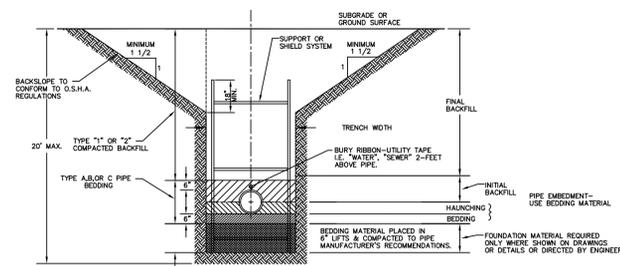


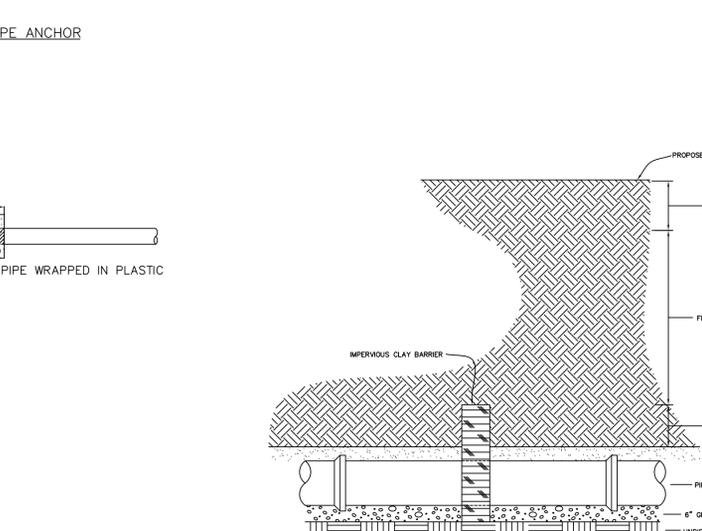
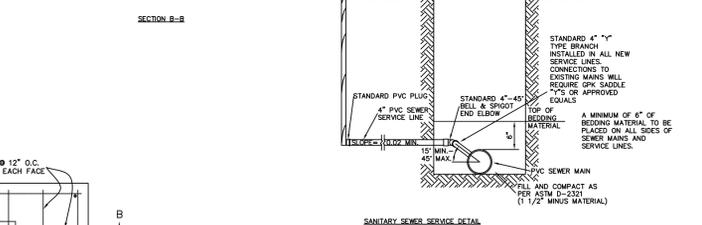
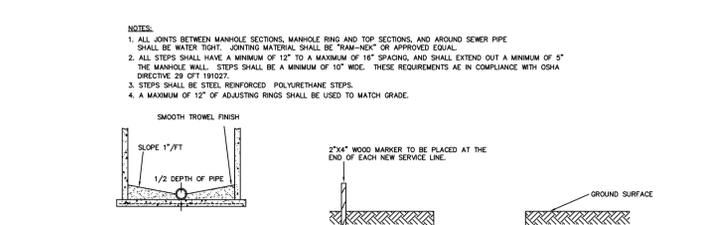
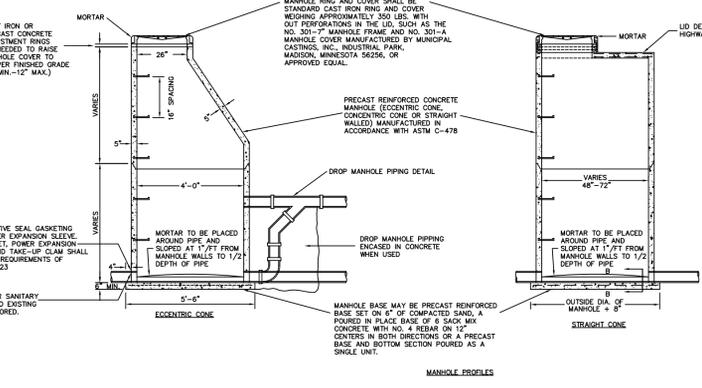
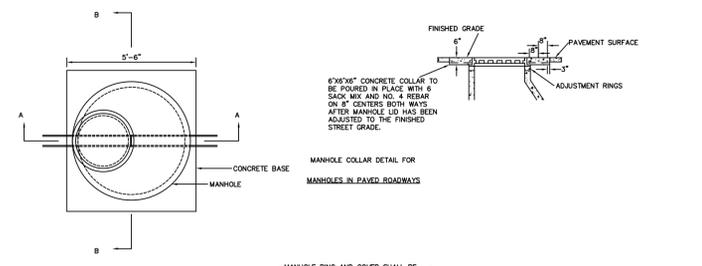
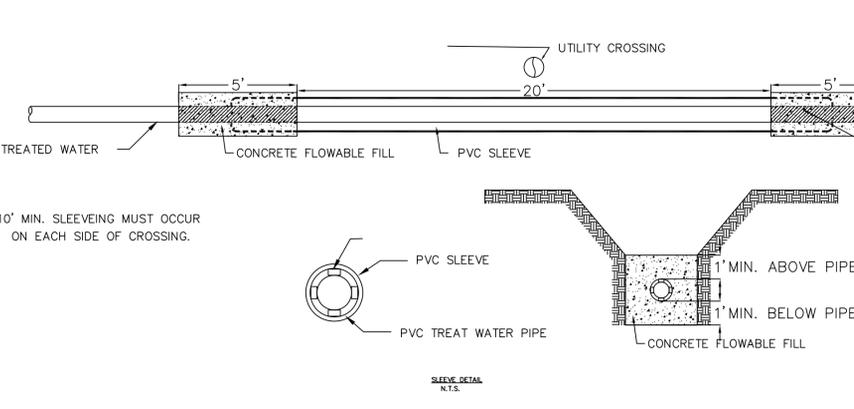
