

Community Development Department

Engineering Division
Phone: (707) 257-9530

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

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

BRACING DETAILS FOR DAMAGED INTERIOR MASONRY CHIMNEYS AND FLUES

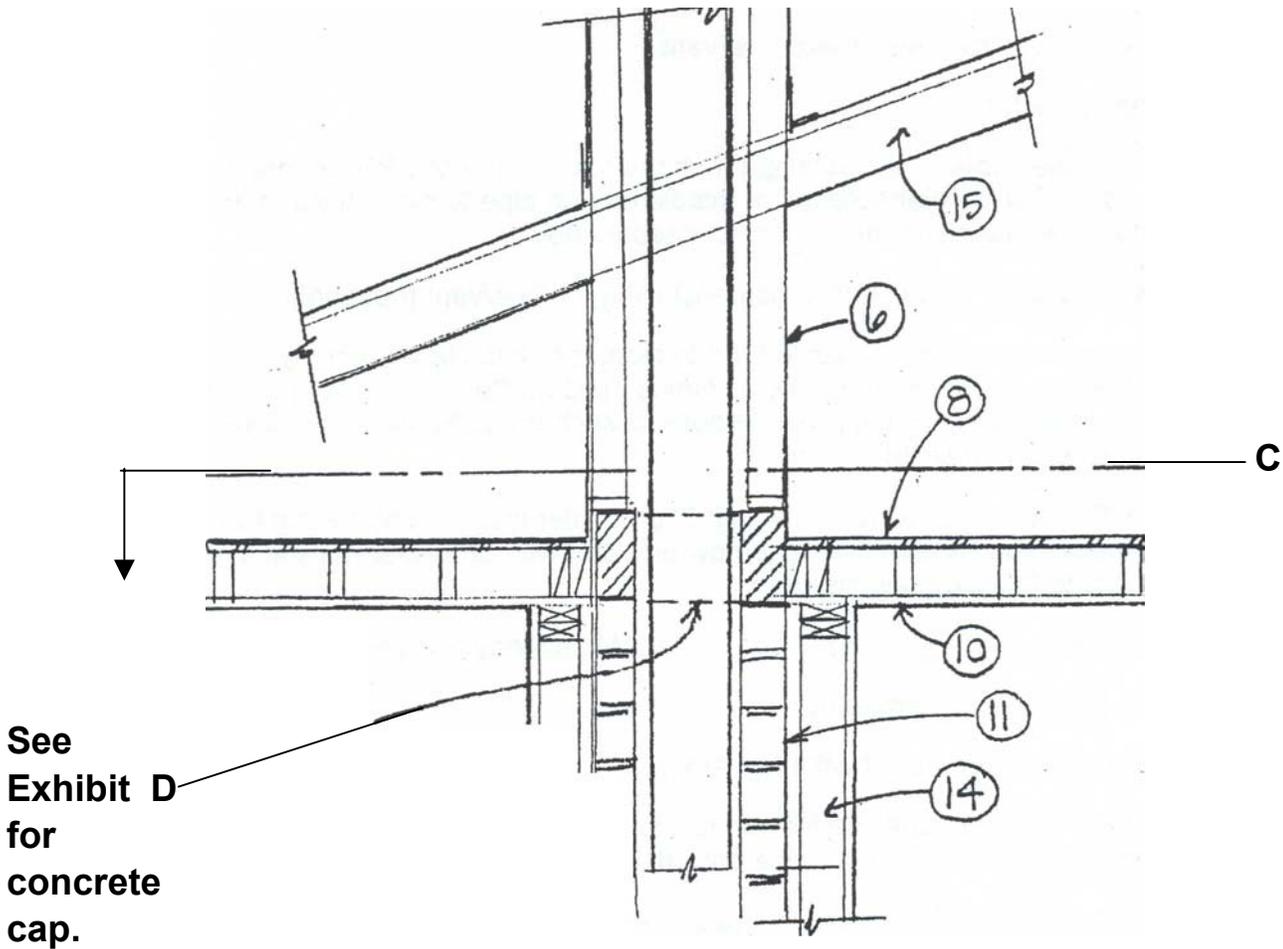
EXHIBIT A

Keynotes for Repair/Rehab Details for Chimney

1. Factory-built UL approved metal flue/vent
3. Existing clay liner
5. 3/8" thick steel plate - cut rectangular shape to fit on top of URM chimney with W' overlap on all sides. Cut circular hole out of middle for flue pipe to pass through. Punch 7/16" diameter holes for Hilti rods to secure masonry below
6. New wood stud or metal stud chase enclosing the flue/vent (optional)
7. 3/8" diameter galvanized threaded rod to extend 6" into URM chimney and to extend 2" above the new sill plates at the new chimney chase. Space rods @ 8" o.c. Minimum 3 bolts per side. Use ICBO approved epoxy to anchor into _" diameter drilled holes. Do not use impact drills on URM material
8. Y2" thick COX plywood with 8d nails @ 6" on center into existing ceiling framing and into all new blocking. Also attach ceiling to new blocking with 5d cooler nails at 4" on center for area equal to limits of new plywood
9. New double 2x blocking to tightly confine URM chimney transition
10. Existing ceiling framing member
11. URM chimney made from bricks (existing)
12. Concrete bond beam shall be formed to provide a solid structural cap on top of the existing URM chimney which now functions only at a chase
13. New pressure-treated 2x D.F. sill plates or metal studs
14. Existing or new framed chase around the URM chimney (chase)
15. Existing roof framing
17. New 3x blocking within the attic framing
18. Frame a wooden chase all around exposed interior chimney locations as shown in the details. Use 2x4 stud's minimum with 2- 1t3d nails through top plate of bottom plate into ends of each stud. Secure 5/8" gypboard finish or _" gypboard finish over 3/8" thick plywood to total enclosure chase area. Nail wall sheathing with fasteners shown in UBC code tables_

All forms and handouts are available on www.cityofnapa.org

EXHIBIT B



See
Exhibit D
for
concrete
cap.

