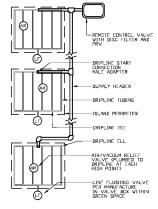


INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
 DO NOT SCALE DRAWINGS.

POP-UP SPRAY SPRINKLER

RANBIRD 1800 SERIES POP-UP SPRAY

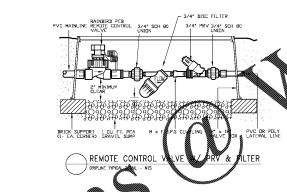
1300A-F BUBBLER

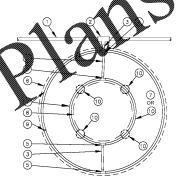


TYPICAL DRIPLINE ISLAND LAYOUT

-14° TYPICAL SPACING DRIPLINE LATERAL SPACING

DRIPLINE SUBGRADE INSTALLATION





1 PVC DRIP MANIFOLD PIPE 2 PVC SCH 40 TEE OR EL

- - - - -

PVC OR POLY EXHAUST HEADER

PVC OR POLY SUPPLY HEADER

-BLANK DRIPLINE TUBING (CENTERED ON MOUND OR BERM)

DRIPLINE TUBING LATERAL

-AIR/VACUUM RELIEF VALVE

PERIMETER LATERALS 2' TO 4' FROM EDGE

DRIPLINE CENTER FEED LAYOUT

3 % POLYETHYLENE TUBING:
RAIN BIRD XF SERIES BLANK TUBING
4 BARB CROSS INSERT FITTING:
RAIN BIRD XFD-CROSS
5 BARB TEE INSERT FITTING:
RAIN BIRD XFD-TEE
6 PROJECTED CANOPY LINE OF TREE

7 SUB-SURFACE DRIPLINE:
RAN BIRD XF SERIES DRIPLINE
POTABLE: XFS DRIPLINE
NON-POTABLE: XFS DRIPLINE
PLACE AS SHOWN (LENGTH AS REQUIRED)
ROOT BALL

 TIE DOWN STAKE:
 RAIN BIRD TDS-050 WITH BEND (QUANTITY
AS REQUIRED, SEE NOTES 2-3 BELOW) 10 ALTERNATE: USE FOUR TO EIGHT DRIP BUBBLERS ALONG THE ROOTBALL AT LOCATION 10, SPACED EQUALLY APART AND OMIT THE DRIPLINE(). ADJUST BUBBLERS PER TREE SIZE, SOIL CONDITIONS AND WATERING TIME.

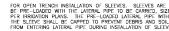
NOTES:

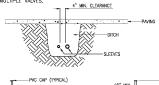
1. DISTANCE BETWEEN LATERAL RINGS AND EMITTER SPACING TO BE BASED ON SOIL TYPE,
AND TREE CANOPY. SEE DRIPLINE MANUFACTURE'S INSTALLATION GUIDE FOR
SUGGESTED SPACINGS.

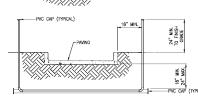
2. PLACE TE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET

13. PLACE.

3. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION. SUB-SURFACE DRIPLINE AROUND TREE

