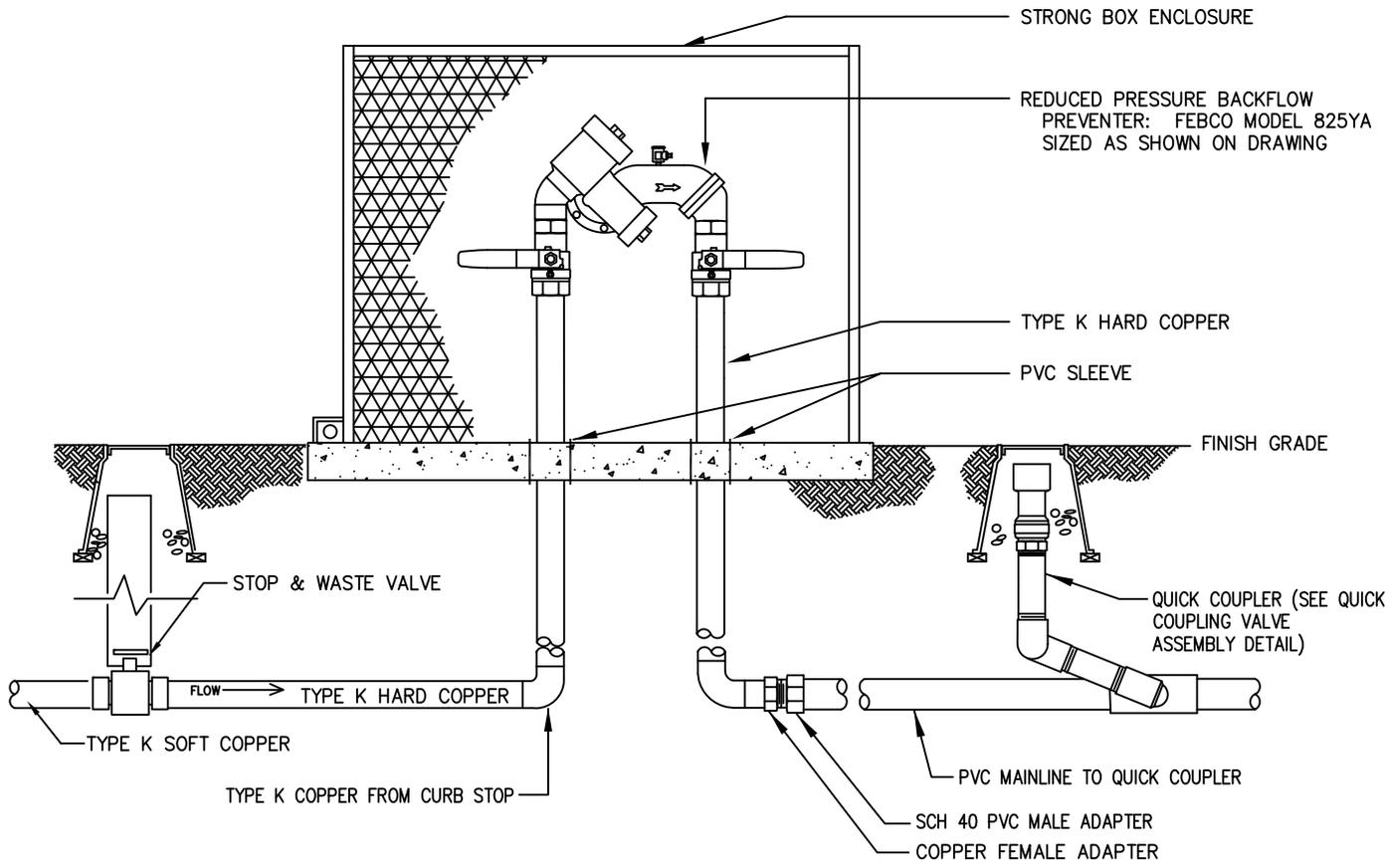


INDEX OF DRAWINGS

PARKS

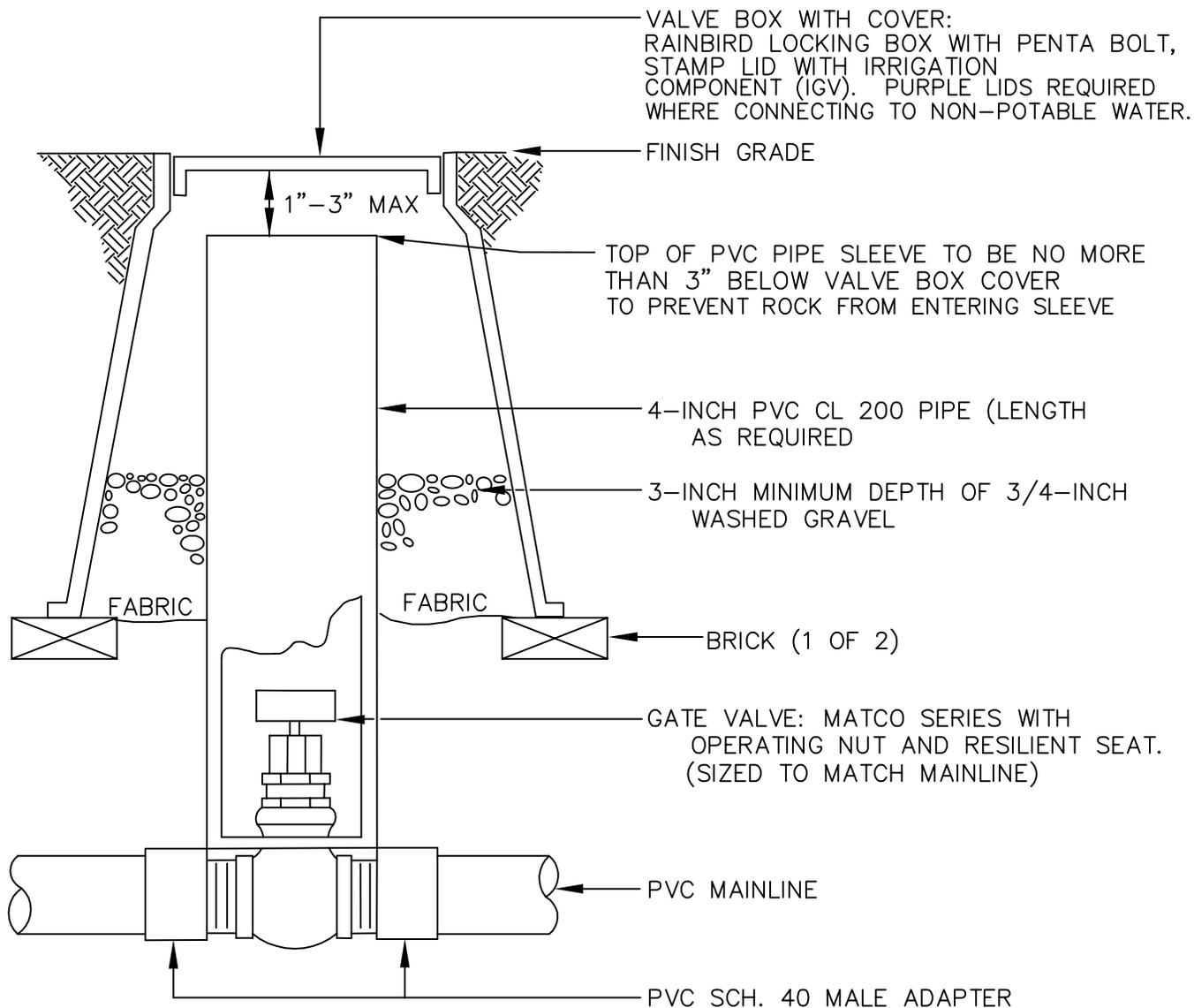
<u>DRAWING NO.</u>	<u>TITLE</u>
P01	REDUCED PRESSURE ASSEMBLY W/STOP & WASTE VALVE
P02	ISOLATION GATE VALVE ASSEMBLY
P03	DRAIN VALVE ASSEMBLY
P04	PRESSURE REGULATING VALVE ASSEMBLY
P05	REMOTE CONTROL TURF VALVE ASSEMBLY
P06	REMOTE CONTROL DRIP VALVE ASSEMBLY
P07	QUICK COUPLING VALVE ASSEMBLY
P08	PRESSURE REGULATING MASTER VALVE ASSEMBLY
P09	NON-PRESSURE REGULATING MASTER VALVE ASSEMBLY
P10	AIR AND VACUUM RELIEF VALVE
P11	4-INCH POP-UP ROTOR SPRINKLER ASSEMBLY
P12	12-INCH POP-UP SPRAY SPRINKLER ASSEMBLY
P13	4-INCH POP-UP SPRAY SPRINKLER ASSEMBLY
P14	TYPICAL TRENCHING (4" & SMALLER)
P15	TYPICAL THRUST BLOCK
P16	SINGLE OUTLET DRIP EMITTER ASSEMBLY
P17	MULTIPLE OUTLET EMITTER TO TREES IN TURF
P18	PEDESTAL MOUNT CONTROLLER
P19	SOFT TRAIL DETAIL
P20A	TREE PLANTING DETAIL
P20B	SHRUB & GROUNDCOVER / PERENNIAL PLANTING DETAIL
P21	FLUSH CAP ASSEMBLY
P22	D-BUBBLERS
P23	1-1/2" & 2" IRRIGATION METER PIT
P24	2" & LARGER IRRIGATION MAIN LINE CONNECTIONS
P25	SPINE TRAIL DESIGN
P26	TWO-WIRE REMOTE CONTROL VALVE ASSEMBLY
P27	TYPICAL TRAIL CONNECTION WITH FLARED CORNERS
P28	NON-POTABLE SIGNAGE
P29	FLOW SENSOR



NOTES:

1. INSTALL BACKFLOW DEVICE IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
2. SLOPE TOP SURFACE OF PAD AT 0.5 % WITH BROOM FINISH. MAKE PIPE SLEEVES WITH 1-1/2 INCH LARGER DIAMETER PIPE THAN PENETRATING PIPE SIZE.
3. ALL HINGED CONNECTION LOCATIONS AND HARDWARE TO BE TAMPER PROOF.
4. ALL WELD JOINTS SHALL BE CONTINUOUS AND GROUND SMOOTH.

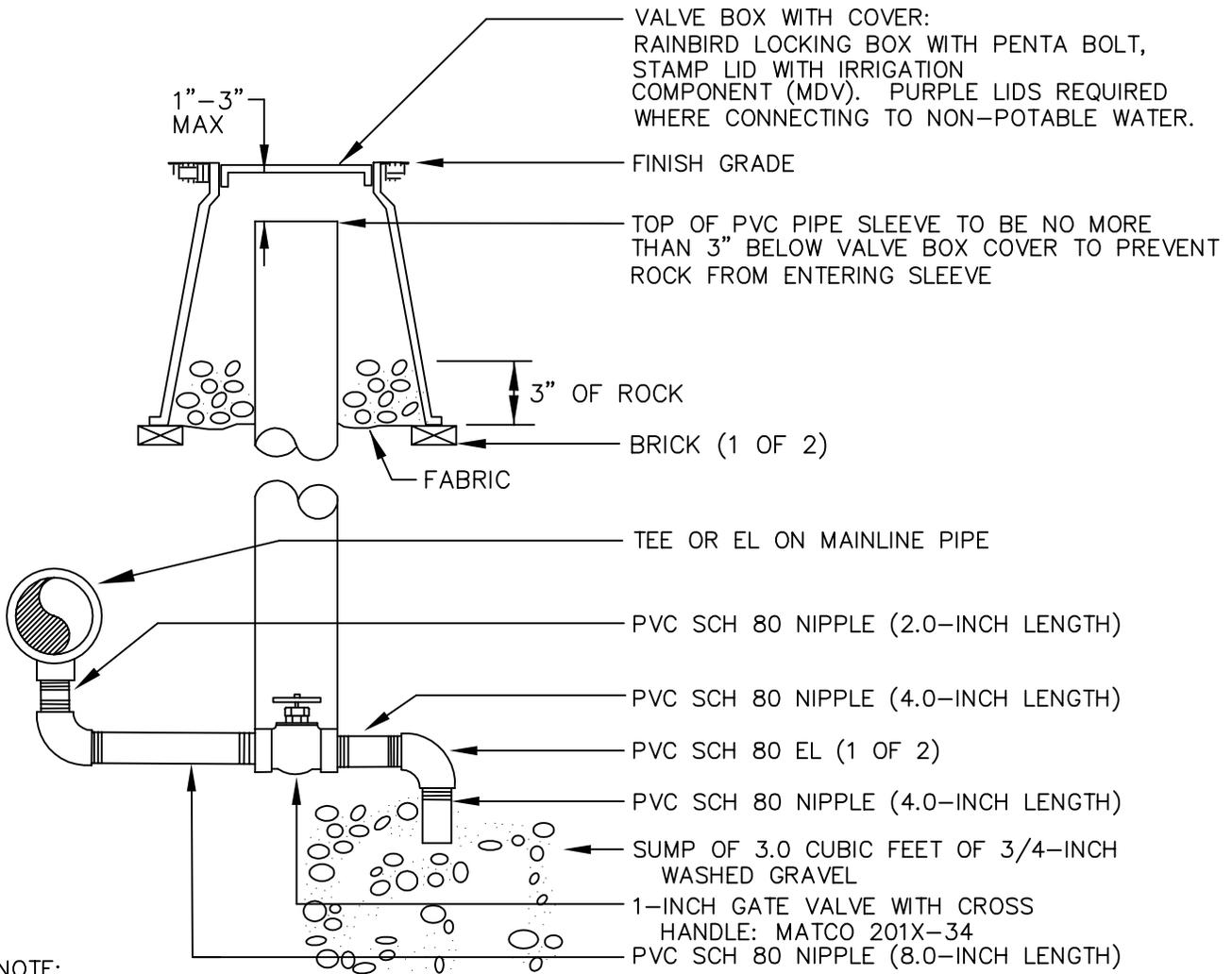




NOTES:

1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.
2. SET A 4-INCH THICK CONCRETE PAD BELOW VALVE WITH NO. 4 REBAR.

