

JUNCTION BOX
 - - - - - SEWER
 - - - - - WATER
 - - - - - GAS
 - - - - - ELECTRIC, CTV, TELEPHONE

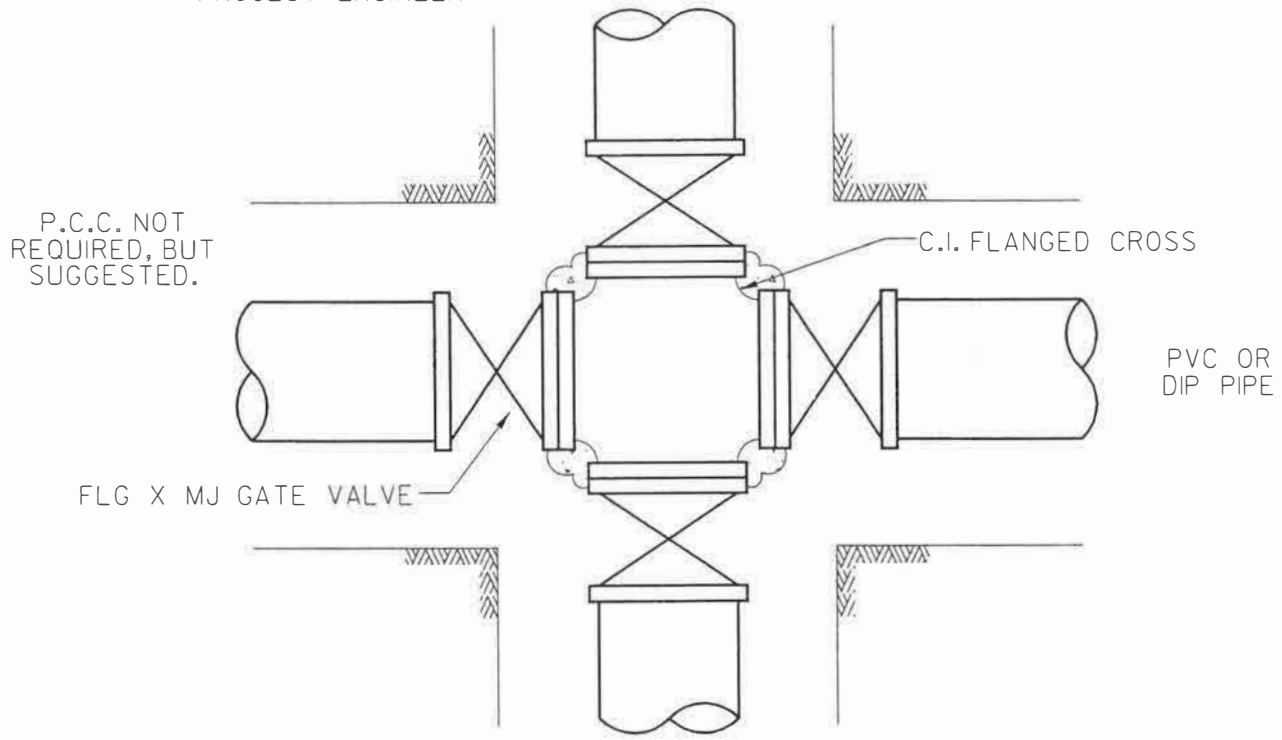
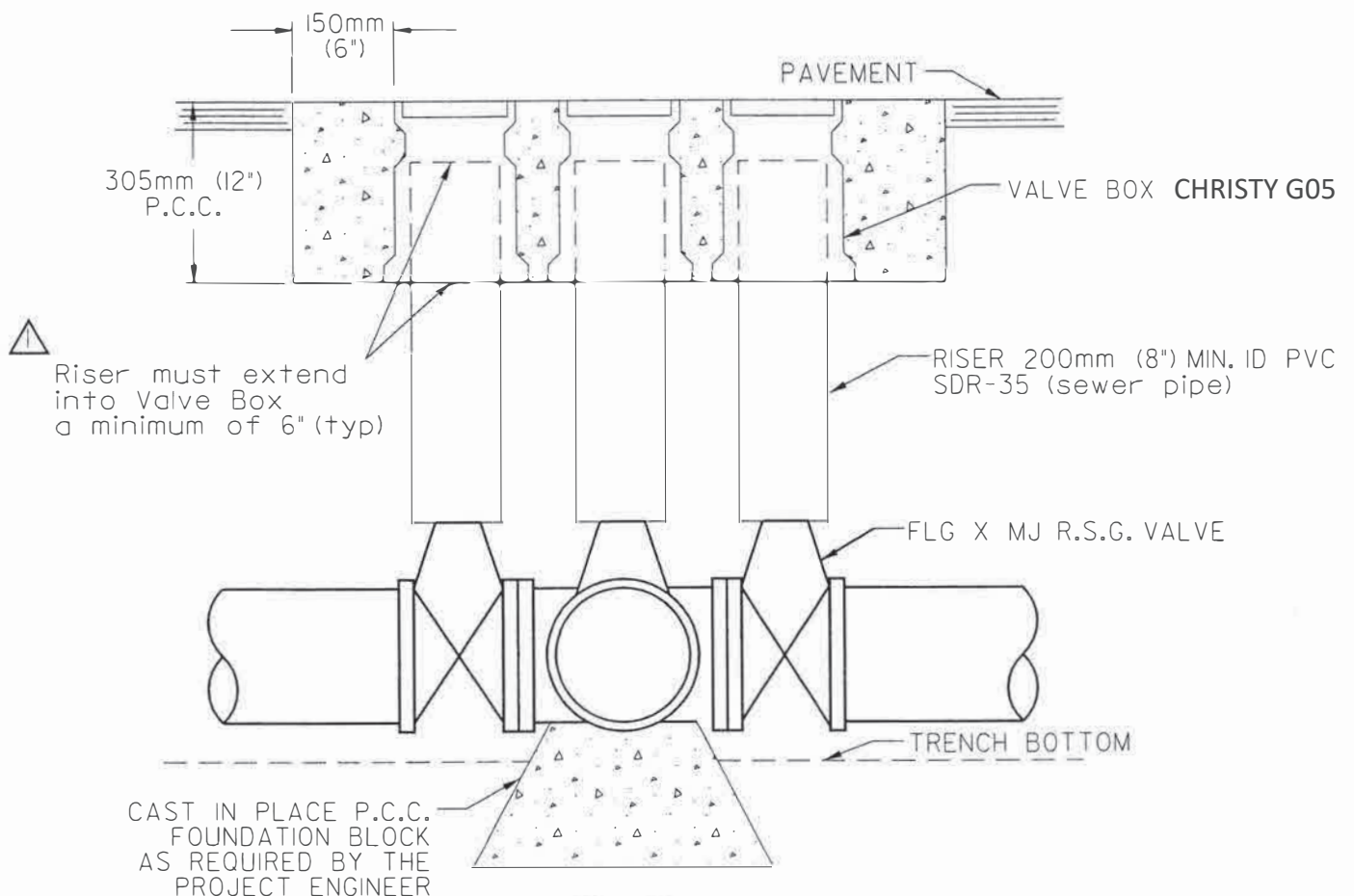
N.T.S.

Drawing No. 100

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

UTILITY SERVICE LATERALS
SYMBOLS & ABBREVIATIONS

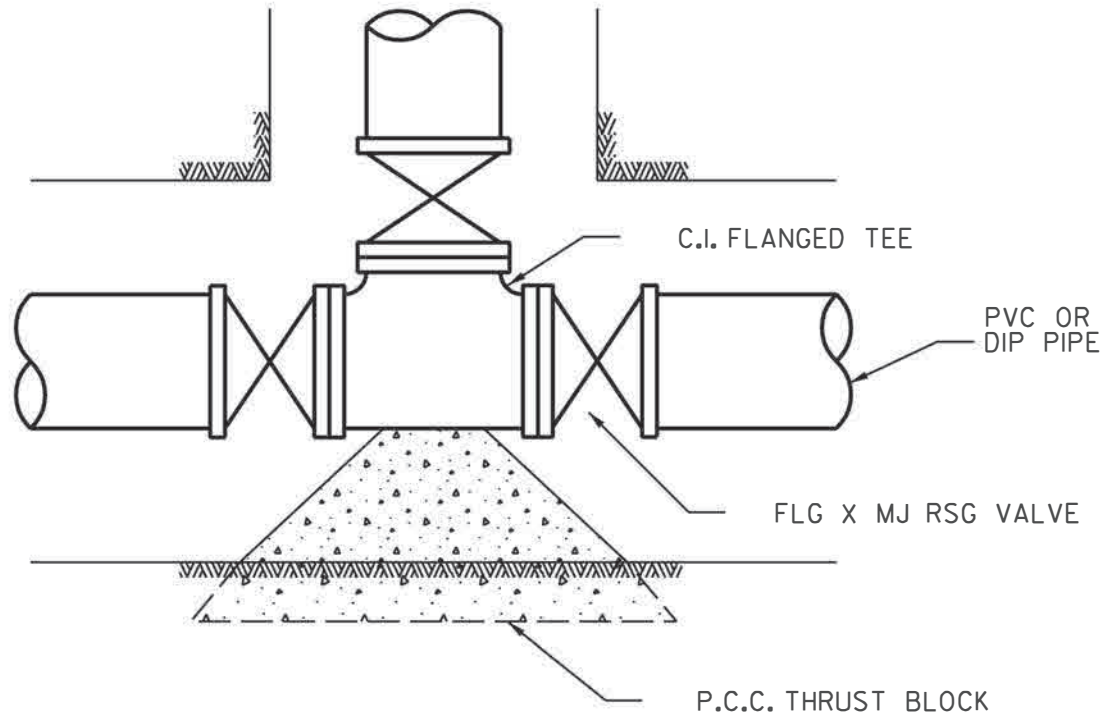
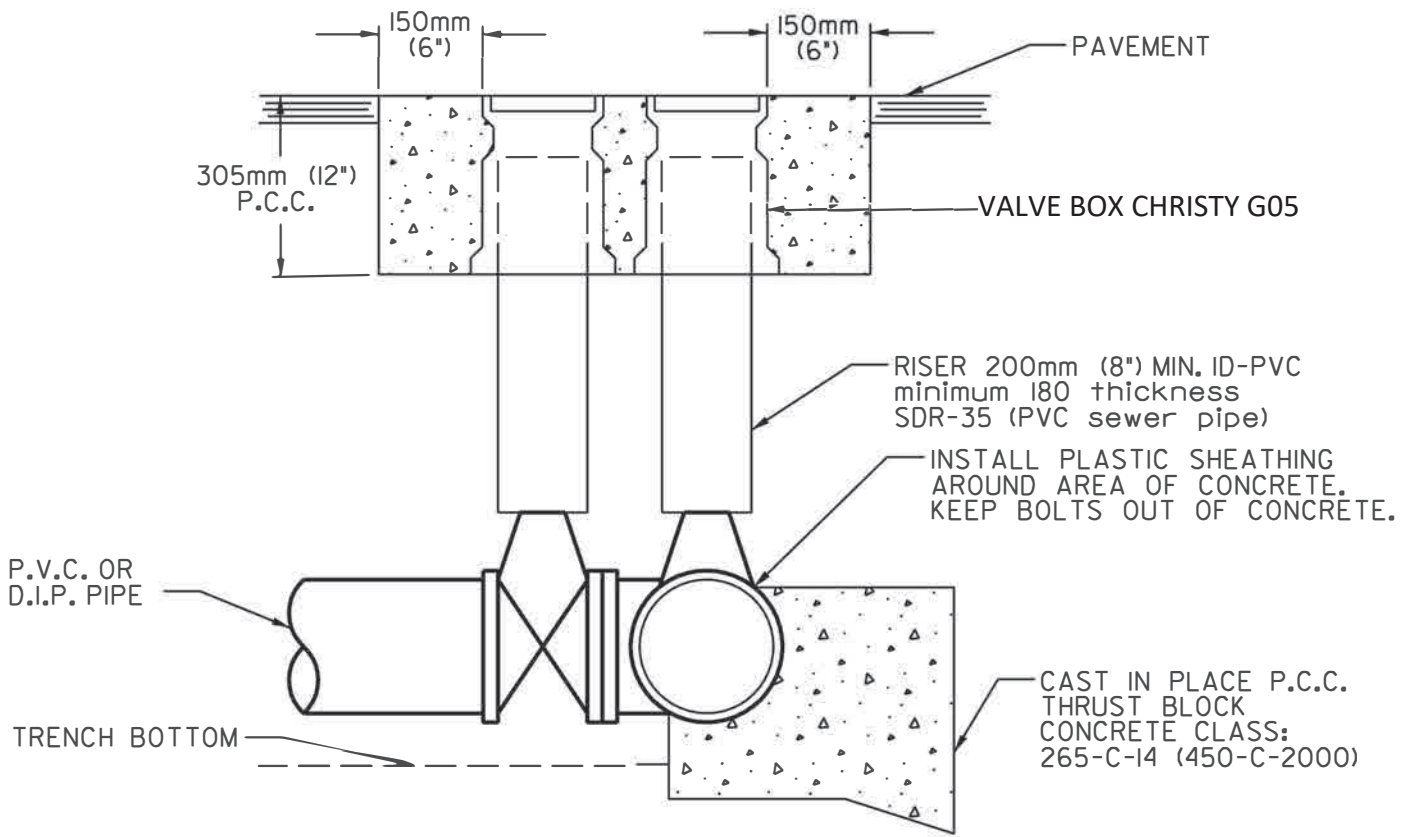
MARK	REVISIONS	APPR.	DATE



Drawing No. 102

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

CROSS WITH 4 VALVES FLG. X RT.



Drawing No. 103

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

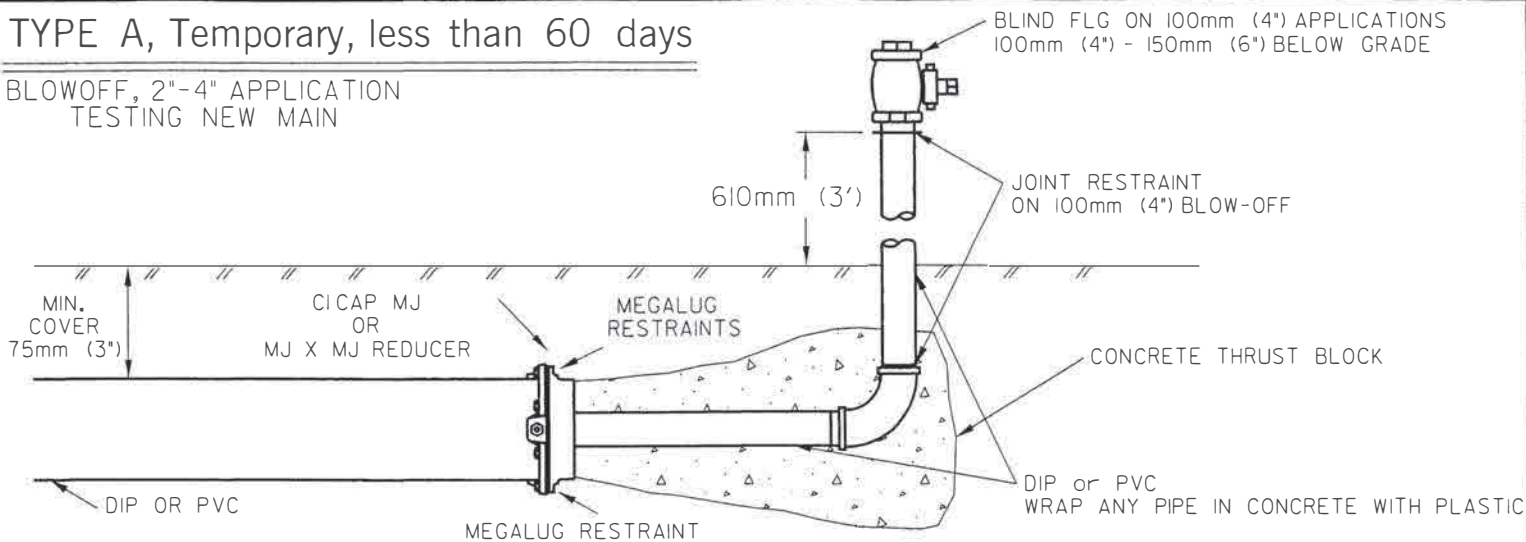
TEE WITH 3 VALVES FLG. X RT.

