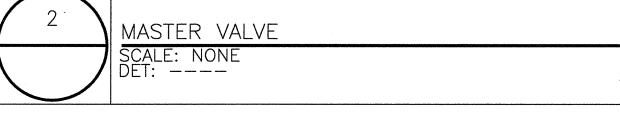
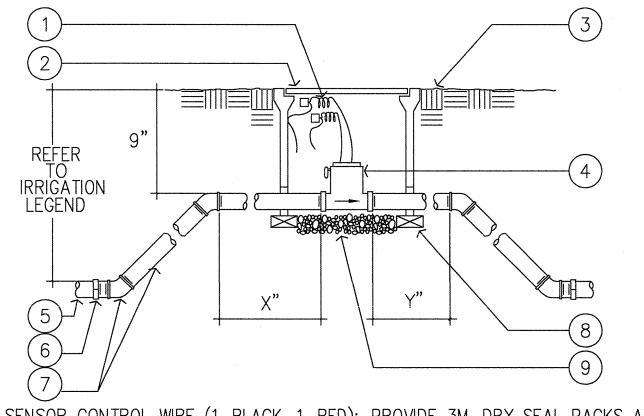
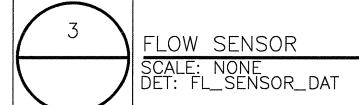


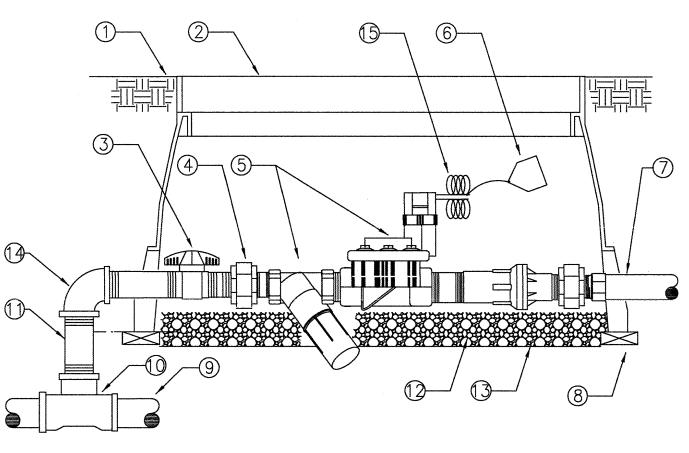
- VALVE CONTROL WIRE(1-BLUE, 1-WHITE) PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL
- 2. SCHEDULE 80 PVC THREADED UNION (2 TOTAL) 3. FINISH GRADE
- 4. SCHEDULE 80 PVC MALE ADAPTER (2 TOTAL)
- 5. PVC MAIN LINE
- REFER TO IRRIGATION LEGEND
- BRICK 1 EACH CORNER OF VALVE BOX RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX - NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL. TOP DIMENSION AS FOLLOWS:
- A. FOR 2" AND SMALLER MASTER CONTROL VALVES INSTALL A VALVE BOX WITH
- AN OUTSIDE TOP DIMENSION OF 11 3/4" X 17" X 12" DEEP. B. FOR 2 1/2" & LARGER MASTER CONTROL VALVES INSTALL A VALVE BOX
- WITH A MINIMUM OUTSIDE TOP DIMENSION OF 16" X 25 1/2" X 15" DEEP. MASTER CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED
- THREADED BRONZE BALL VALVE IN 1 1/2" AND SMALLER ASSEMBLIES. THREADED BRONZE GATE VALVE IN 2" AND LARGER ASSEMBLIES. 1 1/2" AND LARGER TO BE CONTAINED IN SEPARATE ROUND BOX — UP STREAM.
- SCHEDULE 80 PVC NIPPLES (TBE) AND 45 THREADED ELBOWS (TYPICAL FOR BOTH SIDES OF VALVE)
- 12. 3/4" DRAIN ROCK 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
- 13. SENSOR WIRE FROM CONTROLLER TO VALVE BOX IS TO BE INSTALLED IN A 1.5" SCHEDULE 80 PVC CONDUIT WITH PULL BOXES AT 200' OR LESS.





