

DESIGN CRITERIA AND REQUIREMENTS FOR IRRIGATION

1.1 General Irrigation Criteria

- A. New irrigation system components must be fully compatible with FSU Irrigation Dep.'s currently used components and must communicate with FSU central irrigation control via telecommunications pathways.
- B. All new irrigation systems must use SCH 40 pvc piping for main and laterals. No exceptions.
- C. Provide 2 year manufacturer's warranty on irrigation system controller and all components.
- D. New irrigation system must have head to head coverage and provide separate zones for trees, shrubs, palms, groundcovers, and turf.
- E. New irrigation system must minimize overspray onto adjacent sidewalks, roadways and buildings.
- F. Locate controller for convenient access to the building main telecommunications room.
- G. New irrigation system main, must be pressure tested for leaks prior to Substantial Completion.
- H. The Contractor shall review existing irrigation systems located adjacent to new construction and shall discuss any anticipated impacts with the Grounds Department. The Contractor will be responsible for the continued operation of adjacent systems should adjustments be required to keep existing systems operational during construction. Operation of adjusted existing systems is required to be demonstrated prior to beginning and at end of construction activity. An acceptable asbuilt drawing of the landscape and irrigation construction must be submitted and approved by FSU Grounds prior to final payment being issued to the contractor.

1.2 General Landscape Design Criteria

- A. FSU Grounds will provide design review comments to the FSU project manager pertaining to grading/drainage, landscape, and irrigation. Landscape and irrigation plans shall show existing above and below grade utilities and proposed contours along with the proposed site improvements.
- B. A tree inventory, salvage, removal, and protection plan must be included in all construction document submittals and will be forwarded by the FSU project manager for review by the Grounds Dept.
- C. An approved tree protection plan must be implemented prior to any other activity on site. Refer to attachment in these guidelines.
- D. No construction activity should occur within the tree protection area. This includes: vehicular traffic, materials storage, waste discharge/storage, and other detrimental activities.
- E. Damage to existing landscape areas or trees designated to remain shall be the responsibility of the contractor. Repair shall return the damaged area to its original condition, or better. Damaged trees shall be replaced with like species of the same size. Repair/replacement of damaged materials shall be at no cost to the University.
- F. Plant material must comply with Florida Friendly Standards and be Florida Nursery Grade#1 or better. Plants must be selected to comply with the climatic conditions of the University. Prior to installation, an FSU Grounds representative will inspect the plants for compliance with University requirements for quality and condition. Plants must be warranted for 1 year.

- G. Provide new trees of minimum size = 100 gal.
- H. The contractor shall cut a minimum 4" edge between all turf and planter areas. Slope edge into planter prior to any planting activity.
- I. Planting beds must be graded to a smooth finish prior to installation of plant material as well as after the completion of the installation and prior to placement of pre-emergent and mulch. All construction debris shall be removed from the planting beds along with any other material 1" in diameter and larger prior and post planting activity. Ensure that new backfill mix is, also, free of clods and stones over 1" diameter.
- J. Apply pre-emergent weed control in all planting areas other than turf, including areas to receive mulch or rock cover. Solution shall be applied at manufacturer's recommended rates.
- K. All trenching shall be water settled to prevent future settling.
- L. No planting activity shall occur prior to the irrigation system being installed and tested.
- M. Backflow preventors, if installed by the contractor, must be tested and pass. Provide test results for review.
- N. All turf areas are to be graded to a smooth finish prior to installation of sod.