GENERAL STRUCTURAL NOTES

GENERAL

- 1. The contractor shall verify all dimensions prior to starting construction. The architect shall be notified of any discrepancies or inconsistencies.
- 2. Dimensions shall take precedence over scale shown on drawings.
- 3. Notes and details on drawings shall take precedence over general notes and typical notes.
- All work shall conform to the minimum standards of the following code. The International Building Code, 2018 Edition, and any other regulating agencies which have authority over any portion of the work, and those codes and standards listed in these notes and specifications.
- 5. See architectural drawings for the following:
 - Size and location of all door and window openings, except as noted
 - Size and location of all interior and exterior nonbearing partitions
 - Size and location of all concrete curbs, floor drains, slopes, depressed areas, changes in level, chamfers, grooves, inserts, etc.
 - Size and location of floor and roof openings except as shown
 - Floor and roof finishes
- Stair framing and details (except as shown)
- 6. See mechanical, plumbing, and electrical drawings for the following:
 - Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc. Except as shown or noted
 - Electrical conduit runs, boxes, outlets in walls and slabs
 - Concrete inserts for electrical, mechanical or plumbing fixtures
- Size and location of machine or equipment bases, anchor bolts for mounts
- 7. The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measure shall include, but not be limited to, bracing, shoring for loads due to construction equipment, etc. Observation visits to the site by the structural engineer shall not include inspection of the above structural members.
- 8. Openings, pockets, etc. larger than 6 inches shall not be placed in slabs, decks, walls, etc. unless specifically detailed on the structural drawings. Notify the structural engineer when drawings by others show openings, pockets, etc. not shown on the structural drawings, but which are located on structural members.
- 9. ASTM specifications noted shall be the latest revision.
- 10. Contractor shall investigate site during clearing and earthwork operations for filled excavations or buried structures such as cesspools, cisterns, foundations, etc. If any such structures are found, the structural engineer shall be notified immediately.
- 11. Construction materials shall be spread out if placed on floors or roof. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where structure has not attained design strength.
- 12. Design Loads:
 - Roof:
 18 psf DFAD
 - 18 psf DEAD20 psf LIVE
 - 4 psf SNOW (Pa = 5 psf)
 - Floor:
 12 psf DEAD
 - 40 psf LIVE (Reducible)
 - Wind:
 - Basic Wind Speed = 99 mph (3 sec. Gust)
 - Exposure: B
 - Risk Category: II
 - Seismic:Importance Factor: I = 1
 - \circ S_s = 0.447 S₁ = 0.161
 - Site Class: D
 - \circ S_{DS} = 0.430 S_{D1} = 0.245
 - Seismic Design Category: D
 Seismic Force Resisting System: Timber roof diaphragms with wood shear walls
 - Base Shear:
 - $^{\circ}$ V = 0.9 kips
 - $C_s = 0.066$ R = 6.5
 - Analysis Procedure: Equivalent lateral force procedure
 - Risk Category: II

FOUNDATION

- 1. Footings are designed based on an allowable soil pressure of 1000 PSF. Vector Structural Engineering strongly recommends independent soils testing be performed by a licensed geotechnical engineer to verify soil bearing capacity, slope stability, and any other related soil parameters, as required.
- 2. Contractor shall provide for proper de—watering of excavations from surface water, ground water, seepage, etc.
 3. Footings shall be placed according to depths shown on the drawings.
- 4. Footing back fill and utility trench back fill within building area shall be mechanically compacted in layers. Flooding
- will not be permitted.
 5. All abandoned footings, utilities, etc. that interfere with new construction shall be removed.
- 6. The soil under perimeter beams and slabs shall be above optimum moisture prior to concrete placement.
- 7. Clearing and Site Preparation Debris, vegetation, and deleterious material should be stripped and removed from the site. Trees and vegetation should be removed from the site. Exposed surfaces should be scarified 12 inches, brought to within 2% of optimum moisture content, and compacted to a minimum relative compaction of 90% per ASTM
- 8. Undocumented Fill All undocumented fill materials and loose materials should be removed to expose native confident material. Exposed surfaces should be scarified 12 inches, moisture conditioned, and compacted as described above.
- 9. Fill Materials Fill material should be imported engineered fill.
- 10. All \$1/2" anchor bolts may be replaced with one of these options, at the spacing indicated below:
 ICC approved \$1/2" Titen HD screws with 4" min embed
 - $\emptyset1/2$ all thread rod in $\emptyset5/8$ hole with 4 embed using Simpson ET-3G epoxy or equal

SILL ANCHORAGE TYPE	RETROFIT Ø1/2" TITEN OR ALL-THREAD ROD SPACING
SO, S1, S2, NON-SHEAR	SAME AS Ø1/2" AB
S3 & S4	12" OC

CONCRETE

- 1. All phases of work pertaining to the concrete construction shall conform to the "Building Code Requirements for Reinforced Concrete" (ACI 318 latest approved edition) with modifications as noted in the drawings and specifications.
- 2. Reinforced concrete design is by the "Ultimate Strength Design Method", ACI 318—(latest edition)
 3. Schedule of structural concrete 28—day strengths and types:
 - Location in structure Strength PSI Type
 Slabs on Grade 4500 Hard rock
 Footings 4500 Hard rock
 - Design based on 2500 PSI, 28—day strength. Special inspection is not required unless noted otherwise in the SPECIAL INSPECTION / QUALITY ASSURANCE PLAN notes on this sheet.
- otherwise in the SPECIAL INSPECTION / QUALITY ASSURANCE PLAN notes on this sheet.

 4. Concrete mix design shall be submitted to the engineer for approval with the following requirements:
- a. Compressive strength at age 28 days as specified above
- b. Large aggregate—hardrock, 3/4" maximum size conforming to ASTM C-33
- c. Cement-ASTM C-150, Type V Portland cement
- d. Maximum slump 5—inches, max water cement ratio: 0.45
- e. No admixtures, except for entrained air, and as approved by the engineer 5. Concrete mixing operations, etc. shall conform to ASTM C—94.
- 6. Placement of concrete shall conform to ACI standard 514 and project specifications.
 7. Clear coverage of concrete over outer reinforcing bars shall be as follows: Concrete poured directly against earth 3 inches clear, structural slabs 3/4 inches clear (top and bottom), formed concrete
- 8. All reinforcing bars, anchor bolts and other concrete inserts shall be well secured in position prior to placing concrete.
- 9. Provide sleeves for plumbing and electrical openings in concrete before placing. Do not cut any reinforcing that may conflict. Coring in concrete is not permitted except as shown. Notify the structural engineer in advance of conditions not shown on the drawings.
- 10. Conduit or pipe size (0.D.) shall not exceed 30% of slab thickness and shall be placed between the top and bottom reinforcing, unless specifically detailed otherwise. Concentrations of conduits or pipes shall be avoided except where detailed openings are provided.
- 11. Modulus of elasticity of concrete, when tested in accordance with ASTM C—460, shall be at least the value given by the equations in section 8.5.1 of ACI 318 for the specified 28—day strength.
- 12. Shrinkage of concrete, when tested in accordance with ASTM C-157, shall not exceed 0.0004 inches/inch.

REINFORCING STEEL

- Reinforcing bars shall conform to the requirements of ASTM A-615 grade 60.
- 2. All reinforcing bar bends shall be made cold.

with earth back fill - 2 inches clear.

- 3. Minimum lap of welded wire fabric shall be 6 inches or one full mesh and one half, which ever is greater.
- 4. Åll bars shall be marked so their identification can be made when the final in-place inspection is made.

 5. Rebar splices are to be: Class "B"
- 6. Reinforcing splices shall be made only where indicated on the drawings.
- 7. Dowels between footings and walls or columns shall be the same grade, size and spacing or number as the vertical reinforcing, respectively.

