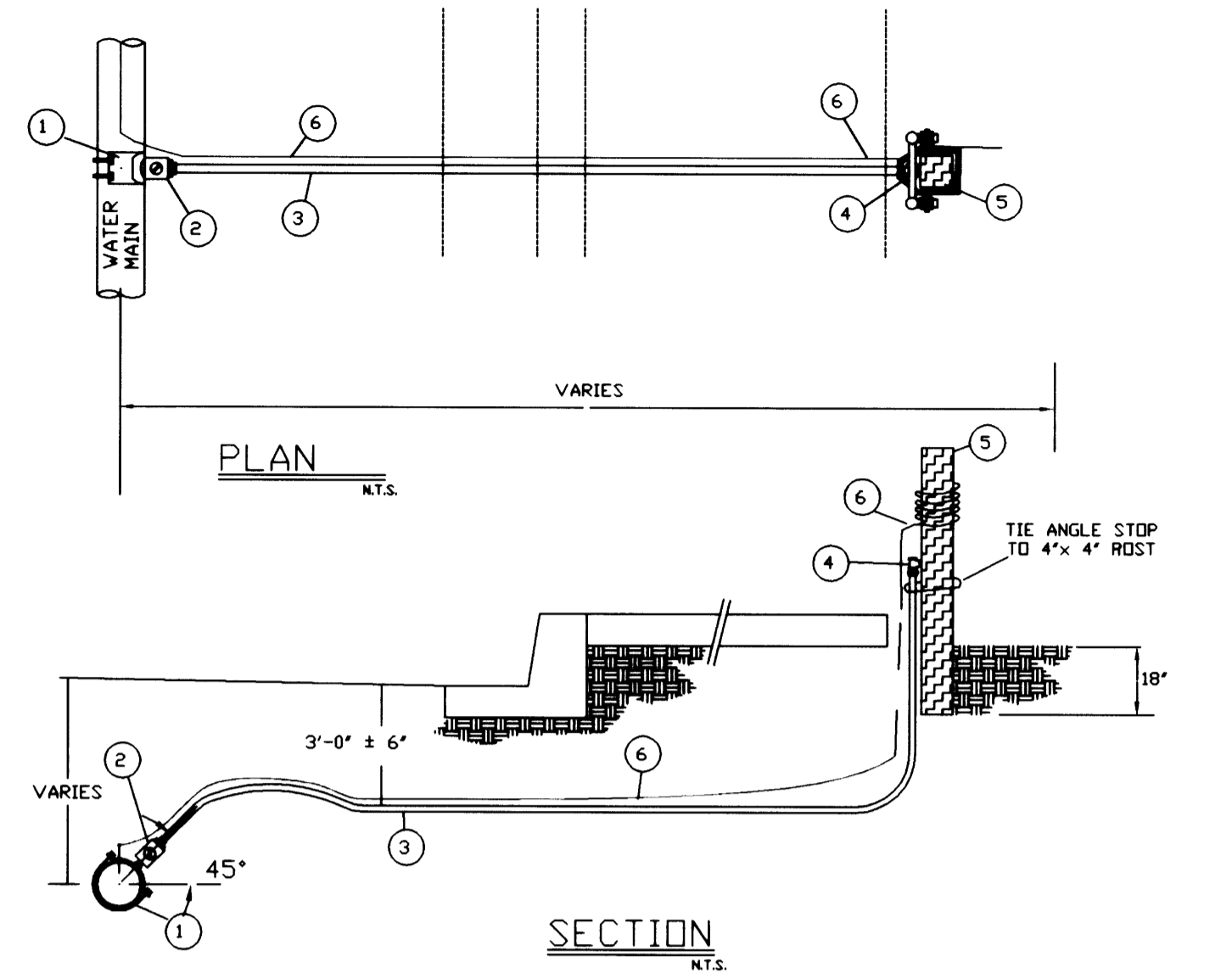


TABLE A THRUST AT FITTINGS IN POUNDS AT 150 POUNDS PER SQUARE INCH OF WATER PRESSURE					TABLE B SAFE BEARING LOAD OF VARIOUS SOILS	
PIPE SIZE	PLUG OR TEE	90° BEND	45° BEND	22 1/2° BEND	SOIL TYPE	SAFE BEARING LOAD, LB./SQ. FT.
4"	2780	3920	2130	1080	MULCH, PEAT, ETC...	0
6"	5700	8060	4370	2210	CLAY	1000
8"	9870	13,950	7560	3830	SAND	2000
10"	16,130	22,900	12,360	6260	SAND & GRAVEL	3000
12"	22,970	32,460	17,580	8910	SAND & GRAVEL CEMENTED WITH CLAY	4000
					HARD SHALE	10,000

