

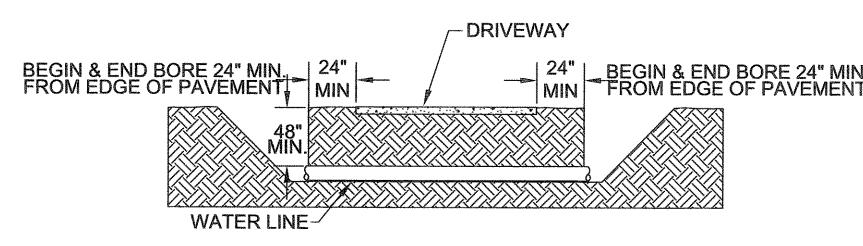
MINIMUM THRUST BLOCK DIMENSIONS

PIPE SIZE	Α	В	С	D	Е	F
6"	18"	20"	12"	26"	18"	18"
8"	22"	26"	14"	29"	21"	22"
10"	28"	34"	18"	35"	25"	28"
12"	34"	40"	20"	42"	30"	34"

THRUST BLOCK DETAILS NOT TO SCALE

NOTES:

- 1. SELECT BACKFILL SHALL BE SOIL MATERIAL. ROCK IN SELECT BACKFILL SHALL BE LIMITED TO 2" MAX. DIMENSION.
- 2. SELECT BACKFILL SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY.
- 3. FINISH GRADE TO MATCH EXISTING ELEVATIONS.



CONCRETE/ASPHALT/ROCK DRIVEWAY BORE DETAIL

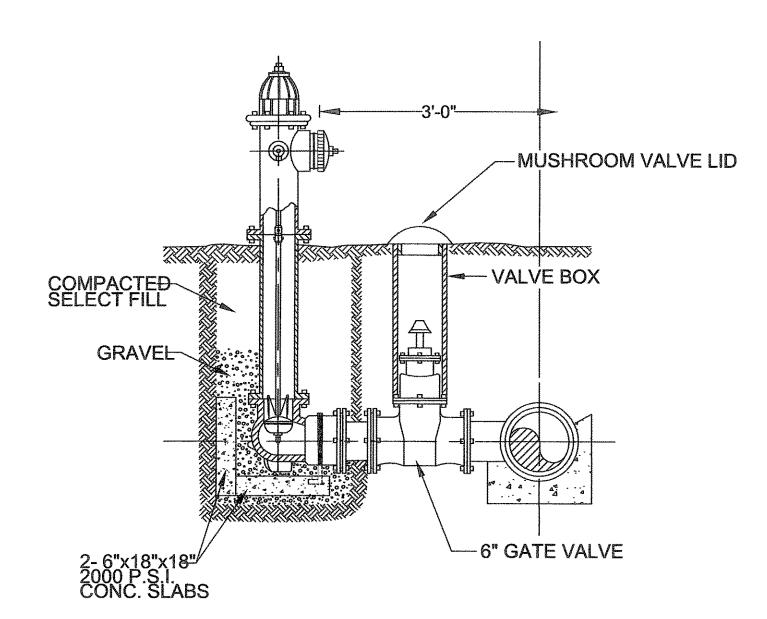
NOT TO SCALE

GENERAL NOTES:

- 1. ALL WATER LINE PIPE SHALL BE C-900 PVC. SAND EMBEDMENT IS REQUIRED.
- 2. ALL WATER LINES SHALL BE BURIED WITH 48" COVER. (INCLUDING PIPES LAID IN DITCHES.)
- 3. ALL VALVES AND FITTINGS WILL BE PROPERLY BLOCKED AND RESTRAINED WITH MEGALUGS AND RETAINER GLANDS INSTALLED ON ALL FITTINGS.
- 4. CONTRACTOR SHALL FIELD VERIFY THE LOACTION AND SIZE FOR ALL WATER LINES, THE LOCATION OF ALL ELECTRICAL UTILITY LINES, AND THE PRESENCE AND LOCTION OF ALL OTHER EXISTING UTILITIES IN THE AREA.
- 5. ALL FITTINGS ARE TO BE CAST IRON OR DUCTILE IRON.
- 6. CONTRACTOR SHALL FINISH GRADE TRENCH LINE TO MATCH EXISTING TERRAIN UPON PROPER SETTLEMENT.
- 7. NO COVERING OF LINES ALLOWED UNTIL INSPECTED BY BLACKLAND WSC'S APPOINTED REPRESENTATIVE.
- 8. ALL RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS AS REQUIRED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) MUST BE MET.
- 9. ALL DRIVES SHALL BE BORED
- 10. STEEL CASING MUST BE INSTALLED UNDER ALL STATE AND COUNTY ROADS.
 A ROAD BORE PERMIT MUST BE DISPLAYED AND AVAILABLE FOR INSPECTION IF APPLICABLE.