WOOD

- Framing Lumber
- a. DOUGLAS FIR LARCH #2 grade for 2x and 4x framing except for 2x4, 2x6 studs use Douglas Fir Larch Stud grade, UNO
- b. 6x framing Douglas Fir Larch #1 5x & Larger grade
- 2. Bolt holes shall be 1/16" maximum larger than the bolt size. Re—tighten all nuts prior to closing in.
- 3. Standard cut washers shall be used under all sill plate anchor bolts, UNO at shear walls. See the Shear Wall Schedule on sheet S1.1 for anchor bolt spacing and washer requirements at shear walls.
- 4. All sills or plates resting on concrete or masonry shall be preservative treated Douglas Fir. Bolts shall be placed 9 inches from the end of a plate, or from a notch greater than ½ the width of the plate, and spaced at intervals noted.
- 5. Do not notch joists, rafters or beams except where shown in details. Obtain engineer's approval for any holes or notches not detailed. Holes through sills, plates, studs and double plates in interior, bearing and shear walls shall conform with detail 6/S1.2.
- and shear walls shall conform with detail 6/51.2.

 6. Connection hardware shall be by USP or Simpson Strong—Tie, or ICC approved equal.

DU	JAL SPECIFIC	CATION TAB	LE
SIMPSON CONNECTOR	USP CONNECTOR	SIMPSON CONNECTOR	USP CONNECTOR
CS16	RS150	HDU2	PHD2A
ST6224	KST224	HDU4	PHD4A
A35	MPA1	HDU5	PHD5A
LUS24-2	JUS24-2	HDU8	PHD8
H1	RT15	HDU11	UPHD11
H10	RT16A		
LTP4	MP4F	STHD10	STAD10
LSSR	LSSH	STHD14	STAD14

- 7. Fastening schedule per International Building Code, 2018 Edition, table No. 2304.10.2. Unless noted otherwise.
- 8. All nails, bolts, holdowns, straps or other steel fasteners in contact with preservative treated timber shall be hot—dipped galvanized, stainless steel or otherwise treated or isolated to prevent chemical attack. Contractor shall verify treatment method and confirm appropriate corrosion resistance be provided in accordance with hardware supplier recommendations.
- 9. Non-bearing, non-shear interior walls to be anchored to floor and/or roof as indicated on detail 10/S1.1.
- 10. All exposed deck members shall be preservative treated lumber. Members in contact with ground shall be rated for 'ground contact' exposure.

PREFABRICATED WOOD TRUSSES

- 1. Prefabricated wood roof trusses shall be as designed by the truss manufacturer. Bridging size and spacing by truss manufacturer unless noted otherwise. Contractor shall submit shop drawings, erection drawings and design calculations sealed by an engineer, registered in the state of Nevada, for review prior to manufacture. Calculations and shop drawings shall show any special details required at bearing points. All connectors shall be Simpson or equivalent with current ICC approval.
- 2. Truss manufacturer to design trusses for lateral load (LAT. = xxxx) in pounds, as shown on plans. Lateral loads are ASD level loads.
- 3. Additional trusses shall be supplied as required to support mechanical equipment.
- 4. All truss—to—truss and truss—to—beam connectors per truss manufacturer.

WOOD STRUCTURAL PANELS

- 1. All wood structural panels shall be plywood or APA rated oriented strand board. Panels shall bear the stamp of an approved agency. Panels shall be of the span/index rating shown on the plans. Fastening shall be indicated on the plans.
- 2. All plywood shall be C-D interior sheathing with exterior glue. Plywood shall be 4-ply, minimum.

SHOP DRAWINGS

- 1. Shop drawings shall be submitted for all structural items in addition to items required by architectural specifications.
- 2. The contractor shall review all shop drawings prior to submittal. Items not in accordance with contract drawings shall be flagged for review.
- 3. Verify all dimensions with architect.
- 4. Any changes, substitutions, or deviations from original contract drawings shall be redlined or flagged by submitting parties, shall be considered approved after engineers review, unless noted otherwise.
- 5. The engineer has the right to approve or disapprove any changes to the original drawings at anytime before or after shop drawings review.
- 6. The shop drawings do not replace the original contract drawings. Items omitted or shown incorrectly and are not flagged by the structural engineer or architect are not to be considered changes to the original contract drawings.
- 7. The adequacy of engineering designs and layout performed by the others rests with the designing or submitting authority.
- 8. Reviewing is intended only as an aid to the contractor in obtaining correct shop drawings. Responsibility for corrections shall rest with the contractor.

SHEATHING

- 1. Roof sheathing
 - 15/32" wood structural panel: plywood or oriented strand board (OSB) panel index = 32/16, unblocked, nail with 8d common nails at 6" OC at all boundaries and supported edges, 12" OC field.
 - Sheathing for shear walls shall be as indicated on the shear wall plans and schedules. Sheathing at shear walls may be installed with panels horizontal or vertical. All shear wall panels shall have minimum wood structural panel span rating of 24/0 or "Wall—16."

SPECIAL INSPECTION / QUALITY ASSURANCE PLAN

- 1. The lateral force resisting system consists of timber roof & floor diaphragms with wood shear walls.

 2. The following special inspections are required:
 - All post-installed anchorage to concrete (periodic)
 - When required by the local building department: All timber elements of the lateral force resisting system components.
 - a. The owners shall employ special inspectors who shall provide additional inspections during construction in accordance with IBC section 17.
 - b. All special inspections shall be performed by an independent certified inspector from an established
- testing agency, licensed and approved by the building department.

 c. The testing agency shall send copies of all structural testing and inspection reports directly to Vector Structural Engineering and all interested parties.
- 3. Structural testing is not required.
- 4. All reports shall be distributed on a monthly basis to the engineer of record, owner, contractor, and to the building official.
- 5. No structural observation is required. However, the engineer of record reserves the right to make field observations during construction approximately once per week.

GENERAL STRUCTURAL NOTES STANDARD DETAILS & SCHEDULES STRUCTURAL PLANS STRUCTURAL DETAILS ON THE CONTROL OF THE CONTROL OF

SHEET INDEX

SHEET NAME

SHT #

SD-1

	ABBREVIATIONS							
	ANCHOR BOLT	EJ	EXPANSION JOINT	0/	OVER			
V	ABOVE	EL	ELEVATION	ОС	ON CENTER			
DL	ADDITONAL	EMBED	EMBEDMENT	OD	OUTSIDE DIAMETER			
CHL	ARCHITECTURAL DRAWINGS	EOR	ENGINEER OF RECORD	OPNG	OPENING			
	BOTTOM OF	EQ	EQUAL	OPP	OPPOSITE			
OG .	BUILDING	EW	EACH WAY	OPT	OPTIONAL			
<	BLOCK/BLOCKING	FIN	FINISHED	OSB	ORIENTED STRAND BOARD			
N	BELOW	FL or FLR	FLOOR	0SF	OUTSIDE FACE			
	BEAM	FND	FOUNDATION	PL	PLATE			
Τ	ВОТТОМ	FS	FAR SIDE	PSL	PARALLEL STRAND LUMBER			
G	BEARING	FTG	FOOTING	PT	POST-TENSION			
NTL	CANTILEVERED	GL	GLUE LAMINATED	PT	PRESSURE TREATED			
S	COLD-FORMED STEEL	GSN	GENERAL STRUCTURAL NOTES	REINF	REINFORCEMENT			
)	CAST IN PLACE	HD	HOLDOWN	REQD	REQUIRED			
	CONTROL JOINT	HDR	HEADER	SHT	SHEET			
	CENTER LINE	HGR	HANGER	SHTHG	SHEATHING			
3	CEILING	HOR	HORIZONTAL	SIM	SIMILAR			
₹	CLEAR	ID	INSIDE DIAMETER	SQ	SQUARE			
U	CONCRETE MASONRY UNIT	ISF	INSIDE FACE	STD	STANDARD			
L	COLUMN	JT	JOINT	STL	STEEL			
NC	CONCRETE	KP	KING POST	SYM	SYMMETRICAL			
NN	CONNECT/CONNECTION	KS	KING STUD	t/	TOP OF			
NST	CONSTRUCTION	LLH	LONG LEG HORIZONTAL	T&B	TOP AND BOTTOM			
NT	CONTINUOUS	LLV	LONG LEG VERTICAL	THK	THICK			
١.	CROSSWISE	LSH	LONG SIDE HORIZONTAL	TOF	TOP OF FOOTING			
	DOUBLE	LSL	LAMINATED STRAND LUMBER	TOW	TOP OF WALL			
	DIMENSION	LSV	LONG SIDE VERTICAL	TS	TRIMMER STUD			
1	DIRECTION	LVL	LAMINATED VENEER LUMBER	TYP	TYPICAL			
	DETAIL	L.W.	LENGTHWISE	u/	UNDER			
G	DRAWING	MFR	MANUFACTURER/MANUFACTURED	UNO	UNLESS NOTED OTHERWISE			
L	DOWEL	MIR	MIRRORED	VERT	VERTICAL			
	EXISTING	(N)	NEW	w/	WITH			
	EACH	NS	NEAR SIDE	WP	WORK POINT			

