

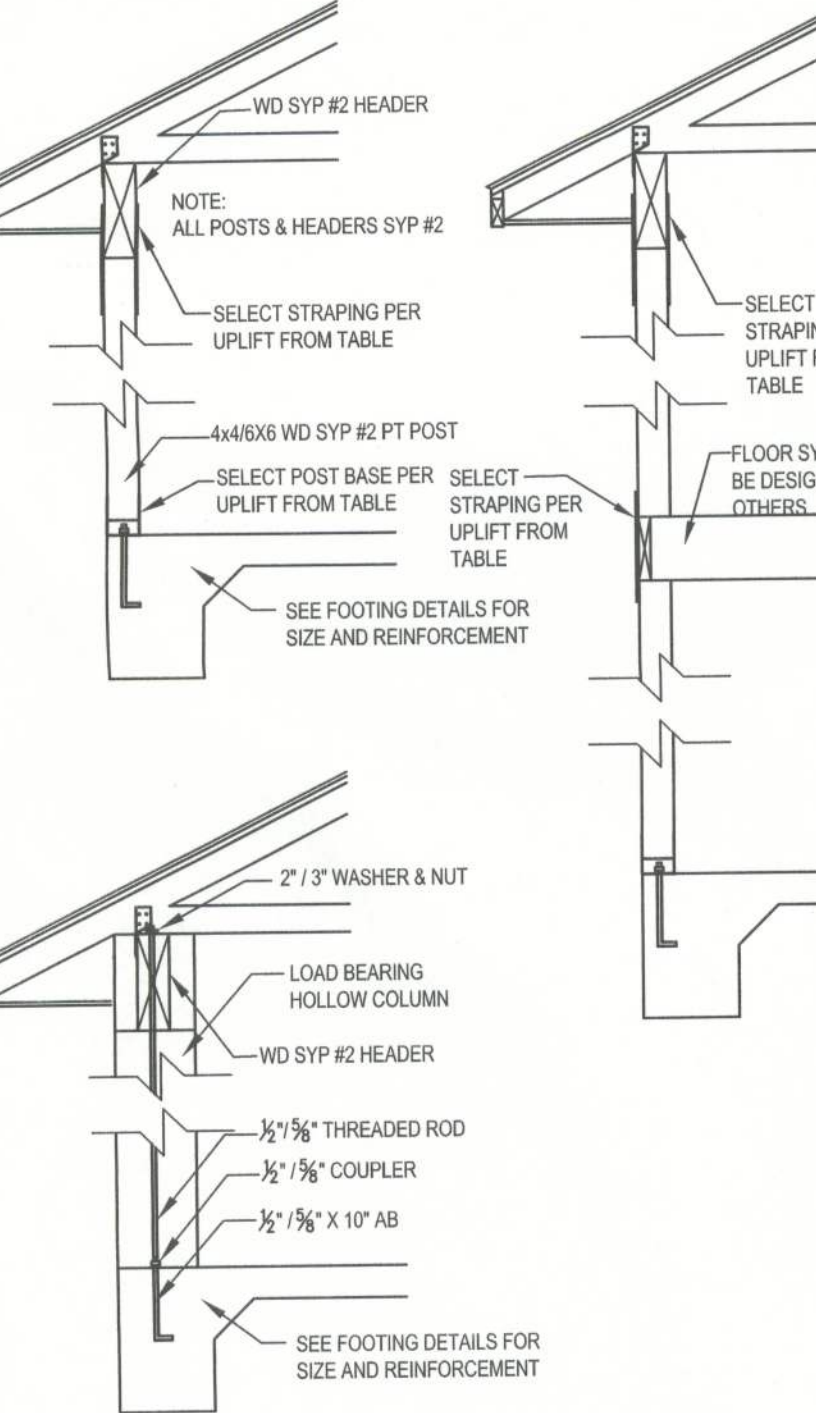
WALL STUD TABLE

Typical Truss Uplift & Max. Wall Height	Anchor Bolt Spacing	SF4 / SF6 Spacing	Alternate Spacing
770 LB	48" O.C.	48" O.C.	NA
950 LB	48" O.C.	32" O.C.	NA
1270 LB	32" O.C.	16" O.C.	32" O.C.
1500 LB	24" O.C.	16" O.C.	16" O.C.
2200 LB	LTT01 W/ 5/8" X 1" WEDGE ANCHOR	NA	(2) HTS20 NAILED TO STUD PACK

NOTE: SP2 TOP & SPT BOTTOM ALTERNATE FOR SF4/6

NOTE: MINIMUM ANCHOR BOLT SPACING FOR WALLS WITH A HEIGHT GREATER THAN 10'-0" AND LESS THAN 14'-0" SHALL BE 32" O.C.