MARK	REVISIONS	APPR.	DATE

SHEET 1 OF 1

TYPE A, Temporary, less than 60 days

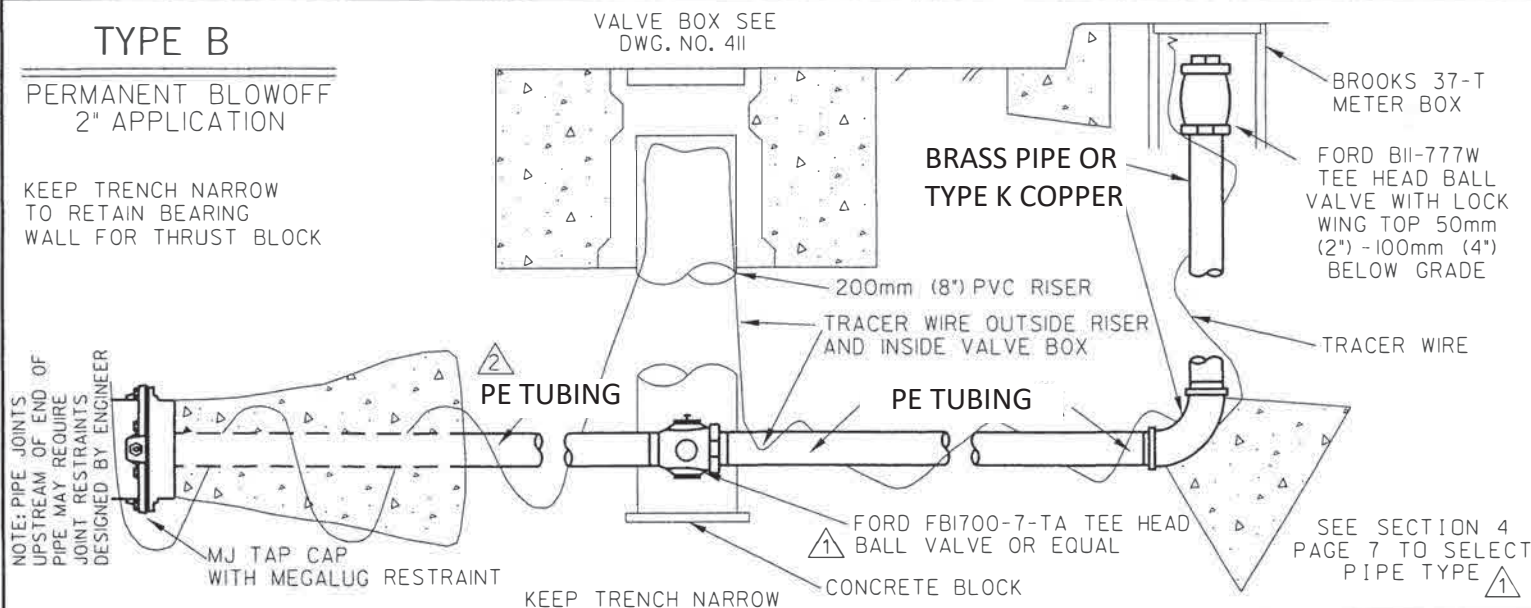
BLOWOFF, 2"-4" APPLICATION
TESTING NEW MAIN



TYPE B

PERMANENT BLOWOFF
2" APPLICATION

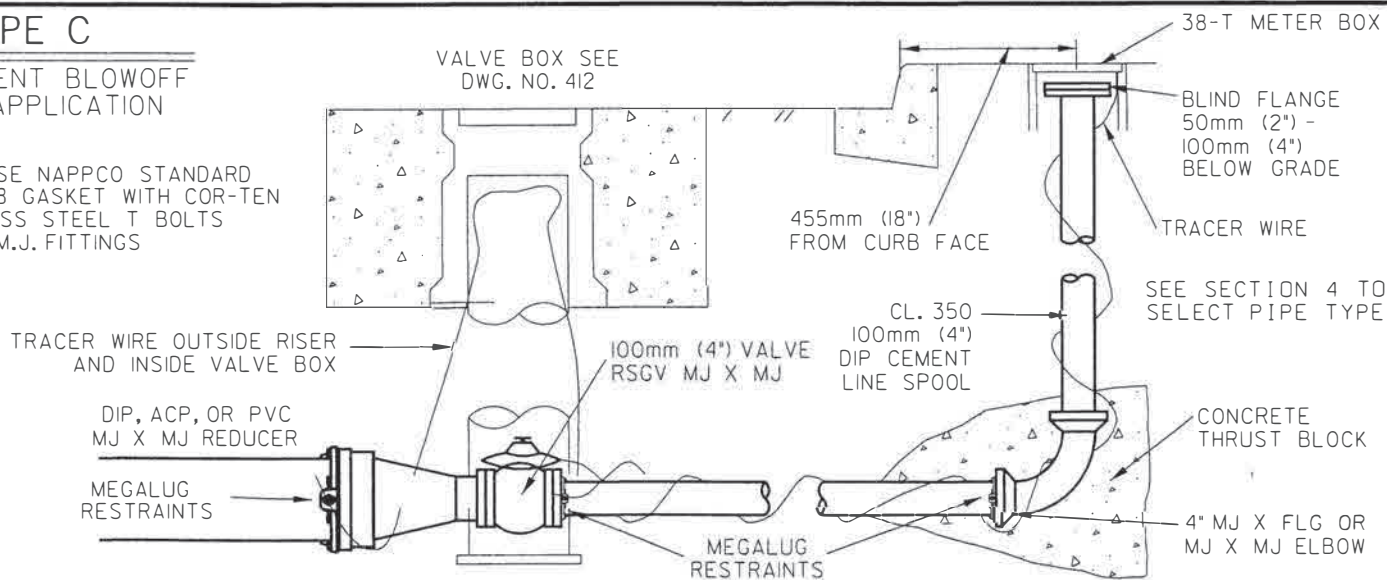
KEEP TRENCH NARROW
TO RETAIN BEARING
WALL FOR THRUST BLOCK



TYPE C

PERMANENT BLOWOFF
4"-6" APPLICATION

NOTE: USE NAPPCO STANDARD
GLAND 8 GASKET WITH COR-TEN
STAINLESS STEEL T BOLTS
ON AL M.J. FITTINGS



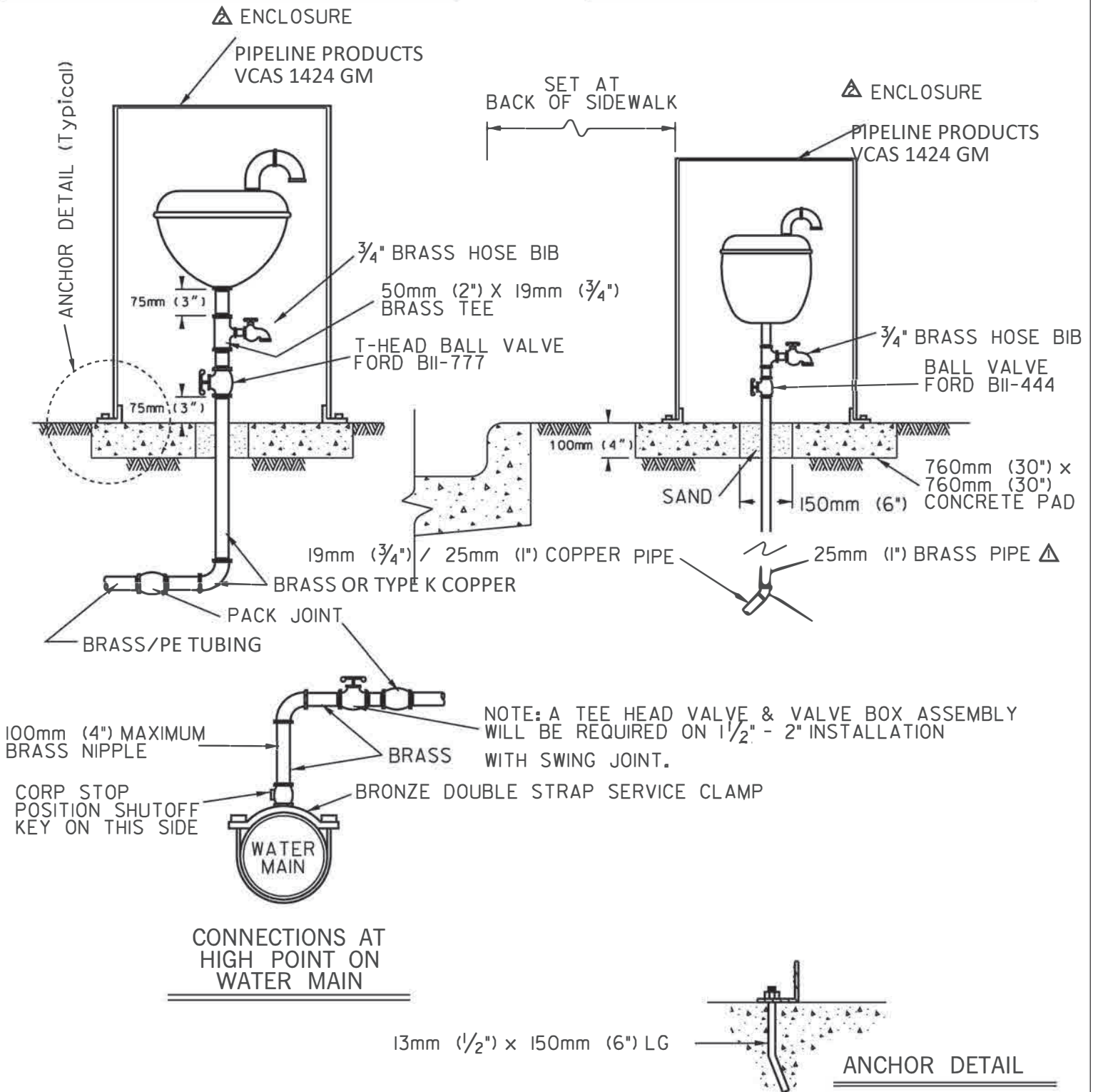
Drawing No. 104

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

2"-6" BLOWOFF INSTALLATION

2" COMBINATION AIR RELEASE
AND
VACUUM VALVE ASSEMBLY

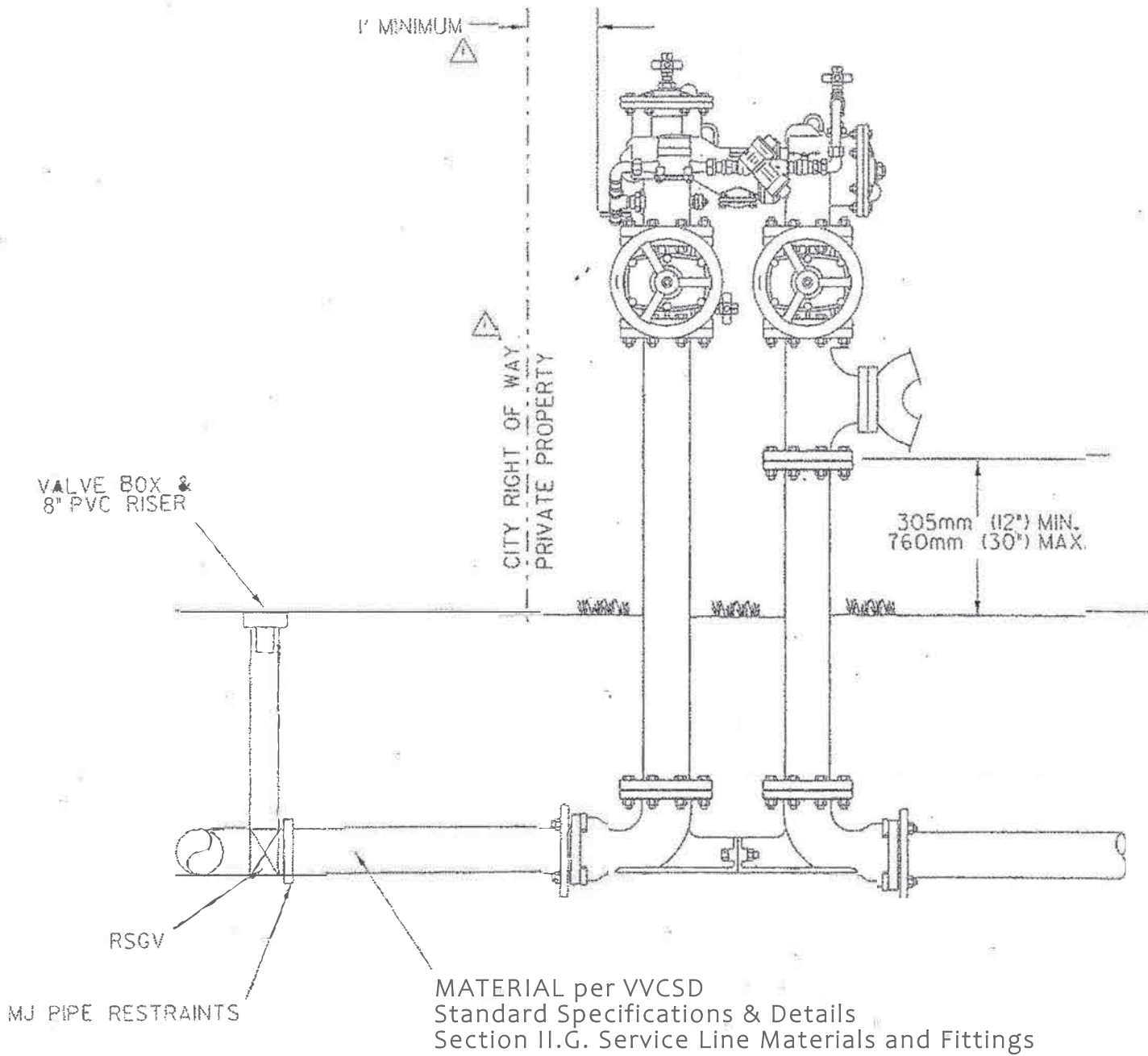
1" COMBINATION AIR RELEASE
AND
VACUUM VALVE ASSEMBLY



Drawing No. 105

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

COMBINATION AIR RELEASE VALVES



MATERIAL per VVCS
 Standard Specifications & Details
 Section II.G. Service Line Materials and Fittings

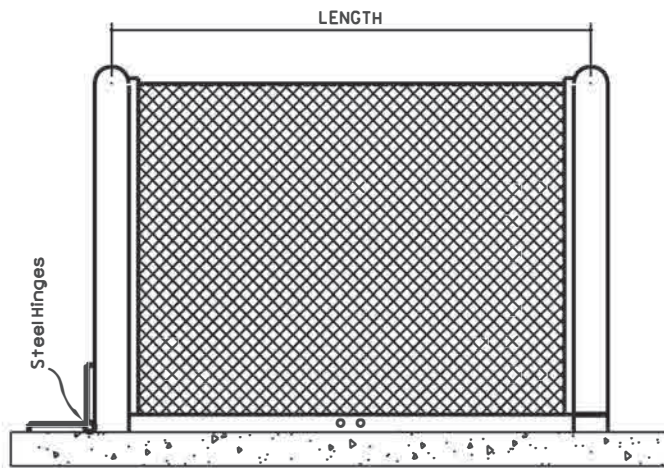
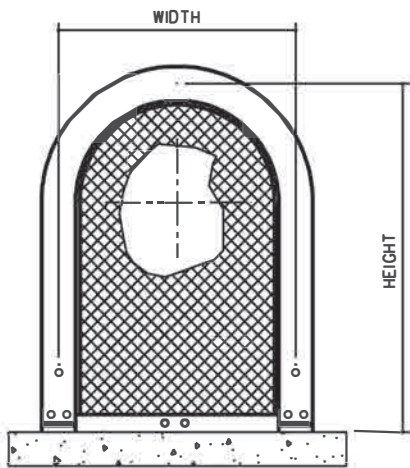
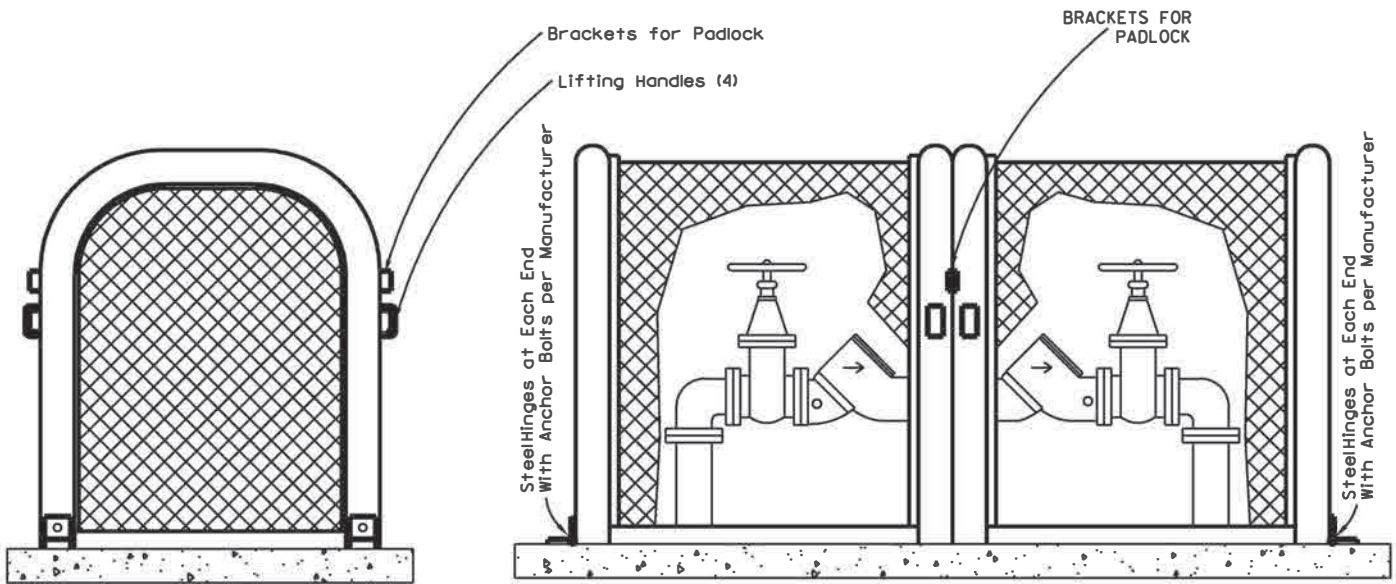
NOTE: ALL CROSS-CONNECTION CONTROL DEVICES MUST BE TESTED BY A CERTIFIED TESTER PRIOR TO FINAL INSPECTION.

