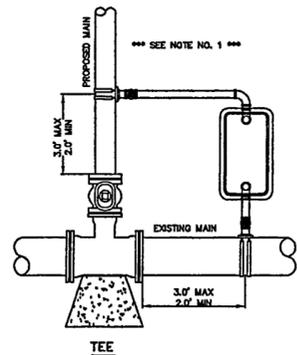
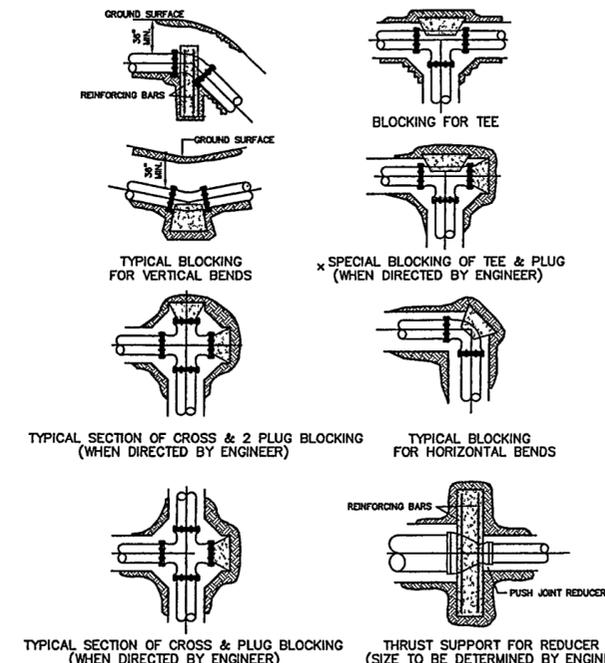


1 TURBINE METER SET FOR 27' METER BOX  
N.T.S.

- NOTES:
1. FULL SIZE CONNECTIONS WILL BE ALLOWED ONLY WITH WRITTEN APPROVAL OF C.A.W. THESE CONNECTIONS SHALL HAVE A VALVE BOX TO ACCEPT TIES TO EXISTING FACILITIES. LOCKING LID VALVES SHALL BE OPERATED BY C.A.W. PERSONNEL. ALL OTHER CONNECTIONS TO EXISTING FACILITIES SHALL CONTAIN A CHECK VALVE.
  2. 2" FILL CONNECTIONS AND BLOWOFFS ARE REQUIRED ON ALL MAINS 6" AND LARGER, EXCEPT 6" MAINS LESS THAN 250 LF WITH NO FIRE HYDRANT.
  3. AFTER APPROVAL OF SAMPLES, CLOSE CURB STOPS AND REMOVE FILL ASSEMBLY (1" CONNECTION). FOR 2" PERMANENT CONNECTIONS, CLOSE 2" VALVES, REMOVE FILL ASSEMBLY AND PLUG COUPLINGS. TEMPORARY CONNECTIONS, SHALL HAVE ALL PIPING IS REMOVED AT MAIN CONNECTION POINTS, AND 2" VALVES PLUGGED.

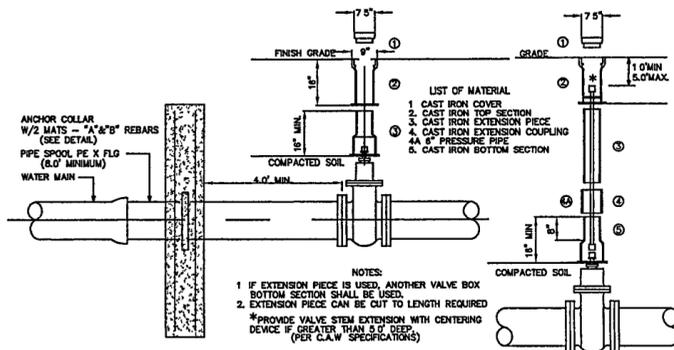


2 1' & 2' FILL CONNECTION DETAILS TYPICAL INSTALLATIONS  
N.T.S.

