

IRRIGATION NOTES:

1. Irrigation system design requirements: 20 GPM minimum @ 40 PSI minimum at the point of connection. The Irrigation Contractor shall verify the available GPM and PSI prior to installation of the system. Point of connection shall be a 2" Well.
2. Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example : obstructions, grade differences, water levels, dimensional differences, etc. Refer to the Landscape Plan to avoid conflicts with proposed trees or shrubs.
3. Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings or pavement, outside of property lines, in lakes or ditches, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, "green" areas.

4. Contractor shall verify all underground utilities prior to commencement of work. The contractor is advised that city underground utilities are present in the work area. Contractor shall secure locates from utilities prior to any excavation. use permits.
5. Contractor shall install pop-up sprinklers 6" from edge of sidewalk, 12" from walls and edge of road or parking area. Install shrub risers 18" from sidewalk, walls and edge of road or parking area.

6. Irrigation system design is diagrammatic to improve clarity. All mainline piping, electric valves and wiring are to be installed in landscape areas and within Right of Way boundaries.
7. If required, the Irrigation Contractor shall provide the necessary "Right of Way"

8. Install bubblers on all large trees and palms.
9. Size all pipe to insure flow velocity is under 5 feet per second.
10. Pipe sizes shall conform to those on the drawings. Substituting with smaller pipe sizes will not be permitted.
11. Mainline shall be installed with a minimum of 24" depth of cover. Lateral lines shall be installed with a minimum of 12" depth of cover.

12. Wherever practical, install valves in mulched beds and/or out of high traffic areas. All valves and wire splices shall be installed in heavy duty plastic valves boxes with covers that read irrigation and be sized as follows:

Remote Control Valves: standard 12" deep rectangle valve box  
Drip Zone Control Kits: jumbo 15" deep rectangle valve box  
Isolation Gate Valves: standard 12" deep rectangle valve box  
Wire Splices: standard 12" deep rectangle valve box

13. Refer to Valve Designation Symbols for valve size, station number and designed flow rate for each remote control valve.

14. All 24 volt control cable to be UL Listed, single strand, type UF 600 Volt control cable. Size and color as follows:

Common Wires - size AWG #14 and WHITE in color.  
Hot Wires - size AWG #14 and RED in color.  
Spare Wires - size AWG #14 and BLUE in color.

15. All splices to the 24 volt control wiring shall be made with DBY or equal type connectors.
21. The final location of all components shall be approved by the project engineer and/or owner.
16. Run one (2) spare wires from controller in each direction of the mainline to furthest valves.

17. All pop-up sprinkler heads shall be installed level and flush to grade.
18. Provide and install rain sensor where it will be exposed to unobstructed sun/rainfall and connect to irrigation controller.

19. All sleeves shall be 2 nominal pipe sizes larger than the size of the pipe to be accommodated. All pipe crossings over 5 feet in length shall be installed inside PVC pipe sleeving.

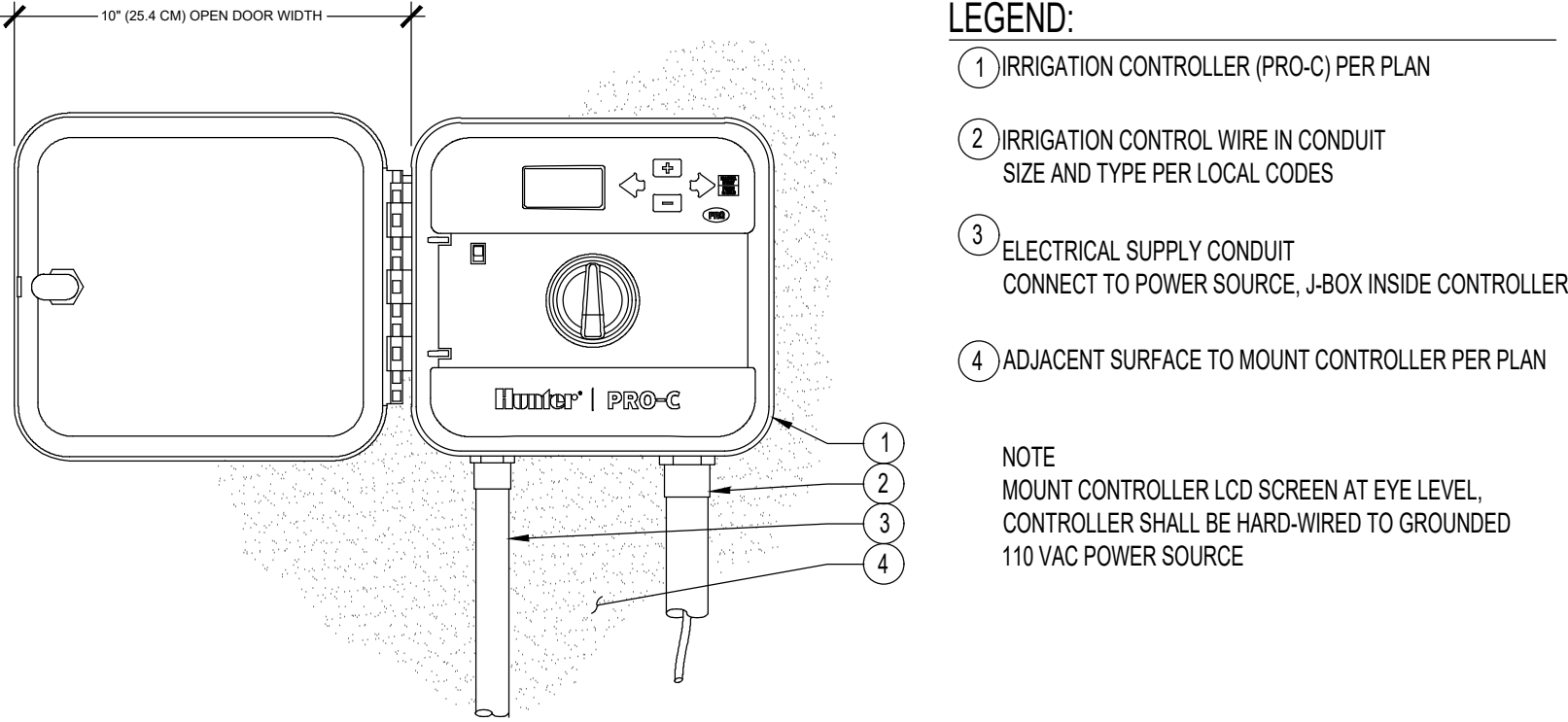
20. Any other equipment required that is not other wise detailed or specified shall be installed as per manufacturer's recommendations and specifications.

