FLOOD PLAIN NOTE:

A portion of the site is located in the 100 year flood plain in Zone 'X" according to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel No. 48453C0410H, Revised September 26, 2008.

The 100 year flood plain elevation for this site as per City of Austin is 509.81.

SEQUENCE OF CONSTRUCTION Appendix P-4:

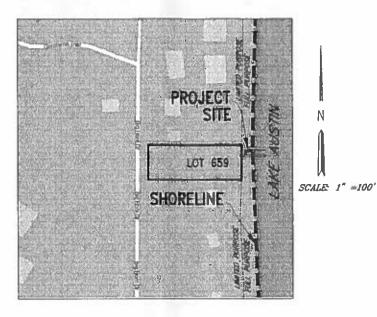
- 1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved site plan. Install tree protection and initiate tree mitigation measures.
- 2. The Environmental Project Manager or Site Supervisor must contact the Watershed Protection Department, Environmental Inspection, at 512-974-2278, 72 hours prior to the scheduled date of the required on-site preconstruction meeting.
- 3. The Environmental Project Manager, and/or Site Supervisor, and/or Designated Responsible Party, and the General Contractor will follow erosion control plan. Temporary erosion and sedimentation controls will be revised, if needed, to comply with City Inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion plan.
- 4. All new material will be delivered through work boat/barge and or landough grade the dock area on land.
- 5. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the approved site plan.
- 6. Begin site clearing/construction (or demolition) activities.
- 7. Complete construction of boat dock in accordance with the approved site plan and start revegetation of the site.
- 8. 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 Watershed Protection and 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.
- 9. After a 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 resulting from removal of the controls.

SITE PLAN RELEASE NOTES:

- 1. All improvements shall be made in accordance with the released site plan.
- 2. Any additional improvements will require site plan correction and approval.
- 3. Approval of the site plan does not include building and fire code approval nor building permit approval.
- 4. Additional electrical easements may be required at a later date.
- 5. All existing structures shown to be removed will require a demolition will require a demolition permit from the City of Austin Planning and Development Review Department.
- 6. Prior to issuance of building permit applicant will render a letter sealed by licensed professional stating that all buildings in the floodplain (ie boat docks) adhere to the provision of ASCE 24-Flood Resistant design and
- 7. Some work on this project is to be accomplished via barge and some by land, spoils and staging area shown on Site Plan sheet.
- 8. A business or living quarter may not be constructed on a pier or similar structure extending into Lake Austin except under a license agreement approved by city council. LDC 25-2-1176(H)
- 9. Approval of these plans by the City of Austin indicates compliance with applicable City regulations only. Approval by other governmental entities may be required prior to the start of construction. The applicant is responsible for determining what additional approvals may be necessary.

		R	EVISIONS	/ CORRE	CTTONS	
NO.	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	TOTAL # SHEITS IN PLAN SET	MET CHANGE IMP. COVER (SQ. FT.)	TOTAL SITE IMP. COVER (SQ. FT.)/ [R]	DATE. IMAGED
<u> </u>						
-						
	-					

ILES BOAT DOCK 2415 BIG HORN DRIVE AUSTIN, TEXAS 78732



LOCATION MAP (N.T.S.)

MAPSCO : 491S

SITE

Existing Shoreline Length: 75.02 L.F.

Proposed Dock Width 15'

SHEET INDEX

- 1. COVER SHEET
- GENERAL NOTES SHEET
- SITE PLAN AND EROSION CONTROL PLAN
- OVERALL HARBOR AREA SITE PLAN
- ARCHITECTURAL SHEET

SUBMITAL DATE: 6/6/2014

RELATED CASE # C7A-82-002 C8-69-027

SP-2014-0212DS Development Permit #

THE DOCK IS AN ACCESSORY USE TO THE PRINCIPAL SINGLE FAMILY RESIDENCE AT 2415 BIG HORN DRIVE PERMIT NUMBER 2014-072967-BP

Planning and Development Review Department Date

ENGINEERS

CONSULTING

ADVANCED



BOAT DOCK HORN

SHEET NO.

General Notes: Dock Contractor: ---

Clint Cunningham What's up Dock, Inc.

P.O. Box 1430 Dripping Springs, Tx 78620

512-940-0185

Address: ---

Denise L. Iles and Thomas E. Iles

7605 Rockpoint Cir Austin, Texas 78731

Legal Description:

Lot 659 Apache Shores Sec 2

Recorded in Volume 48, page 58, T.C.P.R.