B Section thru bracing at attic

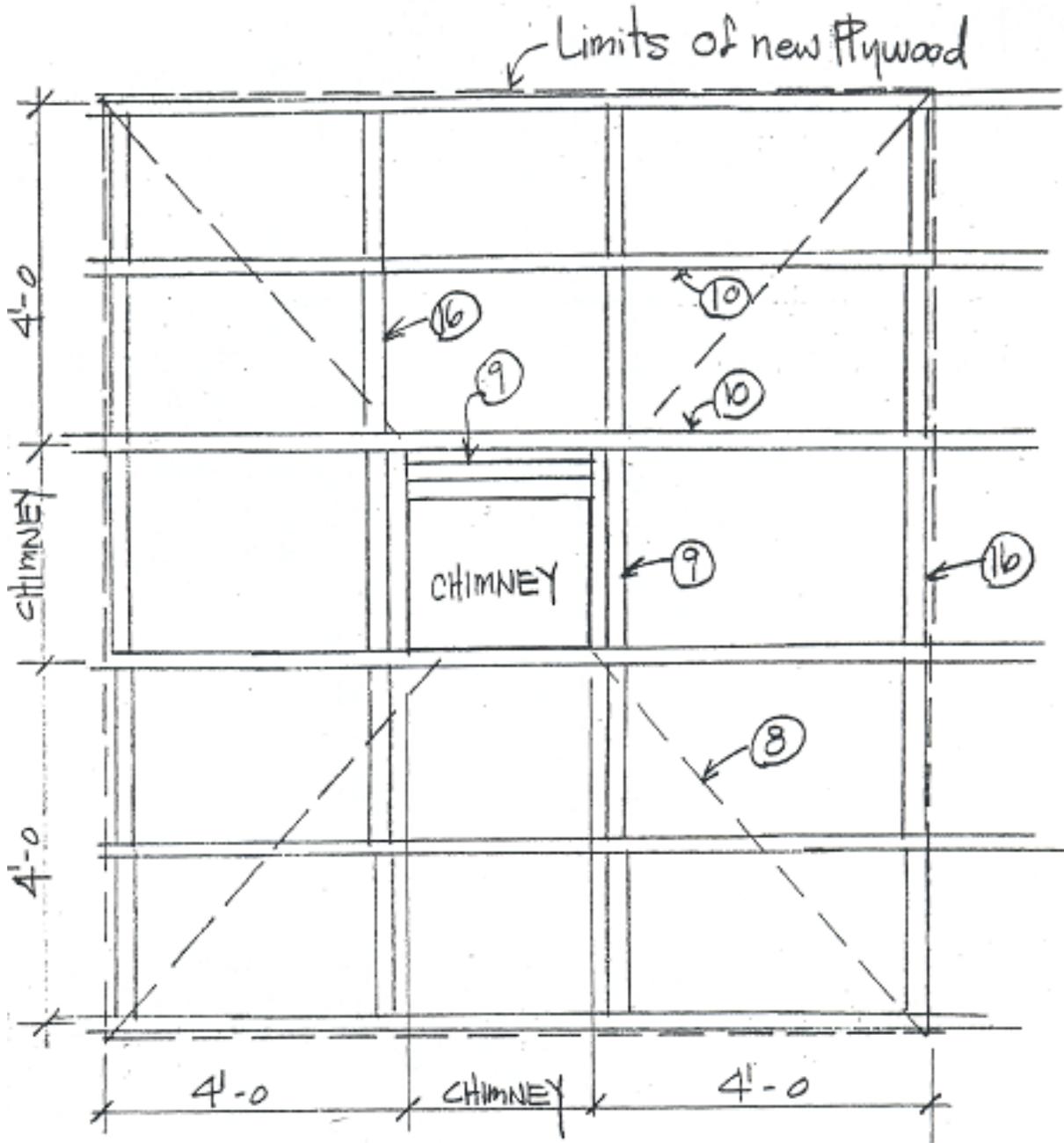
See Exhibit D for more information

See Detail A1 from Napa

See Keynotes in Exhibit A

See Detail C for Plan view

EXHIBIT C

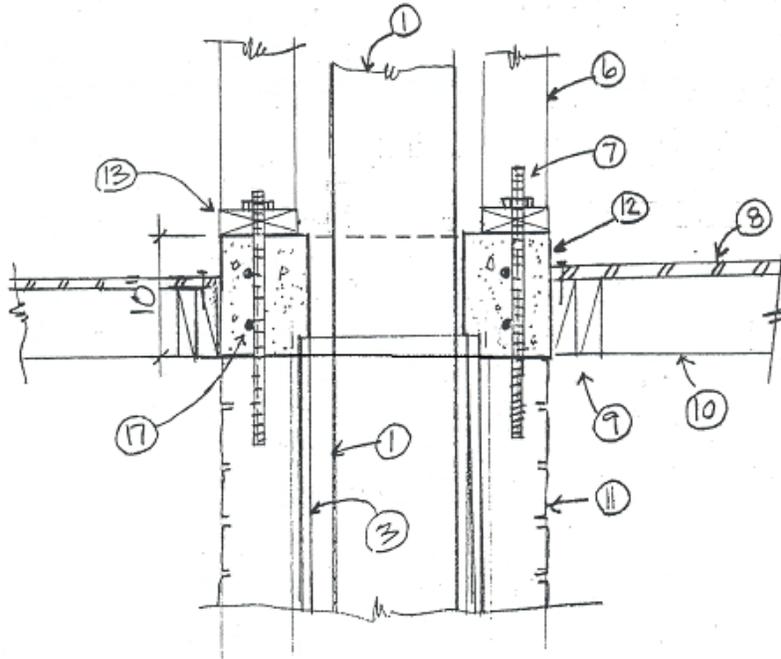


(C) PLAN VIEW OF NEW BRACING

