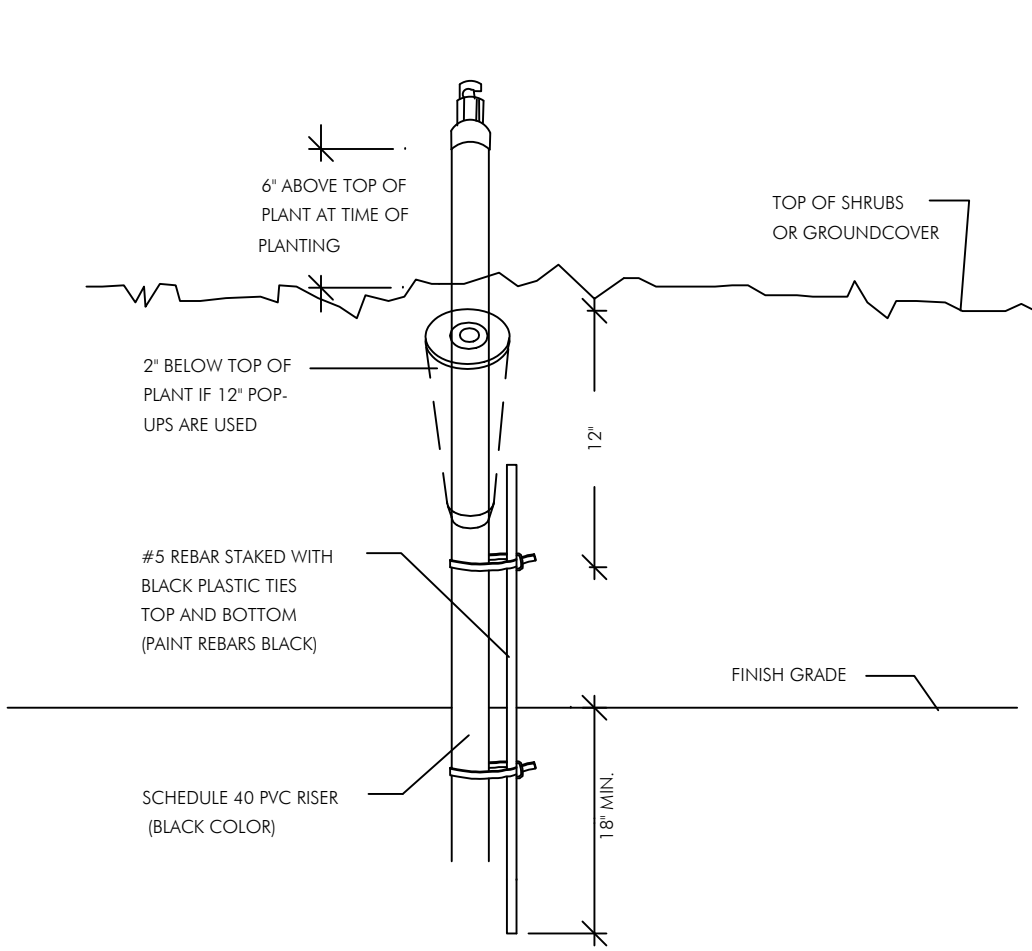


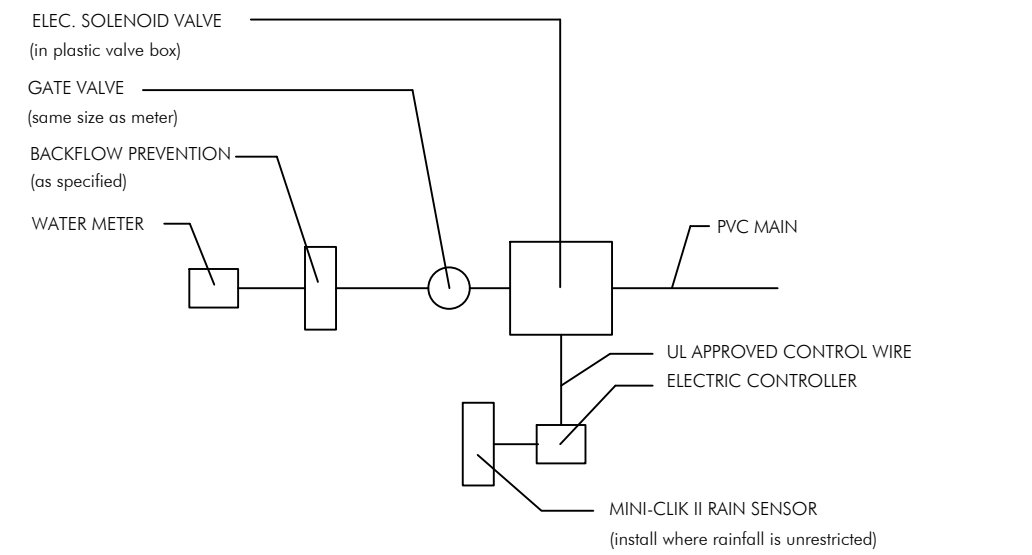
GENERAL NOTES:

