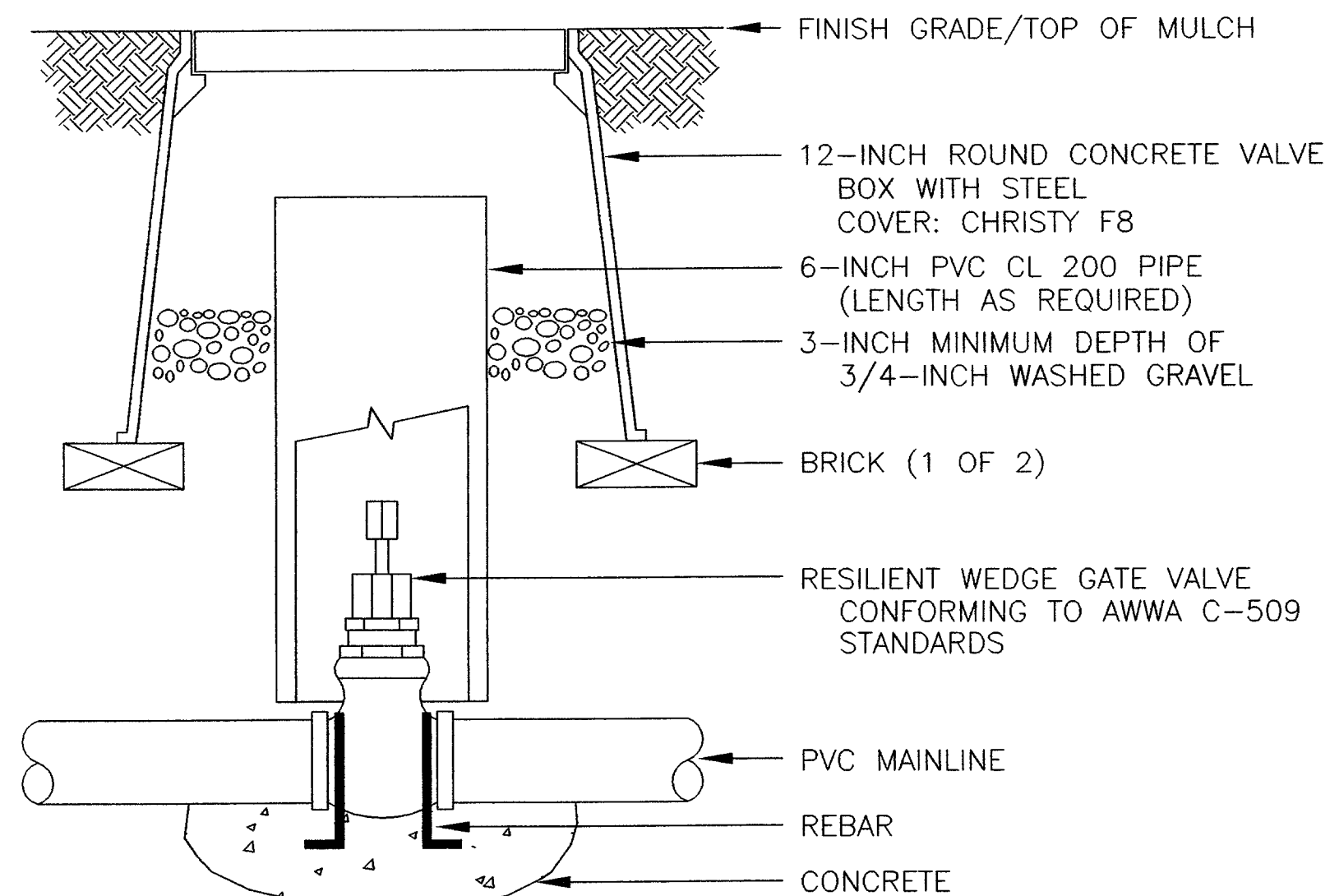
