Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with 30 TAC 213.

Administrative Review

1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

   To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: http://www.tceq.texas.gov/field/eapp.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

   An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: Hampton Branch Library at Oak Hill (previously known as Oak Hill Branch Library)						**2. Regulated Entity No.: 102137817**			
3. Customer Name: City of Austin						**4. Customer No.: 600135198**			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception ✓	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP ✓	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential ✓			**8. Site (acres):**		12	
9. Application Fee:	$500		**10. Permanent BMP(s):**			Sedimentation/Filtration			
11. SCS (Linear Ft.):	NA		**12. AST/UST (No. Tanks):**			0			
13. County:	Travis		**14. Watershed:**			Williamson Creek			

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	___
Region (1 req.)	___	___	___
County(ies)	___	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	_X_Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	_X_Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Owen Orozco
Print Name of Customer/Authorized Agent 7/19/2024 Signature of Customer/Authorized Agent Date

FOR TCEQ INTERNAL USE ONLY Date Administratively Complete:				
Date(s)Reviewed:		Date Administratively Complete:		
Received From:		Correct Number of Copies:		
Received By:		Distribution Date:		
EAPP File Number:		Complex:		
Admin. Review(s) (No.):		No. AR Rounds:		
Delinquent Fees (Y/N):		Review Time Spent:		
Lat./Long. Verified:		SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):			Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

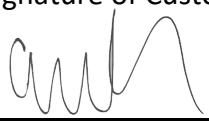
Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Owen Orozco

Date: 07/19/2024

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Hampton Branch Library at Oak Hill
2. County: TRAVIS
3. Stream Basin: Williamson Creek
4. Groundwater Conservation District (If applicable): Barton Springs/Edwards Aquifer
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

   ☐ WPAP
   ☐ SCS
   ☐ Modification
   ☐ AST
   ☐ UST
   ☒ Exception Request

7. Customer (Applicant):

   Contact Person: James Foster
   Entity: City of Austin
   Mailing Address: _____
   City, State: Austin, TX Zip: _____
   Telephone: _____ FAX: N/A
   Email Address: james.foster2@austintexas.gov

8. Agent/Representative (If any):

   Contact Person: Owen Orozco
   Entity: Halff Associates, Inc.
   Mailing Address: 5113 Southwest Pkwy, Suite 140
   City, State: Austin, TX Zip: 78735
   Telephone: 737-309-4739 FAX: N/A
   Email Address: oorozco@halff.com

9. Project Location:

   ☒ The project site is located inside the city limits of Austin.
   ☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
   ☐ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

    Along the south side of Convict Hill Road at the intersection of Convict Hill and Woodcreek Road

11. ☒ **Attachment A – Road Map**. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map**. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

    ☒ Project site boundaries.
    ☒ USGS Quadrangle Name(s).
    ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
    ☒ Drainage path from the project site to the boundary of the Recharge Zone.

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned**. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☐ Survey staking will be completed by this date: _____

14. ☒ **Attachment C – Project Description**. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

    ☒ Area of the site
    ☒ Offsite areas
    ☒ Impervious cover
    ☒ Permanent BMP(s)
    ☒ Proposed site use
    ☒ Site history
    ☒ Previous development
    ☒ Area(s) to be demolished

15. Existing project site conditions are noted below:

    ☒ Existing commercial site
    ☐ Existing industrial site
    ☐ Existing residential site
    ☐ Existing paved and/or unpaved roads
    ☐ Undeveloped (Cleared)
    ☐ Undeveloped (Undisturbed/Uncleared)
    ☐ Other: _____

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

    (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);

    (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;

    (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;

    (4) The use of sewage holding tanks as parts of organized collection systems; and

    (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

    (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

    (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The fee for the plan(s) is based on:

- ☐ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- ☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- ☐ A request for an extension to a previously approved plan.

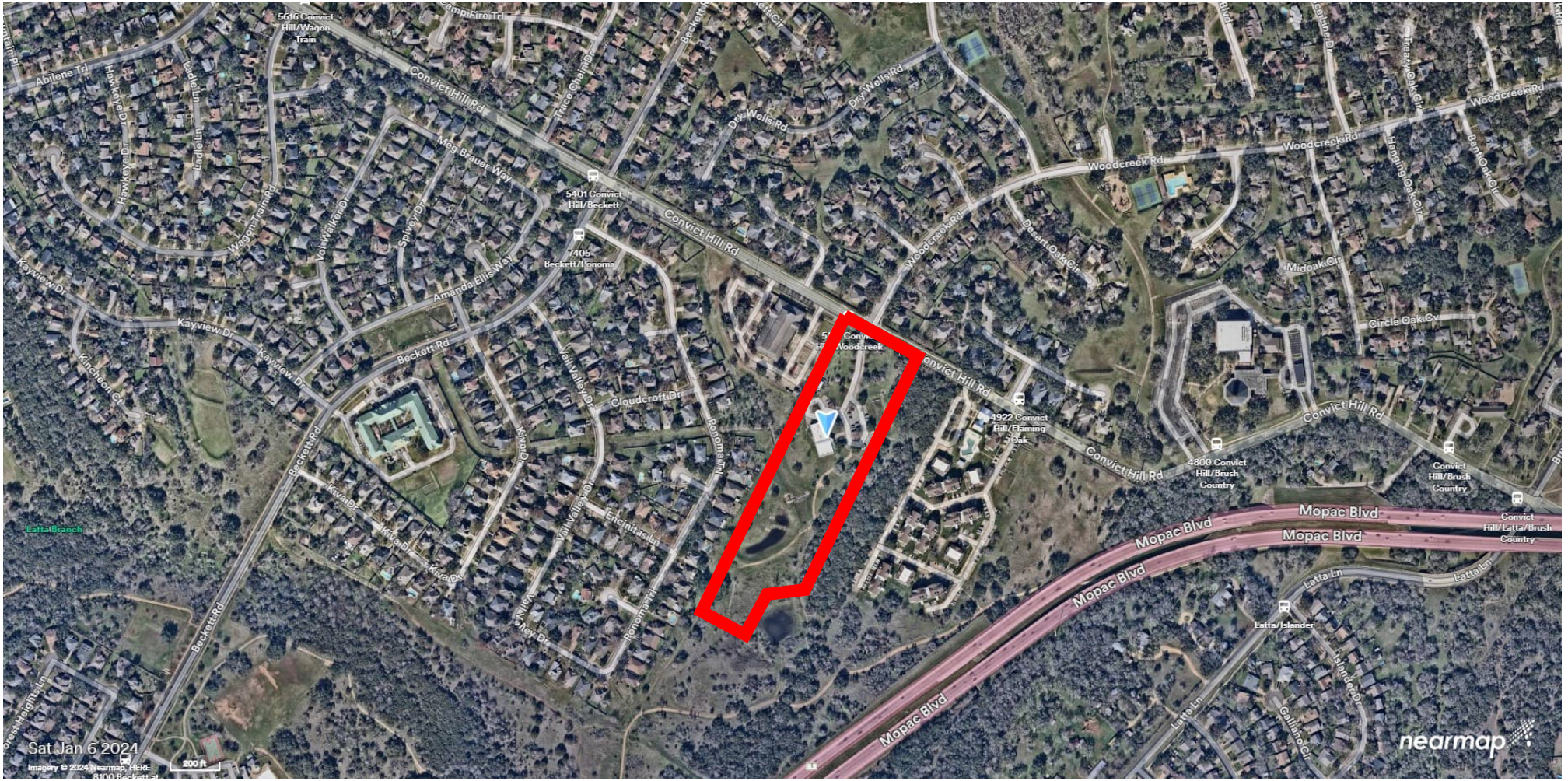
19. ☐ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- ☐ TCEQ cashier
- ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

20. ☐ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

21. ☐ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

North


5616 Convict Hill/Wagon Train
5401 Convict Hill/Beckett
7405 Beckett/Pinoma
4922 Convict Hill/Flaming Oak
4800 Convict Hill/Brush Country
Convict Hill/Brush Country
Convict Hill/Latta/Brush Country
Latta/Islander
Convict Hill Rd
Beckett Rd
Woodcreek Rd
Dry Wells Rd
Mopac Blvd
Latta Ln
Sat Jan 6 2024
Imagery © 2024 Nearmap, HERE
200 ft
nearmap

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

OAK HILL QUADRANGLE
TEXAS
7.5-MINUTE SERIES

Hampton Branch Library

Williamson
Sunset Valley
Vinson
AUSTIN
Pleasant Hill
Tanglewood Forest
Ford Oaks
SHADY HOLLOW
Davis Hill
San Leanna
Manchaca
Onion Creek
Bluff Springs

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14R

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
3°46′ 67 MILS
0°36′ 11 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
PU
Grid Zone Designation 14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

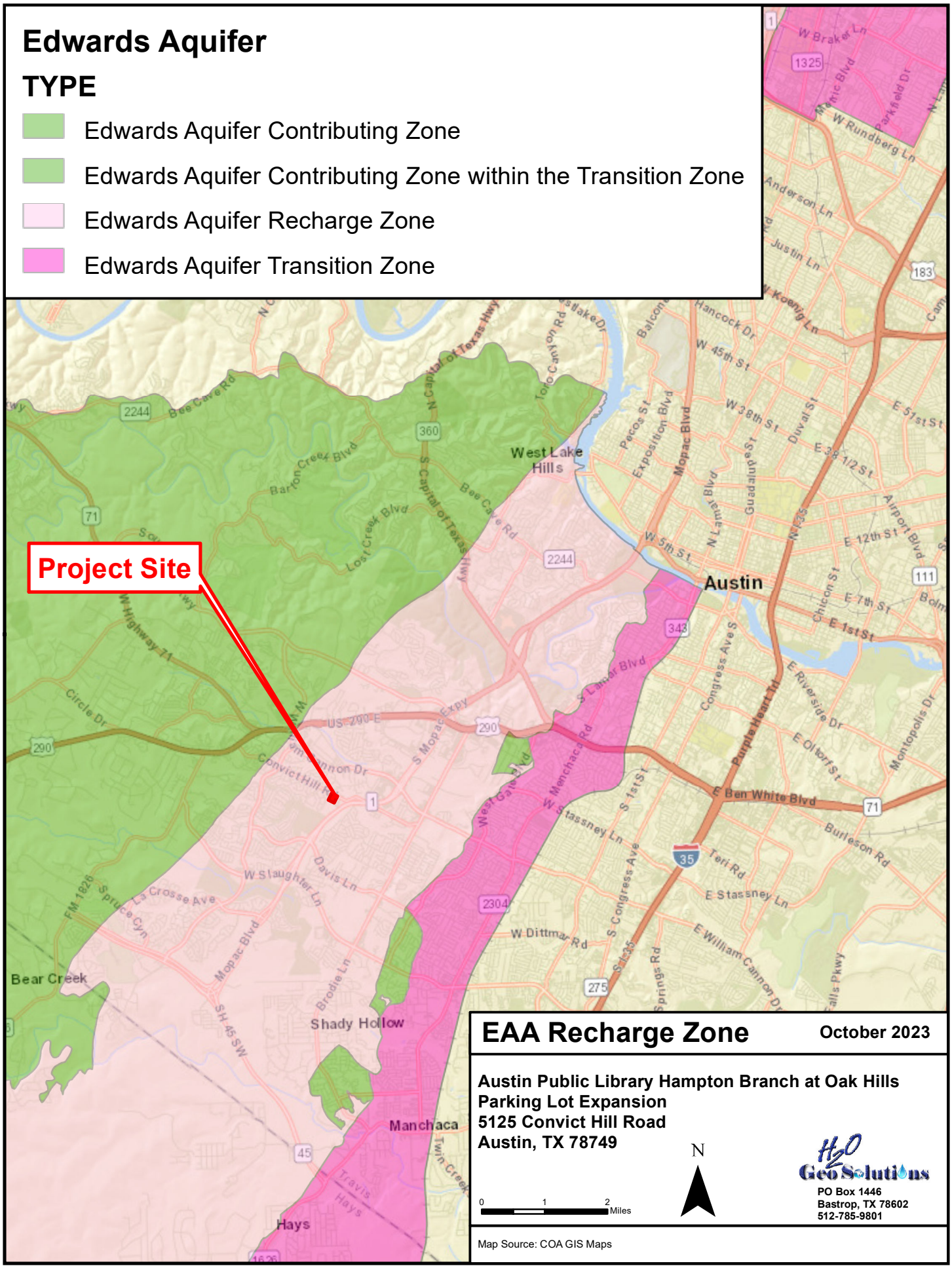
1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Bee Cave
2 Austin West
3 Austin East
4 Signal Hill
5 Montopolis
6 Mountain City
7 Buda
8 Creedmoor

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

OAK HILL, TX
2022

NSN 7643016397497
NGA REF NO.USGSX24K32740


Edwards Aquifer
TYPE
Edwards Aquifer Contributing Zone
Edwards Aquifer Contributing Zone within the Transition Zone
Edwards Aquifer Recharge Zone
Edwards Aquifer Transition Zone
Project Site
West Lake Hills
Austin
Bear Creek
Shady Hollow
Manchaca
Hays
EAA Recharge Zone
October 2023
Austin Public Library Hampton Branch at Oak Hills
Parking Lot Expansion
5125 Convict Hill Road
Austin, TX 78749
N
0 1 2 Miles
H2O GeoSolutions
PO Box 1446
Bastrop, TX 78602
512-785-9801
Map Source: COA GIS Maps

ATTACHMENT C – Project Description

The Hampton Branch Library at Oak Hill (used to be known as Oak Hill Branch Library) is located on a 12-acre site. This site has previously been developed under WPAP permit number 11-95020104 (pleas). The original approved plan proposed a total of about ~13% impervious cover over the 12-acre site. The approved and constructed BMPs include a sedimentation/filtration pond, vegetated filter strip and spray irrigation. Please see attached existing approved WPAP and plan set.

However, the originally proposed Phase 2 parking lot and building area was not constructed in the original construction. With the current proposed development, we are proposing parking lot expansion that will increase the parking/paved surfaces impervious cover by about 4,883 sf, bringing the total site impervious cover from 11.73% to 12.67%. Please see the table below for the existing and proposed impervious calculations.

Since the addition of the impervious cover is minimal, and the sedimentation/filtration pond approved and constructed in the original site plan already factored in this impervious cover, no additional new water quality treatment BMPs are proposed with the proposed parking lot expansion, and we are requesting an exception for the proposed parking lot expansion.

As part of the proposed improvements, we will also be installing EV charging stations and additional parking lot lighting fixtures. No offset runoff will drain towards the limit of construction.

EXISTING			
Impervious Cover	Sq. Ft.	Sq. Ft./Acre	Acre
Structures/Rooftops	8,880	÷ 43,560 =	0.20
Parking/Paved Surfaces	52,440	÷ 43,560 =	1.21
Total	61,320	÷ 43,560 =	1.41
(“Total Impervious Cover”) ÷ (“Total Acreage”) x 100 = % Impervious Cover =			11.73%

PROPOSED			
Impervious Cover	Sq. Ft.	Sq. Ft./Acre	Acre
Structures/Rooftops	8,880	÷ 43,560 =	0.20
Parking/Paved Surfaces	57,323	÷ 43,560 =	1.32
Total	66,203	÷ 43,560 =	1.52
(“Total Impervious Cover”) ÷ (“Total Acreage”) x 100 = % Impervious Cover =			12.67%

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

April 17, 1995

Ms. Cynthia D. Jordan
City of Austin Public Works
P.O. Box 1088
Austin, Texas 78701

Re: Edwards Aquifer, Travis County.
NAME OF PROJECT: Oak Hill Branch Library; 5125 Convict Hill Road; Austin, Texas.
TYPE OF PLAN: Request for Approval of Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) §313.4; Edwards Aquifer Protection Program.

Dear Ms. Jordan:

The Texas Natural Resource Conservation Commission (TNRCC) has completed its review of the WPAP application for the referenced project that was submitted by Tricia Altamirano Consulting Engineer on behalf of the City of Austin to the Austin Region Office on February 1, 1995.

PROJECT DESCRIPTION

The proposed commercial project will consist of the branch library facility with associated driveway, parking, sidewalk, water quality and utility improvements, approximately 13% impervious cover. Potable water will be supplied by the City of Austin.

The normal population of the development is estimated to be 225 persons. 12,750 gallons per day of wastewater is to be generated by this project, 100% domestic. Project wastewater will be disposed of by conveyance to the existing South Austin Sewage Treatment Plant.

Project stormwater will be treated using a sedimentation/filtration basin, vegetated filter strip and spray irrigation. The sedimentation/filtration basin is designed to capture the first 2.27 inches of stormwater. Treated stormwater will be used for spray irrigation as second stage treatment. A portion of stormwater runoff will flow to a vegetated filter strip for treatment.

GEOLOGY

According to the geologic assessment included with the submittal, along with the Austin Region site inspection on April 11, 1995, no potential recharge features were located within the limits of construction. A recharge feature was located off-site within 200 feet downstream of the site. The feature is a sink and has water diverted away from it by permanent earth and rock berms. Four other potential recharge features were identified in the downstream flowpath.

APPROVAL

The plan for this project has been reviewed for compliance with 30 TAC §313.4 which sets forth pollution abatement criteria for any development on the recharge zone of the Edwards Aquifer. The proposed water pollution abatement plan is in general agreement with 30 TAC §313.4; therefore, approval of the plan is hereby granted subject to the specific conditions listed below.

Failure to comply with any of the following conditions, the deed recordation requirement, or any other specific conditions of approval is a violation of these rules. Pursuant to §26.136 of the Texas Water Code, any violations of the Edwards Aquifer Rules may result in administrative **penalties of up to $10,000 for each act of violation and for each day of violation.**

SPECIAL CONDITIONS

Formal maintenance plans and anticipated cleaning schedules for the water quality pond must be submitted to the Austin Region Office for review and approval by the Executive Director within thirty (30) days of their completion. The plan shall be implemented in accordance with the approved schedule. The party responsible for overseeing the formal maintenance plan shall be indicated. Any changes which are necessary to meet the specific design of this water quality system shall be included. Some type of all weather access to the water quality system shall be provided such that maintenance may be performed during wet weather. A sample maintenance plan and schedule is enclosed.

STANDARD CONDITIONS OF APPROVAL

1. Please be reminded that 30 TAC §313.4(c) requires the owner/ developer to, within 30 days of receiving this written notice of approval and prior to commencing construction, record in the county deed records that this property is subject to the approved WPAP and submit to the appropriate region office proof of the deed recordation. Enclosed is a suggested format you may use to deed record the approved WPAP.

2. Prior to commencing construction, the applicant/agent shall submit to the Austin Region Office copies of any changes made to the plans and specifications for this project which have been required by the TNRCC review and/or all other permitting authorities.

3. **Please note, following this approval of the regulated activities described in the referenced WPAP submittal, any amendment to these activities required by some other regulating authority or desired by the applicant will require the submittal of a WPAP application to amend this approval. And, as indicated in 30 TAC §313.4 and 30 TAC §313.27, an application to amend any approved regulated activity shall include payment of appropriate fees and all information necessary for its review and Executive Director approval.**

4. Additionally, all contractors conducting regulated activities associated with this proposed regulated project shall be provided with copies of this approval letter and the entire contents of the submitted WPAP so as to convey to the contractors the specific conditions of this approval. During the course of these regulated activities, the contractors shall be required to keep on-site copies of the WPAP and this approval letter.

5. The temporary erosion and sedimentation (E&S) controls for the entire project shall be installed and the water quality pond shall be excavated prior to beginning any other construction work on this project. The water quality pond shall be used as a sedimentation basin until the contractor is ready to proceed with their final construction.

6. The appropriate E&S control(s) that shall be used during the construction of the project are as follows: (1) **Stabilized construction entrances** shall be installed at all sites of ingress and egress prior to initiation of any other regulated activity. (2) **Silt fences** should be used when the drainage areas are less than 2 acres or when the slopes are less than 10%.

(3) **Rock berms with filtration** should be used when the drainage areas are greater than two acres or when the slopes are in excess of 10%. The bottom edge of the filter fabric must be buried a minimum of 6 inches below grade.

7. The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection may be necessary if excessive solids are being discharged from the site.

8. Also, 30 TAC §313.4(d)(2) requires that if any significant recharge features, such as solution openings or sinkholes, are discovered during construction, all regulated activities near the significant recharge feature must be suspended immediately and may not be resumed until the Executive Director has reviewed and approved the methods proposed to protect the aquifer from any potential adverse impacts. Upon discovery of the significant recharge features, the developer shall immediately notify the Austin Region Office.

9. Upon completion of the project, the applicant shall reseed or sod all areas disturbed during construction.

10. If any abandoned wells exist on the site or are found during construction of the proposed development, they shall be plugged in accordance with the local underground water conservation district's plugging procedures, if applicable, or 30 TAC §287.50(a) of this title (relating to Standards for Plugging Wells that Penetrate Undesirable Water Zones), or an equivalent method, as approved by the Executive Director. Pursuant to 30 TAC §287.48(e), the person that plugs such a well shall, within 30 days after plugging is complete, submit a Water Well Completion and Plugging Report to the Executive Director, through the Austin Region Office and to the Barton Springs/Edwards Aquifer Conservation District.

    Any drill holes resulting from core sampling on-site or down-gradient of the site shall be plugged with cement slurry, from the bottom of the hole to the top of the hole, so as to not allow water or contaminants to enter the subsurface environment.

11. No waste-disposal wells, new confined animal feeding operations, land disposal of Class I wastes, or use of sewage holding tanks as parts of organized collection systems shall be allowed on the recharge zone of this regulated development.

12. During the course of the construction related to the referenced regulated project, the owner/developer shall comply with all applicable provisions of 30 TAC §313.4. Construction which is initiated and abandoned, or not completed, shall be returned to a permanent condition such that groundwater in the Edwards Aquifer is protected from potential contamination. Additionally, the City of Austin, applicant, shall remain responsible for the provisions and special conditions of this approval until such responsibility is legally transferred to another person or entity, upon which that person or entity shall assume responsibility for all provisions and specific conditions of this approval.

13. **Pursuant to 30 TAC §313.4(d)(1) and prior to commencing regulated activities, the applicant must provide the Austin Region Office with the date on which the regulated activity will commence.**

14. Please note that 30 TAC §313.4(g) states that this approval expires two years from this date unless, prior to the expiration date, construction has commenced on the regulated project.

If you have any questions or require additional information, please contact a representative of the Edwards Aquifer Protection Program at the Austin Region Office (512) 463-7803.

Sincerely,

for
Dan Pearson, Executive Director
Texas Natural Resource Conservation Commission

CDR:cdr

Enclosures

cc: Tricia Altamirano, P.E.
Bill Couch, Barton Springs/Edwards Aquifer Conservation Dist.
Austan Librach, Environmental & Conservation Services Dept., City of Austin
The Honorable Bill Aleshire, County Judge, Travis County
Christine Ellington, Field Support, TNRCC

OAK HILL BRANCH LIBRARY
FILE NAME: SSOHL.dwg

Oak Hill Branch Library

5125 Convict Hill Road
Austin, Texas
12 Acres out of the Thomas Anderson Survey No. 17
Austin, Travis County, Texas

OWNER:

CITY OF AUSTIN LIBRARY and PUBLIC WORKS & TRANSPORTATION DEPARTMENT

C.I.P. NO. 853-857-0405

PLANNER:

SITE SPECIFICS

1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-9400

ENGINEER:

TRICIA ALTAMIRANO CONSULTING ENGINEER

1101 CAPITAL OF TEXAS HWY., SOUTH
AUSTIN, TEXAS 78746
(512) 328-2203

ARCHITECT:

ARCHITECTURE + PLUS

1907 NORTH LAMAR BOULEVARD #260
AUSTIN, TEXAS 78705
(512) 478-0970

DRAWING INDEX

SHT. NO.	DRAWING NAME	REVISION/DATE 0*	1*				
1	TITLE SHEET						
2	SITE PLAN						
3	SITE GRADING & DRAINAGE PLAN						
4	EROSION, SEDIMENTATION AND WATER QUALITY CONTROL PLAN						
5	UTILITY PLAN						
6	SITE IMPROVEMENTS AND GENERAL NOTES						
7	WATER QUALITY DETAILS						
8	MISCELLANEOUS DETAILS						
9	EXISTING AND DEVELOPED CONDITIONS STORMWATER RUNOFF						
10	LANDSCAPE PLAN						
11	IRRIGATION PLAN						
12	LANDSCAPE AND IRRIGATION DETAILS						

* INDICATES DRAWING ISSUED FOR APPROVAL BY GOVERNING AUTHORITIES (NOT FOR CONSTRUCTION)
**ISSUED FOR CONSTRUCTION

REVISIONS/CORRECTIONS

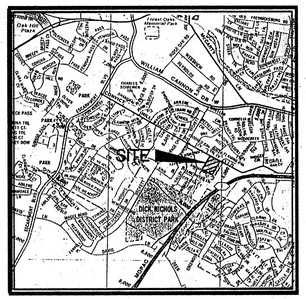
No.	Description	A	B	C	D	E	City of Austin Approval/Date	Date Imaged
1c	ADD 300SF GAZEBO & 90 LF 5' SIDEWALK	1,2,3	12	5505F	13,598 SF	14%	SLB 12.5.99	
2c	ADD NOTES FOR REF TO SP-01-0057D	1,2	12	2,690	76,288	14.6%	12/5.7.01	
3c	Add telecom Filar Hut W/ Agg Drive	1,2,3, 5,10	12	1,379	77,667	14.8%	@ 2.18.15	

A: Revise (R), Add (A), Void (V) sheet numbers. C: Net Change Impervious Cover E: % Site Impervious Cover
B: Total number sheets in Plan Set D: Site Impervious Cover

STATE OF TEXAS
CALEB J. FLAKE
113355
LICENSED
PROFESSIONAL ENGINEER
12/17/15

STATE OF TEXAS
BRIAN K. REIS
82746
REGISTERED
PROFESSIONAL ENGINEER
5/2/01

LOCATION MAP



NOTES

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE DESIGN ENGINEER.
2. WATERSHED STATUS:
   THIS PROJECT IS LOCATED IN THE WILLIAMSON CREEK WATERSHED, IS CLASSIFIED AS BARTON SPRINGS ZONE, IS WITHIN THE EDWARDS AQUIFER RECHARGE ZONE, AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH THE TERMS AND CONDITIONS OF CHAPTER 13-2-ARTICLE V AND CHAPTER 13-7-ARTICLE I OF THE CITY LAND DEVELOPMENT CODE, AS AMENDED BY ORDINANCE 920903-D. MAINTENANCE OF THE WATER QUALITY CONTROLS REQUIRED ABOVE SHALL BE TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN CHAPTER 13-7, ARTICLE 1, THE ENVIRONMENTAL CRITERIA MANUAL AND OTHER ORDINANCES AND REGULATIONS OF THE CITY.
3. THIS SITE IS REQUIRED TO COMPLY WITH THE INTEGRATED PEST MANAGEMENT PLAN.
4. NO PORTION OF THIS SITE FALLS WITHIN A 25 YEAR OR 100 YEAR FLOOD PLAIN.

SITE PLAN RELEASE Sheet 1 of 12
FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-2008 5-16-2000
CASE MANAGER: Gibson APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 13-1-160 of Chapter 13-1 of the Austin City Code.
Don Gibson for Katherine Lowerton
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 — Correction 1 2-25-99 (SLB)
Rev. 2 — Correction 2 —
Rev. 3 — Correction 3 @ 2-18-15

SUBMITTAL DATE: 12-01-94

WATERSHED: WILLIAMSON CREEK, BARTON SPRINGS ZONE

DEVELOPMENT PERMIT NO.: SP94-0459C

ZONING CASE NO.: C14-86-150

SUBMITTED BY: SITE SPECIFICS DATE

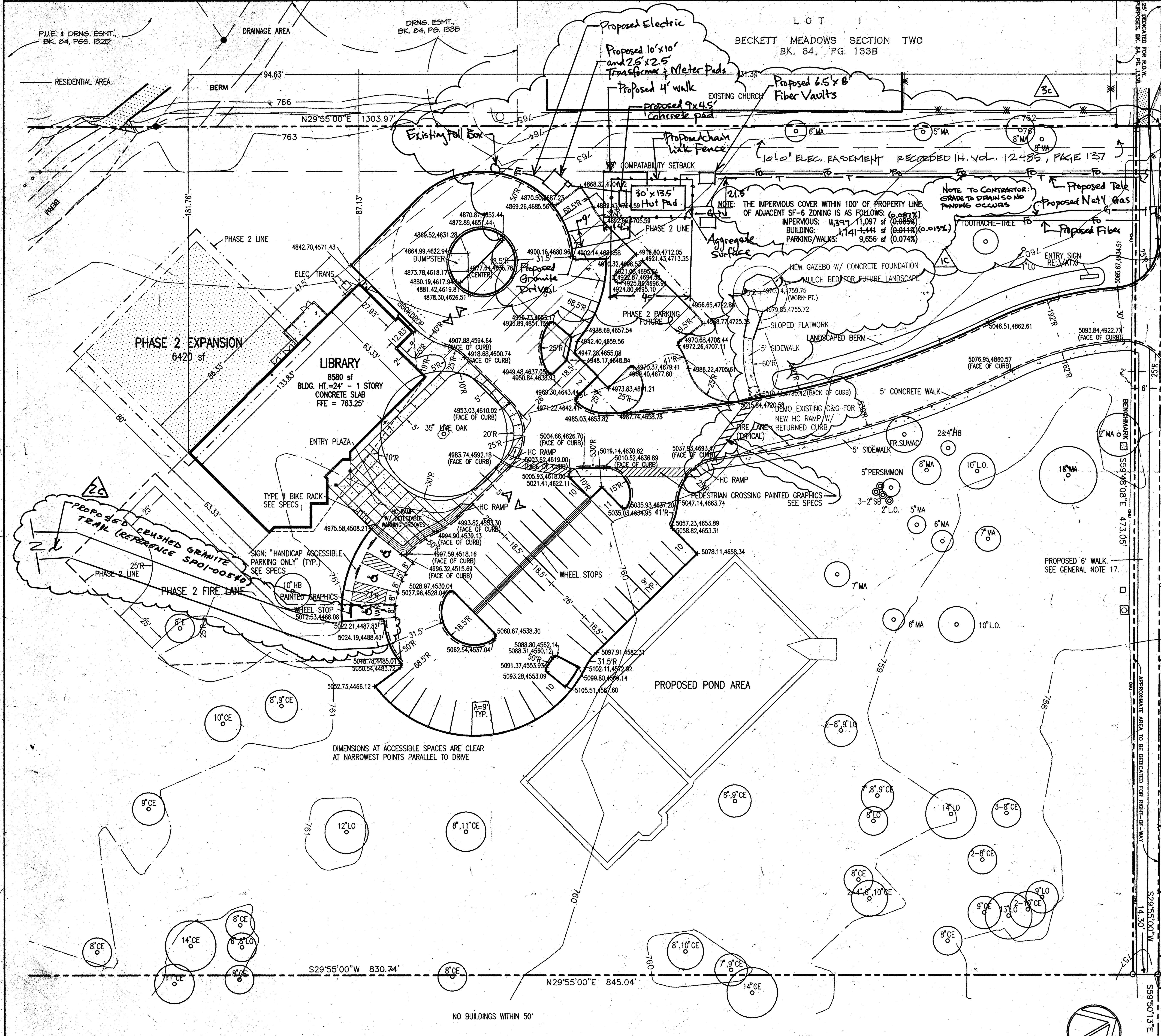
STATE OF TEXAS
TRICIA S. TICHENOR-ALTAMIRANO
62688
REGISTERED
PROFESSIONAL ENGINEER
4/24/95

APPROVED BY: N/A
CITY OF AUSTIN FIRE DEPARTMENT DATE

APPROVED BY: N/A
WATER AND WASTEWATER ENGINEER DATE

APPROVED BY: 9/25/95
FOR DIRECTOR OF THE PLANNING DEPARTMENT DATE

SPC-94-0459C



LOT 1

STONECREEK
BK. 86, PGS. 6D & 7A

Revisions to this Site Plan Clouded and labeled Delta 3c, were completed by Caleb Flake of BHC RHODES.

NOTE:

* All water quality control facilities as shown on the approved water quality control plan shall be completed and fully operational prior to release of the first phase.

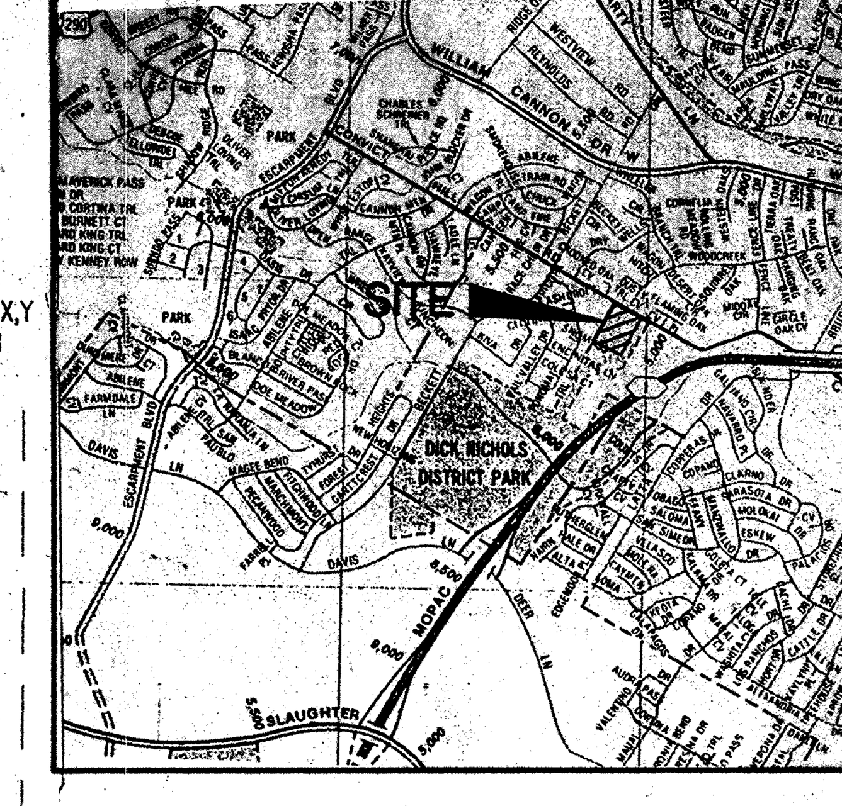
* All disturbed areas within each phase of this project shall be revegetated and all permanent erosion/sedimentation controls completed prior to the issuance of occupancy permits for that phase. Temporary E/S controls shall be adjusted as needed prior to this release to insure that subsequent phase disturbed areas are adequately covered.

* Additionally, any area within the limit of construction of the project which is not adequately revegetated shall be brought into compliance prior to the release of the final phase.

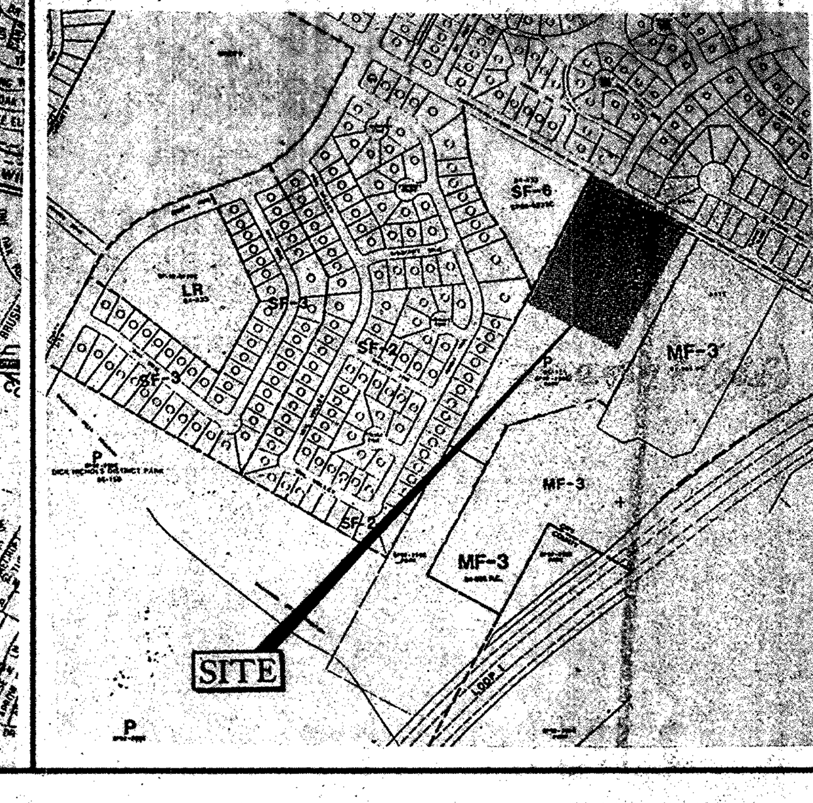
FIRE RELEASE NOTES

1. The Austin Fire Department requires asphalt or concrete pavement prior to construction as an "all-weather driving surface."
2. Hydrants must be installed with the center of the four-inch opening at least 18 inches above finished grade. The four-inch opening must face the driveway or street with three- to six-foot setbacks from the curbline(s). No obstruction is allowed within three feet of any hydrant and the four-inch opening must be totally unobstructed from the street.
3. TIMING OF INSTALLATION: When fire protection facilities are installed by the developer, such facilities shall include all surface access roads which shall be installed and made serviceable prior to and during the time of construction. When alternative methods of protection, as approved by the Fire Chief, are provided, the above may be modified or waived.
4. All pervious/decorative paving shall be engineered and installed for 80,000 lb. live-vehicle loads. Any pervious/decorative paving within 100 feet of any building must be approved by the Fire Department.
5. Commercial dumpsters and containers with an individual capacity of 1.5 cubic yards or greater shall not be stored or placed within ten feet of openings, combustible walls, or combustible eave lines.
6. Fire lanes designated on site plan shall be registered with City of Austin Fire Marshall's office and inspected for final approval.
7. Vertical clearance required for fire apparatus is 13 feet, 6 inches for full width of access drive.

NORTH
SCALE: 1"=30'



LOCATION MAP
NTS



LAND USE MAP
NTS

GENERAL NOTES

1. All improvements shall be made in accordance with the released site plan. Any additional improvements will require site plan amendment and approval of the Department of Planning and Development.
2. Approval of this site plan does not include building and Fire Code approval (building permit).
3. All signs must comply with requirements of Sign and Zoning Ordinance.
4. Driveways:
   (a) Owner is responsible for all cost of relocation, or damage to, utilities.
5. All mechanical equipment storage areas, areas from refuse collection and parking will be screened from off site view.
6. Connect to City of Austin's water and wastewater systems for service.
7. The Austin Fire Department requires asphalt or concrete pavement prior to construction as an "All weather driving surface."
8. Sidewalks and driveway approaches constructed shall not be finally accepted until all utility connections are complete and any cuts required by the Utility Installation have been restored.
9. Waterway or site development permit is required prior to all clearing, grading, filling or construction.
10. Building square feet is the same as the Gross Floor Area.
11. Additional electric easement may be required at a later date.
12. The undisturbed vegitation shall remain undisturbed. Any future easements must be approved by ECSD prior to release.
13. All exterior lighting will be hooded or shielded so that the light source is not directly visible from adjacent SF-5 or more restrictive properties.
14. The noise level of mechanical equipment will not exceed 70 DBA at the property line.
15. The use of highly reflective surfaces, such as reflective glass and reflective metal roofs, whose pitch is more than a run of seven to a rise of twelve, will be prohibited.
16. For construction within the right-of-way, a concrete permit is required.
17. Sidewalks along Convict Hill Road are required to be constructed by the property owner after the abutting roadway is improved and concrete curbs are in place. Failure to construct the required sidewalks may result in the withholding of Certificates of Occupancy, building permits, or utility connections by the governing body or utility company. LDC, 13-5-92

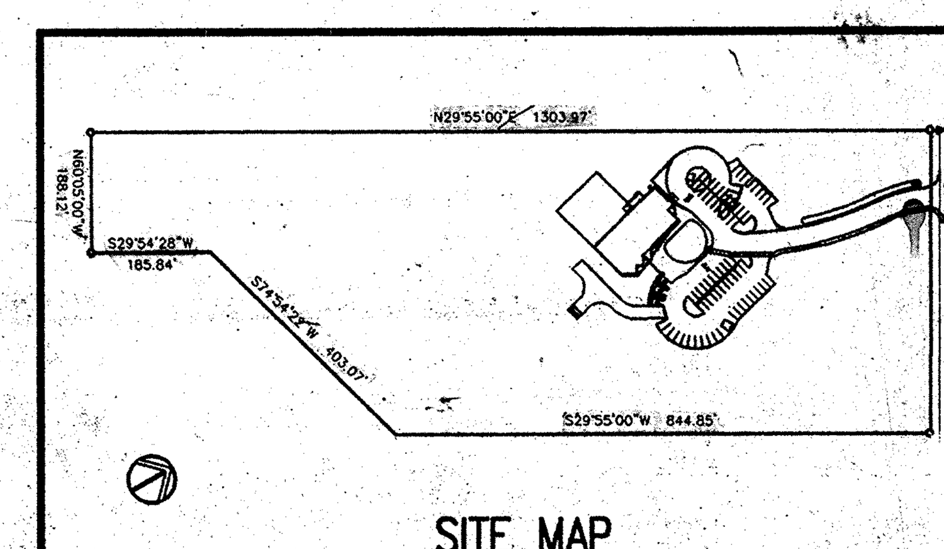
BUILDING & PARKING TABULATIONS

TOTAL SITE	= 12 ACRES
LIMIT OF CONSTRUCTION	= 4.25 ACRES
BUILDING AREA:	
PHASE ONE	= ~~8,580~~ 8,880 SF
PHASE TWO	= 6,420 SF
BUILDING COVERAGE OVER ALL IS	~~15,000~~ ~~15,300~~ 15,705 SQ.FT. ~~(2.8%)~~ ~~(2.9%)~~ 30%
PARKING REQUIRED @1 TO 400 FOR 15,000 SQ.FT.	= 38 SPACES
PARKING PROVIDED	
PARKING PROVIDED PHASE ONE:	
STANDARD SPACES	= 47 SPACES
H.C. SPACES	= 3 SPACES
TOTAL	= 50 SPACES
PARKING PROVIDED PHASE TWO:	
STANDARD SPACES	= 25 SPACES
REQUIRED BICYCLE PARKING 5%	= 4 SPACES
PROVIDED BICYCLE PARKING	= 4 SPACES
IMPERVIOUS COVER ALLOWED (WATERSHED)	= 78,408 SF (15%)
IMPERVIOUS COVER PROPOSED OVER ALL	= ~~73,048~~ ~~73,598~~ ~~76,288~~ SF ~~(14%)~~ ~~(14.6%)~~ 77,667 14.8%
PHASE ONE	= ~~53,495~~ ~~54,045~~ 56735
PHASE TWO	= 16,347
BOUNDERY STREET	= 3,206
F.A.RATIO = ~~15,000~~ ~~15,300~~ 15,705 TO 522,720 SQ. FT. OVER ALL	= ~~.029~~ .030 TO 1
BOUNDARY STREET IMPERVIOUS COVER	
1/2 OF ROW	= 16,625 SQ.FT.
ALLOWED IMPERV. COVER AT 15%	= 2,494 SQ.FT.
ACTUAL IMPERV. COVER	= 5,700 SQ.FT.
IMPERV COVER INCLUDED IN SITE	= 3,206 SQ.FT.