1. SCOPE OF WORK: The Contractor shall furnish all labor, machinery, tools, supplies, and equipment as necessary to construct and provide an operating system, as indicated in the Plans. The work shall include, but not be limited to, furnishing materials (pipe, valves, sprinkler heads, fittings, controllers, electrical, wire and fittings, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfilling, compaction, repair of road or pavement surfaces, controller and low voltage lead to the valves, clean-up, maintenance and guarantee, and as-built plans.
2. Contractor shall coordinate with General Contractor or other pertinent Contractors on the job to insure that sleeves are provided and installed under hard surfaces to allow access to all areas to be irrigated. All sleeves shall be constructed of Class 200 PVC. Bury all sleeves a minimum of 18" below the surface. Sleeve to be double the size if the pipe running through it. Sleeve shall extend 24" past the edge of pavement into the area to be irrigated.
3. GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.
4. REPAIR UTILITIES: The Contractor shall be responsible to verify the location of all utilities by hand excavation or other appropriate measures before performing any work that may result in damage to utilities structures, or property. The Contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to his operations. All costs involved in disruption of service and repairs due to negligence on part of the Contractor shall be his responsibility.
5. AS-BUILT DRAWINGS: Prints of the plans will be supplied to the Contractor for recording "as-built" information. Immediately upon installation of any work which deviates from what is shown on the Plans, the Contractor shall clearly indicate such changes in red pencil on the prints. Such changes shall include, but not be limited to, changes in (1) materials; (2) sizes of material; (3) location; and (4) quantities.
6. The entire installation shall fully comply with all applicable local and state codes and ordinances. The Contractor shall take out all required plumbing and electrical applications and permits, arrange for all necessary inspections and shall pay all fees and expenses in connection with same as part of work under the contract.
7. UNIT PRICES: The successful bidder shall furnish, to the Owner, a unit price breakdown for all materials. The Owner may at his own discretion, add to or delete from the materials, using the unit price breakdown submitted to and accepted by the Owner.
8. MAINTENANCE PERIOD: The irrigation system shall be maintained for a period of 90 days after final acceptance of installation. Maintenance shall include checking of the system 2 times per week. Contractor shall be responsible to replace/repair any broken or malfunctioning parts of the system including those damaged by accidents or vandalism. Repairs shall be made immediately at the time of inspection or when notified by the Landscape Architect.
9. The irrigation system shall provide 100% coverage with a minimum of 90% overlap of water spray.
10. The system is designed to provide sprinkler precipitation rates that are nearly equal in each zone. Mixing of sprinklers with widely-varying precipitation rates in a zone will not be accepted.
11. Irrigation mainline shall be made of Class 200 PVC and all laterals shall be Class 200 PVC, except flexible PVC (or Toro funny pipe) for flexible swing joint and Schedule 40 PVC risers for spray heads in shrub areas. Schedule 80 galvanized steel pipe is to be used for all above ground fittings. Pipe locations shall be adjusted in the field. When laying out mains and laterals, locate pipe near edges of pavement or against buildings wherever possible, to allow space for plant rootballs. Coordinate pipe locations with plantings. Bury all mains and laterals 18" min. below surface. Depth shall be measured to top of pipe.
12. Keep pop-up sprinkler heads a minimum of 8" from edges of pavement and curbing, and heads on risers a minimum of 18", or as indicated in the plans.
13. All heads located in shrub or groundcover beds shall be installed on a riser as per details in the plans. All other heads shall be installed on a swing joint as per details in the plans.
14. Place irrigation control wire in conduit in the same trench as mains and under the main. #14 wire shall be #14 or larger solid copper UL approved underground direct burial cable and shall be continuous with no splices from controller to solenoid valve.
15. Valve locations are schematic and shall be adjusted in the field. Each valve shall be in a separate valve box (10' x 14' min.). When grouping valve boxes in grass or groundcover areas, set boxes a minimum of 12' apart to allow grass or groundcover to grow between them. When possible, hide valve boxes in shrub beds, a minimum of 12" from edges of beds. Set all valve boxes, concrete or plastic, in ground with cover flush with finish grade, and level, with a minimum of 6" of pea gravel at the bottom of the box, with at least 2" of clearance from the bottom of the valve to the top of the gravel.
16. TESTING: Notify the Landscape Architect in writing when testing will be conducted. Conduct test in the presence of the Landscape Architect. After all PVC assembly is completed the lines shall be flushed to insure that no rocks, sand, or other foreign debris remains in the lines. The mains shall be filled with water and all outlets shall be capped and plugged. The main shall be pressurized to 100 PSI for a minimum of one hour. No section of the main pipe will be approved if the pressure drops more than 5 PSI at the end of the one hour period. Leaks shall be repaired immediately and the system shall be re-tested until found satisfactory by the Landscape Architect.



