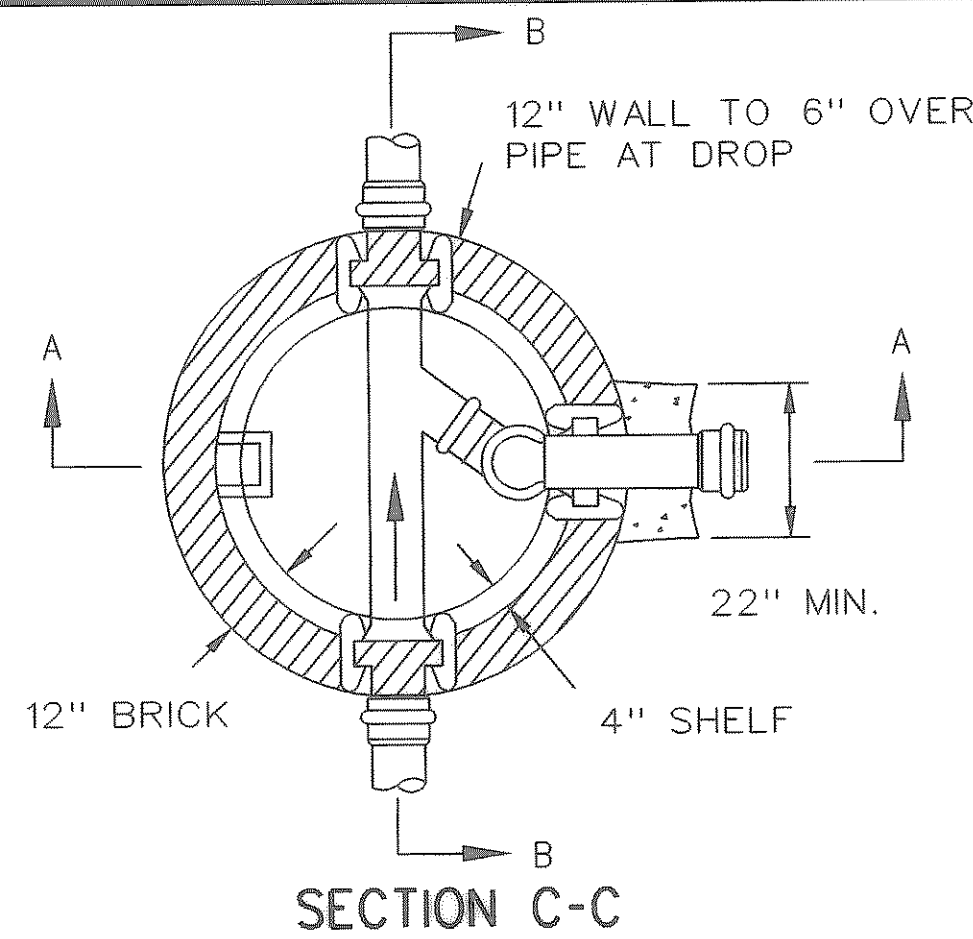
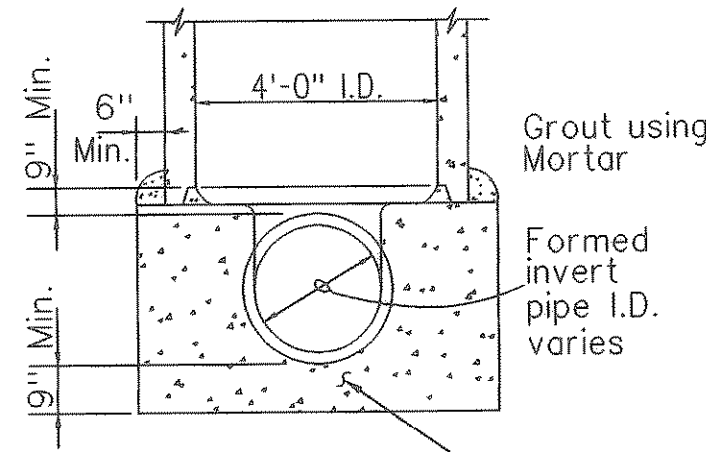
