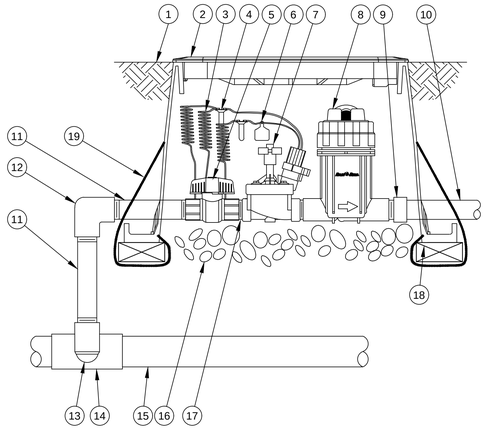
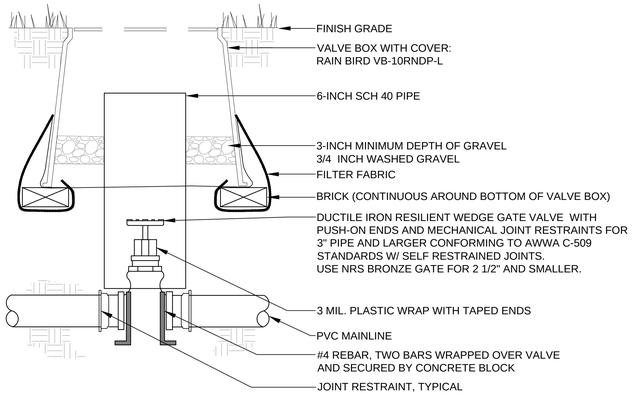


1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-STDP
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BRASS BALL VALVE
6. ID TAG
7. REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 80 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 80 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

C1 / LI501 — XCZ-PRB-100-COM 1" COMMERCIAL CONTROL ZONE KIT IN SQUARE VALVE BOX

NOT TO SCALE



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 OR PUSH-ON GASKETED ENDS. THE OPERATOR IS A WRENCH NUT.
4. ANCHOR ISOLATION VALVE TO CONCRETE BY BENDING REBAR OVER EACH END OF VALVE AND EXTENDING A MINIMUM OF 6-INCHES INTO CONCRETE SUPPORT BLOCK.
5. WRAP VALVE ENDS AND BODY IN 3 MIL. PLASTIC PRIOR TO POURING CONCRETE.
6. CONCRETE SUPPORT BLOCK IS TO BE POURED UNDER ISOLATION GATE VALVE. ONLY THE BOTTOM OF THE ISOLATION GATE VALVE TO BE IN CONTACT WITH CONCRETE.
7. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
8. BRAND VALVE BOX LID PER SPECIFICATIONS.

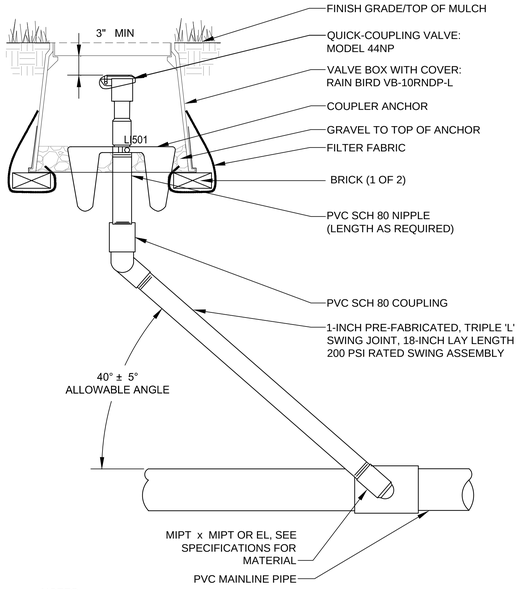
C4 / LI501 — ISOLATION VALVE

NOT TO SCALE

1. FIELD SATELLITE CONTROLLER: RAIN BIRD ESP-MC-SAT-LINK-24MC-SS
2. CONCRETE PAD: 6-INCH MINIMUM THICKNESS
3. FINISH GRADE
4. WIRES TO REMOTE CONTROL VALVES
5. 3-INCH PVC SCH 40 CONDUIT, FITTINGS AND SWEEP ELL
6. 1-INCH PVC SCH 40 CONDUIT, FITTINGS AND SWEEP ELL TO POWER SUPPLY