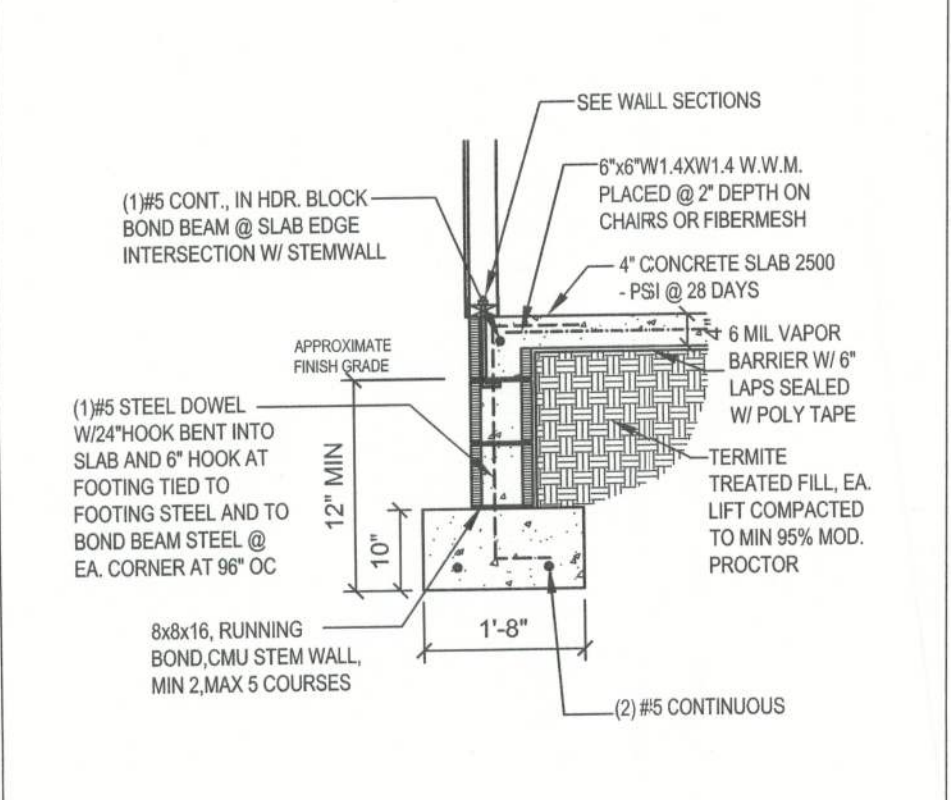
W1 - SINGLE STORY EXT. WALL SECTION
SCALE: 1/2"=1'-0" REV-22-AUG-03



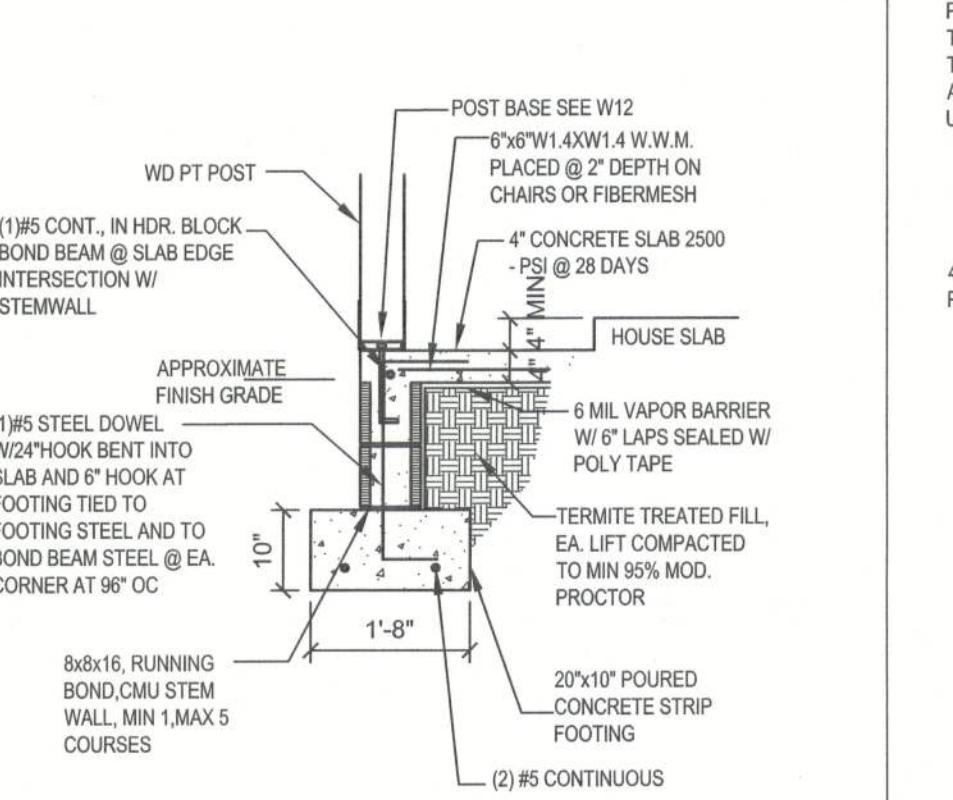
W2 - PORCH HEADER ANCHORS

Typical Truss Uplift	Post Base Anchor	Between Floor Strapping	Header Strapping
550 LB	AB44 W/ (8) 1/2" X 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (8) 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (8) 1/2" ANCHOR BOLTS @ 16" O.C.
730 LB	AB46 W/ (8) 1/2" X 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (8) 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (8) 1/2" ANCHOR BOLTS @ 16" O.C.
2200 LB	AB44 W/ (12) 1/2" X 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (12) 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (12) 1/2" ANCHOR BOLTS @ 16" O.C.
2300 LB	AB46 W/ (12) 1/2" X 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (12) 1/2" ANCHOR BOLTS @ 16" O.C.	(1) LST121 W/ (12) 1/2" ANCHOR BOLTS @ 16" O.C.

