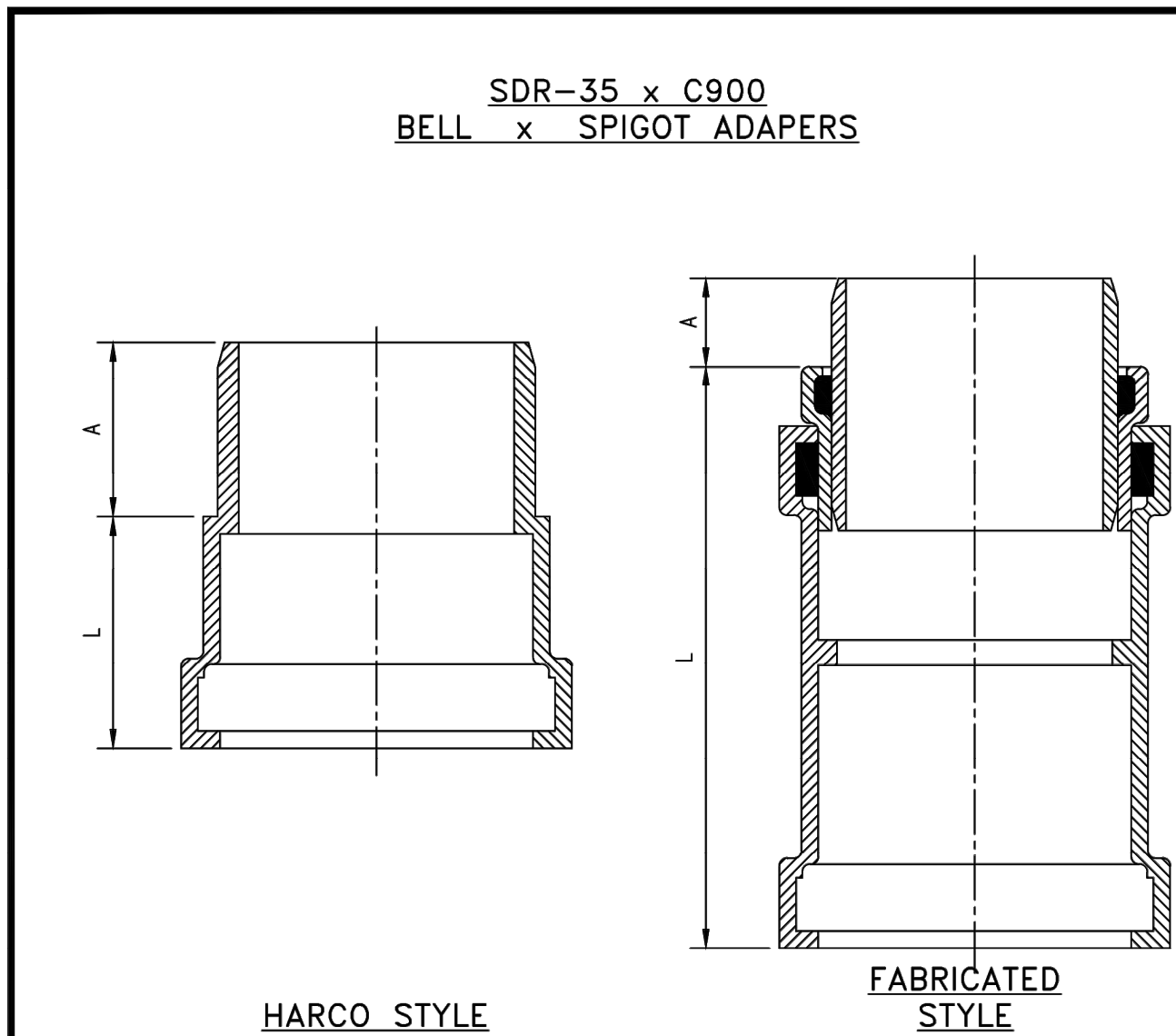


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ISSUE	REMARKS/DATE
1	2024-08-13, INITIAL SUBMITTAL CITY PH.2
2	2024-11-08, REVISED PER CITY COMMENTS
3	2024-01-03, REVISED PER CITY COMMENTS
4	2024-02-04, REVISED PER CITY COMMENTS



