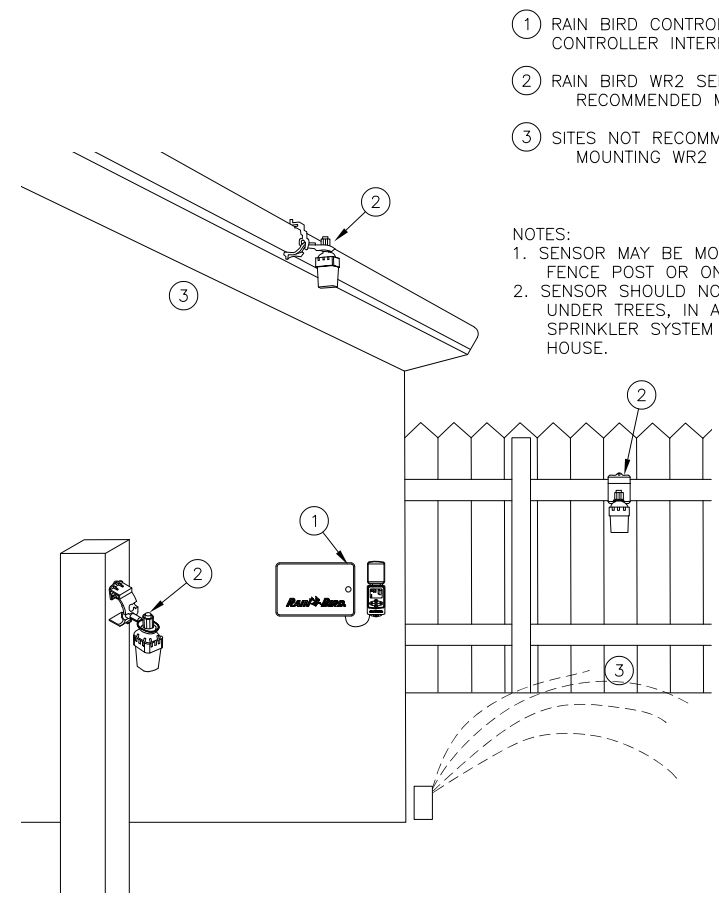
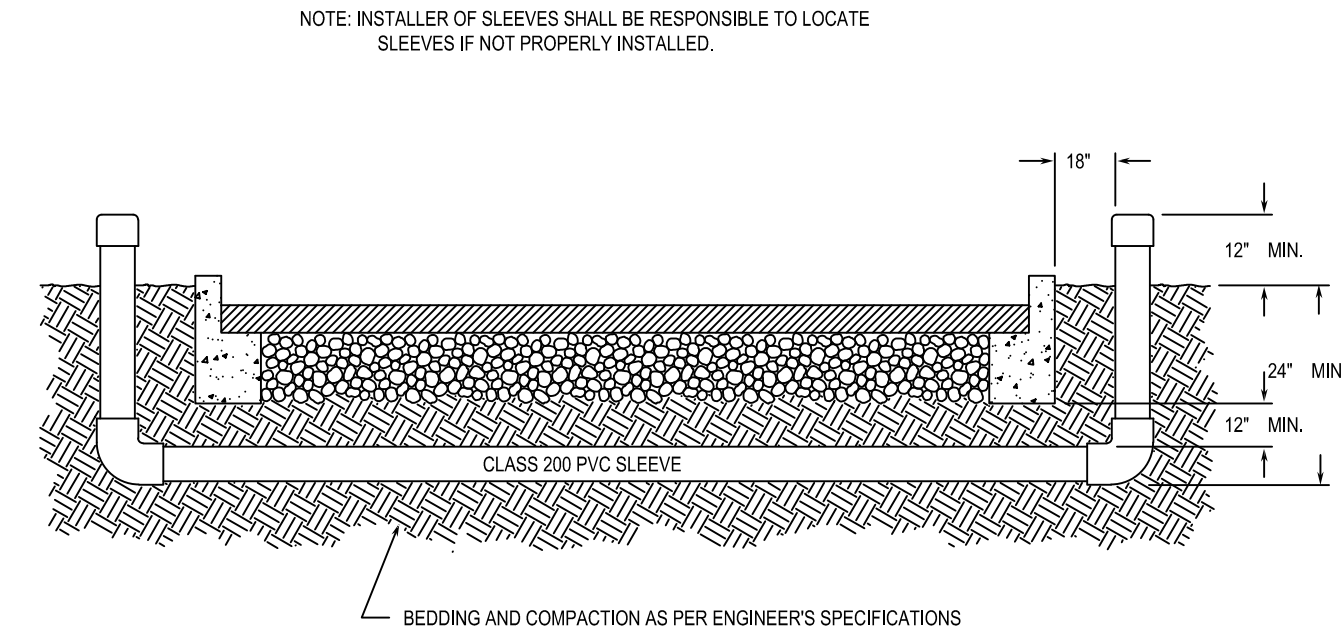