EXHIBIT D

Transition at attic Level

2-28-01



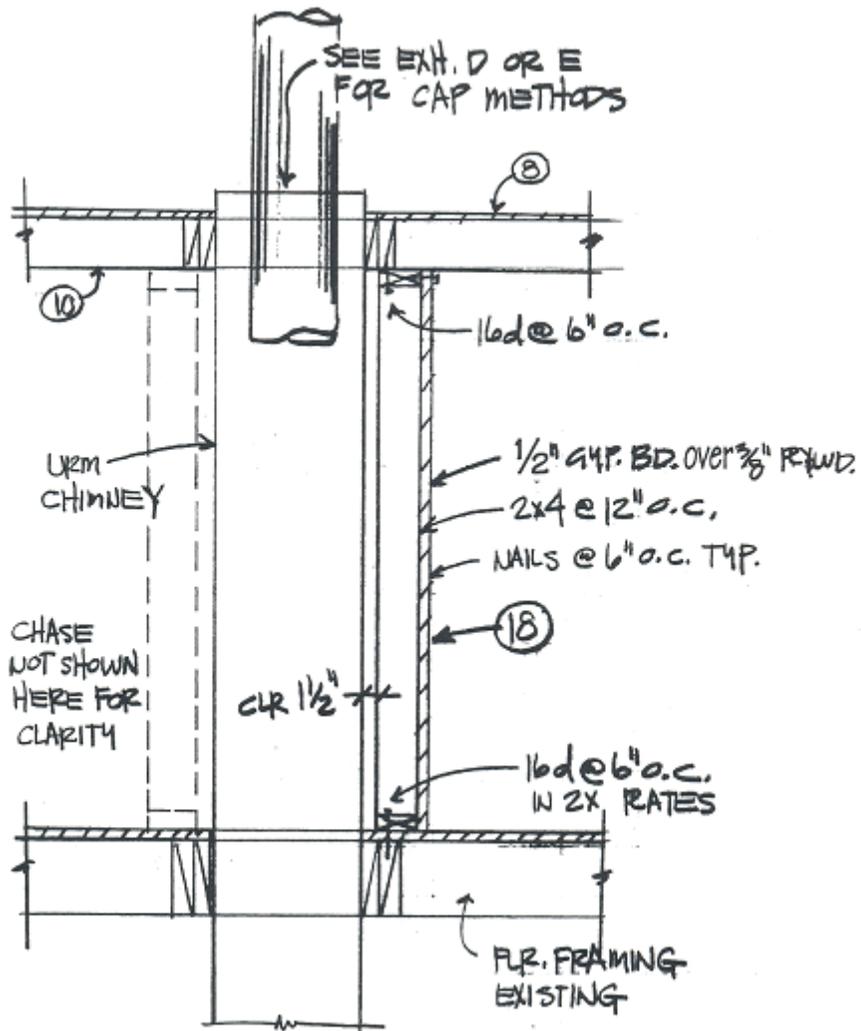
Note: Also see detail A1 from City of Napa

See keynotes in exhibit A

See cross section B in exhibits

EXHIBIT F NEW WOOD CHASE

3-28-01



SEE KEYNOTES IN EXHIBIT A