SIZE	CATALOG NO.	A	L	STYLE
4"	335-040	3.2	10.0	FABRICATED
6"	335-060	2.9	3.5	HARCO
8"	335-080	4.0	12.5	FABRICATED

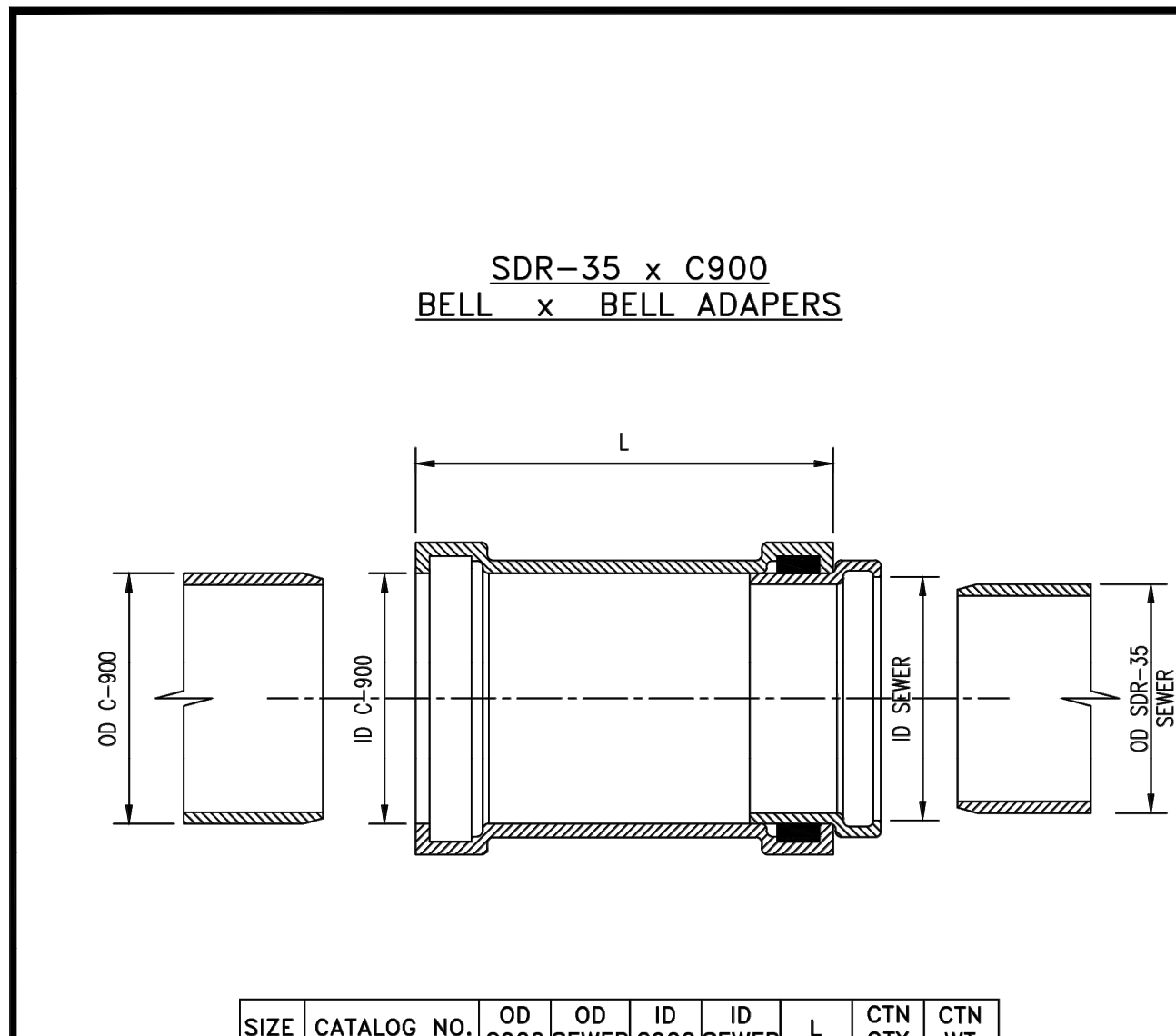


Duckett Creek Sanitary District

SDR-35 x C900
BELL AND SPIGOT
SPECIAL 4", 6" 8" ADAPTORS

Own By: BSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
19B



SIZE	CATALOG NO.	OD C900 SEWER	OD C900 SEWER	ID C900 SEWER	ID C900 SEWER	L	CTN QTY	CTN WT
4x4	337-040	4.80	4.215	4.86	4.25	10.0	1	4
6x6	337-060	6.90	6.275	6.96	6.32	11.13	1	8
8x8	337-080	9.05	8.400	9.13	8.45	12.50	1	15