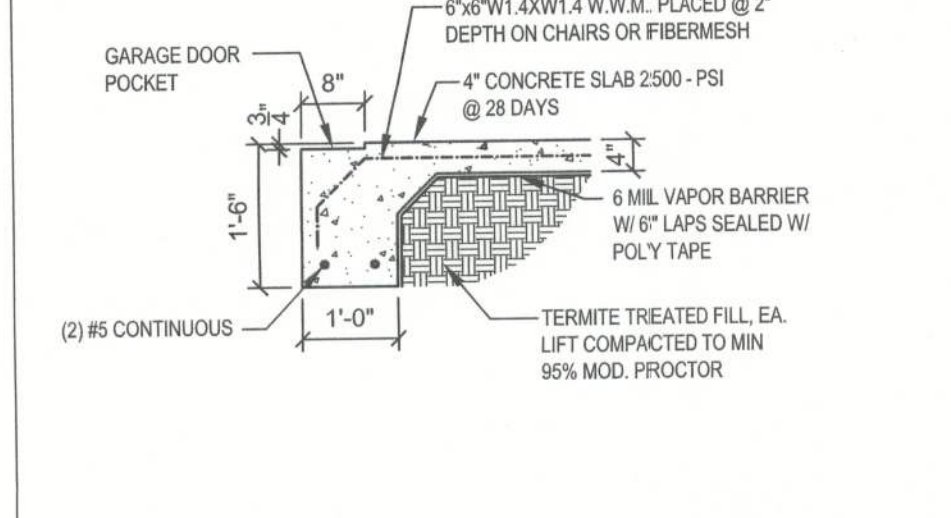
W2 - PORCH HEADER ANCHORS
SCALE: N.T.S. REV-18-JUL-03



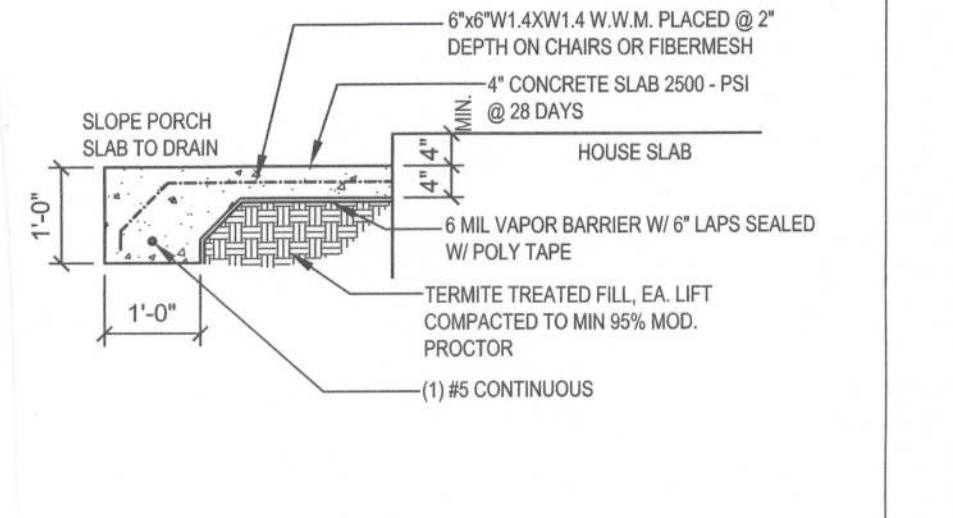
F1 - STEM WALL FOUNDATION
SCALE: 1/2"=1'-0" REV-27-MAY-03



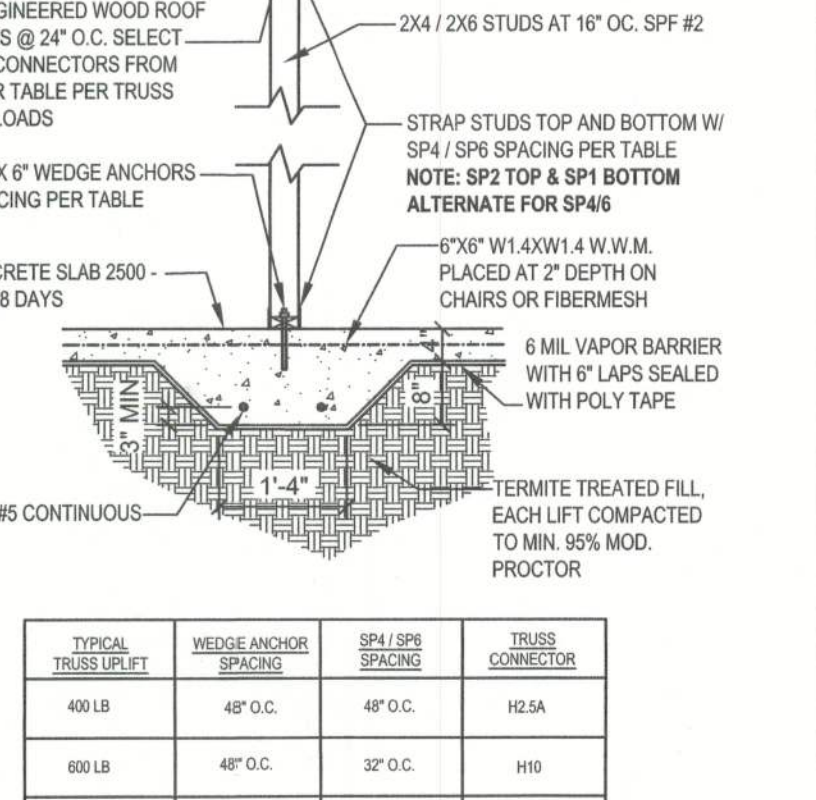
F10 - STEM WALL PORCH FOOTING
SCALE: 1/2"=1'-0" REV-16-MAY-03