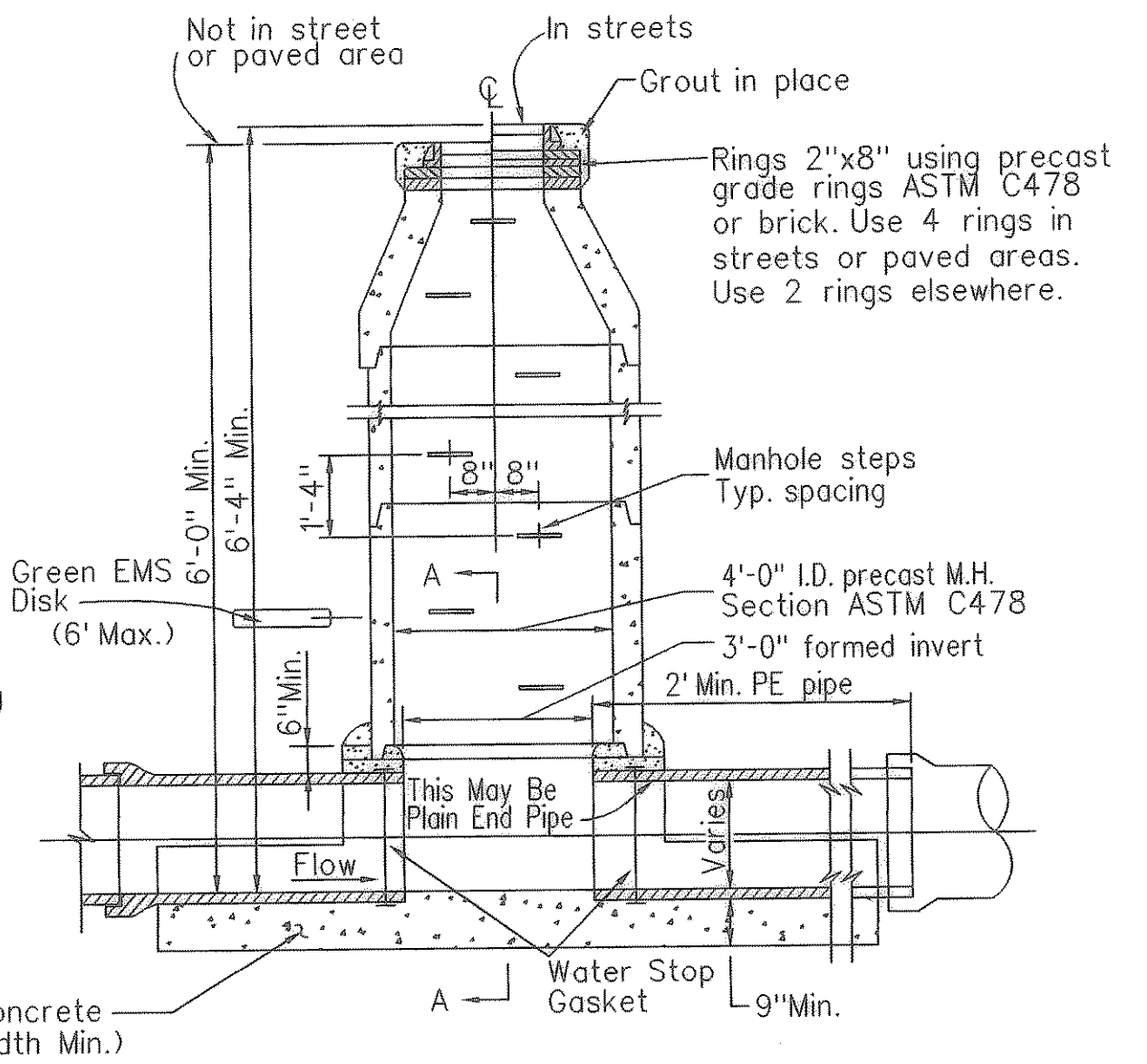