- NOTES:**
- THRUST BLOCKING SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE ANCHORED. THE MINIMUM BEARING AREA AGAINST UNDISTURBED EARTH FOR THRUST BLOCKING SHALL BE CALCULATED BY DIVIDING THE THRUST (TABLE A) BY THE SAFE BEARING LOAD (TABLE B). EXAMPLE: A 4" 45° HORIZONTAL BEND WILL BE BLOCKED AGAINST CLAY. THE REQUIRED BLOCKING AREA AGAINST UNDISTURBED EARTH,  $A = 4370 \text{ lb./}1000 \text{ lb./sq. ft.} = 4.37 \text{ sq. ft.}$
  - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi AT 28 DAYS.
  - THRUST BLOCKING SHALL BE PLACED SO THAT THE PIPE AND FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIRS. INSTALL 6 MIL POLYETHYLENE SHEETING BETWEEN CONTACT POINTS OF CONCRETE AND FITTINGS.
  - THRUST BLOCKING FOR PIPES LARGER THAN 12", PRESSURES GREATER THAN 150 psi OR OTHER SITUATIONS NOT SHOWN HERE ON SHALL BE AS DIRECTED BY THE ENGINEER.

CITY OF ROSEBURG WATER DEPARTMENT DATE: 10/10/1983 STANDARD DWG. NO. 102  
REV: 5-11-1999

### TYPICAL DUAL 5/8" x 3/4" METER INSTALLATION ASSEMBLY

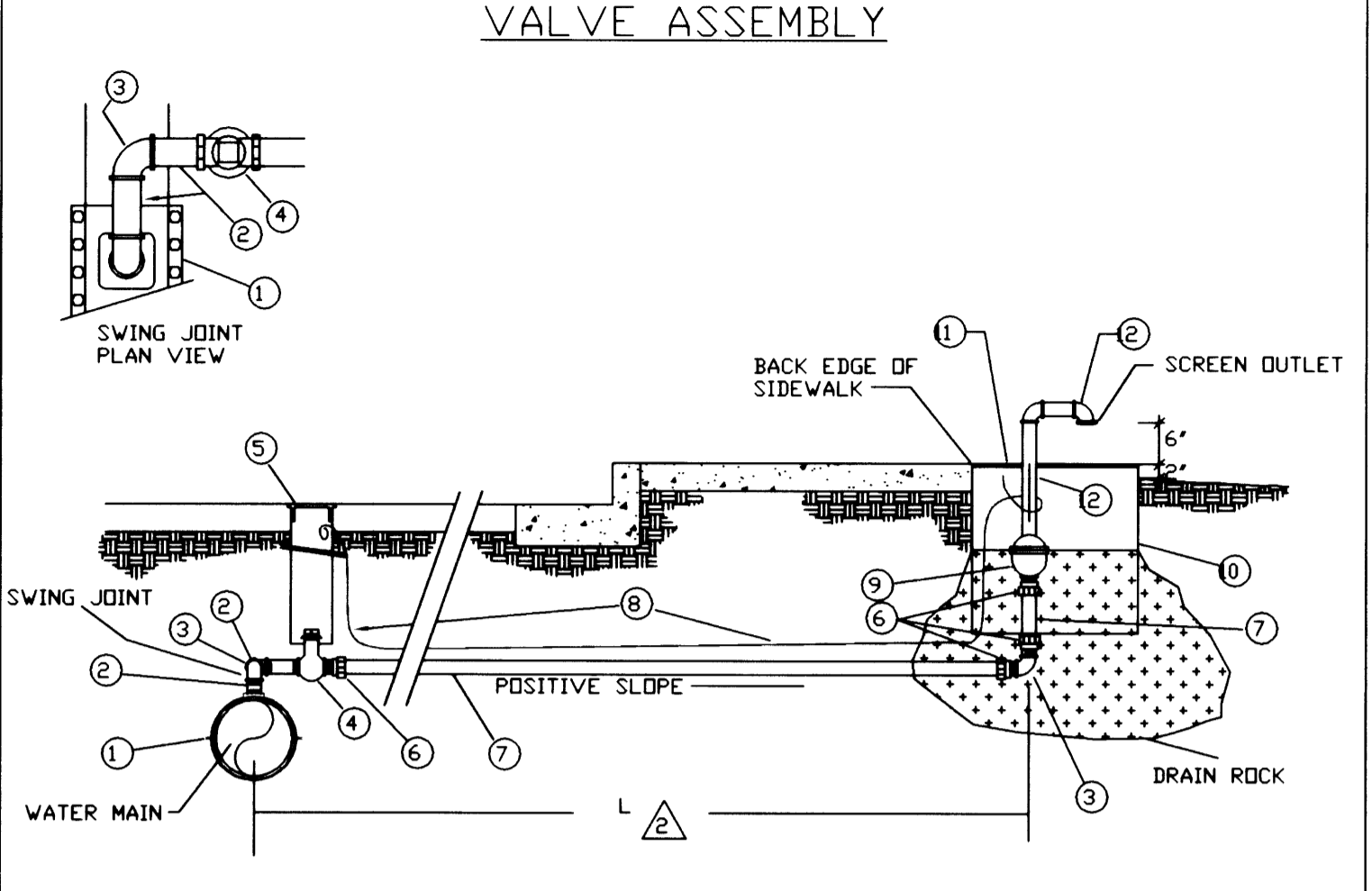


ITEM	SIZE	DESCRIPTION	TYPE	QTY
1	AS REQ'D	SERVICE SADDLE	FORD, CC THD.	1
2	1"	BRASS STOP	FORD, F1001 (CC x PACK JOINT)	1
3	1"	SERVICE PIPE	200 psi POLYETHYLENE SIDR7 (PE 3408)	AS REQ'D
4	1"	BRASS VALVE ASSEMBLY	FORD, KV63-42W (PACK JOINT)	1
5	4" x 4"	WOODEN	48" POST BURIED 18" DEEP	1
6	NO. 12	TONE WIRE	ELECTRICAL THIN STRANDED COPPER WIRE, COIL 12" IN METER BOX	AS REQ'D

- NOTES:**
- OR APPROVED EQUAL. SEE GENERAL SPECIFICATIONS.
  - TYPE AS APPROVED BY MANUFACTURER FOR WATER MAIN TYPE & SIZE.

CITY OF ROSEBURG WATER DEPARTMENT DATE: 10/7/1983 STANDARD DWG. NO. 109A  
REV: 4/6/2001

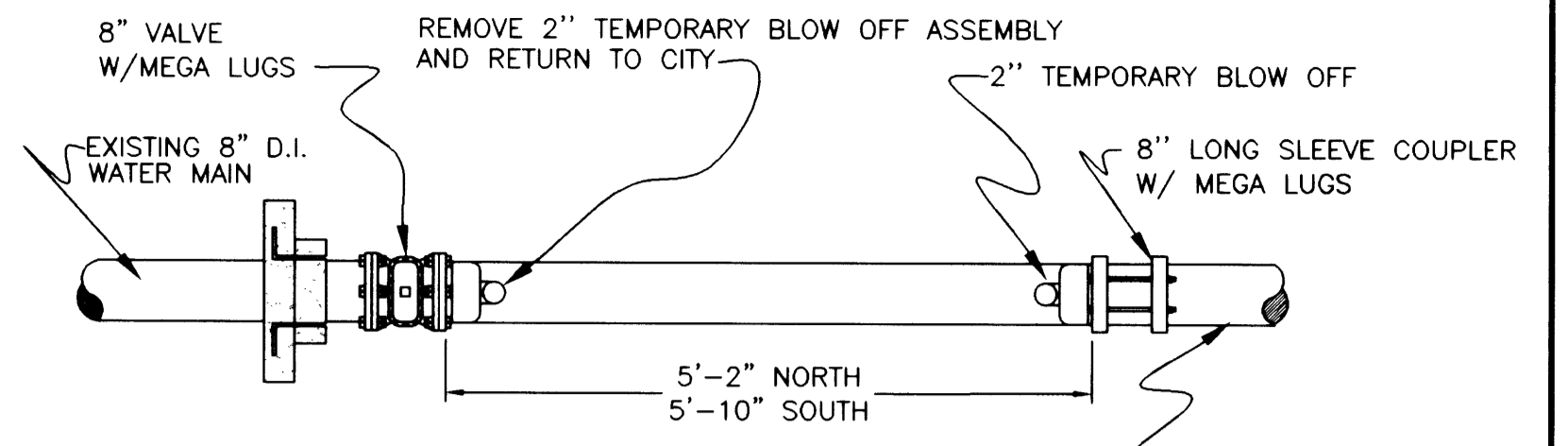
### TYPICAL 2" COMBINATION AIR RELEASE VALVE ASSEMBLY