Note 1:
The Electric Utility has the right to cut and trim trees and shrubbery and remove obstructions to the extent necessary to keep the easements clear of obstructions.

Note 2:
The owner/developer of this subdivision/lot shall provide the City of Austin Electric Utility Department with any easement and/or access required for the installation and ongoing maintenance of overhead and underground electric facilities within or along the perimeter of this subdivision/lot.

Note 3:
Any Electric Utility activity inside the subdivision shall be included under the general development permit by the owner of the property.



SITE MAP
NTS

STATE OF TEXAS — CALEB J. FLAKE — 118355 — LICENSED PROFESSIONAL ENGINEER — 2/17/15

NAME: Oak Hill Branch Library

ADDRESS: 5125 CONVICT HILL ROAD

LEGAL DESCRIPTION: 12 acres out of the Thomas Anderson Survey No. 17 Austin, Travis County, Texas

AREA: 12 ACRES

OWNER: City of Austin Library Department & Public Works & Transportation Department C.I.P. NO. 853-857-0405

SITE PLAN RELEASE Sheet 2 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: ~~5-16-98~~ 5-16-2008
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 660 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ______ Correction 1 2-25-99 (SHB)
Rev. 2 ______ Correction 2 5-2-01 DG
Rev. 3 ______ Correction 3 (m) 2-18-15

REVIEWED BY: FOR DIRECTOR OF PLANNING DEPARTMENT PERMIT NUMBER DATE 9/25/95

ARCHITECTURE + PLUS
1907 NORTH LAMAR BOULEVARD, #260
AUSTIN, TEXAS 78705
(512) 478-0970
FAX (512) 478-0920

SITE SPECIFICS
1101 Capital of Texas Highway, South Building E, Suite 220 Austin, Texas 78746 (512) 328-9400

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

DIMENSIONED SITE PLAN

ISSUE DATE:	May 1, 1995
DRAWN BY: gg	DATE: 032495
CHECKED BY: BJC	DATE: 032495

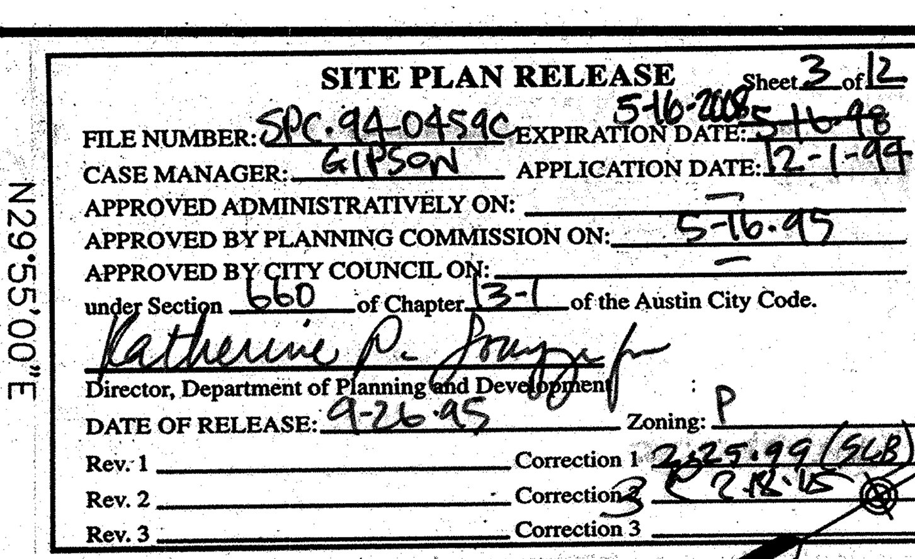
REVISIONS

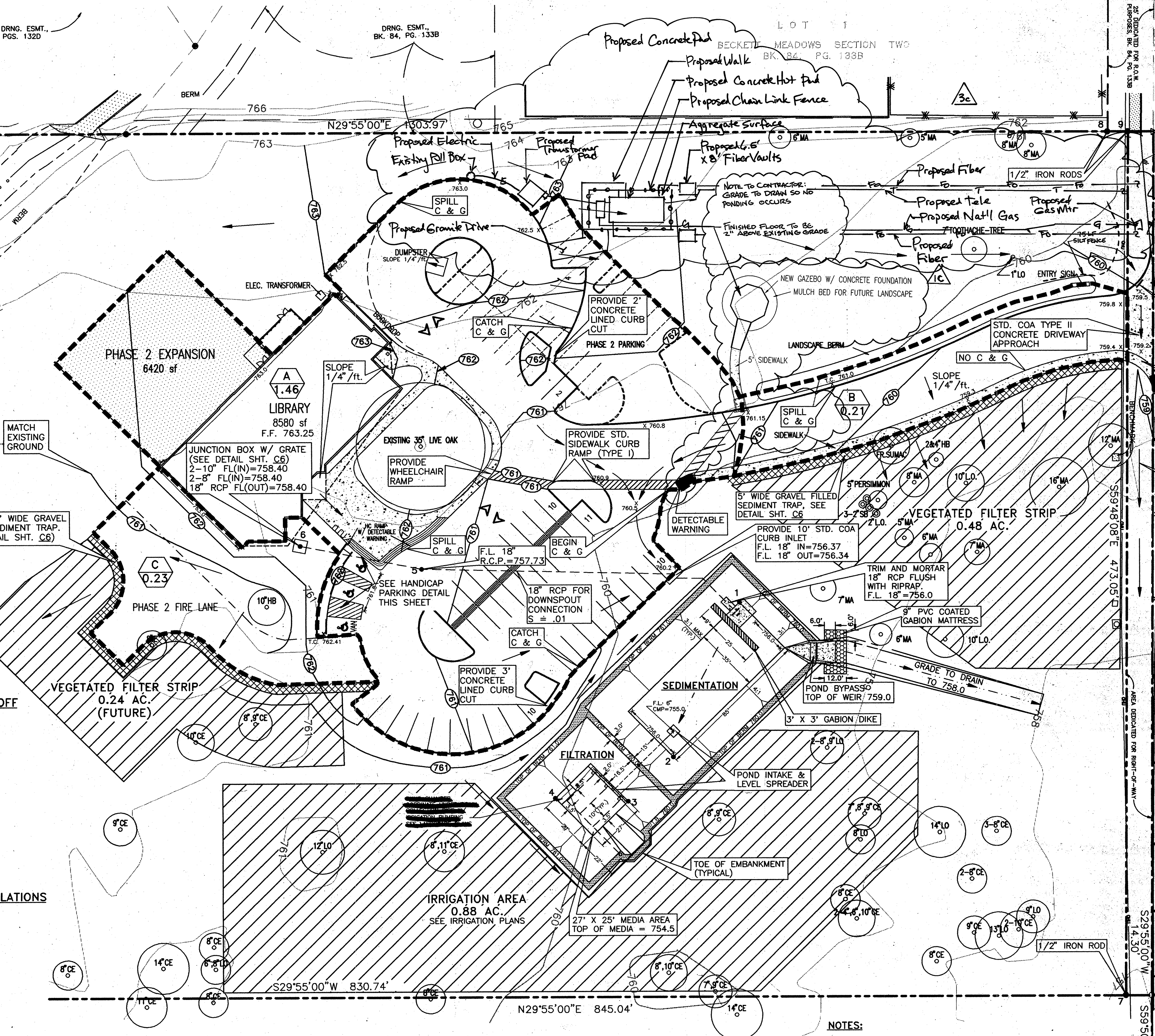
NO.	DATE	REMARKS
1	030695	
2	030995	EASEMENT

SHEET
C1
2 OF 12

PROJECT NUMBER: 942402

SPC-94-0459C

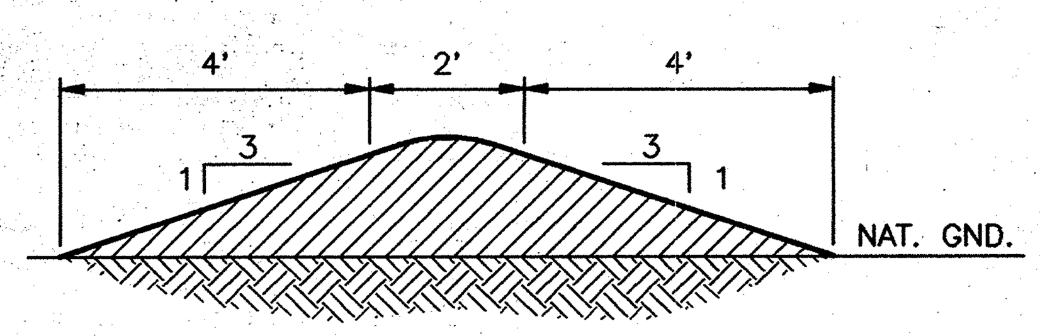




Notes:
1. Temporary Sedimentation and Erosion Controls will be Placed Downstream of any disturbed Area Prior To Construction. Modification to said Controls Can be adjusted in the Field With City Approval
2. Only Minor grading is expected for site Preparation
3. A generator Pad is Planned to be Constructed without a generator being installed at this time. If a generator were to be added, a site plan correction would be Required

DIMENSIONAL CONTROL TABLE

POINT	NORTHING	EASTING
1	4919.61	4577.34
2	4846.17	4632.62
3	4812.78	4641.31
4	4779.85	4621.88
5	4779.19	4475.23
6	4728.46	4431.35
7	4993.47	4868.54
8	5221.52	4454.34
9	5230.93	4459.69



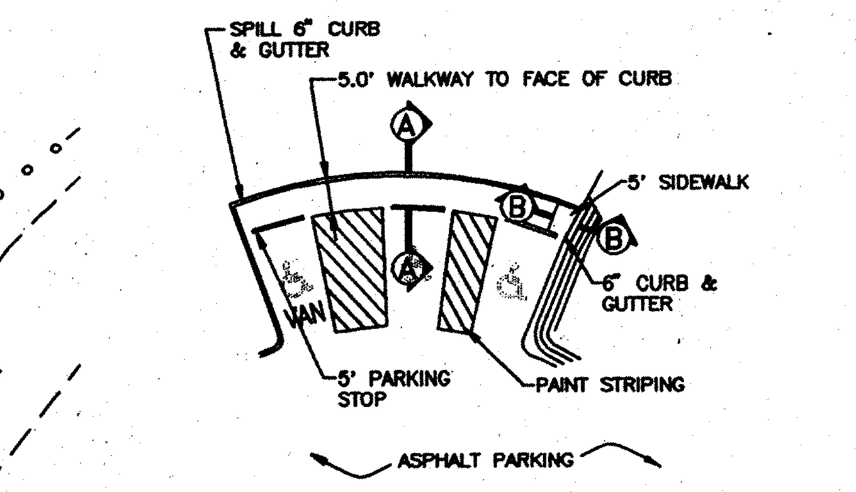
TYPICAL SECTION – LANDSCAPE BERM
NOT TO SCALE

LEGEND

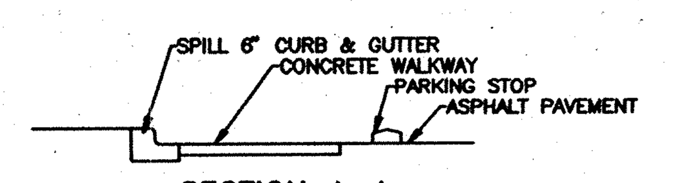
- 762 EXISTING CONTOUR
- 760 PROPOSED CONTOUR
- x 759.3 PROPOSED SPOT ELEVATION
- FLOW DIRECTION ARROW
- DRAINAGE BOUNDARY
- 6 • DIMENSIONAL CONTROL POINT
- GRAVEL FILLED SEDIMENT TRAP
- GABION MATTRESS
- GABION DIKE
- A 1.46 DRAINAGE AREA W/ ACREAGE
- 10" HB TREE TO BE REMOVED
- 8" LO TREE TO REMAIN

TREE ABBREVIATION LEGEND

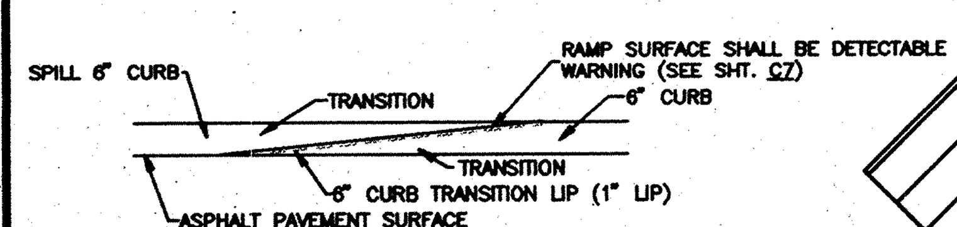
CE	CEDAR
LO	LIVE OAK
HB	HACKBERRY
E	ELM
MA	MULTI-ACACIA
SB	SOAPBERRY



HANDICAP PARKING DETAIL
SCALE: 1" = 30'



SECTION A–A



SECTION B–B

CALCULATION OF STORMWATER RUNOFF

AREA A (1.46 AC., I.C.=93%)
C25=(.93)(.87)+(.07)(.29)=.83
C100=(.93)(.96)+(.07)(.36)=.92
tc=5 min.
i25/100=9.8/11.9 in./hr.
Q25/100=11.9/16.0 cfs

AREA B (0.21 AC., I.C.=86%)
C25=(.86)(.87)+(.14)(.29)=.79
C100=(.86)(.96)+(.14)(.36)=.88
tc=5 min.
i25/100=9.8/11.9 in./hr.
Q25/100=1.6/2.2 cfs

AREA C (0.23 AC., I.C.=55%)
C25=(.55)(.87)+(.45)(.29)=.61
C100=(.55)(.96)+(.45)(.36)=.69
tc=5 min.
i25/100=9.8/11.9 in./hr.
Q25/100=1.4/1.9 cfs

SEDIMENTATION/FILTRATION POND CALCULATIONS

A=1.46 AC., CAPTURE VOL.=2.27 in.
REQUIRED:
WQV=12031 CF
VOL. SED.=WQV=12031 CF
AREA SED.=WQV/10=1203 S.F.
VOL. FILT.=0.2 WQV=2406 CF
AREA FILT.=WQV/18=668 S.F.
PROVIDED:
SEDIMENTATION:

ELEV.	STORAGE (C.F.)
755	0
756	1312
759	12643

AREA SED.=3777 S.F.

FILTRATION:

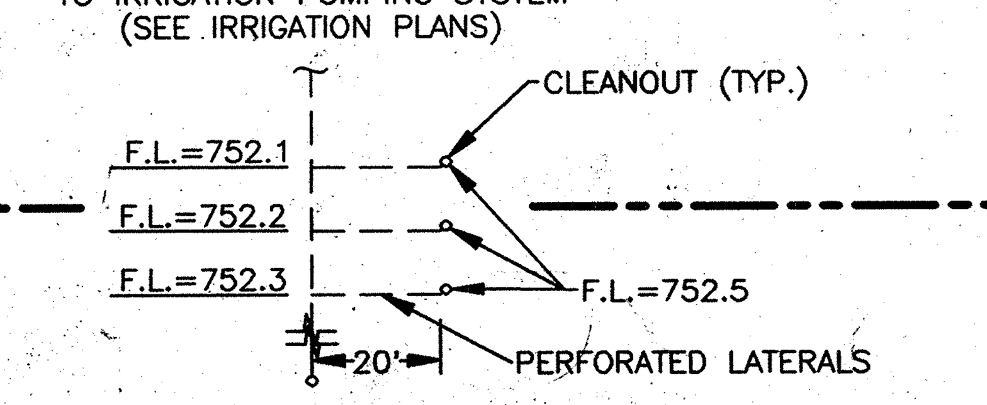
ELEV.	STORAGE (C.F.)
754.5	0
757.5	4131

AREA FILT.=675 S.F.

POND BYPASS SWALE CALCULATIONS

BW=10', n=.045, S=.00625, S.S.=3:1
Q25/100=11.9/16.0 c.f.s.
d25/100=0.6/0.7 ft.
V25/100=1.7/1.9 f.p.s.

Revisions To This Site Plan, Clouded and Labeled Delta 3c, were completed By Caleb Flake of BHC RHODES. (3c)



6" SCH 40 PVC UNDERDRAIN
SCALE: 1" = 30'

NOTES:
1. FOR POND DETAILS SEE SHT. C6
2. CONCRETE RIPRAP TO BE 5" CLASS 'A' WITH 6" X 6" X W2.9 X W2.9 WWF
3. FOR SOS WATER QUALITY CALCULATIONS SEE SHT. C3
4. SIDEWALKS ALONG CONVICT HILL RD. ARE REQUIRED TO BE CONSTRUCTED BY THE PROPERTY OWNER AFTER THE ABUTTING ROADWAY IS IMPROVED.
5. VEGETATED FILTER STRIPS, SEDIMENTATION/ FILTRATION POND, IRRIGATION AREA AND SEDIMENT TRAPS ARE SET ASIDE FOR WATER QUALITY PURPOSES ONLY AND NO ACTIVITIES ARE PERMITTED IN THESE AREAS WHICH MIGHT DIMINISH THEIR EFFECTIVENESS TO ACHIEVE THAT PURPOSE.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

REVIEWED BY:
9/25/95
DEPARTMENT OF PLANNING AND DEVELOPMENT DATE

STATE OF TEXAS — CALEB J. FLAKE — 110866 — LICENSED PROFESSIONAL ENGINEER

TACE
Tricia Altamirano Consulting Engineer, Inc.

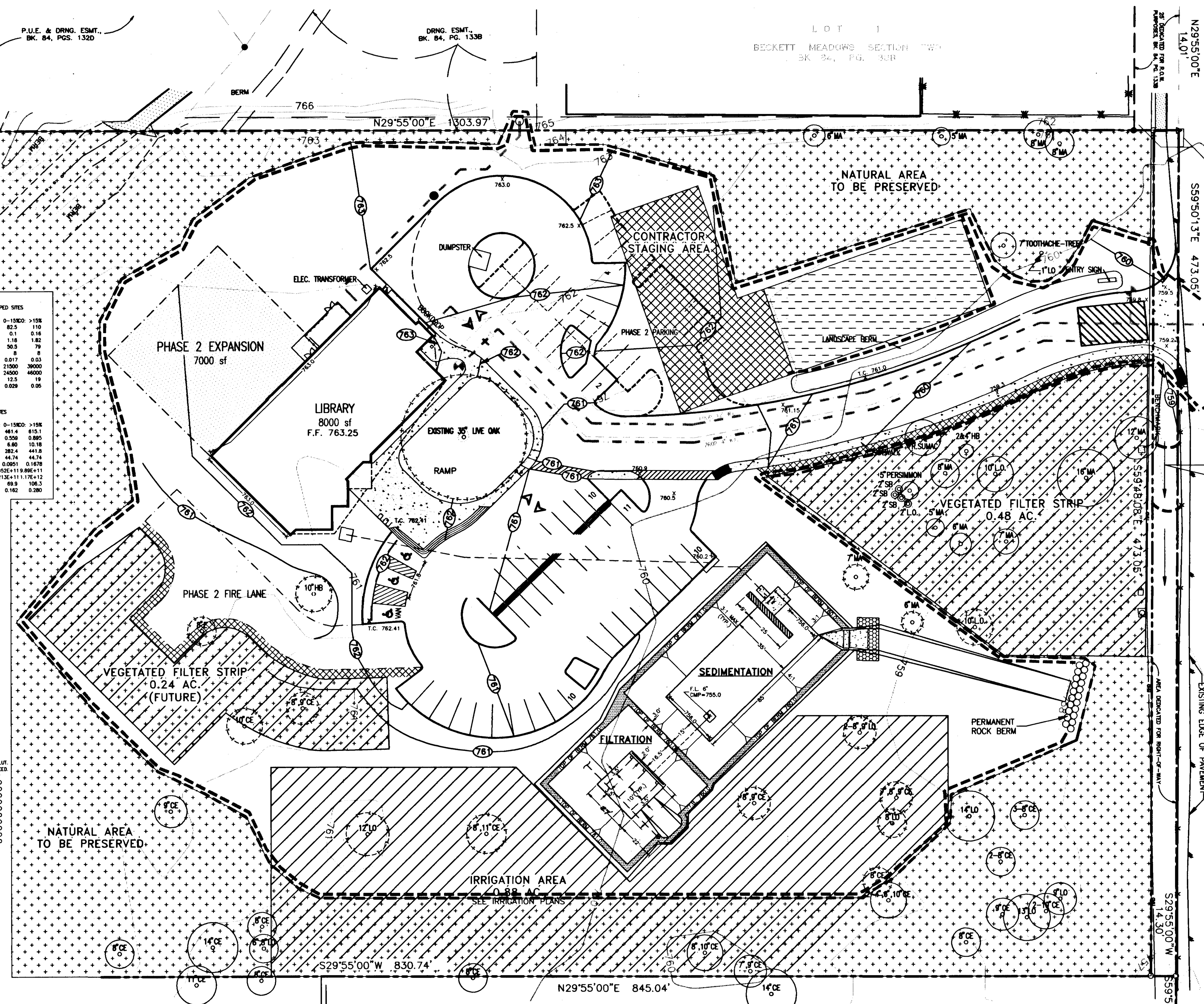
STATE OF TEXAS — TRICIA S. TICHENOR-ALTAMIRANO — 62688 — REGISTERED PROFESSIONAL ENGINEER

OAK HILL LIBRARY
SITE GRADING AND DRAINAGE PLAN

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746,(512) 328-2203

JOB NO.94-026.10	SCALE: 1"=30'	SHEET: C3 OF 12
DESIGNED BY: JFS		
DRAWN BY: RWH		
C:\OAKLIBR\OAKSITE.dwg		DATE: 7/7/95

SPC-94-0459C



SCALE: 1" = 30'

SITE PLAN RELEASE Sheet 4 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIBSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 660 of Chapter 13-1 of the Austin City Code.
[signature]
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ______ Correction 1 ______
Rev. 2 ______ Correction 2 ______
Rev. 3 ______ Correction 3 ______

PROJECT: OAK HILL LIBRARY
SOS POLLUTANT LOADINGS

WATER QUALITY AREA	A	(Includes future bldg. & parking expansion)
ACRES	1.46	
IMPERVIOUS COVER	93.2%	
REQ'D. CAPTURE VOL. (IN.)	2.27	
RECHARGE ZONE?	YES	
RUNOFF COEFF. (Rf)	0.759	
LAND USE (SF, MF, CO?)	CO	

BASELINE LOADING

SOS RULES TABLE 1-11
POLLUTANT CONCENTRATIONS FOR DEVELOPED SITES

POLLUTANT	UNIT LOAD(Bp)	BASELINE LOAD (Up)	SF: 0-15%	SF: >15%	MF: 0-15%	MF: >15%	CO: 0-15%	CO: >15%
TSS	10.1	14.746	82.5	110	82.5	110	82.5	110
TP	0.007	0.01022	0.1	0.16	0.1	0.16	0.1	0.16
TN	0.1	0.1	1.27	2	0.97	1.4	1.18	1.82
COD	4.1	5.986	28.5	35	28.5	35	50.5	79
BOD	1.5	2.19	8	8	8	8	8	8
Pb	0.0006	0.000876	0.012	0.02	0.012	0.02	0.017	0.03
FC	3.34E+09	4.88E+09	6200	8400	6200	8400	21500	39000
FS	2.51E+09	3.66E+09	7000	11000	7000	11000	24500	46000
TOC	1.1	1.606	7.5	9	7.5	9	12.5	19
Zn	0.0015	0.00219	0.024	0.04	0.024	0.04	0.029	0.05

DEVELOPED LOADING

UNIT LOADS FOR DEVELOPED SITES

POLLUTANT	UNIT LOAD(Dp)	DEVELOPED LOAD (Tp)	SF: 0-15%	SF: >15%	MF: 0-15%	MF: >15%	CO: 0-15%	CO: >15%
TSS	615.1	898	461.4	615.1	461.4	615.1	461.4	615.1
TP	0.895	1.31	0.559	0.895	0.559	0.895	0.559	0.895
TN	10.18	14.86	7.10	11.18	5.42	7.83	6.60	10.18
COD	441.8	645	159.4	195.7	159.4	195.7	282.4	441.8
BOD	44.7	65	44.74	44.74	44.74	44.74	44.74	44.74
Pb	0.1678	0.245	0.0671	0.1118	0.0671	0.1118	0.0951	0.1678
FC	9.89E+11	1.44E+12	1.57E+11	2.13E+11	1.572E+11	2.13E+11	5.452E+11	9.89E+11
FS	1.17E+12	1.70E+12	1.78E+11	2.789E+11	1.775E+11	2.79E+11	6.213E+11	1.17E+12
TOC	106.3	155	41.9	50.3	41.9	50.3	69.9	106.3
Zn	0.280	0.408	0.134	0.224	0.134	0.224	0.162	0.280

REQUIRED REMOVAL

POLLUTANT	Rp	LOAD
TSS	98.4%	883
TP	99.2%	1.30
TN	99.0%	14.7
COD	99.1%	639
BOD	96.6%	63
Pb	99.6%	0.244
FC	99.7%	1.44E+12
FS	99.8%	1.7E+12
TOC	99.0%	154
Zn	99.5%	0.406

TREATMENT: SED/FILT POND
WQV = 12031

POLLUTANT	REMOVAL EFF.	LOAD REM'VD	LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED.
TSS	87%	781	117	14.746	YES
TP	61%	0.80	0.51	0.01022	YES
TN	31%	4.6	10.3	0.1	YES
COD	67%	432	213	5.986	YES
BOD	51%	33	32	2.19	YES
Pb	80%	0.196	0.049	0.000876	YES
FC	36%	5.20E+11	9.24E+11	4.88E+09	YES
FS	65%	1.11E+12	5.96E+11	3.66E+09	YES
TOC	61%	95	60	1.606	YES
Zn	80%	0.327	0.082	0.00219	YES

SPRAY IRRIGATION SECOND STAGE TREATMENT

AVERAGE SLOPE	1%	
SOILS=Speck stony clay loam	D	(Hydrologic Type)
PERMEABILITY	.06-.20	in./hr.
IRRIGATION AREA PROVIDED	0.88	ac.
APPLICATION RATE	0.08	in/hr (Based on 48 hour empty of pond)

POLLUTANT	CONC.	UNIT LOAD REM'VD[1]	ACRES REQ'D	ANNUAL LOAD REM'VD	ANNUAL LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED. ?
TSS	110	729	0.14	117	0	15	NO
TP	0.16	1	0.47	0.51	0	0.01022	NO
TN	1.82	12	0.84	10	0	0.146	NO
COD	79	524	0.40	213	0	5.986	NO
BOD	8	53	0.56	32	0	2.19	NO
Pb	0.03	0.20	0.24	0.05	0.000	0.000876	NO
FC	39000	1.17E+12	0.78	9.24E+11	0.00E+00	4.88E+09	NO
FS	46000	1.38E+12	0.43	5.96E+11	0.00E+00	3.66E+09	NO
TOC	19	126	0.47	60	0	1.606	NO
Zn	0.05	0.33	0.24	0.08	0	0.00219	NO

[1] ASSUMES 90% EFFICIENCY OF ON-LINE NO-DISCHARGE SYSTEM

PROJECT: OAK HILL LIBRARY
SOS POLLUTANT LOADINGS

WATER QUALITY AREA	B	NOTE: Area B consists of driveway. Treatment is by VFS,
ACRES	0.21	thus the 0% removals for sed./filt. below.
IMPERVIOUS COVER	85.7%	Pretreatment is by sediment trap prior to VFS.
REQ'D. CAPTURE VOL. (IN.)	2.14	
RECHARGE ZONE?	YES	
RUNOFF COEFF. (Rf)	0.701	
LAND USE (SF, MF, CO?)	CO	

BASELINE LOADING

POLLUTANT	UNIT LOAD(Bp)	BASELINE LOAD (Up)
TSS	10.1	2.121
TP	0.007	0.00147
TN	0.1	0.0
COD	4.1	0.861
BOD	1.5	0.315
Pb	0.0006	0.000126
FC	3.34E+09	7.01E+08
FS	2.51E+09	5.27E+08
TOC	1.1	0.231
Zn	0.0015	0.000315

REQUIRED REMOVAL

POLLUTANT	Rp	LOAD
TSS	98.2%	117
TP	99.2%	0.17
TN	98.9%	2.0
COD	99.0%	85
BOD	96.4%	8
Pb	99.6%	0.032
FC	99.6%	1.91E+11
FS	99.8%	2.26E+11
TOC	98.9%	20
Zn	99.4%	0.054

DEVELOPED LOADING

POLLUTANT	UNIT LOAD(Dp)	DEVELOPED LOAD (Tp)
TSS	568.1	119
TP	0.826	0.17
TN	9.40	1.97
COD	408.0	86
BOD	41.3	9
Pb	0.1549	0.033
FC	9.13E+11	1.92E+11
FS	1.08E+12	2.26E+11
TOC	98.1	21
Zn	0.258	0.054

TREATMENT: SED./FILT. POND
WQV= 0

POLLUTANT	REMOVAL EFF.	LOAD REM'VD	LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED.
TSS	0%	0	119	2.121	YES
TP	0%	0.00	0.17	0.00147	YES
TN	0%	0.0	2.0	0.0	YES
COD	0%	0	86	0.861	YES
BOD	0%	0	9	0.315	YES
Pb	0%	0.000	0.033	0.000126	YES
FC	0%	0.00E+00	1.92E+11	7.01E+08	YES
FS	0%	0.00E+00	2.26E+11	5.27E+08	YES
TOC	0%	0	21	0.231	YES
Zn	0%	0.000	0.054	0.000315	YES

VEGETATED FILTER SECOND STAGE TMT.

AVERAGE SLOPE	1%
CONDITION(Poor, Fair, Good?)	GOOD
C(1 YR): (Per LCRA, Tbl. D-6)	0.21
ACRES VFS PROVIDED	0.48

POLLUTANT	CONC.	UNIT LOAD REM'VD	ACRES REQ'D	ANNUAL LOAD REM'VD	ANNUAL LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED. ?
TSS	110	320	0.37	119	0	2.121	NO
TP	0.16	0.47	0.37	0.17	0.00	0.00147	NO
TN	1.82	5.3	0.37	2.0	0.0	0.0	NO
COD	79	230	0.37	86	0	0.861	NO
BOD	8	23	0.37	9	0	0.315	NO
Pb	0.03	0.087	0.37	0.033	0.000	0.000126	NO
FC	39000	5.15E+11	0.37	1.92E+11	0.00E+00	7.01E+08	NO
FS	46000	6.07E+11	0.37	2.26E+11	0.00E+00	5.27E+08	NO
TOC	19	55	0.37	21	0	0.231	NO
Zn	0.05	0.145	0.37	0.054	0.000	0.000315	NO

PROJECT: OAK HILL LIBRARY
SOS POLLUTANT LOADINGS

WATER QUALITY AREA	C	NOTE: Area C consists of future fire lane. Treatment is by VFS
ACRES	0.23	only, thus the 0% removals for sed./filt. below.
IMPERVIOUS COVER	55.4%	Pretreatment is by sediment trap prior to VFS.
REQ'D. CAPTURE VOL. (IN.)	1.60	
RECHARGE ZONE?	YES	
RUNOFF COEFF. (Rf)	0.351	
LAND USE (SF, MF, CO?)	CO	

BASELINE LOADING

POLLUTANT	UNIT LOAD(Bp)	BASELINE LOAD (Up)
TSS	10.1	2.323
TP	0.007	0.00161
TN	0.1	0.0
COD	4.1	0.943
BOD	1.5	0.345
Pb	0.0006	0.000138
FC	3.34E+09	7.68E+08
FS	2.51E+09	5.77E+08
TOC	1.1	0.253
Zn	0.0015	0.000345

DEVELOPED LOADING

POLLUTANT	UNIT LOAD(Dp)	DEVELOPED LOAD (Tp)
TSS	284.5	65
TP	0.414	0.10
TN	4.71	1.08
COD	204.3	47
BOD	20.7	5
Pb	0.0776	0.018
FC	4.57E+11	1.05E+11
FS	5.39E+11	1.24E+11
TOC	48.1	11
Zn	0.129	0.030

REQUIRED REMOVAL

POLLUTANT	Rp	LOAD
TSS	96.4%	63
TP	98.3%	0.09
TN	97.9%	1.1
COD	98.0%	46
BOD	92.7%	4
Pb	99.2%	0.018
FC	99.3%	1.04E+11
FS	99.5%	1.23E+11
TOC	97.8%	11
Zn	98.8%	0.029

TREATMENT: SED/FILT POND
WQV = 0

POLLUTANT	REMOVAL EFF.	LOAD REM'VD	LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED.
TSS	0%	0	65	2.323	YES
TP	0%	0.00	0.10	0.00161	YES
TN	0%	0.0	1.1	0.0	YES
COD	0%	0	47	0.943	YES
BOD	0%	0	5	0.345	YES
Pb	0%	0.000	0.018	0.000138	YES

VEGETATED FILTER SECOND STAGE TMT.

AVERAGE SLOPE	1%
CONDITION (Poor, Fair, Good?)	GOOD
C(1 YR): (Per LCRA, Tbl.D-6)	0.21
ACRES VFS PROVIDED	0.21

POLLUTANT	CONC.	UNIT LOAD REM'VD	ACRES REQ'D	ANNUAL LOAD REM'VD	ANNUAL LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED. ?
TSS	110	320	0.20	65	0	2.323	NO
TP	0.16	0.47	0.20	0.10	0.00	0.00161	NO
TN	1.82	5.3	0.20	1.1	0.0	0.0	NO
COD	79	230	0.20	47	0	0.943	NO
BOD	8	23	0.19	5	0	0.345	NO
Pb	0.03	0.087	0.20	0.018	0.000	0.000138	NO
FC	39000	5.15E+11	0.20	1.05E+11	0.00E+00	768200000	NO
FS	46000	6.07E+11	0.20	1.24E+11	0.00E+00	577300000	NO
TOC	19	55	0.20	11	0	0.253	NO
Zn	0.05	0.145	0.20	0.030	0.000	0.000345	NO

LEGEND

- SILT FENCE
- LIMITS OF CONSTRUCTION
- PROPOSED WASTEWATER LINE
- PROPOSED 12" WATER LINE
- PROPOSED 4" WATER LINE
- GRAVEL FILLED SEDIMENT TRAP
- GABION MATTRESS
- GABION DIKE
- ROCK BERM
- TEMPORARY SPOIL SITE
- STABILIZED CONSTRUCTION ENTRANCE
- NATURAL AREA TO BE PRESERVED
- 8" LO — TREE PROTECTION FENCING
- 8" LO — TREE TO REMAIN

TREE ABBREVIATION LEGEND

CE	CEDAR
LO	LIVE OAK
HB	HACKBERRY
E	ELM
MA	MULTI-ACACIA
SB	SOAPBERRY

NOTES: 1. SEE SHT. C7 FOR EROSION CONTROL DETAILS.
2. ALL SLOPES ON SITE ARE 0-15%

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

REVIEWED BY: [signature] 9/25/95
DEPARTMENT OF PLANNING AND DEVELOPMENT DATE

TACE
Tricia Altamirano Consulting Engineer, Inc.

STATE OF TEXAS
TRICIA S. TICHENOR-ALTAMIRANO
62688
REGISTERED PROFESSIONAL ENGINEER
Tricia S. Tichenor Altamirano 7/7/95

OAK HILL LIBRARY
EROSION / SEDIMENTATION, TREE PROTECTION & WATER QUALITY CONTROL PLAN

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203

JOB NO.94-026.10	SCALE: 1"=30'	SHEET: C4 OF 12
DESIGNED BY: JFS		
DRAWN BY: RWH		
C:\OAKLIBR\OAK-ES.dwg		DATE: 7/7/95

SPC-94-0459C


SCALE: 1" = 30'
CONTRACTOR TO TIE 4" F.M. TO EXIST. M.H.
TOP OF RIM EL.=766.38
8" F.L. OUT=762.24
PROPOSED 4" F.L.=762.74
LOT 1
BECKETT MEADOWS SECTION TWO
BK. 84, PG. 133B
P.U.E. & DRNG. ESMT., BK. 84, PGS. 132D
DRNG. ESMT., BK. 84, PG. 133B
Proposed Electric Transformer & Meter Pad
Concrete pad
Proposed Walk
Chain Link Fence
Fiber Vaults
Proposed Fiber
Proposed Tele
Prop. Gas Mtr.
1 1/4" PE @ 2psi and 400,000 BTU/Hr Proposed Nat'l Gas
Aggregate Surface
Granite Drive
Existing Pull Box
PROPOSED 2" Yelomine FORCE MAIN
PROPOSED 45 G.P.M. LIFT STATION
N29°55'00"E 1303.97
DUMPSTER SLOPE 1/4"/ft.
ELEC. TRANSFORMER
PHASE 2 EXPANSION 6420 sf
PROPOSED 4" W.W.L.
LIBRARY 8580 sf F.F. 763.25
PHASE 2 PARKING
15' W.L. ESMT. VOL. PG.
LANDSCAPE BERM SEE LANDSCAPE PLANS FOR DETAIL
PROPOSED 8" W.L.
SIDEWALK
PROPOSED 2 1/2" W.L.
VEGETATED FILTER STRIP 0.48 AC.
PHASE 2 FIRE LANE
VEGETATED FILTER STRIP 0.24 AC. (FUTURE)
IRRIGATION AREA 0.88 AC. SEE IRRIGATION PLANS
S29°55'00"W 830.74'
N29°55'00"E 845.04'
S29°55'00"W 844.85'
LOT 1
STONECREEK
BK. 85, PGS. 6D & 7A
EXIST. 24" W.L.
24"x 12" TAP & SLEEVE W. VALVE
EXIST. 8" WWL
WOODCREEK RD. (64' R.O.W.)
12" W.L.
2 1/2" W.L.
EXIST. 8" W.L.
8"x 3" TAP & SLEEVE W. VALVE
1 1/2" WATER METER
CONVICT HILL ROAD
S59°48'08"E 473.05'
N29°55'00"E 14.01'
S29°55'00"W 14.30'
S59°50'13"E 65.11'
NOTE:
1. CONTRACTOR TO FIELD VERIFY ALL EXIST. UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONTRUCTION.
2. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN (PREPARED BY PROFESSIONAL ENGINEER) TO CITY OF AUSTIN, TRAVIS COUNTY P.I.T.D. AND ENGINEER INCONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PRIOR TO CONSTRUCTION.
LEGEND
PROPOSED 12"/8" WATER LINE
PROPOSED 2 1/2" WATER LINE
PROPOSED WASTEWATER LINE
PROPOSED FIRE HYDRANT W/ GATE VALVE
TREE ABBREVIATION LEGEND
CE CEDAR
LO LIVE OAK
HB HACKBERRY
E ELM
MA MULTI-ACACIA
SB SOAPBERRY
Revisions To This Site Plan, Clouded & Labeled Delta 3c, were completed By Caleb Flake of BHC RHODES.
SPC-94-0459C Oak Hill Library 3c Add gas line to G.F. hut
ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
REVIEWED BY:
9/25/95
DEPARTMENT OF PLANNING AND DEVELOPMENT DATE
SITE PLAN RELEASE Sheet 5 12
FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON:
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON:
under Section 660 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95
Rev. 1 Correction 1 2-18-15
Rev. 2 Correction 2
Rev. 3 Correction 3
TACE
Tricia Altamirano Consulting Engineer, Inc.
OAK HILL LIBRARY
UTILITY PLAN
1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203
JOB NO.94-026.10 SCALE: 1"=30' SHEET: C5 OF 12
DESIGNED BY: JAC
DRAWN BY: RWH
C:\OAKLIBR\OAK-W.dwg DATE: 7/7/95
STATE OF TEXAS TRICIA S. TICHENOR ALTAMIRANO 62688 REGISTERED PROFESSIONAL ENGINEER
STATE OF TEXAS CALEB J. FLAKE 118365 LICENSED PROFESSIONAL ENGINEER
SPC-94-0459C

EROSION/SEDIMENTATION CONTROL NOTES:

1. A) AN ON-SITE ENVIRONMENTAL MANAGER WILL BE IDENTIFIED AT THE PRE-CONSTRUCTION MEETING PURSUANT TO 13-7-14.

   B) IT IS A VIOLATION TO ALLOW SEDIMENT FROM A CONSTRUCTION SITE TO ENTER A CLASSIFIED WATERWAY, PURSUANT TO 13-7-14.

   C) A MID-CONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED FOR ALL PROJECTS WITHIN THE BARTON SPRINGS CONTRIBUTING ZONE. NOTIFY THE ENVIRONMENTAL INSPECTOR AT 499-2278 AT LEAST 3 DAYS PRIOR TO THE MEETING DATE.

   D) THIS PROJECT IS SUBJECT TO THE MAINTENANCE, INSPECTION, AND OPERATING PERMIT REQUIREMENTS OF THE L.D.C. CHAPTER 13-7 ARTICLE I, AS AMENDED BY ORDINANCE 920903-D.

2. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR EXCAVATION).

3. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

4. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.

5. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION F THE EROSION/SEDIMENTATION CONTROLS AND TREE-NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT, 499-2278, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE.

6. ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THAT WHICH IS SHOWN ON APPROVED PLANS MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR CITY ARBORIST AS APPROPRIATE.

7. THE 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.

8. 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 CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.

9. 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. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING DEPARTMENT AND THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT.

10. PERMANENT EROSION CONTROL:

    IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION, EXCESS SPOIL AND DEBRIS SHALL BE REMOVED AND THE CONSTRUCTION AREA SHALL BE GRADED TO THE CONTOURS AS SHOWN ON THE PLANS. THE SURFACE OF THE GROUND SHOULD BE SMOOTH WITH NO LARGE ROCKS, STUMPS, OR OTHER DEBRIS. TOPSOIL OF SANDY LOAM, LOAM, CLAY LOAM OR EQUIVALENT AND FREE OF TREE ROOTS, ROCKS GREATER THAN 2 INCHES IN DIAMETER AND OTHER DEBRIS SHALL THEN BE UNIFORMLY SPREAD OVER ALL DISTURBED AREAS TO A MINIMUM DEPTH OF 4 INCHES. THE TOPSOIL SHOULD BE COMPACTED BY TRACKING A BULLDOZER WITH CLEATED TREADS VERTICALLY ON THE SLOPES TO CREATE HORIZONTAL EROSION CHECKS IN THE SURFACE.