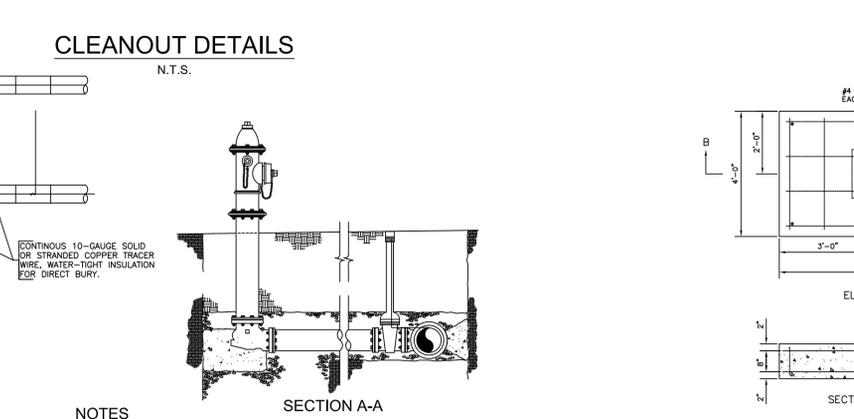
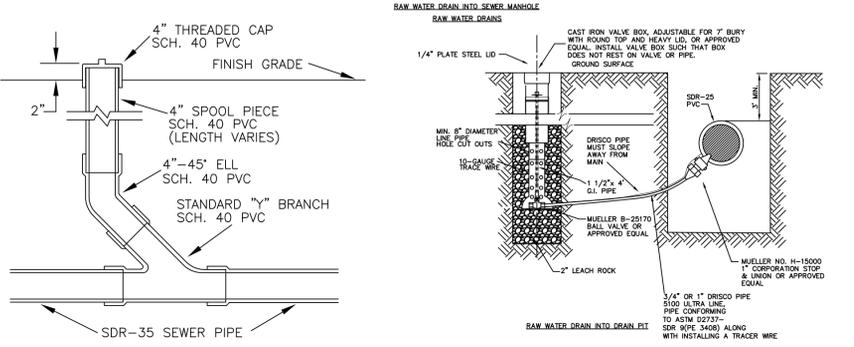
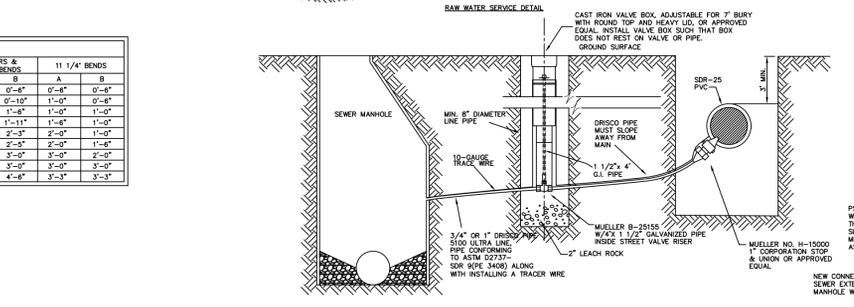
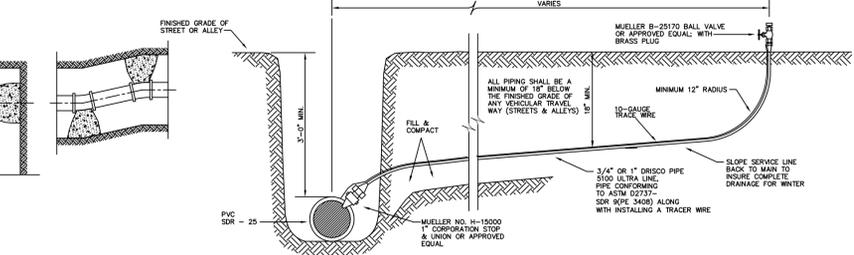
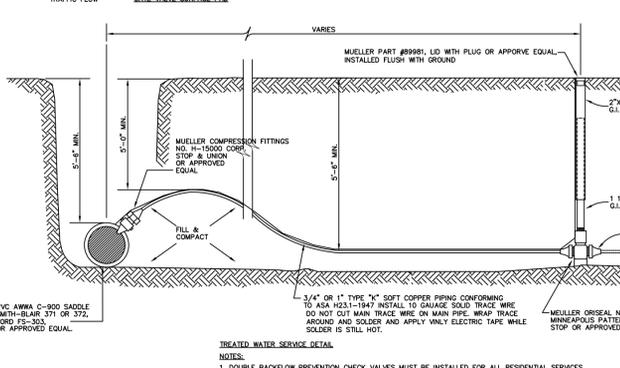
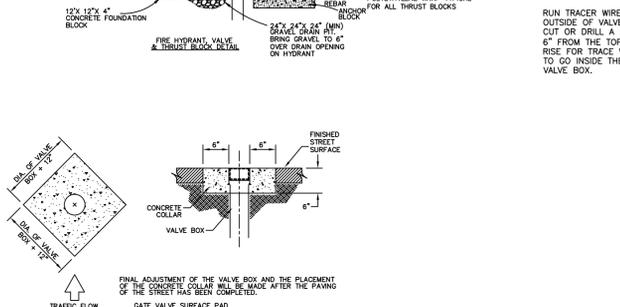
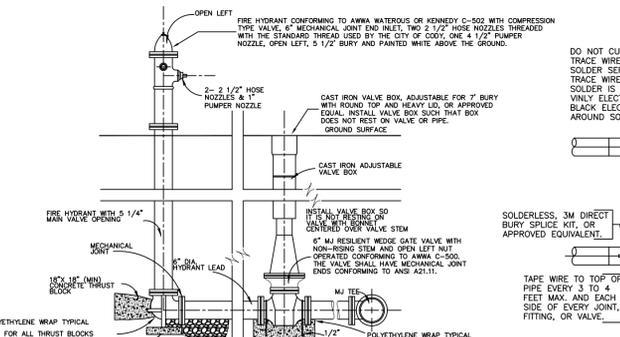
MINIMUM DIMENSIONS FOR THRUST BLOCKING

