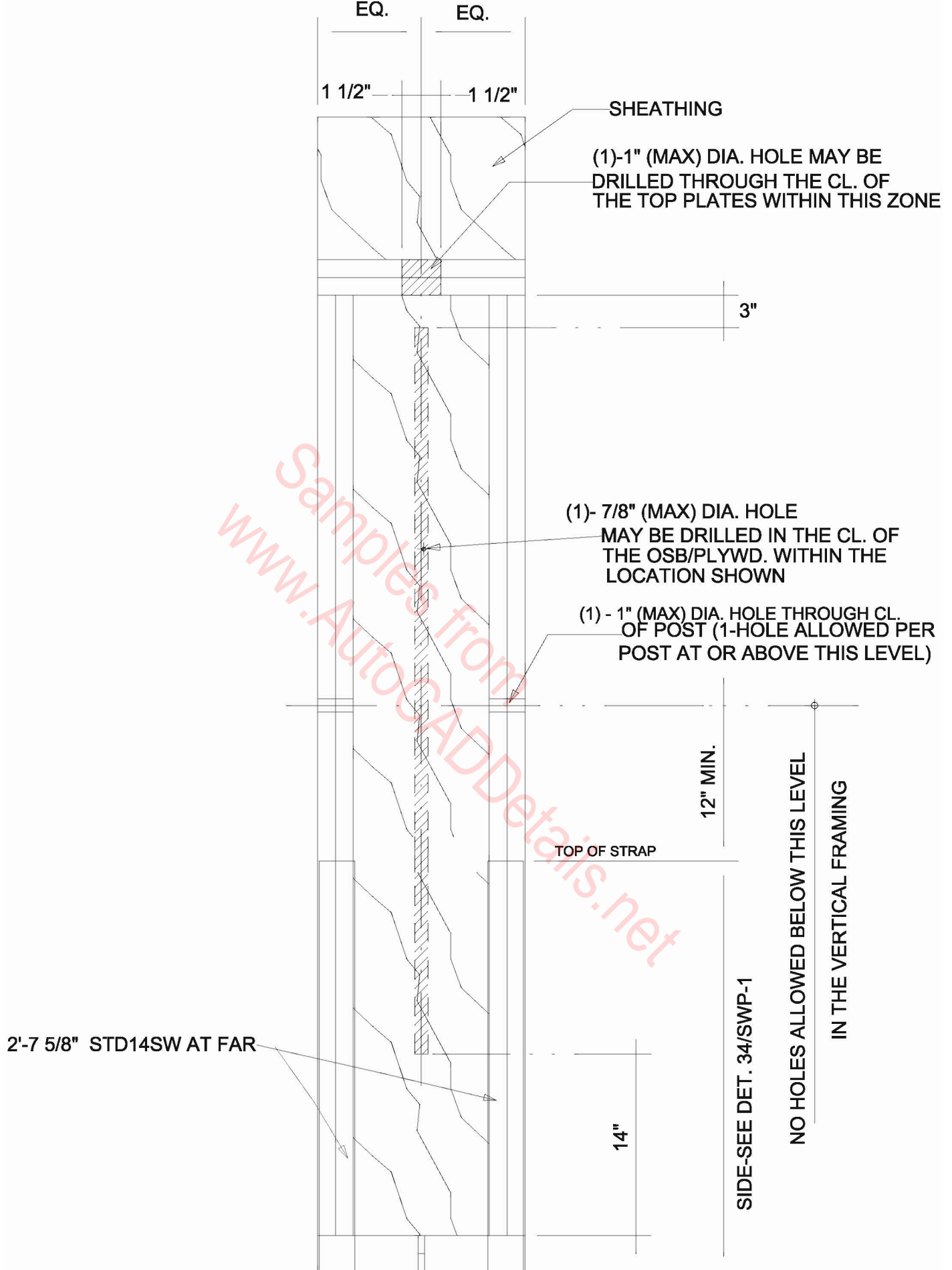


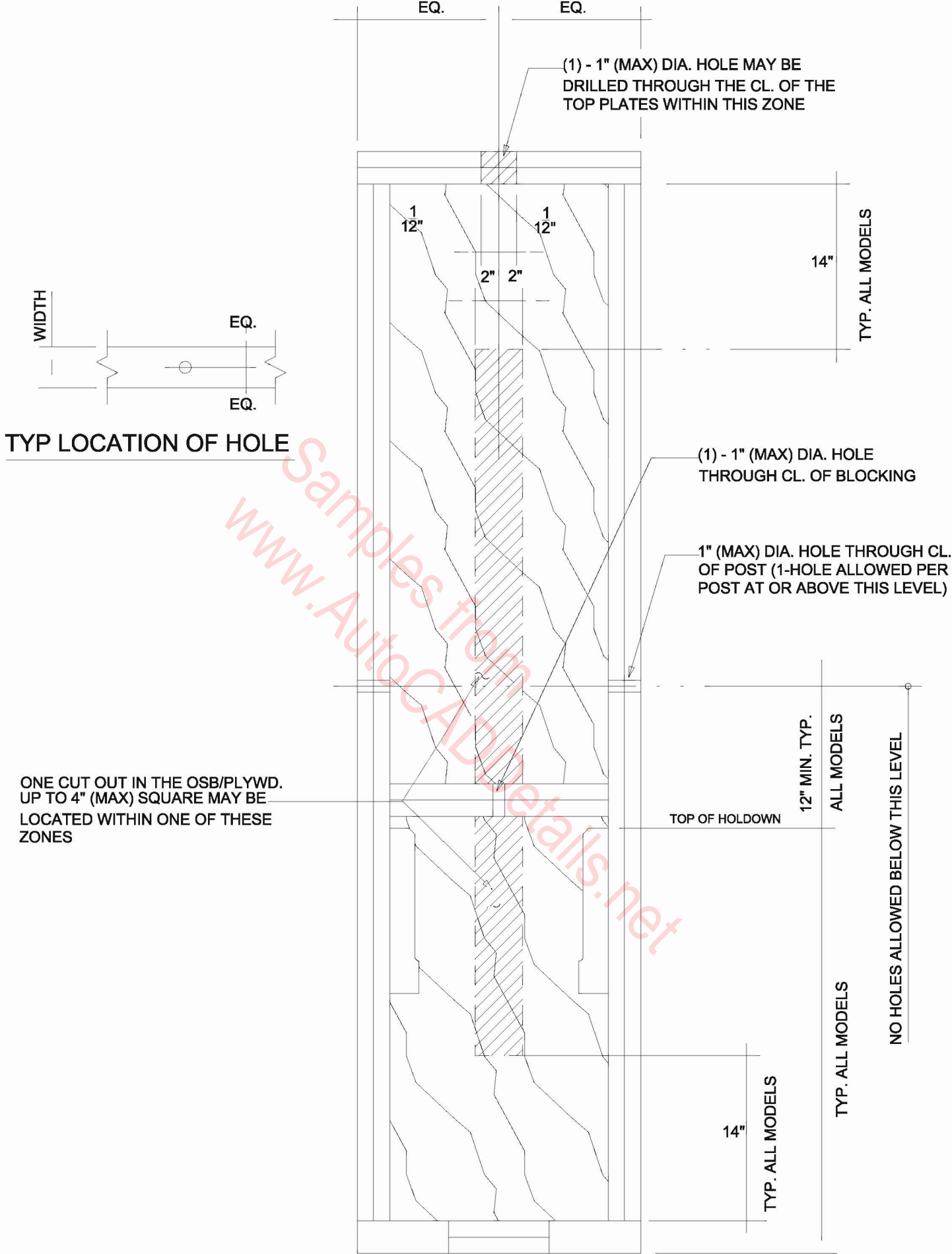
SW16x7HD AND SW22x7

ALLOWABLE HOLE LOCATIONS



SW16x7

ALLOWABLE HOLE LOCATIONS

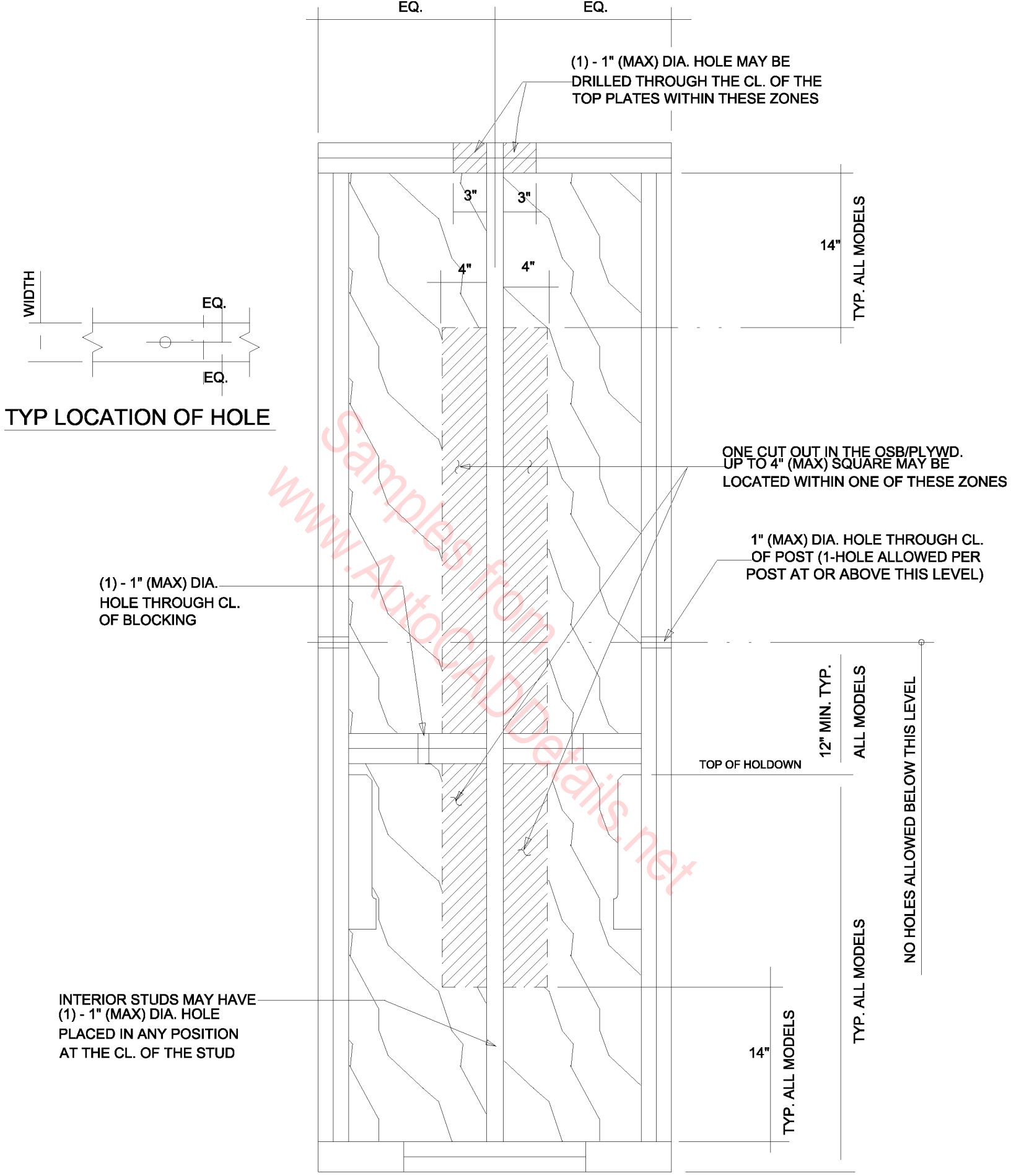


TYP LOCATION OF HOLE

ONE CUT OUT IN THE OSB/PLYWD. UP TO 4" (MAX) SQUARE MAY BE LOCATED WITHIN ONE OF THESE ZONES

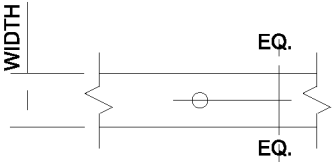
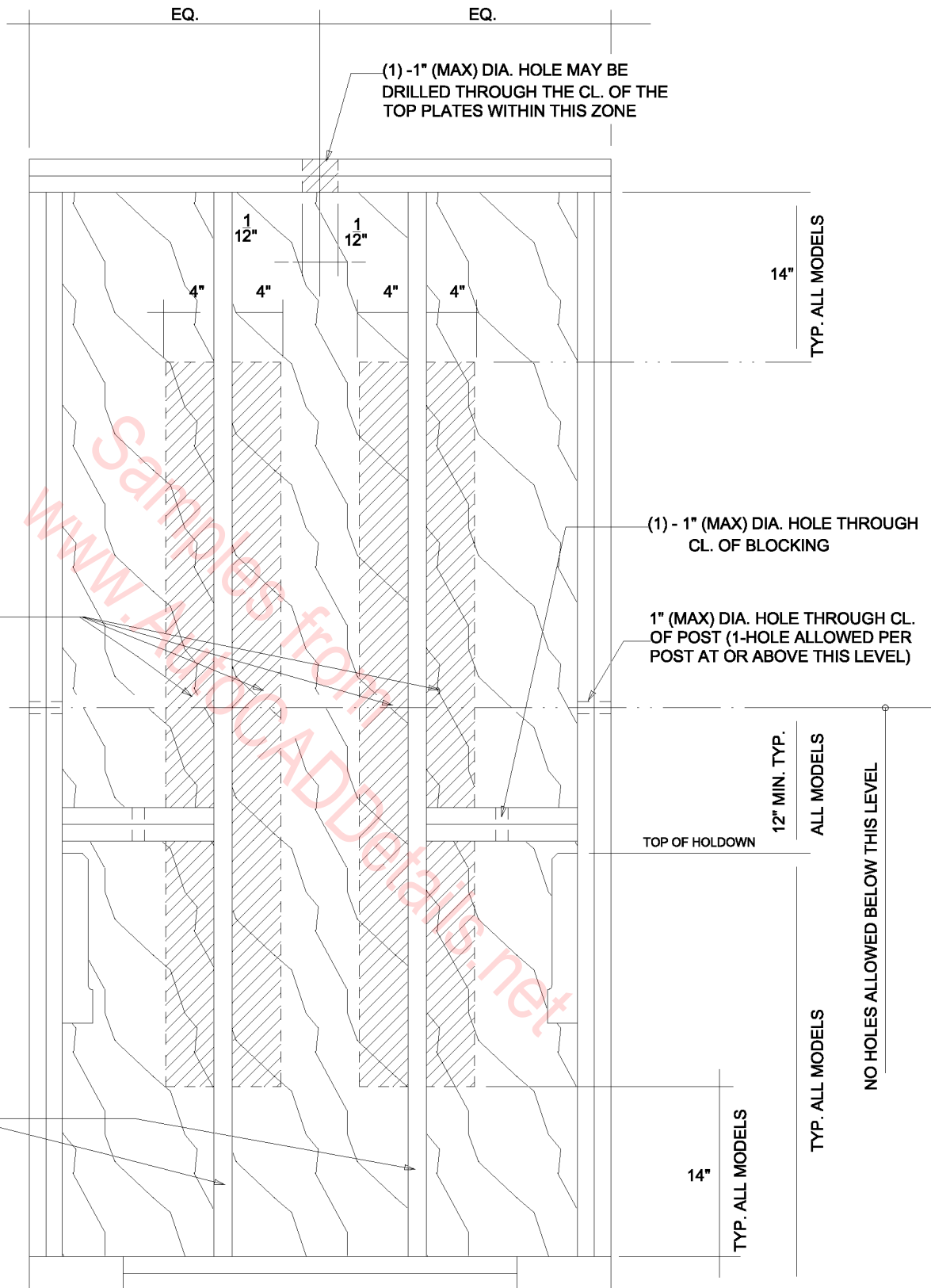
MODEL SW24

ALLOWABLE HOLE LOCATIONS



MODEL SW32

ALLOWABLE HOLE LOCATIONS



TYP LOCATION OF HOLE

ONE CUT OUT IN THE OSB/PLYWD. UP TO 4" (MAX) SQUARE MAY BE LOCATED WITHIN ONE OF THESE ZONES

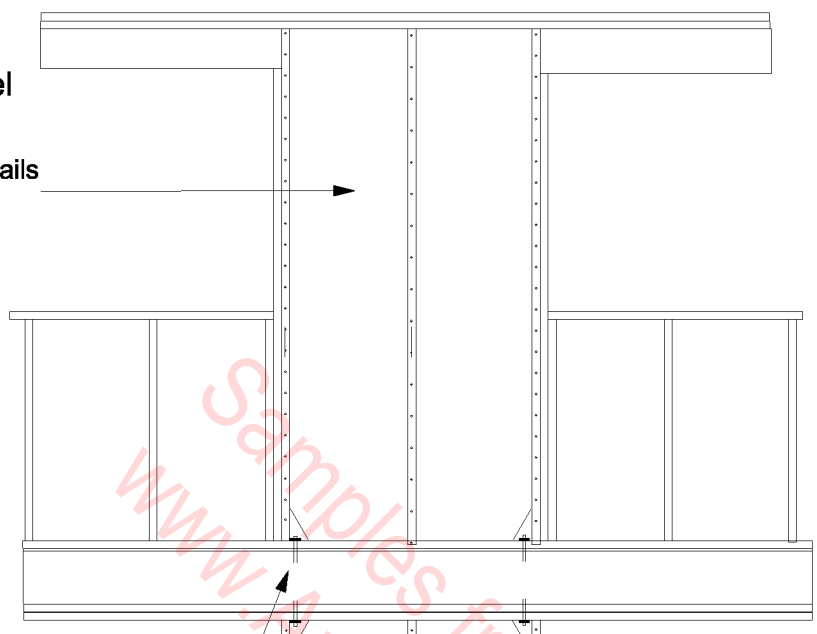
INTERIOR STUDS MAY HAVE (1) -1" (MAX) DIA. HOLE PLACED IN ANY POSITION AT THE CL. OF THE STUD

MODEL SW48

ALLOWABLE HOLE LOCATIONS

Alternate Brace Panel

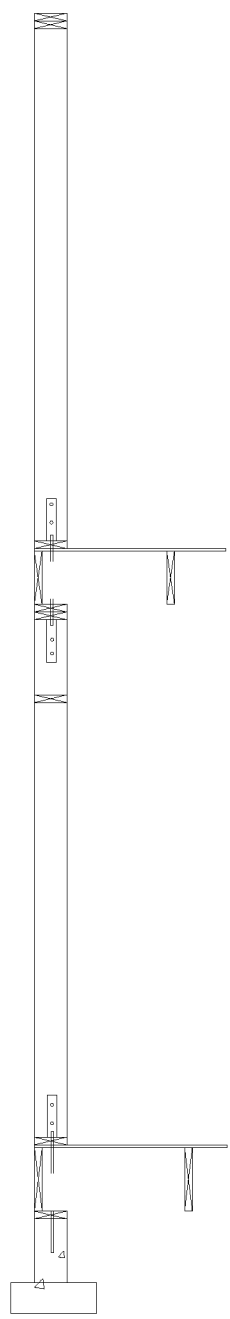
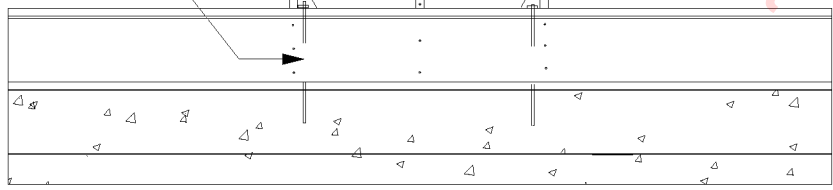
3/8" min. plywood
8d common or galv. box nails
@ 6" panel edges & 12"
intermediate supports.



