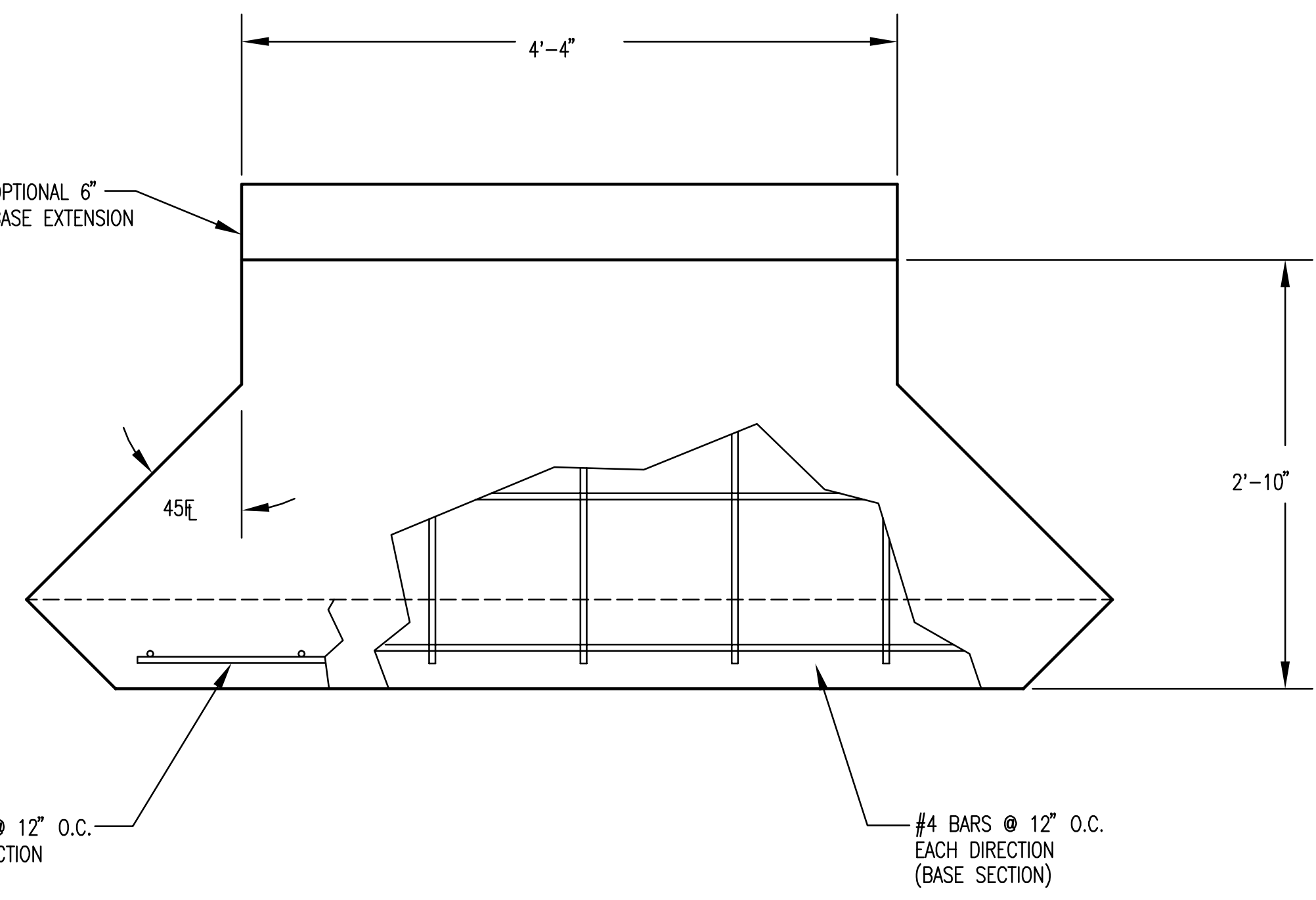
