

# Community Development Department

1600 First St., P.O. Box 660  
Napa, CA 94559-0660

Engineering Division  
Phone: (707) 257-9530

Planning Division  
Phone: (707) 257-9530

Building Division  
Phone: (707) 257-9540  
Inspections: (707) 257-1063

Facsimile: (707) 257-9522

Code Enforcement  
Phone: (707) 257-9590

CITY of NAPA

## RETRO FITTING MASONRY FIREPLACE WITH FACTORY BUILT METAL CHIMNEY

### CHIMNEY SPECIFICATIONS

Remove existing masonry chimney down to the throat of undamaged firebox.

All factory-built chimney assemblies (pipes spark arrestor and anchor plates) shall be tested to U.L. Standard 103 by a testing laboratory and approved by the City of Napa.

Metal chimneys shall be listed by the testing laboratory as "Residential Type and Building Heating Appliance Chimney" when used for wood burning fireplaces. Chimneys listed as only a "Building Heating Appliance Chimney" are for installation in other than one- or two family dwellings.

Chimneys for fireplaces With a closed air-tight combustion chamber shall be designated "Type HT.

Factory-built chimney assemblies shall be used and installed in accordance with the terms of their listing and the manufacturer's instructions.

### METAL CHIMNEY TRANSITIONS SPECIFICATIONS

The masonry to metal chimney transition shall be accomplished through the use of a 12 gage steel adapter cone which is imbedded in the concrete bond beam. A "paroc. basalt installation gasket shall be installed between the adapter cone flange and the metal chimney anchor plate. The metal chimney transition assembly shall be UL listed and approved by the City of Napa.

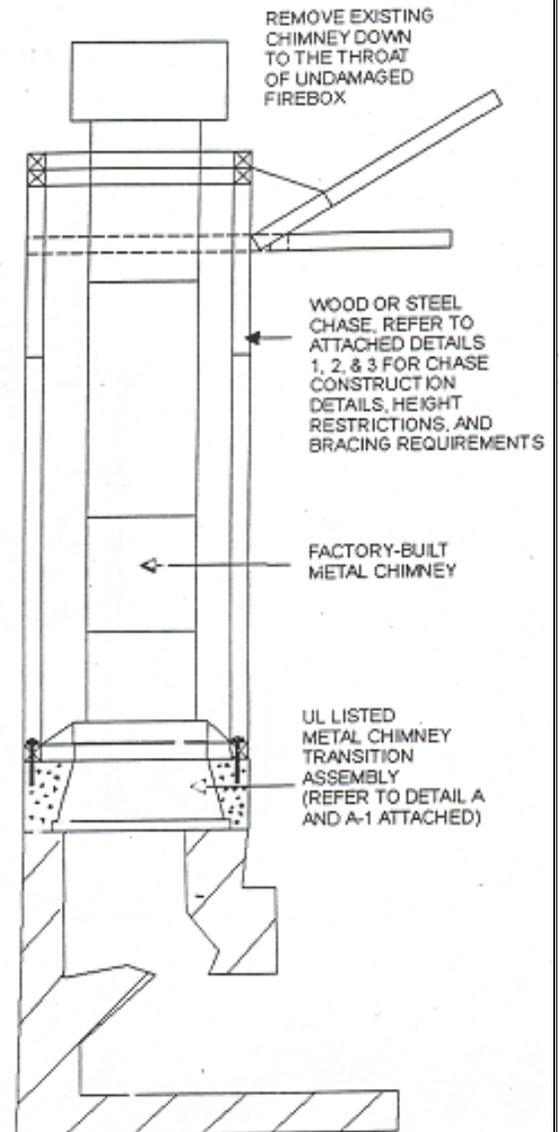
The concrete bond beam must be 2500 psi minimum. Grade 40 reinforcement.

### ADDITIONAL REQUIREMENTS

**Maximum Height:** The height of the chimney above the roof shall be limited to 10 feet under this standard or per manufacturer's listing, whichever is more restrictive. Refer to chase construction for minimum height requirements.

**Diameter of Metal Chimney:** The diameter of the factory built metal chimney assembly shall be based upon the manufacturer's specifications and instructions for the least dimension of the existing flue, whichever is greater.

