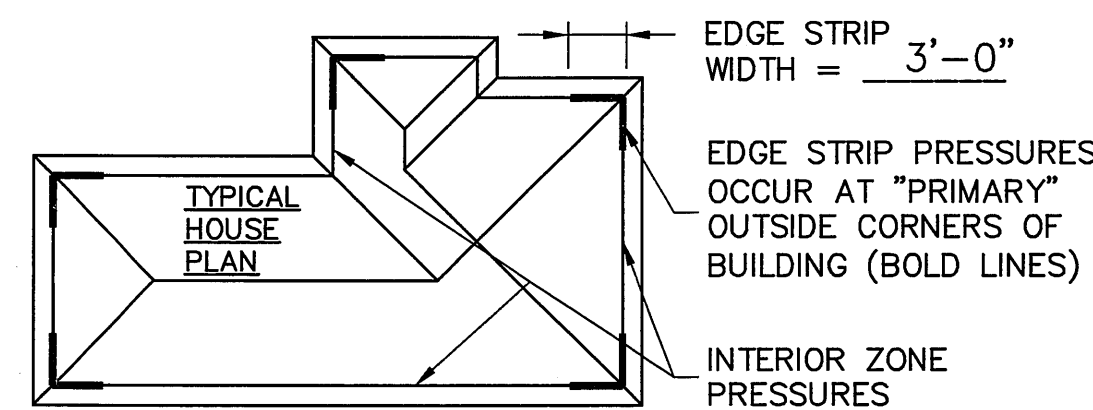
SCALE: NTS

| SHEATHING SCHEDULE  |  |
|---|--|
| EXTERIOR STUD WALL  | FLOOR  |
| 7/16" ZIP SYSTEM WALL SHEATHING BY HUBER ENGINEERED WOODS LLC, NAILED W/ 8d COMMON NAILS @ 6" O.C. EDGE AND 6" O.C. FIELD. PROVIDE 2x4 BLOCKING AT ALL JOINTS. INSTALL SHEATHING AND SEAM TAPE IN STRICT ACCORDANCE WITH MFR. WRITTEN INSTRUCTIONS.                       | APA RATED STURDI-FLOOR, EXPOSURE 1, TONGUE & GROOVE EDGES, SPAN RATING 48/24 OR BETTER, GLUE AND NAIL W/ 10d COMMON @ 6" O.C. EDGE & FIELD   |
| ROOF  | LANAI / ENTRY CEILING  |
| A.P.A. RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 OR BETTER (HIGHER NUMBERS INDICATE BETTER SPAN RATING). THE USUAL CHOICE IS 15/32" CDX PLYWOOD OR 7/16" OSB, WITH THE REQUIRED APA GRADE MARKING. FASTEN WITH 8d RING SHANK NAILS @ 6" O.C. EDGE AND 6" O.C. FIELD. | OPTIONS:<br>1) 1x4 STRIPPING @ 16"OC w/ 2-8d NAILS TO EACH TRUSS, 3/4" EXTERIOR GYPSUM BOARD CEILING, FASTEN W/8d NAILS OR 1 1/2" DRYWALL SCREWS @ 6"OC EDGE & FIELD.<br>2) 3/8" BC PLYWOOD NAILED W/ 6d COMMON @ 6" OC EDGE & FIELD.<br>3) WIRE LATHE AND 1/2" STUCCO. FASTEN WIRE LATHE WITH GALVANIZED STAPLES BY Senco OR EQUIV., 1" CROWN, 1" LONG, SPACED 4" OC. |
| (RING SHANK NAILS PER R803.2.3.1: 0.113" NOMINAL SHANK DIAMETER, RING DIA. OF 0.012" OVER SHANK DIAMETER, 15 TO 20 RINGS PER INCH, 0.280" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH)   |  |

**2**

| WINDOW & DOOR DESIGN WIND PRESSURES  |                 |              |
|--|-----------------|--------------|
| WIND PRESSURES PER ASCE7-10, 160 MPH, EXPOSURE B, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (Vwsd=124 MPH, RISK CAT II, ENCLOSED, kd=0.85, h<30') |                 |              |
| TYPE   | INTERIOR ZONE 4 | EDGE STRIP 5 |
| TYPICAL WINDOWS & DOORS  | +27.7 -30.0     | +27.7 -37.0  |
| 8' OR 9' GARAGE DOORS  | +24.3 -27.5     |              |
| 16' OR 18' GARAGE DOORS  | +23.3 -26.0     |              |

- (SEE PLAN FOR OTHER SPECIFIC PRESSURES)
- 1) TABLE MAY BE USED FOR ANY SIZE WINDOW OR DOOR IN EACH TYPE.
  - 2) USE "INTERIOR ZONE" PRESSURES UNLESS WINDOW OR DOOR IS LOCATED WITHIN THE "EDGE STRIP" (SEE DIAGRAM BELOW), THEN USE THE HIGHER PRESSURES UNDER THE "EDGE STRIP" COLUMN.
  - 3) ALL GLASS / GLAZING SHALL BE IMPACT RATED OR USE IMPACT RATED SHUTTERS.
  - 4) PRODUCT APPROVALS MUST BE ON FILE WITH THE BUILDING DEPARTMENT.



**3**

**DESIGN CRITERIA:**

DESIGN IN ACCORDANCE WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 - RESIDENTIAL.

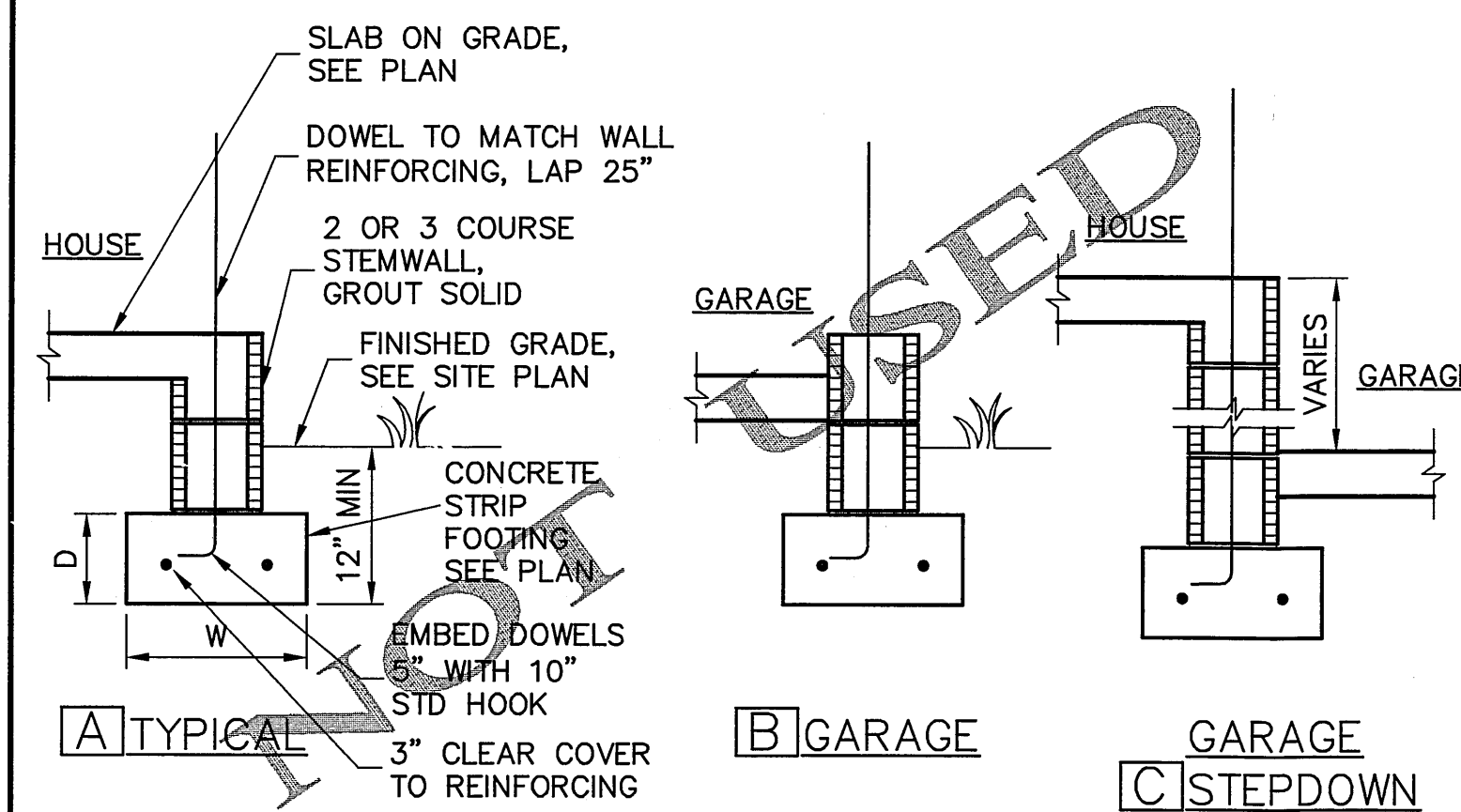
1. FLOOR & ROOF UNIFORM LOADS:  
ELEVATED FLOORS: LIVE LOAD 40 PSF, DEAD LOAD 20 PSF  
ROOF: LIVE TOP CHORD 20 PSF  
LIVE BOTTOM CHORD 10 PSF (NON-CONCURRENT w/ TOLL)  
CEMENT ROOF TILE DEAD LOAD 25 PSF TOTAL  
SHINGLE/METAL ROOFING DEAD LOAD 15 PSF TOTAL  
MINIMUM DEAD LOAD FOR WIND: TC 5 PSF, BC 5 PSF
2. WIND LOADS:  
WIND DESIGN PER ASCE7-10  
BASIC WIND SPEED (ASCE7-10) 160 MPH  
NOMINAL WIND SPEED (Vwsd TABLE R301.2.1.3) 124 MPH  
BUILDING CATEGORY 1  
IMPORTANCE FACTOR 1.00  
EXPOSURE B  
MEAN ROOF HEIGHT < 30 FT  
ROOF PITCH 5/12  
ENCLOSURE CLASS: +/- 0.18  
INTERNAL PRESS. COEFF. +/- 0.18

