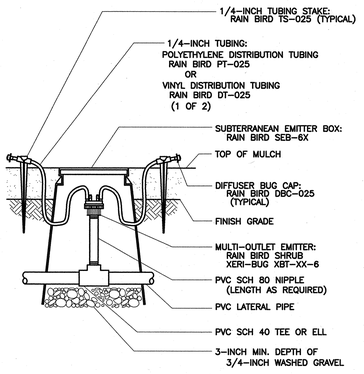
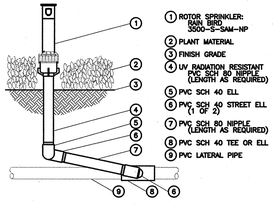
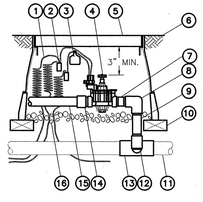
A NOT APPLICABLE
NTS



B THREADED MULTI-OUTLET EMITTER ON RISER
XBT-10-6
NTS

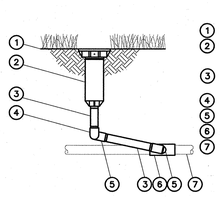


C ROTOR POP-UP SPRINKLER
3500 SHRUB
NTS



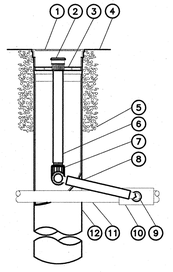
1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PGA
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

D ELECTRIC REMOTE-CONTROL VALVE
PGA SERIES
NTS



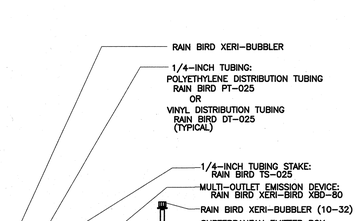
1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1802 WITH RAIN BIRD ROTARY NOZZLE
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

E POP-UP SPRAY SPRINKLER
1802 WITH SWING JOINT
NTS



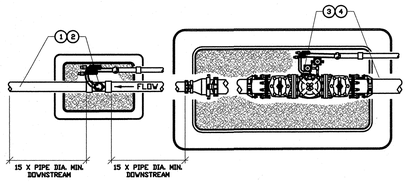
1. 4-INCH GRATE (INCLUDED)
2. BUBBLER: RAIN BIRD 1402 0.50 GPM (INCLUDED)
3. ROOT WATERING SYSTEM: RAIN BIRD RWS-BG02 (INCLUDES 1402 0.50 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET, AND BASKET CANISTER)
4. FINISH GRADE
5. OPTIONAL PEA GRAVEL OR RWS SAND SOCK (RWS-SOCK) FOR SANDY SOILS
6. 1/2-INCH PVC SCH 80 NIPPLE (INCLUDED)
7. 1/2-INCH 90-DEGREE ELBOW (INCLUDED)
8. 12-INCH SWING ASSEMBLY (INCLUDED)
9. 1/2-INCH MALE NPT INLET (INCLUDED)
10. PVC SCH 40 TEE OR EL
11. LATERAL PIPE
12. 4-INCH BASKET WEAVE CANISTER (INCLUDED)

F ROOT WATERING SYSTEM
RWS SERIES
NTS



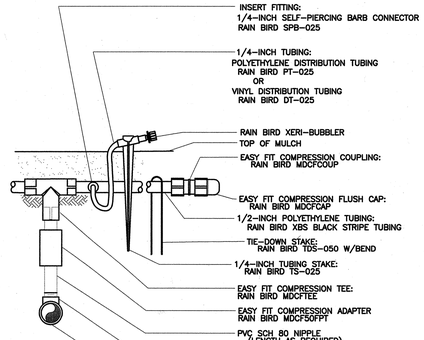
NOTE:
1. SEE "LOW-VOLUME LANDSCAPE IRRIGATION DESIGN MANUAL (D390300) FOR EMITTER PLACEMENT.
2. COIL ADDITIONAL 9-INCHES OF TUBING IN VALVE BOX TO FACILITATE MAINTENANCE.

