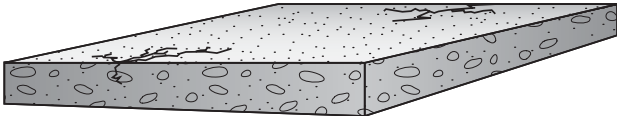


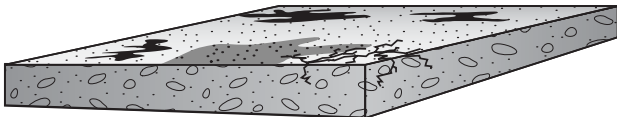
ENVIRONMENTAL DIAGNOSIS

Conditions To Consider When Analyzing Concrete



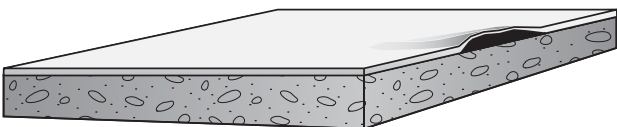
New Concrete

- Age
- Laitance
- Strength (Actual & Design)
- Vapor Barrier
- Cracking
- Joints (Control, Expansion, Isolation)
- Finish (Troweled, Broomed, Floated)



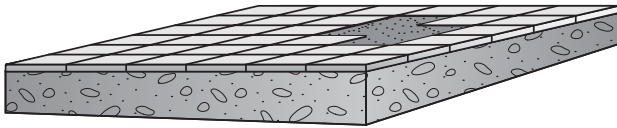
Existing Concrete

- Age
- Strength
- Mechanical Deterioration
- Chemical Attack
- Vapor Barrier
- Cracking
- Flatness
- Stained and Saturated



Coating/Overlayment

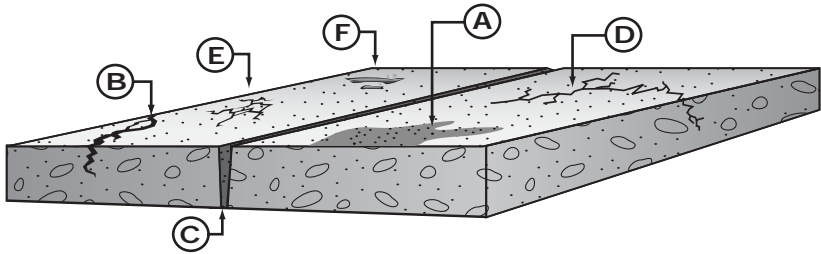
- Type of Coating/Overlayment (Epoxy, Urethane, Polyester, etc.)
- Thickness
- Delamination
- Bond Strength
- Surface Prep Used
- Pitch



Brick/Tile

- Acid Brick, Quarry Tile, Ceramic
- Mechanical Deterioration
- Chemical Attack
- Grout Bed Evident
- Concrete Condition Below

