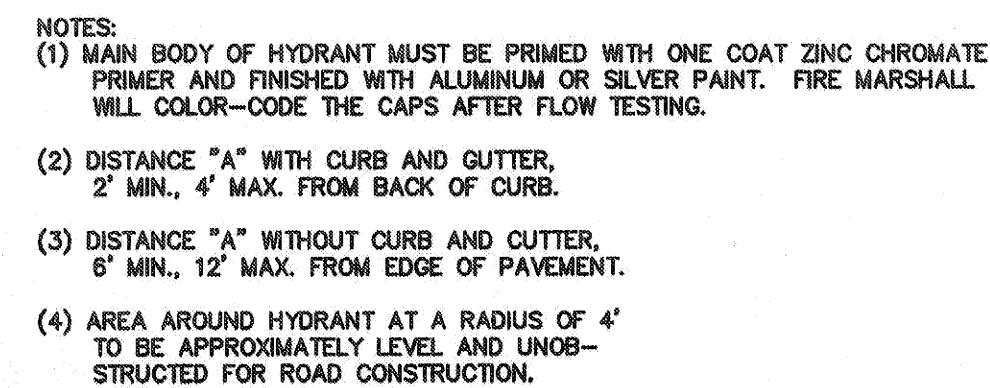
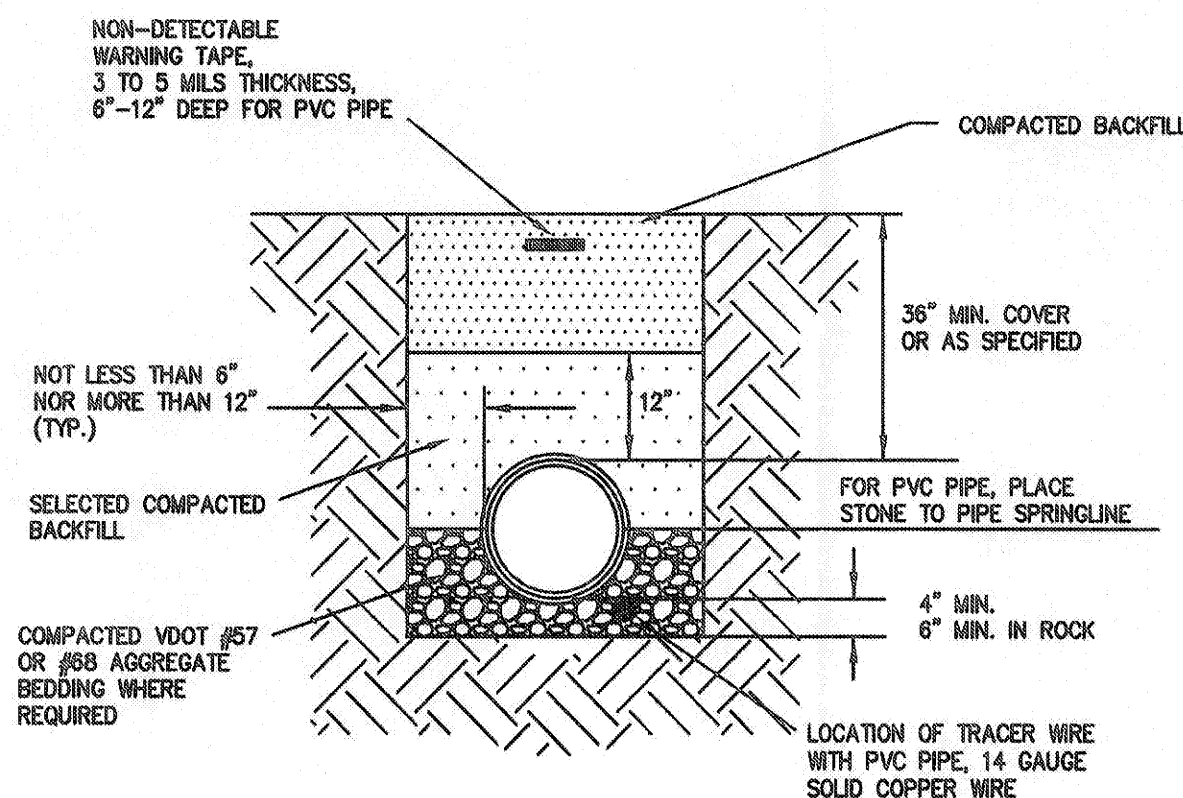




