

SHEAR WALL SCHEDULE

MARK	SHEATING	NO. OF SIDES	EDGE NAIL	FIELD NAIL	PLATE NAIL (6" LONG)	SHEAR CLIP	MUDSILL ANCHORS		ALLOWABLE SHEAR (kip)	REMARKS SEE SHEAR WALL NOTES
							2X MUDSILL	3X MUDSILL		
A	1/2" OSB OR PLY'D	Single	8d @ 6"	8d @ 12"	1/4" Screws @ 0'-8"	A35 @ 2'-0"	5/8" x 10 @ 4'-0"	5/8" x 12 @ 4'-0"	260	1
B	1/2" OSB OR PLY'D	Single	8d @ 4"	8d @ 12"	1/4" Screws @ 0'-8"	A35 @ 1'-4"	5/8" x 10 @ 4'-0"	5/8" x 12 @ 4'-0"	350	1
C	1/2" OSB OR PLY'D	Single	8d @ 3"	8d @ 12"	1/4" Screws @ 0'-4"	A35 @ 1'-4"	5/8" x 10 @ 2'-8"	5/8" x 12 @ 2'-8"	490	1,2
D	1/2" OSB OR PLY'D	Single	8d @ 2"	8d @ 12"	1/4" Screws @ 0'-4"	A35 @ 1'-0"	5/8" x 10 @ 1'-4"	5/8" x 12 @ 2'-4"	640	1,2
2C	1/2" OSB OR PLY'D EACH SIDE	Double	8d @ 3"	8d @ 12"	3/8" Screws @ 0'-3"	A35 @ 0'-8"	5/8" x 10 @ 1'-4"	5/8" x 12 @ 1'-4"	980	1,2
2D	1/2" OSB OR PLY'D EACH SIDE	Double	8d @ 2"	8d @ 12"	3/8" Screws @ 0'-3"	A35 @ 0'-5"	5/8" x 10 @ 1'-0"	5/8" x 12 @ 1'-4"	1280	1,2

HOLD-DOWN SCHEDULE

MARK	FASTENRES	MINIMUM WOOD MEMBER THICKNESS	ANCHOR BOLT	EPOXY INSTALLED ANCHORS	CAPACITY (lbs)
HDU2	(6)- SDS1/4x2 1/2"	2-2X4 / 4X4	5/8" (SB5/8X24)	5/8" X 12" EMBED	3075
HDU4	(10)- SDS1/4x2 1/2"	4X4	5/8" (SB5/8X24)	5/8" X 12" EMBED	4565
HDU5	(14)- SDS1/4x2 1/2"	4X4	5/8" (SB5/8X24)	5/8" X 12" EMBED	5645
HDU8-L	(20)- SDS1/4x2 1/2"	4X4	7/8" (SB7/8X24)	7/8" X 14" EMBED	5980
HDU8-H	(20)- SDS1/4x2 1/2"	4X6 OR LARGER	7/8" (SB7/8X24)	7/8" X 14" EMBED	7870
HDU11-L	(30)- SDS1/4x2 1/2"	4X6 OR LARGER	1" (SB1X30)	1" X 18" EMBED	9535
HDU11-H	(30)- SDS1/4x2 1/2"	4X8 OR LARGER	1" (SB1X30)	1" X 18" EMBED	11175
HDU14	(36)- SDS1/4x2 1/2"	4X8 OR LARGER	1" (SB1X30)	1-1/8" X 18" EMBED	14445

HOLD-DOWN STRAP SCHEDULE

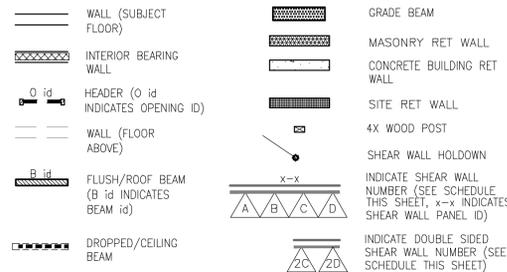
MARK	FASTENRES	MINIMUM WOOD MEMBER THICKNESS	CLEAR SPAN	CAPACITY (lbs)	REMARKS
MST37	20-16d	(2) 2 x 4 OR 4X4	18"	2465	
MST48	32-16d	(2) 2 x 4 OR 4X4	18"	3695	
MST60	46-16d	(2) 2 x 4 OR 4X4	18"	4830	
CMST14	64-16d	4X4	18"	6630	6FT LONG
CMST12	74-16d	4X6	18"	9215	6FT LONG