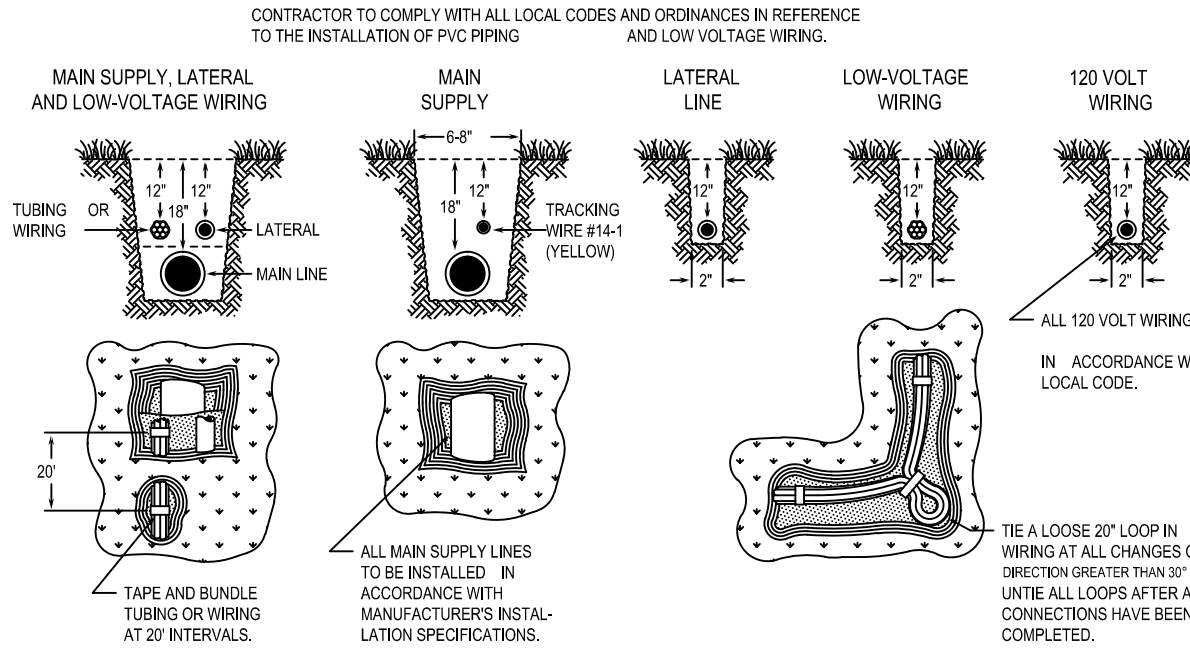


