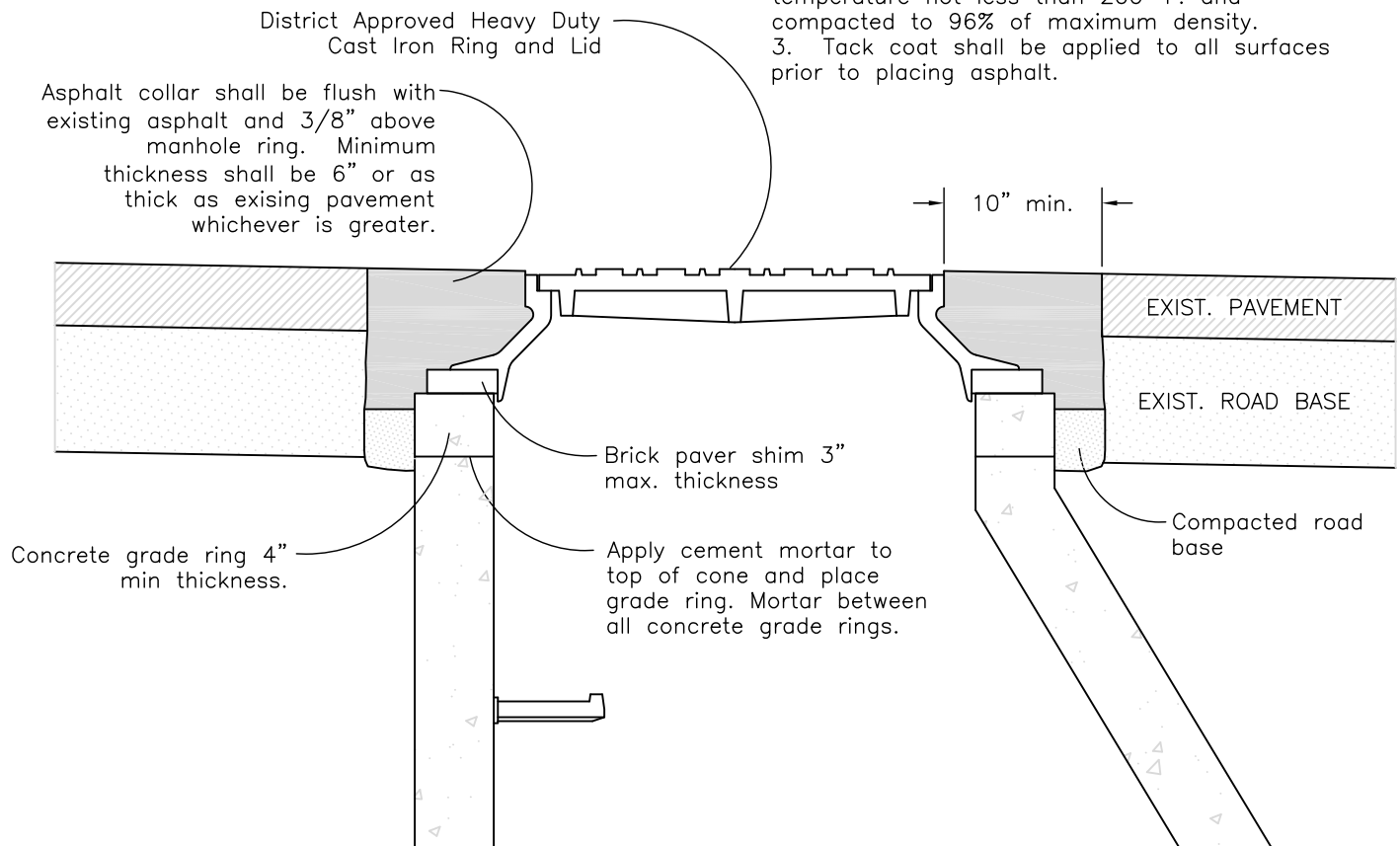


**NOTES:**

1. Ring and lid shall be inspected and replaced if broken or cracked with District approved heavy duty ring and lid.
2. Grade rings shall be minimum of 4" thick. Concrete shall be 6.5 bag mix with 28 day compressive strength of 4000 psi.
3. Cast iron ring shall be adjusted precisely to slope and cross slope of road. Brick pavers may be used as shims to a maximum thickness of 3". Shims shall be fully grouted. Metal spacer rings shall not be used.
4. Cast iron ring shall be 1/4" to 3/8" below the existing pavement surface. Cleats on lid shall not extend above the plane of the asphalt.

**ASPHALT COLLAR**

1. Asphalt collar shall be recycled asphalt mix prepared on site in portable asphalt batch plant.
2. Recycled asphalt mix shall be applied at a temperature not less than 200° F. and compacted to 96% of maximum density.
3. Tack coat shall be applied to all surfaces prior to placing asphalt.



## DETAIL - ASPHALT COLLAR

FOR RAISING MANHOLE COVER IN STREET  
WITH FLEXIBLE PAVEMENT

COTTONWOOD IMPROVEMENT DISTRICT

DETAIL - ASPHALT COLLAR

DATE: 7/20/98

REVISIONS:

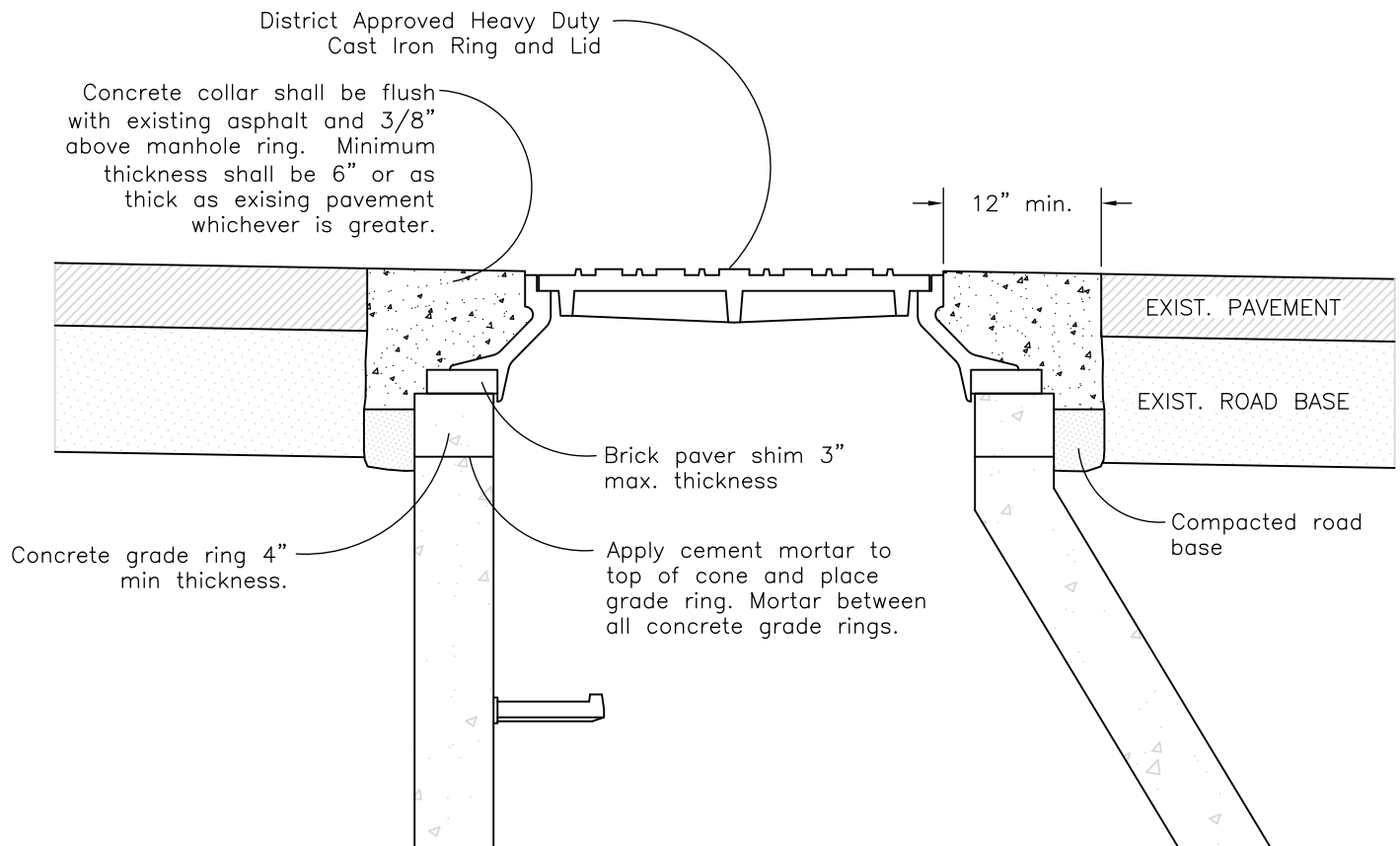
SCALE: NO SCALE

DWG. NO.

D1

NOTES:

1. Ring and lid shall be inspected and replaced if broken or cracked with District approved heavy duty ring and lid.
2. Grade rings shall be minimum of 4" thick. Concrete shall be 6.5 bag mix with 28 day compressive strength of 4000 psi.
3. Cast iron ring shall be adjusted precisely to slope and cross slope of road. Brick pavers may be used as shims to a maximum thickness of 3". Shims shall be fully grouted. Metal spacer rings shall not be used.
4. Cast iron ring shall be 1/4" to 3/8" below the existing pavement surface. Cleats on lid shall not extend above the plane of the asphalt.
5. Concrete collar shall be 6.5 bag mix.



## DETAIL - CONCRETE COLLAR

FOR RAISING MANHOLE COVER IN STREET WITH  
FLEXIBLE PAVEMENT  
ONLY WHERE REQUIRED BY OWNER OF ROADWAY

COTTONWOOD IMPROVEMENT DISTRICT

DETAIL - CONCRETE COLLAR

DATE: 3/4/99

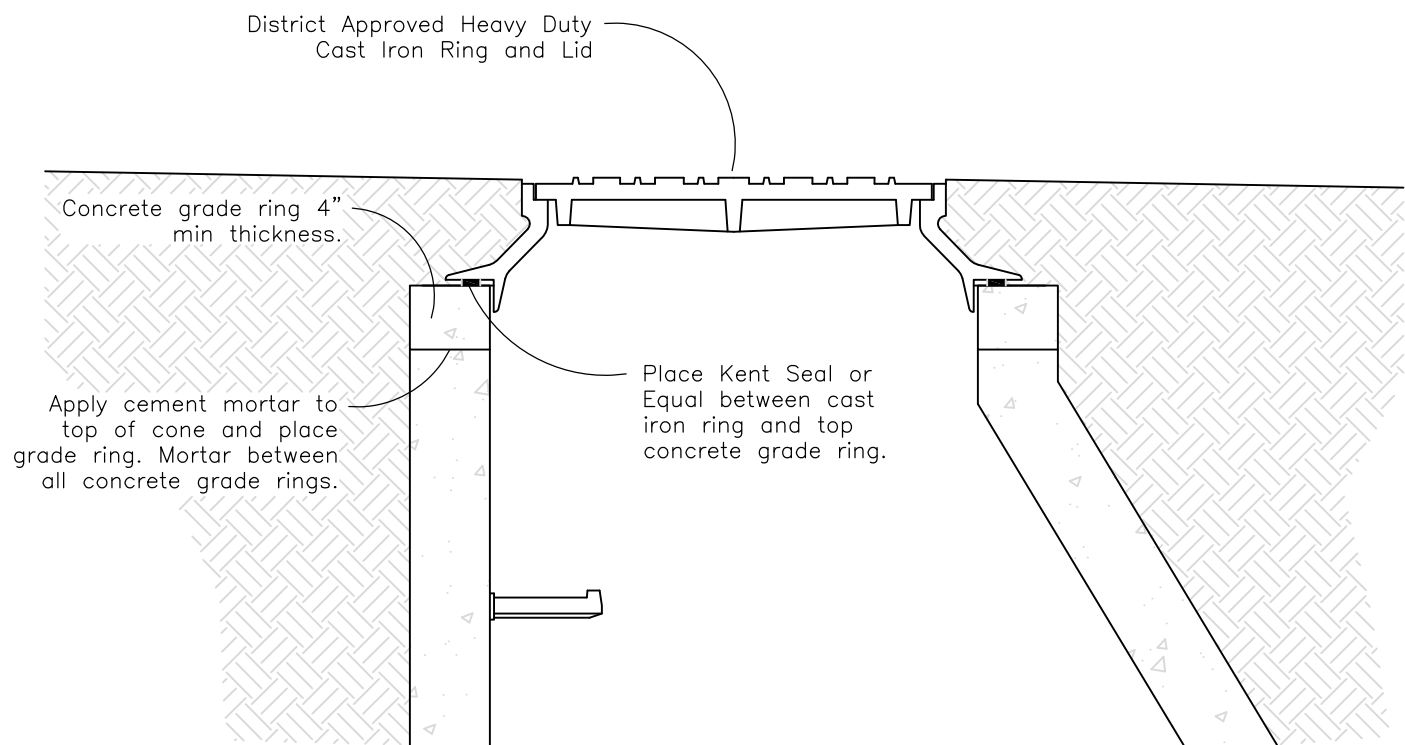
REVISIONS:

SCALE: NO SCALE

DWG. NO.

D2

- NOTES:
- 1. Ring and lid shall be inspected and replaced if broken or cracked with District approved heavy duty ring and lid.
  - 2. Grade rings shall be minimum of 4" thick. Concrete shall be 6.5 bag mix with 28 day compressive strength of 4000 psi.
  - 3. Cast iron ring shall be adjusted precisely to grade of landscaping. Cast iron riser rings may be used to make fine grade adjustments to a maximum thickness of 3".