**Draft Stop:** A draft stop consisting of drywall or plywood shall be provided to separate the chase from the wood members of the existing building.



Chimneys burning solid fuel shall be equipped with an approved spark arrestor per UBC 3102.3.8.

Inspections: The existing firebox and other undamaged areas must be carefully visually inspected for cracks or voids.

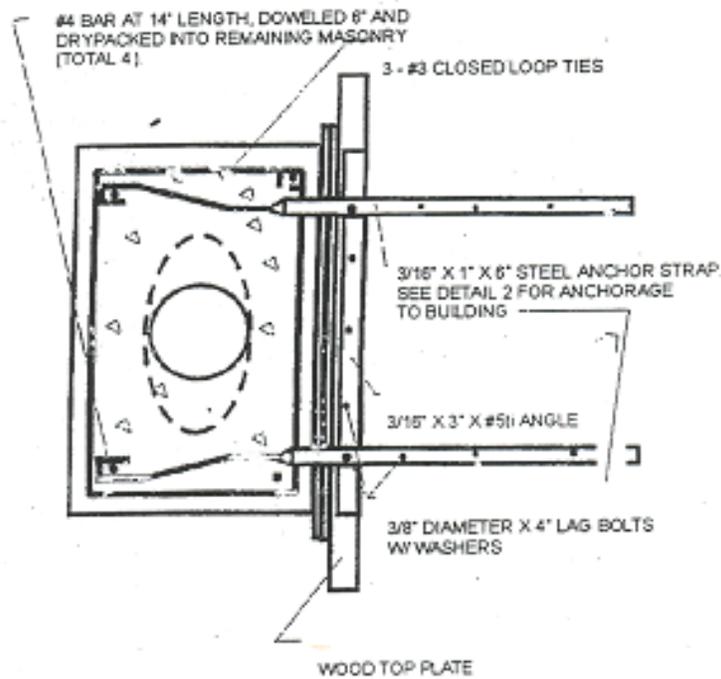
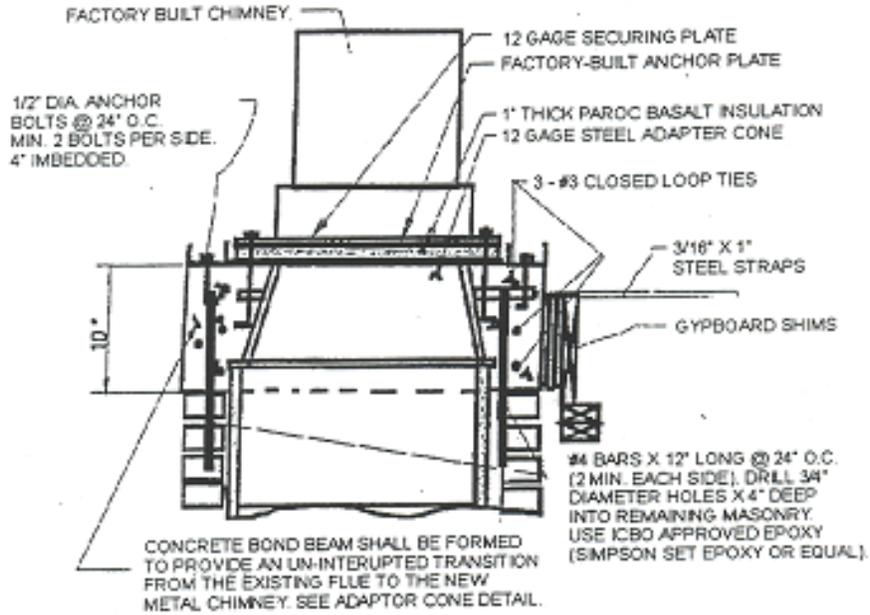
All forms and handouts are available on [www.cityofnapa.org](http://www.cityofnapa.org)