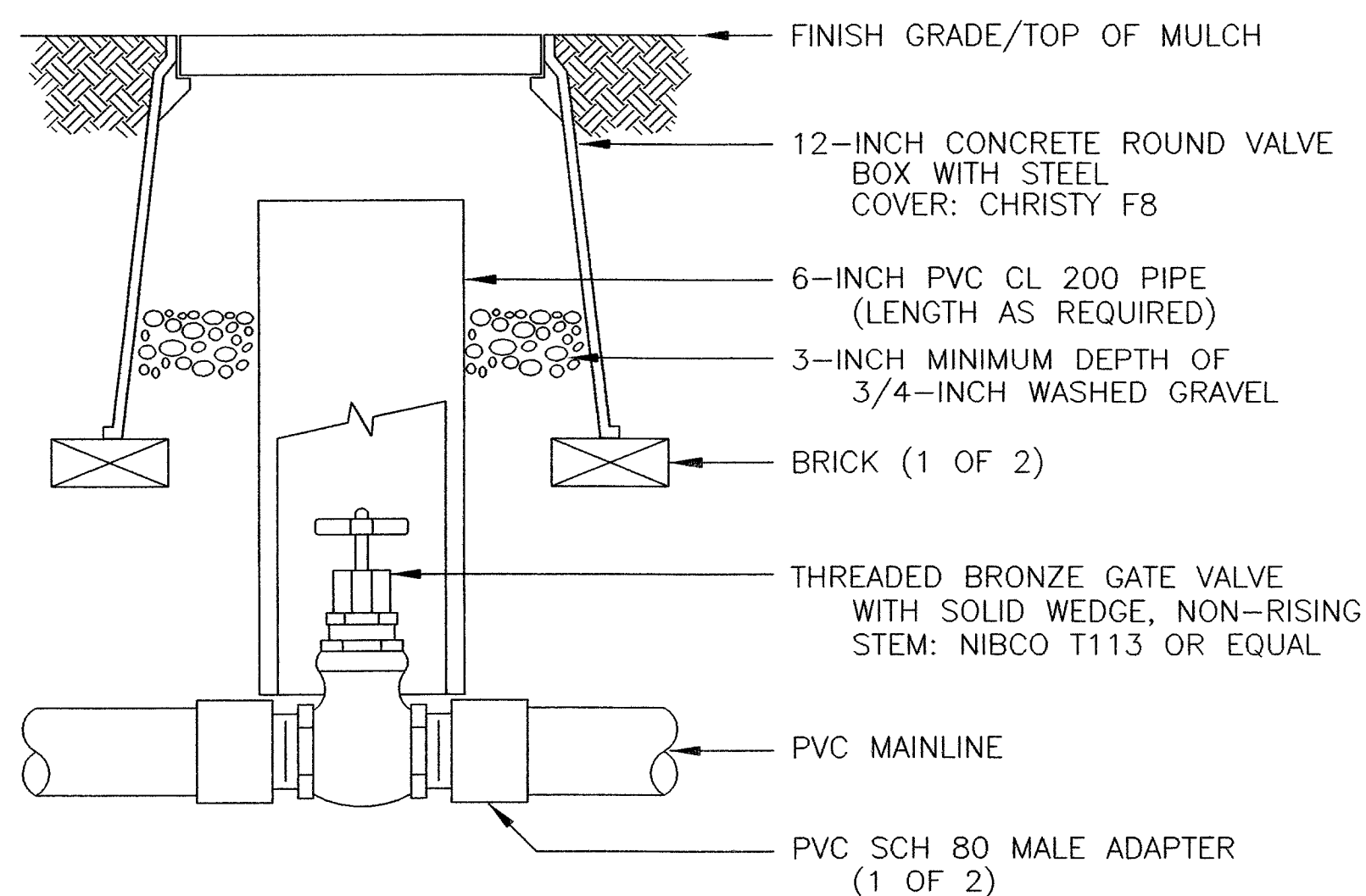