NOT TO SCALE

RELEASE DATE: July 18, 2024

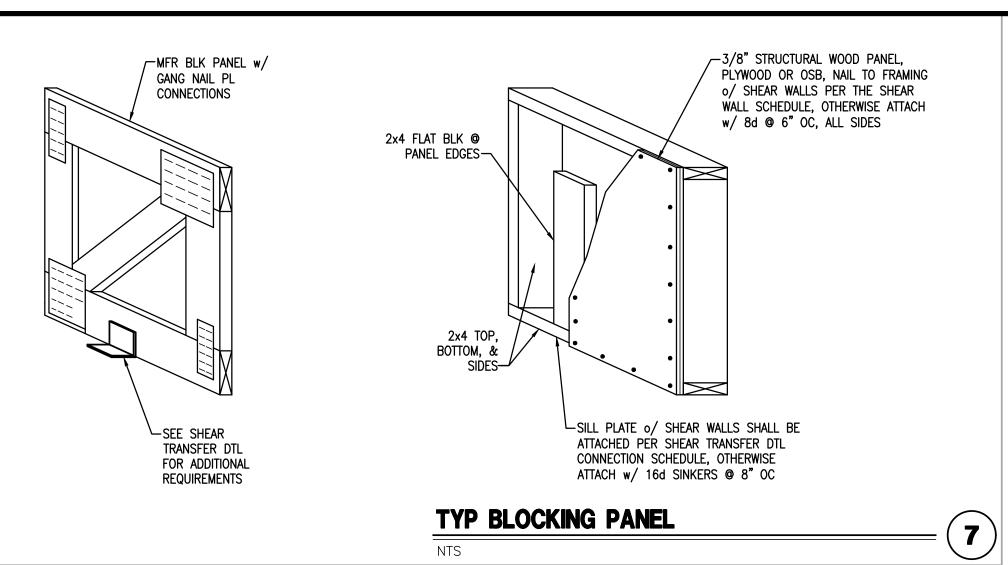
EACH FACE

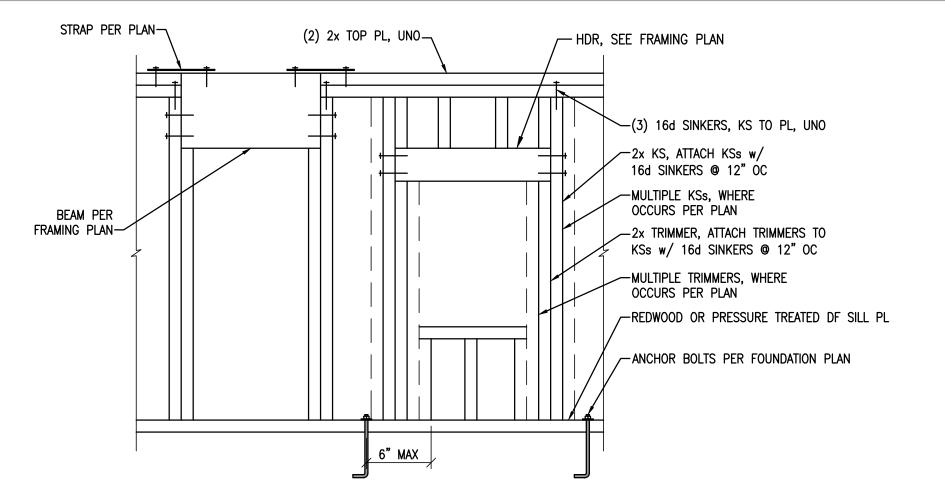
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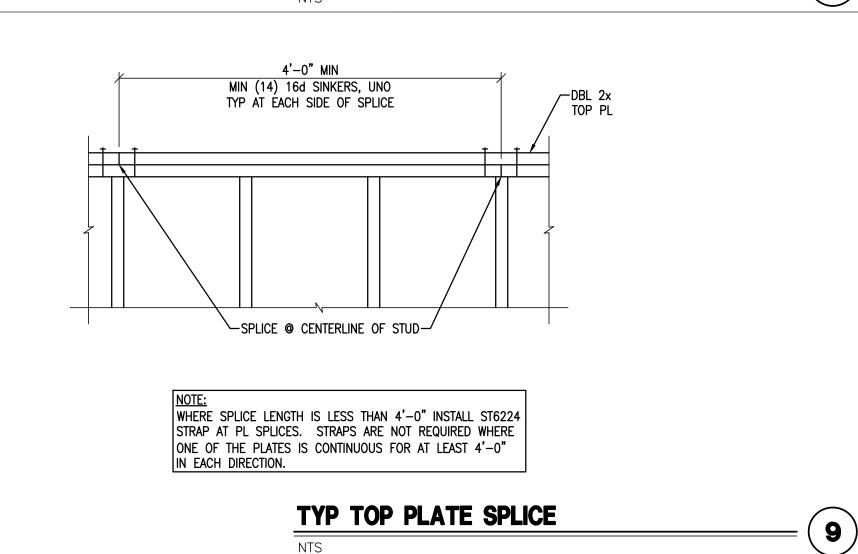
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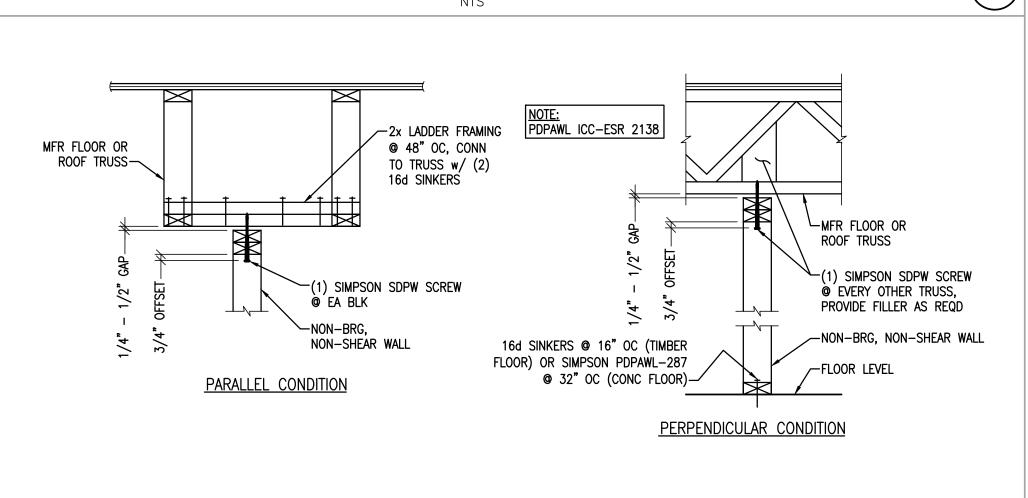