Note: Cast in place manhole shall be similar in shape and dimensions as shown. Applicable cast-in-place details shall be approved by the City. Top part of manhole may be eccentric when approved by the City. Manhole steps to be spaced vertically at 16" center-to-center and stagger same. Concrete above base (foundation) to be 4000 PSI class. See specifications for more details.



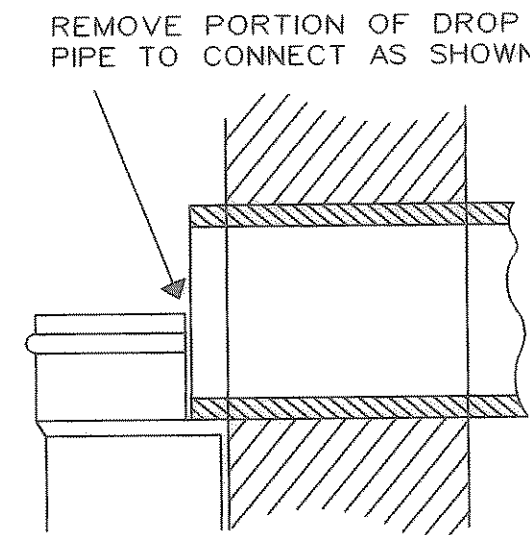
SECTION A-A



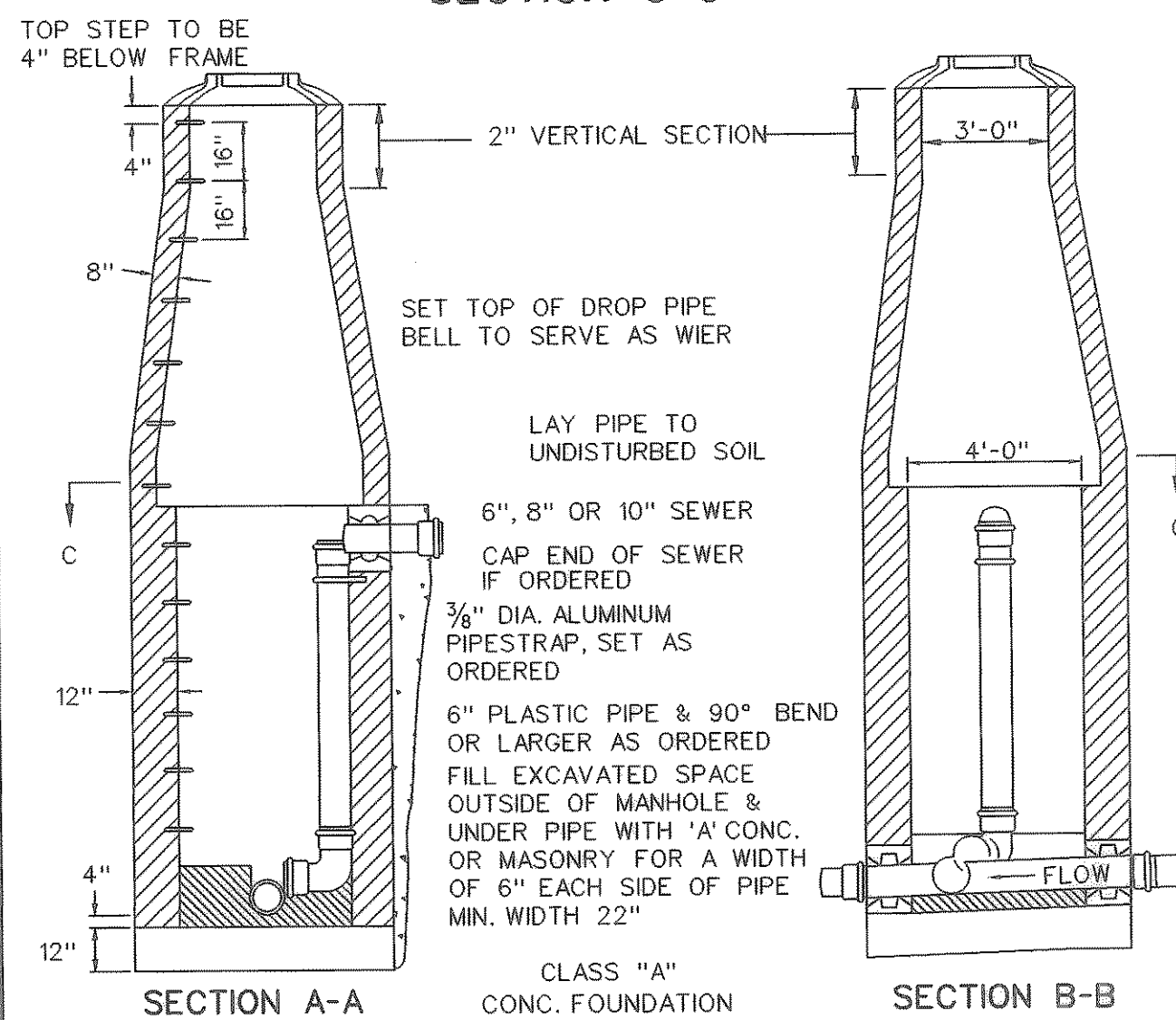
SECTION THRU PRE-CAST CONCRETE MANHOLE

TYPICAL DETAILS PRE-CAST CONCRETE MANHOLE

(Depths Not Less Than 6 Feet)
See Note For Cast-In-Place Manhole



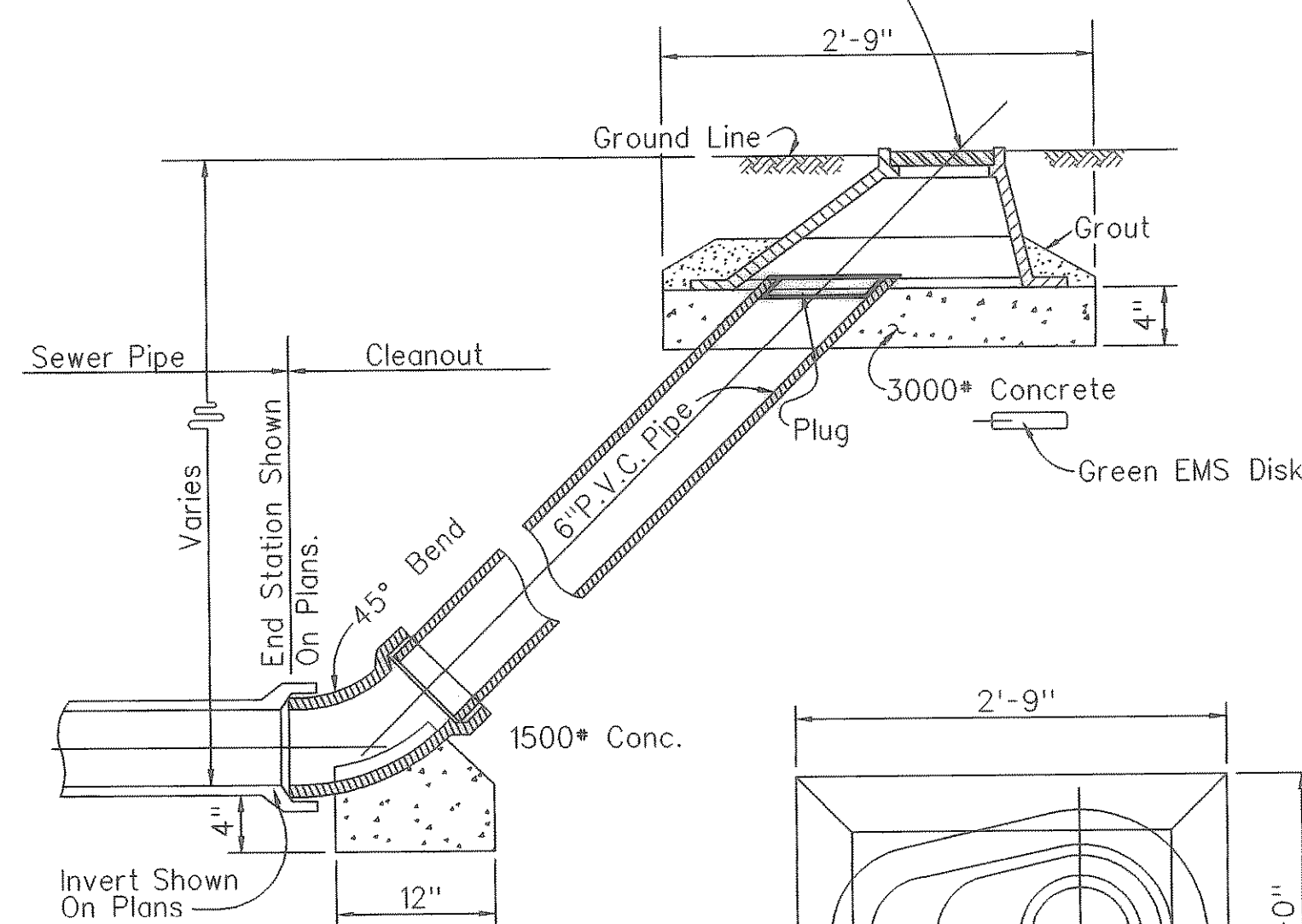
WEIR DETAIL



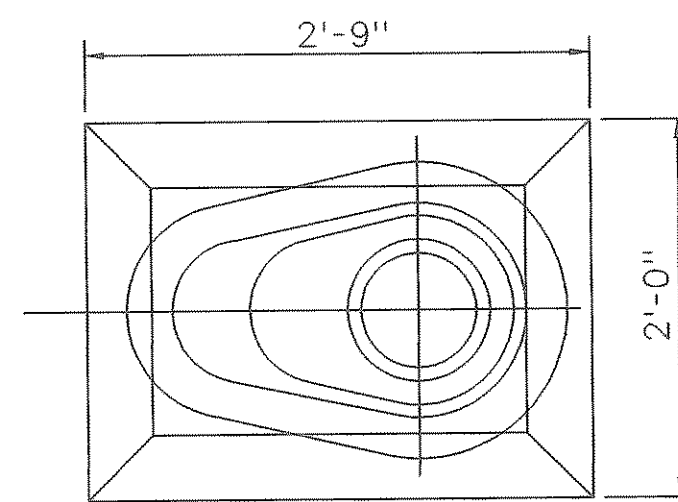
INSIDE DROP CONNECTION MANHOLE

Not To Scale

Cast Iron Sewer Cleanout,
Type Trinity Valley, Pattern
1684 Or Equal.