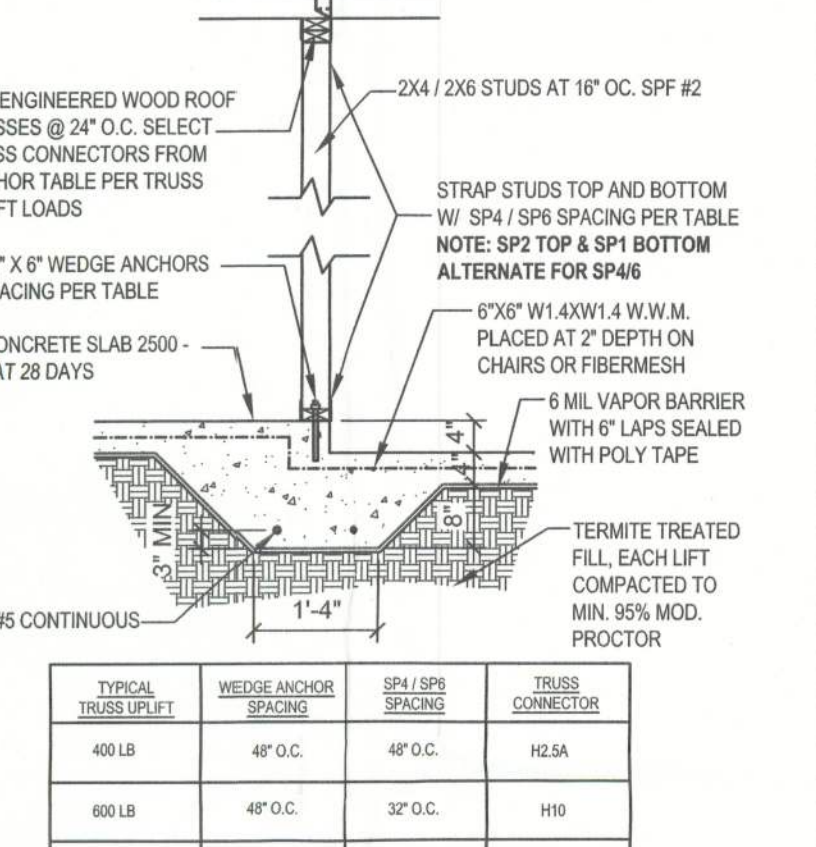
F8 - GARAGE DOOR POCKET
SCALE: 1/2"=1'-0" REV-07-JAN-03



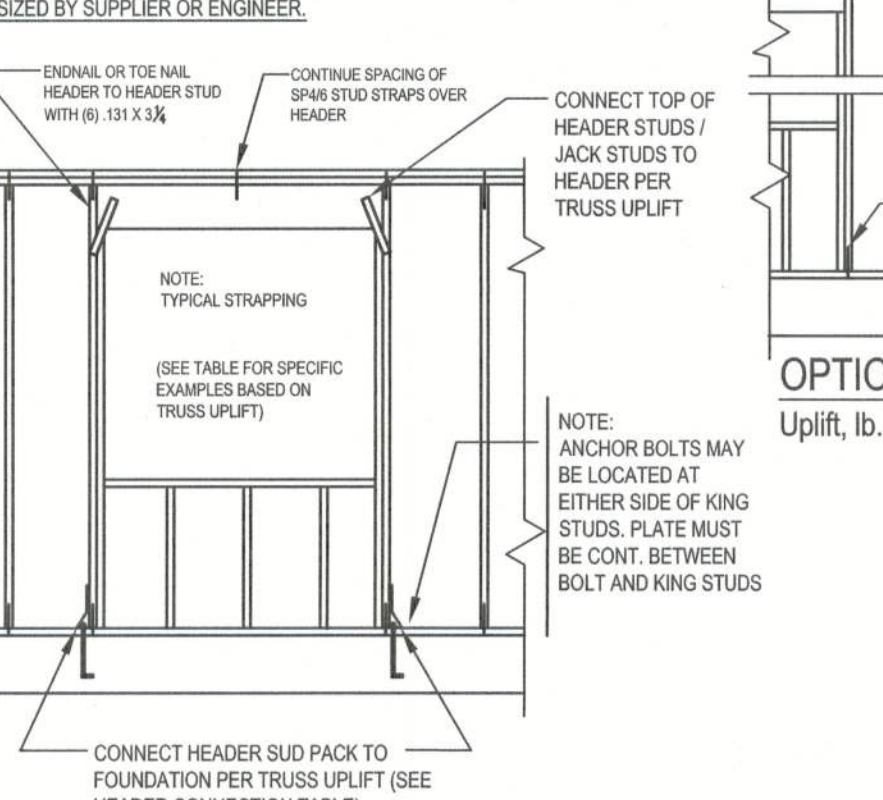
F2 - PORCH SLAB
SCALE: 1/2"=1'-0" REV-22-AUG-03