Warranty Deed Doc # 2013019705TR

-2415 Big Horn Drive Lot Address:

Austin, Texas 78734

Watershed: Lake Austin

Watershed Classification: Water Supply Rural

Zoning:

SF-2

APPROVAL STAMP

APPENDIX P-1 - EROSION CONTROL NOTES

- he contractor shall tratait expectative/dimension; contrals and treatment area protective matry prior to any also preparation work (clearing, grabbing as embession).
- fevering prior to dry side properations vorts (clienting, gradiating or entirely case).

 2. The pleasured of evolute/polimentations controls shall be in owner-laws with the Environmental Criticus Menual and the approved Envision and Redimentation Central Plans.

 The COA EEC Plans shall be consulted and used see the basis for a TPCOE required disNPPP if a disNPPP is required, it shall be evaluable for review by the City of Austin Environmental Impaction at all times during contributions, inclining at the Phe-Construction meeting. The checked telecor contains the basis elements that shall be reviewed for permit approval. By COA EV Plans Positiveness as well as COA EV.

 - Han about relambed to the City of Assists MAST down the following:

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 - ten the boundary of each Mid-F on your olly propiet.
- The Placement of treahetural area protective fencing shall be in incoordance with the City of Austin standard Notes for Tree and Natural Area Protection and the approved Grading/Tree and Natural Area Plan.
- A pre-construction conference shall be teld on-ells with the contractor, design Engineer/panel applicant and Environmental Impactor after Imitalitation of the erostor/reconstruction controls and treahstural areas protection measures and prior to bugsiming any size preparation votic. The owners or commit representative shall notify the Plearway and Devotopment Review Department, 974-2278, at seast three days prior to the meeting clinic. COA approved EEC Pleas and TPDES SWPPP (if respired) should be removed by COA EV Inspector at this time.
- Any simply whealton in messeles or locations of controls or fences from those shown on the approved primar will require a revision and must be approved by the revening Engineer, Environmental Speciation or CDy Aborst se appropriets. Major revisions must be approved by the Planning and Development, Review Department. Minor changes to be made se field revisions at the Environmental financiary and and Sedimentation. Control Plan may be required by the Environmental Impactor dusing the course of construction to correct control inedequalities.
- Extraordinate respector saving the souther or contribution to correct control inadequatede.

 This contractor is required to provide a certified inapactor with either a Certified Professional in Erceion and Sectiment Control (CPESC), Certified Erceion, Sediment and Stormweller-Inspector (CESSW) or Certified Inspector of Sedimentation and Erceion Controls (CPSC) certification is inspect the certified interest and selection and Erceion Certification is inspect that certified and the application rainfall events to these the certified per in functioning property. The present(s) responsible for material arrange of countries and forces alored instructed either invited with most personal property repairs to clarify and the certified instructions of certified and forces along the instruction of the property of the certified property.
- 7. Prior to that acceptance by the City, hauf roads and waterway crossings constructed for temporary contractor access must be removed, accumulated seddnest removed from the waterway and the size restored to the original guide and revogetated. All land cleaning claims shall be deposed of in approved spoil deposed elter.
- All work must step if a void in the rock substates is discovered which is, one square host in total erec, blass on from within the substate and/or consistently receives wetsir during any can event. At this time it is the responsibility of the Project Menager to Immediately contact a City of Justice Environmental Impediate for further investigation.
- 9. Temporary and Permanent Eroson Control. All deturbed areas shell be restored as noted
- A All debusined errees to be revegested are required to place a minimum of six (8) linches of logical base Standard Specification Items No. 6018.3(A)]. Do not add topsoil within the critical root zone of existing trees. The logical shall be correposed of 4 parts of soil mised with 1 part correpost, by volume. The compost shall meet the dishertion of compost an defined by TXLOT Specification from 161. The and shall be locally available native soil that meet the following specification::Shall be free of treet, weeds, deletenous materials, ractas, and debate.
- 100% shall pass through a 1 5-inch (35-mm) screen
- Stall to be a loarny material that meets the requirements of the table below in accordance with the USDA teaturel thangle. Sed known locally se "rad direct" in not an allowable and "Farthand composition shall meet the following criteria:

Texturel Class	Minimum	Mastesies
Cley	2%	90%
3ft	10%	50%
Sand	15%	67%

- At owner/engineer may propose use of orests selvaged topsel which does not meet the sof tenture deem required shows by providing a sof enabytes and a written statement form is qualified professional in soils, tendencepe activiticative or agreemy indicating the orests topsed will provide an equivalent provid media and apporting what, if any, sail amendments are required.
- Soil arrundments stall be worked into the existing create topsoil with a disc or tilled to create a well-blended material.

