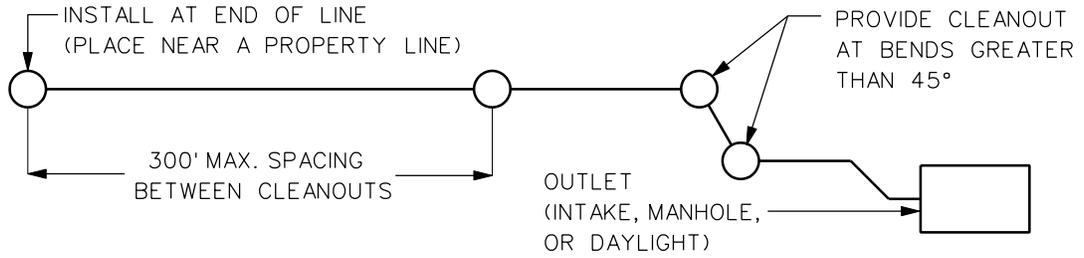
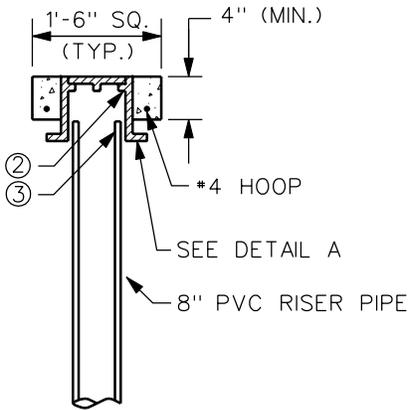


URBAN STANDARD SPECIFICATIONS for PUBLIC IMPROVEMENT MANUAL

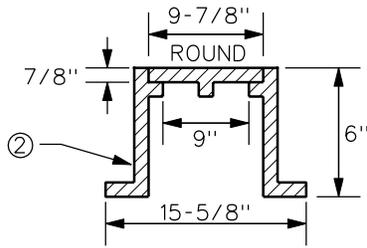


CLEANOUT LOCATIONS

(FOR TYPE II SUBDRAIN - SEE NOTE)

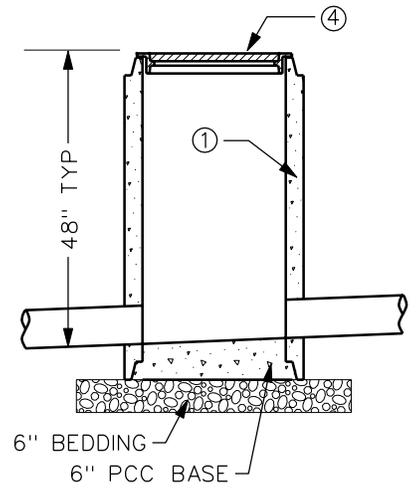


TYPE 1



DETAIL A

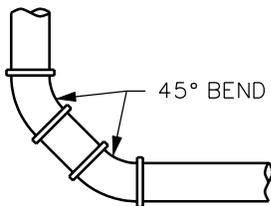
(DIMENSIONS ARE NOMINAL)



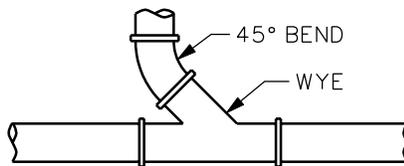
**TYPE 2
(NON-TRAFFIC AREAS ONLY)**

CLEANOUTS ⑤

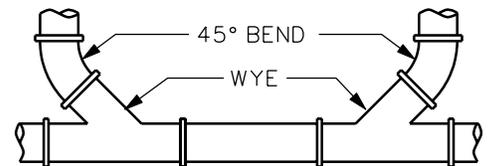
- ① 24" DIA. CL III RCP FOR SUBDRAIN 8" OR SMALLER; 30" DIA. CL III RCP FOR 10" - 12" SUBDRAIN.
- ② HEAVY DUTY CAST IRON FRAME AND COVER. MARK LID WITH "STORM" OR "STORM C.O."
- ③ DO NOT ALLOW CASTING TO BEAR ON TOP OF RISER PIPE; PROVIDE 2" CLEARANCE, MIN.
- ④ PROVIDE TYPE G CASTING, AS REQUIRED TO FIT PIPE SIZE.
- ⑤ A MANUFACTURED CLEANOUT MAY BE USED IF APPROVED BY THE JURISDICTIONAL ENGINEER.



