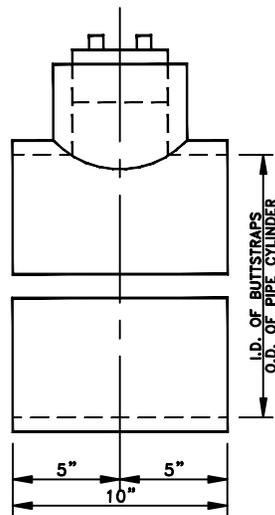


**END VIEW**



**SIDE VIEW**

**NOTES:**

1. 1 HANDHOLE REQUIRED FOR 4"  $\phi$  PIPE THROUGH 16"  $\phi$  PIPE.
2. 2 HANDHOLES REQUIRED FOR 20"  $\phi$  PIPE THROUGH 30"  $\phi$  PIPE.
3. UP TO CLASS 200 PIPELINES:
  - "T"=3/16" FOR 4"  $\phi$  THROUGH 24"  $\phi$ .
  - "T"=1/4" FOR 30"  $\phi$
  - 5"-BLACK, HALF-COUPLING, CLASS 150, CRANE OR APPROVED EQUAL.
  - 5"-BLACK, CORED, BAR PLUG, CLASS 150, CRANE OR APPROVED EQUAL.
4. GREATER THAN CLASS 200 THROUGH CLASS 350 PIPELINES:
  - "T"=3/16" FOR 4"  $\phi$  THROUGH 14"  $\phi$ .
  - "T"=1/4" FOR 16"  $\phi$  THROUGH 20"  $\phi$ .
  - "T"=5/16" FOR 24"  $\phi$ .
  - "T"=3/8" FOR 30"  $\phi$ .
  - 5"+BLACK, HALF-COUPLING, CLASS 300, CRANE OR APPROVED EQUAL.
  - 5"+BLACK, SOLID, BAR PLUG, CLASS 300, CRANE OR APPROVED EQUAL.

AUGUST 2005

CITY OF CHIND HILLS		<b>TYPICAL BUTT STRAP CONNECTION</b>	<b>W-21</b>	
Revised: / /	by:			Approved by:
Revised: / /	by:			
Revised: / /	by:			CITY ENGINEER