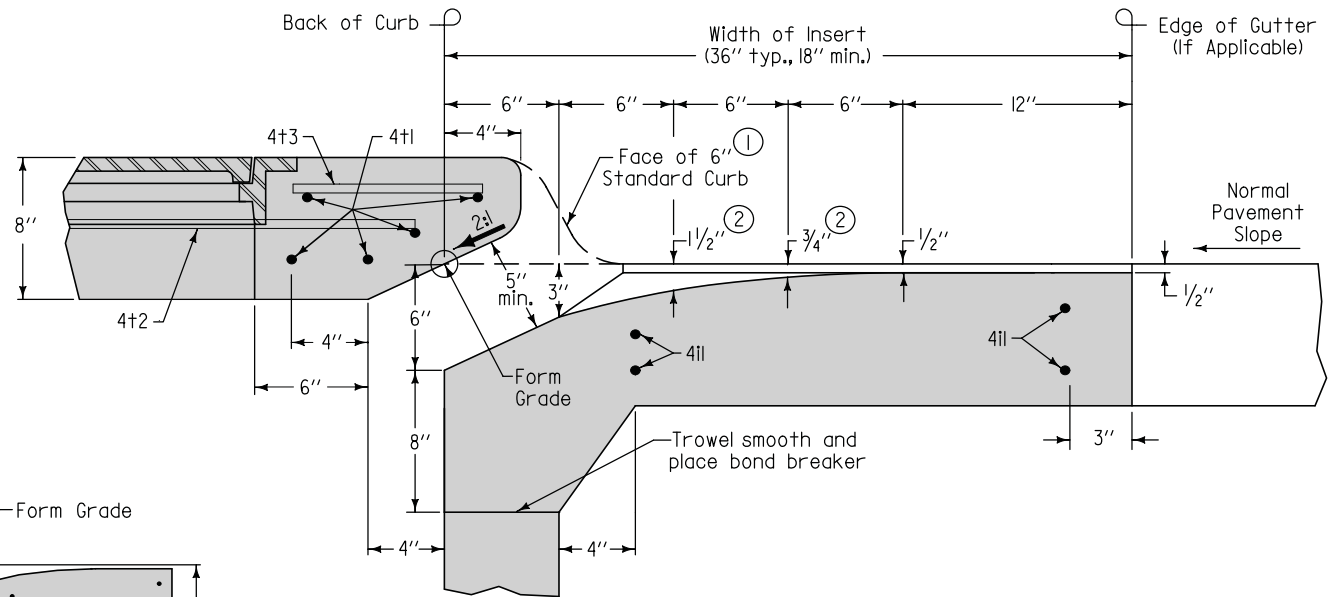
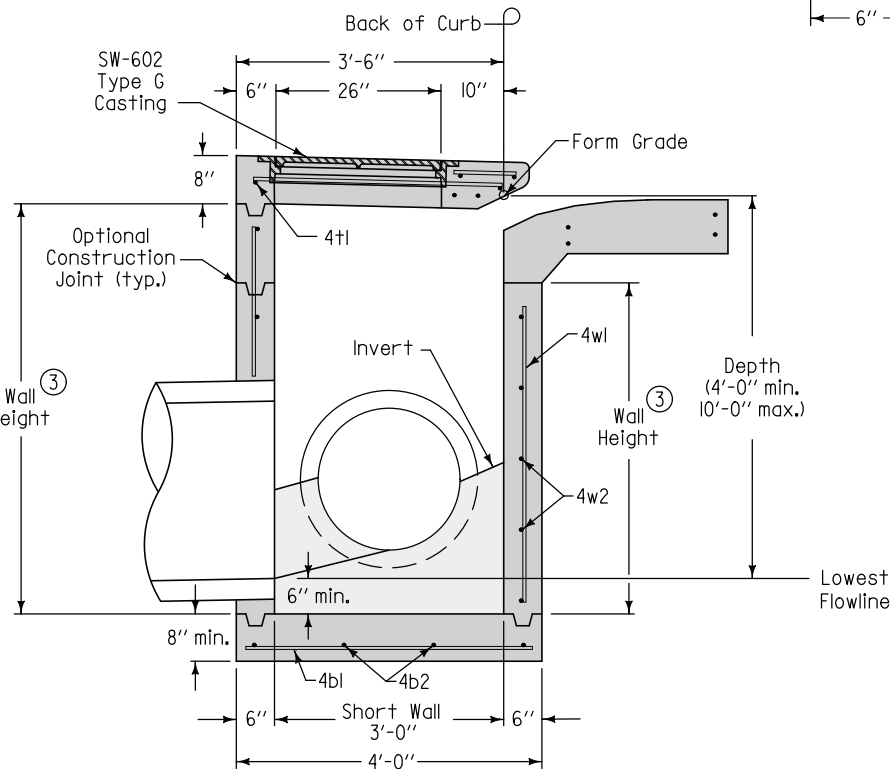