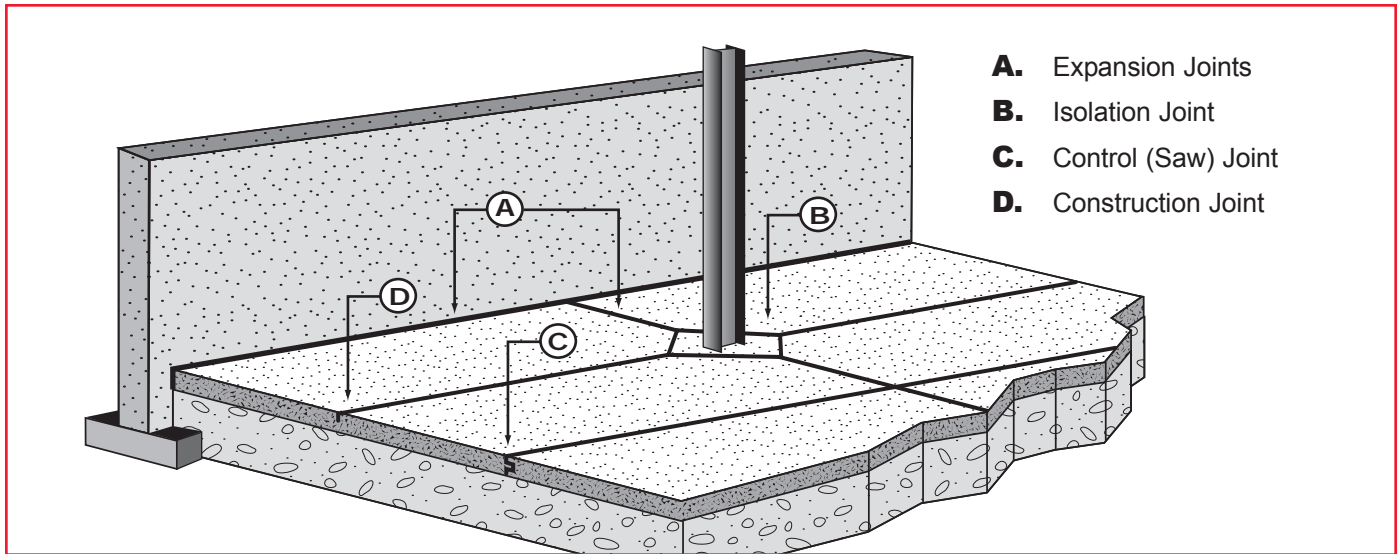
Identification of Substrate Problems



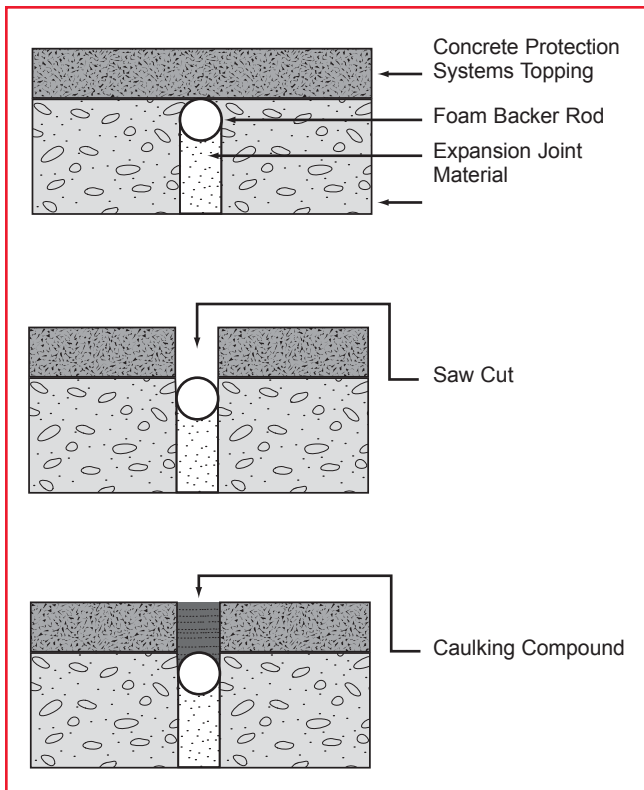
- A.** Dusting
- B.** Structural
- C.** Joint Movement
- D.** Shrinkage
- E.** Crazing
- F.** Voids (Popouts)