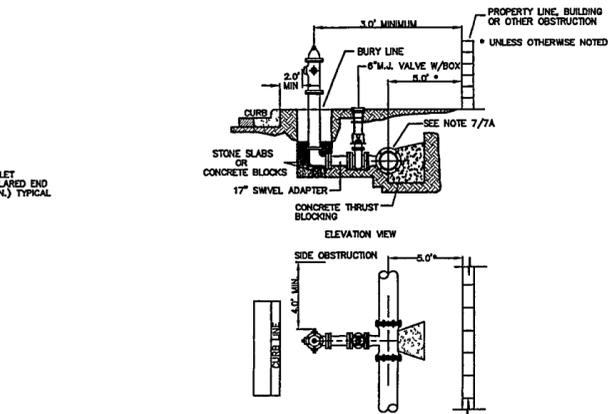


- NOTES ON THRUST BLOCKING
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
  2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A THRUST BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
  3. WEIGHT CALCULATIONS TO BE BASED ON THRUST DUE TO STATIC PRESSURE + BOX OR TEST PRESSURE, WHICHEVER IS GREATER. (THRUST = CAP. ST. 1/2 A WHERE A = AREA OF PIPE, P = WATER PRESSURE.)
  4. WHEN BLOCKING AGAINST PLUG, PLUG SHALL BE COVERED TO PREVENT BONDING OF CONCRETE.
  5. WHERE SHEAR BECOMES A PROBLEM PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
  6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND OBSTRUCTIONS.
  7. CLEARANCE ON PIPES BELONGING TO OIL/GAS COMPANIES SHALL BE 18" UNLESS SPECIAL PERMISSION IS GIVEN BY THESE COMPANIES.

3 THRUST BLOCKING  
N.T.S.

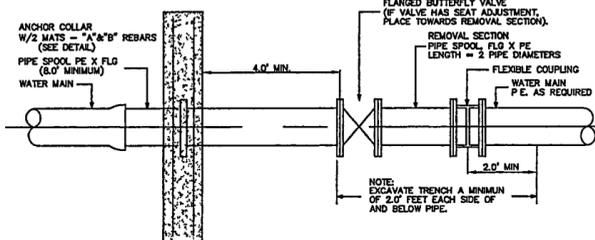


4 GATE VALVE & VALVE BOX INSTALLATION  
N.T.S.

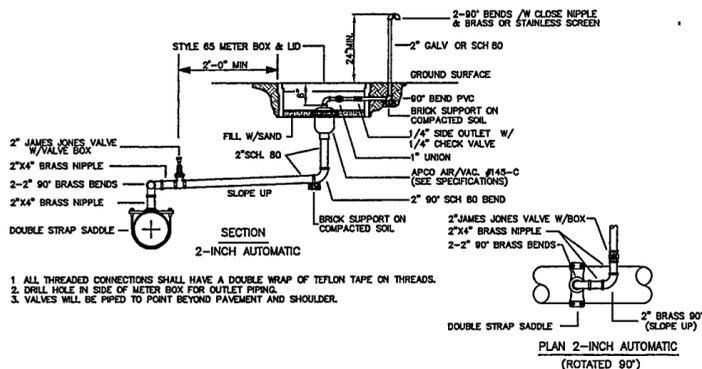


5 STANDARD FIRE HYDRANT INSTALLATION  
USE ANCHOR TEE (UNLESS OTHERWISE NOTED)

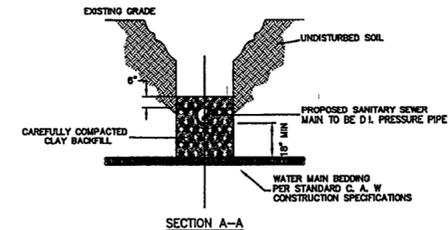
- NOTES:
1. DRAINAGE BED SHALL CONSIST OF CRUSH STONE OR COARSE GRAVEL WITH COARSE SAND. MINIMUM VOLUME OF 8 CU FT DRAIN BED SHALL EXTEND A MINIMUM OF 6' ABOVE DRAIN OUTLET.
  2. USE 1/2" D.I. NIPPLES WITH M.J. RESTRIKER GLANDS IF DISTANCE BETWEEN VALVE AND HYDRANT MUST BE GREATER THAN 17' SWIVEL ADAPTER.
  3. FIRE HYDRANT TO BE BLOCKED AGAINST FIRM SOIL AS SHOWN.
  4. ALL HYDRANTS SHALL BE INSTALLED PLUMB.
  5. LARGE NOZZLE SHALL FACE CURB UNLESS OTHERWISE NOTED. ROTATE BARREL AS REQUIRED.
  6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4.0' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
  7. M.J. ANCHOR TEE, TAPPING SLEEVE OR TAPPING SADDLE MAY BE USED (SEE MATERIAL SPECIFICATIONS) WHEN USING REGULAR M.J. TEE USE 1 1/2" SWIVEL ADAPTER NIPPLE BETWEEN TEE AND VALVE.
  8. HYDRANTS TO BE SET AT DEPTHS GREATER THAN 5.0' SHALL BE SET WITH A MODIFIED FIRE HYDRANT SETTING. (CONTACT C.A.W. ENGINEERING DEPT. FOR DETAILED DRAWING FOR DEEP DEPTH FIRE HYDRANT SETTINGS).
  9. CONTRACTOR RESPONSIBLE FOR SPOOL PIECES TO POSITION HYDRANT ON LOCATION SHOWN ON THE PLANS.



