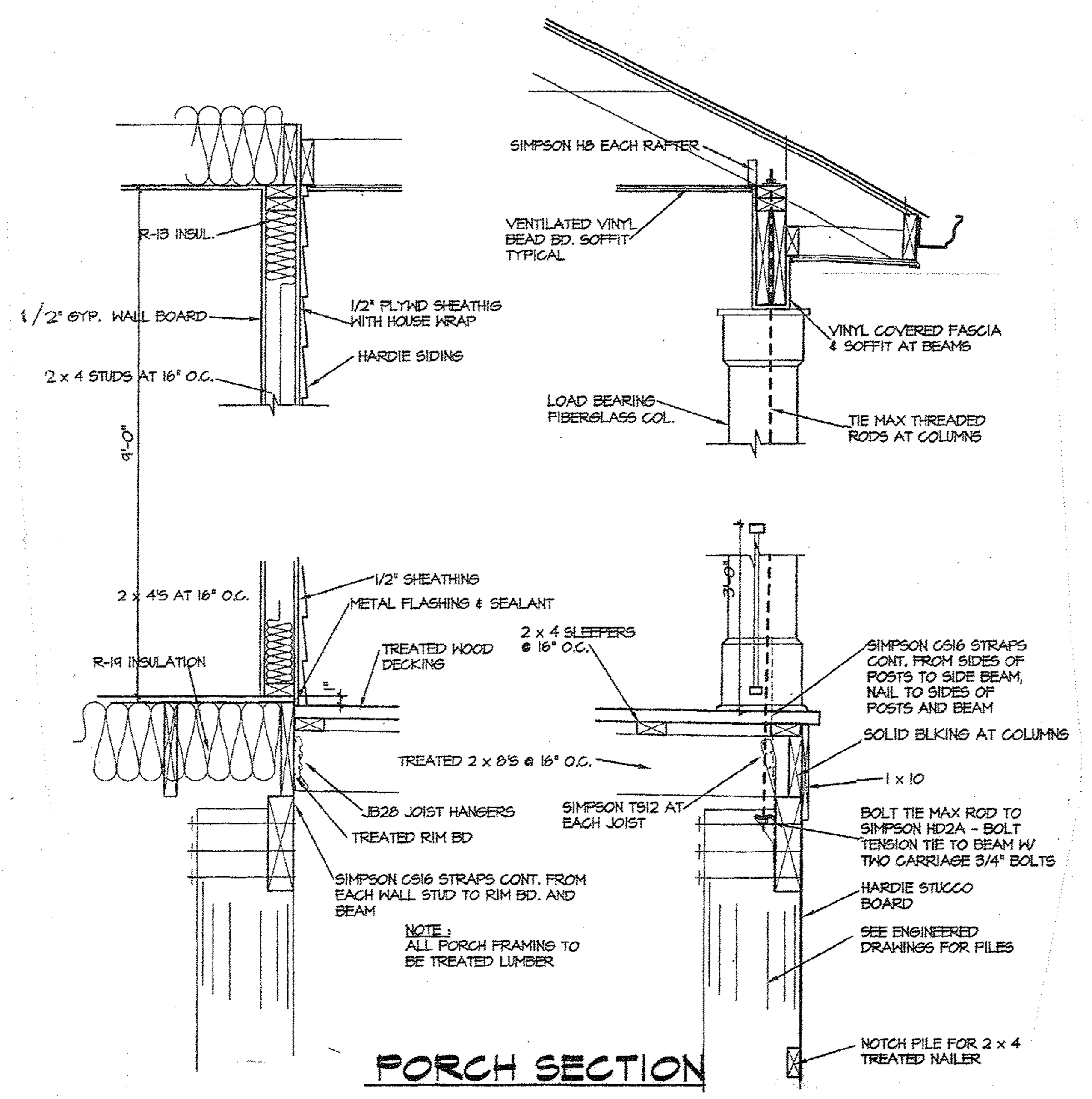
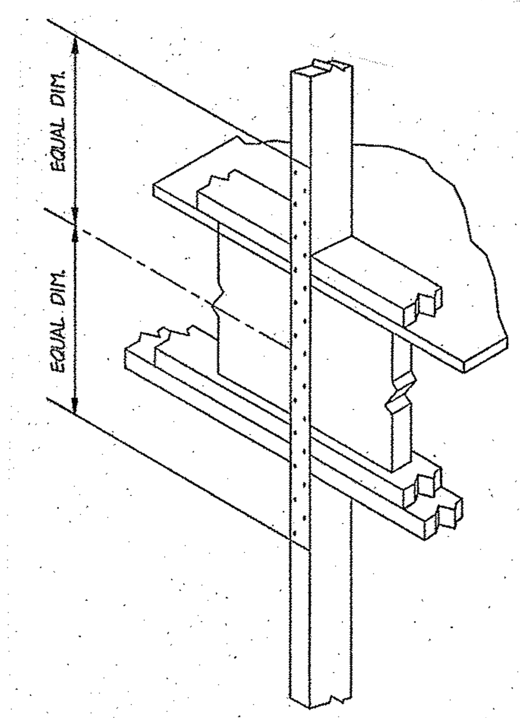