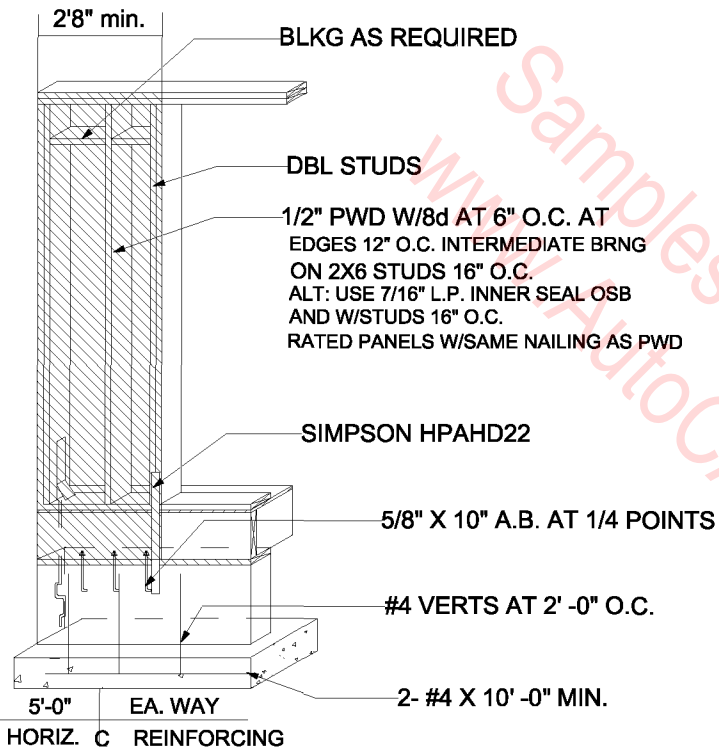
Tie-down device @ each panel end stud
w/1,800 pounds min. uplift capacity.

BRACE PANEL

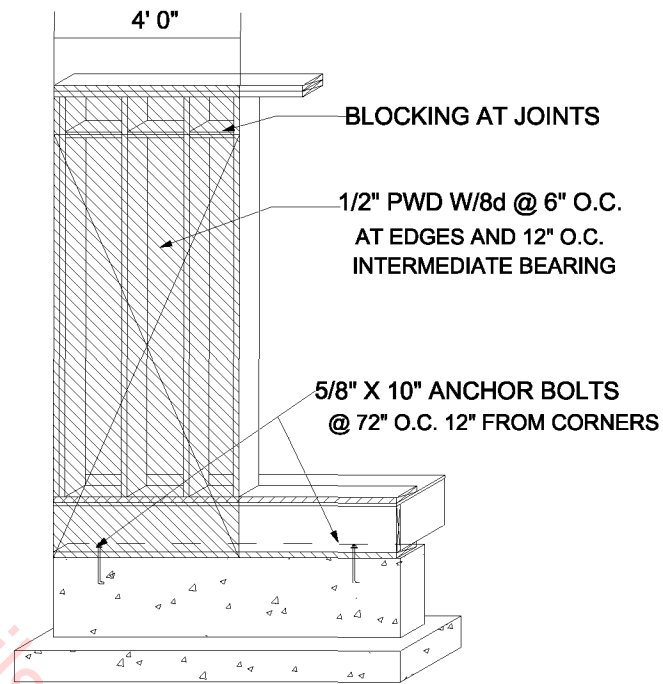
Tie-down device @ each panel end stud
w/1,800 pounds min. uplift capacity.



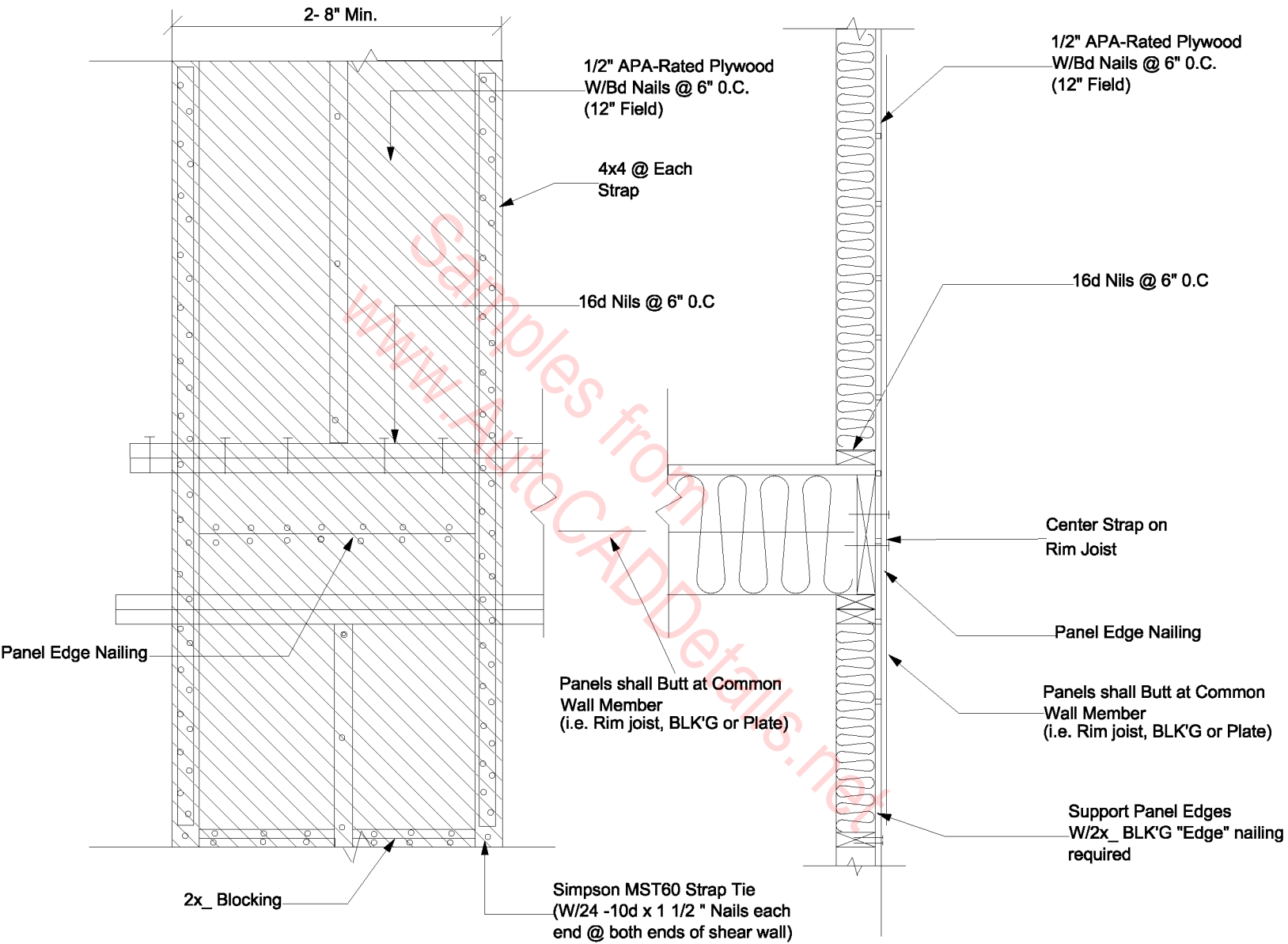
**ALTERNATE BRACE PANEL
AT SECOND FLOOR**



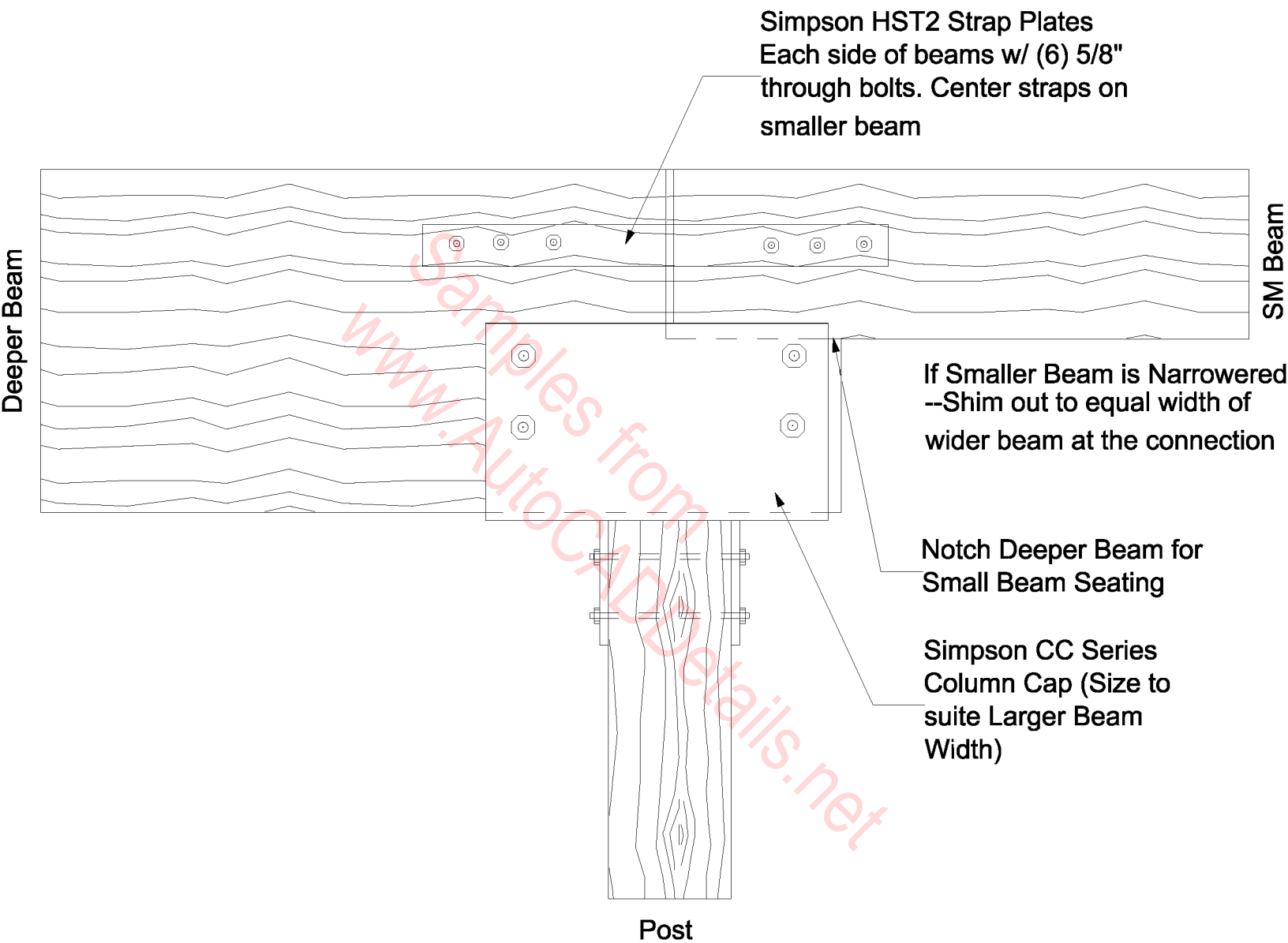
ALT. BRACE PANEL (ABP)



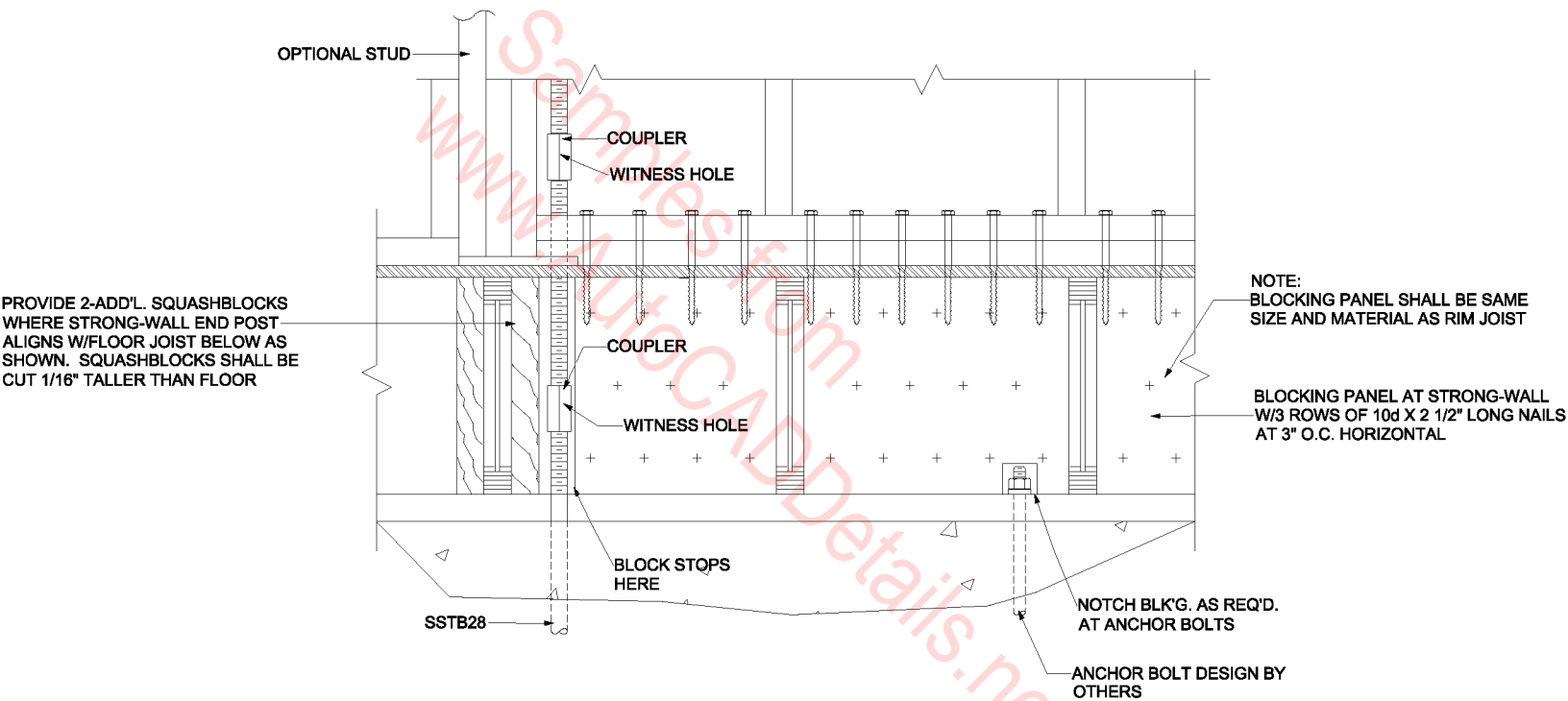
BRACE PANEL (BP)



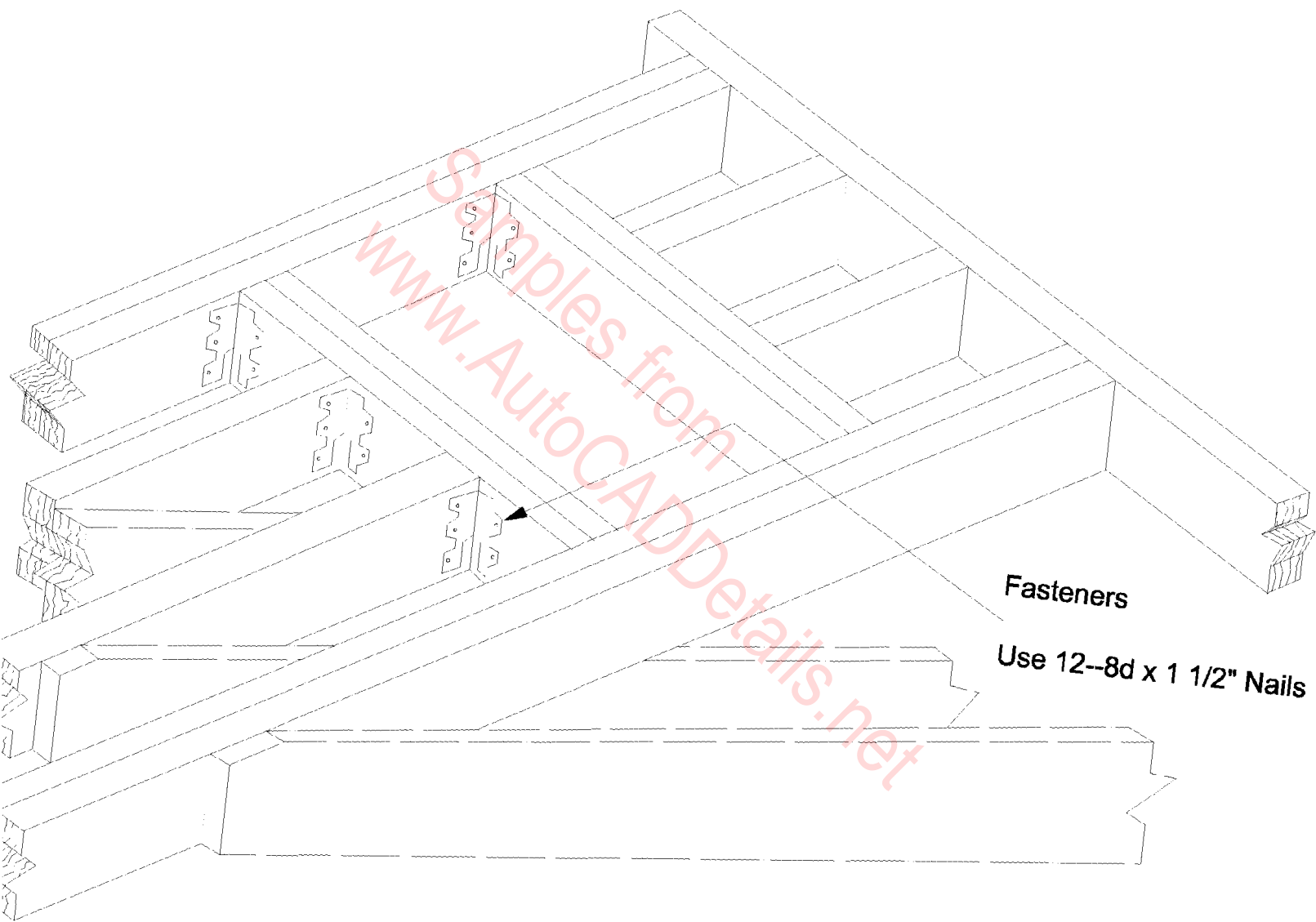
Alternate Braced Panel Detail



BEAM CONNECTION
(Joining unequal beams over posts)