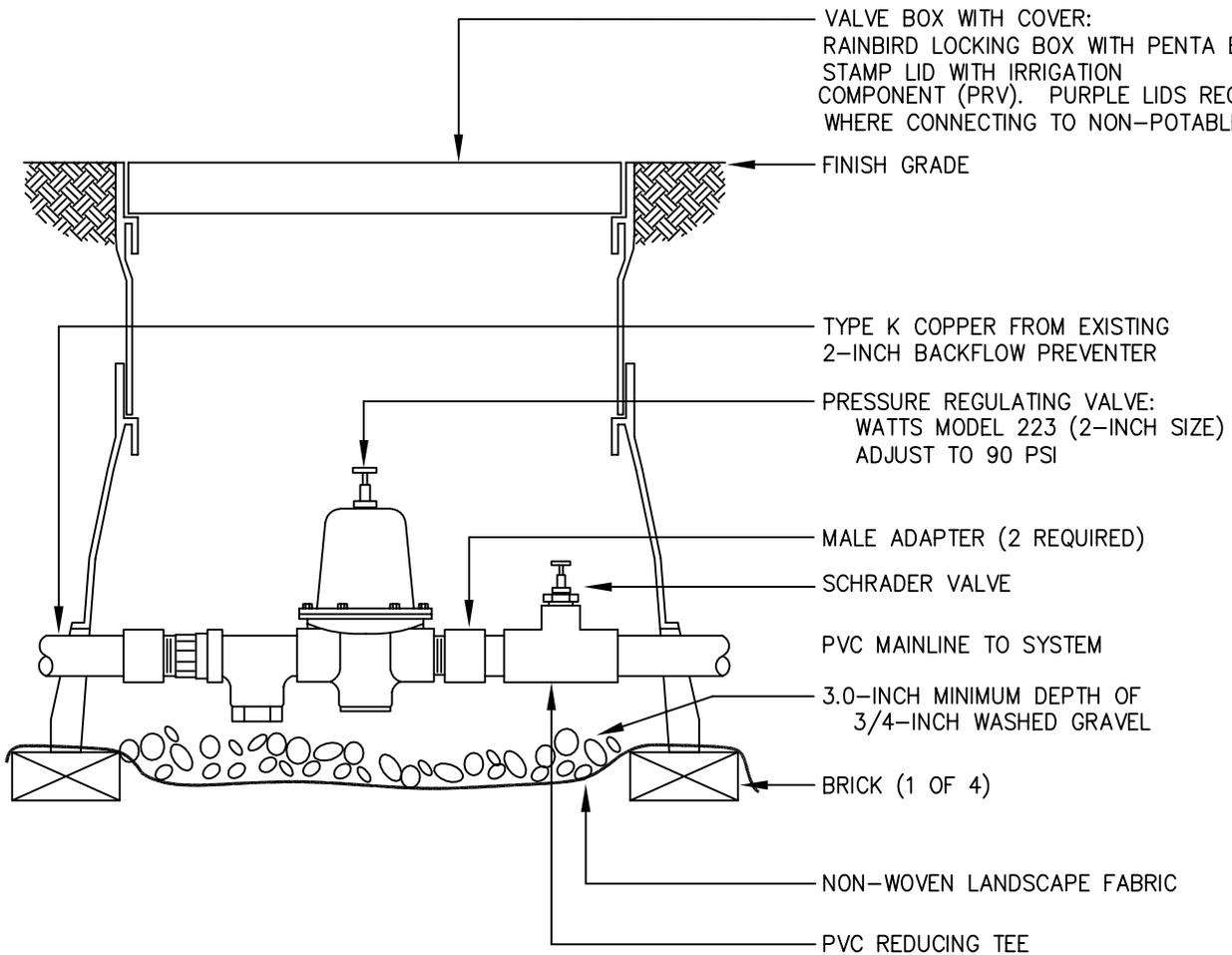


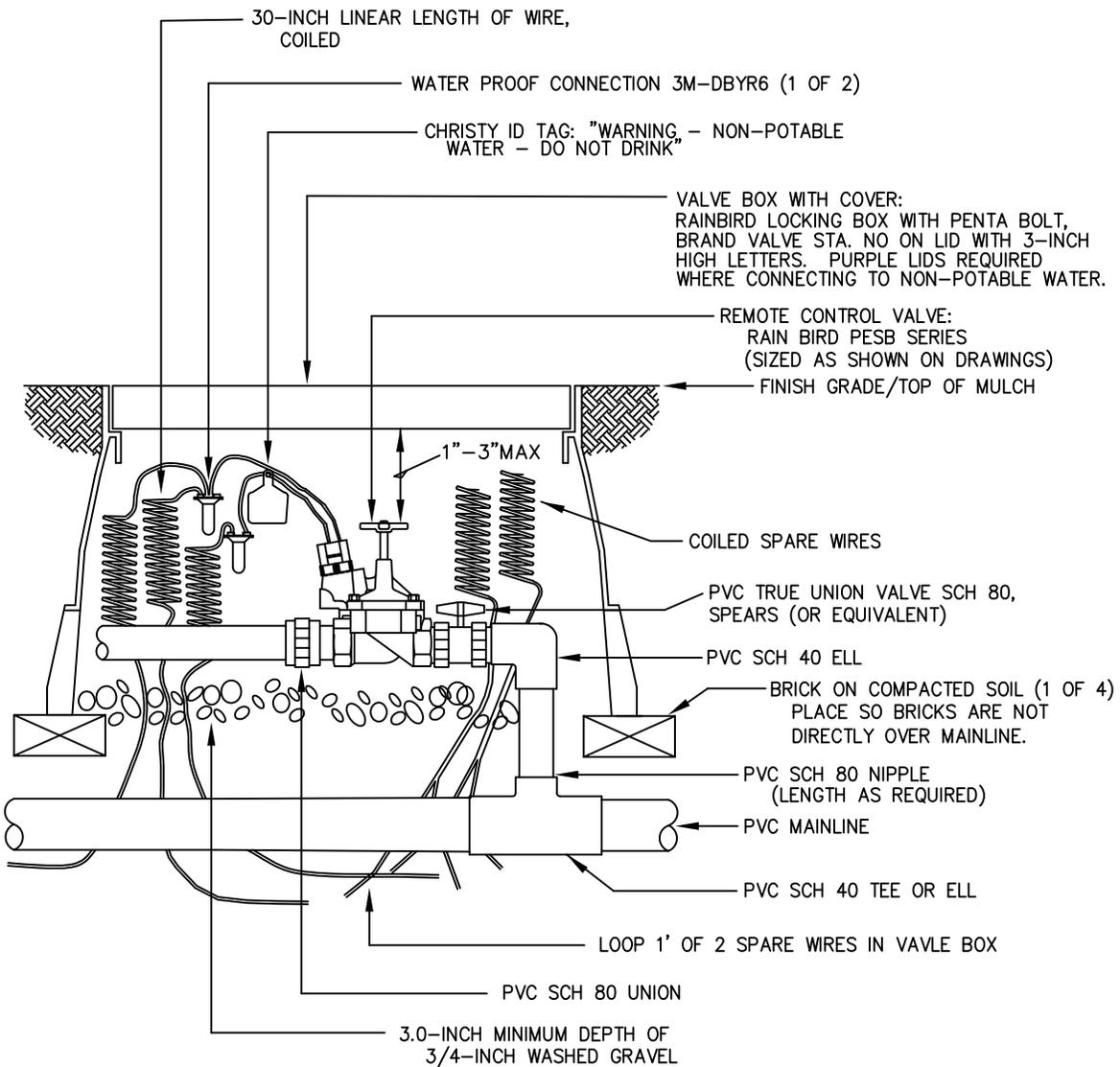


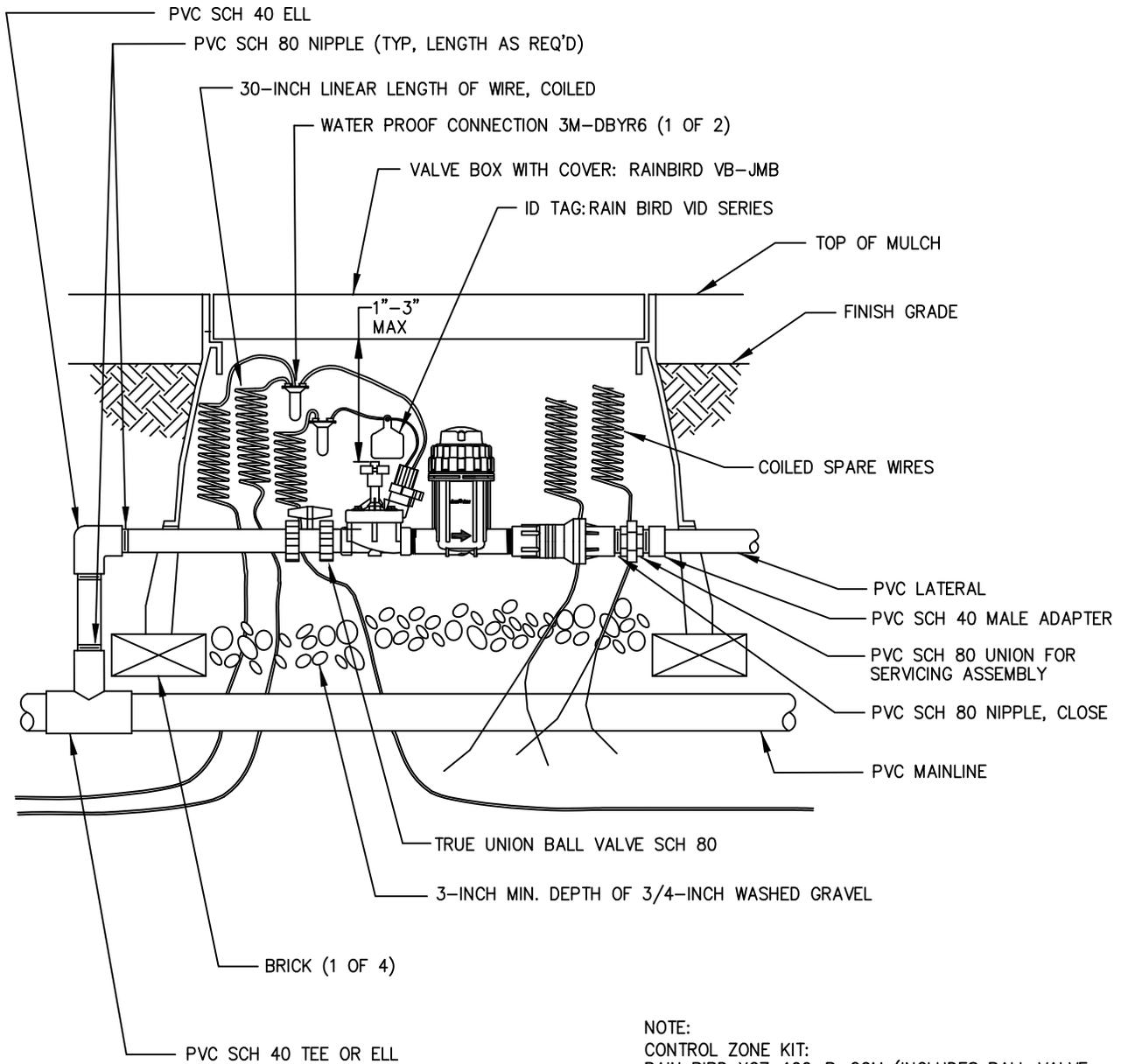
NOTE:

1. SLEEVE TO BE SET SQUARE OVER GATE VALVE TO ALLOW FOR OPERATION OF VALVE WITHOUT BINDING.



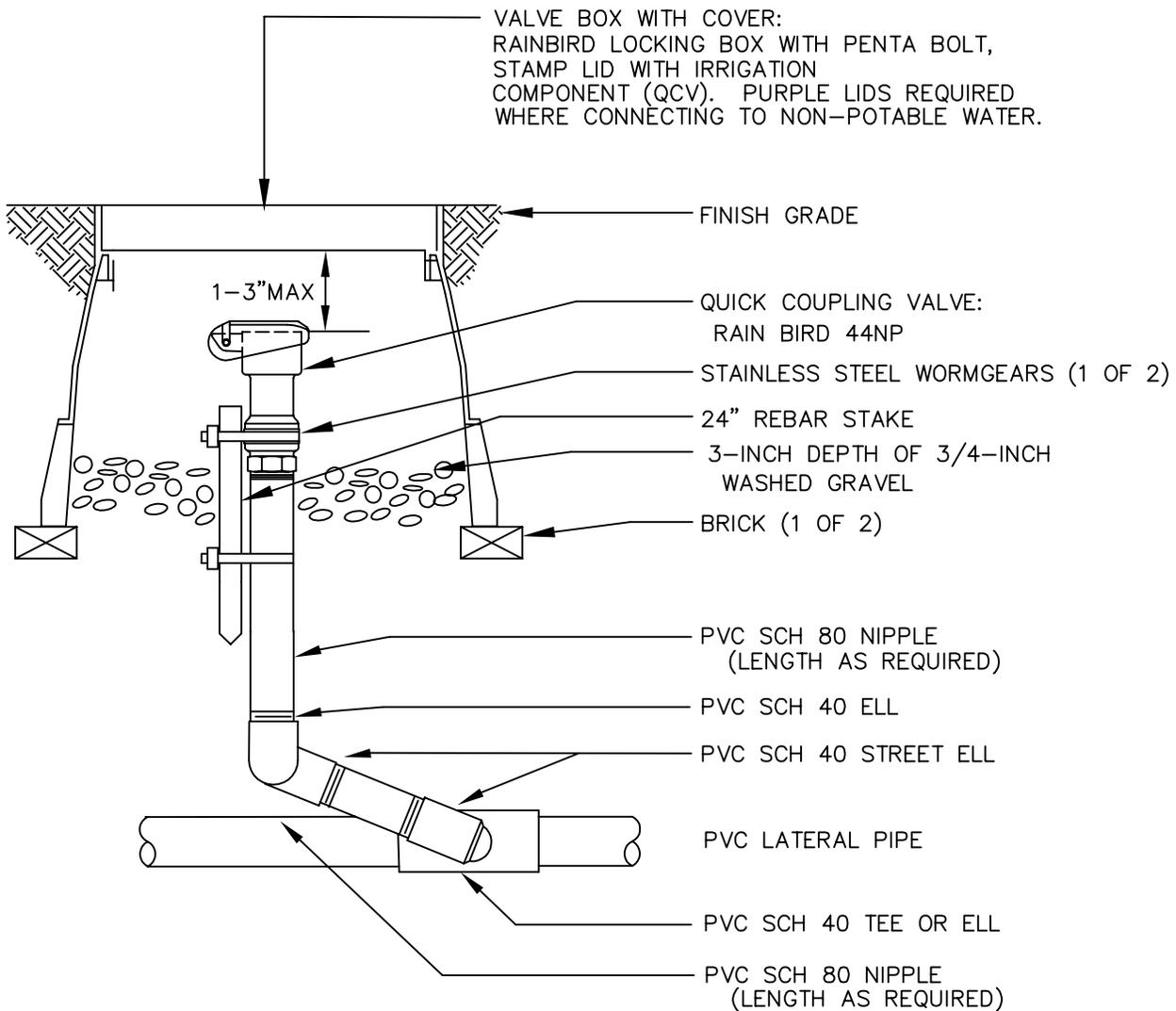






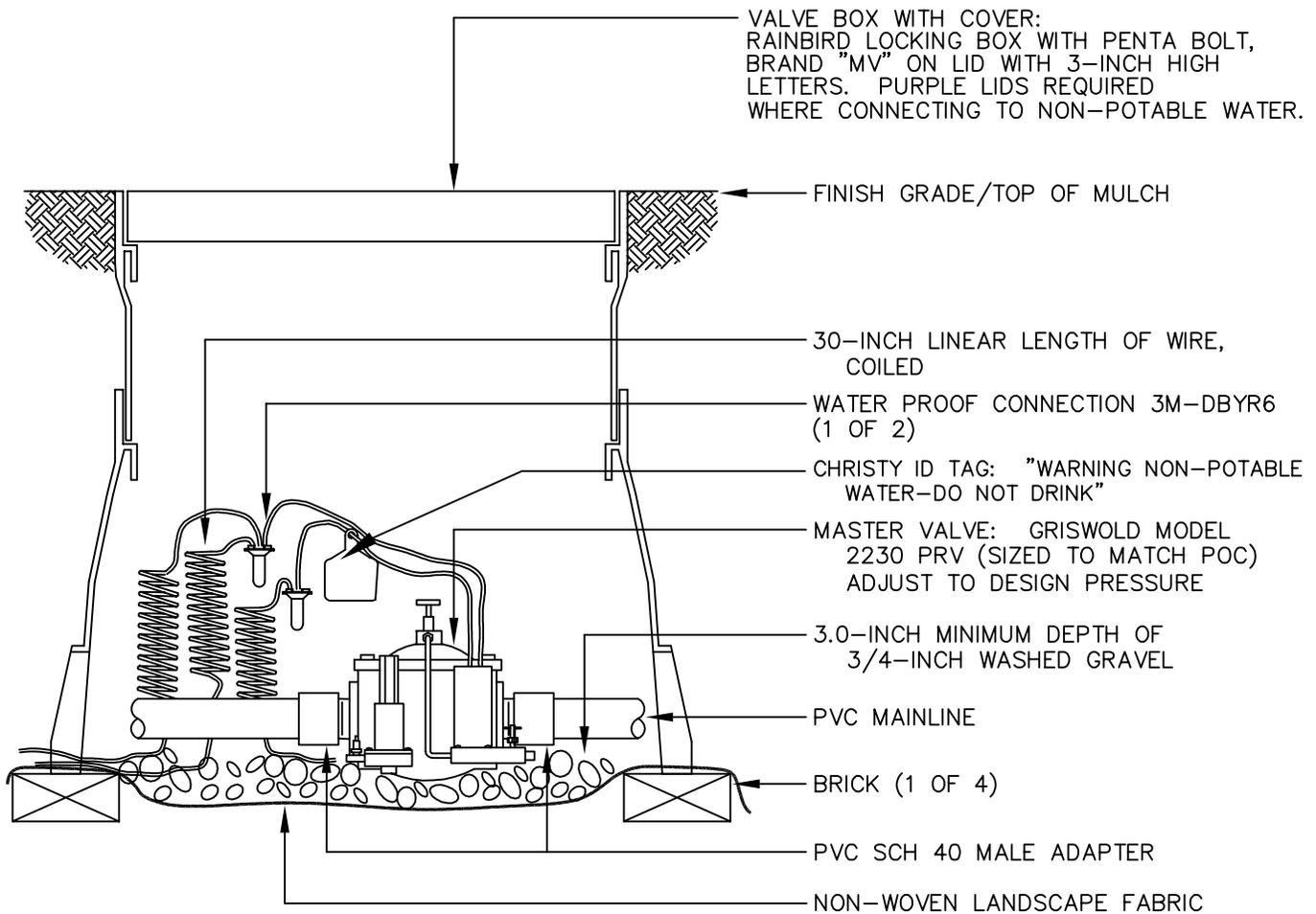
NOTE:
 CONTROL ZONE KIT:
 RAIN BIRD XCZ-100-B-COM (INCLUDES BALL VALVE,
 QKCHK200 BASKET FILTER AND PSI-M40X-100
 PRESSURE REGULATOR)

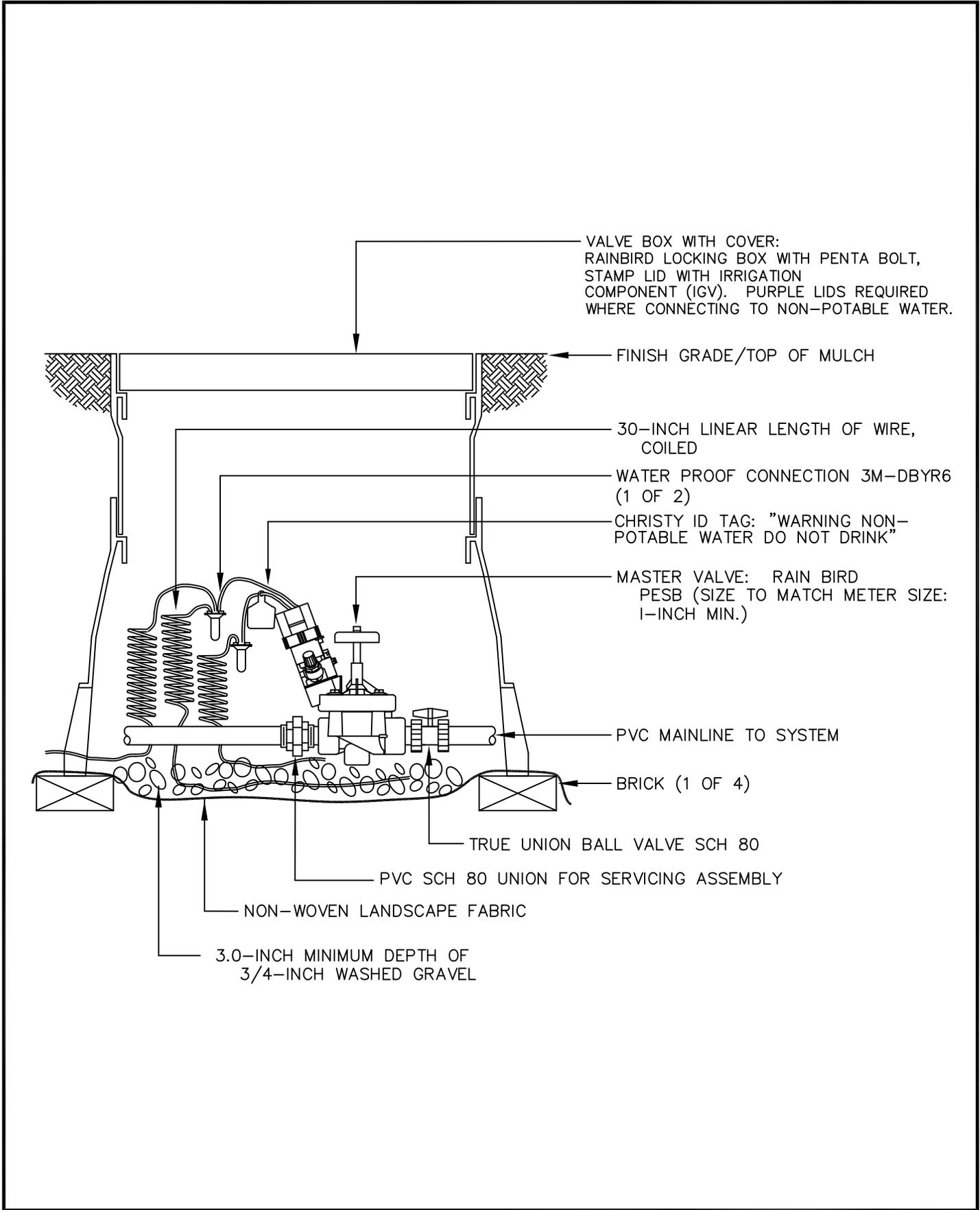


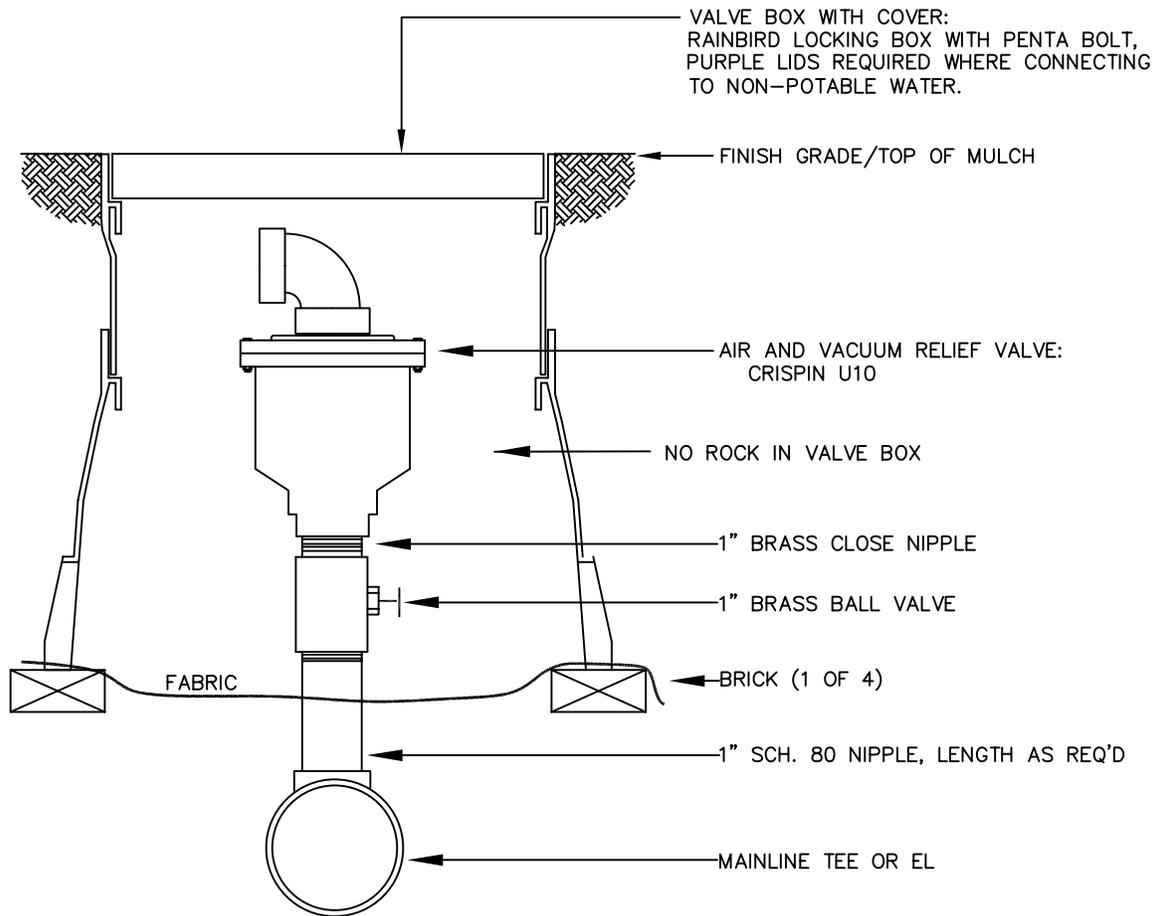


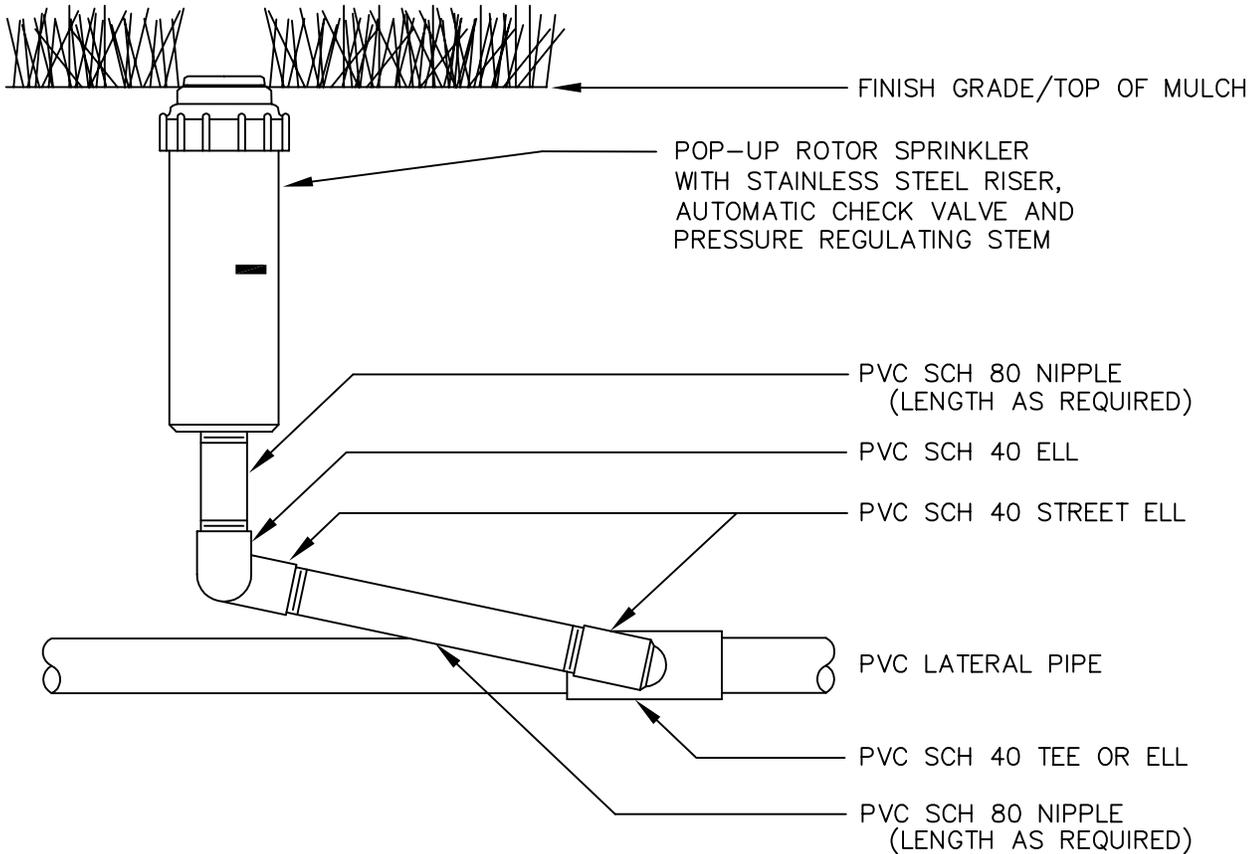
NOTE:
1. QUICK COUPLER SHALL BE INSTALLED A MAXIMUM OF 3" BELOW VALVE BOX LID.