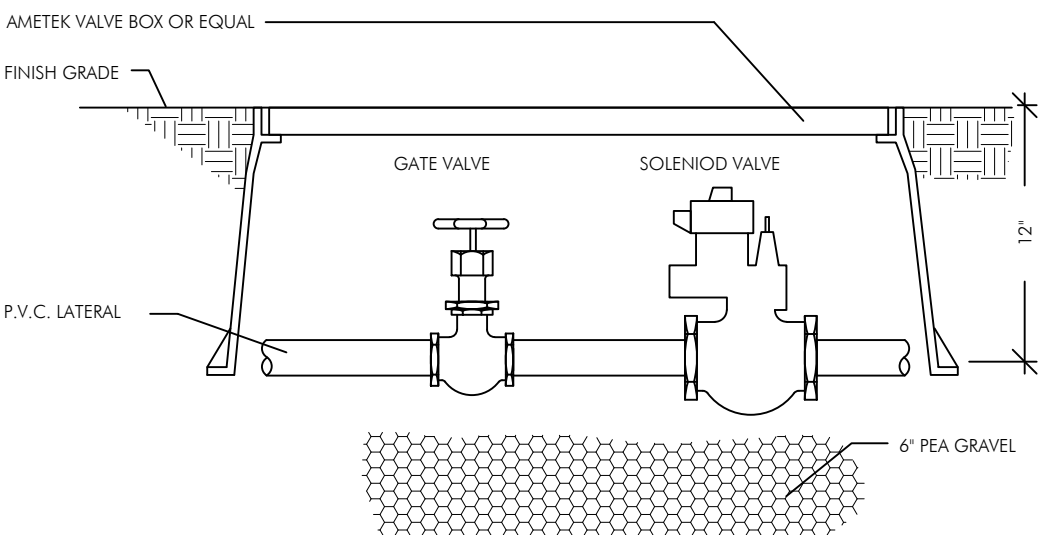
SPRINKLER ON RISER DETAIL FOR SHRUB AREAS

N.T.S.



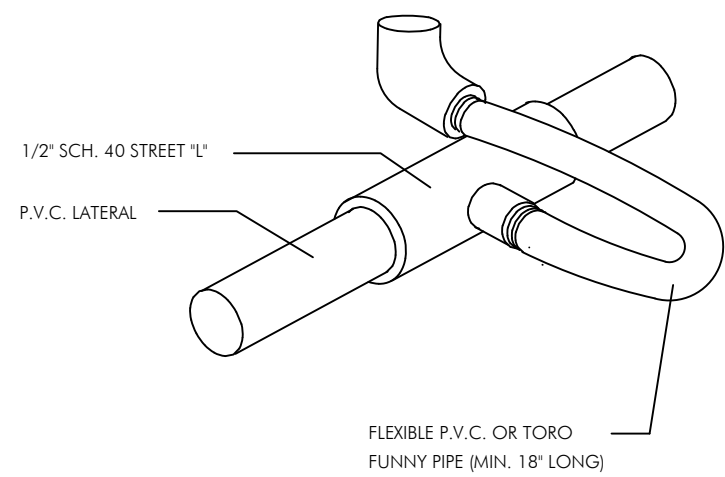
CONNECTION TO METER DETAIL

N.T.S.



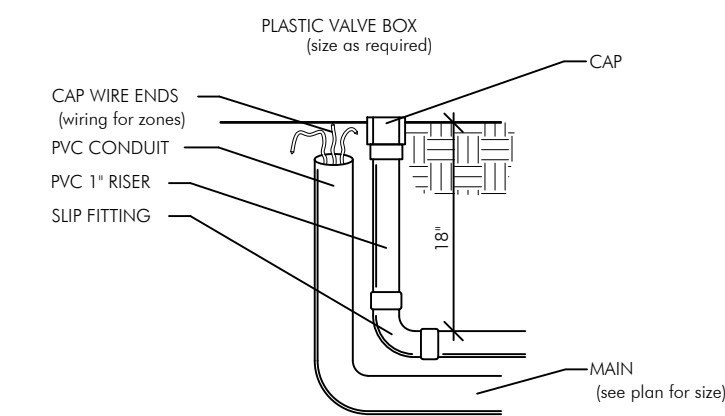
TYPICAL SOLENOID VALVE ASSEMBLY

N.T.S.



