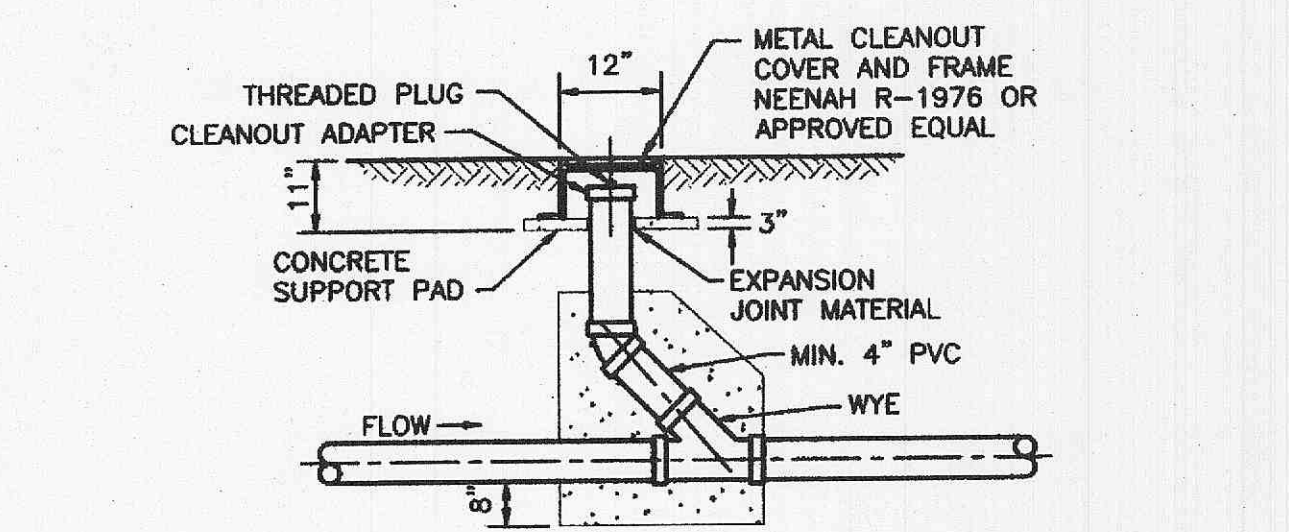


- NOTES:
- GROUTED RIP-RAP IS REQUIRED AT ALL CREEK CROSSINGS WHERE THE EMBANKMENTS CROSSED ARE STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL RATIO SLOPE; AND ALSO WHERE THERE IS 3 FEET OR LESS COVER OVER THE TOP OF THE SEWER MAIN.
 - PLACE RIP-RAP ON LOWER 3/4 OF SLOPE. GRADE UPPER 1/4 OF SLOPE AT 1 VERTICAL TO 2 HORIZONTAL SLOPE FOR SOD OR 1 VERTICAL TO 2.5 HORIZONTAL SLOPE FOR SEED AND STRAW.
 - RIP-RAP TO BE "MSD 5" GRADATION, MINIMUM 12" THICK, GROUTED WITH 8 SACK MIX, SAND-CEMENT SLURRY, BROOM FINISH.
 - INCORPORATE A 3 FEET DEEP TOE WALL ON EMBANKMENT'S UPPER EDGE OF RIP-RAP.
 - TOP SURFACE OF RIP-RAP SHOULD NOT BE HIGHER THAN ADJACENT GROUND SURFACE.
 - IF PIPE HAS LESS THAN 12" COVER, A PAVED CHANNEL MAY BE REQUIRED.
 - DUCTILE IRON PIPE IS REQUIRED WITHIN THE CREEK LIMITS.