TYPE A



TYPE B



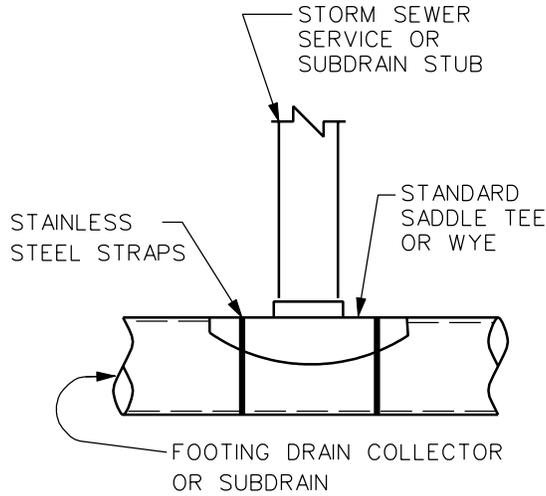
TYPE C

CLEANOUT CONNECTIONS

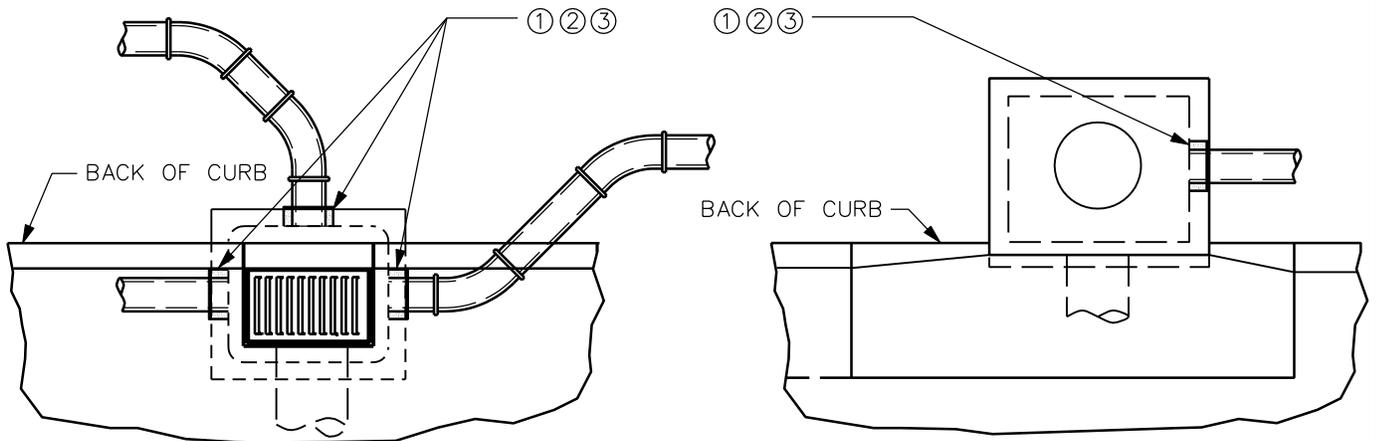
NOTES:

TYPE II SUBDRAINS, FOOTING DRAIN COLLECTORS, REQUIRE CLEANOUTS AT THE LOCATIONS AND SPACING SHOWN ABOVE, OR AS SHOWN ON THE PLANS. CLEANOUTS ARE NOT REQUIRED FOR TYPE I LONGITUDINAL SUBDRAINS UNLESS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SPECIFIED, CLEANOUTS FOR TYPE I SUBDRAINS SHALL BE PROVIDED AS DETAILED ABOVE AT THE LOCATIONS AND SPACING SHOWN IN THE CONTRACT DOCUMENTS.

REV.	DATE	BY	SUBDRAIN CLEANOUTS AND CONNECTIONS	FIGURE: 4020.6
DATE: 10-18-05				SHEET 1 OF 2



SERVICE / STUB CONNECTION



INTAKE CONNECTIONS

- ① FILL ANNULAR SPACE WITH NON-SHRINK GROUT
- ② RODENT GUARD GRATES PER IOWA DOT I.M. 443.01 REQUIRED FOR PIPES 6" AND SMALLER
- ③ OUTLETS THROUGH INTAKE WALLS TO BE CMP; CORRUGATED, DOUBLE-WALLED HDPE; OR PVC

NOTE: SUBDRAIN AND FOOTING DRAIN OUTLETS ARE CONSIDERED INCIDENTAL

REV.	DATE	BY	SUBDRAIN CLEANOUTS AND CONNECTIONS	FIGURE: 4020.6
DATE: 10-18-05				SHEET 2 OF 2