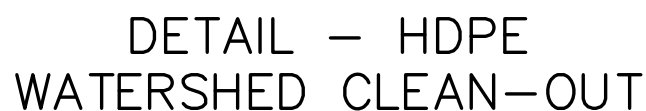
**DETAIL - RAISED MANHOLE IN  
LANDSCAPING**

FOR RAISING MANHOLE COVER IN UNPAVED AREAS

COTTONWOOD IMPROVEMENT DISTRICT	DATE:	3/4/99	DWG. NO.
	REVISIONS:		
	SCALE:	NO SCALE	
RAISED MH IN LANDSCAPING			D3

**D4A**

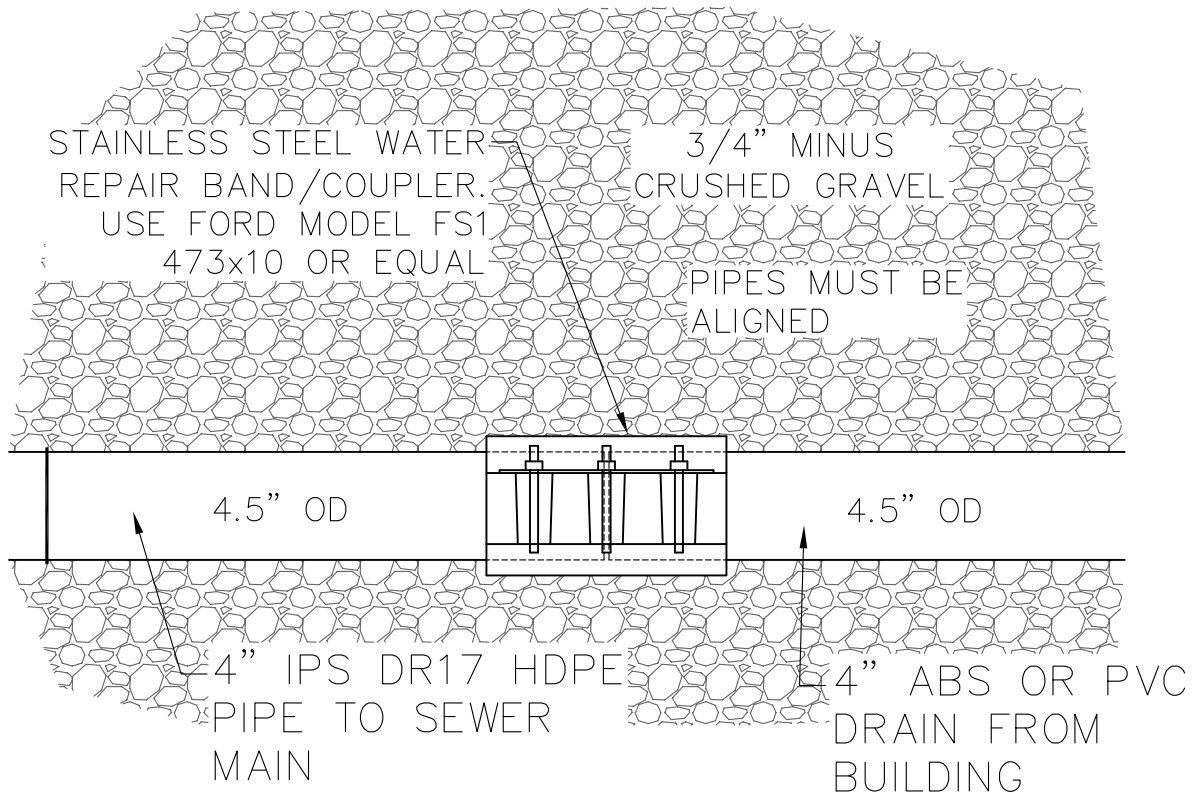
1. ONLY SELECT GRANULAR MATERIAL SHALL BE PLACED AROUND RISER PIPE TO A THICKNESS OF 12". NO PARTICLES LARGER THAN 1.5" IN DIAMETER SHALL BE ALLOWED.
2. 3/4" MINUS CRUSHED STONE IS REQUIRED UNDERNEATH PIPE TO A MINIMUM DEPTH OF 4" AND ABOVE THE PIPE NOT LESS THAN 12" INCHES.
3. CONCRETE COLLAR AND HEAVY DUTY RING AND LID REQUIRED IN DRIVEWAYS, HARD SURFACE AREAS, AND TRAFFIC AREAS.
4. ALL PIPE AND FITTING MATERIALS ARE HDPE DR17 PE4710.
5. ALL JOINTS SHALL BE MADE USING BUTT FUSION OR ELECTROFUSION COUPLINGS.



**D4B**

NOTES:

1. CONNECTION MUST BE MADE WITHIN 5 FEET OF BUILDING FOUNDATION.
2. PIPES MUST BE CAREFULLY ALIGNED.



DETAIL — WATERSHED BUILDING  
SEWER CONNECTION

COTTONWOOD IMPROVEMENT DISTRICT

WATERSHED BUILDING CONNECTION

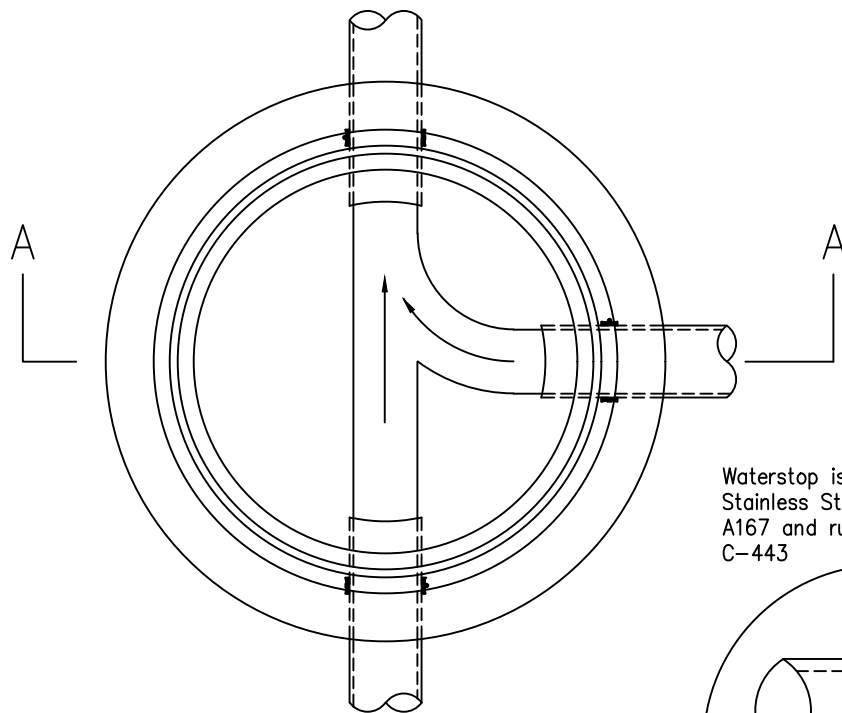
DATE: 4/23/2014

REVISIONS:

SCALE: NO SCALE

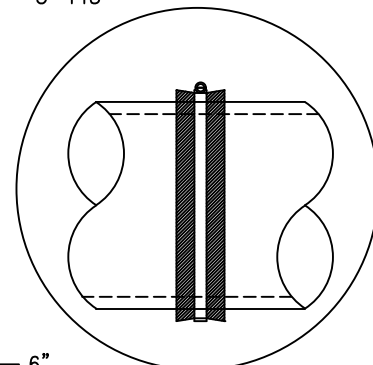
DWG. NO.

D4C

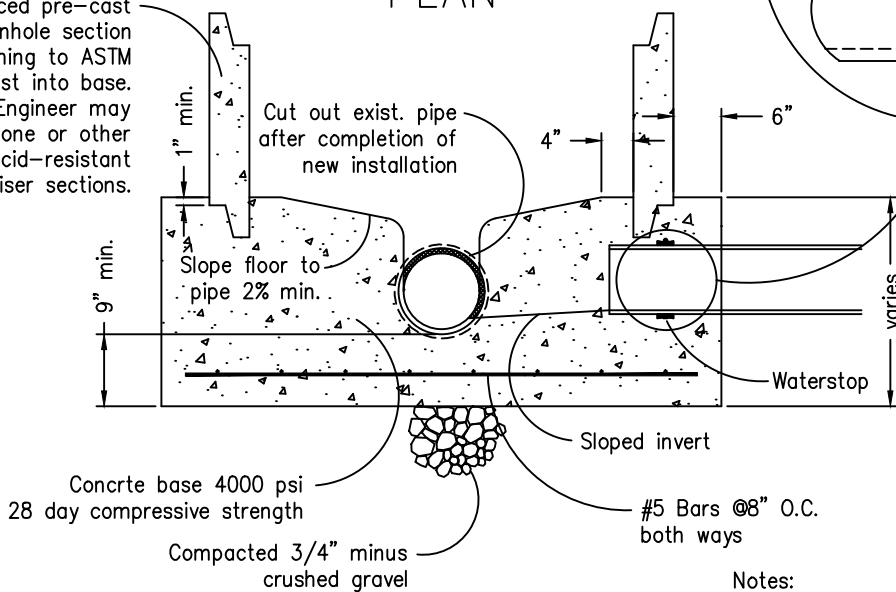


PLAN

Waterstop is 1/2" 300 Series nonmagnetic Stainless Steel band conforming to ASTM A167 and rubber gasket meeting ASTM C-443



Steel reinforced pre-cast concrete manhole section conforming to ASTM C-478 cast into base. District Engineer may require Dynastone or other proven acid-resistant concrete for riser sections.



SECTION A-A  
MANHOLE BASE  
CAST-IN-PLACE

Notes:

1. This manhole base is to be used for a connection to an existing line or as an alternate to a pre-cast manhole base.
2. Inverts shall be smooth and "U" shaped.
3. Waterstops shall be A-LOK Wedge style for existing pipes and One-Piece spliced style for new pipe, or, Engineer approved equals.
4. The first pre cast manhole section shall be cast into the base. The remainder of the manhole construction shall conform to The Cottonwood Improvement District Standard Pre-cast Manhole Details.

COTTONWOOD IMPROVEMENT DISTRICT

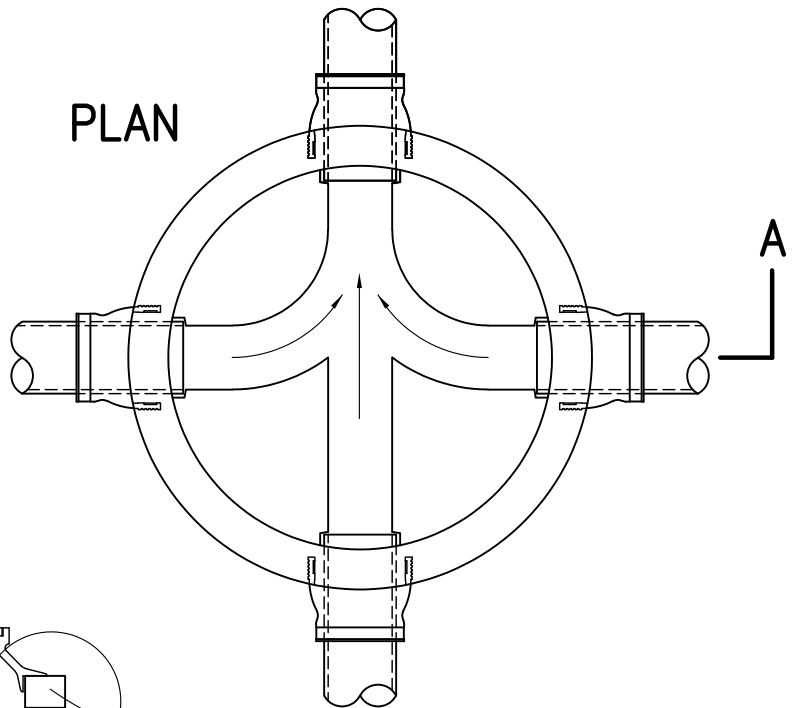
CAST-IN-PLACE MANHOLE BASE

DATE: 4/2/99  
REVISIONS:  
5/14/2007  
5/1/2025  
SCALE: 1/2" = 1'

DWG. NO.

D5

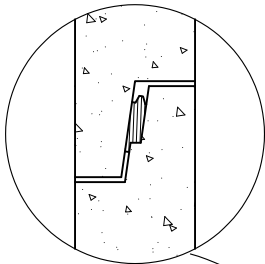
# PLAN



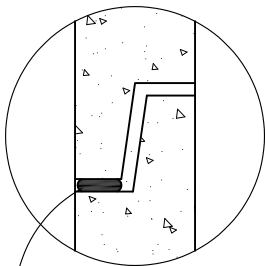
Bolt-down water tight lid with "O" ring gasket and stainless steel bolts required in regulated watershed area. Use D.&L. Supply E-1926 or equal

Heavy duty cast iron ring & lid with Cottonwood Improvement District logo. Use D. & L. Supply A-1180 or Engineer approved equal in non-watershed areas. Do not install optional dust pan

Pre lubricated manhole joint seal conforming to ASTM C443 Use Forsheda or equal. Typical all joints

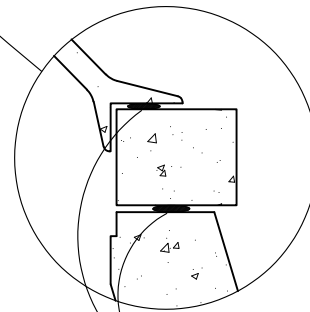


Alternate:



Use offset cone unless otherwise directed by District Inspector or Engineer

4" or 6" pre cast reinforced concrete grade ring conforming to ASTM C-478 as required. 12" max. total height



Use Kent-Seal or Silicone caulk meeting ASTM C 834-91 between all surfaces

Grout around pipe not required.

Floor slope 2%

Pre cast invert

Double row of Butyl sealant conforming to ASTM C990. Use Kent Seal or Engineer approved equal.

Compacted 3/4" minus crushed gravel, 4" min.

Rubber boot and S.S. Bands use KOR-N-SEAL or equal

## SECTION A-A, PRE-CAST MANHOLE

COTTONWOOD IMPROVEMENT DISTRICT

DATE: 4/2/99

DWG. NO.

REVISIONS:

2/1/2016

1/18/2024

SCALE: 1/2"=1'

D6A

STANDARD PRE-CAST MANHOLE



Standard Manhole Notes:

1. Manhole diam. shall be in accordance with the following table:

Largest Pipe Size	2 Pipes straight through to 45° bend	2 Pipes 45° to 90° bend	3 or 4 pipes
10" or less	4' diam	4' diam	4' diam
12"	4' diam	4' diam	5' diam
15"	4' diam	5' diam	5' diam
18"	4' diam	5' diam	5' diam
21"	5' diam	5' diam	5' diam
24"	5' diam	5' diam	5' diam
30"	5' diam	5' diam	6' diam
33"	5' diam	6' diam	Custom
36"	5' diam	6' diam	Custom
39"	6' diam	6' diam	Custom

A larger size than those shown above, or a custom design may be required depending on pipe alignments and field conditions.

2. Invert covers shall be placed in all manholes or as indicated by District Inspector. Covers will only be removed in paved areas and only after pavement is installed and manhole cover is brought to grade.

3. All pipes entering or exiting manhole must be booted. Use KOR-N-SEAL or equal. Boot shall conform to ASTM C-443. Internal and external steel bands shall be 300 Series nonmagnetic stainless steel conforming to ASTM A167.