SHEAR WALL NOTES

- WALL SHALL BE FRAMED WITH STUDS AT 16" O.C. OR PANELS ARE APPLIED WITH LONG DIMENSION ACROSS STUDS.
- 3-INCH NOMINAL MEMBER OR TWO 2-INCH NOMINAL MEMBERS FASTENED IN ACCORDANCE WITH SECTION 2306.1 TO TRANSFER THE DESIGN SHEAR VALUE BETWEEN FRAMING MEMBERS. WOOD STRUCTURAL PANEL JOINT AND SILL PLATE NAILING SHALL BE STAGGERED IN ALL CASES.
- ALL HARDWARE SHALL BE USP STRUCTURAL CONNECTORS OR SIMPSON STRONG TIE U.O.N.
- ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 3/8" PLYWOOD WITH 8d AT 6" O.C. EDGES AND 12" O.C. THE FIELD UNLESS OTHERWISE NOTED IN THE SHEAR WALL SCHEDULE.
- WHERE 3X ADJOINING STUDS ARE REQUIRED AND THERE ARE EXISTING 2X STUDS, DOUBLE EXISTING STUDS AND STITCH NAIL WITH 16d SPACED AT 2 1/2" o.c.

LOAD TYPE	PARAMETERS	VALUE	UNIT
LIVE LOADS:	UNINHABITABLE ATTICS WITHOUT STORAGE	10	PSF
	UNINHABITABLE ATTICS WITH LIMITED STORAGE	20	PSF
	SLEEPING AREAS	30	PSF
	ALL OTHER AREAS	40	PSF
	ROOF LIVE LOADS:	20	PSF
WIND DESIGN:	WIND VELOCITY	110	MPH
	WIND EXPOSURE CATEGORY	B	
	IMPORTANCE FACTOR	1.00	
	RISK CATEGORY	II	
SEISMIC DESIGN:	S _s	1.50	
	S ₁	0.80	
	SOIL CLASS	D	
	RISK CATEGORY	II	
	IMPORTANCE FACTOR	1.00	
	SEISMIC CATEGORY	D	
	RESPONSE MODIFICATION FACTOR (LIGHT FRAME)	6.50	
	OVER-STRENGTH COEFFICIENT (OMEGA)	3.00	
ALLOWABLE STRESS BASE SHEAR	0.1077 * W		

LEGEND:



ABBREVIATIONS AND SYMBOLS:

- @ _ _ _ _ At
- A.B. _ _ _ _ Anchor bolt
- C.M.U. _ _ _ _ Concrete masonry unit
- C.O. _ _ _ _ Clean out
- C. _ _ _ _ Camber
- (E) _ _ _ _ Existing
- F.O.C. _ _ _ _ Face of concrete
- F.O.S. _ _ _ _ Face of stud
- F.P. _ _ _ _ Full penetration weld
- H.S.B. _ _ _ _ High strength bolt
- J.H. _ _ _ _ Joist hanger
- M.B. _ _ _ _ Machine bolt
- (N) _ _ _ _ New
- Ø _ _ _ _ Diameter
- Approx. _ _ _ _ Approximately
- Bldg. _ _ _ _ Building
- Blk. _ _ _ _ Block
- Blkg. _ _ _ _ Blocking
- Bm. _ _ _ _ Beam
- Bot. _ _ _ _ Bottom
- Bet. _ _ _ _ Between
- Cant. _ _ _ _ Cantilever
- C.C. _ _ _ _ Center to center
- Cl. _ _ _ _ Clear
- Clg. _ _ _ _ Ceiling
- Col. _ _ _ _ Column
- Conc. _ _ _ _ Concrete
- Conn. _ _ _ _ Connection
- Const. _ _ _ _ Construction
- Cont. _ _ _ _ Continuous
- (E) _ _ _ _ Existing
- G.L.B. _ _ _ _ Glulam beam
- PSL _ _ _ _ Parallam Beam
- ML _ _ _ _ Micolam beam
- Ht. _ _ _ _ Height
- Jst. _ _ _ _ Joist
- Lt.wt. _ _ _ _ Light weight
- Lg. _ _ _ _ Long
- Max. _ _ _ _ Maximum
- Mezz. _ _ _ _ Mezzanine
- Min. _ _ _ _ Minimum
- Opng. _ _ _ _ Opening
- Plyd. _ _ _ _ Plywood
- Proj. _ _ _ _ Project
- Reinf. _ _ _ _ Reinforcing
- Req'd. _ _ _ _ Required
- Sec. _ _ _ _ Section
- Shtg. _ _ _ _ Sheathing
- N.T.S. _ _ _ _ Not to scale
- O.F. _ _ _ _ Outside face
- S.A.D. _ _ _ _ See architectural drawings
- T. & B. _ _ _ _ Top and bottom
- T.&G. _ _ _ _ Tongue and groove
- H.D. _ _ _ _ Holdown
- T.N. _ _ _ _ Toe nail
- B.N. _ _ _ _ Boundry nail
- E.N. _ _ _ _ Edge nail
- P.N. _ _ _ _ Plate nail
- U.O.N. _ _ _ _ Unless otherwise noted
- W.W.F. _ _ _ _ Welded wire fabric
- W/ _ _ _ _ With
- W/O _ _ _ _ Without
- ⊕ _ _ _ _ Center line
- PL _ _ _ _ Plate
- Dbt. _ _ _ _ Double
- Det. _ _ _ _ Detail
- Dia. _ _ _ _ Diameter
- Dim. _ _ _ _ Dimension
- Do. _ _ _ _ Ditto
- Dwg. _ _ _ _ Drawing
- Ea. _ _ _ _ Each
- Elev. _ _ _ _ Elevation
- Ext. _ _ _ _ Exterior
- Flr. _ _ _ _ Floor
- Fndn. _ _ _ _ Foundation
- Frmg. _ _ _ _ Framing
- Ftg. _ _ _ _ Footing
- Hdr. _ _ _ _ Header
- Sim. _ _ _ _ Similar
- Simp. _ _ _ _ Simpson
- Spec. _ _ _ _ Specification
- Spr. _ _ _ _ Spread
- Sq. _ _ _ _ Square
- Stl. _ _ _ _ Steel
- Struct. _ _ _ _ Structural
- Symm. _ _ _ _ Symmetrical
- Thk. _ _ _ _ Thick
- Typ. _ _ _ _ Typical
- VL _ _ _ _ Vertical
- H.L. _ _ _ _ Horizontal
- S.W.S. _ _ _ _ Shear Wall Schedule
- Verify _ _ _ _ Verify & Report to this Engineer prior to construction.
- See For sim. details not noted or shown, see this detail.

GENERAL NOTES:

GENERAL

- ALL WORK SHALL CONFORM TO 2019 CBC AND LOCAL ORDINANCES.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND WHAT IS SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- ANY OMISSIONS OR CONFLICTS BETWEEN THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE ANY RELATED WORK IS STARTED.
- SHOP DRAWINGS REQUIRED BY THE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION, AND ALLOW REASONABLE TIME FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. ANY DEVIATIONS MUST BE APPROVED PRIOR TO ERECTION.
- MECHANICAL EQUIPMENT MUST BE FIRMLY ATTACHED TO THE STRUCTURE. ALL MECHANICAL EQUIPMENT INTENDED TO BE SUPPORTED ON, OR FROM THE STRUCTURE, UNLESS INDICATED WITHIN STRUCTURAL DRAWINGS, SHALL BE SUBMITTED TO THE ARCHITECT FOR ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
- ALL CONDITIONS NOT CLEARLY SHOWN OR DETAILED SHALL BE OF THE SAME TYPE AND CHARACTER AS THOSE SHOWN FOR SIMILAR CONDITIONS.