    RESEEDING SHALL IMMEDIATELY FOLLOW TOPSOILING WITH THE FOLLOWING MIXTURE OF GRASSES AT THE FOLLOWING RATES OF APPLICATION:

ALAMO SWITCH GRASS	3 LBS/AC OR 0.1 LBS/1000 SQ FT
LOMETA INDIAN GRASS	2 LBS/AC OR 0.1 LBS/1000 SQ FT
PREMIER SIDEOATS GRAMA	5 LBS/AC OR 0.2 LBS/1000 SQ FT
GREEN SPRANGLETOP	2 LBS/AC OR 0.2 LBS/1000 SQ FT
BUFFALO GRASS	5 LBS/AC OR 0.2 LBS/1000 SQ FT
BERMUDA GRASS	5 LBS/AC OR 0.2 LBS/1000 SQ FT
RYE GRASS	5 LBS/AC OR 0.2 LBS/1000 SQ FT
TOTAL SEEDING RATE	27 LBS/AC OR 1.2 LB/1000 SQ FT

    SEED SHALL BE APPLIED BY BROADCAST OR DRILL METHOD AND SHALL BE DISTRIBUTED EVENLY OVER THE TOPSOILED AREAS. MULCHING SHALL IMMEDIATELY FOLLOW SEED APPLICATION.

    MULCHING MAY BE ACCOMPLISHED BY A NUMBER OF METHODS AND WITH VARIOUS MATERIALS. HAY OR STRAW MATERIAL MAY BE SPREAD UNIFORMLY OVER THE GROUND EITHER BY HAND OR WITH A MULCHING OR SHREDDING MACHINE. SMALL BUSH OR TREE LIMBS WHICH ARE REMOVED DURING CONSTRUCTION MAY ALSO BE PASSED THROUGH A SHREDDER AND SPREAD EVENLY OVER THE GROUND. MULCHES SHALL COVER THE GROUND COMPLETELY TO A MINIMUM DEPTH OF 2 INCHES. LARGE CONCENTRATED ACCUMULATIONS SHOULD BE AVOIDED. FERTILIZER SHALL HAVE A COMPOSITION OF 16/20/0 AND SHALL BE APPLIED AT A RATE OF 25 LBS/ACRE. CONTRACTOR SHALL USE PELLETED OR GRANULAR SLOW RELEASE FERTILIZER, TO BE APPLIED ONCE AT PLANTING, AND ONCE AGAIN DURING THE TIME OF ESTABLISHMENT.

    THE SEEDED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS FOLLOWING PLANTING AT A RATE SUFFICIENT TO THOROUGHLY SOAK THE SOIL TO A DEPTH OF 6 INCHES. RAINFALL OCCURRENCES OF ONE-HALF INCH OR GREATER SHALL POSTPONE THE WATERING SCHEDULE FOR 1 WEEK. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE AND NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.

    UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO: THE RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE DEPARTMENT OF PLANNING AND DEVELOPMENT (INSIDE THE CITY LIMITS); OR THE INSTALLATION OF THE ELECTRIC OR WATER METER (IN THE 5 MILE ETJ), THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED FACILITY WAS CONSTRUCTED IN CONFORMITY TO THE APPROVED PLANS.

11. DEVELOPER INFORMATION:

    OWNER:

    CITY OF AUSTIN
    CYNTHIA D. JORDAN
    ARCHITECTURE MANAGEMENT DIVISION – PUBLIC WORKS
    P.O. BOX 1088
    AUSTIN, TEXAS 78767
    (512) 499-7183

    OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:

    TRICIA ALTAMIRANO CONSULTING ENGINEER
    1101 CAPITAL OF TX. HWY. S.
    BUILDING D, SUITE 210
    AUSTIN, TEXAS 78746
    (512) 328-2203

    PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE:

    CONTRACTOR:

    PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE:

    CONTRACTOR:

12. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT AT 499-2278 AT LEAST 48 HOURS PRIOR TO THE SPOILS REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

SPOILS SITE NOTES

A. THE TEMPORARY SPOILS DISPOSAL SITE AS OUTLINED ON THE EROSION CONTROL MAP. THE DEPTH OF SOIL WILL NOT EXCEED 10 FEET IN ANY AREA.

B. NO PERMANENT SPOILS DISPOSAL ON-SITE. CONTRACTOR SHALL MAKE ARRANGEMENTS AND OBTAIN PERMIT FROM THE CITY OF AUSTIN FOR OFF-SITE DISPOSAL OF SPOILS.

C. OFF-SITE DISPOSAL: THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE INSPECTOR 48 HOURS PRIOR TO THE REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL. NOTIFY INSPECTOR AT 499-2278.

STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION EXHIBIT:

CITY OF AUSTIN
STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

1. 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.

3. 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.

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

5. Protective fences shall surround the trees or group of trees, and will be located at the outer most limit of branches (dripline), or, 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 materials;

   b) root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City Arborist;

   c) wounds to exposed roots, trunk or limbs by mechanical equipment;

   d) other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires.

6. Exceptions to installing fences at tree driplines may be permitted in the following cases:

   a) where there is to be an approved grade change, impermeable paving surface tree well, or other such site development, erect the fence approximately 2 to 4 feet behind the area in question;

   b) where permeable paving is to be installed within a tree's dripline, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving installation to minimize 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 building;

   d) where there are severe space constraints due to tract size, or other special requirements, contact the City Arborist at 499-2273 to discuss alternatives.

   NOTE:?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 feet (or to the limits of lower branching) in addition to the reduced fencing provided.

8. Trees approved for removal shall be removed in a manner which does not impact trees to be preserved.

9. Any roots 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 are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.

10. Any trenching required for the installation of landscape irrigation shall be placed as far from existing tree trunks as possible.

11. No landscape topsoil dressing greater than 4 inches shall be permitted within the dripline of trees. No soil is permitted on the root flare of any tree.

12. 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 according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees available on request from the City Arborist).

14. Deviations from the above notes may be considered ordinance violations if there is substantial noncompliance or if a tree sustains damage as a result.

The following practices are recommended but not required for preservation of trees within development projects:

1. Prior to excavation or grade cutting within tree driplines, make a clean cut between the disturbed and undisturbed root zones with a rock saw or similar equipment to minimize damage to remaining roots.

2. Where any of the above exceptions to fencing at a tree's dripline result in areas of unprotected root zones (under driplines) where heavy traffic is expected, cover those areas with 4 inches of organic mulch or gravel to minimize soil compaction.

3. All grading within protected root zone areas should be done by hand or with small equipment to minimize root damage.

4. Trees most heavily impacted by construction activities should be watered deeply once a week during periods of hot, dry weather. Tree crowns should be sprayed with water periodically to reduce dust accumulation on the leaves.

5. When installing concrete adjacent to the root zone of a tree, use a plastic vapor barrier behind the concrete to prohibit leaching of lime into the root zone.

CITY OF AUSTIN GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS.

2. DESIGN PROCEDURES ARE IN COMPLETE COMPLIANCE WITH THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL.

3. SEE SHEETS 2 FOR BENCHMARK DESCRIPTIONS.

4. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF AUSTIN, CONSULTING ENGINEER, CONTRACTOR, COUNTY ENGINEER (IF APPROPRIATE), AND ANY OTHER AFFECTED PARTIES. NOTIFY P.W. & T.D., CONSTRUCTION INSPECTION DIVISION, 499-7161, AND WATER AND WASTEWATER DEPARTMENT, 477-5761, AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

5. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION, CALL CONSTRUCTION INSPECTION DIVISION, 499-7161.

6. BARRICADES, BUILT TO CITY OF AUSTIN STANDARD SPECIFICATIONS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY.

7. IF BLASTING IS PLANNED BY THE CONTRACTOR, A BLASTING PERMIT MUST BE SECURED PRIOR TO COMMENCEMENT OF ANY BLASTING.

8. ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION.

9. THE LOCATION OF ANY WATER AND/OR WASTEWATER LINES SHOWN ON THE PLANS MUST BE VERIFIED BY THE WATER AND WASTEWATER DEPARTMENT.

10. USE ONE CALL UTILITY SYSTEM: DIAL 472-2822, 48 HOURS BEFORE YOU DIG.

11. ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE.

12. CAST BRONZE SURVEY MARKERS SHALL BE PLACED IN CONCRETE IN PERMANENT, ACCESSIBLE LOCATIONS AT THE TIME OF CONSTRUCTION. THE LOCATIONS OF THE MARKERS SHALL BE INDICATED ON THE CONSTRUCTION PLANS. A MINIMUM OF ONE MARKER SHALL BE PLACED FOR EACH 20 ACRES OF THE PROJECT. REFERENCE WILL BE PLACED ON THE MARKER BY P.W. & T.D. AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE.

13. PRIOR TO START OF CONSTRUCTION OF UTILITIES, THE OWNER OR CONTRACTOR SHALL CONTACT MONTY LOWELL OF PLANNING AND DEVELOPMENT DEPARTMENT, AT 499-2882, FOR REVIEW OF UTILITY PLOT PLAN AND ISSUANCE OF A PERMIT.

14. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE OFFICE OF LAND DEVELOPMENT SERVICES, THE DESIGNING ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMITY TO THE APPROVED PLANS.

15. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 E. 6TH STREET, AUSTIN, TEXAS.

SPECIAL NOTES

1. THE SUBGRADE MATERIAL IN THE OAK HILL LIBRARY COMPLEX WAS TESTED BY RABA-KISTNER-BRYTEST CONSULTANTS, INC. DATED OCTOBER 7, 1994 AND THE DRIVEWAY & PARKING SECTIONS DESIGNED ACCORDING TO CURRENT CITY OF AUSTIN DESIGN CRITERIA. THE DRIVEWAY & PARKING SECTIONS TO BE CONSTRUCTED ARE AS FOLLOWS:

2. COMPACTED SUBGRADE – THE EXPOSED SUBGRADE SHOULD BE PREPARED BY REMOVING THE UPPER 8 INCHES OF ORGANIC SILTS, CLAYS AND ANY ROOTS OR SOFT MATERIALS AND REPLACING WITH A WELL GRADED, LOW P.I. SOIL (P.I. 4 TO 15). THE UPPER 8 INCHES OF THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH THD TEST METHOD TEX 114-E.

   IN AREAS WHERE LOOSE FILL EXISTS, THE MATERIALS SHOULD BE REMOVED AND REPLACED WITH A WELL GRADED, LOW P.I. SOIL (P.I. 4 TO 15) AND COMPACTED TO 95% IN ACCORDANCE WITH THD TEST METHOD TEX 114-E. EXCAVATED MATERIALS MAY BE REUSED BUT MUST MEET CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 201. ROOTS, ORGANICS AND OTHER UNSUITABLE MATERIAL SHOULD BE REMOVED AS WELL AS ANY ROCK GREATER THAN 6 INCHES. EXCAVATION AND COMPACTION OF THE EXISTING FILL MATERIAL SHOULD EXTEND THE FULL WIDTH OF THE DRIVEWAY & PARKING AREA. THE REMOVAL AND REPLACEMENT OF THE FILL SHOULD BE INSPECTED AND TESTED BY THE SOILS TESTING LABORATORY.

	MINIMUM THICKNESS REQUIREMENTS	
	HOT MIX ASPHALT SURFACE	CRUSHED LIMESTONE BASE
DRIVEWAY	1-1/2"	10"
DRIVEWAY (IN THE EVENT THAT THE CLAY ABOVE THE LIMESTONE IS REMOVED)	1-1/2"	8"

3. MANHOLE FRAMES, COVERS, AND WATER VALVE COVERS WILL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY A QUALIFIED CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.

4. SIDEWALK REQUIREMENTS SHOWN ON SHEET C2.

5. A CURB LAY DOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.

6. INSIDE THE AUSTIN CITY LIMITS, SIDEWALKS SHALL BE COMPLETED PRIOR TO ACCEPTANCE OF ANY TYPE I OR TYPE II DRIVEWAY APPROACHES AND/OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY. WHEN OUTSIDE THE AUSTIN CITY LIMITS, LETTERS OF CREDIT MAY BE POSTED OR OTHER SUITABLE FINANCIAL ARRANGEMENTS MAY BE MADE TO INSURE CONSTRUCTION OF THE SIDEWALKS. IN EITHER CASE, SIDEWALKS ADJACENT TO "COMMON AREAS", PARKWAYS, OR OTHER LOCATIONS ON WHICH NO BUILDING CONSTRUCTION WILL TAKE PLACE, MUST BE CONSTRUCTED PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION.

CONSTRUCTION SEQUENCING

1. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY OF AUSTIN AND TRICIA ALTAMIRANO CONSULTING ENGINEER FOR CONSTRUCTION ALONG CONVICT HILL ROAD.

2. A PRECONSTRUCTION CONFERENCE SHALL BE HELD SUBSEQUENT TO INSTALLATION OF THE INITIAL PHASE OF EROSION AND SEDIMENTATION CONTOLS TO DEMONSTRATE COMPLIANCE WITH THE EROSION AND SEDIMENTAION CONTROL MANUAL AND THE APPROVED PLANS. THIS CONFERENCE SHALL BE HELD PRIOR TO ANY START OF SITE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ARRANGE A MEETING DATE WITH GEORGE BOSTICK, HEAD OF INSPECTION OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AT 499-2278 AT LEAST THREE DAYS PRIOR TO THE MEETING TIME. THE DESIGN ENGINEER AND/OR THE PERMIT APPLICANT SHALL ALSO BE PRESENT AT THIS MEETINGS. CONTRACTOR SHALL ASSIGN REPRESENTATIVE WHO WILL BE ON CALL 24 HOURS A DAY WHILE UTILITY CONTRACTOR IS IN THE PROCESS OF TIEING INTO THE EXISTING WATER AND WASTEWATER SYSTEMS.

3. CALL PUBLIC WORKS & TRANSPORTATION DEPT., CONSTRUCTION INSPECTION AT 499-7161, 48 HOURS PRIOR TO BEGINNING ANY WORK, CALL THE ONE CALL CENTER AT 472-2822 FOR UTILITY LOCATIONS AND OBTAIN PERMIT FOR ANY WORK WITHIN CITY OF AUSTIN RIGHT-OF-WAY. CONTACT GILBERT ALVAREZ @499-7152 TO OBTAIN A STREET CUT PERMIT FOR CONVICT HILL RD. AND WOODCREEK ROAD FOR THE UTILITY CONSTRUCTION.

4. INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY SITE CLEARING AND GRUBBING. NOTIFY TRANSPORTATION AND PUBLIC SERVICES DEPARTMENT, CONSTRUCTION INSPECTION DIVISION WHEN INSTALLED. HAVE THE ENVIRONMENTAL PROJECT MANAGER CONTACT THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT TO SCHEDULE A PRECONSTRUCTION COORDINATION MEETING TO BE HELD ON SITE. REVISE EROSION CONTROLS, IF NEEDED, TO COMPLY WITH INSPECTORS' DIRECTIVES, AND REVIEW CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION CONTROL PLAN.

5. DELIVER APPROVED ROUGH CUT SHEETS TO THE CONSTRUCTION INSPECTION DIVISION OF THE TRANSPORTATION AND PUBLIC SERVICES DEPARTMENT PRIOR TO CLEARING AND GRUBBING.

6. CONSTRUCT (ROUGH CUT) PONDS TO ACT AS A SEDIMENT TRAP.

7. INSPECT AND MAINTAIN TEMPORARY CONTROLS WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED.

8. ROUGH GRADE APPROPRIATE AREAS OF SITE. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.

9. HAVE ENVIRONMENTAL PROJECT MANAGER SCHEDULE A MID-CONSTRUCTION CONFERENCE TO COORDINATE CHANGES IN THE CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF THE EROSION CONTROL PLAN AFTER POSSIBLE CONSTRUCTION ALTERATIONS TO THE SITE. PARTICIPANTS SHALL BE: THE CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR AND ENVIRONMENTAL PROJECT MANAGER. IDENTIFY ANTICIPATED COMPLETION DATE AND COORDINATE FINAL CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE WITH A CITY INSPECTOR.

10. BEGIN CONSTRUCTION OF BUILDING.

11. INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT.

12. BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.

13. REGRADE PAVED AREAS TO SUBGRADE.

14. INSURE THAT ALL UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY FIRST COURSE BASE MATERIAL ON ALL PAVED AREAS.

15. COMPLETE ALL UNDERGROUND INSTALLATIONS WITHIN THE RIGHT-OF-WAY/ON SITE PAVED AREAS.

16. INSTALL CURB AND GUTTER.

17. LAY FINAL BASE COURSE ON ALL PAVED AREAS.

18. LAY ASPHALT.

19. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.

20. INSTALL GRAVEL FILLED SEDIMENT TRAP.

21. CLEAN SEDIMENT FROM PONDS AND COMPLETE AS PER PLANS.

22. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.

23. COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED BY ITEMS 20 & 22.

GENERAL NOTES
TEXAS NATURAL RESOURCE CONSERVATION COMMISSION WATER POLLUTION ABATEMENT PLAN

1) THIS DEVELOPMENT SHALL MEET ALL APPLICABLE TEXAS WATER COMMISSION CRITERIA SET FORTH IN 31 TAC SECTION 313.4 WATER POLLUTION ABATEMENT PLAN FOR REGULATED DEVELOPMENT FOR DEVELOPMENT LOCATED ON THE RECHARGE ZONE OF THE EDWARDS AQUIFER.

2) DURING CONSTRUCTION, STORMWATER RUNOFF SHALL BE FILTERED BY SILT FENCES AND ROCK BERMS. THESE TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREAS ARE REVEGETATED AND PERMANENTLY STABILIZED. ALL TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL BE INSPECTED AFTER EVERY RAINFALL AND SHALL BE REPLACED AS NECESSARY. A ROUTINE INSPECTION OF THE CONTROLS SHALL ALSO BE ESTABLISHED FOR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.

3) PERMANENT EROSION/SEDIMENTATION CONTROL MEASURES SHALL CONSIST OF REPLANTING THE DISTURBED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SOILS AND GRASSES DISTURBED AND/OR REMOVED DURING SITE PREPARATION AND /OR CONSTRUCTION SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION UPON COMPLETION OF THE SITE.

4) THE CONTRACTOR SHALL BE REQUIRED TO IMMEDIATELY SUSPEND ALL CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER'S REPRESENTATIVE IF ANY SIGNIFICANT RECHARGE FEATURES, PREVIOUSLY UNKNOWN, ARE ENCOUNTERED. CONSTRUCTION ACTIVITIES MAY NOT BE INITIATED UNTIL THE EXECUTIVE DIRECTOR OF THE TEXAS WATER COMMISSION HAS GIVEN THE APPROVAL.

5) ANY MODIFICATIONS, AS OUTLINED IN 31 TAC SECTION 313.4(E), MUST BE APPROVED BY THE EXECUTIVE DIRECTOR OF THE TNRCC BEFORE CONSTRUCTION OF THAT MODIFICATION CAME COMMENCE.

SITE PLAN RELEASE Sheet 6 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: –
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: –
under Section 660 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ______ Correction 1 ______
Rev. 2 ______ Correction 2 ______
Rev. 3 ______ Correction 3 ______

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
LIFT STATIONS AND FORCE MAINS
GENERAL CONSTRUCTION NOTES

LIFT STATIONS:

1. THE LIFT STATION HAS AN AUTO-DIAL TELEMETRY SYSTEM CAPABLE OF AUTOMATICALLY NOTIFYING SEVERAL RESPONSIBLE PARTIES OF A MALFUNCTION OF THE LIFT STATION.

2. TYPE & METHOD OF INITIATING STAND-BY POWER TO RESTORE TO SERVICE WITHIN FOUR HOURS:

   BACK-UP POWER FOR THE LIFT STATION (AS REQUIRED BY 30 TAC §313.5(C)(3)) SHALL BE PROVIDED BY TWO SEPARATE SOURCES OF POWER. IDENTIFY SEPARATE POWER COMPANIES, INDEPENDENT FEEDER LINES, ON-SITE OR PORTABLE GENERATOR WITH AUTOMATIC SWITCH OVER CAPABILITIES.

OR AN OVERSIZED WET WELL AND COLLECTION SYSTEM MAY BE USED AS A SUBSTITUTE FOR BACKUP POWER. IT SHALL BE SIZED TO ALLOW FOR RESPONSE AND REPAIR TIME. 31 TAC §313.5(C)(3)

3. AN AUDIO-VISUAL ALARM SYSTEM (RED FLASHING LIGHT AND HORN) SHALL BE PROVIDED FOR ALL LIFT STATIONS. 30 TAC §317.3(E)(5).

4. ALL PUMPS ARE OF A NON-CLOG DESIGN, CAPABLE OF PASSING 2-INCH DIAMETER SPHERES, AND HAVE NO LESS THAN 3-INCH DIAMETER SUCTION AND DISCHARGE OPENINGS.

5. ALL PUMPS ARE SELF-PRIMING OR HAVE ACCEPTABLE PRIMING SYSTEMS.

6. NO PUMP CONTROLS (VALVES) SHALL BE LOCATED IN THE WET WELL.

7. ON-SITE HOISTING EQUIPMENT OR ACCESS FOR MOBILE HOISTING EQUIPMENT FOR REMOVAL OF PUMPS, MOTORS, VALVES, ETC., SHALL BE INCLUDED IN THE STATION DESIGN.

FORCE MAINS:

1. FORCE MAIN/PIPE SELECTION SHALL COMPLY WITH 30 TAC §313.5(C)(2)(II) [SDR 26 OR LESS] AND 30 TAC §317.3(D)(5). THE PIPE TO BE USED IS: 2" SCH 80 PVC

2. FORCE MAINS SHALL BE TESTED TO A MINIMUM PRESSURE EQUAL TO 1.5 TIMES THE MAXIMUM DESIGN PRESSURE. 31 TAC §317.3(D)(6)

3. LINE LEAK TESTING OF THE FORCE MAIN SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN TEXAS AS COMPLYING WITH 30 TAC §317.2(D)(4).

ADDITIONAL TEMPORARY EROSION/ SEDIMENTATION CONTROL REQUIREMENTS

SECTION 13-7-14(d) REQUIRES ADDITIONAL TEMPORARY EROSION AND SEDIMENTATION CONTROLS FOR DEVELOPMENT PROJECTS LOCATED WITHIN THE BARTON SPRINGS ZONE. THE EROSION/SEDIMENTATION CONTROL PLAN MUST INCLUDE NOTES THAT CONTAIN THE FOLLOWING INFORMATION:

1. DESIGNATION OF AN ENVIRONMENTAL PROJECT MANAGER WHO IS ON SITE >90% OF THE TIME, IS REQUIRED TO BE AT THE PRE-CONSTRUCTION AND MID-CONSTRUCTION MEETINGS, AND IS RESPONSIBLE FOR COMPLIANCE ON SITE OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS. THIS PERSON IS RESPONSIBLE FOR ENSURING COMPLIANCE OF THE CONTROLS DURING THE CONSTRUCTION PERIOD. SHOULD THE PROJECT MANAGER NEED TO BE ABSENT FROM THE SITE FOR AN EXTENDED PERIOD (IN EXCESS OF ONE WEEK), ECSD PERSONNEL SHOULD BE INFORMED OF THE NAME OF A DESIGNATED REPLACEMENT.

   THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN MUST SHOW TO SCALE THE LOCATION OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROLS, PERMANENT WATER QUALITY CONTROLS AND FLOOD CONTROLS. SYMBOLS USED TO SHOW CONTROLS MUST BE CLEAR AND DISTINCTIVE.

2. MODIFICATIONS AND ADDITIONS TO THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN MUST BE APPROVED BY BOTH THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT AND A REGISTERED ENGINEER EMPLOYED BY THE OWNER.

3. THE MAXIMUM LENGTH OF TIME BETWEEN CLEARING AND FINAL REVEGETATION OF A PROJECT SHALL NOT EXCEED 18 MONTHS, UNLESS EXTENDED BY THE DIRECTOR OF THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT. DISTURBED AREAS MUST BE MAINTAINED TO PREVENT EROSION AND SEDIMENT DISCHARGE TO ANY WATERWAYS OR DRAINAGE FACILITIES OFFSITE.

   (THIS DOES NOT AFFECT THE EXPIRATION OF THE SITE PLAN OR BUILDING PERMIT. THIS REQUIREMENT APPLIES TO SITES THAT HAVE SUSPENDED WORK AND ARE EXPERIENCING EROSION CONTROL PROBLEMS DUE TO DISTURBED SOIL CONDITIONS.)

4. IT SHALL BE A VIOLATION OF THE CODE TO ALLOW SEDIMENT FROM A CONSTRUCTION SITE TO ENTER A CLASSIFIED WATERWAY DUE TO A FAILURE TO MAINTAIN THE REQUIRED EROSION AND SEDIMENTATION CONTROLS OR TO FOLLOW THE APPROVED CONSTRUCTION SEQUENCE.

5. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS 6 INCHES LONG OR LONGER; 6 INCHES IN DIAMETER OR LARGER; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. WHEN SUCH A VOID IS DISCOVERED IT IS THE RESPONSIBILITY OF THE ENVIRONMENTAL PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF AUSTIN ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION.

ADDITIONAL TNRCC RULES

Additionally, all contractors conducting regulated activities associated with this proposed regulated project shall be provided with copies of this approval letter and the entire contents of the submitted WPAP so as to convey to the contractors the specific conditions of this approval. During the course of these regulated activities, the contractors shall be required to keep on-site copies of the WPAP and this approval letter.

The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection may be necessary if excessive solids are being discharged from the site.

If any abandoned wells exist on the site or are found during construction of the proposed development, they shall be plugged in accordance with the local underground water conservation district's plugging procedures, if applicable, or 30 TAC §287.50(a) of this title (relating to Standards for Plugging Wells that Penetrate Undesirable Water Zones), or an equivalent method, as approved by the Executive Director. Pursuant to 30 TAC §287.48(e), the person that plugs such a well shall, within 30 days after plugging is complete, submit a Water Well Completion and Plugging Report to the Executive Director, through the Austin Region Office and to the Barton Springs/Edwards Aquifer Conservation District.

Any drill holes resulting from core sampling on-site or down-gradient of the site shall be plugged with cement slurry, from the bottom of the hole to the top of the hole, so as to not allow water or contaminants to enter the subsurface environment.

No waste-disposal wells, new confined animal feeding operations, land disposal of Class I wastes, or use of sewage holding tanks as parts of organized collection systems shall be allowed on the recharge zone of this regulated development.

NO.	DESCRIPTION	BY	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY: TST
DATE: JANUARY, 1995

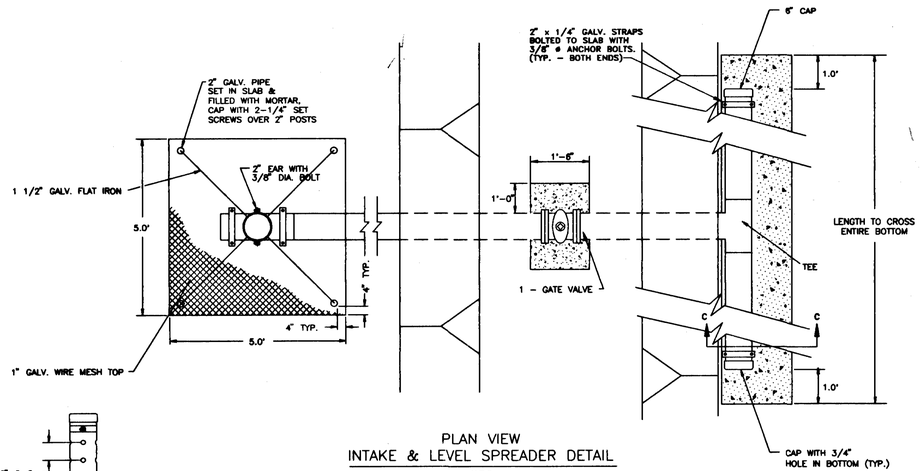
TACE

TRICIA ALTAMIRANO
CONSULTING ENGINEER, INC.
1101 CAPITAL OF TEXAS HWY. S.
BLDG. D, SUITE 210
AUSTIN, TEXAS 78746

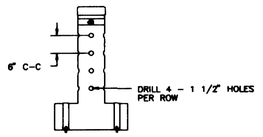
OAK HILL LIBRARY
SITE IMPROVEMENTS
GENERAL NOTES

SHEET NO. C6
OF 12 SHEETS
C:\OAKLIBR\OAK-NTS.dwg
JOB NO. 5/1/95

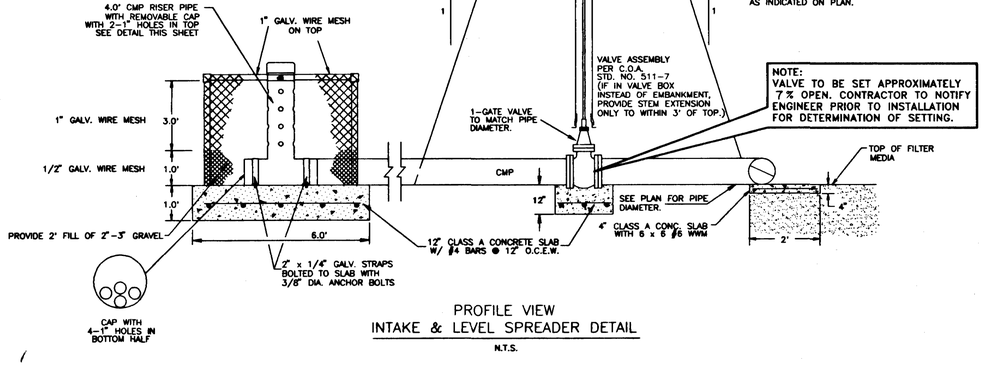
SPC-94-0459C



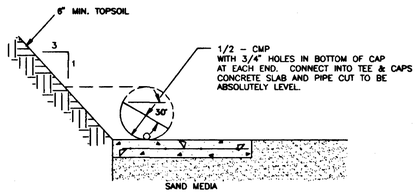
PLAN VIEW
INTAKE & LEVEL SPREADER DETAIL
N.T.S.



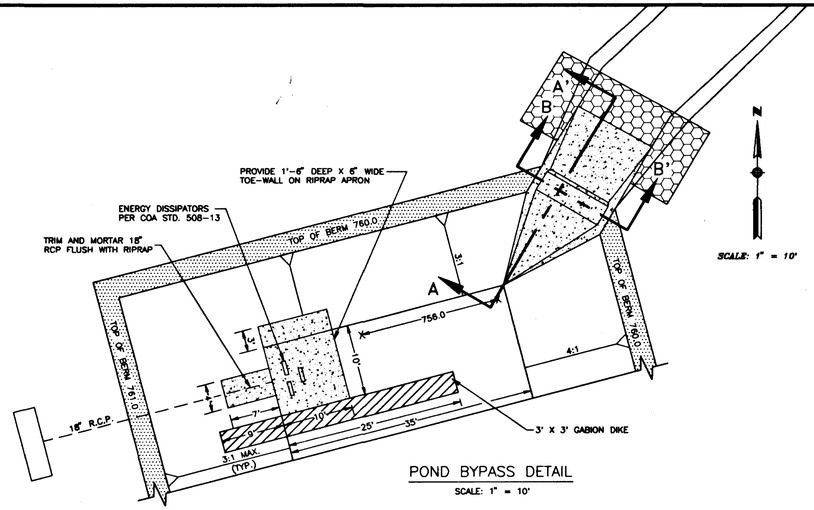
RISER PIPE DETAIL
N.T.S.



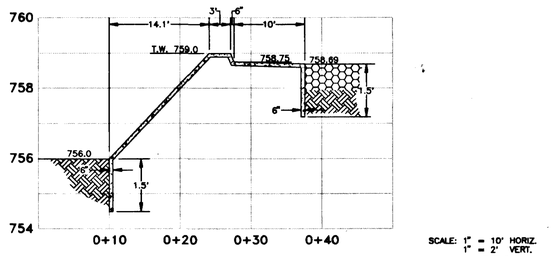
PROFILE VIEW
INTAKE & LEVEL SPREADER DETAIL
N.T.S.



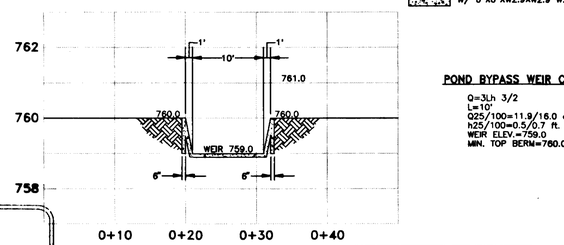
SECTION C-C
N.T.S.



POND BYPASS DETAIL
SCALE: 1" = 10'



SECTION A-A'



SECTION B-B'

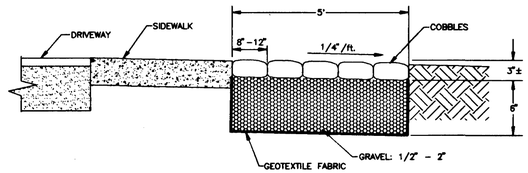
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

LEGEND

5" CLASS 'A' CONCRETE RIPRAP W/ 6"X6"XW2.9XW2.9 W.W.F.

POND BYPASS WEIR CALCULATIONS

Q=3Lh 3/2
L=10'
Q25/100=11.9/16.0 c.f.s.(SHT. C2)
h25/100=0.5/0.7 ft.
WEIR ELEV.=759.0
MIN. TOP BERM=760.0



ENTRANCE DRIVE & FUTURE FIRE LANE SEDIMENT TRAP
(N.T.S.)

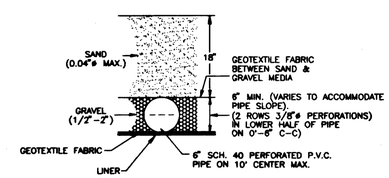
CLAY LINER SPECIFICATIONS

PROPERTY	TEST METHOD	UNIT	SPECIFICATION
PERMEABILITY	ASTM D-2434	CM/SEC	1×10^{-6}
PLASTICITY INDEX OF CLAY	ASTM D-423 & D-424	%	NOT LESS THAN 15
LIQUID LIMIT OF CLAY	ASTM D-2216	%	NOT LESS THAN 30
CLAY PARTICLES PASSING	ASTM D-422	%	NOT LESS THAN 30
CLAY COMPACTION	ASTM D-2216	%	95% OF STANDARD PROCTOR DENSITY

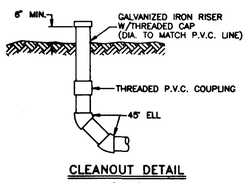
NOTE: THE CLAY LINER SHOULD HAVE A MINIMUM THICKNESS OF 12 INCHES.

GEOTEXTILE FABRIC

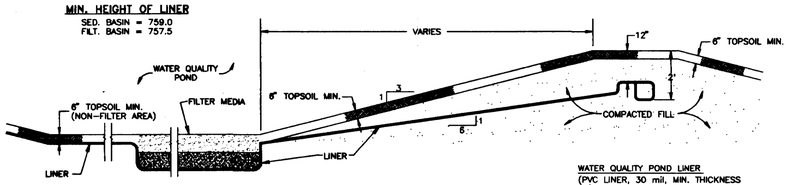
PROPERTY	TEST METHOD	UNIT	SPECIFICATION
MATERIAL	NONWOVEN GEOTEXTILE FABRIC		
UNIT WEIGHT		Oz/SQ.YD.	8 (min.)
FILTRATION RATE		IN./SEC.	0.08 (min.)
PUNCTURE STRENGTH	ASTM D-751 (MODIFIED)	LB.	125 (min.)
MULLEN BURST STRENGTH	ASTM D-751	PSI	400 (min.)
TENSILE STRENGTH	ASTM D-1682	LB.	300 (min.)
EQUIV. OPENING SIZE	US STANDARD SIEVE	NO.	80 (min.)



FILTER MEDIA UNDERDRAIN
(N.T.S.)

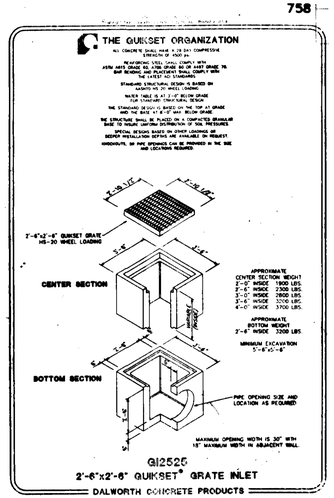


CLEANOUT DETAIL
(N.T.S.)



WATER QUALITY POND LINER DETAIL
(N.T.S.)

WATER QUALITY POND LINER
(PVC LINER, 30 mil, MIN. THICKNESS W/GEOTEXTILE FABRIC ON TOP AND BOTTOM.
LINER TO EXTEND UNDER SEDIMENTATION/FILTRATION AREA.



NOTE:
CONTRACTOR RETAINS THE OPTION OF USING EITHER CLAY OR IMPERVIOUS PVC AS THE POND LINER. LINER TO EXTEND TO WEIR ELEVATION.

SITE PLAN RELEASE Sheet 7 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-96
CASE MANAGER: GIBSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: _____
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: _____
under Section 46.0 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

REVIEWED BY:
DEPARTMENT OF PLANNING AND DEVELOPMENT — DATE 9/25/95

TACE
Tricia Altamirano Consulting Engineer, Inc.

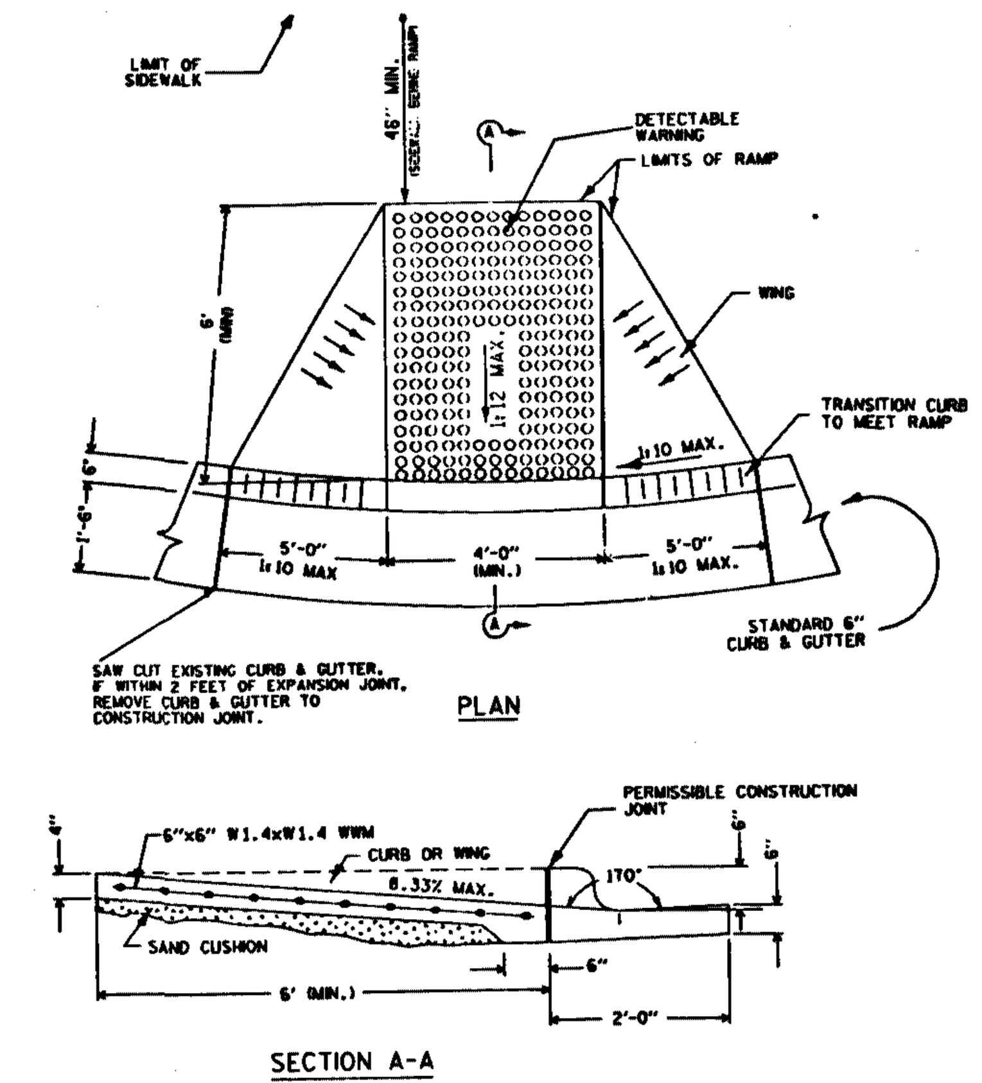
OAK HILL LIBRARY
WATER QUALITY DETAILS

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203

JOB NO.94-026.10	SCALE: AS NOTED	SHEET: C7 OF 12
DESIGNED BY:		
DRAWN BY: RWH		
C:\OAKLIBR\WQ-DTL.dwg		DATE: 8/1/95

STATE OF TEXAS — TRICIA S. ALTAMIRANO — 62258 — REGISTERED PROFESSIONAL ENGINEER

SPC-94-0459C

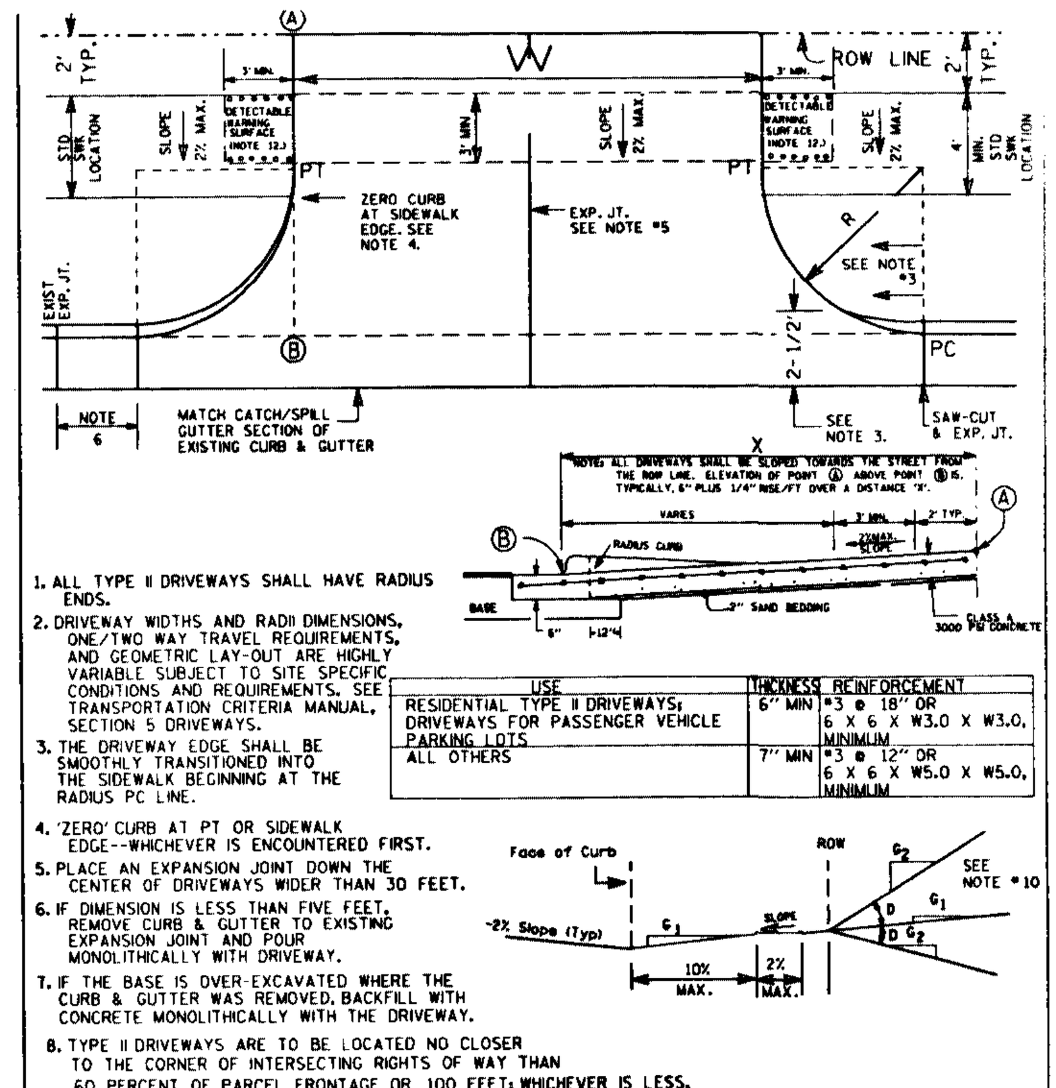


GENERAL NOTES:

1. DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN. (23mm), A HEIGHT OF NOMINAL 0.2 IN. (5 mm) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. (60 mm) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (RE: ADA SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
2. AREA OF RAMP TO INCLUDE CONTRASTING COLOR DOES NOT INCLUDE THE WINGS.
3. TYPICAL SIDEWALK WIDTHS AND CURB RADII SHOWN FOR ILLUSTRATION. REFER TO TRANSPORTATION MANUAL FOR APPROPRIATE SIDEWALK WIDTHS AND RADII.