4. For installation of new pipe into existing manhole: core drill into manhole and install KOR-N-SEAL boot or equal.

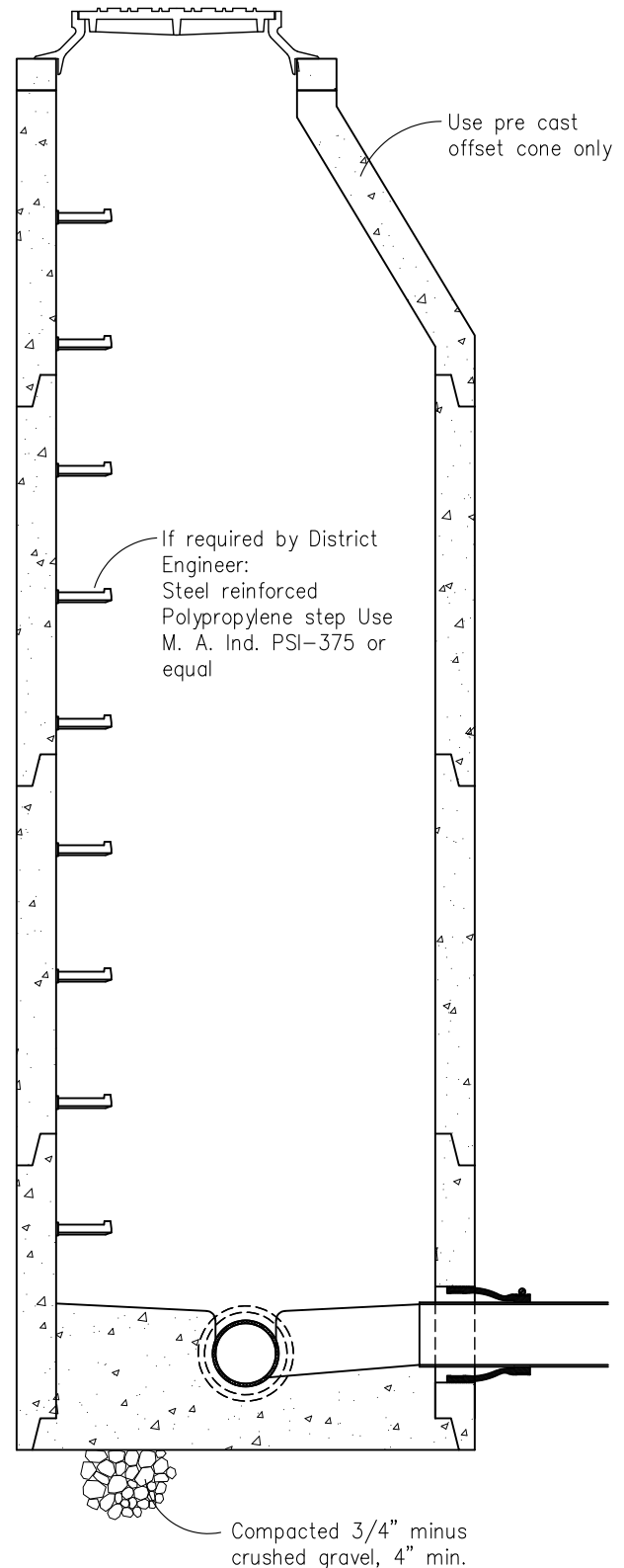
5. Kent-Seal may be used as alternate to Forsheda Gasket under the following conditions: – ground water level is below the manhole base – not a regulated watershed area – and/or the alternate is approved by the District after an on-site inspection.

6. Vacuum test of manhole is required at completion of construction in watershed areas. Inspector may require a vacuum test of manhole in non-watershed areas at his discretion. (Typically in areas where water table is high)

7. No visible leaks into manhole will be allowed. All leaks must be repaired by method approved by District before final inspection

8. Pre-cast manhole base, sections and cone shall conform to ASTM C478, latest edition. District Engineer at his discretion may require base, sections and cone to be epoxy coated or made of acid resistant material.

9. Minimum drop through manhole is 0.05'. Typical drop through manhole is 0.2'.



## SECTION A-A, PRE-CAST MANHOLE CONTINUED

COTTONWOOD IMPROVEMENT DISTRICT

DATE: 4/2/99

DWG. NO.

REVISIONS:

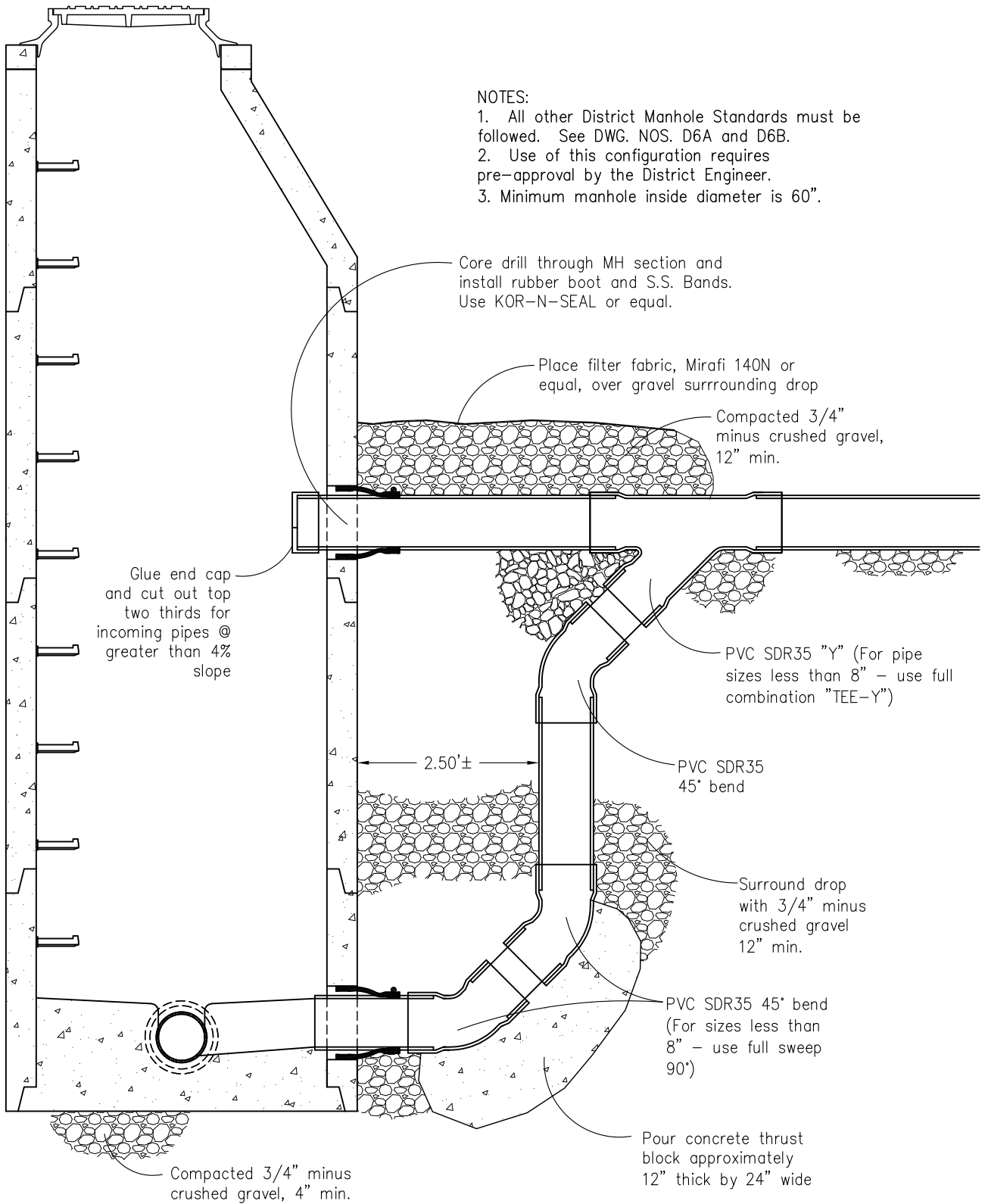
2/1/2016

1/18/2024

SCALE: 1/2"=1'

D6B

STANDARD PRE-CAST MANHOLE



## SECTION – DROP MANHOLE

COTTONWOOD IMPROVEMENT DISTRICT

OUTSIDE DROP MANHOLE

DATE: 6/16/00

REVISIONS:

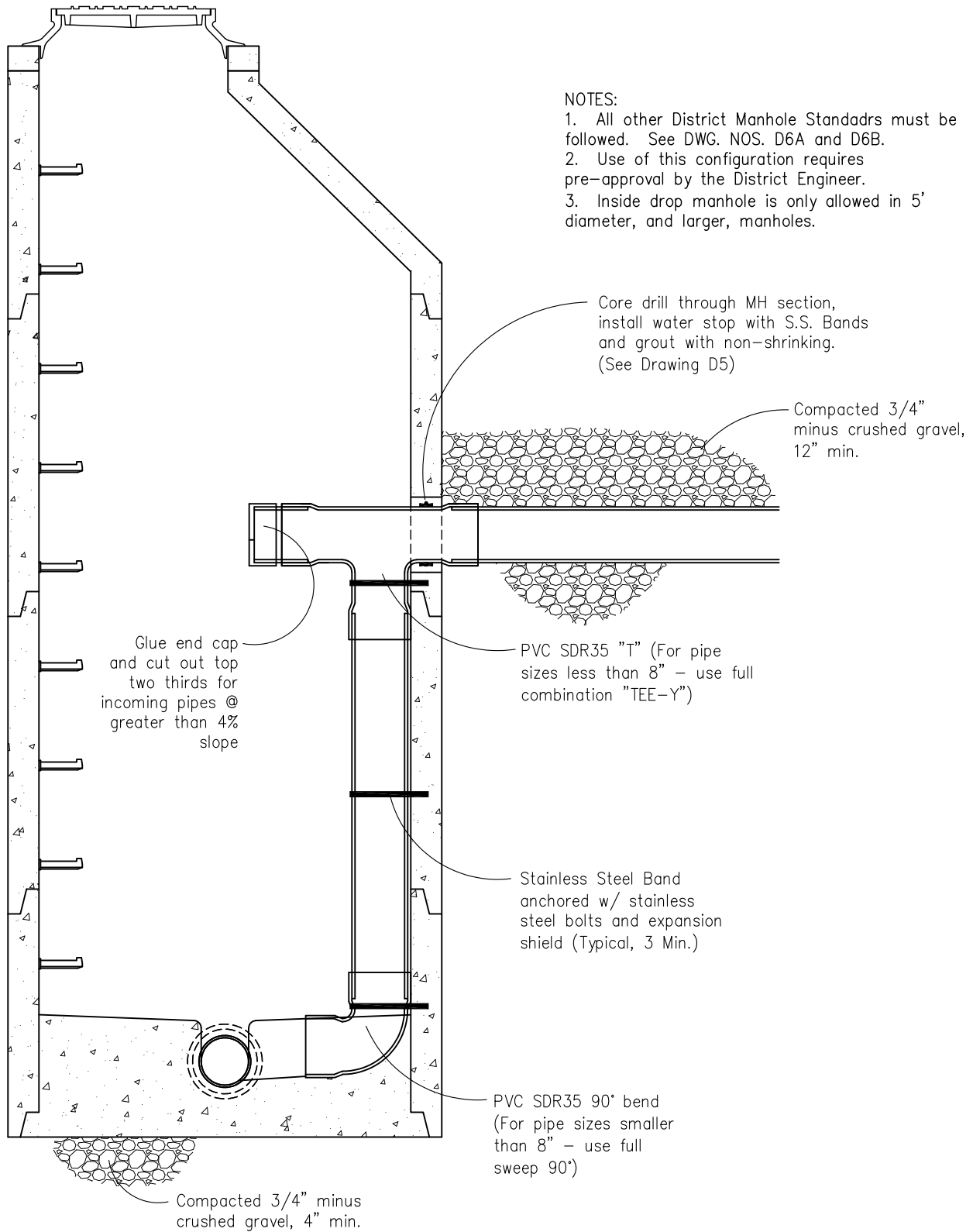
2/1/2016

1/18/2024

SCALE: 1/2"=1'

DWG. NO.

D6C



## SECTION – DROP MANHOLE

COTTONWOOD IMPROVEMENT DISTRICT

INSIDE DROP MANHOLE

DATE: 6/16/00

REVISIONS:

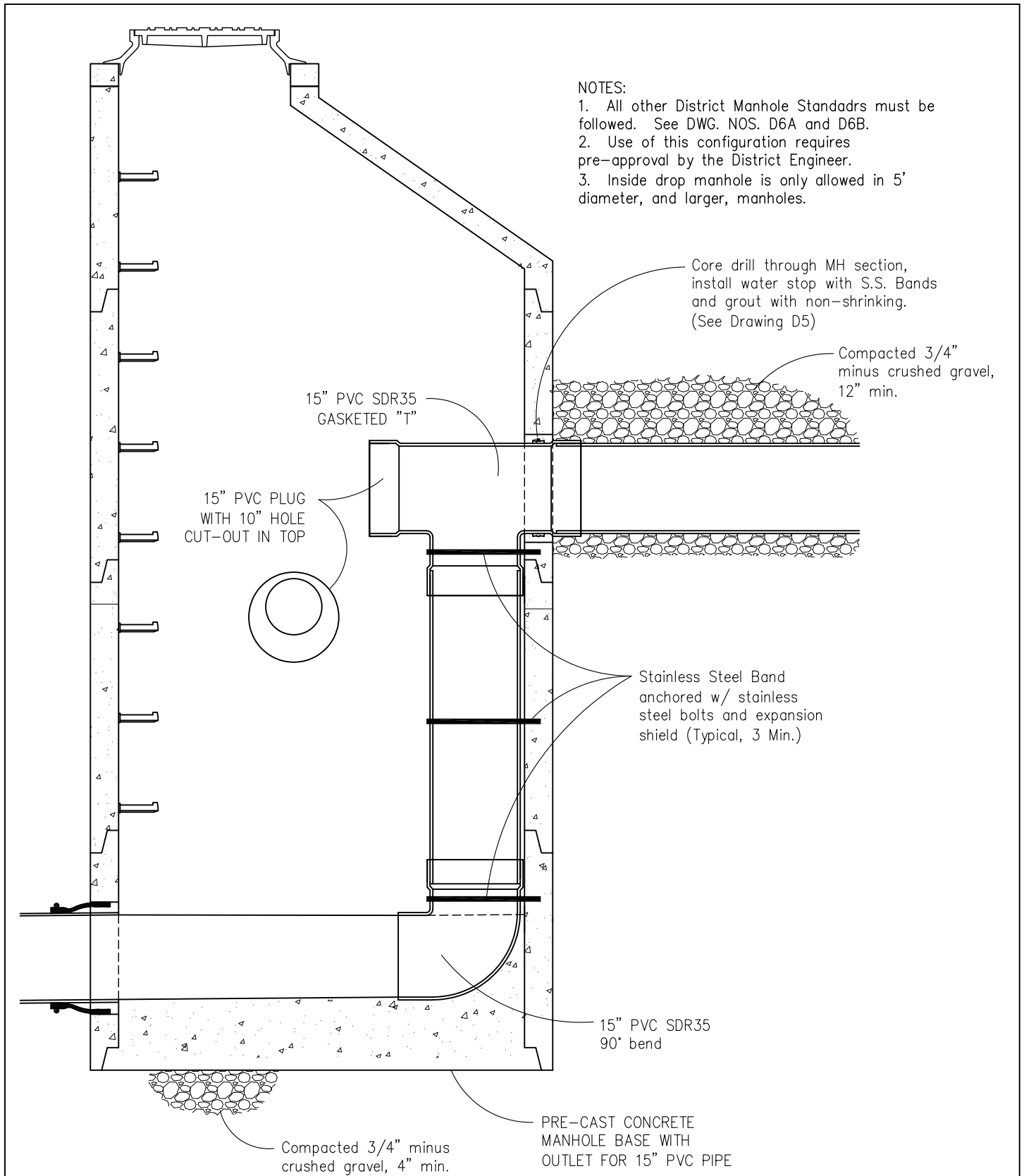
2/1/2016

1/18/2024

SCALE: 1/2"=1'

DWG. NO.