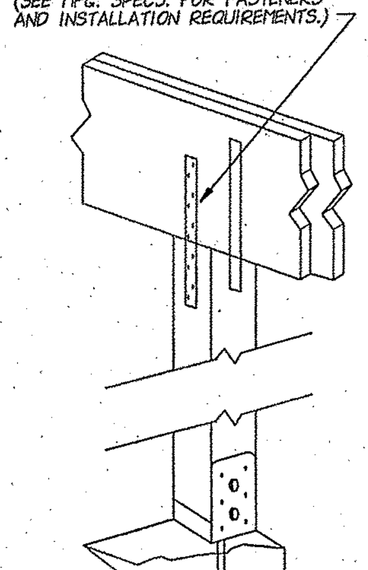
PORCH SECTION



SIMPSON STRONG–TIE #MSTA36 OR U.S.P. EQUAL
(SEE MFG. SPECS. FOR FASTENERS AND INSTALLATION REQUIREMENTS.)
STRAP REQ'D AT EVERY STUD

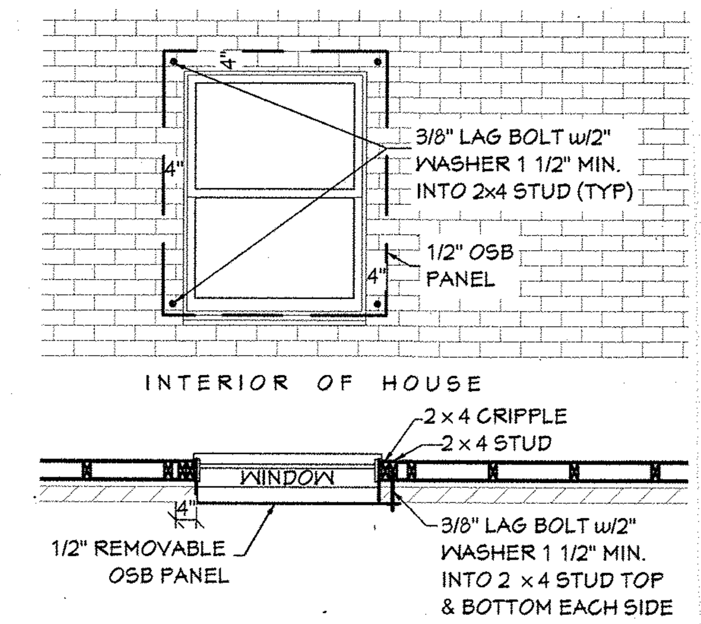
STUD TO STUD DETAIL

SIMPSON STRONG–TIE LSTA21 OR U.S.P. EQUAL BOTH SIDES OF BEAM (SEE MFG. SPECS. FOR FASTENERS AND INSTALLATION REQUIREMENTS.)