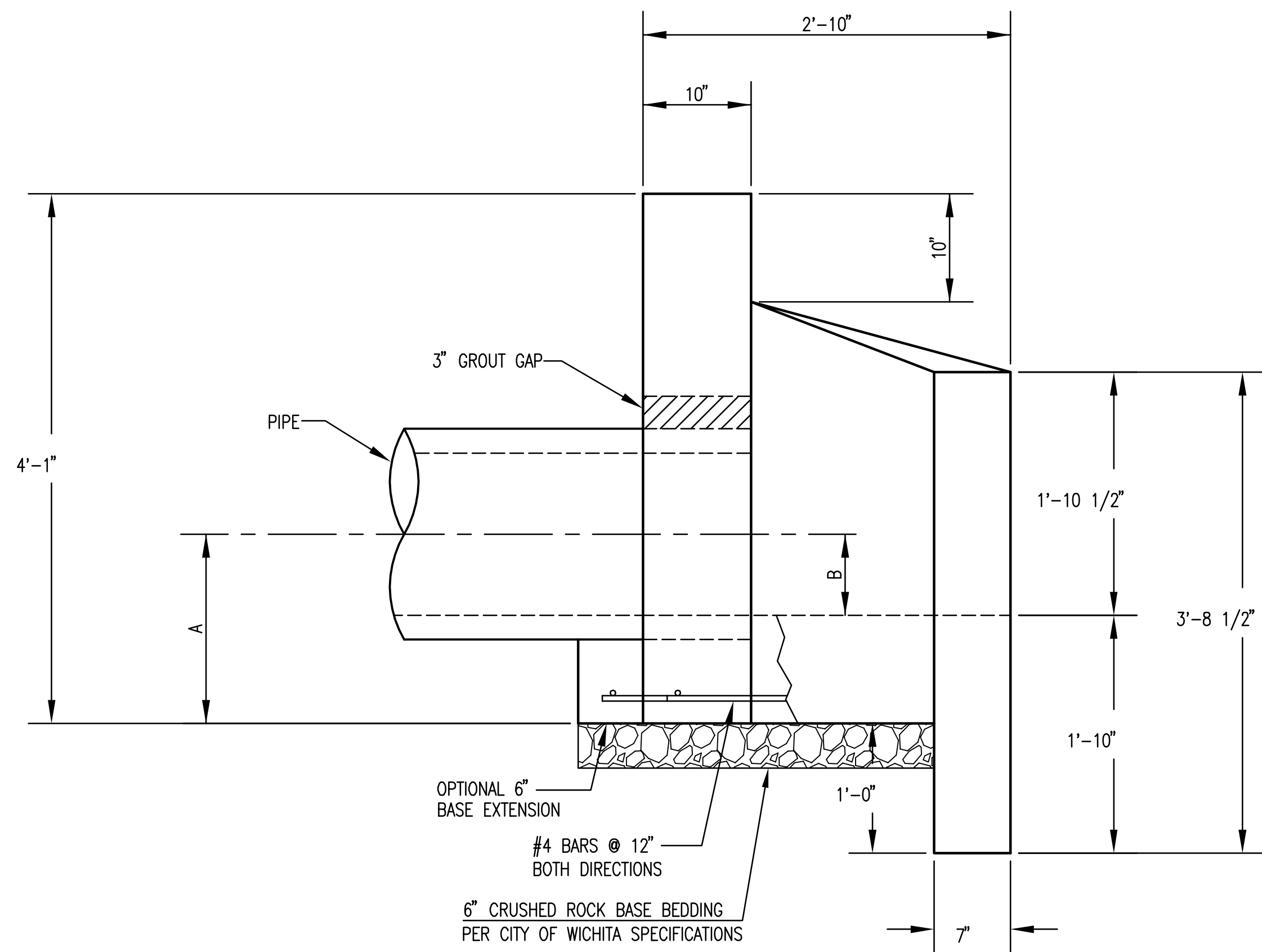