TYP WALL FRAMING

8

(10)



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NON-BRG & NON-SHEAR WALL CONN

	STU	HEIGHT .	TABLE	
STUD WALL TYPE		D/OR SHEAR AX HEIGHT)	NON-BEARING AND NON-SHEAR WALLS (MAX HEIGHT)	,—TOP PL, RAKED
	EXTERIOR	INTERIOR	INTERIOR ONLY	/ WHERE OCCURS
2x4 STUD @ 16" OC	8'-6"	10'-0"	13'-0"] /
2x4 STUD @ 12" OC	9'-6"	11'-6"	14'-0"	
(2) 2x4 STUD @ 16" OC	12'-0"	13'-6"	14'-0"	
2x4 DFL #2 @ 16" OC	9'-0"	11'-0"	13'-0"	
2x4 DFL #2 @ 12" OC	10'-6"	13'-0"	14'-0"	
(2) 2x4 DFL #2 @ 16" OC	13'-0"	13'-6"	14'-0"] '
2x6 STUD @ 16" OC	14'-6"	19'-0"	20'-0"	1
2x6 STUD @ 12" OC	17'-0"	21'-0"	22'-0"]
(2) 2x6 STUD @ 16" OC	21'-0"	22'-0"	22'-6"	STUD HEIGHT
2x6 DFL #2 @ 16" OC	16'-6"	19'-6"	20'-0"	
2x6 DFL #2 @ 12" OC	18'-6"	21'-6"	22'-0"	<u> </u>
(2) 2x6 DFL #2 @ 16" OC	22'-6"	22'-6"	22'-6"	SOLE PL—
2x8 DFL #2 @ 16" OC	22'-0"	26'-6"	27'-0"	FDN-\
2x8 DFL #2 @ 12" OC	25'-6"	28'-0"	30'-0"	1 FUN-\\
(2) 2x8 DFL #2 @ 16" OC	29'-6"	29'-6"	30'-0"	
1-3/4 x 7-1/4 LVL STUDS @ 16" OC	27'-0"	30'-0"	30'-0"	1
1-3/4 x 5-1/2 LVL STUDS @ 16" OC	20'-6"	21'-6"	22'-0"	
2x4 OR 2x6 STUD @ 24" OC	_	_	11'-6"	1

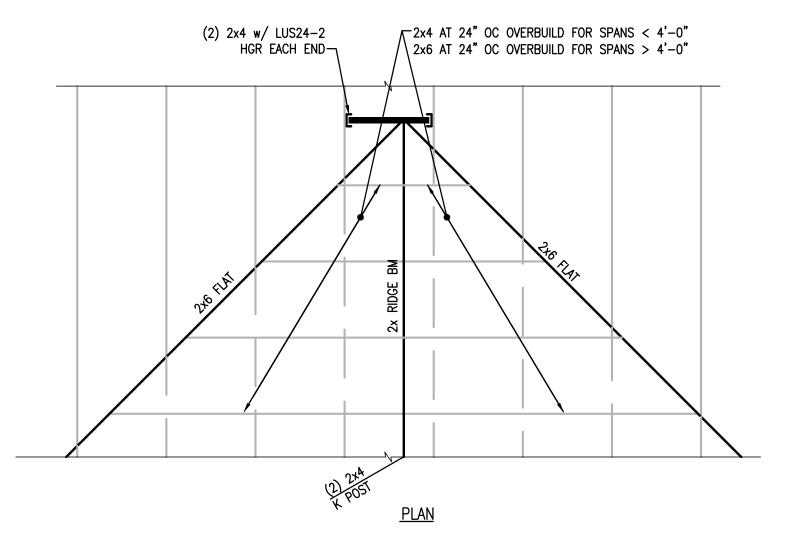
1. THIS TABLE ASSUMES IBC WIND LOADS w/ 115 mph, EXP "C" AT EXTERIOR WALLS & 5 psf LATERAL LOAD AT INTERIOR WALLS.

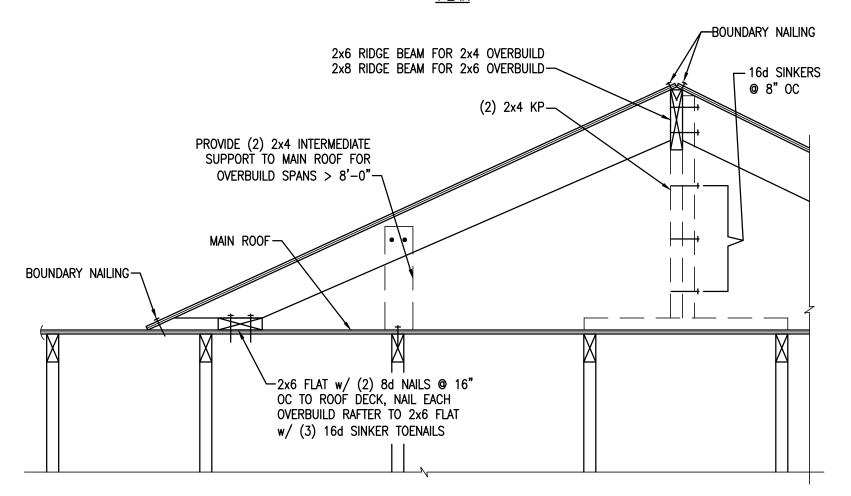
2. THIS TABLE ASSUMES AXIAL DL = 710 lb/ft, LL = 760 lb/ft AT EXTERIOR AND INTERIOR WALLS.

NTS

STANDARD STUD TABLE

NOT USED





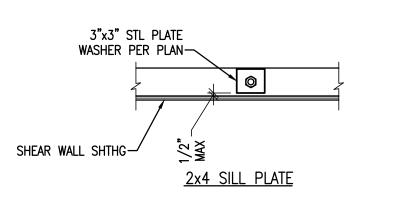
TYP OVERBUILD

	SHEAR WALL SCHEDULE						
MARK	MIN BLOCKED MATERIAL	EDGE / BOUNDARY NAILING	FIELD NAILING	SOLE PL NAILING, WHERE OCCURS	WALL C SEISMIC	APACITY WIND	DEFAULT SILL ANCHORAGE, UNO
A	3/8" PLYWOOD OR OSB	8d COMMON NAILS @ 6" OC	8d COMMON NAILS @ 12" OC	16d SINKERS @ 6" OC	260 plf	365 plf	<u></u> \$1
P	3/8" PLYWOOD OR OSB	8d COMMON NAILS @ 4" OC	8d COMMON NAILS @ 12" OC	16d SINKERS @ 4" OC	365 plf	520 plf	<u>\$</u> 2
A	3/8" PLYWOOD OR OSB	8d COMMON NAILS @ 3" OC	8d COMMON NAILS @ 12" OC	16d SINKERS @ 3" OC	490 plf	685 plf	<u>\$</u> 3
PA	3/8" PLYWOOD OR OSB	8d COMMON NAILS @ 2" OC	8d COMMON NAILS @ 12" OC	16d SINKERS @ 2" OC	640 plf	895 plf	<u>\$</u>