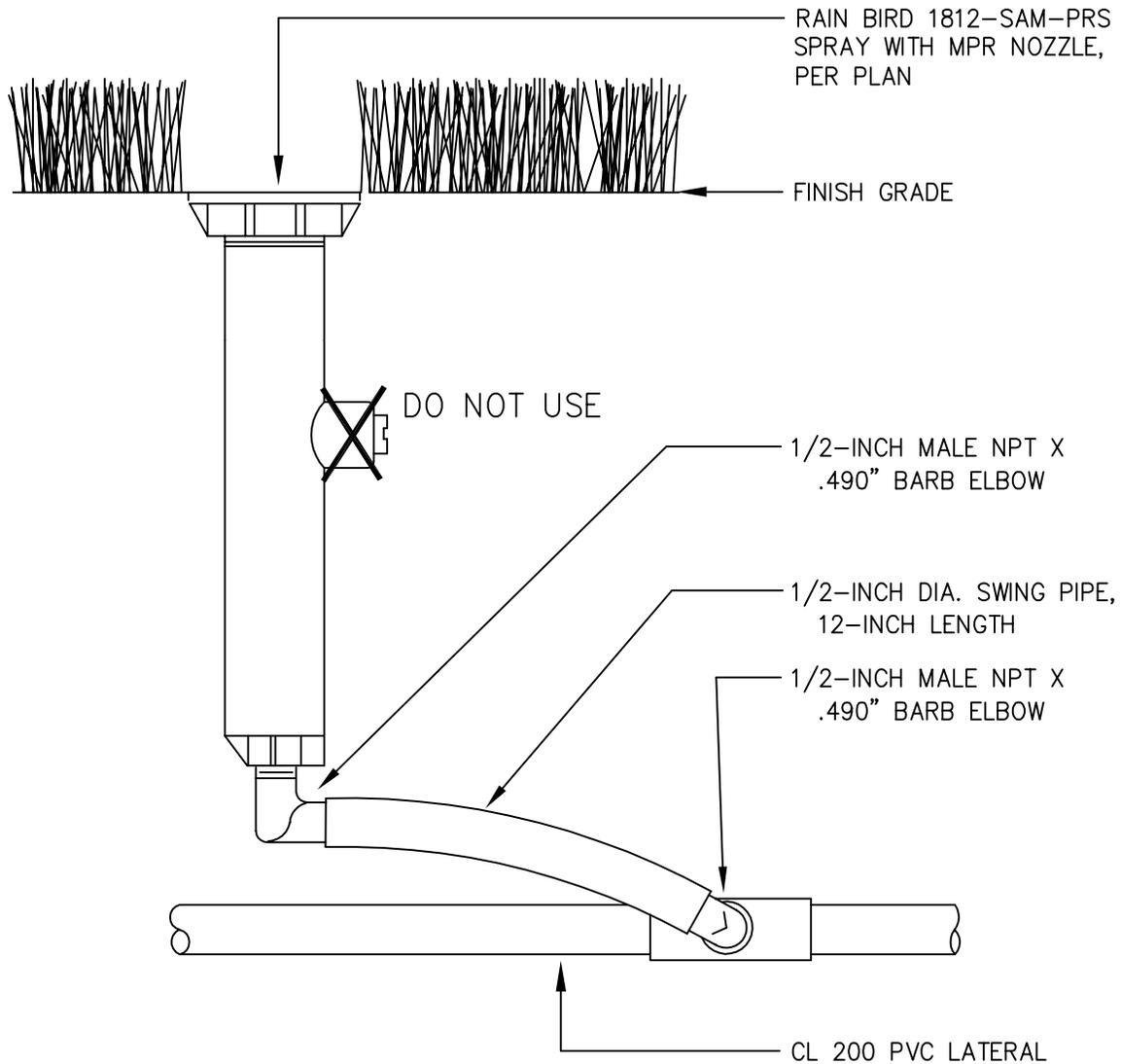






PRESSURE REGULATING STEM

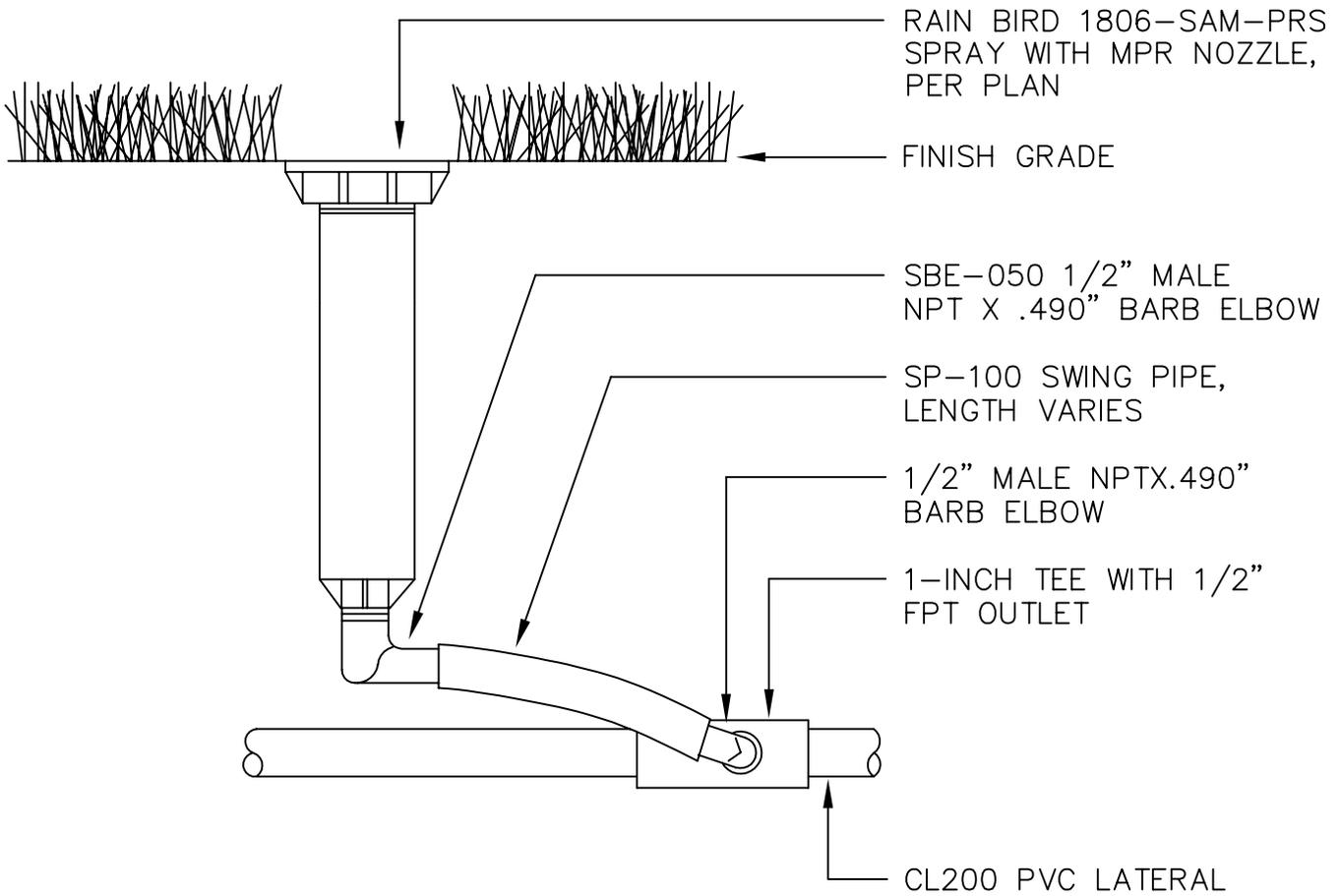




NOTES:

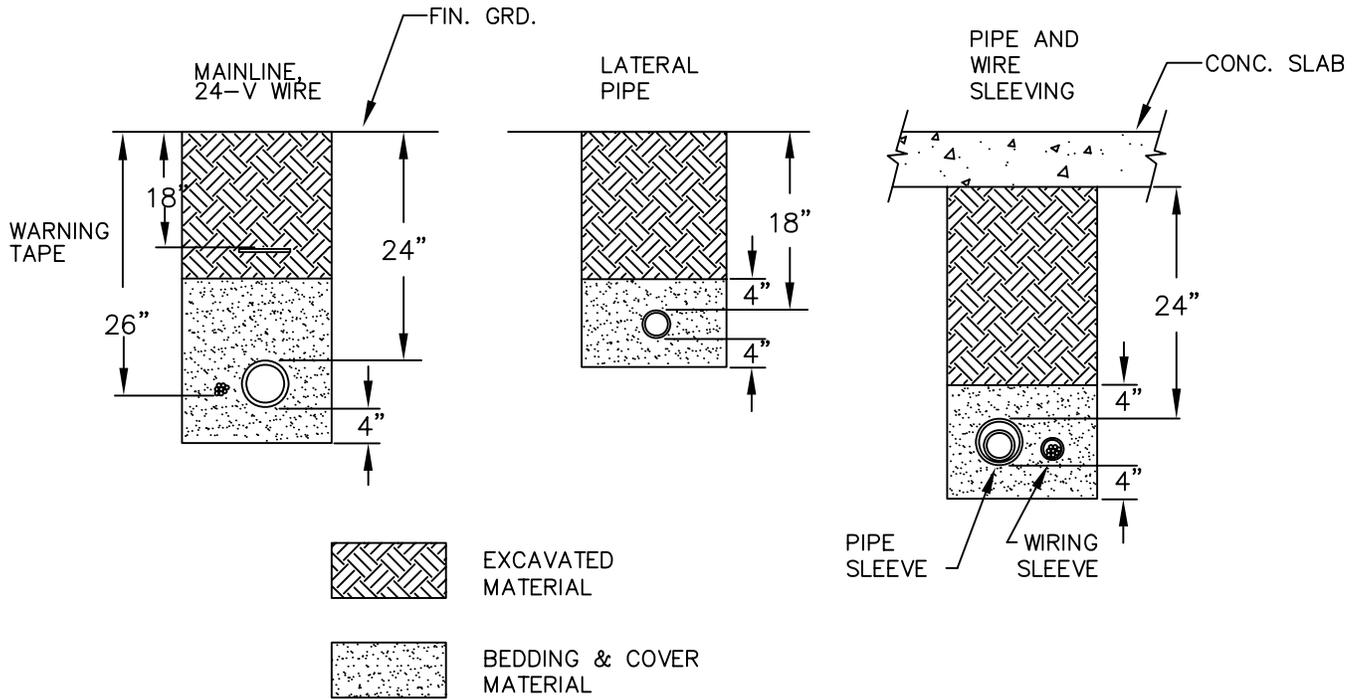
1. PRS MAY NOT OPERATE PROPERLY IF NON-RAIN BIRD NOZZLES ARE SUBSTITUTED.





NOTE: PRS MAY NOT OPERATE PROPERLY IF NON-RAIN BIRD NOZZLES ARE SUBSTITUTED.

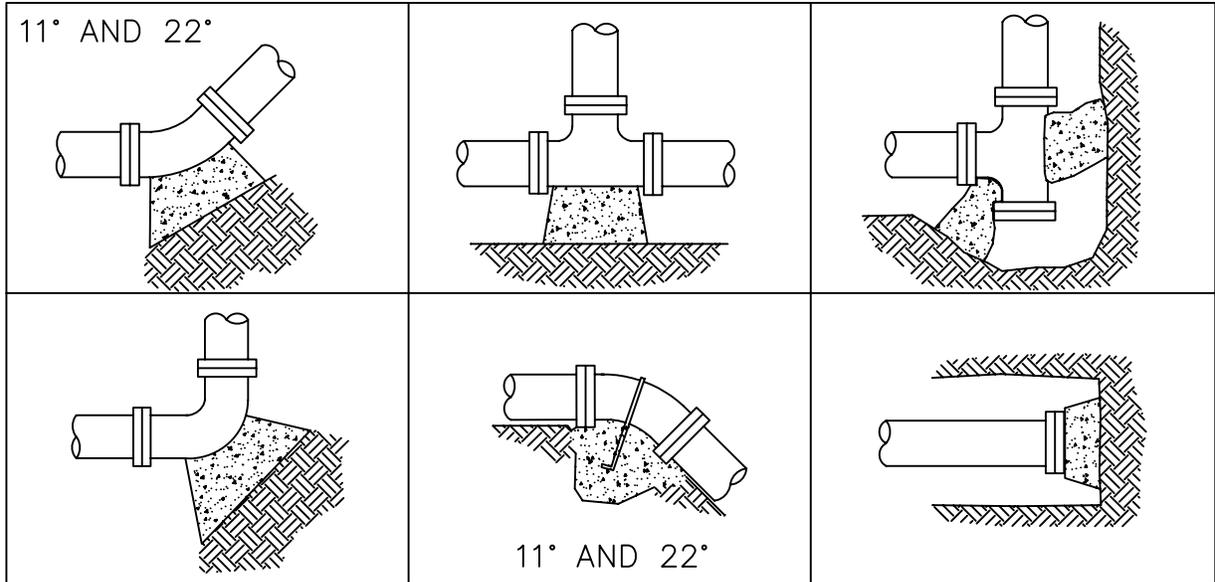




NOTES:

1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
2. ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. "SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MIN. OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
3. ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. TAPE AND BUNDLE 24-V WIRE EVERY 10' AND PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30 DEGREES.