ITEM NO.	QTY.	DESCRIPTION
1	1	SERVICE SADDLE PER PLANS & SPECIFICATIONS, FORD FS 202, MAIN SIZE X 2" IPT
2	3	BRASS NIPPLE, 2" IPT X 4"
3	3	BRASS 90° ELL, 2" IPT
4	1	IBBM GATE VALVE, 2" FIPT
5	1	VALVE BOX AND LID (SEE STD. DWG. NO. 103)
6	4	2" 200 psi MIPT x PE PJ ADAPTER
7	AS REQ'D	2" 200 psi PE SIDR7 (PE 3408) PIPE (OD TO FIT CL 200 FITTINGS)
8	AS REQ'D	NO. 12 THIN STRANDED COPPER TONE WIRE, BLUE INSULATION
9	1	COMBINATION AIR RELIEF VALVE, APCD 145C
10	2	CONCRETE METER BOXES, BROOKS NO. 37, STACKED
11	1	FAB. DIAMOND PLATE COVER, 3/8" X 16" X 23"
12	AS REQ'D	2" SCH 80 PVC PIPE AND FITTINGS

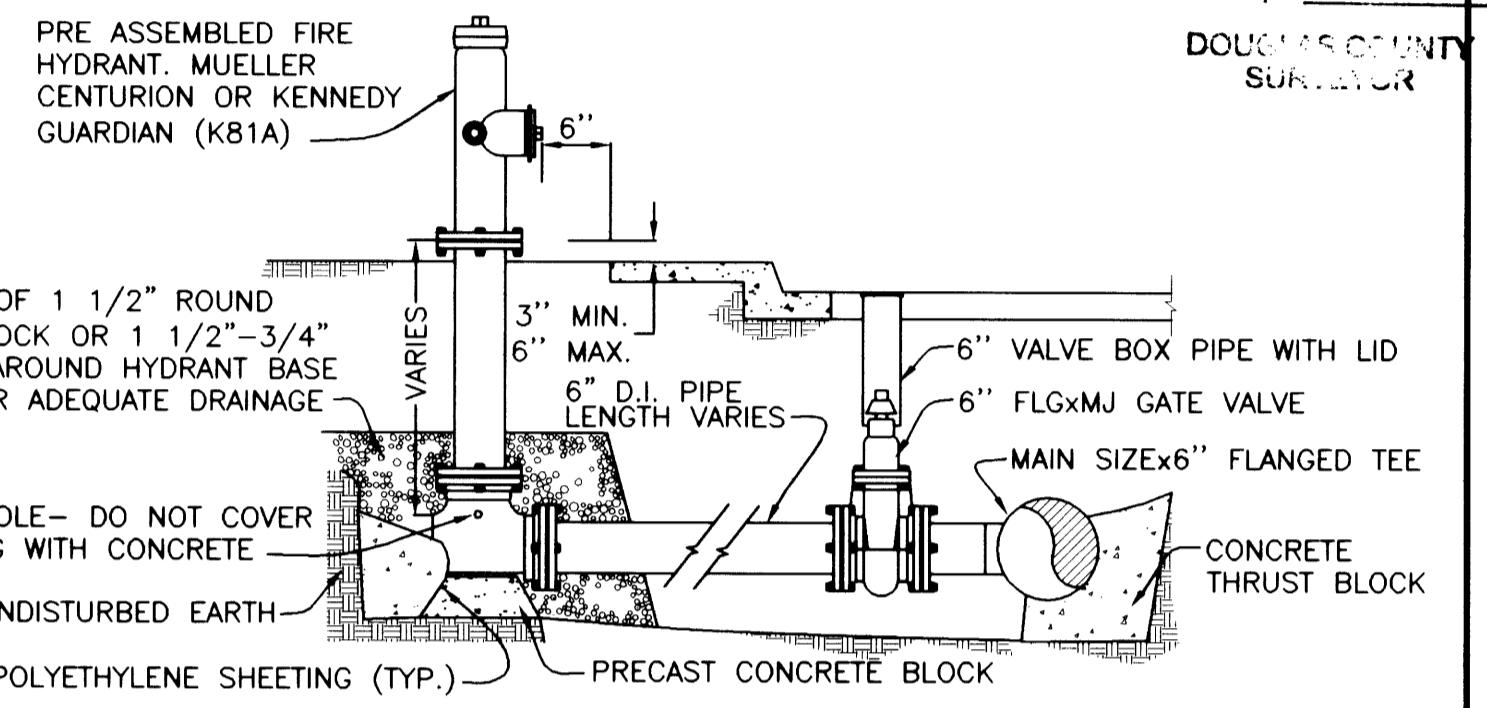
- NOTES:**
- OR APPROVED EQUAL.
  - L = 13' UNLESS NOTED OTHERWISE ON PLAN, OMIT TONE WIRE WHERE L IS LESS THAN 10'.