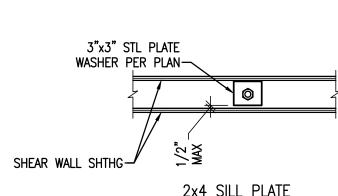
	SILL AN	CHORAGE S	CHEDULE		SHEAR WALL LENGTH TOLERANCES
MARK	NOMINAL SILL PL THICKNESS	ø1/2" AB SPACING	ø5/8" AB SPACING	CAPACITY	SPECIFIED SHEAR WALL LENGTH ACCEPTABLE SHEAR WALL TOLERANCE
<u>S</u> 1	2x	32" OC	48" OC	370 plf	UP TO 3'-0" ± 2"
\$2	2x	24" OC	32" OC	520 plf	OVER 3'-0" AND UP TO 5'-0" ± 3"
<u></u>	_		2.7	740 16	OVER 5'-0" AND UP TO 7'-0" ± 4"
	2x	16" OC	24" OC	740 plf	OVER 7'-0" AND UP TO 10'-0" ± 6"
<u>\$</u>	2x	12" OC	16" OC	1040 plf	OVER 10'-0" ± 8"

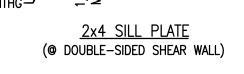
- 1. ALL SHEAR WALLS SHALL BE FRAMED TO THE MINIMUM LENGTHS SHOWN ON THE PLANS WITH THE TOLERANCES INDICATED ON
- THE TABLE ABOVE, UNO ON PLAN w/ MINIMUM WALL LENGTH. 2. ALL SHEAR WALLS SHALL TERMINATE ON AT LEAST (1) FULL HEIGHT STUD. ADDITIONAL STUDS OR SOLID POSTS SHALL BE
- INSTALLED AS REQUIRED FOR HOLDOWNS WHERE THEY OCCUR. 3. 8d COMMON NAIL SHANK DIAMETER = 0.131", 16d SINKER SHANK DIAMETER = 0.148"
- 4. FOR "P2", "P3" AND "P4" SHEAR WALLS, ALL FRAMING RECEIVING EDGE NAILING FROM ADJOINING PANEL EDGES SHALL BE 3-INCH NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED. AS AN ALTERNATE, (2) 2x STUDS MAY BE USED PROVIDED THEY
- ARE NAILED TOGETHER w/ (2) 16d SINKERS @ 6" OC FULL HEIGHT. 5. FOR "P2", "P3" AND "P4" DOUBLE-SIDED SHEAR WALLS, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3-INCH NOMINAL OR WIDER AT ADJOINING PANEL EDGES AND NAILS ON EACH SIDE SHALL BE
- 6. ALL ANCHOR BOLTS SHALL HAVE 7" MINIMUM EMBEDMENT.
- 7. ALL SHEAR WALL ANCHOR BOLTS SHALL INCLUDE A STEEL 3"x3"x0.229" PLATE WASHER BETWEEN THE SILL PL & NUT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. ANCHOR BOLTS & PLATE WASHERS ARE TO BE OFFSET TOWARD THE SHEATHED WALL EDGE TO LIMIT THE GAP BETWEEN THE EDGE OF WASHER TO SHEATHING TO A MAXIMUM OF 1/2". WHERE BOTH SIDES OF A 2x6 WALL IS SHEATHED A STEEL 4-1/2"x3"x0.229" PLATE WASHER SHALL BE CENTERED ON THE SILL PLATE, PER DTL 2/-.

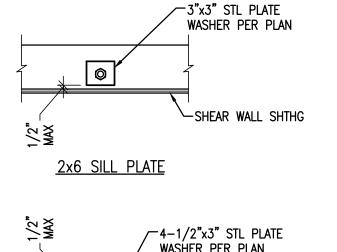
STANDARD SHEAR WALL SCHEDULE

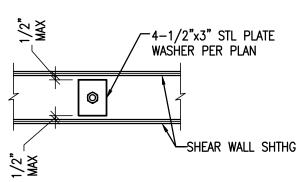


5









(@ DOUBLE-SIDED SHEAR WALL)

2x6 SILL PLATE

TYP SHEAR WALL WASHERS NTS

	FOOTING SCHEDULE					
MARK	SIZE	REINFORCING, BOTTOM				
F2.0	2'-0" SQ x 10" THICK	(3) #4 EACH WAY				
F2.5	2'-6" SQ x 10" THICK	(3) #4 EACH WAY				
F3.0	3'-0" SQ x 12" THICK	(4) #4 EACH WAY				
F3.5	3'-6" SQ x 12" THICK	(5) #4 EACH WAY				
F4.0	4'-0" SQ x 12" THICK	(6) #4 EACH WAY				
F4.5	4'-6" SQ x 14" THICK	(7) #4 EACH WAY				
F5.0	5'-0" SQ x 14" THICK	(8) #4 EACH WAY				
F5.5	5'-6" SQ x 16" THICK	(10) #4 EACH WAY				
CF1.0	1'-0" WIDE x 10" THICK	(2) #4 CONT				
CF1.33	1'-4" WIDE x 10" THICK	(2) #4 CONT				
CF1.5	1'-6" WIDE x 10" THICK	(2) #4 CONT				

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(3)

 $(\mathbf{2})$

STANDARD FOOTING SCHEDULE



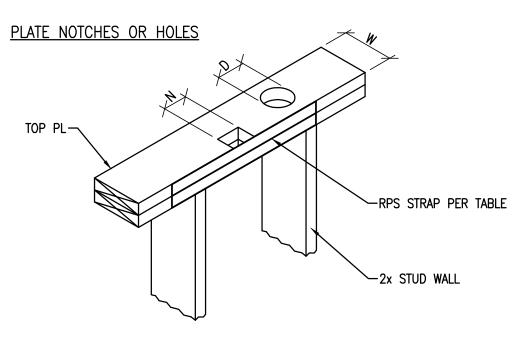
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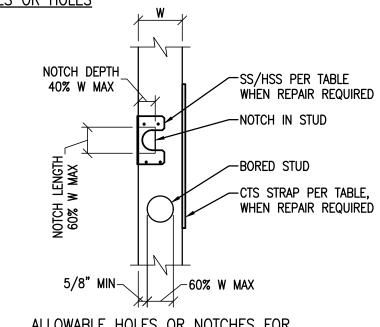


	2x4 STUD	2x6 STUD	2x4 & 2x6 PLATE	
	HOLE DIA. 'D'	HOLE DIA. 'D'	NOTCH WIDTH 'N' (MAX NOTCH DEPTH = W/2	RPS STRAP
	/ 7/0"			
	≤ 7/8"	≤ 1"	≤ 1"	NONE
l	≤ //ŏ ≤ 1"	≤ 1" ≤ 1 3/8"	≤ 1" ≤ 2 1/2"	NONE (1) RPS18
ŀ	·	2 '	- '	

NOTES:
1. USE RPSZ FOR SILL PLATE.

- 2. CENTER STRAPS @ NOTCH OR HOLE. 3. WHERE ROOF TRUSS OR FLOOR JOIST IS BEARING WITHIN STUD BAY OF THE HOLE OR NOTCH, INSTALL AN ADDITIONAL STUD DIRECTLY BELOW THE TRUSS OR JOIST UNLESS NO RPS STRAP IS REQUIRED OR WHERE EXISTING STUD FACE IS WITHIN 3" OF TRUSS OR JOIST FACE.
- 4. NOTCHES & HOLES MUST BE SEPARATED BY "2xD" OR "2xN". 5. WHERE MULTIPLE HOLES ARE LOCATED ADJACENT TO EACH OTHER, THE STRAP REPAIR MAY BE WITH A CS16 STRAP ON EACH SIDE OF THE UPPER PLATE. THE STRAPS AND NAILING SHALL EXTEND AT LEAST 9" BEYOND EACH END OF THE WHOLE GROUP. NAILING BETWEEN THE HOLES IS NOT REQUIRED. NAILS IN THE CS16 STRAPS MAY BE N8'S OR N10'S.