FOUNDATION

FOUNDATION DESIGN BASED ON 1500PSF BEARING CAPACITY (CBC TABLE R401.4.1)

CONCRETE

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS
- CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150#/CF). AGGREGATE SHALL CONFORM TO ASTM C33, U.O.N.
- CEMENT SHALL CONFORM TO ASTM C150, TYPE 1 OR 2.
- PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH ACI 301.
- CONCRETE SHALL BE MACHINE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94. SUBMIT MIX DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE.
- PROVIDE MINIMUM CLEAR COVER OF CONCRETE OVER REINFORCING AS:
 - A) AGAINST EARTH FORM - 3 INCHES
 - B) EXPOSED TO EARTH BUT POURED AGAINST FORM - 2 INCHES

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A615 GRADE 60 FOR # 5 AND LARGER BARS AND GRADE 40 FOR # 3 AND # 4.
- ALL REINFORCING STEEL SHALL BE LAPPED AS NOTED BELOW. #4: 24" FOR BOTTOM BARS AND 28" FOR TOP BARS #5: 30" FOR BOTTOM BARS AND 35" FOR TOP BARS. #6: 40" FOR BOTTOM BARS AND 46" FOR TOP BARS AT SPLICES UNLESS OTHERWISE NOTED IN PLANS. SPLICES SHALL BE LOCATED AS DETAILED IN THE PLANS. STAGGER ALL LAPS AND SPLICES.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.
- ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE BEFORE CONCRETE IS PLACED, USE CUT THREAD ANCHOR BOLTS ONLY.

WOOD FRAME CONSTRUCTION

- GENERAL WOOD FRAMING: WOOD FRAMING THROUGHOUT THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH 2019 CALIFORNIA BUILDING CODE AND THE STANDARD PRACTICES RECOMMENDED BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND WCLA GRADING. BOLTS IN WOOD FRAMING SHALL BE STANDARD MACHINE BOLTS WITH STANDARD MALLEABLE IRON WASHERS.
- JOIST HANGER AND MISCELLANEOUS CONNECTORS: MEMBERS NOT RESTING ON, OR FRAMED OVER THEIR SUPPORT SHALL BE SUPPORTED BY MEANS OF "SIMPSON STRONG-TIE" JOIST HANGERS. HANGERS SHALL COMPLY WITH AND BE NAILED IN ACCORDANCE WITH MANUFACTURER'S ESR APPROVALS.
- WOOD IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. HOT DIPPED GALVANIZED CONNECTORS AND FASTENERS SHALL BE USED IN ALL PRESSURE TREATED WOOD CONNECTIONS.
- UNLESS OTHERWISE NOTES ON DRAWINGS OR IN SPECIFICATIONS FRAMING MEMBERS SHALL HAVE THE FOLLOWING GRADING:
 - A) ALL BEAMS, COLUMNS, POSTS AND CANTILEVER JOISTS AT BALCONIES: DOUGLAS FIR, GRADE MARK - NO. 1.
 - B) FRAMING: JOISTS, STUDS, PLATES, RAFTERS: DOUGLAS FIR - NO. 2.

(TYPICAL) WALL FRAMING

LOCATION	STUDS	EXTERIOR WALLS			INTERIOR BEARING		
		12"	16"	24"	12"	16"	24"
WALLS SUPPORTING ONE STORY (ROOF)**	2X4	10'	9'	8'	12'	10'	9'
	2X6	14'	12'	9'	14'	12'	10'
WALLS SUPPORTING TWO-STORY (ROOF+1 FLR)**	2X4	8'	8'	8'	10'	9'	8'
	2X6	10'	9'	8'	12'	10'	9'
WALLS SUPPORTING THREE-STORY (ROOF + 2 FLR)**	2X4	-	-	-	9'	8'	-
	2X6	10'	9'	8'	10'	9'	8'

* LISTED HEIGHTS ARE DISTANCE BETWEEN POINTS OF LATERAL SUPPORT PERPENDICULAR TO THE PLANE OF THE WALL. INCREASES IN UNSUPPORTED HEIGHTS ARE PERMITTED WHERE JUSTIFIED BY ANALYSIS.

** MAXIMUM SUPPORTED SPAN FOR ROOF IS 35FT AND FOR FLOOR 24FT.

*** STUD GRADE SHALL BE DOUGLAS FIR LARCH #2

DEFERRED SUBMITTALS:

ROOF TRUSSES LAYOUT AND PLANS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL. REVIEWED TRUSS LAYOUT AND CALCULATIONS SHALL BE SUBMITTED TO AND APPROVED BY CITY PRIOR TO FABRICATION.