SIMPSON STRONG–TIE ABU44 (4X4); ABU66 (6X6) OR U.S.P. EQUAL
(SEE MFG. SPECS. FOR FASTENERS AND INSTALLATION REQUIREMENTS.)

TYP. POST BASE



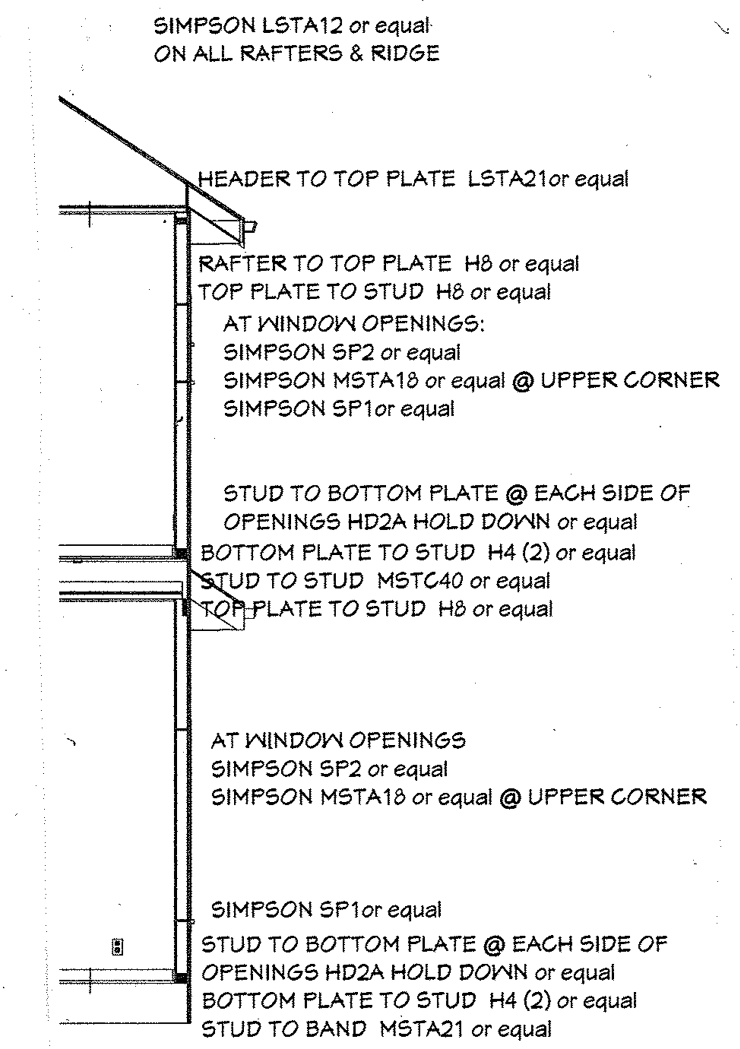
WINBOURNE DEBRIS PROTECTION PANEL

* WINDOWS IN BUILDINGS LOCATED IN THE WINDBORNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WINDBORNE DEBRIS OR THE BUILDING SHALL BE DESIGNED AS A PARTIALLY ENCLOSED BUILDING IN ACCORDANCE WITH THE IRC. GLAZED OPENING PROTECTION FOR WINDBORNE DEBRIS SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E 1996 AND OF ASTM E 1886 REFERENCED THEREIN (PER IRC 2012 R301.2.1.2)

