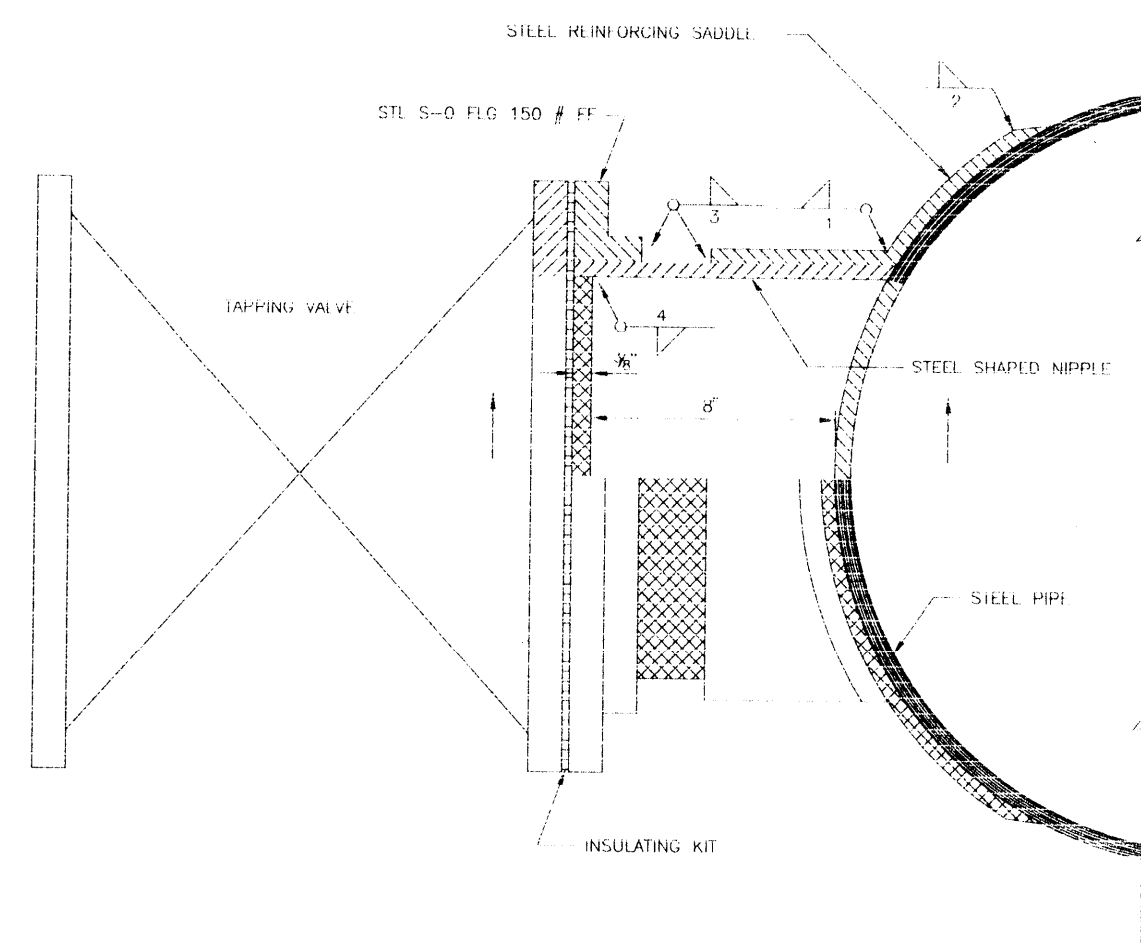
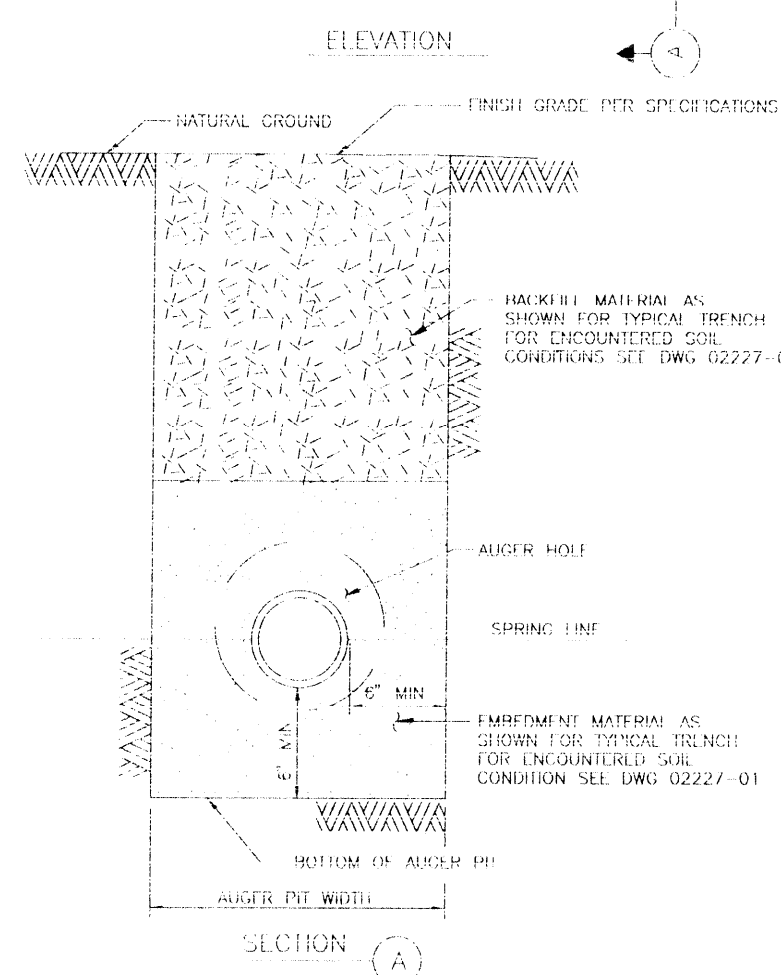