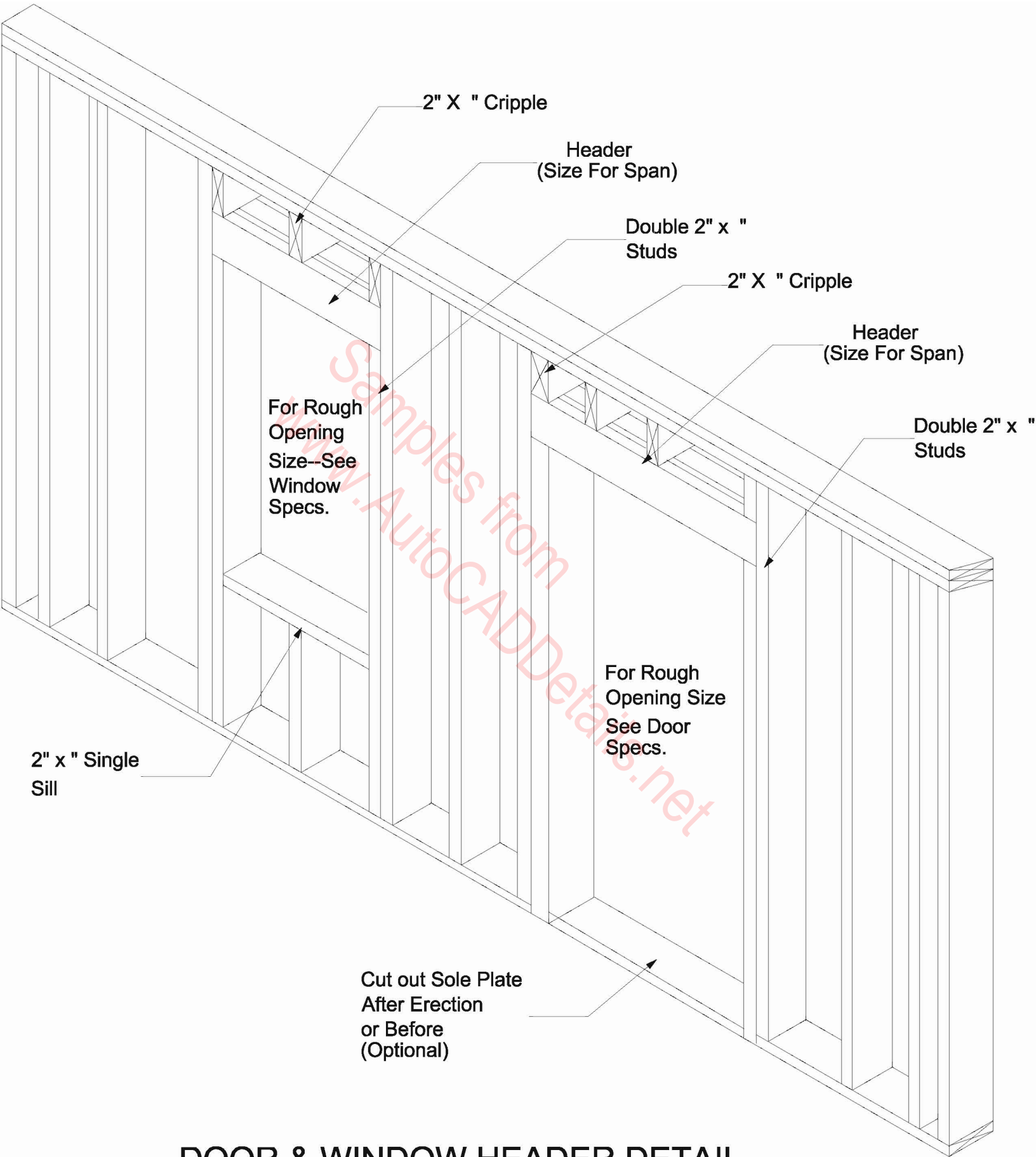
BOTTOM OF STRONG-WALL, JOIST ALIGNED WITH END POST



Fasteners

Use 12--8d x 1 1/2" Nails

Chimney Framing
Using A35 Framing Anchors



DOOR & WINDOW HEADER DETAIL

DOUBLE TOP
PLATE

TOP PLATE

SHIM INSIDE
SURFACE

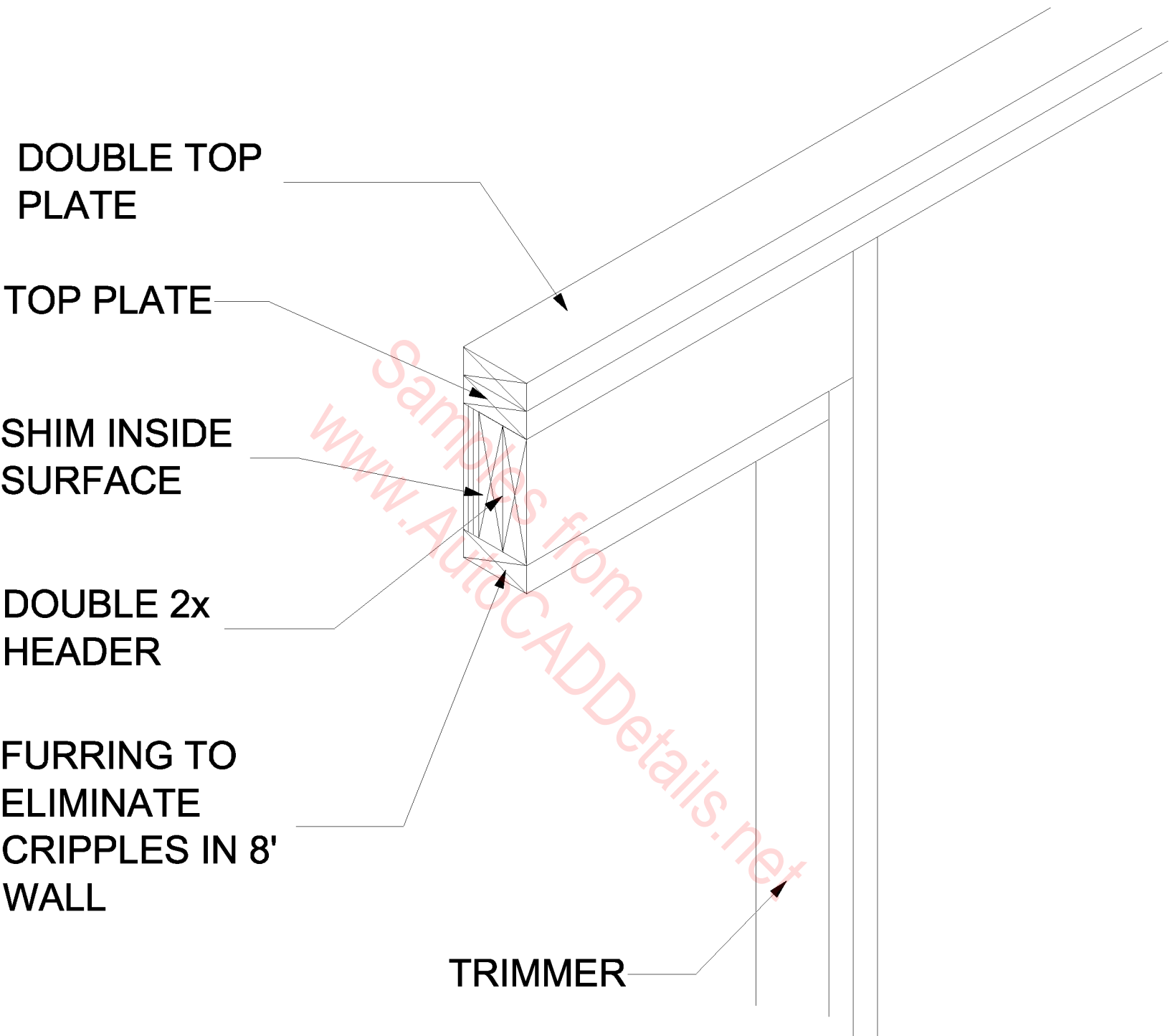
DOUBLE 2x
HEADER

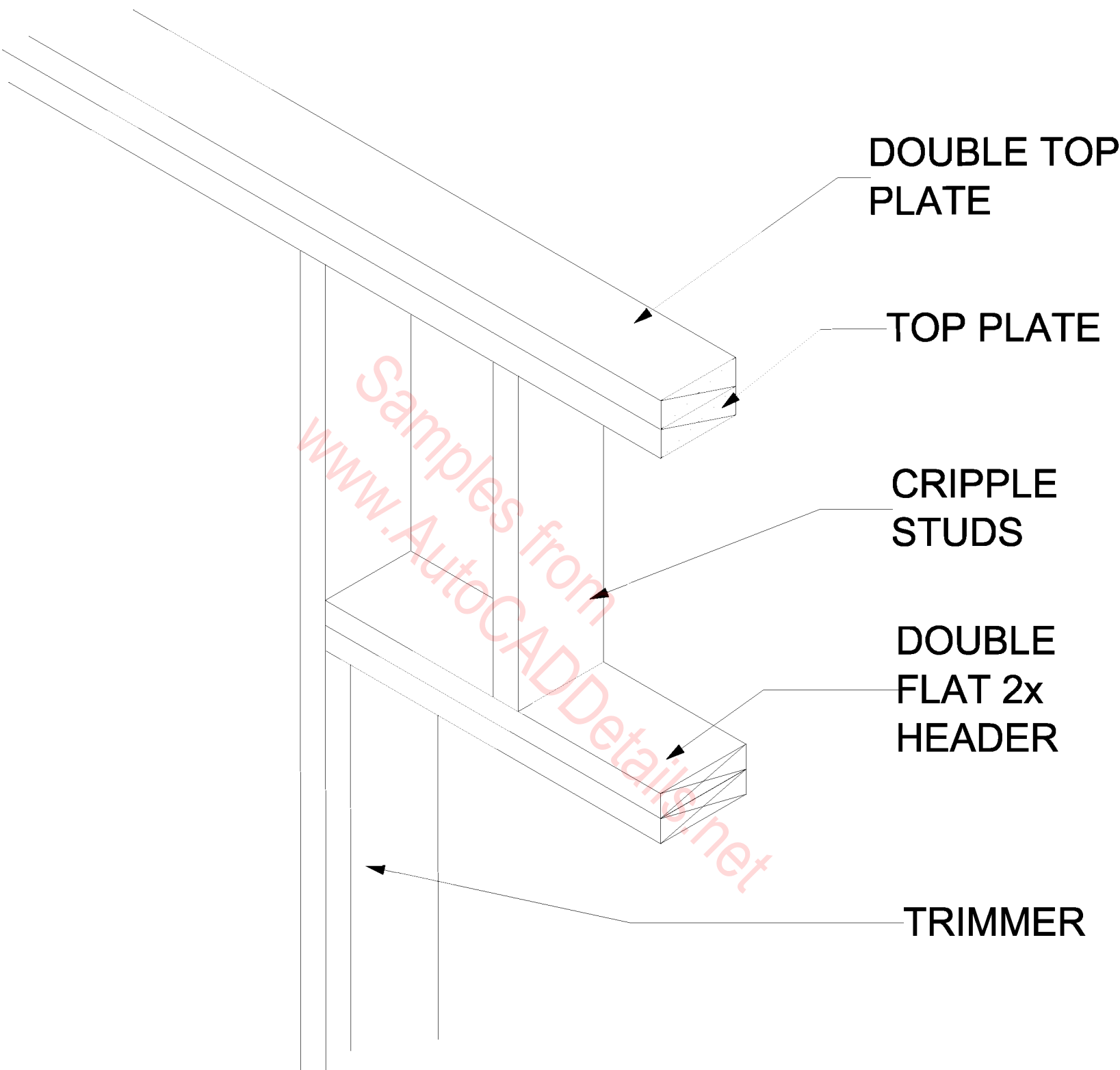
FURRING TO
ELIMINATE
CRIPPLES IN 8'
WALL