Topsoil ealwayed from the existing site may often be used, but it should meet the some attingents as set forth in these standards.

The vegetative stabilization of areas detacted by construction shall be as follows

TEMPORARY VEGETATIVE STARS IZATION:

- From September 15 to March 1, seeding shell be with occl sesson ower crops (Wheat at 0.5 pounds per (900 AF), Cate at 8.5 pounds per 1000 8F, Carrell Rye Grenn at 0.5 pounds per 1000 8F) with a total rate of 1.5 pounds per 1000 8F. Carell sesson cover crops are not permisered erosen control.
- From March 2 to Beptersber 14, weeding shall be with hulled Bermude et a rate of 1 pounds per 1000 BF...
- A. Fertilizer shall be water entable with an analysis of 18-15-15 to be applied once at playing and ance claring the period of establishment at a rate of 1/2 pound per 1000 SF.
- B Hydromatch shall comply with Table 1, below.
- C. Temporary ensuin control shall be acceptable when the gross has grown at least 1 1/2 inches high with 95% coverage, provided no bare upots larger than 10
- When required, native gross execting shall comply with requirements of the City of Austin Environmental Oritoria Manual.

Material	Description	Languitty	Typical Applications	Application Flates
100% or any bland of wood, cellulose, situr, endfor collon plant material (uncept no mulch shall exceed 30% paper)	70% or greelet Wood/Straw 30% or lees Paper or Helses Fibers	8-3 months	Mederate stopes, from Ret to 3 1	1500 to 2000 lbs per acre

PERMANENT VEGETATIVE STABILIZATION:

- 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
 dealered, the grasses shall be moved to a helpit of less than one-helf (1/2) inch and the
 area shall be re-seeded in accordance with 2 below.
- 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 assaun grass and is considered permanent erosion control.
- A. Fartifizer 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 1/2 pound per
- B. Hydromulch shall comply with Table 2, below.
- C. 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 air inches. The irrigation shall occur at dely intervals (misinamy) during the first two months. Related occurrences of ½ inch or more shall postpone the watering schedule for one week.
- D. Permanent erosion control shall be acceptable when the grass has grown at least 114 inches high with 95% coverage, provided no bare epots larger than 16 square
- E. When required, native gress seeding shall comply with requirements of the City of Austin Environmental Criteria Manual.

Table 2: Hydromulching for Permanent Vegetative Substitution

Material	Description	Longevity	Typical Applications	Application Rates
Bonded Fiber Matrix (BFM)	60% Organic defibrated fibers 10% Tackifier	6 months	On alopes up to 2:1 and erosive soil conditions	2500 to 4000 lbs per acre (see manufacturers recommendations)
Fiber Reinforced Matrix (FRM)	65% Organic defibrated fibers 25% Reinforcing Fibers or less 10% Tackifler	Up to 12 months	On slopes up to 1:1 and erosive soll conditions	3000 to 4500 the per scre (see menufacturers recommendations)

10. Developer Information:

Owner Denise L. Isles and Thomas E. Isles

Phone # (512) 914-9939

Address 7605 Rockpoint Circle, Austin, Texas 78731

Owner's representative responsible for plan alterations:
Advanced Consulting Engineers Phone # (512) 444-1739

Person or firm responsible for erosion/sedimentation control maintenance:

General Contractor Phone 8

Person or firm responsible for tree/natural area protection Maintenance:

General Contractor

The contractor shall not dispose of surplus excavated material from the site without notifying the Planning and Development Review Department at 974-2278 at least 48 hours prior with the location and a copy of the permit issued to receive the material.