NOTES:

1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.
2. INSTALL A 4-INCH THICK CONCRETE PAD BELOW VALVE WITH NO. 4 REBAR WHEN USING PUSH ON TYPE VALVES.
3. RESILIENT WEDGE GATE VALVE MAY HAVE EITHER MECHANICAL JOINT, PUSH-ON ENDS, OR FLANGE ENDS. VALVE SHALL BE EQUIPPED WITH SQUARE OPERATING NUT.

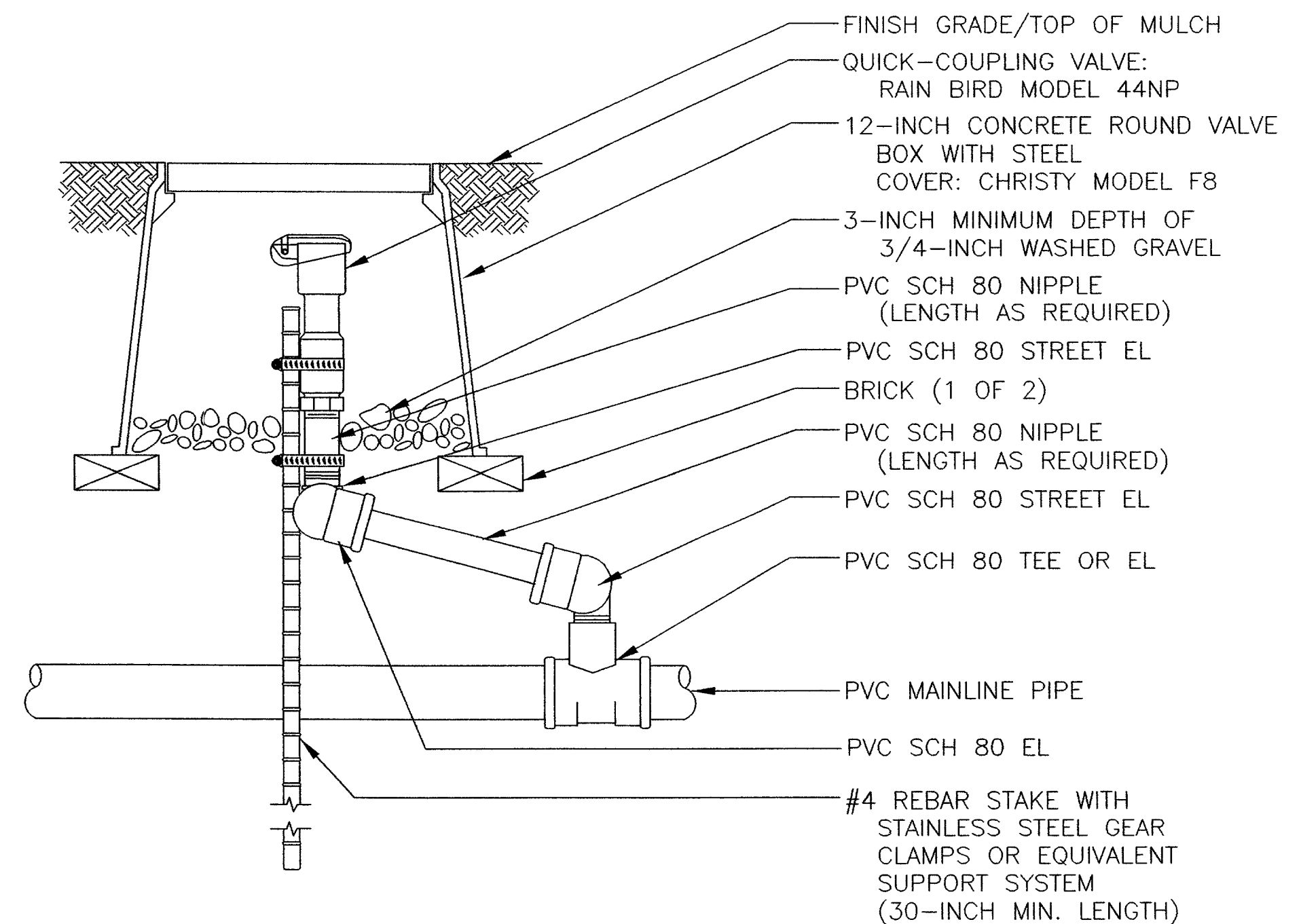
1 3" AND LARGER ISOLATION GATE VALVE ASSEMBLY



NOTE:

1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

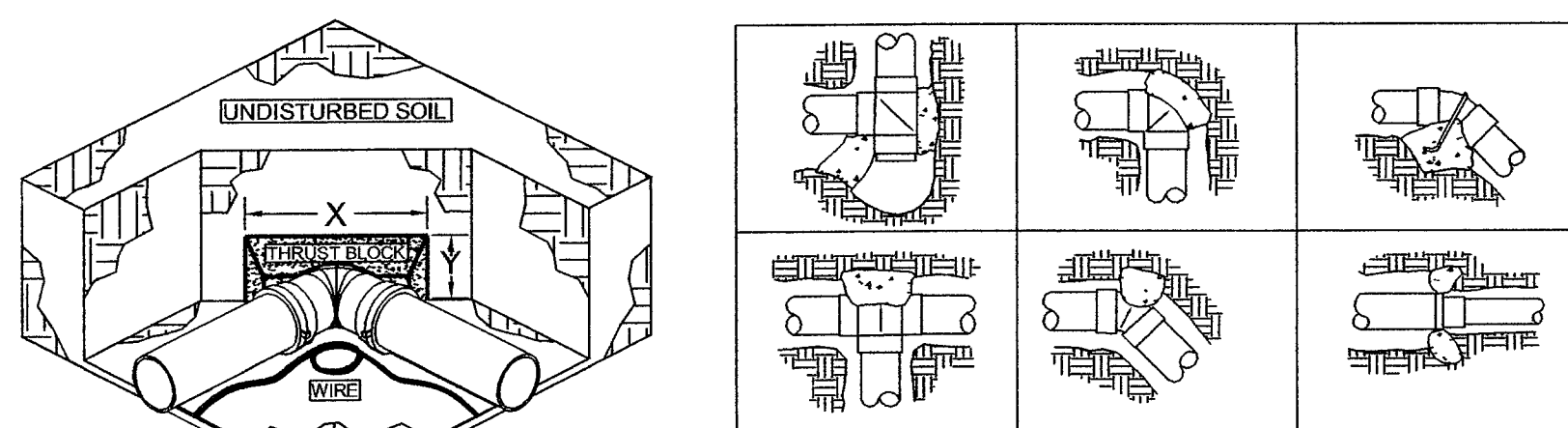
2 2-1/2-INCH AND SMALLER ISOLATION GATE VALVE ASSEMBLY