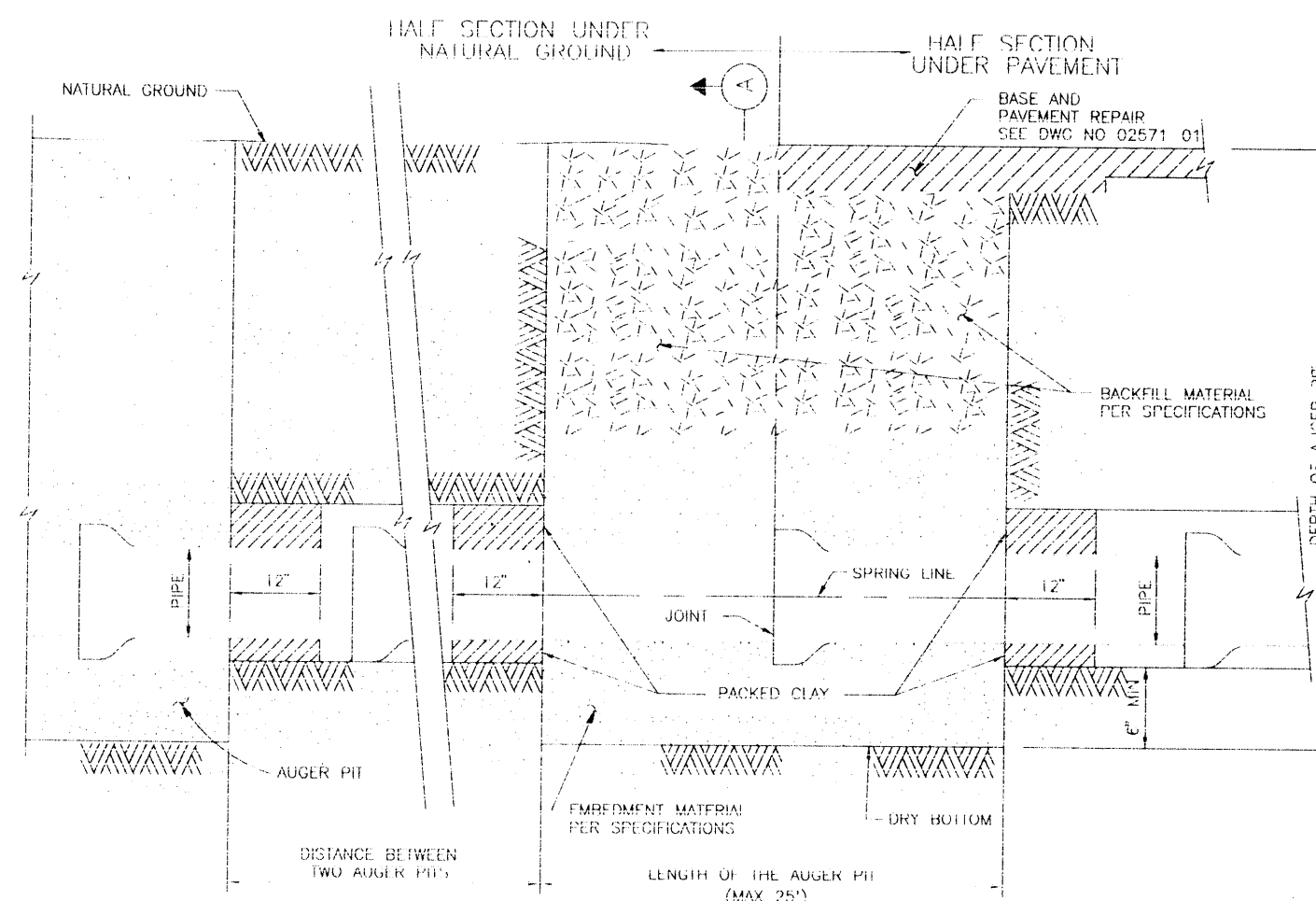


