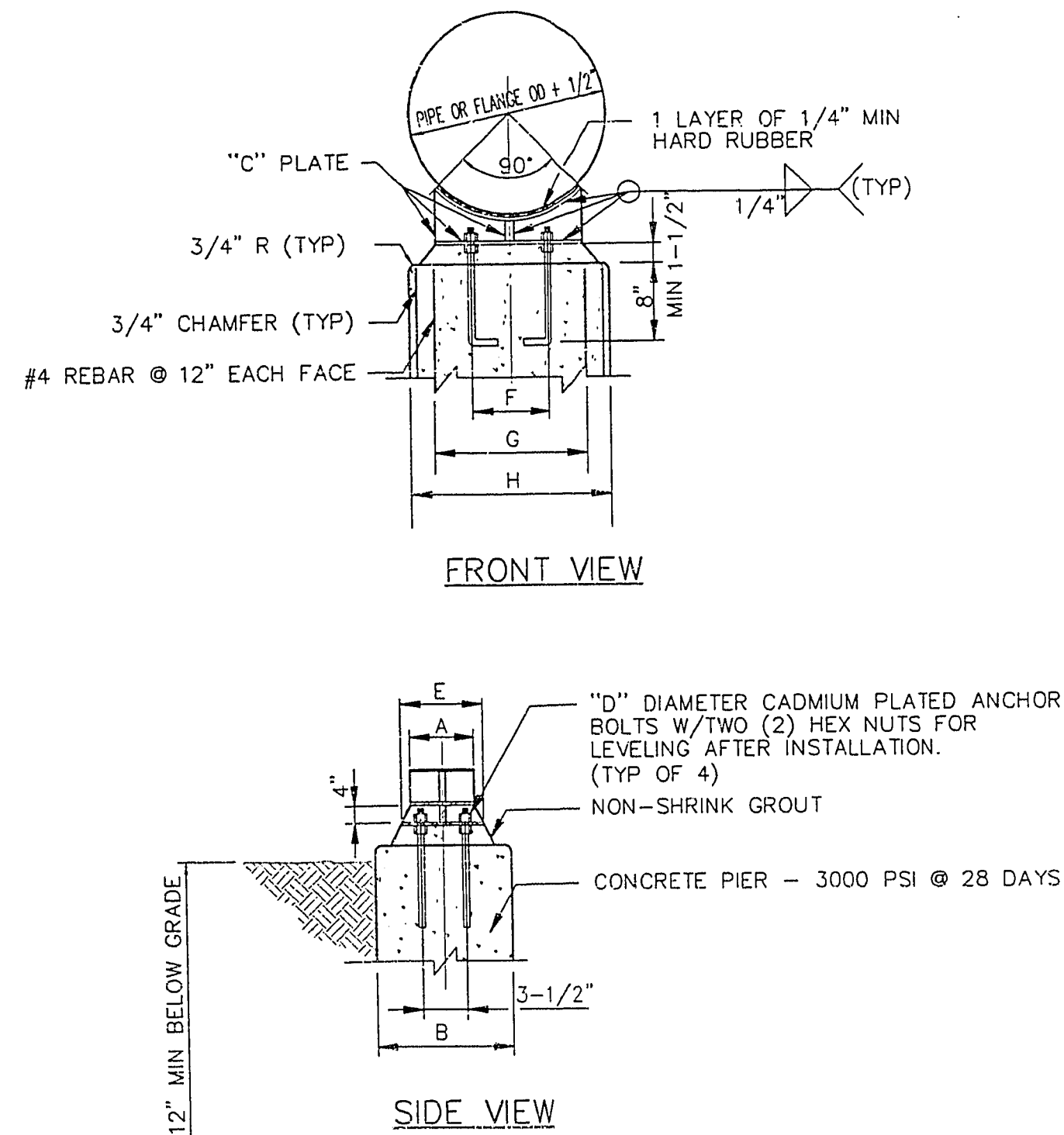


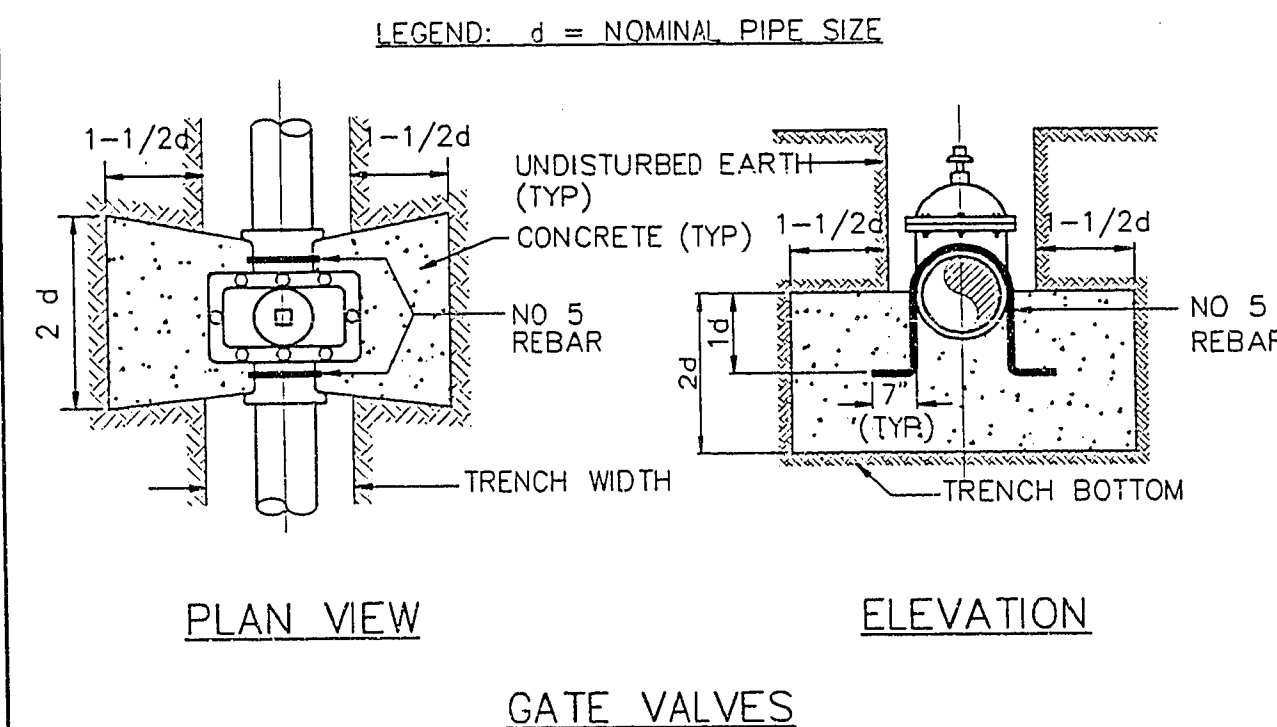
