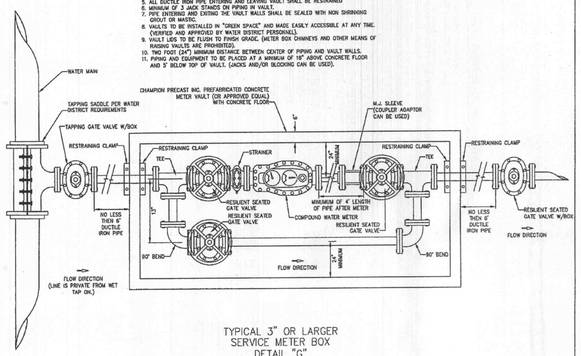
NOTES:

1. VAULT LIDS ARE REQUIRED TO HAVE ACCESS FRAME AND COVER TO BE PLACED DIRECTLY OVER METER TO PROVIDE AMPLE SPACE FOR SERVICING OR READING METER.
2. IF FIRE FLOW METER IS NECESSARY, LARGER VAULT MAY BE REQUIRED.
3. ALL FITTINGS AND VALVES WILL BE FLANGED.
4. ALL METERS, GASKETS, BOLTS, AND NUTS WILL BE SUPPLIED BY THE WATER DISTRICT.
5. ALL DUCTILE IRON PIPE ENTERING AND LEAVING VAULT SHALL BE RESTRAINED
6. MINIMUM OF 3 JACK STANDS ON PIPING IN VAULT.
7. ALL OPENINGS EXISTING THE VAULT WALLS SHALL BE SEALED WITH NON SHRINKING GROUT OR MASTIC.
8. VAULTS TO BE INSTALLED IN "GREEN SPACE" AND MADE EASILY ACCESSIBLE AT ANY TIME. (VERIFIED AND APPROVED BY WATER DISTRICT PERSONNEL)
9. VAULT LIDS TO BE FLUSH TO FINISH GRADE. (METER BOX CHAMEYS AND OTHER MEANS OF RAISING VAULTS ARE PROHIBITED).
10. TWO FOOT (24") MINIMUM DISTANCE BETWEEN CENTER OF PIPING AND VAULT WALLS.
11. PIPING AND EQUIPMENT TO BE PLACED AT A MINIMUM OF 18" ABOVE CONCRETE FLOOR AND 3' BELOW TOP OF VAULT. (JACKS AND/OR BLOCKING CAN BE USED).



TYPICAL 3" OR LARGER SERVICE METER BOX DETAIL "G"
NOT TO SCALE

PUBLIC WATER SUPPLY DISTRICT #2 OF SAINT CHARLES COUNTY

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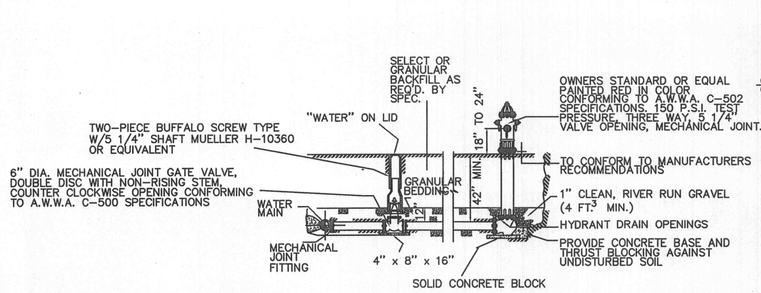
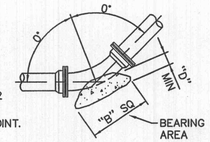
APRIL 20, 2005