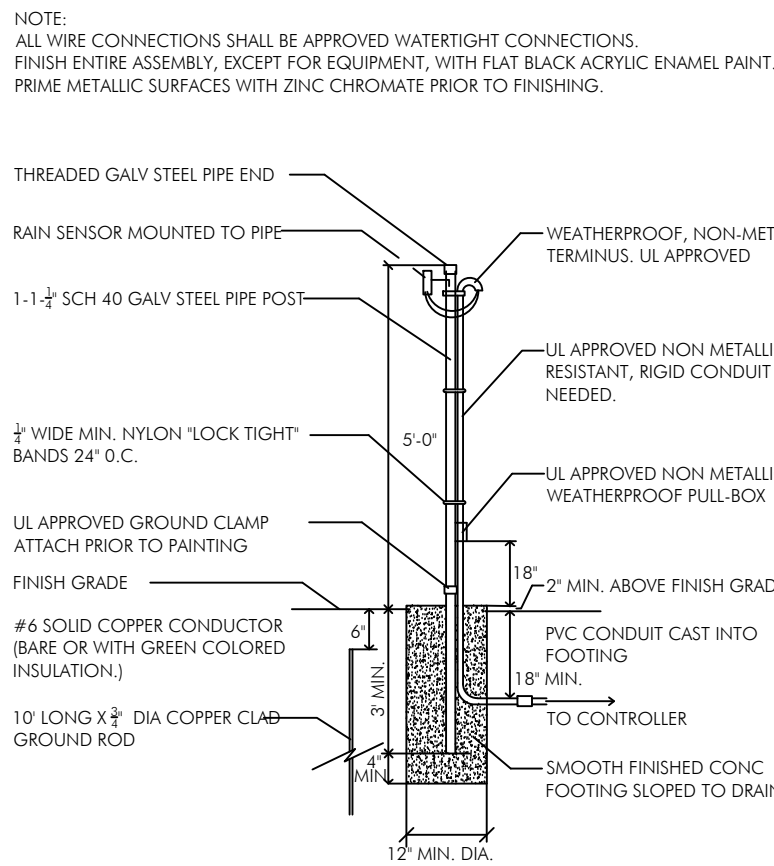
FLEXIBLE SWING JOINT DETAIL

N.T.S.



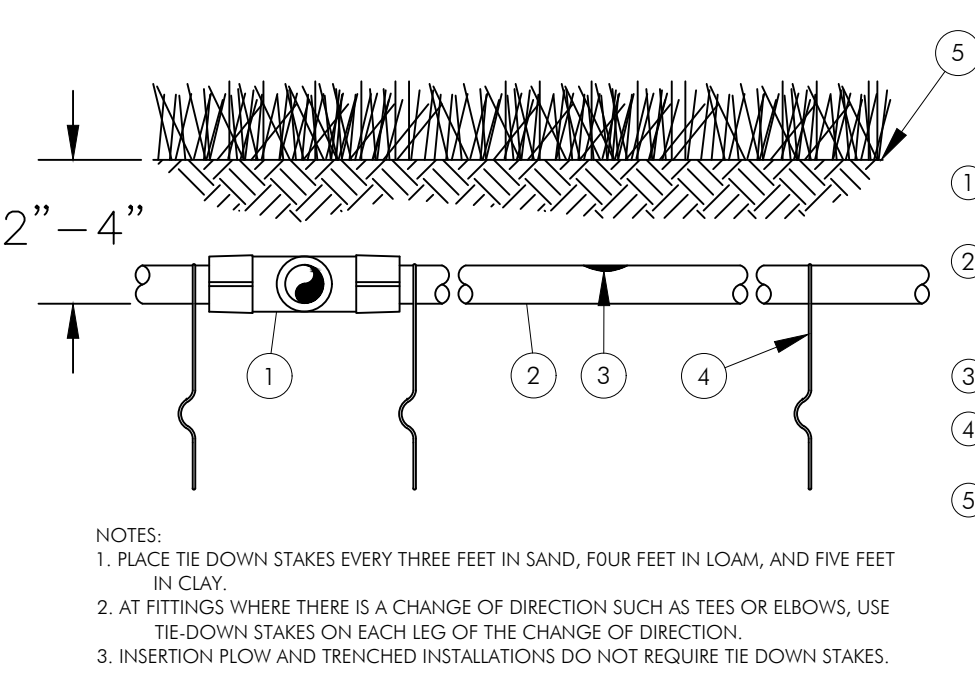
DETAIL OF STUB-OUT FOR FUTURE USE

N.T.S.