SPECIAL INSPECTIONS (EPOXY):

- A. PROVIDE SPECIAL INSPECTION FOR EPOXY INSTALLED ANCHOR BOLTS FOR SHEAR WALL HOLD-DOWNS

- PLYWOOD SHEATHING: SHALL BE DFPA CDX OR EQUAL UNLESS OTHERWISE NOTED ON DRAWINGS; SOFTWOOD PLYWOOD USED STRUCTURALLY SHALL CONFORM TO PRODUCT STANDARDS PS 1-83 AND SHALL BEAR THE DFPA GRADE - TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. ROOF SHEATHING SHALL BE 1/2 INCHES THICK (32/16). FLOOR SHEATHING SHALL BE 3/4 INCHES THICK (48/24), TONGUE AND GROOVED AND SHALL BE GLUED AND NAILED. WALL SHEATHING SHALL BE A MIN. OF 3/8 INCHES THICK, U.N.D.
- LUMBER SHALL HAVE A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT AT TIME OF CONSTRUCTION OR FABRICATION
- FRAMING CONTRACTOR SHALL PROTECT HIS WORK FROM ANY DAMAGES DUE TO WEATHER CONDITIONS AT TIME OF CONSTRUCTION.
- WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS
- PARALLEL STRAND LUMBER (PSL) BEAMS:
 - ALL PARALLEL STRAND LUMBER BEAMS SHALL BE TRUSS JOIST MACMILLAN PARALLAM (PSL) SHALL COMPLY WITH NES REPORT NO. NER-481
 - F_b = 2900 PSI F_c = 2900 PSI F_v = 290 PSI E = 2000 KSI
 - ALL EXPOSED PSL BEAMS SHALL BE WOLMANIZED (OR EQUIVALENT FORM OF PRESSURE TREATMENT)
- LAMINATED VENEER LUMBER:
 - LAMINATED VANEER LUMBER (LVL) SHALL BE BOISE CASCADE VERSALAM 3100 OR APPROVED EQUAL
 - F_b = 3100 PSI F_c = 3000 PSI F_v = 285 PSI E = 2000 KSI

NAIL SCHEDULE

- WOOD MEMBERS SHALL BE CONNECTED WITH NAILING INDICATED IN 2019 CBC TABLE 2304.10.1 UNLESS GREATER SIZES AND NUMBER OF NAILS ARE SHOWN OR NOTED ON DRAWINGS; NAILS EXPOSED TO WEATHER SHALL BE GALVANIZED; NAILS SHALL BE COMMON WIRE NAILS; HOLES FOR NAILS SHALL BE PROVIDED WHERE THE WOOD MEMBERS TEND TO SPLIT; SPLIT WOOD MEMBERS SHALL BE REPLACED AND REMOVED FROM JOB PROMPTLY. SHORT PLYWOOD NAILS FOR EQUIVALENT SHEAR VALUE MAY BE USED. SEE PLANS FOR NAIL SPACING. ROOF SHEATHING 8d AT 6 INCHES O.C. AT SUPPORTED EDGES. 8d AT 12 INCHES O.C. INTERMEDIATE SUPPORTS. FLOOR SHEATHING 8d AT 6 INCHES O.C. AT BOUNDARIES AND PANEL EDGES AND 8d AT 10 INCHES O.C. AT INTERMEDIATE SUPPORTS. PLYWOOD WALL SHEATHING SHALL BE NAILED PER SHEAR WALL SCHEDULE AT SHEAR WALLS, AND AT A MINIMUM OF 8d AT 6 INCHES O.C. ALL OTHER EDGES.
- FOR PRESSURE TREATED LUMBER USE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.



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DRAWING HISTORY	DATE
PLAN CHECK REVIEW	8-24-2020

PROJECT

RESIDENCE

AT

3766 Eastwood Cr.
Santa Clara, CA 95054



8-24-2020

GENERAL NOTES

Drawn by: _____ Drawing Number: _____

Checked by: _____

Project Number: _____

20-205 SHEET 1 OF 8

S-1