PIPE SIZE	TEE OR DEAD END			90° BEND			45° BEND			22.5° LESS BEND		
6" OR LESS	A	B	C	A	B	C	A	B	C	A	B	C
8"	1.2	3.0	1.0	1.4	3.3	2.0	1.2	1.6	1.5	1.2	2.0	1.0
10"	1.7	3.8	1.5	2.0	4.5	2.0	1.5	3.6	1.5	1.5	2.0	1.0
12"	2.0	4.5	2.0	2.3	5.2	2.5	1.7	4.5	2.0	1.5	2.6	1.5
14"	2.5	5.7	2.0	3.5	5.6	2.5	2.2	5.0	2.5	1.7	3.3	1.5
16"	3.5	7.0	3.0	4.5	8.0	3.5	3.0	6.5	3.0	2.5	4.0	2.0
24"							3.5	7.0	3.25	3.0	4.5	2.5

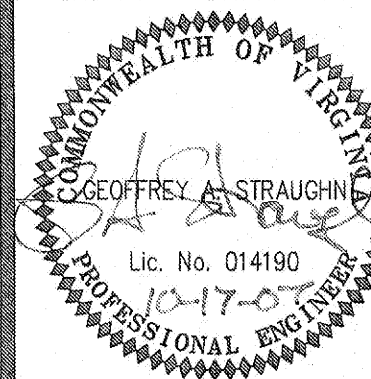
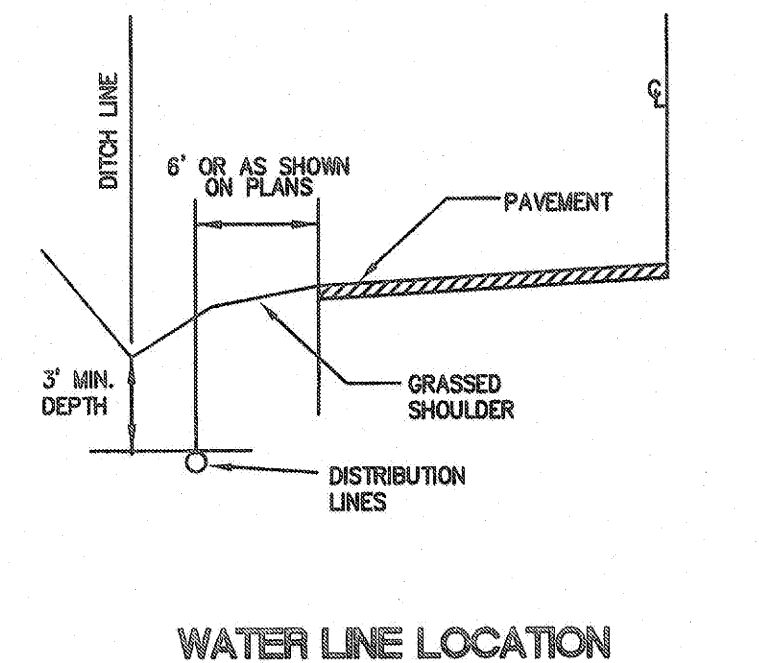
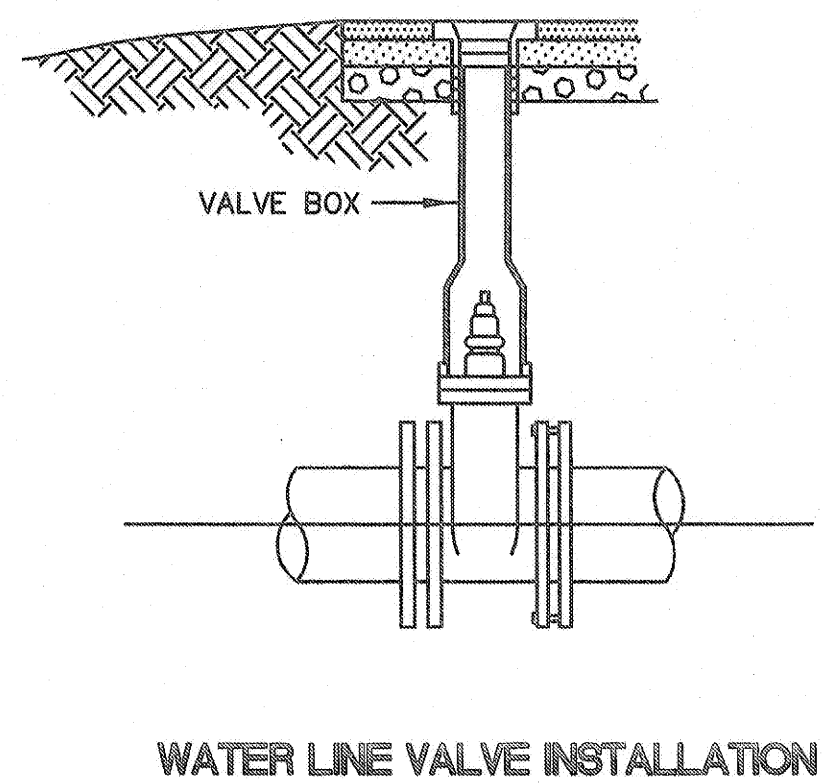
- NOTES:
1. THE ABOVE NOTED DIMENSIONS ARE MINIMUM BASED ON CONCRETE ANCHOR EXTENDING TO UNDISTURBED SOIL, LINE PRESSURE NOT TO EXCEED 150 PSI AND, MINIMUM SOIL BEARING CAPACITY OF 2500 PSF; UNSATISFACTORY SOIL BEARING OR EXCESS PRESSURE WILL REQUIRE ADDITIONAL DESIGN.
 2. CONCRETE SHALL NOT BE POURED ON JOINTS OR BOLTS.