WELL NOTES

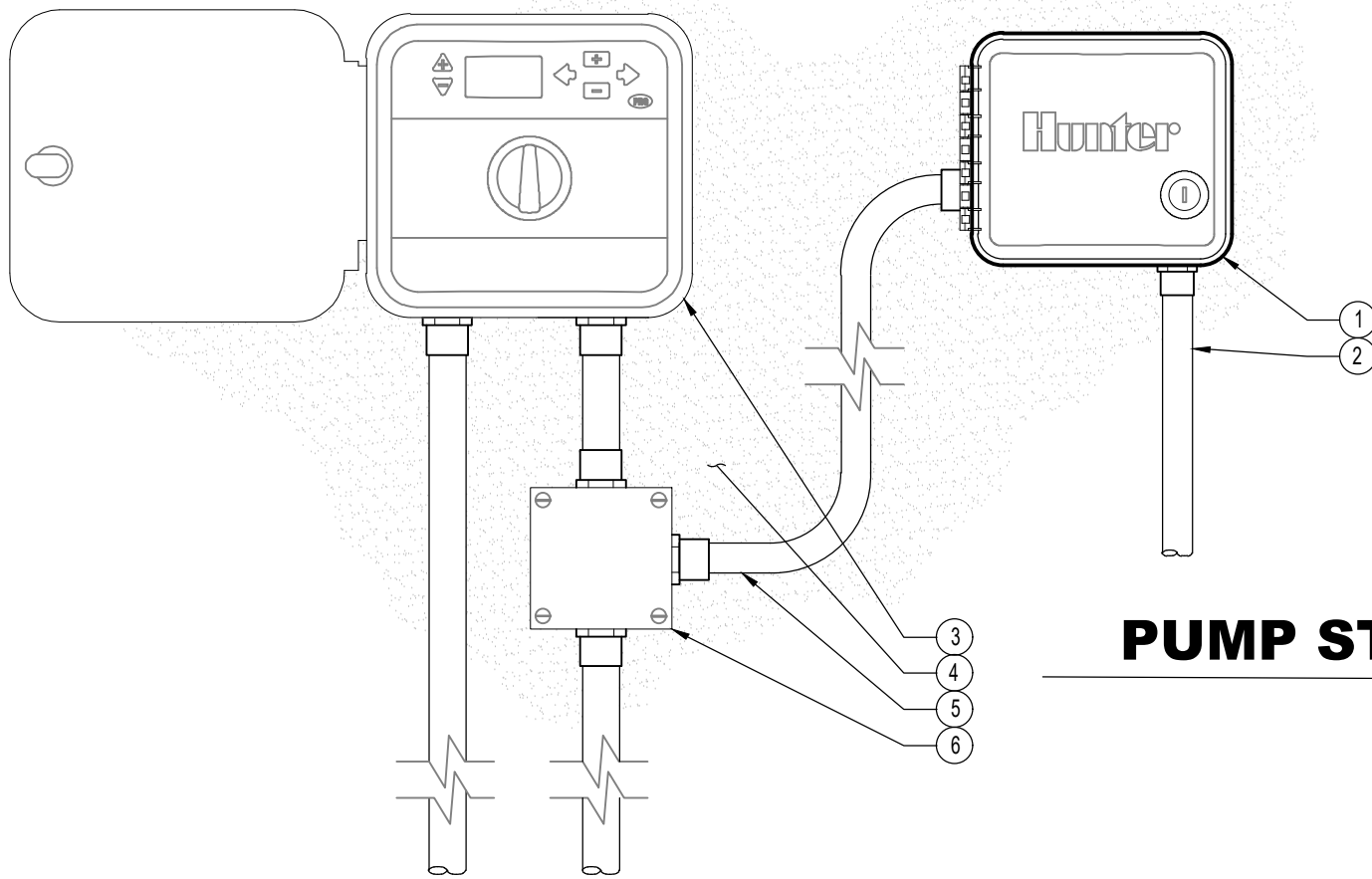
1. CONTRACTOR TO PROVIDE NEW WELL UP TO 100' DEEP, WITH DIAMETER AS SPECIFIED. PROVIDE A LINE ITEM "PER FOOT" COST FOR EACH ADDITIONAL FOOT OF DEPTH, IF NEEDED. CONTRACTOR SHALL NOT DRILL THE WELL DEEPER THAN 100' WITHOUT RECEIVING PRIOR WRITTEN AUTHORIZATION. IF PRIOR AUTHORIZATION IS NOT OBTAINED, IN WRITING, NO ADDITIONAL MONIES WILL BE PAID.
2. AFTER THE WELL IS DRILLED, A STEP TEST MUST BE PERFORMED ON THE WELL TO VERIFY THE WELL CAN PRODUCE THE REQUIRED VOLUME OF WATER ON A CONTINUAL BASIS. THE STEP TEST MUST LAST 8 HOURS WITH WATER LEVEL MEASURED EACH HALF HOUR. PEAK DEMAND IS THE GPM IDENTIFIED IN THE POC NOTE ON THE NOTES SHEET:  
HOURS 1-2 - PUMP AT 50% OF PEAK DEMAND  
HOURS 3-4 - PUMP AT 75% OF PEAK DEMAND  
HOURS 5-6 - PUMP AT 100% PEAK DEMAND  
HOURS 7-8 - PUMP AT 125% OF PEAK DEMAND  
THE RESULTS OF THIS TEST MUST BE APPROVED BY THE OWNER/OWNERS REPRESENTATIVE PRIOR TO THE INSTALLATION OF THE PUMP OR IRRIGATION SYSTEM COMPONENTS. IF THE CONTRACTOR DOES NOT FOLLOW THESE REQUIREMENTS AND THE WELL PROVES TO BE INSUFFICIENT, THE CONTRACTOR BEARS 100% OF THE RESPONSIBILITY AND COSTS TO CORRECT/MODIFY THE SYSTEM TO ACCOMMODATE THE EVENTUAL WATER SOURCE.