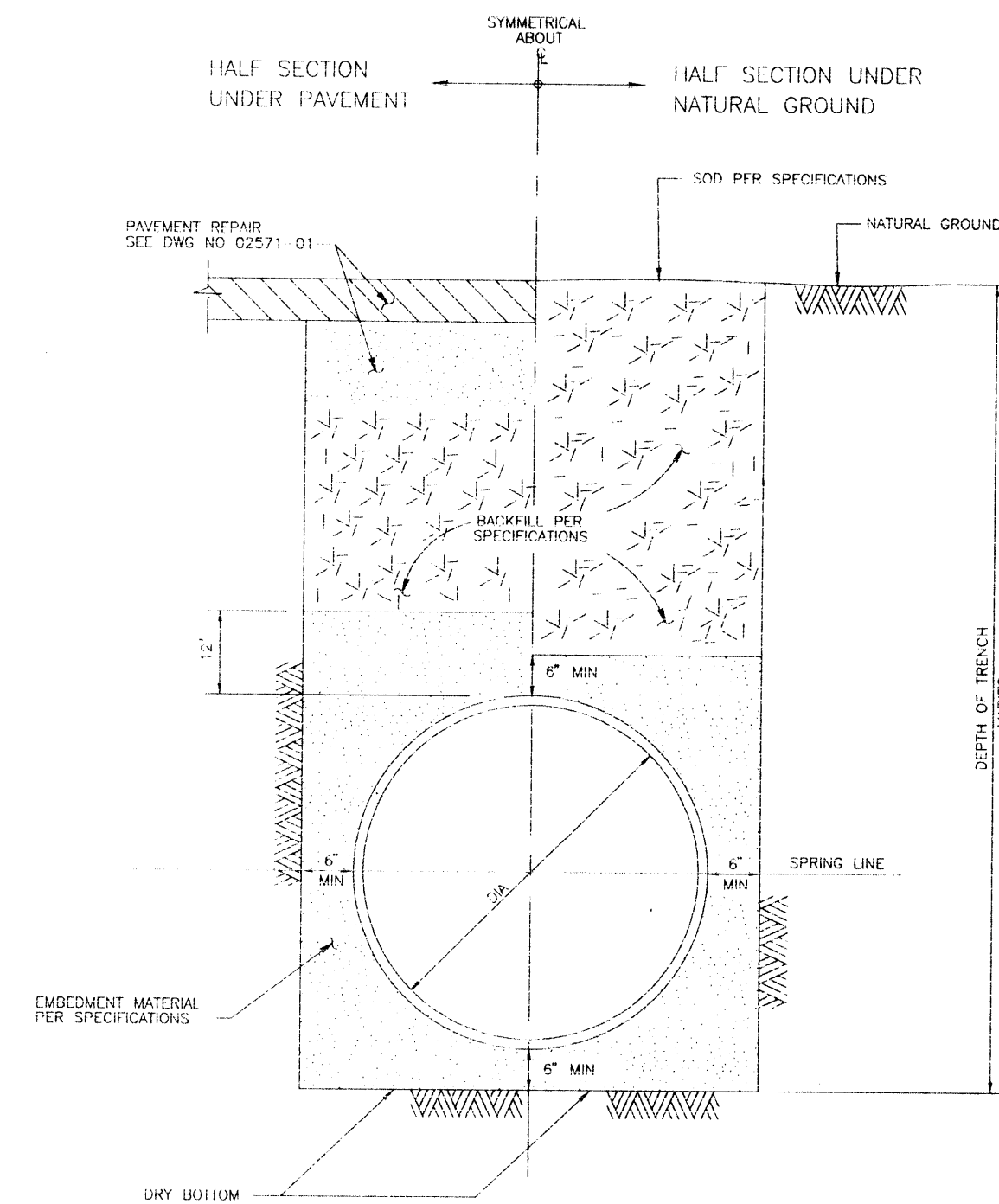
- NOTES:
1. SHAPED NIPPLE SHALL BE SHAPED TO THE AXES OF THE PIPE TO A TOLERANCE OF .010" AND SHALL BE SHAPED TO FIT THE O.D. OF THE STEEL PIPE.
  2. WELDING SEQUENCE SHALL BE AS NOTED IN WELD SYMBOLS.
  3. WELDS SHALL USE GAUZE IN ASSURING THAT 100% OF 3-D FLOWS CORRECTLY LINED UP AND SECURELY TACKED PRIOR TO STARTING WELD.
  4. INSULATING KIT SHALL BE IN ACCORDANCE WITH WATER MAIN STANDARD SPECIFICATIONS.