PLAN VIEW

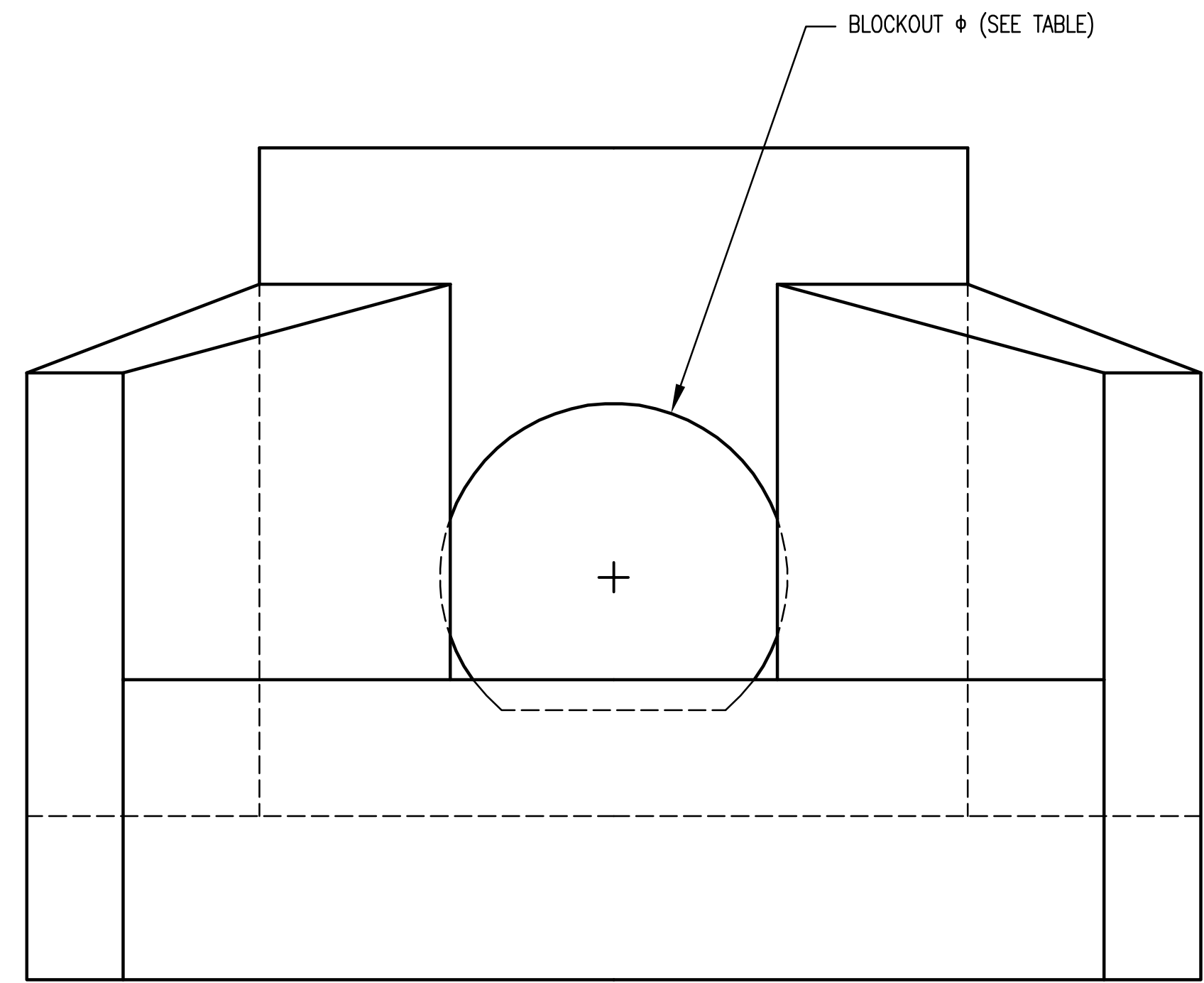


PLAN VIEW  
BASE

| PIPE $\phi$ | A         | B      | BLOCKOUT $\phi$ |
|-------------|-----------|--------|-----------------|
| 15"         | 1'-5 1/2" | 7 1/2" | 2'-1 1/2"       |
| 18"         | 1'-7"     | 9"     | 2'-5"           |
| 24"         | 1'-10"    | 1'-0"  | 3'-0"           |



ELEVATION



FRONT VIEW

HEADWALLS, AS SHOWN, WILL NOT SUPPORT FLAP GATE.



**HEADWALL  
DETAILS FOR  
15", 18", AND 24" PIPE**

INTERIM CITY ENGINEER  
**GARY JANZEN, P.E.**

|                                    |                             |                        |
|------------------------------------|-----------------------------|------------------------|
| PROJECT NUMBER<br><b>468-84819</b> | OCA NUMBER<br><b>751509</b> | DATE<br><b>11/2010</b> |
|------------------------------------|-----------------------------|------------------------|

**CITY ENGINEER'S OFFICE**  
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455 NORTH MAIN STREET  
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(316) 268-4501

|                          |       |
|--------------------------|-------|
| DESIGN                   | DRAWN |
| SHEET<br><b>15 of 20</b> |       |

Sheet 06-04-2010 5:38:24 PM by BLS  
 Proj Name 11-08-05-2012 6:46:59 AM by BILL L. SEASON  
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