3. REINFORCED CONCRETE:  
DESIGN AS PER ACI 318-08  
REQUIRED COMPRESSIVE STRENGTH AT 28 DAYS:  
SLAB ON GRADE f'c = 2500 PSI  
3 1/2" MINIMUM THICKNESS REINFORCED WITH 6x6 w1.4xw1.4 WWF OR FIBERMESH.  
CONVENTIONAL SHALLOW FOOTINGS f'c = 2500 PSI  
BEAMS AND COLUMNS f'c = 3000 PSI  
ALL OTHER CONCRETE (U.N.O.) f'c = 3000 PSI  
UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:  
FOOTINGS 3"  
SLAB ON GRADE CENTERED 1 1/2"  
BEAMS 1 1/2"  
COLUMNS 1 1/2"  
ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.  
REINFORCING STEEL - ASTM A615 GRADE 60 FOR #3 GRADE 60 FOR #4 TO #11  
WELDED WIRE FABRIC - ASTM A185

4. REINFORCED MASONRY:  
DESIGN PER ACI 530-08  
REQUIRED COMPRESSIVE STRENGTHS:  
MASONRY WALLS f'm = 1500 PSI  
REINFORCING STEEL - ASTM A615 GRADE 60.  
SPICES IN REINFORCING, SHALL BE 40 BAR DIAMETERS. NON-CONTACT LAP SPICES MAY BE USED PROVIDED REINFORCING IS NOT SPACED MORE THAN 5" APART FOR #5 BARS.  
FORMWORK AND SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS REACHED AT LEAST 2/3 OF THE REQUIRED 28 DAY STRENGTH.

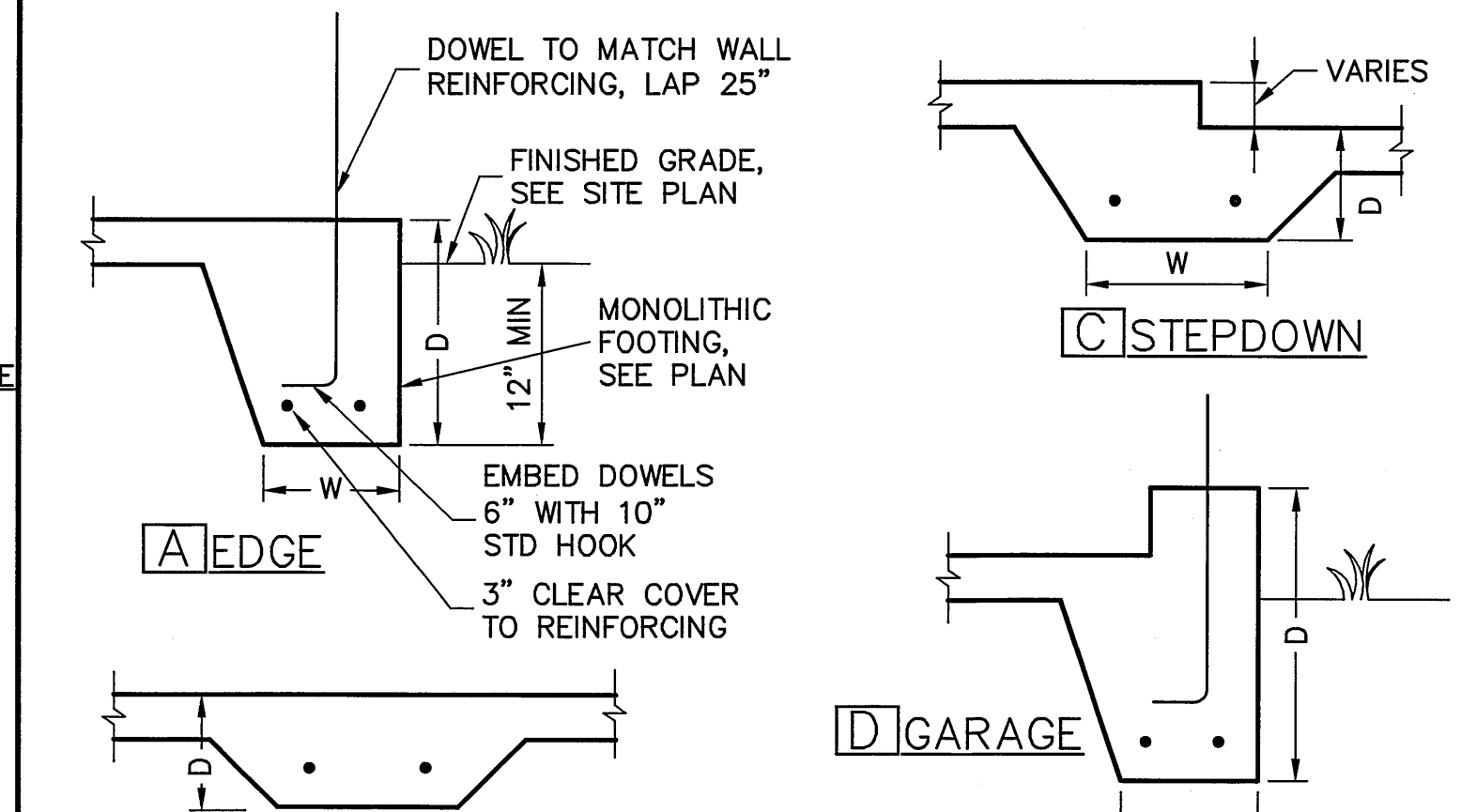
5. DELEGATED-ENGINEERED WOOD ROOF & FLOOR TRUSSES:  
ALL WOOD ROOF AND FLOOR TRUSSES SHALL BE DESIGNED BY A DELEGATED TRUSS ENGINEER PER RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91." FOR OTHER BRACING REQUIREMENTS, NOTIFY ENGINEER. PROVIDE PERMANENT BRACING PER TRUSS MFR. SHOP DRAWINGS. IF PERMANENT BRACING IS NOT SPECIFIED, CONTACT ENGINEER.

6. FOUNDATION:  
CONVENTIONAL SHALLOW CONCRETE FOOTINGS SOIL BEARING CAPACITY 2000 PSF  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL CONDITIONS FOR THE INTENDED STRUCTURE AND ASSUMED SOIL BEARING CAPACITY. IT IS RECOMMENDED THAT A GEOTECHNICAL FIRM BE HIRED TO PERFORM A SITE EVALUATION.
7. DIMENSIONS: VERIFY ALL DIMENSIONS WITH HOUSE PLANS. SEE HOUSE PLANS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
8. MEANS AND METHODS: THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO SUPPORT STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW FOR ALL STRUCTURAL ELEMENTS UTILIZING PREFABRICATED COMPONENTS. ONE SET OF SIGNED & SEALED TRUSS ENGINEERING SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THE STRUCTURE PER FLORIDA ADMINISTRATIVE CODE 61G15-30.005 AND 61G15-31.003.