# TRANSITION FROM MASONRY FIREPLACE TO METAL CHIMNEY

## Detail A-1

### SECTION AT BOND BEAM



### PLAN VIEW

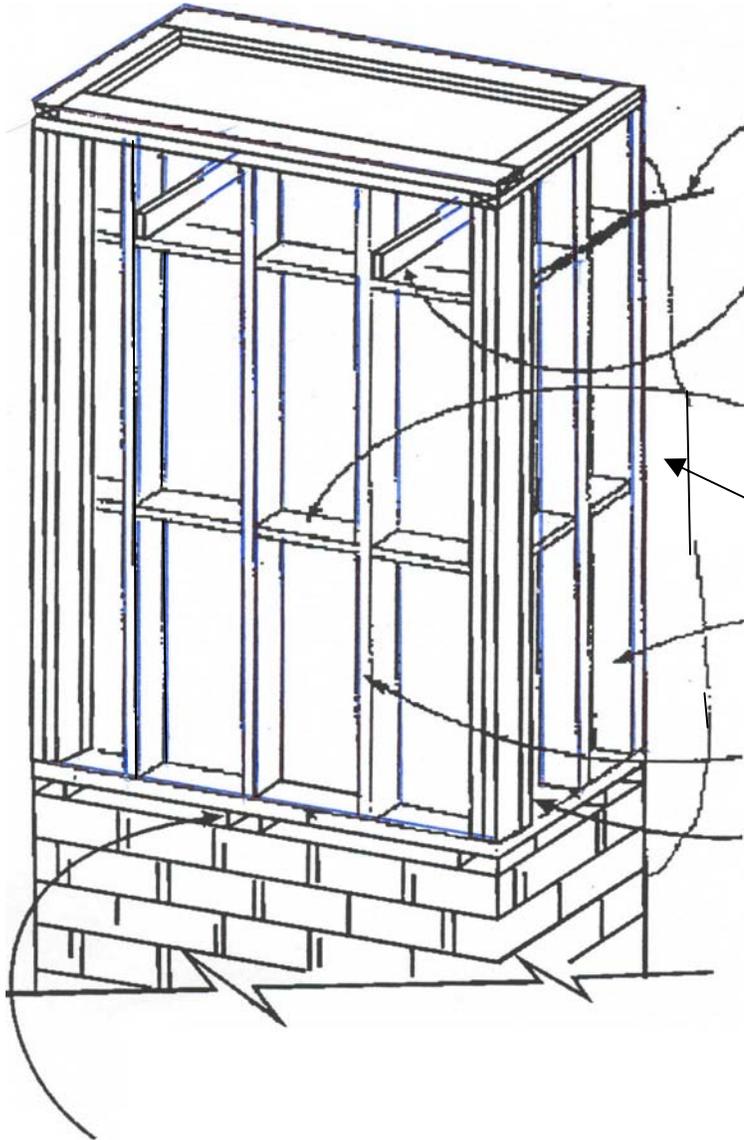
# WOOD STUD CHASE

## Detail 1

### COVERING:

Wood stud chase may be covered with stucco or adhered veneer.

**Note:** Adhered veneer shall be a maximum 1" thick with plywood backing (3/8" min.) and shall be installed per UBC Chapter 14 and manufacturer's listing.



Continuous 1 ¼" x 16 gage steel strap at floor(s) and ceiling roof lines.

Horizontal bracing at floor(s) and ceiling roof lines and at roof bracing

Blocking of studs at every 4' vertical distance and at floor(s) and ceiling / roof lines

Draft stop to separate chase from wood member of existing building

Corner studs shall be anchored into existing building with ¼" x 3 1/2" lag screws at 24" O.C.

2" X 4" DF #2 studs max 16" O.C.