REV. DATE	DESCRIPTION	INITIAL
		JJ
STANDARD NO. 432-4	ADOPTED 08/17/94	SCALE NONE

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
SIDEWALK CURB RAMP (TYPE 1)
APPROVED 9-13-94 DATE

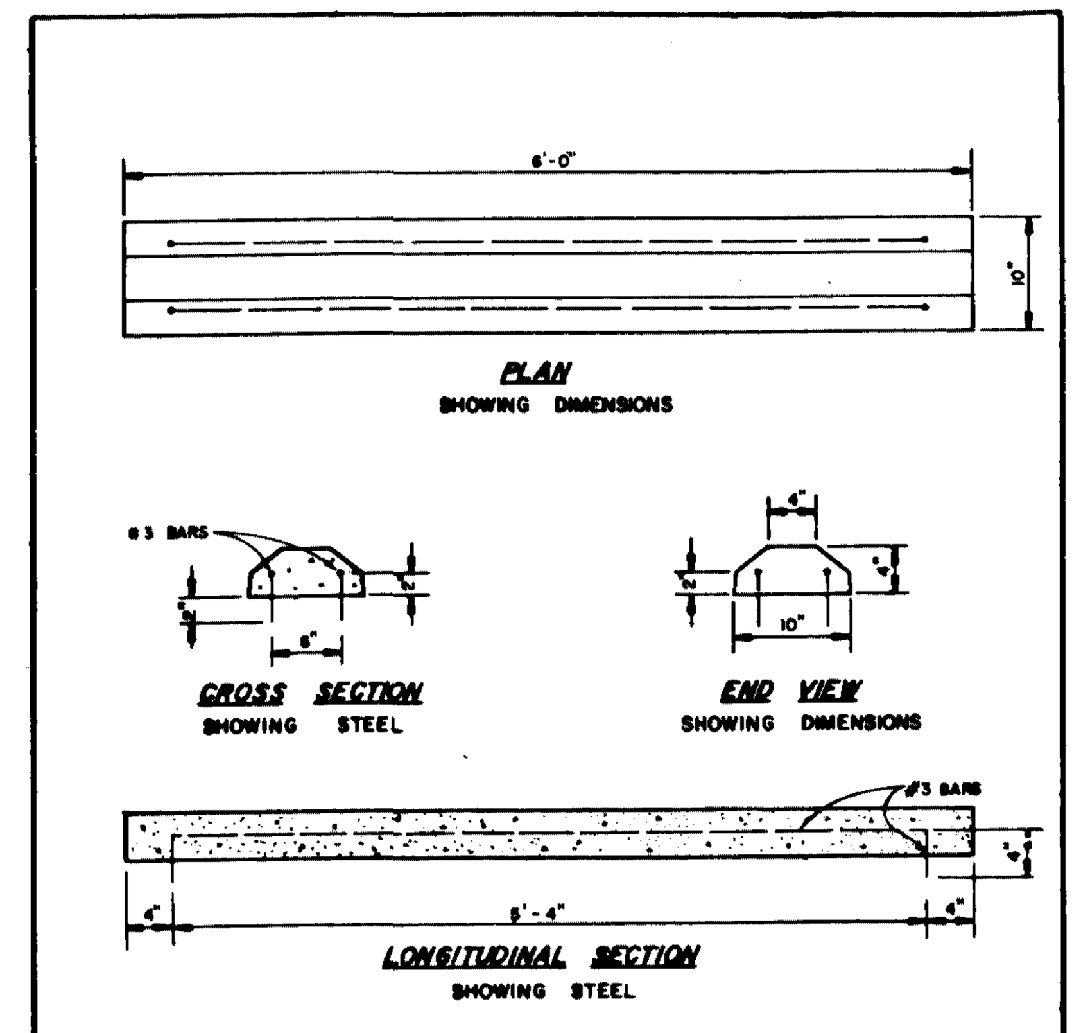


1. ALL TYPE II DRIVEWAYS SHALL HAVE RADIUS ENDS.
2. DRIVEWAY WIDTHS AND RADII DIMENSIONS, ONE/TWO WAY TRAVEL REQUIREMENTS, AND GEOMETRIC LAY-OUT ARE HIGHLY VARIABLE SUBJECT TO SITE SPECIFIC CONDITIONS AND REQUIREMENTS. SEE TRANSPORTATION CRITERIA MANUAL, SECTION 5 DRIVEWAYS.
3. THE DRIVEWAY EDGE SHALL BE SMOOTHLY TRANSITIONED INTO THE SIDEWALK BEGINNING AT THE RADIUS PC LINE.
4. 'ZERO' CURB AT PT OR SIDEWALK EDGE--WHICHEVER IS ENCOUNTERED FIRST.
5. PLACE AN EXPANSION JOINT DOWN THE CENTER OF DRIVEWAYS WIDER THAN 30 FEET.
6. IF DIMENSION IS LESS THAN FIVE FEET, REMOVE CURB & GUTTER TO EXISTING EXPANSION JOINT AND POUR MONOLITHICALLY WITH DRIVEWAY.
7. IF THE BASE IS OVER-EXCAVATED WHERE THE CURB & GUTTER WAS REMOVED, BACKFILL WITH CONCRETE MONOLITHICALLY WITH THE DRIVEWAY.
8. TYPE II DRIVEWAYS ARE TO BE LOCATED NO CLOSER TO THE CORNER OF INTERSECTING RIGHTS OF WAY THAN 60 PERCENT OF PARCEL FRONTAGE OR 100 FEET; WHICHEVER IS LESS.
9. DRIVEWAYS SHALL NOT BE CONSTRUCTED WITHIN THE CURB RETURN OF A STREET INTERSECTION.
10. WHILE THE PROPERTY OWNER REMAINS RESPONSIBLE FOR GRADE BREAKS WITHIN PRIVATE PROPERTY, THE FIRE DEPARTMENT SHOULD BE CONSULTED WHERE THE DRIVEWAY IS ESSENTIAL TO EMERGENCY VEHICLE ACCESS AND "G2" IS GREATER THAN 15%. 'G1' PLUS 'D' SHOULD NOT EXCEED 15%.
11. USE 1/2" ASPHALT BOARD OR OTHER APPROVED MATERIAL FOR CURB & GUTTER EXPANSION JOINTS, SIDEWALKS, AT THE ROW LINE, AND AT MIDWIDTH (NOTE 5.).
12. DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A BOTTOM DIAMETER OF NOMINAL 0.9 IN. AND A TOP DIAMETER OF NOMINAL 0.75 IN. AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (RE: ADA SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
13. SEE TRANSPORTATION CRITERIA MANUAL SECTION 5 FOR OTHER DRIVEWAY REQUIREMENTS.

USE	THICKNESS	REINFORCEMENT
RESIDENTIAL TYPE II DRIVEWAYS; DRIVEWAYS FOR PASSENGER VEHICLE PARKING LOTS	6" MIN.	#3 @ 18" OR 6 X 6 X W3.0 X W3.0, MINIMUM
ALL OTHERS	7" MIN.	#3 @ 12" OR 6 X 6 X W5.0 X W5.0, MINIMUM

REV.DATE	DESCRIPTION	INITIAL
STD. No. 433-2	ADOPTED 02/17/94	SCALE N.T.S.

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
TYPE II DRIVEWAY



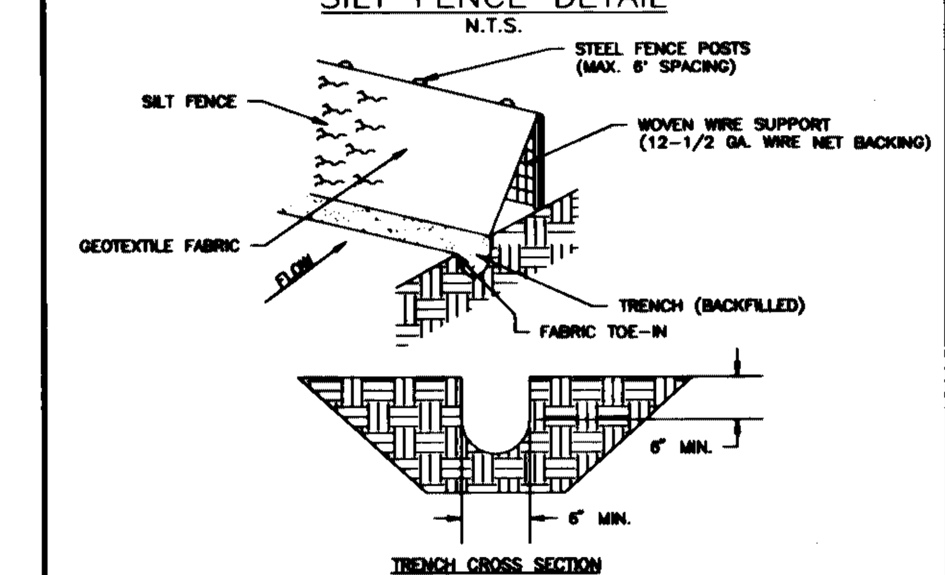
ALL CONCRETE SHALL BE CLASS A

STD. No. 439-1	2/06/86	N.T.S.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF TRANSPORTATION AND PUBLIC SERVICES
PARKING LOT BUMPER CURB
APPROVED 5/26/88 DATE

SILT FENCE DETAIL

N.T.S.

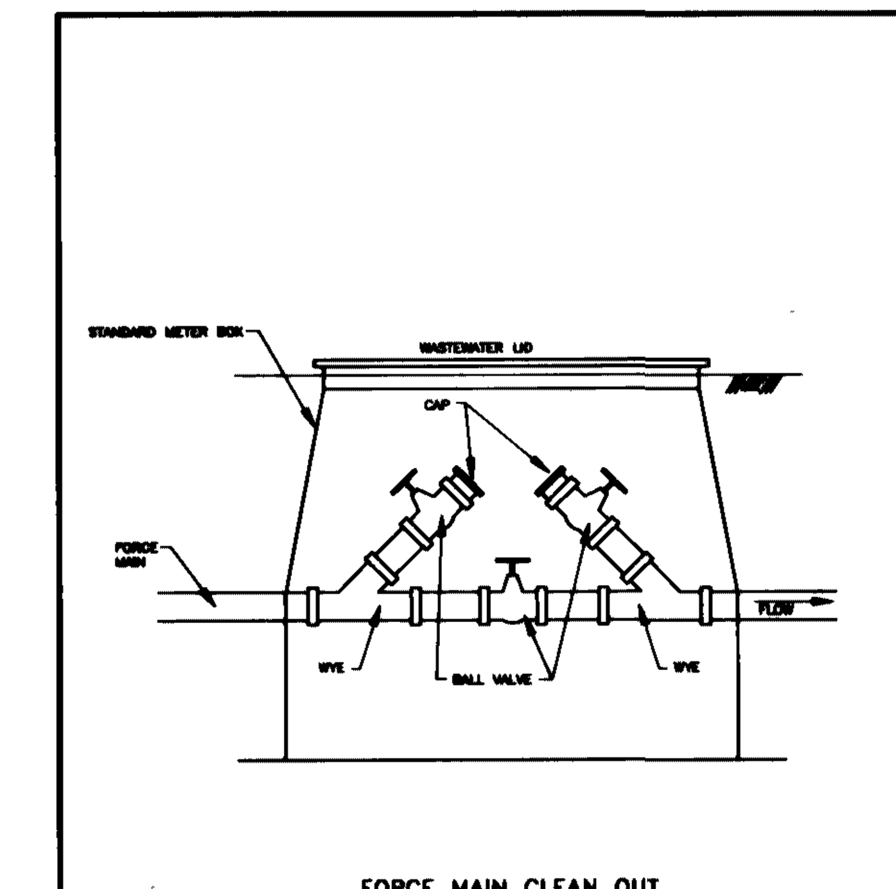


GENERAL NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHAICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TREATED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

STANDARD SYMBOL SF

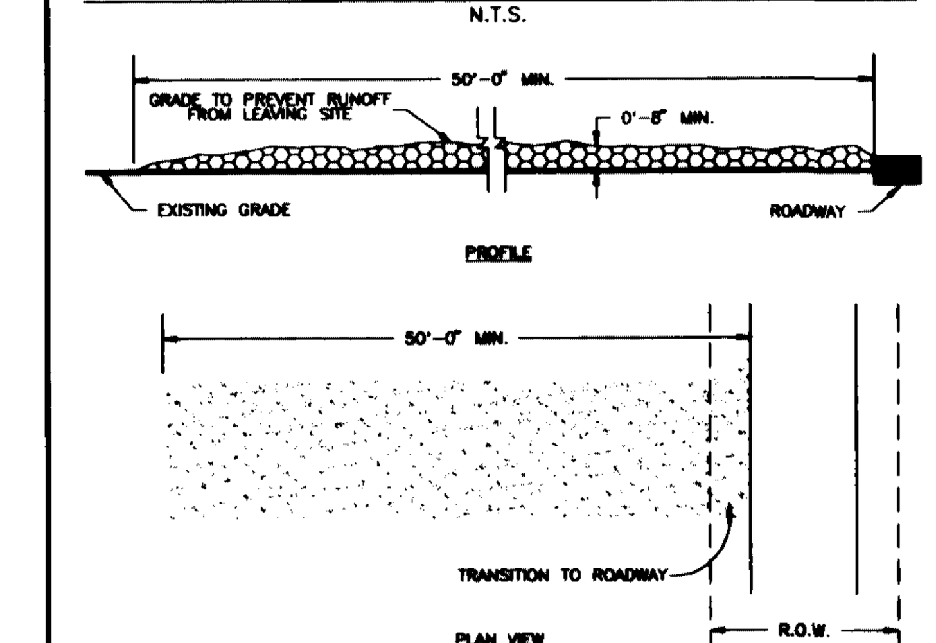
SOURCE: COA



FORCE MAIN CLEAN OUT

N.T.S.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

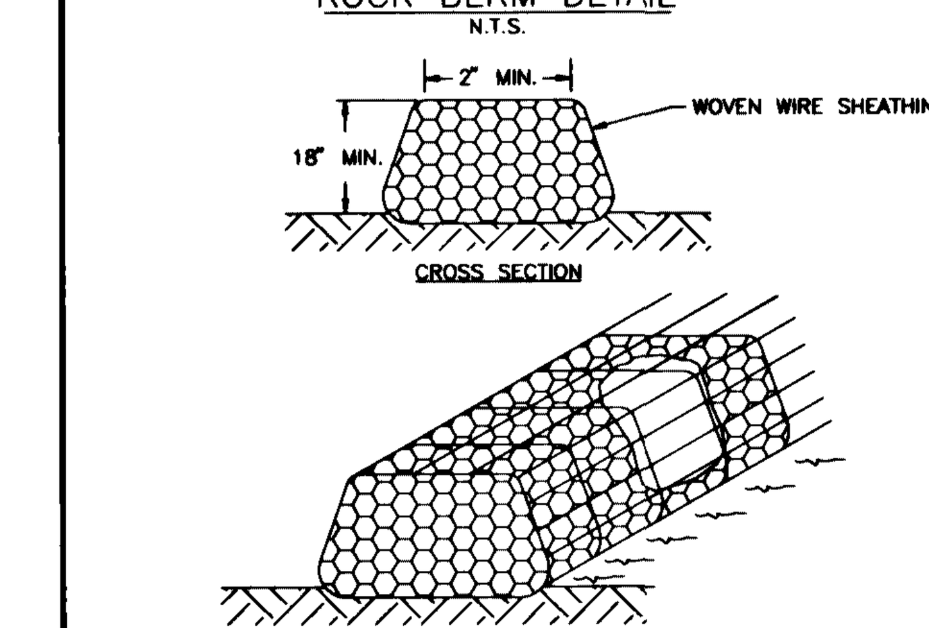


GENERAL NOTES:

1. STONE SIZE – 3 TO 5 INCH OPEN GRADED ROCK.
2. LENGTH – AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN 8 INCHES.
4. WIDTH – NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING – WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED WASHED, OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE – ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

SOURCE: COA

ROCK BERM DETAIL

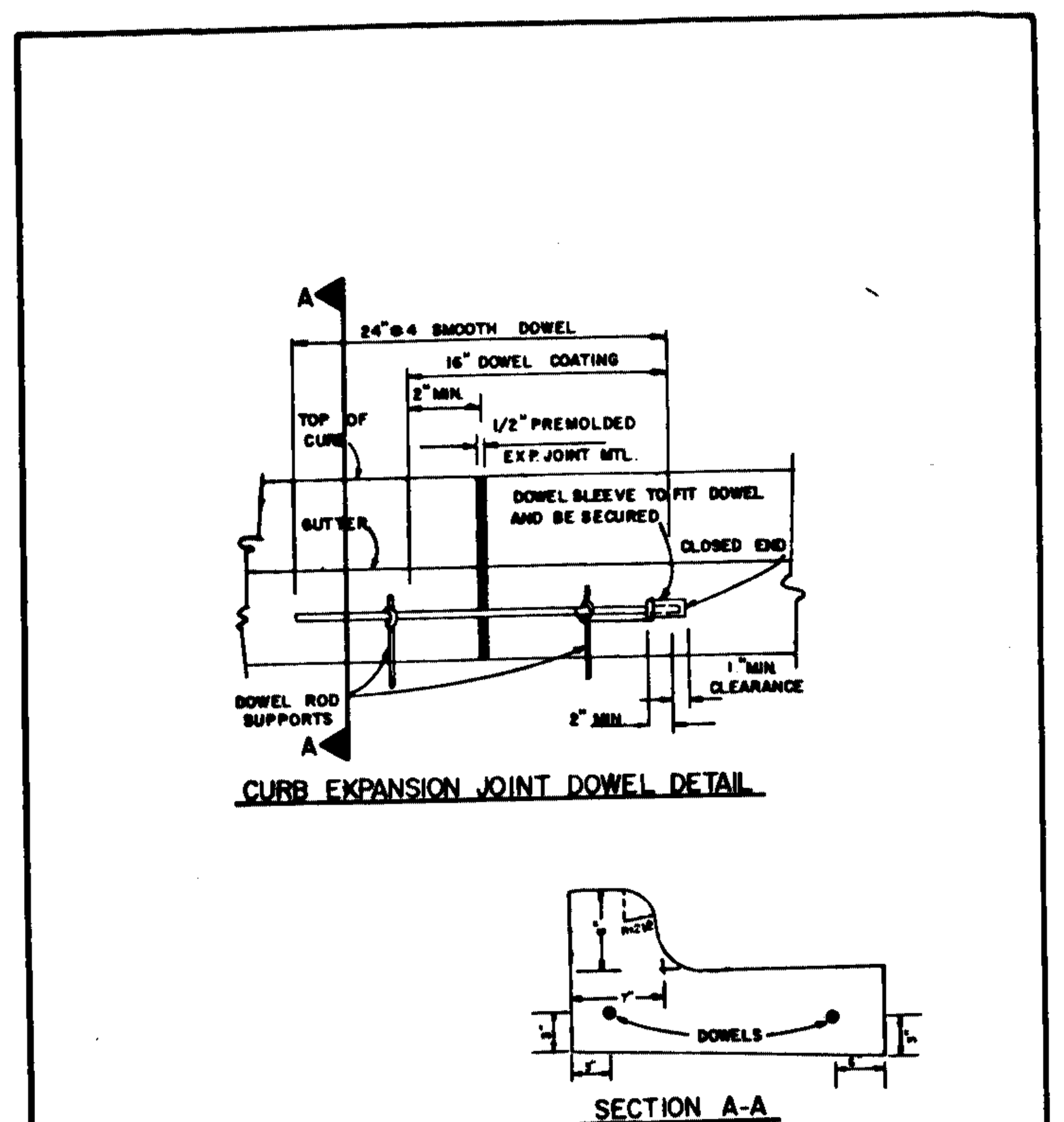


GENERAL NOTES

1. USE ONLY OPEN GRADED ROCK 4–8 INCH DIAMETER FOR STREAMFLOW CONDITIONS; USE OPEN GRADED ROCK 3–5 INCHES DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE–WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES A DEPTH EQUAL TO ONE–THIRD THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE AND IN A MANNER AS NOT TO CREATE A SILTATION PROBLEM.
5. DAILY INSPECTION SHALL BE MADE ON SEVERE SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 6 INCHES.
6. WHEN THE SITE IS COMPLETELY STABLIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

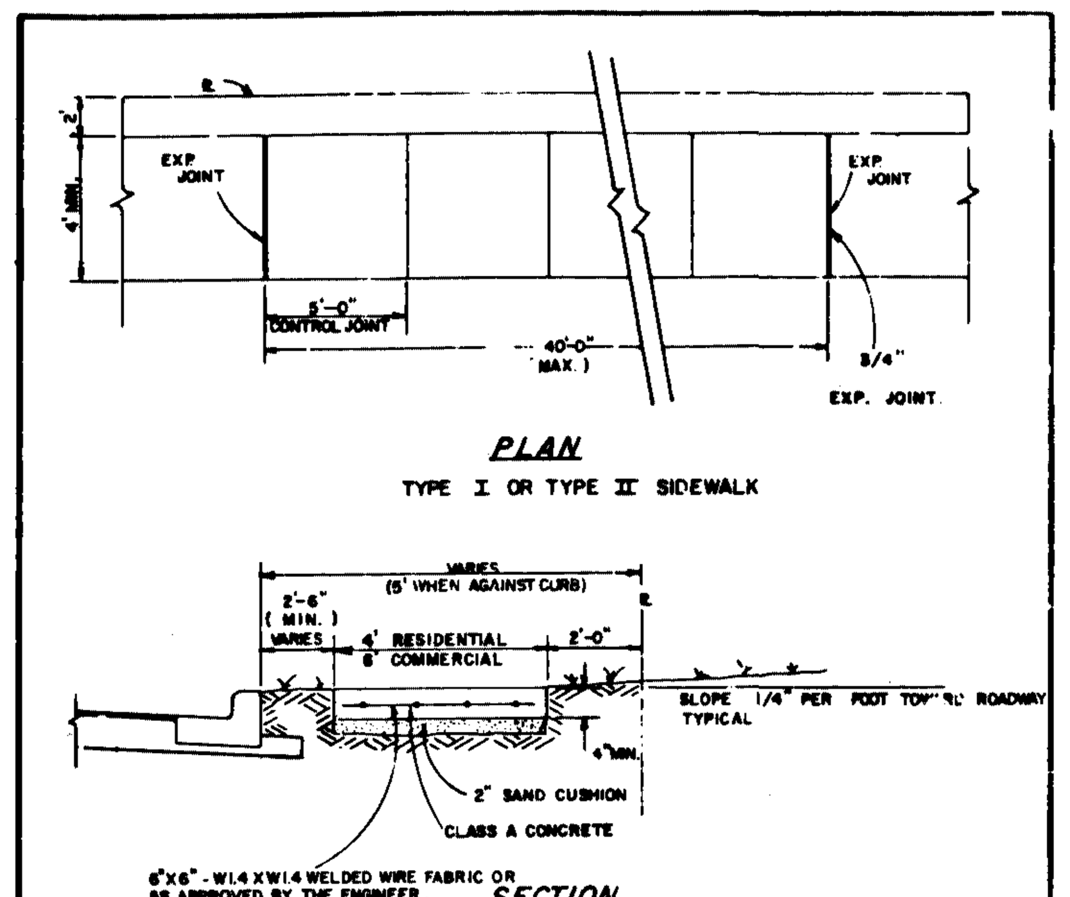
STANDARD SYMBOL RB

SOURCE: COA



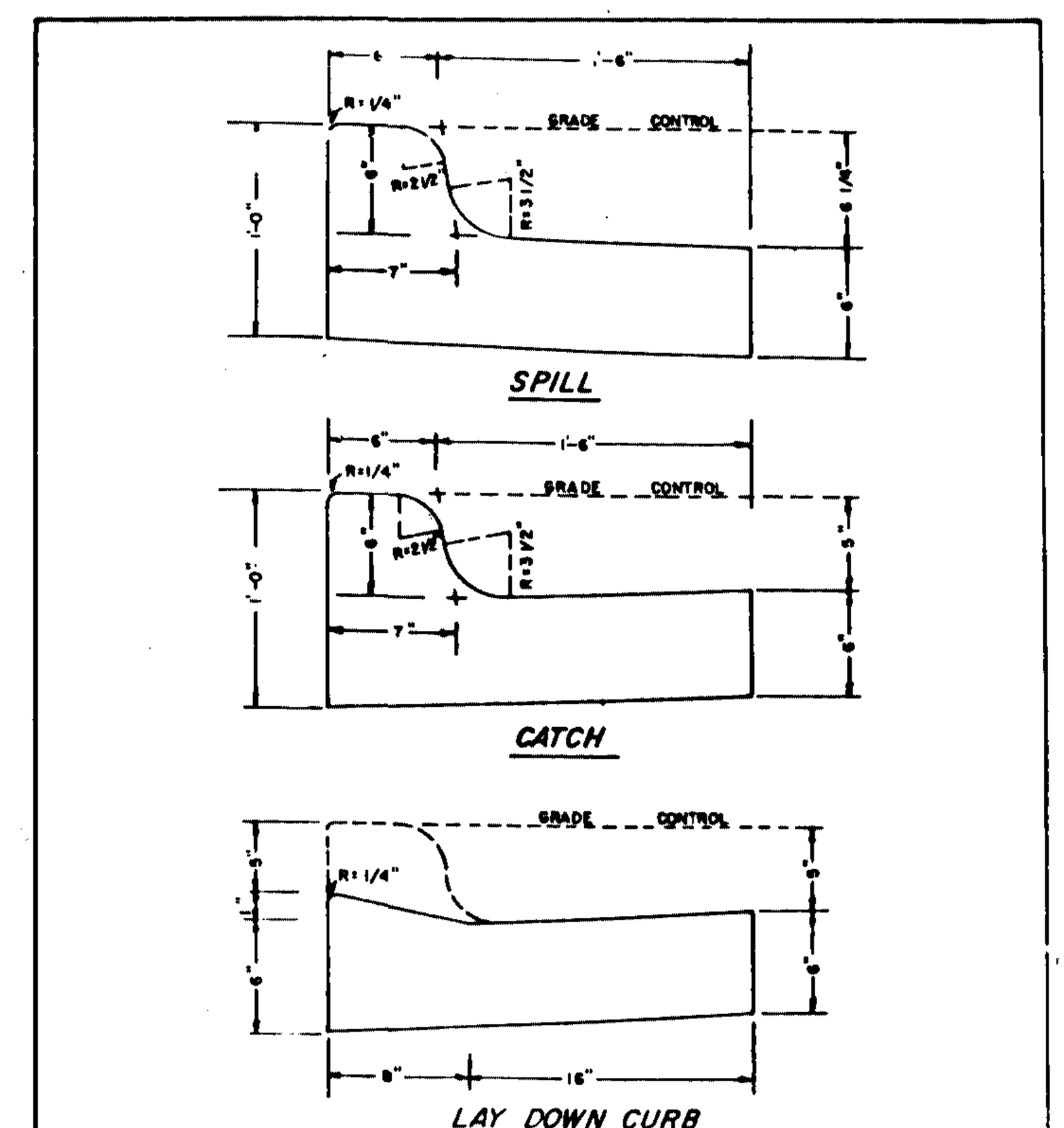
STD. No. 430-3	04/01/88	N.T.S.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF TRANSPORTATION AND PUBLIC SERVICES
CURB EXPANSION JOINT DOWEL DETAIL
APPROVED 5/26/88 DATE



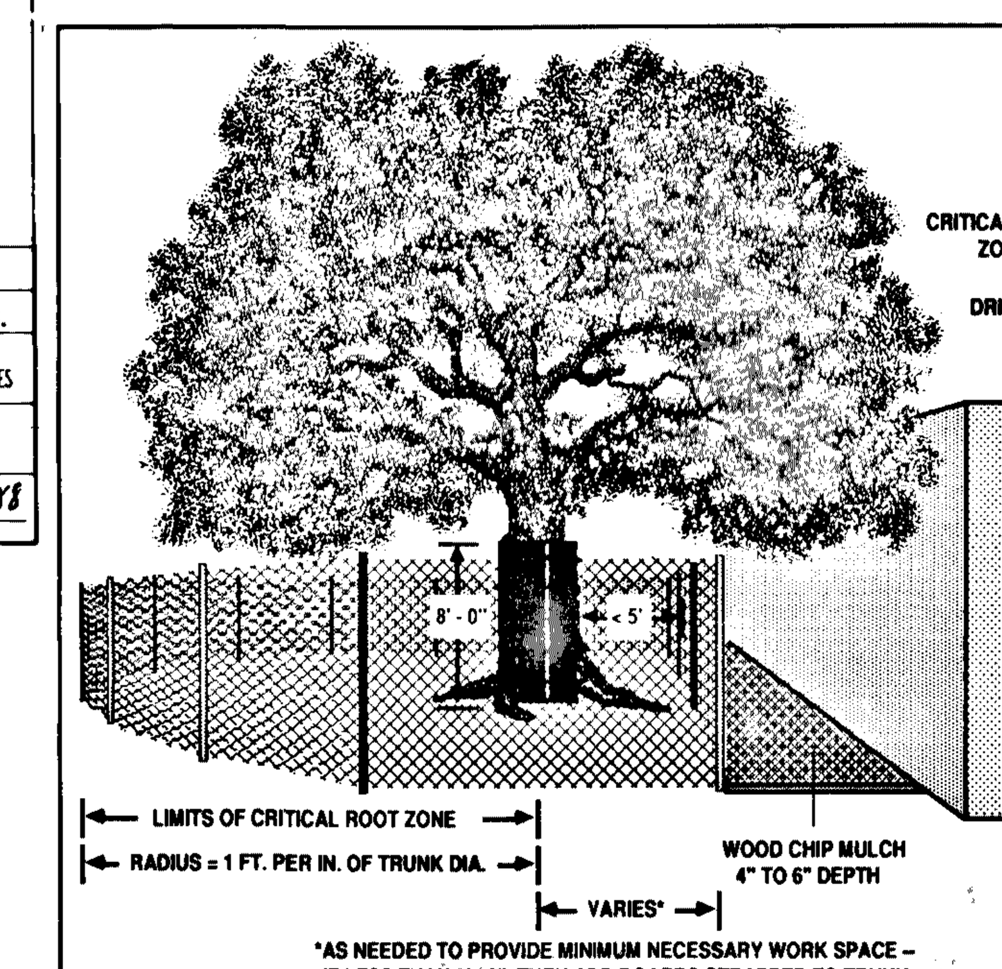
STD. No. 432-1	04/01/88	N.T.S.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF TRANSPORTATION AND PUBLIC SERVICES
SIDEWALK
APPROVED 5/26/88 DATE



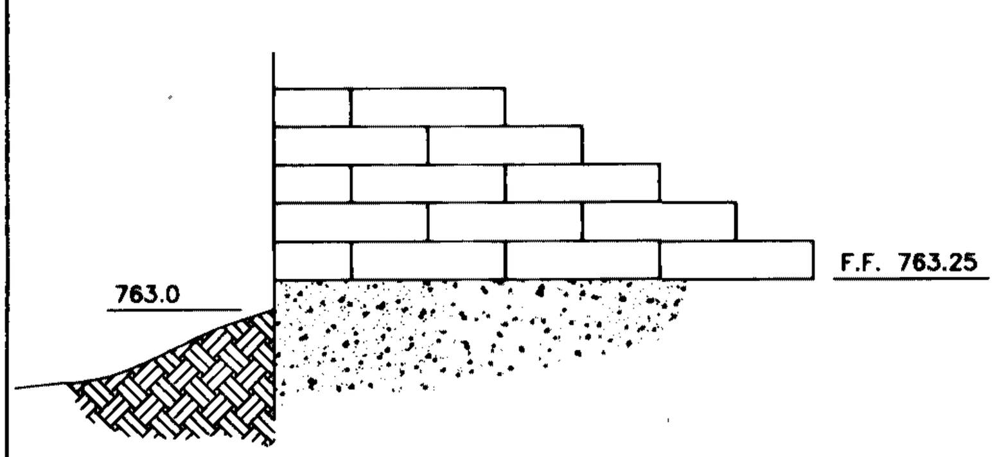
STD. No. 430-1	04/01/88	N.T.S.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF TRANSPORTATION AND PUBLIC SERVICES
CURB AND GUTTER SECTION
APPROVED 5/26/88 DATE



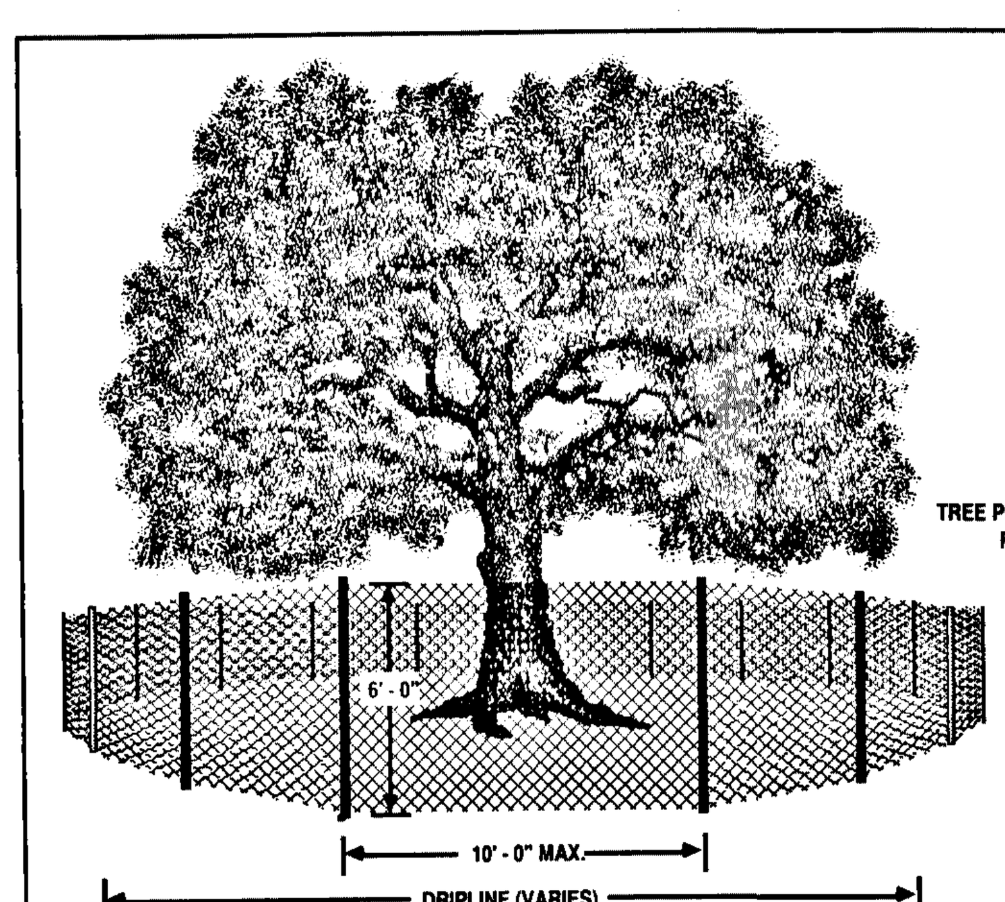
NUMBER	DESCRIPTION	INITIALS
STANDARD NUMBER 610-3	DATE ADOPTED 4-13-89	SCALE N.T.S.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TREE PROTECTION FENCE MODIFIED TYPE A
APPROVED BY 5/4/89 APPROVAL DATE



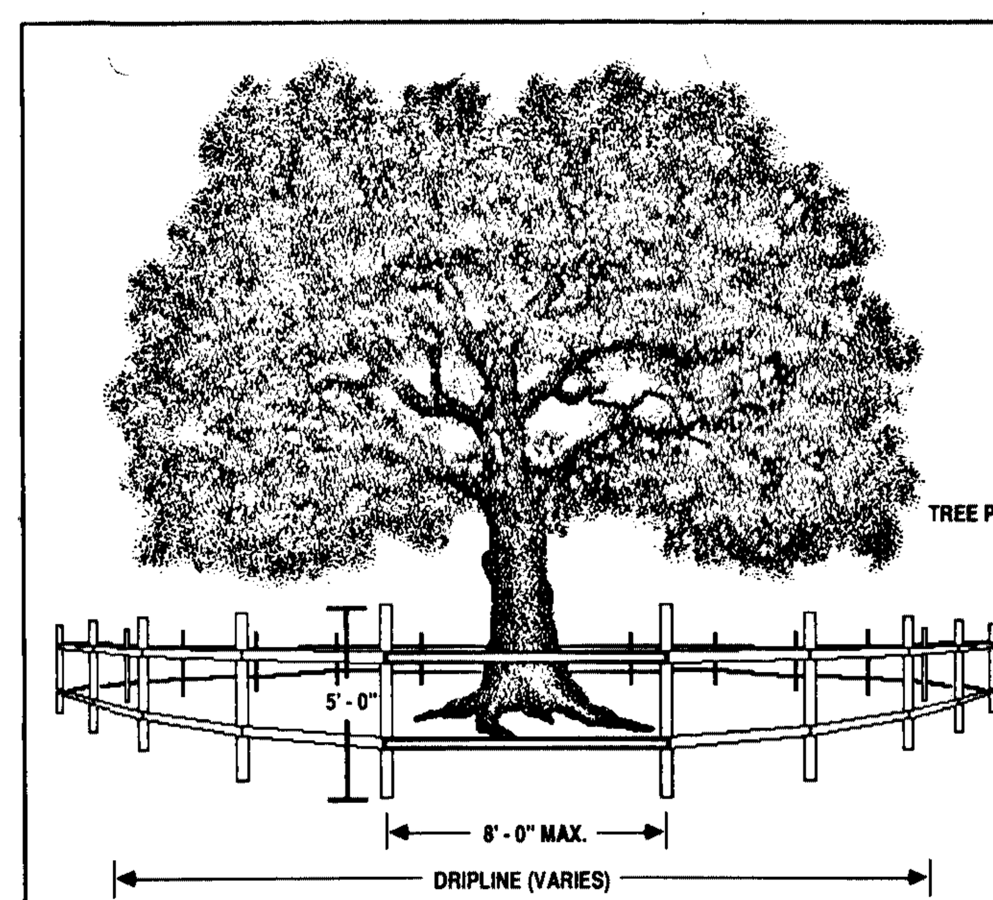
TYPICAL FINISHED GRADE AT BUILDING

N.T.S.



NUMBER	DESCRIPTION	INITIALS
STANDARD NUMBER 610-2	DATE ADOPTED 4-13-89	SCALE N.T.S.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TREE PROTECTION FENCE TYPE A CHAINLINK
APPROVED BY 5/4/89 APPROVAL DATE



NUMBER	DESCRIPTION	INITIALS
STANDARD NUMBER 610-4	DATE ADOPTED 4-13-89	SCALE N.T.S.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TREE PROTECTION FENCE TYPE B - WOOD
APPROVED BY 5/4/89 APPROVAL DATE

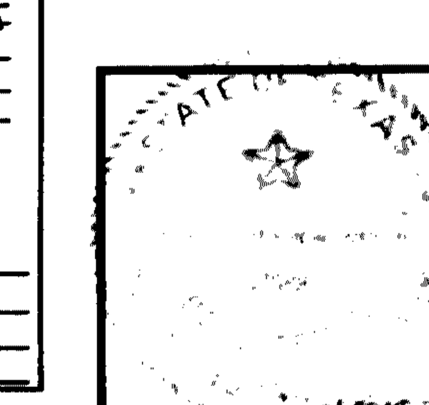
ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

REVIEWED BY:

DEPARTMENT OF PLANNING AND DEVELOPMENT 9/25/95 DATE

SITE PLAN RELEASE Sheet 8 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: –
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: –
under Section 660 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ____ Correction 1 ____
Rev. 2 ____ Correction 2 ____
Rev. 3 ____ Correction 3 ____



TACE
Tricia Altamirano Consulting Engineer, Inc.