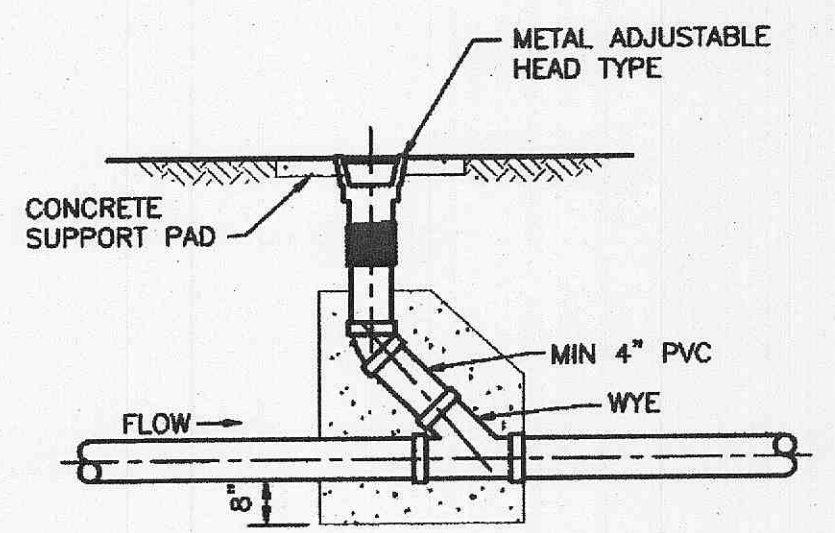
Duckett Creek Sanitary District

TYPICAL CREEK CROSSING

Dim By: BSM	App By: KLA	Detail No. 24
Clad By: MDOB	Date: 1-8-01	



METAL FRAME AND COVER TYPE CLEANOUT

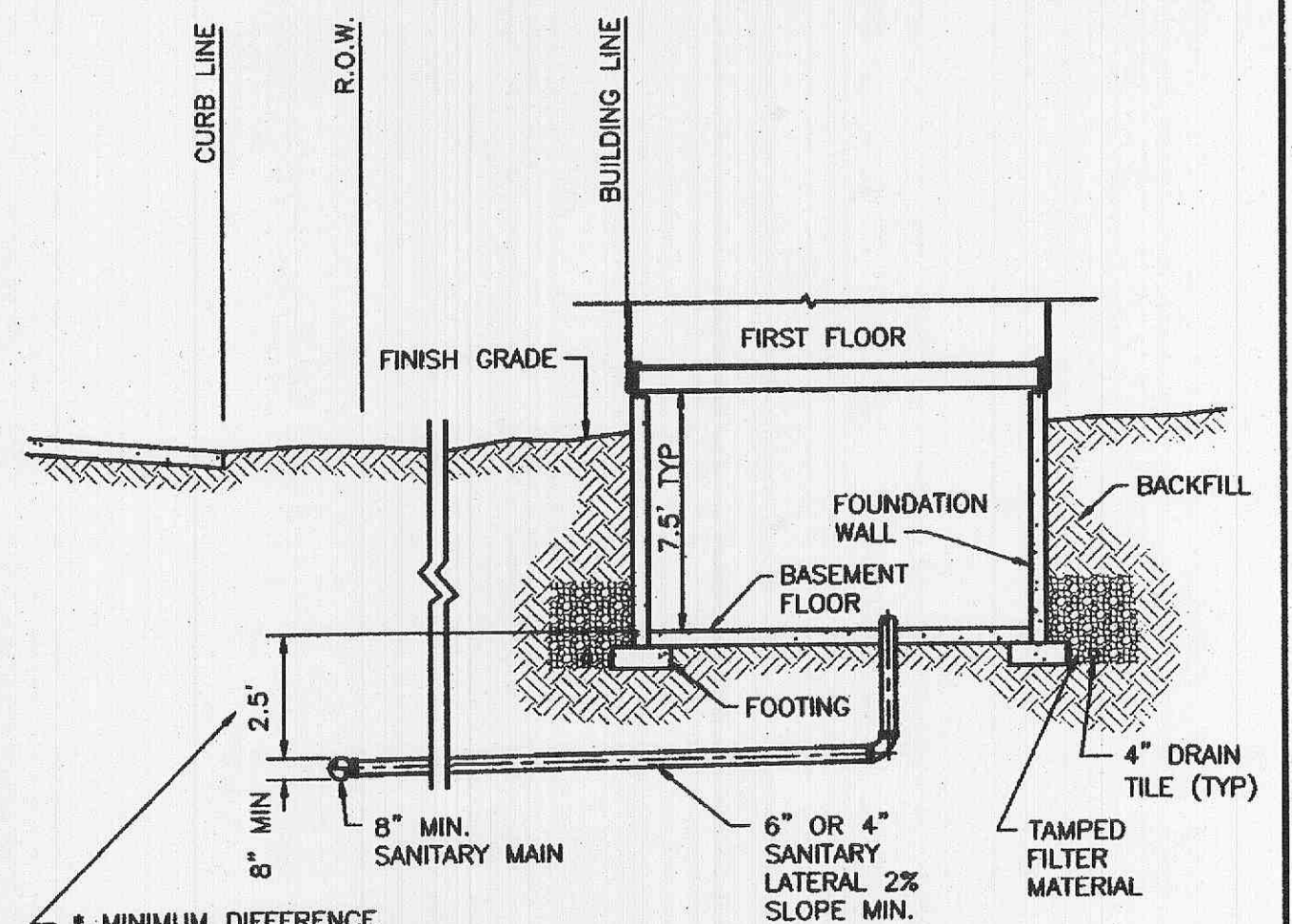