CITY OF ROSEBURG WATER DEPARTMENT DATE: 10/13/1983 STANDARD DWG. NO. 107B  
REV: 4/5/2001

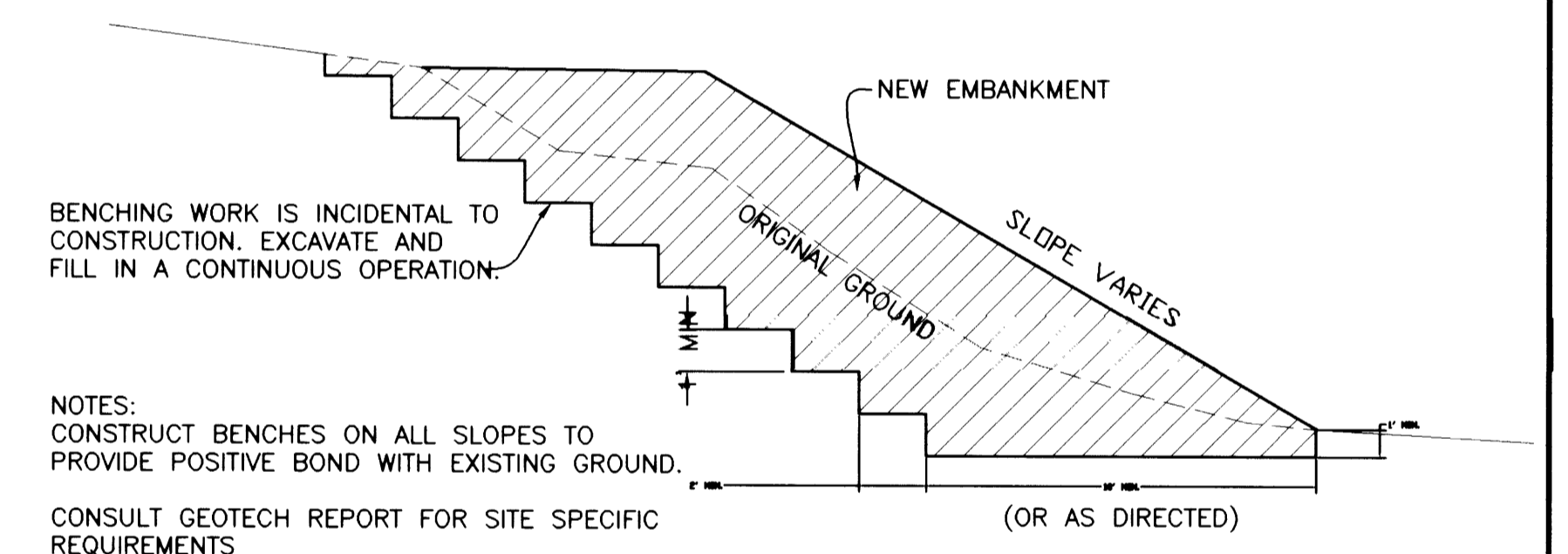


- NOTES:**
- ALL PIPE AND FITTINGS FOR TIE-IN TO BE CLEAN AND WIPED w/CHLORINE PRIOR TO INSTALLATION.
  - CONTRACTOR TO ALIGN NEW MAINLINE IN BOTH ALIGNMENT AND GRADE w/EXISTING 8" WATERLINE. CONNECTION TO EXISTING WATERLINE CAN ONLY BE MADE AFTER INSTALLATION, TESTING & DISINFECTION OF NEW WATERLINE HAS BEEN COMPLETED.