- SENSOR CONTROL WIRE (1-BLACK, 1-RED): PROVIDE 3M-DBY SEAL PACKS A ALL SPLICES AND 36" OF EXCESS U.F. WIRE IN A 1" DIAMETER COIL RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID: TOP DIMENSION
- 11 3/4" X 17" (12" DEEP) 3. FINISH GRADE
- 4. DATA INDUSTRIAL FLOW SENSOR WIRE TO CONTROLLER AS DIRECTED BY MANUFACTURER'S REPRESENTATIVE (SIZE AS SPECIFIED)
- 5. PVC MAINLINE
- UPC APPROVED SCHEDULE 80 PVC MALE ADAPTER (2 TOTAL)
- SCHEDULE 80 PVC THREADED NIPPLES AND 45° ELBOWS (AS REQUIRED ON BOTH SIDES OF SENSOR)
- BRICK 1 EACH CORNER OF VALVE BOX 9. 3/4" DRAIN ROCK - 4" DEEP BELOW SENSOR (NO SOIL IN BOX).
- 10. SENSOR WIRE FROM CONTROLLER TO VALVE BOX IS TO BE INSTALLED IN A 1.5" SCHEDULE 80 PVC CONDUIT WITH PULL BOXES AT 200' OR LESS..
- THE CONTRACTOR SHALL INSTALL FLOW SENSOR TO ALLOW STRAIGHT-FLOW OF A MINIMUM OF TEN TIMES THE DIAMETER OF MAINLINE PIPE ON THE INLET (X) SIDE AND FIVE TIMES THE DIAMETER OF MAINLINE PIPE ON THE OUTLET (Y) SIDE OF THE SENSOR. REFER TO DATA INDUSTRIAL INSTALLATION RECOMMENDATIONS.





REMOTE CONTROL VALVE WITH Y-FITLER (DRIP ZONES)

(1) FINISH GRADE

- (2) RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX- NO EXCEPTIONS INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL. TOP DIMENSION: 11 3/4" X 17" (12" DEEP)
- (3) BALL VALVE (4) SCHEDULE 80 PVC THREADED
- UNION-2 TOTAL (5) RAIN BIRD MODEL #XCZ-075 XERIGATION CONTROL ZONE

ASSEMBLY.

(6) VALVE I.D. TAG (CONTROLLER AND STATION NUMBER). 7) PVC LATERAL LINE

SCALE: NONE DET: RCV-FILTER

(8) BRICK-1 EACH CORNER 9PVC MAIN LINE

10 UPC APPROVED SCHEDULE 40 ①SCHEDULE 80 PVC NIPPLE-

- LENGTH AS REQUIRED. (2) PEA GRAVEL - 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX) 322 GAUGE 1" SQUARE WIRE MESH
- (4) SCHEDULE 80 PVC 90° ELBOW (SXT) (5) VALVE CONTROL WIRE— PROVIDE

TOP VIEW

(INCLUDED)

(INCLUDED)

(INCLUDED)

(1) LATERAL PIPE

(8) 12-INCH SWING ASSEMBLY

9) 1/2-INCH MALE NPT INLET

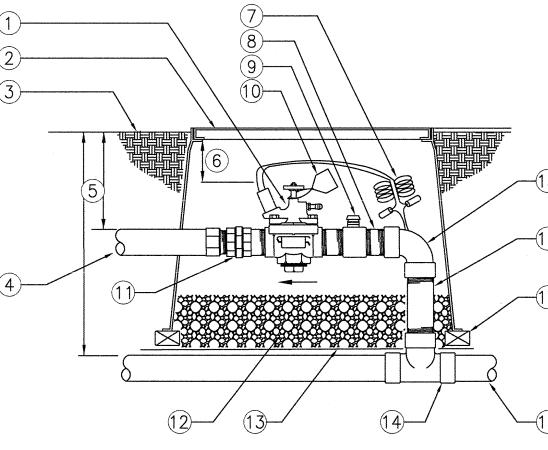
10 PVC SCH 40 TEE OR EL

12 4-INCH BASKET WEAVE

13) TREE SUPPORT STAKE

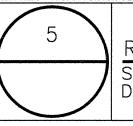
CANISTER (INCLUDED)

- 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL
 - MANIFOLD)