455mm (18") MIN. CLEARANCE FROM NEAREST STRUCTURE

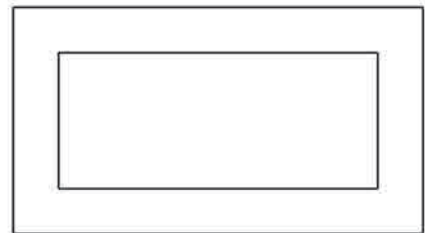
Drawing No. 106

VANDENBERG VILLAGE
 COMMUNITY SERVICES DISTRICT

3" 12" VERTICAL CROSS-CONNECTION
 CONTROL WET FIRE SPRINKLER SYSTEM
 WITH FIRE DEPARTMENT CONNECTION



Enclosures Installed when required on Plans



Minimum 4" Thick Concrete Pad

Guardshack EnclosuresTM
or Approved Equal

Drawing No. 107

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

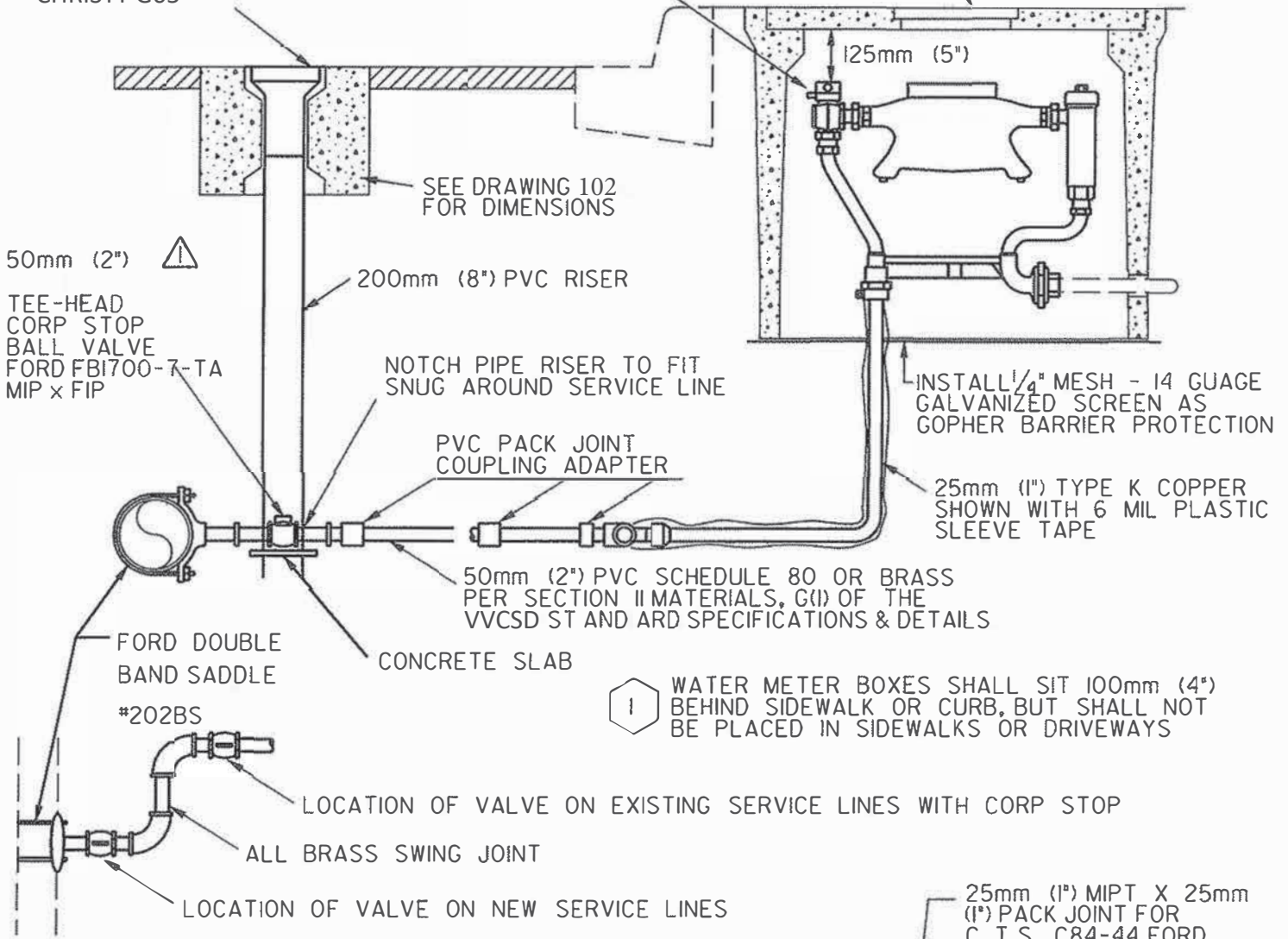
Backflow Prevention Device Enclosure

MARK	REVISIONS	APPR.	DATE

FORD ANGLE BALL COPPERSETTER
 PADLOCK WING DUAL CARTRIDGE CHECK
 VAL VE/INLET P.J./OUTLET DUAL PURPOSE

METERBOX PER VVCS D
 Standard Specifications & Details
 Section II.G. Service Line Materials and Fittings

CHRISTY G05



50mm (2") ⚠

TEE-HEAD
 CORP STOP
 BALL VALVE
 FORD FBI700-7-TA
 MIP x FIP

SEE DRAWING 102
 FOR DIMENSIONS

200mm (8") PVC RISER

NOTCH PIPE RISER TO FIT
 SNUG AROUND SERVICE LINE

PVC PACK JOINT
 COUPLING ADAPTER

50mm (2") PVC SCHEDULE 80 OR BRASS
 PER SECTION II MATERIALS, G(1) OF THE
 VVCS D ST AND ARD SPECIFICATIONS & DETAILS

INSTALL 1/4" MESH - 14 GAUGE
 GALVANIZED SCREEN AS
 GOPHER BARRIER PROTECTION

25mm (1") TYPE K COPPER
 SHOWN WITH 6 MIL PLASTIC
 SLEEVE TAPE

FORD DOUBLE
 BAND SADDLE

CONCRETE SLAB

#202BS

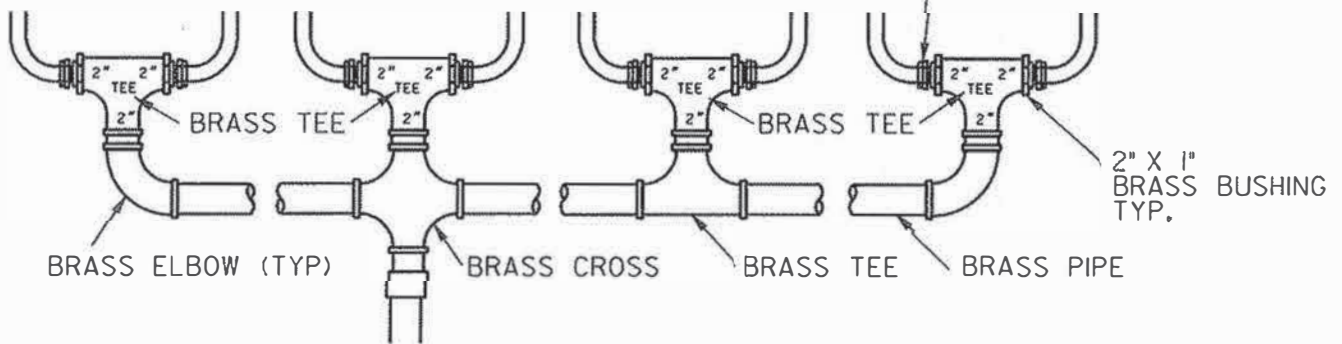
Ⓛ WATER METER BOXES SHALL SIT 100mm (4")
 BEHIND SIDEWALK OR CURB, BUT SHALL NOT
 BE PLACED IN SIDEWALKS OR DRIVEWAYS

LOCATION OF VALVE ON EXISTING SERVICE LINES WITH CORP STOP

ALL BRASS SWING JOINT

LOCATION OF VALVE ON NEW SERVICE LINES

25mm (1") MIPT X 25mm
 (1") PACK JOINT FOR
 C. T.S., C84-44 FORD



Drawing No. 108

VANDEMBERG VILLAGE
 COMMUNITY SERVICES DISTRICT

1", 2 - 8 METER MANIFOLD

1-1/2" & 2" SERVICE METER INSALLATION

NOTE:
Connections between Meter and Backflow Assembly are not permitted.

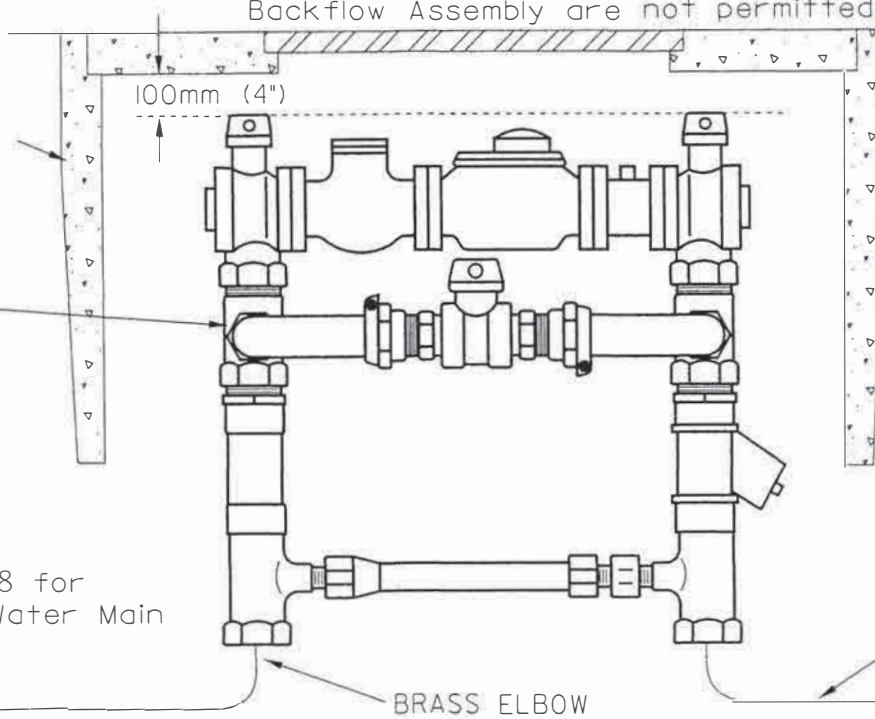


BOX per WCSD Standard Specifications.

1/2" OR 2" FORD CUSTOM COPPER SETTER

BRASS
See Drawing #108 for Connection to Water Main

TO MAIN



R.P. DEVICE

WHEN REQUIRED

TYPE "L" COPPER

PVC

1-1/2" & 2" TURBINE METER INSTALLATION IRRIGATION

R.P. DEVICE



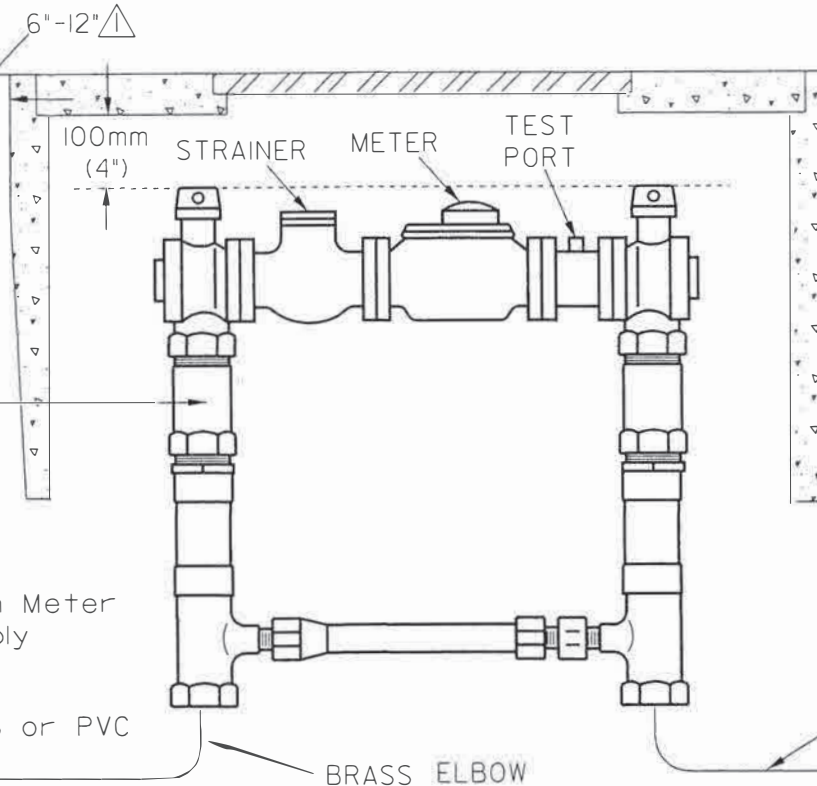
Typical Sidewalk

NOTE: After landscaping is completed the box may require concrete retaining wall around it.

1/2" OR 2" FORD CUSTOM COPPER SETTER WITHOUT BY-PASS

NOTE:
Connections between Meter and Backflow Assembly are not permitted.

BRASS or PVC
TO MAIN



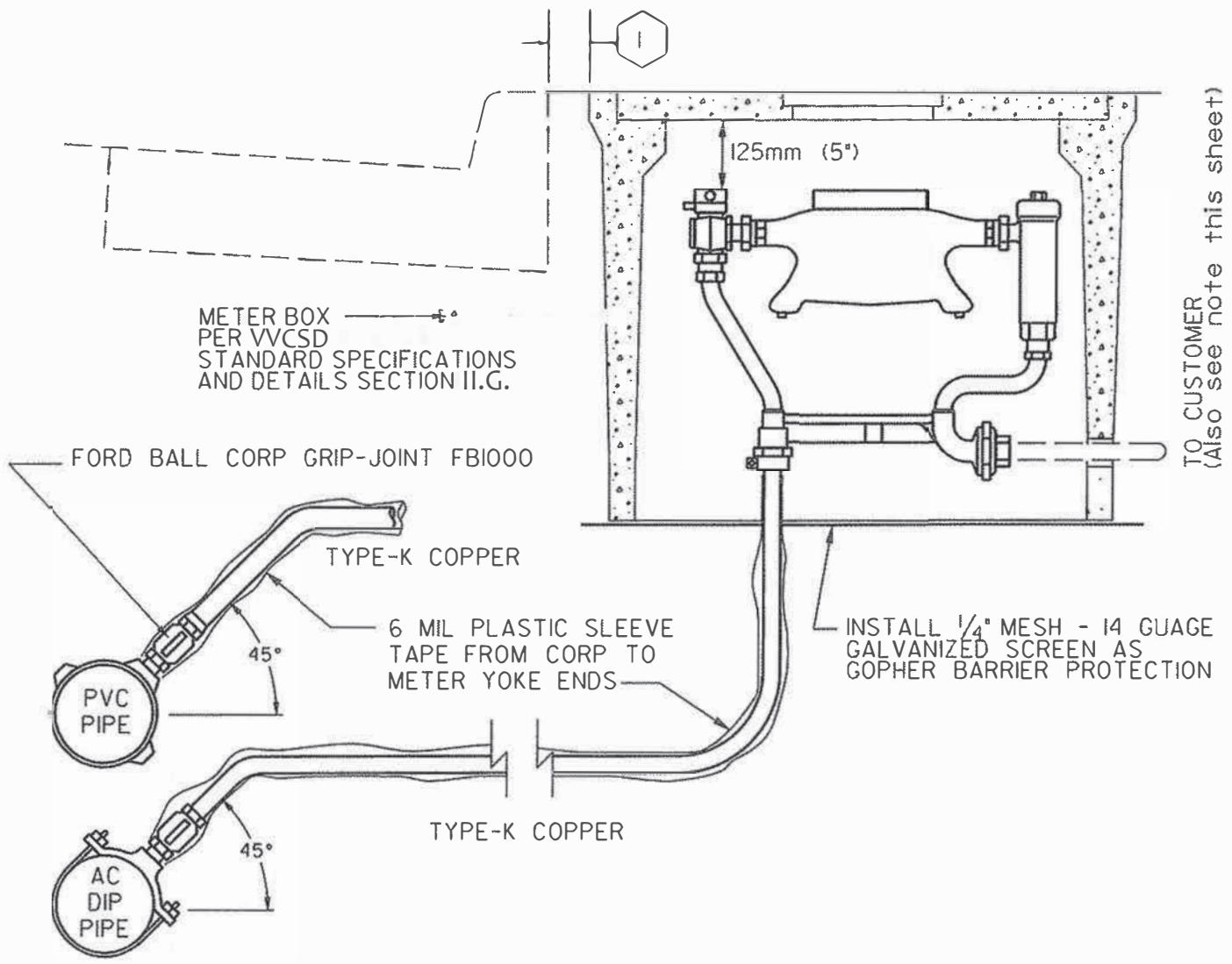
TYPE "L" COPPER

PVC

Drawing No. 109

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

1 1/2" & 2" SERVICE AND METER
INSTALLATION



TO CUSTOMER
(Also see note this sheet)

SERVICE SADDLES ARE PER VVCS STANDARD SPECIFICATIONS & DETAILS SECTION II.G.