TRIMMER

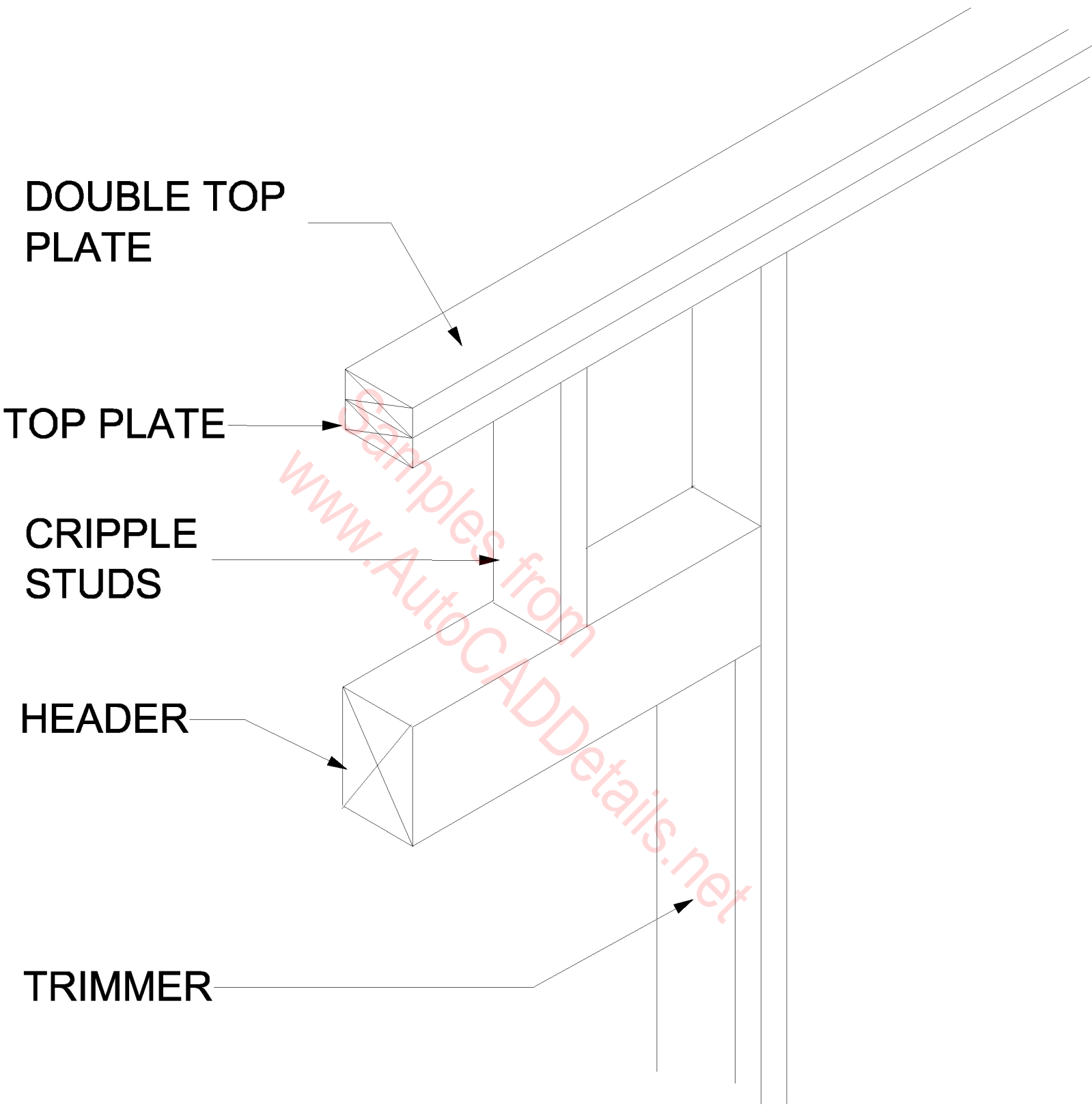
FRAMING-HEADER
DOUBLE 2x CRIPPLESS

Samples from
www.AutocADDetails.net

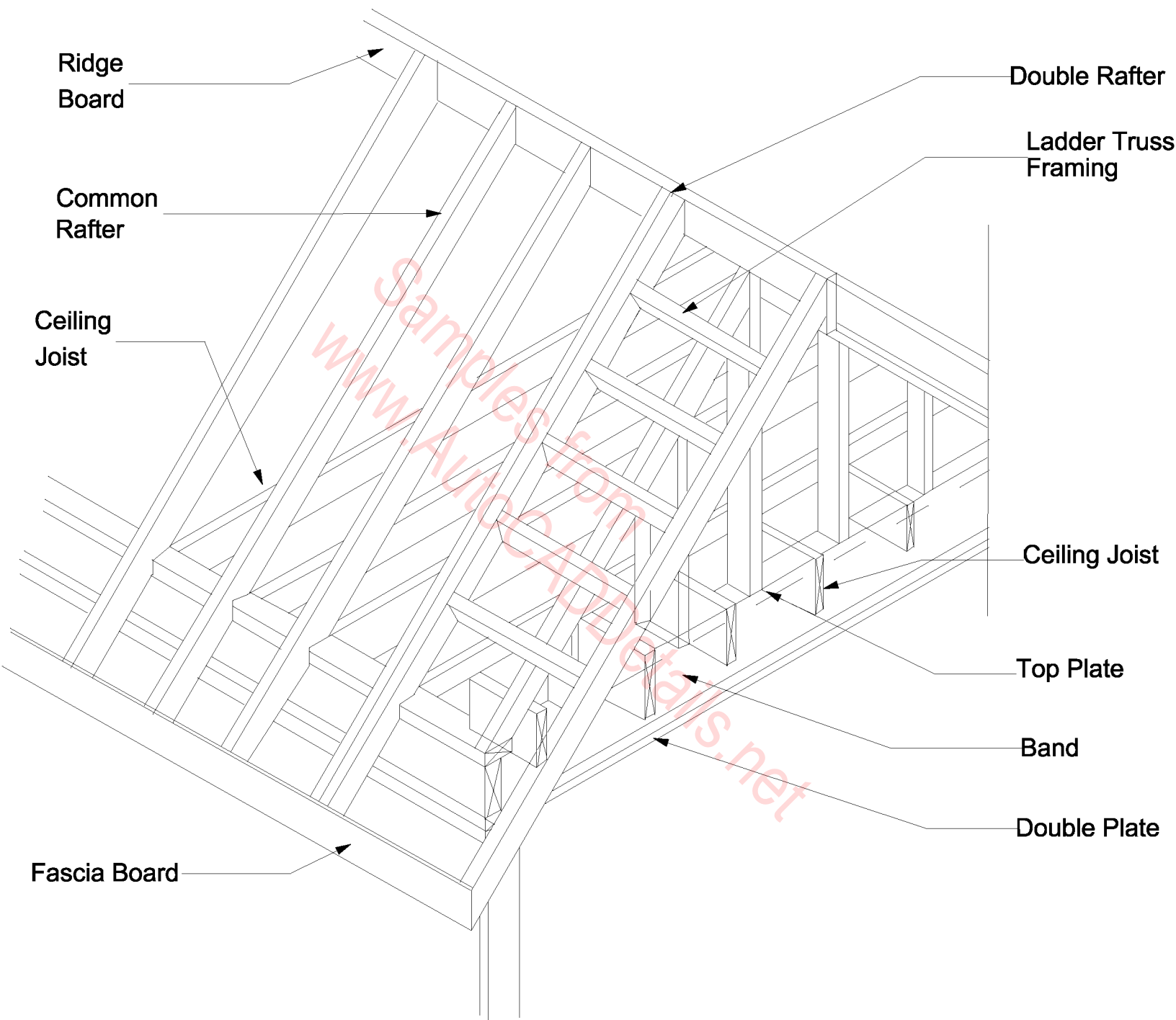




**FRAMING-HEADER
FLAT DOUBLE 2x**

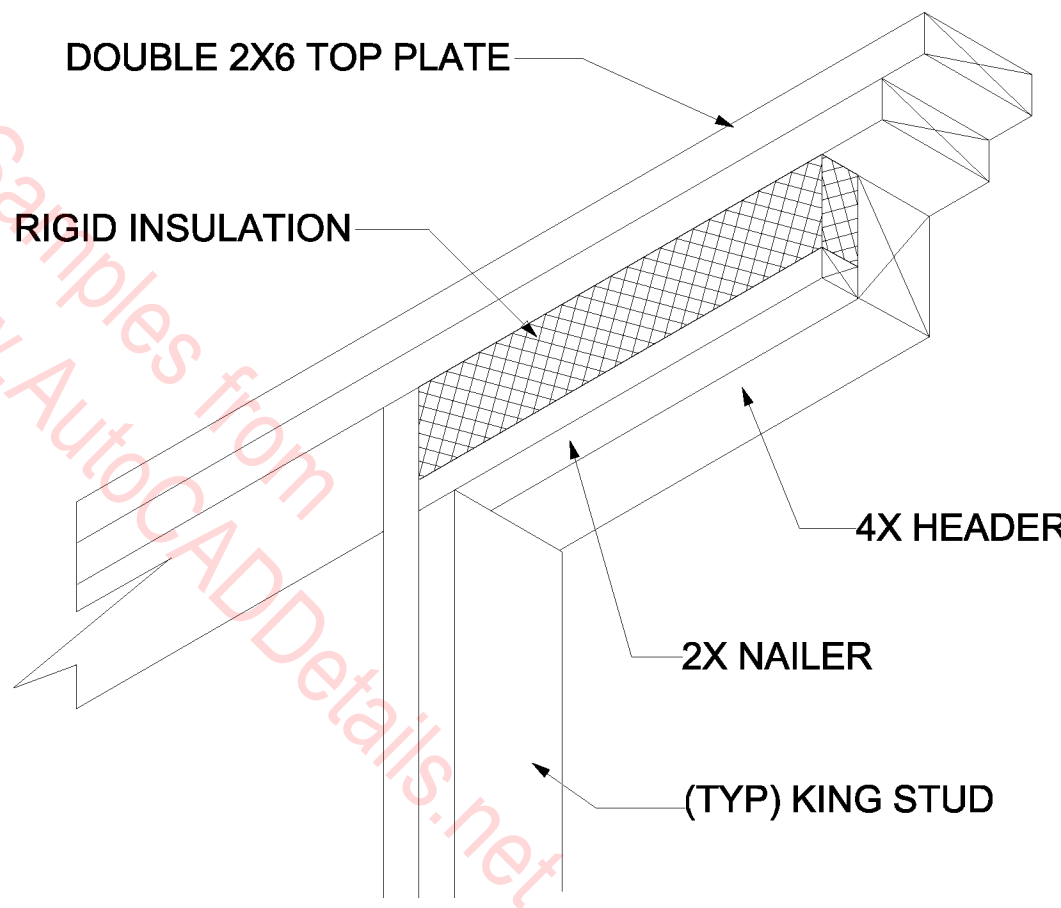


**SOLID
FRAMING-HEADER**

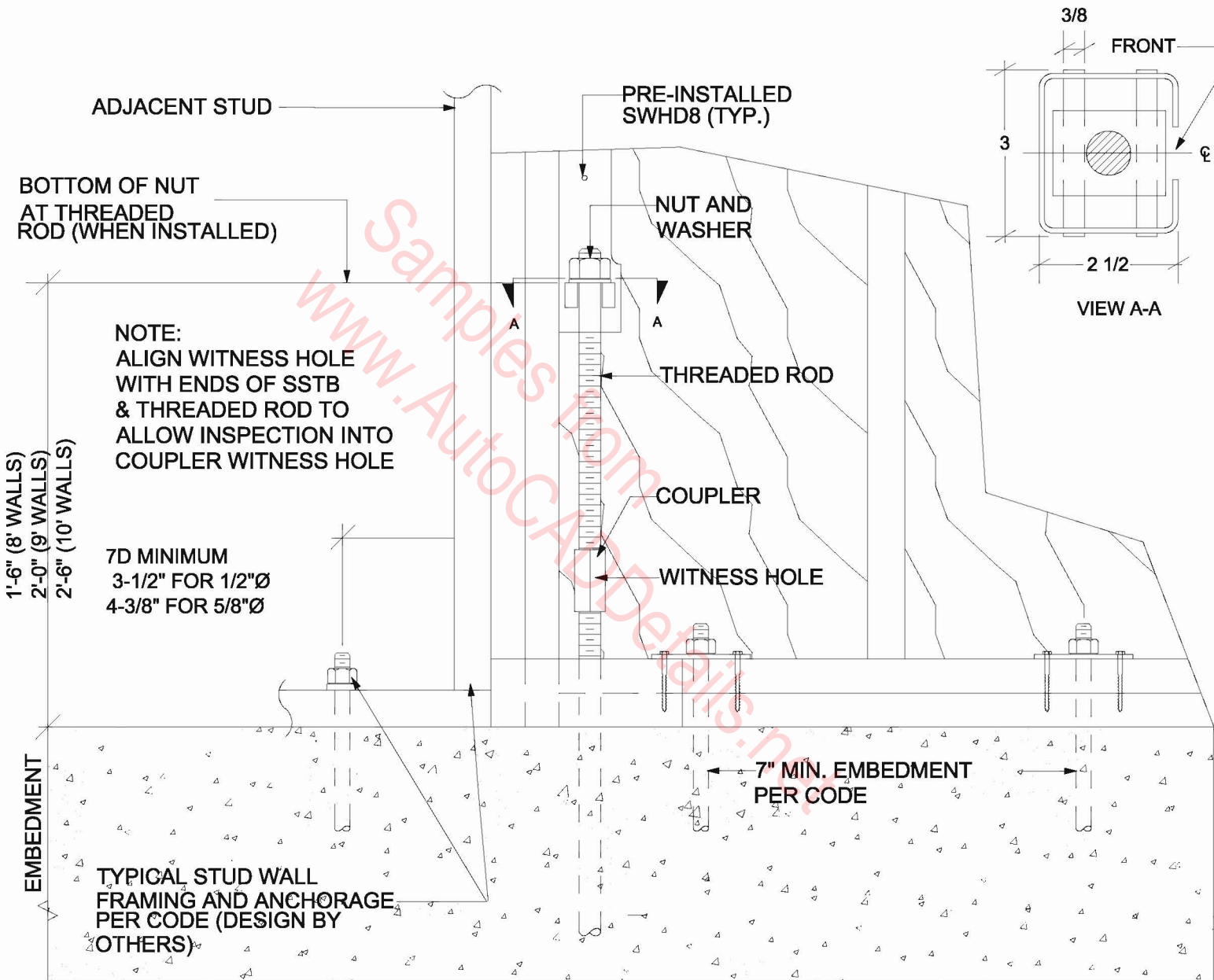


GABLE ROOF FRAMING DETAIL WITH OVERHANG

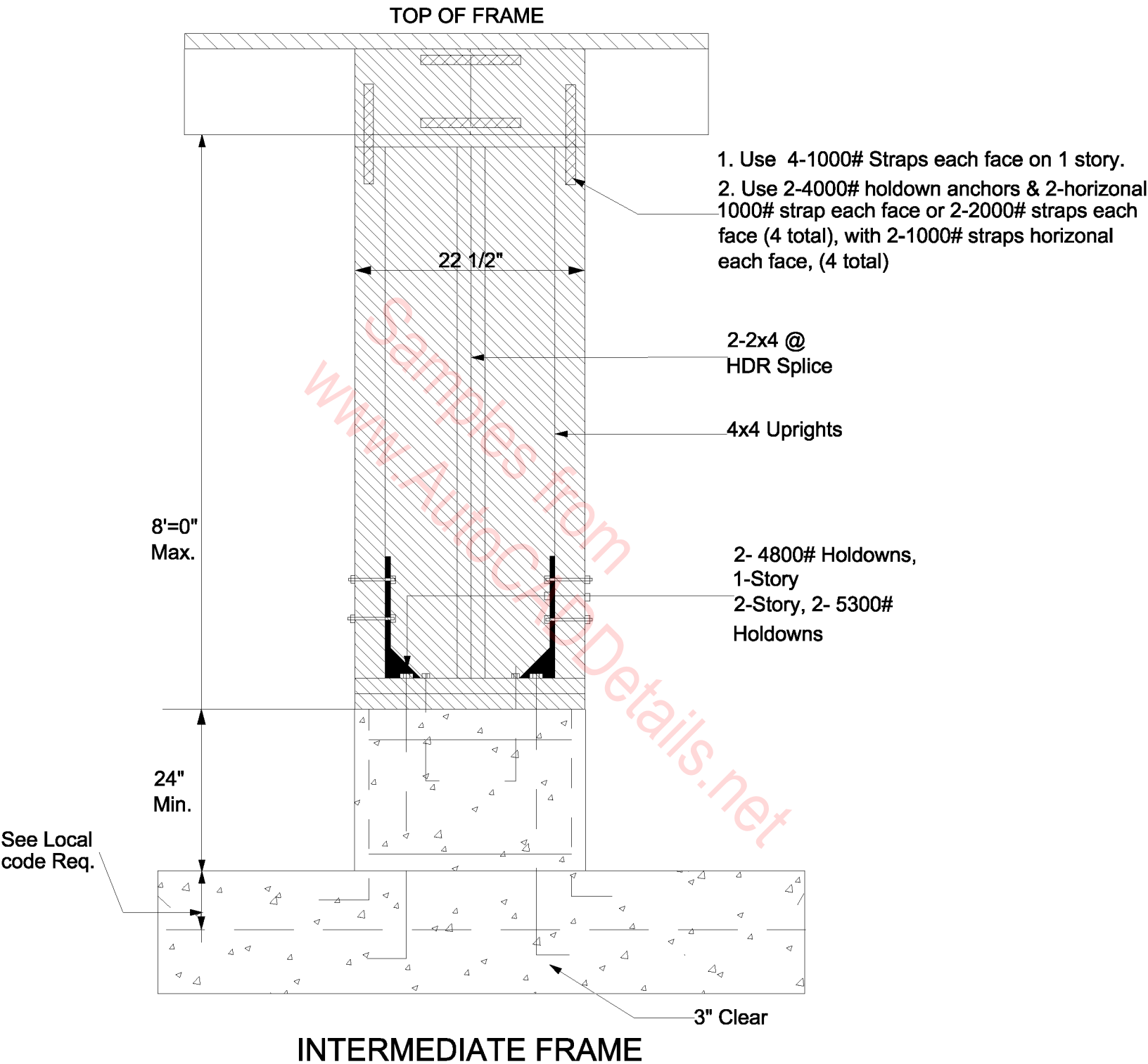
NOTE:
HEADERS #2 D.F. OR BETTER
UP TO 4' 4X6
4' TO 6' 4X8
6' TO 8' 4X10
OVER 8' AS DETAILED



4X HEADER IN EXTERIOR WALL



HOLDOWN BOLT CONNECTION



NOTE: This is not an alternate brace panel

- 2 Straps Front & Back
- 4 Straps Per Panel
- 8 Straps Total Per Panel
- Min. 1000# each

NO ADDITIONAL WALL FRAMING ALLOWED

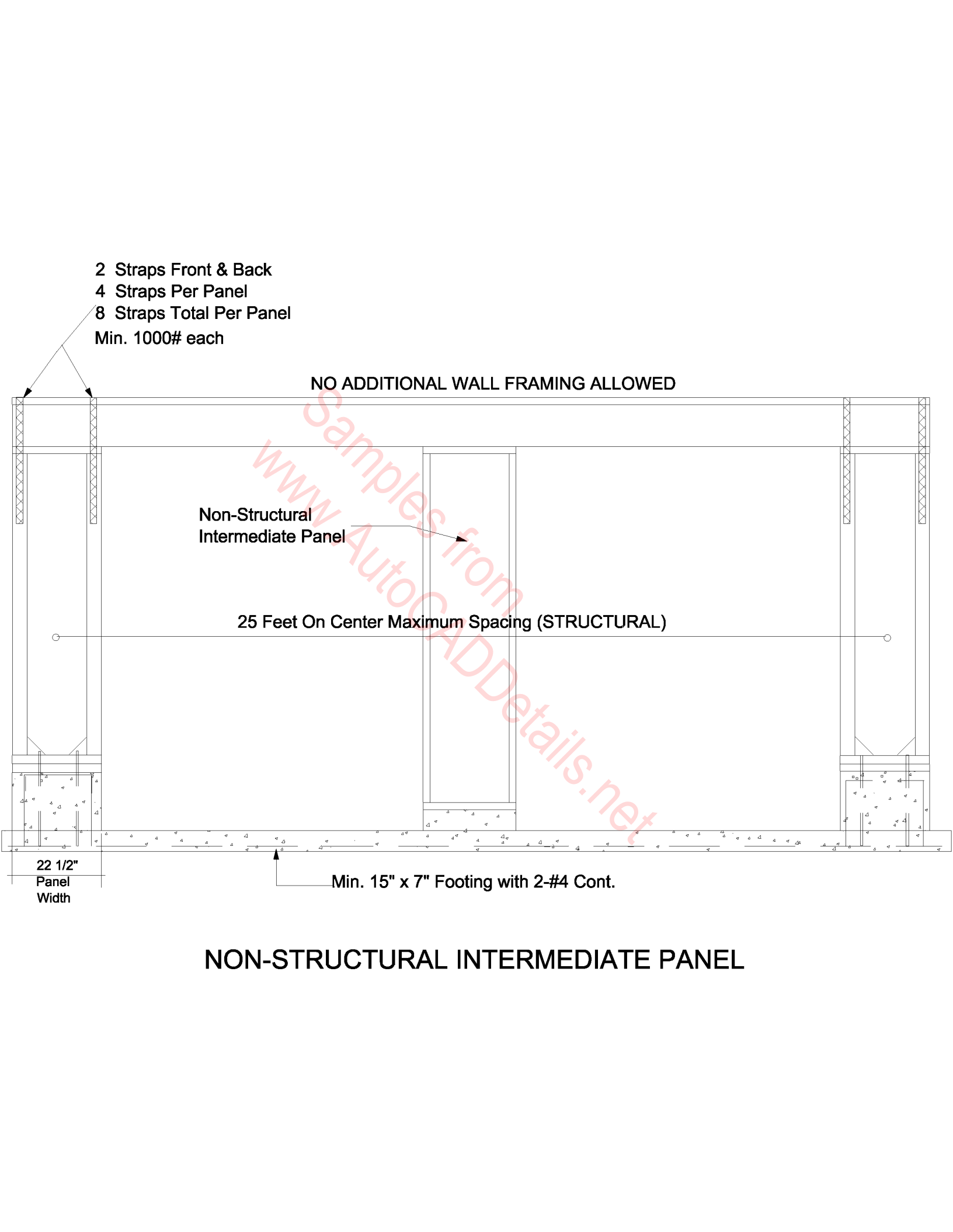
Non-Structural
Intermediate Panel

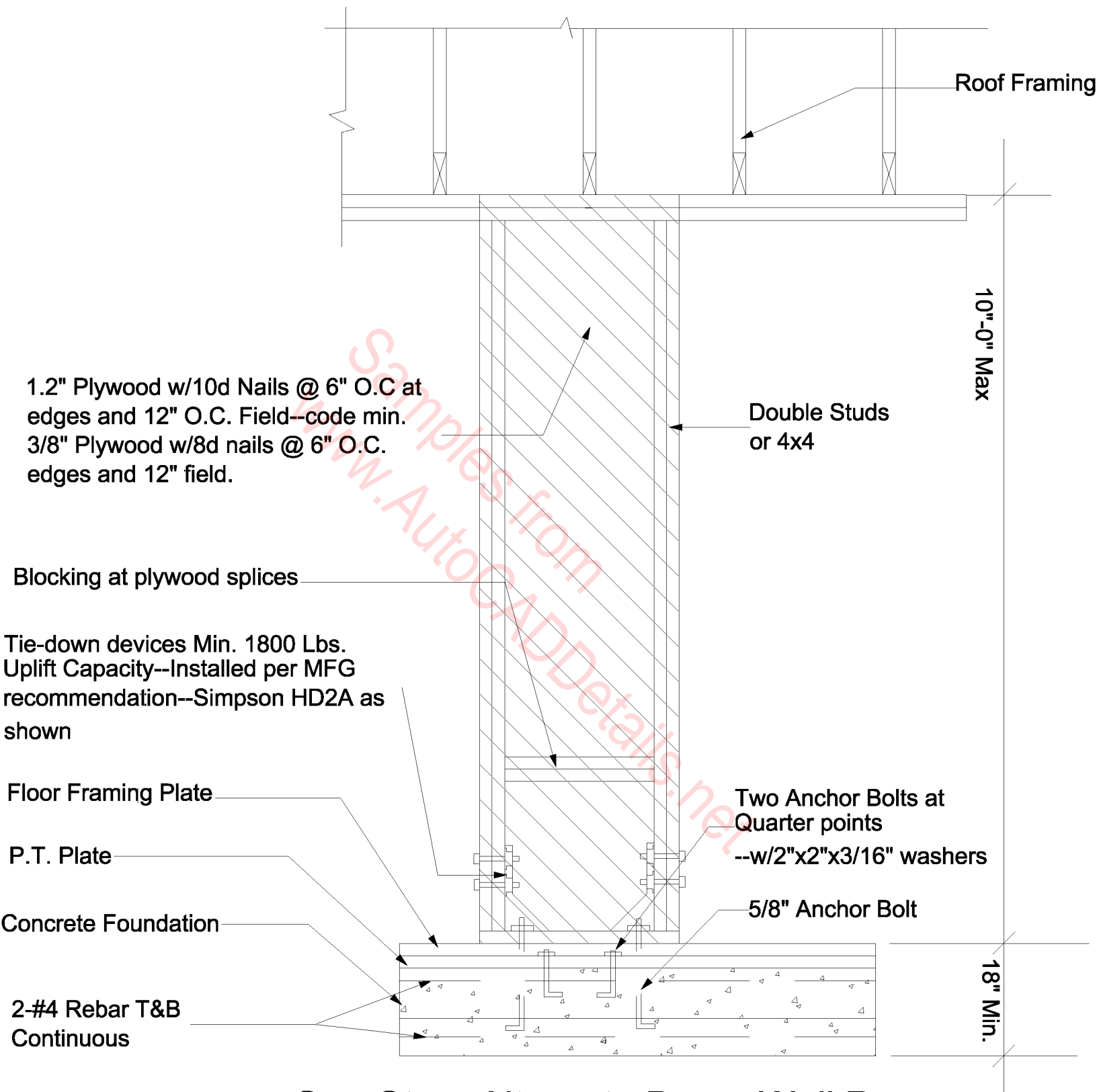
25 Feet On Center Maximum Spacing (STRUCTURAL)

22 1/2"
Panel
Width

Min. 15" x 7" Footing with 2-#4 Cont.