3. AFTER DRILLING THE WELL, CHECK THE WATER QUALITY TO ENSURE IT IS SUITABLE FOR LANDSCAPE PLANTINGS. USE THE SERVICES OF A REPUTABLE, LICENSED LABORATORY ONLY. WATER QUALITY TESTING MUST INCLUDE: pH, CONDUCTIVITY, SODIUM, POTASSIUM, CALCIUM, MAGNESIUM, CARBONATE, BICARBONATE, CHLORIDE, PHOSPHORUS, NITRATE, NDS, SULFATE, SO4, BORON, IRON, TOTAL DISSOLVED SOLIDS, SODIUM ABSORPTION RATIO, AND HARDNESS. IF THE WATER IS DETERMINED SUITABLE CONTINUE IRRIGATION INSTALLATION. IF THE WATER QUALITY IS UNSUITABLE, DO NOT PROCEED WITHOUT WRITTEN DIRECTION FROM THE OWNER/OWNER'S REPRESENTATIVE.
4. IF A HIGH IRON CONTENT (OR OTHER STAIN PRODUCING COMPOUND) IS DETECTED, ADVISE THE OWNER/OWNER'S REPRESENTATIVE. DO NOT PROCEED WITHOUT WRITTEN PERMISSION. IF A CHEMICAL INJECTION SYSTEM IS REQUIRED BY THE OWNER, IT MUST BE DIRECTED BY THE OWNER AND INSTALLED BY THE PUMP SYSTEM MANUFACTURER.
5. THE WELL CASING SHALL BE GALVANIZED STEEL PIPE (SIZED PER PLAN).