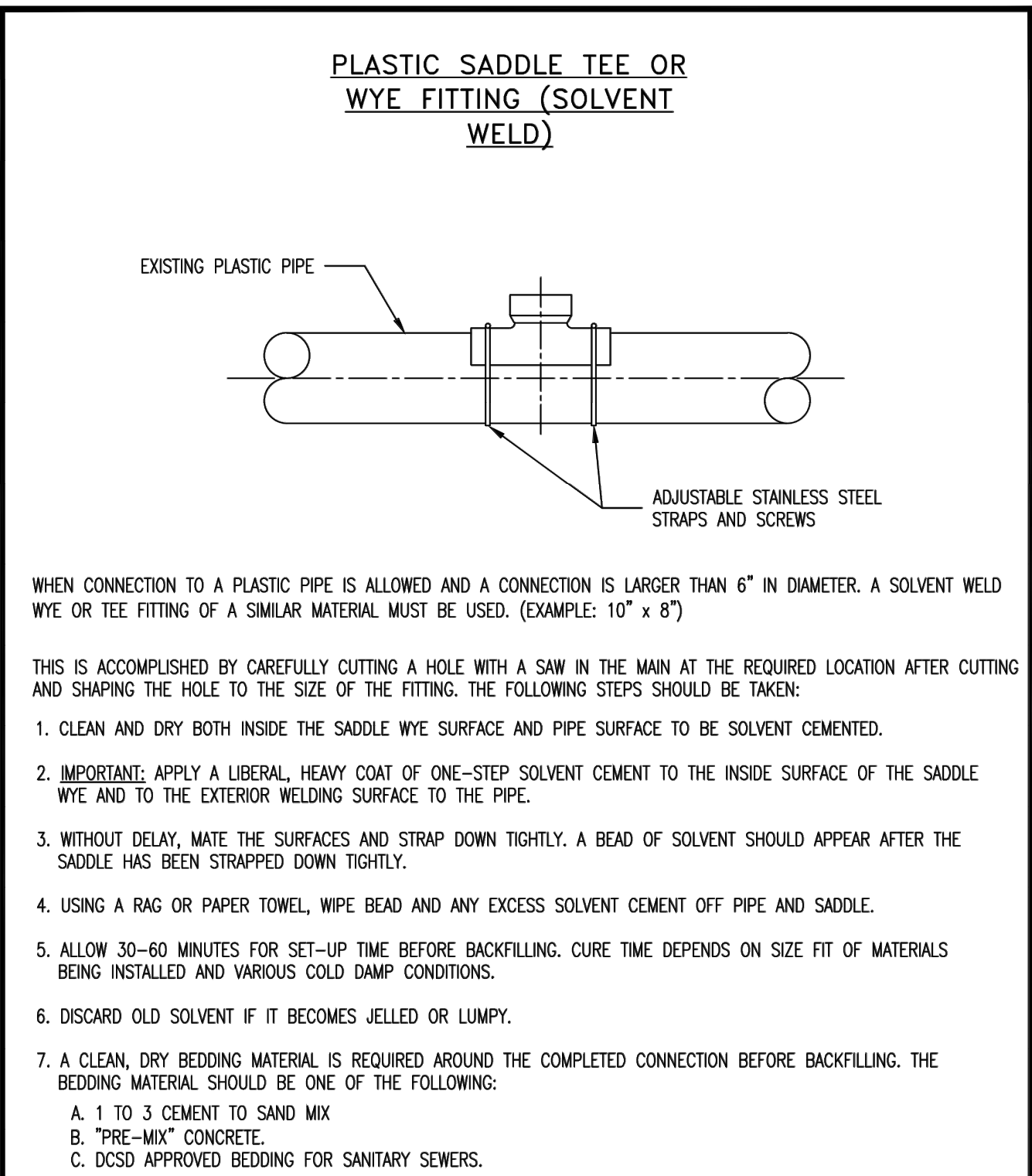


Duckett Creek Sanitary District

SDR-35 x C900
BELL AND BELL
4", 6" & 8" ADAPTORS

Own By: BSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
19C



- WHEN CONNECTION TO A PLASTIC PIPE IS ALLOWED AND A CONNECTION IS LARGER THAN 6" IN DIAMETER, A SOLVENT WELD WYE OR TEE FITTING OF A SIMILAR MATERIAL MUST BE USED. (EXAMPLE: 10" x 8")
- THIS IS ACCOMPLISHED BY CAREFULLY CUTTING A HOLE WITH A SAW IN THE MAIN AT THE REQUIRED LOCATION AFTER CUTTING AND SHAPING THE HOLE TO THE SIZE OF THE FITTING. THE FOLLOWING STEPS SHOULD BE TAKEN:
- CLEAN AND DRY BOTH INSIDE THE SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
 - IMPORTANT: APPLY A LIBERAL, HEAVY COAT OF ONE-STEP SOLVENT CEMENT TO THE INSIDE SURFACE OF THE SADDLE WYE AND TO THE EXTERIOR WELDING SURFACE TO THE PIPE.
 - WITHOUT DELAY, MATE THE SURFACES AND STRAP DOWN TIGHTLY. A BEAD OF SOLVENT SHOULD APPEAR AFTER THE SADDLE HAS BEEN STRAPPED DOWN TIGHTLY.
 - USING A RAG OR PAPER TOWEL, WIPE BEAD AND ANY EXCESS SOLVENT CEMENT OFF PIPE AND SADDLE.
 - ALLOW 30-60 MINUTES FOR SET-UP TIME BEFORE BACKFILLING. CURE TIME DEPENDS ON SIZE FIT OF MATERIALS BEING INSTALLED AND VARIOUS COLD DAMP CONDITIONS.
 - DISCARD OLD SOLVENT IF IT BECOMES JELLED OR LUMPY.
 - A CLEAN, DRY BEDDING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEDDING MATERIAL SHOULD BE ONE OF THE FOLLOWING:
 - 1 TO 3 CEMENT TO SAND MIX
 - "PRE-MIX" CONCRETE.
 - DCSD APPROVED BEDDING FOR SANITARY SEWERS.