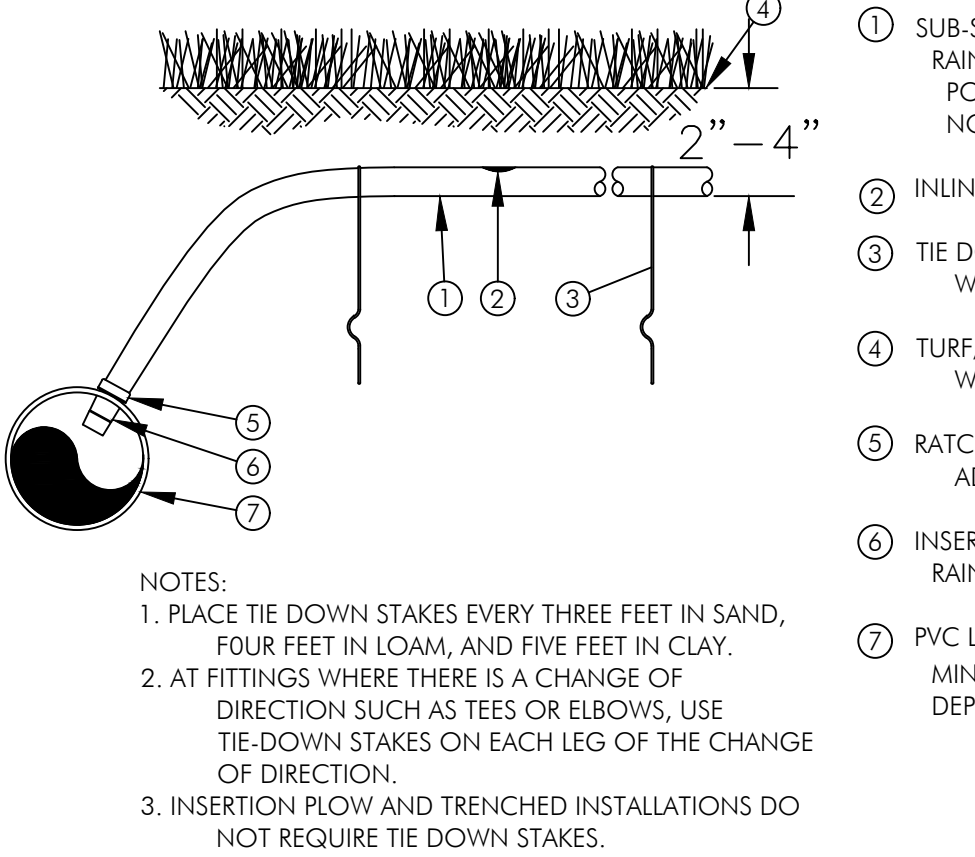
RAIN SENSOR DETAIL

N.T.S.



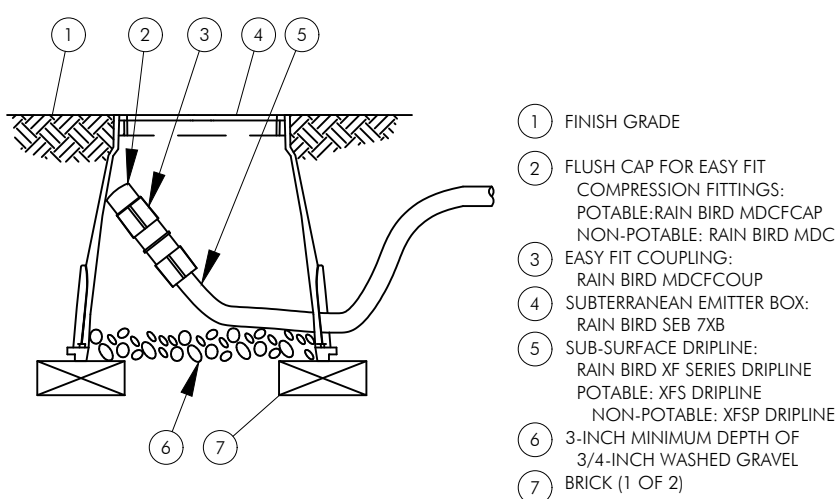
XFS SUBSURFACE DRIPLINE BURIAL

N.T.S.



