James Pole, TX LI 658
James Pole Irrigation Consultants

AGENDA

- What is it?
- Why is it important?
- When?
- Who should attend?
- How?
- Following up
- Most common issues
- Lessons learned

What is it?

- a complete structured examination of the complete irrigation system

- to check for compliance with plans and specifications

What is it?

- a complete structured examination of the complete irrigation system

- to check for compliance with plans and specifications

Why is it important?

Most commercial sprinkler systems are never properly inspected.

And most contractors know it!

Why is it important?

holds installers accountable

ensures the correct materials are properly installed

ensures the system works as intended

ensures owners receive what they paid for

When?

Only when the irrigation contractor says the system is ready

NOT when the general contractor says it is ready

PRE-WALKTHROUGH IRRIGATION CHECKLIST

BEFORE SCHEDULING A SITE WALKTHROUGH, ENSURE THE FOLLOWING ARE COMPLETE:

- ☐ The controller and weather sensor are installed and operable. Zone numbers are assigned as shown on plans.
- ☐ Nozzles are checked for clogs, and adjusted for overspray onto paved areas.
- ☐ All zones have been checked for leaks and correct head and valve box heights.
- ☐ All quick-couplers are staked and clamped according to plan detail.
- ☐ No drip tubes are exposed. Drip indicator heads and flush valves are installed.
- ☐ Where required, grounding and surge protection is installed.

Who should be there?

system designer

installation contractor


The fewer the better
s.

How?