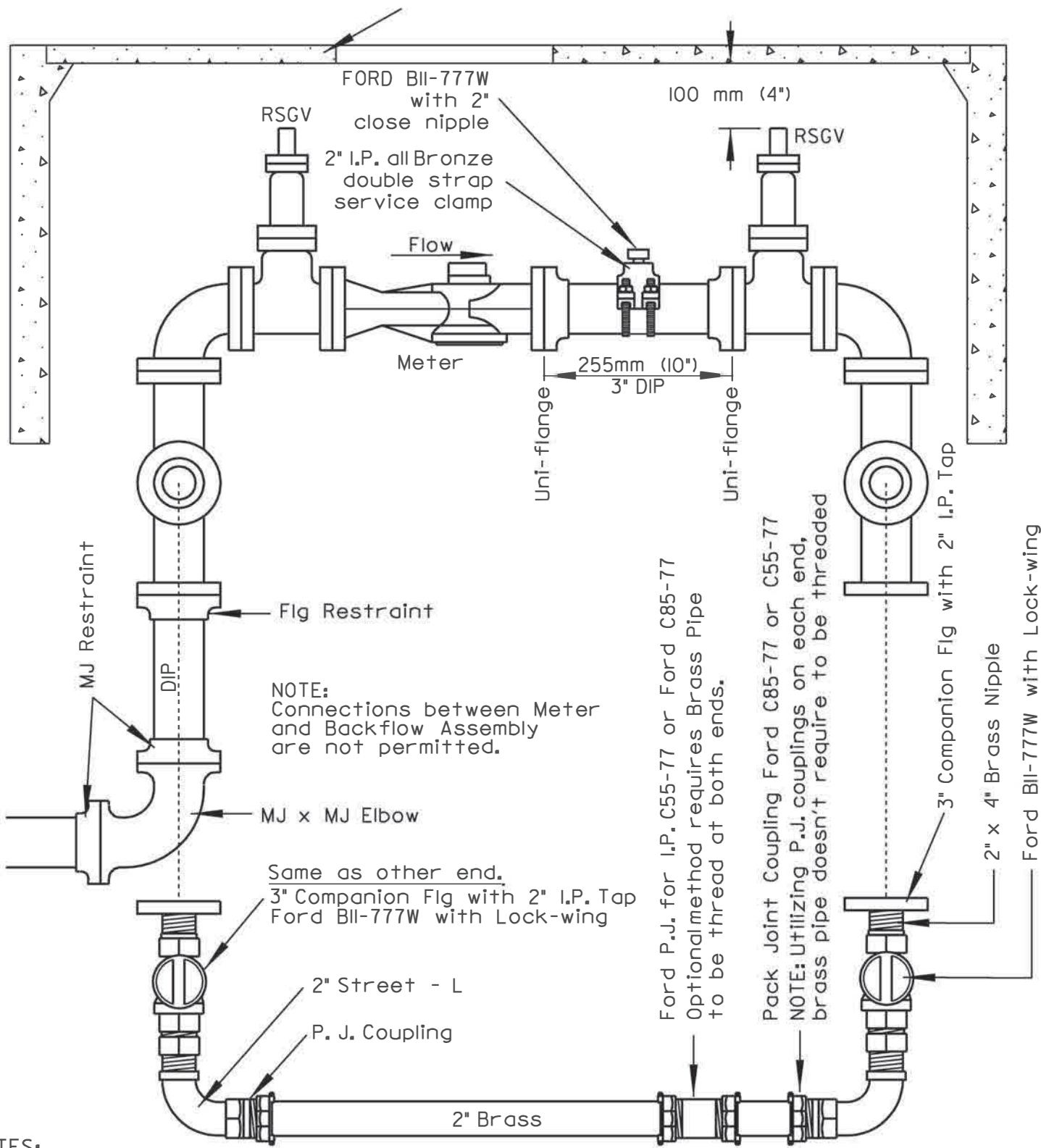
⬡ WATER METER BOXES SHALL SIT 100mm (4") BEHIND SIDEWALK OR CURB, BUT SHALL NOT BE PLACED IN SIDEWALKS OR DRIVEWAYS

⚠ TYPE "L" COPPER MUST BE USED BETWEEN METER YOKE AND BACKFLOW DEVICE WHEN BACKFLOW DEVICE IS INSTALLED.

Drawing No. 110

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

1" WATER SERVICE CONNECTION



NOTE:
Connections between Meter
and Backflow Assembly
are not permitted.

Ford P.J. for I.P. C55-77 or Ford C85-77
Optional method requires Brass Pipe
to be threaded at both ends.

Pack Joint Coupling Ford C85-77 or C55-77
NOTE: Utilizing P.J. couplings on each end,
brass pipe doesn't require to be threaded

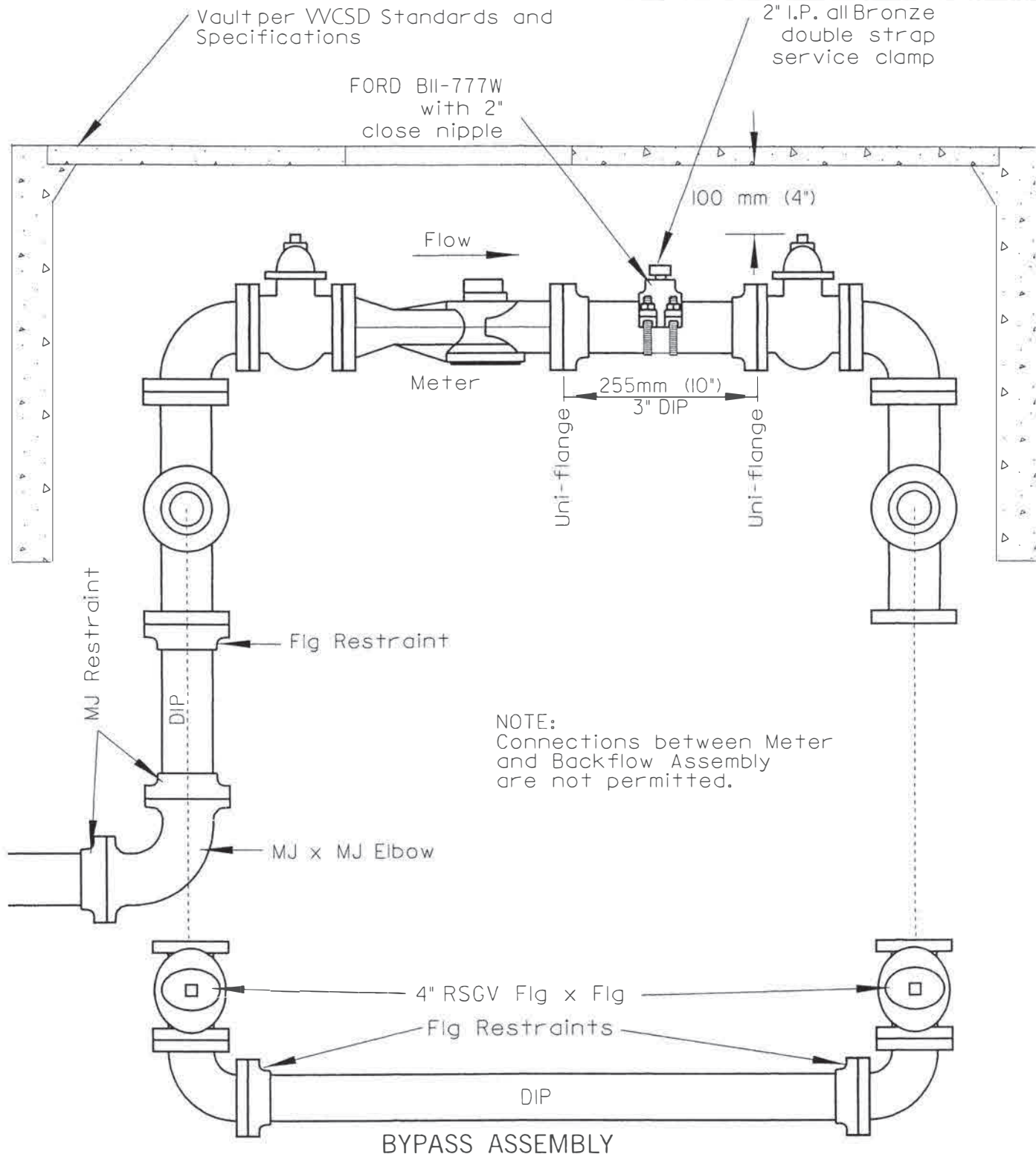
NOTES:
Gate Valves 3" through 20" shall meet all requirements of AWWA C550 and AWWA C509 for
"Resilient-Wedge Gate Valves" and be approved by the District

Drawing No. 111

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

3" METER WITH BY-PASS

MARK	REVISIONS	APPR.



NOTE:
Connections between Meter and Backflow Assembly are not permitted.

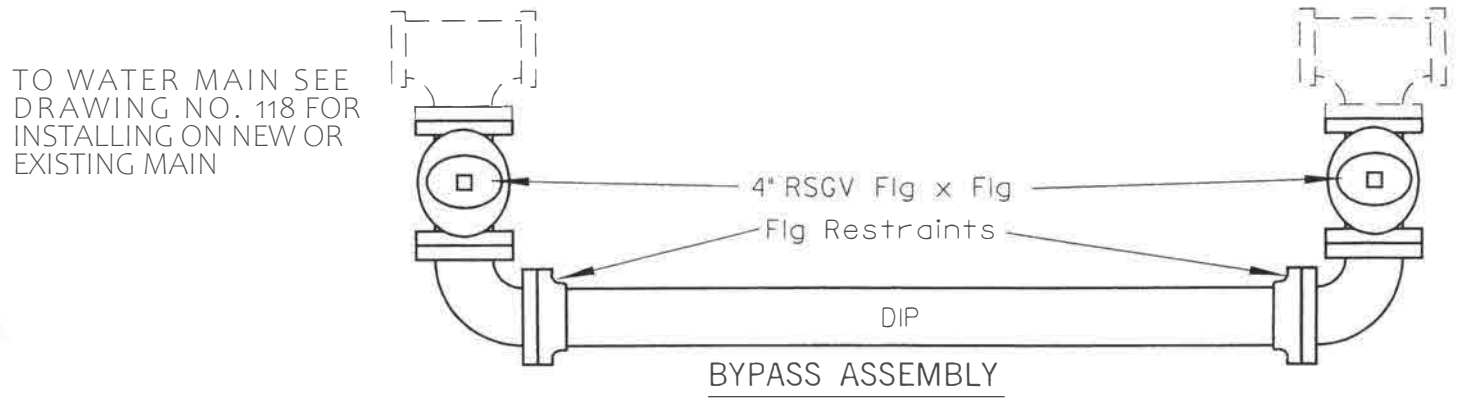
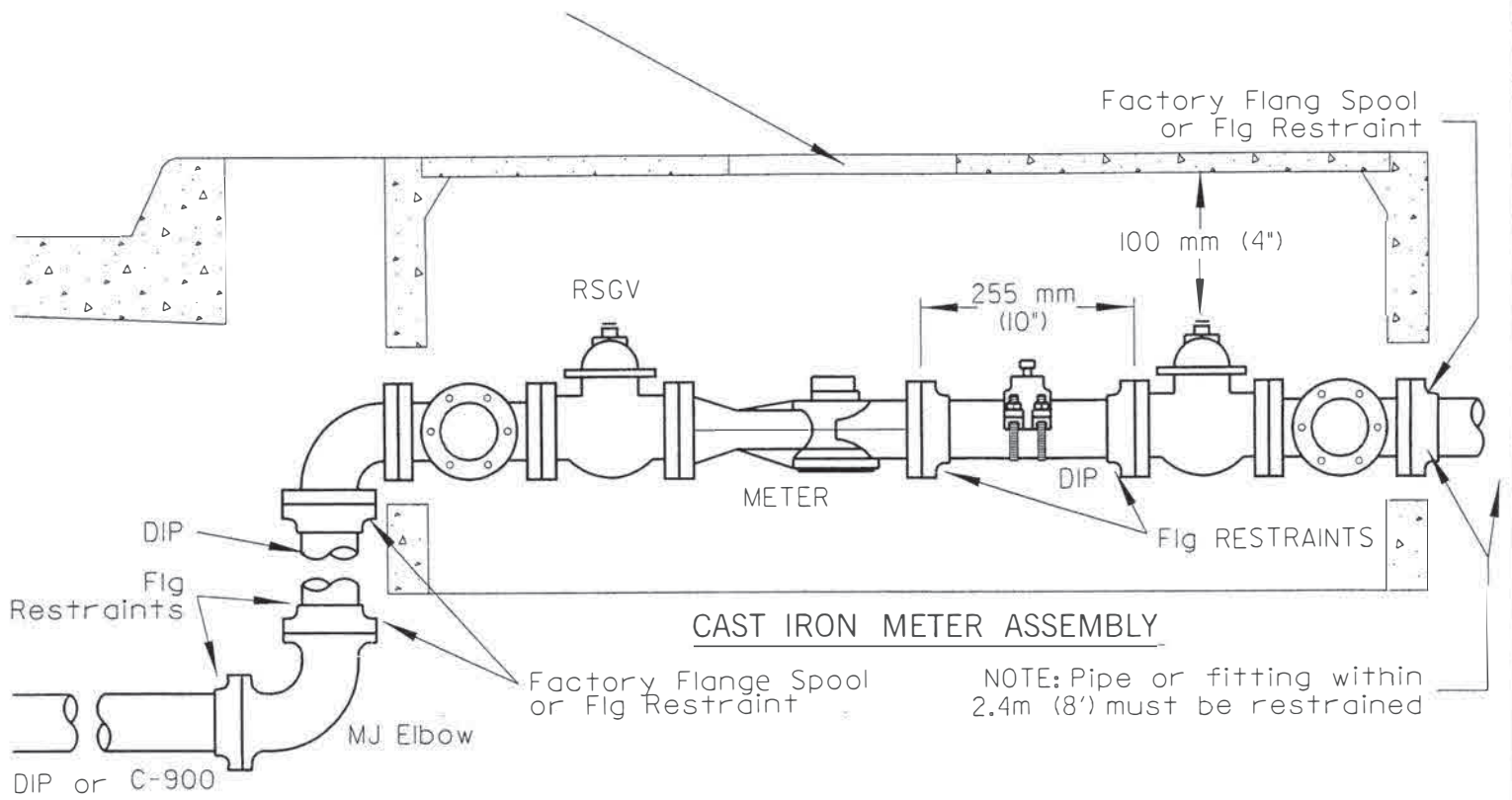
NOTES:

Gate Valves 3" through 20" shall meet all requirements of AWWA C550 and AWWA C509 for "Resilient-Wedge Gate Valves" and be approved by the District

Drawing No. 112-1

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

4" METER WITH BY-PASS



NOTES

1. Gate Valves 3" through 20" shall meet all requirements of AWWA C550 and AWWA C509 for "Resilient-Wedge Gate Valves" and be approved by the District
2. Use brass bolts on meter flanges. All other bolts and nuts are to be low carbon steel and conform to ASTM A 307 GRADE.
3. Connections between Meter and Backflow Assembly are not permitted.

Drawing No. 112-2

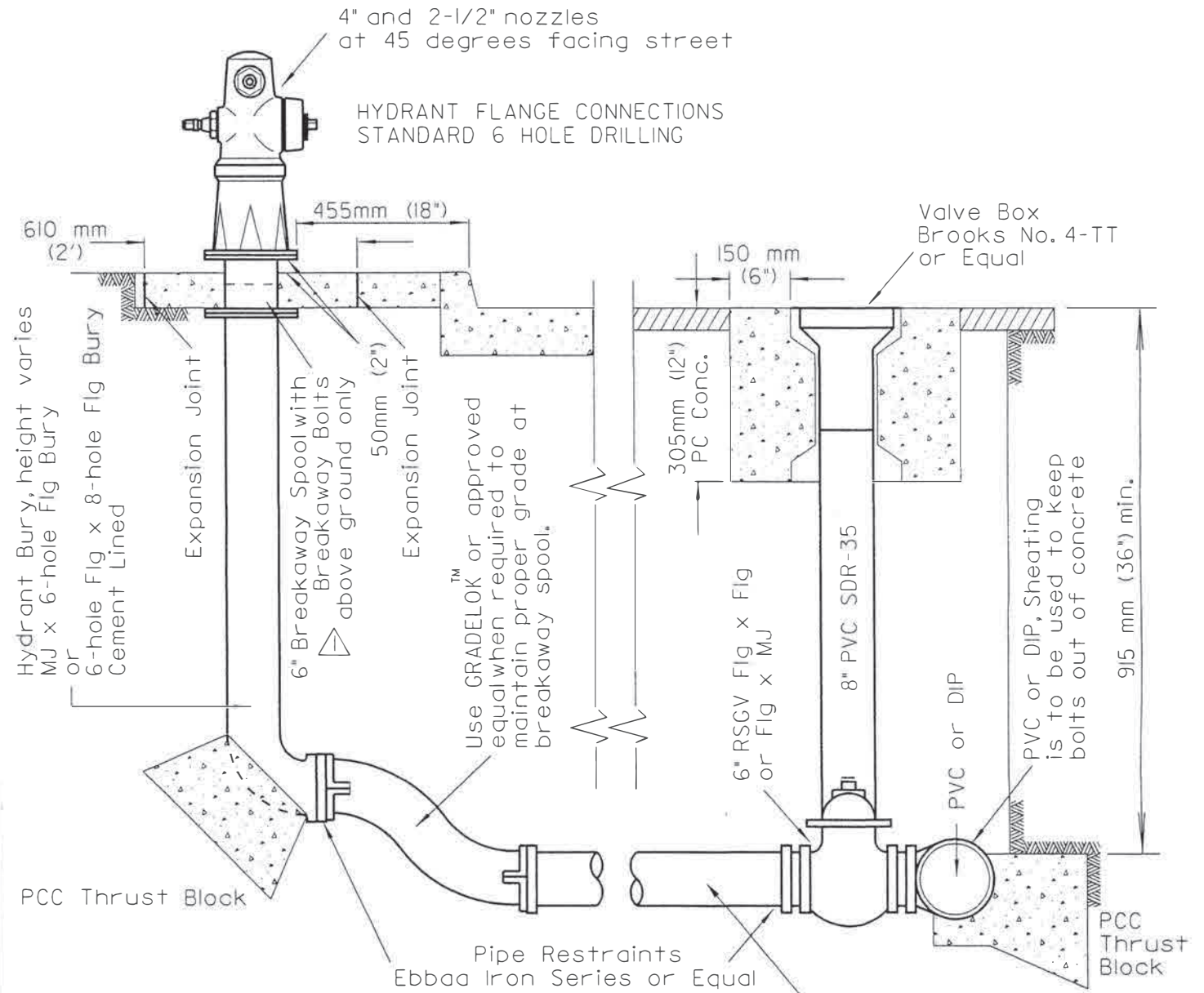
VANDEMBERG VILLAGE
COMMUNITY SERVICES DISTRICT

6" SERVICE INSTALLATION w/By-Pass

Residential Hydrants shall be all bronze construction with a 6 hole flanged inlet, one 4" national standard thread outlet and one 2-1/2" national standard thread outlet. They shall be manufactured with removable stem support inserts, swivel disc assembly (no cotter pins), 1-1/8" Pentagon Operating Nuts and Bronze Caps. **JONES J-4040**



Commercial Hydrants shall be same as #1 except with one 4" national standard thread outlet and two 2-1/2" National standard thread outlets. **JONES J-4060**



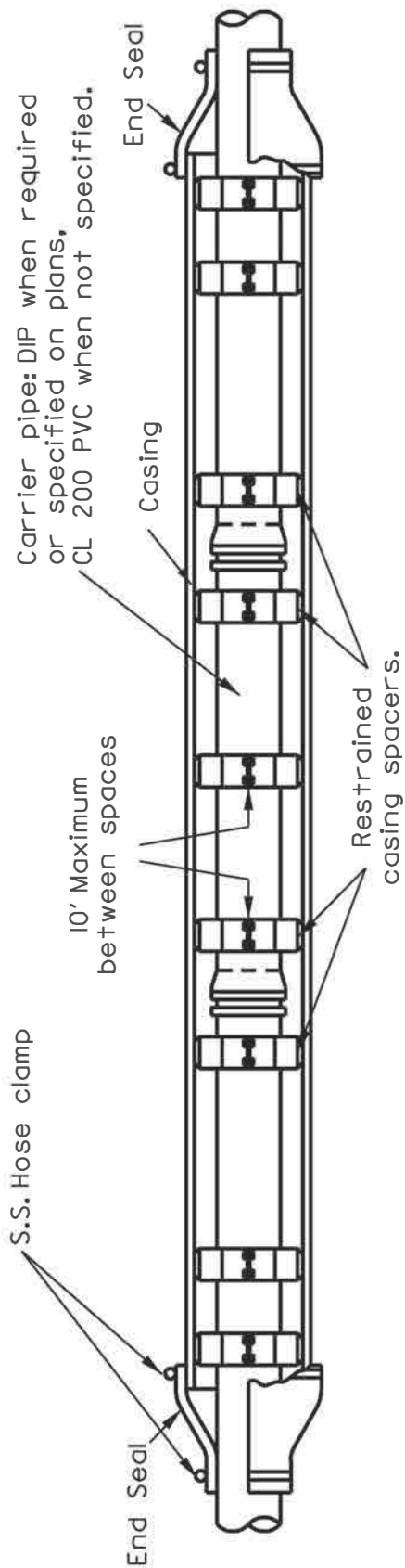
NOTE: On long Hydrant runs use tracer wire and stub to flange bolts.