- GENERAL NOTES:
1. MODULAR HYBRID CONTROLLER: RAIN BIRD ESP-ME3 INSIDE WALL MOUNT
  2. 1-INCH PVC SCH 40 CONDUIT AND FITTINGS
  3. WIRES TO REMOTE CONTROL VALVES
  4. STANDARD MODULE FOR 4-STATION CONTROLLERS
  5. OPTIONAL MODULES FOR 22-STATION CONTROLLER
  6. STANDARD 120 V PLUG
  7. 120 VAC, 60 HZ INTERNAL TRANSFORMER



- NOTES:
1. SENSOR MAY BE MOUNTED ON FENCE, FENCE POST OR ON GUTTER OF HOUSE.
  2. SENSOR SHOULD NOT BE MOUNTED UNDER TREES, IN AREAS AFFECTED BY SPRINKLER SYSTEM OR UNDER EAVE OF HOUSE.
- CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO THE INSTALLATION OF PVC PIPING AND LOW VOLTAGE WIRING.



## 1 IRRIGATION CONTROLLER: ESP-ME3

SCALE: NTS (LOCATE IN STORAGE ROOM)

## 2 WR2 WIRELESS RAIN/FREEZE SENSOR

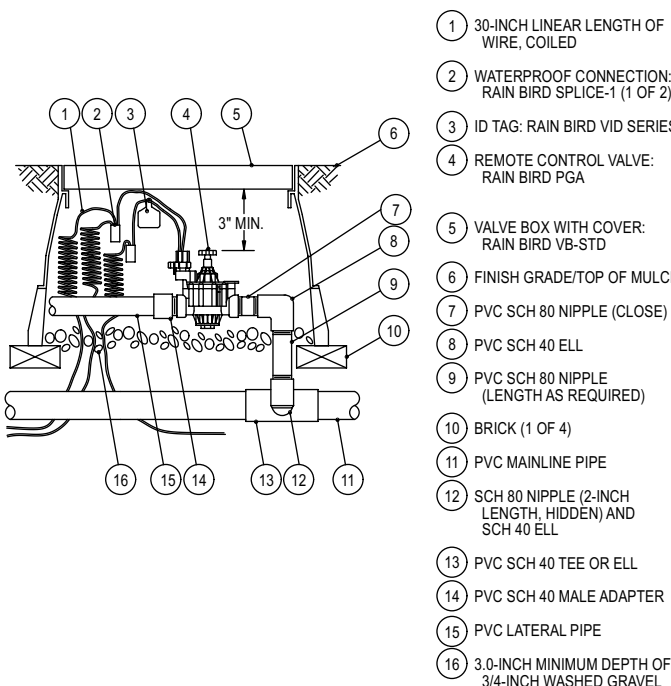
SCALE: NTS (LOCATE AT DUMPSTER WALL)

