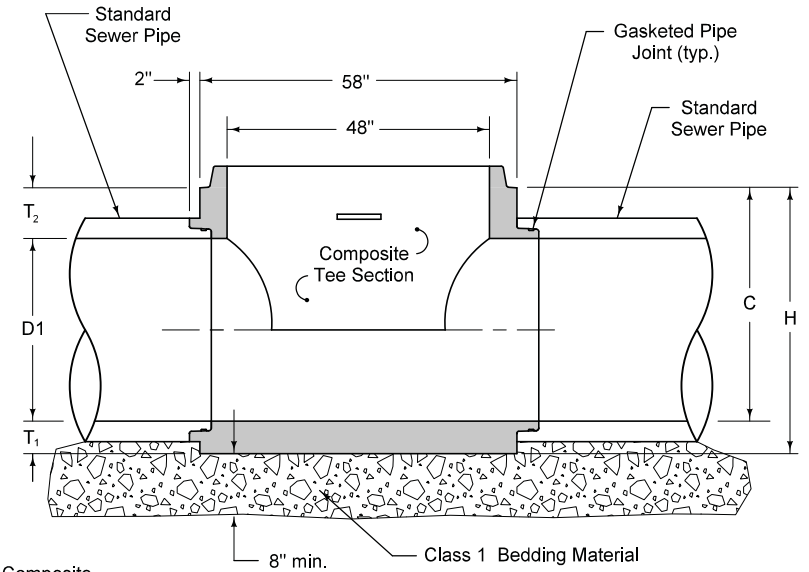
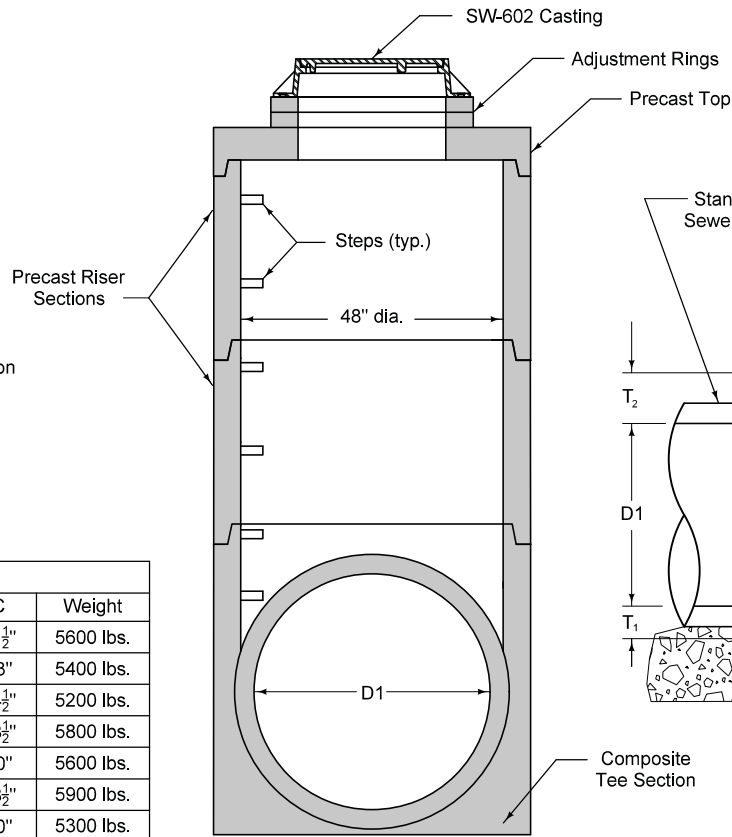
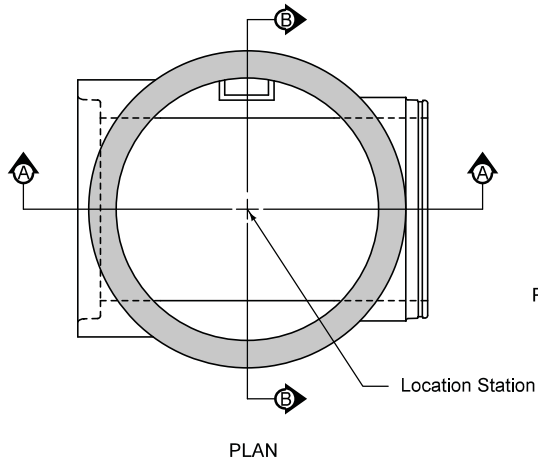


① For sewer pipes less than 48 inch diameter, install eccentric reducers/increasers with a standard tee or utilize a composite tee.

FIGURE 6010.405 SHEET 1 OF 2

|  |                    |  |
|--|--------------------|--|
| SUDAS  | IOWADOT            | REVISION   |
|  |                    | 1   10-21-14   |
| FIGURE 6010.405  | STANDARD ROAD PLAN | <b>SW-405</b>  |
|  |                    | SHEET 1 of 2   |
| REVISIONS: Removed flow arrow.                         |                    |  |
| <i>Paul D. Wigand</i><br><small>SUDAS DIRECTOR</small> |                    | <i>Brian Smith</i><br><small>DESIGN METHODS ENGINEER</small> |
| <b>TEE-SECTION<br/>STORM SECTION MANHOLE</b>           |                    |  |



| COMPOSITE TEE DIMENSIONS |     |     |                |                |      |           |
|--------------------------|-----|-----|----------------|----------------|------|-----------|
| Size                     | D1  | H   | T <sub>1</sub> | T <sub>2</sub> | C    | Weight    |
| 48" on 12"               | 12" | 50" | 8½"            | 29½"           | 41½" | 5600 lbs. |
| 48" on 15"               | 15" | 50" | 7"             | 28"            | 43"  | 5400 lbs. |
| 48" on 18"               | 18" | 50" | 5½"            | 26½"           | 44½" | 5200 lbs. |
| 48" on 21"               | 21" | 48" | 9½"            | 17½"           | 38½" | 5800 lbs. |
| 48" on 24"               | 24" | 48" | 8"             | 16"            | 40"  | 5600 lbs. |
| 48" on 27"               | 27" | 48" | 9½"            | 11½"           | 38½" | 5900 lbs. |
| 48" on 30"               | 30" | 48" | 8"             | 10"            | 40"  | 5300 lbs. |
| 48" on 33"               | 33" | 54" | 9½"            | 11½"           | 44½" | 6600 lbs. |
| 48" on 36"               | 36" | 54" | 8"             | 10"            | 46"  | 6100 lbs. |

SECTION B-B

SECTION A-A

COMPOSITE TEE

Alternate to standard tee with eccentric reducer (for pipes 36" and smaller).

FIGURE 6010.405 SHEET 2 OF 2

|   |                 |   |               |
|---|-----------------|---|---------------|
| SUDAS<br>IOWADOT                                | REVISION        | 1   | 10-21-14      |
|   | FIGURE 6010.405 | STANDARD ROAD PLAN                                    | <b>SW-405</b> |
| REVISIONS: Removed flow arrow.                  |                 |   | SHEET 2 of 2  |
| Paul D. Wigand<br><small>SUDAS DIRECTOR</small> |                 | Brian Smith<br><small>DESIGN METHODS ENGINEER</small> |               |
| <b>TEE-SECTION<br/>STORM SECTION MANHOLE</b>    |                 |   |               |