NON-STRUCTURAL INTERMEDIATE PANEL

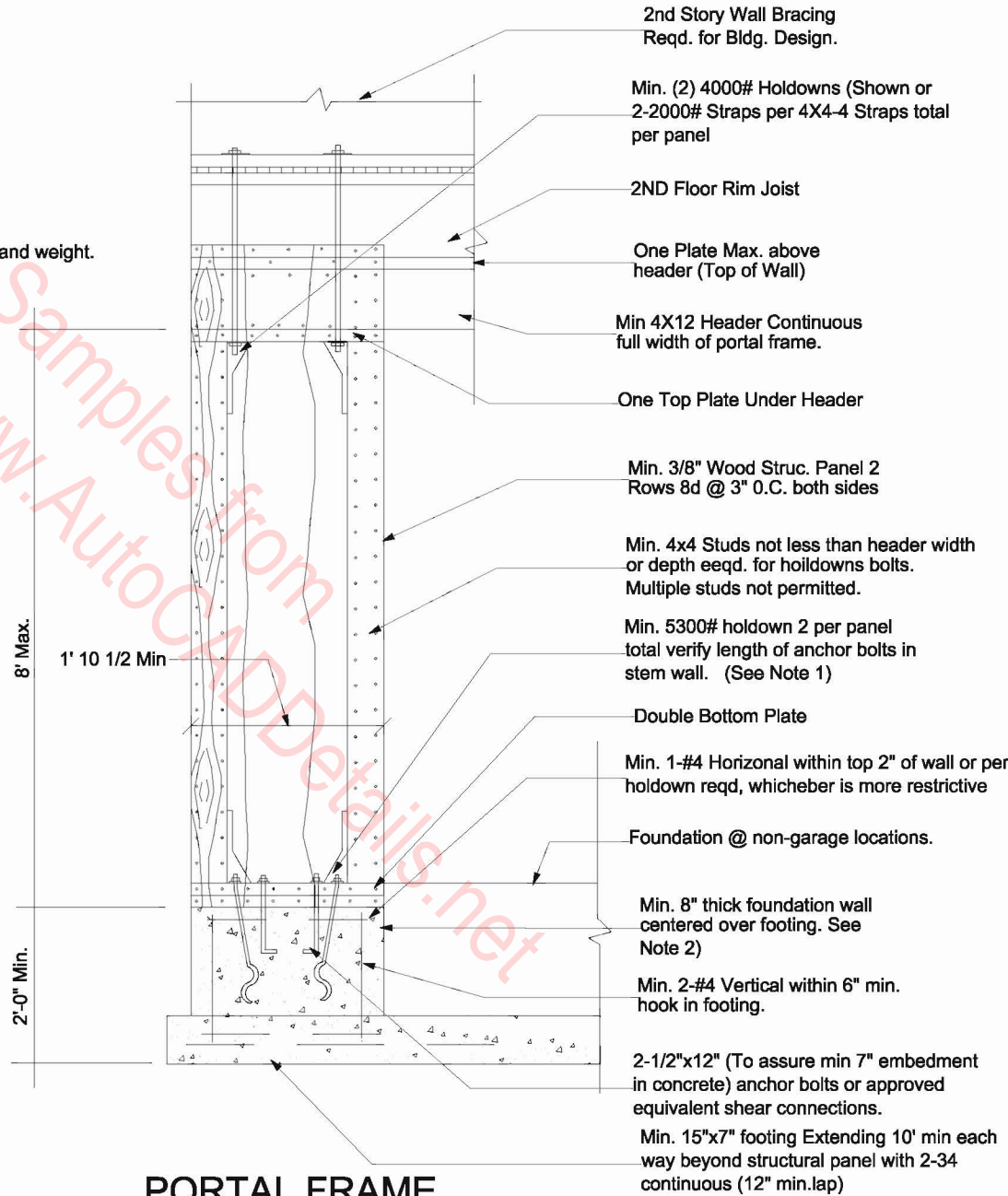




**One Story Alternate Brace Wall Pane
(2'-8" Panel)**

NOTE 1: TYPICAL 5300# Rated Hold Downs
 Example HD8A SSTB 7/8": See Simpson Catalog for
 correct installation. Use correct spacing and fasteners.

NOTE 2:
 1. Panel Spacing: 8' min. clear: 25' Max on center.
 2. Panels at each end of portal frame must be equal width and weight.
 Panels must be used in pairs with connecting headers.



2nd Story Wall Bracing
 Req'd. for Bldg. Design.

Min. (2) 4000# Holdowns (Shown or
 2-2000# Straps per 4X4-4 Straps total
 per panel

2ND Floor Rim Joist

One Plate Max. above
 header (Top of Wall)

Min 4X12 Header Continuous
 full width of portal frame.

One Top Plate Under Header

Min. 3/8" Wood Struc. Panel 2
 Rows 8d @ 3" O.C. both sides

Min. 4x4 Studs not less than header width
 or depth eq'd. for holddowns bolts.
 Multiple studs not permitted.

Min. 5300# holdown 2 per panel
 total verify length of anchor bolts in
 stem wall. (See Note 1)

Double Bottom Plate

Min. 1-#4 Horizontal within top 2" of wall or per
 holdown req'd, whichever is more restrictive

Foundation @ non-garage locations.

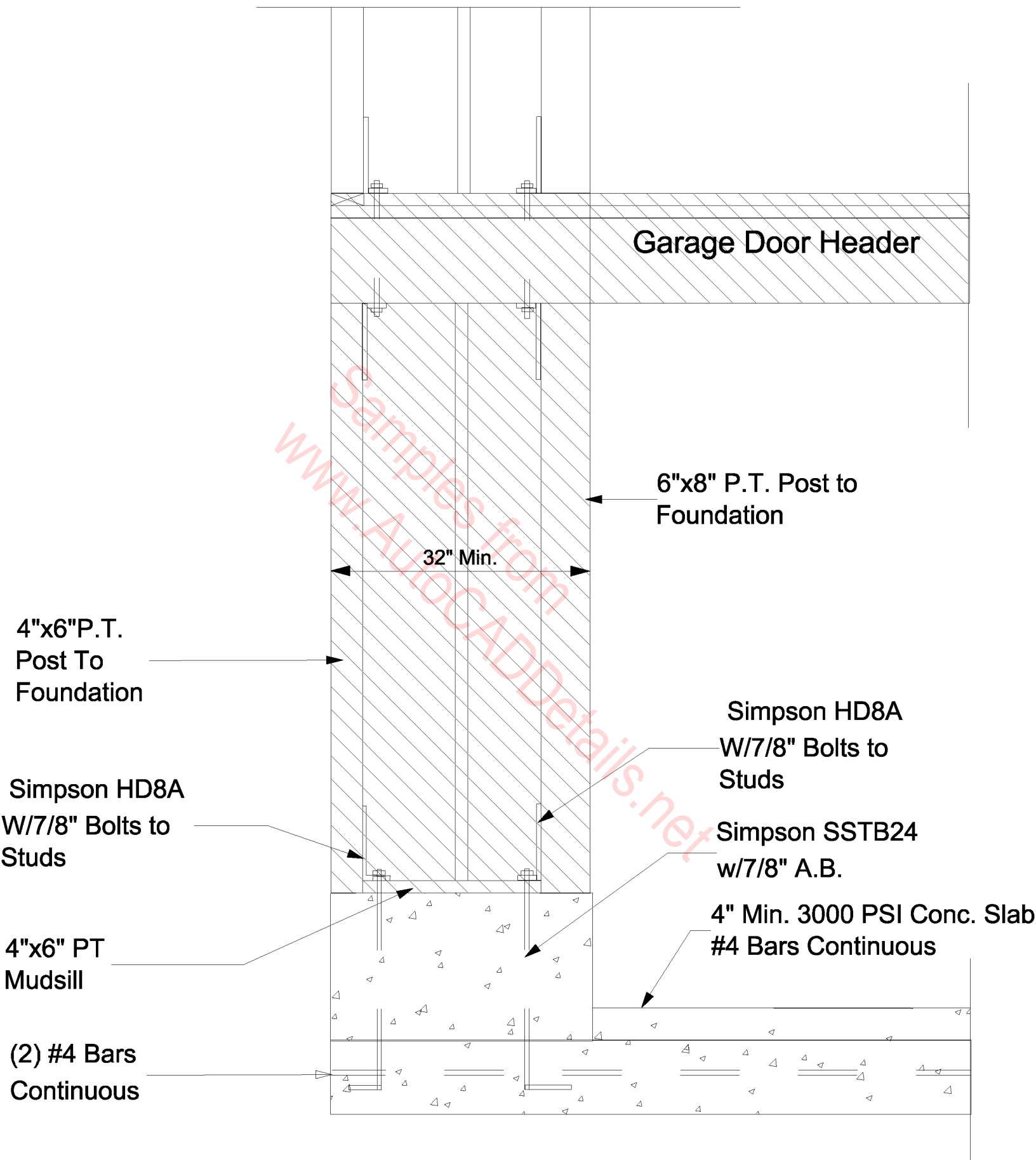
Min. 8" thick foundation wall
 centered over footing. See
 Note 2)

Min. 2-#4 Vertical within 6" min.
 hook in footing.

2-1/2"x12" (To assure min 7" embedment
 in concrete) anchor bolts or approved
 equivalent shear connections.

Min. 15"x7" footing Extending 10' min each
 way beyond structural panel with 2-34
 continuous (12" min.lap)

PORTAL FRAME
 1st Story of 2-Story Structure



PORTAL FRAME AT GARAGE

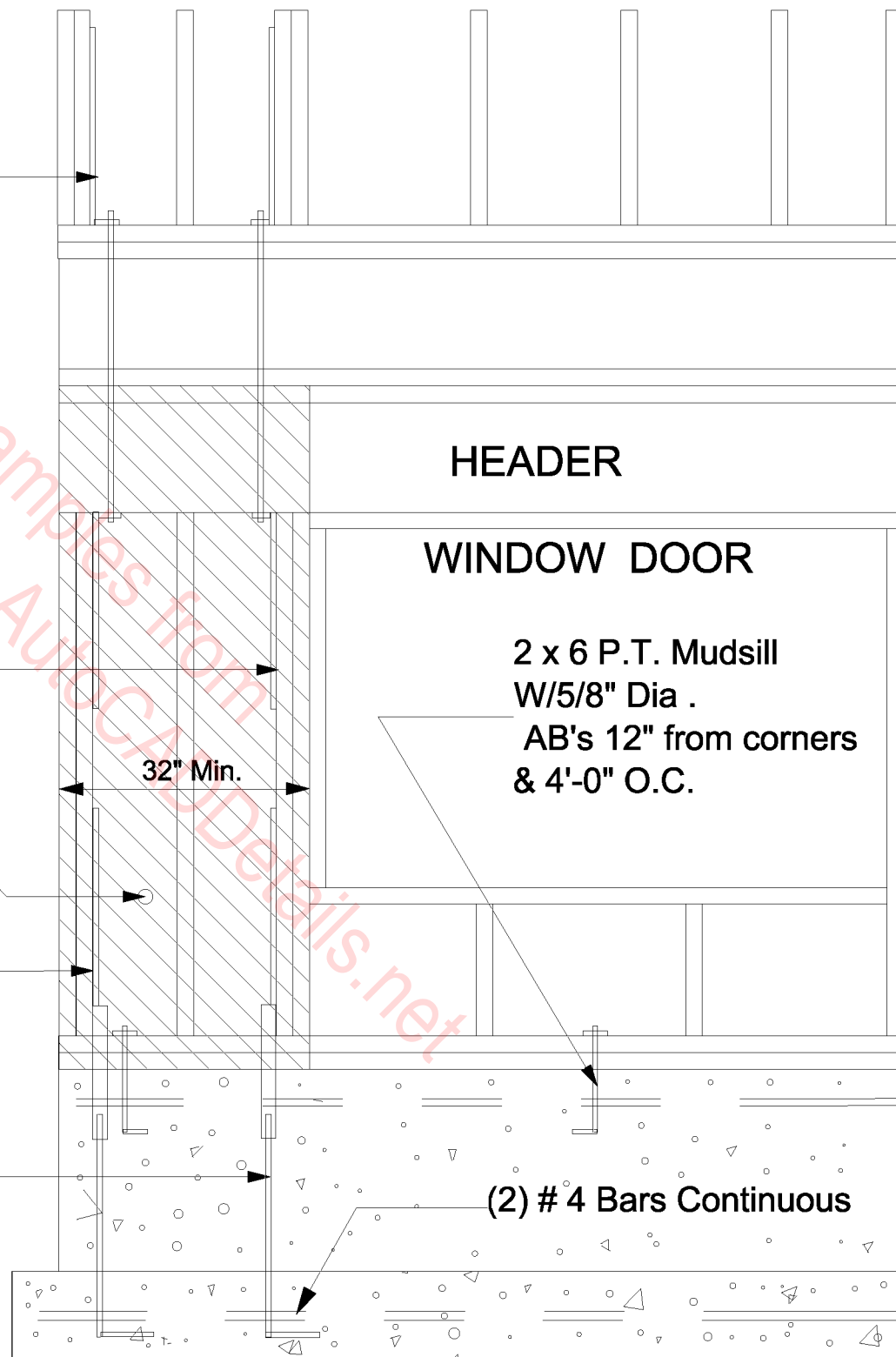
(2) Simpson LTT20
W/1/2" Threaded Rod

DBL Studs @ 2 x 6
Framing U.N.O.

1/2" CDX Shear Panel W/
10d nails @ 4" O.C. @
edges
& 12" O.C. Int. Typ Shear
Wall.

(2) Simpson FTM 43
Fas-Tie to Stem Wall

#4 Dowels "24/6"
into Foundation



PORTAL FRAME WALL TYP.

NOTES:

1. Vertical Dowels are #4 W/6" Leg.
2. Horizontal Wall Reinf. Min. 1-#4 or per holdown req. which ever is more restrictive.
3. Anchor Bolts are 2-1/2" x 12" Min. per PNL.
4. Roof is to be sheathed with A.P.A. Rated Structural use panels.

2 Straps front & Back
 4 Straps total each end
 8 Straps per frame
 Min. 1000# each.

TOP OF WALL

Min 4x12 Header Continuous
 (Note: Header width must be the same as support framing)

Header width to match wall framing
 Min. 4x4 each side

Min. 4800# Holdown
 2 per panel, 4 total

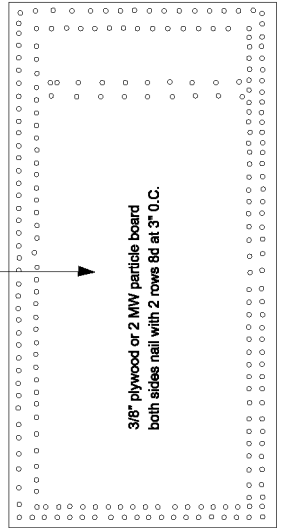
8'-0" Max

24" Min

22 1/2" Min.

Min 15"x7" Footing, W/2-#4 Cont. extend 10' beyond panel or corner.

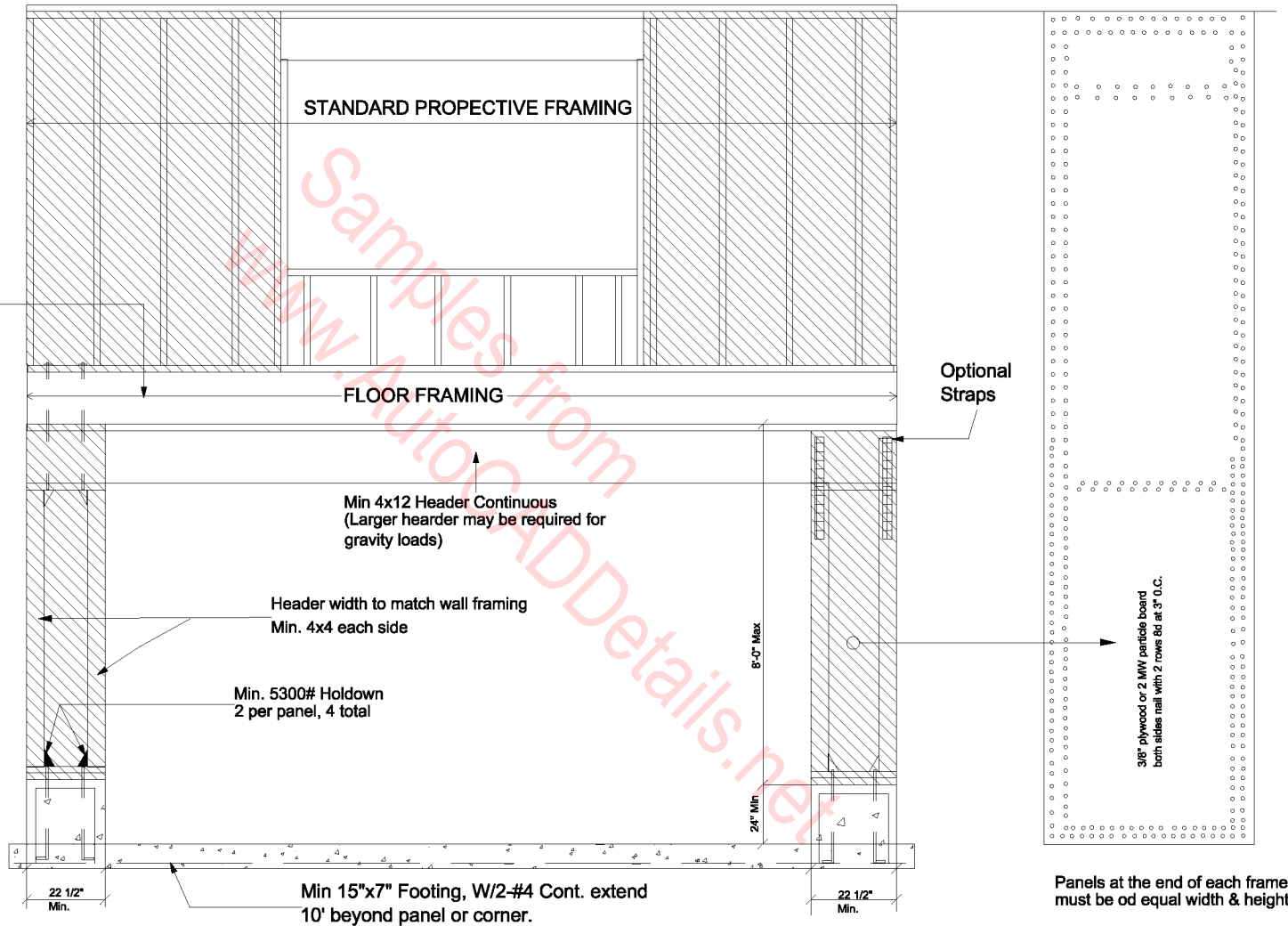
22 1/2" Min.