STANDARD TAP  
TO  
STEEL MAIN  
(NOT TO SCALE)  
02665-04B

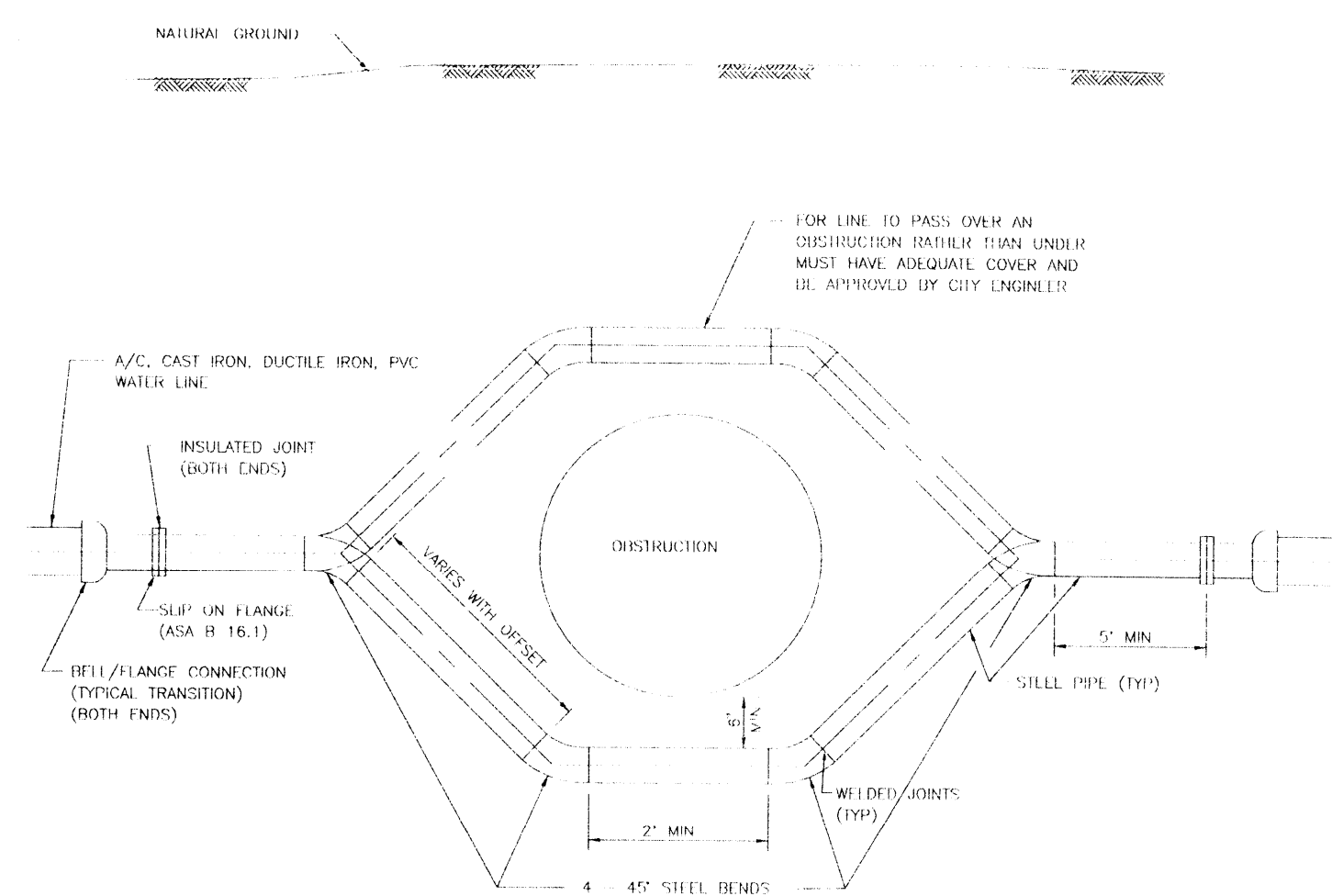


BEDDING AND BACKFILL  