preparation

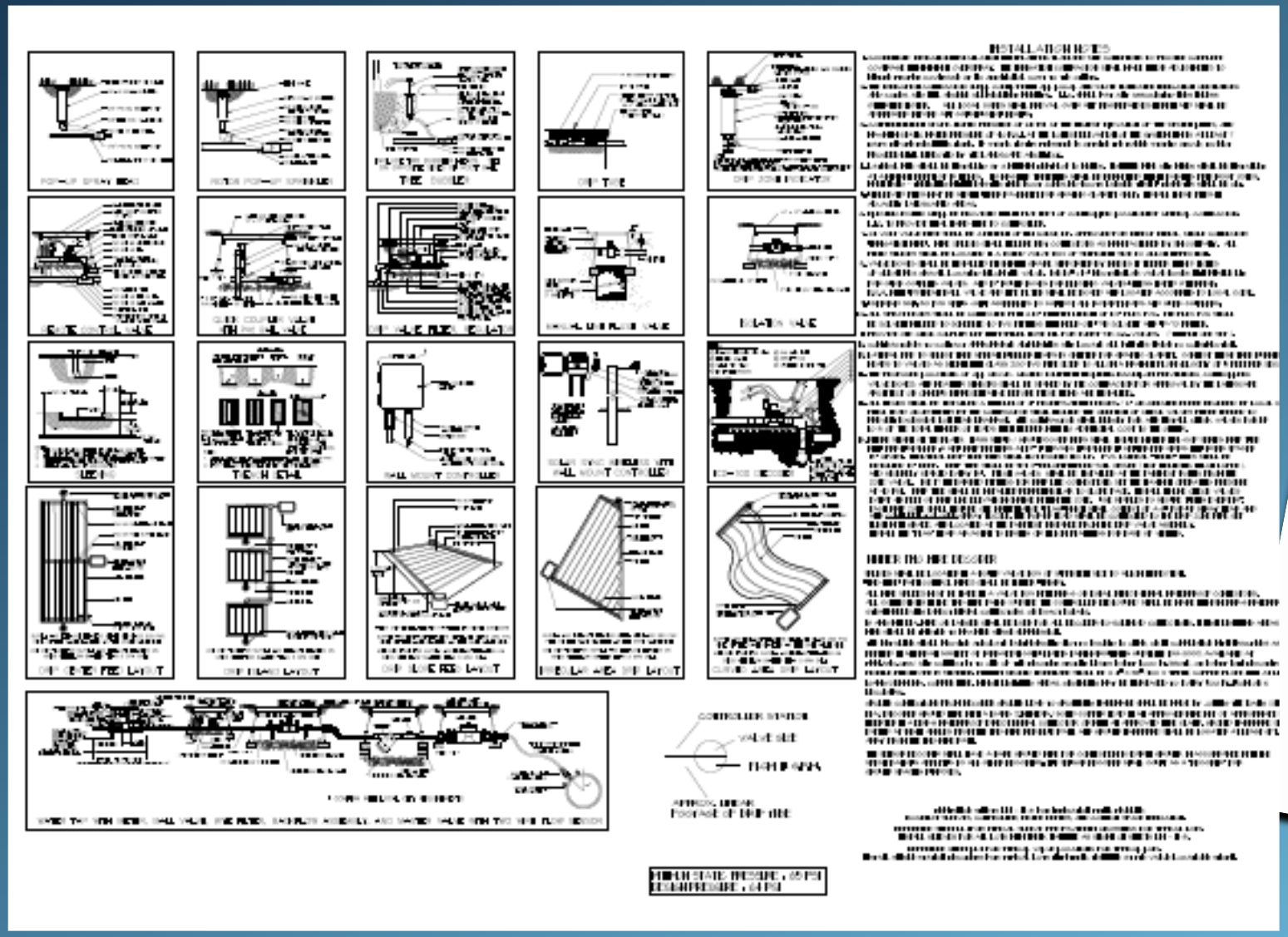
what to bring

general observations

zone by zone check

Preparation

review all plans and specifications



SECTION 328000

LANDSCAPE IRRIGATION SYSTEM

PART 1 – GENERAL

1.1 SCOPE:

A. Furnish all work and materials, appliances, tools, equipment, facilities, transportation, and services necessary for and incidental to performing all operations in connection with the installation of underground sprinkler irrigation system complete, as shown on drawings and/or specified herein. When the term "Contractor" is used in this section, it shall refer to the irrigation Subcontractor.

1.2 QUALITY ASSURANCE:

The following Codes, Regulations, Reference Standards, and Specifications apply to work included in this section: ASTM: D2241, D2464, D2466, and D2564.

1.3 WARRANTY AND MAINTENANCE:

A. The Contractor shall warranty material and workmanship for one year after final acceptance including repair and replacement of defective materials, workmanship, and repair of backfill settlement.

B. Maintenance during warranty shall include, but not necessarily be limited to, the following:

1. Adjustment of sprinkler height and plumb to compensate for settlement and/or plant growth.
2. Backfilling of all trenches.
3. Adjustment of head coverage (arc of spray) as necessary.
4. Unstopping heads plugged by foreign material.
5. Adjustment of controller as necessary to insure proper sequence and watering time.
6. All maintenance necessary to keep the system in good operating order. Repair of damage caused by vandals, other contractors or weather conditions shall be considered extra to these specifications.

C. Warranty and maintenance after final acceptance does not include alterations as necessitated by re-landscaping, re-grading, addition of trees or the addition and/or changes

What to bring?