Panels at the end of each frame must be of equal width & height

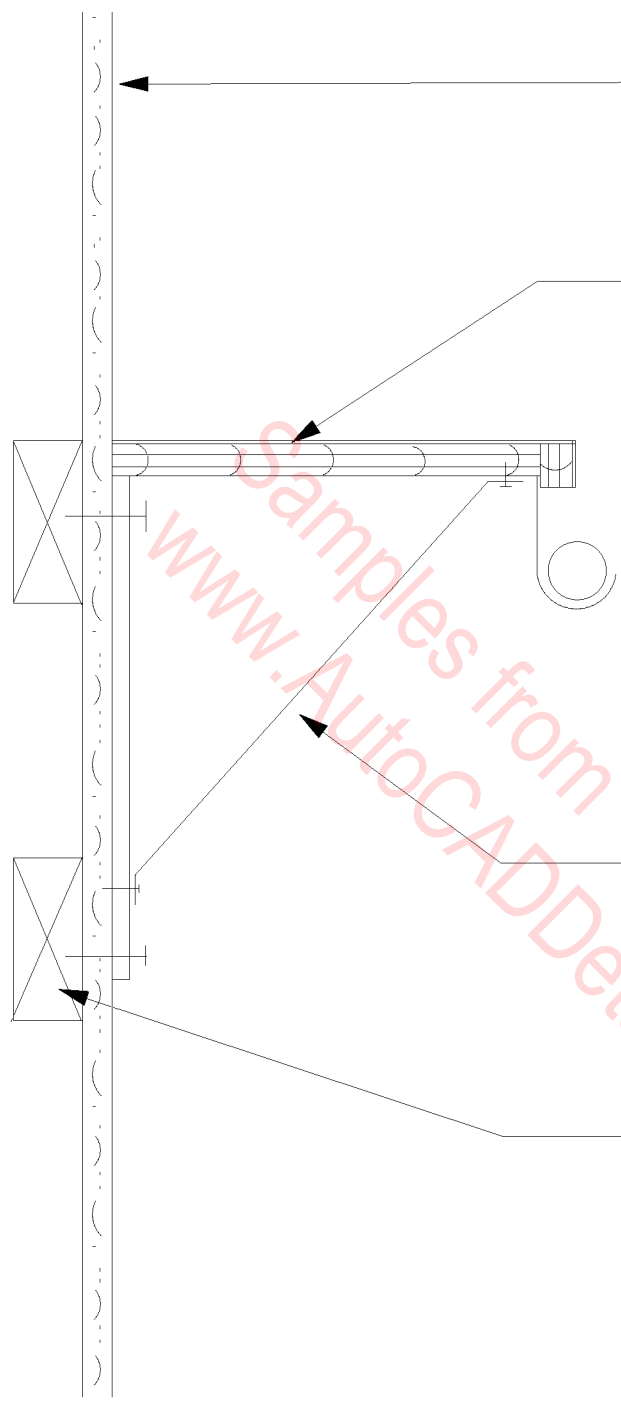
1 Story Structure, Portal Frame

Top of Wall
no further framing
is allowed



2 Story Structure, Portal Frame

5'-6"
TO FLOOR



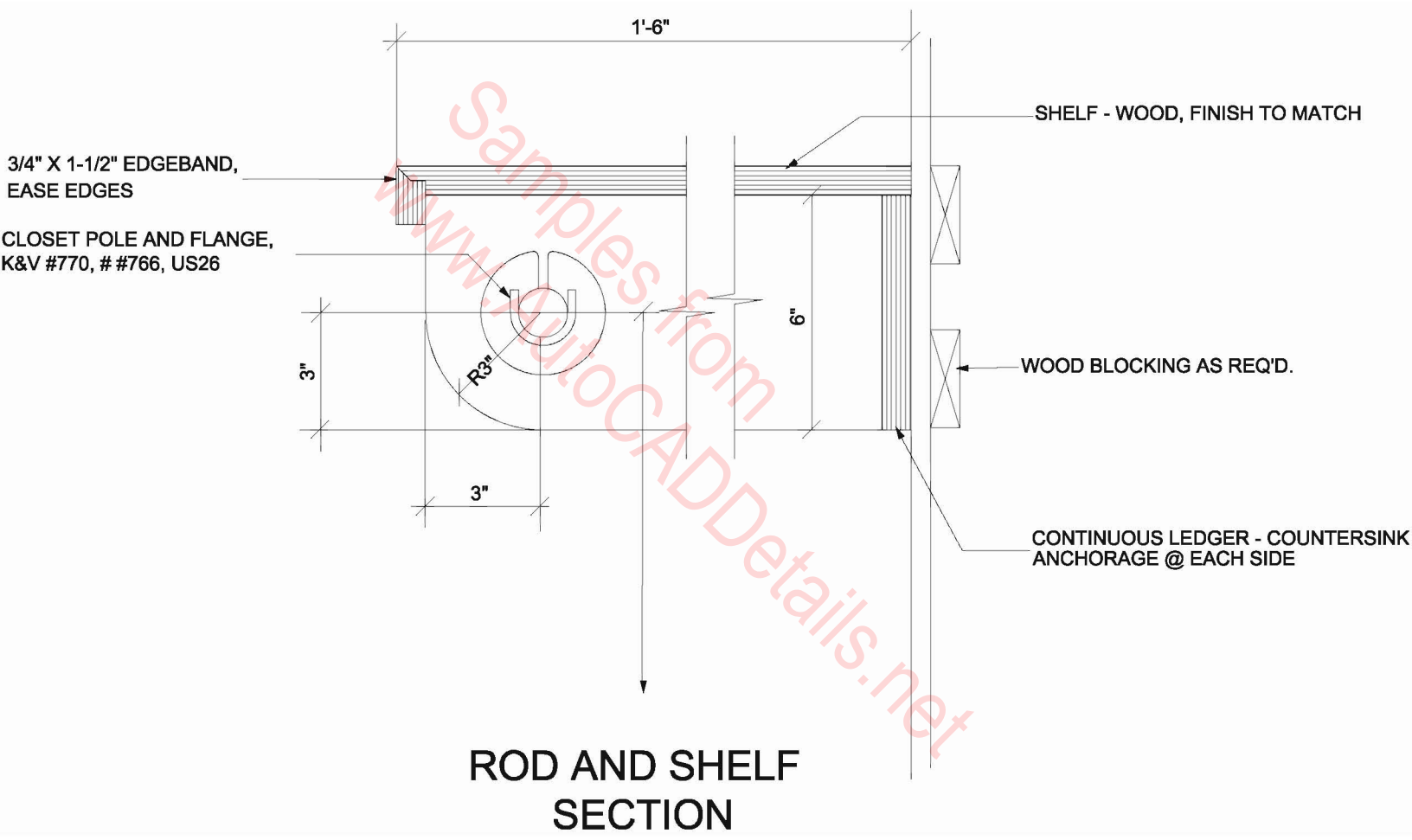
5/8" DRYWALL ON MTL.
STUDS

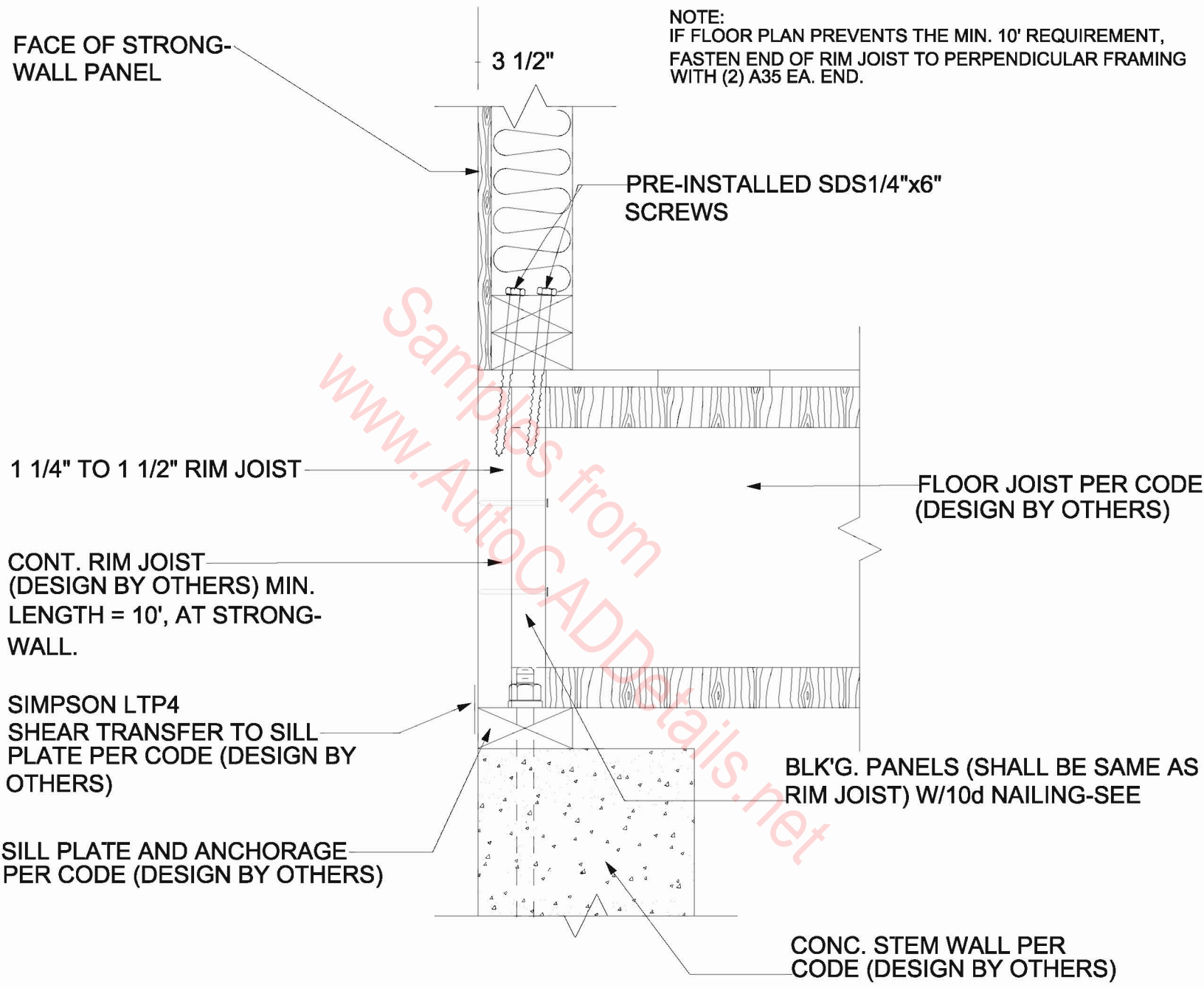
PLASTIC LAMINATE ON
3/4" PLYWOOD - PROVIDE
3/4" X 1" EDGING

K & V 1195 BRACKET
w/660SS POLE. MOUNT
BRACKETS 3" FROM EA.
WALL AND NOT MORE
THAN 4'-0" O.C.

PROVIDE SOLID BLOCKING
BEHIND BRACKETS

ROD AND SHELF





SHEAR TRANSFER AT RAISED FLOOR

USE SSTB34 A.B. IF
COLD JOINT EXISTS
AT SLAB AND
FOOTING INTERFACE.

1 1/2"

EMBEDMENT
24" (SSTB28)
28" (SSTB34)

3" CLR.
MIN.

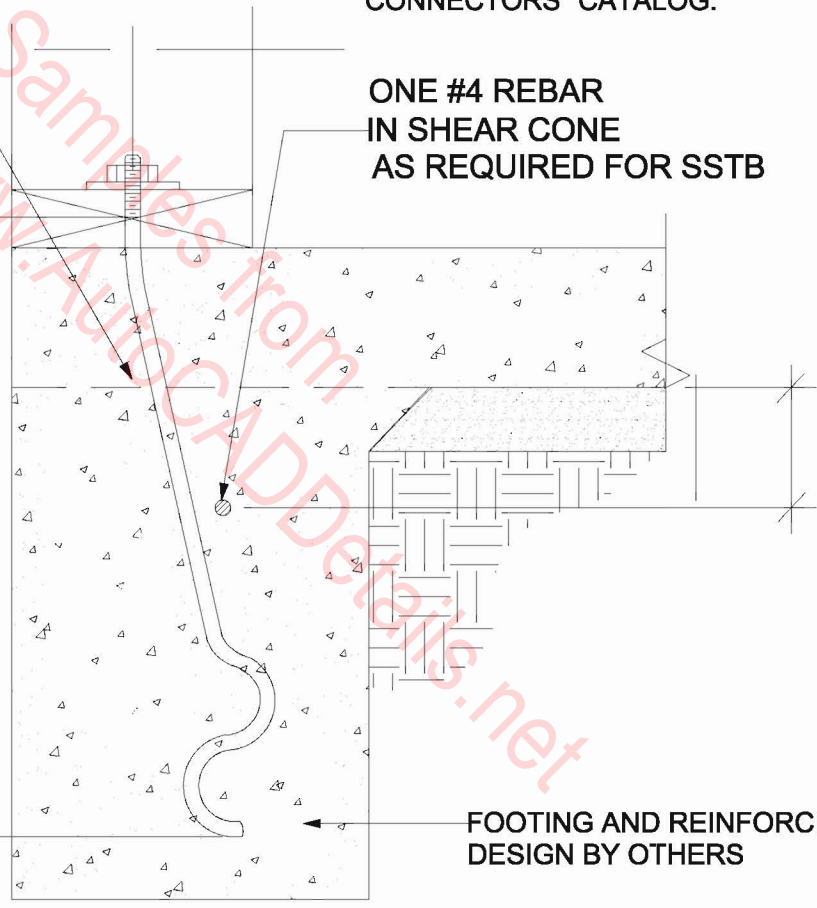
NOTE:
FOR NOTES ON INSTALLATION AND MINIMUM
FOUNDATION REINFORCING REQUIREMENTS,
REFER TO SIMPSON'S "WOOD CONSTRUCTION
CONNECTORS" CATALOG.

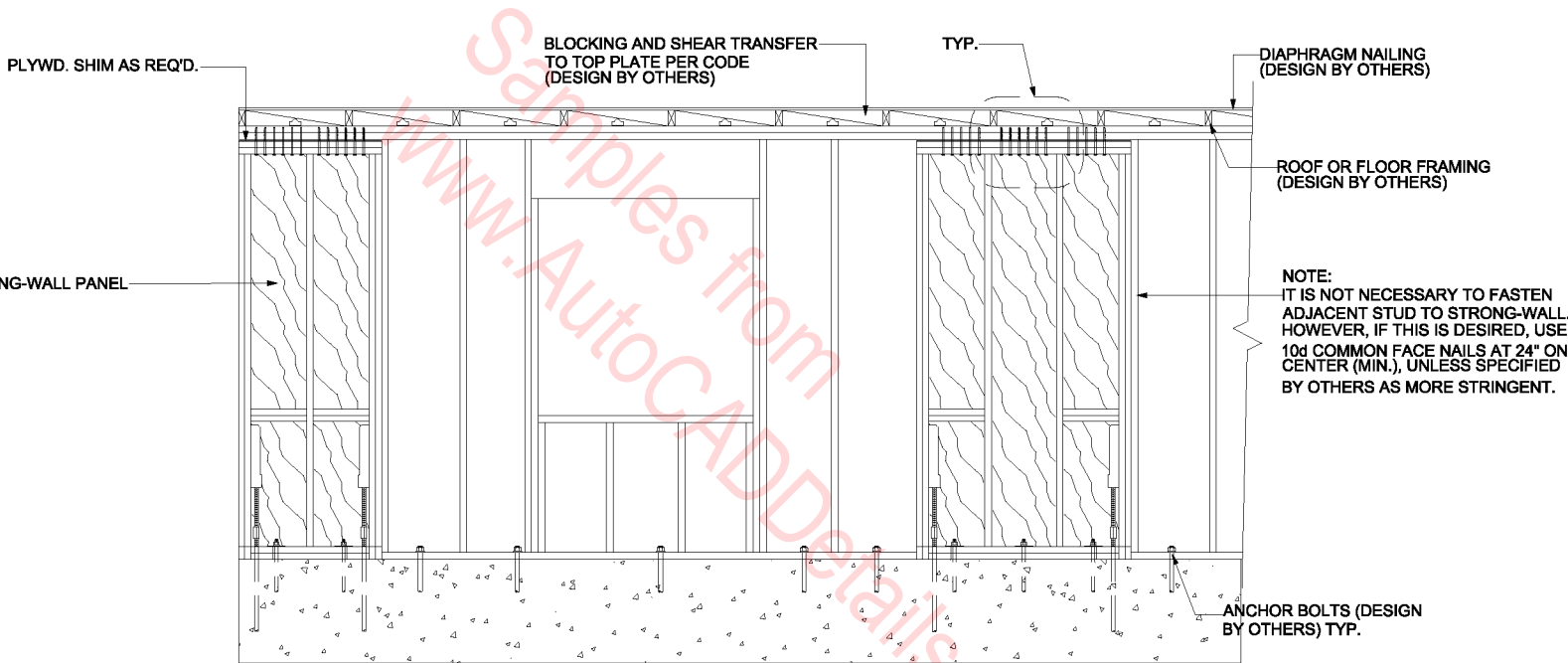
ONE #4 REBAR
IN SHEAR CONE
AS REQUIRED FOR SSTB

3" MIN.
5" MAX.

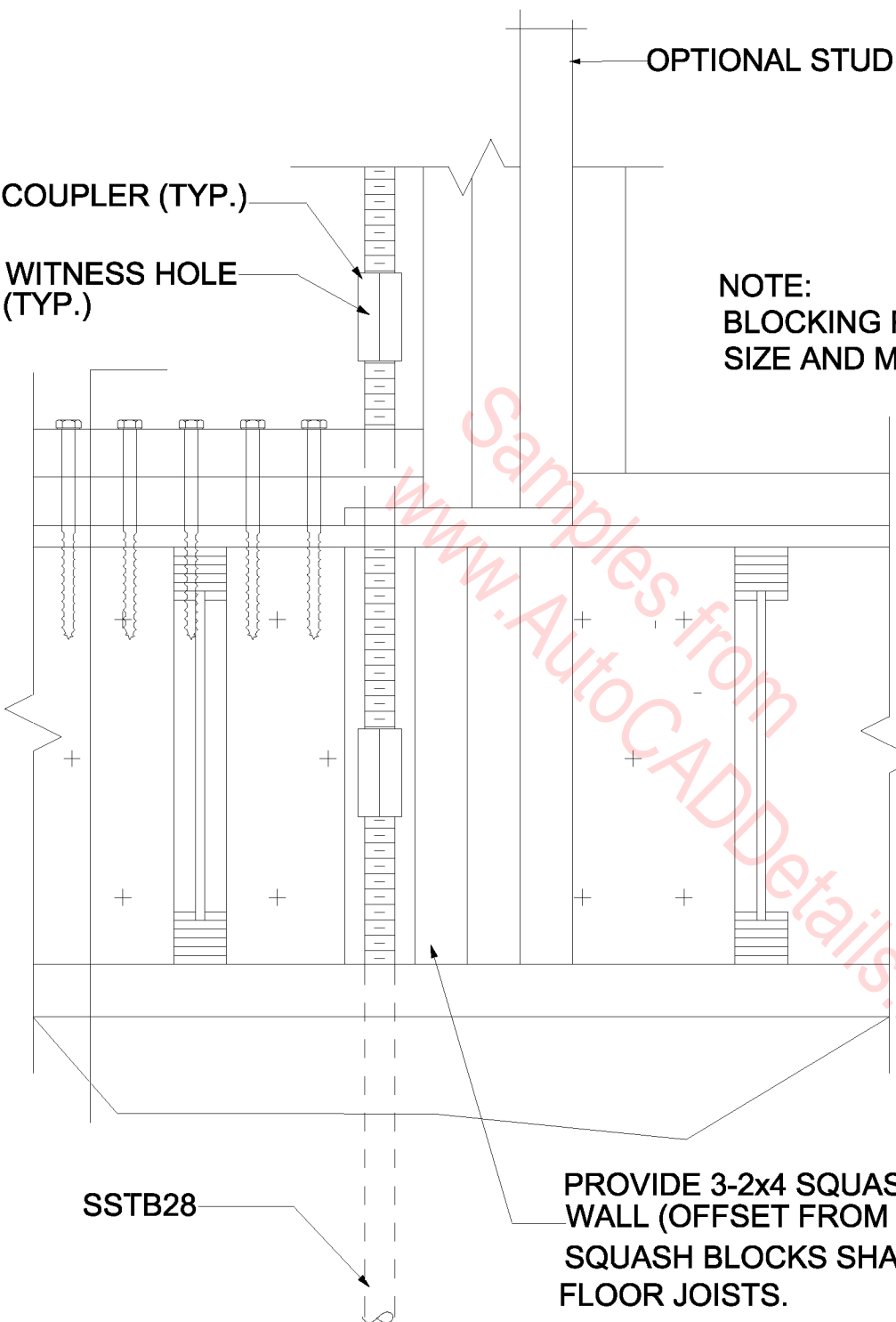
FOOTING AND REINFORCING
DESIGN BY OTHERS