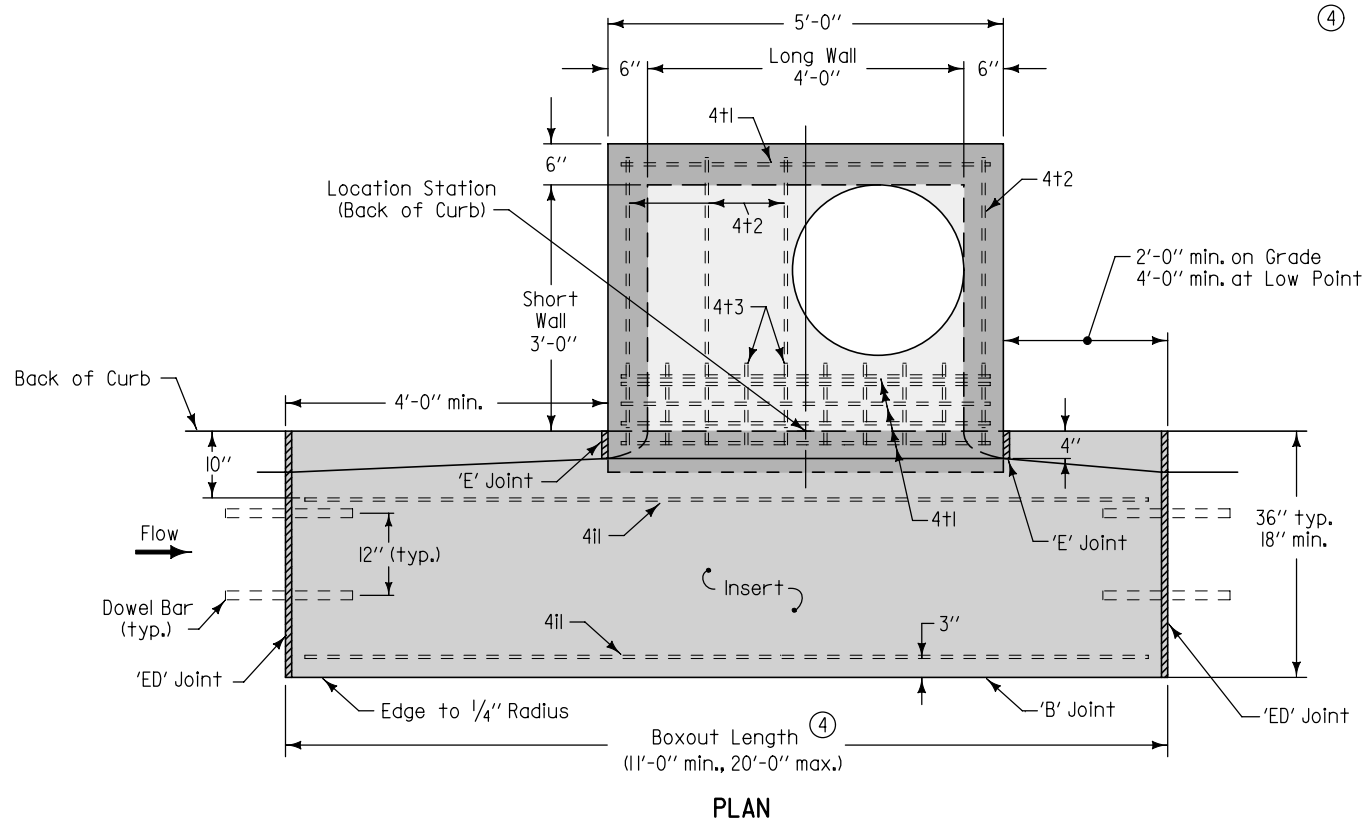
### INSERT

- ① Modify dimensions as required to accommodate other curb heights when specified.
- ② Insert shaping may be modified for insert widths less than 36 inches. For an 18 inch insert, reduce dimensions indicated by 1/2 inch.
- ③ 12 inch minimum wall height above all pipes.



TYPICAL SECTION

|                                                                                                         |                                                                                                                         |                                                                                                                  |          |  |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------|--|
|  SUDAS             |  Iowa Department of Transportation | REVISION                                                                                                         |          |  |
|                                                                                                         |                                                                                                                         | NEW                                                                                                              | 04-21-09 |  |
| FIGURE 6010.507                                                                                         |                                                                                                                         | STANDARD ROAD PLAN                                                                                               |          |  |
| SW-507                                                                                                  |                                                                                                                         | SHEET 1 of 2                                                                                                     |          |  |
|                                                                                                         |                                                                                                                         |                                                                                                                  |          |  |
| REVISIONS: New. Replaces SUDAS type "M-F" Intake.                                                       |                                                                                                                         |                                                                                                                  |          |  |
| <br>SUDAS DIRECTOR |                                                                                                                         | <br>DESIGN METHODS ENGINEER |          |  |