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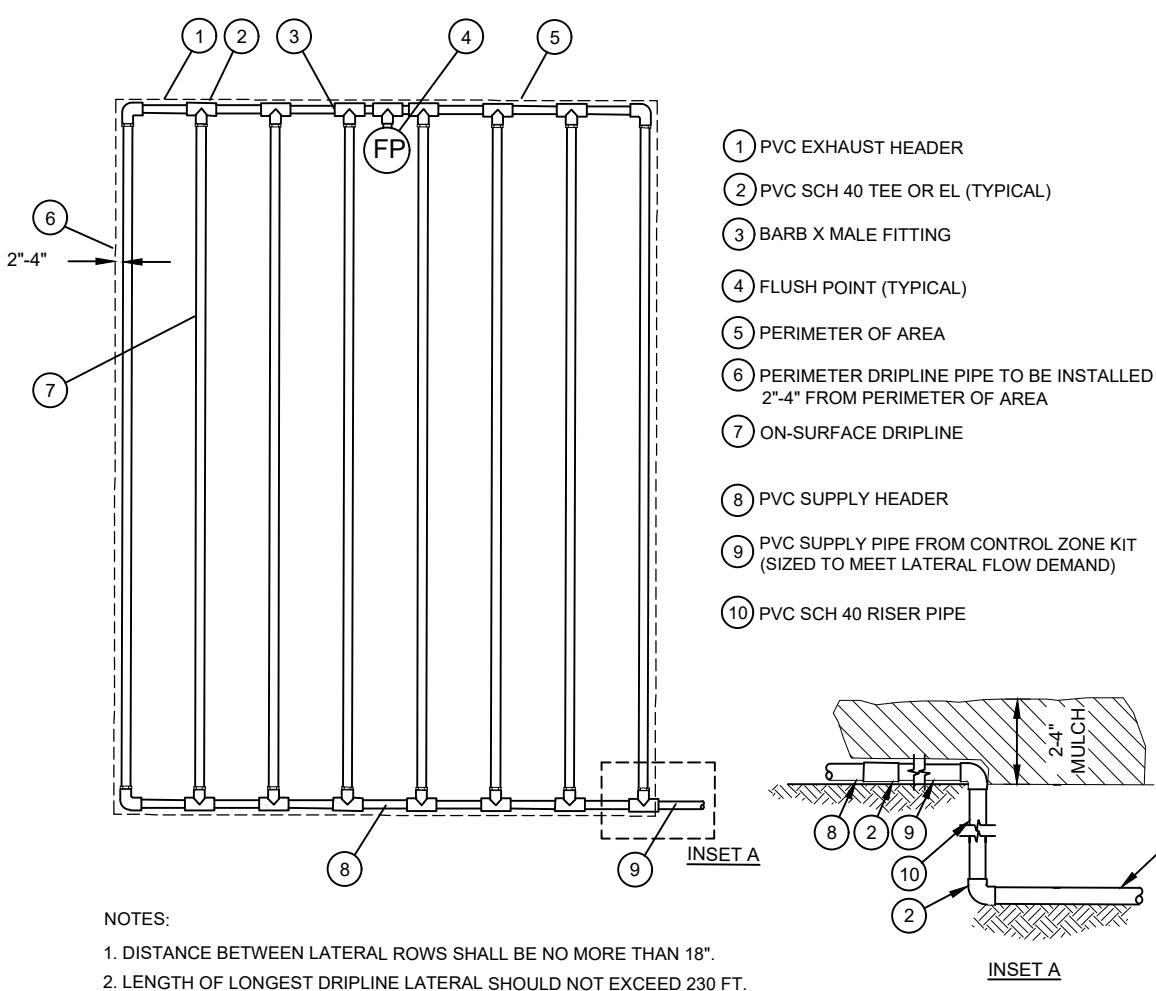
Know what's below.  
Call before you dig.