STUD NOTCHES OR HOLES



ALLOWABLE HOLES OR NOTCHES FOR NON-BEARING, NON-SHEAR OR INTERIOR PARTITIONS (NO REPAIR REQD)

				
HOLE / NOTCH SCHEDULE				
HOLE / NOTCH % OF 'W'	2x4 STUD	2x6 STUD		
25%	3/4"	1-3/8"		
40%	1-3/8"	2-1/8"		
60%	2"	3-1/4"		

- 1. HOLES & NOTCHES SHALL NOT OCCUR IN THE SAME STUD. 2. WHERE HOLES OR NOTCHES EXCEED THOSE SHOWN ABOVE,
- REPAIR PER TABLE BELOW. 3. ALL NOTCHES IN BEARING OR SHEAR OR EXTERIOR WALLS REQUIRE REPAIRS.

STUD HOLE REPAIR					
	2x4 STUD	2x6 STUD			
	HOLE DIA. 'D'	HOLE DIA. 'D'	REPAIR		
NON-BEARING & NON-SHEAR & INTERIOR	≤ 2 3/4"	≤ 4 1/2"	(1) CTS218 w/ 10d		
BEARING OR SHEAR OR EXTERIOR WALL	≤ 3/4"	≤ 1 3/8 "	(1) CTS218 w/ 10d		
BEARING OR SHEAR OR EXTERIOR	≤ 2 3/4"	≤ 4 1/2"	(2) CTS218 TWO-SIDED w/ 10d		

STUD NOTCH REPAIR					
	2x4 STUD	2x4 STUD	2x6 STUD	2x6 STUD	
	NOTCH DEPTH	NOTCH LENGTH	NOTCH DEPTH	NOTCH LENGTH	REPAIR
NON-BEARING & NON-SHEAR & INTERIOR	≤ 2 1/2"	≤ 4 1/2"	≤ 3 3/4"	≤ 4 1/2"	(1) CTS218 w/ 10d
BEARING OR SHEAR OR EXTERIOR WALL	≤ 2 1/2"	≤ 2 1/2"	≤ 2 1/2"	≤ 2 1/2"	SS w/ 10d
BEARING OR SHEAR OR EXTERIOR	≤ 2 3/4"	≤ 4 1/2"	≤ 4 1/2"	≤ 4 1/2"	(2) CTS218 TWO-SIDED w/ 10d

DRILLING & NOTCHING OF PLATES & STUDS

1-1/2" HUS26 2565 FACE MOUNT 1-1/2" STEEL OR TIMBER HGUS26 3750 FACE MOUNT STEEL OR TIMBER HGUS28 5720 FACE MOUNT STEEL OR TIMBER LUS26-2 1000 FACE MOUNT STEEL OR TIMBER HHUS26-2 FACE MOUNT 2580 STEEL OR TIMBER HGU26-2 3940 FACE MOUNT STEEL OR TIMBER HGUS28-2 6805 FACE MOUNT STEEL OR TIMBER HGUS210-2 8650 FACE MOUNT 3-1/2" STEEL OR TIMBER LUS46 1000 FACE MOUNT STEEL OR TIMBER 3-1/2" HHUS46 2580 FACE MOUNT 3-1/2" STEEL OR TIMBER FACE MOUNT HGUS46 3940 STEEL OR TIMBER 3-1/2" HGUS48 6805 FACE MOUNT STEEL OR TIMBER HGUS26-4 3940 FACE MOUNT STEEL OR TIMBER 6" HGUS210-4 FACE MOUNT 8780 STEEL OR TIMBER HGUS212-4 9155 FACE MOUNT 1. FOR STEEL BEAMS CARRYING FLOOR TRUSSES, PROVIDE TIMBER FILLER PER DTL BELOW. 2. ALTERNATE HANGERS MAY BE USED AT THE CONTRACTOR'S OPTION. SUBMIT TO ENGINEER OF RECORD FOR APPROVAL.

MFR TRUSS TO BEAM HANGERS

HANGER

TYPE

LUS210

CARRIED MBR

WIDTH

1-1/2"

MAX REACTION (FROM

TRUSS CALCS.) (LBS)

1275

NOTES

FACE MOUNT

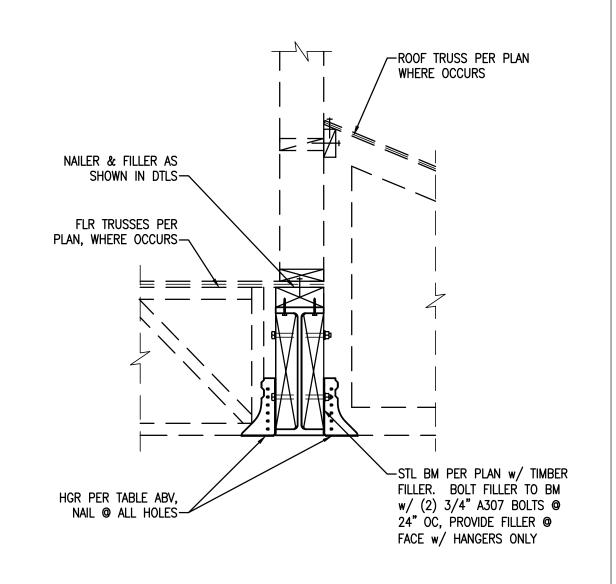
- 3. HANGERS APPLICABLE FOR TIMBER BEAMS.

CARRYING

MEMBER

STEEL OR TIMBER

STEEL OR TIMBER



TYP STEEL BEAM

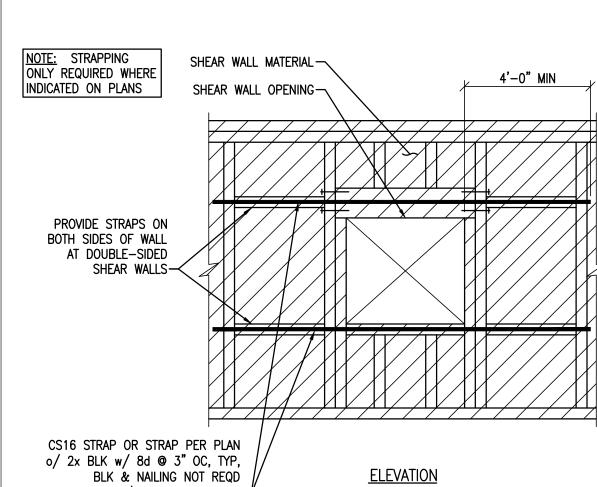
TYP TRUSS HANGERS

NOT USED



(4)

(5)



SHEAR TRANSFER AT OPENING

UNDER/OVER THE OPENING-

3

	STANDARD TRU TIE-DOWNS	JSS
UPLIFT LOAD PER TRUSS MANUFACTURER	SIMPSON TIE-DOWN	REQD ALIGNED HOLDOWN & POST
130 TO 425 lbs	H1 or CS16	NOT REQD
< 485 lbs	SDWC TRUSS SCREW	NOT REQD
< 615 lbs	H2.5A or CS16	NOT REQD
< 1015 lbs	H10A or CS16	HDU2 & (2) 2x4 POST
< 1180 lbs	H16 or CS16	HDU2 & (2) 2x4 POST
< 6485 lbs	HGT-2	(2) 2x4 POST w/ HDU4 (2) HDU2 @ TOP TO HGT-2 AT (1) PLY TRUSS, INSTALL 2x SHAPED FILLER ADJACENT TO TRUSS AT BEARING

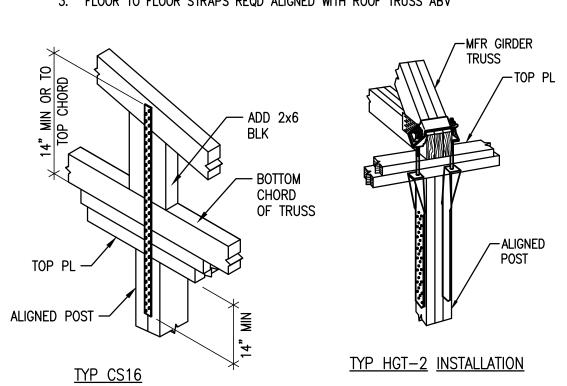
. TIE-DOWN CAPACITIES ARE BASED ON SPRUCE PINE FIR