2" X 4" Pressure-treated DF #2 or Better plate with ½" x 4' minimum embed ICBO approved epoxy anchor @24"O.C. (Minimum 2 bolts per side) install steel spacers at each anchor bolt location. Refer to note regarding steel spacer requirements

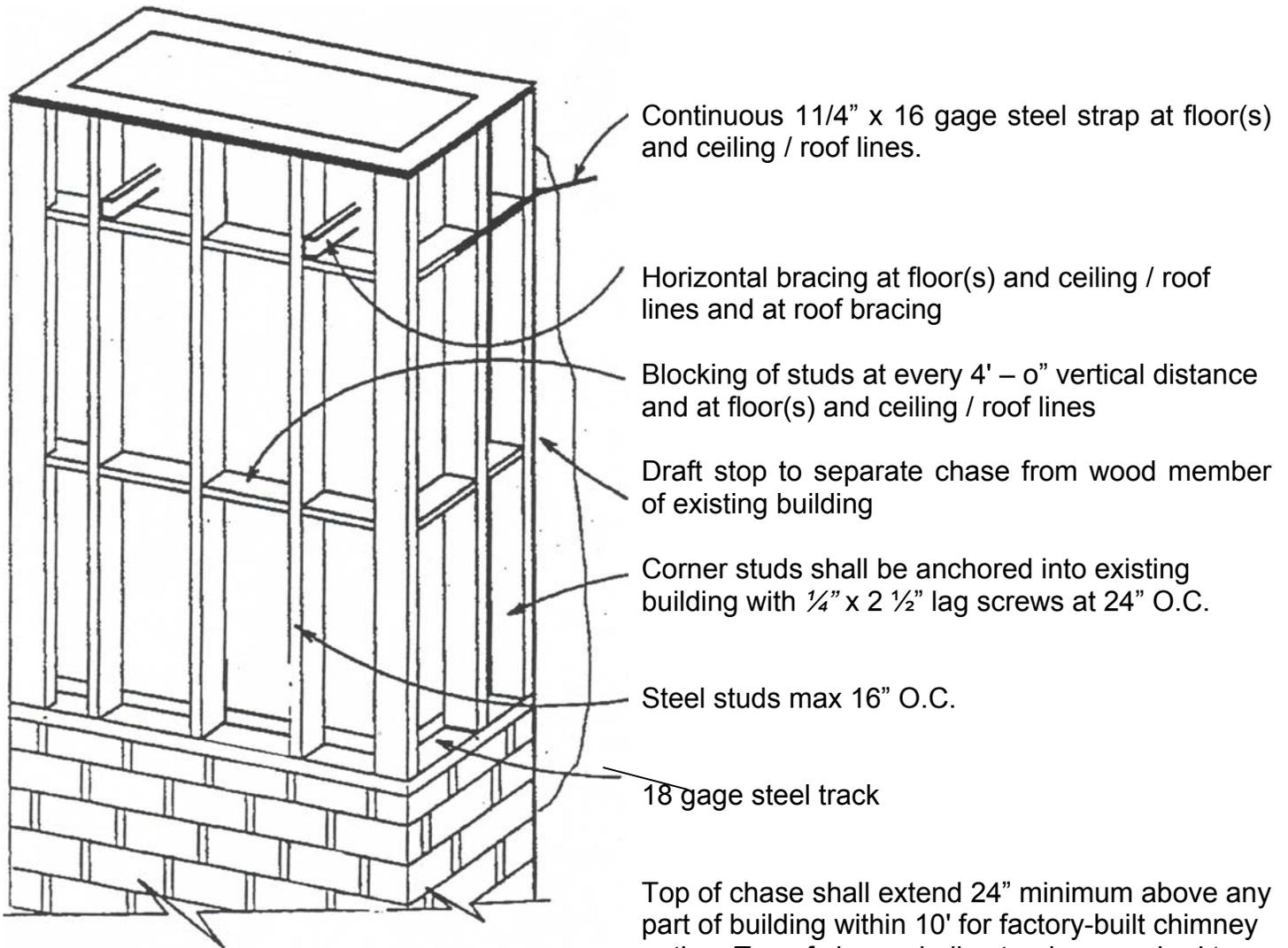
Top of chase shall extend 24" minimum above any part of building within 10' for factory-built chimney option top of chase shall extend as required to meet the manufacturer's listing

Install 2" x 4" X 14 gage x 3 ½". Long tube steel spacers in order to obtain a 2" minimum clearance between wood and concrete! Masonry for wood burning fireplace application

Install 1" x3" x 14 Gage 3 ½". Long tube spacers in order to obtain a 1" Minimum clearance between wood and concrete / masonry for all other applications

# STEEL STUD CHASE

## Detail 2



Continuous 1 1/4" x 16 gage steel strap at floor(s) and ceiling / roof lines.