THRUST BLOCK SURFACE AREA AGAINST UNDISTURBED SOIL (SF)

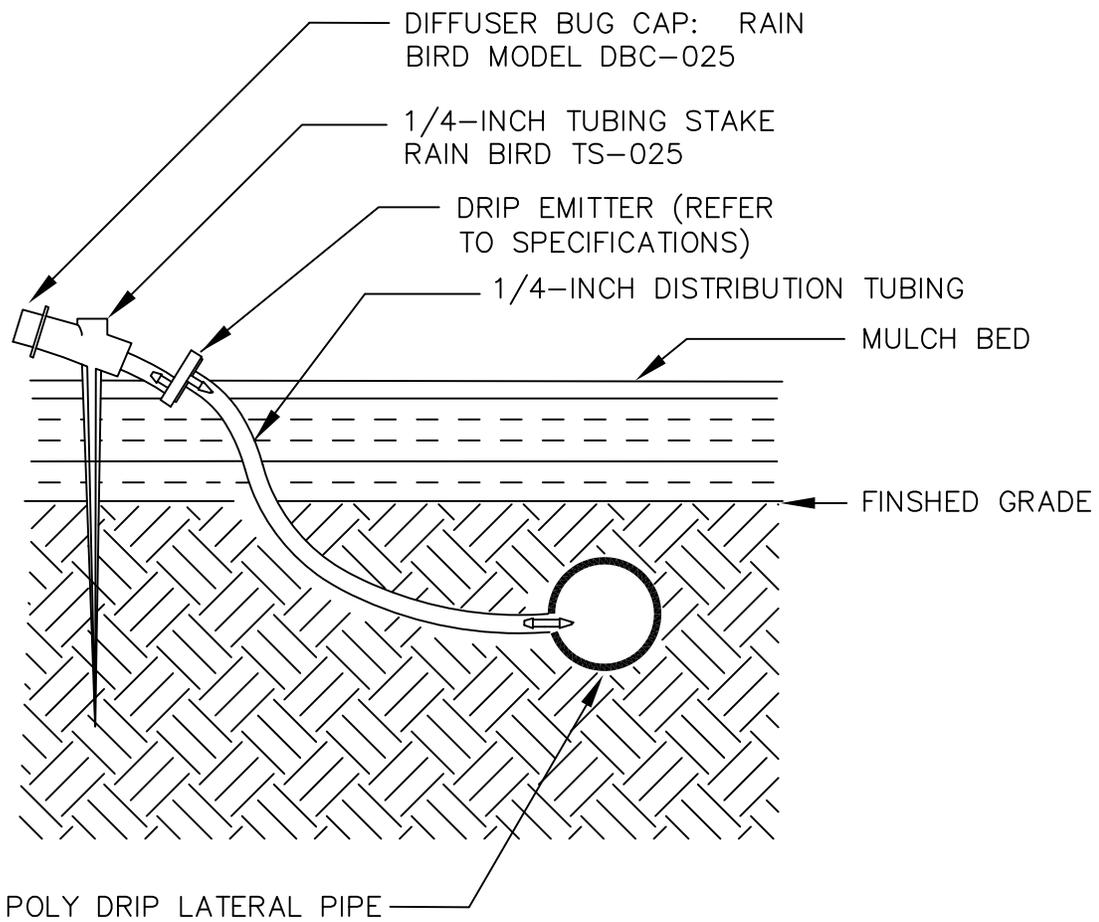
PIPE SIZE	BENDS				TEE OR DEAD END
	11°	22-1/2°	45°	90°	
3"	0.3	0.3	0.6	1.1	0.8
4"	0.5	0.5	1.1	1.9	1.4
6"	1.1	1.1	2.2	4.0	2.8
8"	1.8	1.8	3.6	6.5	4.7

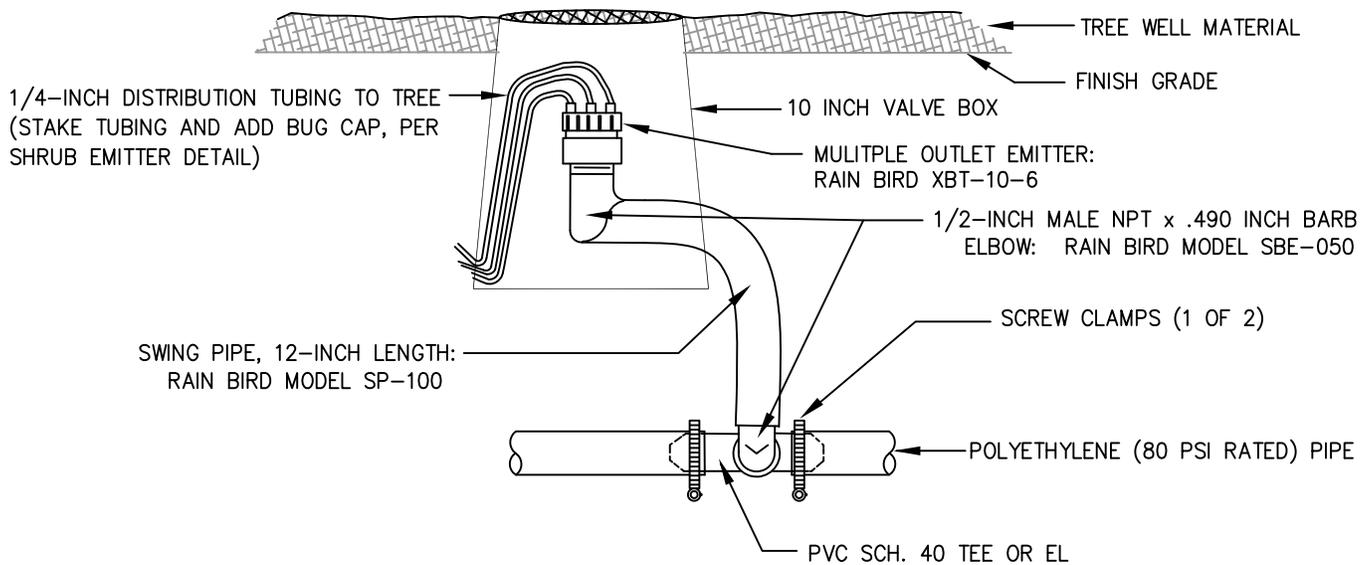
*BASED ON 2,000 PSF BEARING CAPACITY

NOTES:

1. USE NO. 4 REBAR WITH MASTIC COATING WHERE PIPE MUST BE ANCHORED TO THRUST BLOCK.
2. INSTALL THRUST BLOCK SO THE HORIZONTAL AND VERTICAL DIMENSIONS OF THE THRUST BLOCK ARE APPROXIMATELY EQUAL.
3. PLASTIC COVERING NOT SHOWN FOR CLARITY OF DETAIL.

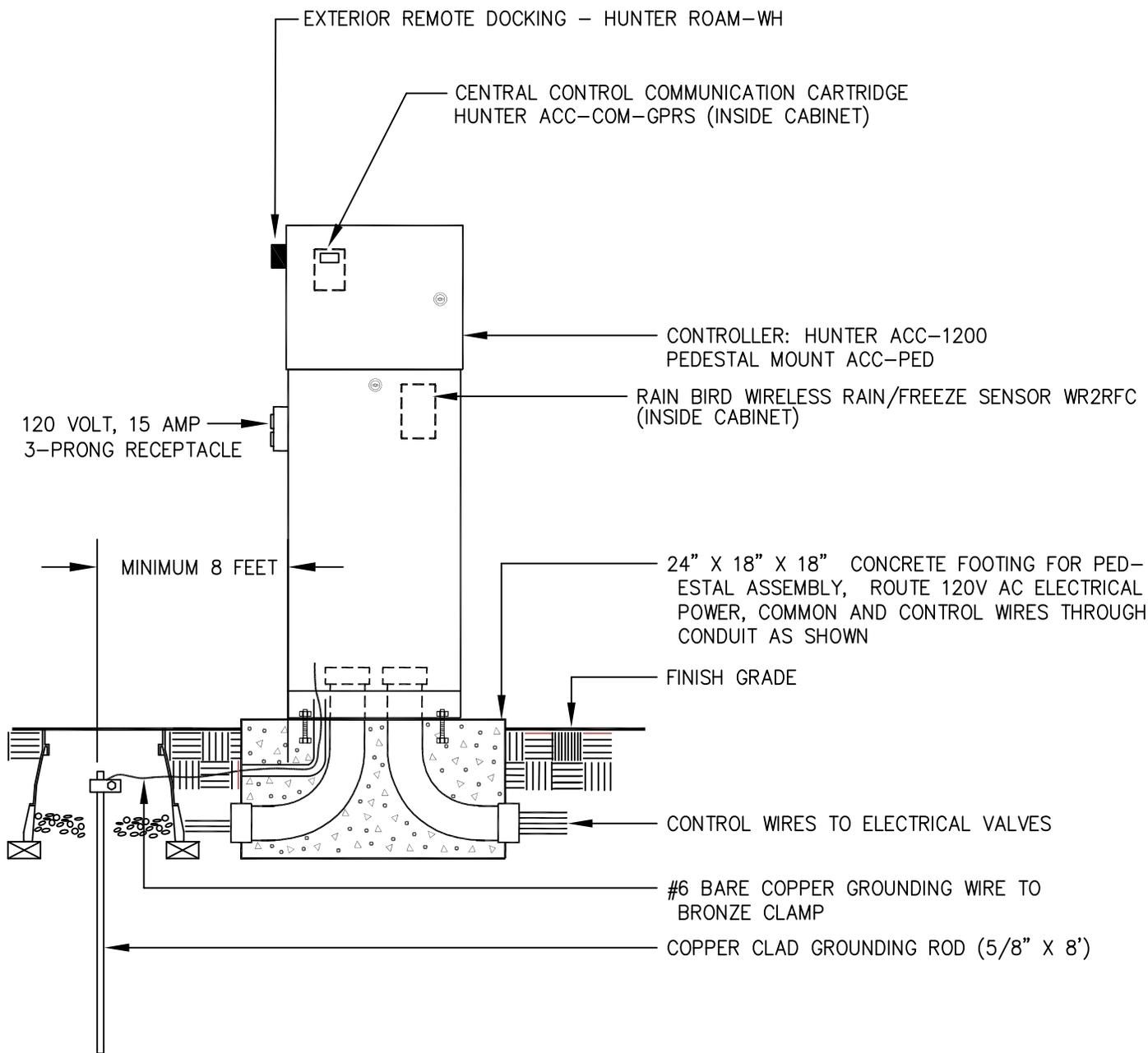






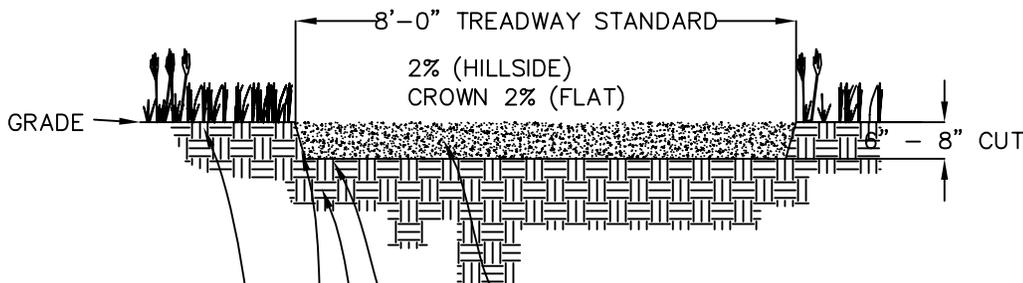
NOTE:
1. IF PVC PIPE IS UTILIZED, SOLVENT WELD TEE OR ELBOW SHALL BE USED.





NOTE: ALL ELECTRICAL WORK MUST CONFORM TO LOCAL CODES. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION REQUIREMENTS.





COMPACTED 6" - 8" OF 3/8" - CRUSHER FINES; COMPACT WET FOR BEST RESULTS. SLOPE PER CONDITION OF THE SITE

GEOTEXTILE FABRIC

COMPACTED SUBGRADE

SHARP EDGE CUT, MAY NEED STABILIZING ON SLOPES

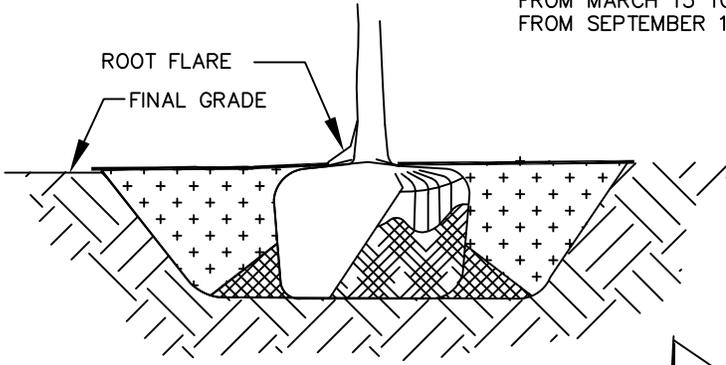
REVEGETATE NATIVE EDGES AS DIRECTED

NOTES:

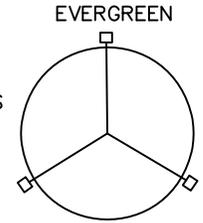
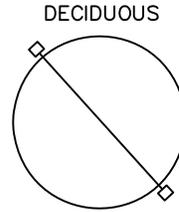
1. THE EXCAVATED AREA TO BE COMPACTED USING A DOUBLE-DRUM VIBRATORY ROLLER.
2. TREAD SURFACE ("CRUSHERFINE" OR "GRANITE SANDS") TO BE RAKED BY HAND OR MACHINE TO PROVIDE ADEQUATE OUTSLOPING (2%).
3. WHILE WET, THE SURFACE IS COMPACTED DOWN TO THE FINAL GRADE WITH THE VIBRATORY ROLLER.
4. TRENCH SHOULD BE COMPACTED TO 8" DEPTH. COMPACTED SUBGRADE IS TO BE COVERED WITH GEOTEXTILE FABRIC PRIOR TO INSTALLATION OF GRANITE SANDS.
5. FOR AREAS WITH A CROSS SLOPE, A DRAINAGE SWALE IS INSTALLED ON THE UPHILL SIDE OF THE TRAIL.
6. TRAIL ALIGNMENT SHOULD WORK WITH THE NATURAL TOPOGRAPHY.
7. CONSIDER PROVIDING OCCASIONAL VIEWING AND SEATING AREAS ALONG THE PATH TO ACCOMMODATE PASSIVE RECREATION AREAS.
8. TRAIL COLOR TO BE APPROVED BY THE PARKS & RECREATION DIRECTOR OR DESIGNEE.