Material per VVCSD Standard Specifications & Details Section II.G. - Service Line Materials and Fittings

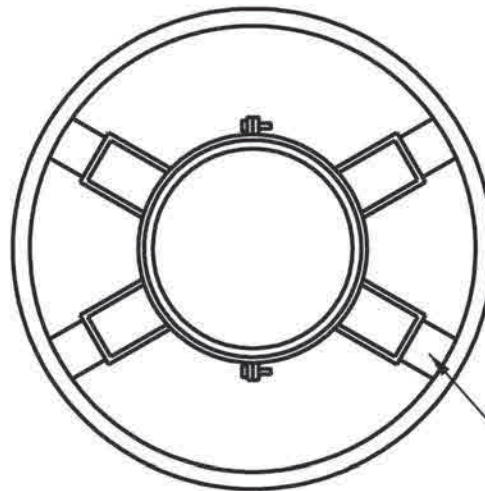
Drawing No. 113

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

HYDRANT INSTALLATION



TYPICAL CASING SPACER CONFIGURATION



Runners - Ultra high molecular weight polymer

Drawing No. 115

VANDBERG VILLAGE
COMMUNITY SERVICES DISTRICT

TYPICAL CASING SPACER
CONFIGURATION

MARK	REVISIONS	APPR.

Department of Health Services, State of California

Criteria for the Separation of Water Mains and Sanitary Sewers

Case 1 - New wastewater line installation with new or existing water main.

Case 2 - New water installation with existing wastewater line.

Construction Criteria

Case 1: New wastewater line being installed. Special construction required for:

Zone Wastewater Line

A Wastewater lines parallel to water mains shall not be permitted in this zone without approval from the responsible Health Agency and Water Supplier.

B A wastewater line placed parallel to a water main shall be constructed of:

1. Extra strength vitrified clay pipe with compression joints.
2. Class 4000, Type II, Asbestos-Cement pipe with rubber gasket joints.
3. Plastic Wastewater Pipe with rubber ring joints (per ASTM D3034) or equivalent.
4. Cast of Ductile Iron pipe with compression joints.
5. Reinforced Concrete Pressure Pipe with compression joints (per AWWA C302-74).

C A Wastewater Line crossing a Water Main shall be constructed of:

1. Ductile Iron Pipe with Hot Dip Bituminous Coating and Mechanical Joints.
2. A continuous section or Class 200 (DR14 per AWWA C900) Plastic Pipe or equivalent, centered over the pipe being crossed.
3. A continuous section of Reinforced Concrete Pressure Pipe (per AWWA C302-74) centered on the pipe being crossed.
4. Any Wastewater Pipe within a continuous sleeve.

D A Wastewater Line crossing a Water Main shall be constructed of:

1. A continuous section of Ductile iron Pipe with Hot Dip Bituminous Coating.
2. A continuous section or Class 200 (DR14 per AWWA C900) Plastic Pipe or equivalent, centered over the pipe being crossed.
3. A continuous section of Reinforced Concrete Pressure Pipe (per AWWA C302-74) centered on the pipe being crossed.
4. Any Wastewater Pipe within a continuous sleeve.
5. Any Wastewater Pipe separated by a 3.05 m (10') by 3.15 m (10'), 100 mm (4") thick reinforced concrete slab.

Drawing No. 117

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

SEPARATION REQUIREMENTS
FOR
SEWER AND WATER LINES

MARK	REVISIONS	APPR.	DATE

Department of Health Services, State of California

Criteria for the Separation of Water Mains and Sanitary Sewers

Case 2:

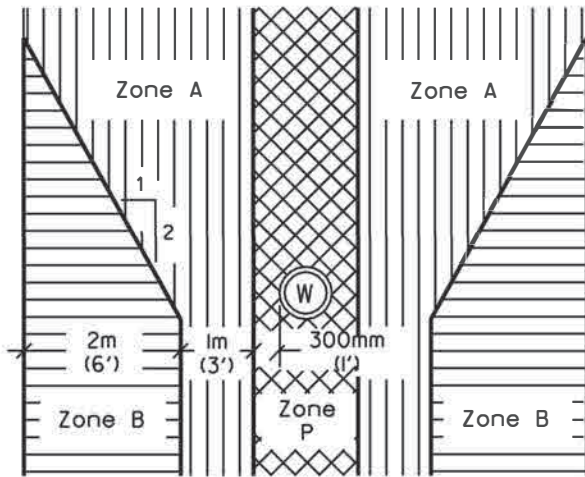
Zone Special Construction Requirements

- A No Water Mains parallel to Wastewater Lines shall be constructed without approval from the responsible health Agency.
- B If the Wastewater Line paralleling the Water Main does not meet the Case I, Zone B requirements, the Water Main shall be constructed of:
1. Ductile Iron Pipe with Hot Bituminous coating.
 2. Dipped and Wrapped 6 mm (1/4 inch) thick Welded Steel Pipe.
 3. Class 200, Type II, Asbestos Cement Pressure Pipe.
 4. Class 200 Pressure Rated Plastic Water Pipe (DRI4 per AWWA C900) or equivalent.
 5. Reinforced Concrete Pressure Pipe, Steel Cylinder Type, per AWWA C300-74, or C301-79, or C303-70.
- C If the Wastewater Line crossing the Water Main does not meet the Case I, Zone C requirements, the Water Main shall have no joints in Zone C and be constructed of:
1. Ductile Iron Pipe with Hot Dip Bituminous Coating and Mechanical Joints.
 2. A continuous section or Class 200 (DRI4 per AWWA C900) Plastic Pipe or equivalent, centered over the pipe being crossed.
 3. A continuous section of Reinforced Concrete Pressure Pipe (per AWWA C302-74) centered on the pipe being crossed.
 4. Any Wastewater Pipe within a continuous sleeve.
- D If the Wastewater Line crossing the Water Main does not meet the requirements for Zone D, Case I, the Water Main shall have no joints within four-feet from either side of the wastewater line and shall be constructed of:
1. Ductile Iron Pipe Hot Dip Bituminous coating.
 2. Dipped and Wrapped 6 mm (1/4 inch) thick Welded Steel Pipe.
 3. Class 200 Pressure rated Plastic Water Main Pipe (DRI4 AWWA C900) or equivalent.
 4. Reinforced Concrete Pressure Pipe, Steel Cylinder Type, per AWWA C300-74, or C301-79, or C303-70.

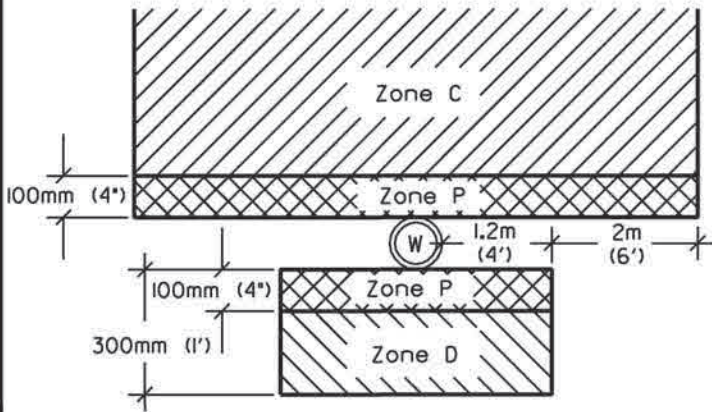
Drawing No. 117				VANDENBERG VILLAGE COMMUNITY SERVICES DISTRICT			
				SEPARATION REQUIREMENTS FOR SEWER AND WATER LINES			
MARK	REVISIONS	APPR.	DATE				

CASE 1 - NEW SEWER MAIN

PARALLEL



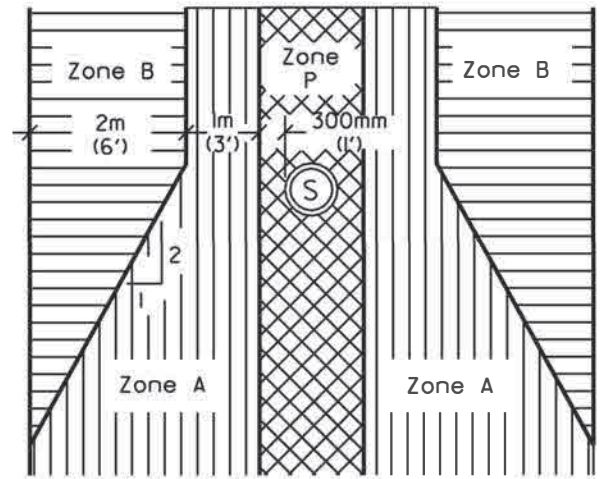
CROSSING



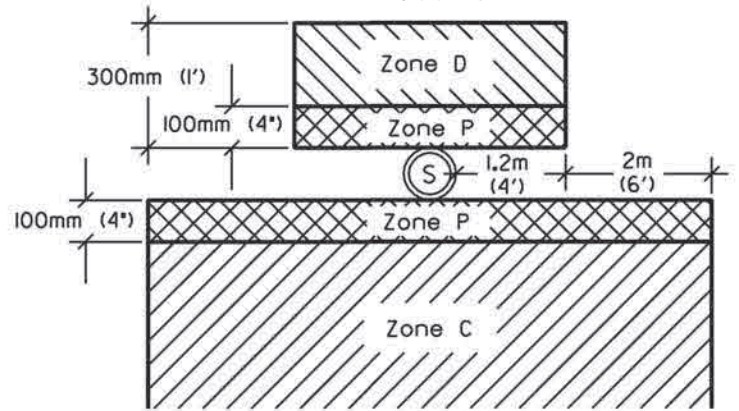
ZONE P is a prohibited zone,
Section 64630(e)(2), Title 22
California Administrative Code,

CASE 2 - NEW WATER MAIN

PARALLEL



CROSSING



ZONE P is a prohibited zone,
Section 64630(e)(2), Title 22
California Administrative Code,

DEFINITIONS

- HEALTH AGENCY - The Department of Health Services State of California. For water systems supplying fewer than 200 service connections. The local health officer shall act for the Department of Health Services.
- LOW HEAD WATER MAIN - Any water main which has a pressure of 5 P.S.I. (34.5 kPa) or less at any time at any point in the main.
- COMPRESSION JOINT - A push-on joint that seals by means of the compression of a rubber ring or gasket between the pipe and a bell or coupling.
- MECHANICAL JOINT - Bolted joints.
- RATED WORKING WATER PRESSURE or PRESSURE CLASS - A pipe classification system based upon internal working pressure of the fluid in the pipe, type of pipe material, and the thickness of the pipe wall.
- FUSED JOINT - The joining of sections of pipe using thermal or chemical bonding processes.
- SLEEVE - A protective tube of steel with a wall thickness of not less than 1/4" (6 mm) into which a pipe is inserted.
- GROUND WATER - Subsurface water found in the saturation zone.
- HOUSE LATERAL - A wastewater line connecting the building drain and the main wastewater line.

Drawing No. 117

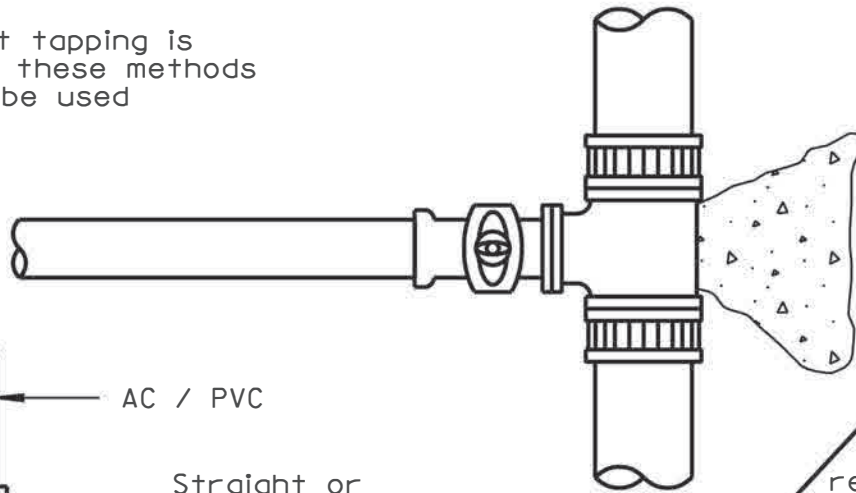
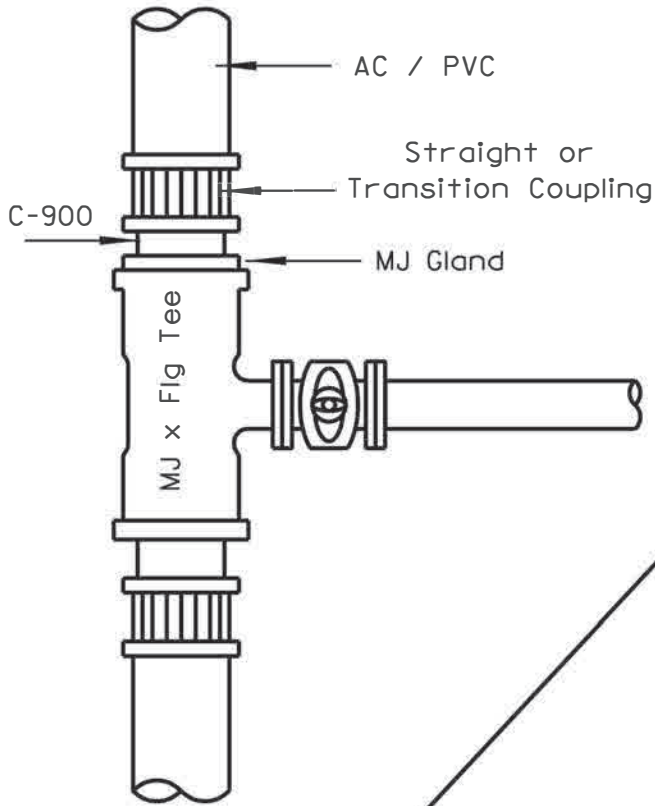
VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

CRITERIA FOR THE SEPARATION
OF WATER MAINS AND SANITARY SEWERS

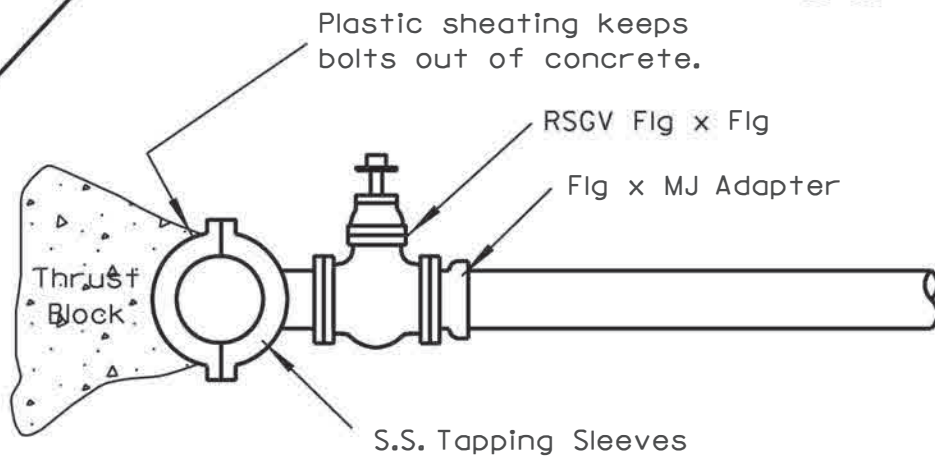
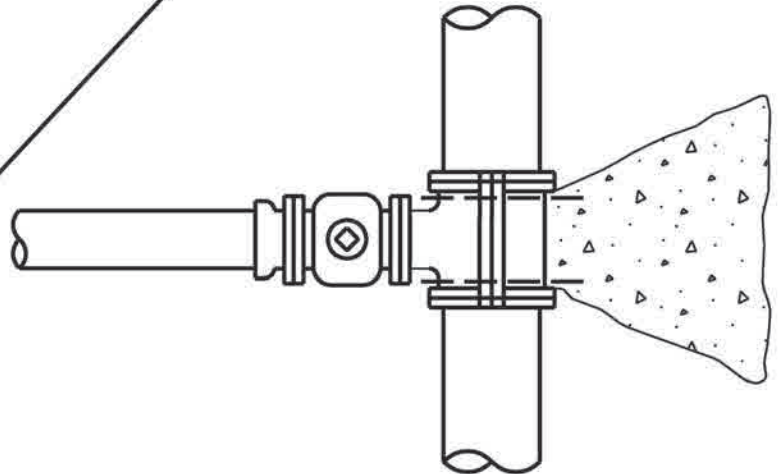
MARK	REVISIONS	APPR.	DATE
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NOTE: This drawing is for Fire Hydrant Fire Line,
Backflow and Service Connections

