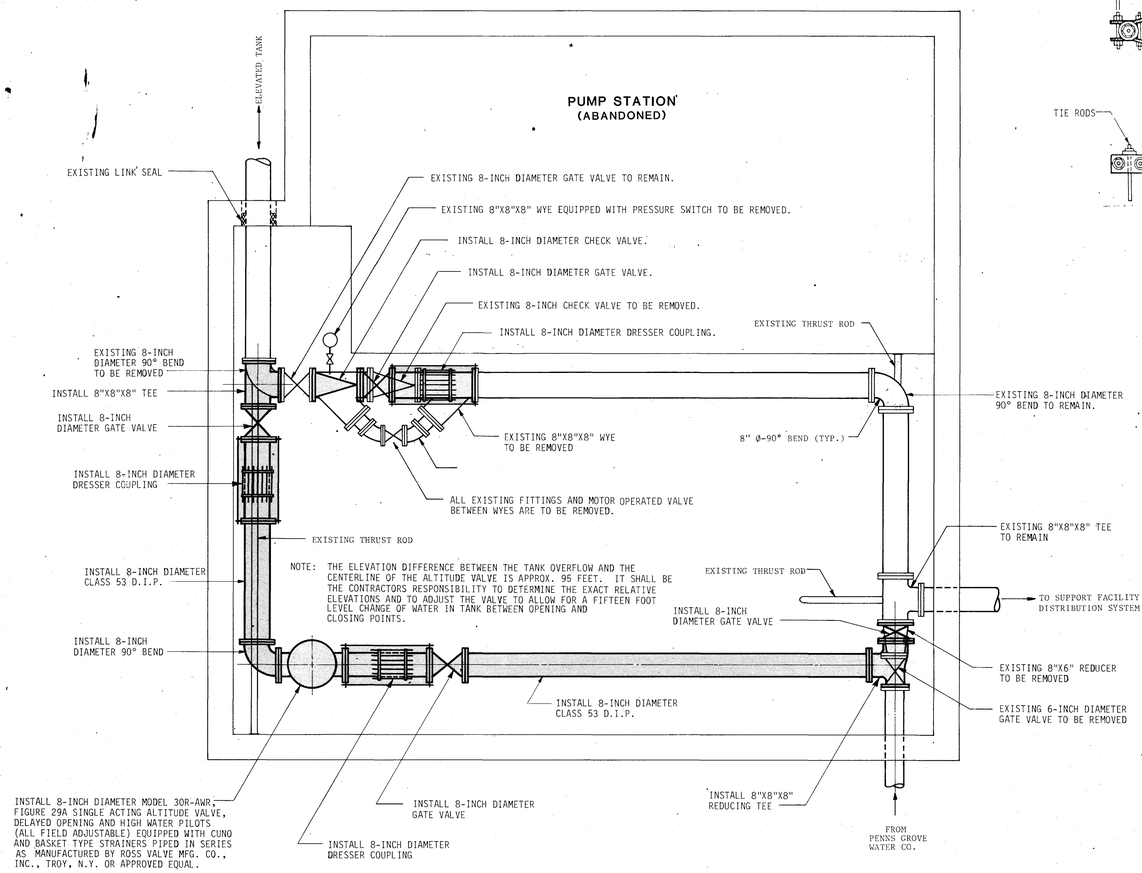
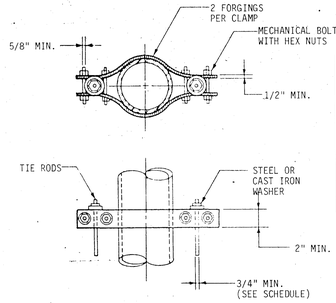


PIPING AND VALVE MODIFICATIONS DETAIL

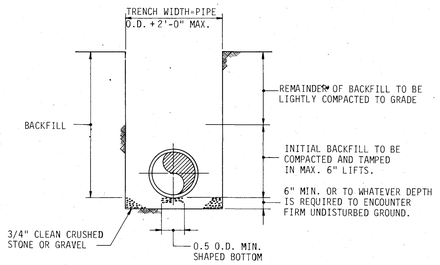


CLAMP DETAIL

SCHEDULE OF TIE RODS		
PIPE DIAMETER	STEEL RESTRAINING RODS REQ'D.	
	NO.	DIAMETER
6"	2	3/4"
8"	2	7/8"
10"	4	3/4"
12"	4	7/8"

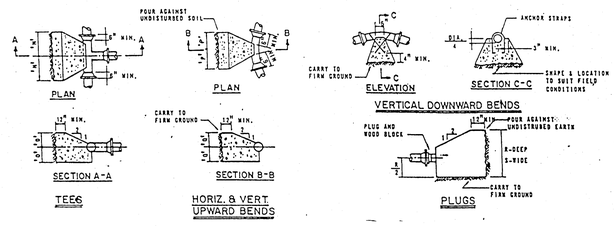
NOTE:
ALL BOLTS, STRAPPING, AND TIE RODS SHALL BE COATED WITH 2 COATS BITUMASTIC PAINT.