 3. CONCRETE TO BE MINIMUM 3000 PSI - 28 DAY COMPRESSIVE STRENGTH.

THRUST BLOCK FOR HORIZONTAL AND LOWER VERTICAL BENDS



- NOTES:
1. THIS DETAIL APPLICABLE FOR DEPTHS LESS THAN 14 FEET.
 2. PROVIDE 14 GAUGE SOLID COPPER LOCATER WIRE ALONGSIDE ALL PVC PIPE AND LOOP AROUND ALL VALVES.

PVC WATER MAIN TRENCH



WATER DETAILS

GRANDE VILLAS
AT THE WATER'S EDGE
PREPARED FOR
THE WILLARD COMPANIES
MAGISTERIAL DISTRICT
FRANKLIN COUNTY, VIRGINIA

REVISIONS	
NO.	DATE DESCRIPTION
1	
2	
3	
4	
5	

DATE: OCTOBER 17 2007

SCALE: _____

COMMISSION NO:

SHEET 10 OF 11

LUMSDEN ASSOCIATES, P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA

4664 BRAMBLETON AVENUE
P.O. BOX 20669
ROANOKE VIRGINIA 24018
PHONE: (540) 774-4411
FAX: (540) 772-9445
E-MAIL: MAIL@LIMSINPC.COM

4664 BRAMBLETON AVENUE
P.O. BOX 20669
ROANOKE VIRGINIA 24018