The contractor shall install erosion/sedimentation controls and tree/natural area protect only site preparation work (clearing, grubbing or excavation). The placement of erosion/sedimentation controls shall be in accordance with the Environanual and the approved Erosion and Sedimentation Control Plan. The Placement of tree/natural area protective fencing shall be in accordance with the standard Notes for Tree and Natural Area Protection and the approved Grading/Tree standard Notes for Tree and Natural Area Protection and the approved Grading/Tree

A pre-construction conference shall be held on-site with the contractor, design Engineer/permit applicant and Environmental Inspector after installation of the erosion/sedimentation controls and tree/natural area protection measures and prior to beginning any site preparation work. The contractor shall notify the Planning and Development Review Department, (512)974-2278, at least three days prior to the meeting date.

Any major variation in materials or locations of controls or fences from those shown on the approved plans will require a revision and must be approved by the reviewing Engineer, Environmental Specialist or City Aborist as appropriate. Major revisions must be approved by the Planning and Development Review Department. Minor changes to be made as field revisions to the Erosion and Sedimentation Control Plan may be required by the Environmental Inspector during the course of construction to correct control inadequacies.

The control inadequacies.

The control inadequacies shall immediately more functioning property.

The controls must be approved that they are functioning property.

The controls must be shall immediately more functioning property.

From September 15 to March 1, seeding shall be with cool season cover crops (Wheat at 0.5 pounds per 1000 SF, Oats at 0.5 pounds per 1000 SF, Cereal Rye Grain at 0.5 pounds per 1000 SF) with a total rate of 1.5 pounds per 1000 SF. Cool season cover crops are not permanent erosion control.

From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pounds per 1000 SF.

A. Fertilizer shall be water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of ½ pound per 1000 SF.

B. Hydromulch shall comply with Table 1, below.
C. Temporary erosion control shall be acceptable when the grass has grown at least 1½ inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.
D. When required, native grass seedling shall comply with requirements of the City of Austin Environmental Criteria Manual.
1: Hydromulching for Temporary Vegetative Stabilization

Moderate slopes; from flat to 3:1

1500 to 200 lbs per acre

<u>-</u> !>

<u>-</u>

Hydromulch shall comply with Table 2, below.

The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil, but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at daily intervals (minimum) during the first two months. Rainfall occurrences of ½ inch or more shall postpone the watering schedule for one week. Permanent erosion control shall be acceptable when the grass has grown at least 1½ inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.

When required, native grass seeding shall comply with requirement of the City of Austin Environmental Criteria Manual.

Tomulching for Permanent Vegetative Stabilization

80% Organic defibrated fibers 10% Tackfier Up to 12 months

for plan

sible for erosion/sedimentation control maintenance:
Phone # (512) 329-6640

nance: Phone # (5 | 2) 329-6640

contractor is required to inspect the controls and fences at weekly intervals and after significant contractor is required to inspect the controls and fences at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches.

Prior to final acceptance by the City, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and revegetated. All land cleaning debns shall be disposed of in approved spoil disposal sites.

All work must stop if a void in the rock substrate is discovered which is; one square foot in total area; blows air from within the substrate and/or consistently receives water during any rain event. At this time it is the responsibility of the Project Manager to immediately contact a City of Austin Temporary and Permanent Erosion Control: All disturbed areas shall be restored as noted below.

A. All disturbed areas to be revegetated are required to place a minimum of six (6) inches of topsoil [see Standard Specification Item No. 60 I S.3(A)]. Do not add topsoil within the critical root zone of existing trees. The topsoil shall be composed of 3 parts of soil mixed with I part compost, by volume. The compost shall be Dillo Dirt or an equal approved by the Engineer, or designated representative. The approved equal, if used, shall meet the definition of compost (as meets the following specification Item 161). The soil shall be locally available native soil that meets the following specification item (61). The soil shall be locally available native soil that meets the following criteria:

• Shall be free of trash, weeds, deletenous matenals, rocks, and debns.

• Obal texture class to be Loam, Sandy Clay Loam, or Sandy Loam in accord FERMANENT VEGETATIVE STABLIZATION

1. From September 15 to March 1, seeding is considered to be temporary stabilization only. If cool season cover crops exist where permanent vegetative stabilization is desired, the grasses shall mowed to a height of less than one-half ½) inch and the area shall be re-seeded in accordance with 2. below.

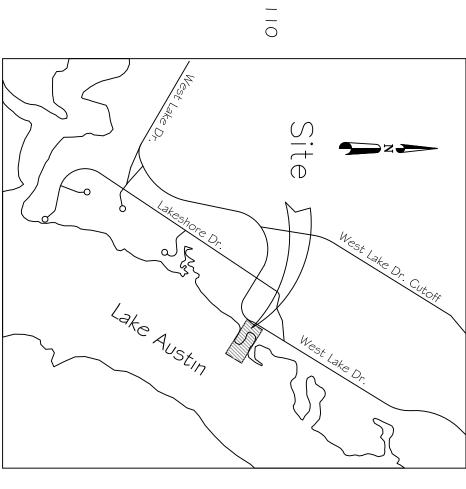
2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pound per 1000 SF with a purity of 95% with 85% germination. Bermuda grass is a warm season grass and is considered permanent erosion control.