TYPICAL STRAPPING DETAIL FOR BURIED PIPE



SECTIONAL ELEVATION OF MINIMUM STANDARD PIPE BEDDING

NOT TO SCALE



THRUST BLOCKS FOR TEES, HORIZONTAL & VERTICAL BENDS & PLUGS								
DESCRIPTION	DIMENSION	4" Ø	6" Ø	8" Ø	10" Ø	12" Ø	14" Ø	24" Ø
HORIZ. & VERT. UPWARD: TEES	N	0'-7"	0'-10"	1'-2"	1'-5"	1'-8"	1'-11"	3'-2"
	O	0'-7"	0'-10"	1'-2"	1'-5"	1'-8"	1'-11"	3'-2"
90° BENDS	P	0'-9"	1'-0"	1'-4"	1'-8"	1'-11"	2'-3"	3'-9"
	Q	0'-9"	1'-0"	1'-4"	1'-8"	1'-11"	2'-3"	3'-9"
45° BENDS	P	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	2'-9"
	Q	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	2'-9"
22 1/2° BENDS	P	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	2'-0"
	Q	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	2'-0"
11 1/4° BENDS	P	0'-4"	0'-5"	0'-6"	0'-8"	0'-9"	0'-10"	1'-5"
	Q	0'-4"	0'-5"	0'-5"	0'-8"	0'-9"	0'-10"	1'-5"
VERT. DOWNWARD: 45° BENDS	MIN. CONC.* ANCHORAGE	.6 C.Y.	1.1 C.Y.	1.9 C.Y.	2.8 C.Y.	3.9 C.Y.	5.2 C.Y.	14.9 C.Y.
22 1/2° BENDS	MIN. CONC.* ANCHORAGE	.3 C.Y.	.6 C.Y.	1.0 C.Y.	1.4 C.Y.	2.0 C.Y.	2.7 C.Y.	7.6 C.Y.
11 1/4° BENDS	MIN. CONC.* ANCHORAGE	.2 .C.Y	.3 C.Y.	.5 C.Y.	.7 C.Y.	1.0 C.Y.	1.4 C.Y.	3.8 C.Y.
PLUGS	R	1'-2"	1'-8"	2'-4"	2'-10"	3'-4"	3'-10"	6'-4"
	S	1'-2"	1'-8"	2'-4"	2'-10"	3'-4"	3'-10"	6'-4"

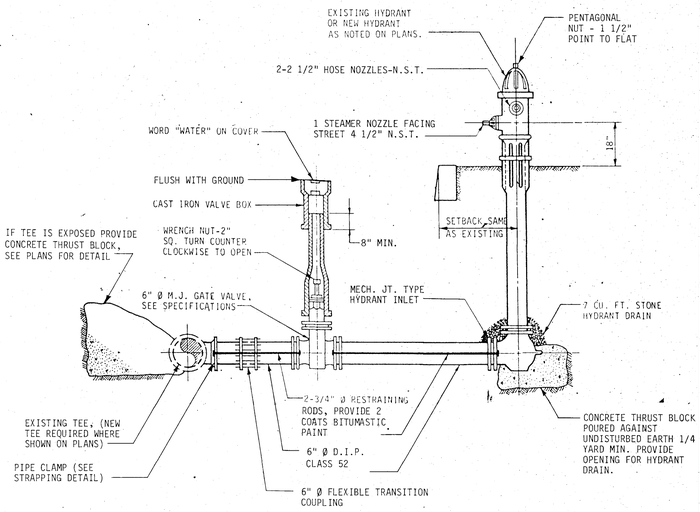
THRUST BLOCKS DESIGNED FOR 150 LB. PER SQ. IN. TEST PRESSURE & 2,000 LB. PER SQ. FT. SOIL PRESSURE.

* MIN. CONC. ANCHORAGE WITHOUT BACKFILL AND NO GROUND WATER CONDITION.