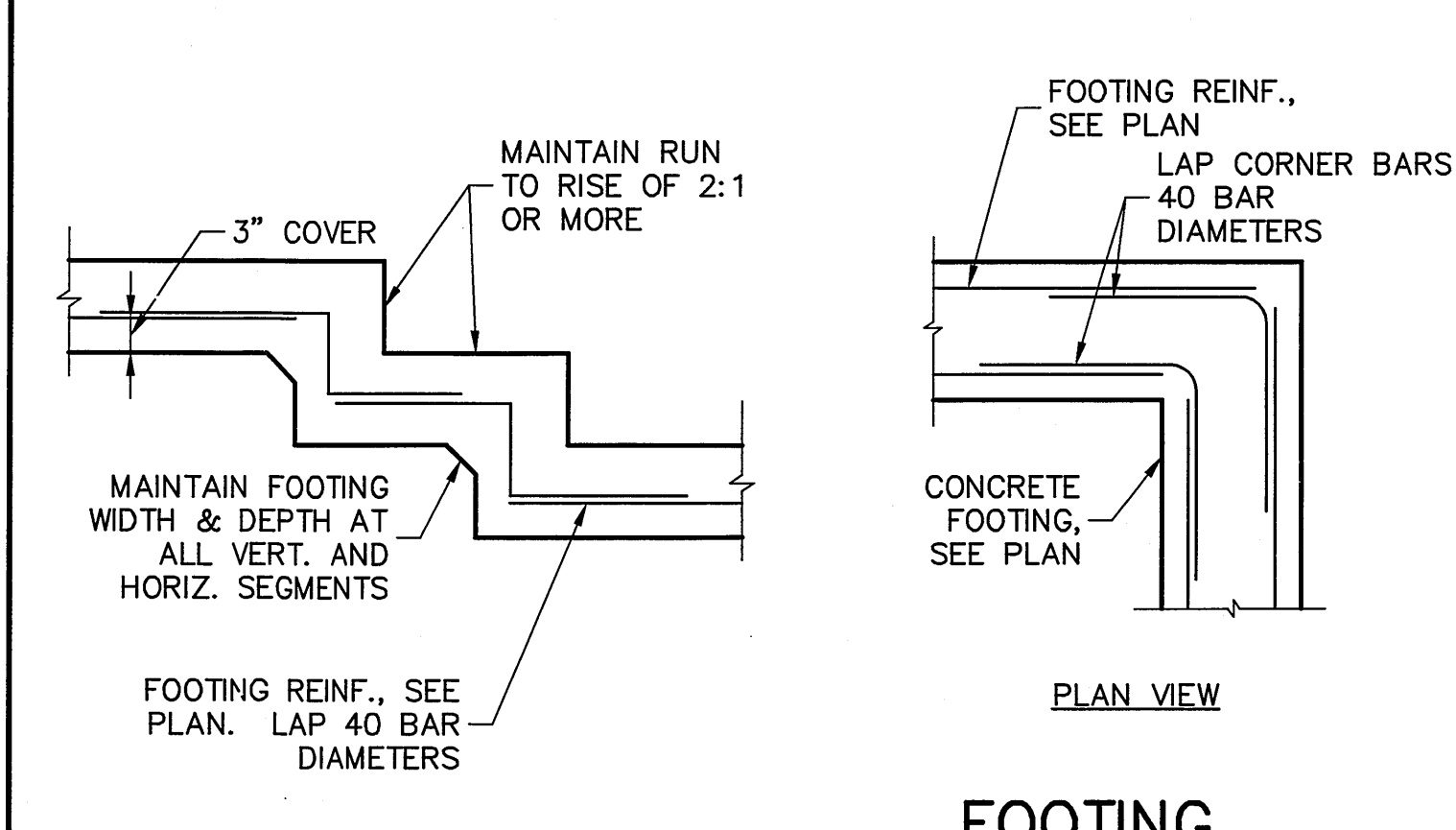
**4 STEMWALL DETAILS**

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



**5 MONOLITHIC FOOTINGS**

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

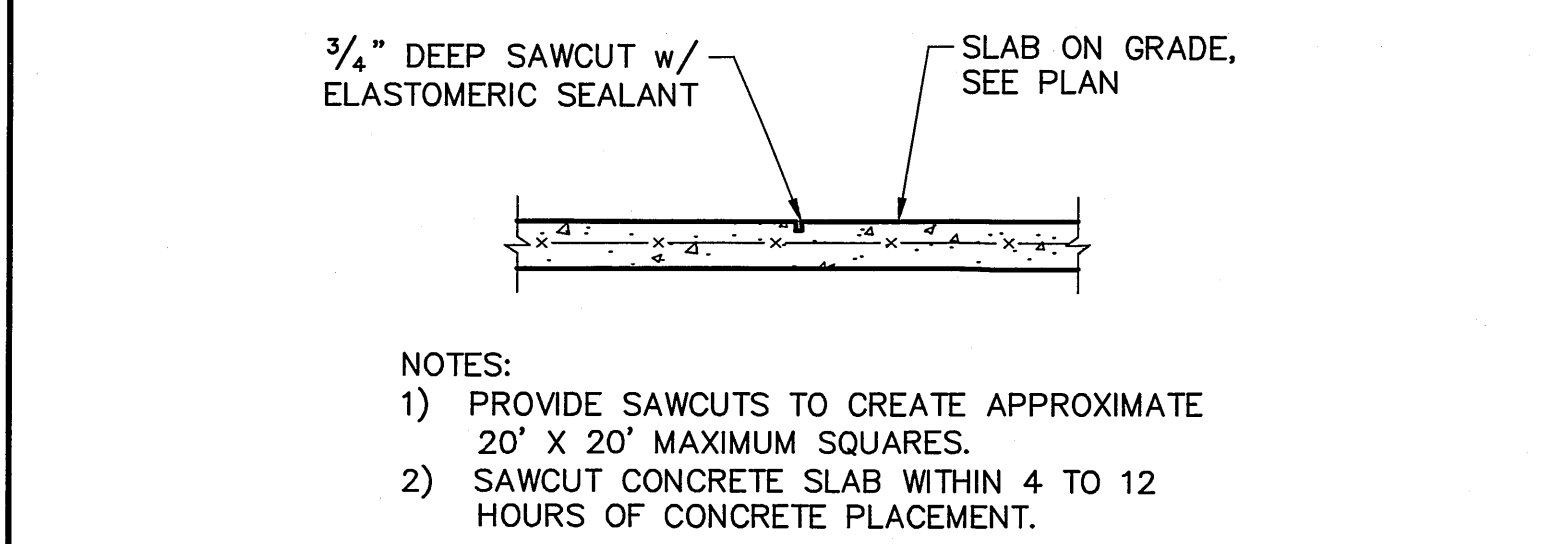


**6 STEP FOOTING**

SCALE: NTS

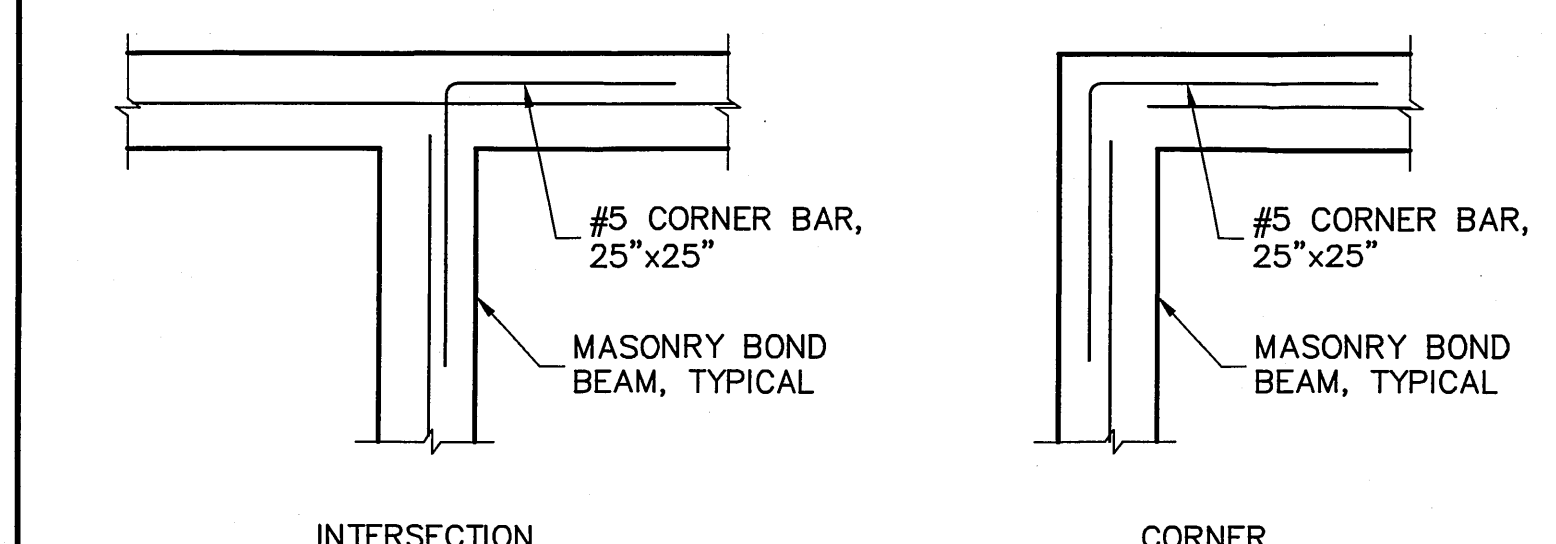
**FOOTING CORNER BARS**

SCALE: NTS



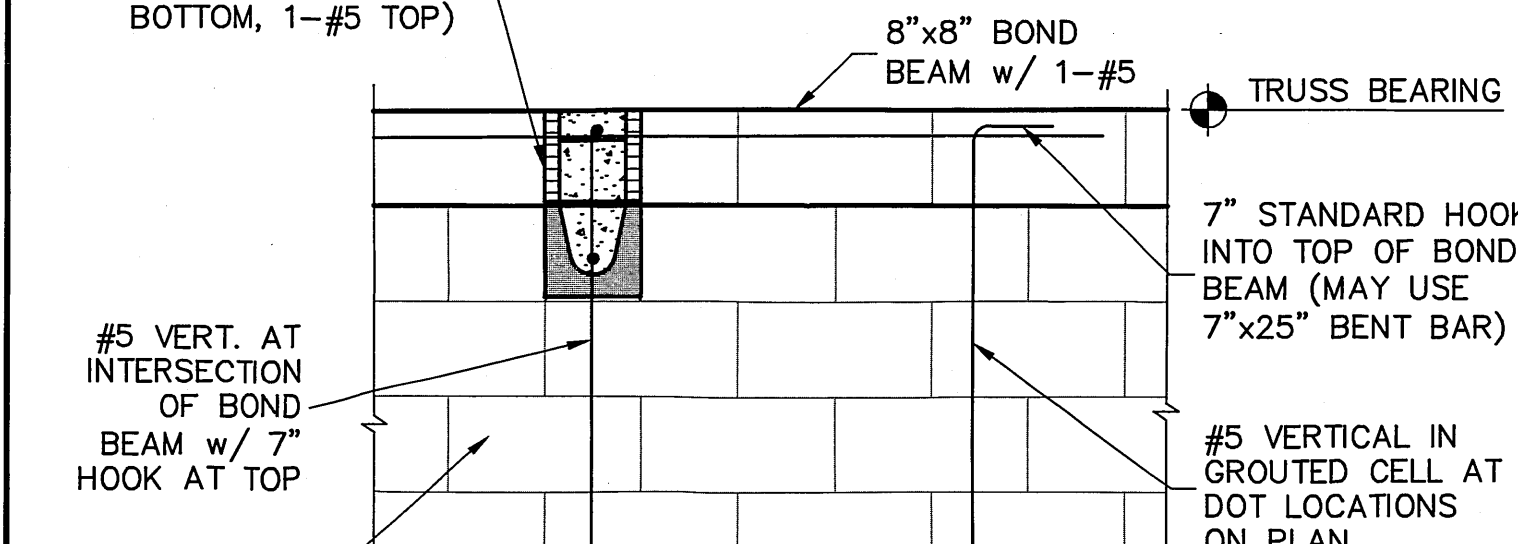
**7 SLAB SAWCUT DETAIL**

SCALE: NTS



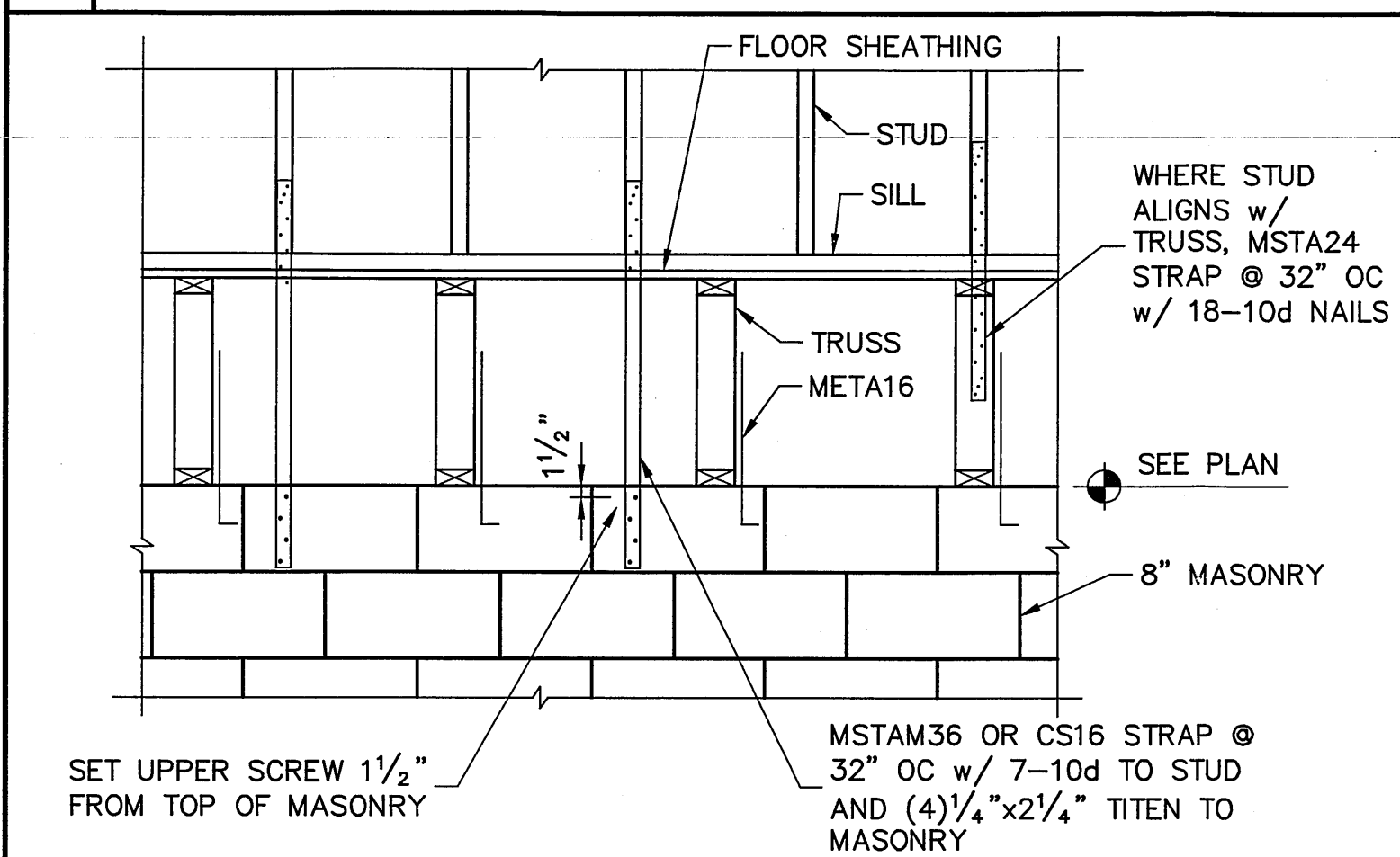
**8 CORNER BAR DETAIL IN BOND BEAMS**

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



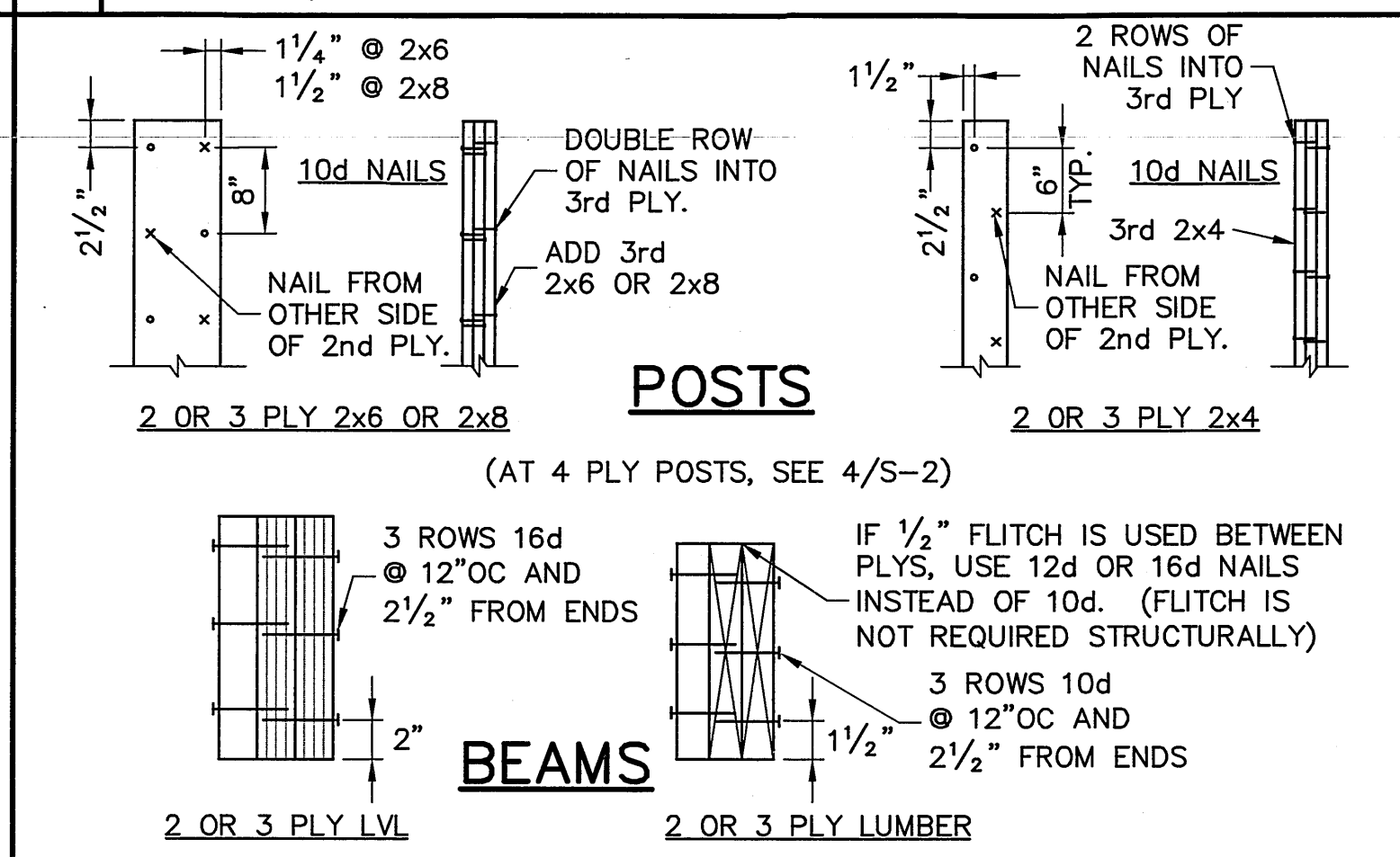