OPTIMUM PLANTING PERIODS ARE FROM MARCH 15 TO JUNE 15 AND FROM SEPTEMBER 1 TO OCTOBER 15



PLANT TREE SO THAT ROOT FLARE IS 2" ABOVE FINAL GRADE.



POSITION OF STAKES SHALL BE ORIENTED WITH REGARDS TO PREVAILING WINDS. ORIENT STAKES TO NORTH AS SHOWN.

DECIDUOUS

EVERGREEN

SET PLUMB IN THE CENTER OF PLANTING PIT AND FACE FOR BEST EFFECT.

PLASTIC T-POST CAP

REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM ENTIRE ROOT BALL AND TRUNK.

3" DEEP MULCH RING PLACED A MIN OF 4 FT IN DIAMETER. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK.

BACKFILL THE HOLE 1/3 FULL TO STABILIZE THE LOWER PART OF THE ROOT BALL TO PREVENT FROM SHIFTING. FILL THE REMAINDER OF THE HOLE BY ADDING THE SOIL A FEW INCHES AT A TIME AND SETTLE WITH WATER.

GREEN WOVEN POLYPROPYLENE STRAP; 900 LB BREAK STRENGTH (DEEPROOT ARBORTIE7 OR APPROVED EQUIVALENT)

SHAVE ENTIRE OUTER AND BOTTOM 1" OF ROOT BALL SYSTEM OF CONTAINER BOUND ROOTS

BACKFILL MIXTURE SHALL CONSIST OF 2 PARTS NATIVE SOIL AND 1 PART ORGANIC SOIL AMENDMENT.

1:1 SLOPE ON SIDES OF PLANTING HOLE.

PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT.

2 TIMES ROOT BALL DIAMETER

STAKING NOTES:

DECIDUOUS TREES SHALL BE STAKED USING TWO(2) SIX(6) FOOT STEEL T-POSTS DRIVEN PERPENDICULAR TO THE TREE AT 180 DEGREES.

EVERGREEN TREES SHALL BE STAKED USING THREE(3) TWO(2) FOOT STAKES DRIVEN AT 120 DEGREES.

ALL STAKES SHALL BE DRIVEN OUTSIDE OF ROOTBALL AND IN UNDISTURBED SOIL.

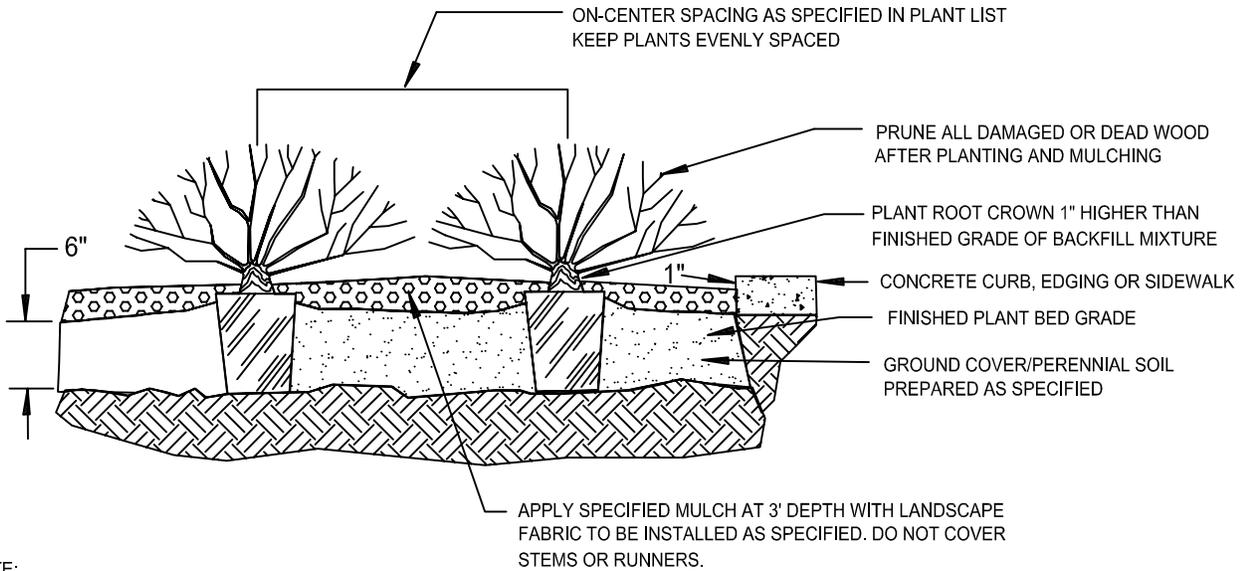
The Town of
ERIE
COLORADO



DRAWING TITLE: TREE PLANTING DETAIL

DRAWING NUMBER: P20A

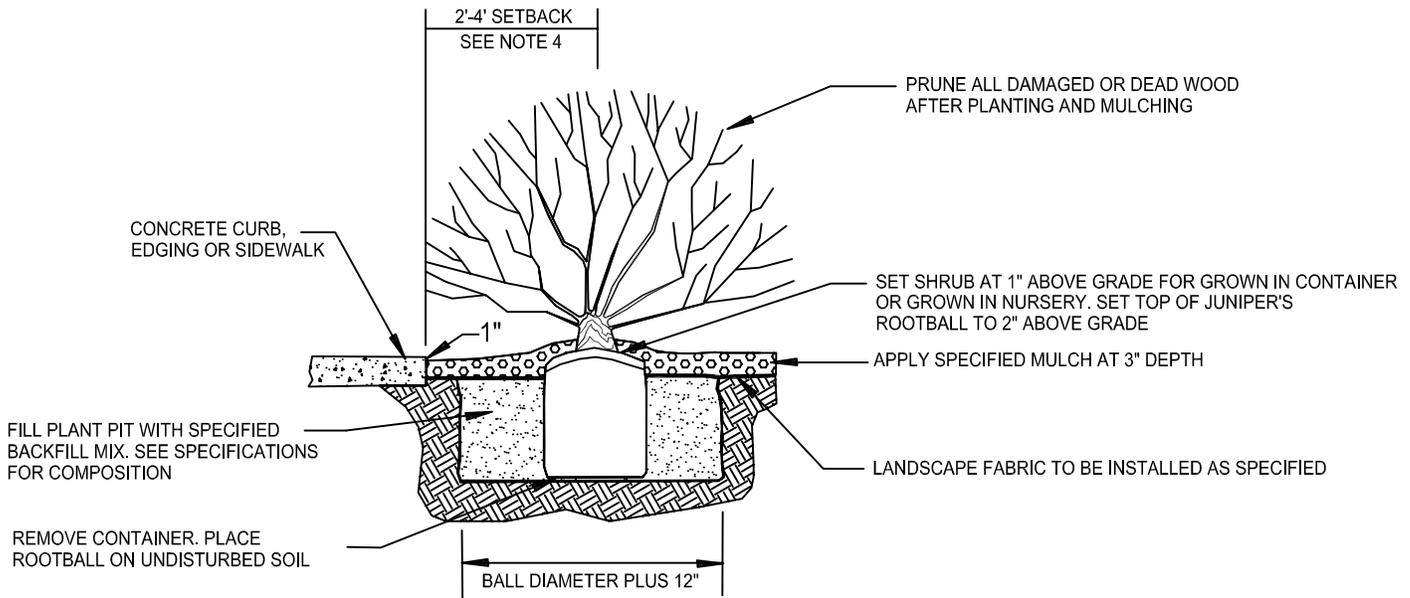
DRAWN BY: D. JENKINS APPROVED BY: G. HEGNER DATE: 1/2014



NOTE:

1. HOLD MULCH GRADE 1" BELOW EDGE OF WALK, EDGING OR CURB. HOLD BACK PLANTS 12-18" FROM EDGES.
2. REMOVE ALL CONTAINERS & POTS PRIOR TO PLANTING.

GROUNDCOVER / PERENNIAL

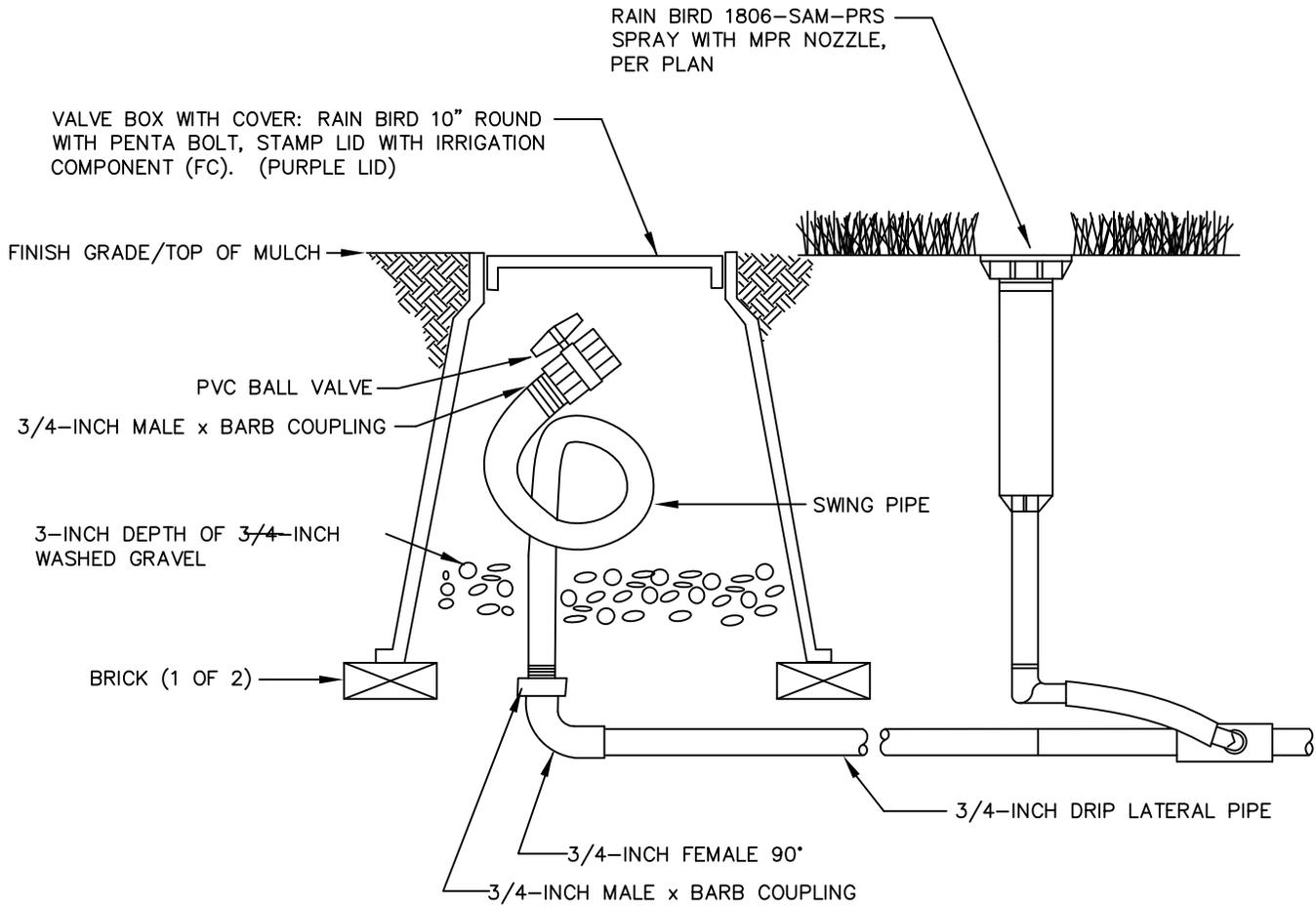


SHRUB

NOTE:

1. DO NOT PLANT ANY PLANT WITH ROOTBALL NOT IN CONFORMANCE WITH COLORADO NURSERY ACT REQUIREMENTS
2. HOLD MULCH GRADE 1" BELOW EDGE OF WALK, EDGING OR CURB
3. SHRUBS NOT PLANTED WITHIN A MULCHED BED REQUIRE A 4" HIGH EARTH SAUCER TO BE CONSTRUCTED CONTAINING A 1' RADIUS AND 3" DEEP MULCH COLLAR.
4. USE A 2' TO 4' SETBACK DEPENDING ON SPECIES. SETBACK TO ACCOMODATE MATURE SPREAD OF SPECIES TO PREVENT OVERHANG.
5. REMOVE ALL CONTAINERS & POTS PRIOR TO PLANTING.