OAK HILL LIBRARY
MISCELLANEOUS DETAILS

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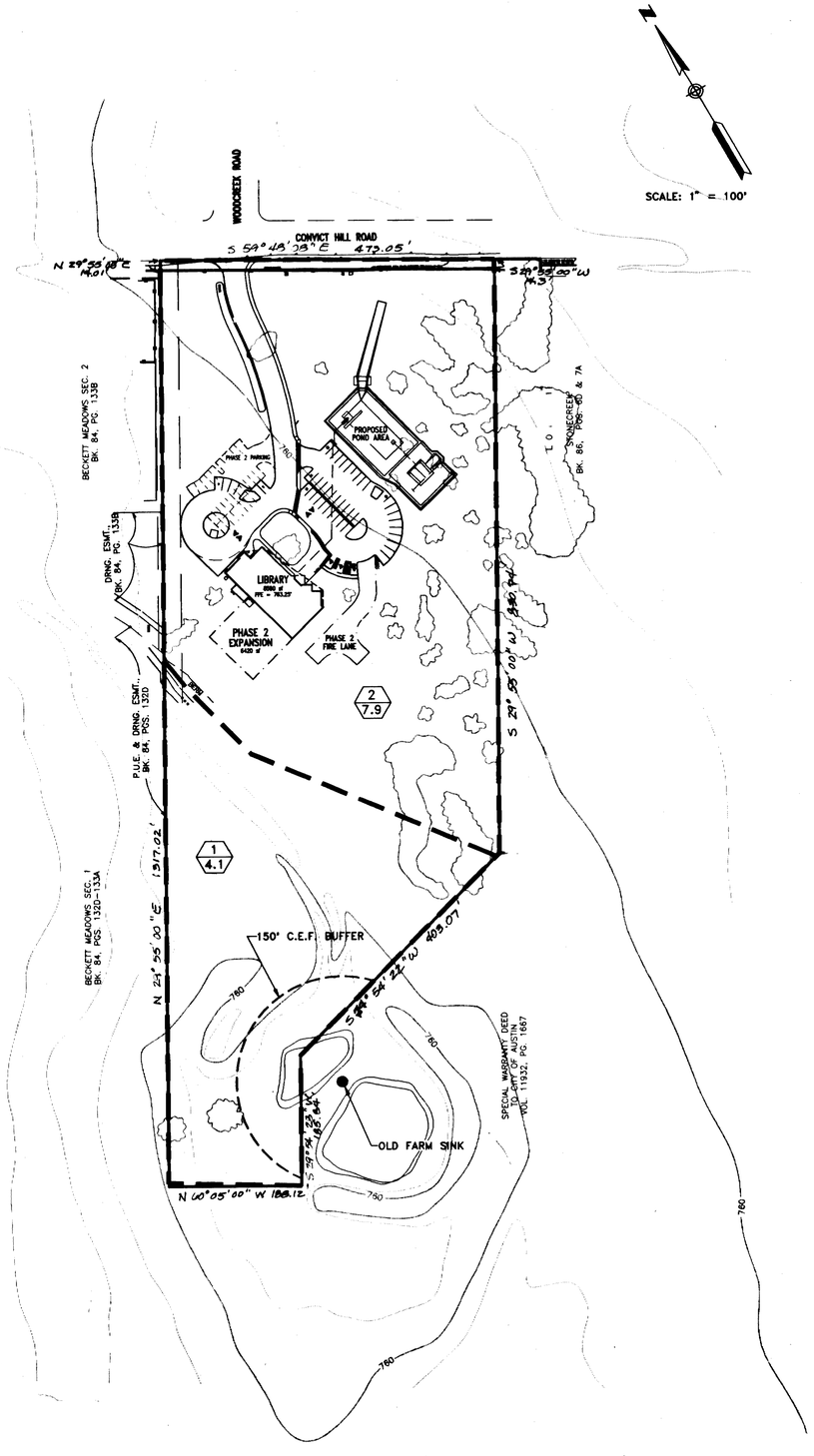
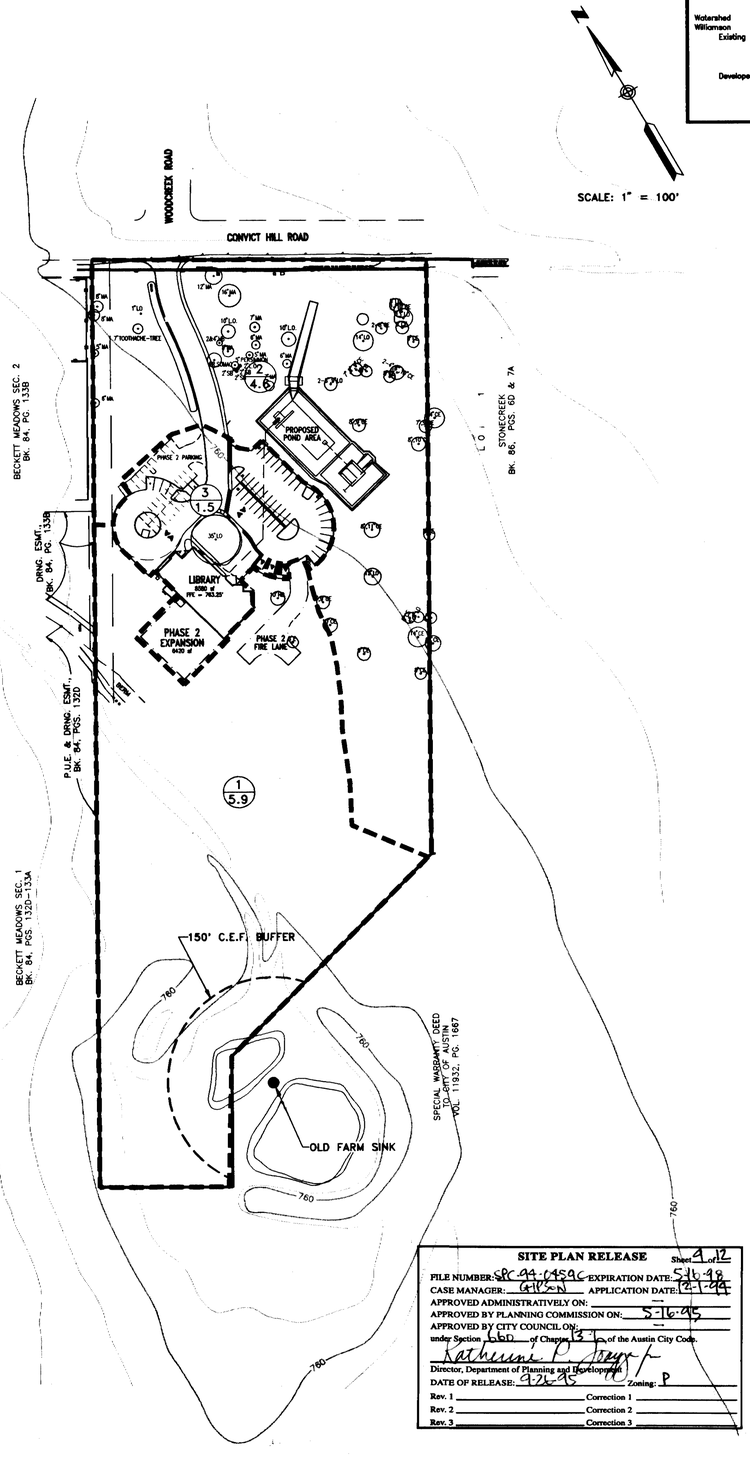
JOB NO.94-026.10	SCALE: AS NOTED	SHEET: C8 OF 12
DESIGNED BY:		
DRAWN BY: RWH		
C:\OAKLIBR\MISCDTLS.dwg		DATE: 5/1/95

SPC-94-0459C



EXISTING DRAINAGE AREAS

NOTE: SITE IS OUTSIDE LIMITS OF 100-YEAR FLOODPLAIN AS DEFINED BY FEMA PANEL #48453C0255 E



PROPOSED DRAINAGE AREAS

NOTE: SITE IS OUTSIDE LIMITS OF 100-YEAR FLOODPLAIN AS DEFINED BY FEMA PANEL #48453C0255 E

OAK HILL LIBRARY
STORMWATER RUNOFF

Watershed	Area	t(c)	Acres	C(2)	I(2)	Q(2)	C(5)	I(5)	Q(5)	C(10)	I(10)	Q(10)	C(25)	I(25)	Q(25)	C(100)	I(100)	Q(100)
Williamson																		
Existing	1	10.5	4.1	0.25	5.28	5.4	0.28	6.37	7.3	0.30	7.18	8.8	0.34	8.28	11.5	0.41	10.08	16.9
	2	27.5	7.9	0.25	3.41	6.7	0.28	4.25	9.4	0.30	4.83	11.5	0.34	5.70	15.3	0.41	7.04	22.8
	Total					12.1			16.7			20.3			26.8			39.7
Developed	1	10.5	5.9	0.25	5.28	7.8	0.28	6.37	10.5	0.30	7.18	12.7	0.34	8.28	18.8	0.41	10.08	24.4
	2	29.5	4.6	0.23	3.27	3.5	0.25	4.10	4.7	0.27	4.86	5.8	0.31	5.51	7.9	0.38	8.81	11.9
	3	5.0	1.5	0.70	6.48	6.8	0.75	7.88	8.6	0.78	8.64	10.1	0.83	9.84	12.2	0.92	11.88	16.4
	Total					18.1			23.9			28.6			36.7			52.7

OAK HILL LIBRARY
TIME OF CONCENTRATION

EXISTING CONDITION

Drng Area	Elev1	Elev2	L(ft)	S(ft/ft)	Flow Type	n	t(c)
1	762	760	200	0.010	Sheet	0.20	9.5
	760	757	100	0.030	SCF	0.10	1.0
							10.5
2	763	758	500	0.010	Sheet	0.20	23.8
	758	757	170	0.006	SCF	0.10	3.7
							27.5

DEVELOPED CONDITION

Drng Area	Elev1	Elev2	L(ft)	S(ft/ft)	Flow Type	n	t(c)
1	762	760	200	0.010	Sheet	0.20	9.5
	760	757	100	0.030	SCF	0.10	1.0
							10.5
2	763	759	350	0.011	Sheet	0.30	23.4
	759	757	300	0.007	SCF	0.10	8.1
							29.5
3	763	760	200	0.015	Sheet	0.02	0.8
	758.5	757	190	0.008	SCF	0.10	3.8
							4.3

9/25/95

CITY OF AUSTIN
PLANNING & DEVELOPMENT

LEGEND

- EXISTING DRAINAGE BOUNDARY
- 1 / 4.1 EXISTING DRAINAGE AREA W/ ACREAGE
- PROPOSED DRAINAGE BOUNDARY
- 1 / 5.9 PROPOSED DRAINAGE AREA W/ ACREAGE

TREE ABBREVIATION LEGEND

CE	CEDAR
LO	LIVE OAK
HB	HACKBERRY
E	ELM
MA	MULTI-ACACIA
SB	SOAPBERRY

SITE PLAN RELEASE Sheet 9 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIBSON APPLICATION DATE: 2-1-95
APPROVED ADMINISTRATIVELY ON: ___
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: ___
under Section 6.6D of Chapter 13-2 of the Austin City Code.
Kathrine P. Taylor
Director, Department of Planning and Development
DATE OF RELEASE: 9/25/95 Zoning: P
Rev. 1 ___ Correction 1 ___
Rev. 2 ___ Correction 2 ___
Rev. 3 ___ Correction 3 ___

PRELIMINARY NOT FOR CONSTRUCTION
STATE OF TEXAS
TRICIA S. TICHENOR ALTAMIRANO
62688
REGISTERED PROFESSIONAL ENGINEER
5/16/95

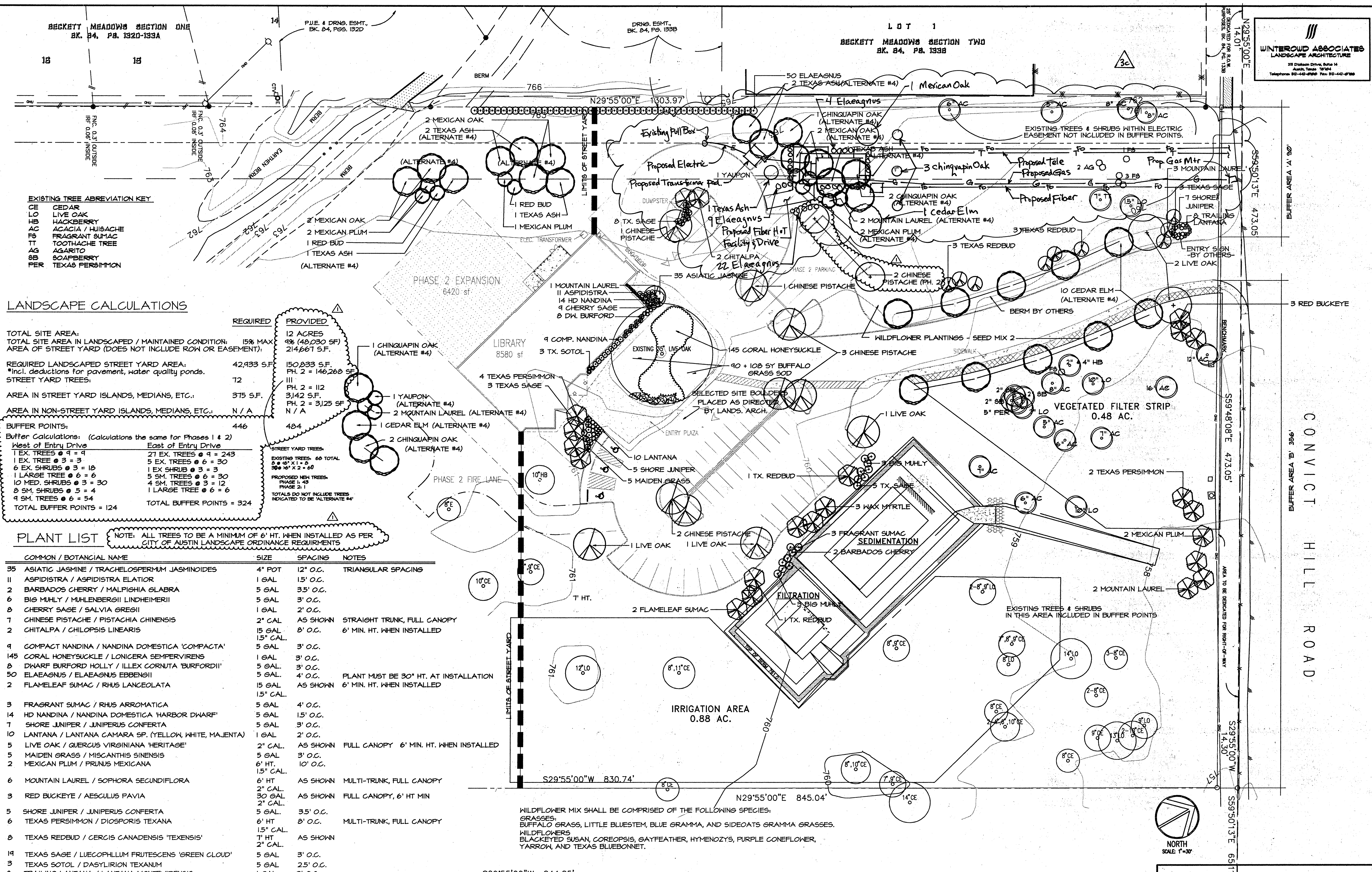
TACE
Tricia Altamirano Consulting Engineer, Inc.

OAK HILL LIBRARY
EXISTING & DEVELOPED CONDITIONS STORMWATER RUNOFF

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 327-9204

JOB NO. 94-026	SCALE: 1" = 100'	SHEET: C9 OF 12
DESIGNED BY: JFS		
DRAWN BY: RWH		
C:\OAKLIBR\OAK-DNG.dwg		DATE: 5/1/95

SPC-94-0459C



LANDSCAPE CALCULATIONS

	REQUIRED	PROVIDED
TOTAL SITE AREA:		12 ACRES
TOTAL SITE AREA IN LANDSCAPED / MAINTAINED CONDITION:	15% MAX	9% (48,030 SF)
AREA OF STREET YARD (DOES NOT INCLUDE ROW OR EASEMENT):		214,667 S.F.
REQUIRED LANDSCAPED STREET YARD AREA: *Incl. deductions for pavement, water quality ponds.	42,933 S.F.	150,833 S.F. PH. 2 = 146,268 SF
STREET YARD TREES:	72	111 PH. 2 = 112
AREA IN STREET YARD ISLANDS, MEDIANS, ETC.:	375 S.F.	3,142 S.F. PH. 2 = 3,125 SF
AREA IN NON-STREET YARD ISLANDS, MEDIANS, ETC.:	N / A	N / A
BUFFER POINTS:	446	484

Buffer Calculations: (Calculations the same for Phases 1 & 2)

West of Entry Drive	East of Entry Drive
1 EX. TREES @ 9 = 9	27 EX. TREES @ 9 = 243
1 EX. TREE @ 3 = 3	5 EX. TREES @ 6 = 30
6 EX. SHRUBS @ 3 = 18	1 EX SHRUB @ 3 = 3
1 LARGE TREE @ 6 = 6	5 SM. TREES @ 6 = 30
10 MED. SHRUBS @ 3 = 30	4 SM. TREES @ 3 = 12
8 SM. SHRUBS @ .5 = 4	1 LARGE TREE @ 6 = 6
9 SM. TREES @ 6 = 54	
TOTAL BUFFER POINTS = 124	TOTAL BUFFER POINTS = 324

STREET YARD TREES:
EXISTING TREES: 68 TOTAL
8 @ <6" X 1 = 8
30 @ >6" X 2 = 60

PROPOSED NEW TREES:
PHASE 1: 43
PHASE 2: 1

TOTALS DO NOT INCLUDE TREES INDICATED TO BE 'ALTERNATE #4'

PLANT LIST

NOTE: ALL TREES TO BE A MINIMUM OF 6' HT. WHEN INSTALLED AS PER CITY OF AUSTIN LANDSCAPE ORDINANCE REQUIRMENTS

	COMMON / BOTANCIAL NAME	SIZE	SPACING	NOTES
35	ASIATIC JASMINE / TRACHELOSPERMUM JASMINOIDES	4" POT	12" O.C.	TRIANGULAR SPACING
11	ASPIDISTRA / ASPIDISTRA ELATIOR	1 GAL	1.5' O.C.	
2	BARBADOS CHERRY / MALPIGHIA GLABRA	5 GAL	3.5' O.C.	
6	BIG MUHLY / MUHLENBERGII LINDHEIMERII	5 GAL	3' O.C.	
8	CHERRY SAGE / SALVIA GREGII	1 GAL	2' O.C.	
7	CHINESE PISTACHE / PISTACHIA CHINENSIS	2" CAL	AS SHOWN	STRAIGHT TRUNK, FULL CANOPY
2	CHITALPA / CHILOPSIS LINEARIS	15 GAL 1.5" CAL.	8' O.C.	6' MIN. HT. WHEN INSTALLED
9	COMPACT NANDINA / NANDINA DOMESTICA 'COMPACTA'	5 GAL	3' O.C.	
145	CORAL HONEYSUCKLE / LONICERA SEMPERVIRENS	1 GAL	3' O.C.	
8	DWARF BURFORD HOLLY / ILLEX CORNUTA 'BURFORDII'	5 GAL.	3' O.C.	
50	ELAEAGNUS / ELAEAGNUS EBBENGII	5 GAL.	4' O.C.	PLANT MUST BE 30" HT. AT INSTALLATION
2	FLAMELEAF SUMAC / RHUS LANCEOLATA	15 GAL 1.5" CAL.	AS SHOWN	6' MIN. HT. WHEN INSTALLED
3	FRAGRANT SUMAC / RHUS ARROMATICA	5 GAL	4' O.C.	
14	HD NANDINA / NANDINA DOMESTICA 'HARBOR DWARF'	5 GAL	1.5' O.C.	
7	SHORE JUNIPER / JUNIPERUS CONFERTA	5 GAL	3' O.C.	
10	LANTANA / LANTANA CAMARA SP. (YELLOW, WHITE, MAJENTA)	1 GAL	2' O.C.	
5	LIVE OAK / QUERCUS VIRGINIANA 'HERITAGE'	2" CAL.	AS SHOWN	FULL CANOPY 6' MIN. HT. WHEN INSTALLED
5	MAIDEN GRASS / MISCANTHIS SINENSIS	5 GAL	3' O.C.	
2	MEXICAN PLUM / PRUNUS MEXICANA	6' HT. 1.5" CAL.	10' O.C.	
6	MOUNTAIN LAUREL / SOPHORA SECUNDIFLORA	6' HT 2" CAL.	AS SHOWN	MULTI-TRUNK, FULL CANOPY
3	RED BUCKEYE / AESCULUS PAVIA	30 GAL 2" CAL.	AS SHOWN	FULL CANOPY, 6' HT MIN
5	SHORE JUNIPER / JUNIPERUS CONFERTA	5 GAL.	3.5' O.C.	
6	TEXAS PERSIMMON / DIOSPORIS TEXANA	6' HT 1.5" CAL.	8' O.C.	MULTI-TRUNK, FULL CANOPY
8	TEXAS REDBUD / CERCIS CANADENSIS 'TEXENSIS'	7' HT 2" CAL.	AS SHOWN	
19	TEXAS SAGE / LUECOPHLLUM FRUTESCENS 'GREEN CLOUD'	5 GAL	3' O.C.	
3	TEXAS SOTOL / DASYLIRION TEXANUM	5 GAL	2.5' O.C.	
8	TRAILING LANTANA / LANTANA MONTEVIDENSIS	1 GAL.	2' O.C.	
3	WAX MYRTLE / MYRICA CERIFERA	15 GAL 1.5" CAL.	8' O.C.	TREE FORM, FULL BRANCHED 6' MIN. HT. WHEN INSTALLED

ALTERNATE TREE PLANTING LIST

11	CEDAR ELM / ULMUS CRASSIFOLIA	2" CAL.	30' O.C.	CONTAINER GROWN
6	CHINQUAPIN OAK / QUERCUS MUHLENBERGII	1.5" CAL.	30' O.D.	
6	MEXICAN OAK / QUERCUS POLYMORPHA	2" CAL.	30' O.C.	
5	MEXICAN PLUM / PRUNUS MEXICANA	30 GAL.	10' O.C.	2" CAL.
4	MOUNTAIN LAUREL / SOPHORA SECUNDIFLORA	6' HT.	10' O.C.	
7	RED BUD / CERCIS TEXENSIS	2" CAL.	10' O.C.	MULTI-TRUNK, LOCALLY GROWN
7	TEXAS ASH / FRAXINUS TEXENSIS	2" CAL.	30' O.C.	LOCALLY GROWN, CONTAINER
2	YAUPON / ILLEX VOMITORIA	2" CAL.	10' O.C.	MULTI-TRUNK, FEMALE

TREES IDENTIFIED W/ THIS SYMBOL ARE POTENTIAL GRANT-FUNDED TREES, ALTERNATE #4
THESE TREES ARE NOT INCLUDED IN LANDSCAPE CALCULATIONS.

WILDFLOWER MIX SHALL BE COMPRISED OF THE FOLLOWING SPECIES:
GRASSES:
BUFFALO GRASS, LITTLE BLUESTEM, BLUE GRAMMA, AND SIDEOATS GRAMMA GRASSES.
WILDFLOWERS
BLACKEYED SUSAN, COREOPSIS, GAYFEATHER, HYMENOZYS, PURPLE CONEFLOWER, YARROW, AND TEXAS BLUEBONNET.

CERTIFICATION

I, L. DIANE WINTEROWD, A PROFESSIONAL LANDSCAPE ARCHITECT, DO HEREBY CERTIFY THAT ALL INFORMATION SHOWN IS TRUE AND ACCURATE AND THAT THIS PLAN SATISFIES THE WRITTEN REQUIREMENTS OF THE LANDSCAPE REGULATIONS, CHAPTER 13-7, ARTICLE III, OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE, AS AMENDED BY ORDINANCE 940915-H.

[signature] 8/28/95 above ↗
SIGNATURE DATE SEAL

WINTEROWD ASSOCIATES
LANDSCAPE ARCHITECTURE

ARCHITECTURE + PLUS
1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-3424
FAX (512) 328-5384

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

LANDSCAPE PLAN

ISSUE DATE: APRIL 24, 1995
DRAWN BY: DATE:
CHECKED BY: DATE:

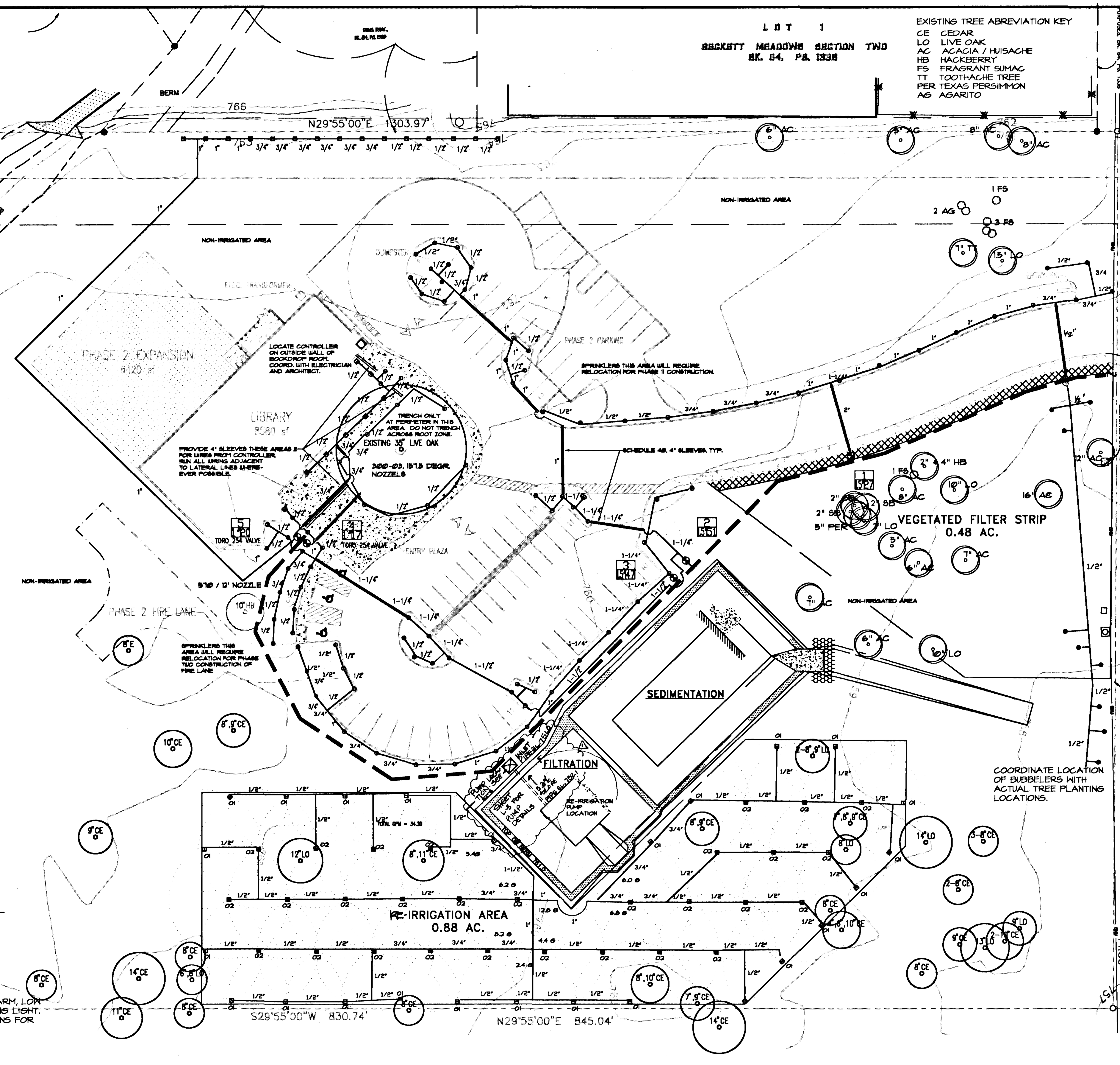
REVISIONS

NO.	DATE	REMARKS
1	7/13/95	ADDED PHASE 2 TREES. ADDED NOTE REQU. ALL TREES MIN. 6' INSTALL'D HEIGHT. RVSD. CALCS.

SHEET L1 OF 3
10 of 12
PROJECT NUMBER: 942402

SITE PLAN RELEASE Sheet 10 of 12
FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98 5-16-2008
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: –
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: –
under Section 660 of Chapter 13-1 of the Austin City Code.
[signature]
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 Correction 3 C 2.18.15
Rev. 2 Correction 2
Rev. 3 Correction 3

SPC-94-0459C



LEGEND

●◐◔◕	12' SPRAYS, TORO 570 OR EQUAL
⊕◑◔◕	STREAM ROTORS, TORO 300 SERIES, NOZZEL AS SHOWN, OR EQ.
	END STRIP SPRAY, TORO 570 OR EQ.
	SIDE STRIP SPRAY, TORO 570 OR EQ.
▼	TREE BUBBLER, TORO FB-.50-PC OR EQ.
▫ ▪	HUNTER PGP ROTORS, #1 NOZZEL PART CIRCLES #2 NOZZEL FOR FULL CIRCLES (OR EQ.) - RE-IRRIGATION AREA
	REMOTE CONTROL VALVE
	QUICK COUPLING VALVE
	DOUBLE CHECK BACKFLOW PREVENTER
	FLUSH VALVE
	GATE VALVE
	VALVE ID / NUMBER/SIZE/GALLONS
	SLEEVE
	MAIN LINE
	LATERAL LINE
◘	TORO VISION II 6 STATION CONTROLLER, OR EQ. W/ WATER CONSERVATION CONTROL, DUAL PROGRAMING, W/ RAIN SENSOR.

RE-IRRIGATION AREA DATA

TOTAL VOLUME OF WATER TO APPLY (REQUIRED): 12,031 CF / 90,112 GAL.

APPLICATION RATE AS DESIGNED: 37.4 GPM / 2,244 GPHour

HOURS REQUIRED TO EMPTY POND OF REQUIRED VOLUME: 40.16

MAXIMUM RUN CYCLE: 9 HOURS (20,196 GAL.) X 5 = 100,980 GAL.

MINIMUM OFF CYCLE BETWEEN RUNS: 6.75 HOURS

TOTAL POND EMPTY WITHIN REQUIRED 72 HOURS.

AVERAGE PRECIPITATION RATE = .089 IN/HOUR

INFORMATION PER NOZZEL TYPE:

01 = 29' RADIUS THROW
+/- 30' SPACING
.6 GPM
PRECIPITATION RATE .08 IN/HR
USED FOR 180 & 135 DEGREE ARCS

02 = 30' RADIUS THROW
+/- 30' SPACING
.8 GPM
PRECIPITATION RATE .10 IN/HR
USED FOR 360 DEGREE ARCS

FORMULA FOR CALCULATING PRECIPITATION RATE (TRIANGULAR SPACING)

$$\frac{(\text{GPM OF FULL HEAD})^{*} \times 96.25}{\text{HEAD SPACING SQUARED} \times .866} = \text{INCHES PER HOUR}$$

* SUBSTITUTE GPM OF FULL HEAD DIVIDED BY PART CIRCLES AS REQUIRED

SEE SHEET L-3 FOR PUMP AND IRRIGATION DETAILS

PUMP INFORMATION

PUMP TO BE A SKID-N-PUMP ASSEMBLY AS PROVIDED BY GREENSCAPE PUMP SERVICES, INC. OF P.O. BOX 934, COPPELL TEXAS, 75019, 214-393-0346, OR EQUAL.

PUMP ASSEMBLY TO INCLUDE 2 3HP SUBMERSIBLE TURBINE PUMPS AND MOTORS CAPABLE OF PROVIDING 34 GPM AT 80 PSI. PUMP ASSEMBLY TO BE CONTAINED WITHIN A STAINLESS STEEL SKID AND CAGE ASSEMBLY.

CONTROL PANEL TO INCLUDE INDIVIDUAL MOTOR STARTERS AND RELAYS, AUTOMATIC OR MANUAL OVERIDE CAPABILITIES, LIGHTNING AND SURGE PROTECTION, SAFETY ALARM, LOW LEVEL FLOAT SWITCH W/ TIME DELAY START AND 0-100 HR. OPERATION W/ INDICATING LIGHT. PLUS ALL OTHER APPERTENANCES AND EQUIPMENT AS SPECIFIED. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION NOTES

1. ADJUSTABLE FLOW CONTROLS SHALL BE REQUIRED ON CIRCUIT REMOTE CONTROL VALVES AND PRESSURE REGULATION COMPONENTS SHALL BE REQUIRED WHERE STATIC PRESSURE EXCEEDS MANUFACTURER'S RECOMMENDED OPERATING RANGE.

2. VALVE AND CIRCUITES SHALL BE SEPARATED BASED ON WATER USE, SO THAT TURF AREAS CAN BE WATERED SEPARATELY FROM SHRUB AND GROUND COVER AREAS.

3. SPRINKLER HEADS SHALL HAVE MATCHED PRECIPITATION RATES WITHIN EACH CONTROL VALVE CIRCUIT.

4. SERVICEABLE CHECK VALVES SHALL BE REQUIRED WHERE ELEVATION DIFFERENTIAL MAY CAUSE LOW HEAD DRAINAGE, ADJACENT TO PAVING AREAS.

5. SPRINKLER HEAD SPACING SHALL BE DESIGNED FOR HEAD TO HEAD COVERAGE OR HEADS SHALL BE SPACED AS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUSTED FOR PREVAILING WINDS. THE SYSTEM SHALL BE DESIGNED FOR MINIMUM RUN-OFF AND MINIMUM OVERSPRAY ONTO NON-IRRIGATED AREAS, SUCH AS PAVING OR STRUCTURES.

6. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A CONTROLLER CAPABLE OF DUAL OR MULTIPLE PROGRAMMING. CONTROLLERS SHALL HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM, INCLUDING THE CAPABILITY OF BEING SET TO WATER EVERY FIVE DAYS. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A RAIN SENSOR SHUT-OFF DEVICE.

7. IRRIGATION CONSTRUCTION PLANS SHALL INCLUDE A WATER BUDGET. A LAMINATED COPY OF THE WATER BUDGET SHALL BE PERMANENTLY INSTALLED INSIDE THE IRRIGATION CONTROLLER DOOR. WATER BUDGET SHALL INCLUDE, A: ESTIMATED MONTHLY WATER USE IN GALLONS PER APPLICATION, AND THE AREA S.F. IRRIGATED; B: PRECIPITATION RATES FOR EACH VALVE CIRCUIT; C: MONTHLY IRRIGATION SCHEDULE FOR THE PLANT ESTABLISHMENT PERIOD (FIRST THREE MONTHS) AND RECOMMENDED YEARLY WATERING SCHEDULE, INCLUDING SEASONAL ADJUSTMENTS; AND D: LOCATION OF EMERGENCY IRRIGATION SYSTEM SHUT-OFF VALVE.

8. THIS LANDSCAPE IRRIGATION PLAN HAS NOT BEEN REVIEWED OR APPROVED BY THE CITY OF AUSTIN. COMPLIANCE WITH IRRIGATION REQUIREMENTS WILL BE DETERMINED AT THE TIME OF INSPECTION. THIS PLAN IS PRESENTED FOR THE PURPOSE OF COMPLYING WITH THE WATER QUALITY REGULATIONS OF LDC, CHAPTER 13-7-ARTICLE I AS AMENDED BY ORDINANCE #920903-I?.

SITE PLAN RELEASE Sheet 11 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIBSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 660 of Chapter 13-1 of the Austin City Code.
Katherine P. Loayza
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ______ Correction 1 ______
Rev. 2 ______ Correction 2 ______
Rev. 3 ______ Correction 3 ______

WINTEROWD ASSOCIATES
LANDSCAPE ARCHITECTURE

STATE OF TEXAS
L. DIANE WINTEROWD
1197
REGISTERED LANDSCAPE ARCHITECT
4/13/95

ARCHITECTURE + PLUS
1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-3424
FAX (512) 328-9384

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

IRRIGATION PLAN

ISSUE DATE: MAY 1, 1995
DRAWN BY: DATE:
CHECKED BY: DATE:

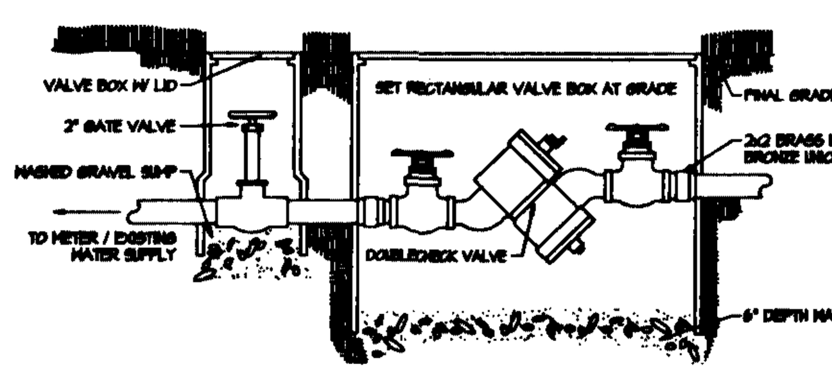
REVISIONS

NO.	DATE	REMARKS
1	9/13/95	Pump Changes

SHEET
11 OF 12

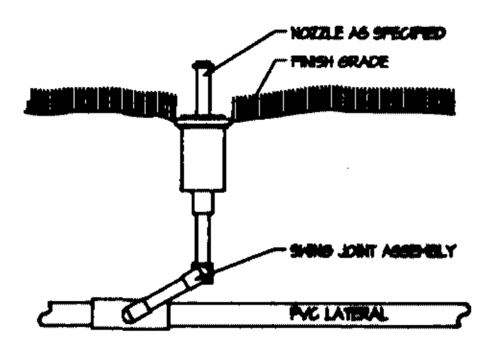
PROJECT NUMBER: 942402

SPC-94-0459C



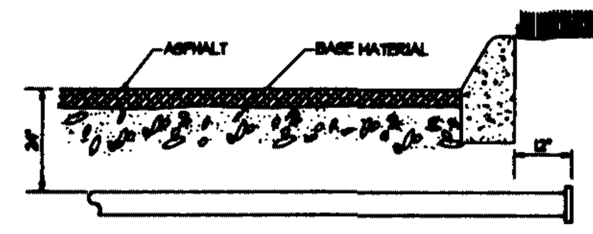
DOUBLECHECK BACKFLOW PREVENTER

NO SCALE



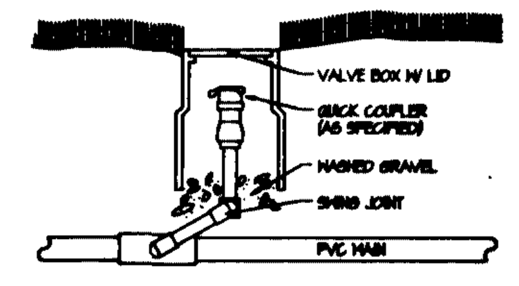
POP-UP SPRAY

NO SCALE



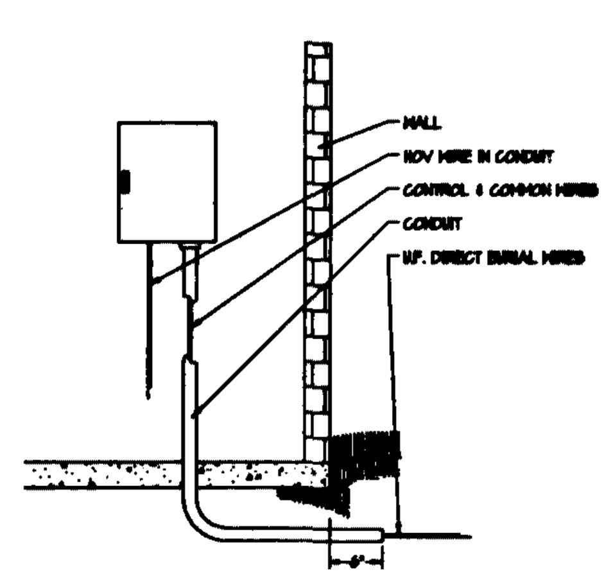
PVC SLEEVE INSTALLATION

NO SCALE



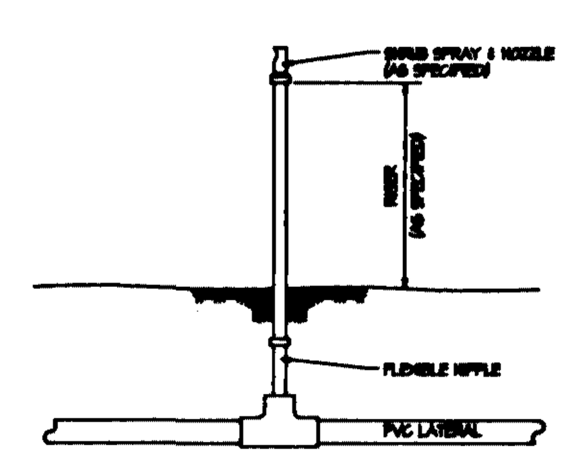
QUICK COUPLER

NO SCALE



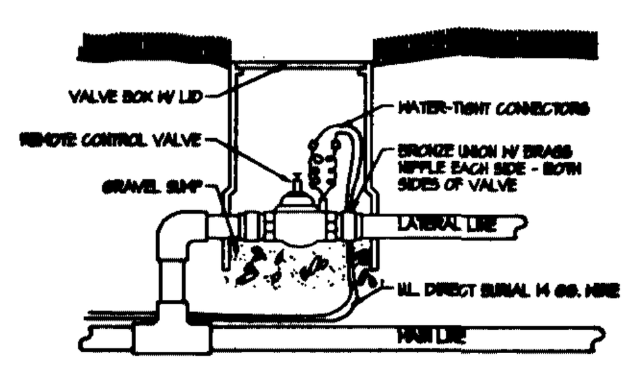
WALL-MOUNTED CONTROLLER

NO SCALE



RISER INSTALLATION

NO SCALE



REMOTE CONTROL VALVE

NO SCALE

LANDSCAPE NOTES

1. INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, AREAS AND DISTANCES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO BIDDING. DISCREPANCIES SHALL BE REPOROTED TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.

2. THE CONTRACTOR IS TO THOROUGHLY FAMILIARIZE HIM/HERSELF WITH THE PLANS AND SPECIFICATIONS AND WITH THE SITE PRIOR TO BIDDING. FAILURE TO DO SO WILL NOT REDUCE THE CONTRACTORS OBLIGATION TO PERFORM THE WORK AS DESCRIBED FOR THE PRICE BID.

3. NO SUBSTITUTIONS OF PLANT MATERIAL LOCATIONS, SPECIES OR SIZE WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT. PLANT MATERIALS WHICH MAY BE NOTED AS 'REPLACEMENT' ARE DONE SO AS A REQUIREMENT OF THE CITY OF AUSTIN, AND MAY NOT BE MODIFIED FROM THE SPECIFICATIONS.

4. THE LANDSCAPE INSTALLER SHALL COORDINATE WITH THE IRRIGATION INSTALLER FOR TREE LOCATIONS AND FINAL ADJUSTMENTS OF SPRAY LOCATIONS AND COVERAGE.

5. AREAS TO BE SEEDED OR SODDED ARE TO RECEIVE 3" OF TOPSOIL. SITE STOCKPILED TOPSOIL MAY BE USED IF IT HAS BEEN DEEMED ACCEPTABLE IN QUALITY. TOPSOIL SHALL BE DARK BROWN OR BLACK IN COLOR, WITHOUT STONES, DEBRIS OR OTHER OBJECTIONABLE MATERIAL, WITHOUT CLODS, CLUMPS OR STONES LARGER THAN 1". TOPSOIL SOURCES MUST BE FREE FROM JOHNSON GRASS, NUTSEDGE OR OTHER 'WEEDY' MATERIALS.