**9 BOND BEAM REINFORCING DETAIL**

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



**10 STRAP UPPER STUDS TO MASONRY WALL**

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



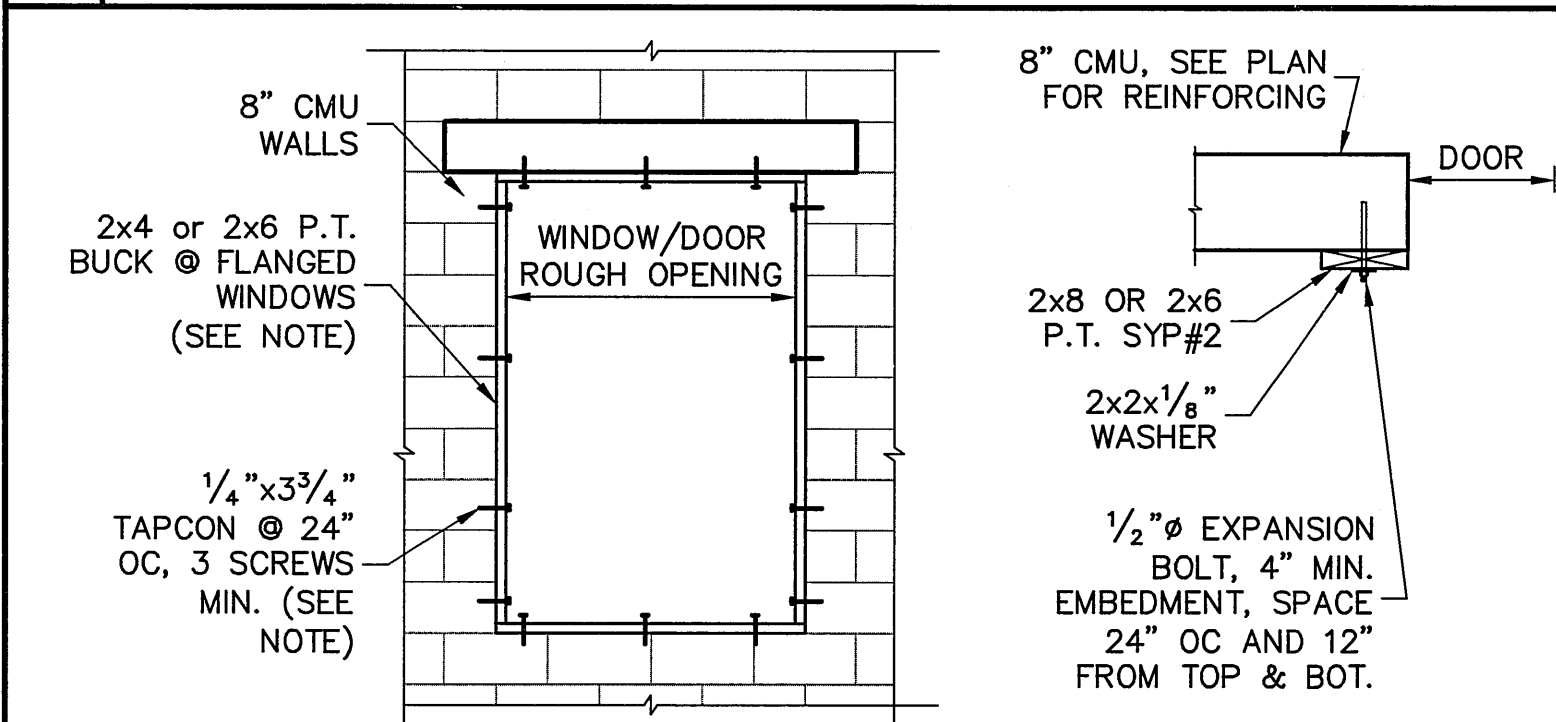
**11 NAILING OF MULTI-PLY POST AND BEAMS**

SCALE: NTS (AT 4 PLY POSTS, SEE 4/S-2)

| RETROFIT STRAPS TO CONCRETE/MASONRY |                |  |
|-------------------------------------|----------------|--|
| TRUSS UPLIFT (LBS) @ 24" OC         | CONNECTOR      |  |
| TO 840                              | 1-MTSM16 or 20 | 7-10dx1 1/2", 4-1/4"x2 1/4" TITEN                                |
| TO 1045                             | 1-HTSM16 or 20 | 8-10dx1 1/2", 4-1/4"x2 1/4" TITEN                                |
| TO 2090                             | 2-HTSM16 or 20 | 8-10dx1 1/2", 4-1/4"x2 1/4" TITEN                                |
| TO 4300                             | 2-LGT2 HTT16   | 16-16d, 7-1/4"x2 1/4" TITEN                                      |
| TO 3480                             |                | 18-16d, 9/16" ALLTHREAD, DRILL & EPOXY 10" EMBED W/ SIMPSON SET. |
| TO 10530                            | HGT-2/3        | TWO 3/4" ALLTHREAD, DRILL & EPOXY 12" EMBED WITH SIMPSON SET.    |