D6D

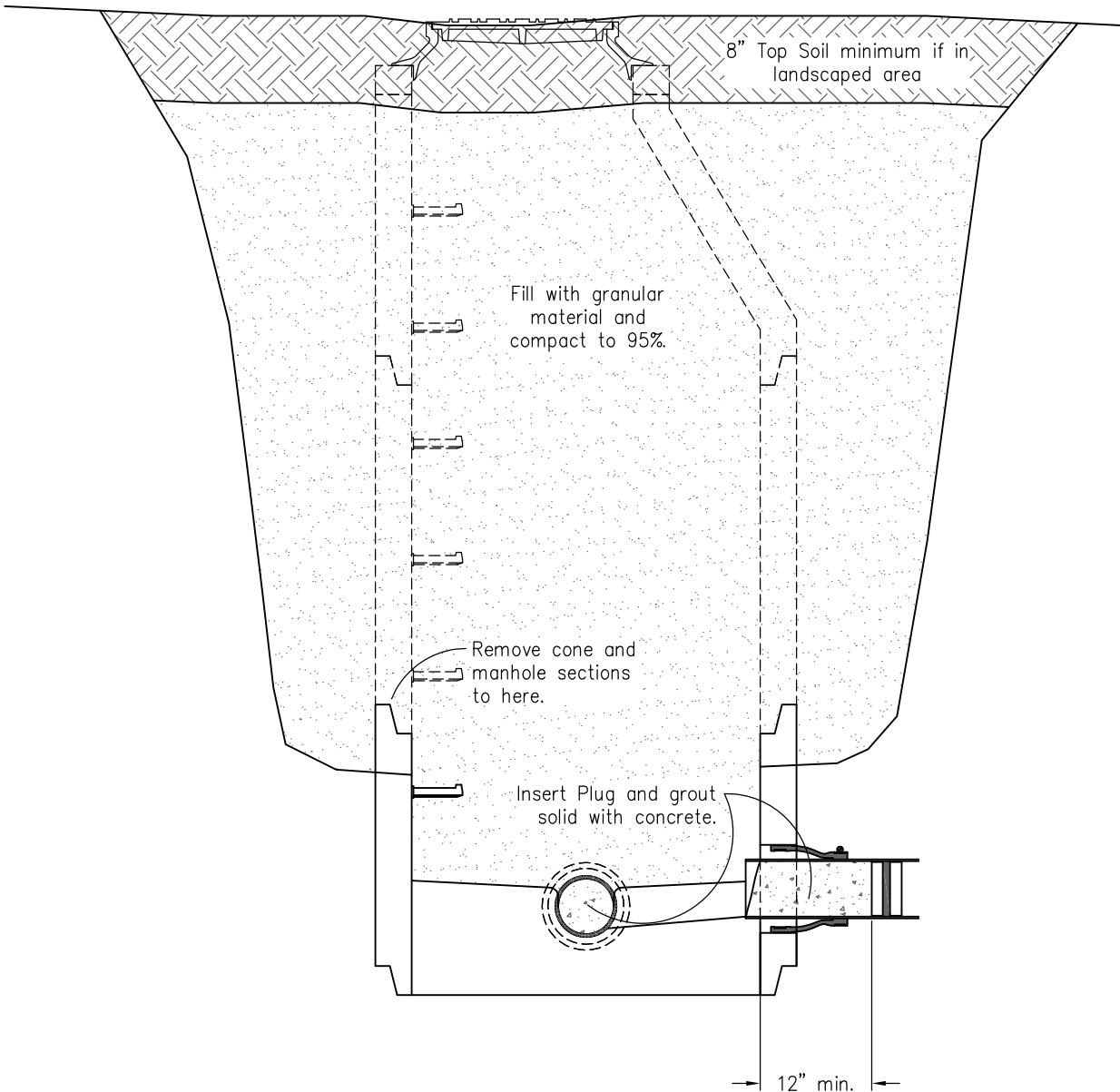


## SECTION – DROP MANHOLE

COTTONWOOD IMPROVEMENT DISTRICT	DATE:	6/16/00	DWG. NO.
	REVISIONS:		
	2/1/2016		
	1/18/2024		
6' INSIDE DROP MANHOLE - 15" PIPE	SCALE:	1/2"=1'	D6E

NOTES:

1. Remove and recycle ring and lid.
2. Excavate and remove cone and all sections down to base. Properly dispose of items removed.
3. Plug with Brandt Plug or other approved device and grout with concrete all entering and exiting pipes.
4. Backfill excavation with granular material and compact to 95%. If under roadway, compact to requirements of roadway owner. If in landscaped area, restore landscaping to original condition.



## ABANDON SEWER MANHOLE

COTTONWOOD IMPROVEMENT DISTRICT

ABANDON SEWER MANHOLE

DATE: 6/22/2005

REVISIONS:

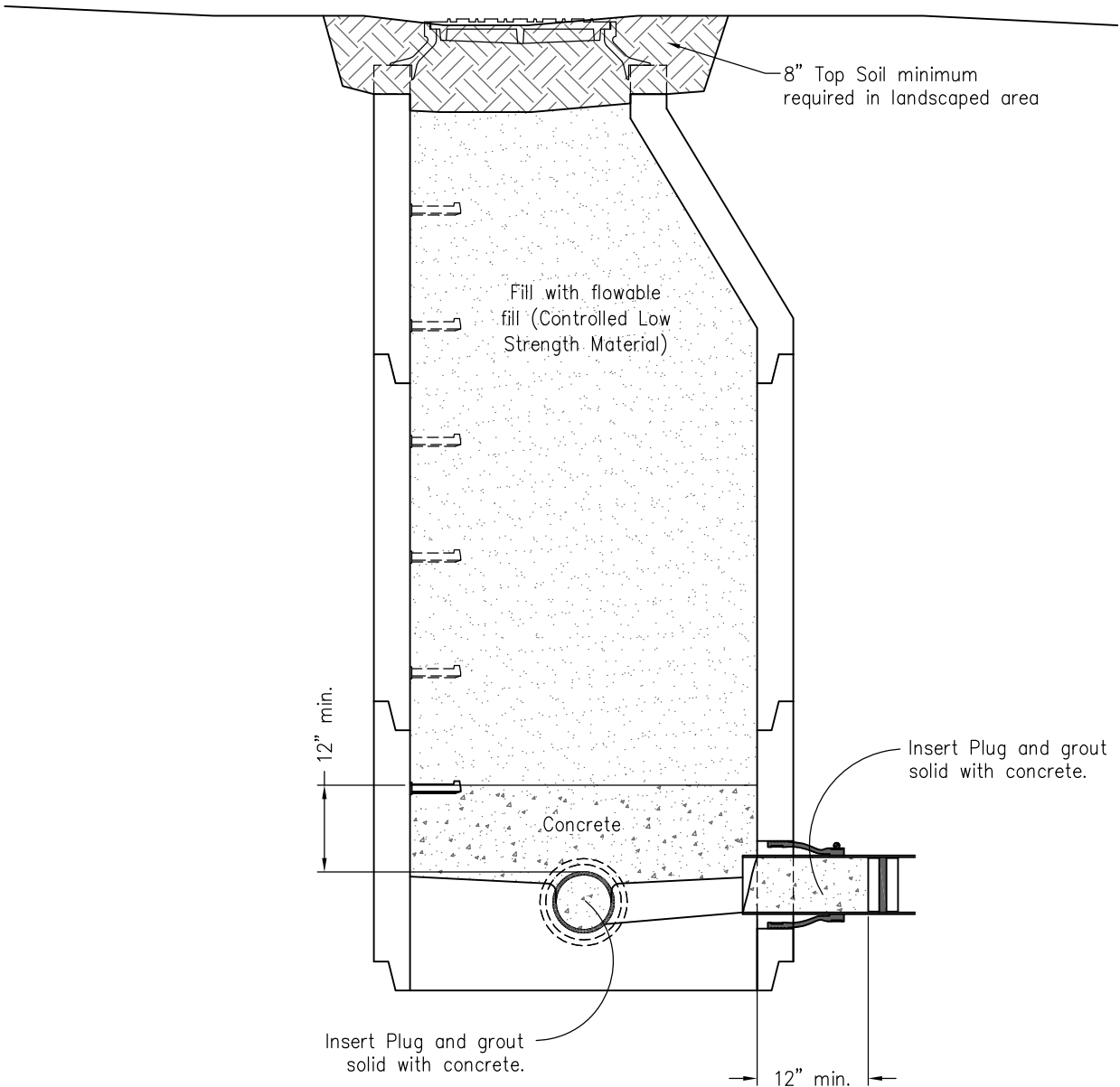
SCALE: 1/2"=1'

DWG. NO.

D6F

NOTES:

1. Remove and recycle ring and lid. Remove and dispose of any grade rings or brick and mortar risers.
2. Plug with Brandt Plug or other approved device and grout with concrete all entering and exiting pipes.
3. Backfill inside manhole with granular material and compact to 95%. If under roadway, compact to requirements of roadway owner. If in landscaped area, restore landscaping to original condition.



## ABANDON SEWER MANHOLE

COTTONWOOD IMPROVEMENT DISTRICT

ABANDON SEWER MANHOLE - ALT

DATE: 5/23/2007

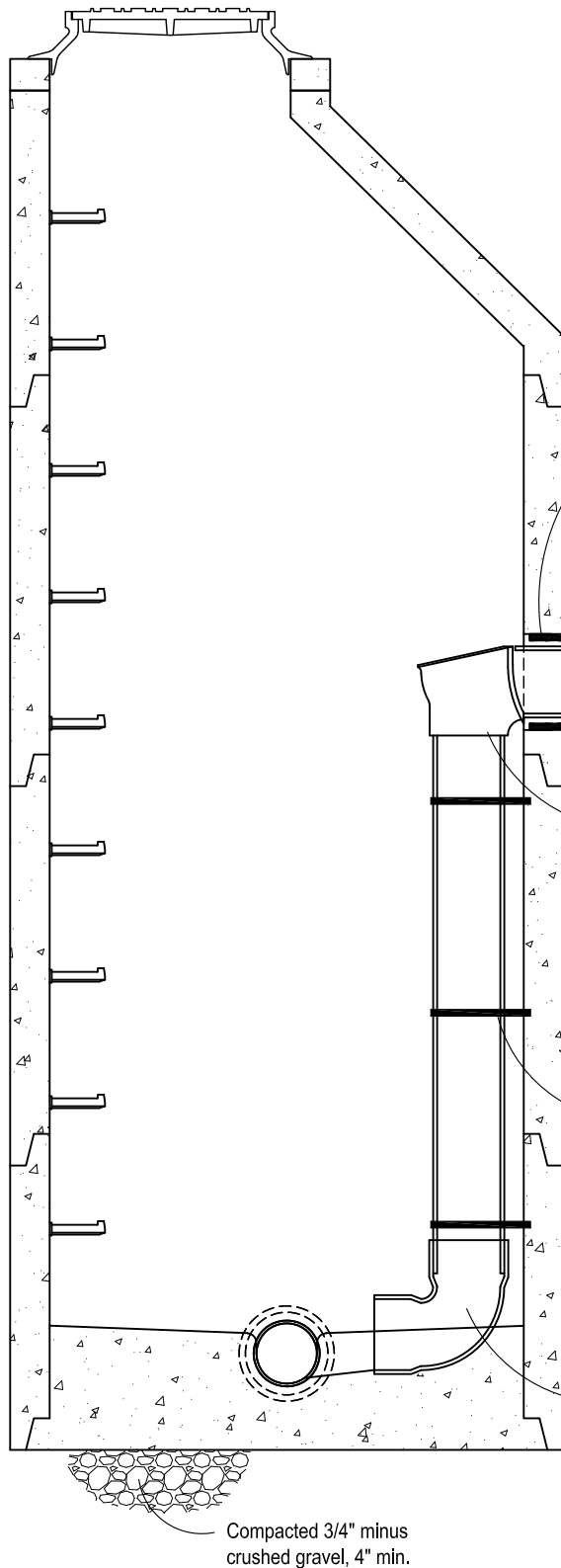
REVISIONS:

2/1/2016

SCALE: 1/2"=1'

DWG. NO.

D6G



**NOTES:**

1. All other District Manhole Standards must be followed. See DWG. NOS. D6A and D6B.
2. Use of this configuration requires pre-approval by the District Engineer.
3. Inside drop manhole is only allowed in 5' diameter, and larger, manholes.

## SECTION - DROP MANHOLE

COTTONWOOD IMPROVEMENT DISTRICT

**INSIDE DROP MANHOLE**

DATE: 11/23/2023

REVISIONS:

2/1/2016

1/18/2024

SCALE: 1/2"=1'

DWG. NO.

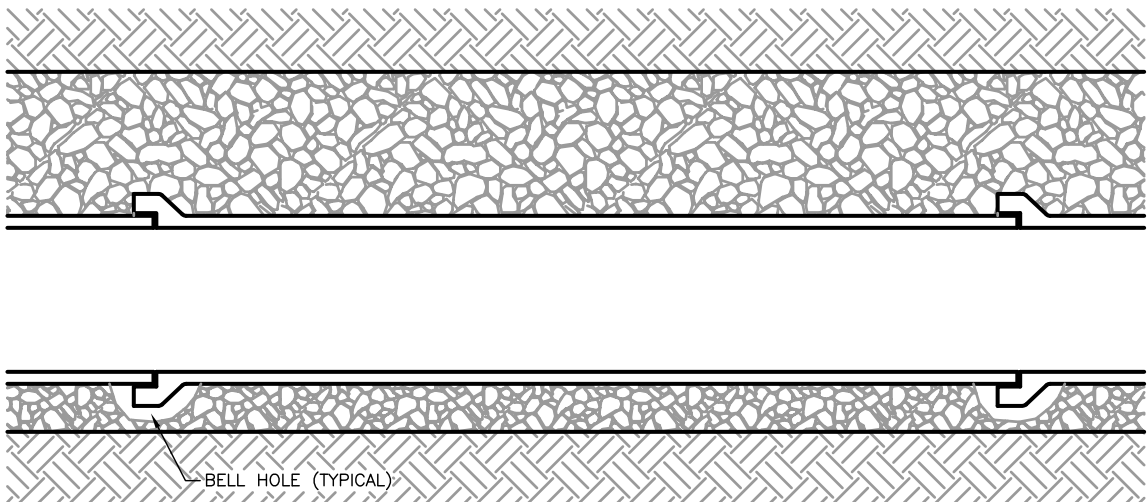
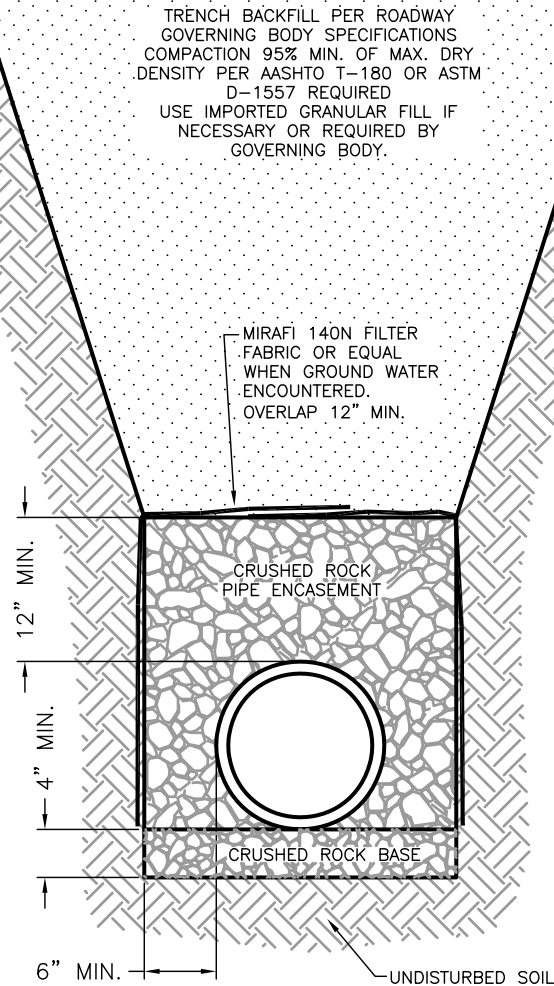
**D6H**