hard hat and vest

boots

camera

clipboard

plans and specs


Underhill
BAR
100 kPa
psi

General Observations

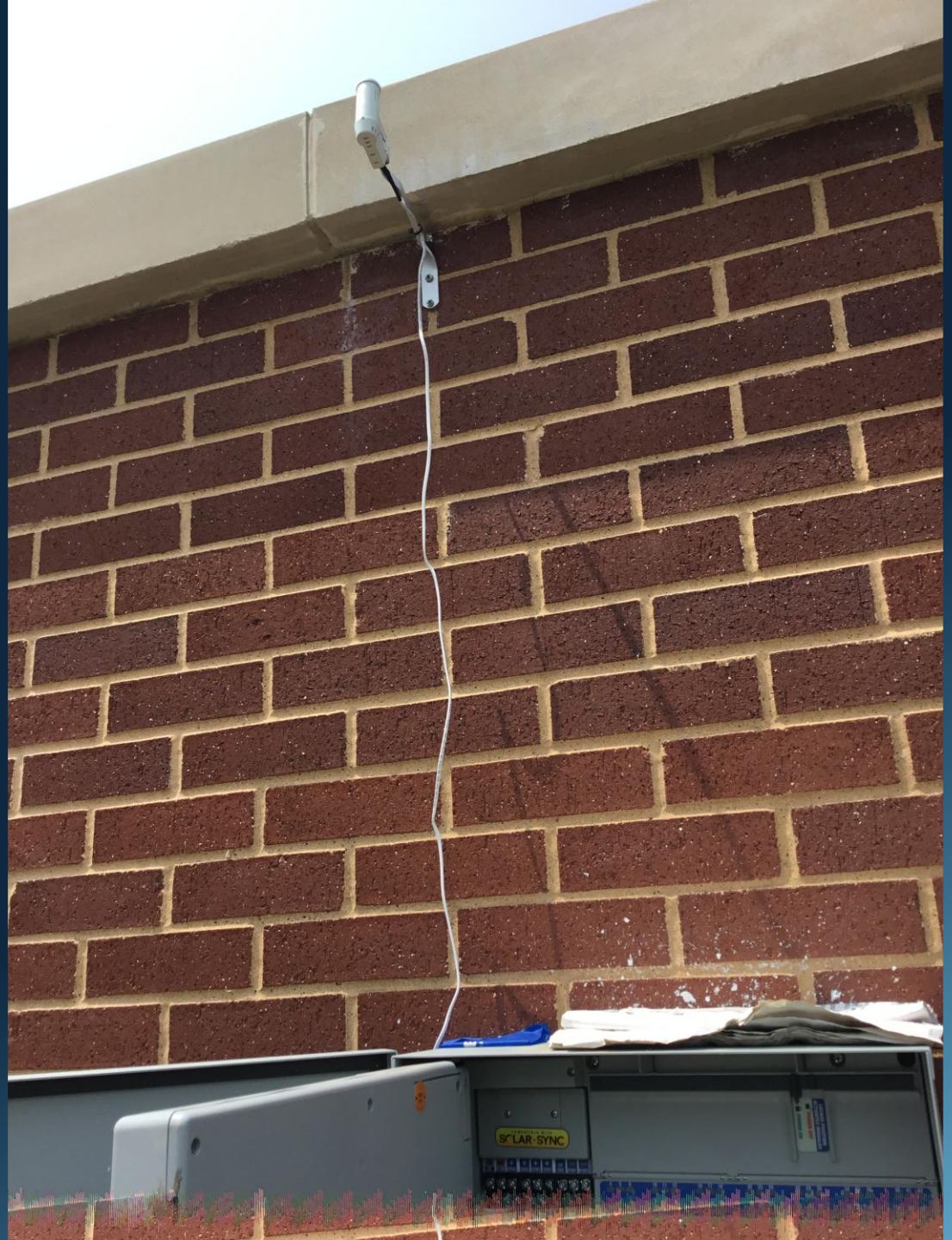
controllers and sensors

valve boxes

heads

drip tubes


RAIN BIRD


SOLAR·SYNC


IRRIGATION
CONTROL VALVE


A31

Zone by zone

Check each zone for issues specific to that valve.


STOP


Express
DFW

CONTROLLER "A"

ZONE #	COMMENTS
A 1	✓
A 2	TWO CLOGGED NOZZLES
A 3	✓
A 4	✓
A 5	✓
A 6	LEAK AT HEAD BY DUMPSTER
A 7	✓
A 8	MISSING DRIP INDICATOR HEAD
A 9	✓
A 10	✓
A 11	BROKEN V.B. LID
A 12	✓
A 13	✓
A 14	OVER-SPRAY INTO STREET
A 15	✓
A 16	✓
A 17	✓
A 18	✓
A 19	EXPOSED DRIP TUBES