**12 RETROFIT UPLIFT CONNECTOR SCHEDULE**

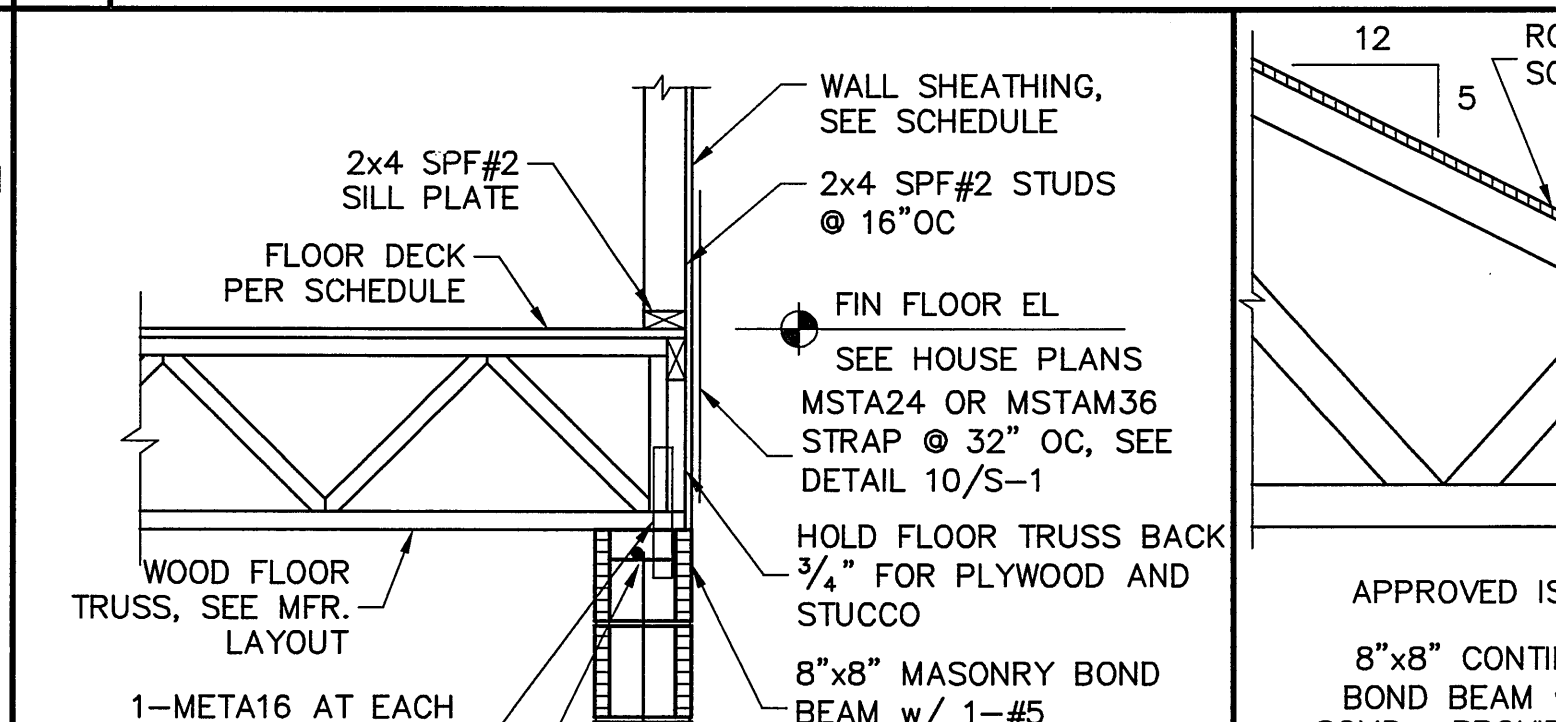
NOTES:  
1) WHERE EMBEDDED STRAP IS MISSING OR MIS-LOCATED, PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE.  
2) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.



**13 BUCK FASTENING**

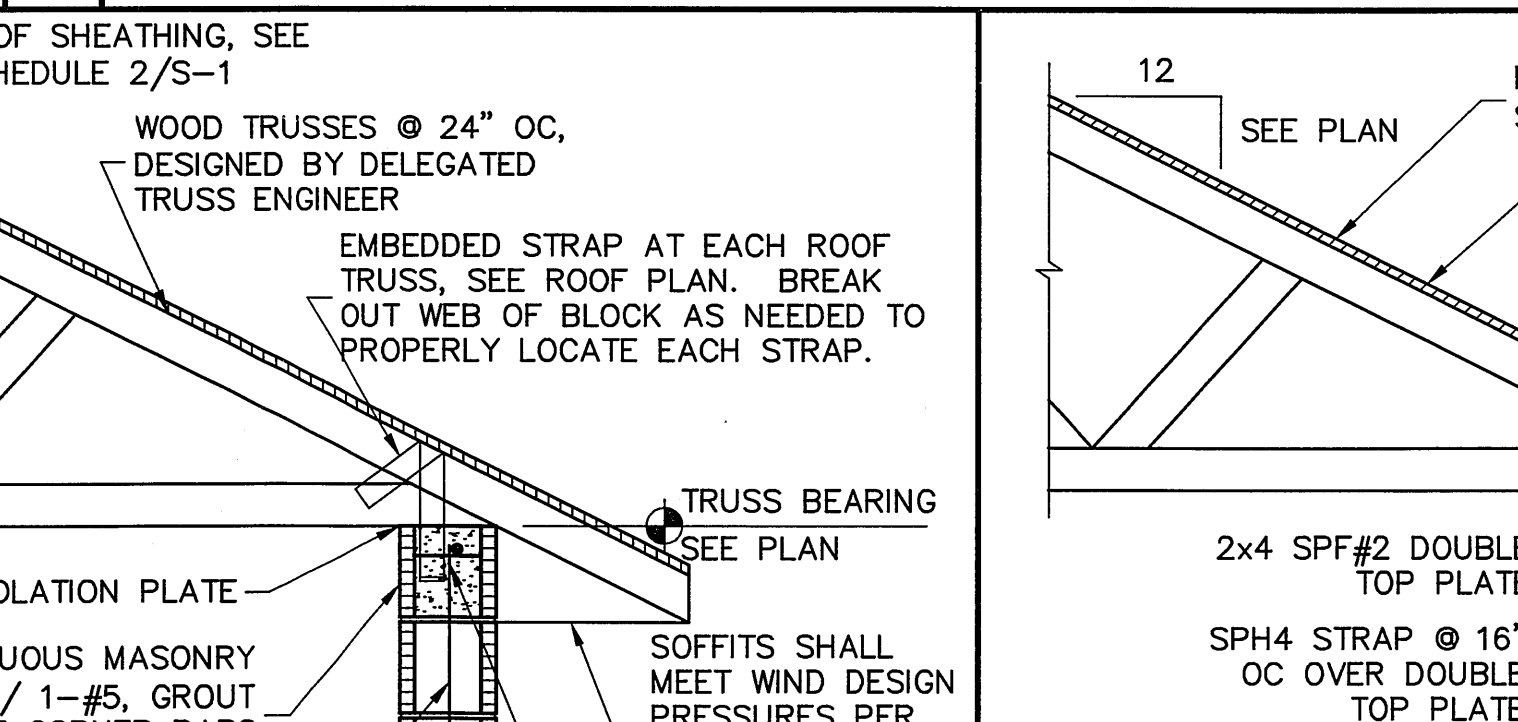
**GARAGE DOOR**

NOTE: THIS BUCK FASTENING DETAIL IS INTENDED FOR FLANGED WINDOW/DOOR PRODUCTS THAT FASTEN THRU THE FLANGE WITH WOOD SCREWS TO THE BUCK. FOR WINDOW/DOOR PRODUCTS THAT DO NOT HAVE A FLANGE AND FASTEN INSTEAD OUTWARD THRU THE FRAME, USE MASONRY SCREWS PER MFR. THAT ARE LONG ENOUGH TO PENETRATE 2-1/4" INTO THE MASONRY. IN THIS CASE, THE BUCK MATERIAL IS SIMPLY A SPACER AND MAY BE 1x4 OR 1x6 OR OMITTED ENTIRELY AND THE SPACER MAY BE TACKED IN PLACE WITH MASONRY NAILS OR PINS.