G XERI-BIRD 8 WITH BUBBLERS IN VALVE BOX
XBD-80
NTS



1. DOWNSTREAM MAINLINE
2. FLOW/CONTROL SENSOR
3. MASTER VALVE
4. UP STREAM MAINLINE

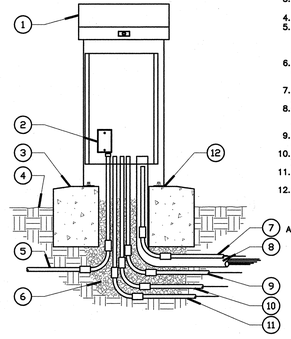
H PLAN VIEW DETAIL MASTER VALVE/FLOW SENSOR
NTS



NOTE:
USE XERIMAN TOOL XM-TOOL TO INSERT CONNECTOR DIRECTLY INTO 1/2-INCH POLYETHYLENE TUBING.

I XERI-BUBBLER FROM 1/2" POLY FROM PVC
NTS

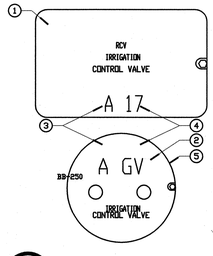
J NOT APPLICABLE
NTS



1. TOP-MOUNT CONTROLLER ASSEMBLY IN A STAINLESS STEEL ENCLOSURE.
2. ELECTRICAL JUNCTION BOX WITH A "ON-OFF" G.F.I. OUTLET SWITCH.
3. CONCRETE CONTROLLER BASE, DETAIL.
4. FINISH GRADE.
5. 120 VOLT ELECTRICAL WIRE FROM ELECTRICAL PEDESTAL. WIRE TO BE WITHIN A 3/4" CONDUIT WITH SWEEP ELBOW.
6. PEA GRAVEL. SEE CONCRETE CONTROLLER BASE DETAIL FOR MORE INFORMATION.
7. 3/4" GROUNDING WIRE CONDUIT AND SWEEP ELBOW.
8. 4" DIA. CONDUIT AND SWEEP ELBOW FOR REMOTE CONTROL VALVE WIRES.
9. 1 1/4" FLOW SENSOR WIRE CONDUIT AND SWEEP ELBOW.
10. 1" MASTER VALVE WIRE CONDUIT AND SWEEP ELBOW.
11. 1 1/4" COMMUNICATION CABLE WIRE CONDUIT AND SWEEP ELBOW.
12. EPOXY WEATHER PROOF SEALANT, BETWEEN THE CONCRETE BASE AND THE CONTROLLER ASSEMBLY.

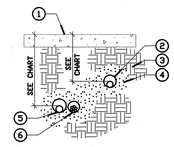
NOTE:
A. CONTRACTOR TO PROVIDE GROUND ROD WITH THE PROPER RESISTANT PER THE CONTROLLER MANUFACTURER'S RECOMMENDATIONS.

K TOP MOUNTED CONTROLLER ASSEMBLY
NTS



1. VALVE BOX WITH LOCKABLE COVER.
2. 2" BRANDING, PER THE IRRIGATION SPECIFICATIONS.
3. CONTROLLER DESIGNATION.
4. VALVE IDENTIFICATION.
5. ROUND VALVE BOX WITH LOCKABLE COVER.

L VALVE BOX HEAT BRANDING
NTS

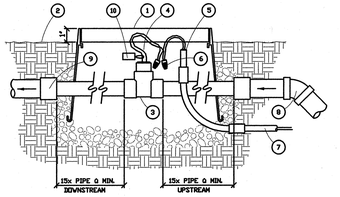


1. VEHICULAR OR PEDESTRIAN PAVING-SEE PLAN.
2. LATERAL PVC PIPE IN SCH. 40 PVC SLEEVE 2 X DIAMETER OF LATERAL SIZE.
3. 900 MIN. BACKFILL RELATIVE COMPACTION. SEE GEOTECH REPORT.
4. 6" MIN. COVER AND 6" BASE OF SAND BACKFILL.
5. MAINLINE - SEE LEGEND FOR TYPE. MAINLINE TO BE IN A SCH. 40 PVC SLEEVE 2 X DIAMETER OF MAINLINE.
6. CONTROL WIRE IN SCH. 40 PVC SLEEVE - SEE PLAN FOR SLEEVE SIZE.

NOTE:
A. ALL WIRES, LATERALS AND MAINLINE SHALL BE SLEEVED UNDER VEHICULAR, PEDESTRIAN PAVING AND HARDSCAPE AREAS.
B. CONTRACTOR SHALL COORDINATE ALL SLEEVING WITH HARDSCAPE CONTRACTORS PRIOR TO FORMING TO INSURE SLEEVES ARE SET.
C. ALL SLEEVES TO EXTEND 12" BEYOND HARDSCAPE SURFACE.