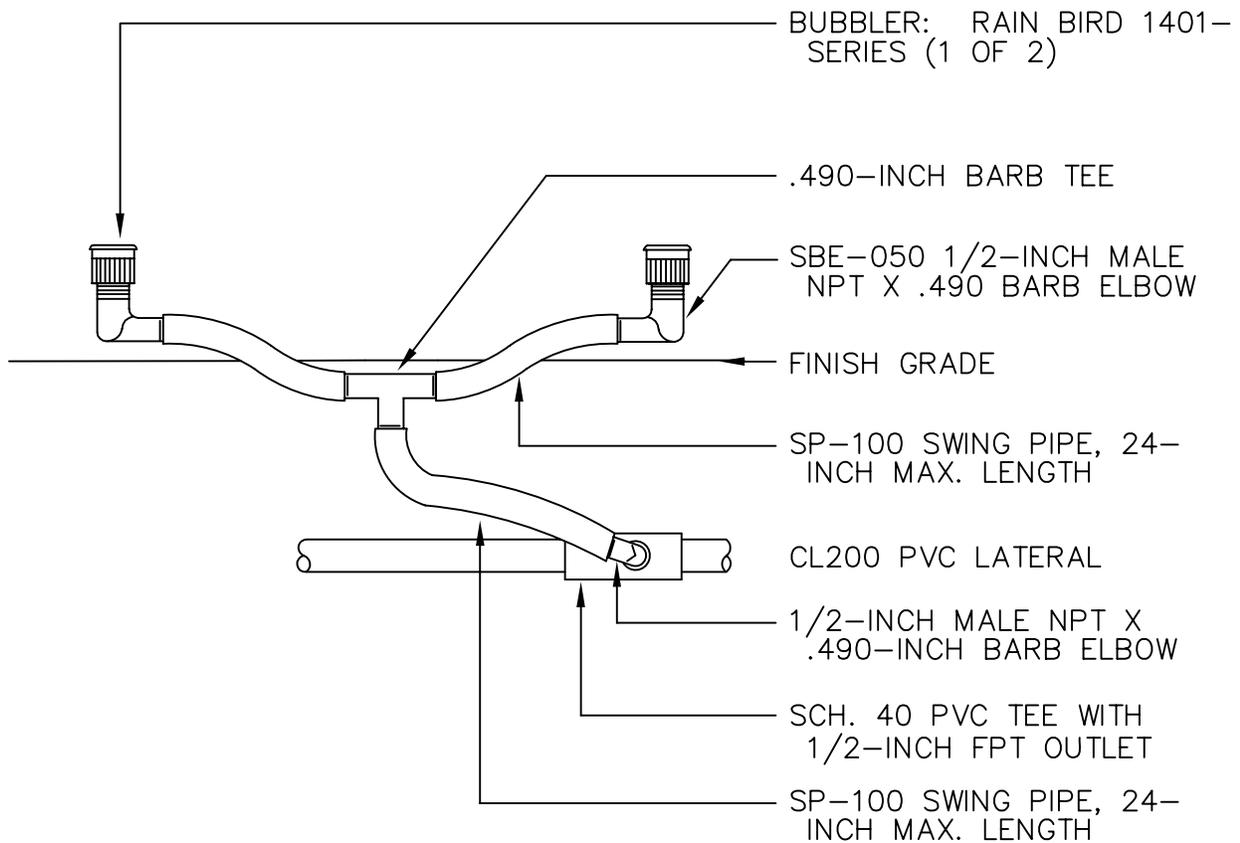




NOTE:

1. LOOP IRRIGATION DRIP TUBING INSIDE VALVE BOX FOR EXTENSION OUTSIDE OF BOX DURING BLOWOUT.



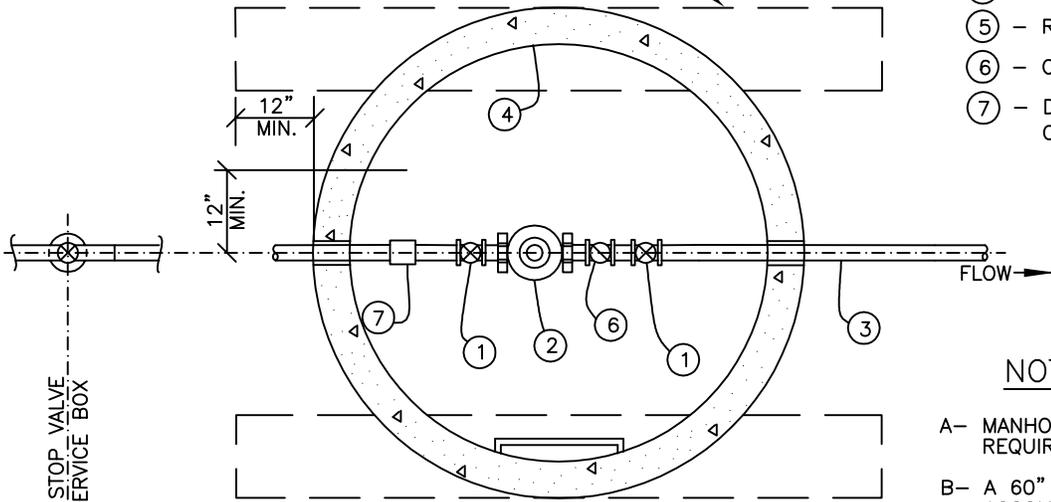


- NOTES:
 1. DO NOT INSTALL BUBBLERS ON SLOPES



CONCRETE MANHOLE BASE BEAMS ARE TO BE USED WITH 1/2" ROCK, 6" DEEP MINIMUM

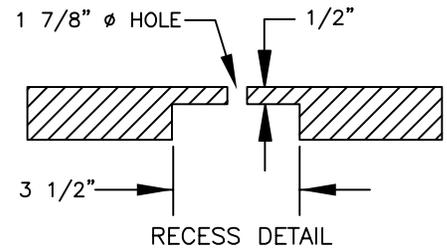
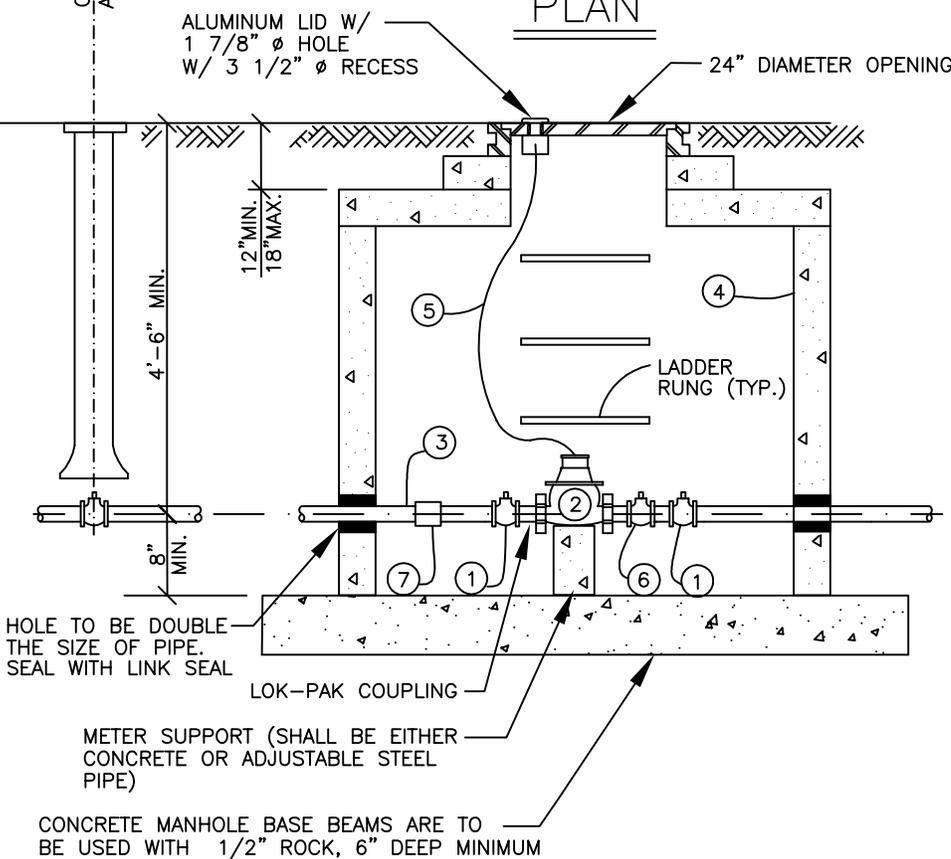
- ① - LOCKABLE BALL VALVE
- ② - METER
- ③ - TYPE K COPPER TUBING
- ④ - CONC. MANHOLE
- ⑤ - REMOTE REGISTER WIRE
- ⑥ - CHECK VALVE
- ⑦ - DRESSER STYLE MECHANICAL COUPLING



NOTES

- A- MANHOLE BASE BEAMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
- B- A 60" MANHOLE PIT WILL ACCOMMODATE 1 1/2" & 2" METERS.
- C- JOINTS SHALL BE EITHER THREADED, SOLDERED WITH 95-5 TINANTIMONY SOLDER (BRAZED), FLARED OR COMPRESSION. NO SWEATED JOINTS ALLOWED.
- D- NO CONCRETE TO BE LAID IN FLOOR OF METER MANHOLE.
- E- METER SHALL BE FLANGED WITH BRASS COMPANION FLANGES.
- F- NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF FIVE FEET BEYOND THE METER PIT ON THE OUTLET SIDE.
- G- LADDER RUNGS SHALL BE PLACED IN AN ACCESSIBLE POSITION WITHIN THE METER PIT FOR EASIEST ACCESS
- H- HOLE IN LID TO BE RECESSED TO ACCEPT TRACE MODEL AMR 9.0 TRANSPONDER

PLAN



ELEVATION

The Town of
ERIE
COLORADO



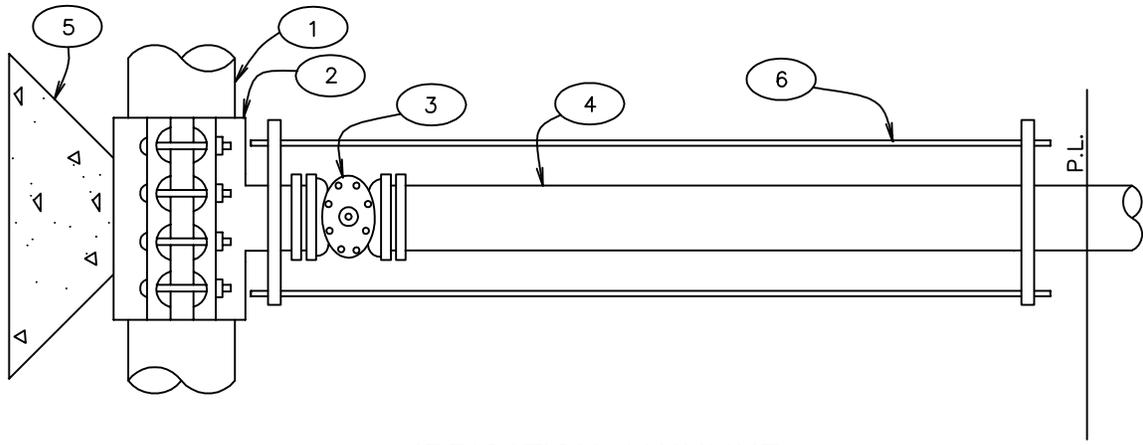
DRAWING TITLE: 1-1/2" & 2" IRRIGATION
METER PIT

