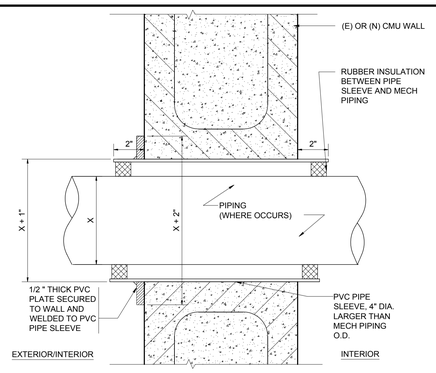
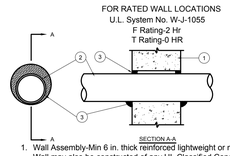


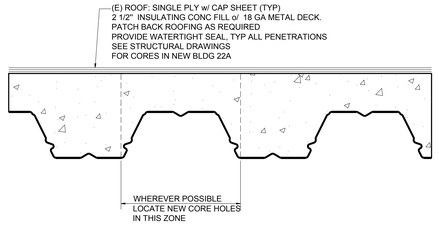
11 MECHANICAL PIPING PENETRATION THROUGH CMU
3" = 1'-0"



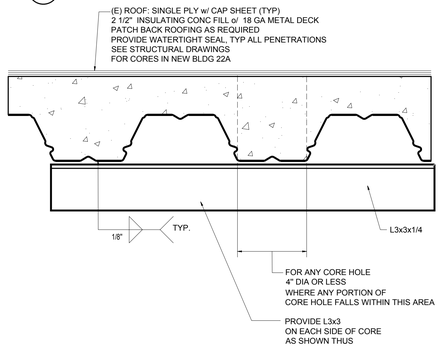
1. Wall Assembly-Min 6 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 26 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant-One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 1-3/4 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduit or tubing may be used:
   A. Steel Pipe-Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe-Nom 24 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit-Nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) steel conduit or nom I in. diam (or smaller) flexible steel conduit.
   D. Copper Tubing-Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe-Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material*-Sealant-Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and concrete, a min 3/8 in. diam bead of fill material shall be applied at the concrete/through penetrant interface on both surfaces of wall.

Specified Technologies Inc.-SpecSeal 100, 101, 102 or 105 Sealant
*Bearing the UL Classification Marking

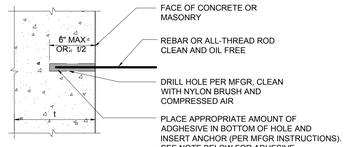
11 RATED PIPE/CONDUIT PENETRATION THROUGH CMU
NO SCALE



8 CORING - EXISTING DECK
3" = 1'-0"

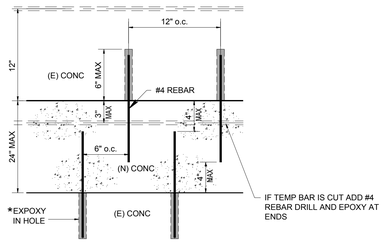


9 CORING - EXISTING DECK
3" = 1'-0"



NOTES:
1. THIS DETAIL MAY NOT BE USED FOR NEW CONSTRUCTION OMMISIONS UNLESS APPROVED IN ADVANCE BY THE SEOR.
2. HOLE SIZE VARIES BETWEEN MANUFACTURERS. VERIFY HOLE SIZE.
3. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME CATEGORY, NOT PREVIOUSLY TESTED, SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS THE TEST REQUIRMENTS AND THEN RESUME INITIAL TESTING FREQUENCY

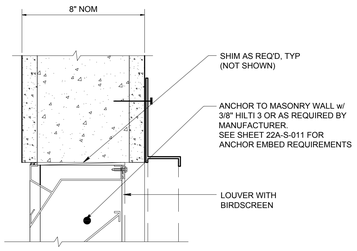
ADHESIVE ANCHORS



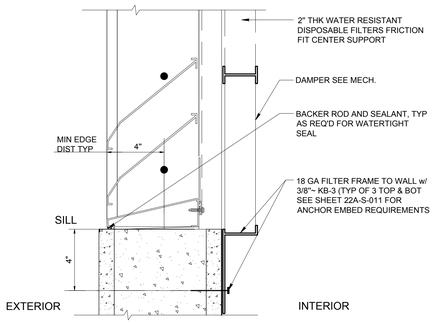
WHEN SAWCUTTING SLAB, DO NOT DAMAGE FOOTINGS, TAKE CARE NOT TO CUT REBAR. IF REBAR IS CUT, DRILL ALTERNATING HOLES INTO SIDE OF SLAB, AT 12" o.c., EPOXY #4 REBAR INTO HOLES AS SHOWN:

* TYPICAL EPOXY: SEE TABLE ON SHEET 22A-S-011 FOR ALLOWABLE MANUFACTURER'S (SPECIAL INSPECTION IS REQUIRED)