___Phone #___

APPENDIX P-6
REMEDIAL TREE CARE NUTES
ACRATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS
FOR TREES WITHIN CONSTRUCTION AREAS
AS a component of an effective reason at a, preserved trees within the
Lovieromental Criter new require soil erration and supplemental
nutrients. Soil and/or foliar manipsis should be used to determine the
need for supplemental nutrients. The City Arborist may require these
analyses as part of a comprehensive tree care plan. Soil phi shall be
considered when determining the fertilization composition as soil phi
influences the tree's ability to uptake nutrients from the soil. If
analyses indicate the need for supplemental nutrients, then
humate/nutrient soil ultions with hypocrhizae components are highly
recommended. In addition, soil analysis may be receded to incrove soil
health. Naturials and nebusicals to be approved by the City Arborist.
Pre-construction treatment should be applied in the appropriation with the
City Arborist.
Pre-construction treatment should be applied in the appropriate sensor,
ideally the season preceding the proposed construction. Hinhealty, areas
to be treated include the entire critical root zone of trees as depicted
on the City approved plans. Treatment should include, but not limited to,
fertilization, soil treatment, suicking, and proper pruning.
Post-construction treatment should occur during final revegetation or a
determined by a qualified arborist after construction. Construction
activities often result in a reduction in soil neares and nicro pores and
increase in soil balls because the city Arborist. The proposed
on the restored as approved by the City Arborist. The proposed
rutrient nix specifications and soil and/or foliar analysis results need
to be provided to and approved by the City Arborist. The proposed
rutrient nix specifications and soil and/or foliar analysis. Feature is needed
to by other nextwois as approved by the City Arborist. The proposed
rutrient nix specifications and soil and/or foliar analysis results need
to be provided to and approved

Special Construction Techniques ECH 3. 5. 4030

Prior to excavation within tree driptines or the renoval of trees adjacent to other trees that are to remain, make a clean cut between the disturbed and undisturbed root zones with a rock saw or Sinitar equipment to nimite root damage.

In chilical root zone areas that cannot be protected during construction with fercing and where heavy vehicular traffic is anticipated, cover those areas with a minium of 12 inches of enganic naulch to animinize soil compaction. In areas with high soil plasticity Geotextile fabric, per standard specification 620s, braude be placed under the malch to prevent excessive mining of the soil and muich, Additionally, naterial such as plyvood and netal sheets, could be required by the City Arborist to minimize root impacts from heavy equipment. Date the project is completed, at Insteriols should be removed, and the mulch should be reduced to a depth of 3 inches.

Perform all grading within critical root zone areas by hand or with shall equipment to minimize root denage.

Vater all trees must heavily impacted by construction activities deeply once a week during periods of hot, dry weather. Spray tree crosss with eater periodically to reduce dust accumulation on the leaves. When installing concrete adjacent to the root zone of a tree, use a plastic vapor barrier behind the concrete to prohibit leaching of line into the

APPENDIX P-2-CITY DE AUSTIN STANDARD HOTES FOR TREE AND NATURAL AREA PROTECTION

 All trees and natural areas shown on plan to be preserved shall be protected during construction with temporary fencing. 2. Protective fences shall be erected according to City of Austin Standards for Tree Protection.

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

Erosion and sedimentation control berniers shall be installed or neintained in a marrier 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 (conted at the outermost limit of branches (drip line), for matural sizes, protective fences shall follow the Limit of Construction line, in order to prevent the following:

A. Sail compection in the root zone area resulting from vehicular traffic or storage of equipment or naterials;

B. Root zone disturbances due to grade changes (greater than 6 inches cut on fill), or trenching not reviewed and authorized by the City Abortsti C. Younds to exposed roots, trunk or linbs by mechanical equipment)

B. Ditter activities detrimental to trees such as chemical storage, cement truck Eleaning, and Fires. 6. Exceptions to installing fences at tree drip lines may be permitted in the following comes:

A where there is to be an approved grade change, impermeable paving surface, these well, or other such site development, erect the fence approximately 2 to 4 feet beyond the area disturbed.

B. Where permeable paving is to be installed within a tree's only line, erect the fence at the outer limits of the permeable paving ones (prior to site grading so that this area is graded separately prior to paving installation to minimized root damage);

C. Where trees are close to proposed buildings, erect the fence to allow 6 to 10 feet of work space between the fence and the buildings.

D. Where there are severe space constraints due to tract size, or other special requirements, contact the City Arborist at 974-1875 to discuss atternatives.

Special Nate: For the protection of natural areas, no exceptions to installing fences at the Limit of Construction line will be permitted. 7. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 ft (or to the limits of lower branching) in addition to the reduced fencing provided.