### WATER TIE-IN DETAIL

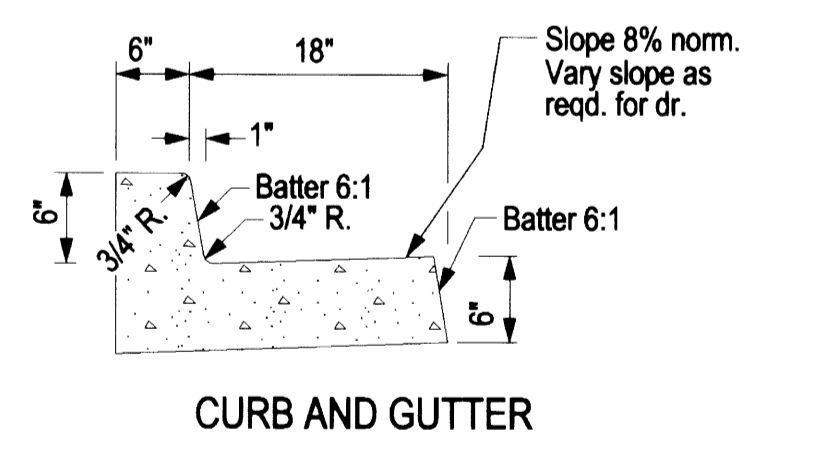


### TYPICAL FIRE HYDRANT INSTALLATION (THRUST BLOCKED)



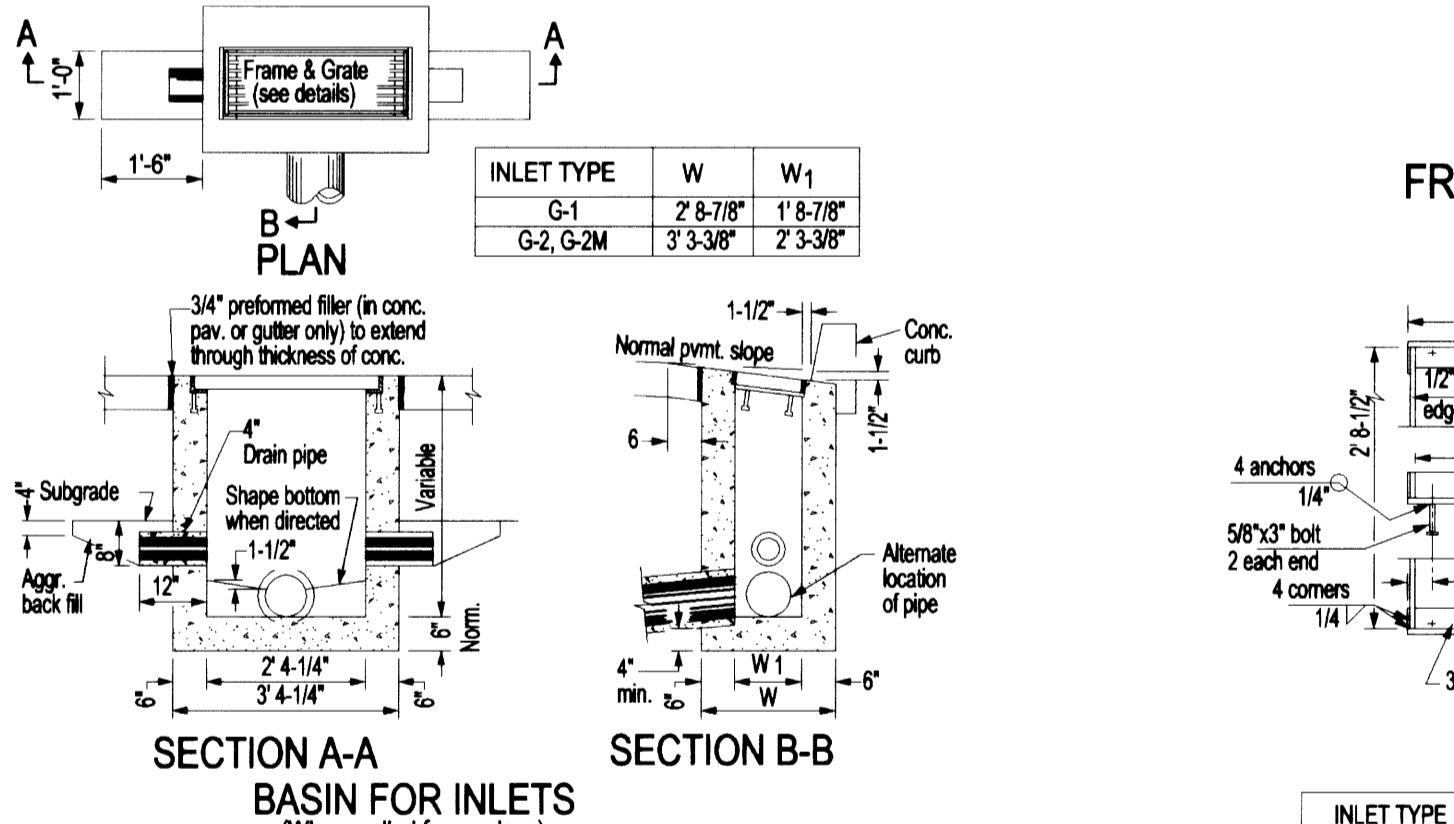
- NOTES:**
- BENCHING WORK IS INCIDENTAL TO CONSTRUCTION. EXCAVATE AND FILL IN A CONTINUOUS OPERATION.
  - CONSTRUCT BENCHES ON ALL SLOPES TO PROVIDE POSITIVE BOND WITH EXISTING GROUND.
  - CONSULT GEOTECH REPORT FOR SITE SPECIFIC REQUIREMENTS.