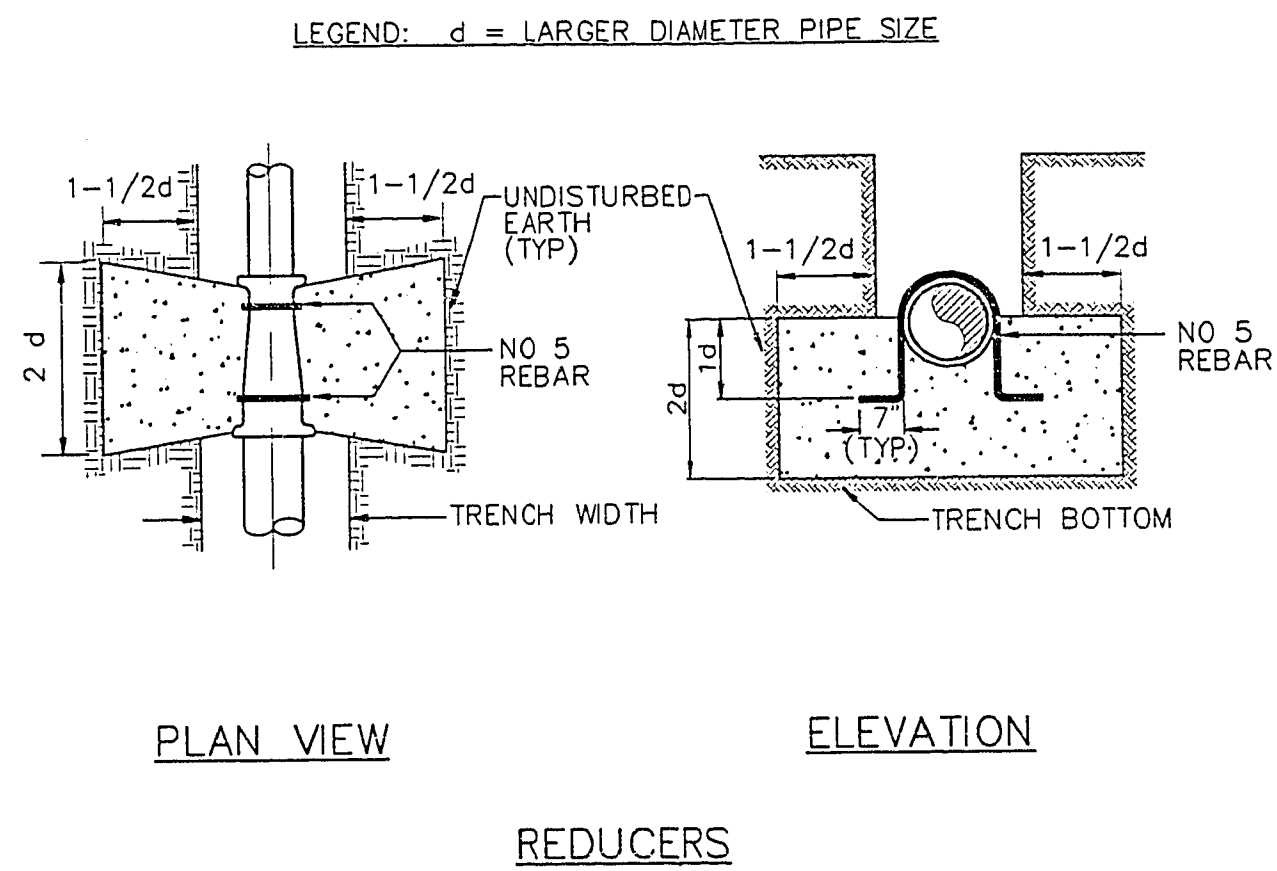