Trees approved for renoval shall be removed in a number which does not impact trees to be preserved.

9. Any mosts exposed by construction activity shall be pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas with good quality top soil as soon as possible. If exposed root areas over not backfilled within 2 days, over them with organic material in a manuse which reduces soil temperature and minimizes water loss due to exponsion.

 Any trenching required for the installation of landscape irrigation shall be placed as for from existing tree trunks as possible. No landscape topsoil dressing preater than 4 inches shall be permitted within the drip line of trees. No soil is permitted on the root flore of any tree.

Pruning to provide clearance for structures, vehicular traffic and equipment shall take place before damage occurs (ripping of branches, etc.).

13. All finished pruning shall be done occording to recognized, opproved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees evailable on request from the City Arborist). Beviations from the above notes may be considered ordinance violations if there is substantial non-compliance or if a tree sustains

34

CHBCAED DRAWN

BY

ENGINEERS

1 E

8

DATE

Mo.: E S

ngineering Consultants, P.
624 BKE CAVE NOAD, SUITS.
AUSTIN, TELUS. 78746
(512) 444–1739

CONSULTING

Chil





EETSHIDRIVE TESHORN NO BIG GENERAL 2415

DOCK

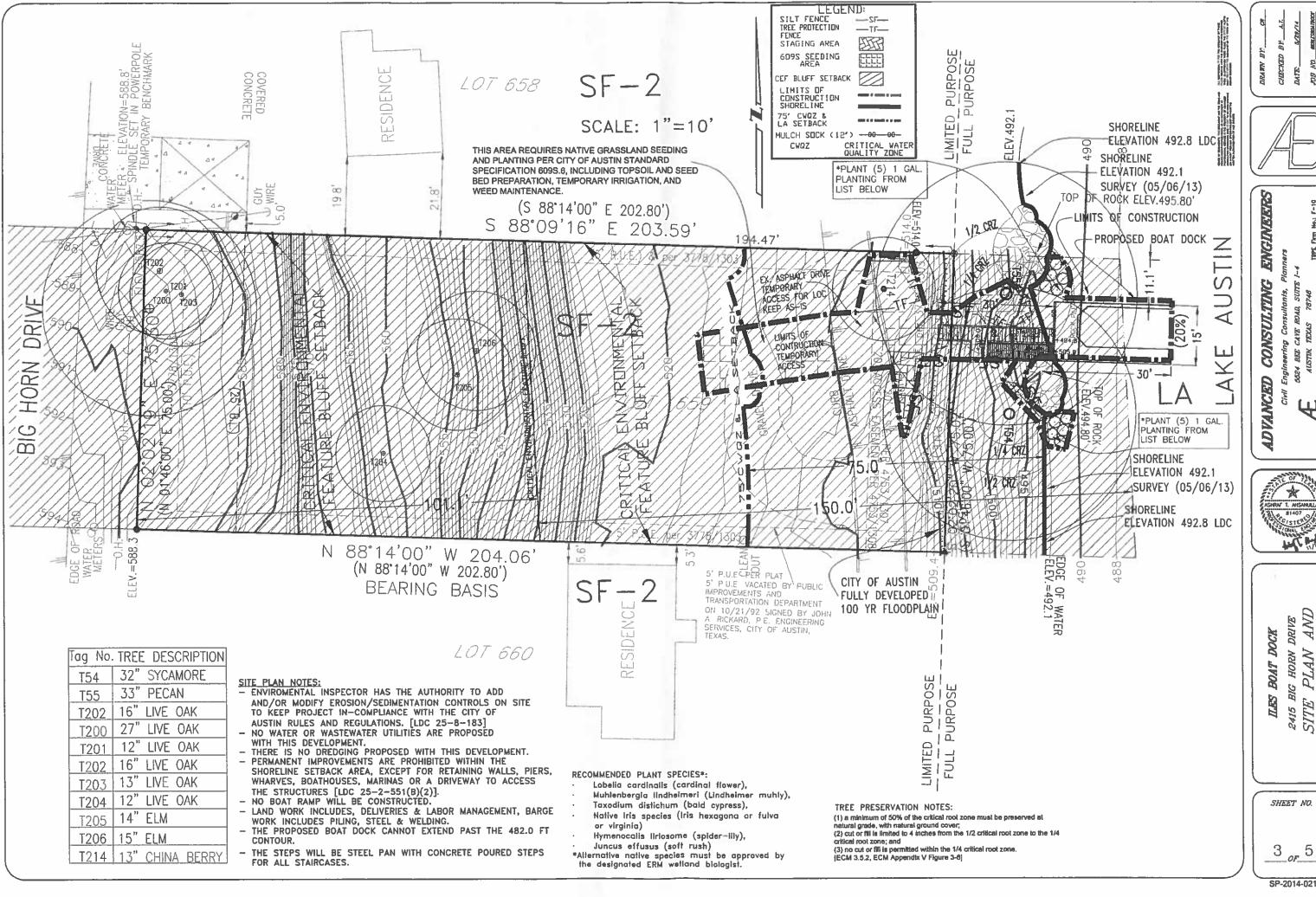
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SP-2014-0212.DS

