



**NOTES:**

- ① Inlet shall be paved swale, rectangular conduit, or pipe(s). Max. inlet diameter/height shall be curb height minus 2". A junction box shall have access/cleanout. Inlet type shall have approval of City Engineer.
- ② Frame and covers: NEENAH R-4990, type D, solid top with PERMA-GRIP surface, or approved equal. There shall be a 1/8" space between the frame and the lid. When underdrain is located in Mission Style sidewalk, covers shall be coated with epoxy paint colored to match sidewalk color.
- ③ Cover length shall maintain a cover weight of at least 100 lbs each.
- ④ Underdrain shall not be closer than 5' from driveway or curb return.
- ⑤ 1" radius at end of channel, each side of outlet.
- ⑥ Frame end piece, required for alternate method.
- ⑦ Channel slope shall be no less than 2% and shall be parallel with sidewalk surface.
- ⑧ #4 rebar @ 12" o.c., both ways.
- ⑨ Concrete shall be Class 3.
- ⑩ Channel width varies, 18" min. and 3' max.
- ⑪ See Engineering Standard #4110 for notes regarding required pavement removal & repair.

REVISIONS	BY	APP	DATE
New border	JDL	WAP	5-98
Revise re-bar specs	JDL	WAP	11-98
Rev. Note 2 & CL2R Base	DVB	BL	11-08
STANDARD CURRENT AS OF: January 2010			



**SIDEWALK UNDERDRAIN WITH COVER PLATES**