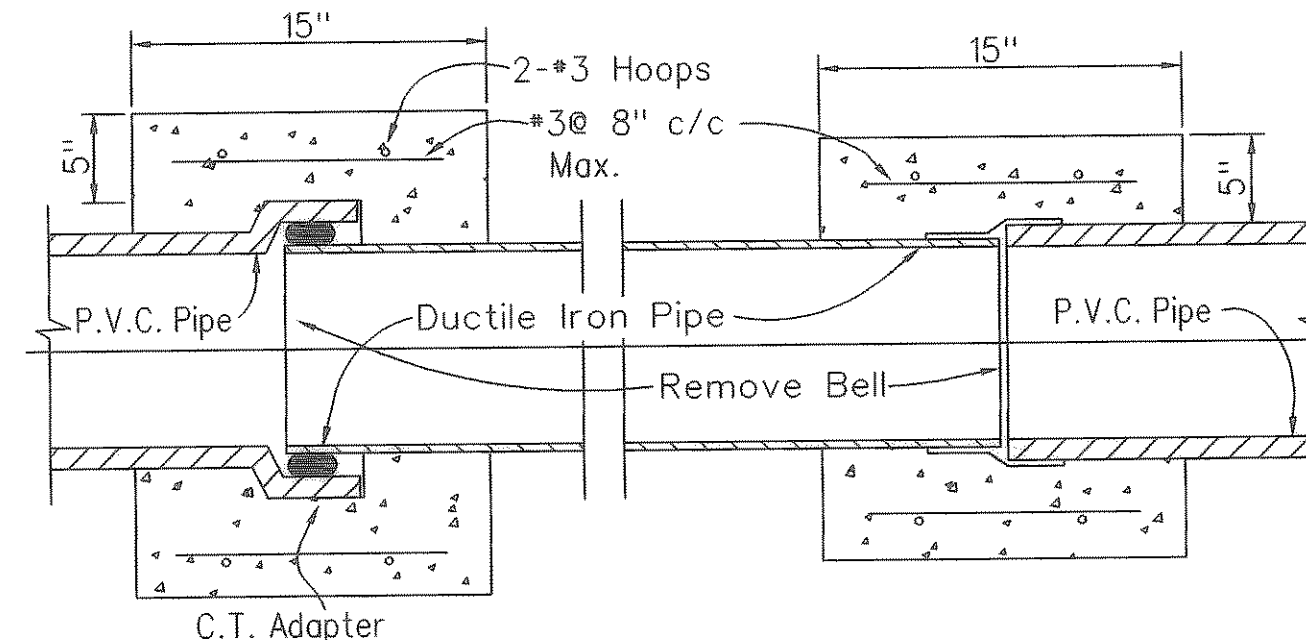
SECTION



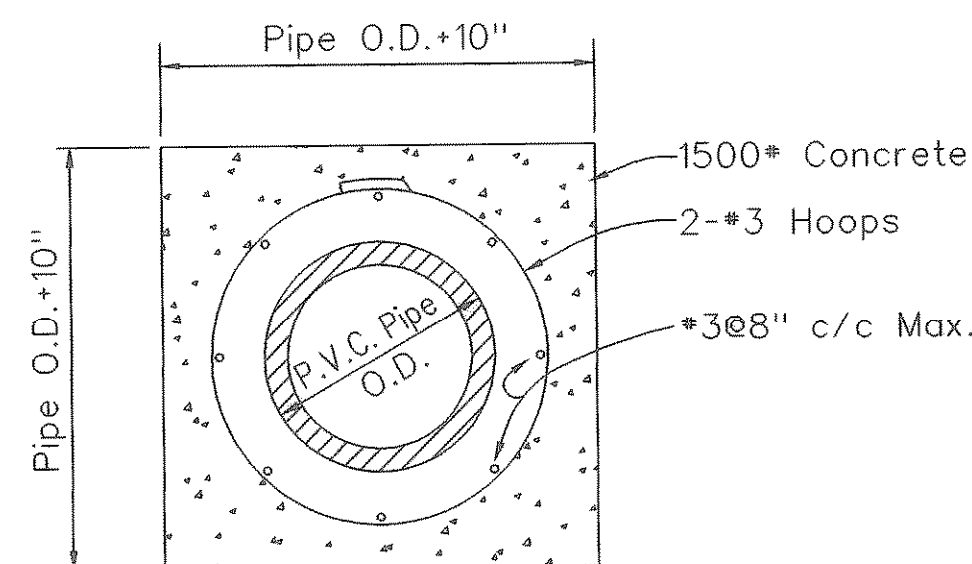
PLAN

SEWER CLEANOUT

Not To Scale



LONGITUDINAL SECTION



CROSS SECTION

DETAIL - CONCRETE PIPE COLLARS

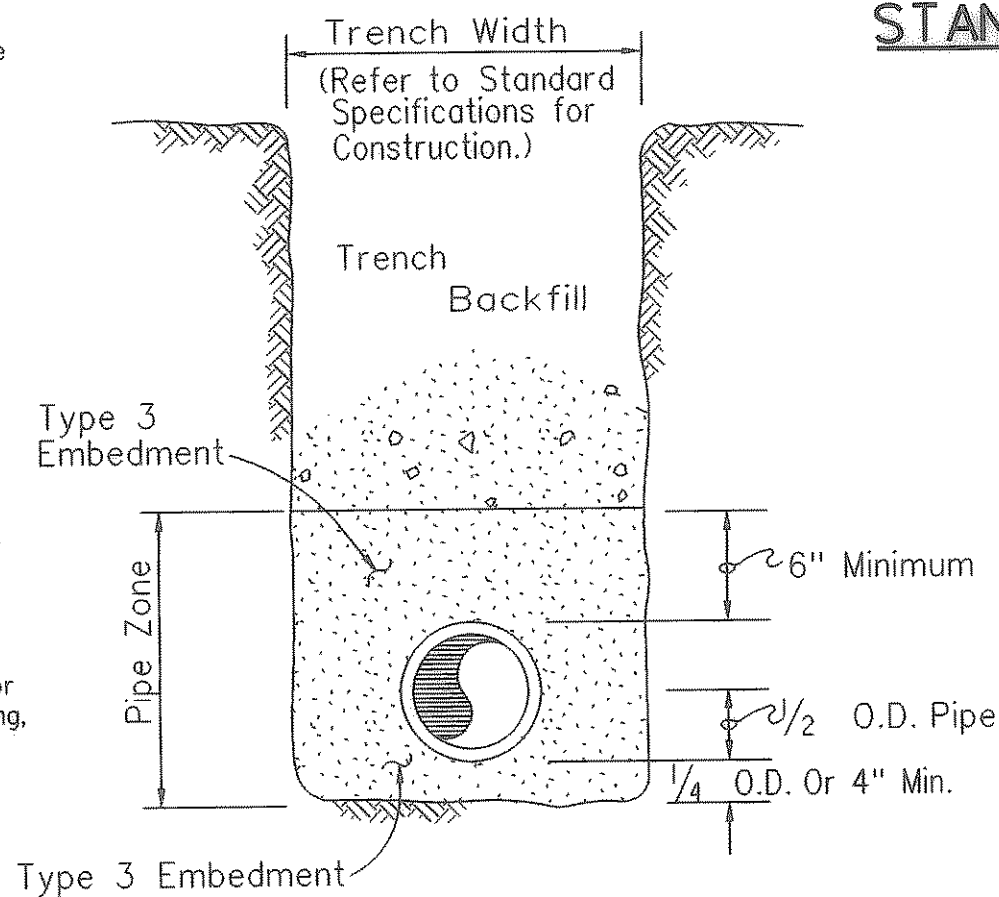
Not To Scale

CRUSHED LIMESTONE, TYPE 1, EMBEDMENT: Crushed limestone shall consist of durable particles of crushed stone ranging in size from 3/4" to 1/4" with percent of wear not exceeding 35%. The gradation based on ASTM D448 size 67 use as follows:

Sieve Size	% By Weight Passing
1"	100
3/4"	90 - 100
3/8"	20 - 55
No. 4	0 - 10
No. 8	0 - 5

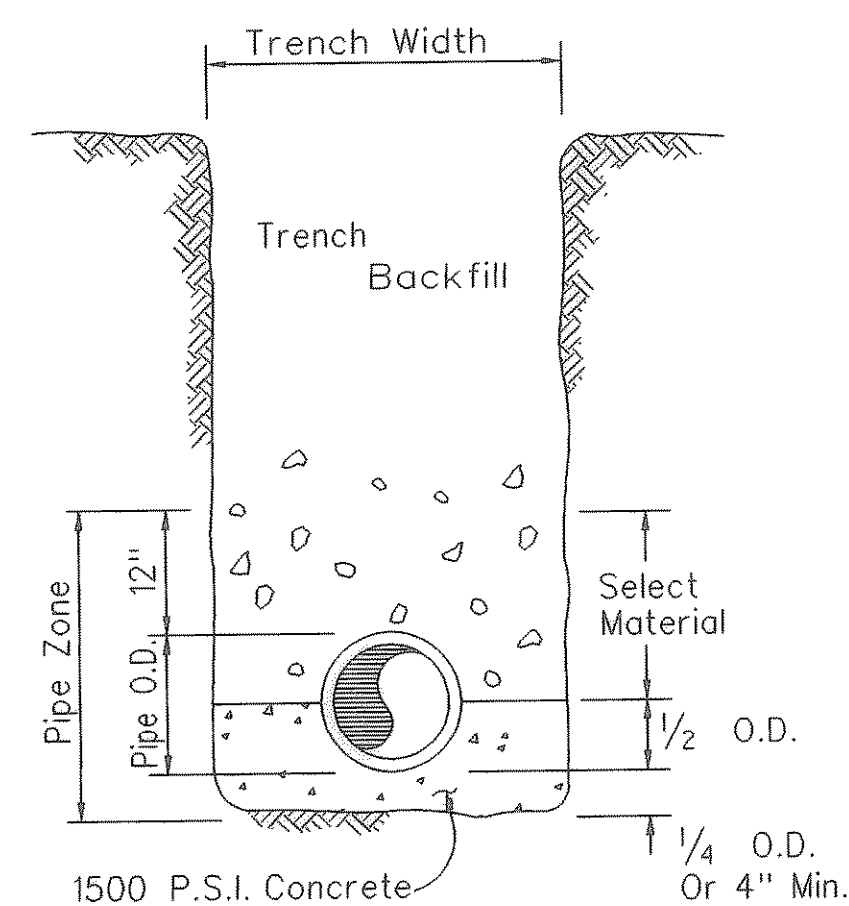
GRAVEL, TYPE 2, EMBEDMENT: Gravel for embedment and/or encasement shall be washed gravel ranging in size from 3/4" diameter to 1/4" inch diameter meeting the requirements of ASTM designation C33, Gradation 67. The material shall be free from clay and organic material.