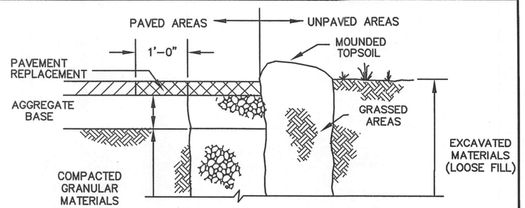


FIRE HYDRANT INSTALLATION
NOT TO SCALE



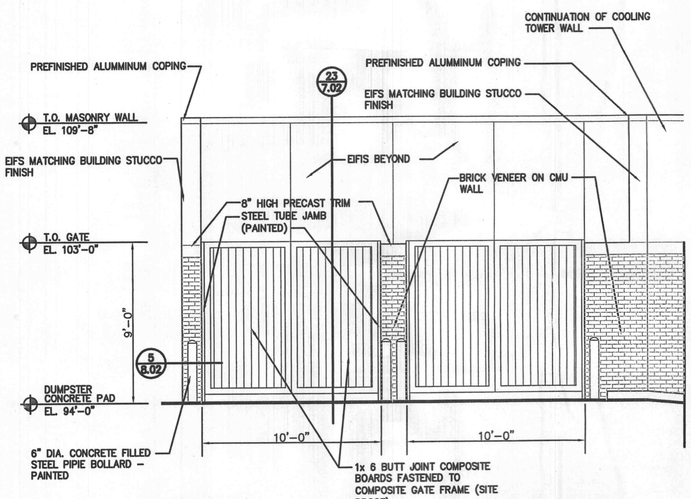
THRUST BLOCKS
NOT TO SCALE

PIPE DIA.	90° BENDS		45° BENDS		22.5° BENDS		WYES & TEES	
DIM.	B	D	B	D	B	D	B	D
2"	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
3"	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
4"	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
6"	1.4	1.0	1.0	1.0	1.0	1.0	1.6	1.0
8"	1.8	1.0	1.4	1.0	1.0	1.0	2.2	1.0
10"	2.3	1.2	1.7	1.2	1.2	1.2	2.7	1.2
12"	2.7	1.4	2.0	1.4	1.4	1.4	3.2	1.4
14"	3.2	1.5	2.4	1.5	1.7	1.5	3.8	1.5
16"	3.6	1.7	2.7	1.7	1.9	1.7	4.3	1.7

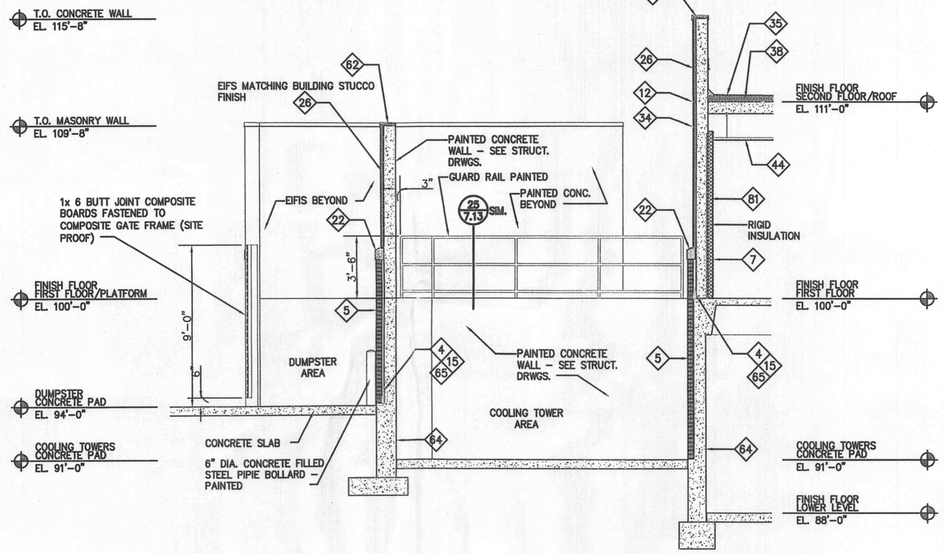


CONDUIT DIAMETER	TRENCH WIDTH
6	2'-6"
8	2'-6"
10	2'-6"
12	2'-6"
15	3'-0"
18	3'-0"
21	3'-3"
24	3'-6"
30	4'-1"
36	4'-8"
42	5'-3"
48	5'-10"
54	6'-5"
60	7'-0"
66	7'-7"
72	8'-2"