- NOTES:
1. GALVANIZED ASSEMBLY AFTER FABRICATION
 2. PIPE SUPPORTS TO BE LOCATED IN PIPING PLAN
 3. FOR DIMENSIONS SEE TABLE BELOW

NOMINAL PIPE SIZE	DIMENSIONS IN INCHES					SUPPORTING					
	A	B	C	D	E	PIPE			FLANGE		
6"	4"	12"	3/8"	5/8"	6"	4"	6"	12"	6"	9"	15"
8"	4"	12"	3/8"	5/8"	6"	5"	8"	14"	6"	11"	17"
10"	4"	12"	3/8"	5/8"	6"	6"	9"	15"	7"	13"	19"
12"	4"	12"	3/8"	5/8"	6"	7"	11"	17"	9"	15"	21"
14"	4"	12"	3/8"	5/8"	6"	8"	12"	18"	9"	16"	22"
16"	4"	12"	3/8"	5/8"	6"	9"	13"	19"	9"	18"	22"

PIPE SUPPORT
NOT TO SCALE

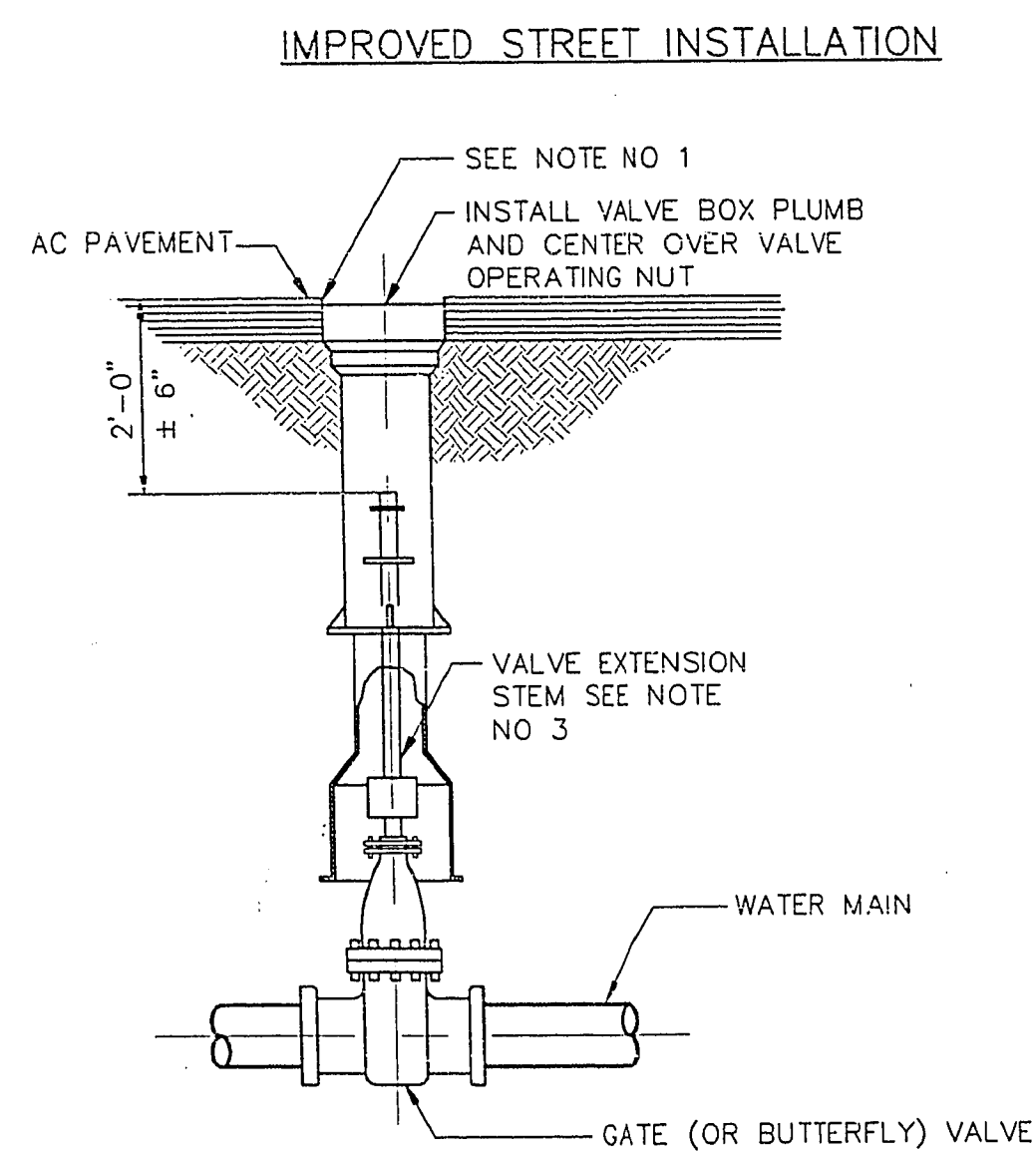
1



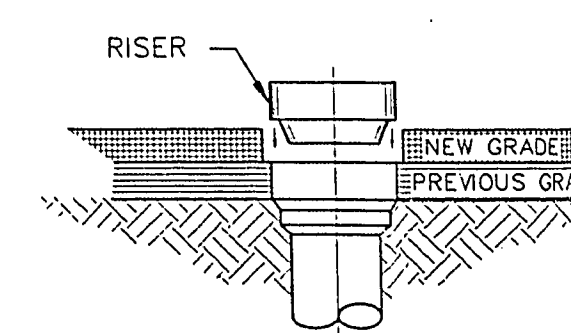
- NOTES:
1. ALL CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAYS STRENGTH
 2. ALL VALVES AND EXPOSED REBAR TO BE COATED AND WRAPPED IN ACCORDANCE WITH SECTION 3, PROTECTIVE COATINGS.

ANCHOR BLOCK
NOT TO SCALE

2



- RAISE TOP SECTION AND/OR INSTALL RISERS AS NECESSARY.

