

32 80 00 IRRIGATION

A. Overview

1. Damage to existing irrigation systems must be repaired within 24 hours. If not repaired in this period, the costs of the repair will be charged to the project.

B. Materials

1. Automatic Controllers
 - b. Common wires shall be white with different colors for each controller.
 - c. Bury one additional wire from each controller to the farthest valve. This wire shall be different color from the other controller and common to all valves.
 - d. The wiring shall be buried in the same trench as the supply or lateral as far as possible.
 - e. When one or more wires are placed in a trench the wiring will be tested every 10'.
 - f. Control wire splices shall be with 3MDBY or equivalent direct bury.
 - g. Each valve shall have an individual wire to the controller. Connecting multiple valves on a single wire is not permitted.

6. Heads and Nozzles

- a. All nozzles shall be the same size, type and apply the same rate and spread of water as indicated in the landscape plans.

SAM HOUSTON STATE UNIVERSITY
DIVISION 32 EXTERIOR IMPROVEMENTS
DESIGN AND CONSTRUCTION STANDARDS

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32 0 00 PLANTING

I. General Overview

A. Planning

1. SHSU Landscape Services will be involved in the mapping process for any campus landscape.
2. All outside landscape planners and architects shall visit and observe the SHSU campus prior to any design.

B. Final Grading

1. Terrace any slopes greater than 30% or build a retaining.

C. Soil

1. Conduct multiple soil tests at each site to determine the following soil characteristics:
 - a. Plasticity Index
 - b. Soil pH
 - c. Soil Texture
 - d. % Organic Matter
 - e. All Macro and Micro Nutrients
 - f. Percolation Rate
 - g. Conductivity

2. Planting area soil backfill shall be a mixture of $\frac{3}{4}$ sandy loam and $\frac{1}{4}$ compost.

D. Chemicals and Fertilizers

1. SHSU Landscape Services must approve insecticides and herbicides before application. Submit accurate records to SHSU Landscape Services containing target organism, rate, method, applicators license number and name.

E. Plant Materials

1. All plant materials installed on campus will be subject to inspection by SHSU Landscape Services. Detailed plant material standards are in the sections for turf, ornamental planting and trees. Any plant material not complying withnd</MCID 20 (s

II. Turf

A. Materials

1. Acceptable Sod Types
 - a. St. Augustine is the primary sod for the SHSU campus.
 - b. Bermudagrass shall be installed on fields and nonirrigated areas.
 - c. Sod shall be of certified stock.
2. Sod shall be uniformly mowed at a min. of .5" and a max of 2.5".

B. Installation

1. Lay sod on slopes greater than 33% perpendicular to the slope and hold in place with staples or other approved fasteners.

III. Ornamental Plants

A. Site Preparation

1. Weed Control
 - a. No weed barriers/cloth shall be used.
2. Soil
 - a. Till six inches of pH balanced compost and any needed soil amendments into all planting areas.
3. Grading
 - a. Soil graded towards cubing/edging must have a maximum 25% slope.

IV. Trees

A. Overview

1. Use this document and the SHSU Campus Tree Care Plan in conjunction for managing all campus trees.

B. Tree Protection

1. Project Site Tree Assessment
 - a. The SHSU Arborist shall be provided with a detailed map of all proposed project activities on the site.
 - b. The SHSU Arborist will identify every tree with the potential to be impacted by the project activities.
 - c. The SHSU Arborist and other project stakeholder will determine which trees on the project site will be protected or removed.
 - d. Protected trees shall be indicated on the project plans.
 - e. Assume that every campus tree is protected under the tree protection guidelines until notified.