REFERENCE DIAGRAMS

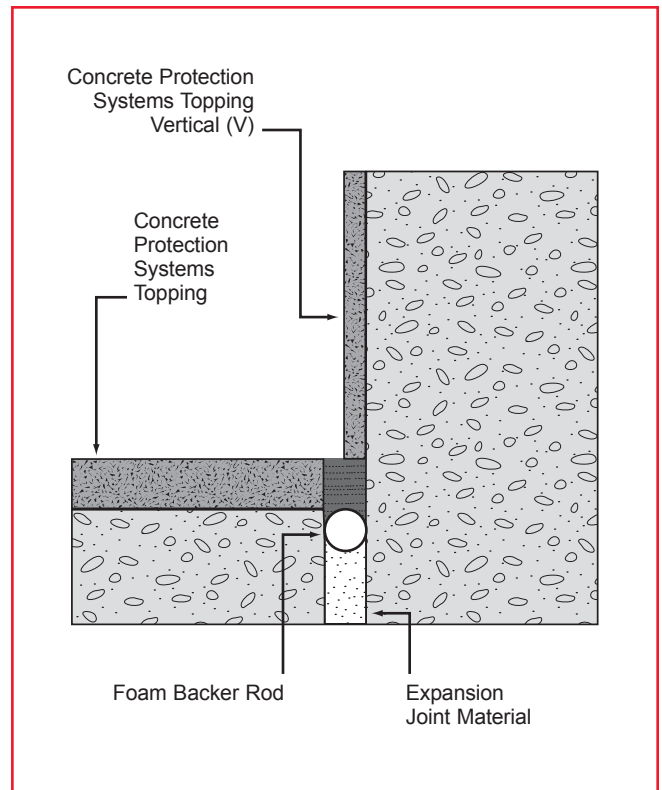
Joint Identification



Saw Cutting



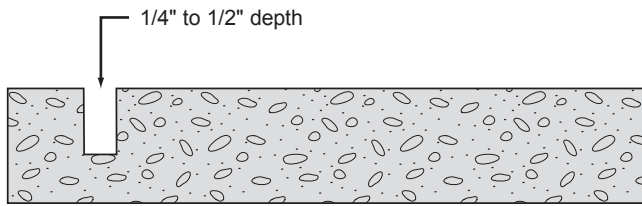
Vertical/Horizontal Junction



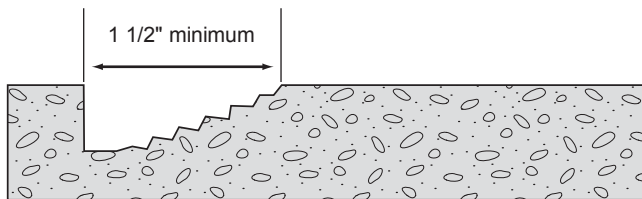
REFERENCE DIAGRAMS (cont.)

Chasing

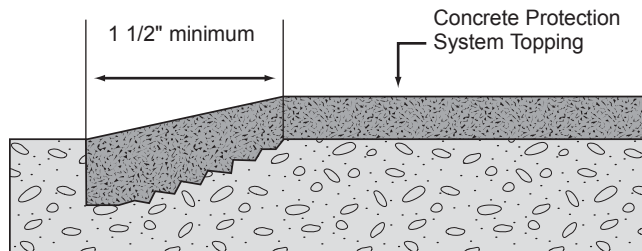
Saw Cut



Chisel Shoulder

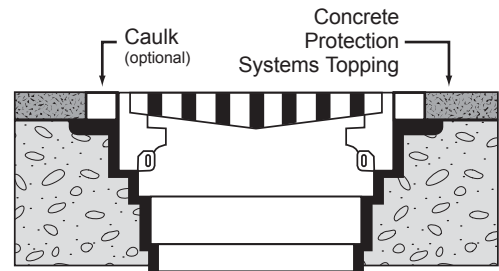
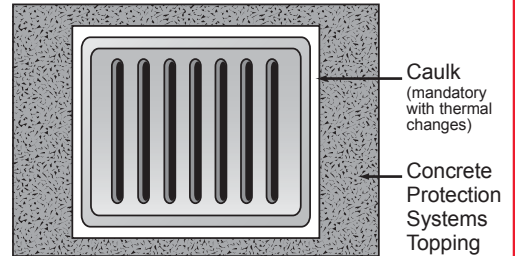