AUGER PIT AND AUGER HOLE  
(NOT TO SCALE)  
02316-01C



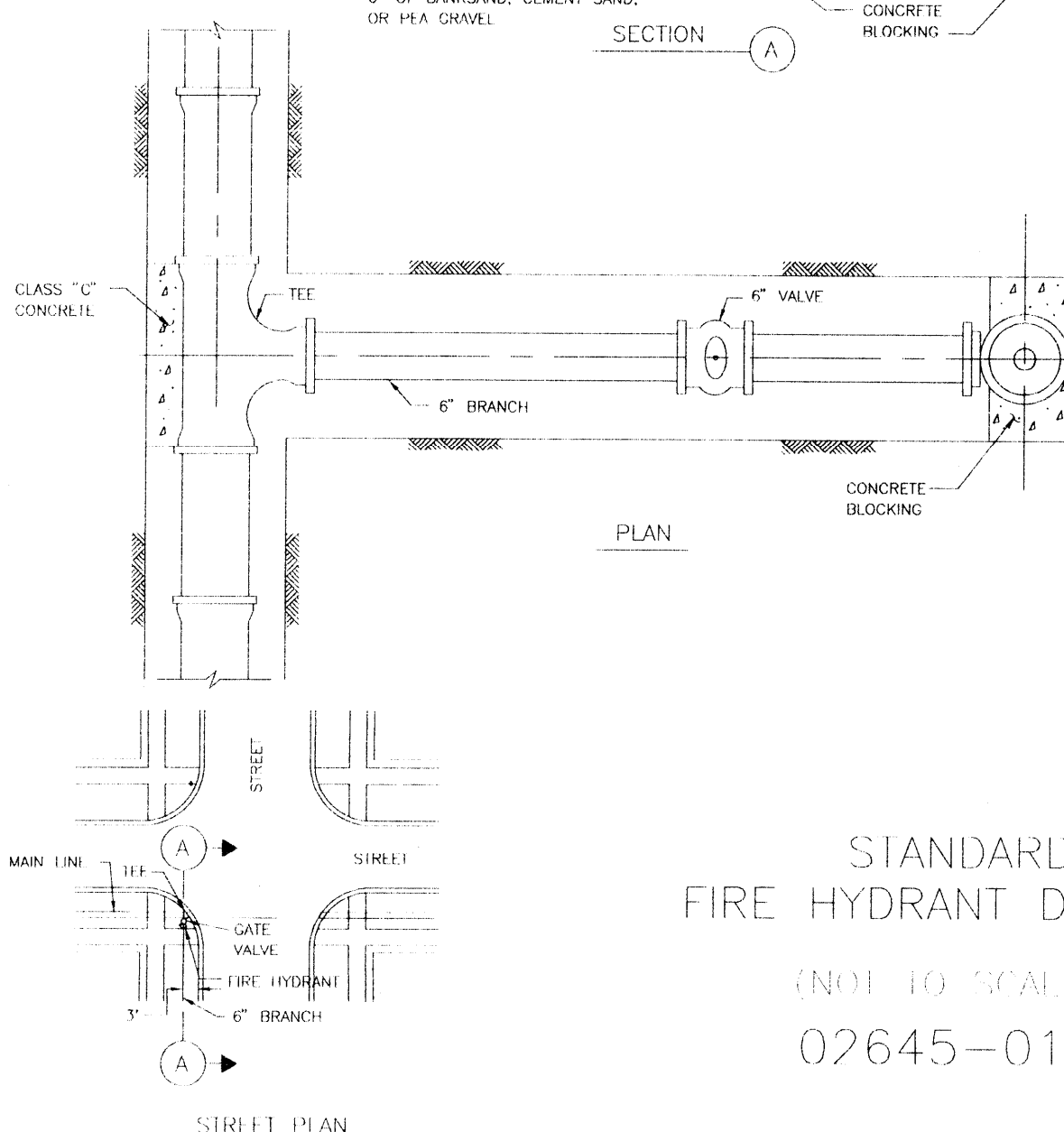