Follow-up documentation

Printed punchlist with notes and photos

Recommendations

As-built drawings, keys, and manuals

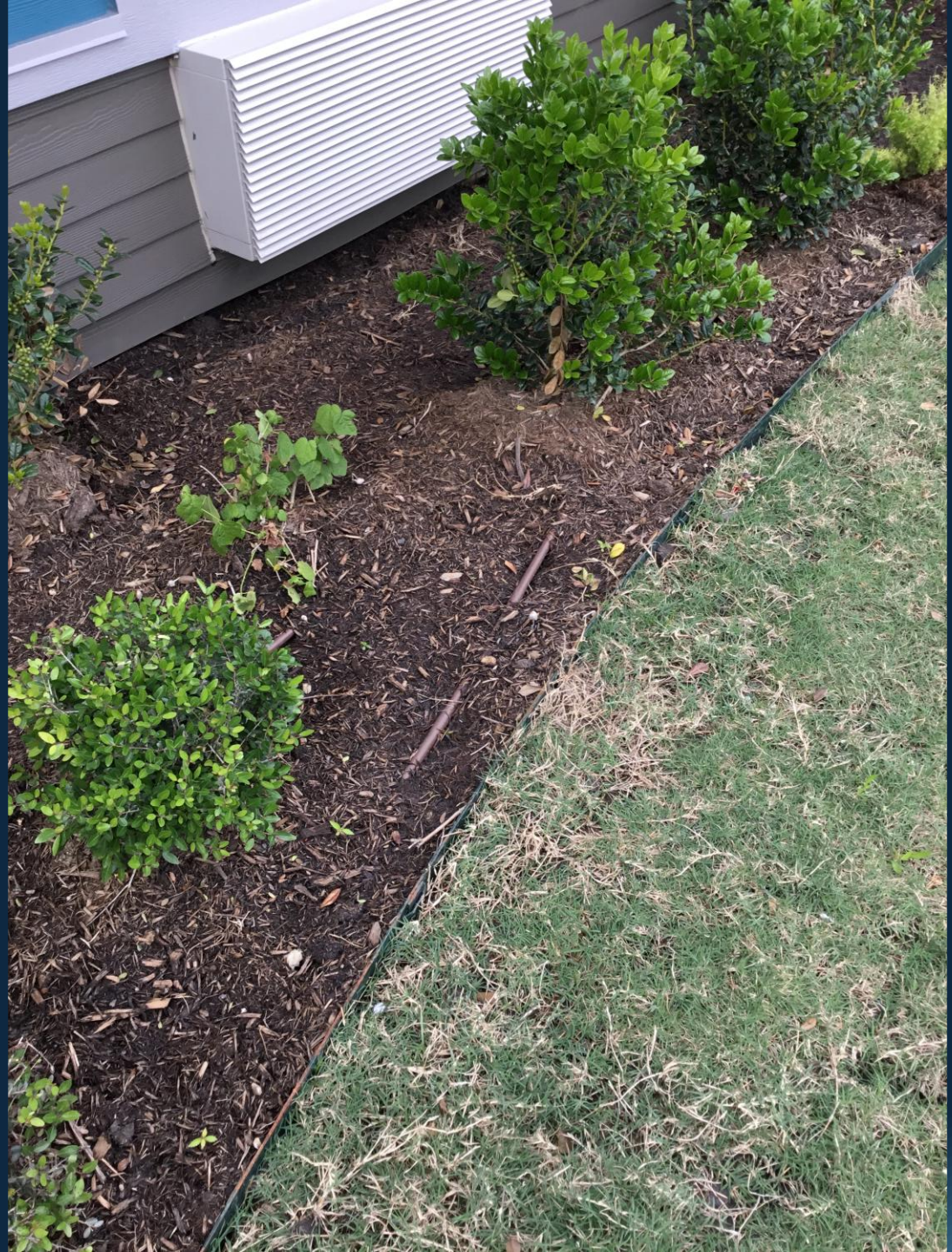
Most common issues

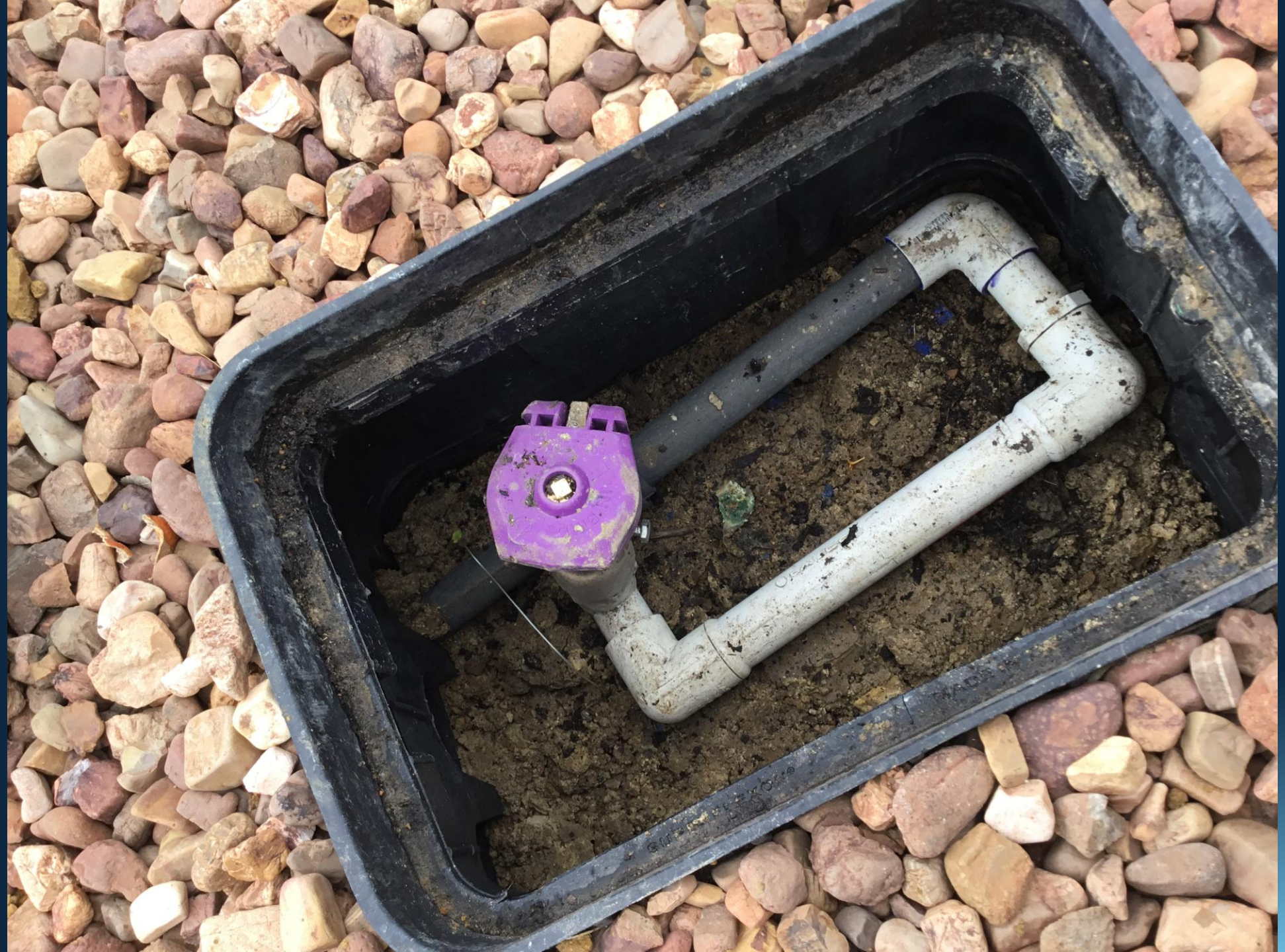
drip irrigation

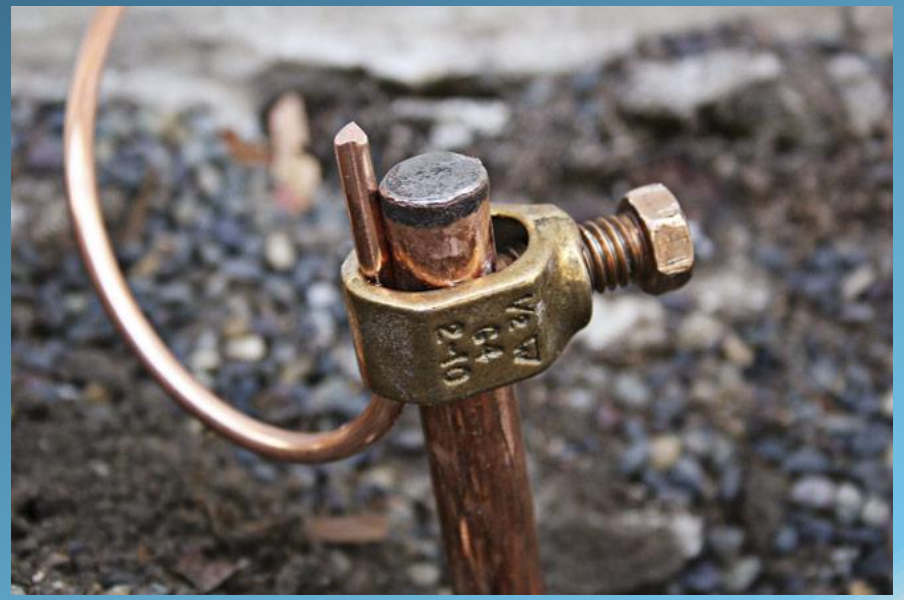
quick couplers

grounding

flow sensing



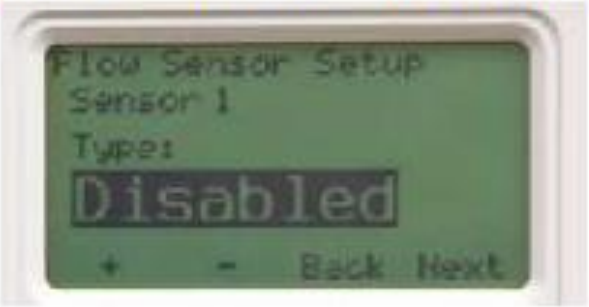





FS

Programming & Operation Guide) Section A, Alarm Conditions for more details.

3. Select your Flow Sensor Type. By default it is Disabled;



4. Press the + and – buttons to select the Sensor Model. In our example we will select the FS150P; then press Next.

5. We will see the next screen confirming the Master Valve and the FloZone we assigned to the Flow Sensor; then press Next.

Lessons Learned

Thank you!

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