D4 / LI501 — FOUR PROGRAM HYBRID CONTROLLER ESP-MC STAINLESS STEEL PEDESTAL

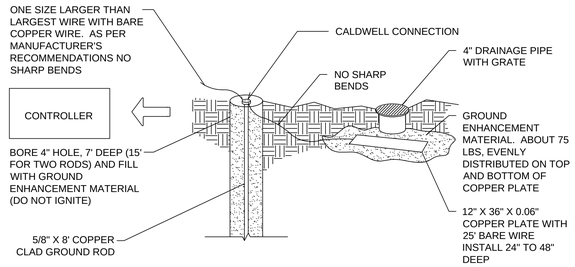
NOT TO SCALE



NOTES:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. INSTALL SWING JOINT LAY ARM BETWEEN 30° AND 45° OF LATERAL PIPE IN ORDER TO ABSORB DOWNWARD IMPACT. IF SWING JOINT CAN NOT BE INSTALLED AT SPECIFIED ANGLE, CONSULT RESIDENT ENGINEER PRIOR TO INSTALLATION OF SWING JOINT.
3. BRAND VALVE BOX LID PER SPECIFICATIONS.

F1 / LI501 — QUICK COUPLER VALVE

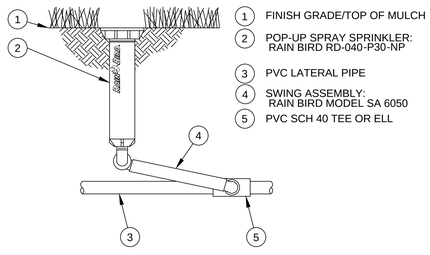
NOT TO SCALE



NOTE:
THIS INFORMATION IS PROVIDED TO FACILITATE THE PROCUREMENT OF COMPONENTS NEEDED FOR GROUNDING IRRIGATION CONTROLLERS & FIELD INTERFACE UNITS. PLEASE INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE NATIONAL ELECTRICAL CODE. GROUNDING EQUIPMENT SHALL PROVIDE 5 OHMS OR LESS OF GROUNDING PROTECTION. OWNER SHALL BE RESPONSIBLE FOR ADDITIONAL COSTS ACCRUED ABOVE THE SHOWN EQUIPMENT TO MEET GROUNDING REQUIREMENTS.

F4 / LI501 — GROUND ROD AND PLATE

NOT TO SCALE



1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD RD-040-P30-NP
3. PVC LATERAL PIPE
4. SWING ASSEMBLY: RAIN BIRD MODEL SA 6050
5. PVC SCH 40 TEE OR ELL

F7 / LI501 — POP-UP SPRAY SPRINKLER - RD SERIES

NOT TO SCALE

CONSULTANTS:

ARCHITECT/ENGINEERS:

FOURFRONT DESIGN INC.
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Drawing Title: IRRIGATION DETAILS #1

Project Title: Expand Columbarium A

Project Number: 901CM3040

Building Number:

Approved: Project Director

Location: Riverside National Cemetery, 22495 Van Buren Blvd, Riverside CA 92518

Drawing Number: LI501

Date: May 26, 2016 | Checked: EH | Drawn: EH/JH/AW

Dwg. 44 of 47

NCA DESIGN AND CONSTRUCTION SERVICE

Department of Veterans Affairs

Revisions: | Date

VA FORM 08-6231

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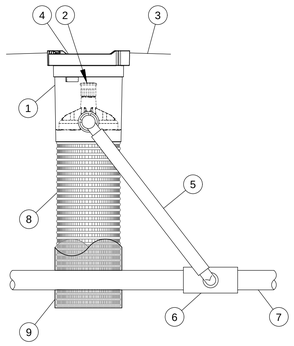
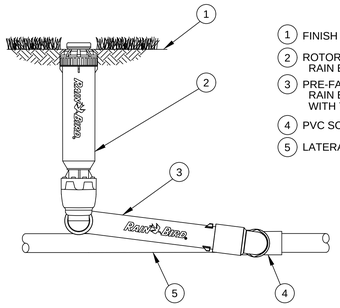