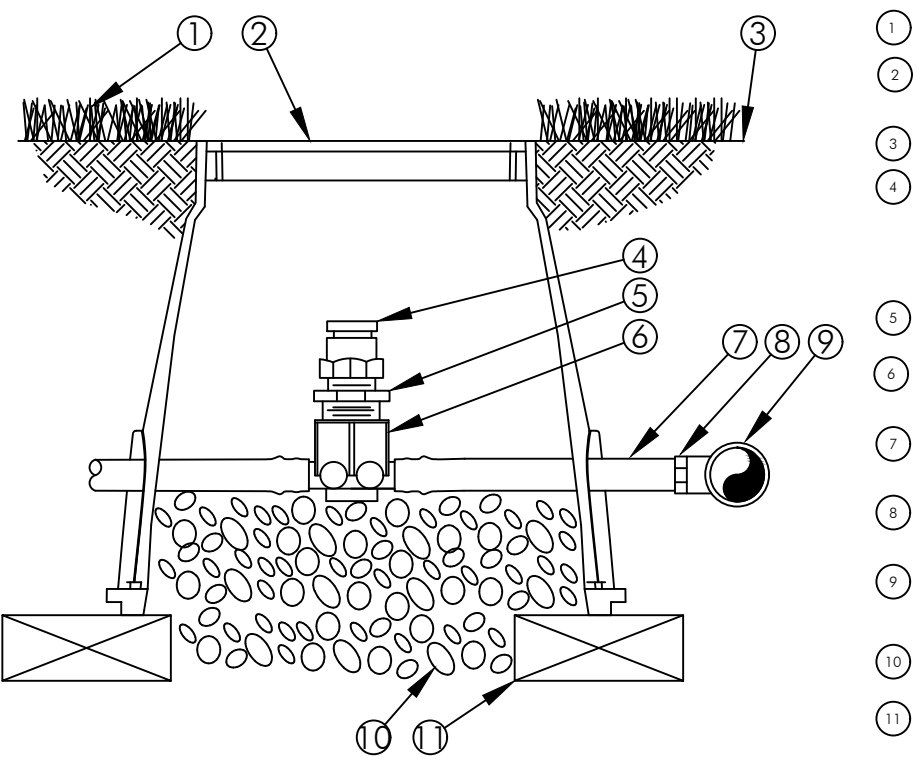
XFS SUBSURFACE DRIPLINE ADAPTER FOR PVC

N.T.S.



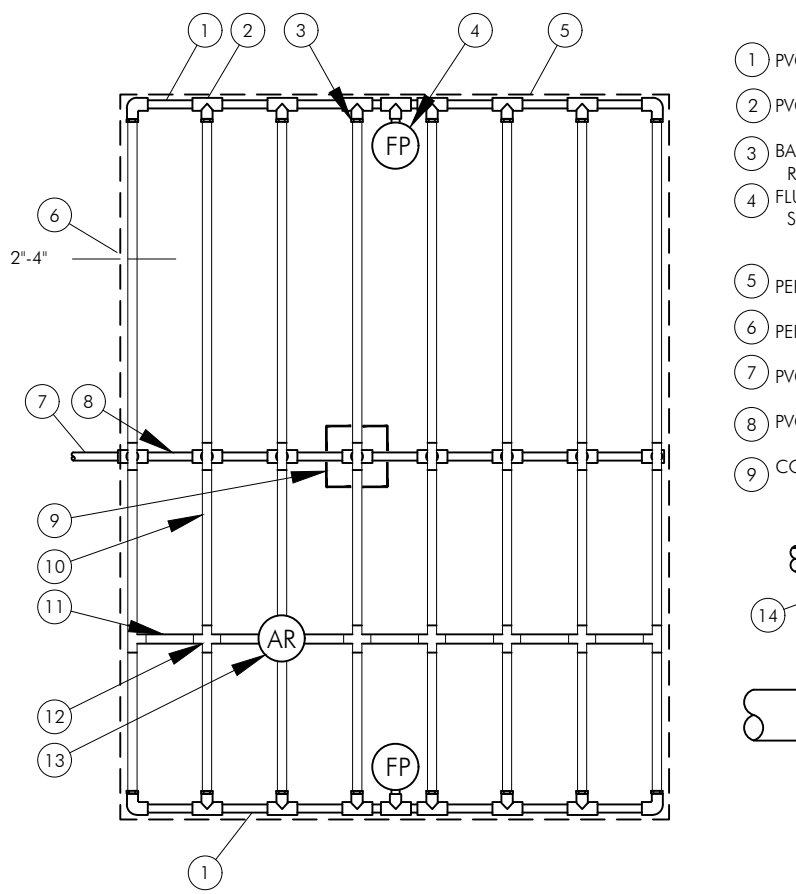
XFS DRIPLINE FLUSHPOINT WITH COMPRESSION FITTINGS

N.T.S.