10 TRENCH CAP / CONCRETE SAWCUT REPAIR
3" = 1'-0"

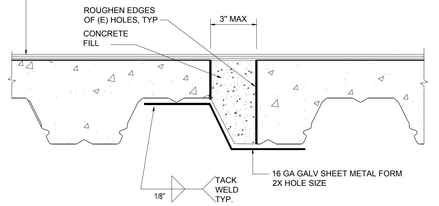


4 LOUVER - HEAD (JAMB SIM'L)
3" = 1'-0"



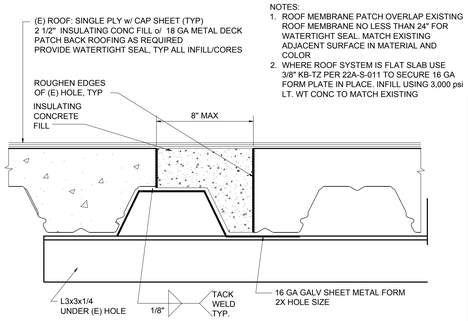
5 LOUVER - BASE
3" = 1'-0"

NOTES:
1. ROOF MEMBRANE PATCH OVERLAP EXISTING ROOF MEMBRANE NO LESS THAN 24" FOR WATERTIGHT SEAL. MATCH EXISTING ADJACENT SURFACE IN MATERIAL AND COLOR
2. WHERE ROOF SYSTEM IS FLAT SLAB USE 3/8" KB-TZ PER 22A-S-011 TO SECURE 16 GA FORM PLATE IN PLACE. INFILL USING 3,000 psi LT. WT CONC TO MATCH EXISTING

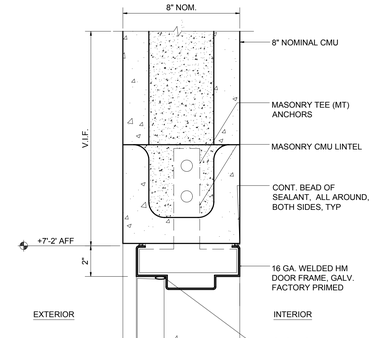


6 EXISTING DECK PENETRATION -PATCHING
3" = 1'-0"

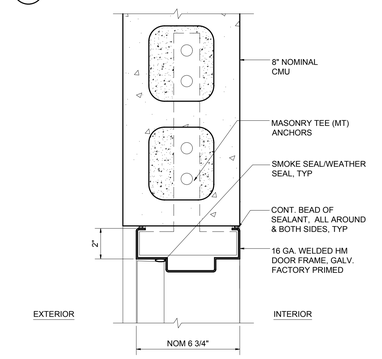
NOTES:
1. ROOF MEMBRANE PATCH OVERLAP EXISTING ROOF MEMBRANE NO LESS THAN 24" FOR WATERTIGHT SEAL. MATCH EXISTING ADJACENT SURFACE IN MATERIAL AND COLOR
2. WHERE ROOF SYSTEM IS FLAT SLAB USE 3/8" KB-TZ PER 22A-S-011 TO SECURE 16 GA FORM PLATE IN PLACE. INFILL USING 3,000 psi LT. WT CONC TO MATCH EXISTING



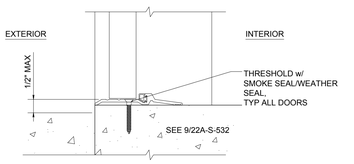
7 DECK PENETRATION -PATCHING
3" = 1'-0"



1 HOLLOW METAL DOOR - HEAD
3" = 1'-0"

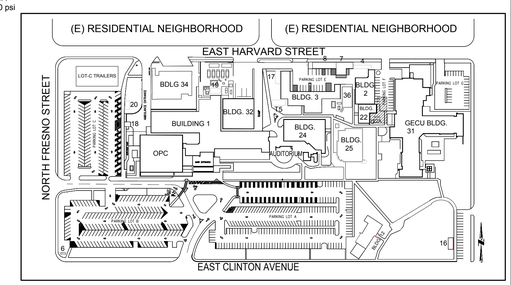


2 HOLLOW METAL DOOR - JAMB
3" = 1'-0"



3 HOLLOW METAL DOOR - BASE
3" = 1'-0"

KEY MAP



100% CONSTRUCTION DOCUMENT SUBMITTAL

Revisions	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

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Drawing Title	LOUVER SCHEDULE AND DETAILS
Approved: Project Director	-
Project Title	VA CENTRAL CALIFORNIA HEALTH CARE SYSTEM NEW BUILDING 22A + CHILLER INFRASTRUCTURE
Location	FRESNO, CA.
Date	5/08/2015
Checked	N.V.
Drawn	T.S.
Project Number	570-13-300
Building Number	22A
Drawing Number	AE-601
Dwg.	32 of 86

Office of Construction and Facilities Management
Department of Veterans Affairs

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