1. RAIN BIRD RWS-M-B-1402 (INCLUDES RETAINER, 18" (45,7 CM) TUBE, 0.5 GPM (1,9 L/M) BUBBLER, 4" (10,2 CM) GRATE, 1/2" (1,3 CM) M NPT INLET SPIRAL BARB ELBOW)
2. BUBBLER: RAIN BIRD 1402 0.5 GPM (1,9 L/M) (INCLUDED)
3. FINISH GRADE/TOP OF MULCH
4. 4" (10,2 CM) LOCKING GRATE (INCLUDED)
5. 1/2" (1,3 CM) SWING ASSEMBLY: RAIN BIRD SA-125050 OR 1/2" (1,3 CM) SWING PIPE: RAIN BIRD SP SERIES WITH 1/2" (1,3 CM) MALE NPT x 0.490" BARB ELBOW: RAIN BIRD SBE-050
6. PVC SCH 40 TEE OR EL
7. HDPE LATERAL PIPE: SDR RATED 200 LB DR-11 4710
8. 4" (10,2 CM) WIDE X 18" (45,7 CM) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
9. OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS

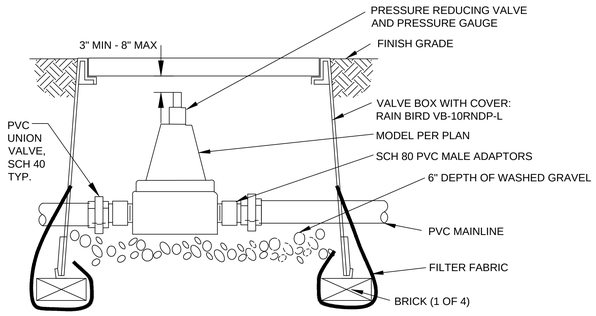
NOTES:
1. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
2. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
3. ONCE RWS-M HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

C1 / LI502 — ROOT ZONE WATERING SYSTEM
NOT TO SCALE

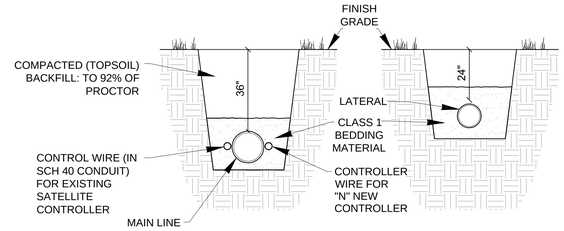


1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD 8005 SS-1" NPT WITH PURPLE COVERS
3. PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-100-PRS WITH 70 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE

A3 / LI502 — ROTOR POP-UP SPRINKLER
NOT TO SCALE



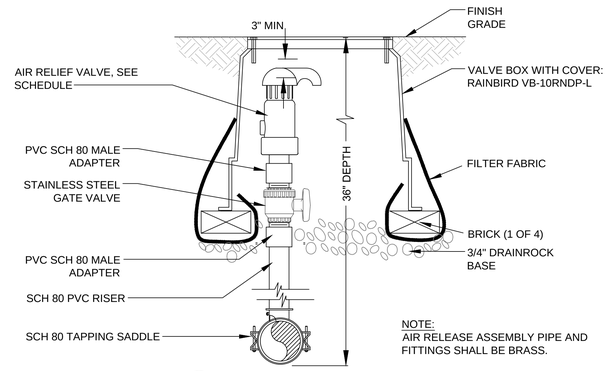
C3 / LI502 — PRESSURE REDUCING VALVE
NOT TO SCALE