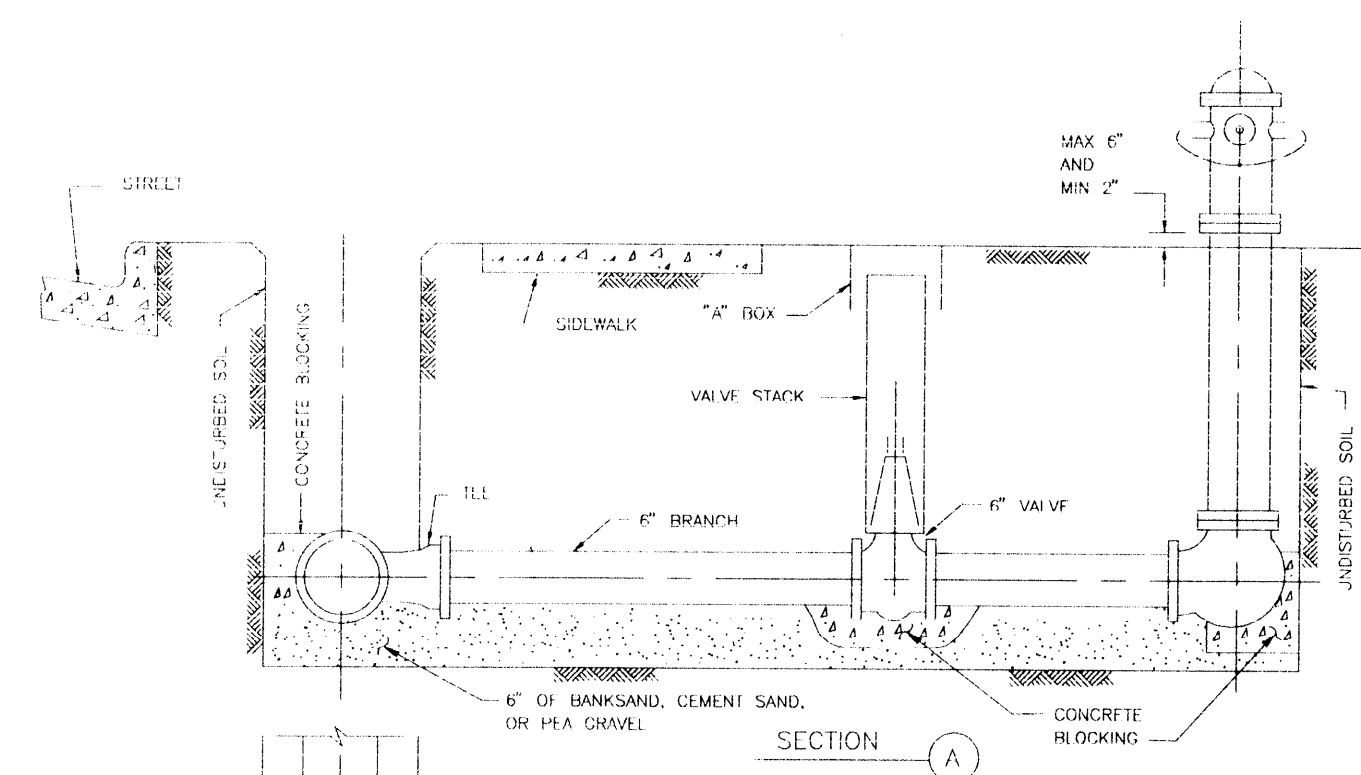
WATER DISTRIBUTION MAIN  
BEDDING AND BACKFILL FOR  
OPEN CUT TRENCHES  
(NOT TO SCALE)  
02664-01C