NOTES:

1. CRUSHED ROCK BASE SHALL BE PLACED AT GRADE TO A DEPTH OF NOT LESS THAN 4" AND MECHANICALLY COMPACTED. BELL HOLES SHALL BE EXCAVATED IN THE COMPACTED BASE SO THAT THE PIPE IS NOT RESTING ON ITS BELL.
2. TOTAL CRUSHED ROCK PIPE ENCASEMENT SHALL BE PLACED TO A DEPTH NOT LESS THAN 12" ABOVE THE TOP OF THE PIPE, FROM BANK TO BANK OF TRENCH, AND MECHANICALLY COMPACTED USING A VIBRATING PLATE. FIRST LIFT OF CRUSHED ROCK ENCASEMENT SHALL BE PLACED UP TO THE SPRING LINE OF THE PIPE. CONTRACTOR SHALL SLICE UNDER HAUNCHES OF PIPE COMPLETELY FILLING ANY VOIDS. CARE SHALL BE TAKEN TO KEEP PIPE ON GRADE WHILE SLICING. SECOND LIFT OF THE ENCASEMENT SHALL EXTEND FROM THE SPRING LINE OF THE PIPE UP TO A POINT 12" ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL ABOVE PIPE ENCASEMENT SHALL BE AS DICTATED BY THE GOVERNING BODY OF THE ROAD RIGHT-OF-WAY. IF PIPELINE IS NOT IN ROAD RIGHT-OF-WAY, BACK FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN THICKNESS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER AASHTO T-180 OR ASTM D-1557. IN AREAS WHERE PIPELINE IS UNDER LANDSCAPING, THE COMPACTION MAY BE LOWERED TO 90% WITH APPROVAL OF THE DISTRICT ENGINEER.
4. BEDDING AND PIPE ZONE MATERIAL SHALL BE CLEAN, FREE-DRAINING AND WELL-GRADED CRUSHED ROCK WITH A MAXIMUM AGGREGATE SIZE OF 1". CRUSHED ROCK MUST MEET THE SPECIFICATIONS BELOW AND BE APPROVED BY THE DISTRICT INSPECTOR:

SIEVE	PERCENT PASSING
3/4	90-100
3/8	20-55
#4	0-10
#8	0-5

5. IN AREAS WHERE GROUND WATER IS AT OR ABOVE THE PIPE ZONE, MIRAFL 140N FILTER FABRIC OR EQUAL SHALL BE PLACED ON TOP OF THE CRUSHED STONE ENCASEMENT BEFORE BACK FILLING TRENCH.



COTTONWOOD IMPROVEMENT DISTRICT

# TYPICAL TRENCH SECTION

DATE: 4/2/99

REVISIONS:

SCALE: NO SCALE

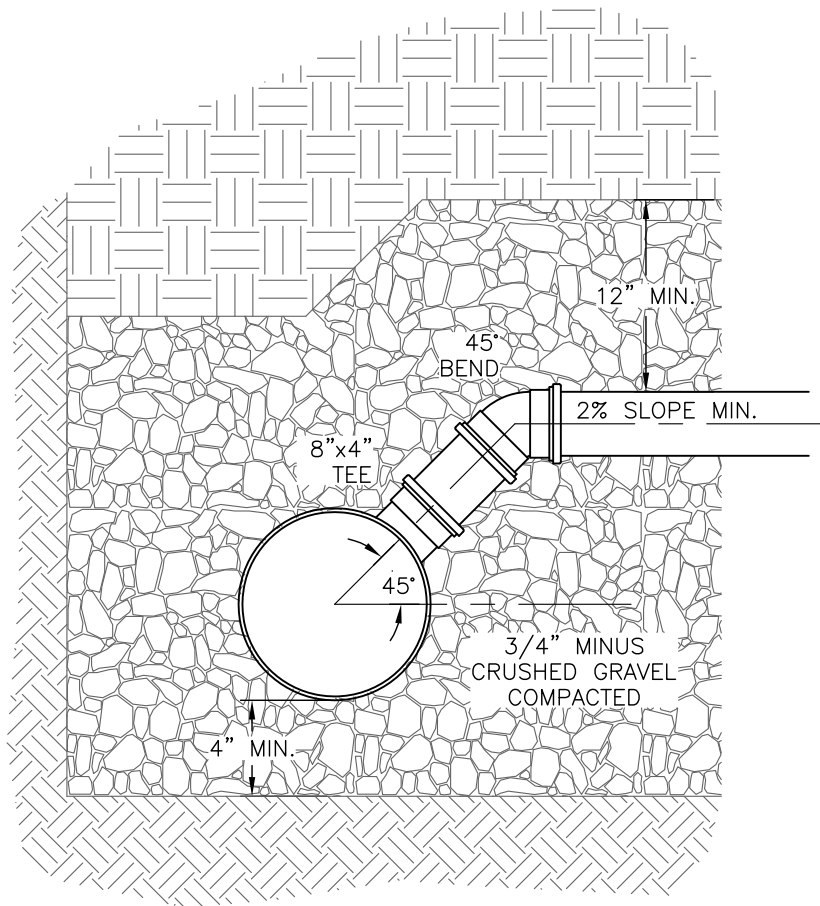
DWG. NO.

D7



NOTES:

1. "INSERTA-TEE" MAY BE USED FOR CONNECTION OF NEW SERVICE LINE TO EXISTING MAIN EXCEPT IN CASE WHERE A 6" SERVICE LINE IS TO BE CONNECTED TO AN 8" MAIN. A FACTORY TEE MUST BE USED IN ALL OTHER CASES.
2. IF SPECIAL CIRCUMSTANCES SUGGEST DEVIATING FROM THIS DETAIL, THE DISTRICT INSPECTOR OR ENGINEER MUST APPROVE CHANGES.
3. SLICE UNDER HAUNCHES OF PIPE TO FILL VOIDS. MECHANICALLY COMPACT GRAVEL.



SECTION

COTTONWOOD IMPROVEMENT DISTRICT

SERVICE LINE CONNCTION

DATE: 2/17/2000

REVISIONS:

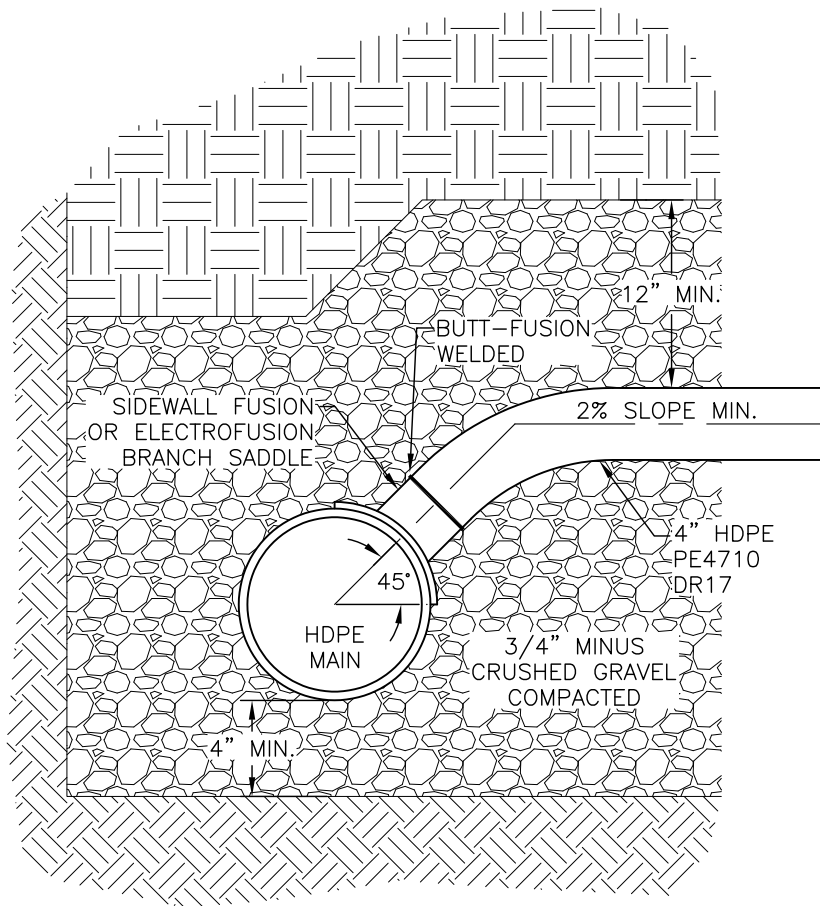
SCALE: NO SCALE

DWG. NO.

D8

NOTES:

1. IF SPECIAL CIRCUMSTANCES SUGGEST DEVIATING FROM THIS DETAIL, THE DISTRICT INSPECTOR OR ENGINEER MUST APPROVE CHANGES.
2. SLICE UNDER HAUNCHES OF PIPE TO FILL VOIDS. MECHANICALLY COMPACT GRAVEL.



SECTION

COTTONWOOD IMPROVEMENT DISTRICT

WATERSHED SERVICE LINE CONNECTION - HDPE

DATE: 5/7/2014

REVISIONS:

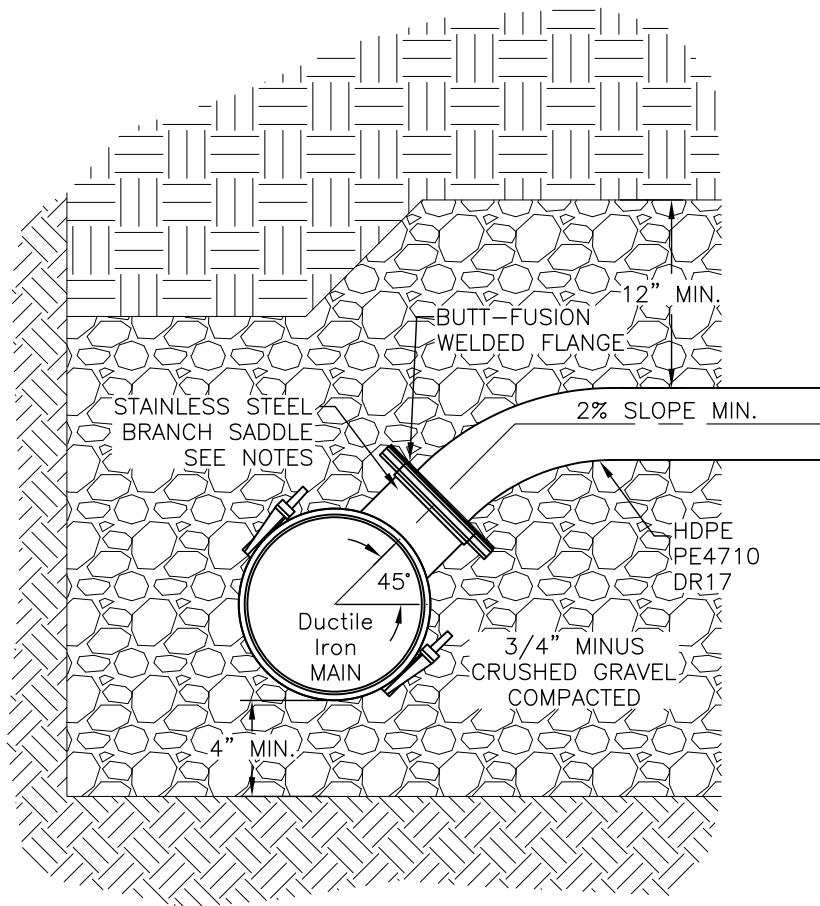
SCALE: NO SCALE

DWG. NO.

D8A

NOTES:

1. USE ROMAC SST TAPPING SLEEVE OR ENGINEER APPROVED EQUAL FOR 4" OR 6" SERVICE CONNECTIONS.
2. USE ROMAC STYLE 305 STAINLESS STEEL SERVICE SADDLE OR ENGINEER APPROVED EQUAL FOR 1-1/4" TO 3" DIAMETER PRESSURIZED SERVICE CONNECTION.
3. THE DISTRICT ENGINEER OR INSPECTOR MUST APPROVE ANY DEVIATIONS FROM THIS DETAIL.
4. SLICE UNDER HAUNCHES OF PIPE TO FILL VOIDS.



SECTION

COTTONWOOD IMPROVEMENT DISTRICT

WATERSHED SERVICE LINE CONNECTION - DI

DATE: 5/16/2023

REVISIONS:

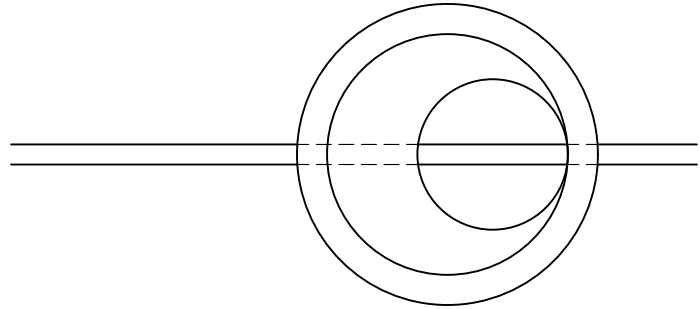
SCALE: NO SCALE

DWG. NO.