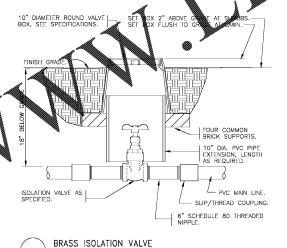


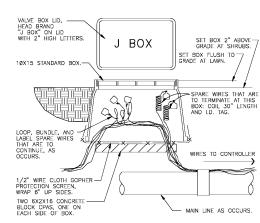




BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

SLEEVING LOADED W/LATERAL PIPE

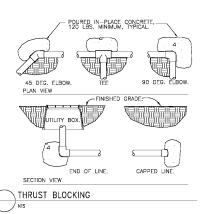




WIRE BUNDLE JUNCTION BOX

IRRIGATION GENERAL NOTES

- . NO PLANTING SHALL OCCUR UNTIL THE UNDERGROUND AUTOMATIC IRRIGATION SYSTEM IS INSTALLED AND FULLY FUNCTIONAL. THE IRRIGATION SYSTEM IS TO SUPPLY 100% COVERAGE TO ALL REQUIRED LANDSCAPE PLANT MATERIAL AND ST. AUGUSTINE TURE
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST WATERING AMOUNTS AND FREQUENCY TO ENSURE PROPER ESTABLISHMENT OF ALL PLANT MATERIAL.
- 3. THE CONTRACTOR SHALL BE FAMILIAR WITH BOTH PROPOSED AND EXISTING SITE CONDITIONS SUCH AS, UTILITIES, PLANT MATERIALS AND ARCHITECTURAL ELEMENTS IN ORDER TO AVOID CONFLICTS DURING INSTALLATION.
- 4. THE CONTRACTOR SHALL AVOID DAMAGE TO EXISTING TREES AND SHRUBS ON SITE THAT MAY OR MAY NOT BE INDICATED ON THE PLANS.
- 5. THE CONTRACTOR SHALL INSTALL THE IRRIGATION SYSTEM IN CON LL APPLICABLE STATE AND REGIONAL REGULATIONS AND CODES.
- 6. A MAXIMUM OF 50% OF THE ON-SITE GREEN SPACE N AUGUSTINE GRASS SPECIES, CONFIGURED WITH A PER AREAS SHALL BE ON SEPARATE IRRIGATION ZONES, T TEM. TURF/SODDED E PLANT MATERIAL.
- 7. DRIP LINE, BUBBLERS, SPRAY HEADS AND OMBINED ON THE SAME CONTROL VALVE CIRCUIT. SPRAY AND ROTOR COMI CHING APPLICATION RATES WITHIN
- 8. THE IRRIGATION SYSTEM SIGNS, BUILDINGS, WALLS WALL ADJUSTED TO AVOID OVERSPRAY AND RUNOFF ONTO PAVEMENT OR OTHER IMPERVIOUS SURFACES.
- ALL HAVE PROGRAM FLEXIBILITY SUCH AS REPEAT CYCLES AND HAVE A BATTERY BACK-UP SYSTEM TO RETAIN IRRIGATION SYSTEM SHALL BE EQUIPPED WITH AN OPERABLE SOIL MOISTURE SED PER THE MANUFACTURERS SPECIFICATIONS. THE CONTROLLER A PUMP START RELAY SYSTEM.
- SYSTEM SHALL BE INSTALLED TO "STANDARDS AND SPECIFICATIONS FOR TURF AND SATION SYSTEMS", LATEST EDITION, (FIFTH EDITION MINIMUM) AND ANY AMENDMENTS, BY
- IN BIRD DRIP TUBING SYSTEM COMPONENTS SHALL BE INSTALLED PER MANUFACTURERS COMMENDATIONS AND SPECIFICATIONS.
- 12 SPRAY HEAD AND ROTOR LAYOUT SHALL PROVIDE FOR PROPER HEAD TO HEAD COVERAGE NKLER SPACING SHALL NOT TO EXCEED 55% OF THE SPRINKLERS DIAMETER OF COVERAGE.
- 13. LANDSCAPE OR SODDED AREAS 4' WIDE OR LESS ARE TO BE IRRIGATED WITH DRIP LINE (MICRO RRIGATION) ONLY, THESE AREAS ARE INDICATED ON THE PLANS.
- 14. THE IRRIGATION CONTRACTOR SHALL ASCERTAIN THE IRRIGATION SYSTEM REQUIREMENTS FOR GPM AND PSI DEMAND AND DETERMINE IF THE PUMP & WELL ASSEMBLY IS CAPABLE OF MEETING THE DEMAND WITHIN THE ALLOWABLE WATERING TIMES. PUMP & WELL ASSEMBLY TO BE PER LOCAL JURISDICTIONAL REQUIREMENTS AND APPLICABLE STATE OF FLORIDA BUILDING CODES.
- 15. THE IRRIGATION CONTRACTOR SHALL COORDINATE WITH THE SITE/BUILDING CONTRACTOR TO VERIFY ANY REQUIRED ELECTRICALLY POWER FOR THE IRRIGATION SYSTEM IS AVAILABLE.
- 16. WIRE CONNECTIONS FOR ELECTRIC CONTROL VALVES ARE TO BE MADE WITH NORTHSTAR WATERPROOF SPLICE KITS (3M DBT).
- 17. MAINLINE PIPE IS TO BE INSTALLED A MINIMUM OF 18" BELOW FINISH GRADE. LATERAL LINE PIPE IS TO BE INSTALLED A MINIMUM OF 12" BELOW FINISH GRADE.
- 18. THE IRRIGATION CONTROLLER SHALL HAVE PROPER LIGHTNING PROTECTION INSTALLED PER MANUFACTURE AND APPLICABLE CODES.
- 19. CONTROL VALVE WIRES SHALL RUN UNDER THE MAINLINE PIPE.
- 20. THE MAINLINE PIPE AND SLEEVES ARE TO BE SCHEDULE 40 PVC, LATERAL LINE PIPE IS TO BE CLASS 200 PVC. IRRIGATION PIPE SHALL BE PROPERLY SIZED TO A MAXIMUM OF 5 FEET PER SECOND OF WATER VELOCITY FLOW THROUGH THE IRRIGATION SYSTEM.
- 21. NO IRRIGATION COMPONENTS, MAINLINE PIPING, LATERAL PIPING OR TRENCHING SHALL OCCUR WITHIN THE PROTECTED ZONE OF EXISTING TREES ON SITE AS INDICATED ON THE PLANS.



THRUST BLOCKS ARE REQUIRED ON ALL UNRESTRAINED, PUSH-ON GASKETED PIPE JOINTS AND FITTINGS AT DEAD ENDS, AND WHENEVER THE LINE CHANGES DIRECTION OF 30 DEGREES OR MORE. CONCRETE HAVING A COMPRESSIVE STRENGTH OF 2000 PSI OR HIGHER WILL BE SPECIFIED. THRUST BLOCKS WILL BE FORMED AGAINST SOLID, UNEXCAVATED EARTH THAT HAS BEEN UNDAWAGED BY MECHANICAL EQUIPMENT. THE SPACE BETWEEN THE PIPE AND TRENCH WALL WILL BE FILLED TO THE HEIGHT OF THE OUTSIDE DIAMETER OF THE PIPE. SIZE THRUST BLOCKS IN ACCORDANCE WITH ASAE (AMERICAN SOCIETY OF AGRICULTURAL PROMINEERS) STANDARD S. 476.2 ENGINEERS) STANDARD S-376.2.



GROU

RCE e & C

RESOU

ROBERSON Landscape Arch

44444

Pasco County Fire & Rescue Station #17

IRRIGATION NOTES & **DETAILS** 20-013

05/04/20 IR2