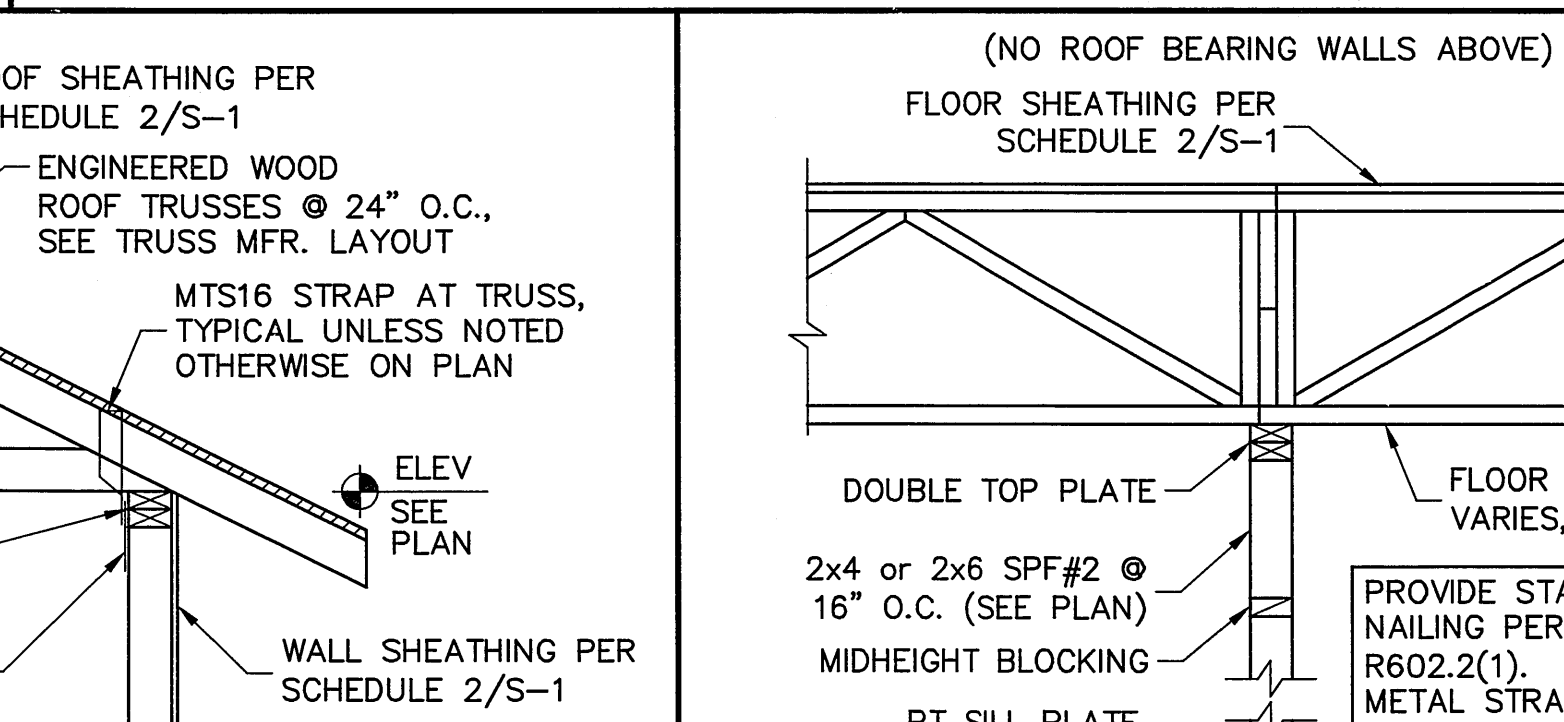
**14 2 STORY WITH FLOOR TRUSS**

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



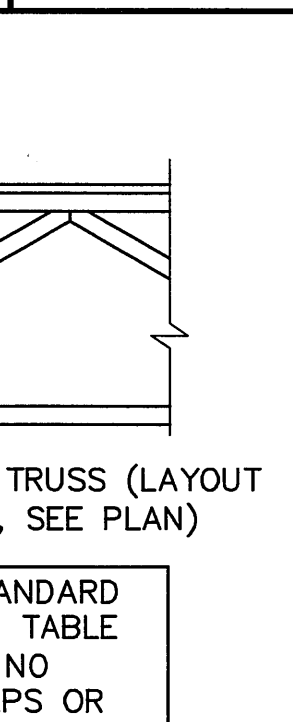
**15 TRUSS STRAP TO BOND BEAM**

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



**16 ROOF TRUSS ON STUD WALL**

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



**17 INTERIOR BEARING (NO UPLIFT)**

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

| REVISIONS | BY |
|-----------|----|
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |

STRUCTURAL ENGINEERING:  
**STRUCTURAL SYSTEMS OF NORTH FLORIDA**  
1834 SE 4TH STREET, SUITE 42  
CAPE CORAL, FL 33904  
(239) 549-4554  
CA# 8829

DEREK BERGER P.E.  
AUG 7 2012  
FL PE #5852

**D.R. HORTON**  
*America's Builder*

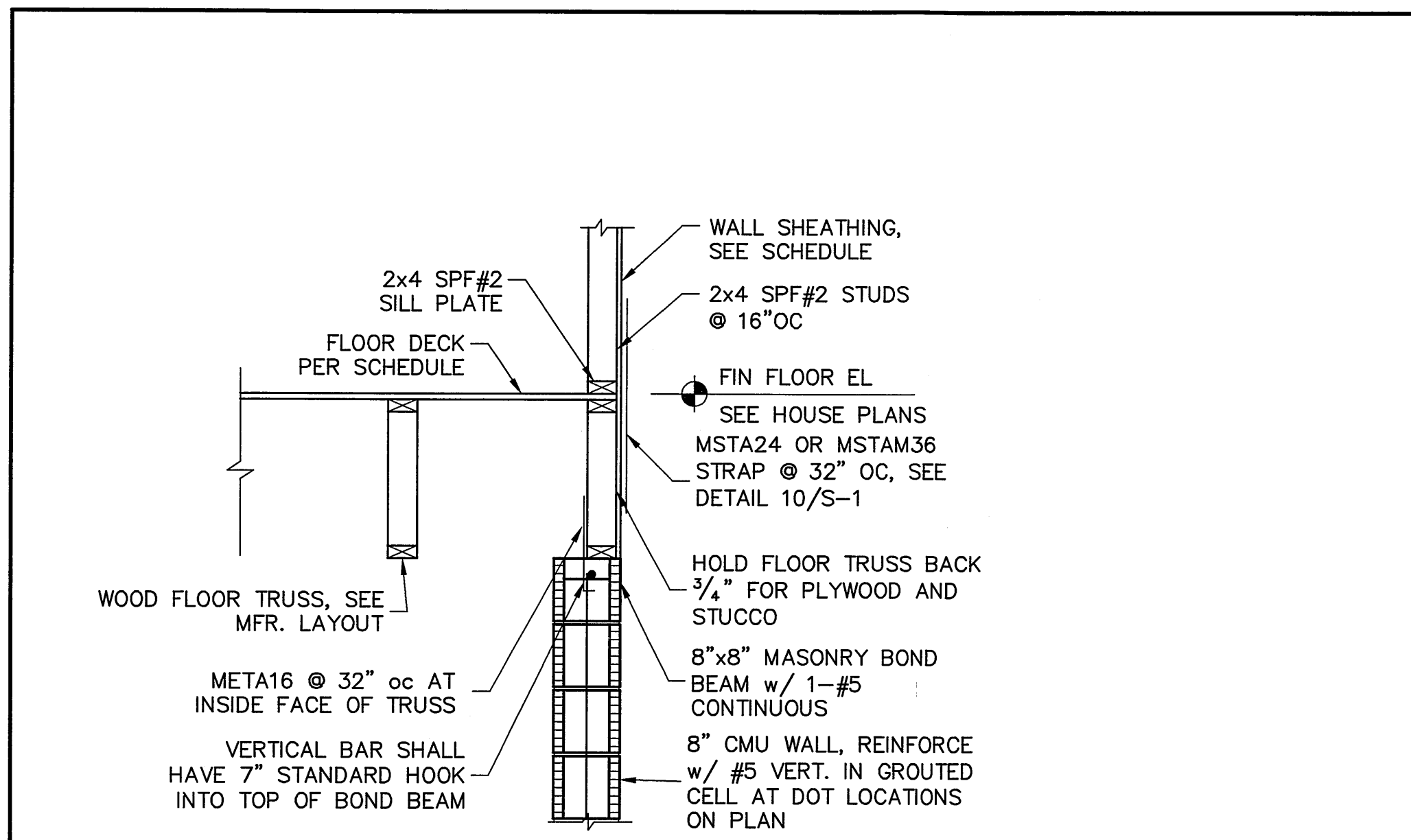
STRUCTURAL DETAILS FOR  
MODEL 2554 A  
7854 BUCKS ROAD DRIVE  
NANFUS, FLORIDA 33903  
LOT: 9 SUBDIVISION: BUCKS' RUN