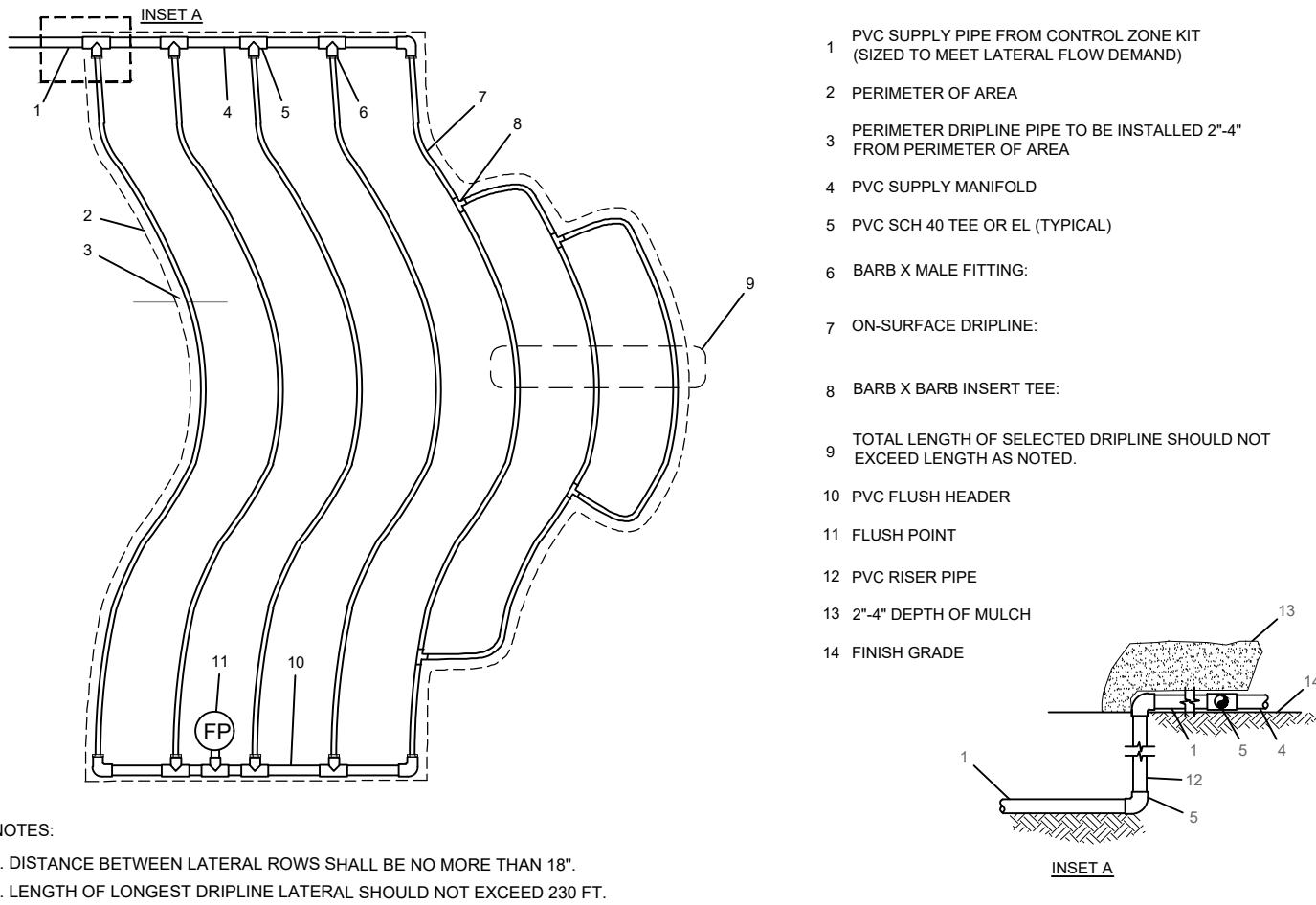
CONTROLLER DETAIL



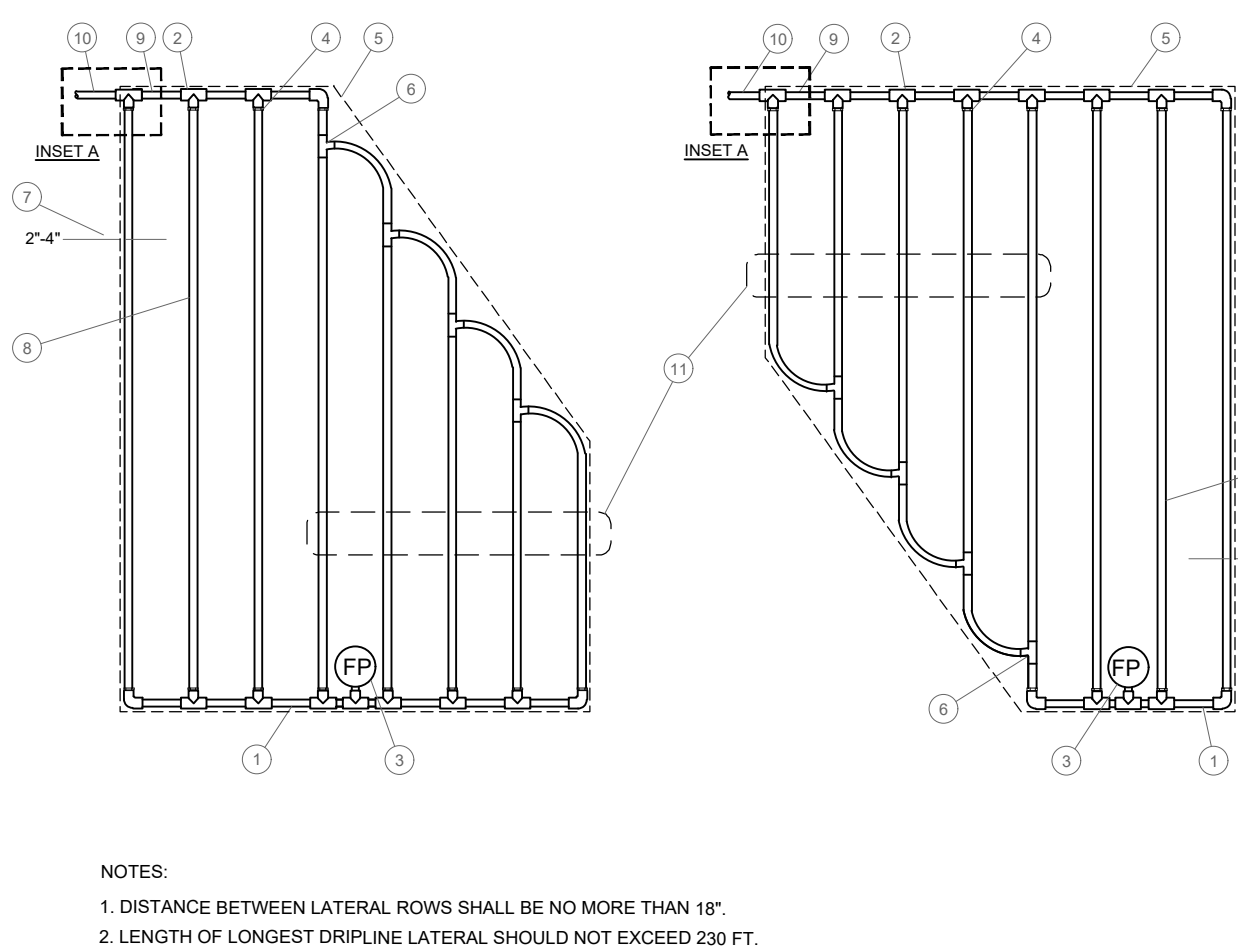
PUMP START RELAY DETAIL



ON-SURFACE DRIPLINE/END FEED LAYOUT



ON-SURFACE DRIPLINE / TYPICAL ODD CURVES LAYOUT

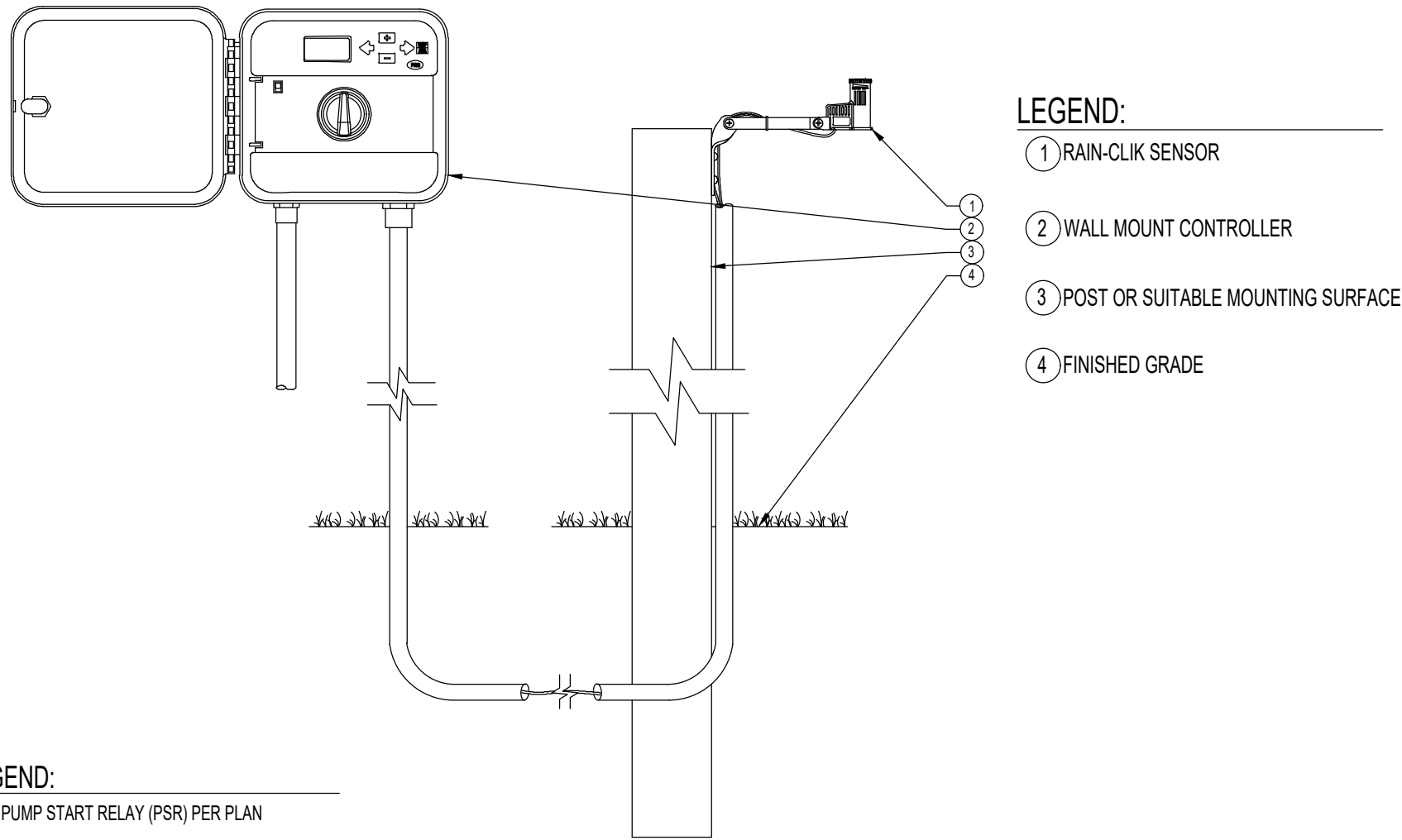


ON-SURFACE DRIPLINE / TYPICAL IRREGULAR SHAPED LAYOUT

DRIP DETAILS