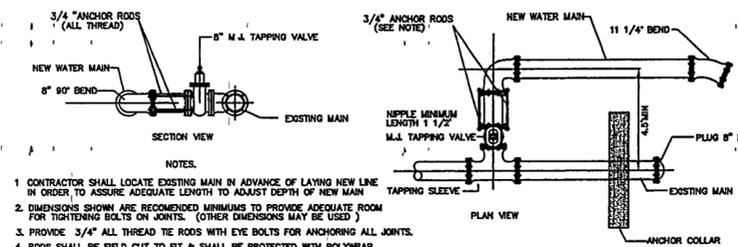
6 TYPICAL BUTTERFLY VALVE INSTALLATION  
IN STRAIGHT RUN OF PIPE  
N.T.S.



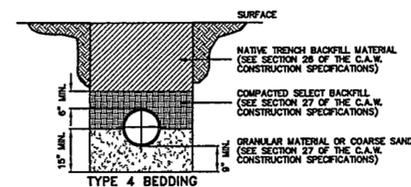
7 2' COMBINATION AIR/VACUUM VALVE DETAIL  
N.T.S.



8 SEWER CROSSING  
N.T.S.



9 CONNECTION TO EXISTING 8' MAIN  
N.T.S.



10 BEDDING & BACKFILL DETAIL  
N.T.S.

WILLIAM J. CLINTON  
PRESIDENTIAL  
CENTER & PARK

LITTLE ROCK, ARKANSAS

Architect

POLSHKE PARTNERSHIP LLP  
320 West 13th Street  
New York, New York 10014  
212 607 7171

Landscape Architect



118 Magazine Street  
Cambridge, Massachusetts 02139  
617 681 0070  
617 651 0064

Coordinating Landscape Architect

LANDSCAPE ARCHITECTURE, INC.  
2300 Cotuit Lane, Suite 202  
Little Rock, Arkansas 72202  
501 374 5610

Civil Engineer

McLELLAND CONSULTING ENGINEERS  
900 W Markham Street  
Little Rock, Arkansas 72201  
501 371 0272

Electrical Engineer

CROMWELL ARCHITECTS ENGINEERS  
101 South Spring Street  
Little Rock, Arkansas 72201  
501 372 2900

Marine + Structural Engineers

MOFFATT & NICHOL ENGINEERS  
1818 East Millbrook Road, Suite 160  
Raleigh, North Carolina 27609  
919 781 4626

Fountain

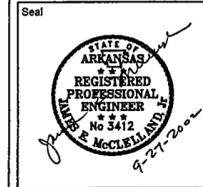
DAN EUSER WATERARCHITECTURE INC  
58 Mackenzie Drive West  
Richmond Hill, Ontario L4C 3S2  
CANADA  
905 884 4175

Playground Design

PLAY SITE ARCHITECTURE  
7 Fairway Road  
Acton, Massachusetts 01720  
978 283 1090

Signage Design

POLLIN + MORRIS  
255 Spring Street, Sixth Floor  
New York, New York 10013  
212 675 1332



CD	100% Site Package 2 CD	09/27/02
04	90% Site Package 2 CD	09/15/02
03	80% Site Package 2 CD	06/29/02
02	100% Design Development	04/01/02
01	100% Site Package 1 CD	02/15/02
	Issue	Date

Job No PPA 9908  
HA CPC0101

Scale AS SHOWN

Date SEPTEMBER 27, 2002

Title SITE PACKAGE 2  
100% CONSTRUCTION DOCUMENTS  
SITE UTILITY DETAILS

Sheet No

C307

FOR OFFICIAL USE ONLY