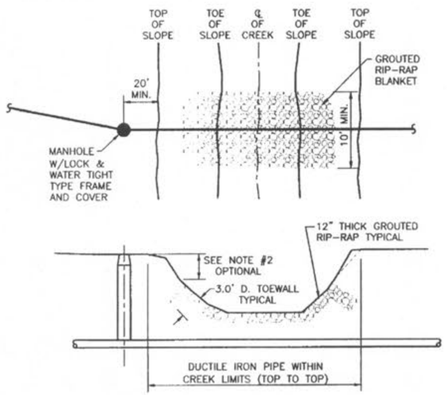
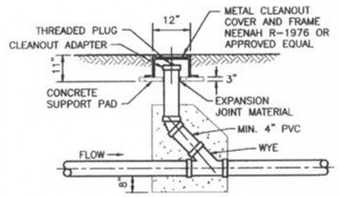


NOTES:

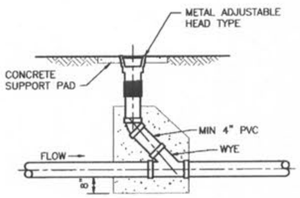
1. GROUTED RIP-RAP IS REQUIRED AT ALL CREEK CROSSINGS WHERE THE EMBANKMENTS CROSSED ARE STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL RATIO SLOPE; AND ALSO WHERE THERE IS 3 FEET OR LESS COVER OVER THE TOP OF THE SEWER MAIN.
2. PLACE RIP-RAP ON LOWER 3/4 OF SLOPE. GRADE UPPER 1/4 OF SLOPE AT 1 VERTICAL TO 2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

DUCKETT CREEK SANITARY DISTRICT

TYPICAL CREEK CROSSING	Dwn By: BSM	App By: KLA	Detail No. 24
	Chd By: MDOB	Date: 1-8-01	



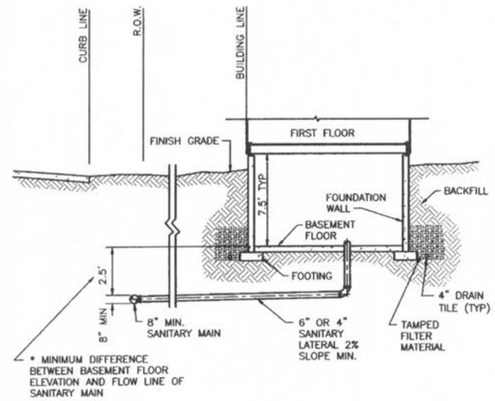
METAL FRAME AND COVER TYPE CLEANOUT



ADJUSTABLE HEAD TYPE CLEANOUT

DUCKETT CREEK SANITARY DISTRICT

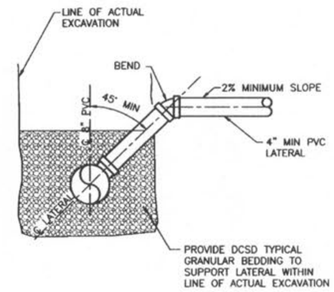
TYPICAL SEWER LATERAL CLEANOUT DETAILS	Dwn By: BSM	App By: KLA	Detail No. 25
	Chd By: MDOB	Date: 1-8-01	



*NOTE:
DIFFERENCE IN DEPTH INCREASES WITH PIPE SIZE

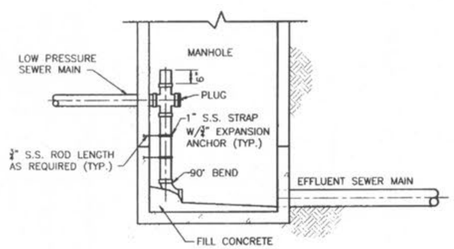
DUCKETT CREEK SANITARY DISTRICT

TYPICAL SANITARY SEWER LATERAL PROFILE	Dwn By: BSM	App By: KLA	Detail No. 26
	Chd By: MDOB	Date: 1-9-01	



DUCKETT CREEK SANITARY DISTRICT

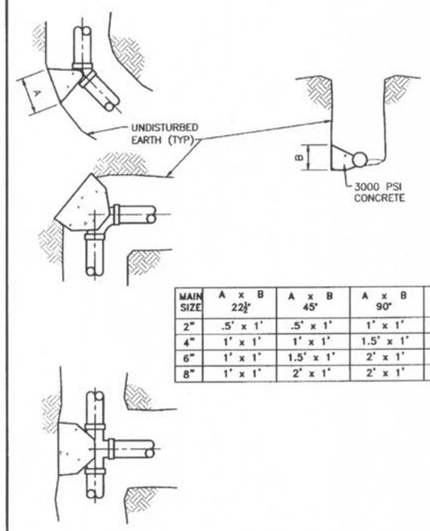
SANITARY SEWER LATERAL RISER DETAIL	Dwn By: BSM	App By: KLA	Detail No. 27
	Chd By: MDOB	Date: 1-9-01	



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

DUCKETT CREEK SANITARY DISTRICT

LOW PRESSURE SEWER MAIN CONNECTION AT MANHOLE	Dwn By: BSM	App By: KLA	Detail No. 28
	Chd By: MDOB	Date: 1-9-01	



MAIN SIZE	A x B 22½°	A x B 45°	A x B 90°	A x B TEE
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	Dwn By: BSM	App By: KLA	Detail No. 29
	Chd By: MDOB	Date: 1-9-01	

REVISIONS

DISC.	DATE	
1	02/12/2008	CITY OF O'FALLON/PWSD #2/DCSD COMMENTS
2	03/14/2008	CITY OF O'FALLON/PWSD #2/DCSD COMMENTS
3	04/17/2008	CITY OF O'FALLON COMMENTS
4	04/21/2008	CITY OF O'FALLON/PWSD #2 COMMENTS

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

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SEAL: STATE OF MISSOURI MATTHEW R. KOESTERER NUMBER PE-2003028843 PROFESSIONAL ENGINEER 11/6/07

PLANNING AND DEVELOPMENT DEPARTMENT FILE #9831.57 (AREA PLAN-APPROVED MAY 24TH, ORDINANCE #5178) - 9831.57.01 (FINAL PLAN)

PARK AVENUE VILLAGE IMPROVEMENT PLANS

PHOENIX PARKWAY
O'FALLON, MO

SANITARY SEWER DETAILS

Cole and ASSOCIATES INCORPORATED
planning • engineering • surveying • landscape architecture
10777 sunset office drive
saint louis, missouri 63127
p: 314 984 9887 f: 314 984 0587

DESIGNED BY	CJB
DRAWN BY	KDK
CHECKED BY	JFH
DATE	11/6/07
Job Number	07-075
Sheet Number	C10.4

LAYOUT:SANITARY 10.4
DATE: Apr 25, 2008 - 11:08am
DRAWING: _DGNS\dwg2007\07-075_07-075\dwg\IMPROVEMENT PLANS\0_IPLAN_C10.0_DETAILS_07-075.dwg