XFS AIR/VACUUM RELIEF

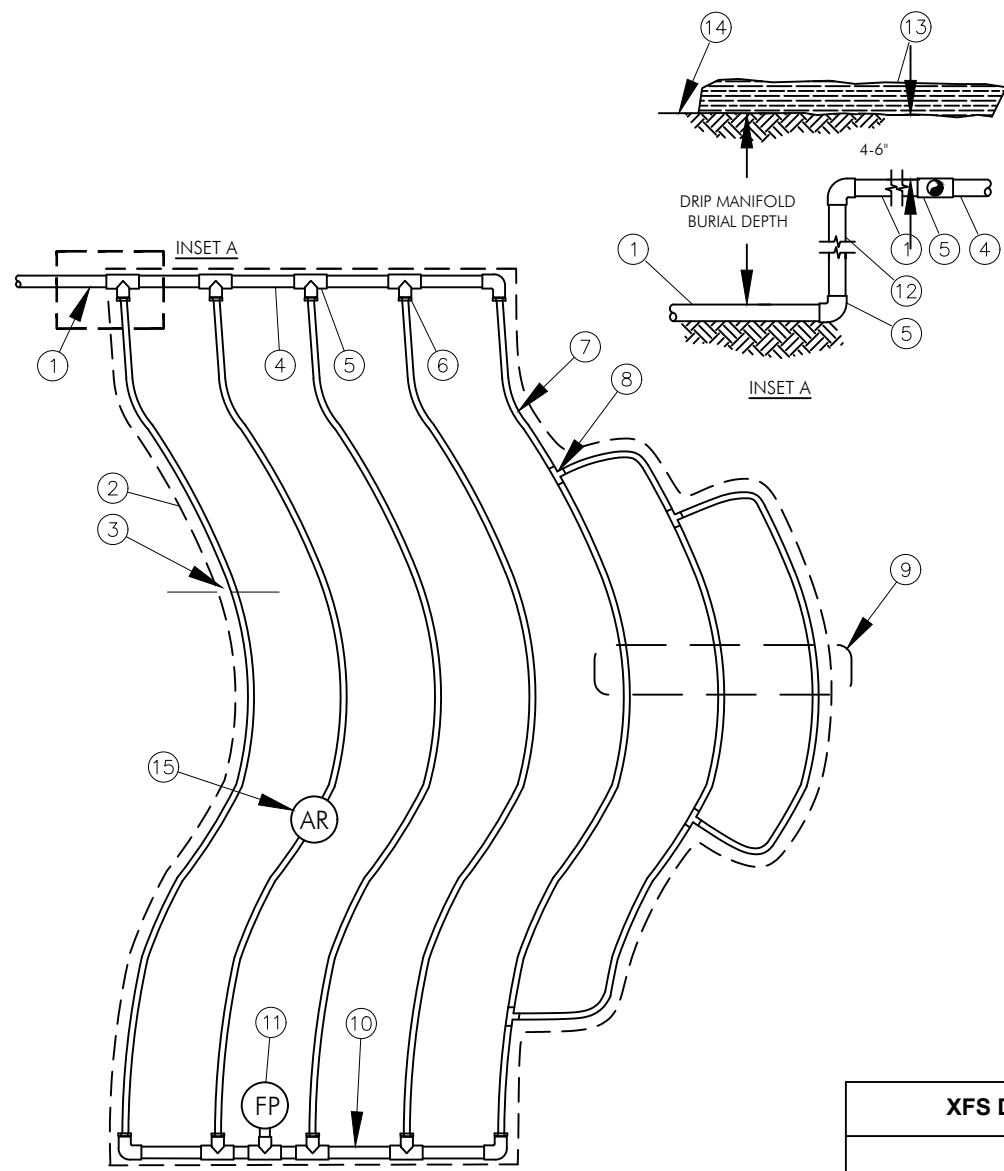
N.T.S.



- NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XF-SDI DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 - AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFS SUBSURFACE DRIPLINE CENTERFEED LAYOUT

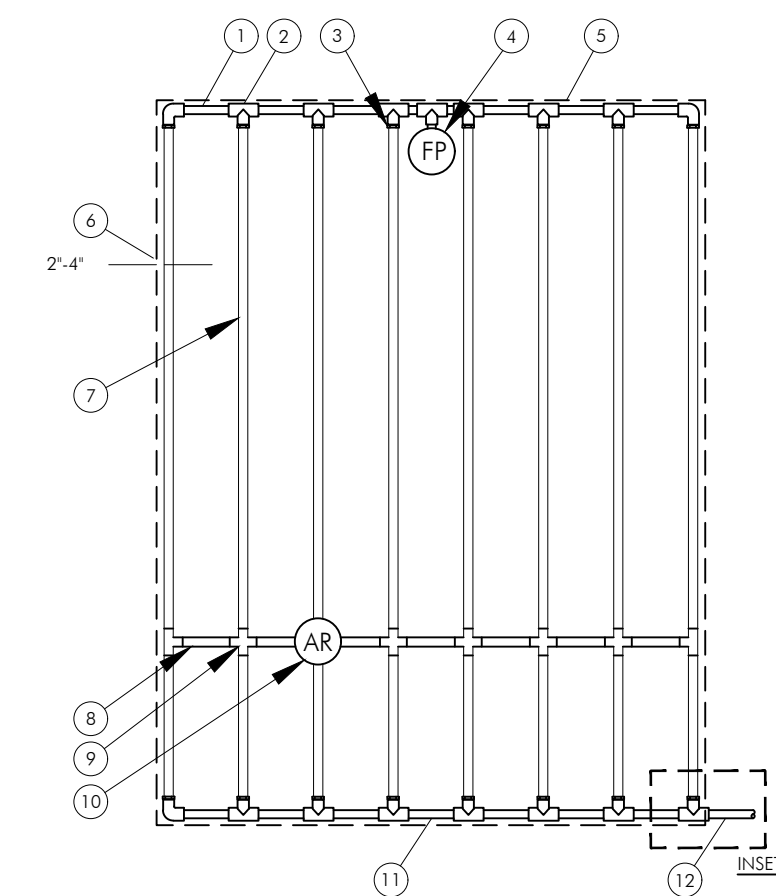
N.T.S.