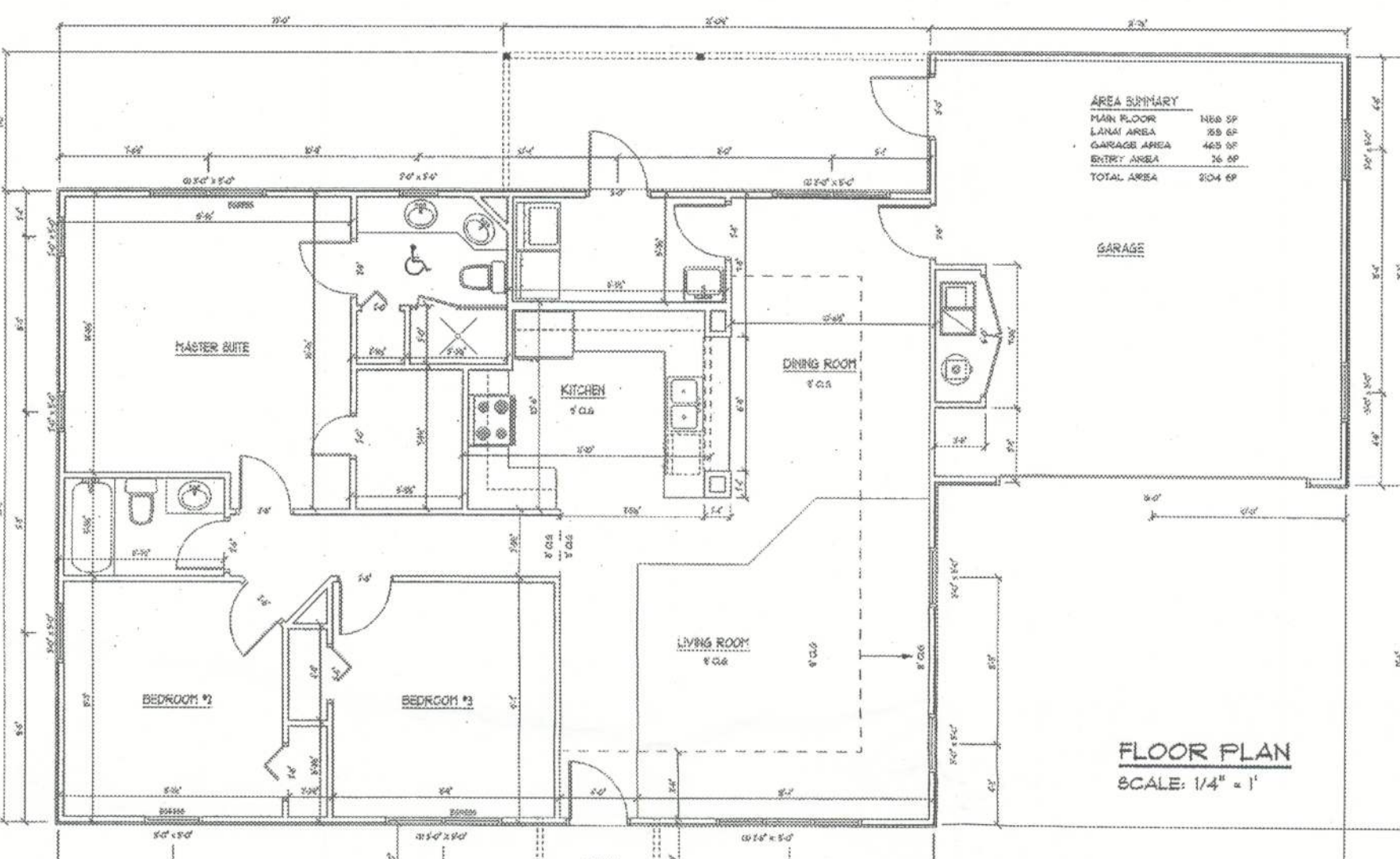
F4 - INTERIOR BEARING FOOTING
SCALE: 1/2"=1'-0" REV-22-AUG-03