DRAWING NUMBER: P23

DRAWN BY: D. JENKINS

APPROVED BY: G. HEGNER

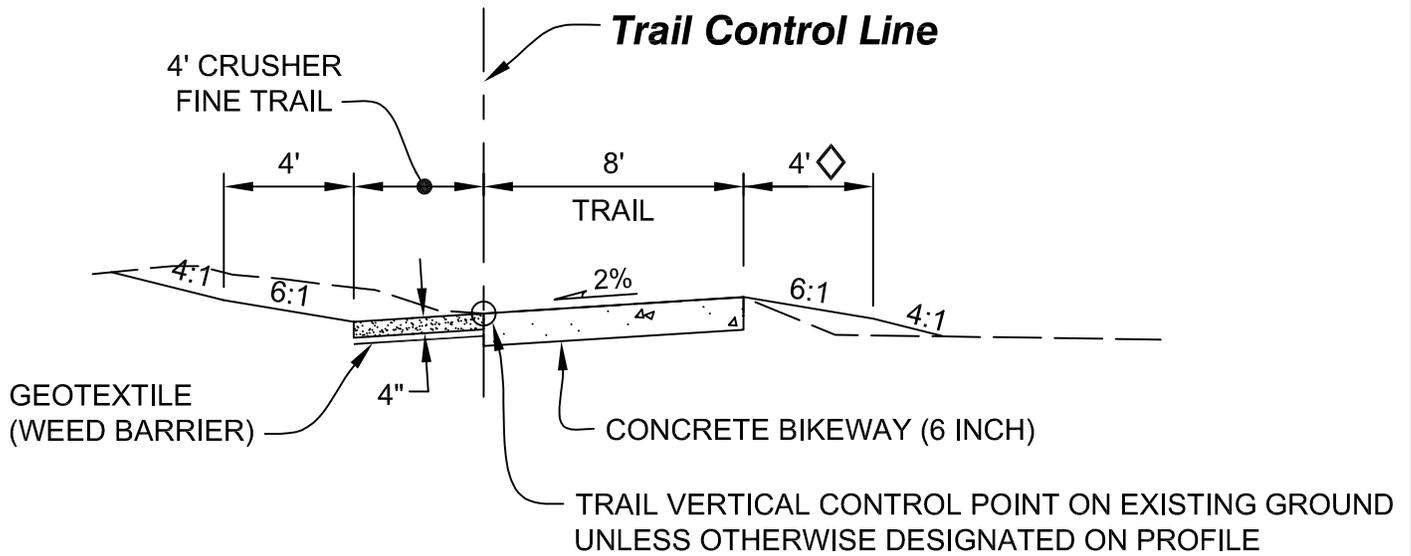
REV. DATE: 01/2013



IRRIGATION MAINLINE

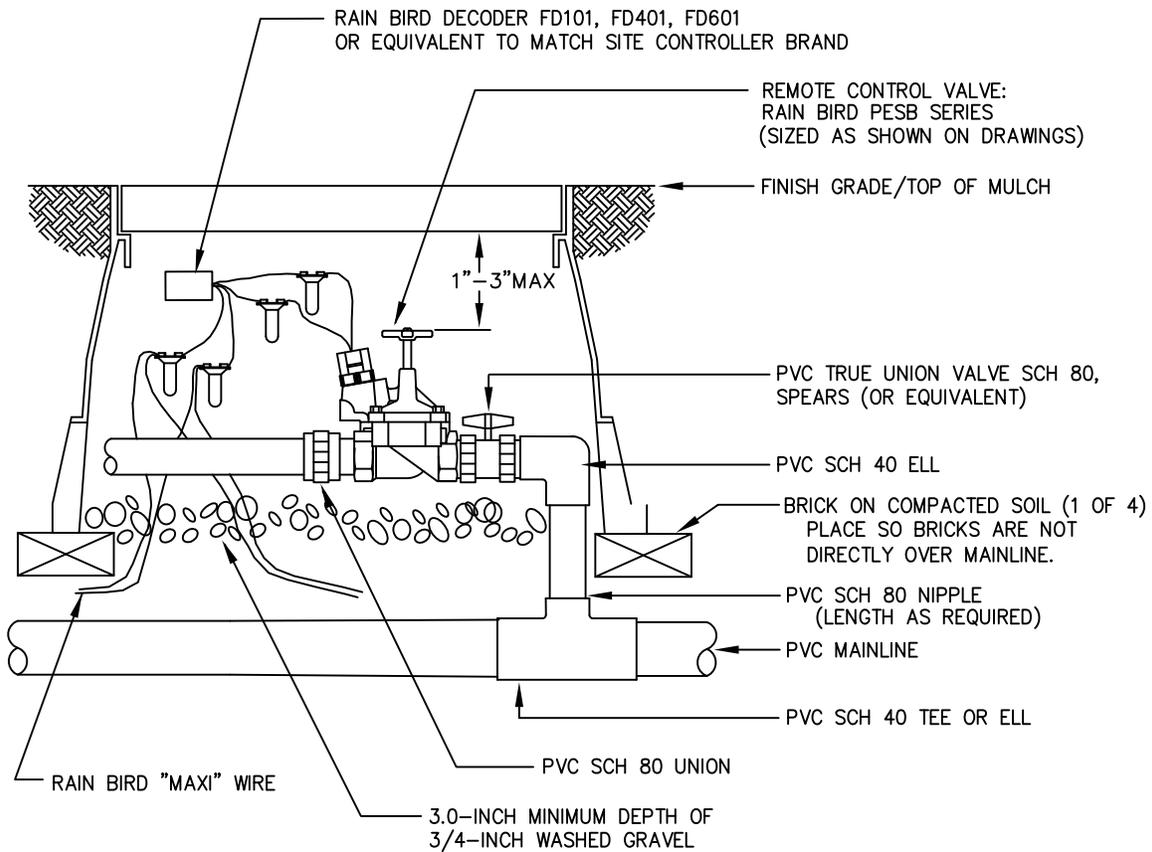
- 1 EXISTING MAIN
- 2 IRRIGATION SADDLE TEE
- 3 ISOLATION GATE VALVE ASSEMBLY- SEE DETAIL DRAWING
- 4 CL200 PVC MAINLINE PIPE
- 5 CONCRETE KICKBLOCK
- 6 TIE RODS (MEGA LUGS MAY BE USED IN PLACE OF RODDING)





TYPICAL SECTION



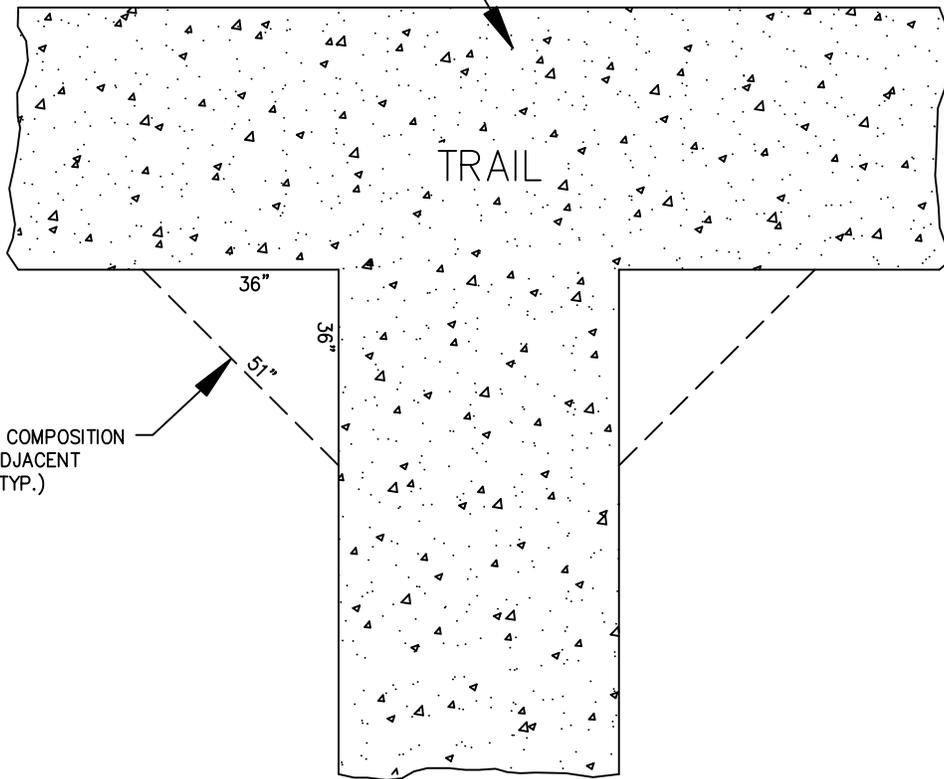


NOTES:

1. TWO-WIRE DRIP VALVES MUST INCLUDE RAIN BIRD XC2-100-B-COM KIT AS PART OF THE VALVE ASSEMBLY
2. 2-3 FOOT OF "MAXI" WIRE MUST BE EXPOSED IN VALVE BOX



TYPICAL 8' TRAIL
(CONCRETE OR CRUSHER FINES)

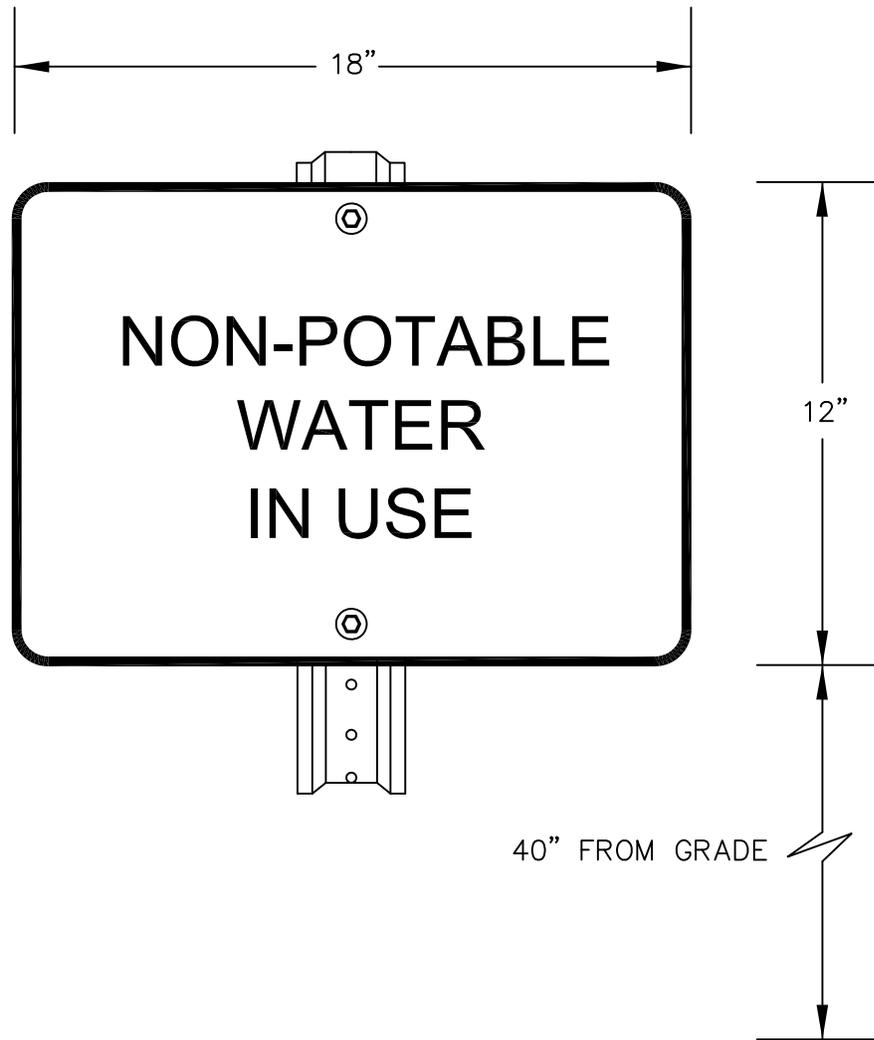


MATCH MATERIAL COMPOSITION
AND DEPTH TO ADJACENT
TRAIL SURFACE (TYP.)

NOTES:

1. TRAIL CONNECTIONS THAT DO NOT MEET AT A 90 DEGREE ANGLE WILL BE FITTED IN THE FIELD AND APPROVED BY THE PARKS SUPERINTENDENT OR DESIGNEE.

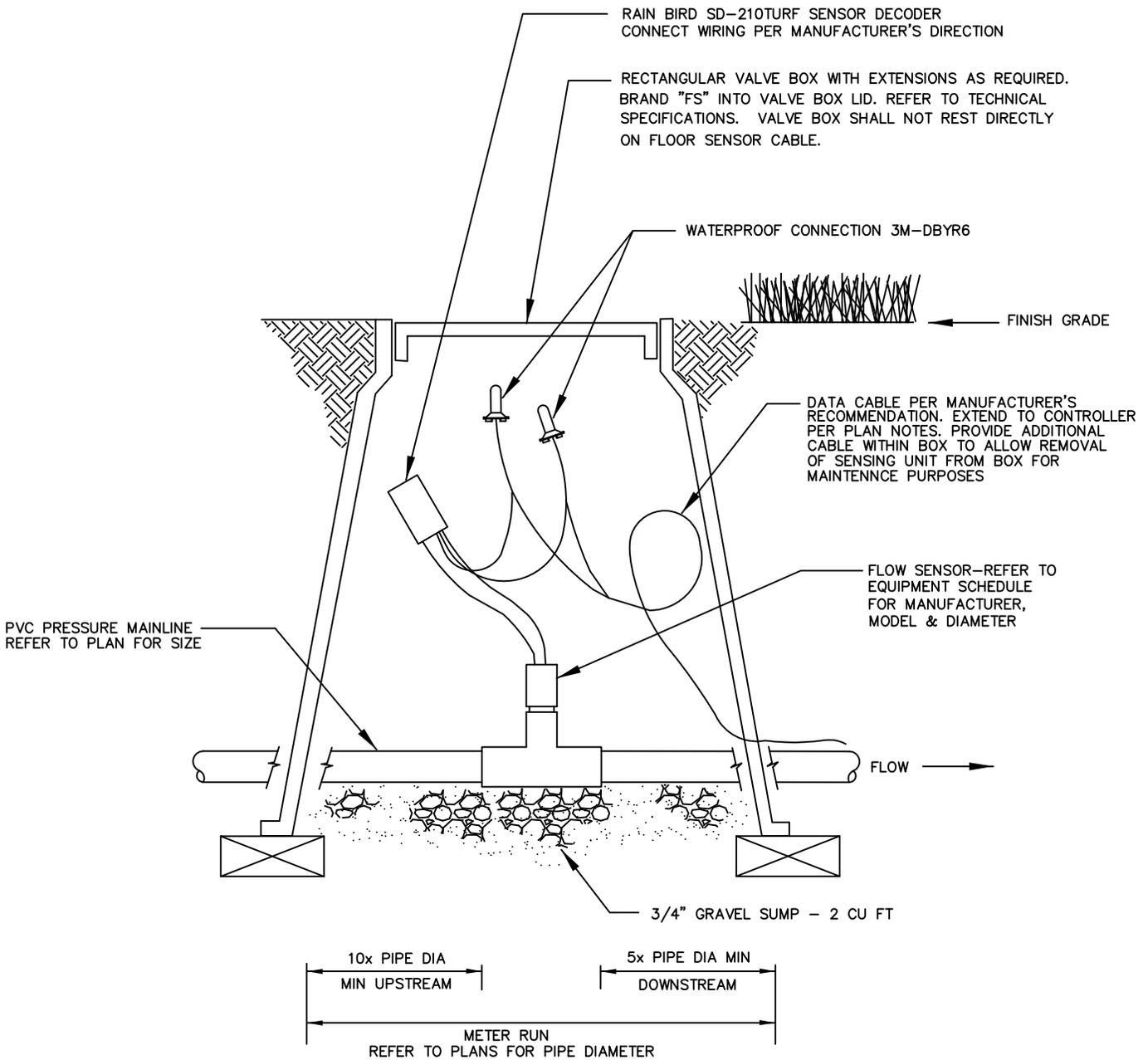




NOTES:

1. ALL NON-POTABLE IRRIGATION SYSTEMS MUST BE CLEARLY IDENTIFIED WITH STANDARD SIGNAGE
2. ONE SIGN MUST BE VISIBLE AT EACH PARK ACCESS POINT. ACCESS POINTS INCLUDE WHERE OPEN SPACE AND TRAILS ADJOIN A PARK, PARKING LOTS AND CURB CUTS FROM STREETS, OR ANY OTHER POINT THAT MAY GIVE ACCESS TO PARKS FROM PUBLIC THOROUGHFARE.
3. A MINIMUM OF TWO SIGNS MUST BE INSTALLED AT ANY LOCATION USING NON-POTABLE IRRIGATION EVEN IF ONLY ONE ACCESS POINT EXISTS.
4. CONTACT PARKS & RECREATION DIRECTOR FOR SIGN COLOR SPECIFICATIONS.





NOTES:

1. NO FITTINGS INCLUDING REDUCER BUSHINGS, TEES, ELLS, ETC SHALL BE INSTALLED WITHIN "METER RUN" SEGMENT OF PIPING
2. DIAMETER OF FLOW SENSOR TEE AND "METER RUN" PIPING SHALL BE EQUAL. NO REDUCER BUSHINGS, ADAPTER, ETC SHALL BE INSTALLED WITHIN FLOW SENSOR TEE.
3. VALVE BOX SHALL NOT REST ON TOP OF FLOW SENSOR CABLE