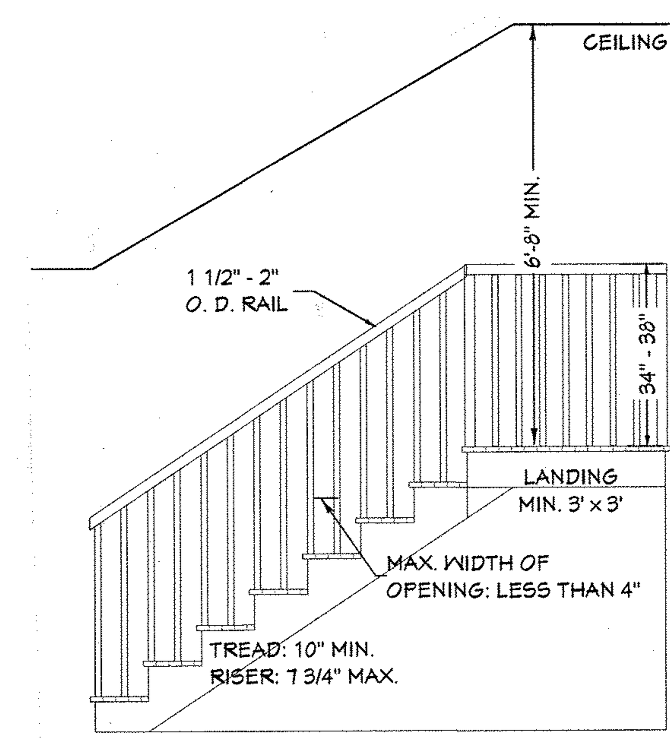
SHUTTERS SHALL BE IN ACCORDANCE WITH TABLE R301.2.1.2

FASTENER TYPE	FASTENER SPACING: PANEL SPAN < 4 FOOT	4 FOOT < PANEL SPAN ≤ 6 FOOT	6 FOOT < PANEL SPAN ≤ 8 FOOT
2 1/2" #6 WOOD SCREWS	16"	12"	9"
2 1/2" #8 WOOD SCREWS	16"	16"	12"

THIS TABLE IS BASED ON 130 mph WIND SPEEDS AND 33 FOOT MEAN ROOF HEIGHT
FASTENERS SHALL BE INSTALLED AT OPPOSING ENDS OF THE WOOD STRUCTURAL PANEL
WHERE SCREWS ARE ATTACHED TO MASONRY/STUCCO, THEY SHALL BE ATTACHED
UTILIZING VIBRATION RESISTANT ANCHORS HAVING A MINIMUM ULTIMATE WITHDRAWAL



TYPICAL WALL SECTION



NOTE:
MINIMUM WIDTH FOR ENCLOSED STAIR IS 36". HANDRAIL SHALL BE MOUNTED 1 1/2" FROM THE WALL. FOR FEWER THAN 2 RISERS THE MIN. TREAD IS 13" AND THE MAX. RISER IS 6". GUARDRAILS ARE REQUIRED ON ALL PORCHES 30" OR MORE ABOVE GRADE.

STAIR DETAIL

GENERAL NOTES:

1. ALL WORK MUST MEET 2015 IRC, DESIGN CRITERIA USED IS ASCE-7, WIND SPEED DESIGN IS 130 MPH.
2. PRIOR TO CONSTRUCTION, IT IA THE BUILDER'S RESPONSIBILITY TO CHECK ALL PLAN DIMENSIONS AND DETAILS FOR OVERALL ACCURACY APPROPRIATE TO THE SITE AND THE FINAL SELECTION OF MASONRY, FLOOR JOISTS, LUMBER, STRUCTURAL MEMBERS, VENEER, ROOFING, ETC. ALL WHICH COULD CREATE REVISED DIMENSIONS AND DETAILS. FOR EXAMPLE: USE OF FABRICATED FLOOR JOISTS IN LIEU OF STANDARD LUMBER COULD INCREASE THE FLOOR-TO-FLOOR DIMENSIONS AND WOULD REQUIRE REVISED STAIRWAY, DIMENSIONS AND FRAMING.
3. FINAL SELECTION OF MATERIALS TO BE USED IS THE RESPONSIBILITY OF THE HOME OWNER AND/OR BUILDER, INCLUDING, BUT NOT LIMITED TO PROPER INSTALLATION OF MATERIALS, NAILING, GLUING, CALKING, INSULATION, FLASHING, ROOFING, WEATHERPROOFING AND ANY OTHER SMALL OTHER ITEMS NOT INDICATED ON THE FLOOR PLANS.
4. THE INFORMATION CONTAINED WITHIN THESE CONSTRUCTION DOCUMENTS IS ISSUED TO SHOW DESIGN INTENT AD A BASIC FRAMING DETAIL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STANDARD CONSTRUCTION DETAILING AND PRACTICES WHICH WILL PROVIDE STRUCTURALLY SOUND AND WEATHERPROOFED PRODUCT. THE CONTRACTOR SHALL NOTIFY US OF ANY DISCREPANCIES OR PROBLEMS OBSERVED OR PERCEIVED PRIOR TO START OF CONSTRUCTION.
5. REFER TO PLANS AND EXTERIOR ELEVATIONS FOR WINDOW TYPES AND SIZES. COORDINATE WITH OWNER FOR OPERABLE WINDOWS, SWING DIRECTION OF CASEMENTS, ETC.
6. PROVIDE FULL SOLD STUD BEARING UNDER ALL BEAM BEARING POINTS TO SOLID FOUNDATION CONNECTION BELOW.
7. ALL WOOD FRAMING IN CONTACT WITH CONCRETE SHALL BE TREATED.
8. ALL EFFORTS SHALL BE TAKEN TO INSURE A "QUIET" FLOOR SYSTEM (GLUE & SCREW PLYWOOD DECKING).
9. ALL PLUMBING AND MECHANICAL VENTS SHALL BE GROUPED WITHIN THE HOUSE OR ATTIC STRUCTURE WHEN POSSIBLE TO MINIMIZE ROOF PENETRATIONS. ALL PLUMBING AND MECHANICAL VENTS WHICH EXTEND ABOVE THE ROOF SHALL BE LOCATED AWAY FROM PUBLIC VIEW, I.E., NO VENTS ALLOWED ON FRONT ROOF AREA OR VISIBLE FROM CORNER STREETS OR OUTDOOR LIVING AREAS. ALL METAL AND PVC VENTS AND PENETRATIONS SHALL BE PROPERLY PRIMED AND PAINTED TO BLEND INTO THE ROOF COLOR.
10. IF AVAILABLE, PROVIDE GAS SERVICE TO AL REQUIRED EQUIPMENT.
11. COORDINATE LOCATION OF UTILITY METERS WITH SITE PLAN AND LOCATE AWAY FROM PUBLIC VIEW. VISUAL IMPACT OF UTILITY METERS SHALL BE MINIMIZED. I.E. HELD AS LOW AS POSSIBLE.
12. CONTRACTOR SHALL COORDINATE WITH OWNER AND PLANS FOR ALL SHELVING/CLOSET REQUIREMENTS.
13. CONTRACTOR MUST BE FAMILIAR WITH AND ADHERE TO ALL BUILDING CODES AND REQUIREMENTS IN THE AREA WHERE CONSTRUCTION IS TO TAKE PLACE.