FITTING SIZE	TEES & FLUGS		90° BENDS		45° BENDS & WYES		REDUCERS & 22 1/2° BENDS		11 1/4° BENDS	
	A	B	A	B	A	B	A	B	A	B
4"	1'-3"	1'-3"	1'-4"	1'-4"	1'-4"	1'-4"	1'-3"	1'-3"	1'-3"	1'-3"
6"	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	1'-9"	1'-9"	1'-9"
8"	2'-8"	2'-6"	3'-2"	3'-0"	2'-5"	2'-1"	1'-9"	1'-8"	1'-9"	1'-9"
10"	3'-4"	3'-3"	4'-2"	3'-10"	3'-0"	2'-9"	2'-9"	1'-11"	1'-8"	1'-8"
12"	4'-0"	3'-10"	4'-8"	4'-8"	3'-8"	3'-3"	2'-7"	2'-3"	2'-0"	1'-9"
14"	5'-3"	3'-10"	6'-4"	4'-11"	4'-9"	3'-0"	2'-5"	2'-0"	1'-8"	1'-8"
16"	6'-0"	3'-10"	6'-0"	6'-0"	5'-0"	4'-0"	3'-0"	3'-0"	2'-0"	2'-0"
24"	8'-0"	6'-0"	7'-0"	6'-0"	5'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"
30"	7'-8"	7'-8"	6'-0"	6'-0"	6'-3"	6'-3"	4'-9"	4'-8"	3'-3"	3'-3"