Horizontal bracing at floor(s) and ceiling / roof lines and at roof bracing

Blocking of studs at every 4' - 0" vertical distance and at floor(s) and ceiling / roof lines

Draft stop to separate chase from wood member of existing building

Corner studs shall be anchored into existing building with 1/4" x 2 1/2" lag screws at 24" O.C.

Steel studs max 16" O.C.

18 gage steel track

Top of chase shall extend 24" minimum above any part of building within 10' for factory-built chimney option. Top of chase shall extend as required to meet the manufacturer's listing.

### STEEL STUD SPECIFICATIONS:

All steel studs shall be either galvanized or factory-painted 'C' type galvanized stud.  
Minimum 18 Gage. Minimum Width 3 1/2".

### COVERING:

Steel stud chase may be covered with stucco or adhered veneer.

### COVERING MATERIAL:

Laths for Stucco: No.8 x 5/8" sheet metal screws at 6" O.C.

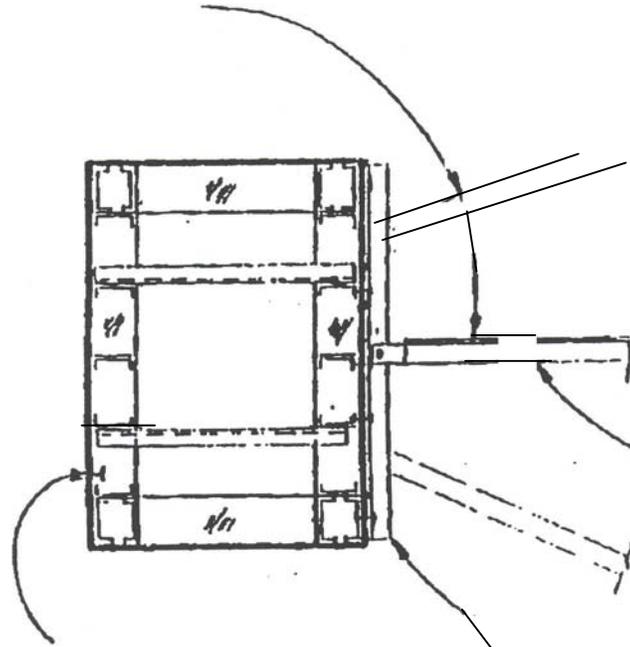
Plywood: No.6 bulge head screws at 6" O.C. at chase and 12" O.C. at interior edges and fields.

**Note:** Adhered veneer shall be a maximum 1" thick with plywood backing (3/8" min.) and shall be installed per UBC Ch 14 and manufacturer's listing.

# ROOF BRACE

## Detail 3

Single brace required if chimney is between 4' - 0" and 5' - 11" above the bond beam. Double braces required if chimney is between 6' and 10' above the bond beam.



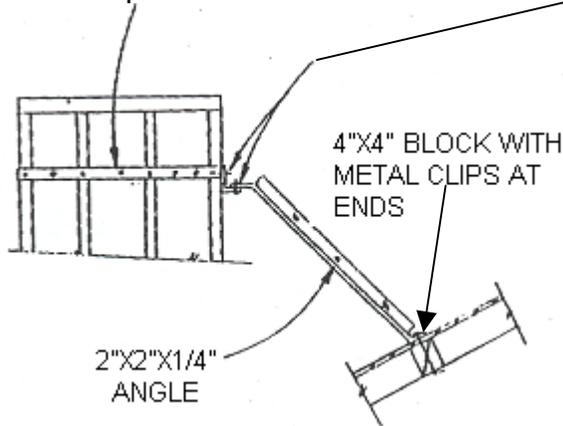
See sheet for blocking details

2" x 2" x 1/4" angle anchored through steep strap to studs with 1/2" diameter bolt length of angle shall equal the width of chase.

2" x 2" x 1/4" angle

1 1/4" x 16 gage steel strap

1/2" diameter bolt



4"X4" BLOCK WITH METAL CLIPS AT ENDS

2"X2"X1/4" ANGLE