ADJUSTABLE HEAD TYPE CLEANOUT

Duckett Creek Sanitary District

TYPICAL SEWER LATERAL CLEANOUT DETAILS

Dim By: BSM	App By: KLA	Detail No. 25
Clad By: MDOB	Date: 1-8-01	

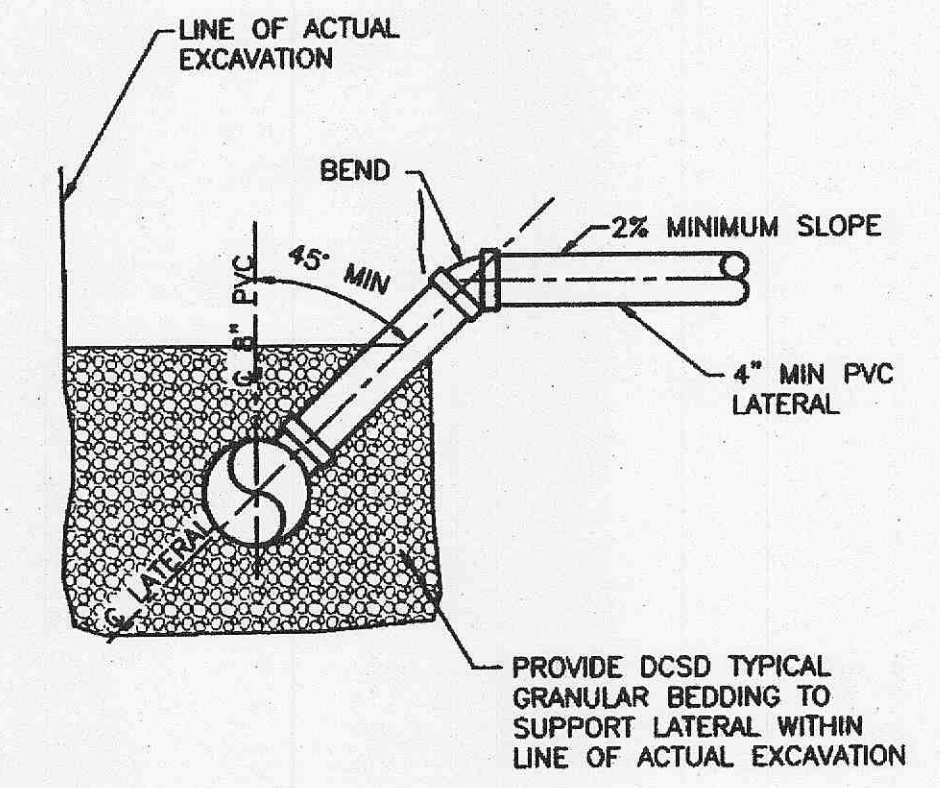