A. Fertilizer shall be a water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of ½ pound per 1000 SF. 70% or greater Wood/Straw 30% or less Paper or Natural Fibers 0-3 months

ATION of FLOATING WAVE ATTENUATION SYSTEM

OWNER: LAKE AUSTIN MARINA I L P 22 | 5 WESTLAKE DRIVE AUSTIN, TEXAS 78732 (5 | 2) 329-6640

BRUCE S. AUPPERLE, P.E. AUPPERLE COMPANY 2219 WESTLAKE DR. STE. I AUSTIN, TEXAS 78746 PHONE (512) 422-7838 FAX (512) 329-8241



MAPSCO GRID A3 I

temporary fencing.

Protective fences shall be erected according to City of Austin Standards for Tree Protection.

Protective fences shall be installed prior to the start of any site preparation work (clearing, grubbing or grading), and shall be maintained throughout all phases of the construction project.

Erosion and sedimentation control barriers shall be installed or maintained in a manner which does not result in soil build-up within tree drip lines.

Protective fences shall surround the trees or group of trees, and will be located at the outermost limit of branches (drip line), for natural areas, protective fences shall follow the Limit of Construction line, in order to prevent the following:

A. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or

nges (greater than 6 inches cut or fill), or trenching not

in 4 inches shall be permitted within the drip-line of trees tree. 25, vehicular traffic and equipment shall take place hefore



 $\tilde{\boldsymbol{\omega}} \ \dot{\boldsymbol{\nu}}$

STANDARD SEQUENCE OF CONSTRUCTION

Appendix: P-4 (3/28/2011)

Itemporary erosion and sedimentation controls are to be installed as indicated on the approved site plan. Install tree protection and initiate tree mitigation measures (as needed).

Install natural area protection and initiate tree mitigation measures (as needed).

Install natural area protection and initiate tree mitigation measures (as needed).

The Environmental Project Manager or Site Supervisor must contact the Planning & Development Review Department, Environmental Inspection, at (512)974-2278, 72 hours prior to the scheduled date of the required on-site preconstruction meeting.

Hold pre-construction meeting with environmental inspector.

Temporary erosion and sedimentation controls will be revised, if needed, to comply with City Inspectors' directives, and revised construction schedule relative to the erosion plan.

Begin wave attenuation installation activities. Construction access from water.

Complete construction and start revegetation of the site and installation of landscaping (as needed).

Complete construction and start revegetation of the site and installation of landscaping (as needed).

Upon completion of the site construction and revegetation of a project site, the design engineer shall submit an engineer's letter of concurrence to the Planning & Development Review Department indicating that construction, including revegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate City Inspector.

Detain final inspection has been conducted by the City Inspector and with approval from the City Inspector, remove the temporary erosion and sedimentation controls and complete any necessary final revegetation resoluting from removal of the controls.

GENERAL NOTES:

This project is not located over the Edwards Aquifer recharge zone.

Deed restrictions or restrictive covenants are applicable to this property.

A business or living quarter may not be constructed on a pier or similar structure extending into or above Lake Austin, except under a license agreement approved by the council.

Contractor to verify utility locations and ground and flow line elevations before construction.

Environmental Inspector has the authority to add and/or modify erosion/sedimentation controls on site to keep project in-compliance with the City of Austin Rules and Regulations.

Approval of these plans by the City of Austin indicates compliance with applicable City regulations only.

Approval by other government entities may be required prior to the start of construction. The applicant is responsible for determining what additional approvals may be necessary.

Site Plan Release Notes:

"Illowing site plan release notes are included in accordance with the City of Austin's request.

All improvements shall be made in accordance with the city of Austin's request.

Will require site plan accordance with the city of Austin's request.

All improvements shall be made in accordance with the released site plan. Any additional improvements will require site plan amendment and approval of the Planning & Development Review Department.

All signs must comply with requirements of the Land Development Code. (Section 13-2, Article VII)

Additional electric easements may be required at a later date.

All existing structures shown to be removed will require a demolition permit from the City of Austin Planning & Development Review Department.

A development permit must be issued prior to an application for building permit for non-consolidated or Planning Commission approved site plans.

For driveway construction: The owner is responsible for all costs for relocation of, or damage to utilities. For construction within the right-of-way, a concrete permit is required.

For the building permit, a signed and sealed letter shall be submitted to the City of Austin, per the Land Development Code, 25-12-3 1612.4, certifying that the structure is in accordance with ASCE 24, Flood Resistant Design and Construction.

 \mathcal{O} _ O Z TOTAL #
SHEETS IN
PLAN SET 70 \Box 0

Z \mathcal{O}

O APPROVAL DATE DATE

BRUCE S. AUPPERLE

52027

WATERSHED watershed an SHED STATUS: Ted and shall be ment Code.

2215 Westlake Dr , 2 \$ 3 St.

RELATED PERMIT NUMBERS: C14-97-0009, SP-01-0415D

Plan T Sheet

Approved

SP-2011-0283DS Permit Number

roject Duration Date

2215 WESTLAKE DRIVE

AUPPERLE COMPANY

DATE REVISION APPV'D

Engineering, Planning & Development Services 10088 Circleview Drive, Austin, Texas 78733 512 329-8241

COVER SHEET & NOTES

Texas Board Of Professional Engineers Registration Number F-1994

2215 WESTLAKE DRIVE - SP-2011-0283DS

All responsibility for the adequacy of these plans remain with the engineer who prepared them approving these plans, the City of Austin must rely upon the adequacy of the work of the desi