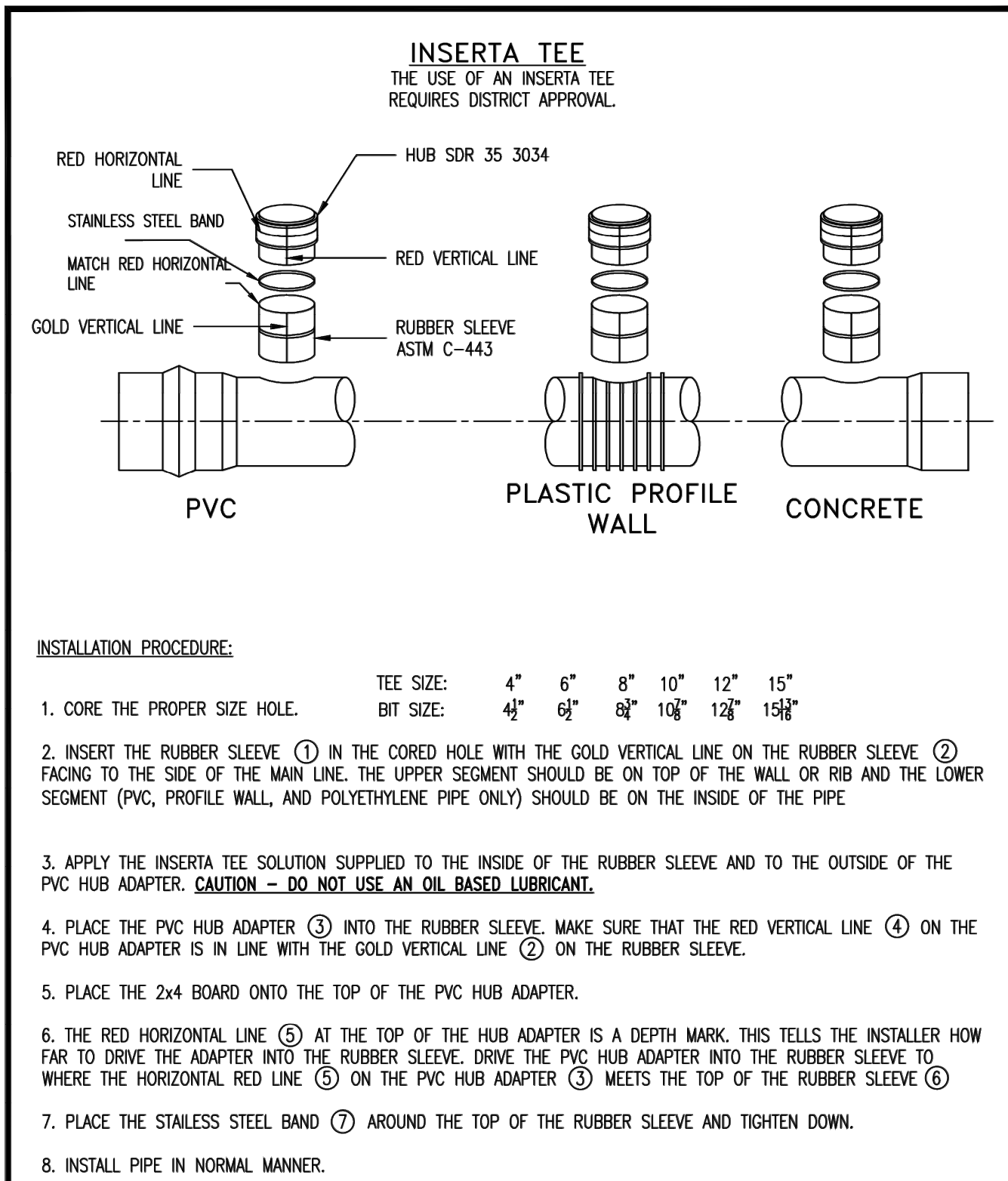


Duckett Creek Sanitary District

8" AND LARGER
CONNECTION TO
PLASTIC MAIN

Own By: BSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
20A



- INSTALLATION PROCEDURE:
- TEE SIZE: 4" 6" 8" 10" 12" 15"
BIT SIZE: 4 1/2" 6 1/2" 8 1/2" 10 1/8" 12 1/8" 15 1/8"
- CORE THE PROPER SIZE HOLE.
 - INSERT THE RUBBER SLEEVE ① IN THE CORED HOLE WITH THE GOLD VERTICAL LINE ON THE RUBBER SLEEVE ② FACING TO THE SIDE OF THE MAIN LINE. THE UPPER SEGMENT SHOULD BE ON TOP OF THE WALL OR RIB AND THE LOWER SEGMENT (PVC, PROFILE WALL, AND POLYETHYLENE PIPE ONLY) SHOULD BE ON THE INSIDE OF THE PIPE.
 - APPLY THE INSERTA TEE SOLUTION SUPPLIED TO THE INSIDE OF THE RUBBER SLEEVE AND TO THE OUTSIDE OF THE PVC HUB ADAPTER. CAUTION - DO NOT USE AN OIL BASED LUBRICANT.
 - PLACE THE PVC HUB ADAPTER ③ INTO THE RUBBER SLEEVE. MAKE SURE THAT THE RED VERTICAL LINE ④ ON THE PVC HUB ADAPTER IS IN LINE WITH THE GOLD VERTICAL LINE ② ON THE RUBBER SLEEVE.
 - PLACE THE 2x4 BOARD ONTO THE TOP OF THE PVC HUB ADAPTER.
 - THE RED HORIZONTAL LINE ⑤ AT THE TOP OF THE HUB ADAPTER IS A DEPTH MARK. THIS TELLS THE INSTALLER HOW FAR TO DRIVE THE ADAPTER INTO THE RUBBER SLEEVE. DRIVE THE PVC HUB ADAPTER INTO THE RUBBER SLEEVE TO WHERE THE HORIZONTAL RED LINE ⑤ ON THE PVC HUB ADAPTER ③ MEETS THE TOP OF THE RUBBER SLEEVE ②.
 - PLACE THE STAINLESS STEEL BAND ⑦ AROUND THE TOP OF THE RUBBER SLEEVE AND TIGHTEN DOWN.
 - INSTALL PIPE IN NORMAL MANNER.