HEADER SPANS - EXPOSURE "B"
FOR EXTERIOR LOAD BEARING WALLS

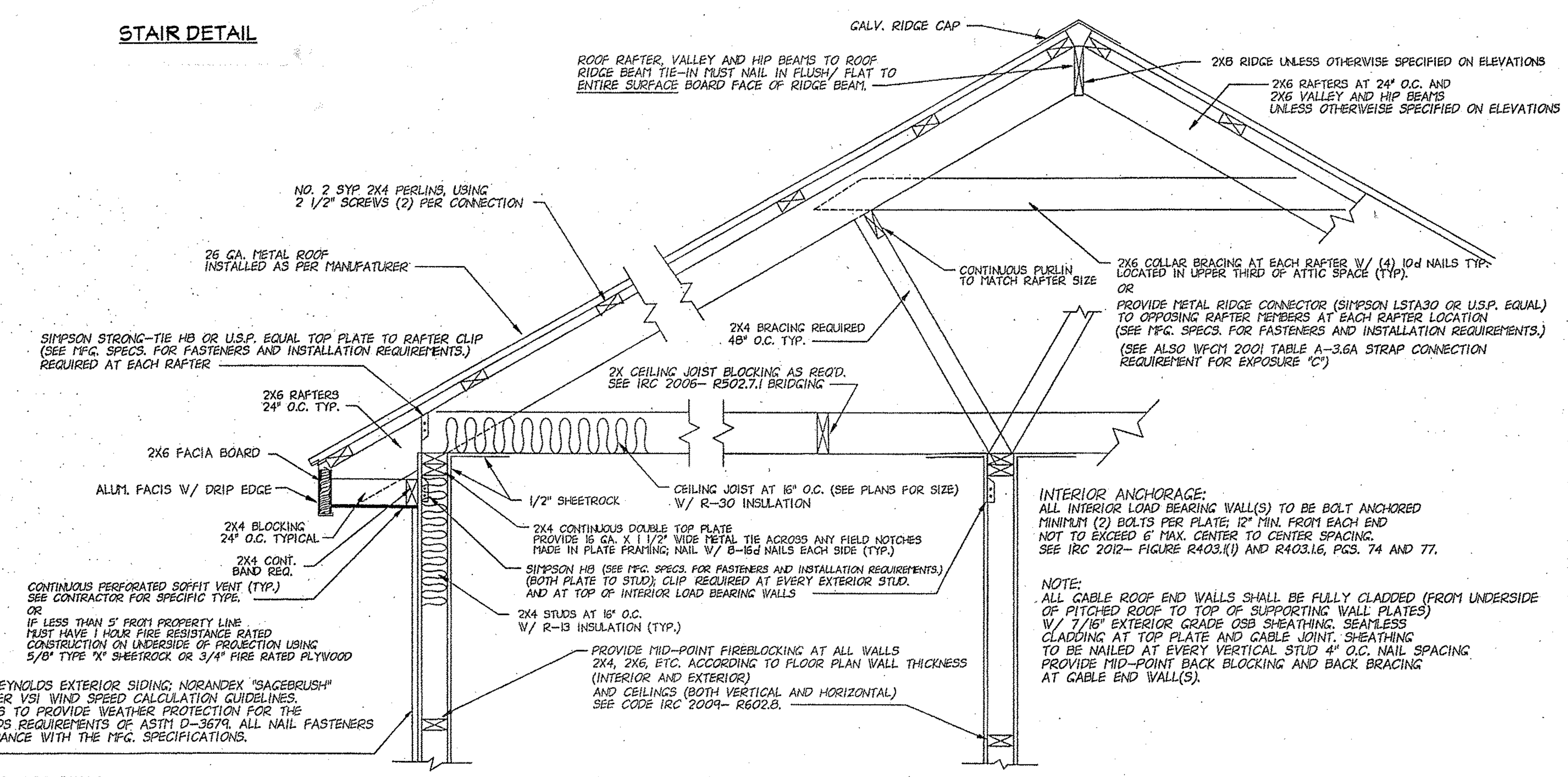
HEADER SIZE	SPAN	No. OF FULL HEIGHT STUDS REQ. AT EACH END
(2) 2x4	4'-7"	2
(2) 2x6	5'-6"	2
(2) 2x8	6'-1"	3
(2) 2x10	6'-8"	3
(2) 2x12	7'-1"	3
(3) 2x8	7'-5"	3
(3) 2x10	8'-3"	3
(3) 2x12	8'-8"	3
(4) 2x8	8'-7"	3
(4) 2x10	9'-6"	3
(4) 2x12	10'-0"	4

NOTE: BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE SHOWN SPANS ARE PERMITTED TO BE INTERPOLATED.
ALL HEADERS TO HAVE SOLID BLOCKING