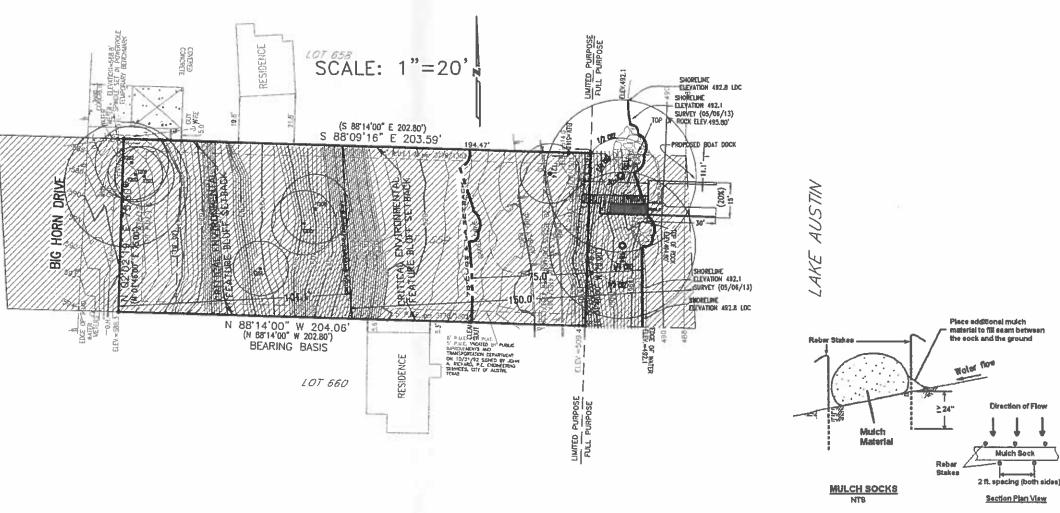


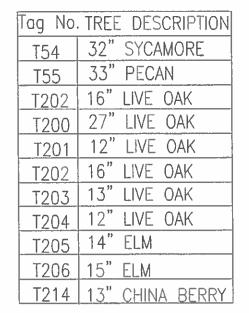
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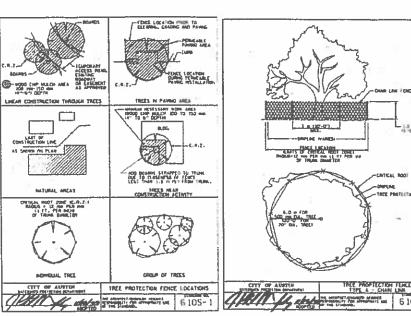




CWQZ= CRITICAL WATER QUALITY ZONE

LEGI	END:
SILT FENCE	—-SF—
TREE PROTECTION	—TF—
FENCE	(805.34)
STAGING AREA	HILL
609S SEEDING	ECCC
AREA	
	177
CEF BLUFF SETBA	CK
LIMITS OF	
CONSTRUCTION	
SHORELINE	
75' CWQZ &	
LA SETBACK	
MULCH SOCK (18	2°) -0000-
CWQZ	CRITICAL WATE
91144	QUALITY ZONE

IRON ROD WITH CAP FOUND CALCULATED POINT BENCHMARK WROUGHT IRON FENCE ELECTRIC MANHOLE LIGHT POLE WATER METER WATER VALVE WASTEWATER VALVE GAS VALVE GAS VALVE
TELEPHONE RISER
CATV RISER
ENVIRONMENTAL CAGE
ASPHALT SURFACE
RECORD INFORMATION