ANCHOR SCHEDULE FOR VERT. DOWNWARD BENDS	
SIZE	STRAP SIZE
4" Ø	#3 BAR
6" Ø	#4 BAR
8" Ø	#5 BAR
10" Ø	#6 BAR
12" Ø	#7 BAR
14" Ø	#8 BAR
24" Ø	3"X1/2" - FLAT

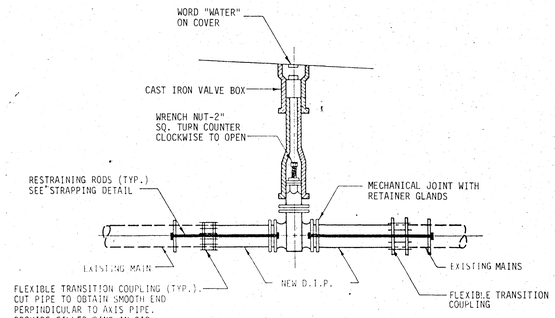
THRUST BLOCK DETAILS

NOT TO SCALE



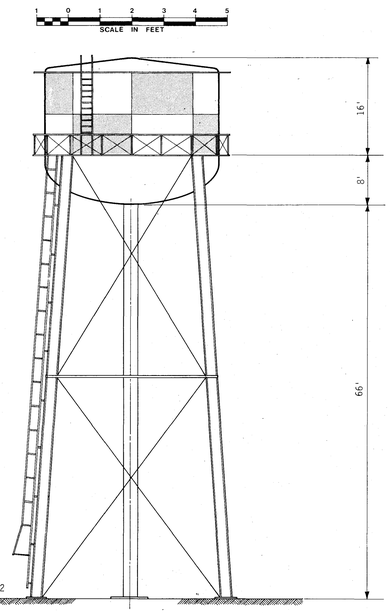
FIRE HYDRANT REPLACEMENT DETAIL

NOT TO SCALE



GATE VALVE REPLACEMENT DETAIL

NOT TO SCALE



TANK DESCRIPTION

66' TO BELLY.
74' TO PLATFORM
30" DIAMETER WATER RISER
UPPER LADDER (UNSAFE).
16' HIGH BARREL
CONE ROOF WITH 2' OVERHANG
22" WALKWAY
42" HIGH RAIL
TANK DIAMETER = 22.66'
CAPACITY = 100,000 GALLONS
TANK SUPPORTS CONSIST OF CHANNEL SECTIONS WITH DIAGONAL CONNECTION PLATES.

CONSTRUCTION NOTES:

1. TANK TO BE PREPARED AND PAINTED AS SPECIFIED IN ACCORDANCE WITH AWWA D102.
2. TANK TO BE DEWATERED BY CONTRACTOR. SEE PLAN FOR LOCATION OF NEW HYDRANT TO FACILITATE TANK DEWATERING.
3. CONTRACTOR TO PROVIDE ALL NECESSARY SAFETY PRECAUTIONS FOR CONSTRUCTION AND INSPECTION.
4. UPPER LADDER TO BE REFASTENED TO TANK WITH STAINLESS STEEL BOLTS.
5. ALL OUTSIDE PAINT SHALL BE REMOVED AND THE SURFACES CLEANED BY SSPC-SP6 "COMMERCIAL BLAST CLEANING".
6. ALL INSIDE PAINT SHALL BE REMOVED AND THE SURFACES CLEANED BY SSPC-SP10 "NEAR WHITE BLAST CLEANING".
7. THE PAINT SYSTEM APPLIED TO THE INSIDE OF THE TANK SHALL BE AN AWWA D102 INSIDE PAINT SYSTEM NO.1, SYSTEM DESIGNATION I-1-W, WHITE.
8. THE PAINT SYSTEM APPLIED TO THE OUTSIDE OF THE TANK SHALL BE AN AWWA D102 OUTSIDE PAINT SYSTEM NO.4, SYSTEM DESIGNATION O-4-C, CHECKERBOARD (INTERNATIONAL ORANGE AND WHITE).

EXISTING WATER STORAGE TANK ELEVATION

NOT TO SCALE

NJ013_0140

SYMBOL	DESCRIPTON	DATE	APPROVED
	REVISIONS		

Elson T. Killam Associates, Inc.
Environmental and Hydraulic Engineers
27 Bleeker Street Millburn, New Jersey 07041

UNITED STATES ARMY TRAINING CENTER AND FORT DIX
DIRECTORATE OF ENGINEERING AND HOUSING
FORT DIX, NEW JERSEY 08640

DRAWN E.T.
DESIGNED I.P.H.
CHECKED J.G.C.
FP&P DIV
B&G DIV
UTL DIV
USING AGENCY

FACILITY NO.

PEDRICKTOWN ARMY SUPPORT FACILITY WATER SYSTEM IMPOVEMENTS

PEDRICKTOWN, NEW JERSEY

CONSTRUCTION DETAILS

RECOMMENDED
Chief Engineering, Plans and Services
APPROVED
Director of Engineering & Housing

SCALE AS NOTED
DATE 6/6/86
PR NR. GM 14 84

DRAWING NUMBER 84-14-02

SHEET 2 OF 2