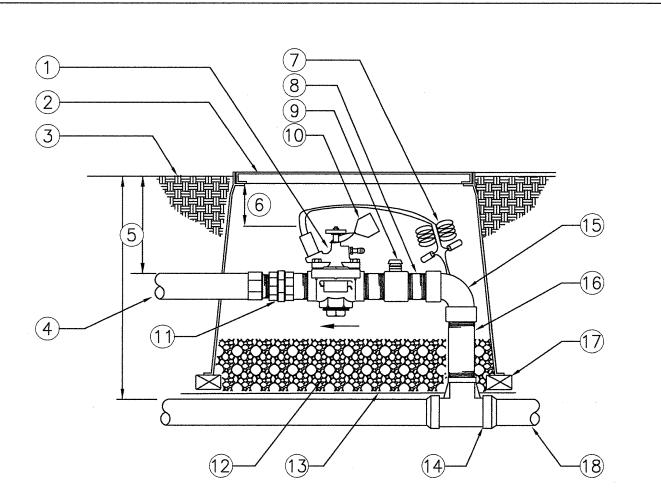


REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED AND PRESSURE REGULATOR

- P) RECTANGULAR CONCRETE VALVE BOX. ONE VALVE PER BOX- NO EXCEPTIONS.
- (3) FINISH GRADE (4) PVC LATERAL LINE
- (5) REFER TO IRRIGATION LEGEND
- (6) 3" MIN 6" MAX
- 7) VALVE CONTROL WIRE— PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL (8) SCHEDULE 80 PVC NIPPLE
- 9) KBI SCHEDULE 80 PVC BALL VALVE (ONE PER VALVE OR PER VALVE
- 10 VALVE I.D. TAG (CONTROLLER AND STATION NUMBER). 1 SCHEDULE 80 PVC THREADED
- 12 34" DRAIN ROCK- 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX) 13 22 GAUGE 1" SQUARE WIRE MESH
- (14) UPC APPROVED SCHEDULE 40 PVC TEE
- (5) SCHEDULE 80 PVC 90° ELBOW (SXT) 16 SCHEDULE 80 PVC NIPPLE-LENGTH AS REQUIRED.
- 17) BRICK-1 EACH CORNER 18 PVC MAIN LINE



REMOTE CONTROL VALVE(SOLVENT WELD) SCALE: NONE DET: RCV



SLEEVE CROSSING WITH 4" AND LARGER MAINLINE IN AREAS 17' AND WIDER

REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED AND PRESSURE REGULATOR

SCALE: NONE DET: HDPE Crossing

P) RECTANGULAR CONCRETE VALVE BOX. ONE VALVE PER BOX- NO EXCEPTIONS. (3) FINISH GRADE

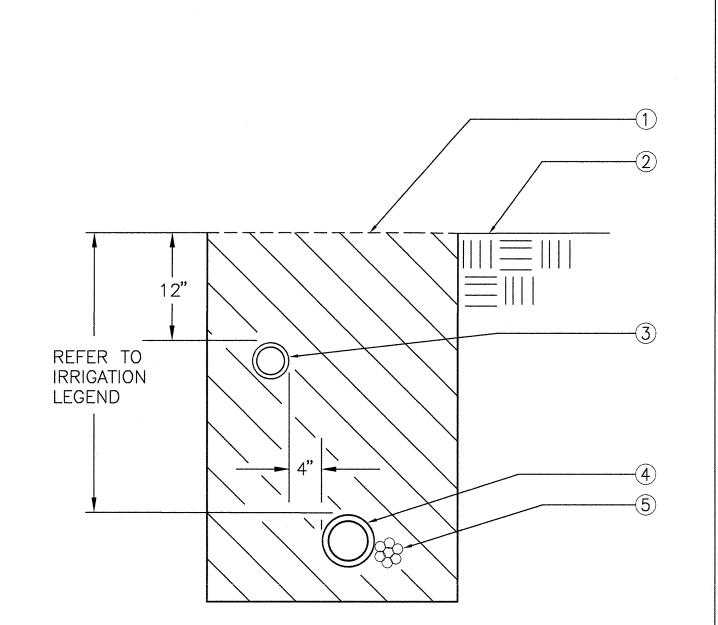
- (4) PVC LATERAL LINE
- (5) REFER TO IRRIGATION LEGEND (6) 3" MIN 6" MAX
- 7) VALVE CONTROL WIRE— PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL
- 8) SCHEDULE 80 PVC NIPPLE 9) KBI SCHEDULE 80 PVC BALL VALVE (ONE PER VALVE OR PER VALVE MANIFOLD)

SCALE: NONE DET: RCV—GASKETED

- (10) VALVE I.D. TAG (CONTROLLER AND STATION NUMBER). (1) SCHEDULE 80 PVC THREADED 12 34" DRAIN ROCK- 4" DEEP
 - BELOW VALVE (NO SOIL IN VALVE BOX) 13 22 GAUGE 1" SQUARE WIRE
 - (4) GASKETED DUCTILE IRON SERVICE TEE
 - (5) SCHEDULE 80 PVC 90° ELBOW (SXT) (6) SCHEDULE 80 PVC NIPPLE-
 - LENGTH AS REQUIRED. (17) BRICK-1 EACH CORNER
 - (8) CLASS 200 RING TITE PVC MAIN LINE

REMOTE CONTROL VALVE-GASKETED MAIN LINE(BALL VALVE)