## 3 IRRIGATION TRENCHING AND PIPE DEPTH

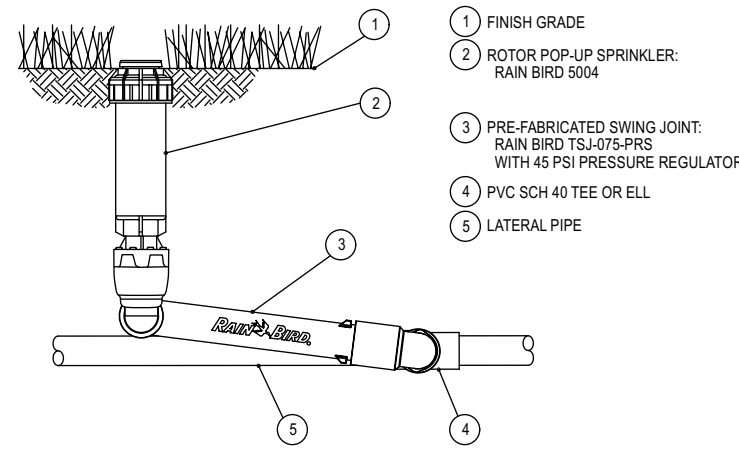
SCALE: NTS

## 4 IRRIGATION SLEEVING

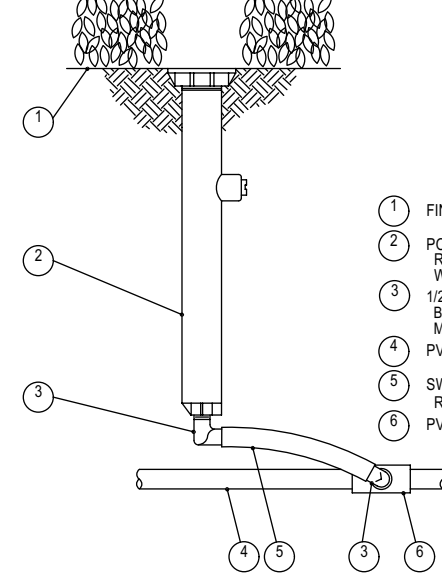
SCALE: NTS



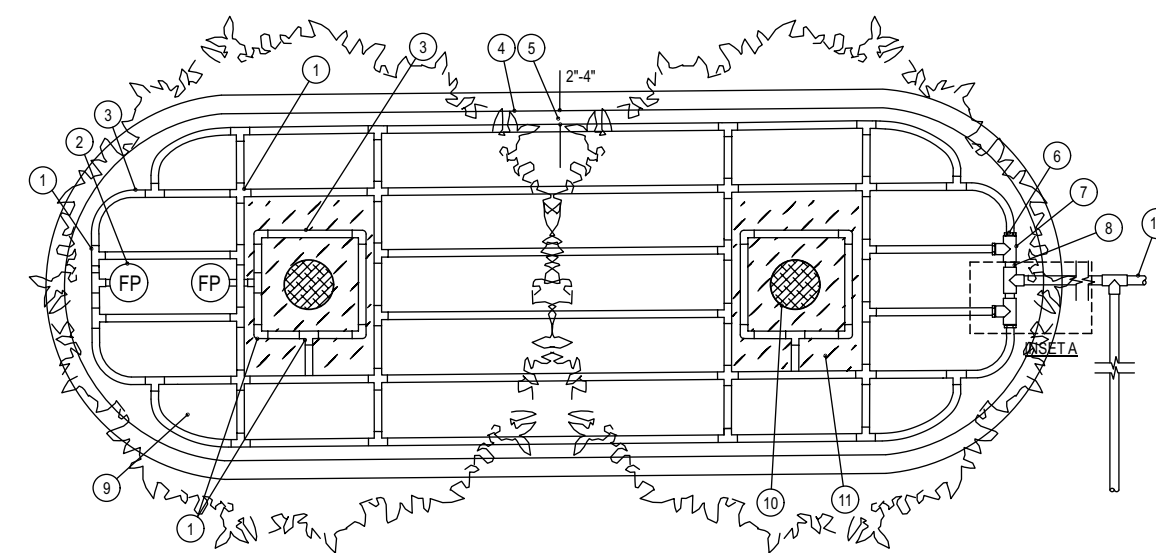
1. 30-INCH LINEAR LENGTH OF WIRE COILED
2. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES: RAIN BIRD PUA
4. REMOTE CONTROL VALVE: RAIN BIRD V8-STD
5. FINISH GRADE/TOPT OF MULCH
6. FINISH GRADE/TOPT OF MULCH
7. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
8. PVC SCH 40 ELL
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-INCH MINIMUM DEPTH OF 34-INCH WASHED GRAVEL



1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD 5004
3. PRE-FABRICATED SWING JOINT: RAIN BIRD TSL-475/PSR WITH 45 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE



1. FINISH GRADE/TOPT OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1800 SERIES WITH 1/2" SERIES NOZZLE - PPS
3. 1/2-INCH MALE SET X .405 INCH BARB ELBOW: RAIN BIRD MODEL SSE-550
4. PVC LATERAL PIPE
5. SWING PIPE: 12-INCH LENGTH: RAIN BIRD MODEL SP-100
6. PVC SCH 40 TEE OR ELL



- NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
  2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
  3. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
  4. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE THE DOWN STAKES - ON EACH LEG OF THE CHANGE OF DIRECTION.
  5. WHEN USING 1/2-INCH INSERT FITTINGS WITH DESIGN PRESSURE OVER 50 PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

Total Pressure psi	XFCV Dripline Maximum Lateral Lengths (Feet)	
	12" Spacing	18" Spacing
20	6.6	6.6
30	102	126
40	153	194
50	205	262
60	257	330

1. BARB X BARB INSERT EL, TEE OR CROSS: RAIN BIRD XFF-ELBOW (TYPICAL), RAIN BIRD XFF-TEE (TYPICAL), RAIN BIRD XFF-CROSS (TYPICAL)
2. FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "XFD FLUSH POINT"
3. ON-SURFACE DRIPLINE PIPE: RAIN BIRD XFCV SERIES DRIPLINE POTABLE: XFCV DRIPLINE
4. PARKING ISLAND CURB
5. PERMETER DRIPLINE PIPE TO BE INSTALLED 2'-4" FROM PARKING ISLAND CURB
6. BARB X MALE FITTING: RAIN BIRD XFCV MALE FITTING (TYPICAL)
7. PVC SCH 40 TEE OR EL (TYPICAL)
8. PVC SUPPLY MANIFOLD
9. SHRUB OR GROUND COVER BED
10. TREE (TYPICAL)
11. MULCH BED FOR TREE
12. 3-INCH DEPTH OF MULCH
13. FINISH GRADE
14. PVC DRIPLINE MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
15. PVC RISER PIPE