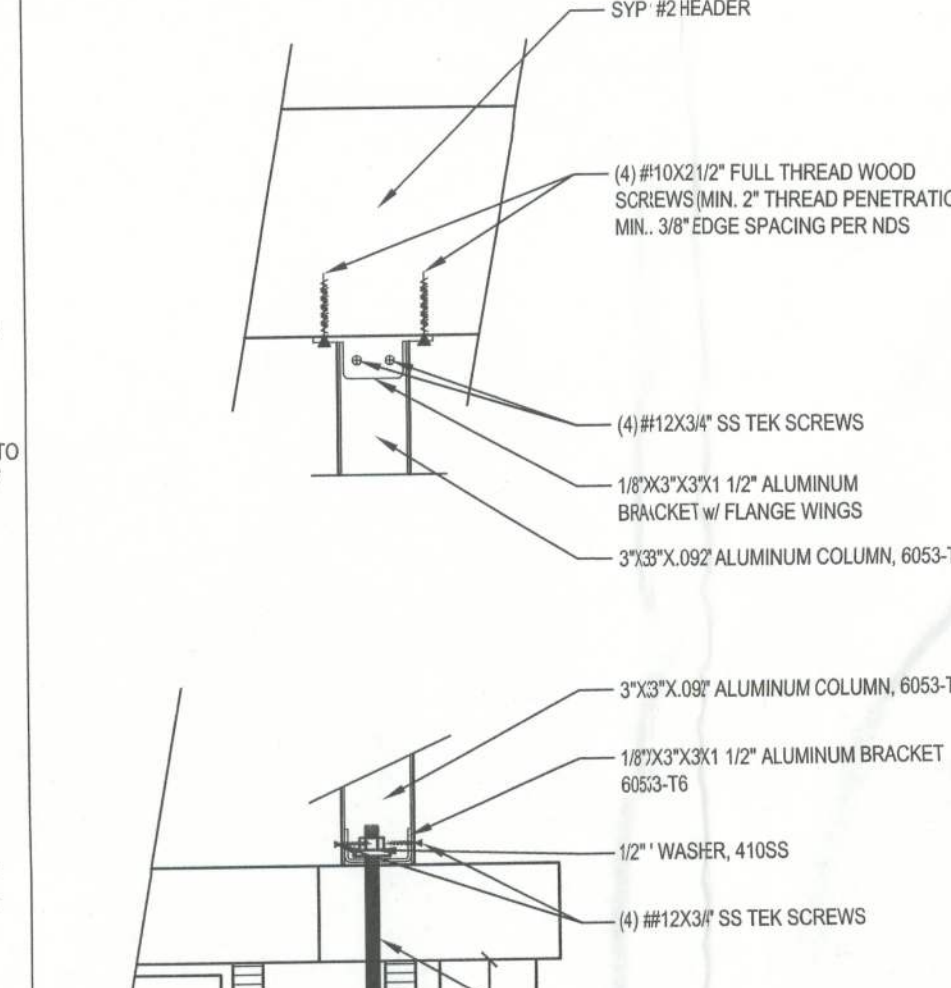
F5 - INTERIOR BEARING STEP FOOTING
SCALE: 1/2"=1'-0" REV-22-AUG-03



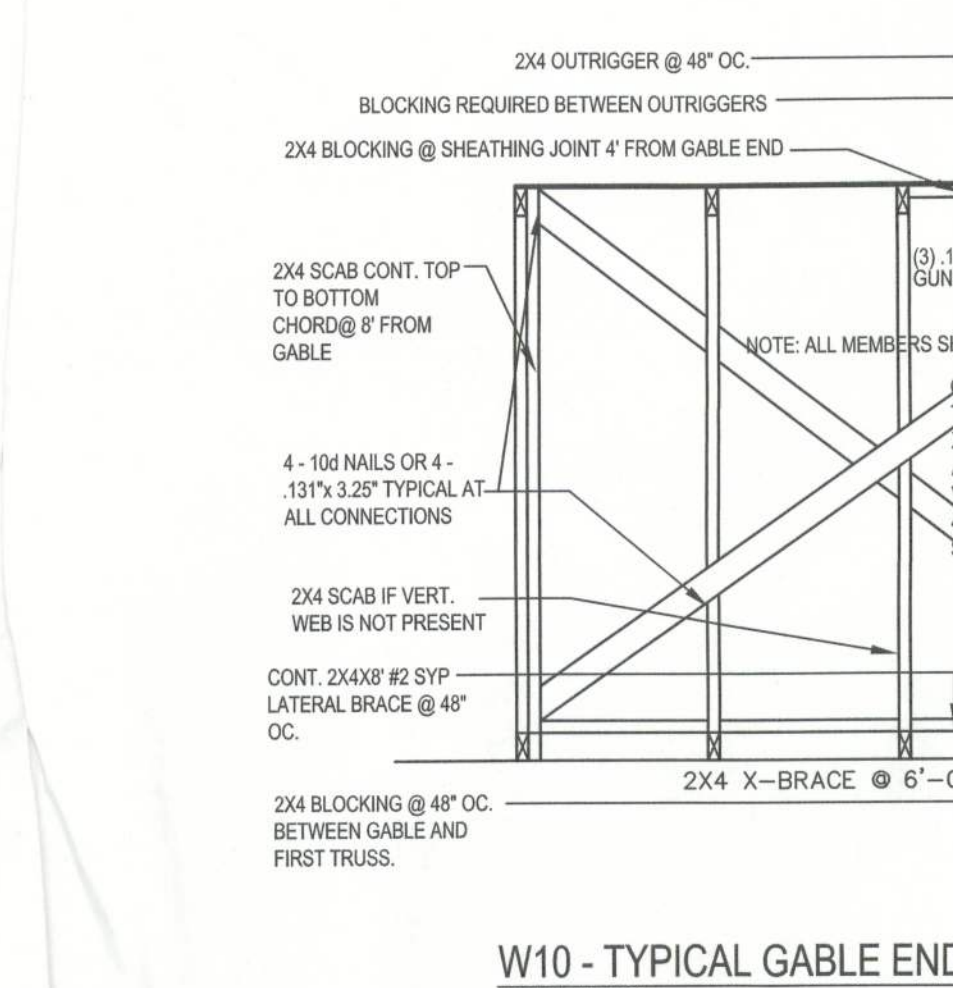
W3 - TYPICAL HEADER SIZING & STRAPING DETAIL
SCALE: N.T.S. REV-22-AUG-03