- NOTES:
- 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.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
 - INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIP LATERAL.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFS SUBSURFACE DRIPLINE ODD CURVES LAYOUT

N.T.S.



- NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XF DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 - AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

XFS SUBSURFACE DRIPLINE END FEED LAYOUT

N.T.S.

XFS Dripline Maximum Lateral Lengths (Feet)						
Inlet Pressure psi	12\"		18\"		24\"	
	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

- PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
- PERIMETER OF AREA
- PERIMETER DRIPLINE PIPE TO BE INSTALLED 2\"
- PVC SUPPLY MANIFOLD
- PVC SCH 40 TEE OR EL (TYPICAL)
- BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
- BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
- TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
- PVC FLUSH HEADER
- FLUSH POINT: SEE RAIN BIRD XFS DETAILS FOR FLUSH POINT INSTALLATION
- PVC RISER PIPE
- TURF OR MULCH
- FINISH GRADE
- AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050 SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION

XFS Dripline Maximum Lateral Lengths (Feet)						
Inlet Pressure psi	12\"		18\"		24\"	
	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

XFS SUBSURFACE DRIPLINE RISER ASSEMBLY

N.T.S.



- MAINTENANCE NOTES FOR DRIPPER IRRIGATION:
- ALL DRIPPER LINE SHALL BE CHECKED WEEKLY TO ENSURE THAT IT IS COVERED BY MULCH AND FLOWING PROPERLY.
 - ANY BREAKS ENCOUNTERED ARE TO BE FIXED IMMEDIATELY.
 - DRIPPER LINE FILTERS SHALL BE MAINTAINED TO ENSURE THEY ARE ALWAYS CLEAN.

*NOTE:

All main, lateral, and valve locations are shown schematically and shall be adjusted in the field. Locate mains and laterals in landscape areas (preferably at edges of curbs or walks.) Coordinate pipe locations with existing and proposed rootball locations. Group and locate valve at edges of shrub beds where feasible.



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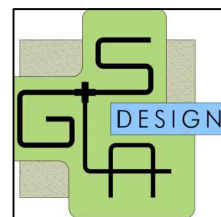
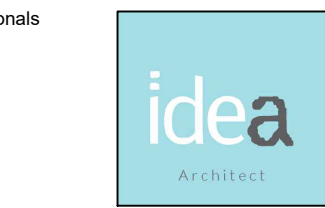
CANAL PARK
3323 NE 163rd Street, Suite 200 North Miami Beach, FL 33160
1 305.792.0015 1 305.931.0279 @info@absolute-idea.com

SEAL

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS HEREBY PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE, THEY COMPLY WITH ALL CITY, STATE AND FEDERAL REQUIREMENTS AND I AM NOT PROVIDING ANY DESIGN OR CONSTRUCTION SERVICES IN ANY OTHER JURISDICTION.

KEN GARDNER
FL LA 1589

Professionals



REV.	DATE	DESCRIPTION
01	XX-XX-2024	D.R.C. SUBMITTAL

ALL MEASUREMENTS MUST BE VERIFIED BEFORE BEGINNING THE WORKS. NO MEASUREMENTS ARE TO BE SCALED DIRECTLY FROM THIS DRAWING.

Key section

Client

VERA FUND
NICK POLYUSHKIN
& YURI KHARITONENKOV
TEL: 305.833.3303

Project

**1600 S FEDERAL HIGHWAY
(MIXED-USE PROJECT)**
**1600 SOUTH FEDERAL HIGHWAY,
POMPAHO BEACH, FL 33062**

Title

IRRIGATION DETAILS
& SPECIFICATIONS

Drawn	Field
GSLS	LANDSCAPE ARCH
Verified	Scale
KG	as shown
Approved	Date
KG	10-09-2024
Project Manager	Dwg. no.
KG	L-307
Project	
24-838	