### STANDARD EMBANKMENT CONSTRUCTION

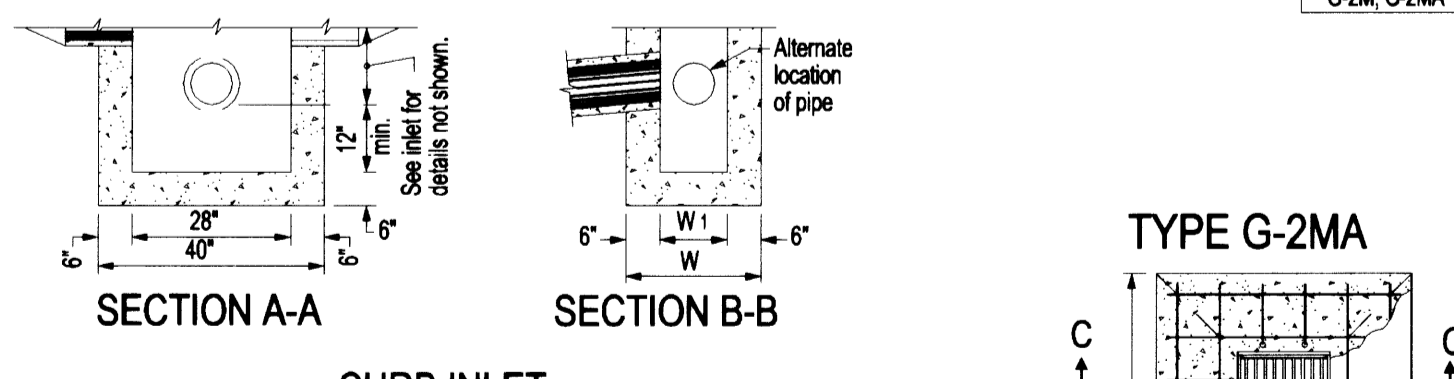


### CURB AND GUTTER

### TYPES G-1, G-2, G-2M

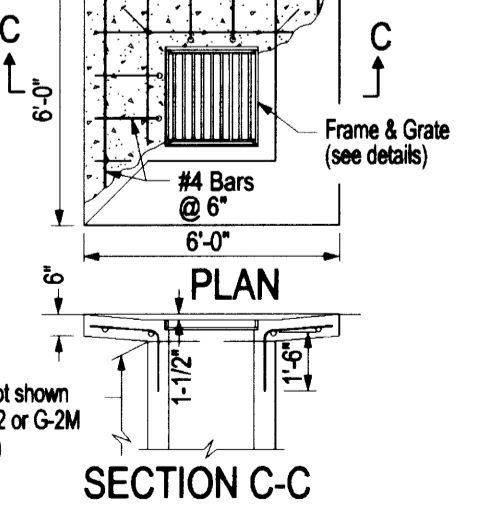


INLET TYPE	FRAME			NO. OF BARS	TYPE	REMARKS
	V	Y	Y <sub>1</sub>			
G-1	1' 10-3/4"	1' 9-3/8"	1' 9"	12	2	2-Grates
G-2	2' 4-3/4"	2' 3-3/8"	1' 1-1/2"	8	2	2-Grates
G-2M, G-2MA	2' 4-3/4"	2' 3-3/8"	2' 3"	9	1	