D8B

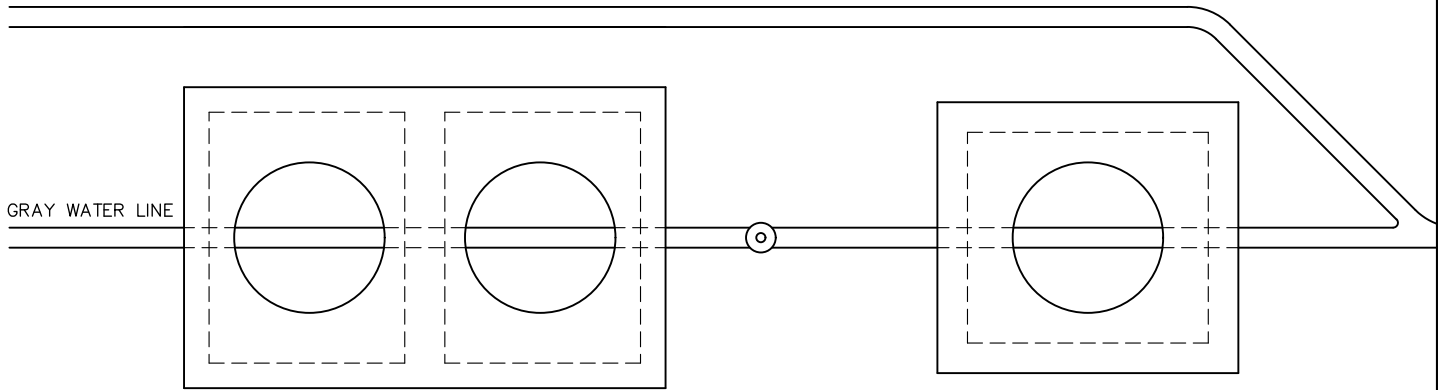
NOTES:

1. GREASE TRAP AND SAMPLING MANHOLE MUST BE TRAFFIC RATED WITH HEAVY DUTY CAST-IRON RING & COVER.
2. CAPACITY AND SIZE OF GREASE TRAP MUST BE PRE-APPROVED BY DISTRICT ENGINEER. CAPACITY SHALL BE LARGE ENOUGH TO LIMIT MAINTENANCE AND CLEANING TO ONCE PER MONTH. MINIMUM SIZE IS 1000 GAL.
4. ALL BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH DISTRICT STANDARDS AND SPECIFICATIONS.
5. SAMPLING MANHOLE MAY BE 4' DIAMETER CIRCULAR MANHOLE OR 3.5'x3.5' MIN. INSIDE DIMENSIONS SQUARE BOX.
6. WASTE LINE AND GRAY WATER LINE CONVERGE DOWNSTREAM OF SAMPLING MANHOLE.

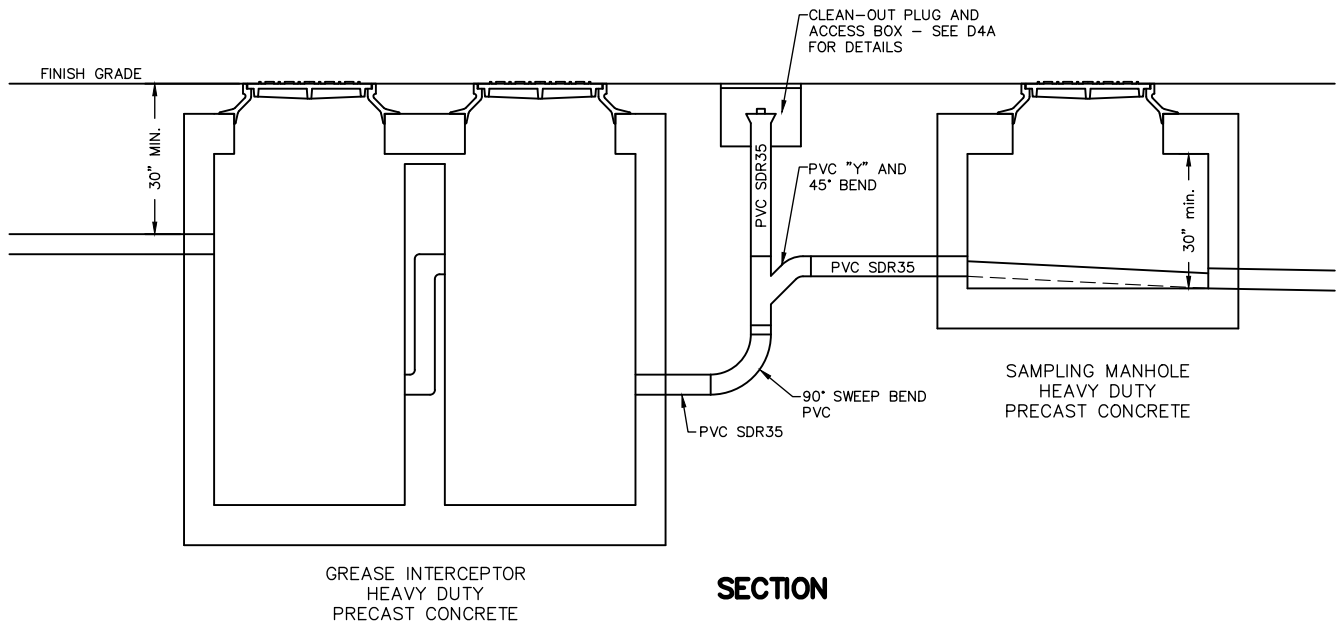


ALTERNATE 4' DIAM.  
HD CONCRETE  
SAMPLING MANHOLE

WASTE LINE



PLAN



SECTION

**GREASE INTERCEPTOR AND  
SAMPLING MANHOLE**

COTTONWOOD IMPROVEMENT DISTRICT

**GREASE TRAP & SAMPLING MH**

DATE: 9/23/1999

REVISIONS:

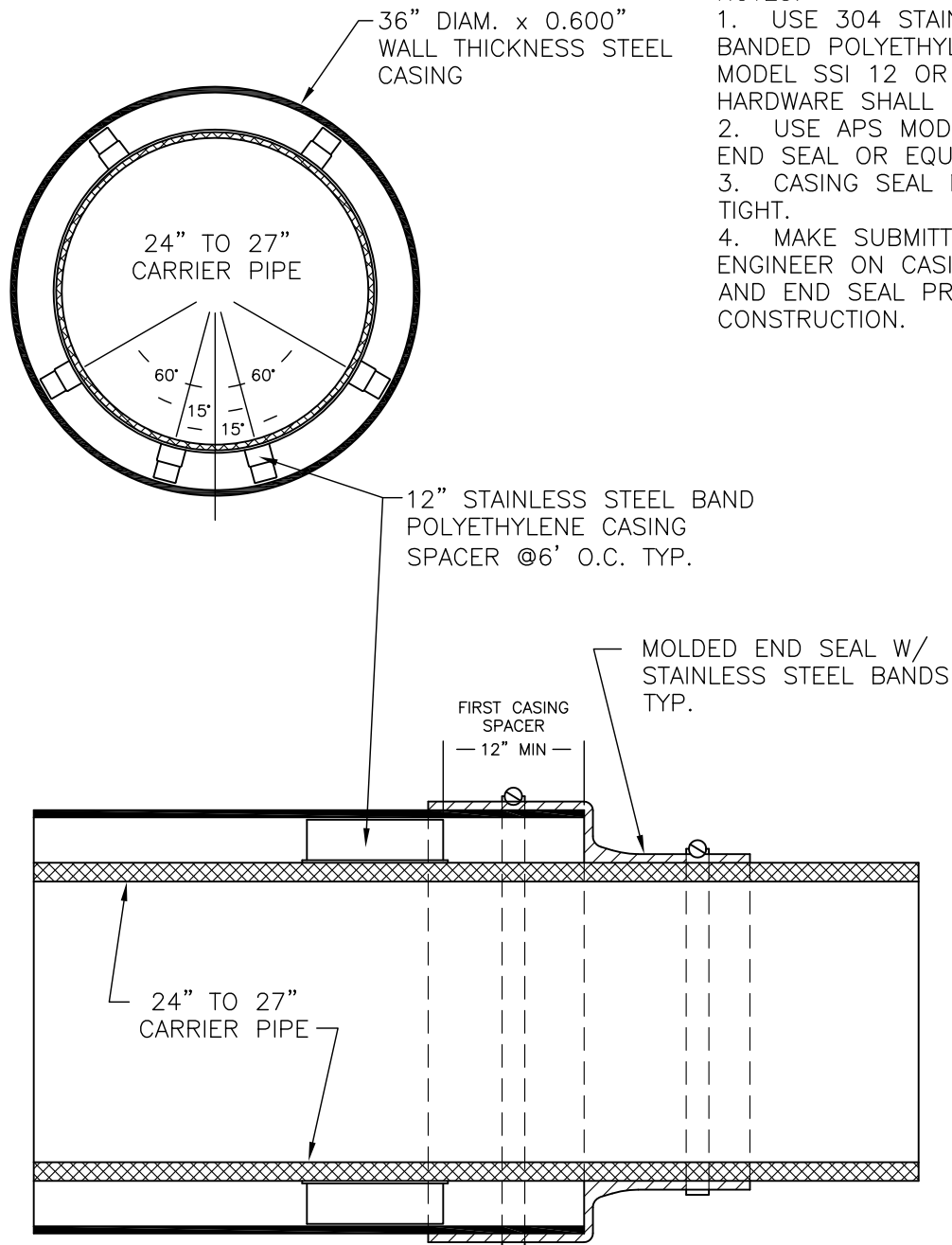
1/27/2006 Min. Trap Size

8/24/2020 C.O. PVC

SCALE: 1/3"=1'

DWG. NO.

**D10**



- NOTES:
1. USE 304 STAINLESS STEEL BANDED POLYETHYLENE SPACERS APS MODEL SSI 12 OR EQUAL. ALL HARDWARE SHALL BE 304 STAINLESS.
  2. USE APS MODEL AM MOLDED END SEAL OR EQUAL.
  3. CASING SEAL MUST BE WATER TIGHT.
  4. MAKE SUBMITTAL TO DISTRICT ENGINEER ON CASING PIPE, SPACERS AND END SEAL PRIOR TO CONSTRUCTION.

## DETAIL 36" DIAM. STEEL CASING AND 27" DIAM. CARRIER PIPE

COTTONWOOD IMPROVEMENT DISTRICT

36" STEEL CASING, 27" CARRIER

DATE: 4/3/2007

REVISIONS:

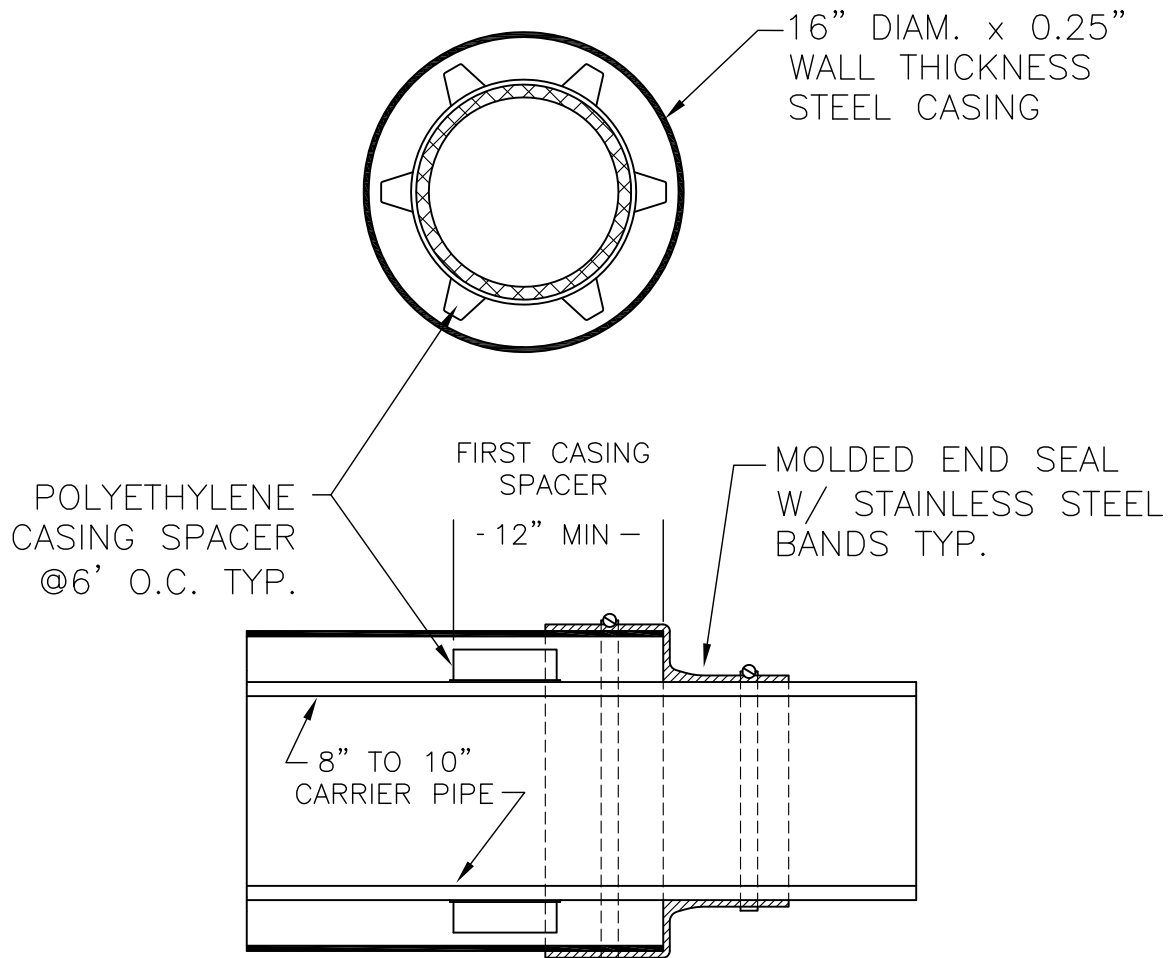
SCALE: 3/4" = 1'

DWG. NO.

D11A

NOTES:

1. USE POLYETHYLENE CASING SPACERS  
APS MODEL CI OR EQUAL. ALL HARDWARE  
SHALL BE 304 STAINLESS.
2. USE APS MODEL AM MOLDED END SEAL  
OR EQUAL.
3. CASING SEAL MUST BE WATER TIGHT.
4. MAKE SUBMITTAL TO DISTRICT ENGINEER  
ON CASING PIPE, SPACERS AND END SEAL  
PRIOR TO CONSTRUCTION.



DETAIL— 16" DIAM. STEEL  
CASING AND 8" TO 12" DIAM.  
CARRIER PIPE

COTTONWOOD IMPROVEMENT DISTRICT

DATE: 6/4/2007

DWG. NO.