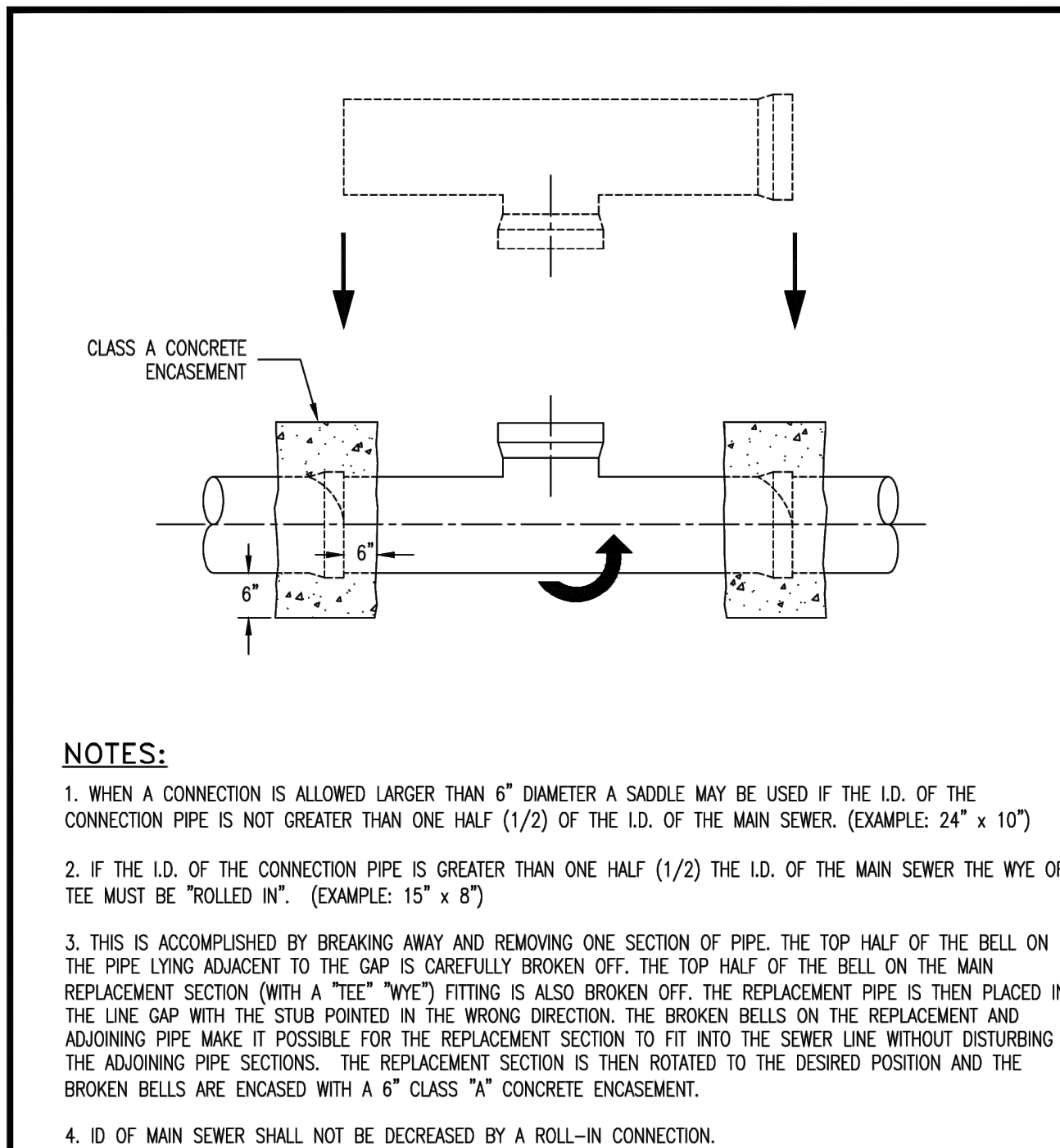


Duckett Creek Sanitary District

INSERTA TEE
DETAILS AND
SPECIFICATIONS

Own By: BSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
20B



- NOTES:
- WHEN A CONNECTION IS ALLOWED LARGER THAN 6" DIAMETER A SADDLE MAY BE USED IF THE I.D. OF THE CONNECTION PIPE IS NOT GREATER THAN ONE HALF (1/2) OF THE I.D. OF THE MAIN SEWER. (EXAMPLE: 24" x 10")
 - IF THE I.D. OF THE CONNECTION PIPE IS GREATER THAN ONE HALF (1/2) THE I.D. OF THE MAIN SEWER THE WYE OR TEE MUST BE "ROLLED IN". (EXAMPLE: 15" x 8")
 - THIS IS ACCOMPLISHED BY BREAKING AWAY AND REMOVING ONE SECTION OF PIPE. THE TOP HALF OF THE BELL ON THE PIPE LYING ADJACENT TO THE GAP IS CAREFULLY BROKEN OFF. THE TOP HALF OF THE BELL ON THE MAIN REPLACEMENT SECTION (WITH A "TEE" WYE) FITTING IS ALSO BROKEN OFF. THE REPLACEMENT PIPE IS THEN PLACED IN THE LINE GAP WITH THE STUB POINTED IN THE WRONG DIRECTION. THE BROKEN BELLS ON THE REPLACEMENT AND ADJOINING PIPE MAKE IT POSSIBLE FOR THE REPLACEMENT SECTION TO FIT INTO THE SEWER LINE WITHOUT DISTURBING THE ADJOINING PIPE SECTIONS. THE REPLACEMENT SECTION IS THEN ROTATED TO THE DESIRED POSITION AND THE BROKEN BELLS ARE ENCASED WITH A 6" CLASS "A" CONCRETE ENCASEMENT.
 - ID OF MAIN SEWER SHALL NOT BE DECREASED BY A ROLL-IN CONNECTION.