NOTES:

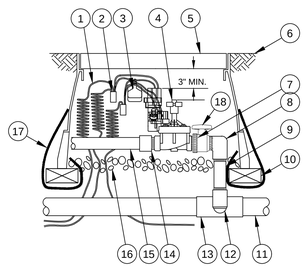
1. TAPE & BUNDLE ALL WIRING AT 10' INTERVALS. USE 6" WIDE MARKING TAPE 6" ABOVE ALL DIRECT BURIAL WIRING. ALL SPLICES SHALL BE MADE IN VALVE BOXES AND LOCATED ON AS-BUILT PLANS. (USING DBY COMPONENTS)
2. ALL 120 V. WIRING SHALL BE IN CONDUIT WITH MARKER TAPE AS ABOVE. ALL WIRING UNDER PAVEMENT & THROUGH SLEEVES SHALL BE IN SEPARATE CONDUIT.
3. TIE A LOOSE 20" LOOP IN WIRING AT ALL CHANGES IN DIRECTION GREATER THAN 30" UNTIE ALL LOOPS AFTER MAKING CONNECTIONS.

B7 / LI502 — TRENCH DETAIL
NOT TO SCALE



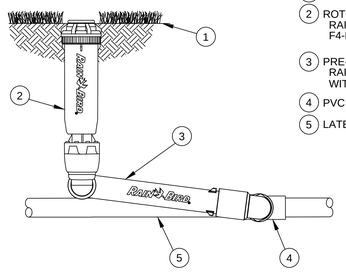
NOTE:
AIR RELEASE ASSEMBLY PIPE AND FITTINGS SHALL BE BRASS.

D7 / LI502 — AIR RELIEF VALVE KIT (MAINLINE)
NOT TO SCALE



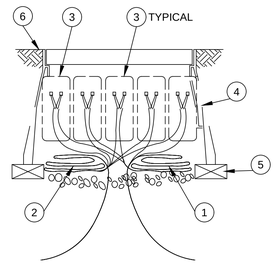
1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: PESBR-PRS-D-HAN TYPE, AS SPECIFIED
5. VALVE BOX WITH COVER: RAIN BIRD VB-STDP
6. FINISH GRADE/ TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 80 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 80 ELL
13. PVC SCH 80 TEE OR ELL
14. PVC SCH 80 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. FILTER FABRIC
18. BRASS BALL VALVE

F1 / LI502 — ELECTRONIC REMOTE CONTROL VALVE PEB SERIES
NOT TO SCALE



1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD FALCON 6504 F4-FC/PC-SS-NP
3. PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-100-PRS WITH 70 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE

F3 / LI502 — ROTOR POP-UP SPRINKLER - FALCON 6504
NOT TO SCALE



1. CONTROLLER TO SOLENOID AWG #14 WIRING (TO ZONES)
2. CONTROLLER TO SOLENOID AWG #14 WIRING (FROM CONTROLLER)
3. DBY-6 CONNECTORS (3M UAL) SPLICE ALL WIRE PAIRS IN SUPER SERVISEAL WIRE SPLICE KIT, TYPICAL
4. SPLICE BOX WITH COVER
5. BRICK (1 OF 2)
6. FINISH GRADE

F7 / LI502 — WIRE SPLICE BOX (SIMILAR)
NOT TO SCALE

CONSULTANTS:

ARCHITECT/ENGINEERS:

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Revisions:	Date

Drawing Title: IRRIGATION DETAILS #2
Approved: Project Director
Project Title: Expand Columbarium A
Location: Riverside National Cemetery, 22495 Van Buren Blvd, Riverside CA 92518
Date: May 26, 2016
Checked: EH
Drawn: EH/JH/AW
Project Number: 901CM3040
Building Number:
Drawing Number: LI502
Dwg. 45 of 47

NCA DESIGN AND CONSTRUCTION SERVICE
Department of Veterans Affairs

VA FORM 08-6231

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