*NOTE: DIFFERENCE IN DEPTH INCREASES WITH PIPE SIZE

Duckett Creek Sanitary District

TYPICAL SANITARY SEWER LATERAL PROFILE

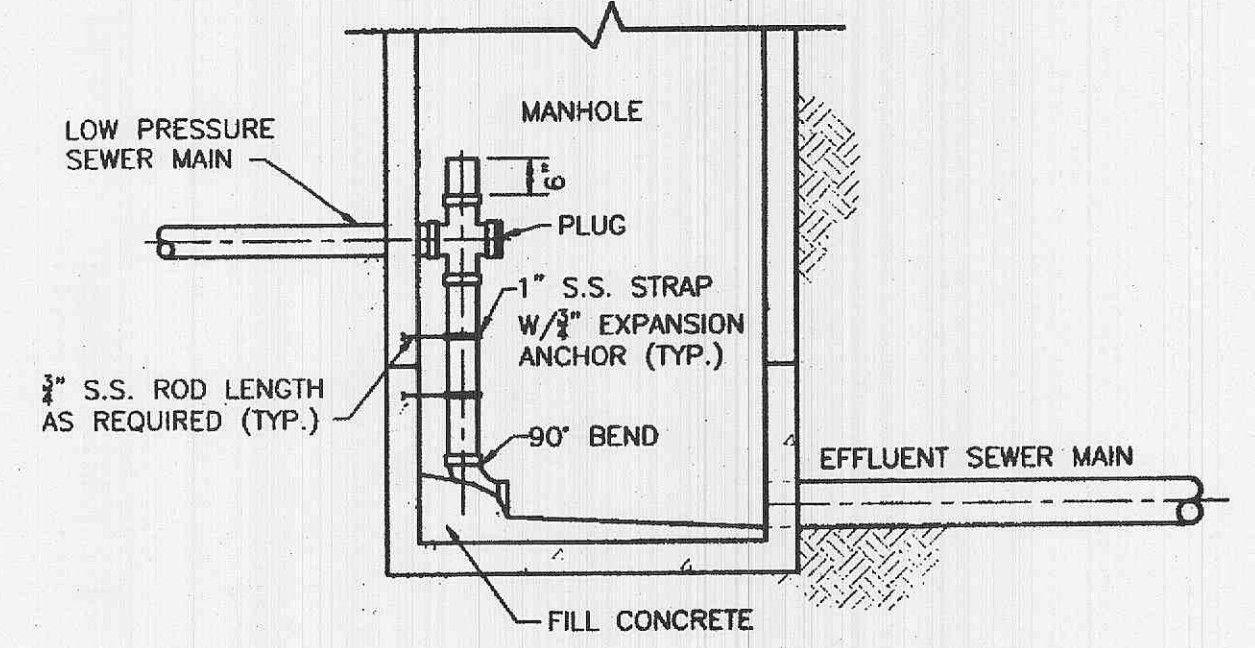
Dim By: BSM	App By: KLA	Detail No. 26
Clad By: MDOB	Date: 1-9-01	