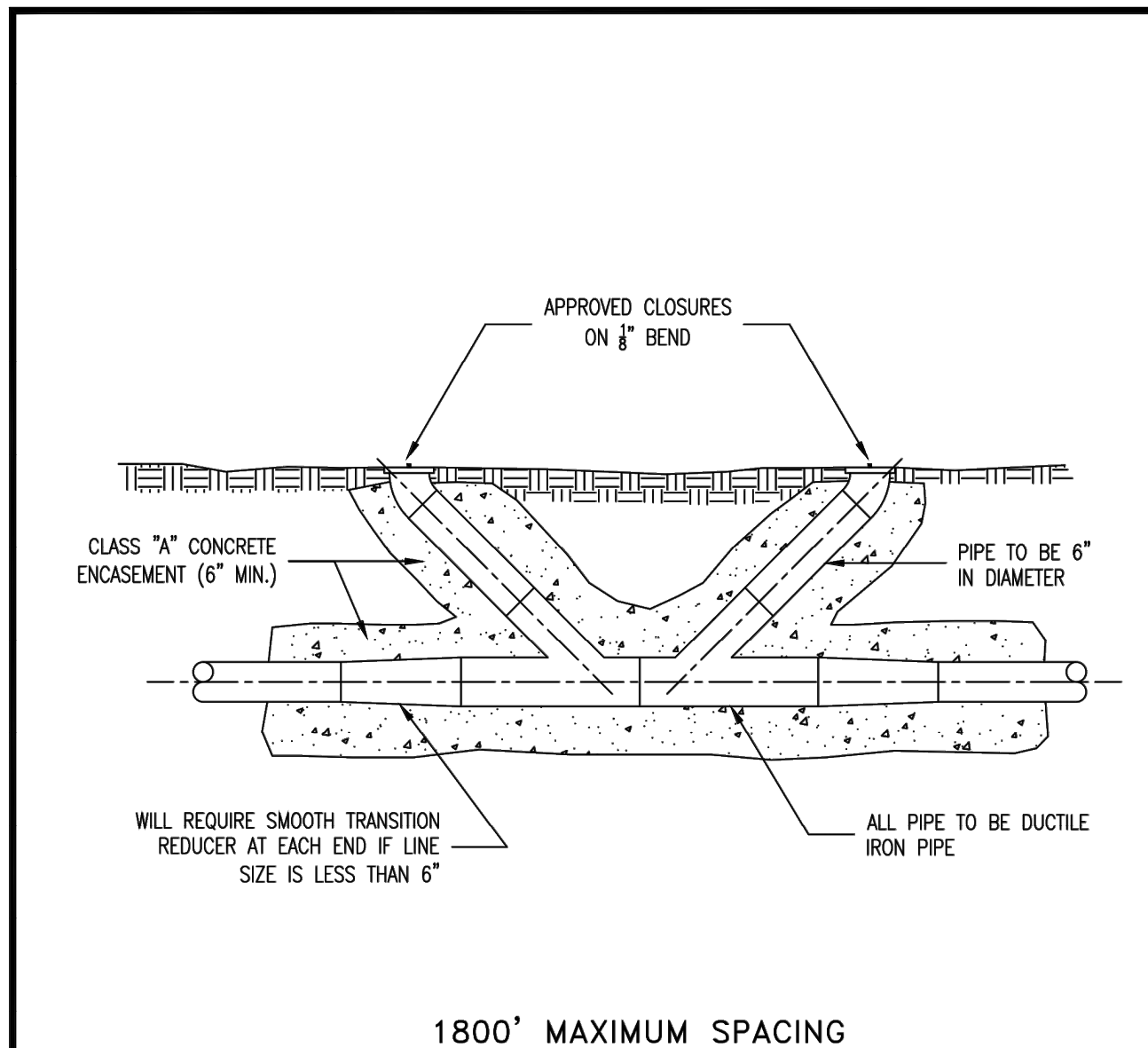


Duckett Creek Sanitary District

ROLL-IN
(FOR EXISTING CLAY
OR CONCRETE PIPE)