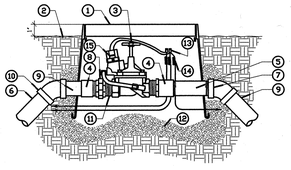
NOTE			
LINE TYPE	LOCATION	SIZE	DEPTH
PRESSURE MAINLINE	IN LANDSCAPE	< 3"	24"
		≥ 3"	24"
	UNDER VEHICULAR PAVING	< 3"	36"
		≥ 3"	36"
LATERAL LINE	IN LANDSCAPE	< 3"	18"
		≥ 3"	18"
	UNDER VEHICULAR PAVING	< 3"	30"
		≥ 3"	30"

M PIPES UNDER PAVING
NTS



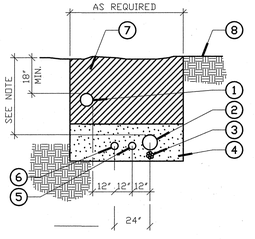
1. PLASTIC VALVE BOX - RECTANGULAR.
2. FINISH GRADE.
3. FLOW SENSOR.
4. RAIN MASTER FLOW SENSOR CABLE FROM SENSOR TO CONTROLLER.
5. CONDUIT BUSHING.
6. WATERPROOF DRY SPLICE CONNECTOR.
7. 3/4" ELECTRICAL CONDUIT AND SWEEP ELBOW.
8. IRRIGATION MAINLINE FROM MASTER VALVE.
9. MAINLINE TO THE RCV'S
10. CHRISTY'S TAG #ID-MAX-P2-RC1P2.

N FLOW SENSOR
NTS



1. PLASTIC VALVE BOX - RECTANGULAR.
2. FINISH GRADE.
3. MASTER VALVE.
4. SCH. 80 PVC MALE ADAPTER.
5. SCH. 80 4" NIPPLE.
6. PVC IRRIGATION MAINLINE FROM BACKFLOW.
7. SCH. 80 PVC 45 DEGREE THREADED ELBOW.
8. SPEARS SCH. 80 PVC UNION (SR-FIPT X SR-FIPT).
9. PVC IRRIGATION MAINLINE TO FLOW SENSOR. SEE LEGEND FOR TYPE AND LINE SIZE.
10. SCH. 80 PVC 45 DEGREE ELBOW.
11. SCH. 80 PVC CLOSED NIPPLE.
12. 4 CU. FT. PEA GRAVEL SUMP.
13. CONTROL AND MASTER VALVE WIRES WITH EXPANSION LOOP.
14. SPEARS DS-500 DRI-SPLICE WIRE CONNECTORS.
15. SEE IRRIGATION FOR TYPE OF SOLENOID TO BE INSTALLED.

O Master Valve
NTS



1. NON-PRESSURE LATERAL LINE .
2. PRESSURIZED MAINLINE.
3. CONTROL WIRES - BUNDLE AND TAPE EVERY TEN FEET. INSTALL ADJACENT TO PRESSURE MAIN LINE.
4. APPROVED TOP SOIL OR SAND BACKFILL - PROVIDE 3" UNDER PIPE AND 8" ABOVE PIPE.
5. FLOW SENSOR CABLE AND CONDUIT.
6. COMMUNICATION CABLE CONDUIT (WHERE REQUIRED).
7. SEE IRRIGATION SPECS FOR BACKFILL AND COMPACTION REQUIREMENTS.
8. FINISH GRADE.

NOTE:
A. MINIMUM BACKFILL DEPTHS FROM GRADE TO TOP OF MAINLINE 24" IN PLANTING AREAS, 36" UNDER PAVED AREAS.
B. ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES.
C. TIE LOOSE 20" LOOP IN WIRING AT CHANGE IN DIRECTION GREATER THAN 30°. TIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

P Trenching Detail Within The Landscape
NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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CALL:1-800-227-2600

PINNACLE *Civil Engineering, Inc.*
2161 Saturn Court, Bakersfield, CA 93308
Phone: (661) 869-0184 Fax: (661) 377-0076

LANDSCAPE ARCHITECT
MICHAEL HOLMES
LICENSED
LA 5185
EXP. 4/30/09
STATE OF CALIFORNIA
Professional Signature
Expiration Date
Date

DATE	REVISIONS

SITE GRADING AND IMPROVEMENT PLANS
BCSD-WAYSIDE ELEMENTARY
IRRIGATION DETAILS
BAKERSFIELD, CALIFORNIA

JOB No.:	07-320
DWG NO.:	07-320GRBM
DATE:	04/07/08
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	OF 18 SHEETS