- 2. TRUSS UPLIFT OF LESS THAN 130lbs: TIE-DOWN NOT REQD, ATTACH w/ (3) 16d SINKER TOENAILS TRUSS TO PL
- 3. SEE TYP HOLDOWN ANCHORAGE DETAIL FOR HDU HOLDOWN INSTALLATION

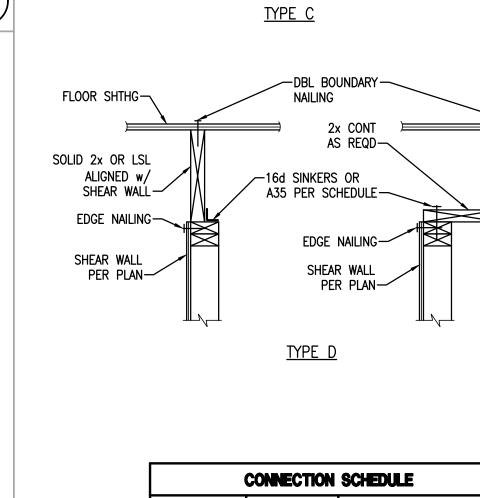
STANDARD FLOOR-TO-FLOOR STAPS				
*UPLIFT LOAD PER TRUSS MANUFACTURER	SIMPSON TIE-DOWN	REQD ALIGNED POST		
< 1705 lbs	CS16	2x4 POST		
< 3410 lbs	(2) CS16	(2) 2x4 POST		

1. INSTALL CS16 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING.

- NAIL EACH END w/(11) 10d NAILS. (STRAP LENGTH = 48"). 2. WHERE UPLIFT OCCURS ABOVE HDR OR BM, INSTALL STRAP PER
- SCHEDULE AT EACH TRIMMER OR POST 3. FLOOR TO FLOOR STRAPS REQD ALIGNED WITH ROOF TRUSS ABV



SOLID 2x OR LSL BLOCKING **2**



ROOF SHTHG-

TYPE A

16d SINKERS OR

A35, PER SCHEDULE—

2x CONT, AS REQD-

TYPE B

EDGE NAILING-

SHEAR WALL

PER PLAN-

∕—A35 OR LTP4

PER SCHEDULE

─MFR TRUSS

─16d SINKERS @ 4" OC

OC TO TRUSS VERT

─BLK PANEL PER

DTL 7/S1.1

─EDGE NAILING

SHEAR WALL PER PLAN

DBL BOUNDARY

DRAG TRUSS

FLOOR SHTHG

NAILING —

BLK PANEL SIDE TO TRUSS VERT, FOR MFR'S BLK

PANEL PROVIDE A35 @ 6"

_ROOF SHTHG

└─16d SINKERS

OR A35, PER

SCHEDULE

—A35 OR LTP4

-FLOOR JOIST

-EDGE NAILING

FLOOR SHTHG

←SOLID 2x

OR LSL FLR JOIST

SCHEDULE

-SHEAR WALL

PER PLAN

PER PLAN

PER SCHEDULE

DBL BOUNDARY NAILING-

16d SINKERS OR A35,

PER SCHEDULE-

UPLIFT HARDWARE PER

TRUSS CALCS & DTL 2/-

DBL BOUNDARY

DRAG TRUSS-

EDGE NAILING—

SHEAR WALL

PER PLAN—

DBL BOUNDARY NAILING-

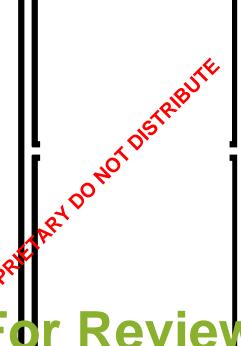
NAILING-

CONNECTION SCHEDULE				
SHEAR WALL	A35 OR LTP4	16d SINKERS		
P1	18" OC	6" OC		
P2	12" OC	4" OC		
P3	10" OC	3" OC (STAGGERED)		
P4	8" OC	2" OC (STAGGERED)		
DBL P3 OR P4	6" OC	(2) @ 3" OC (STAGGERED		

SHEAR TRANSFER

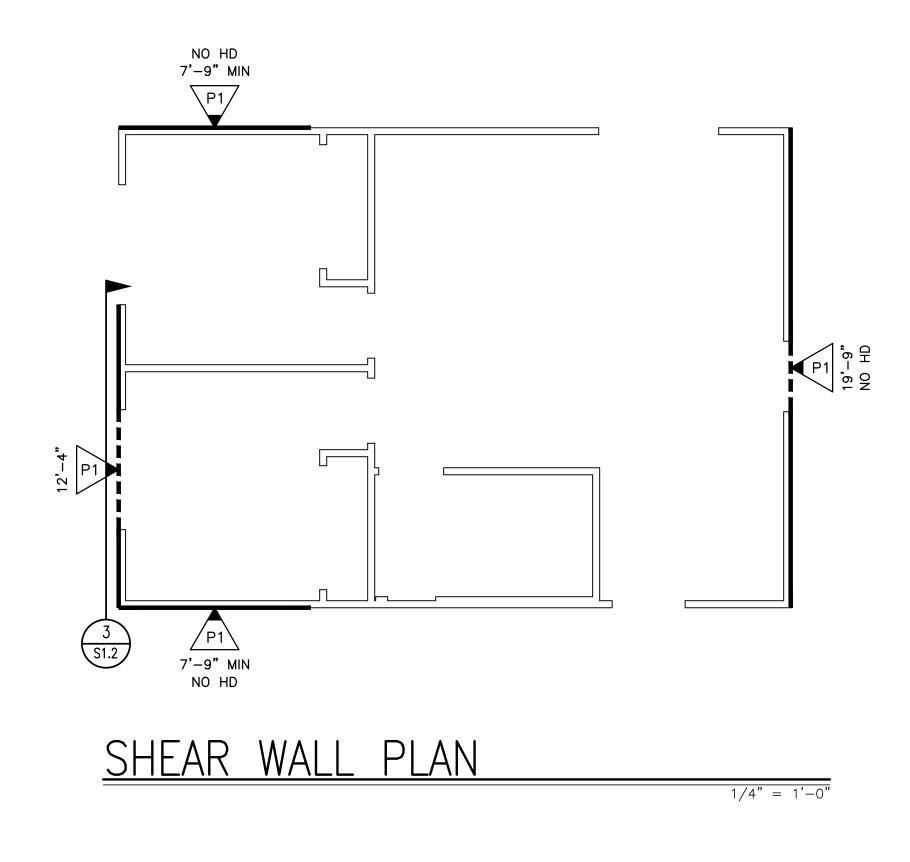


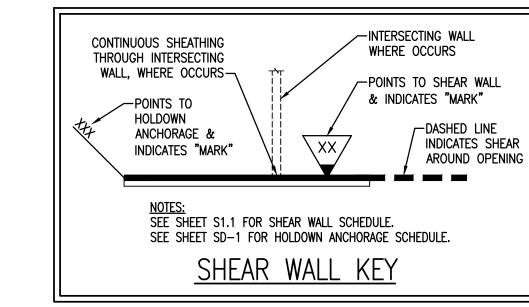
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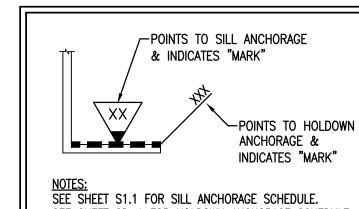


| NOTE: | WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" OC FULL HEIGHT OR w/ LTP4 @ 12" OC FULL HEIGHT.

NOIE: SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.