NOTES:

1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. FOR MAINLINE PIPE SIZES WHERE DUCTILE IRON FITTINGS ARE CALLED FOR IN THE SPECIFICATIONS, DELETE PVC SERVICE TEE SHOWN AND USE DUCTILE SERVICE TEE.
3. FOR QUICK COUPLING VALVE INSTALLATION IN TENNIS EXHIBITION COURT, COORDINATE PIPING AND VALVE LOCATION WITH CITY REPRESENTATIVE AND APPROPRIATE SUB-CONTRACTORS PRIOR TO CONSTRUCTION. PROVIDE SAND BEDDING FOR PIPE AND FITTING INSTALLATION AND COMPACT TO 95% PROCTOR DENSITY. PROVIDE TRAFFIC RATED VALVE BOX ASSEMBLY.

3 QUICK COUPLING VALVE ASSEMBLY



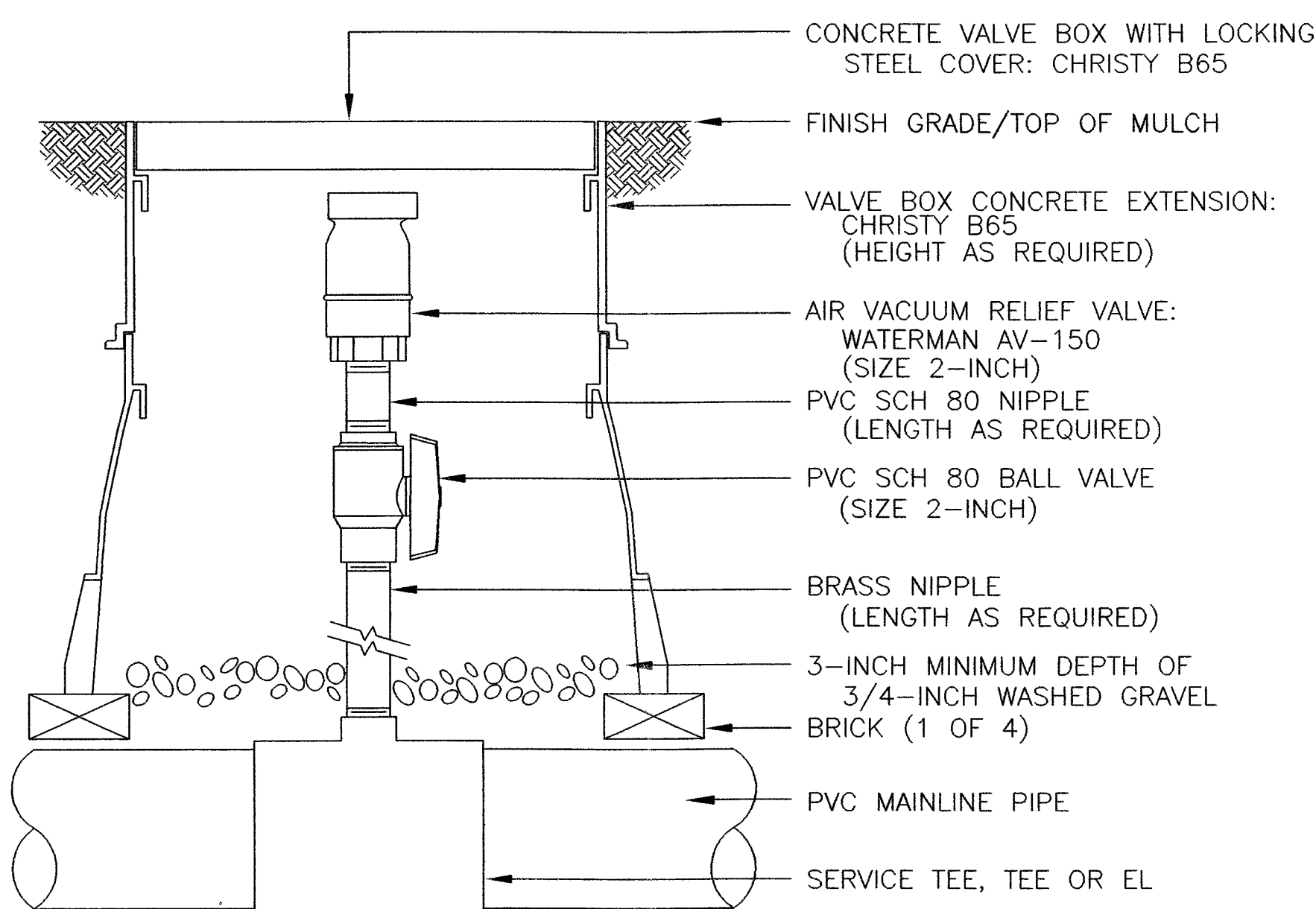
THRUST BLOCK SURFACE AREA (SF) AGAINST UNDISTURBED SOIL (X x Y)= (SF)