TRENCHING

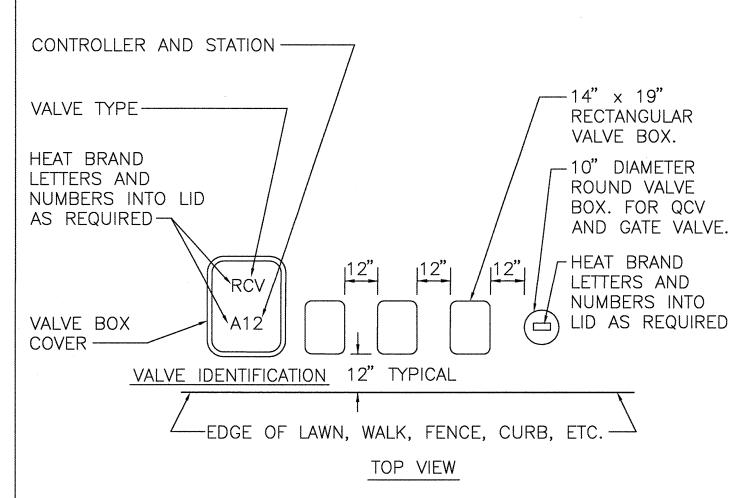


1) CLEAN BACKFILL MATERIAL

(2) FINISH GRADE (3) LATERAL LINE

(4) MAIN LINE

(5) LOW VOLTAGE CONTROL WIRE



INSTRUCTIONS:

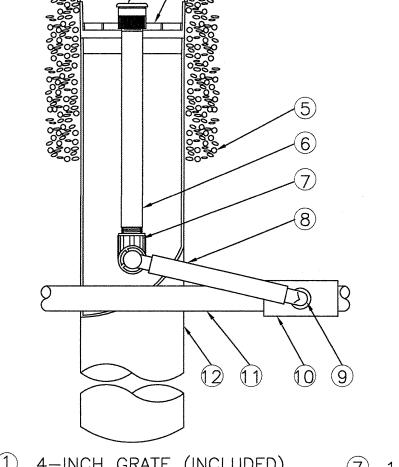
- 1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
- 2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
- WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN. 4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE

3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA

- OF LAWN, WALK, FENCE, CURB, ETC.
- 5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.

VALVE BOX INSTALLATION

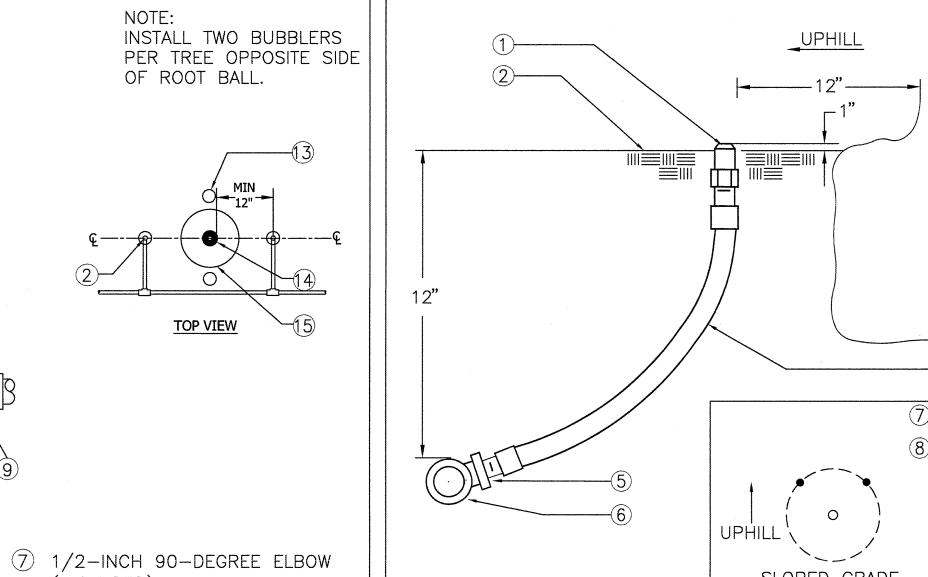
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.



4-INCH GRATE (INCLUDED) BUBBLER: RAIN BIRD 1402 0.25

- GPM (INCLUDED) ROOT WATERING SYSTEM: RAIN BIRD RWS-B-C-1402 (INCLUDES 1402 0.50 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET, AND BASKET
- CANISTER) FINISH GRADE PEA GRAVEL OR RWS SAND
- SOCK (RWS-SOCK) FOR SANDY (4) TREE TRUNK (6) 1/2-INCH PVC SCH 80 NIPPLE (5) TREE ROOTBALL

ROOT WATERING SYSTEM TREE BUBBLER SCALE: NONE Det: RWS BUBBLER



INSTALL ONE BUBBLER PER SHRUB.

(1) BUBBLER 2) FINISH GRADE

(3) SHRUB ROOTBALL (4) COBRA CONNECTOR MODEL $CC-3600 (1/2" \times 36")$

SHRUB BUBBLER SCALE: NONE DET: SBUB

Colle Site SLOPED GRADE LEVEL GRADE SHRUB BUBBLER PLACEMENT EXAMPLES (5) PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER 6 PVC LATERAL LINE (7) SHRUB

8 EDGE OF ROOTBALL (TYPICAL)

09 APRIL 2009 Checked by NOT TO SCALE

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IRRIGATION DETAILS

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