FOUNDATION NOTES:

- CONTRACTOR TO CONFIRM DIMENSIONS WITH ALL ARCHL PLANS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR WALLS, INTERIOR BEARING WALLS & SHEAR WALLS TO BE ATTACHED TO THE FOUNDATION w/ Ø1/2" x 10" LONG ANCHOR BOLTS (7" EMBED) AT 72" OC, UNO. SEE THIS PLAN & SHEAR WALL SCHEDULE FOR ANCHOR BOLT REQUIREMENTS AT SHEAR WALLS. ANCHOR BOLTS AT SHEAR WALLS TO HAVE WASHERS PER SHEAR WALL SCHEDULE (S1.1). ALL OTHER ANCHOR BOLTS TO HAVE WASHERS PER "WOOD" NOTE 3 ON SHEET S1.
- ISOLATED FOOTINGS & INTERIOR STRIP FOOTINGS TO BE CENTERED BELOW POSTS & BEARING/SHEAR WALLS, RESPECTIVELY.
- SEE SHEET S1.1 FOR FOOTING SCHEDULE.
- MASA MUDSILL ANCHORS MAY BE USED IN PLACE OF ANCHOR BOLTS, INSTALLED AT THE SAME SPACING INDICATED FOR ANCHOR BOLTS, INCLUDING REDUCED SPACING AT SHEAR WALLS.
- STRIP & REMOVE EXISTING VEGETATION, REMOVE UNCONTROLLED FILL, OVEREXCAVATE AND REPLACE w/ PROPERLY COMPACTED FILL.



SEE SHEET SD-1 FOR HOLDOWN ANCHORAGE SCHEDULE.

SILL ANCHORAGE KEY

- FRAMING NOTES:

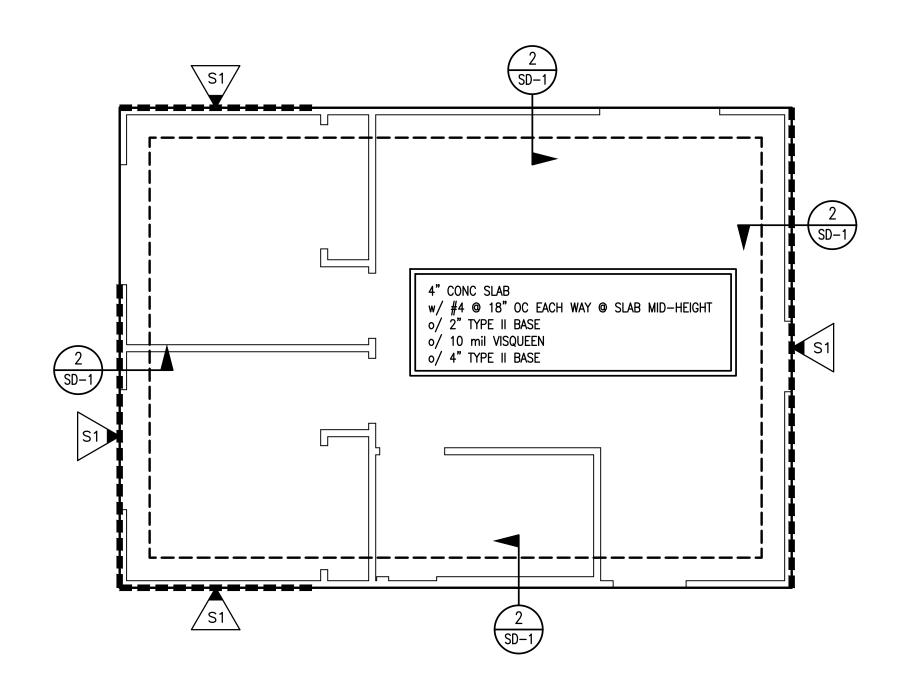
 1. ALL FRAMED WALLS TO BE 2x @ 16" OC (MAX) PER ARCHITECTURAL PLANS AND SHALL MEET REQUIREMENTS OF STÁNDARD STUD TABLE ON
- FACE NAIL MULTIPLE 2x POSTS WITH 16d SINKERS @ 6" OC.
- SHADED AREAS ARE TYPICAL OVERBUILD, STICK FRAMED PER DETAIL 6/S1.1 OR OVERBUILD TRUSSES PER TRUSS MANUFACTURER.
- INTERIOR BEARING WALLS.
- PROVIDE (2) 2x POST, EACH END OF ALL BEAMS & GIRDER TRUSSES, UNO. PROVIDE CONTINUOUS LOAD PATH TO FOUNDATION WITH POSTS, CRIPPLES, AND SQUASH BLOCKS AS REQUIRED.
- BEAM AND HEADER SIZES INDICATED ON THE PLANS ARE MINIMUM SIZES. LARGER SIZES MAY BE INSTALLED AT THE CONTRACTOR'S OPTION.
- CONTINUOUS TOP PLATE MAY BE USED IN LIEU OF STRAP FROM BEAM

KING STUD & TRIMMER SCHEDULE					
NUMBER OF KS / TS	(1) KS / (1) TS	(2) KS / (2) TS	(3) KS / (2) TS		
WALL SIZE	MAX OPENING WIDTH				
2x4	2'-8"	7'-0"	12'-0"		

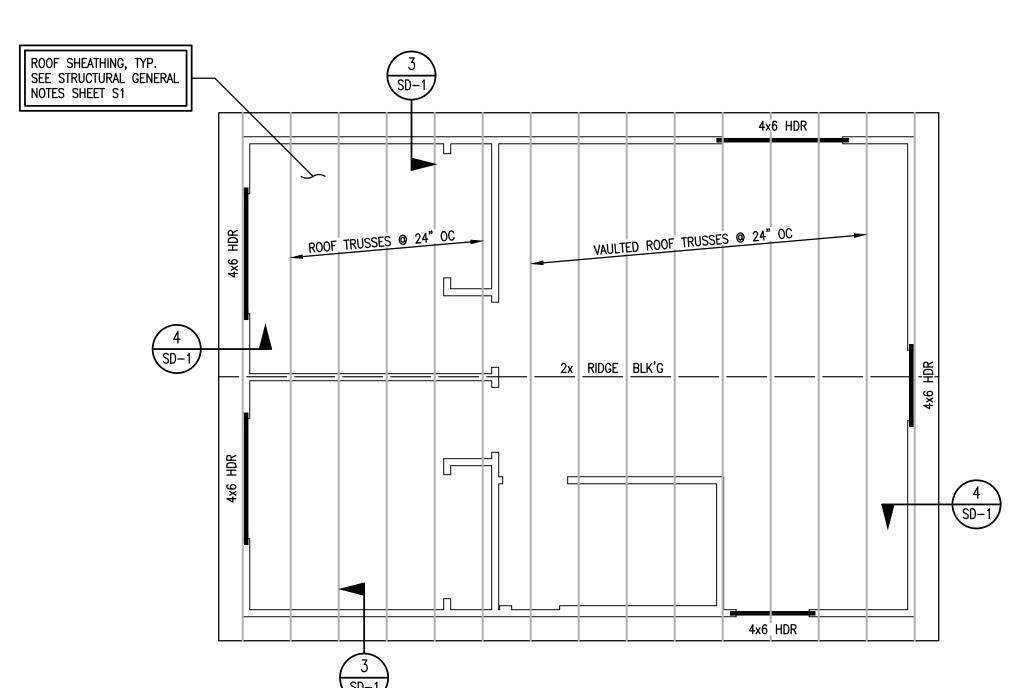
NOTES:

1. THE NUMBER OF KING STUDS AND TRIMMERS ARE TO BE INSTALLED AS SHOWN IN THE SCHEDULE, UNO ON PLANS.

2. FACE NAIL MULTIPLE STUDS w/ 16d SINKERS @ 6" OC.



FOUNDATION PLAN



ROOF FRAMING PLAN

1/4" = 1'-0"

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