DESIGN/DRAWN  
DWB/DWB  
CHECKED  
DWB  
DATE  
08/24/12  
SCALE  
AS NOTED  
JOB NO.  
DR2733  
SHEET

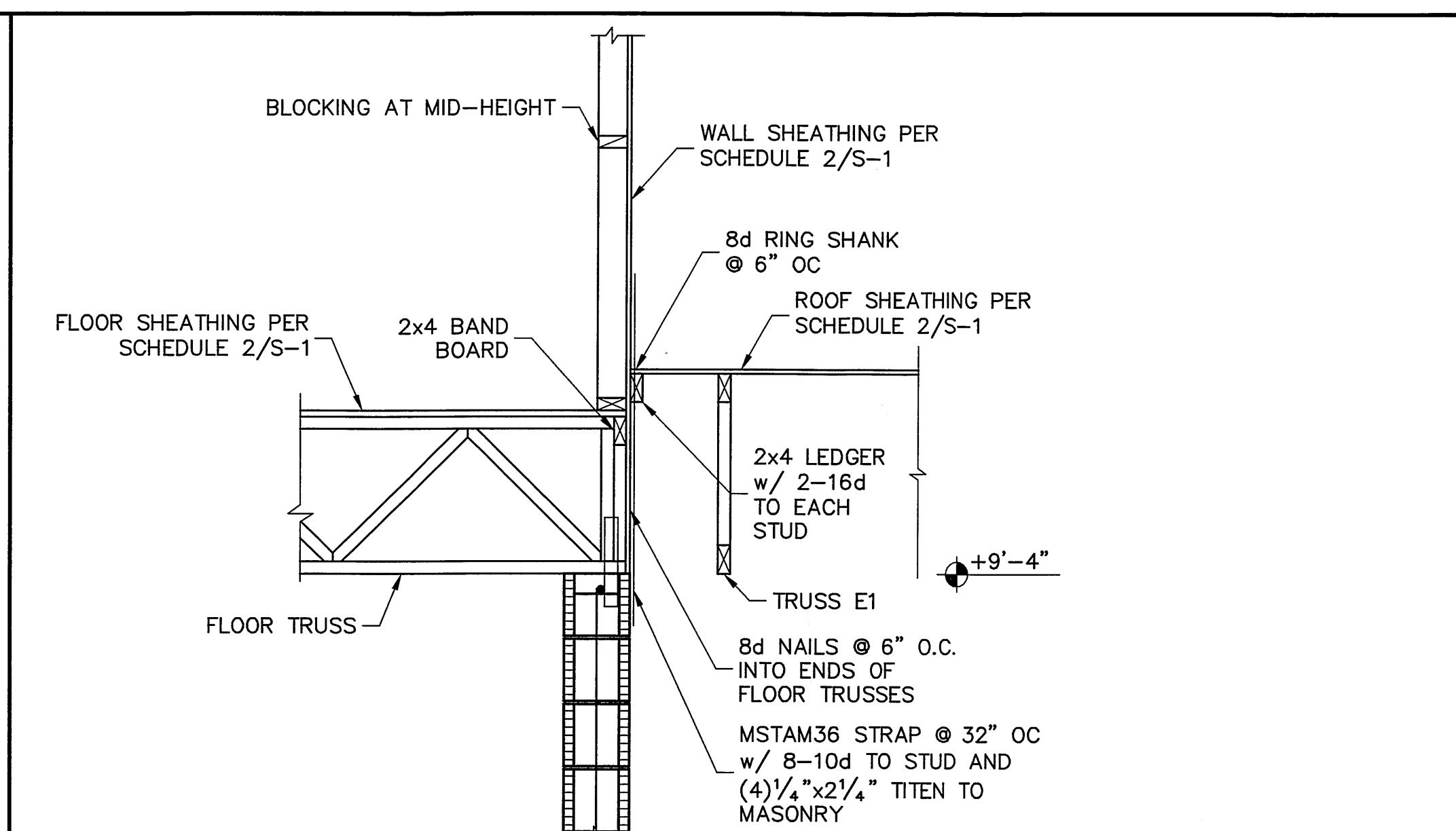
S-1

SHEET 1 OF 2

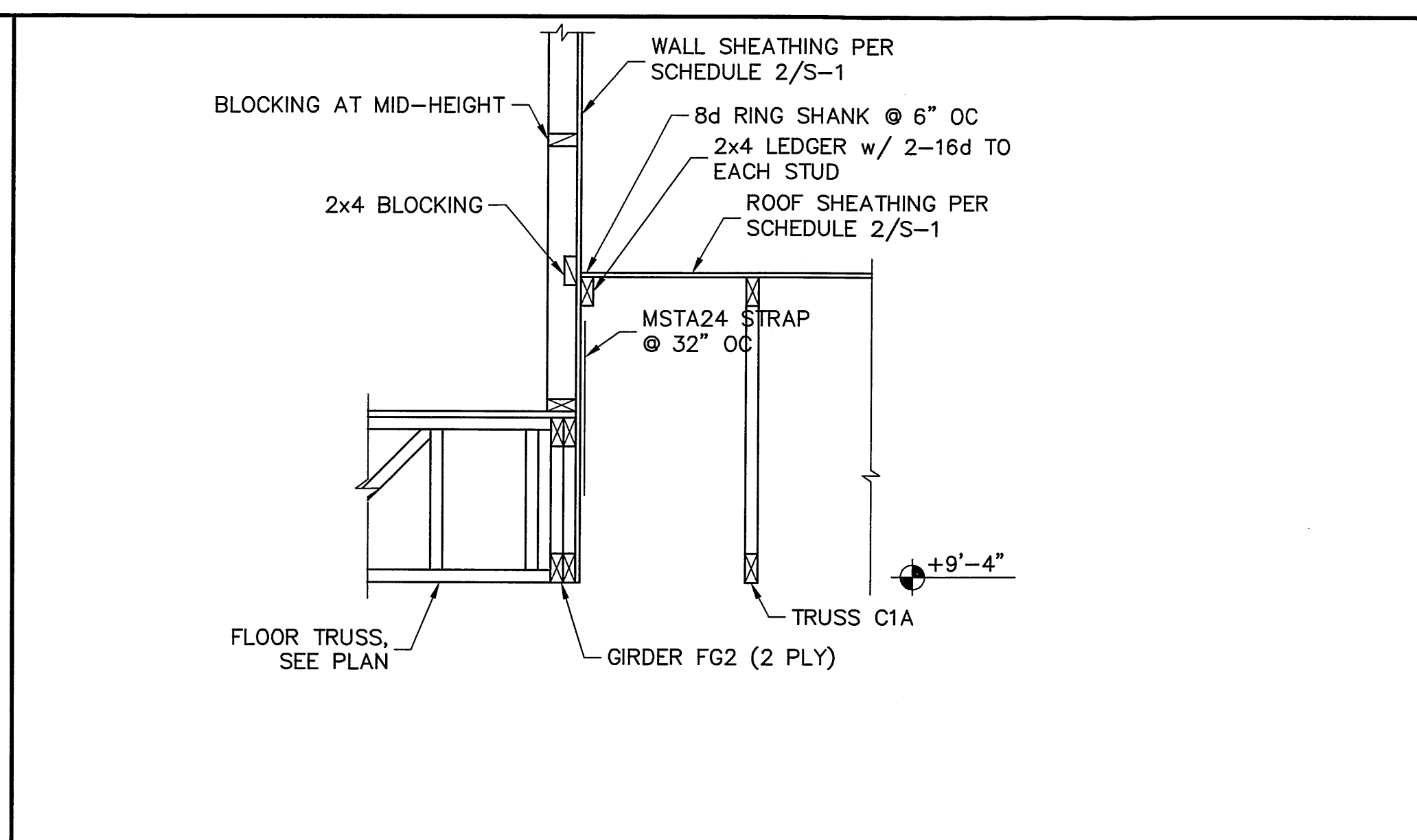




1 **2 STORY WITH FLOOR TRUSS PARALLEL**  
SCALE: 3/4" = 1'-0"



2 **STRAPPING AND BLOCKING DETAIL**  
SCALE: 3/4" = 1'-0"



3 **GIRDERS ABOVE GARAGE**  
SCALE: 3/4" = 1'-0"

| REVISIONS | BY |
|-----------|----|
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |
|           |    |

STRUCTURAL ENGINEERING:  
**STRUCTURAL SYSTEMS OF NORTH FLORIDA**  
1634 S.E. 47th STREET, SUITE #3  
FORT MYERS, FLORIDA 33904  
(239) 549-4554  
CA # B829

DEREK GERGENYER P.E.  
AUG 27 2012  
FL PE #68652



DESIGN PER FLORIDA BUILDING CODE 2010

**STRUCTURAL DETAILS FOR  
MODEL 2554 A**

7851 BUCK'S RUN DRIVE  
NAPLES, FLORIDA 34109  
LOT: 9 SUBDIVISION: BUCK'S RUN

|                         |
|-------------------------|
| DESIGN/DRAWN<br>DWB/DWB |
| CHECKED<br>DWB          |
| DATE<br>08/24/12        |
| SCALE<br>AS NOTED       |
| JOB NO.<br>DR2733       |
| SHEET                   |