REVISIONS:

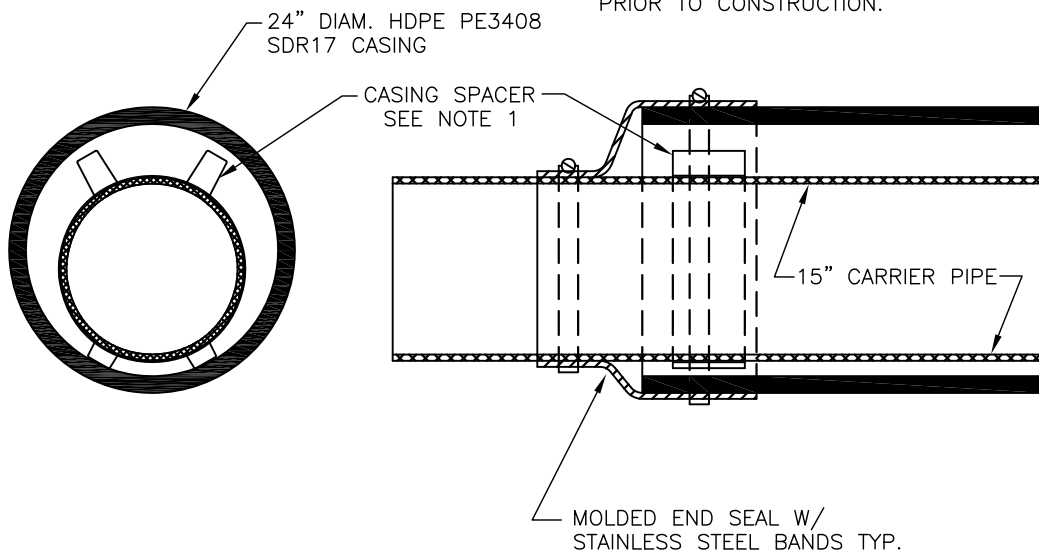
SCALE: 1"=1'

16" STEEL CASING, 8" - 10" CARRIER

D11B

NOTES:

1. USE 304 STAINLESS STEEL BANDED POLYETHYLENE SPACERS APS MODEL SSI 12 OR EQUAL. USE NON-CENTERED, RESTRAINED CONFIGURATION. ALL HARDWARE SHALL BE 304 STAINLESS. USE THREE PER LENGTH OF PIPE.
2. USE APS MODEL AM MOLDED END SEAL OR EQUAL. CASING SEAL MUST BE WATER TIGHT.
3. MAKE SUBMITTAL TO DISTRICT ENGINEER ON CASING PIPE, SPACERS AND END SEAL PRIOR TO CONSTRUCTION.



DETAIL — 24" DIAM. HDPE CASING  
AND 15" DIAM. PVC SDR35  
CARRIER PIPE

COTTONWOOD IMPROVEMENT DISTRICT

24" HDPE CASING, 15" CARRIER

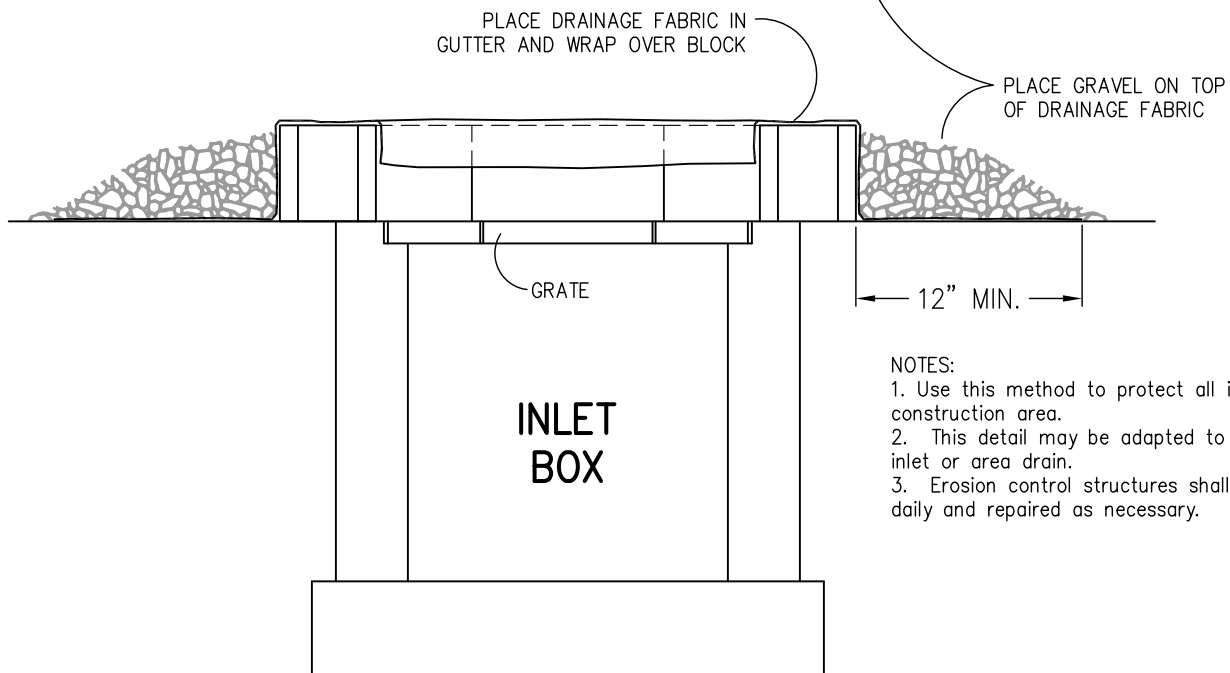
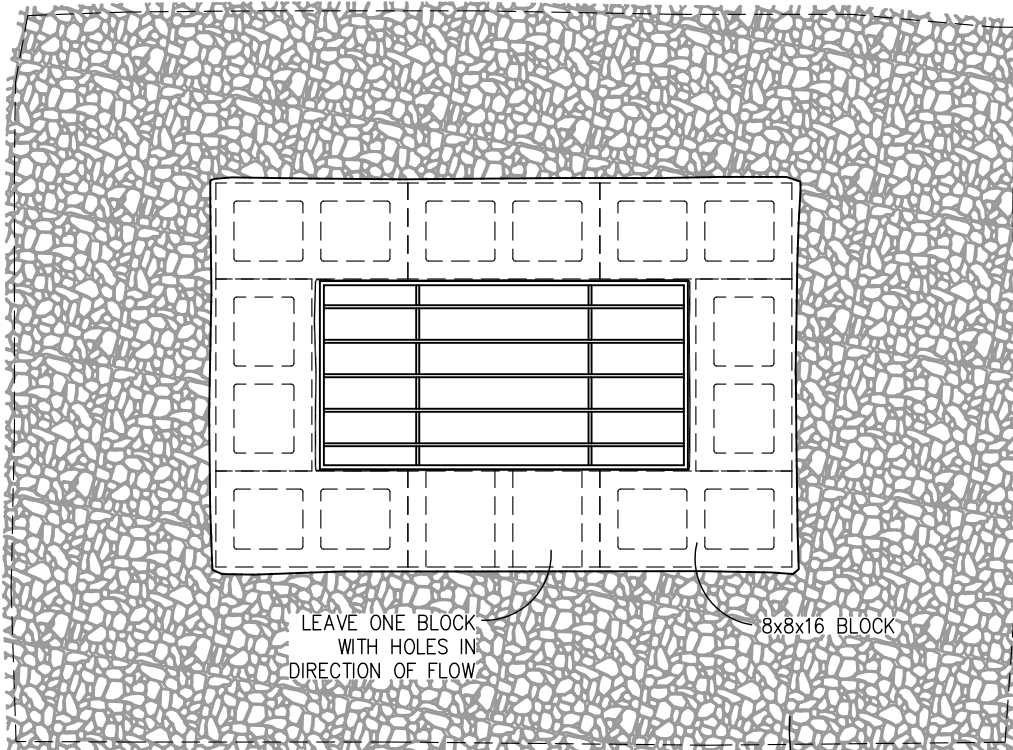
DATE: 9/24/20127

REVISIONS:

SCALE: 3/4"=1'

DWG. NO.

D11C



**NOTES:**

1. Use this method to protect all inlets in construction area.
2. This detail may be adapted to protect a curb inlet or area drain.
3. Erosion control structures shall be inspected daily and repaired as necessary.

**COTTONWOOD IMPROVEMENT DISTRICT**

**EROSION CONTROL - INLET**

DATE: 6/22/2005

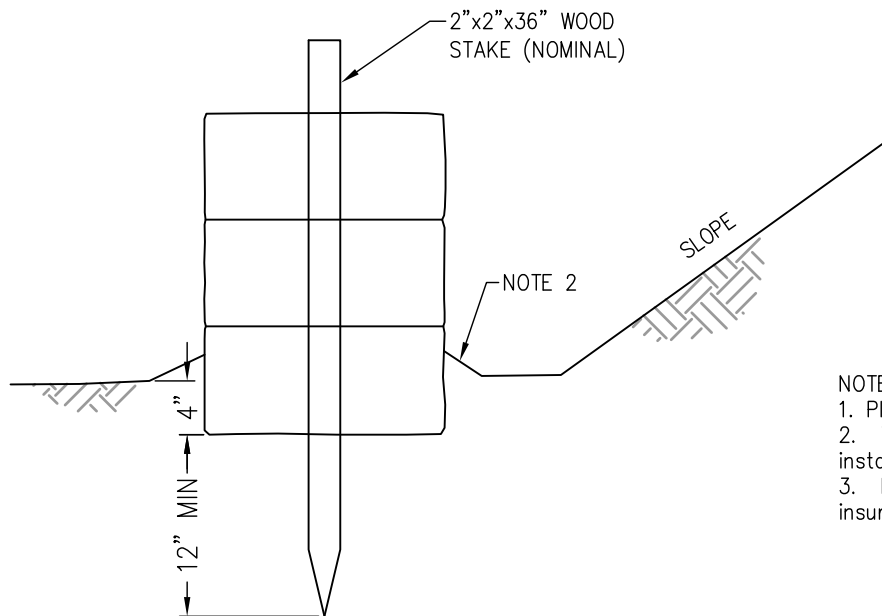
REVISIONS:

SCALE: 3/4"=1'

**DWG. NO.**

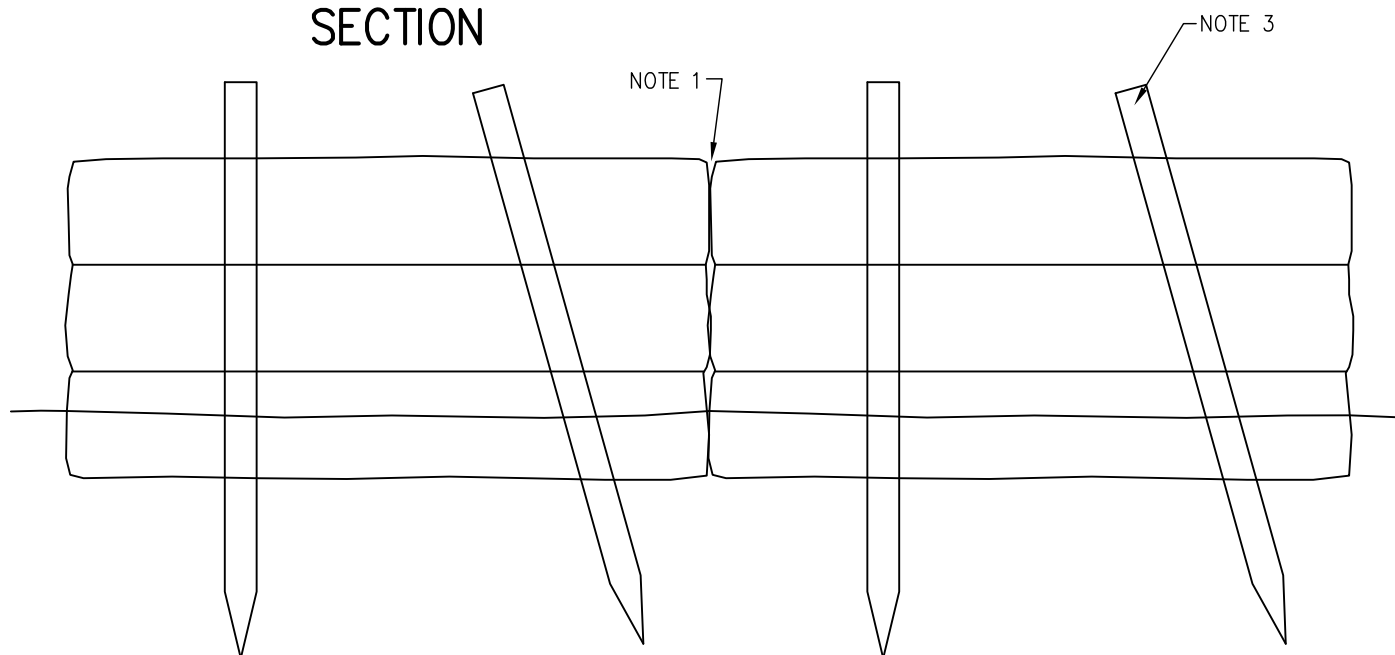
**D12A**



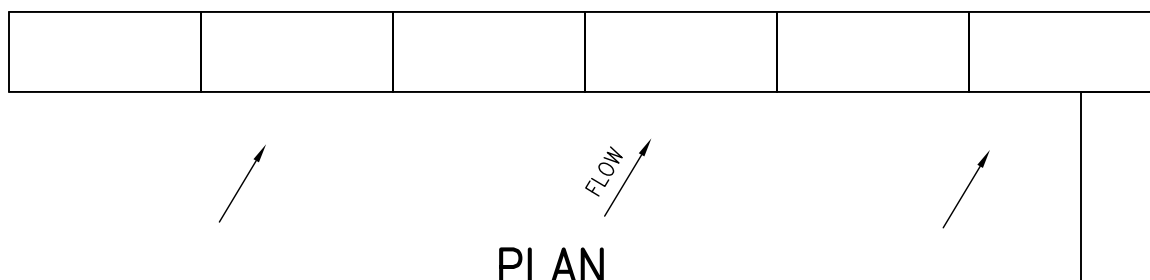


- NOTES:
1. Place straw bales tightly together.
  2. Tamp embedment spoils against sides of installed bales..
  3. Drive angled stake before vertical stake to insure tight abutment between bales.