- NOTE:
1. ALL METHODS AND DIMENSIONS TO BE IN ACCORDANCE WITH WATER MAIN STANDARD SPECIFICATIONS.
  2. RESTRAIN EXISTING PIPING BEYOND STEEL SECTION AS REQUIRED TO PREVENT MOVEMENT.

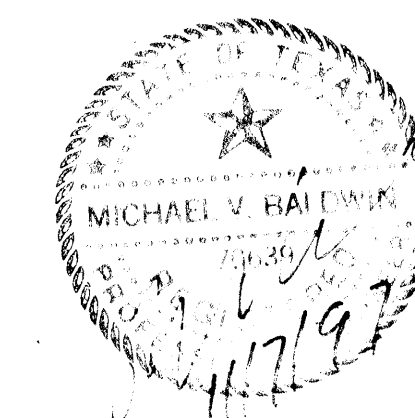


- TYPICAL STEEL SECTION FITTINGS
- 4 - 6"x45° STEEL BENDS
  - 2 - 6" BELL-FLANGE ADAPTERS
  - 2 - 6" SLIP-ON FLANGES 150 #
  - 2 - 6" INSULATED JOINT KITS

TYPICAL STEEL PIPE OFFSET  
SECTION FOR WATER MAINS  
(NOT TO SCALE)  
02611-02A



STANDARD  
FIRE HYDRANT DETAIL  
(NOT TO SCALE)  
02645-01B



CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS & ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE GROUP	
SECTION APPROVALS:	
<i>[Signature]</i> 12/4/97 WATER ENGINEERING	TRAFFIC AND SIGNAL ENGINEERING
<i>[Signature]</i> 1-9-98 WASTEWATER ENGINEERING	STREET & BRIDGE ENGINEERING
<i>[Signature]</i> 12/22/97 STORM SEWER ENGINEERING	CONSTRUCTION

OTHER DEPARTMENTS	
PLANNING AND DEVELOPMENT	SPONSOR DEPARTMENT
<i>[Signature]</i> CITY ENGINEER	1/15/98 DATE
<i>[Signature]</i> DIRECTOR OF PUBLIC WORKS AND ENGINEERING	1-16-98 DATE
SUBMITTED:	DESIGNED BY: IIM
SCALE: N/A	DRAWN BY: TIM
DATE: AUGUST 1997	SHEET NO. 22 OF 27 SHEETS
SURVEY BY:	CITY DWG. NO:
F B NO:	

WATER DETAILS