GRANULAR, TYPE 3, EMBEDMENT: Pit run granular embedment material shall be free flowing sand or mixed sand and pea gravel free from large stones, clay and organic material. The material may be an inferior grade of pit run or blow sand not normally considered satisfactory for concrete aggregate and may be used directly from pits without processing, provided it complies with the qualities described herein. The material shall be such that when wet it will not form a mud ball or tend to cling together. The material shall have 100% passing one inch (1") sieve and the plasticity index of that part passing the sieve is obtained from the City.

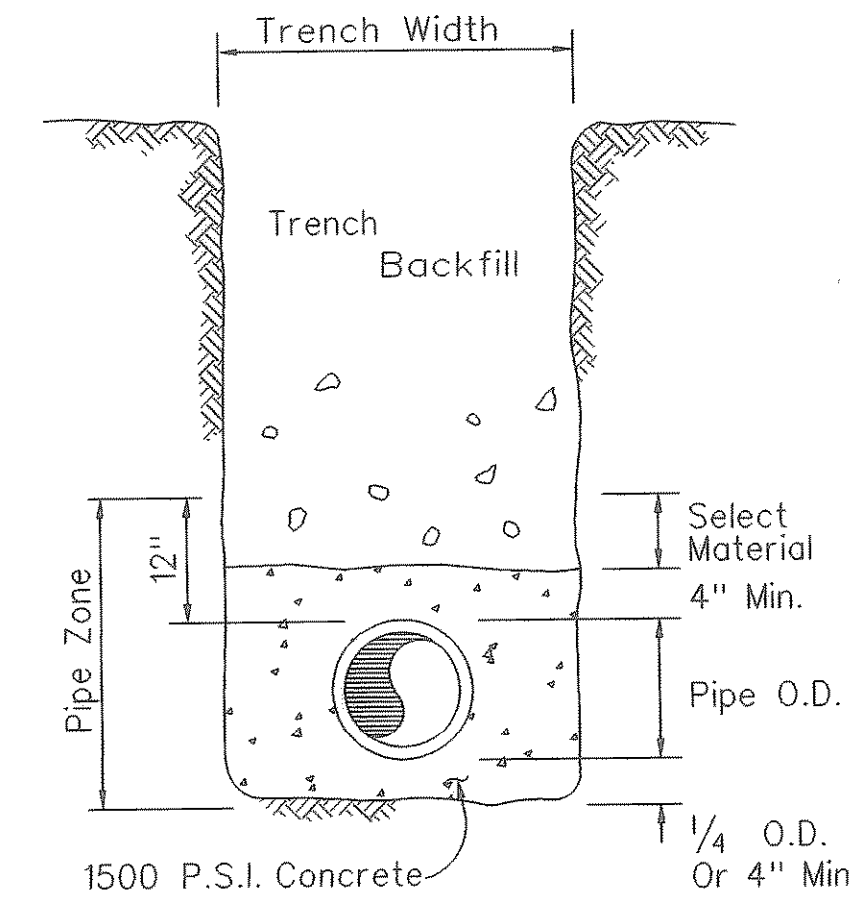


PIPE EMBEDMENT DETAIL

Not To Scale



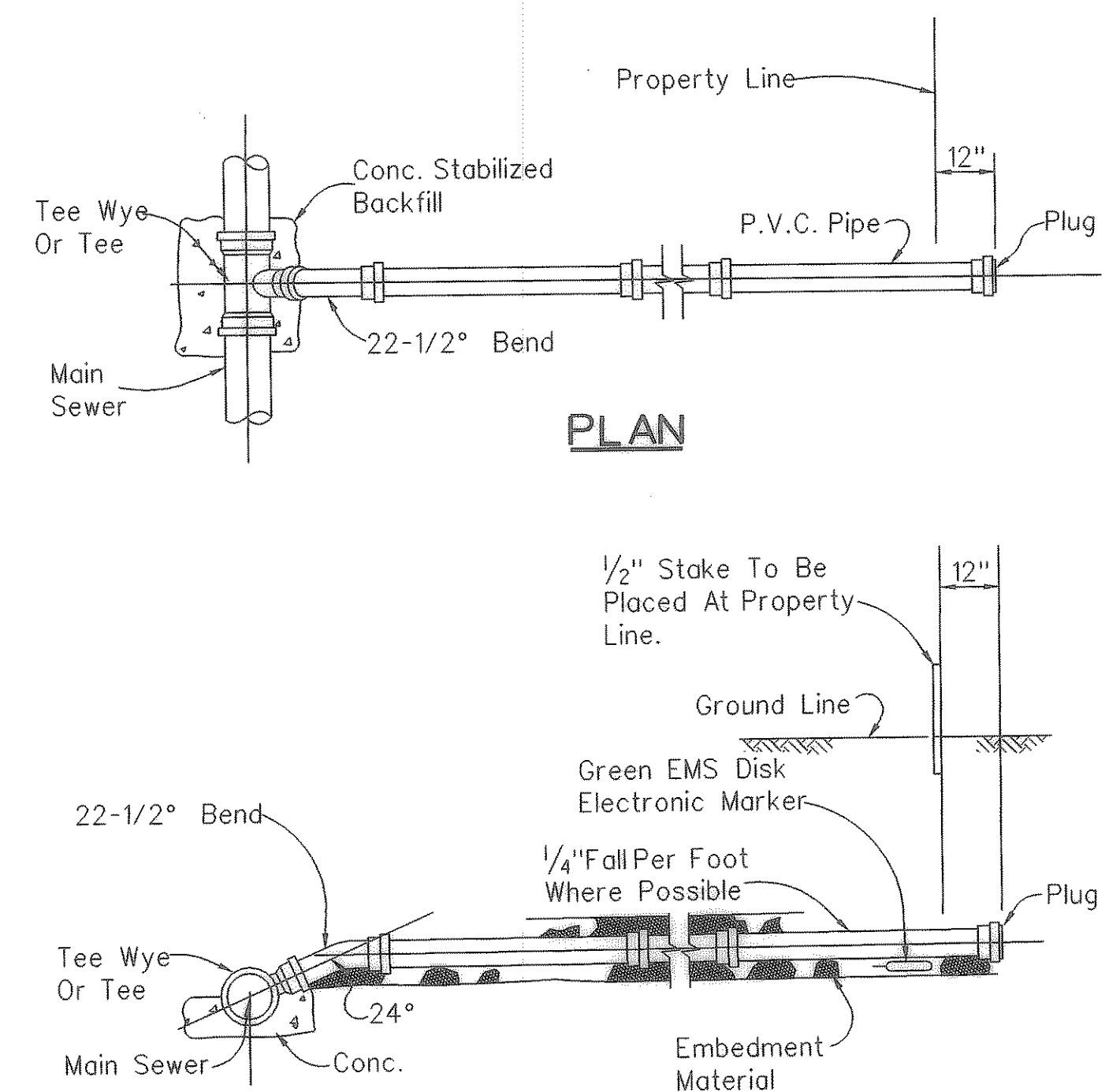
CONCRETE CRADLE



CONCRETE ENCASEMENT

CONCRETE CRADLE AND ENCASEMENT DETAILS

Not To Scale



PLAN

SIDE VIEW

STANDARD SERVICE CONNECTION

Not To Scale

RECORD DRAWINGS

These record drawings have been prepared using information provided by the Construction Contractor and/or Owner. The seal and signature below only signifies that the plans have been revised in accordance with the information provided and does not guarantee that these plans accurately show every detail of the constructed project.

Signature 4-2-02
Date

STATE OF TEXAS

TED B. SUGG
REGISTERED PROFESSIONAL ENGINEER
2-18-01

NO.	DATE	REVISION	APPROVAL
4			
3			
2			
1			
CITY OF ROCKWALL "THE NEW HORIZON" TOWNSEND DRIVE STANDARD WATER AND SEWER DETAILS TurnerCollie & Braden Inc. ENGINEERS • PLANNERS • PROJECT MANAGERS			
Unit	A123	Scale: Horiz. 1"=20'	Date: FEBRUARY, 2001
Designed	VVS	Checked: TBS	Job No. 15-00925-200
Drawn	GBA	Approved: RCR	Sheet 56 of 72