HEADER SPANS FOR INTERIOR
LOADBEARING WALLS

HEADRER SUPPORTING	SIZE	BLDG WIDTH (ft) 12	24	36
		SPANS (ft-in)		
ONE FLOOR (CENTER BEARING)	(2) 2x4	4'-4"	3'-1"	2'-6"
	(2) 2x6	6'-5"	4'-6"	3'-8"
	(2) 2x8	8'-1"	5'-9"	4'-8"
	(2) 2x10	9'-11"	7'-0"	5'-9"
	(2) 2x12	11'-6"	8'-1"	6'-7"
	(3) 2x8	10'-2"	7'-2"	5'-10"
	(3) 2x10	12'-5"	8'-9"	7'-2"
	(3) 2x12	14'-4"	10'-2"	8'-3"
	(4) 2x8	11'-6"	8'-3"	6'-8"
	(4) 2x10	14'-4"	10'-1"	8'-3"
	(4) 2x12	14'-4"	11'-9"	9'-7"
TWO FLOORS ONLY (CENTER BEARING)	(2) 2x4	2'-10"	2'-1"	1'-8"
	(2) 2x6	4'-2"	3'-1"	2'-6"
	(2) 2x8	5'-4"	3'-11"	3'-3"
	(2) 2x10	6'-6"	4'-9"	3'-11"
	(2) 2x12	7'-6"	5'-6"	4'-7"
	(3) 2x8	6'-8"	4'-10"	4'-0"
	(3) 2x10	8'-1"	6'-0"	4'-11"
	(3) 2x12	9'-5"	6'-11"	5'-9"
	(4) 2x8	7'-8"	5'-8"	4'-8"
	(4) 2x10	9'-4"	6'-10"	5'-6"
	(4) 2x12	10'-10"	8'-0"	6'-7"

MAX. SPAN EXCEEDS 16' (SPANS LIMITED TO 16')
ALL HEADERS TO HAVE SOLID BLOCKING

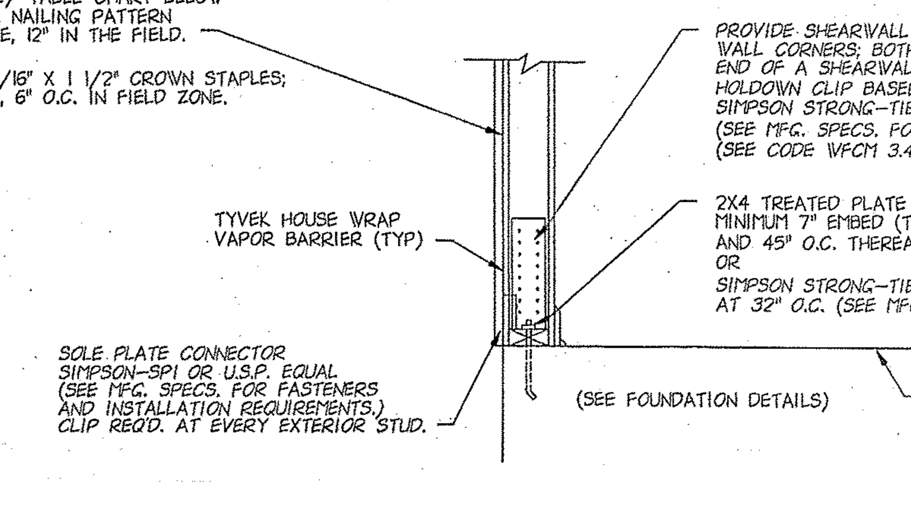


VINYL SIDING REQUIREMNT IF APPLICABLE:
VINYL SIDING MATERIAL TO BE EQUAL TO NORANDEX / REYNOLDS EXTERIOR SIDING; NORANDEX "SAGEBRUSH" TESTED TO WITHSTAND A 180 MPH WIND LOAD RATING PER VSI WIND SPEED CALCULATION GUIDELINES. VINYL SIDING SHALL BE SECURED TO THE BUILDING SO AS TO PROVIDE WEATHER PROTECTION FOR THE EXTERIOR WALLS OF THE BUILDING. CONFORMS OR EXCEEDS REQUIREMENTS OF ASTM D–3679. ALL NAIL FASTENERS TO BE CORROSION RESISTANT AND INSTALLED IN ACCORDANCE WITH THE MFG. SPECIFICATIONS. SEE CODE IRC 2012 R 703.1, EXTERIOR COVERING.