6. SOIL PREPARATION:
   - A. REFER TO THE LANDSCAPE SPECIFICATIONS FOR MORE INFORMATION.
   - B. ALL TREE AND SHRUB PITS SHALL BE DUG TWO TIMES THE DIAMETER OF THE ROOTBALL OR CONTAINER. PITS SHALL BE GENERALLY CIRCULAR, WITH SIDES SCARIFIED AND ROUGHENED. BOTTOMS OF PITS SHALL BE FIRM BUT NOT OVERLY COMPACTED.
   - C. BACKFILL FOR TREES AND SHRUBS SHALL BE AS SPECIFIED. SOIL FROM PIT EXCAVATIONS MAY BE USED IF INDICATED, AND IF IT IS FREE FROM DEBRIS, CLAY, STONES, OR OTHER DELETERIOUS MATERIALS.
   - D. GROUNDCOVER BEDS SHALL BE EXCAVATED A TOTAL OF 8" AND BACKFILLED WITH THE SPECIFIED SOIL MIXTURE, WHICH SHALL BE TILLED IN AND MIXED WITH EXISTING SOIL.

7. MULCH ALL PLANTINGS AS FOLLOWS:
   - A. TREES SHALL RECEIVE A MINIMUM OF 4" MULCH TOPDRESSING CONTAINED WITHIN A 5" DEEP SOIL SAUCER.
   - B. SHRUBS SHALL RECEIVE A MINIMUM OF 3" MULCH TOPDRESSING. MULCH SHALL BE CONTINUOUS WITHIN SHRUB BEDS, OR CONTAINED BY A 4" SOIL SAUCER FOR INDIVIDUALLY LOCATED SHRUBS.
   - C. GROUNDCOVER AND SEASONAL COLOR SHALL RECEIVE 3" OF MULCH TOPDRESSING, CONTINUOUSLY APPLIED WITHIN EACH BED AREA. IF NECESSARY, PULL MULCH AWAY FROM THE BASE AND LOWER LEAVES OF PLANTS TO AVOID SMOTHERING AND TO REDUCE ROOT GROWTH WITHIN THE MULCH LAYER.
   - D. EDGE ALL CONTINUOUSLY MULCHED SHRUB AND/OR GROUNDCOVER BEDS WITH STEEL EDING.

8. STEEL EDGING SHALL BE 1/4" x 5" STEEL WITH 12" STAKES, AS MANUFACTURED BY RYERSON STEEL, OR EQUAL.

9. STEEL SHALL BE INSTALLED WITH FINAL TOP ELEVATIONS 1" ABOVE ADJACENT FINAL SOIL ELEVATIONS, OR EVEN WITH ADJACENT WALKS, CURBS OR OTHER PAVEMENT. DO NOT PLACE STEEL BETWEEN BED AREAS AND CURBS OR WALKS..

10. CITY OF AUSTIN PLAN REQUIRMENTS:
    - A. ALL AREAS OF EXISTING VEGETATION BEYOND THE LIMITS OF CONSTRUCTION ARE TO BE LEFT UNDISTURBED.
    - B. ALL LANDSCAPED AREAS SHALL BE PROTECTED BY A 6" CURB OR WHEEL STOPS.
    - C. PROPOSED LANDSCAPING WITHIN THE LIMITS OF CONSTRUCTION IS TO BE IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM. REFER TO THE IRRIGATION PLAN FOR LOCATIONS OF IRRIGATION EQUIPMENT. (1)
    - D. ALL MECHANICAL EQUIPMENT, STORAGE AREAS, DETENTION AND FILTRATION PONDS AND DEVICES, AND REFUSE COLLECTION AREAS SHALL BE SCREENED FROM OFFSITE VIEWS WITH PLANT MATERIALS OR BY PRIVACY-TYPE FENCES.

LANDSCAPE MAINTENANCE NOTES:

THE OWNER SHALL BE RESPONSIBLE FOR:

1. THE REGULAR MAINENANCE OF ALL REQUIRED LANDSCAPE AREAS AND PLANT MATERIALS TO MAINTAIN A VIGOROUS AND HEALTHY CONDITION, FREE FROM DISEASES, PESTS, WEEDS, AND LITTER. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZATION, PRUNING, MOWING, EDGING, MULCHING OR OTHER NEEDED MAINTENANCE IN ACCORDANCE WITH GENERALLY ACCEPTED HORTICULTURAL PRACTICES.

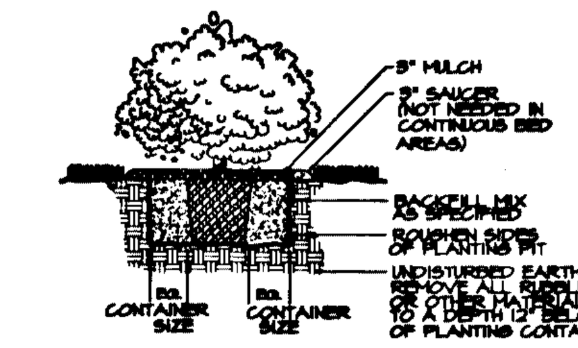
2. THE REPAIR OR REPLACEMENT OF REQUIRED LANDSCAPE STRUCTURES (WALLS, FENCES, ETC.) TO A STRUCTURALLY SOUND CONDITION.

3. THE REGULAR MAINTENANCE, REPAIR, OR REPLACEMENT, WHERE NECESSARY OF ANY SCREENING OR BUFFERING REQUIRED BY THE LAND DEVELOPMENT CODE.

REQUIRED PLANT MATERIALS, IF DEAD, DISEASED OR SEVERELY DAMAGED, SHALL BE REMOVED BY THE OWNER AS SOON AS POSSIBLE, BUT NO LATER THAN 60 DAYS AFTER NOTIFICATION. ALL SUCH PLANTS SHALL BE REPLACED WITHIN SIX MONTHS OF NOTIFICATION OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES FIRST.

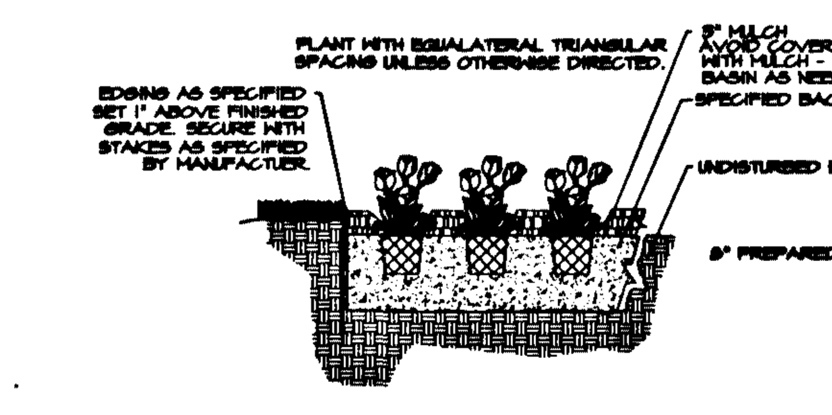
REPLACEMENT PLANTS SHALL BE THE SAME SIZE AND SPECIES AS SHOWN ON THE APPROVED LANDSCAPE PLAN OR MUST BE EQUIVALENT IN TERMS OF QUALITY AND SIZE.

WINTEROWD ASSOCIATES
LANDSCAPE ARCHITECTURE



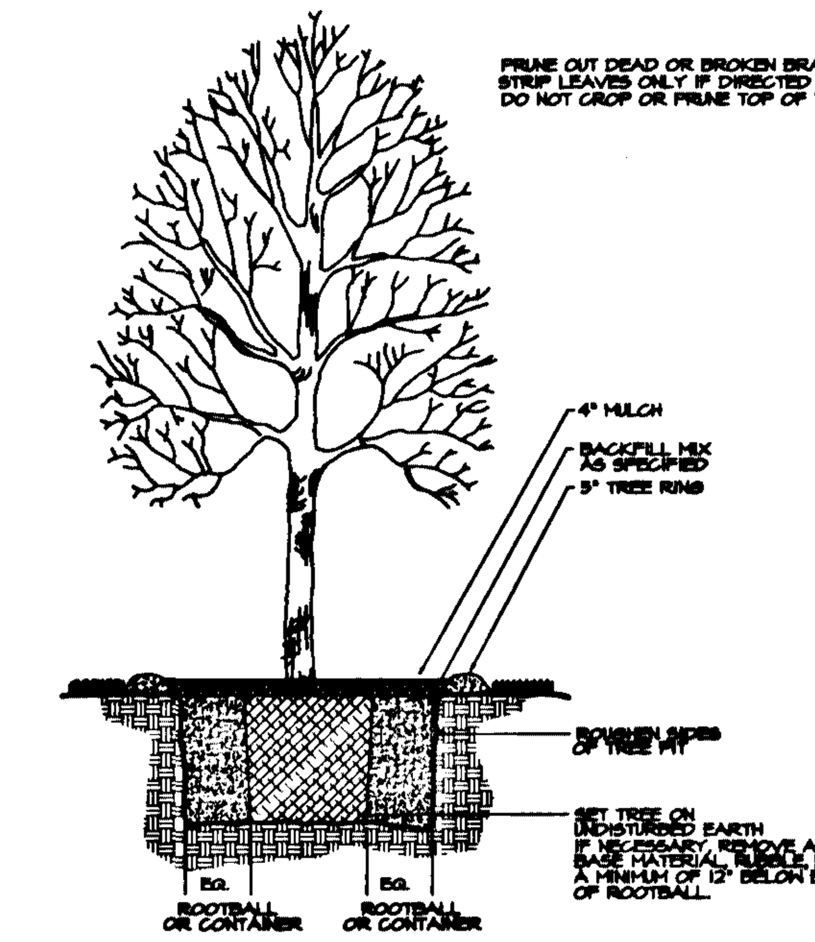
SHRUB PLANTING DETAIL

NOT TO SCALE



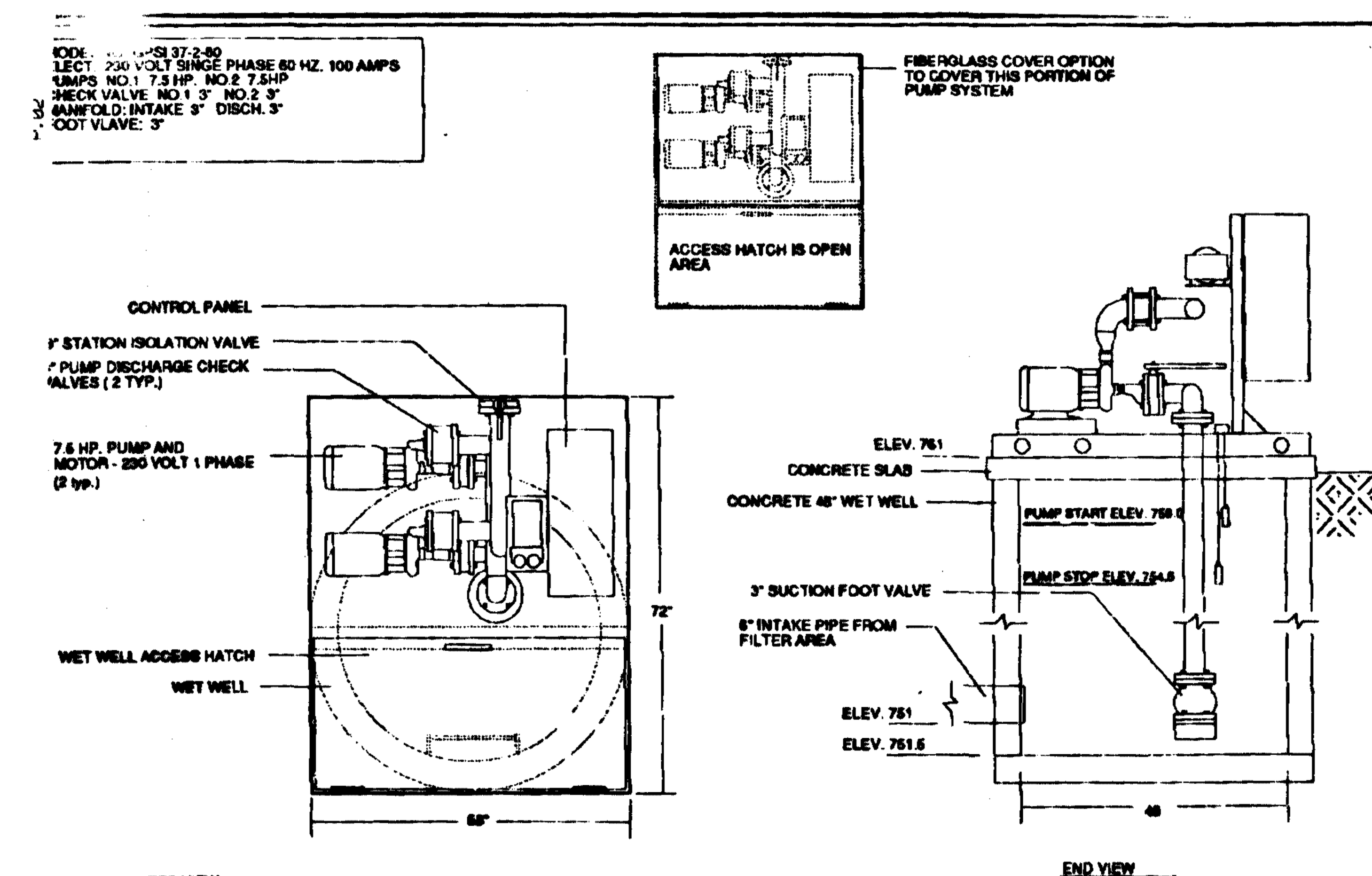
GROUNDCOVER / SEASONAL COLOR PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE



TOP VIEW
scale: 1/2" = 1'

END VIEW
scale: 1/2" = 1'

DO NOT USE FOR CONSTRUCTION: FINAL ENGINEERING DIMENSIONS MAY VARY SLIGHTLY

OAK HILL LIBRARY Austin, Texas	PROPOSED LIFT CENTRIFUGAL PUMPING SYSTEM FOR RE-IRRIGATION	REV. DATE: 8/2/95	SCALE: 1/2" = 1' DRAWING NO. 95343 DRAWN BY: GDR

IRRIGATION NOTES

1. ALL MAINLINE, LATERAL LINES AND CONTROL WIRING SHALL BE INSTALLED IN SLEEVES UNDER DRIVING OR SIDEWALK PAVING. USE SEPARATEA SLEEVES FOR PIPES AND WIRES. SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPES THEY ARE TO CONVEY.
2. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWING, BUT MAY BE INSTALLED LARGER THAN SPECIFIED AT THE CONTRACTOR'S OPTION AND UPON APPROVAL OF THE IRRIGATION DESIGNER. NO USED OR DAMAGED PIPE MAY BE USED.
3. ALL BACKFLOW PREVENTION DEVICES AND SYSTEM INSTALLATION SHALL BE AS PER LOCAL CODES. THE CONTRACTO WILL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND BE PRESENT FOR ALL REQUIRED INSPECTIONS.
4. FINAL LOCATIONS OF THE CONTROLLER AND BACKFLOW PREVENTER SHALL BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
5. PIPING AND HEAD LAYOUTS ARE SHOWN SCHEMATICALLY, AND MAY HAVE BEEN GRAPHICALLY ADJUSTED FOR CLARITY. INSTALL ALL HEADS 6" - 12" FROM PAVEMENT. INSTALL PIPING IN COMMON TRENCHES WHEREVER POSSIBLE, AND IMMEDIATELY BEHIND CURBS OR PAVEMENT. DO NOT CUT TRENCHES ACROSS THE ROOT ZONES OF EXISTING TREES - HAND TRENCH AROUND ROOT ZONES.
6. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULLARY TO FINISH GRADES. HEADS WITHIN 4' OF PAVEMENT OR CURBS SHALL BE INSTALLED ON SWING JOINTS OR FLEX-PIPE. WHERE PLANTINGS INTERFERE WITH SPRAY OPERATION, INSTALL HEADS ON 12" POP-UP BODIES OR ON FIXED RISERS IF ADJACENT TO A PERMANENT VERTICAL ELEMENT, SUCH AS A BUILDING WALL.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIM/HERSELF WITH THE SITE AND THE PROPOSED AND EXISTING CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR FROM INSTALLING THE SYSTEM AS DESIGNED FOR THE PRICE BID.
8. ITEMS, CONSTRUCTION, METHODS AND EQUIPMENT NOT SPECIFICALLY CALLED OUT BUT NECESSARY FOR INSTALLATION OF A FULLY AND PROPERLY FUNCTIONING SYSTEM SHALL BE INTEGRAL TO THE BID PRICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY OMMISIONS PRIOR TO SUBMITTING A FIRM PRICE, AND TO INCLUDE ALL ITEMS IN THE FINAL BID.
9. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS THAT UNKNOWN OBSTACLES, GRADE OR AREA DIFFERENCES EXIST WHICH MAY NOT HAVE BEEN CONSIDERED OR KNOWN TO THE DESIGNER. SUCH DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR OWNER'S REPRESENTATIVE FOR RESOLUTION. IF NOT, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY CHANGES MADE WHICH WERE NOT APPROVED.
10. INSTALL CHECK VALVES WHERE SLOPES EXCEED 4:1, WHERE POST-VALVE DRAINING OF THE IRRIGATION HEAD OCCURS, OR WHERE DIRECTED BY THE OWNER.
11. THIS SYSTEM SHALL REQUIRE A MINIMUM OF 66 GPM AND 65 PSI. CONTRACTOR IS TO VERIFY THAT ADEQUATE SUPPLY IS AVAILABLE PRIOR TO INSTALLATION, AND TO REPORT INADEQUACIES TO THE OWNER. WHERE PSI EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE SHALL BE INSTALLED.
12. ALL VALVES AND WIRE SPLICES SHALL BE INSTALLED WITHIN 10" MIN. VALVE BOXES WITH GRAVEL SUMPS.
13. THE CONTRACTOR SHALL BE A TEXAS REGISTERED LICENSED IRRIGATOR IN GOOD STANDING, WITH AT LEAST 3 YEARS INSTALLATION EXPERIENCE.
14. ALL CONTROL WIRES TO BE 14 AWG SOLID COPPER INSULATED DIRECT BURIAL WIRE, UF UL LISTED.
15. COORDINATION WITH THE LANDSCAPE INSTALLATION AND INSTALLATION OF SLEEVES WITH THE GENERAL CONTRACTOR OR OTHER SUBS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
16. ALL EQUIPMENT SHALL BE NEW AND UNDAMAGED.
17. INSTALL MAIN LINES A MINIMUM OF 15" UNDER FINISH GRADE, AND LATERAL LINES 12" BELOW FINISH GRADE. WHERE SOLID ROCK IS ENCOUNTERED IN THE TRENCHES, INSTALL PIPING ON A 2" MIN. SAND BED. ALL LATERAL LINE PIPING MAY BE CLASS 200. ALL MAIN LINES AND SLEEVES SHALL BE SCHEDULE 40.
18. THE IRRIGATION SYSTEM SHALL CONFORM TO ALL CITY OF AUSTIN CODES AND REQUIREMENTS AS PRESENTED BY THE DEPARTMENT OF ENVIRONMENTAL AND CONSERVATION SERVICES. OVERSPRAY OF HEADS ONTO PAVEMENT SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE. ISLANDS NARROWER THAN 8' WIDTH SHALL BE INSTALLED WITH DRIP OR OTHER NON-SPRAY IRRIGATION TYPES.

SITE PLAN RELEASE Sheet 12 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: ____
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: ____
under Section 160 of Chapter 13-1 of the Austin City Code.
[signature]
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ____ Correction 1 ____
Rev. 2 ____ Correction 2 ____
Rev. 3 ____ Correction 3 ____

ARCHITECTURE + PLUS
1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-3424
FAX (512) 328-9384

STATE OF TEXAS — L. DIANE WINTEROWD — 1197 — REGISTERED LANDSCAPE ARCHITECT — 7/19/95

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

LANDSCAPE & IRRIGATION DETAILS

ISSUE DATE: APRIL 24, 1995

DRAWN BY: DATE:

CHECKED BY: DATE:

REVISIONS

NO.	DATE	REMARKS
1	7-17-95	NOTE REVISIONS

SHEET L3 OF 3

12 of 12

PROJECT NUMBER: 942402

SPC-94-0459C

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

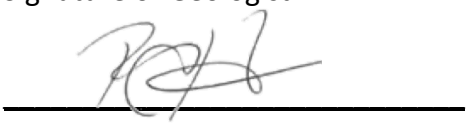
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Rene Hefner Telephone: 210-262-7001

Date: 05/27/2024 Fax: 210-372-0398

Representing: EGC, INC. #50315 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: Hampton Branch Library at Oak Hills

Project Information

1. Date(s) Geologic Assessment was performed: 9/13/2023, 10/04/2023, and 05/05/2024
2. Type of Project:

   ☒ WPAP ☐ AST
   ☐ SCS ☐ UST
3. Location of Project:

   ☒ Recharge Zone
   ☐ Transition Zone
   ☐ Contributing Zone within the Transition Zone

4. ☒ **Attachment A - Geologic Assessment Table**. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)

Soil Name	Group*	Thickness(feet)
Speak Series, Speak Clay Loam	D	1.5
Crawford Series, Crawford Clay	D	1.8

** Soil Group Definitions (Abbreviated)*

A. Soils having a high infiltration rate when thoroughly wetted.

B. Soils having a moderate infiltration rate when thoroughly wetted.

C. Soils having a slow infiltration rate when thoroughly wetted.

D. Soils having a very slow infiltration rate when thoroughly wetted.

6. ☒ **Attachment B – Stratigraphic Column**. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.

7. ☒ **Attachment C – Site Geology**. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.

8. ☒ **Attachment D – Site Geologic Map(s)**. The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

   Applicant's Site Plan Scale: 1" = 250'
   Site Geologic Map Scale: 1" = 250'
   Site Soils Map Scale (if more than 1 soil type): 1" = 75'

9. Method of collecting positional data:

   ☒ Global Positioning System (GPS) technology.
   ☐ Other method(s). Please describe method of data collection: _____

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map. (No surface geology on site property)

12. ☐ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

    ☒ Geologic or manmade features were not discovered on the project site during the field investigation.

13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.

14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

    ☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
    - ☐ The wells are not in use and have been properly abandoned.
    - ☐ The wells are not in use and will be properly abandoned.
    - ☐ The wells are in use and comply with 16 TAC Chapter 76.

    ☒ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

Attachment A: Geologic Assessment Table

City of Austin Environmental Resource Inventory - Critical Environmental Feature Worksheet

1	Project Name:	Austin Public Library Hampton Branch at Oak Hills parking Lot Expansion and Water Quality Pond Repair
2	Project Address:	5125 Convict Hill Rd, Austin, TX 78749
3	Site Visit Date:	9/13/2023, 10/04/2023, 5/5/2024
4	Environmental Resource Inventory Date:	5/5/2024

5	Primary Contact Name:	Rene Hefner, P.G.
6	Phone Number:	210-262-7001
7	Prepared By:	Rene Hefner, P.G.
8	Email Address:	rene.hefner@egcincpro.com

9	FEATURE TYPE {Wetland,Rimrock, Bluffs,Recharge Feature,Spring}	FEATURE ID (eg S-1)	FEATURE LONGITUDE (WGS 1984 in Meters)		FEATURE LATITUDE (WGS 1984 in Meters)		WETLAND DIMENSIONS (ft)		RIMROCK/BLUFF DIMENSIONS (ft)		RECHARGE FEATURE DIMENSIONS				Springs Est. Discharge
			coordinate	*notation*	*coordinate*	*notation*	X	Y	Length	Avg Height	X	Y	Z	Trend	cfs
	(None Identified)														

City of Austin Use Only CASE NUMBER:	

For rimrock, locate the midpoint of the segment that describes the feature.

For wetlands, locate the approximate centroid of the feature and the estimated area.

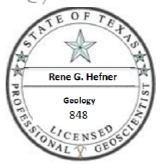
For a spring or seep, locate the source of groundwater that feeds a pool or stream.

Please state the method of coordinate data collection and the approximate precision and accuracy of the points and the unit of measurement.

Method		Accuracy	
GPS	☒	sub-meter	☐
Surveyed	☐	meter	☐
Other	☐	> 1 meter	☐

Professional Geologists apply seal below

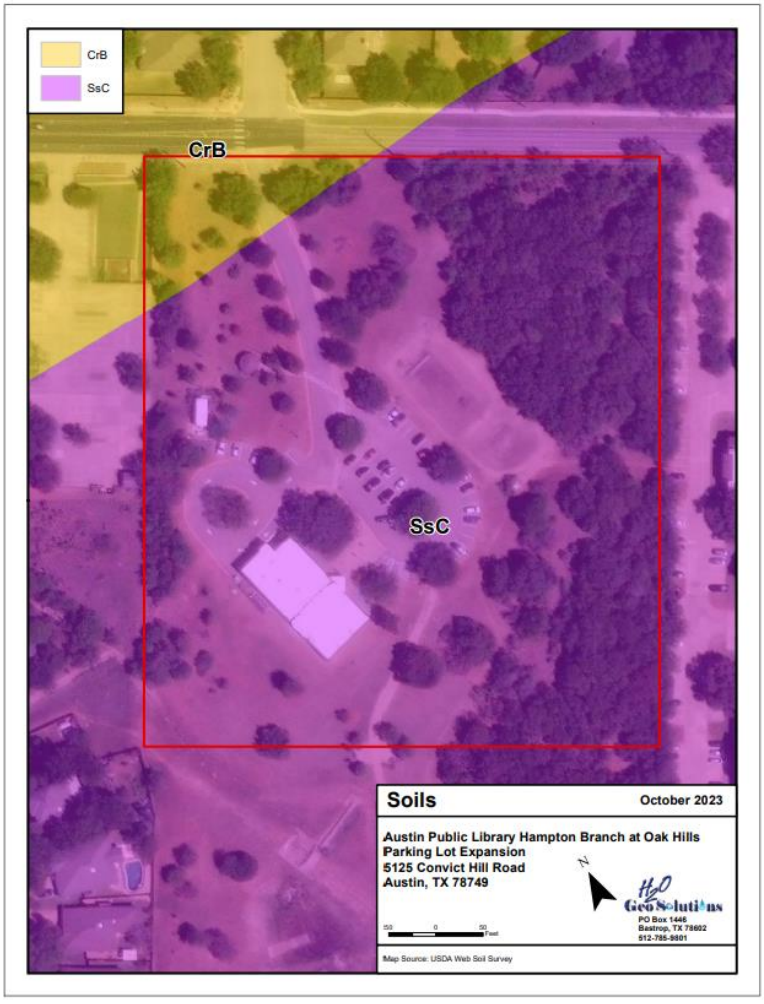
5/20/2024



Attachment A1: Soils

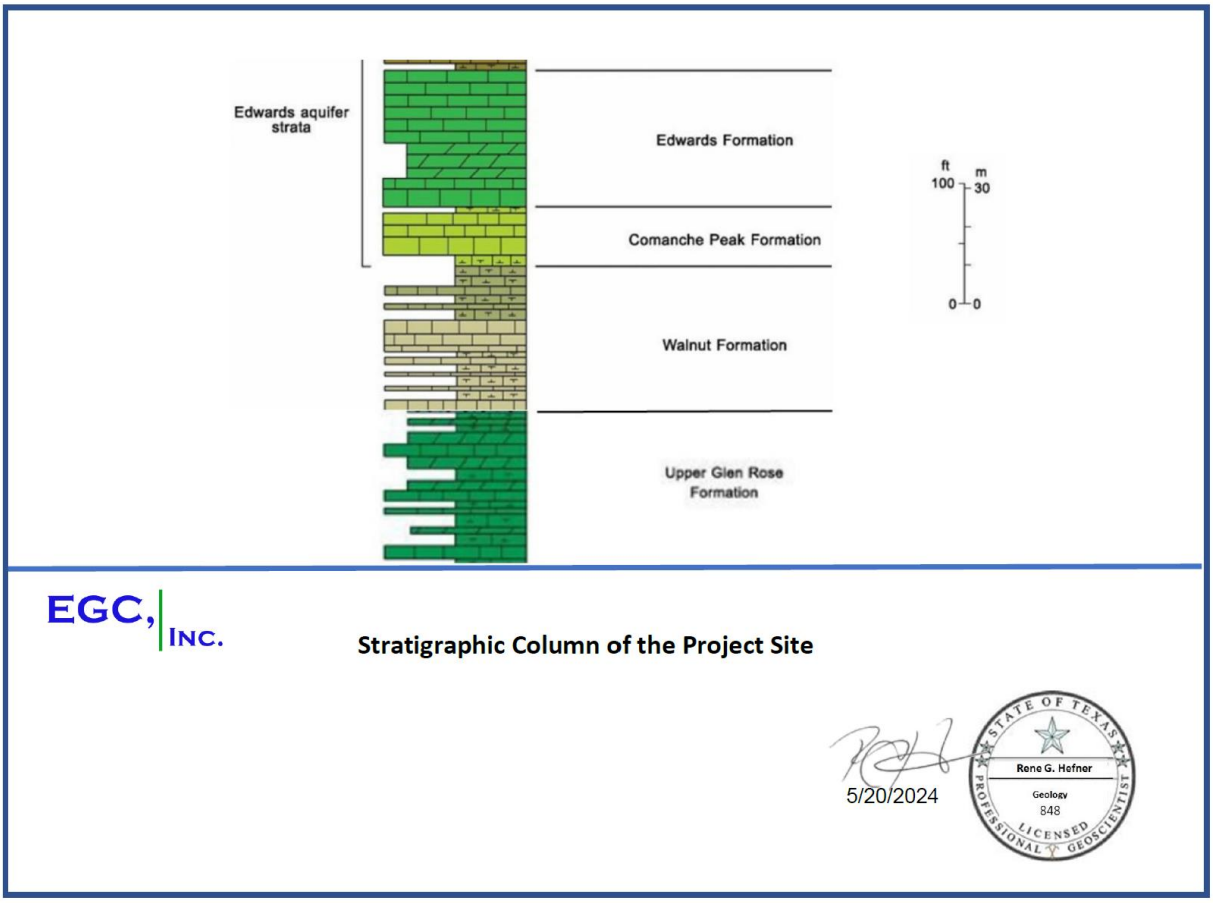
A review of soils data from the U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) indicates that two soil map unit series are present within the project site: The Speak Series and Crawford Series. The Speak Series, Speak Clay Loam form ridges and at the project site is approximately 1.5 inches thick. Its slope range from 1 to 5 percent although at the project site it tends to be flat. This unit is a well-drained soil and it contains minor amounts of Crawford. Crawford Clay map unit is composed of minor components of Denton, Fairlie, Georgetown, and Purves soils. It is very typical of flat, plains areas like the project site. At the project site it is approximately 1.8 inches thick and it is a well-drained soil. (Figure 4: Soils of the Project Site)

- Speak Clay Loam: .
    - Soil Properties:
        - Well drained
        - Slopes range from 1 to 5 percent
        - Severe limitations for pond reservoir areas due to depth to rock, seepage
        - Hydric Soil Rating: No
- Crawford:
    - Soil Properties:
        - Well drained
        - Slopes range from 1 to 3 percent
        - Moderate limitations for pond reservoir areas due to depth to rock and hard to compact
        - Hydric Soil Rating: No



5/20/2024

Attachment B: Stratigraphic Column



Attachment C: Site Geology

The project site has the Edwards formation (Ked) exposed on the surface and in the surface drainages. Underlying the Edwards formation are the Comanche Peak (Kc), Walnut (Kwa), and Upper Glen Rose (Kgru) formations. All of these formations are from the Cretaceous Period, Comanchean Epoch or Series, and Fredericksburg Group (Ked, Kc, Kwa)/Trinity Group (Kgru) (txpub.usgs.gov/txgeology/) (Figure 3: Geologic Map of Project Site and Figure 6: Geologic Stratigraphic Column of Project Site).

The Edwards formation is composed of limestone, dolomite, and chert. The limestone is massive to thin bedded, hard, and brittle. The dolomite is fine to very fine grained, porous, with chert nodules intersperse throughout. The thickness of the Edwards formation can range from 60 to 350 feet (txpub.usgs.gov/txgeology/).

The Comanche Peak formation is composed of fine to very fine grained, fairly hard, nodular limestone. It has extensively burrow fillings which are usually darker and coarser than the surround limestone matrix. It tends to scarp face beneath the Edwards formation and is about 80 feet think underneath the project site (txpub.usgs.gov/txgeology/).

The Walnut formation consists of clays, marly limestone with a basal sand unit. It is highly fossiliferous with various clam species, turritella, and various echinoid species. It is exposed at the surface in southeastern Bell County, just north Williamson County (txpub.usgs.gov/txgeology/).

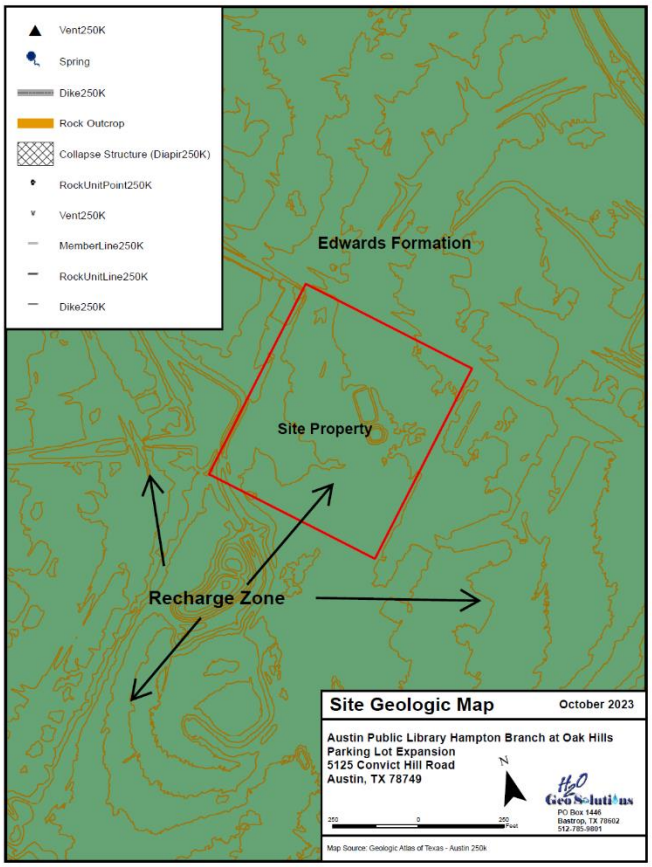
The Upper Glen Rose formation is composed of limestone, dolomite, and marl subdivided into two units by Corbula bed C and alternating resistant and recessive beds forming stairstep topography. Marine megafossils that include mulluscan, steinkerns, rudistids, oysters, and echinoids are abundant throughout the formation. The thickness of the Upper Glen Rose formation can be 380 feet more or less (txpub.usgs.gov/txgeology/).

The project site occurs within the Balcones Fault Zone (BFZ) within the Edwards Aquifer Recharge Zone. During the middle Tertiary, structural down-warping occurred to the southeast associated with the formation of the ancestral Gulf of Mexico. The earth's crust was stretched in response, and the BFZ formed along a zone of weakness, which today marks the boundary between the Edwards Formation and the Gulf Coastal Plain throughout central Texas. This zone consists of a series of northeast trending, predominantly normal, nearly vertical, en echelon faults. There are two faults that occur a few miles away from the site. One fault is .47 miles northwest of the project site and the other fault is .93 miles southeast of the project site. Neither fault has a local influence on the project site. In addition, there were no faults located within the project site, which was confirmed during the site visit .

The project site is within the Edwards Aquifer Recharge Zone. Recharge into the Edwards Aquifer primarily occurs in areas where the Edwards Formation is exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features are commonly formed along joints, fractures, and bedding plane surfaces in the Edwards Formation. However, during the project site visit no joints, caves, solution cavities, sinkholes, etc. were encountered.

Overall, there were no geological features were noted during the site visit. There are no major outcrops or exposure on the site.

Attachment D: Site Geologic Map



5/20/2024

STATE OF TEXAS
Rene G. Hefner
Geology
848
LICENSED
PROFESSIONAL GEOSCIENTIST

Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality
30 TAC §213.9 Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.
Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Owen Orozco
Date: 07/19/2024
Signature of Customer/Agent:

Regulated Entity Name: Hampton Branch Library at Oak Hill

Exception Request

1. ☒ **Attachment A - Nature of Exception**. A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection**. Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

3. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

ATTACHMENT A – Nature of Exception

We are requesting an exception from submitting a water pollution abatement plan for the proposed improvements (parking lot expansion) on site because:

1. The project site has been developed before, and we are proposing to add a small amount of impervious cover (~4,883 sf). The total IC percentage of the 12-acre site will increase from 11.73% to 12.67%.
2. The existing BMPs onsite, approved and constructed per originally approved WPAP, has already factored in this additional impervious cover. See Attachment B for additional information.

ATTACHMENT B –

Documentation of Equivalent Water Quality Protection

The Hampton Branch Library at Oak Hill (used to be known as Oak Hill Branch Library) is located on a 12-acre site. This site has previously been developed under WPAP permit number 11-95020104 (pleas). The original approved plan proposed a total of about ~13% impervious cover over the 12-acre site. The approved and constructed BMPs include a sedimentation/filtration pond, vegetated filter strip and spray irrigation. Please see attached existing approved WPAP and plan set.

However, the originally proposed Phase 2 parking lot and building area was not constructed in the original construction. With the current proposed development, we are proposing parking lot expansion that will increase the parking/paved surfaces impervious cover by about 4,883 sf, bringing the total site impervious cover from 11.73% to 12.67%.

Since the addition of the impervious cover is minimal, and the **sedimentation/filtration pond approved and constructed in the original site plan already factored in this impervious cover**, no additional new water quality treatment BMPs are proposed with the proposed parking lot expansion, and we are requesting an exception for the proposed parking lot expansion.

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

April 17, 1995

Ms. Cynthia D. Jordan
City of Austin Public Works
P.O. Box 1088
Austin, Texas 78701

Re: Edwards Aquifer, Travis County.
NAME OF PROJECT: Oak Hill Branch Library; 5125 Convict Hill Road; Austin, Texas.
TYPE OF PLAN: Request for Approval of Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) §313.4; Edwards Aquifer Protection Program.

Dear Ms. Jordan:

The Texas Natural Resource Conservation Commission (TNRCC) has completed its review of the WPAP application for the referenced project that was submitted by Tricia Altamirano Consulting Engineer on behalf of the City of Austin to the Austin Region Office on February 1, 1995.

PROJECT DESCRIPTION

The proposed commercial project will consist of the branch library facility with associated driveway, parking, sidewalk, water quality and utility improvements, approximately 13% impervious cover. Potable water will be supplied by the City of Austin.

The normal population of the development is estimated to be 225 persons. 12,750 gallons per day of wastewater is to be generated by this project, 100% domestic. Project wastewater will be disposed of by conveyance to the existing South Austin Sewage Treatment Plant.

Project stormwater will be treated using a sedimentation/filtration basin, vegetated filter strip and spray irrigation. The sedimentation/filtration basin is designed to capture the first 2.27 inches of stormwater. Treated stormwater will be used for spray irrigation as second stage treatment. A portion of stormwater runoff will flow to a vegetated filter strip for treatment.

GEOLOGY

According to the geologic assessment included with the submittal, along with the Austin Region site inspection on April 11, 1995, no potential recharge features were located within the limits of construction. A recharge feature was located off-site within 200 feet downstream of the site. The feature is a sink and has water diverted away from it by permanent earth and rock berms. Four other potential recharge features were identified in the downstream flowpath.

APPROVAL

The plan for this project has been reviewed for compliance with 30 TAC §313.4 which sets forth pollution abatement criteria for any development on the recharge zone of the Edwards Aquifer. The proposed water pollution abatement plan is in general agreement with 30 TAC §313.4; therefore, approval of the plan is hereby granted subject to the specific conditions listed below.

Failure to comply with any of the following conditions, the deed recordation requirement, or any other specific conditions of approval is a violation of these rules. Pursuant to §26.136 of the Texas Water Code, any violations of the Edwards Aquifer Rules may result in administrative **penalties of up to $10,000 for each act of violation and for each day of violation.**

SPECIAL CONDITIONS

Formal maintenance plans and anticipated cleaning schedules for the water quality pond must be submitted to the Austin Region Office for review and approval by the Executive Director within thirty (30) days of their completion. The plan shall be implemented in accordance with the approved schedule. The party responsible for overseeing the formal maintenance plan shall be indicated. Any changes which are necessary to meet the specific design of this water quality system shall be included. Some type of all weather access to the water quality system shall be provided such that maintenance may be performed during wet weather. A sample maintenance plan and schedule is enclosed.

STANDARD CONDITIONS OF APPROVAL

1. Please be reminded that 30 TAC §313.4(c) requires the owner/ developer to, within 30 days of receiving this written notice of approval and prior to commencing construction, record in the county deed records that this property is subject to the approved WPAP and submit to the appropriate region office proof of the deed recordation. Enclosed is a suggested format you may use to deed record the approved WPAP.

2. Prior to commencing construction, the applicant/agent shall submit to the Austin Region Office copies of any changes made to the plans and specifications for this project which have been required by the TNRCC review and/or all other permitting authorities.

3. **Please note, following this approval of the regulated activities described in the referenced WPAP submittal, any amendment to these activities required by some other regulating authority or desired by the applicant will require the submittal of a WPAP application to amend this approval. And, as indicated in 30 TAC §313.4 and 30 TAC §313.27, an application to amend any approved regulated activity shall include payment of appropriate fees and all information necessary for its review and Executive Director approval.**

4. Additionally, all contractors conducting regulated activities associated with this proposed regulated project shall be provided with copies of this approval letter and the entire contents of the submitted WPAP so as to convey to the contractors the specific conditions of this approval. During the course of these regulated activities, the contractors shall be required to keep on-site copies of the WPAP and this approval letter.

5. The temporary erosion and sedimentation (E&S) controls for the entire project shall be installed and the water quality pond shall be excavated prior to beginning any other construction work on this project. The water quality pond shall be used as a sedimentation basin until the contractor is ready to proceed with their final construction.

6. The appropriate E&S control(s) that shall be used during the construction of the project are as follows: (1) **Stabilized construction entrances** shall be installed at all sites of ingress and egress prior to initiation of any other regulated activity. (2) **Silt fences** should be used when the drainage areas are less than 2 acres or when the slopes are less than 10%.

(3) **Rock berms with filtration** should be used when the drainage areas are greater than two acres or when the slopes are in excess of 10%. The bottom edge of the filter fabric must be buried a minimum of 6 inches below grade.

7. The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection may be necessary if excessive solids are being discharged from the site.

8. Also, 30 TAC §313.4(d)(2) requires that if any significant recharge features, such as solution openings or sinkholes, are discovered during construction, all regulated activities near the significant recharge feature must be suspended immediately and may not be resumed until the Executive Director has reviewed and approved the methods proposed to protect the aquifer from any potential adverse impacts. Upon discovery of the significant recharge features, the developer shall immediately notify the Austin Region Office.

9. Upon completion of the project, the applicant shall reseed or sod all areas disturbed during construction.

10. If any abandoned wells exist on the site or are found during construction of the proposed development, they shall be plugged in accordance with the local underground water conservation district's plugging procedures, if applicable, or 30 TAC §287.50(a) of this title (relating to Standards for Plugging Wells that Penetrate Undesirable Water Zones), or an equivalent method, as approved by the Executive Director. Pursuant to 30 TAC §287.48(e), the person that plugs such a well shall, within 30 days after plugging is complete, submit a Water Well Completion and Plugging Report to the Executive Director, through the Austin Region Office and to the Barton Springs/Edwards Aquifer Conservation District.