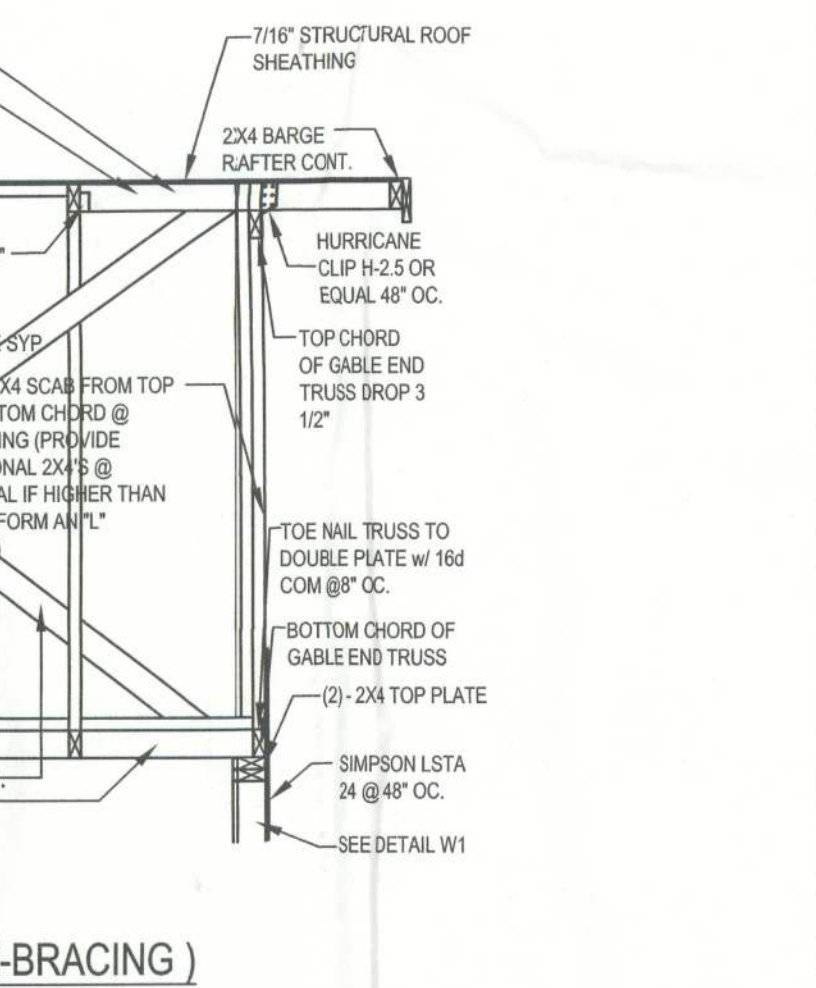
FLOOR PLAN
SCALE: 1/4" = 1'



