1. All cables & electrical wires must be run in conduit.

2. This detail pertains to 16" controller model only. For all other models, refer to manufacturers specifications.

3. SA assembly to include: controller model as specified, enclosure model as specified, terminal strips, template & bolts, 8' copper ground rod and ground rod clamp or 10' of #6 grounding wire.
CENTRAL CONTROLLER

DRAWN BY:  CSG  SCALE:  N.T.S.
CHECKED BY:
LAST REVISED: 8/1/14

SECTION:  IRRIGATION
DRAWING NO.:  IRR-1B

APPROVED BY:
CITY ENGINEER  DATE

PCC PAD 26" x 32" SE3-SERIES UTILITY CAB
PCC PAD
ELECT MTR OR 120 PULLBOX
PCC PAD (IF MTR)
ANT.
1. MASTER CONTROL VALVE
2. PLASTIC VALVE BOX WITH BOLT-DOWN LID
3. WIRE SPLICE CONNECTOR
4. SCH. 80 PVC UNION
5. SCH. 40 NIPPLE
6. SCH. 40 FITTING
7. BRICK SUPPORTS (4 TOTAL)
8. 2" DEEP SAND
9. LOW VOLTAGE WIRES

NOTES: PROVIDE A THREE FOOT EXPANSION COIL AT EACH WIRE CONNECTION IN VALVE BOX. TAPE & BUNDLE LOW VOLTAGE WIRES, LOOP & COIL SPARE WIRE BUNDLES.

PILOT WIRE SHALL BE YELLOW

FLOW METER SHALL BE LOCATED DOWNSTREAM OF MASTER VALVE
PLASTIC VALVE BOX (14" x 19")
WITH 6" EXTENSIONS AND LOCKING COVER

WATERPROOF CONNECTIONS
*NOTE POLARITY ON SENSOR TO SENSOR CABLE HOOKUP

MAIN LINE FROM BACKFLOW - UPSTREAM

REDUCING COUPLING AT DISTANCE EQUAL TO 10X PIPE DIAMETER FROM FLOW SENSOR (IF REQUIRED)

EX: 10 X 2" PIPE = 20"

FLOW DOWNSWEEP

ET WATERPROOF FUSE HOUSING

REDUCING COUPLING AT DISTANCE EQUAL TO 5X PIPE DIAMETER FROM FLOW SENSOR (IF REQUIRED)

6" DEEP 3/4" PEA GRAVEL SLUMP

* NOTE: FLOW SENSOR MUST BE INSTALLED WITH INSERT (TOP) POSITIONED VERTICALLY AND BODY (TEE) POSITIONED HORIZONTALLY.

CABLE IS TO BE INSTALLED IN CONDUIT.

LID TO BE MARKED "FS" PER SPECIFICATIONS.
ROUND VALVE BOX w/ BOLT DOWN LID
FINISH GRADE

MUELLER 300 BALL VALVE B-20263N
8" DIA. PVC CLASS 160 PIPE (LENGTH AS REQUIRED)
BRICKS TYP.
INSTALL DRAIN ROCK BEYOND PERIMETER OF VALVE BOX
PVC SCHEDULE 80 SLIP COUPLING (TYP)

SAND 12" MIN. DEPTH
PVC SCHEDULE 80 T.O.E. NIPPLE (LENGTH AS REQUIRED) (TYP)

MAINLINE (TYP)
FINISH GRADE VARIES - REFER TO SPECIFICATIONS

10" ROUND VALVE BOX WITH BOLT-DOWN LID

QUICK COUPLER VALVE PER IRRIGATION LEGEND

SCH. 80 PVC, RISER (LENGTH AS REQUIRED)

SCHEDULE 80 PVC 90° ELBOWS

MIN. 12" DEEP 3/4" DRAIN ROCK

BRICKS (2 MIN., TYP.)

PVC SCHEDULE 80 NIPPLE (12" MAX.)

COMPACTED BACKFILL TO 90%

IRRIGATION MAINLINE

PVC SCHEDULE 40 90° ELL (SXT) OR TEE (SSXT)
- Use 1806 SAM-PRS for turf
- Use 1812 SAM-PRS for shrub/groundcover/bedding plants
NOTES:
1. SUPPLY LINES 3 INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.

2. SEE SPECIFICATIONS FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST BLOCK.

3. CONCRETE SHALL NOT COVER FITTING JOINTS.

4. ALL OTHER THRUST BLOCKS SHALL CONFORM TO WA-3 (THRUST BLOCKS).
NOTES: 1. CENTER BOXES OVER VALVES.
2. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
3. AVOID HEAVILY COMPACTING SOIL AROUND BOXES TO PREVENT DAMAGING VALVE BOXES.