| SINGLE OPEN-THROAT<br>INTAKE, SMALL BOX                                                                 |                                                                                                                         |                                                                                                                  |          |  |



| MAXIMUM PIPE DIAMETERS |                   |                         |
|------------------------|-------------------|-------------------------|
| Pipe Location          | Precast Structure | Cast-in-place Structure |
| Short Wall             | 24"               | 30"                     |
| Long Wall              | 30"               | 36"                     |

FIGURE 6010.507 SHEET 2 OF 2

| REINFORCING BAR LIST |      |             |       |        |                        |            |
|----------------------|------|-------------|-------|--------|------------------------|------------|
| Mark                 | Size | Location    | Shape | Count  | Length                 | Spacing    |
| 4t1                  | 4    | Top         | —     | 6      | 4'-8"                  | See Insert |
| 4t2                  | 4    | Top         | —     | 4      | 3'-6"                  | 12"        |
| 4t3                  | 4    | Top         | —     | 10     | 10"                    | 6"         |
| 4b1                  | 4    | Base        | —     | 6      | 3'-6"                  | 11"        |
| 4b2                  | 4    | Base        | —     | 5      | 4'-6"                  | 10"        |
| 4il                  | 4    | Insert      | —     | 4      | Boxout Length minus 8" | See Plan   |
| 4w1                  | 4    | Walls       | —     | 14     | Wall Height minus 4"   | 14"        |
| 4w2                  | 4    | Long Walls  | —     | Varies | 4'-8"                  | 12"        |
| 4w3                  | 4    | Short Walls | —     | Varies | 3'-8"                  | 12"        |

|                                                   |                                   |                         |          |
|---------------------------------------------------|-----------------------------------|-------------------------|----------|
| SUDAS                                             | Iowa Department of Transportation | REVISION                |          |
|                                                   |                                   | NEW                     | 04-21-09 |
|                                                   |                                   | <b>SW-507</b>           |          |
| <b>FIGURE 6010.507 STANDARD ROAD PLAN</b>         |                                   | <b>SHEET 2 of 2</b>     |          |
| REVISIONS: New. Replaces SUDAS Type "M-F" Intake. |                                   |                         |          |
| SUDAS DIRECTOR                                    |                                   | DESIGN METHODS ENGINEER |          |
| <b>SINGLE OPEN-THROAT<br/>INTAKE, SMALL BOX</b>   |                                   |                         |          |