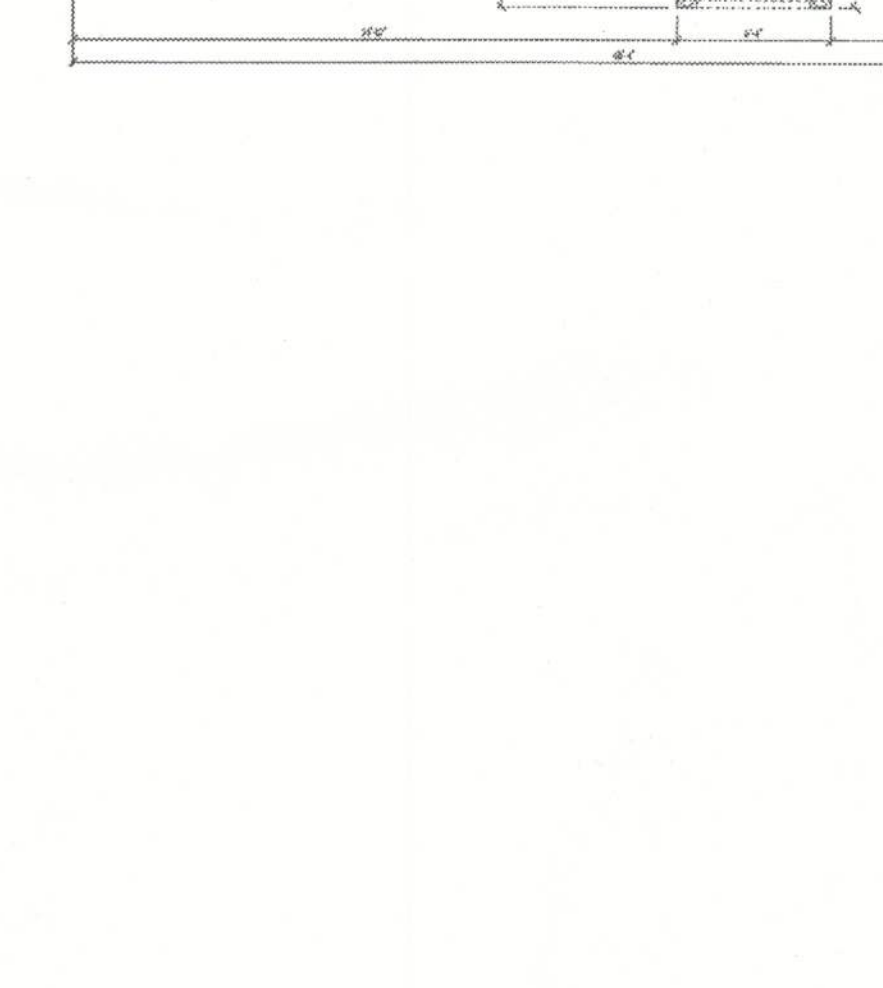
W44 - ALUMINUM PORCH POST & HEADER ANCHORS
SCALE: N.T.S. REV-09-MAY-04



W10 - TYPICAL GABLE END (X-BRACING)
SCALE: 1/2"=1'-0"



W7 - HEADER SPANS FOR ROOF/CEILING LOAD



N5 - TRUSS UPLIFT CONNECTOR TABLE
REV-25-AUG-03



N4 - WIND LOAD DESIGN DATA

Load Bearing Header Sizing Methods (BY BUILDER)

- Determine header size from FBC 2001, Tables 2308.3 A, B, & C, or 2308.5.
- Use supplier published data or Southern pine span tables.
- For engineered lumber beams have suppliers engineer size beam.
- Lookup jack studs from FBC 2001, Tables 2308.3 A, B, & C, or 2308.5.
- Use one jack stud for every 3000 lb vertical load.
- Total king plus jack studs = studs needed to be there if no opening was there.
- Header Uplift Connectors (BY BUILDER)
- Calculate the uplift at each end of the header by summing the moments of all truss uplifts and dividing by the length of the header.
- Select header connections from table below or refer catalog to connect header to stud (top connector) and stud to foundation (bottom connector).

Option #	Uplift, lb.	Top Connector	Bottom Connector
#1	< 800	End nail or tie nail w/s-13"x3.25"	SP4 6-10x1 1/2" 600
#2	< 1500	LST12 10-10x1 1/2" 755	(2) SP4 6-10x1 1/2" 1380
#3	< 1700	LST18 14-14x1 1/2" 1055	LTT01 15-15x1 1/2" 1750
#4	< 2500	(2) LST18 14-14x1 1/2" 2110	LTT01 15-15x1 1/2" 3715
#5	< 3885	(2) LST18 14-14x1 1/2" 3480	HTT16 18-18x1 1/2" 4175

Uplift greater than 3885 lb requires engineering design.

FBC2001, TABLE 2308.3A
Header Spans For Exterior Bearing Walls Supporting Roof/Ceiling (20psf/20psf)

Header Span (ft)	Building Width / Truss Span (ft)		
	Span	NJ	Span
2-2x4	3.2	1.3	2.1
2-2x6	5.5	1.4	1.4
2-2x8	6.10	1.5	2.5
2-2x10	8.5	2.7	2.6
2-2x12	9.9	2.8	2.7
3-2x8	8.4	1.7	1.8
3-2x10	10.6	1.9	1.2
3-2x12	13.2	2.1	2.8
4-2x8	9.2	1.4	1.7
4-2x10	11.8	1.6	1.5
4-2x12	14.1	1.2	2.1

NOTES: NJ = Number of Jack Studs required to support each end. Building width is measured perpendicular to the ridge. For widths between those shown, spans may be interpolated. Spans are based on uniform loads on header.

N2-GENERAL NOTES:

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE Fc = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI. WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185. LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: 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 C1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C1116 WHEN REQUESTED BY THE BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT W/M OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 40, DEFORMED BARS, FY = 40 KSI. ALL LAPS SPLICES 40" DB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-95 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 23 INCHES.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE. NOT EXHAUSTIVE. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURE CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; NO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

WINDLOAD ENGINEERING

"EVERYTHING YOU NEED FOR YOUR BUILDING PERMIT"

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Location: Lot 15 Wise Estates S/D Columbia County, Florida

The Thomas
Lot 15 Wise Estates S/D

Builder: Ewpl, Inc.

Designer: DDS

Approved: PLEPERS3915

Revisions:

Sheet S-1 of 2 Sheets

Windload Engineering

Job # 509196

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