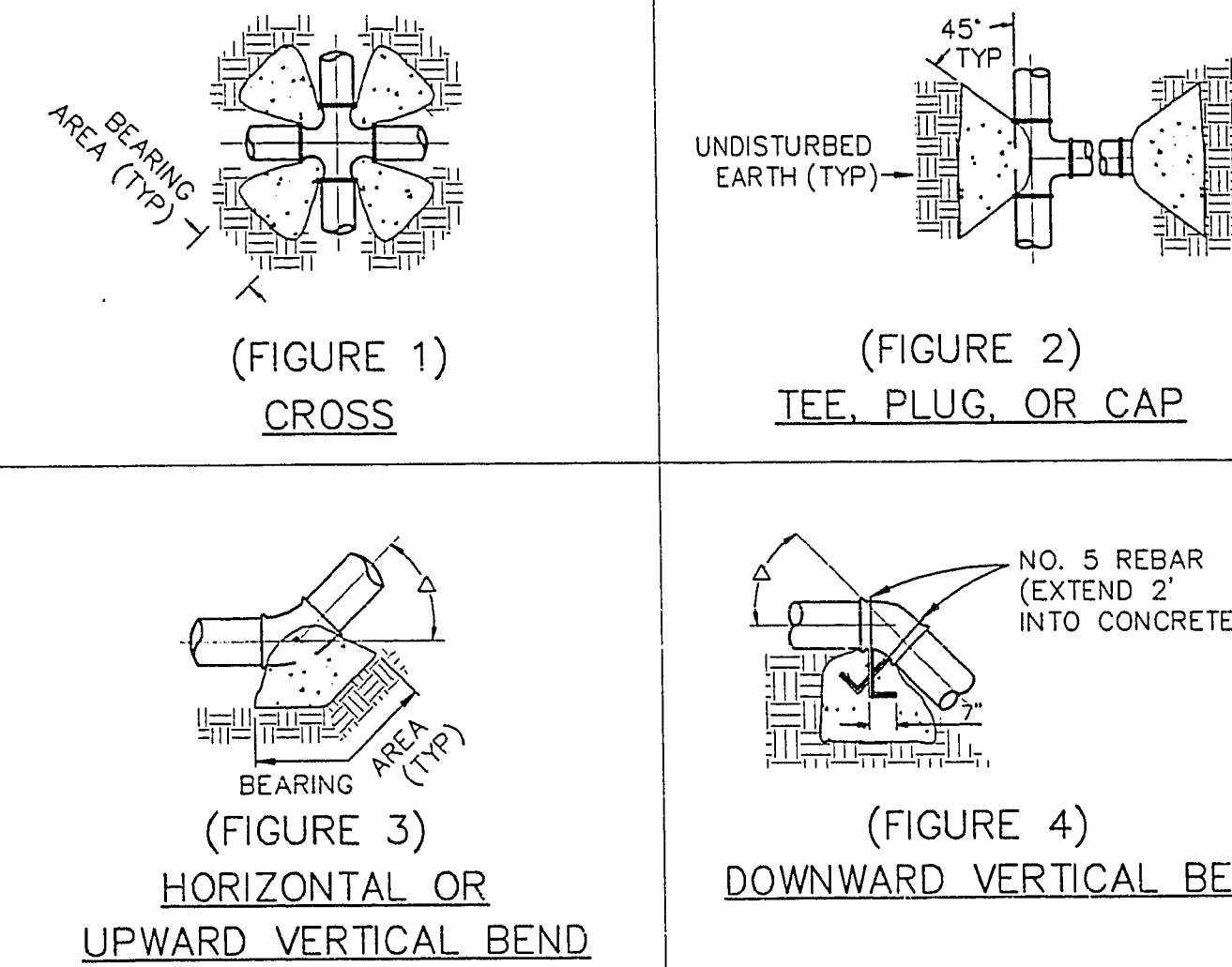


VALVE BOX ADJUSTMENT

- NOTES:
1. FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
 2. MORE STRINGENT INSTALLATION REQUIREMENTS MAY BE IMPOSED BY THE ENTITY HAVING THE JURISDICTION OVER THE VALVE BOX INSTALLATION LOCATION.
 3. A VALVE EXTENSION STEM SHALL BE PROVIDED WHERE THE DEPTH TO THE OPERATING NUT EXCEEDS FIVE (5) FEET.

VALVE BOX INSTALLATION
NOT TO SCALE:

4



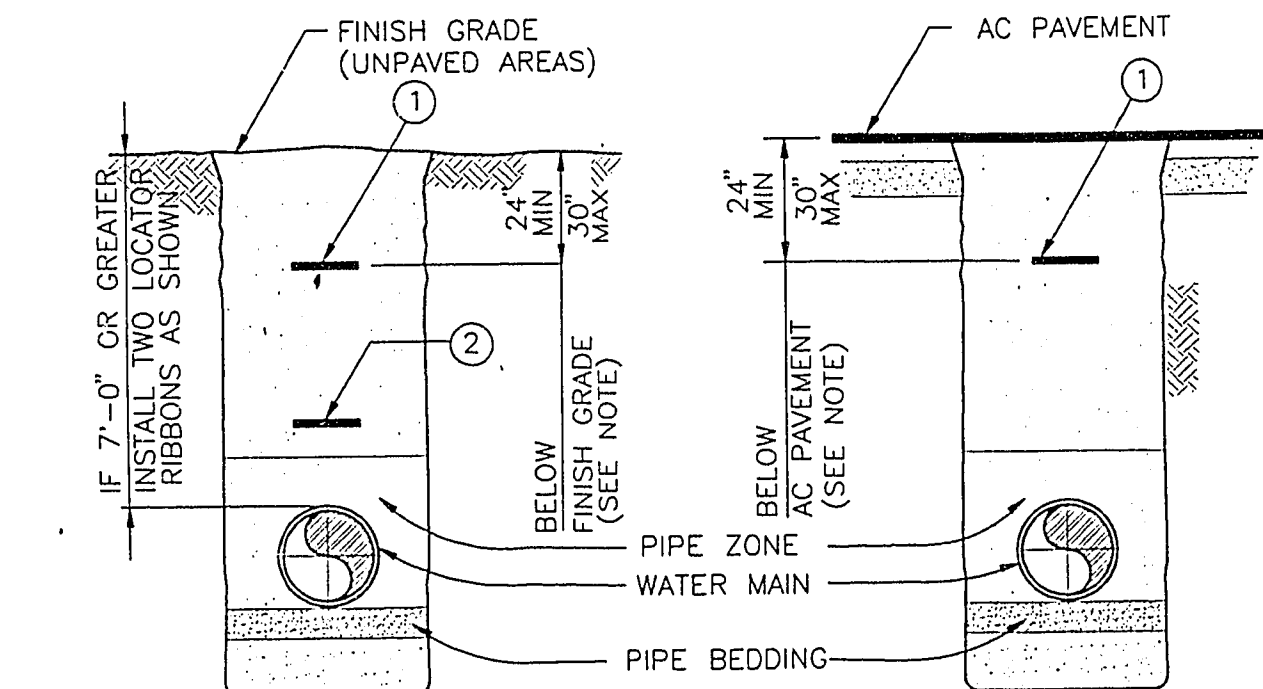