## 5 IRRIGATION VAVLE: 100-PGA

SCALE: NTS

## 6 POP-UP ROTOR: 5000 SERIES W/T MPR NOZZLE

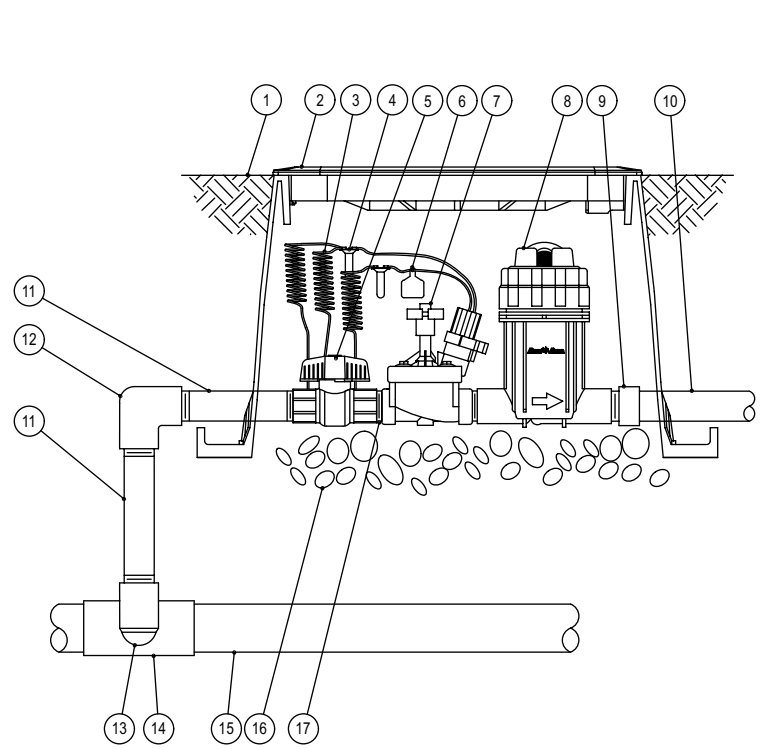
SCALE: NTS

## 7 POP-UP SPRAY: 1800 SERIES

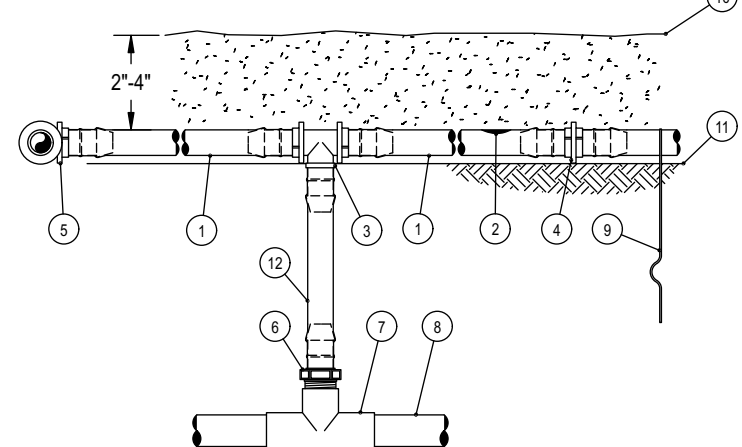
SCALE: NTS

## 8 DRIP: SYSTEM LAYOUT AND INSTALLATION OVERVIEW

SCALE: NTS

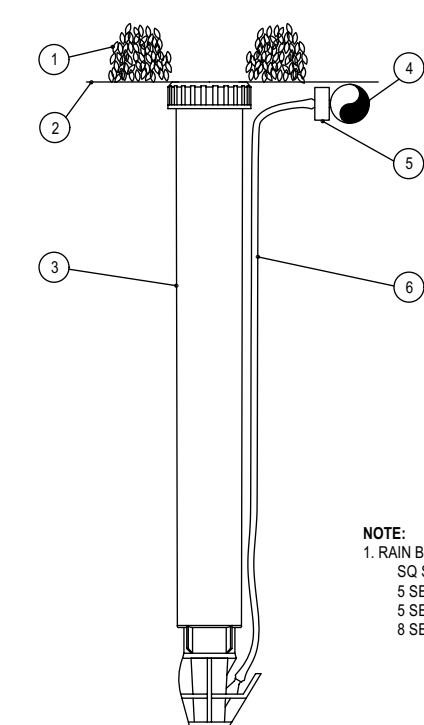


1. FINISH GRADE/TOPT OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. 30-INCH LINEAR LENGTH OF WIRE COILED
4. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
5. 1-INCH BALL VALVE (INCLUDED IN XFCV-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE: RAIN BIRD V8-STD (INCLUDED IN XFCV-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK: RAIN BIRD PRB-QC-100 (INCLUDED IN XFCV-PRB-100-COM KIT)
9. PVC SCH 40 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 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 34-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XFCV-PRB-100-COM KIT)

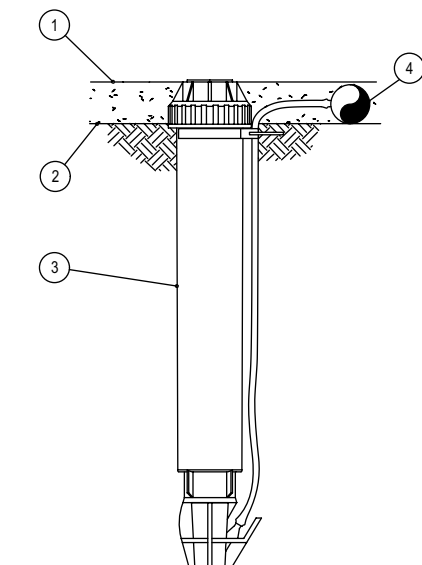


- NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
  2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE THE DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
  3. SAVE YOUR HANDS. USE THE RAIN BIRD FITTING TOOL, XFF INSERTION TOOL FOR FITTING ASSEMBLY.