Own By: BSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
21



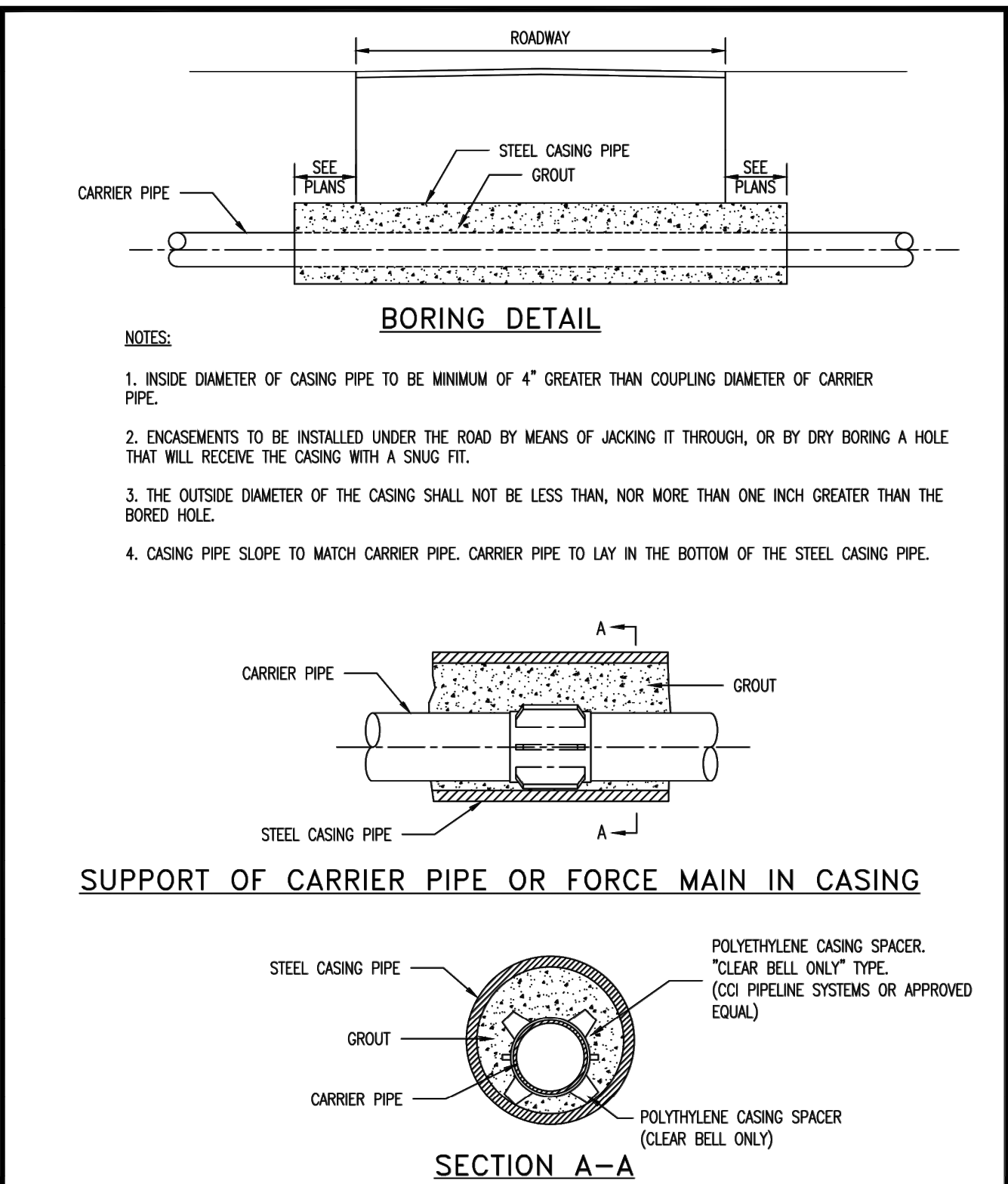


Duckett Creek Sanitary District

FORCE MAIN
CLEANOUT
6" DIAMETER & SMALLER

Own By: BSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
22



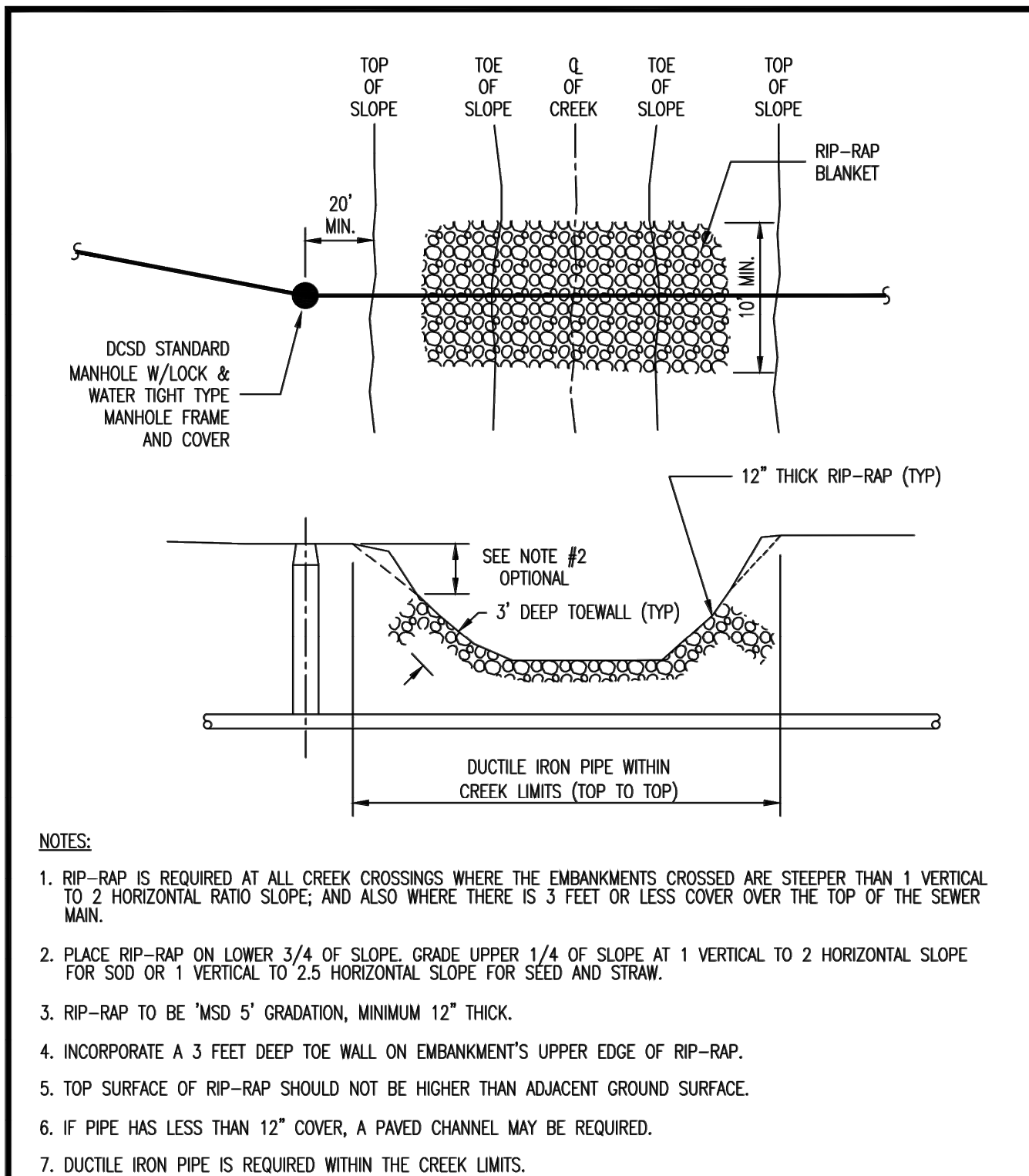


Duckett Creek Sanitary District

ROADWAY BORING DETAIL

Own By: MSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
23





Duckett Creek Sanitary District

TYPICAL CREEK CROSSING

Own By: BSM
App By: KA
Ckd By: MDOB
Date: DEC. 2015

Detail No.
24

PROJECT TITLE

HARVEST
AT HOPEWELL

O'Fallon PHASE 2
O'Fallon, Missouri

THE **STERLING** CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-survey.com
Corporate Certificate of Authority #001348



Date: 02-04-2025
Michael G. Boerding
License No. MO E-28643
Professional Engineer

HARVEST HOPEWELL, LLC
5091 New Baumgartner Road
St. Louis, Missouri 63129

DCSD SANITARY DETAILS

P+Z No. 21-004994
City No. 21-011444
Date: 02-04-2025
Job No. 20-09-327

Page No.

DTL-5

IMP