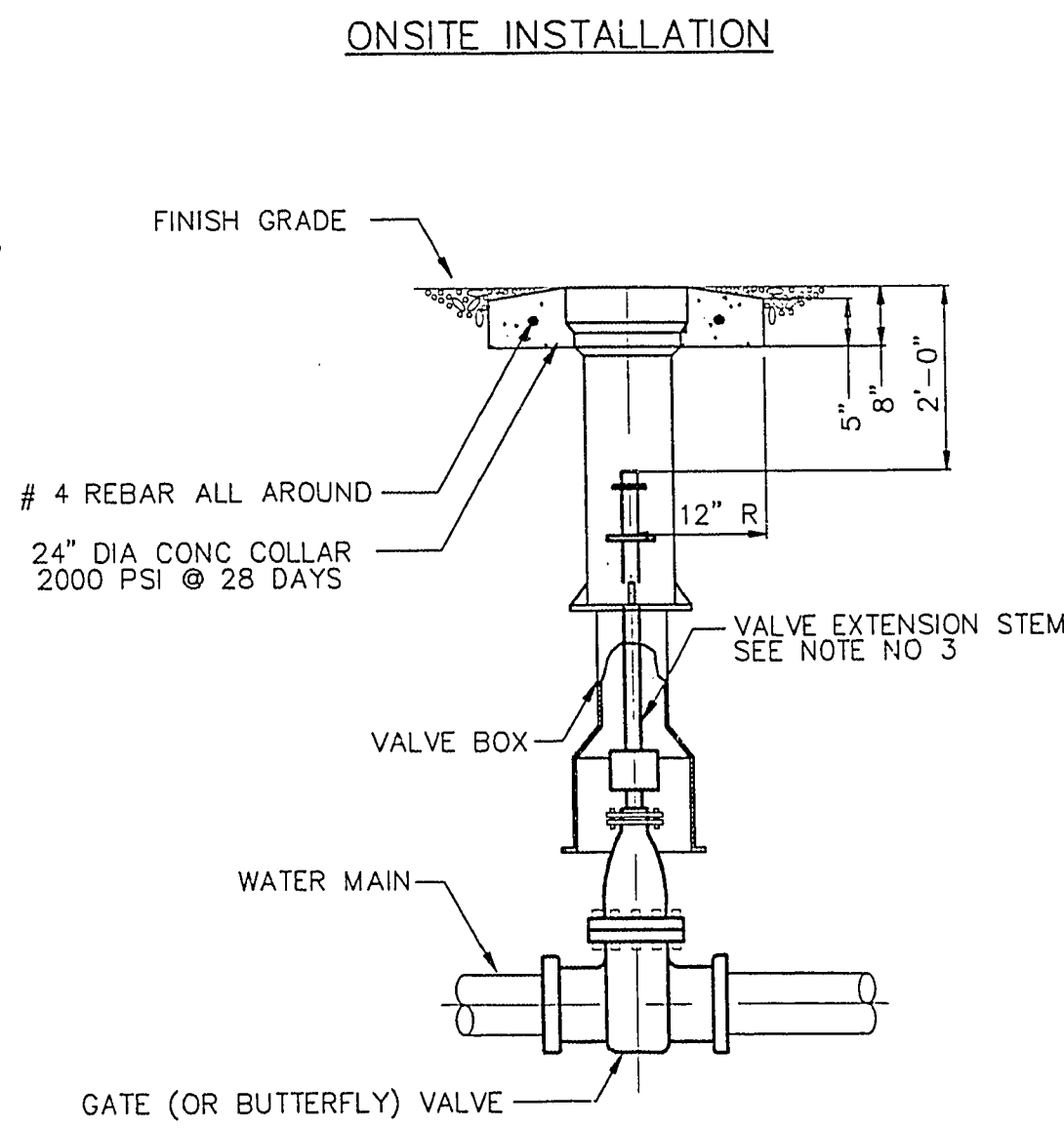
GENERAL NOTES:

COAT AND WRAP ALL METAL SURFACE IN ACCORDANCE WITH SECTION 3, PROTECTIVE COATINGS. ALL CONCRETE SHALL BE 2000 PSI MINIMUM, 28 - DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED IN UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN, BY A NRPE, FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

PIPE ID	BEARING AREA IN SQUARE FEET						CONC/CU YDS		
	FIGURE 1	FIGURE 2	FIGURE 3	FIGURE 4	FIGURE 5	FIGURE 6	FIGURE 1	FIGURE 2	FIGURE 3
4"	1	2	2	1	1	1	1.0	0.5	0.5
6"	2	3	4	2	1	1	1.5	1.0	0.5
8"	3	5	7	4	2	1	2.5	1.5	1.0
10"	4	8	10	6	3	1	4.0	2.5	1.5
12"	5	10	14	8	4	2	5.0	3.0	1.5
16"	10	20	24	12	7	4	8.5	4.5	2.5
18"	12	24	30	16	10	5	11.0	6.0	3.0
20"	14	28	40	20	12	6	14.0	8.0	4.0

THRUST BLOCK
NOT TO SCALE

3



1. PIPE LOCATOR RIBBON - 3" WIDTH
2. PIPE LOCATOR RIBBON - 6" WIDTH

NOTE:
1. CENTER PIPE LOCATOR RIBBON IN TRENCH AND PLACE OVER ENTIRE LENGTH OF ALL TYPES, SIZES AND LOCATIONS OF WATER MAINS

PIPE LOCATOR RIBBON
TYPICAL INSTALLATION
NOT TO SCALE

5

565-275

LAS VEGAS VALLEY WATER DISTRICT

1001 S. VALLEY VIEW BOULEVARD
LAS VEGAS, NEVADA 89153
(702) 870-2011

VERIFY SCALE

BAR REPRESENTS ONE AND ONE HALF INCHES ON ORIGINAL

EQUIP WELL NOS. 116 AND 117

STANDARD DETAILS

DRAWN BY: F.P. AKINS

CHECKED BY: G.E. WALLACE

RECOMMENDED BY:

ACCEPTED BY: JEROME A. STUEBE

DATE: 10/11/95

DATE: 11/15/95

R.P.E. NO. DATE: 10618 3-5-96

CONTRACT NUMBER: 789

DRAWING NUMBER C12

SHEET 12 OF 34

30-15-106

565-275

138-15-NE, 138-15-NW