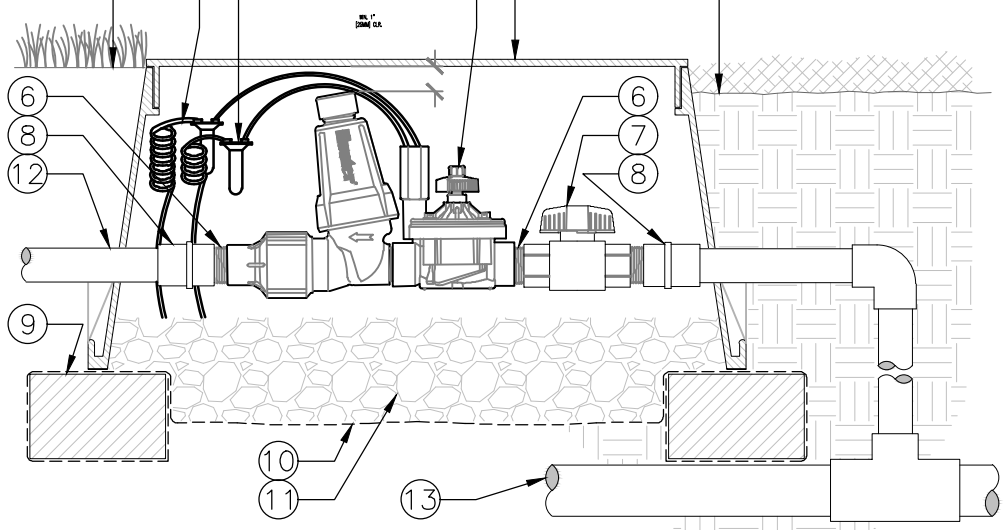
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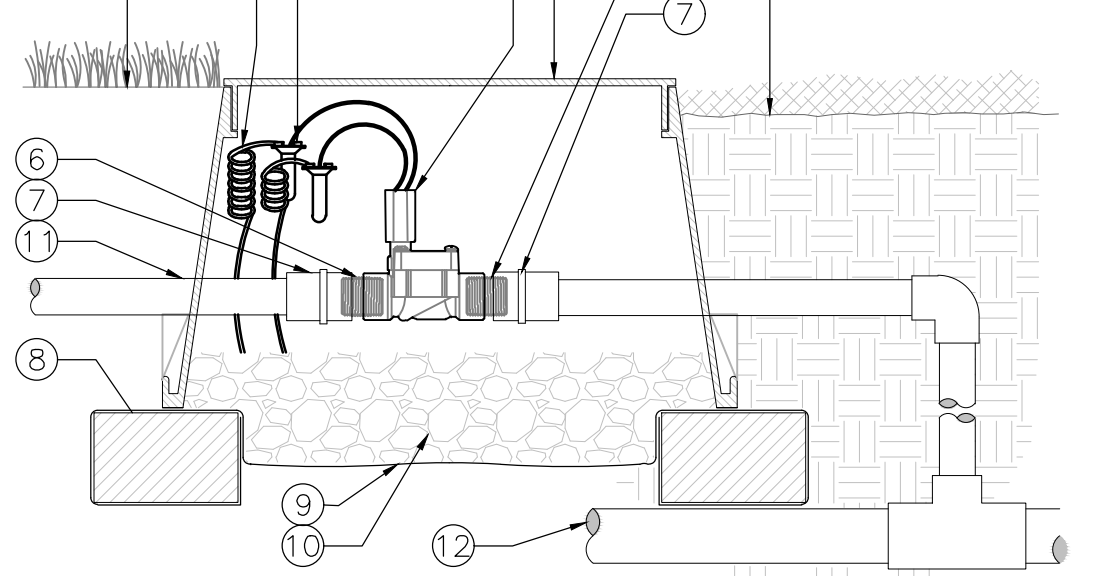
RAIN SENSOR DETAIL

- LEGEND
- 1 HUNTER REMOTE CONTROL VALVE (IC2) WITH FILTER REGULATOR  
2 IRRIGATION VALVE BOX: HEAT STAMP LID WITH "RCV" IN 2" LETTERS  
3 WATERPROOF CONNECTORS (2)  
4 18"-24" COILED WIRE TO CONTROLLER  
5 FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)  
6 SCH. 80 CLOSE NIPPLE, MATCH SIZE TO  
7 VALVE  
8 ISOLATION VALVE, SIZE AND TYPE PER PLAN  
9 PVC SLIP X MPT ADAPTOR  
10 BRICK SUPPORTS (4)  
11 FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS  
12 3/4" WASHED GRAVEL - 4" MIN. DEPTH  
13 IRRIGATION LATERAL MAINLINE LATERAL AND FITTINGS