    Any drill holes resulting from core sampling on-site or down-gradient of the site shall be plugged with cement slurry, from the bottom of the hole to the top of the hole, so as to not allow water or contaminants to enter the subsurface environment.

11. No waste-disposal wells, new confined animal feeding operations, land disposal of Class I wastes, or use of sewage holding tanks as parts of organized collection systems shall be allowed on the recharge zone of this regulated development.

12. During the course of the construction related to the referenced regulated project, the owner/developer shall comply with all applicable provisions of 30 TAC §313.4. Construction which is initiated and abandoned, or not completed, shall be returned to a permanent condition such that groundwater in the Edwards Aquifer is protected from potential contamination. Additionally, the City of Austin, applicant, shall remain responsible for the provisions and special conditions of this approval until such responsibility is legally transferred to another person or entity, upon which that person or entity shall assume responsibility for all provisions and specific conditions of this approval.

13. **Pursuant to 30 TAC §313.4(d)(1) and prior to commencing regulated activities, the applicant must provide the Austin Region Office with the date on which the regulated activity will commence.**

14. Please note that 30 TAC §313.4(g) states that this approval expires two years from this date unless, prior to the expiration date, construction has commenced on the regulated project.

If you have any questions or require additional information, please contact a representative of the Edwards Aquifer Protection Program at the Austin Region Office (512) 463-7803.

Sincerely,

for
Dan Pearson, Executive Director
Texas Natural Resource Conservation Commission

CDR:cdr

Enclosures

cc: Tricia Altamirano, P.E.
Bill Couch, Barton Springs/Edwards Aquifer Conservation Dist.
Austan Librach, Environmental & Conservation Services Dept., City of Austin
The Honorable Bill Aleshire, County Judge, Travis County
Christine Ellington, Field Support, TNRCC

OAK HILL BRANCH LIBRARY
FILE NAME: SSOHL.dwg

Oak Hill Branch Library

5125 Convict Hill Road
Austin, Texas
12 Acres out of the Thomas Anderson Survey No. 17
Austin, Travis County, Texas

OWNER:

CITY OF AUSTIN LIBRARY and PUBLIC WORKS & TRANSPORTATION DEPARTMENT

C.I.P. NO. 853-857-0405

PLANNER:

SITE SPECIFICS

1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-9400

ENGINEER:

TRICIA ALTAMIRANO CONSULTING ENGINEER

1101 CAPITAL OF TEXAS HWY., SOUTH
AUSTIN, TEXAS 78746
(512) 328-2203

ARCHITECT:

ARCHITECTURE + PLUS

1907 NORTH LAMAR BOULEVARD #260
AUSTIN, TEXAS 78705
(512) 478-0970

DRAWING INDEX

SHT. NO.	DRAWING NAME	REVISION/DATE 0*	1*				
1	TITLE SHEET						
2	SITE PLAN						
3	SITE GRADING & DRAINAGE PLAN						
4	EROSION, SEDIMENTATION AND WATER QUALITY CONTROL PLAN						
5	UTILITY PLAN						
6	SITE IMPROVEMENTS AND GENERAL NOTES						
7	WATER QUALITY DETAILS						
8	MISCELLANEOUS DETAILS						
9	EXISTING AND DEVELOPED CONDITIONS STORMWATER RUNOFF						
10	LANDSCAPE PLAN						
11	IRRIGATION PLAN						
12	LANDSCAPE AND IRRIGATION DETAILS						

* INDICATES DRAWING ISSUED FOR APPROVAL BY GOVERNING AUTHORITIES (NOT FOR CONSTRUCTION)
**ISSUED FOR CONSTRUCTION

REVISIONS/CORRECTIONS

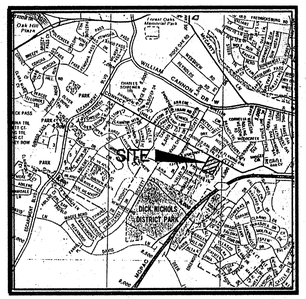
No.	Description	A	B	C	D	E	City of Austin Approval/Date	Date Imaged
1c	ADD 300SF GAZEBO & 90 LF 5' SIDEWALK	1,2,3	12	5505F	13,598 SF	14%	SLB 12.5.99	
2c	ADD NOTES FOR REF TO SP-01-0057D	1,2	12	2,690	76,288	14.6%	12/5.7.01	
3c	Add telecom Filar Hut W/ Agg Drive	1,2,3, 5,10	12	1,379	77,667	14.8%	@ 2.18.15	

A: Revise (R), Add (A), Void (V) sheet numbers. C: Net Change Impervious Cover E: % Site Impervious Cover
B: Total number sheets in Plan Set D: Site Impervious Cover

STATE OF TEXAS
CALEB J. FLAKE
113355
LICENSED
PROFESSIONAL ENGINEER
12/17/15

STATE OF TEXAS
BRIAN K. REIS
82746
REGISTERED
PROFESSIONAL ENGINEER
5/2/01

LOCATION MAP



NOTES

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE DESIGN ENGINEER.
2. WATERSHED STATUS:
   THIS PROJECT IS LOCATED IN THE WILLIAMSON CREEK WATERSHED, IS CLASSIFIED AS BARTON SPRINGS ZONE, IS WITHIN THE EDWARDS AQUIFER RECHARGE ZONE, AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH THE TERMS AND CONDITIONS OF CHAPTER 13-2-ARTICLE V AND CHAPTER 13-7-ARTICLE I OF THE CITY LAND DEVELOPMENT CODE, AS AMENDED BY ORDINANCE 920903-D. MAINTENANCE OF THE WATER QUALITY CONTROLS REQUIRED ABOVE SHALL BE TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN CHAPTER 13-7, ARTICLE 1, THE ENVIRONMENTAL CRITERIA MANUAL AND OTHER ORDINANCES AND REGULATIONS OF THE CITY.
3. THIS SITE IS REQUIRED TO COMPLY WITH THE INTEGRATED PEST MANAGEMENT PLAN.
4. NO PORTION OF THIS SITE FALLS WITHIN A 25 YEAR OR 100 YEAR FLOOD PLAIN.

SITE PLAN RELEASE Sheet 1 of 12
FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-2008 5-16-2000
CASE MANAGER: Gibson APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 13-1-160 of Chapter 13-1 of the Austin City Code.
Don Gibson for Katherine Lowerton
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 — Correction 1 2-25-99 (SLB)
Rev. 2 — Correction 2 —
Rev. 3 — Correction 3 @ 2-18-15

SUBMITTAL DATE: 12-01-94

WATERSHED: WILLIAMSON CREEK, BARTON SPRINGS ZONE

DEVELOPMENT PERMIT NO.: SP94-0459C

ZONING CASE NO.: C14-86-150

SUBMITTED BY: SITE SPECIFICS DATE

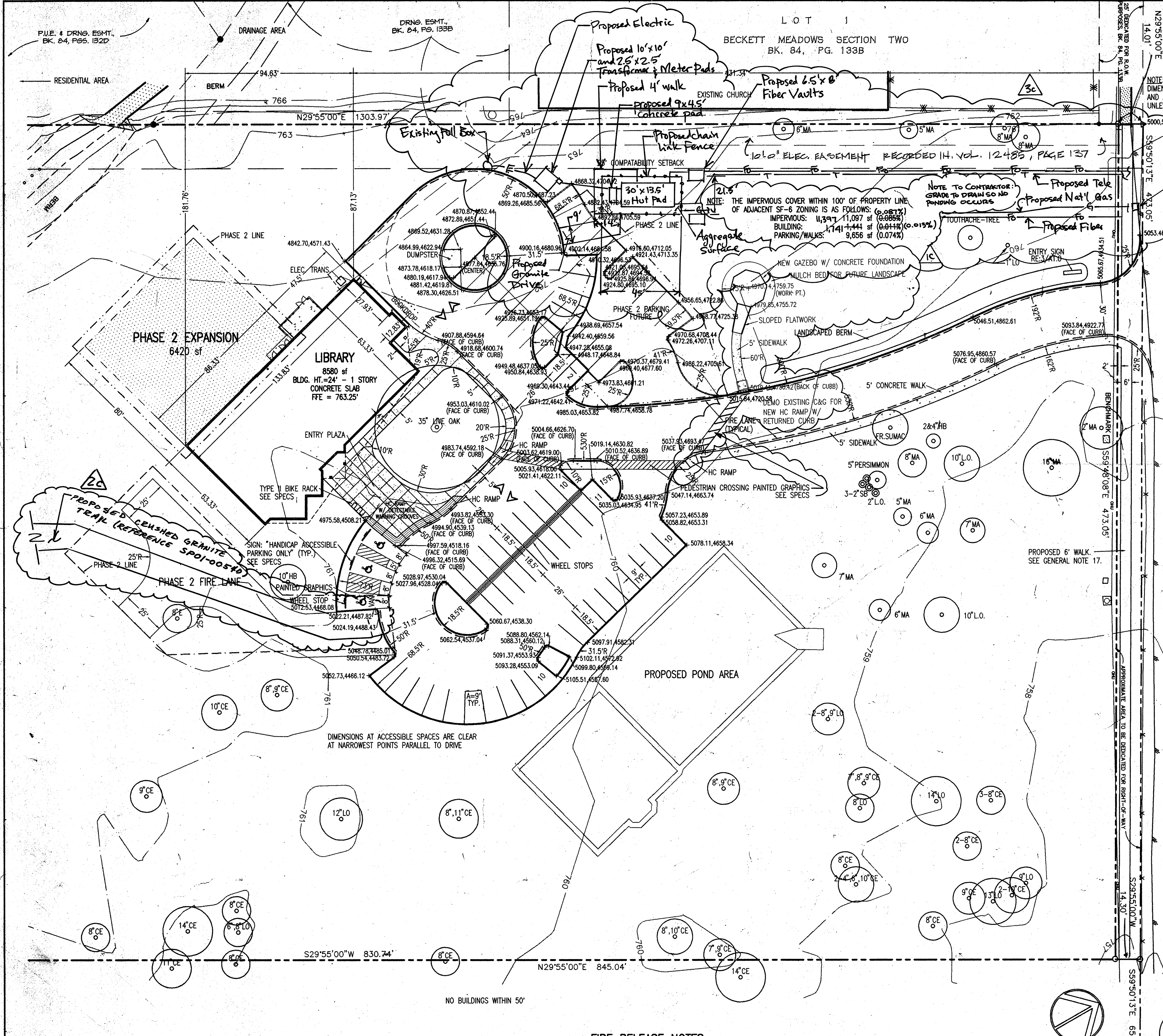
STATE OF TEXAS
TRICIA S. TICHENOR-ALTAMIRANO
62688
REGISTERED
PROFESSIONAL ENGINEER
4/24/95

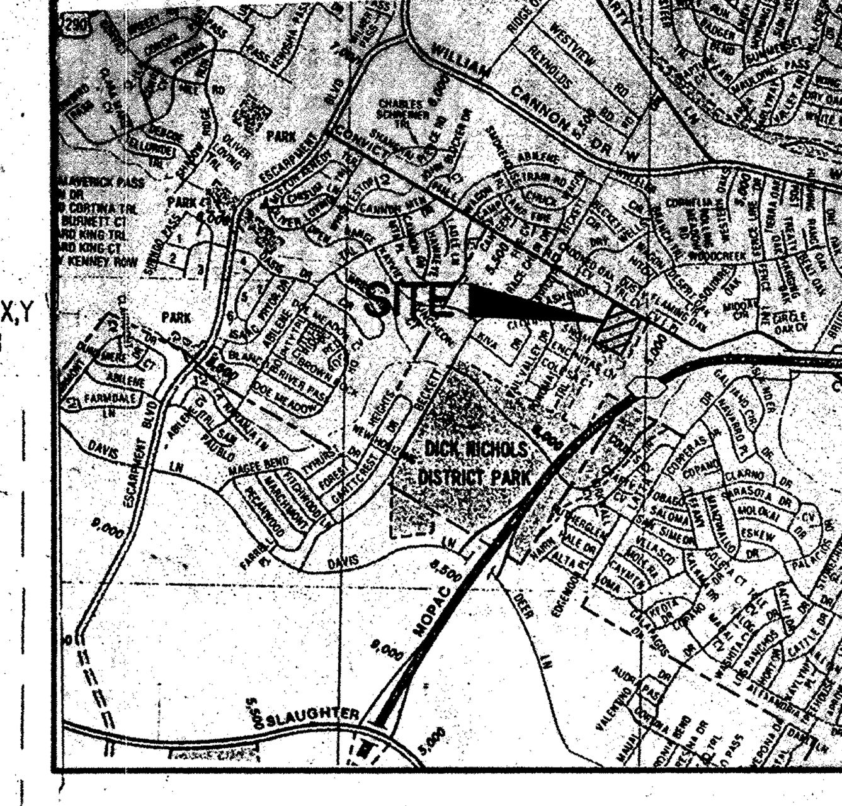
APPROVED BY: N/A
CITY OF AUSTIN FIRE DEPARTMENT DATE

APPROVED BY: N/A
WATER AND WASTEWATER ENGINEER DATE

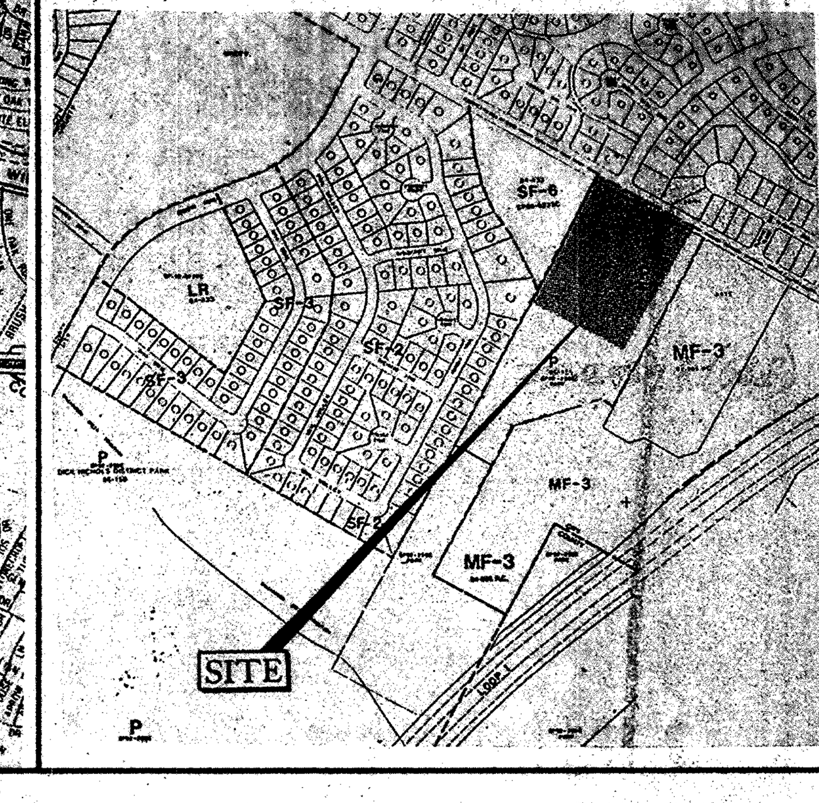
APPROVED BY: 9/25/95
FOR DIRECTOR OF THE PLANNING DEPARTMENT DATE

SPC-94-0459C





LOCATION MAP
NTS



LAND USE MAP
NTS

BUILDING & PARKING TABULATIONS (3c)

TOTAL SITE	= 12 ACRES
LIMIT OF CONSTRUCTION	= 4.25 ACRES
BUILDING AREA:	
PHASE ONE	= ~~8,580~~ 8,880 SF
PHASE TWO	= 6,420 SF
BUILDING COVERAGE OVER ALL IS	15,705 ~~15,000~~ ~~15,300~~ SQ.FT. ~~(2.8%)~~ ~~(2.9%)~~ 3.0%
PARKING REQUIRED @1 TO 400 FOR 15,000 SQ.FT.	= 38 SPACES
PARKING PROVIDED	
PARKING PROVIDED PHASE ONE:	
STANDARD SPACES	= 47 SPACES
H.C. SPACES	= 3 SPACES
TOTAL	= 50 SPACES
PARKING PROVIDED PHASE TWO:	
STANDARD SPACES	= 25 SPACES
REQUIRED BICYCLE PARKING 5%	= 4 SPACES
PROVIDED BICYCLE PARKING	= 4 SPACES
IMPERVIOUS COVER ALLOWED (WATERSHED)	= 78,408 SF (15%)
IMPERVIOUS COVER PROPOSED OVER ALL	= ~~73,048~~ ~~73,598~~ ~~76,288~~ 77,667 SF ~~(14%)~~ 14.8%
PHASE ONE	= ~~53,495~~ ~~54,045~~ 56735
PHASE TWO	= 16,347
BOUNDERY STREET	= 3,206
F.A.RATIO = ~~15,000~~ ~~15,300~~ 15,705 TO 522,720 SQ. FT. OVER ALL	= ~~.029~~ .030 TO 1
BOUNDARY STREET IMPERVIOUS COVER	
1/2 OF ROW	= 16,625 SQ.FT.
ALLOWED IMPERV. COVER AT 15%	= 2,494 SQ.FT.
ACTUAL IMPERV. COVER	= 5,700 SQ.FT.
IMPERV COVER INCLUDED IN SITE	= 3,206 SQ.FT.

Note 1:
The Electric Utility has the right to cut and trim trees and shrubbery and remove obstructions to the extent necessary to keep the easements clear of obstructions.

Note 2:
The owner/developer of this subdivision/lot shall provide the City of Austin Electric Utility Department with any easement and/or access required for the installation and ongoing maintenance of overhead and underground electric facilities within or along the perimeter of this subdivision/lot.

Note 3:
Any Electric Utility activity inside the subdivision shall be included under the general development permit by the owner of the property.

GENERAL NOTES

1. All improvements shall be made in accordance with the released site plan. Any additional improvements will require site plan amendment and approval of the Department of Planning and Development.
2. Approval of this site plan does not include building and Fire Code approval (building permit).
3. All signs must comply with requirements of Sign and Zoning Ordinance.
4. Driveways:
   (a) Owner is responsible for all cost of relocation, or damage to, utilities.
5. All mechanical equipment storage areas, areas from refuse collection and parking will be screened from off site view.
6. Connect to City of Austin's water and wastewater systems for service.
7. The Austin Fire Department requires asphalt or concrete pavement prior to construction as an "All weather driving surface."
8. Sidewalks and driveway approaches constructed shall not be finally accepted until all utility connections are complete and any cuts required by the Utility Installation have been restored.
9. Waterway or site development permit is required prior to all clearing, grading, filling or construction.
10. Building square feet is the same as the Gross Floor Area.
11. Additional electric easement may be required at a later date.
12. The undisturbed vegitation shall remain undisturbed. Any future easements must be approved by ECSD prior to release.
13. All exterior lighting will be hooded or shielded so that the light source is not directly visible from adjacent SF-5 or more restrictive properties.
14. The noise level of mechanical equipment will not exceed 70 DBA at the property line.
15. The use of highly reflective surfaces, such as reflective glass and reflective metal roofs, whose pitch is more than a run of seven to a rise of twelve, will be prohibited.
16. For construction within the right-of-way, a concrete permit is required.
17. Sidewalks along Convict Hill Road are required to be constructed by the property owner after the abutting roadway is improved and concrete curbs are in place. Failure to construct the required sidewalks may result in the withholding of Certificates of Occupancy, building permits, or utility connections by the governing body or utility company. LDC, 13-5-92

NOTE:

* All water quality control facilities as shown on the approved water quality control plan shall be completed and fully operational prior to release of the first phase.

* All disturbed areas within each phase of this project shall be revegetated and all permanent erosion/sedimentation controls completed prior to the issuance of occupancy permits for that phase. Temporary E/S controls shall be adjusted as needed prior to this release to insure that subsequent phase disturbed areas are adequately covered.

* Additionally, any area within the limit of construction of the project which is not adequately revegetated shall be brought into compliance prior to the release of the final phase.

LOT 1
STONECREEK
BK. 86, PGS. 6D & 7A

(3c) Revisions to this Site Plan Clouded and Labeled Delta 3c, were completed by Caleb Flake of BHC Rhodes.

FIRE RELEASE NOTES

1. The Austin Fire Department requires asphalt or concrete pavement prior to construction as an "all-weather driving surface."
2. Hydrants must be installed with the center of the four-inch opening at least 18 inches above finished grade. The four-inch opening must face the driveway or street with three- to six-foot setbacks from the curbline(s). No obstruction is allowed within three feet of any hydrant and the four-inch opening must be totally unobstructed from the street.
3. TIMING OF INSTALLATION: When fire protection facilities are installed by the developer, such facilities shall include all surface access roads which shall be installed and made serviceable prior to and during the time of construction. When alternative methods of protection, as approved by the Fire Chief, are provided, the above may be modified or waived.
4. All pervious/decorative paving shall be engineered and installed for 80,000 lb. live-vehicle loads. Any pervious/decorative paving within 100 feet of any building must be approved by the Fire Department.
5. Commercial dumpsters and containers with an individual capacity of 1.5 cubic yards or greater shall not be stored or placed within ten feet of openings, combustible walls, or combustible eave lines.
6. Fire lanes designated on site plan shall be registered with City of Austin Fire Marshall's office and inspected for final approval.
7. Vertical clearance required for fire apparatus is 13 feet, 6 inches for full width of access drive.

NORTH
SCALE: 1"=30'

STATE OF TEXAS — CALEB J. FLAKE — 113365 — LICENSED PROFESSIONAL ENGINEER — 2/17/15

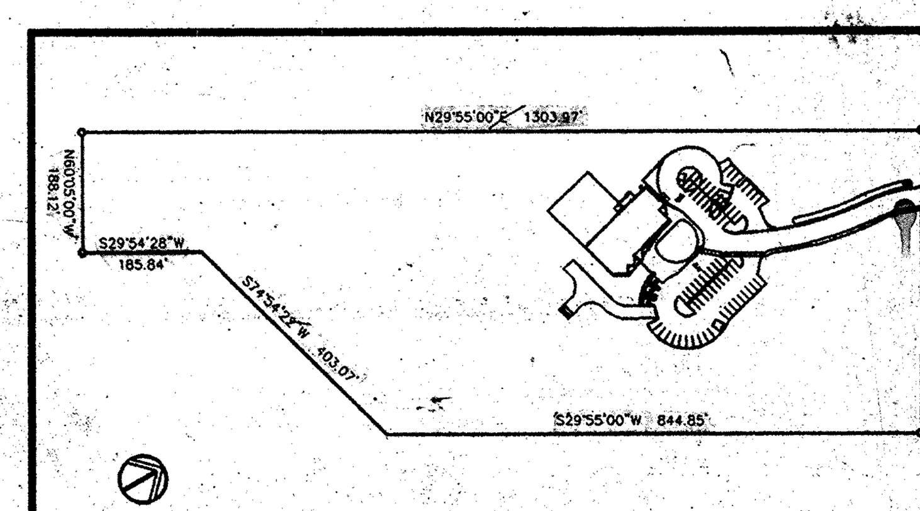
NAME: Oak Hill Branch Library

ADDRESS: 5125 CONVICT HILL ROAD

LEGAL DESCRIPTION: 12 acres out of the Thomas Anderson Survey No. 17 Austin, Travis County, Texas

AREA: 12 ACRES

OWNER: City of Austin Library Department & Public Works & Transportation Department C.I.P. NO. 853-857-0405



SITE MAP
NTS

SITE PLAN RELEASE Sheet 2 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: ~~5-16-98~~ 5-16-2008
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 660 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 Correction 1 2-25-99 (S&B)
Rev. 2 Correction 2 5-2-01 OS
Rev. 3 Correction 3 (m) 2-18-15

REVIEWED BY: [signature] 9/25/95
FOR DIRECTOR OF PLANNING DEPARTMENT — PERMIT NUMBER — DATE

ARCHITECTURE + PLUS
1907 NORTH LAMAR BOULEVARD, #260
AUSTIN, TEXAS 78705
(512) 478-0970
FAX (512) 478-0920

SITE SPECIFICS

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

DIMENSIONED SITE PLAN

ISSUE DATE: May 1, 1995

DRAWN BY:	DATE:
gg	032495
CHECKED BY:	DATE:
BJC	032495

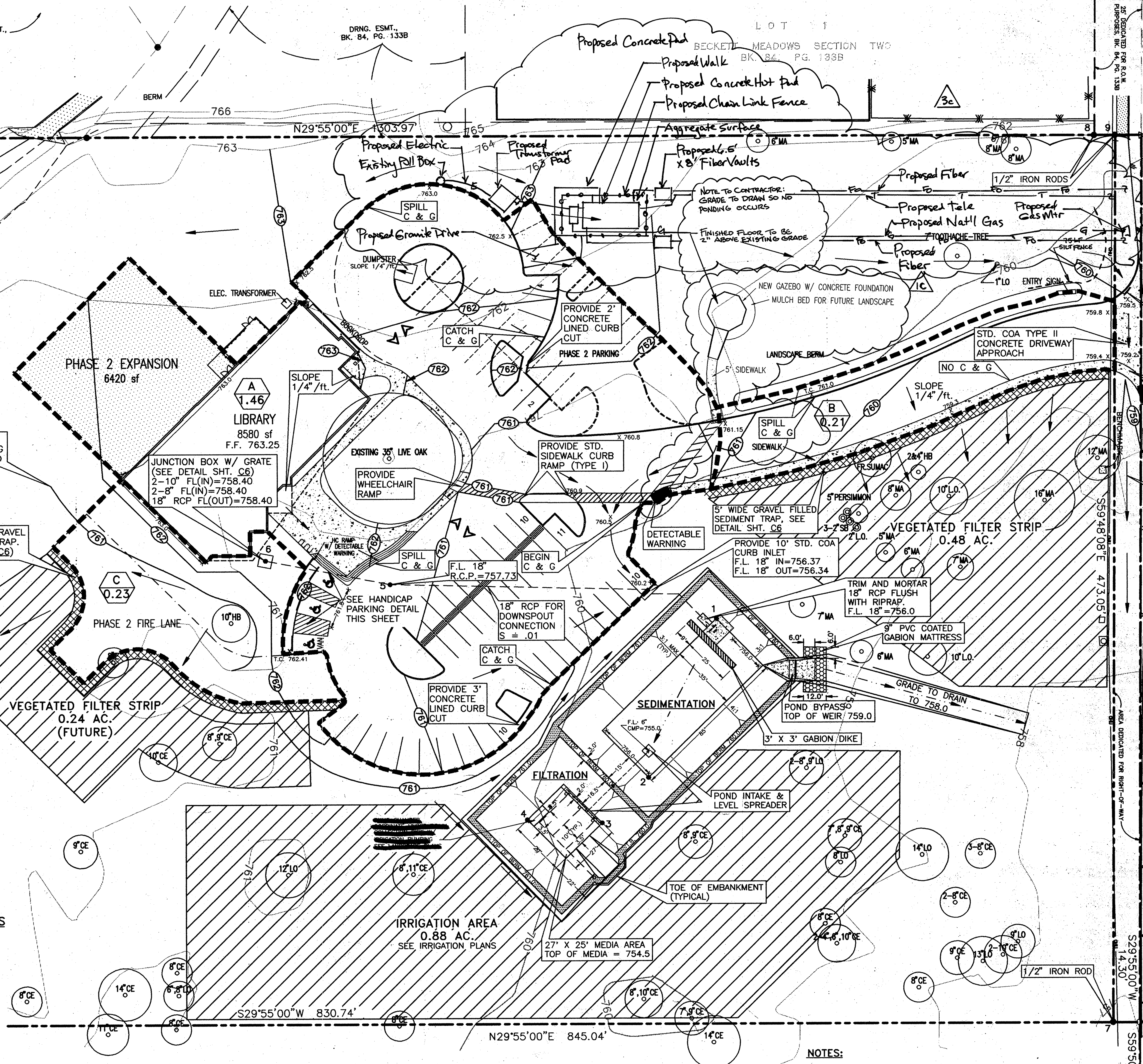
REVISIONS

NO.	DATE	REMARKS
1	030695	
2	030995	EASEMENT

SHEET: C1
2 OF 12

PROJECT NUMBER: 942402

SPC-94-0459C

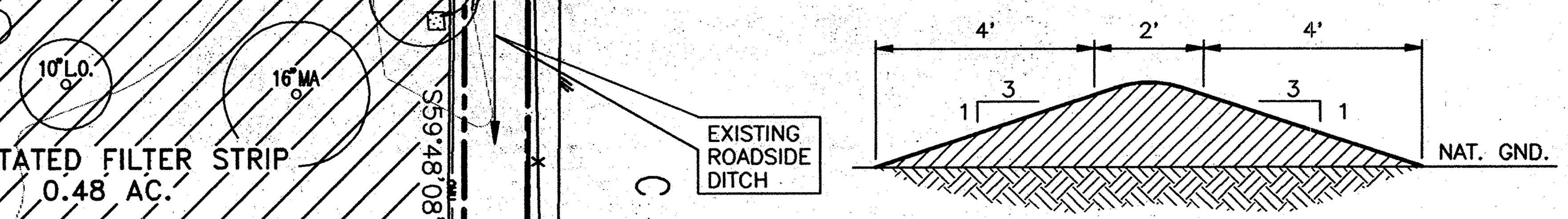


SCALE: 1" = 30'

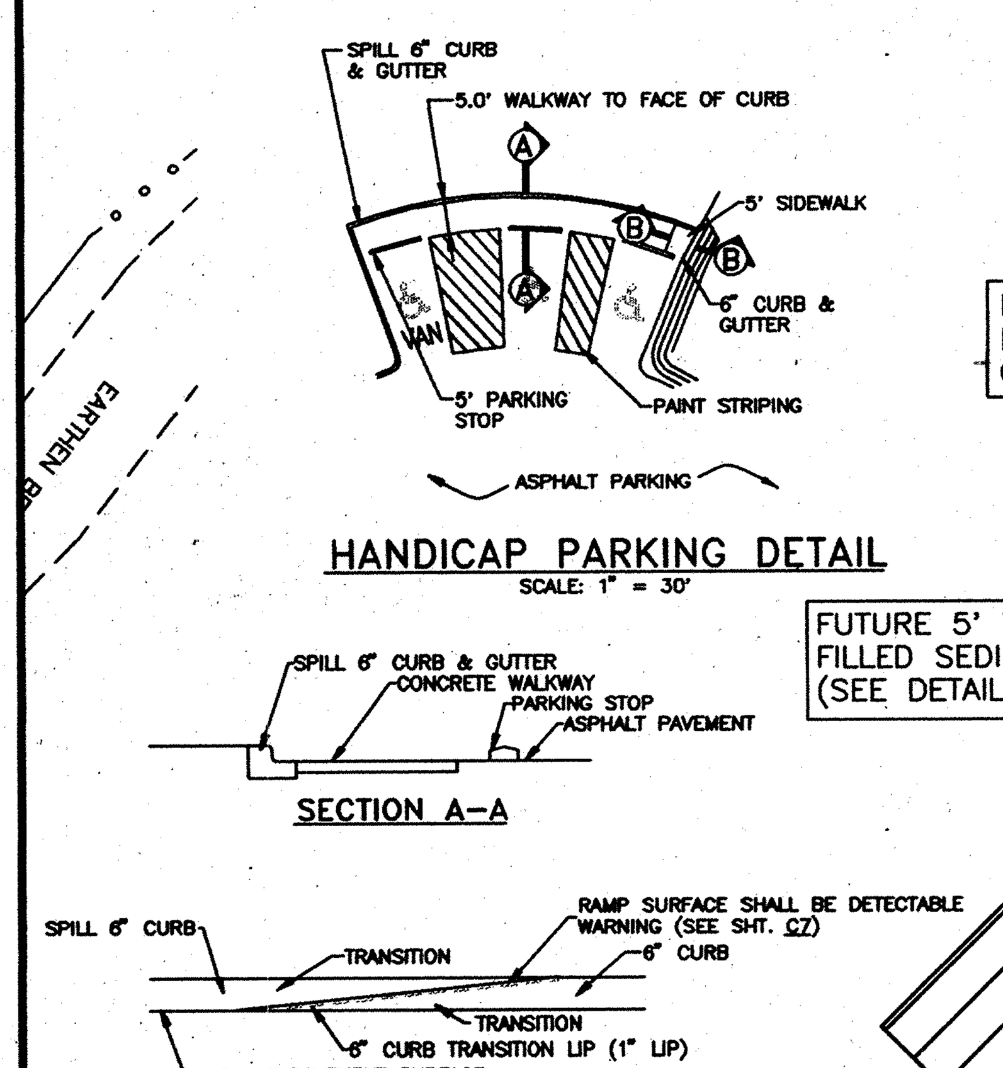
Notes:
1. Temporary Sedimentation and Erosion Controls will be Placed Downstream of any disturbed Area Prior To Construction. Modification to said Controls Can be adjusted in the Field With City Approval
2. Only Minor grading is expected for Site Preparation
3. A generator Pad is Planned to be constructed without a generator being installed at this time. If a generator were to be added, a site plan correction would be Required

DIMENSIONAL CONTROL TABLE

POINT	NORTHING	EASTING
1	4919.61	4577.34
2	4846.17	4632.62
3	4812.78	4641.31
4	4779.85	4621.88
5	4779.19	4475.23
6	4728.46	4431.35
7	4993.47	4868.54
8	5221.52	4454.34
9	5230.93	4459.69



TYPICAL SECTION – LANDSCAPE BERM
NOT TO SCALE

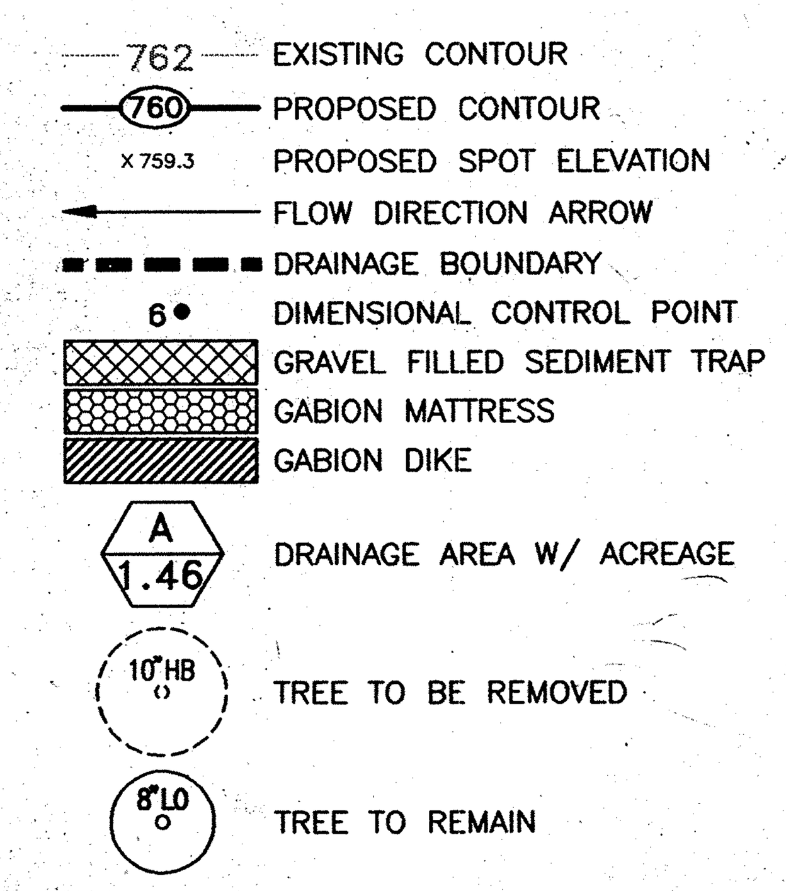


HANDICAP PARKING DETAIL
SCALE: 1" = 30'

SECTION A–A

SECTION B–B

LEGEND



TREE ABBREVIATION LEGEND

CE	CEDAR
LO	LIVE OAK
HB	HACKBERRY
E	ELM
MA	MULTI–ACACIA
SB	SOAPBERRY

CALCULATION OF STORMWATER RUNOFF

AREA A (1.46 AC., I.C.=93%)
C25=(.93)(.87)+(.07)(.29)=.83
C100=(.93)(.96)+(.07)(.36)=.92
tc=5 min.
i25/100=9.8/11.9 in./hr.
Q25/100=11.9/16.0 cfs

AREA B (0.21 AC., I.C.=86%)
C25=(.86)(.87)+(.14)(.29)=.79
C100=(.86)(.96)+(.14)(.36)=.88
tc=5 min.
i25/100=9.8/11.9 in./hr.
Q25/100=1.6/2.2 cfs

AREA C (0.23 AC., I.C.=55%)
C25=(.55)(.87)+(.45)(.29)=.61
C100=(.55)(.96)+(.45)(.36)=.69
tc=5 min.
i25/100=9.8/11.9 in./hr.
Q25/100=1.4/1.9 cfs

SEDIMENTATION/FILTRATION POND CALCULATIONS

A=1.46 AC., CAPTURE VOL.=2.27 in.
REQUIRED:
WQV=12031 CF
VOL. SED.=WQV=12031 CF
AREA SED.=WQV/10=1203 S.F.
VOL. FILT.=0.2 WQV=2406 CF
AREA FILT.=WQV/18=668 S.F.
PROVIDED:
SEDIMENTATION:

ELEV.	STORAGE (C.F.)
755	0
756	1312
759	12643

AREA SED.=3777 S.F.

FILTRATION:

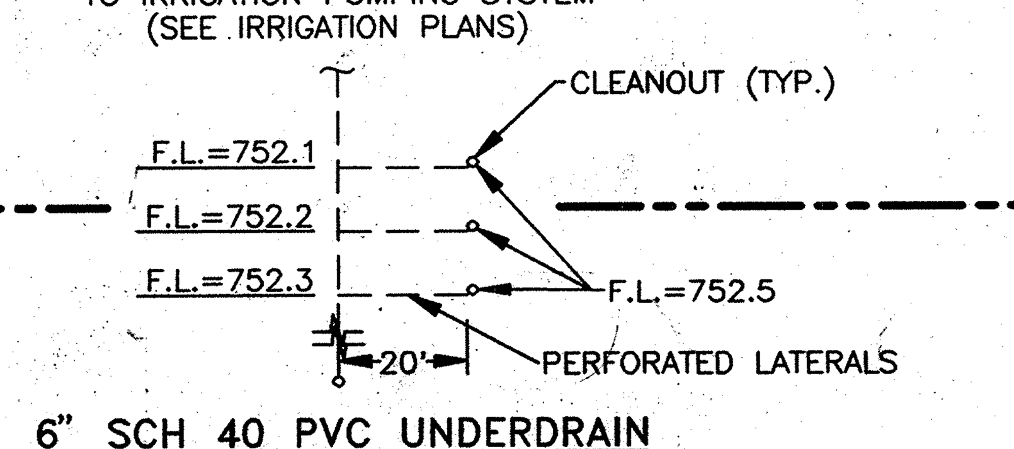
ELEV.	STORAGE (C.F.)
754.5	0
757.5	4131

AREA FILT.=675 S.F.

POND BYPASS SWALE CALCULATIONS

BW=10', n=.045, S=.00625, S.S.=3:1
Q25/100=11.9/16.0 c.f.s.
d25/100=0.6/0.7 ft.
V25/100=1.7/1.9 f.p.s.

Revisions to This Site Plan, Clouded and Labeled Delta 3c, were completed By Caleb Flake of BHC RHODES.



6" SCH 40 PVC UNDERDRAIN
SCALE: 1" = 30'

NOTES:
1. FOR POND DETAILS SEE SHT. C6
2. CONCRETE RIPRAP TO BE 5" CLASS 'A' WITH 6" X 6" X W2.9 X W2.9 WWF
3. FOR SOS WATER QUALITY CALCULATIONS SEE SHT. C3
4. SIDEWALKS ALONG CONVICT HILL RD. ARE REQUIRED TO BE CONSTRUCTED BY THE PROPERTY OWNER AFTER THE ABUTTING ROADWAY IS IMPROVED.
5. VEGETATED FILTER STRIPS, SEDIMENTATION/FILTRATION POND, IRRIGATION AREA AND SEDIMENT TRAPS ARE SET ASIDE FOR WATER QUALITY PURPOSES ONLY AND NO ACTIVITIES ARE PERMITTED IN THESE AREAS WHICH MIGHT DIMINISH THEIR EFFECTIVENESS TO ACHIEVE THAT PURPOSE.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
REVIEWED BY: 9/25/95
DEPARTMENT OF PLANNING AND DEVELOPMENT DATE

STATE OF TEXAS — CALEB J. FLAKE — LICENSED PROFESSIONAL ENGINEER

TACE
Tricia Altamirano Consulting Engineer, Inc.