1. ON-SURFACE DRIPLINE: RAIN BIRD XFCV SERIES DRIPLINE POTABLE: XFCV DRIPLINE
2. INLINE DRIPLINE EMITTER OUTLET: SEE PLANS FOR DRIPLINE OUTLET SPACING
3. BARB TEE (17x17mm) RAIN BIRD XFF-TEE
4. BARB COUPLING (17x17mm) RAIN BIRD XFF-COUP
5. BARB ELBOW (17x17mm) RAIN BIRD XFF-ELBOW
6. BARB MALE ADAPTER (17mm X 1/2" MPT) RAIN BIRD XFF-MA-050
7. 17mm X 3/8" MPT RAIN BIRD XFF-MA-075
8. PVC TEE 5/8x1
9. PVC LATERAL SUPPLY HEADER
10. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
11. MULCH
12. FINISH GRADE
13. RAIN BIRD XFF SERIES BLANK TUBING LENGTH AS REQUIRED

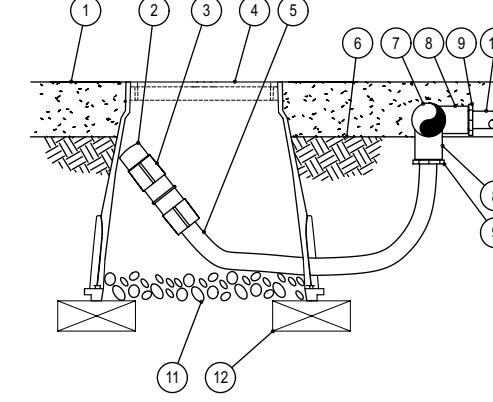


- NOTE:
1. RAIN BIRD XERI-POP CAN UTILIZE THE FOLLOWING NOZZLES: 5/8" SQUARE NOZZLES (FORMERLY XPCN)
  - 5 SERIES MPR NOZZLES (ALL CONFIGURATIONS)
  - 5 SERIES PLASTIC BUBBLERS
  - 5 SERIES MPR NOZZLES (R1, R1T AND R2)



1. MULCH
2. FINISH GRADE
3. MICRO-SPRAY POP-UP: RAIN BIRD XERI-POP 18"-100X
4. 1/2" POLYETHYLENE TUBING: RAIN BIRD XFF SERIES TUBING OR RAIN BIRD XT-700 KERTUBING OR RAIN BIRD XBS BLACK STRIPE TUBING
5. 1/4" SELF-PIERCING BARB CONNECTOR: RAIN BIRD SPB-025
6. 1/4" DISTRIBUTION TUBING: RAIN BIRD XD TUBING (LENGTH AS REQUIRED)

- NOTE:
1. USE XERIMAN TOOL XM-TOOL TO INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
  2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO WATER. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.



- NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

1. MULCH
2. FLUSH CAP FOR EASY FIT: COMPRESSION FITTINGS: POTABLE: RAIN BIRD MDCCFP
3. EASY FIT COUPLING: RAIN BIRD MDCCFP
4. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7x8
5. 1/2" POLYETHYLENE TUBING: RAIN BIRD XFF BLANK TUBING
6. FINISH GRADE
7. PVC EXHAUST HEADER
8. PVC SCH 40 TEE OR EL
9. BARB X MALE FITTING: RAIN BIRD XFF MALE FITTING (TYPICAL)
10. ON-SURFACE DRIPLINE: RAIN BIRD XFCV SERIES DRIPLINE POTABLE: XFCV DRIPLINE
11. 3-INCH MINIMUM DEPTH OF 34" WASHED GRAVEL: BRICK (1 OF 4)

## 9 DRIP VALVE: XFCV-PRB-100-COM

SCALE: NTS

## 10 DRIP: ON-SURFACE RISER ASSEMBLY

SCALE: NTS

## 11 DRIP: XERI-POP MICRO SPRAY

SCALE: NTS

## 12 DRIP: OPERATION INDICATOR

SCALE: NTS

## 13 DRIP: DRIPLINE FLUSH POINT

SCALE: NTS



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