DRIP VALVE DETAIL

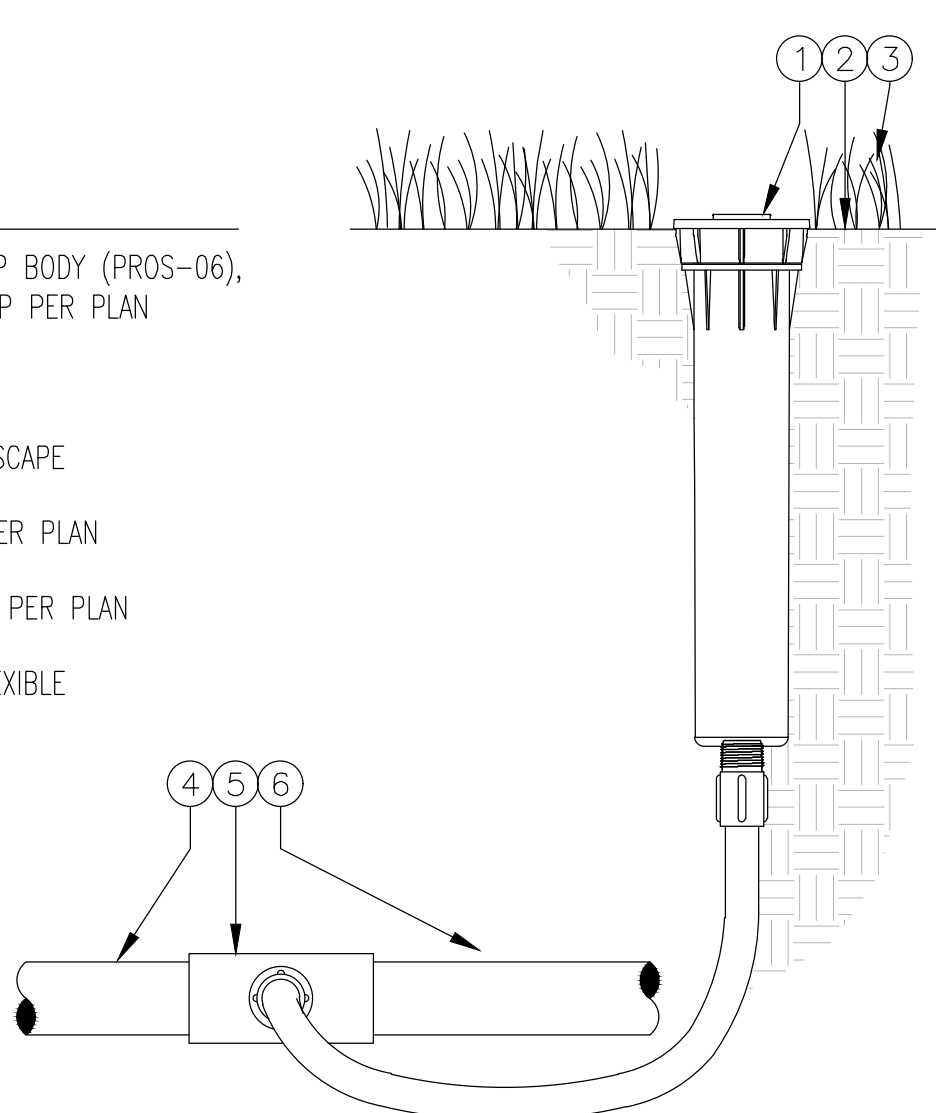
- LEGEND
- 1 HUNTER REMOTE CONTROL VALVE (PGV)  
2 IRRIGATION VALVE BOX: HEAT STAMP LID WITH "RCV" IN 2" LETTERS  
3 WATERPROOF CONNECTORS (2)  
4 18"-24" COILED WIRE TO CONTROLLER  
5 FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)  
6 SCH. 80 CLOSE NIPPLE, MATCH SIZE TO VALVE  
7 PVC SLIP X FPT ADAPTOR  
8 BRICK SUPPORTS (4)  
9 FILTER FABRIC - WRAP TWICE AROUND BRICK SUPPORTS  
10 3/4" WASHED GRAVEL - 4" MIN. DEPTH  
11 IRRIGATION LATERAL  
12 MAINLINE AND FITTINGS



VALVE DETAIL

LEGEND

- 1 HUNTER POP-UP BODY (PROS-06), NOZZLE AND CAP PER PLAN  
2 FINISHED GRADE  
3 ADJACENT LANDSCAPE  
4 LATERAL PIPE PER PLAN  
5 LATERAL FITTING PER PLAN  
6 FIELD-BUILT FLEXIBLE SWING ARM



PROS-6 DETAIL

Project Team

Landscape Architect:

las

LANDSCAPE ARCHITECTURAL SERVICES, LLC  
Brandon White | Owner  
772-834-1357 | brandon@las-fl.com  
Paul Goulas | Owner  
772-631-8400 | paul@las-fl.com  
1708 SE Joy Haven Street  
Port St. Lucie, FL 34983  
Architect / Applicant:

LLR Architects, Inc.  
ARCHITECTURE & PLANNING  
12980 S.W. 52 STREET  
MIRAMAR, FLORIDA 33027  
(OFF.) - 305-403-7926  
(CELL) - 786-543-0851  
E-MAIL: LLAROS@LLAROSAARCHITECTS.COM

Proposed Warehouse

SW 3rd Street, Pompano Beach, FL 33069

Irrigation Details & Specifications

Revisions			
Date	Init.	Description	
02.20.25	PG	Submittal	

REGISTERED LANDSCAPE ARCHITECT  
PAUL A. GOULAS  
LA 6668807  
★  
STATE OF FLORIDA  
PAUL GOULAS, RLA  
FLORIDA REG. # LA6668807

Drawn By: DC

Checked By: PG

Municipal Project:

Scale:

IRR-02