FITTING SIZE	45° BEND (SF)	90° BEND (SF)	TEE OR DEAD END(SF)
3"	.62	1.12	.80
4"	1.01	1.84	1.31
6"	2.18	3.99	2.83
8"	3.71	6.78	4.82
10"	5.77	10.92	7.48

NOTES:

1. INSTALL AND TEST MAINLINE ACCORDING TO MANUFACTURER'S INSTALLATION SPECIFICATIONS.
2. REFER TO SPECIFICATIONS FOR ALL TRENCH DEPTHS AND WIDTHS.
3. USE NO. 4 REBAR WITH MASTIC COATING WHERE PIPE MUST BE ANCHORED TO THRUST BLOCK.
4. INSTALL THRUST BLOCK SO THE HORIZONTAL (X) AND VERTICAL (Y) DIMENSIONS OF THE THRUST BLOCK ARE APPROXIMATELY EQUAL.
5. INSTALL THRUST BLOCK WITH A MINIMUM THICKNESS FROM THE PIPE TO THE UNDISTURBED SOIL OF TWO TIMES THE DIAMETER OF THE PIPE.
6. THRUST BLOCK SIZING ASSUMES A MAXIMUM OPERATING PRESSURE OF 100 PSI, A MAXIMUM VELOCITY OF 5 FEET PER SECOND, AND A SOIL BEARING CAPACITY OF 1500 LBS/FT².

4 TYPICAL THRUST BLOCK INSTALLATION



NOTES:

1. WHEN DUCTILE IRON FITTINGS ARE CALLED FOR IN THE SPECIFICATIONS, DELETE PVC SERVICE TEE SHOWN AND USE DUCTILE IRON SERVICE TEE.
2. OPEN BALL VALVE IN ASSEMBLY 1/8 TURN UNTIL IRRIGATION SYSTEM IS FULLY CHARGED WITH WATER.

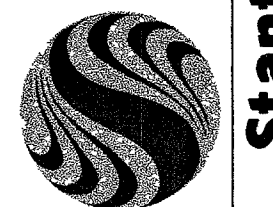
5 AIR/VACUUM RELIEF VALVE ASSEMBLY



REVISIONS

CONSULTANT

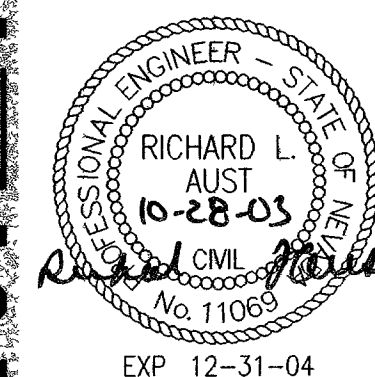
7251 W CHARLESTON BLVD
LAS VEGAS, NEVADA 89117
PHONE (702) 258-0115
FAX (702) 869-8547



WASHINGTON BUFFALO PARK - PHASE 1A
WASHINGTON & BUFFALO, LAS VEGAS, NV

IRRIGATION DETAILS

STAMP



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE (702) 229-6535
FAX (702) 382-3232
TDD: (702) 386-9108

DRAWN

RJP

FILE

P-IR-05.dwg

DATE

AUGUST 2003

SCALE

N/A

REV NO

03/534107

CLV DWG NO

650761A

SHT NO

IR-5