INTERIOR ANCHORAGE:
ALL INTERIOR LOAD BEARING WALL(S) TO BE BOLT ANCHORED MINIMUM (2) BOLTS PER PLATE; 12" MIN. FROM EACH END NOT TO EXCEED 6' MAX. CENTER TO CENTER SPACING. SEE IRC 2012– FIGURE R403.1(1) AND R403.1.6, PGS. 74 AND 77.

NOTE:
ALL GABLE ROOF END WALLS SHALL BE FULLY CLADDED (FROM UNDERSIDE OF PITCHED ROOF TO TOP OF SUPPORTING WALL PLATES) W/ 7/16" EXTERIOR GRADE OSB SHEATHING. SEAMLESS CLADDING AT TOP PLATE AND GABLE JOINT. SHEATHING TO BE NAILED AT EVERY VERTICAL STUD 4" O.C. NAIL SPACING PROVIDE MID–POINT BACK BLOCKING AND BACK BRACING AT GABLE END WALL(S).

7/16" OSB SHEATHING CLAD ENTIRE EXT. BLDG. WALLS CONTINUOUS FROM BOTTOM PLATE TO UPPER TOP PLATE, WITH ALL PANEL EDGES OVER FRAMING. (SEE CODE/ TABLE CHART BELOW FOR SPECIFIC GABLE END WALLS; NAILING PATTERN TO BE 8d NAILS, 6" O.C. ON EDGE, 12" IN THE FIELD.
OR
OPTIONAL USE OF GALV. 16GA., 7/16" X 1 1/2" CROWN STAPLES; PATTERN TO BE 3" O.C. ON EDGE, 6" O.C. IN FIELD ZONE.



PROVIDE SHEARWALL PREDEFLECTED HOLDOWNS AT ALL MAJOR EXTERIOR WALL CORNERS; BOTH SIDES OF ALL EXTERIOR WALL OPENINGS AND AT EACH END OF A SHEARWALL SEGMENT. (SEE DETAIL THIS SHEET) HOLDOWN CLIP BASED ON 12' AVG. WALL HGHT. SIMPSON STRONG–TIE MODEL PHD2–SDS3 OR U.S.P. EQUAL (SEE MFG. SPECS. FOR FASTENERS AND INSTALLATION REQUIREMENTS.) (SEE CODE WFCM 3.4.4.2.3. HOLDDOWNS)

2X4 TREATED PLATE W/ 10" X 1/2" DIA. BOLTS AND REQUIRED SQUARE WASHERS MINIMUM 7" EMBED (TYP.) AT 39" O.C. WITHIN 8' OF EXTERIOR BUILDING CORNERS AND 45" O.C. THEREAFTER ON ALL EXTERIOR PARTITIONS.
OR
SIMPSON STRONG–TIE MODEL MASA ANCHOR OR U.S.P. EQUAL. AT 32" O.C. (SEE MFG. SPECS. FOR INSTALLATION AND FASTENER REQUIREMENTS)

THERMAL COMPONENT CRITERIA
(U–FACTOR AND R–VALUE)

FENESTRATION U–FACTOR	MINIMUM INSULATION R–VALUE: CEILINGS	WALLS	FLOORS	BASEMENT WALLS	CRAWL SPACE WALLS
.75	R–30	R–13	R–13	R–0	R–0

GENERAL NOTES

SHEET NO.

GN