NOTES:

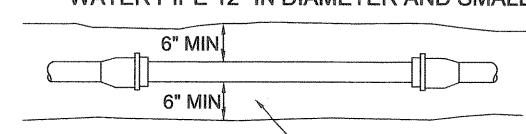
 KEEP DRAIN HOLE UNCLOGGED
 HYDRANT SHALL BE MANUFACTURED BY THE MUELLER CO. OR AN APPROVED EQUAL.



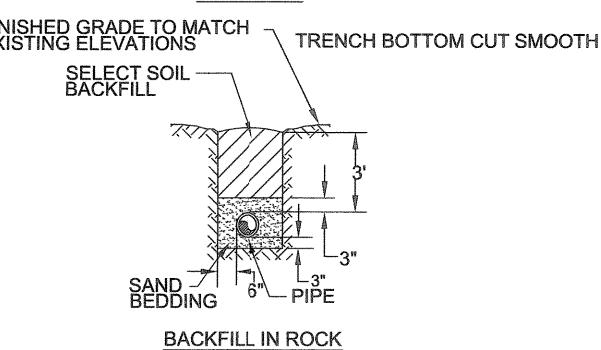
FIRE HYDRANT WITH AUXILIARY VALVE DETAIL NOT TO SCALE

GENERAL NOTES:

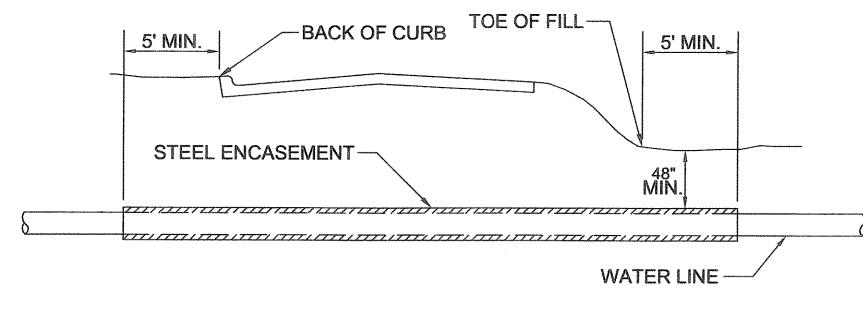
- 1. SELECT BACKFILL SHALL BE SOIL MATERIAL. ROCK IN SELECT BACKFILL SHALL BE LIMITED TO 2" MAX. DIMENSION.
- 2. ABOVE DETAILS SHALL APPLY TO ALL PVC WATER PIPE 12" IN DIAMETER AND SMALLER.

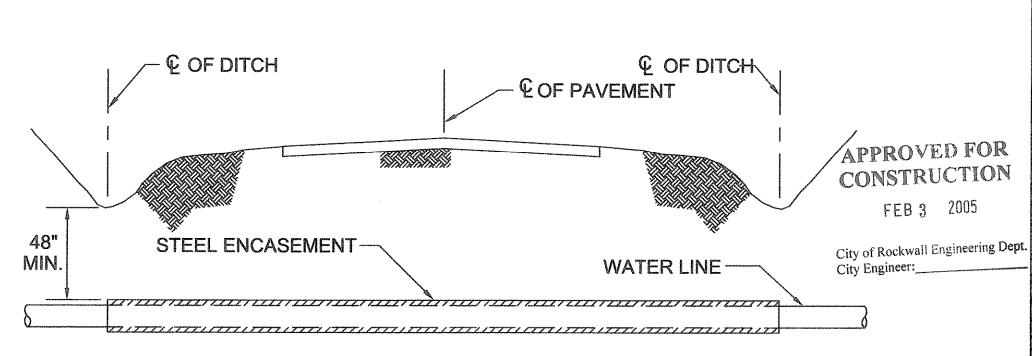


PLAN VIEW



LAYING DETAILS FOR PVC WATER PIPE NOT TO SCALE





ROAD BORE & ENCASEMENT DETAILS
NOT TO SCALE

FM 549 NORTH EXTENSION
WATERLINE IMPROVEMENT PLAN
FOR
BLACKLAND WATER SUPPLY CORPORATION
ROCKWALL COUNTY, TEXAS

BROWN SULTANTS/PL

DANIEL ENGINEERS/

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