Properly Finished Chase

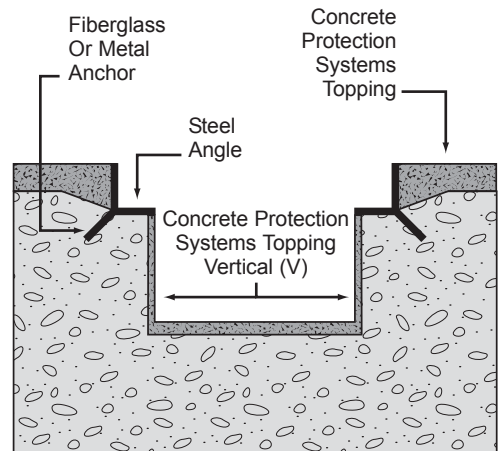


Drains

Square

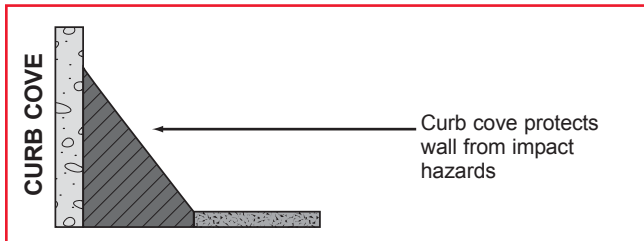
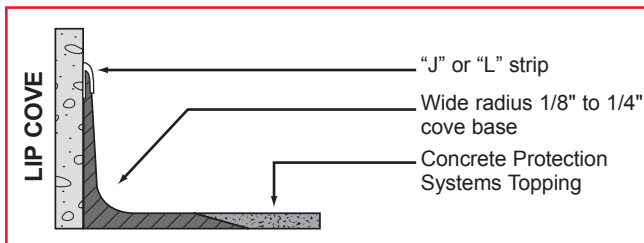
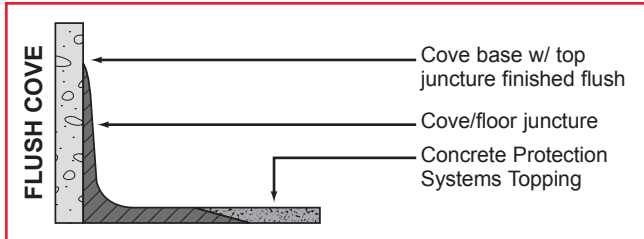


Trench or Sump

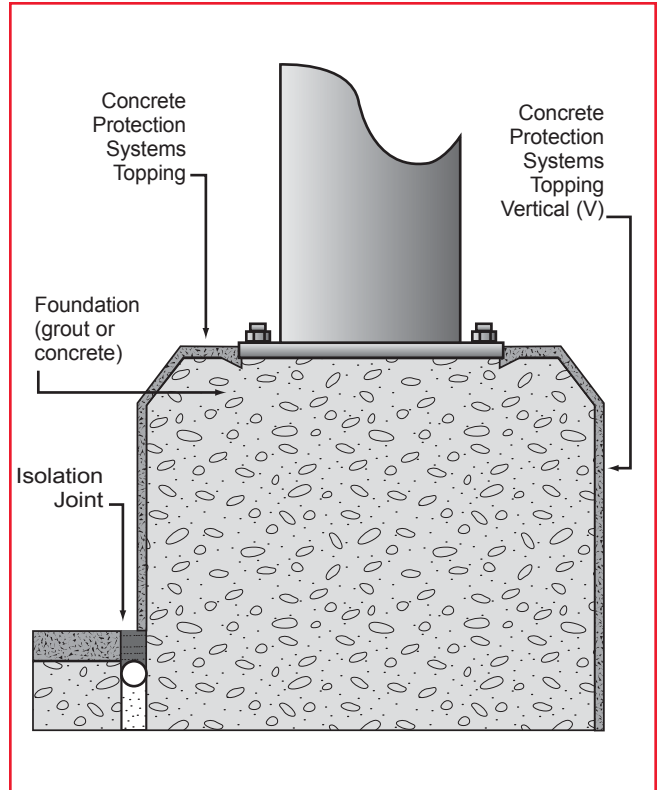


CHEMICAL RESISTANCE

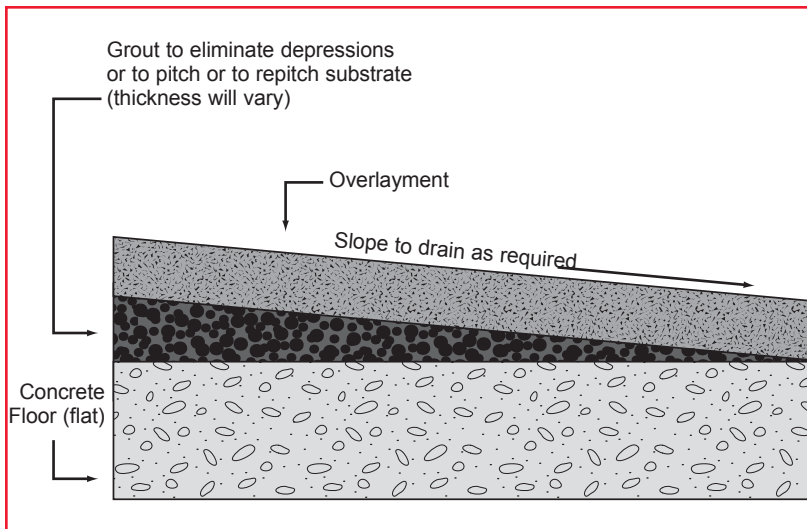
Cove Base Details



Column Foundation



Floor Pitch Details



PITCH RATES

% Slope	in/ft Slope	Surface Effect
0%	0"	No flow
1%	1/8"	Fluid flows with assistance
1.5%	3/16"	Fluid flows with some assistance
2%	1/4"	Complete flow with no assistance