### CURB INLET

### TYPE G-2MA

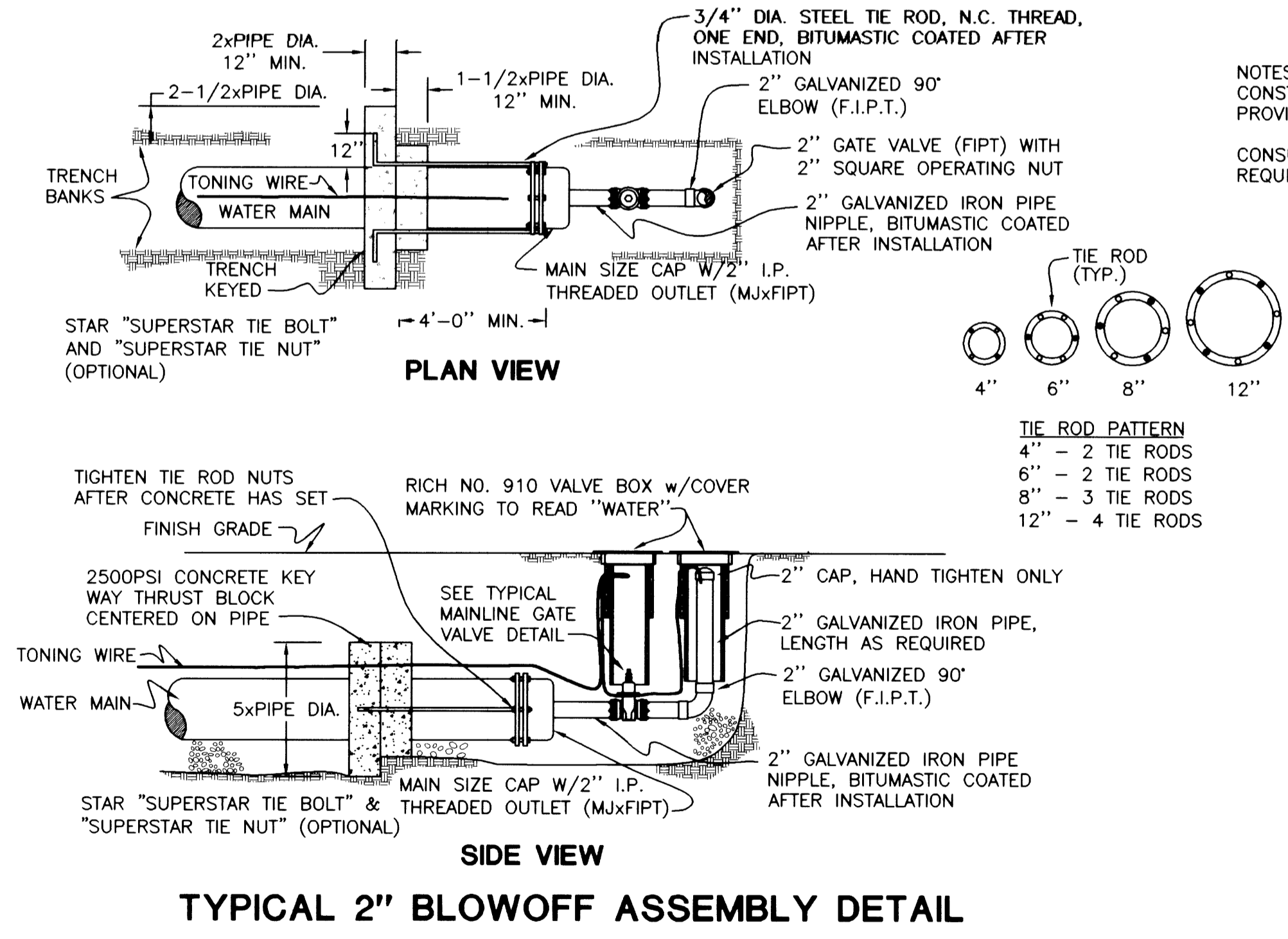


The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

CONCRETE INLETS  
TYPES G-1, G-2 & G-2M

2002 REVISIONS

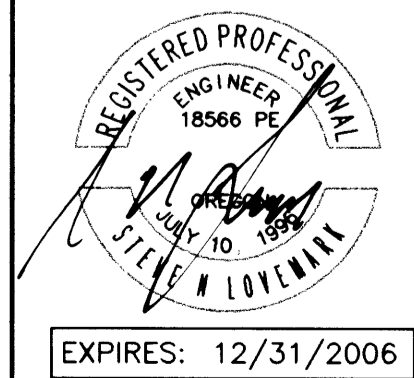


### TYPICAL 2" BLOWOFF ASSEMBLY DETAIL

CITY OF ROSEBURG  
Public Works Dept.  
Development Plan Review

Approved for Development: \_\_\_\_\_  
Approved with Conditions: \_\_\_\_\_

By: \_\_\_\_\_  
Date: \_\_\_\_\_



Rev.	Date	Dwg	Description
1	2/21/05	ANV	CITY OF ROSEBURG
2	12/13/05	JDL	AS-BUILT

Project Name: TAFT HEIGHTS PHASE 3B

Title: DETAILS

DES DMA PROJECT NO. 1733-06

DWG ANV DATE: JANUARY 11, 2005

CHK SNL SCALE: AS SHOWN

APP SNL SHEET: 6 OF 8

Co. Rd. # 908A & 908B

### CO RD #908A & 908B

R908DET1

6