When hot tapping is
not possible these methods
can be used



NOTE: Hot tapping is
required when connecting
a new service branch
from existing main.
ie. Hydrant Run,
Backflow Assembly

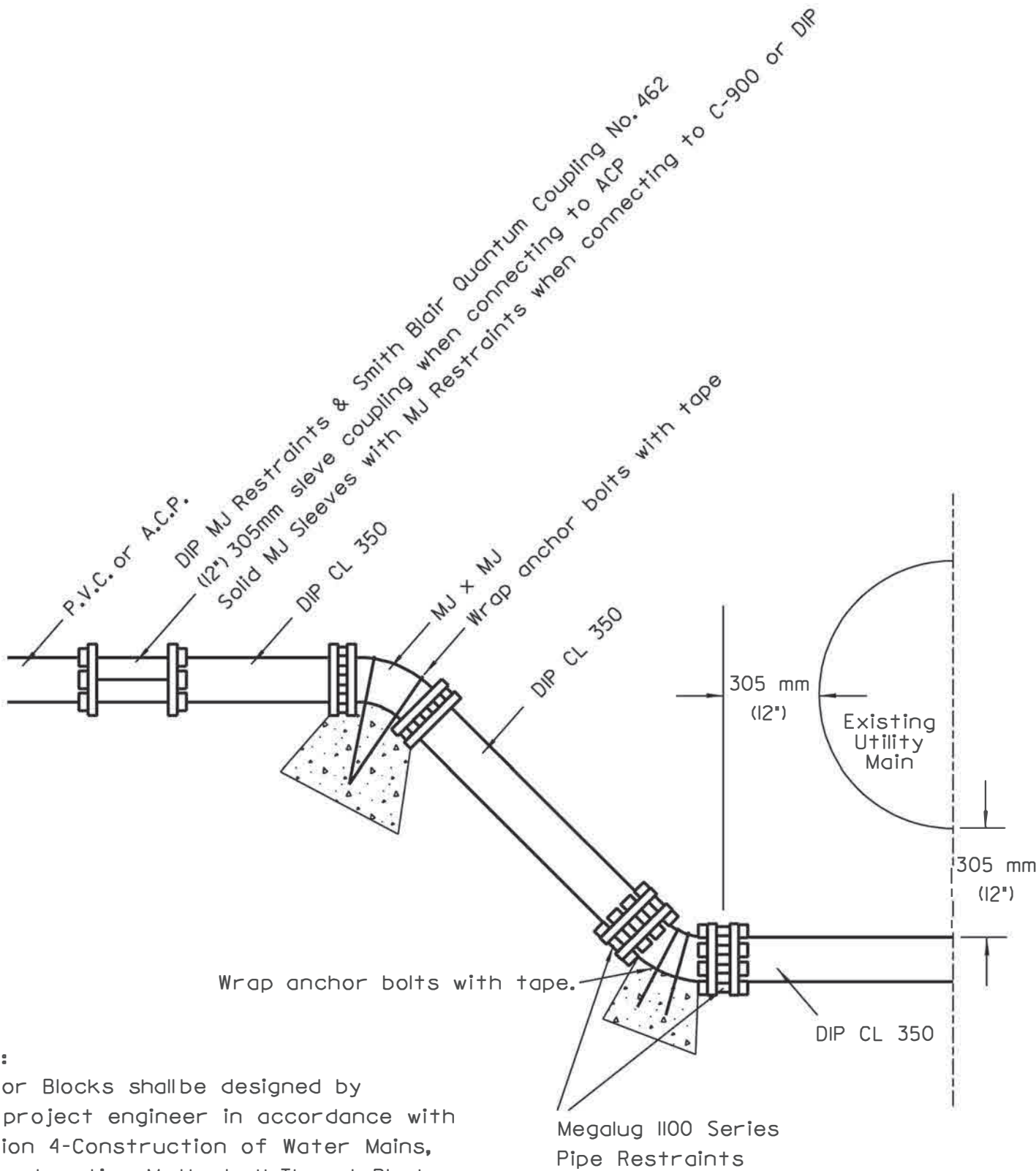


Drawing No. 118

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

3", 4" AND 6" CONNECTIONS
ON EXISTING PIPE

MARK	REVISIONS	APPR.



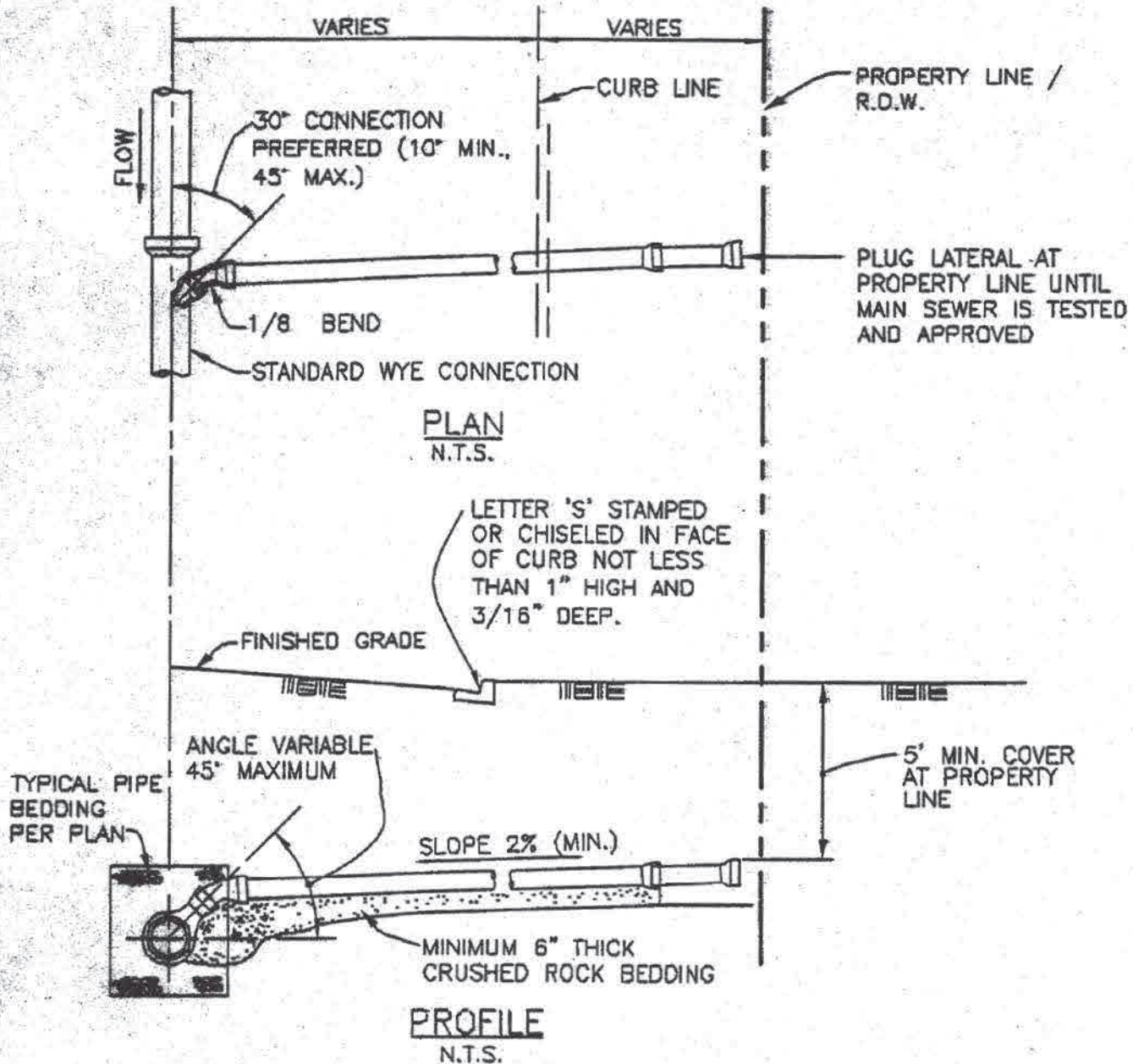
NOTE:
 Anchor Blocks shall be designed by the project engineer in accordance with Section 4-Construction of Water Mains, IV-Construction Methods, H-Thrust Blocks of the VVCS Standard Specifications & Details

Drawing No. 119

VANDENBERG VILLAGE
 COMMUNITY SERVICES DISTRICT

WATERLINE INVERT

MARK	REVISIONS	APPR.	DATE



NOTES

1. LATERAL CONNECTION TO THE SEWER MAIN SHALL NOT BE ON TOP OF THE PIPE.
2. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 1" PER FT. (2.00%).
3. ALL JOINTS ON SEWER LATERAL PIPE SHALL BE COMPRESSION TYPE OR AS APPROVED BY THE DISTRICT.
4. LATERAL SHALL EXTEND TO PROPERTY LINE OR AS DESIGNATED ON DRAWINGS.
5. THE LOCATION OF ALL LATERALS SHALL BE ACCURATELY SHOWN ON THE AS-BUILT DRAWINGS.

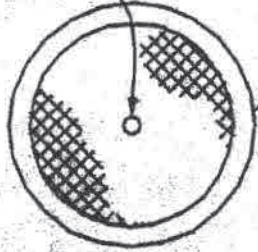
Drawing No. 200

**VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT**

STANDARD SEWER LATERAL

MARK	REVISIONS	APPR.	DATE
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MINIMUM OF
1" DIA. HOLE



CAST IRON
COVER

MATCH EXISTING A.C. OR
P.C. CONCRETE MATERIAL

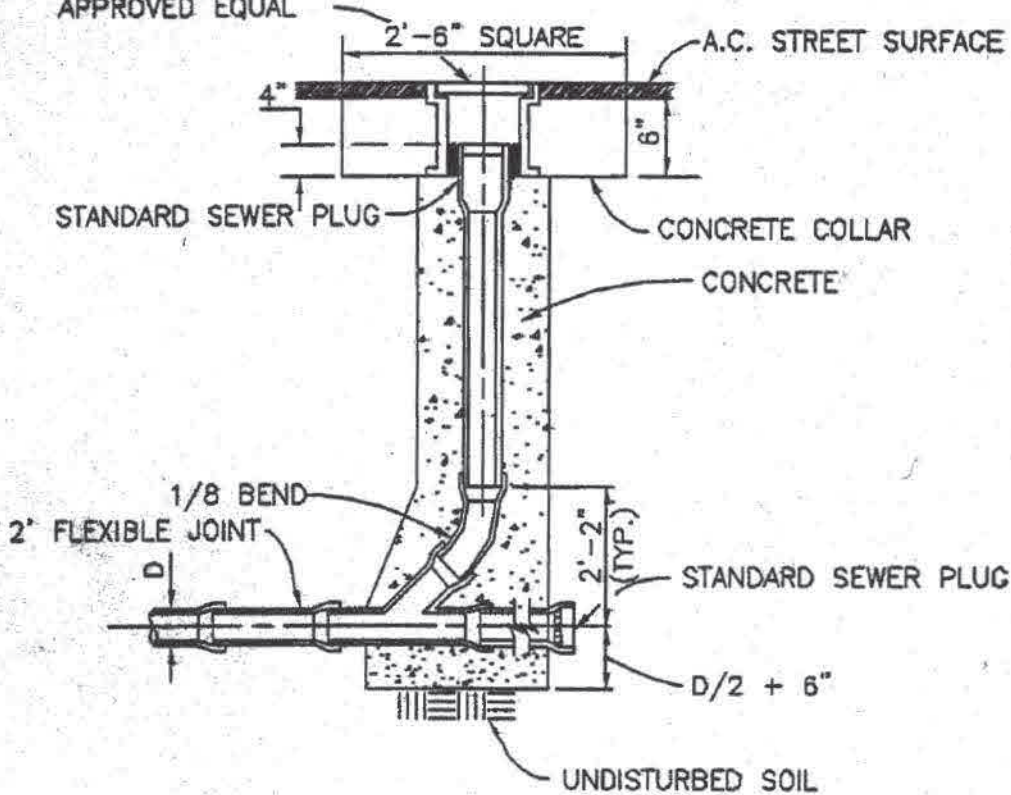
STANDARD SEWER
PLUG
CLEANOUT, FRAME,
& COVER

6" THICK
CONCRETE

CLEANOUT PIPE

EXPANSION JOINT
MATERIAL

ALHAMBRA FDRY. FRAME &
COVER A-1240 OR
APPROVED EQUAL



NOTES:

1. CONSTRUCT MANHOLE INSTEAD OF CLEANOUT WHEN LINE SIZE EXCEEDS 8"
2. CLEANOUT SHALL BE THE SAME MATERIAL AND THE SAME DIAMETER AS THE MAINLINE PIPE.

N.T.S.

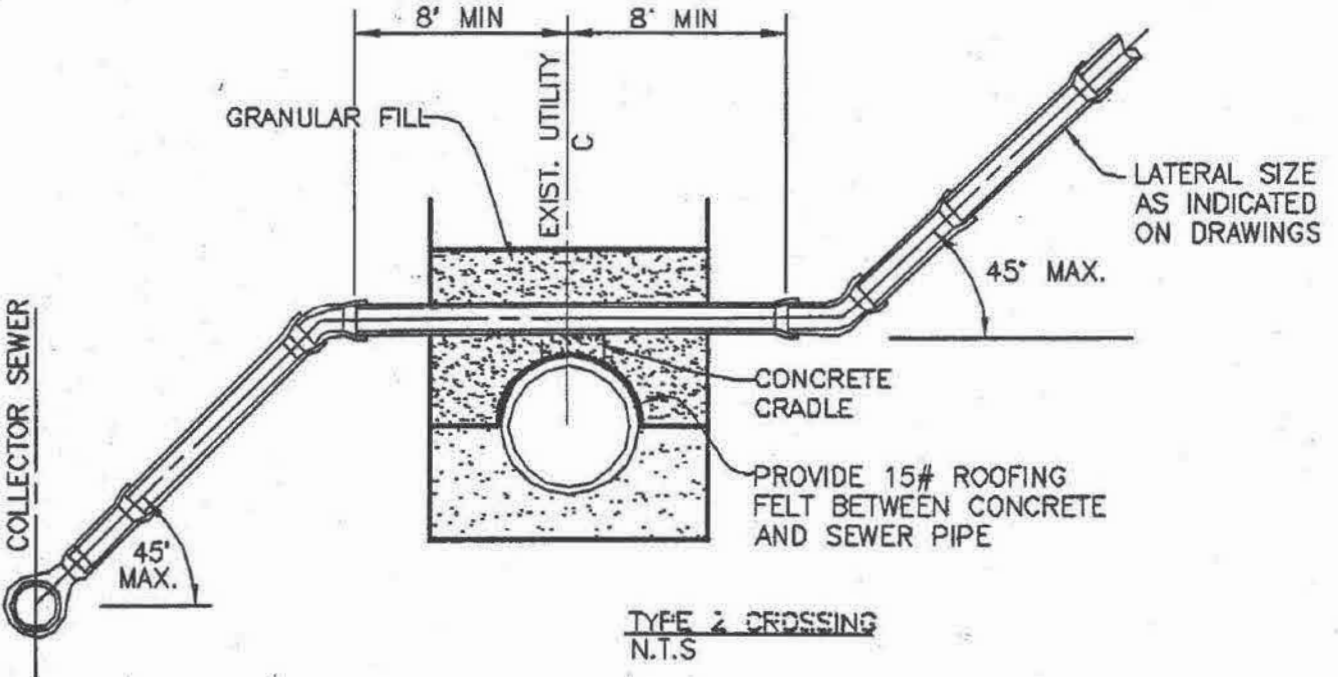
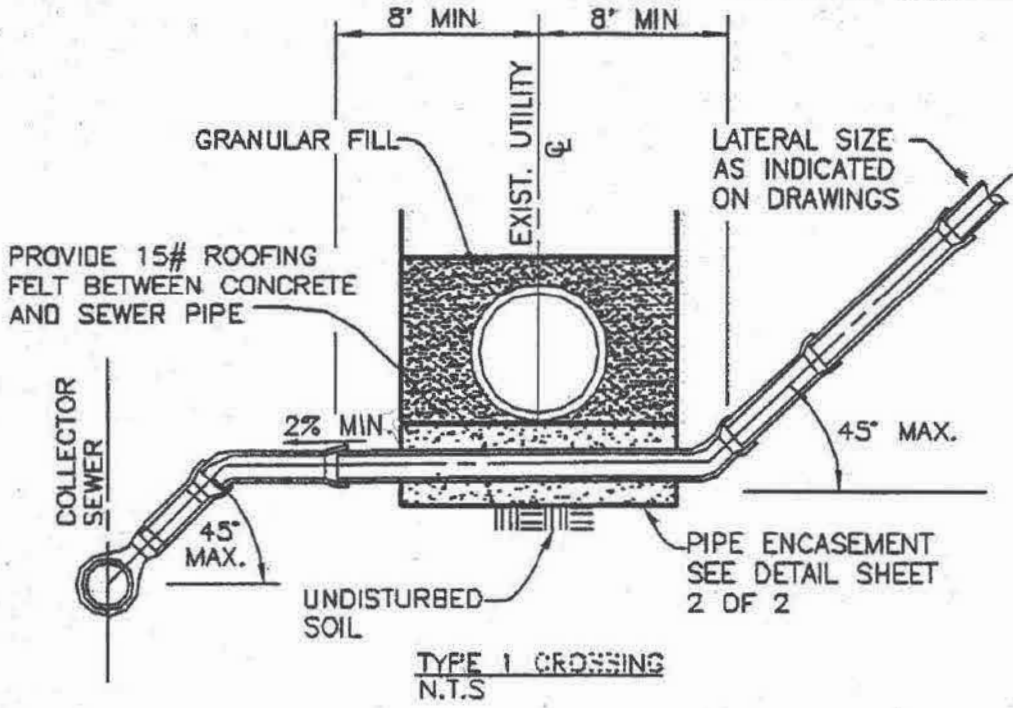
Drawing No. 201

**VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT**

**CLEANOUT FOR MAINLINE
CONSTRUCTION**

MARK	REVISIONS	APPR.	DATE

SHEET 1 OF 1



NOTES:

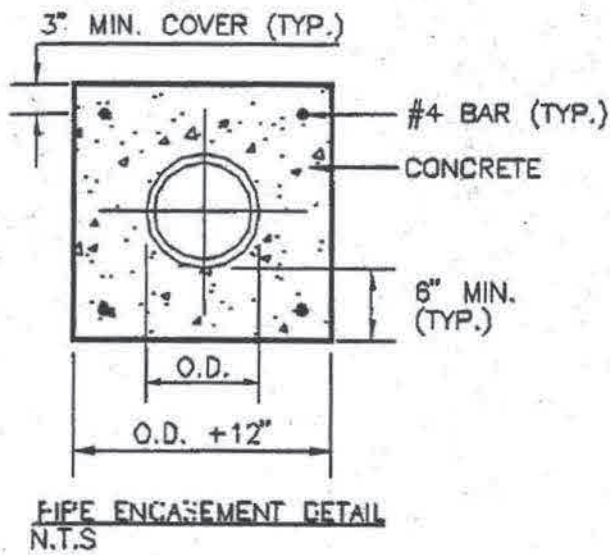
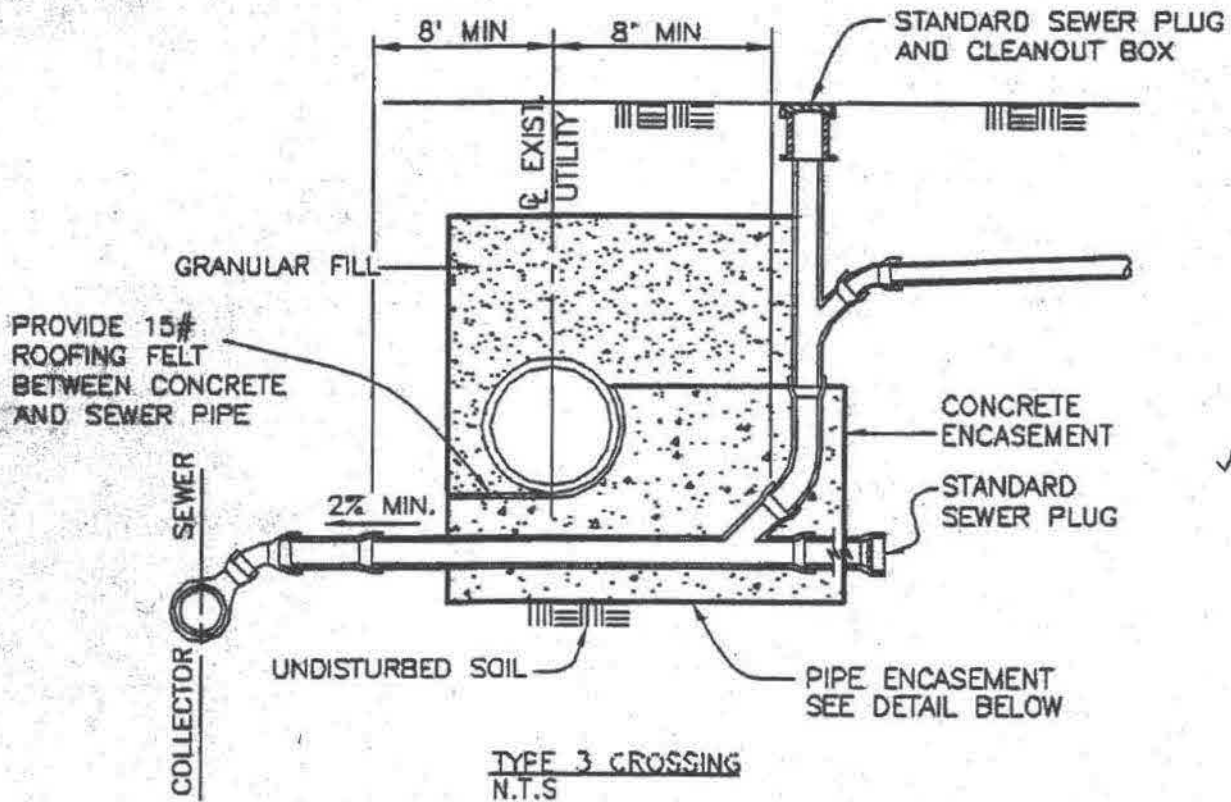
1. MINIMUM SLOPE FOR SEWER LATERALS SHALL BE 2%.
2. MINIMUM CLEARANCE BETWEEN SEWER LINES AND EXISTING PROPOSED STRUCTURES SHALL BE 6".
3. TYPE 3 CROSSING TO BE USED ONLY WHEN TYPE 1 AND 2 CROSSINGS DO NOT WORK.

Drawing No. 202

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

SEWER LATERAL AND UTILITY
CROSSING

MARK	REVISIONS	APPR.	DATE

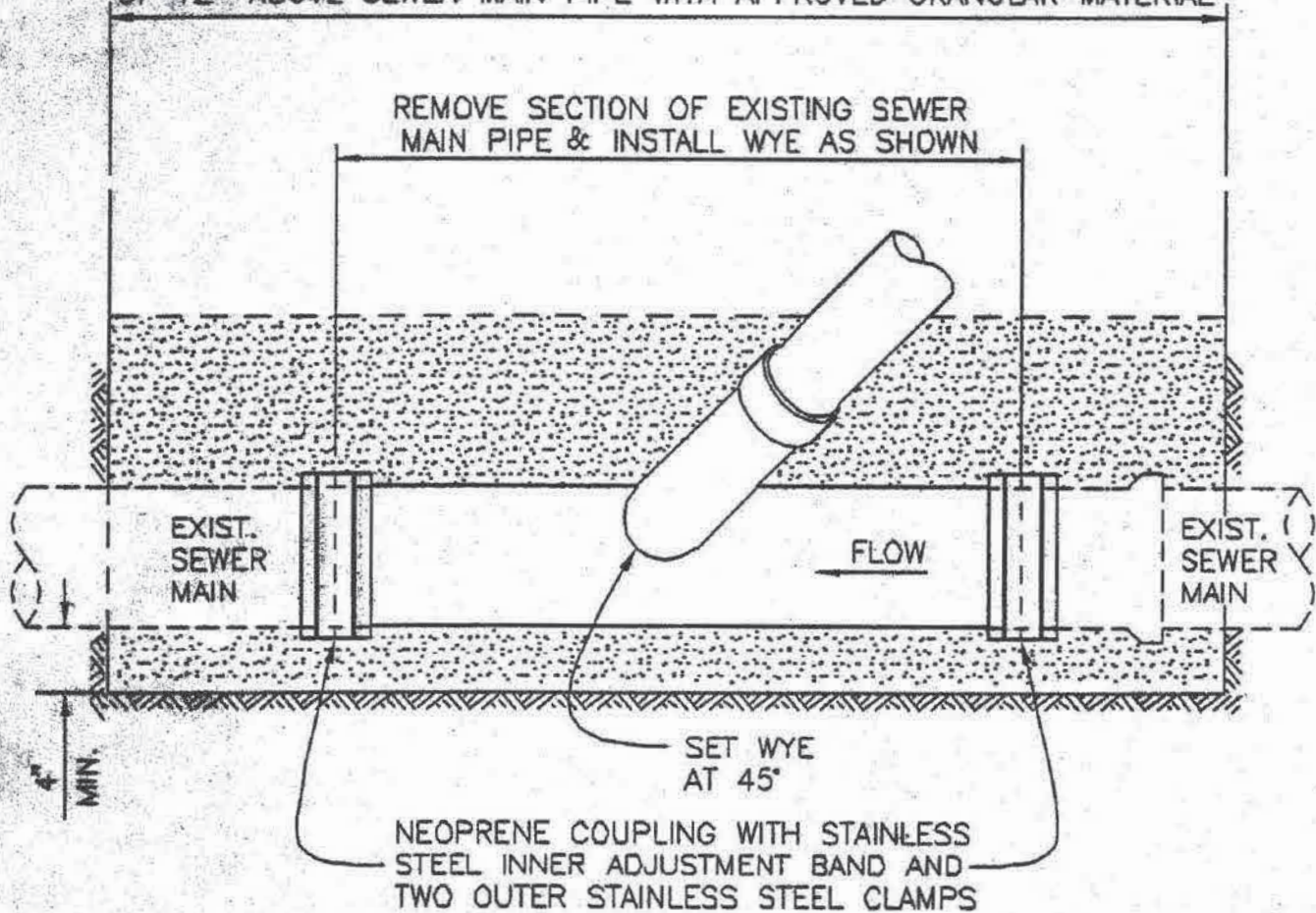


Drawing No. 202

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

SEWER LATERAL AND UTILITY
CROSSING

OVEREXCAVATE A MIN. OF 12" FROM COUPLING AND BACKFILL TO A MIN. OF 12" ABOVE SEWER MAIN PIPE WITH APPROVED GRANULAR MATERIAL



NOTE:
TAPPING TYPE WYE WILL NOT BE ALLOWED.

N.T.S.

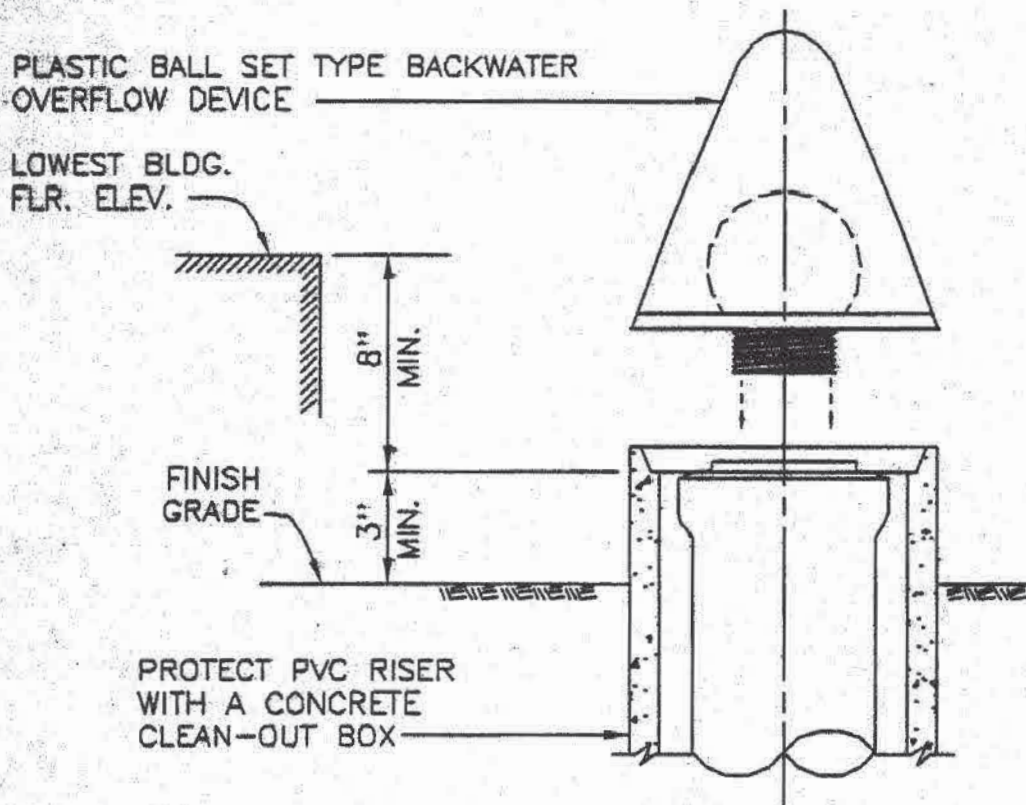
Drawing No. 203

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

WYE INSTALLATION IN EXISTING PIPE

SHEET 1 OF 1

MARK	REVISIONS	APPR.	DATE



NOTES:

1. A BACKWATER OVERFLOW DEVICE WILL BE REQUIRED WHENEVER THE LEVEL OF THE LOWEST FLOOR THAT HAS PLUMBING FIXTURES IS LOWER IN ELEVATION THAN THE FIRST UPSTREAM MANHOLE OR CLEANOUT ON THE SEWER MAIN TO WHICH THE LATERAL CONNECTS.
2. THE OVERFLOW DEVICE SHALL BE INSTALLED AT THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER. UNLESS OTHERWISE AUTHORIZED BY DISTRICT MANAGER/DISTRICT ENGINEER.

N.T.S.

Drawing No. 204

**VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT**

BACKFLOW PREVENTION DEVICE

MARK	REVISIONS	APPR.	DATE
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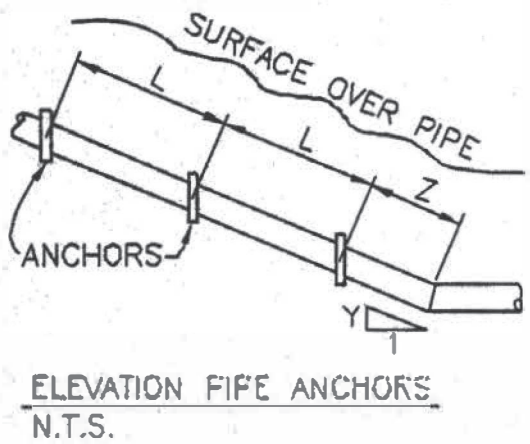
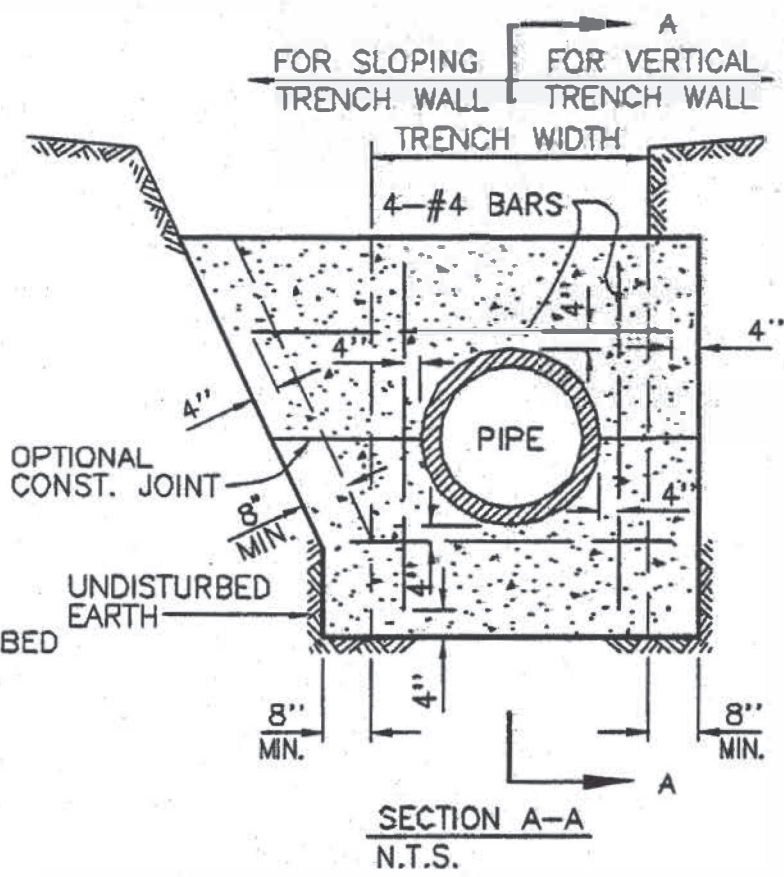
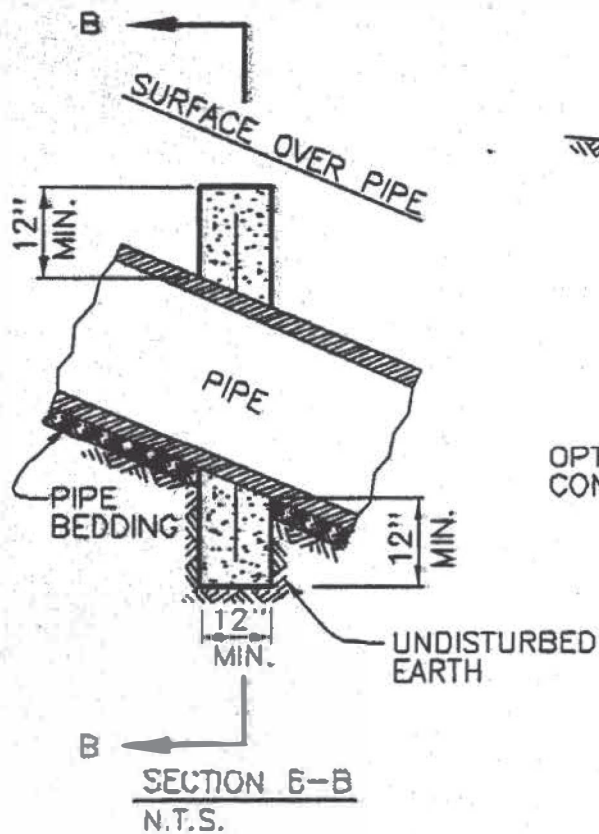


TABLE A

PIPE SLOPE (%) Y:1(100)	L DISTANCE (MAX.)	Z DISTANCE (MAX.)
100	12'	4'
67	14'	8'
50	16'	12'
40	18'	18'
33	20'	20'

NOTES:

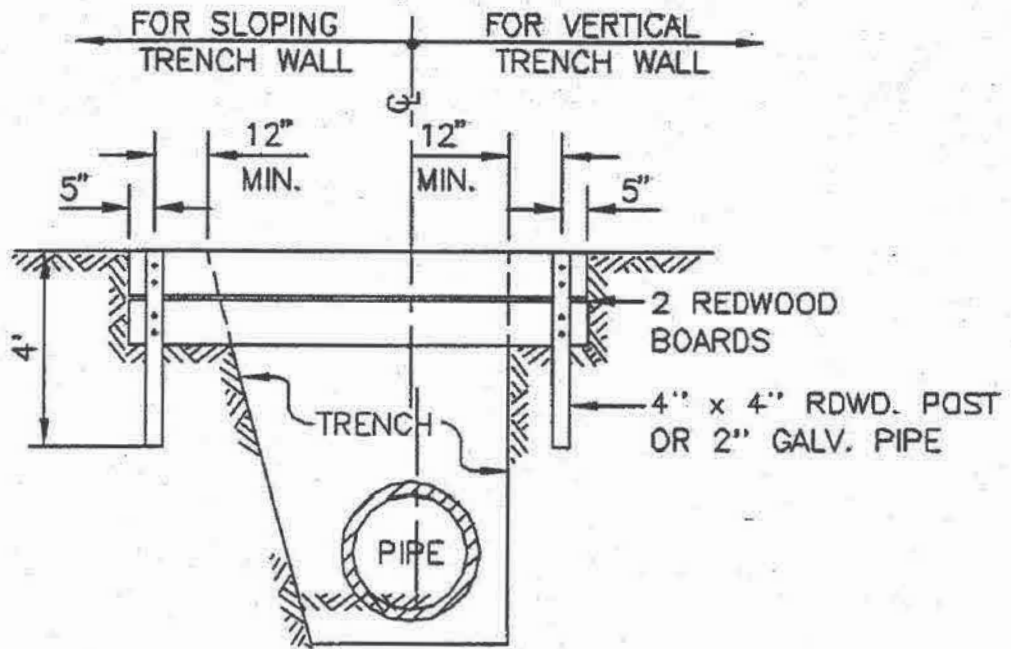
1. ANCHORS SHALL BE CONCRETE.
2. FOR CLAY PIPE, ANCHORS SHALL NOT BE PLACED WITHIN 6" OF THE PIPE JOINT.
3. TRENCH SHALL BE BACKFILLED PER STANDARD SPECIFICATIONS.
4. SPACING OF ANCHORS FOR PIPE SLOPES BETWEEN VALUES SHOWN IN TABLE "A" MAY BE PROPORTIONED.