SSTB ANCHOR--Strong Walls





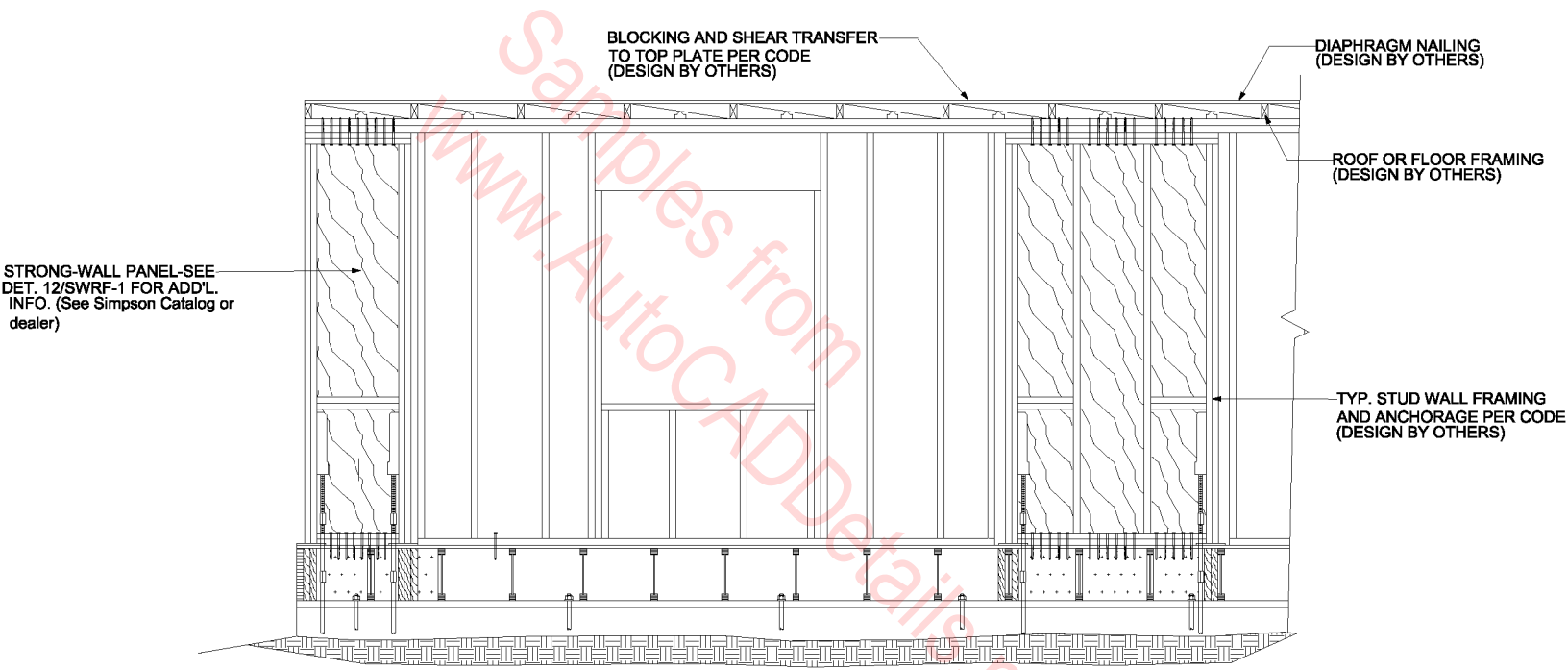
STRONG WALL FRAMING ELEVATION



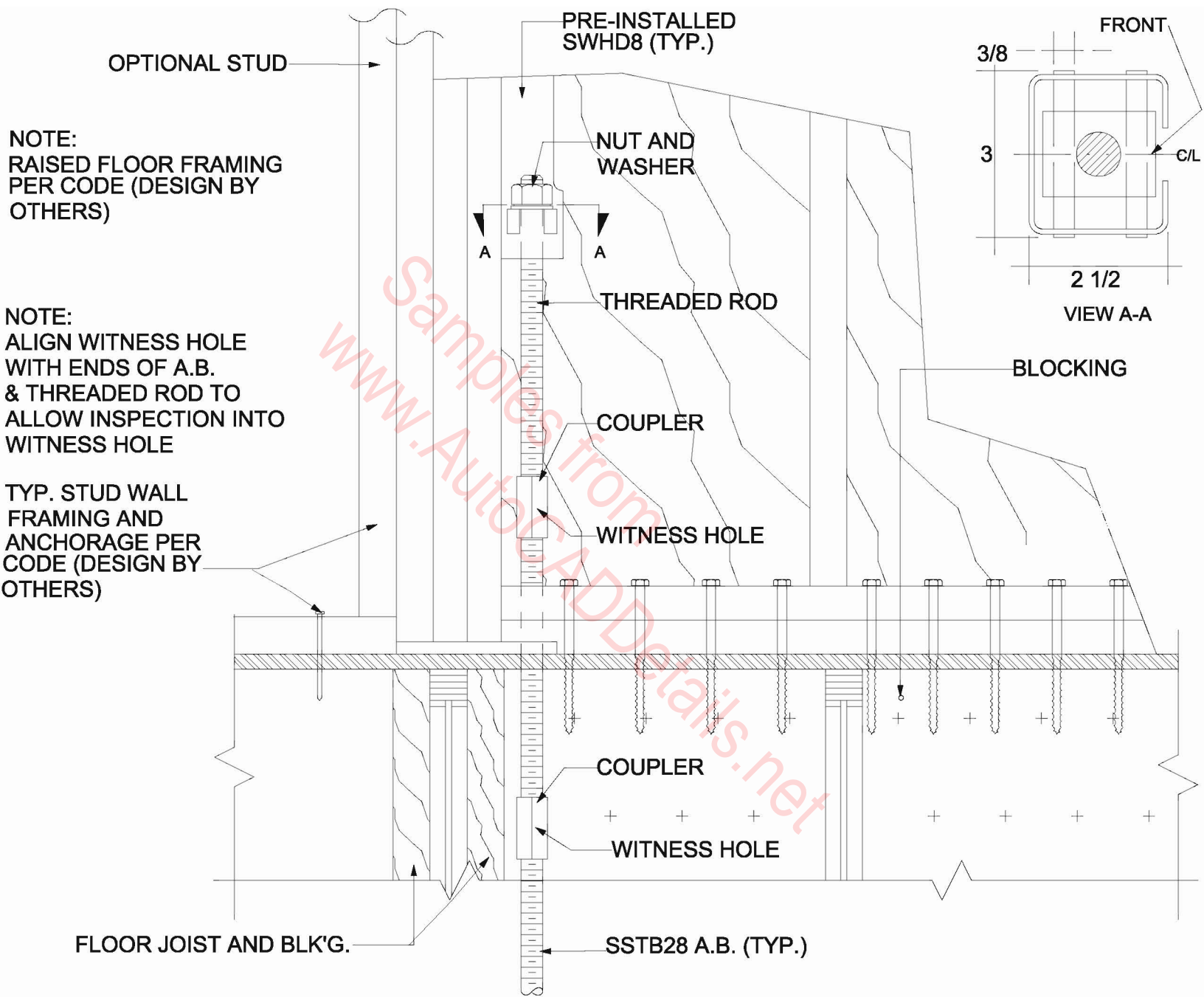
BLOCKING PANEL AT STRONG-
WALL W/3 ROWS OF 10d X
2 1/2" LONG NAILS AT
3" O.C. HORIZONTAL

PROVIDE 3-2x4 SQUASH BLOCKS AT STRONG-
WALL (OFFSET FROM FLOOR JOIST) AS SHOWN.
SQUASH BLOCKS SHALL BE 1/16" TALLER THAN
FLOOR JOISTS.

**BOTTOM OF STRONG WALL,
JOIST OFFSET FROM END POST**



STRONG WALL FRAMING ELEVATION (INSIDE VIEW)



HOLDOWN BOLT CONNECTION

Install SDS 1/4" x 6"
Screws into the top plates.

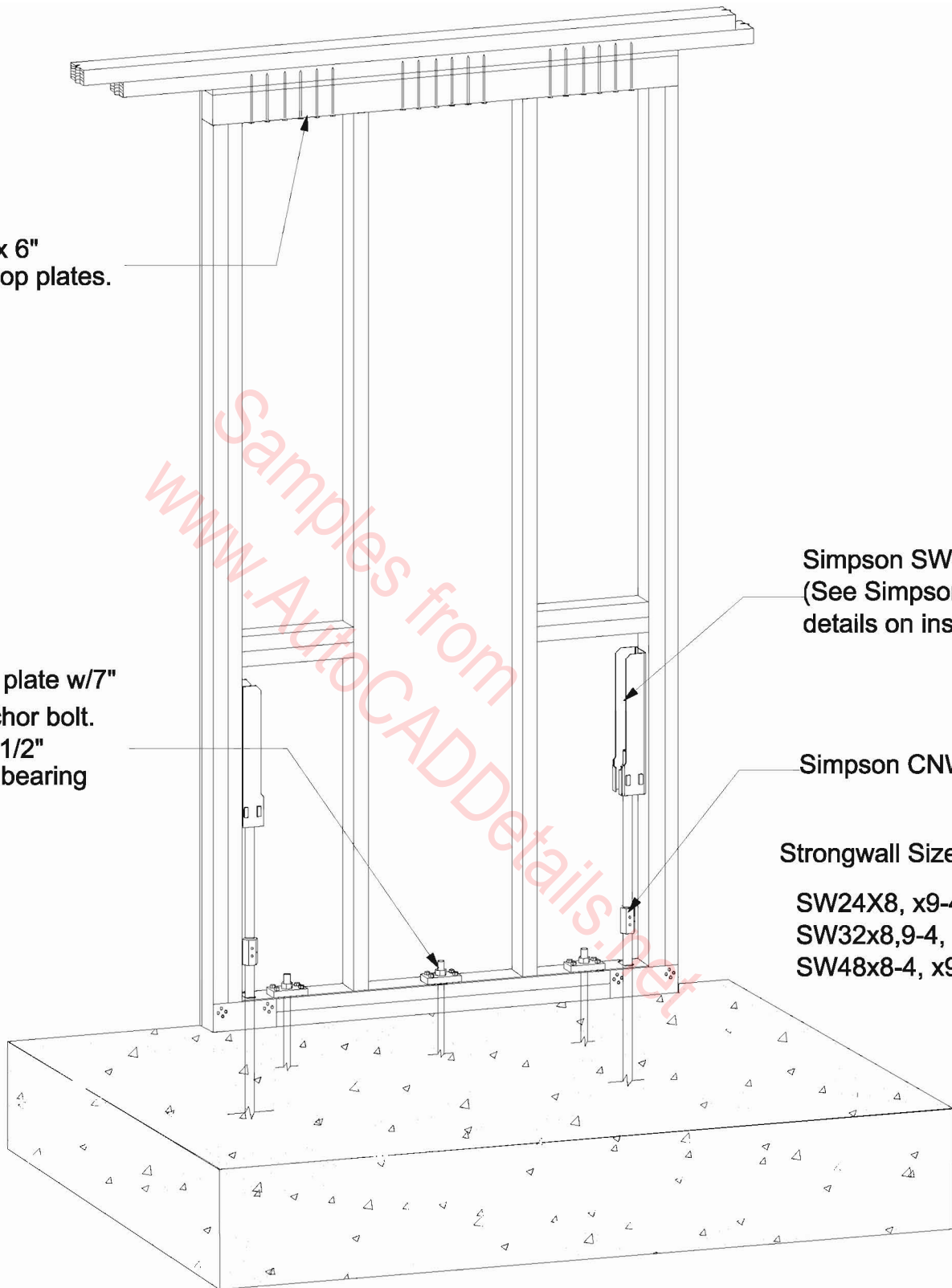
Simpson Bearing plate w/7"
standard 5/8" anchor bolt.
Use SDS 1/4"x 2 1/2"
screws to secure bearing
plate.

Simpson SWHD8 holdown
(See Simpson Catalog for
details on installation)

Simpson CNW installation

Strongwall Sizes

SW24X8, x9-4
SW32x8,9-4, x10-4
SW48x8-4, x9-4, x10-4



Simpson Strong-Tie

**STRONGWALL SHEARWALL
(Standard Wall)**

2 Straps Front & Back
12 Straps Total Per Panel
Min. 1000# each

NO ADDITIONAL WALL FRAMING ALLOWED

Structural
Intermediate
Panel

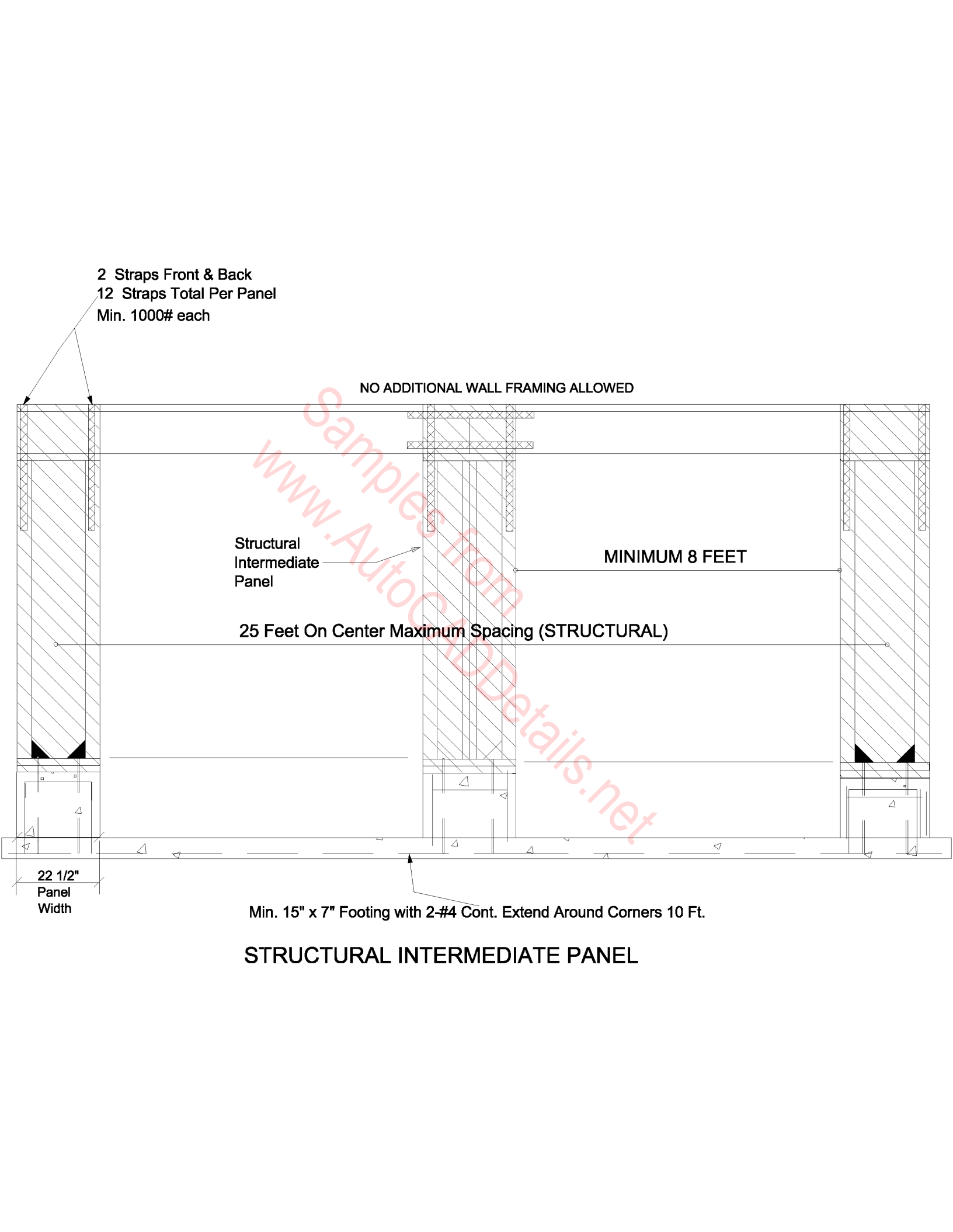
MINIMUM 8 FEET

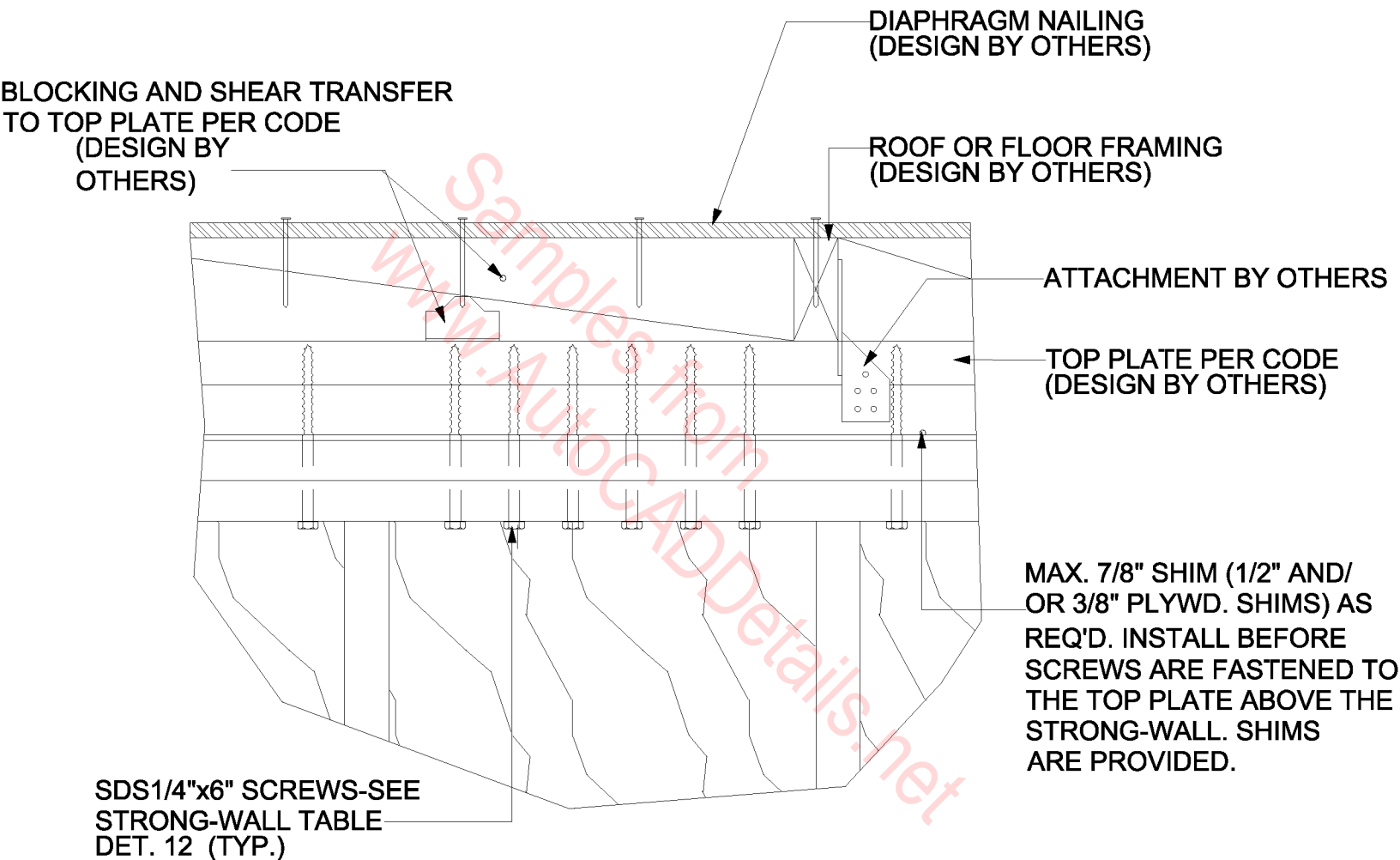
25 Feet On Center Maximum Spacing (STRUCTURAL)