Duckett Creek Sanitary District

SANITARY SEWER LATERAL RISER DETAIL

Dim By: BSM	App By: KLA	Detail No. 27
Clad By: MDOB	Date: 1-9-01	

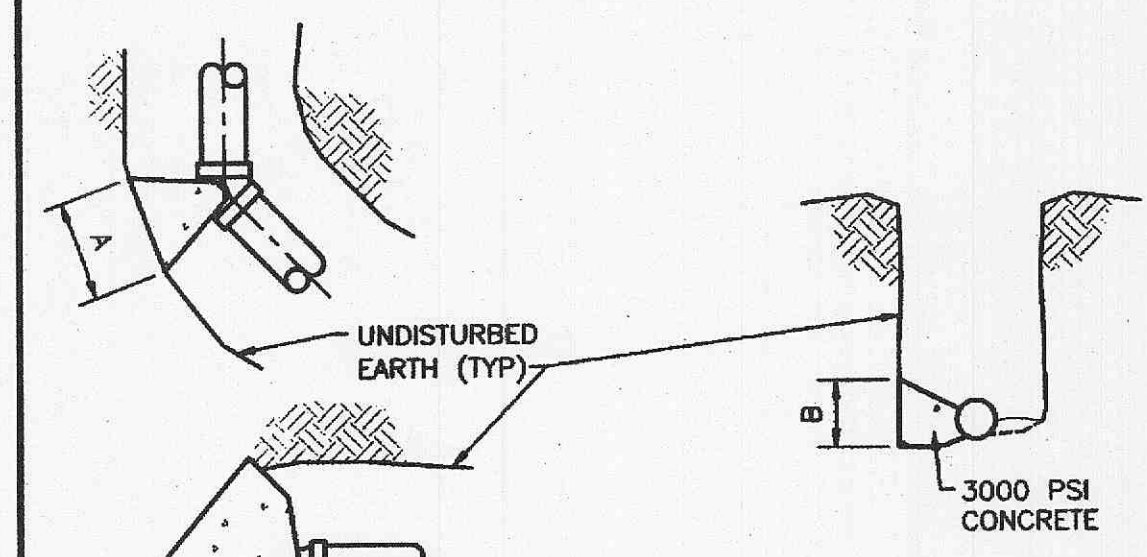


NOTE: INVERT-BOTTOM SHALL BE WORKED TO PROVIDE POSITIVE DRAINAGE THROUGH MANHOLE

Duckett Creek Sanitary District

LOW PRESSURE SEWER MAIN CONNECTION AT MANHOLE

Dim By: BSM	App By: KLA	Detail No. 28
Clad By: MDOB	Date: 1-9-01	



MAIN SIZE	A x B	A x B	A x B	A x B
	22"	45"	90"	
2"	.5' x 1'	.5' x 1'	1' x 1'	1' x 1'
4"	1' x 1'	1' x 1'	1.5' x 1'	1' x 1'
6"	1' x 1'	1.5' x 1'	2' x 1'	1.5' x 1'
8"	1' x 1'	2' x 1'	2' x 1'	2' x 1'

Duckett Creek Sanitary District

THRUST BLOCK DETAIL AND SIZE SCHEDULE

Dim By: BSM	App By: KLA	Detail No. 29
Clad By: MDOB	Date: 1-9-01	

LAYOUT: SANITARY 10.4
DATE: Apr 25, 2008 - 11:08am
DRAWING: S:\DDBS\2007\07-0075\07-0075.dwg IMPROVEMENT PLANS\0_IPLAN_C10.0_DETAILS_07-075.dwg

REVISIONS

DATE	BY	DESCRIPTION
02/13/2008	BSM	CITY OF FALLON/MSD #/DCSD COMMENTS
03/14/2008	KLA	CITY OF FALLON/MSD #/DCSD COMMENTS
04/17/2008	KLA	CITY OF FALLON/MSD #/DCSD COMMENTS
04/17/2008	KLA	CITY OF FALLON/MSD #/DCSD COMMENTS

DEVELOPER/OWNER: THE VILLAGE AT PARK PLACE, LLC.
1001 BOARDWALK SPRINGS PL
OFALLON, MO 63366
PHONE: (636) 561-9323

PROFESSIONAL ENGINEER AND ARCHITECT SEAL FOR THE STATE OF MISSOURI
MATTHEW R. KOESTER
NO. 0020771
EXPIRES 12/31/2008

Duckett Creek Sanitary District

PARK AVENUE VILLAGE IMPROVEMENT PLANS
PHOENIX PARKWAY
OFALLON, MO

SANITARY SEWER DETAILS

PLANNING AND DEVELOPMENT DEPARTMENT FILE #9831.57 (AREA PLAN-APPROVED MAY 24TH, ORDINANCE #5176) - 9831.57.01 (FINAL PLAN)

planning • engineering • surveying • landscape architecture

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DESIGNED BY: CJB
DRAWN BY: KDK
CHECKED BY: JFH
DATE: 11/6/07

Job Number: 07-075
Sheet Number: C10.4