

NOTE 1: Blocking of typical horizontal bend will include all bends 11-1/4° (1/32) to 90° (1/4).

NOTE 2: Block tee as shown. In the event that one side of watermain is plugged, two thrusts blocks will be required.

NOTE 3: Blocking of plug is to include plyboard between the plug and concrete.

NOTE 4: Blocking of cross with two plugs is as shown. With only one plug proceed same as tee.

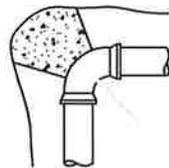
NOTE 5: Install concrete anchor and tie downs as per gate valve if size is reduced two pipe sizes or more.

NOTE 6: All vertical bends to be blocked and tied down as shown.

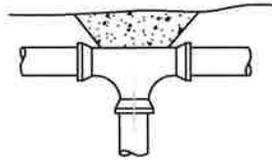
NOTE 7: All valves in watermain and on hydrant leads, gate valve, butterfly or tapping, will be tied down as shown. Care shall be taken to keep concrete off of nuts and bolts to insure future maintenance.

NOTE 8: All hydrants to be blocked as shown. Keep concrete away from weep holes.

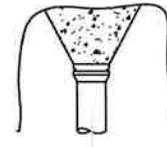
NOTE 9: The end area of concrete thrust blocks will be determined from the chart on standard detail 1323 of the standard specifications.



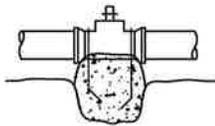
Typical Horizontal Bend
NOTE 1



Tee & Wye
NOTE 2



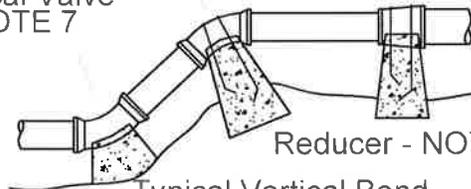
Dead end or Plug
NOTE 3



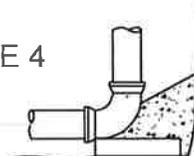
Typical Valve
NOTE 7



Cross - NOTE 4



Reducer - NOTE 5



Hydrant - NOTE 8

Typical Vertical Bend
NOTE 6

Scale	Sheet #
NTS	1 of 1
Date	04/07/2015
File Name	Construction Details.dwg

DISCLAIMER

The specifications represented in this document are in accordance with established City of Mandan Engineering & Planning practices and are an electronic facsimile of the specifications on file in the City of Mandan Engineering & Planning Department. However, neither the City of Mandan nor its employees can or do warranty these specifications to be complete specifications for any or all construction projects. The specification document, together with all addendums listed in each construction project specification, shall be the project specification for the City of Mandan. The user acknowledges and accepts all the data "as is", including the fact that the details are under a constant state of maintenance, correction and revision.

1326 CONCRETE THRUST BLOCKING DETAIL