22 1/2"
Panel
Width

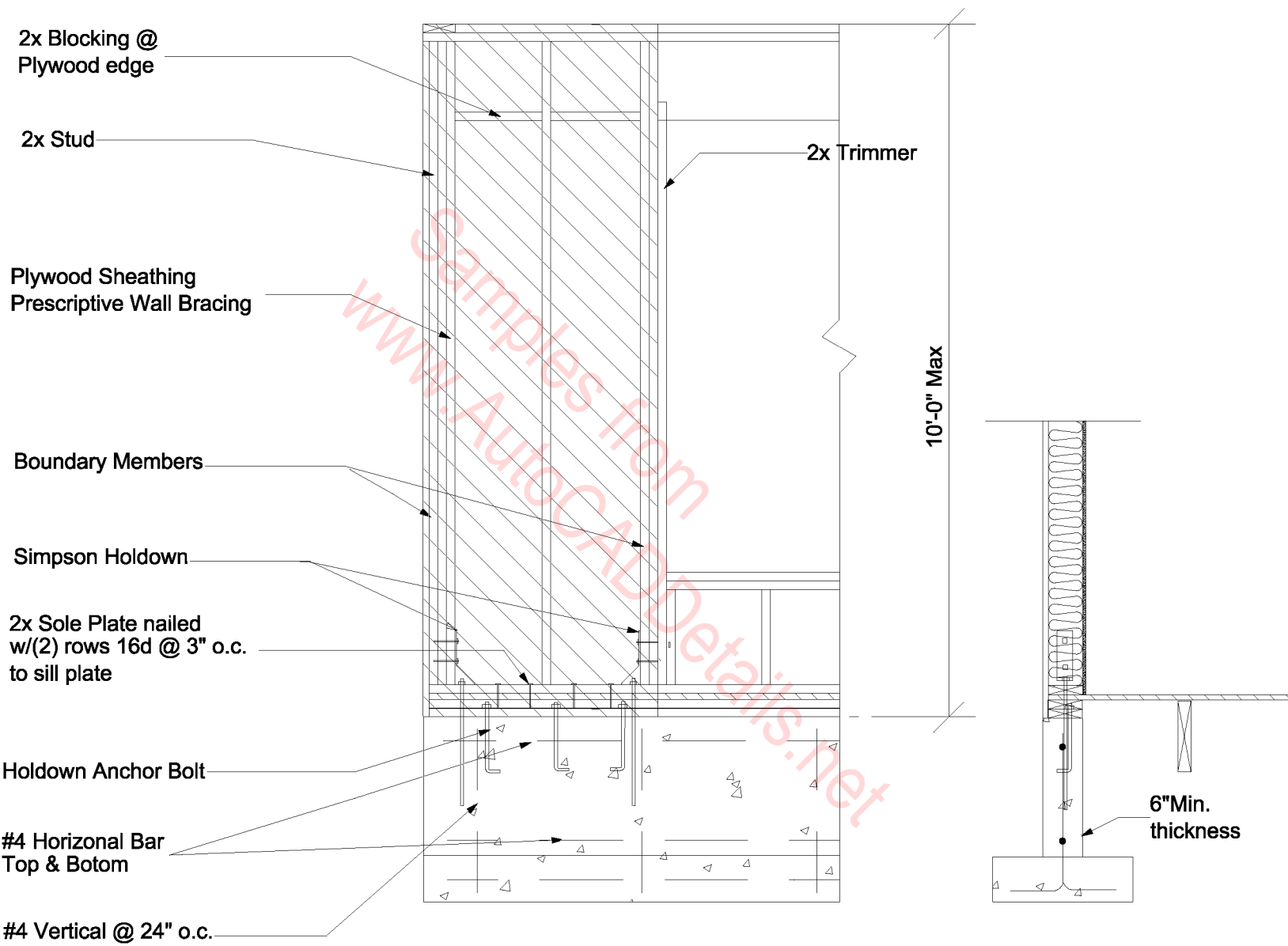
Min. 15" x 7" Footing with 2-#4 Cont. Extend Around Corners 10 Ft.

STRUCTURAL INTERMEDIATE PANEL





TOP PANEL



TYPICAL SHEAR WALL

Roof

Roofing: Customer Choice

Sheathing: 1/2" CDX Min. Marked for 24" spans.
Note No vents in protected area.
Block all horizontal panel edges. Gypsun board
must be nailed @ 7" O.C.. Fiberboard--1/2" for
studs 16" O.C.

Rafter or Truss

8d @ 6" O.C.

Install
Flashing as
required

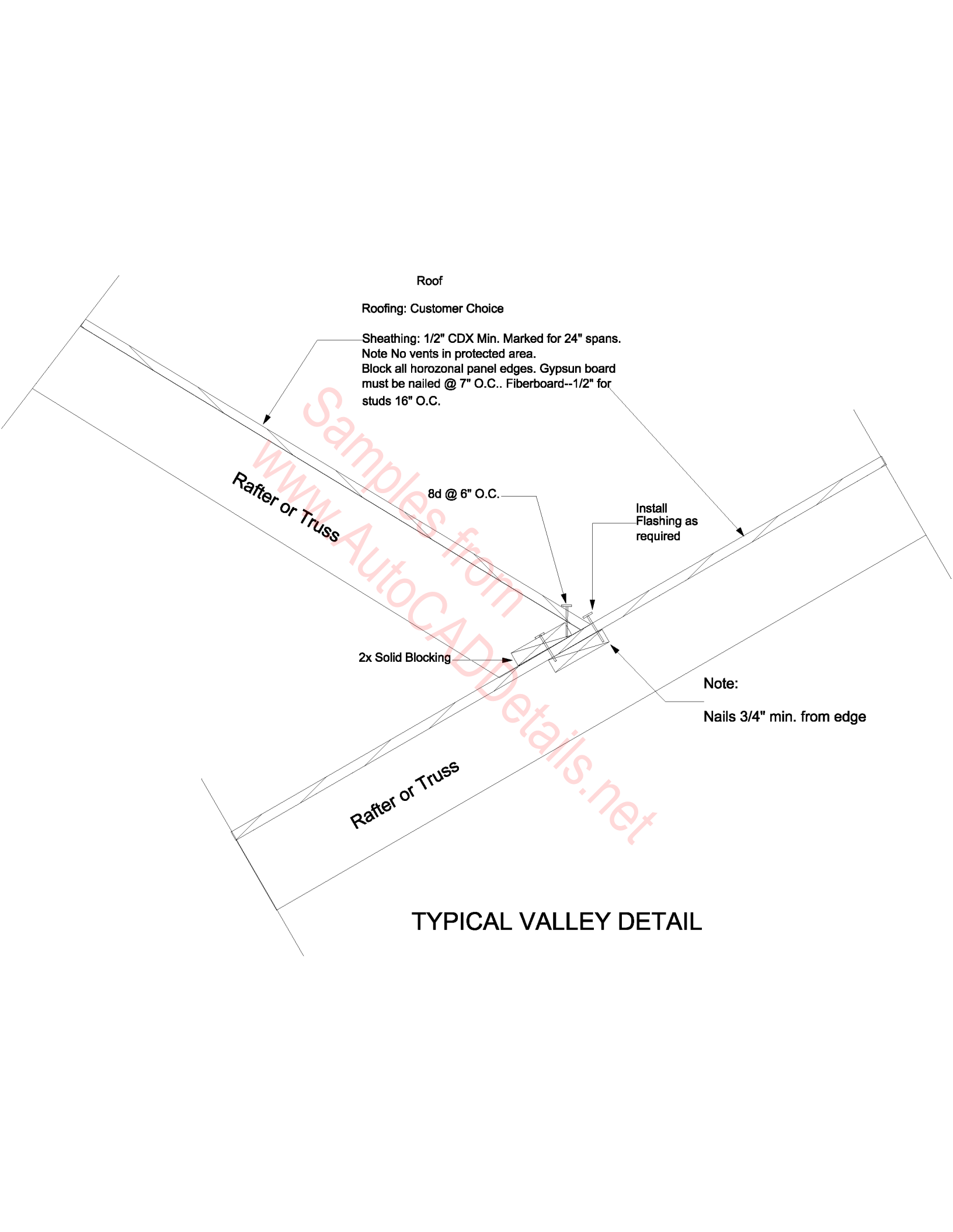
2x Solid Blocking

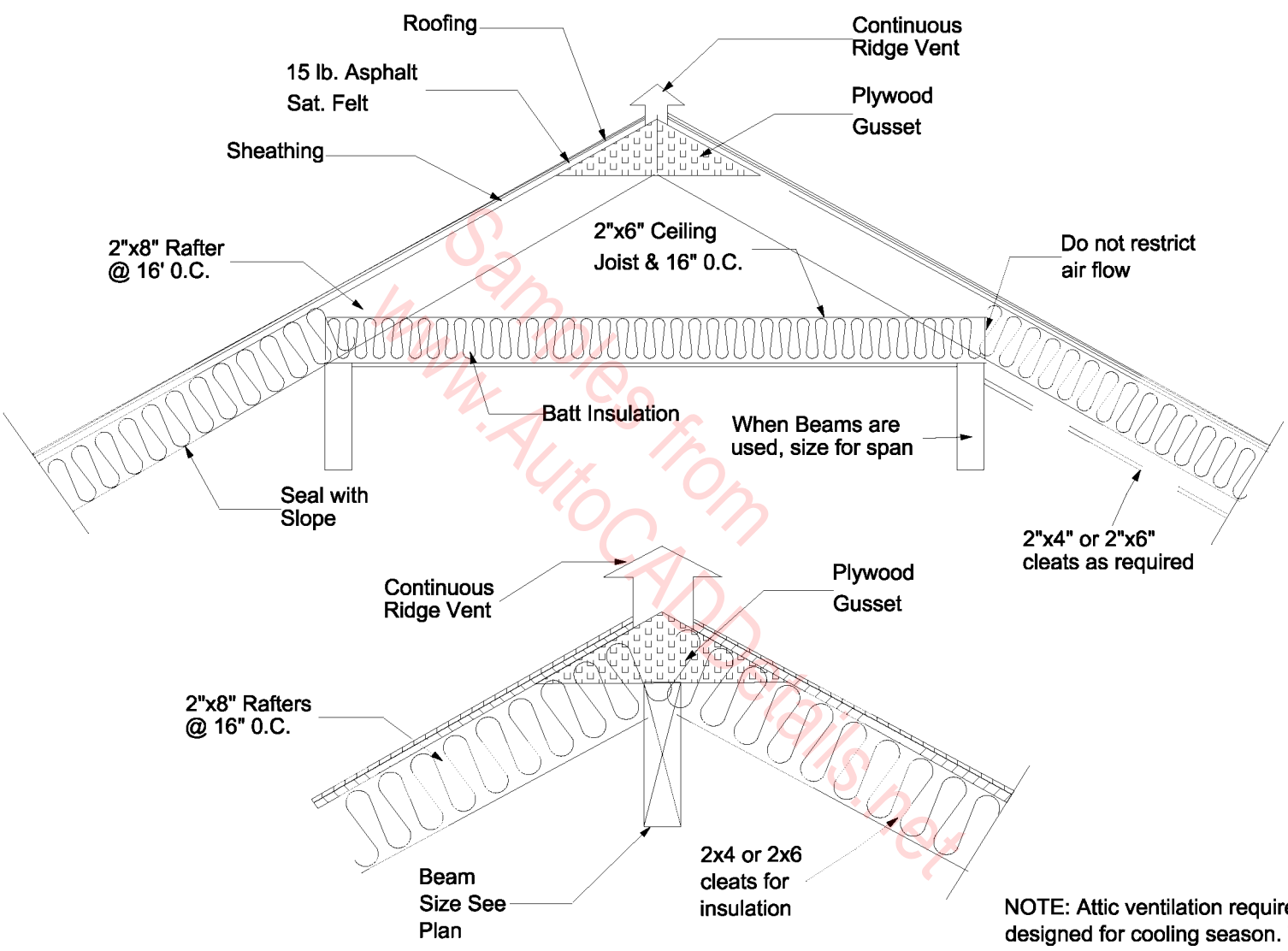
Note:

Nails 3/4" min. from edge

Rafter or Truss

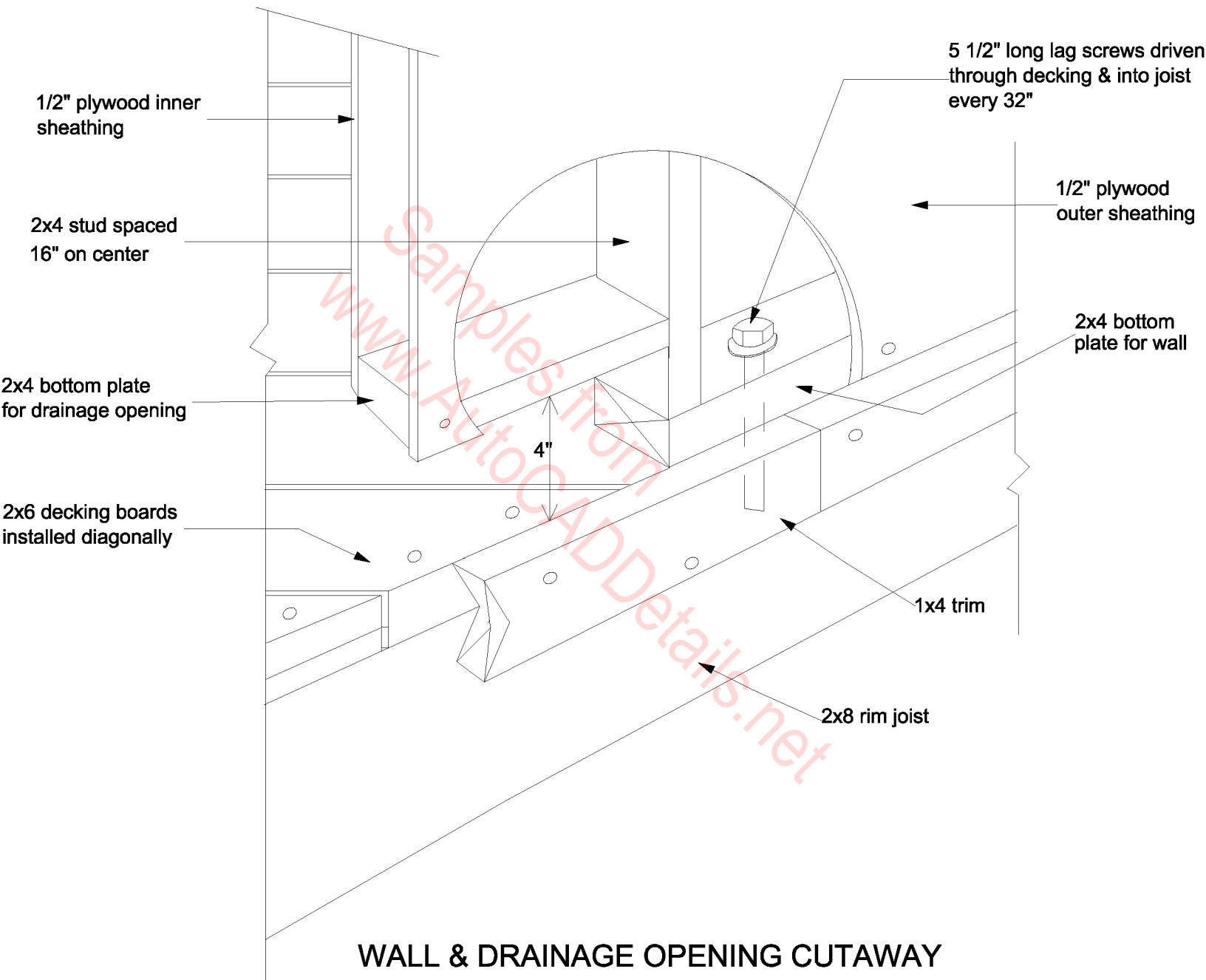
TYPICAL VALLEY DETAIL



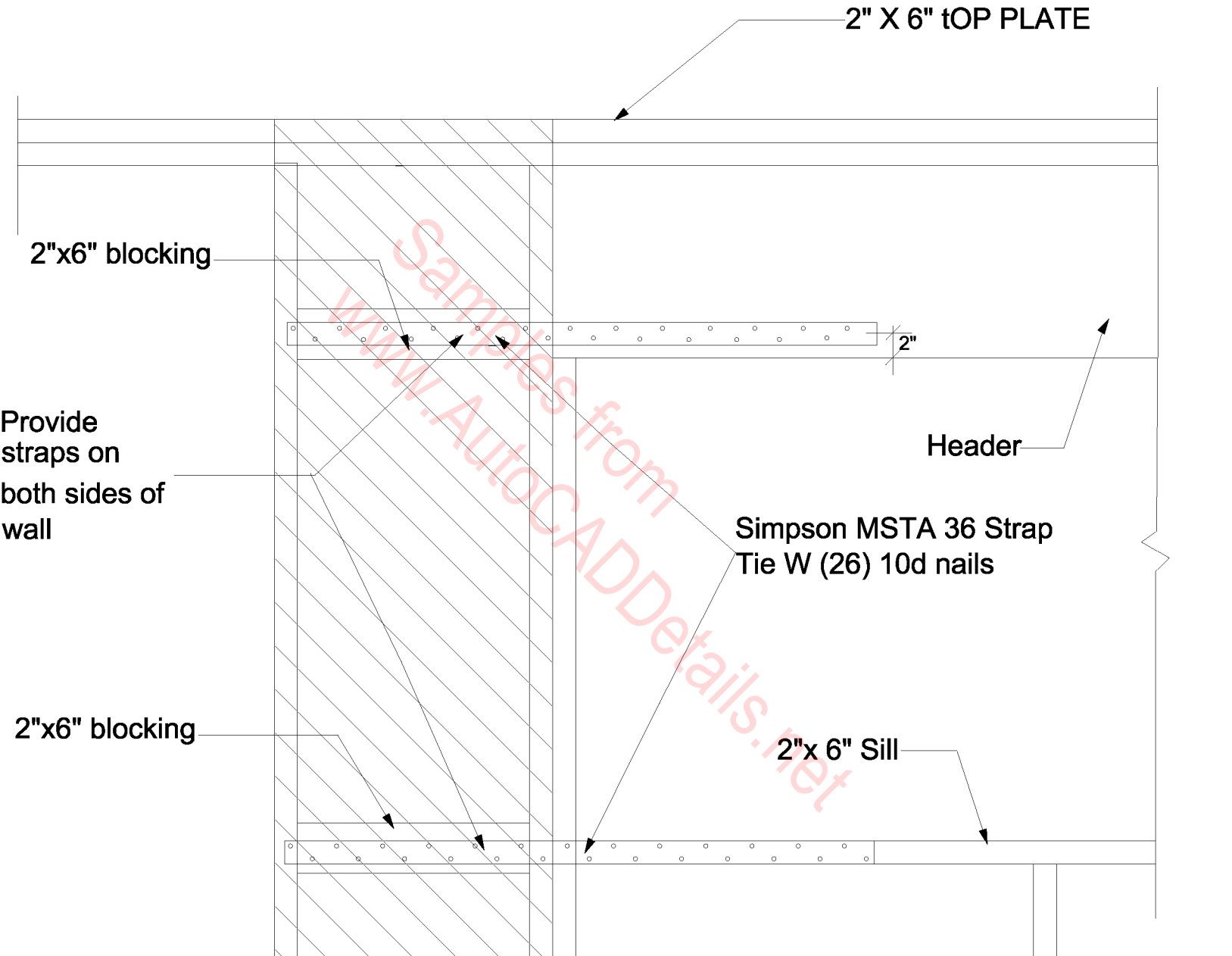


NOTE: Attic ventilation requirements designed for cooling season. This will be adequate to prevent condensation during heating season. 1.5 to 2.0 C.F.M Per Sq Ft of attic floor area.

VAULTED CEILING DETAIL



NOTE: THIS DETAIL IS TYPICAL FOR ALL WINDOW AND DOOR OPENINGS ON SHEARWALLS.



NOTE: 36" Simpson CS18 straps may be used in lieu of MST straps.

WINDOW & DOOR SHEARWALL DETAIL