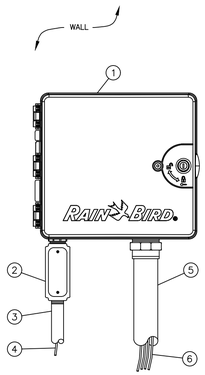
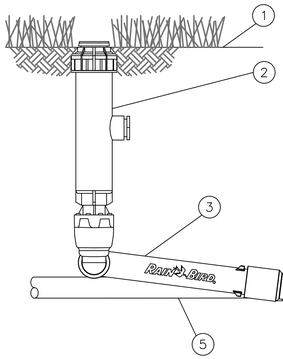


1. IRRIGATION CONTROLLER: RAIN BIRD ESP–LXME CONTROLLER IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1–INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2–INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. WIRES TO REMOTE CONTROL VALVES

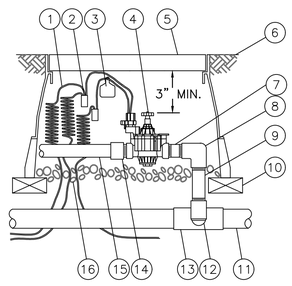
NOTES:
1. ESP–LXME CONTROLLER IS AVAILABLE IN 8– OR 12–STATION BASE MODELS. ADDITIONAL MODULES IN 4–, 8– AND 12–STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

901 RAIN BIRD ESP - LXME CONTROLLER DETAIL
Not to Scale



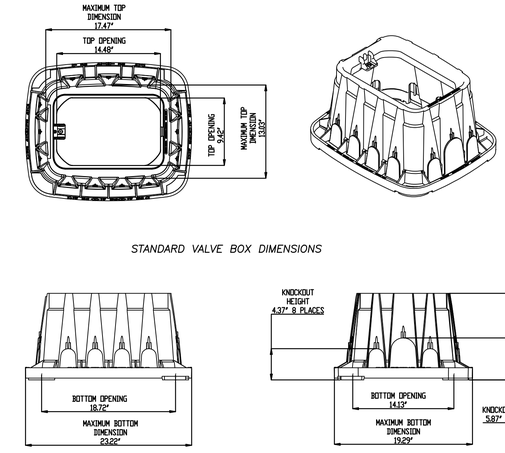
1. FINISH GRADE
2. ROTOR POP–UP SPRINKLER: RAIN BIRD 5006 5006–FC/PC–SAM
3. PRE–FABRICATED SWING JOINT: RAIN BIRD TSJ–075–PRS WITH 45 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE

901 RAIN BIRD ESP - LXME CONTROLLER DETAIL
Not to Scale

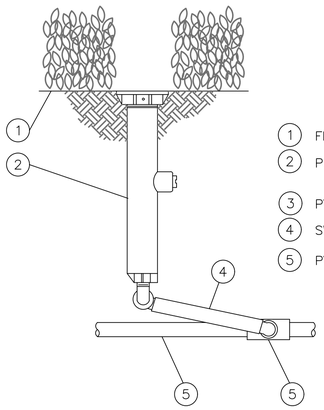


1. 30–INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION: RAIN BIRD SPLICE–1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PGA
5. VALVE BOX WITH COVER: RAIN BIRD VB–STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (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

902 RAIN BIRD REMOTE CONTROL VALVE DETAIL
Not to Scale

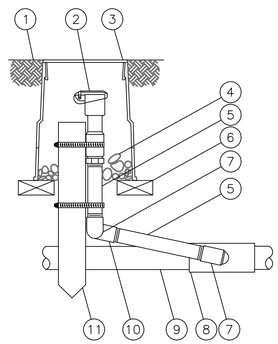


901 RAIN BIRD ESP - LXME CONTROLLER DETAIL
Not to Scale



1. FINISH GRADE
2. POP–UP SPRAY SPRINKLER: RAIN BIRD 1806 –SAM–PRS WITH 1800 VPC WITH RAIN BIRD ROTARY NOZZLE
3. PVC LATERAL PIPE
4. SWING ASSEMBLY: RAIN BIRD MODEL SA 6050
5. PVC SCH 40 TEE OR ELL

903 RAIN BIRD POP-UP SPRINKER DETAIL
Not to Scale



1. FINISH GRADE/TOP OF MULCH
2. QUICK–COUPLING VALVE: RAIN BIRD MODEL 5NP
3. VALVE BOX WITH COVER: RAIN BIRD VB–6RND
4. 3–INCH MINIMUM DEPTH OF 3/4–INCH WASHED GRAVEL
5. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
6. BRICK (1 OF 2)
7. PVC SCH 40 STREET ELL
8. PVC SCH 40 TEE OR ELL
9. PVC MAINLINE PIPE
10. PVC SCH 40 ELL
11. 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

NOTE:

FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

901 RAIN BIRD ESP - LXME CONTROLLER DETAIL
Not to Scale

IRRIGATION NOTES

1. The system design assumes a minimum available static pressure for the irrigation system of 75 psi at the 1 inch meter. Contractor to verify pressure and flow on site prior to construction and report and discrepancies between these assumptions and actual field conditions in writing to the owner's representative.
2. Read thoroughly and become familiar with the specifications and instillation details for this and related work prior to construction.
3. Coordinate location and marking of underground utilities prior to construction. Notify the owner's representative of any conflict with any underground utility.
4. Do not proceed with the instillation of the irrigation system when it is obvious in the field that obstructions or grade differences existing that might not have been considered in the engineering, or if discrepancies in construction details, legend, notes, or specifications are discovered. Bring all such obstructions or discrepancies to the attention of the owner's representative in writing prior to construction.
5. These drawings are diagrammatic. therefore, the following should be noted:
   A. Avoid conflicts between the irrigation system, planting materials and architectural features. Instill irrigation pipe and wiring in landscaped areas whenever possible.
   B. Use only standard tees and elbow fittings. use of cross type fittings is not permitted.
   C. Irrigation pipe and valves may be shown outside of the planting area, in the hardscape, or outside of property lines for graphic clarity only. Install all irrigation components within landscapes areas or through sleeving and within the property boundary.
6. Provide the following components to the owner's representative prior to the completion of the project.
   A. Two operating keys for each type of manually operated valves.
   B. Two of each servicing wrench or tool needed for complete access, adjustment, and repair of all sprinklers and emitters.
7. Select nozzles for spray and rotary sprinklers with arcs that provide complete and uniform coverage with minimum overspray for the site conditions. To minimize overspray, install pressure compensating nozzles or pressure compensating screens if uniform lateral pressure cannot be attained with pressure adjustment at the remote control valve. Carefully adjust the radius of the throw and arc of coverage of each spray and rotary sprinkler to provide the best performance.
8. The irrigation contractor is responsible for coordinating with the general contractor for the instillation of irrigation sleeving. All sleeving will be schedule 40 PVC. All pipe and wire will be installed in separate sleeves at all paved surfaces, sidewalks, driveways, walls, footings, and hardscape areas. All sleeves may not be shown and/or sized in the plans. The general contractor is responsible for coordinating with the irrigation contractor for the instillation of all required sleeving, proper sizing, and coordinating instillation of sleeving with other trades. Any pipe or wire which passes beneath existing hardscape where sleeving was not installed, requires horizontal boring by the irrigation contractor. Sleeve and conduit sizes shall be a minimum of twice the aggregate diameter of all pipe and wire contained within sleeve or conduit pipe. Minimum sleeve size is 2-inch. Indicate all sleeve locations on "as-built" record drawings.
9. Coordinate and install all electrical power to the irrigation control system in accordance with the national electric code and all applicable local electric utility codes.
10. Gate valves shall be ported to provide for full flow. Labeled and nominal size of valve opening shall be the same.
11. All materials and workmanship shall be true to type, form, finish and of the highest standards of the trade. Damaged or inferior materials shall be removed from the site without delay.
12. Install pressure regulating module for all drip valve assemblies, set discharge pressure to 35 psi.
13. Install irrigation pipe and components a minimum of 8 feet from tree root balls. Pipe routings shown on drawings are diagrammatic.
14. Provide #12-1 AWG bare copper tracing wire along the entire mainline routing. Provide 24 inch coil of tracing wire in each valve box along mainline routing.
15. Contractor shall furnish and install material and equipment pertaining to the irrigation system herein specified or shown on the drawings. This shall include all items necessary to complete installation.
16. Irrigation contractor to cap all flush ends hand tight prior to backfill.
17. Irrigation contractor shall coordinate work with planting plans to avoid conflicting locations between piping and plant pits.
18. All materials shall be installed as detailed in the plans. If the contract drawings and/or specifications do not thoroughly describe the method or techniques to be used, then the contractor shall install as per manufacturers specifications. If a contradiction occurs, notify the landscape architect immediately.
19. Irrigation contractor to use Teflon tape on all threaded joints.
20. No pipes shall be installed parallel and directly over another line.
21. Brand each valve box with 1" lettering showing zone number and controller letter. This stamp is to match the zone and controller associates with the valve's operation.
22. Contractor shall perform the following:
   A. Visit site and verify existing grades, construction and conditions.
   B. Notify landscape architect of discrepancies between plan and field conditions.
   C. Restore contractor damaged existing work to the satisfaction of the engineer or landscape architect without cost to the owner.
   D. Be satisfied that the plan can be constructed, functional and complete.
23. All equipment shall be maintained while under construction. Maintenance includes: water scheduling, replacement of defective or damaged equipment, adjustment and re-adjustment of heads and other equipment.
24. Contractor to ensure the following:
   A. Lines and valves are to be placed within planting beds and project limits. These plans are schematic. contractor shall size all pipe.
   B. 100% coverage of irrigation system to all plants regardless of size or type and shall confirm all non-irrigated areas prior to submitting a bid.
25. Install two (2) spare #14-1 AWG control wires for each unused station and one spare #12-1 AWG common wire from the respective controller to this location for use as a spare wires in each remote control valve box along the entire wire routing for this controller. Seal wire ends water tight and contain within valve box at this location.
26. Should field adjustments be made to the site plan, irrigation contractor shall make all necessary adjustments to the irrigation system to ensure proper functionality. Landscape architect is to be notified of any and all changes made to the irrigation system, prior to instillation of said changes.

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ISSUE DATE:

1st	PERMIT/BID SET	01-13-20

DRAWN BY: NAB

PANDA PROJECT #: S8-20-D6790
ARCH PROJECT #: 18044.035

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PE 84751
01/24/2020
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IRRIGATION DETAILS 1

L3.0

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Jan 24, 2020 – 11:28am Plotted By: kurt.yoder V:\026800–Panda Express – Master 2018\026800.05–Canal Winchester, OH\04–DWG\Eng\Sheet\026800.05–SHTS–LNSC–01LS.dwg Layout: IRRIGATION DETAILS 1