UTILITY TRENCH
NOT TO SCALE



22 7.02 DUMPSTER ENCLOSURE ELEVATION
SCALE: 1/4" = 1'-0"



23 7.02 SECTION @ DUMPSTERS/COOLING TOWERS
SCALE: 1/4" = 1'-0"

PLAN VIEW
NOT TO SCALE

TYPICAL COMMERCIAL SERVICE CONNETION WITH FIRE PROTECTION
DETAIL "H"

PUBLIC WATER SUPPLY DISTRICT #2 OF SAINT CHARLES COUNTY

APRIL 20, 2005

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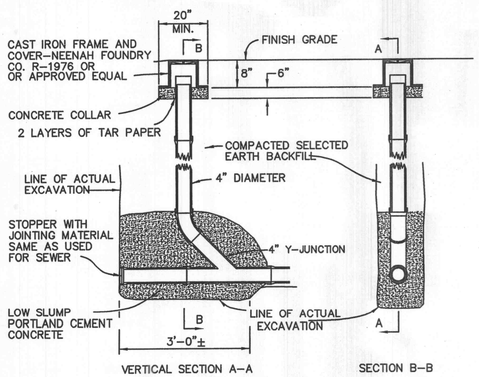
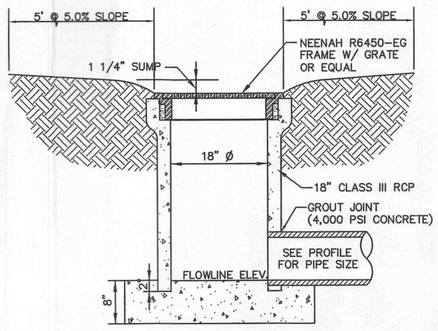
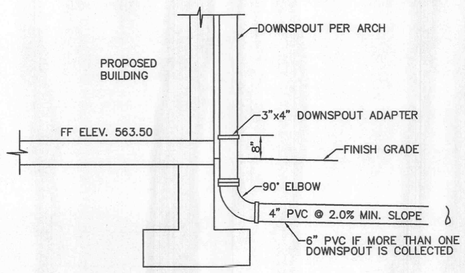


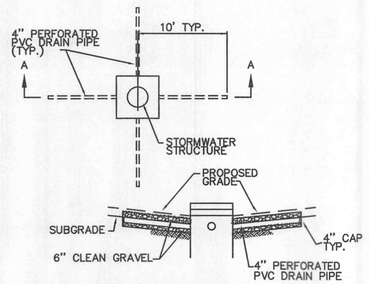
SEWER CLEANOUT
NOT TO SCALE



YARD CATCH BASIN,"YCB"
NOT TO SCALE



DOWNSPOUT DETAIL
SCALE: 1/2" = 1'-0"



SUBGRADE DRAIN
TO BE CONSTRUCTED AT ALL CURB INLETS AND GRATE INLETS WITHIN PAVED AREAS
NOT TO SCALE

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05/07/07		BID SET

REVISIONS

UTILITY DETAILS

GARDEN VILLAS OF O'FALLON

Highway N and Twin Chimneys Boulevard — O'Fallon, Missouri 63366

Prepared for:

DELMAR GARDENS ENTERPRISES, INC.
14805 N. Outer 40
Chesterfield, MO 63017
636-733-7000

the clayton engineering company, inc.
ENGINEERS • SURVEYORS • PLANNERS
11920 WESTLINE INDUSTRIAL DRIVE
ST. LOUIS, MISSOURI 63146
(314) 692-8888 FAX: (314) 692-8688
clayton-engineering.com

Designed	RKF
Drawn	RKF
Checked	MJV
Date	05/07/07
Project Number	00228.10
Sheet Number	C-12 of 17

F.S. F.B. SUR. FILE: G:\00XXX\00228-10\CONSTRUCTION\WATDTL01.DWG PLOTTED: 09/28/07 07:59 BY: KRF