SECTION



PROFILE



PLAN

COTTONWOOD IMPROVEMENT DISTRICT

EROSION CONTROL - STRAW BALES

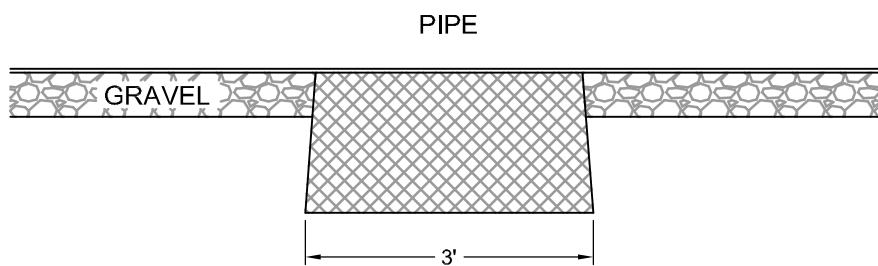
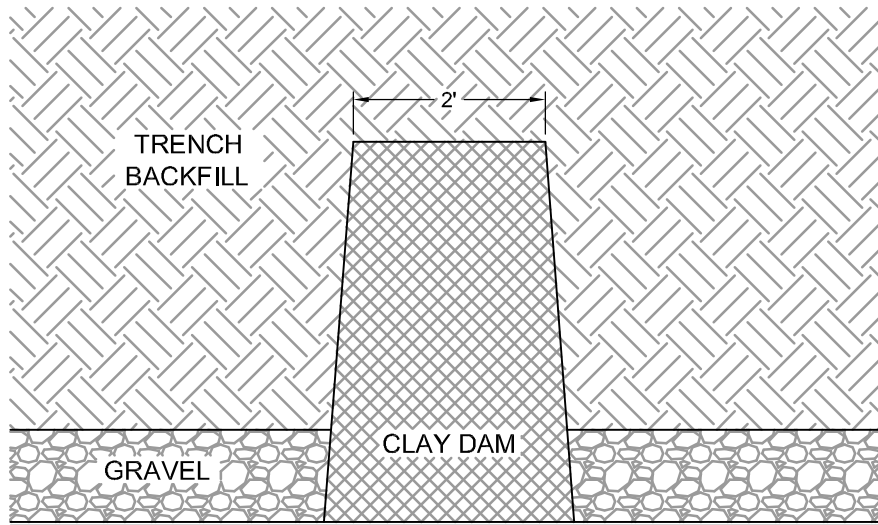
DATE: 6/22/2005

REVISIONS:

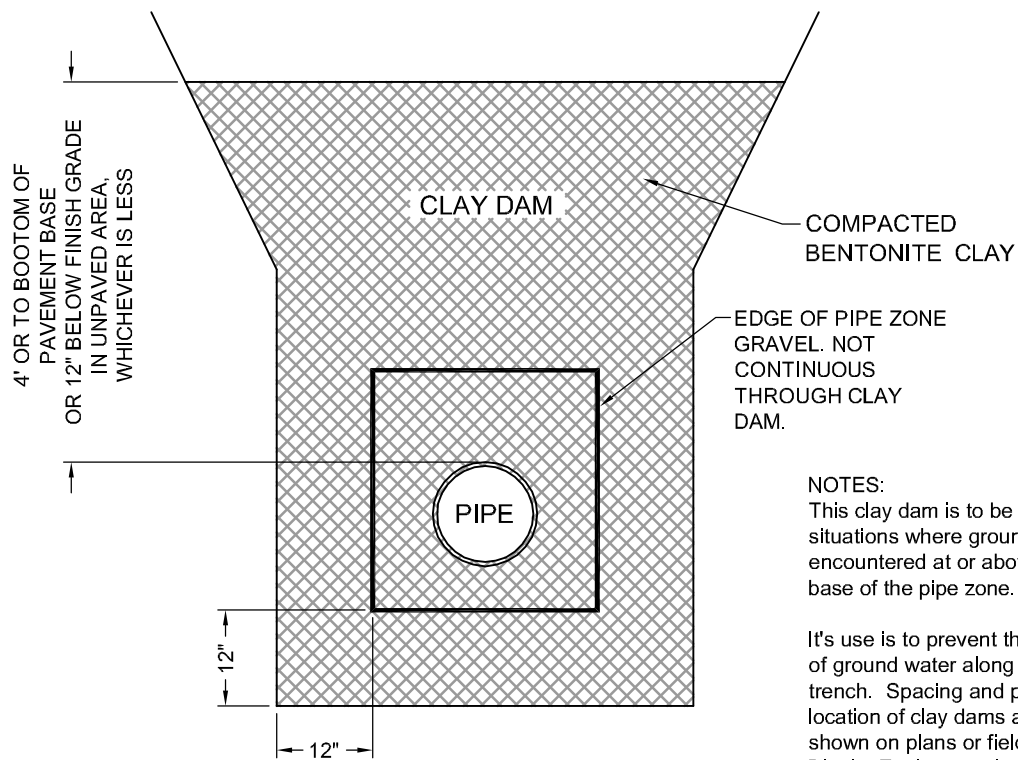
SCALE: NO SCALE

DWG. NO.

D12B



PROFILE



SECTION

NOTES:

This clay dam is to be used in situations where ground water is encountered at or above the gravel base of the pipe zone.

It's use is to prevent the migration of ground water along the sewer trench. Spacing and precise location of clay dams are to be shown on plans or field-specified by District Engineer or Inspector.

COTTONWOOD IMPROVEMENT DISTRICT

DETAIL - CLAY DAM

DATE: 1/30/2007

REVISIONS:

SCALE:

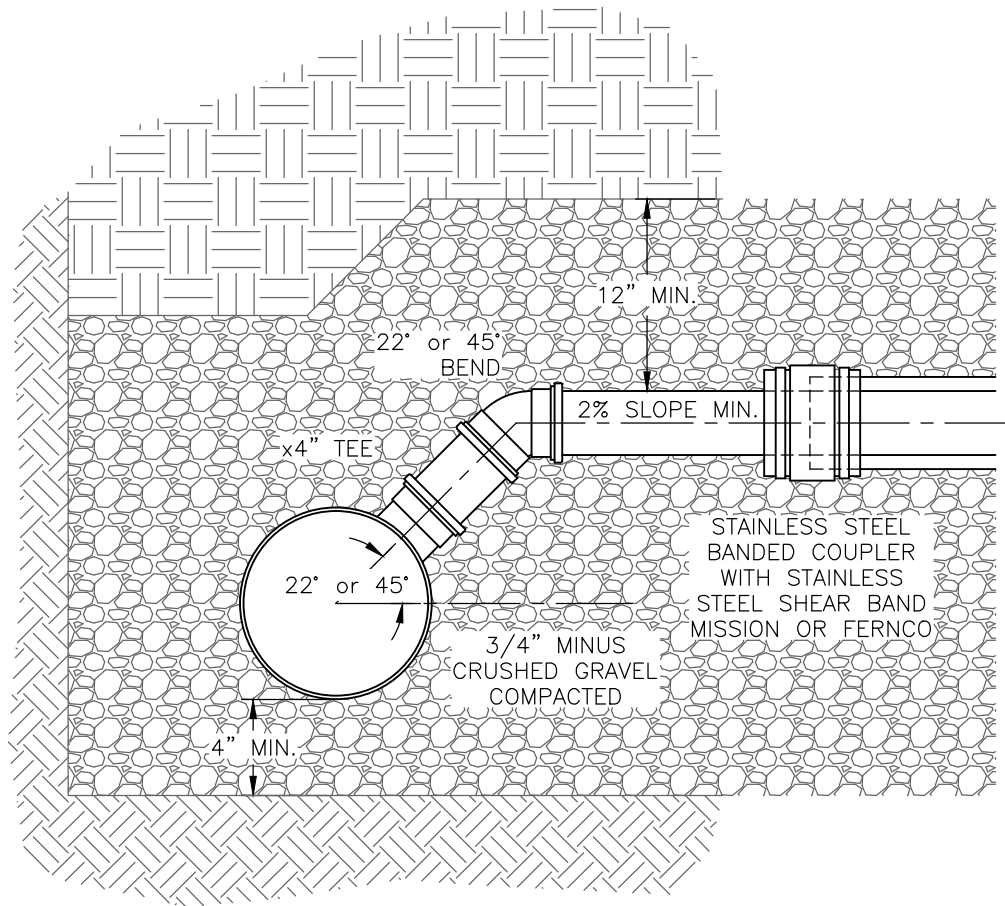
nts

DWG. NO.

D13

NOTES:

1. IF SPECIAL CIRCUMSTANCES SUGGEST DEVIATING FROM THIS DETAIL, THE DISTRICT INSPECTOR OR ENGINEER MUST APPROVE CHANGES.
2. SLICE UNDER HAUNCHES OF PIPE TO FILL VOIDS. MECHANICALLY COMPACT GRAVEL.



SECTION

COTTONWOOD IMPROVEMENT DISTRICT

SERVICE LINE RE-CONNECTION

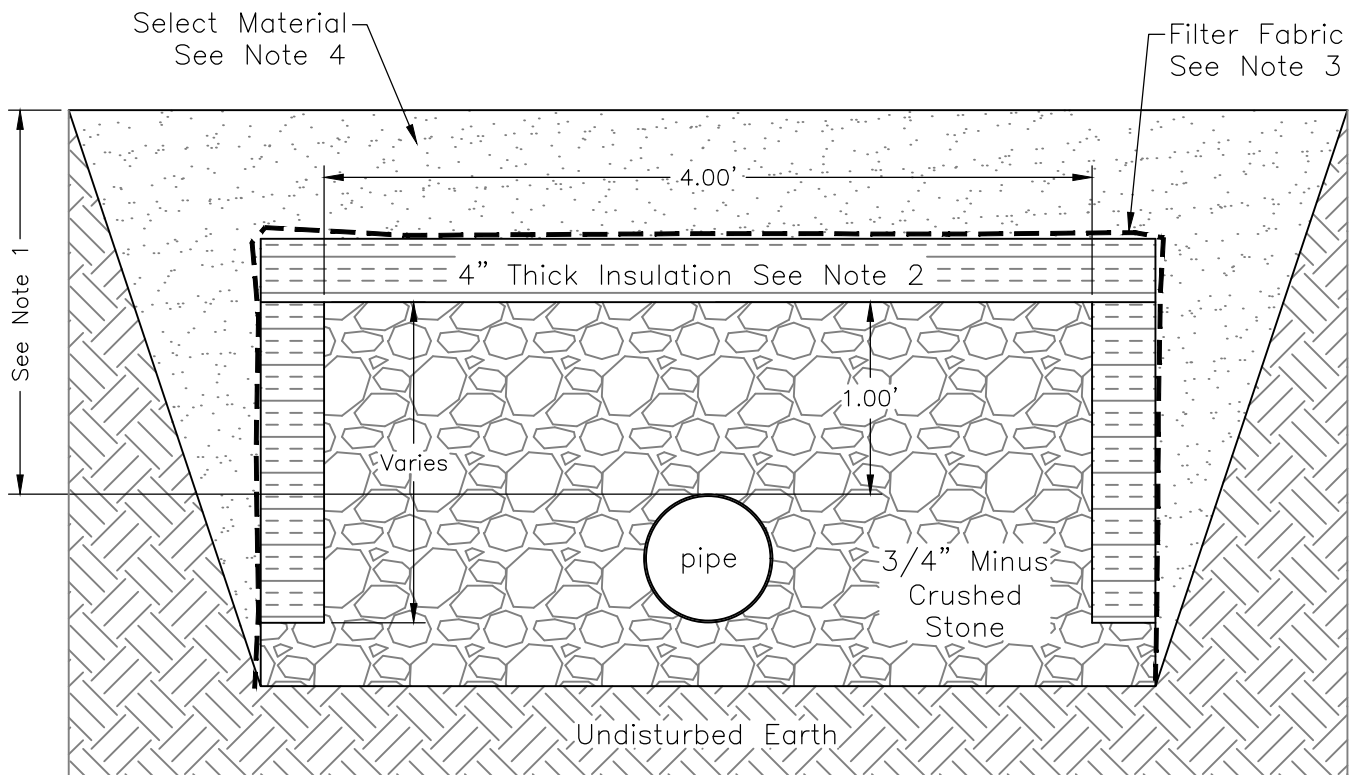
DATE: 2/4/2013

REVISIONS:

SCALE: 1" = 1'

DWG. NO.

D14



Notes:

1. Minimum cover from top of pipe to finish grade:  
     Valley Areas   2.0'  
     Canyon Areas   3.0'
2. Insulation – Use DOW STYROFOAM HIGHLOAD 100 psi Insulation or equal.
3. Filter Fabric – Use Mirafi 140N or equal.
4. Select Material – 1" minus, well graded, OR untreated base course and pavement.

COTTONWOOD IMPROVEMENT DISTRICT

FROST PROTECTION

DATE: 5/7/2020

REVISIONS:

SCALE: 1"=1'

DWG. NO.

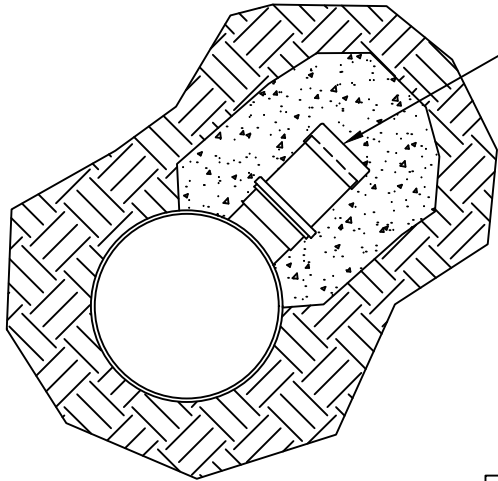
D15

NOTES:

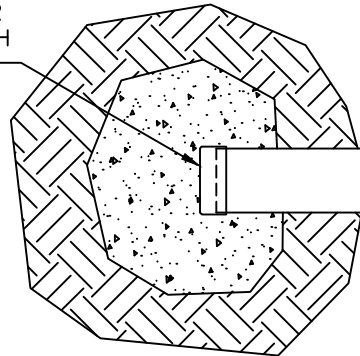
1. This detail is to abandon a sewer service line when it will no longer be used. Cap-off must occur at property line or just upstream of District main line. Cap-off location is at the discretion of the District Engineer or District Inspector.
2. Make straight, clean, and perpendicular cut to existing pipe.
3. Surround cap with concrete.
4. For HDPE pipe: Fusion weld HDPE Cap to existing pipe. Concrete cap not required.

AT DISTRICT MAIN

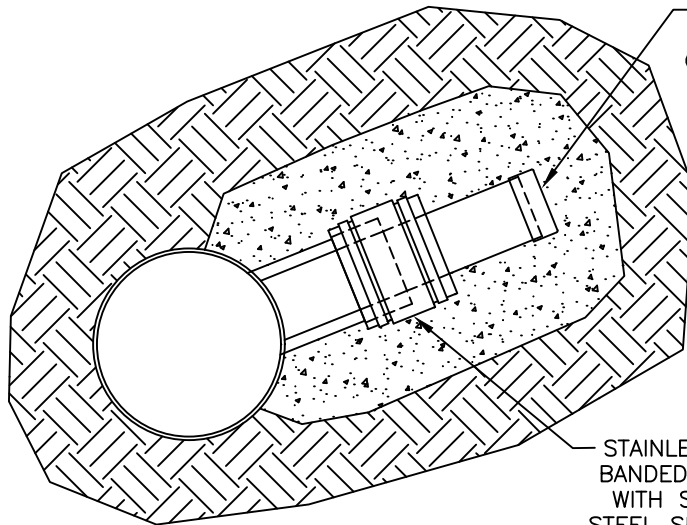
AT PROPERTY LINE



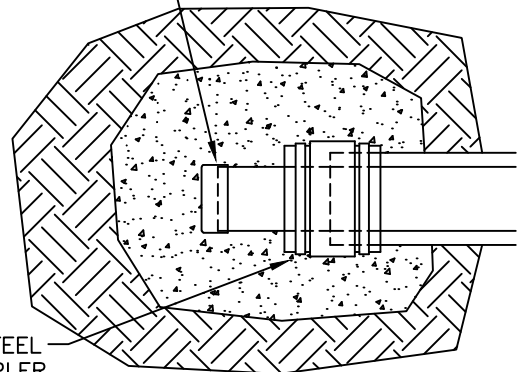
SOLVENT-WELD OR  
GASKETED CAP WITH  
CONCRETE COVER



PVC Pipe



PVC STUB AND  
SOLVENT-WELD OR  
GASKETED CAP WITH  
CONCRETE COVER



STAINLESS STEEL  
BANDED COUPLER  
WITH STAINLESS  
STEEL SHEAR BAND  
MISSION OR FERNCO

Clay, Concrete, Ductile Iron, or  
Transite Pipe

COTTONWOOD IMPROVEMENT DISTRICT

SERVICE LINE CAP-OFF

DATE: 2/15/2022

REVISIONS:

SCALE:

1"=1'

DWG. NO.

D16