ENGINEERS

ADVANCED CONSULTING

*

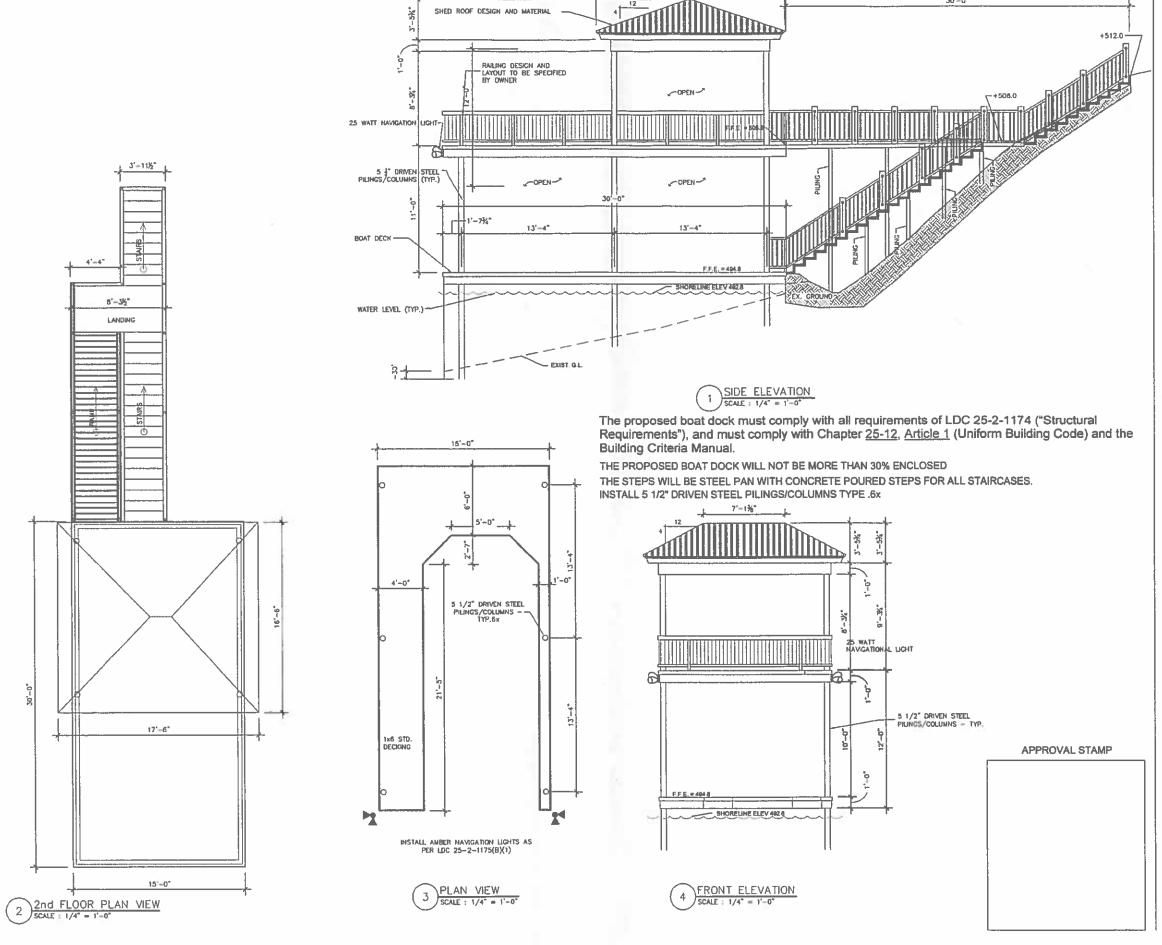
SITEHORN DRIVE HARBOR AREA 2415 BIG

PLAN

+_or_5

SHEET NO.

SP-2014-0212DS



WHAT'S UP...DOCK

P.O. BOX 1430 **DRIPPING SPRINGS,TX** 78620

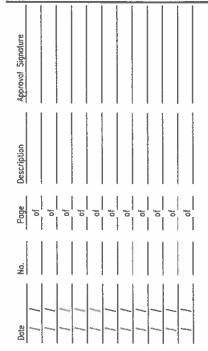
> TEL: 512. 940. 0185 TEL: 512. 844. 2434

> > **BIG HORN DRIVE**

2415

AUSTIN, TEXAS

DOCK BOAT ES



SHEET NO. 5 OF 5

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SP-2014-0212DS