installation notes:
1. Manhole cover and frame shall be Phoenix P-1090, S.B. Foundries 1900, or equal, lettered "Storm Sewer".
2. Collar shall be constructed per Engineering Standard 6040.
3. Adjusting rings as needed, grouted on the inside.
4. Steps are required when depth exceeds 4' and shall be steel-reinforced polypropylene per ASTM C-478, MA Industries PS-2-PFS, or equal.
5. Precast shaft(s) and eccentric cone per ASTM C-478. Straight side of cone shall be positioned over shelf. Concentric cone may be used only with written approval of City Engineer.
6. Joints shall be set with butyl rubber sealant - (RUB'R-NEK).
7. Manhole base shall be Class 2 PCC and rest on undisturbed material. Bottom shaft shall be wet-set or set in formed groove.
8. Pipe shall be laid through manhole and top portion shall be removed after base is poured. Trough shall have steel-trowel finish, vertical sides, and rounded corners. Top surface shall have 8.33% slope toward trough.
9. #4 @ 18" O.C.
10. #4 x 4' (2 total)
11. #4 x 5' (8 total)