NOTES:
 1. FITTINGS TO BE SEPARATED FROM BLOCKS WITH AN APPROVED BOND BREAKER, SUCH AS POLYURETHANE.
 2. ALL BLOCKS TO BE BUILT AGAINST UNDISTURBED MATERIAL.
 3. DESIGN IS BASED ON 150 PSI MAX. PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.

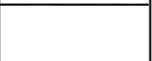


PIPE BEDDING
 TYPE A - WELL GRADED MATERIAL WITH A MAXIMUM SIZE OF 3/4-INCH. MAXIMUM PLASTICITY INDEX OF 6. AS DETERMINED BY AASHTO DESIGNATIONS T-8-BRAND 1-90.
 TYPE B - NON-PLASTIC GRADED 8 DRAIN GRAVEL.
 TYPE C - NON-PLASTIC MAXIMUM SIZE 1 INCH; 0-5% PASSING NO. 4 SEIVE.



- MATERIAL SPECIFICATIONS
- SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE BELL AND SPIGOT PIPE CONFORMING TO THE FOLLOWING:
 - PVC PIPE SHALL CONFORM TO CELL CLASSIFICATION 12454-B AS GIVEN IN ASTM D 1784.
 - DIMENSIONS OF THE PIPE AND FITTINGS SHALL CONFORM TO ASTM D 3034 OR ASTM F 679 FOR SIZES OVER 18".
 - JOINTS IN ALL PVC SEWER PIPE SHALL BE WATER TIGHT WITH BELL AND SPIGOT ENDS WITH RUBBER O-RING GASKETS.
 - STANDARD PVC 7" PIPE BRANCHES WILL BE REQUIRED FOR ALL SERVICES ON A NEW MAIN.
 - PIPE FOR TREATED AND RAW WATER MAINS SHALL BE AWWA C-900 PVC CLASS 150 OR 200 BASED ON WATER MODELING.
 - FITTING FOR TREATED AND RAW WATER MAINS SHALL BE AS APPROVED BY THE CITY ENGINEER AND CONFORMS WITH THE WYOMING PUBLIC WORKS STANDARDS.
 - GATE VALVES SHALL CONFORM TO AWWA C500. VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH NON-RISING STEM, OPEN LEFT AND NOT OPERATED. THE VALVES SHALL HAVE MECHANICAL JOINT ENDS CONFORMING TO ANSI A21.11.
 - ALL WORK ASSOCIATED WITH THESE DETAILS SHALL CONFORM TO THE WYOMING PUBLIC WORKS SPECIFICATIONS.

CALL 1-800-849-2476
 48 HOURS BEFORE YOU DIG



WATER AND SEWER DETAILS
 SHEET _____ OF _____

NO.	DATE	BY	REVISION
1	5/2/2007	LDL	
2	6/16/2007	LDL	
3	6/16/2007	LDL	
4	12/7/2008	LDL	
5	6/29/2008	LDL	
6	3/7/2007	LDL	
7	3/7/2007	LDL	
8	5/2/2007	LDL	
9	5/2/2007	LDL	
10	5/2/2007	LDL	
11	5/2/2007	LDL	
12	5/2/2007	LDL	