Drawing No. 205

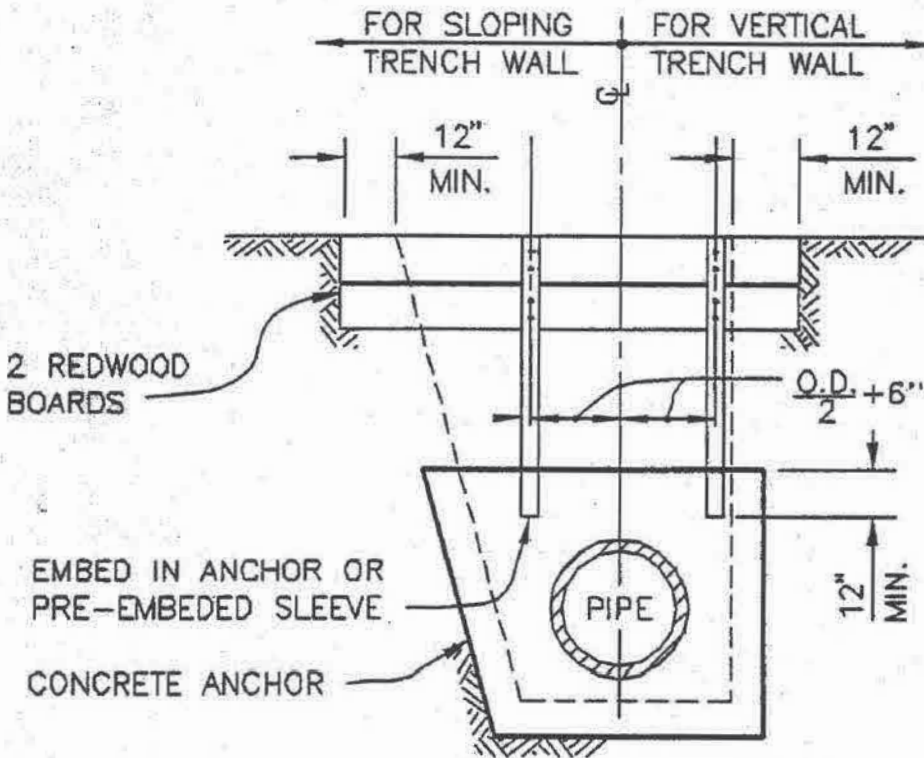
VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

PIPE ANCHORS FOR SLOPES

MARK	REVISIONS	APPR.	DATE



ALTERNATE 1 - SECTION C-C
N.T.S.



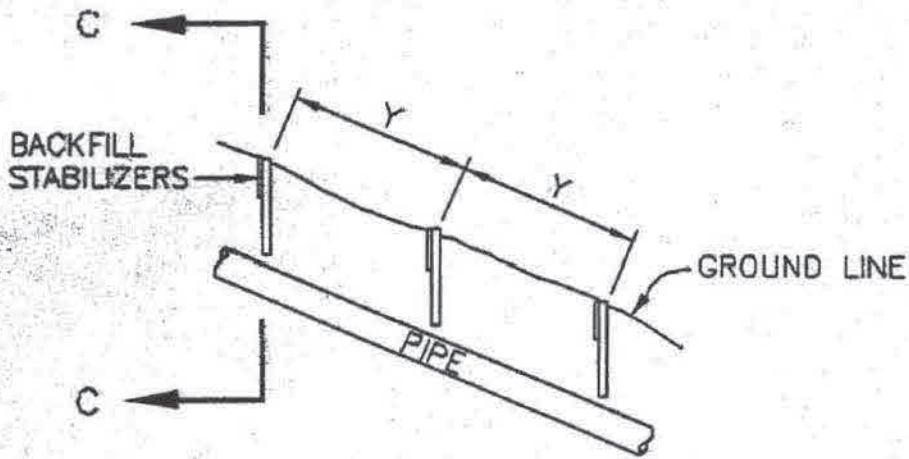
ALTERNATE 2 - SECTION C-C
N.T.S.

Drawing No. 206

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

BACKFILL STABILIZERS FOR SLOPES

MARK	REVISIONS	APPR.	DATE



ELEVATION BACKFILL STABILIZERS

TABLE B

GROUND SLOPE X:1	Y SPACING (MAX.)
1:1	5'
1 1/2:1	9'
2:1	12'
2 1/2:1	16'
3:1	20'

NOTES:

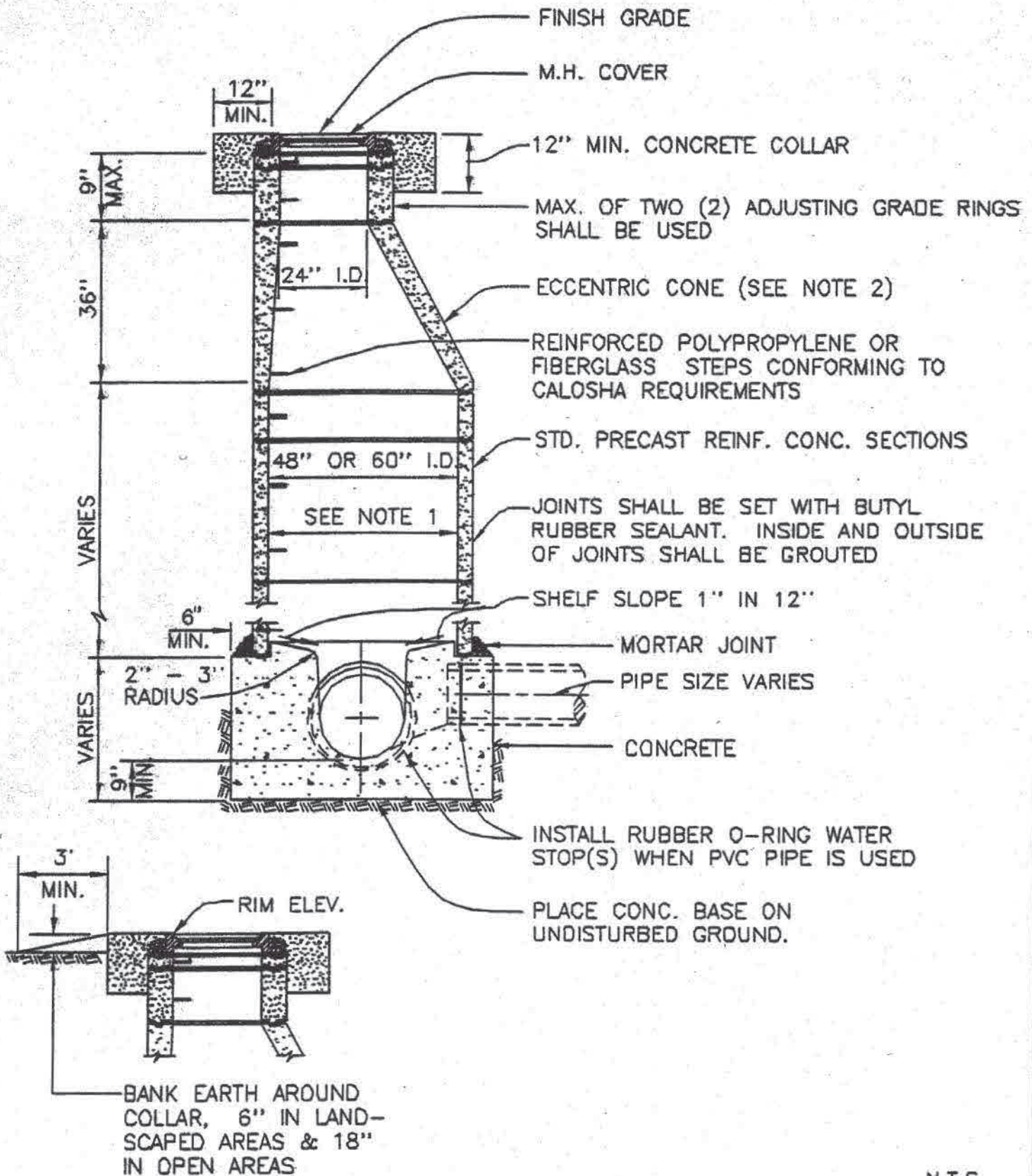
1. REDWOOD BOARDS SHALL BE 2" x 12" WHERE DEPTH OF COVER OVER PIPE PERMITS. OTHERWISE USE 2" x 10".
2. REDWOOD BOARDS SHALL BE PLACED ON THE HIGH GROUND SIDE OF THE POSTS.
3. EACH REDWOOD BOARD SHALL BE FASTENED BY USING 2-16d NAILS TO EACH REDWOOD POST OR A 3/8 INCH BOLT AND NUT WITH WASHERS TO EACH GALVANIZED PIPE. ALL HARDWARE SHALL BE GALVANIZED.
4. TRENCH BACKFILL SHALL BE CONSOLIDATED BY MECHANICAL COMPACTION. IN LIEU OF MECHANICAL COMPACTION, SOIL CEMENT MAY BE USED. HOWEVER, THE TOP 12" OF BACKFILL SHALL BE NATIVE SOIL, MECHANICALLY COMPACTED.
5. SPACING OF STABILIZERS FOR GROUND SLOPES BETWEEN VALUES SHOWN IN TABLE "B" MAY BE PROPORTIONED.
6. THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE DOUGLAS FIR FOR THE REDWOOD PROVIDED IT HAS BEEN TREATED WITH PRESERVATIVES.

Drawing No. 206

**VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT**

BACKFILL STABILIZERS FOR SLOPES

MARK	REVISIONS	APPR.	DATE
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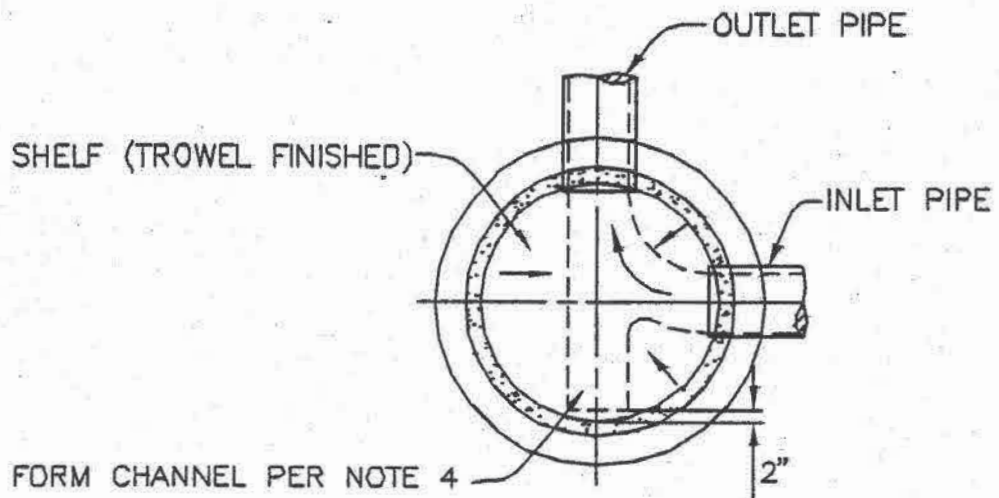
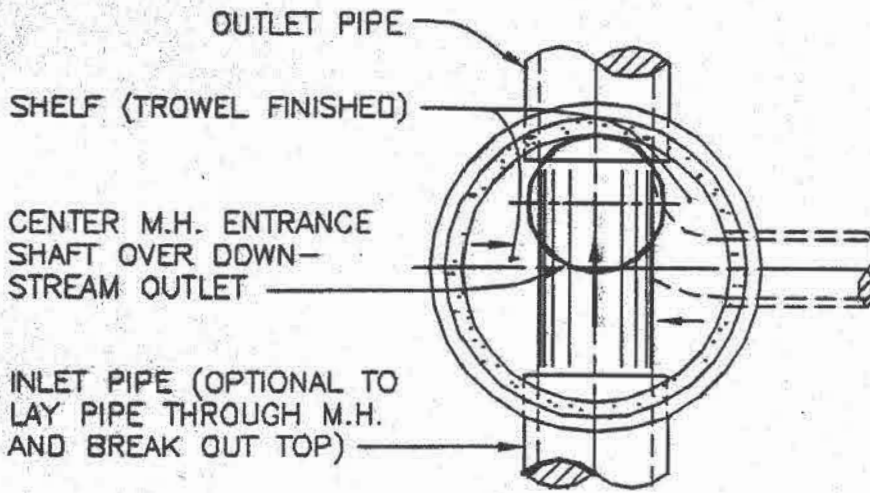
Drawing No. 207

VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT

48" AND 60" MANHOLE

SHEET 1 OF 2

MARK	REVISIONS	APPR.	DATE



NOTES

1. COMPLETELY SEAL THE INSIDE OF THE MANHOLE WITH DISTRICT APPROVED PROTECTIVE COATING WITH HIGH BONDING STRENGTH AND RESISTANCE TO WATER AND SEWER GASES. THE COATING APPLICATION SHALL BE PER THE MANUFACTURES REQUIREMENTS.
2. CONCENTRIC CONES SHALL BE USED WHEN MANHOLES ARE LESS THAN 4' IN TOTAL DEPTH.
3. PRE-CAST CONCRETE M.H. BASES MAY BE PERMITTED WITH APPROVAL FROM THE DISTRICT GENERAL MANAGER/DISTRICT ENGINEER.
4. CHANNELS, IN THE BASE OF A MANHOLE LOCATED ON A 90° TURN IN A SEWER LINE, SHALL BE FORMED AS SHOWN ABOVE TO ALLOW BETTER ACCESS FOR TV INSPECTION UNITS AND OTHER TYPES OF MAINTENANCE EQUIPMENT.

N.T.S.

Drawing No. 207

**VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT**

48" AND 60" MANHOLE

MARK	REVISIONS	APPR.	DATE

FINISH GRADE

6" MIN.

RIM ELEV.

FRAME AND COVER
BROOKS PRODUCTS
INC. 3-RT SERIES, OR
EQUAL, TRAFFIC BOX
WITH LD MARKED
"SEWER"

3' MAX.

STD. CROSS

6" MIN.

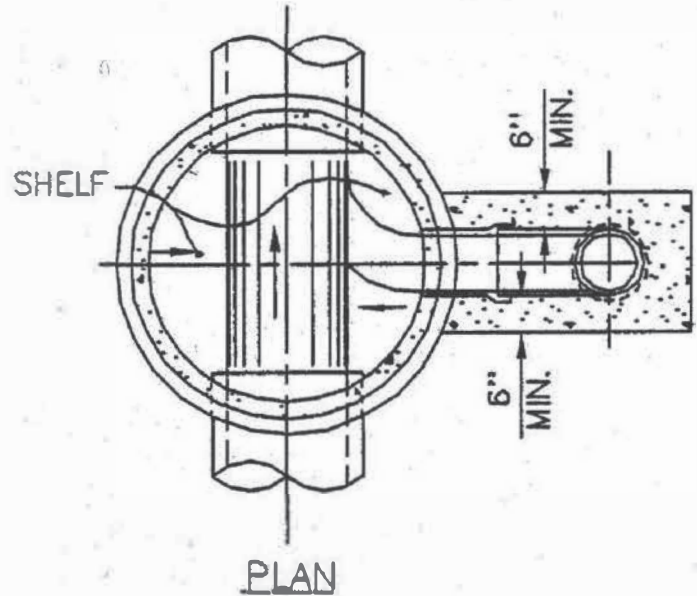
8" MIN.

INSTALL
RUBBER
O-RING
WATER
STOP(S)
WHEN PVC
IS USED

6" MIN.

90° BEND

6" MIN.



NOTES:

1. SEE STANDARD DRAWING NO. 207 FOR OTHER REQUIRED MANHOLE DETAILS.
2. DROP MANHOLES SHALL NOT BE USED UNLESS SPECIAL APPROVAL IS GIVEN BY THE DISTRICT MANAGER/DISTRICT ENGINEER.

N.T.S.

Drawing No. 208

**VANDENBERG VILLAGE
COMMUNITY SERVICES DISTRICT**

DROP MANHOLE

MARK	REVISIONS	APPR.	DATE