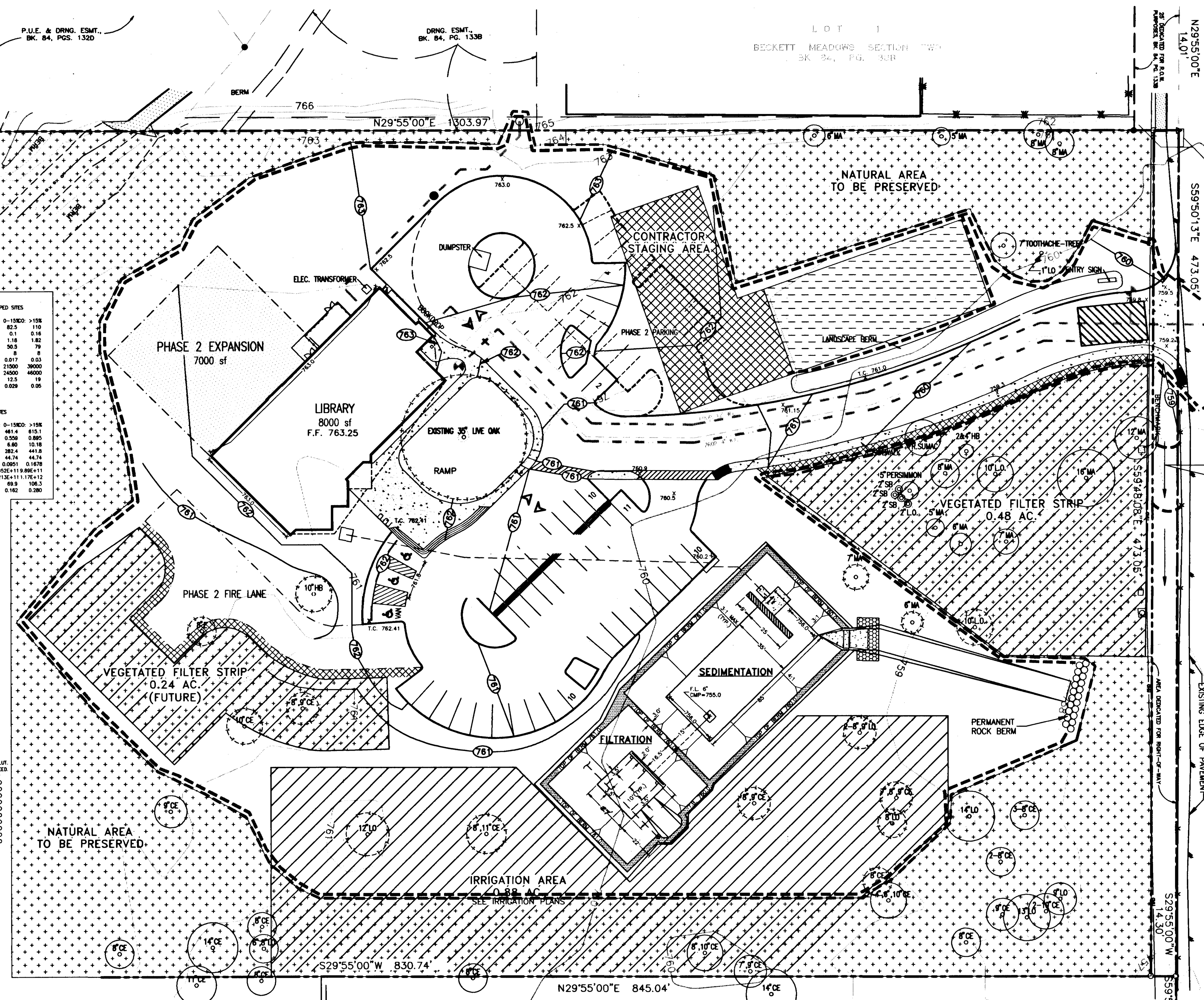
STATE OF TEXAS — TRICIA S. TICHENOR ALTAMIRANO — 62688 — REGISTERED PROFESSIONAL ENGINEER

OAK HILL LIBRARY
SITE GRADING AND DRAINAGE PLAN

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203

JOB NO.94-026.10	SCALE: 1"=30'	SHEET: C3 OF 12
DESIGNED BY: JFS		
DRAWN BY: RWH		
C:\OAKLIBR\OAKSITE.dwg		DATE: 7/7/95

SPC-94-0459C



SCALE: 1" = 30'

SITE PLAN RELEASE Sheet 4 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIBSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 660 of Chapter 13-1 of the Austin City Code.
[signature]
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ______ Correction 1 ______
Rev. 2 ______ Correction 2 ______
Rev. 3 ______ Correction 3 ______

LEGEND

- SILT FENCE
- LIMITS OF CONSTRUCTION
- PROPOSED WASTEWATER LINE
- PROPOSED 12" WATER LINE
- PROPOSED 4" WATER LINE
- GRAVEL FILLED SEDIMENT TRAP
- GABION MATTRESS
- GABION DIKE
- ROCK BERM
- TEMPORARY SPOIL SITE
- STABILIZED CONSTRUCTION ENTRANCE
- NATURAL AREA TO BE PRESERVED
- TREE PROTECTION FENCING
- TREE TO REMAIN

TREE ABBREVIATION LEGEND

CE	CEDAR
LO	LIVE OAK
HB	HACKBERRY
E	ELM
MA	MULTI-ACACIA
SB	SOAPBERRY

NOTES: 1. SEE SHT. C7 FOR EROSION CONTROL DETAILS.
2. ALL SLOPES ON SITE ARE 0–15%

PROJECT: OAK HILL LIBRARY
SOS POLLUTANT LOADINGS

WATER QUALITY AREA	A	(Includes future bldg. & parking expansion)
ACRES	1.46	
IMPERVIOUS COVER	93.2%	
REQ'D. CAPTURE VOL. (IN.)	2.27	
RECHARGE ZONE?	YES	
RUNOFF COEFF. (Rf)	0.759	
LAND USE (SF, MF, CO?)	CO	

BASELINE LOADING

POLLUTANT	UNIT LOAD(Bp)	BASELINE LOAD (Up)
TSS	10.1	14.746
TP	0.007	0.01022
TN	0.1	0.1
COD	4.1	5.986
BOD	1.5	2.19
Pb	0.0006	0.000876
FC	3.34E+09	4.88E+09
FS	2.51E+09	3.66E+09
TOC	1.1	1.606
Zn	0.0015	0.00219

SOS RULES TABLE 1-11
POLLUTANT CONCENTRATIONS FOR DEVELOPED SITES

SF: 0–15%	SF: >15%	MF: 0–15%	MF: >15%	CO: 0–15%	CO: >15%
82.5	110	82.5	110	82.5	110
0.1	0.16	0.1	0.16	0.1	0.16
1.27	2	0.97	1.4	1.18	1.82
28.5	35	28.5	35	50.5	79
8	8	8	8	8	8
0.012	0.02	0.012	0.02	0.017	0.03
6200	8400	6200	8400	21500	39000
7000	11000	7000	11000	24500	46000
7.5	9	7.5	9	12.5	19
0.024	0.04	0.024	0.04	0.029	0.05

DEVELOPED LOADING

POLLUTANT	UNIT LOAD(Dp)	DEVELOPED LOAD (Tp)
TSS	615.1	898
TP	0.895	1.31
TN	10.18	14.86
COD	441.8	645
BOD	44.7	65
Pb	0.1678	0.245
FC	9.89E+11	1.44E+12
FS	1.17E+12	1.70E+12
TOC	106.3	155
Zn	0.280	0.408

UNIT LOADS FOR DEVELOPED SITES

SF: 0–15%	SF: >15%	MF: 0–15%	MF: >15%	CO: 0–15%	CO: >15%
461.4	615.1	461.4	615.1	461.4	615.1
0.559	0.895	0.559	0.895	0.559	0.895
7.10	11.18	5.42	7.83	6.60	10.18
159.4	195.7	159.4	195.7	282.4	441.8
44.74	44.74	44.74	44.74	44.74	44.74
0.0671	0.1118	0.0671	0.1118	0.0951	0.1678
1.57E+11	2.13E+11	1.572E+11	2.13E+11	5.452E+11	9.89E+11
1.78E+11	2.789E+11	1.775E+11	2.79E+11	6.213E+11	1.17E+12
41.9	50.3	41.9	50.3	69.9	106.3
0.134	0.224	0.134	0.224	0.162	0.280

REQUIRED REMOVAL

POLLUTANT	Rp	LOAD
TSS	98.4%	883
TP	99.2%	1.30
TN	99.0%	14.7
COD	99.1%	639
BOD	96.6%	63
Pb	99.6%	0.244
FC	99.7%	1.44E+12
FS	99.8%	1.7E+12
TOC	99.0%	154
Zn	99.5%	0.406

TREATMENT: SED/FILT POND
WQV = 12031

POLLUTANT	REMOVAL EFF.	LOAD REM'VD	LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED.
TSS	87%	781	117	14.746	YES
TP	61%	0.80	0.51	0.01022	YES
TN	31%	4.6	10.3	0.1	YES
COD	67%	432	213	5.986	YES
BOD	51%	33	32	2.19	YES
Pb	80%	0.196	0.049	0.000876	YES
FC	36%	5.20E+11	9.24E+11	4.88E+09	YES
FS	65%	1.11E+12	5.96E+11	3.66E+09	YES
TOC	61%	95	60	1.606	YES
Zn	80%	0.327	0.082	0.00219	YES

SPRAY IRRIGATION SECOND STAGE TREATMENT

AVERAGE SLOPE	1%	
SOILS=Speck stony clay loam	D	(Hydrologic Type)
PERMEABILITY	.06–.20	in./hr.
IRRIGATION AREA PROVIDED	0.88	ac.
APPLICATION RATE	0.08	in/hr (Based on 48 hour empty of pond)

POLLUTANT	CONC.	UNIT LOAD REM'VD [1]	ACRES REQ'D	ANNUAL LOAD REM'VD	ANNUAL LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED. ?
TSS	110	729	0.14	117	0	15	NO
TP	0.16	1	0.47	0.51	0	0.01022	NO
TN	1.82	12	0.84	10	0	0.146	NO
COD	79	524	0.40	213	0	5.986	NO
BOD	8	53	0.56	32	0	2.19	NO
Pb	0.03	0.20	0.24	0.05	0.000	0.000876	NO
FC	39000	1.17E+12	0.78	9.24E+11	0.00E+00	4.88E+09	NO
FS	46000	1.38E+12	0.43	5.96E+11	0.00E+00	3.66E+09	NO
TOC	19	126	0.47	60	0	1.606	NO
Zn	0.05	0.33	0.24	0.08	0	0.00219	NO

[1] ASSUMES 90% EFFICIENCY OF ON-LINE NO-DISCHARGE SYSTEM

PROJECT: OAK HILL LIBRARY
SOS POLLUTANT LOADINGS

WATER QUALITY AREA	B	NOTE: Area B consists of driveway. Treatment is by VFS,
ACRES	0.21	thus the 0% removals for sed./filt. below.
IMPERVIOUS COVER	85.7%	Pretreatment is by sediment trap prior to VFS.
REQ'D. CAPTURE VOL. (IN.)	2.14	
RECHARGE ZONE?	YES	
RUNOFF COEFF. (Rf)	0.701	
LAND USE (SF, MF, CO?)	CO	

BASELINE LOADING

POLLUTANT	UNIT LOAD(Bp)	BASELINE LOAD (Up)
TSS	10.1	2.121
TP	0.007	0.00147
TN	0.1	0.0
COD	4.1	0.861
BOD	1.5	0.315
Pb	0.0006	0.000126
FC	3.34E+09	7.01E+08
FS	2.51E+09	5.27E+08
TOC	1.1	0.231
Zn	0.0015	0.000315

REQUIRED REMOVAL

POLLUTANT	Rp	LOAD
TSS	98.2%	117
TP	99.2%	0.17
TN	98.9%	2.0
COD	99.0%	85
BOD	96.4%	8
Pb	99.6%	0.032
FC	99.6%	1.91E+11
FS	99.8%	2.26E+11
TOC	98.9%	20
Zn	99.4%	0.054

DEVELOPED LOADING

POLLUTANT	UNIT LOAD(Dp)	DEVELOPED LOAD (Tp)
TSS	568.1	119
TP	0.826	0.17
TN	9.40	1.97
COD	408.0	86
BOD	41.3	9
Pb	0.1549	0.033
FC	9.13E+11	1.92E+11
FS	1.08E+12	2.26E+11
TOC	98.1	21
Zn	0.258	0.054

TREATMENT: SED./FILT. POND
WQV= 0

POLLUTANT	REMOVAL EFF.	LOAD REM'VD	LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED.
TSS	0%	0	119	2.121	YES
TP	0%	0.00	0.17	0.00147	YES
TN	0%	0.0	2.0	0.0	YES
COD	0%	0	86	0.861	YES
BOD	0%	0	9	0.315	YES
Pb	0%	0.000	0.033	0.000126	YES
FC	0%	0.00E+00	1.92E+11	7.01E+08	YES
FS	0%	0.00E+00	2.26E+11	5.27E+08	YES
TOC	0%	0	21	0.231	YES
Zn	0%	0.000	0.054	0.000315	YES

VEGETATED FILTER SECOND STAGE TMT.

AVERAGE SLOPE	1%
CONDITION(Poor, Fair, Good?)	GOOD
C(1 YR): (Per LCRA, Tbl. D-6)	0.21
ACRES VFS PROVIDED	0.48

POLLUTANT	CONC.	UNIT LOAD REM'VD	ACRES REQ'D	ANNUAL LOAD REM'VD	ANNUAL LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED. ?
TSS	110	320	0.37	119	0	2.121	NO
TP	0.16	0.47	0.37	0.17	0.00	0.00147	NO
TN	1.82	5.3	0.37	2.0	0.0	0.0	NO
COD	79	230	0.37	86	0	0.861	NO
BOD	8	23	0.37	9	0	0.315	NO
Pb	0.03	0.087	0.37	0.033	0.000	0.000126	NO
FC	39000	5.15E+11	0.37	1.92E+11	0.00E+00	7.01E+08	NO
FS	46000	6.07E+11	0.37	2.26E+11	0.00E+00	5.27E+08	NO
TOC	19	55	0.37	21	0	0.231	NO
Zn	0.05	0.145	0.37	0.054	0.000	0.000315	NO

PROJECT: OAK HILL LIBRARY
SOS POLLUTANT LOADINGS

WATER QUALITY AREA	C	NOTE: Area C consists of future fire lane. Treatment is by VFS
ACRES	0.23	only, thus the 0% removals for sed./filt. below.
IMPERVIOUS COVER	55.4%	Pretreatment is by sediment trap prior to VFS.
REQ'D. CAPTURE VOL. (IN.)	1.60	
RECHARGE ZONE?	YES	
RUNOFF COEFF. (Rf)	0.351	
LAND USE (SF, MF, CO?)	CO	

BASELINE LOADING

POLLUTANT	UNIT LOAD(Bp)	BASELINE LOAD (Up)
TSS	10.1	2.323
TP	0.007	0.00161
TN	0.1	0.0
COD	4.1	0.943
BOD	1.5	0.345
Pb	0.0006	0.000138
FC	3.34E+09	7.68E+08
FS	2.51E+09	5.77E+08
TOC	1.1	0.253
Zn	0.0015	0.000345

DEVELOPED LOADING

POLLUTANT	UNIT LOAD(Dp)	DEVELOPED LOAD (Tp)
TSS	284.5	65
TP	0.414	0.10
TN	4.71	1.08
COD	204.3	47
BOD	20.7	5
Pb	0.0776	0.018
FC	4.57E+11	1.05E+11
FS	5.39E+11	1.24E+11
TOC	49.1	11
Zn	0.129	0.030

REQUIRED REMOVAL

POLLUTANT	Rp	LOAD
TSS	96.4%	63
TP	98.3%	0.09
TN	97.9%	1.1
COD	98.0%	46
BOD	92.7%	4
Pb	99.2%	0.018
FC	99.3%	1.04E+11
FS	99.5%	1.23E+11
TOC	97.8%	11
Zn	98.8%	0.029

TREATMENT: SED/FILT POND
WQV = 0

POLLUTANT	REMOVAL EFF.	LOAD REM'VD	LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED.
TSS	0%	0	65	2.323	YES
TP	0%	0.00	0.10	0.00161	YES
TN	0%	0.0	1.1	0.0	YES
COD	0%	0	47	0.943	YES
BOD	0%	0	5	0.345	YES
Pb	0%	0.000	0.018	0.000138	YES

VEGETATED FILTER SECOND STAGE TMT.

AVERAGE SLOPE	1%
CONDITION (Poor, Fair, Good?)	GOOD
C(1 YR): (Per LCRA, Tbl.D-6)	0.21
ACRES VFS PROVIDED	0.21

POLLUTANT	CONC.	UNIT LOAD REM'VD	ACRES REQ'D	ANNUAL LOAD REM'VD	ANNUAL LOAD REM'NG	TARGET LOAD	POLLUT. EXCEED. ?
TSS	110	320	0.20	65	0	2.323	NO
TP	0.16	0.47	0.20	0.10	0.00	0.00161	NO
TN	1.82	5.3	0.20	1.1	0.0	0.0	NO
COD	79	230	0.20	47	0	0.943	NO
BOD	8	23	0.19	5	0	0.345	NO
Pb	0.03	0.087	0.20	0.018	0.000	0.000138	NO
FC	39000	5.15E+11	0.20	1.05E+11	0.00E+00	768200000	NO
FS	46000	6.07E+11	0.20	1.24E+11	0.00E+00	577300000	NO
TOC	19	55	0.20	11	0	0.253	NO
Zn	0.05	0.145	0.20	0.030	0.000	0.000345	NO

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

REVIEWED BY:
[signature] 9/25/95
DEPARTMENT OF PLANNING AND DEVELOPMENT DATE

TACE
Tricia Altamirano Consulting Engineer, Inc.

OAK HILL LIBRARY
EROSION / SEDIMENTATION, TREE PROTECTION & WATER QUALITY CONTROL PLAN

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203

JOB NO.94-026.10	SCALE: 1"=30'	SHEET: C4 OF 12
DESIGNED BY: JFS		
DRAWN BY: RWH		
C:\OAKLIBR\OAK-ES.dwg		DATE: 7/7/95

STATE OF TEXAS — TRICIA TREVINO ALTAMIRANO — 67688 — REGISTERED PROFESSIONAL ENGINEER — 7/7/95

SPC-94-0459C


CONTRACTOR TO TIE 4" F.M. TO EXIST. M.H. TOP OF RIM EL.=766.38 8" F.L. OUT=762.24 PROPOSED 4" F.L.=762.74
LOT 1
BECKETT MEADOWS SECTION TWO
BK. 84, PG. 133B
P.U.E. & DRNG. ESMT., BK. 84, PGS. 132D
DRNG. ESMT., BK. 84, PG. 133B
EXIST. 8" W.W.L.
N29°55'00"E 1303.97
N29°55'00"E 14.01'
Proposed Electric Transformer & Meter Pad
Concrete pad
Proposed Walk
Chain Link Fence
Fiber Vaults
Existing Pull Box
Proposed Fiber
Proposed Tele
Prop. Gas Mtr.
1¼" PE @ 2psi and 400,000 BTU/Hr Proposed Nat'l Gas
Aggregate Surface
Granite Drive
PROPOSED 2" Yelomine FORCE MAIN
PROPOSED 45 G.P.M. LIFT STATION
DUMPSTER
ELEC. TRANSFORMER
PHASE 2 EXPANSION 6420 sf
LIBRARY 8580 sf F.F. 763.25
PROPOSED 4" W.W.L.
PHASE 2 PARKING
15' W.L. ESMT. VOL. PG.
LANDSCAPE BERM SEE LANDSCAPE PLANS FOR DETAIL
PROPOSED 8" W.L.
PROPOSED 2 1/2" W.L.
SIDEWALK
VEGETATED FILTER STRIP 0.48 AC.
PHASE 2 FIRE LANE
VEGETATED FILTER STRIP 0.24 AC. (FUTURE)
IRRIGATION AREA 0.88 AC. SEE IRRIGATION PLANS
S29°55'00"W 830.74'
N29°55'00"E 845.04'
S29°55'00"W 844.85'
LOT 1
STONECREEK
BK. 85, PGS. 6D & 7A
S59°48'08"E 473.05'
S29°55'00"W 14.30'
S59°50'13"E 65.11'
CONVICT HILL ROAD
EXIST. 24" W.L.
24"x 12" TAP & SLEEVE W. VALVE
EXIST. 8" WWL
WOODCREEK RD. (64' R.O.W.)
12" W.L.
2 1/2" W.L.
EXIST. 8" W.L.
1 1/2" WATER METER
8"x 3" TAP & SLEEVE W. VALVE
SCALE: 1" = 30'
NOTE:
1. CONTRACTOR TO FIELD VERIFY ALL EXIST. UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONTRUCTION.
2. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN (PREPARED BY PROFESSIONAL ENGINEER) TO CITY OF AUSTIN, TRAVIS COUNTY P.I.T.D. AND ENGINEER INCONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PRIOR TO CONSTRUCTION.
LEGEND
PROPOSED 12"/8" WATER LINE
PROPOSED 2 1/2" WATER LINE
PROPOSED WASTEWATER LINE
PROPOSED FIRE HYDRANT W/ GATE VALVE
TREE ABBREVIATION LEGEND
CE CEDAR
LO LIVE OAK
HB HACKBERRY
E ELM
MA MULTI-ACACIA
SB SOAPBERRY
Revisions To This Site Plan, Clouded & labeled Delta 3c, were completed by Caleb Flake of BHC RHODES.
STATE OF TEXAS CALEB J. FLAKE 118355 LICENSED PROFESSIONAL ENGINEER
SPC-94-0459C Oak Hill Library 3c Add gas line to G.F. hut
ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
REVIEWED BY:
9/25/95
DEPARTMENT OF PLANNING AND DEVELOPMENT DATE
SITE PLAN RELEASE Sheet 5 of 12
FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: Gipson APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON:
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON:
under Section 660 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95
Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3
TACE
Tricia Altamirano Consulting Engineer, Inc.
OAK HILL LIBRARY
UTILITY PLAN
STATE OF TEXAS TRICIA S. TICHENOR ALTAMIRANO 62688 REGISTERED PROFESSIONAL ENGINEER
1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203
JOB NO.94-026.10 SCALE: 1"=30' SHEET: C5 OF 12
DESIGNED BY: JAC
DRAWN BY: RWH
C:\OAKLIBR\OAK-W.dwg DATE: 7/7/95
SPC-94-0459C

EROSION/SEDIMENTATION CONTROL NOTES:

1. A) AN ON-SITE ENVIRONMENTAL MANAGER WILL BE IDENTIFIED AT THE PRE-CONSTRUCTION MEETING PURSUANT TO 13-7-14.

   B) IT IS A VIOLATION TO ALLOW SEDIMENT FROM A CONSTRUCTION SITE TO ENTER A CLASSIFIED WATERWAY, PURSUANT TO 13-7-14.

   C) A MID-CONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED FOR ALL PROJECTS WITHIN THE BARTON SPRINGS CONTRIBUTING ZONE. NOTIFY THE ENVIRONMENTAL INSPECTOR AT 499-2278 AT LEAST 3 DAYS PRIOR TO THE MEETING DATE.

   D) THIS PROJECT IS SUBJECT TO THE MAINTENANCE, INSPECTION, AND OPERATING PERMIT REQUIREMENTS OF THE L.D.C. CHAPTER 13-7 ARTICLE I, AS AMENDED BY ORDINANCE 920903-D.

2. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR EXCAVATION).

3. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

4. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.

5. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION F THE EROSION/SEDIMENTATION CONTROLS AND TREE-NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT, 499-2278, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE.

6. ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THAT WHICH IS SHOWN ON APPROVED PLANS MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR CITY ARBORIST AS APPROPRIATE.

7. THE 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.

8. 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 CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.

9. 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. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING DEPARTMENT AND THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT.

10. PERMANENT EROSION CONTROL:

IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION, EXCESS SPOIL AND DEBRIS SHALL BE REMOVED AND THE CONSTRUCTION AREA SHALL BE GRADED TO THE CONTOURS AS SHOWN ON THE PLANS. THE SURFACE OF THE GROUND SHOULD BE SMOOTH WITH NO LARGE ROCKS, STUMPS, OR OTHER DEBRIS. TOPSOIL OF SANDY LOAM, LOAM, CLAY LOAM OR EQUIVALENT AND FREE OF TREE ROOTS, ROCKS GREATER THAN 2 INCHES IN DIAMETER AND OTHER DEBRIS SHALL THEN BE UNIFORMLY SPREAD OVER ALL DISTURBED AREAS TO A MINIMUM DEPTH OF 4 INCHES. THE TOPSOIL SHOULD BE COMPACTED BY TRACKING A BULLDOZER WITH CLEATED TREADS VERTICALLY ON THE SLOPES TO CREATE HORIZONTAL EROSION CHECKS IN THE SURFACE.

RESEEDING SHALL IMMEDIATELY FOLLOW TOPSOILING WITH THE FOLLOWING MIXTURE OF GRASSES AT THE FOLLOWING RATES OF APPLICATION:

ALAMO SWITCH GRASS	3 LBS/AC OR 0.1 LBS/1000 SQ FT
LOMETA INDIAN GRASS	2 LBS/AC OR 0.1 LBS/1000 SQ FT
PREMIER SIDEOATS GRAMA	5 LBS/AC OR 0.2 LBS/1000 SQ FT
GREEN SPRANGLETOP	2 LBS/AC OR 0.2 LBS/1000 SQ FT
BUFFALO GRASS	5 LBS/AC OR 0.2 LBS/1000 SQ FT
BERMUDA GRASS	5 LBS/AC OR 0.2 LBS/1000 SQ FT
RYE GRASS	5 LBS/AC OR 0.2 LBS/1000 SQ FT
TOTAL SEEDING RATE	27 LBS/AC OR 1.2 LB/1000 SQ FT

SEED SHALL BE APPLIED BY BROADCAST OR DRILL METHOD AND SHALL BE DISTRIBUTED EVENLY OVER THE TOPSOILED AREAS. MULCHING SHALL IMMEDIATELY FOLLOW SEED APPLICATION.

MULCHING MAY BE ACCOMPLISHED BY A NUMBER OF METHODS AND WITH VARIOUS MATERIALS. HAY OR STRAW MATERIAL MAY BE SPREAD UNIFORMLY OVER THE GROUND EITHER BY HAND OR WITH A MULCHING OR SHREDDING MACHINE. SMALL BUSH OR TREE LIMBS WHICH ARE REMOVED DURING CONSTRUCTION MAY ALSO BE PASSED THROUGH A SHREDDER AND SPREAD EVENLY OVER THE GROUND. MULCHES SHALL COVER THE GROUND COMPLETELY TO A MINIMUM DEPTH OF 2 INCHES. LARGE CONCENTRATED ACCUMULATIONS SHOULD BE AVOIDED. FERTILIZER SHALL HAVE A COMPOSITION OF 16/20/0 AND SHALL BE APPLIED AT A RATE OF 25 LBS/ACRE. CONTRACTOR SHALL USE PELLETED OR GRANULAR SLOW RELEASE FERTILIZER, TO BE APPLIED ONCE AT PLANTING, AND ONCE AGAIN DURING THE TIME OF ESTABLISHMENT.

THE SEEDED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS FOLLOWING PLANTING AT A RATE SUFFICIENT TO THOROUGHLY SOAK THE SOIL TO A DEPTH OF 6 INCHES. RAINFALL OCCURRENCES OF ONE-HALF INCH OR GREATER SHALL POSTPONE THE WATERING SCHEDULE FOR 1 WEEK. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE AND NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.

UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO: THE RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE DEPARTMENT OF PLANNING AND DEVELOPMENT (INSIDE THE CITY LIMITS); OR THE INSTALLATION OF THE ELECTRIC OR WATER METER (IN THE 5 MILE ETJ), THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED FACILITY WAS CONSTRUCTED IN CONFORMITY TO THE APPROVED PLANS.

11. DEVELOPER INFORMATION:

OWNER:

CITY OF AUSTIN
CYNTHIA D. JORDAN
ARCHITECTURE MANAGEMENT DIVISION – PUBLIC WORKS
P.O. BOX 1088
AUSTIN, TEXAS 78767
(512) 499-7183

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:

TRICIA ALTAMIRANO CONSULTING ENGINEER
1101 CAPITAL OF TX. HWY. S.
BUILDING D, SUITE 210
AUSTIN, TEXAS 78746
(512) 328-2203

PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE:

CONTRACTOR:

PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE:

CONTRACTOR:

12. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT AT 499-2278 AT LEAST 48 HOURS PRIOR TO THE SPOILS REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

SPOILS SITE NOTES

A. THE TEMPORARY SPOILS DISPOSAL SITE AS OUTLINED ON THE EROSION CONTROL MAP. THE DEPTH OF SOIL WILL NOT EXCEED 10 FEET IN ANY AREA.

B. NO PERMANENT SPOILS DISPOSAL ON-SITE. CONTRACTOR SHALL MAKE ARRANGEMENTS AND OBTAIN PERMIT FROM THE CITY OF AUSTIN FOR OFF-SITE DISPOSAL OF SPOILS.

C. OFF-SITE DISPOSAL: THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE INSPECTOR 48 HOURS PRIOR TO THE REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL. NOTIFY INSPECTOR AT 499-2278.

STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION EXHIBIT:

CITY OF AUSTIN
STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

1. 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.

3. 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.

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

5. Protective fences shall surround the trees or group of trees, and will be located at the outer most limit of branches (dripline), or, 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 materials;

   b) root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City Arborist;

   c) wounds to exposed roots, trunk or limbs by mechanical equipment;

   d) other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires.

6. Exceptions to installing fences at tree driplines may be permitted in the following cases:

   a) where there is to be an approved grade change, impermeable paving surface tree well, or other such site development, erect the fence approximately 2 to 4 feet behind the area in question;

   b) where permeable paving is to be installed within a tree's dripline, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving installation to minimize 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 building;

   d) where there are severe space constraints due to tract size, or other special requirements, contact the City Arborist at 499-2273 to discuss alternatives.

   NOTE:?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 feet (or to the limits of lower branching) in addition to the reduced fencing provided.

8. Trees approved for removal shall be removed in a manner which does not impact trees to be preserved.

9. Any roots 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 are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.

10. Any trenching required for the installation of landscape irrigation shall be placed as far from existing tree trunks as possible.

11. No landscape topsoil dressing greater than 4 inches shall be permitted within the dripline of trees. No soil is permitted on the root flare of any tree.

12. 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 according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees available on request from the City Arborist).

14. Deviations from the above notes may be considered ordinance violations if there is substantial noncompliance or if a tree sustains damage as a result.

The following practices are recommended but not required for preservation of trees within development projects:

1. Prior to excavation or grade cutting within tree driplines, make a clean cut between the disturbed and undisturbed root zones with a rock saw or similar equipment to minimize damage to remaining roots.

2. Where any of the above exceptions to fencing at a tree's dripline result in areas of unprotected root zones (under driplines) where heavy traffic is expected, cover those areas with 4 inches of organic mulch or gravel to minimize soil compaction.

3. All grading within protected root zone areas should be done by hand or with small equipment to minimize root damage.

4. Trees most heavily impacted by construction activities should be watered deeply once a week during periods of hot, dry weather. Tree crowns should be sprayed with water periodically to reduce dust accumulation on the leaves.

5. When installing concrete adjacent to the root zone of a tree, use a plastic vapor barrier behind the concrete to prohibit leaching of lime into the root zone.

CITY OF AUSTIN GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS.

2. DESIGN PROCEDURES ARE IN COMPLETE COMPLIANCE WITH THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL.

3. SEE SHEETS 2 FOR BENCHMARK DESCRIPTIONS.

4. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF AUSTIN, CONSULTING ENGINEER, CONTRACTOR, COUNTY ENGINEER (IF APPROPRIATE), AND ANY OTHER AFFECTED PARTIES. NOTIFY P.W. & T.D., CONSTRUCTION INSPECTION DIVISION, 499-7161, AND WATER AND WASTEWATER DEPARTMENT, 477-5761, AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

5. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION, CALL CONSTRUCTION INSPECTION DIVISION, 499-7161.

6. BARRICADES, BUILT TO CITY OF AUSTIN STANDARD SPECIFICATIONS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY.

7. IF BLASTING IS PLANNED BY THE CONTRACTOR, A BLASTING PERMIT MUST BE SECURED PRIOR TO COMMENCEMENT OF ANY BLASTING.

8. ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION.

9. THE LOCATION OF ANY WATER AND/OR WASTEWATER LINES SHOWN ON THE PLANS MUST BE VERIFIED BY THE WATER AND WASTEWATER DEPARTMENT.

10. USE ONE CALL UTILITY SYSTEM: DIAL 472-2822, 48 HOURS BEFORE YOU DIG.

11. ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE.

12. CAST BRONZE SURVEY MARKERS SHALL BE PLACED IN CONCRETE IN PERMANENT, ACCESSIBLE LOCATIONS AT THE TIME OF CONSTRUCTION. THE LOCATIONS OF THE MARKERS SHALL BE INDICATED ON THE CONSTRUCTION PLANS. A MINIMUM OF ONE MARKER SHALL BE PLACED FOR EACH 20 ACRES OF THE PROJECT. REFERENCE WILL BE PLACED ON THE MARKER BY P.W. & T.D. AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE.

13. PRIOR TO START OF CONSTRUCTION OF UTILITIES, THE OWNER OR CONTRACTOR SHALL CONTACT MONTY LOWELL OF PLANNING AND DEVELOPMENT DEPARTMENT, AT 499-2882, FOR REVIEW OF UTILITY PLOT PLAN AND ISSUANCE OF A PERMIT.

14. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE OFFICE OF LAND DEVELOPMENT SERVICES, THE DESIGNING ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMITY TO THE APPROVED PLANS.

15. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 E. 6TH STREET, AUSTIN, TEXAS.

SPECIAL NOTES

1. THE SUBGRADE MATERIAL IN THE OAK HILL LIBRARY COMPLEX WAS TESTED BY RABA-KISTNER-BRYTEST CONSULTANTS, INC. DATED OCTOBER 7, 1994 AND THE DRIVEWAY & PARKING SECTIONS DESIGNED ACCORDING TO CURRENT CITY OF AUSTIN DESIGN CRITERIA. THE DRIVEWAY & PARKING SECTIONS TO BE CONSTRUCTED ARE AS FOLLOWS:

2. COMPACTED SUBGRADE – THE EXPOSED SUBGRADE SHOULD BE PREPARED BY REMOVING THE UPPER 8 INCHES OF ORGANIC SILTS, CLAYS AND ANY ROOTS OR SOFT MATERIALS AND REPLACING WITH A WELL GRADED, LOW P.I. SOIL (P.I. 4 TO 15). THE UPPER 8 INCHES OF THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH THD TEST METHOD TEX 114-E.

IN AREAS WHERE LOOSE FILL EXISTS, THE MATERIALS SHOULD BE REMOVED AND REPLACED WITH A WELL GRADED, LOW P.I. SOIL (P.I. 4 TO 15) AND COMPACTED TO 95% IN ACCORDANCE WITH THD TEST METHOD TEX 114-E. EXCAVATED MATERIALS MAY BE REUSED BUT MUST MEET CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 201. ROOTS, ORGANICS AND OTHER UNSUITABLE MATERIAL SHOULD BE REMOVED AS WELL AS ANY ROCK GREATER THAN 6 INCHES. EXCAVATION AND COMPACTION OF THE EXISTING FILL MATERIAL SHOULD EXTEND THE FULL WIDTH OF THE DRIVEWAY & PARKING AREA. THE REMOVAL AND REPLACEMENT OF THE FILL SHOULD BE INSPECTED AND TESTED BY THE SOILS TESTING LABORATORY.

	MINIMUM THICKNESS REQUIREMENTS	
	HOT MIX ASPHALT SURFACE	CRUSHED LIMESTONE BASE
DRIVEWAY	1-1/2"	10"
DRIVEWAY (IN THE EVENT THAT THE CLAY ABOVE THE LIMESTONE IS REMOVED)	1-1/2"	8"

3. MANHOLE FRAMES, COVERS, AND WATER VALVE COVERS WILL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY A QUALIFIED CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.

4. SIDEWALK REQUIREMENTS SHOWN ON SHEET C2.

5. A CURB LAY DOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.

6. INSIDE THE AUSTIN CITY LIMITS, SIDEWALKS SHALL BE COMPLETED PRIOR TO ACCEPTANCE OF ANY TYPE I OR TYPE II DRIVEWAY APPROACHES AND/OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY. WHEN OUTSIDE THE AUSTIN CITY LIMITS, LETTERS OF CREDIT MAY BE POSTED OR OTHER SUITABLE FINANCIAL ARRANGEMENTS MAY BE MADE TO INSURE CONSTRUCTION OF THE SIDEWALKS. IN EITHER CASE, SIDEWALKS ADJACENT TO "COMMON AREAS", PARKWAYS, OR OTHER LOCATIONS ON WHICH NO BUILDING CONSTRUCTION WILL TAKE PLACE, MUST BE CONSTRUCTED PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION.

CONSTRUCTION SEQUENCING

1. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY OF AUSTIN AND TRICIA ALTAMIRANO CONSULTING ENGINEER FOR CONSTRUCTION ALONG CONVICT HILL ROAD.

2. A PRECONSTRUCTION CONFERENCE SHALL BE HELD SUBSEQUENT TO INSTALLATION OF THE INITIAL PHASE OF EROSION AND SEDIMENTATION CONTOLS TO DEMONSTRATE COMPLIANCE WITH THE EROSION AND SEDIMENTAION CONTROL MANUAL AND THE APPROVED PLANS. THIS CONFERENCE SHALL BE HELD PRIOR TO ANY START OF SITE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ARRANGE A MEETING DATE WITH GEORGE BOSTICK, HEAD OF INSPECTION OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AT 499-2278 AT LEAST THREE DAYS PRIOR TO THE MEETING TIME. THE DESIGN ENGINEER AND/OR THE PERMIT APPLICANT SHALL ALSO BE PRESENT AT THIS MEETINGS. CONTRACTOR SHALL ASSIGN REPRESENTATIVE WHO WILL BE ON CALL 24 HOURS A DAY WHILE UTILITY CONTRACTOR IS IN THE PROCESS OF TIEING INTO THE EXISTING WATER AND WASTEWATER SYSTEMS.

3. CALL PUBLIC WORKS & TRANSPORTATION DEPT., CONSTRUCTION INSPECTION AT 499-7161, 48 HOURS PRIOR TO BEGINNING ANY WORK, CALL THE ONE CALL CENTER AT 472-2822 FOR UTILITY LOCATIONS AND OBTAIN PERMIT FOR ANY WORK WITHIN CITY OF AUSTIN RIGHT-OF-WAY. CONTACT GILBERT ALVAREZ @499-7152 TO OBTAIN A STREET CUT PERMIT FOR CONVICT HILL RD. AND WOODCREEK ROAD FOR THE UTILITY CONSTRUCTION.

4. INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY SITE CLEARING AND GRUBBING. NOTIFY TRANSPORTATION AND PUBLIC SERVICES DEPARTMENT, CONSTRUCTION INSPECTION DIVISION WHEN INSTALLED. HAVE THE ENVIRONMENTAL PROJECT MANAGER CONTACT THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT TO SCHEDULE A PRECONSTRUCTION COORDINATION MEETING TO BE HELD ON SITE. REVISE EROSION CONTROLS, IF NEEDED, TO COMPLY WITH INSPECTORS' DIRECTIVES, AND REVIEW CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION CONTROL PLAN.

5. DELIVER APPROVED ROUGH CUT SHEETS TO THE CONSTRUCTION INSPECTION DIVISION OF THE TRANSPORTATION AND PUBLIC SERVICES DEPARTMENT PRIOR TO CLEARING AND GRUBBING.

6. CONSTRUCT (ROUGH CUT) PONDS TO ACT AS A SEDIMENT TRAP.

7. INSPECT AND MAINTAIN TEMPORARY CONTROLS WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED.

8. ROUGH GRADE APPROPRIATE AREAS OF SITE. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.

9. HAVE ENVIRONMENTAL PROJECT MANAGER SCHEDULE A MID-CONSTRUCTION CONFERENCE TO COORDINATE CHANGES IN THE CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF THE EROSION CONTROL PLAN AFTER POSSIBLE CONSTRUCTION ALTERATIONS TO THE SITE. PARTICIPANTS SHALL BE: THE CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR AND ENVIRONMENTAL PROJECT MANAGER. IDENTIFY ANTICIPATED COMPLETION DATE AND COORDINATE FINAL CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE WITH A CITY INSPECTOR.

10. BEGIN CONSTRUCTION OF BUILDING.

11. INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT.

12. BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.

13. REGRADE PAVED AREAS TO SUBGRADE.

14. INSURE THAT ALL UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY FIRST COURSE BASE MATERIAL ON ALL PAVED AREAS.

15. COMPLETE ALL UNDERGROUND INSTALLATIONS WITHIN THE RIGHT-OF-WAY/ON SITE PAVED AREAS.

16. INSTALL CURB AND GUTTER.

17. LAY FINAL BASE COURSE ON ALL PAVED AREAS.

18. LAY ASPHALT.

19. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.

20. INSTALL GRAVEL FILLED SEDIMENT TRAP.

21. CLEAN SEDIMENT FROM PONDS AND COMPLETE AS PER PLANS.

22. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.

23. COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED BY ITEMS 20 & 22.

GENERAL NOTES
TEXAS NATURAL RESOURCE CONSERVATION COMMISSION WATER POLLUTION ABATEMENT PLAN

1) THIS DEVELOPMENT SHALL MEET ALL APPLICABLE TEXAS WATER COMMISSION CRITERIA SET FORTH IN 31 TAC SECTION 313.4 WATER POLLUTION ABATEMENT PLAN FOR REGULATED DEVELOPMENT FOR DEVELOPMENT LOCATED ON THE RECHARGE ZONE OF THE EDWARDS AQUIFER.

2) DURING CONSTRUCTION, STORMWATER RUNOFF SHALL BE FILTERED BY SILT FENCES AND ROCK BERMS. THESE TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREAS ARE REVEGETATED AND PERMANENTLY STABILIZED. ALL TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL BE INSPECTED AFTER EVERY RAINFALL AND SHALL BE REPLACED AS NECESSARY. A ROUTINE INSPECTION OF THE CONTROLS SHALL ALSO BE ESTABLISHED FOR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.

3) PERMANENT EROSION/SEDIMENTATION CONTROL MEASURES SHALL CONSIST OF REPLANTING THE DISTURBED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SOILS AND GRASSES DISTURBED AND/OR REMOVED DURING SITE PREPARATION AND /OR CONSTRUCTION SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION UPON COMPLETION OF THE SITE.

4) THE CONTRACTOR SHALL BE REQUIRED TO IMMEDIATELY SUSPEND ALL CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER'S REPRESENTATIVE IF ANY SIGNIFICANT RECHARGE FEATURES, PREVIOUSLY UNKNOWN, ARE ENCOUNTERED. CONSTRUCTION ACTIVITIES MAY NOT BE INITIATED UNTIL THE EXECUTIVE DIRECTOR OF THE TEXAS WATER COMMISSION HAS GIVEN THE APPROVAL.

5) ANY MODIFICATIONS, AS OUTLINED IN 31 TAC SECTION 313.4(E), MUST BE APPROVED BY THE EXECUTIVE DIRECTOR OF THE TNRCC BEFORE CONSTRUCTION OF THAT MODIFICATION CAME COMMENCE.

SITE PLAN RELEASE Sheet 6 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON:
under Section 660 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ______ Correction 1 ______
Rev. 2 ______ Correction 2 ______
Rev. 3 ______ Correction 3 ______

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
LIFT STATIONS AND FORCE MAINS
GENERAL CONSTRUCTION NOTES

LIFT STATIONS:

1. THE LIFT STATION HAS AN AUTO-DIAL TELEMETRY SYSTEM CAPABLE OF AUTOMATICALLY NOTIFYING SEVERAL RESPONSIBLE PARTIES OF A MALFUNCTION OF THE LIFT STATION.

2. TYPE & METHOD OF INITIATING STAND-BY POWER TO RESTORE TO SERVICE WITHIN FOUR HOURS:

   BACK-UP POWER FOR THE LIFT STATION (AS REQUIRED BY 30 TAC §313.5(C)(3)) SHALL BE PROVIDED BY TWO SEPARATE SOURCES OF POWER. IDENTIFY SEPARATE POWER COMPANIES, INDEPENDENT FEEDER LINES, ON-SITE OR PORTABLE GENERATOR WITH AUTOMATIC SWITCH OVER CAPABILITIES.

OR AN OVERSIZED WET WELL AND COLLECTION SYSTEM MAY BE USED AS A SUBSTITUTE FOR BACKUP POWER. IT SHALL BE SIZED TO ALLOW FOR RESPONSE AND REPAIR TIME. 31 TAC §313.5(C)(3)

3. AN AUDIO-VISUAL ALARM SYSTEM (RED FLASHING LIGHT AND HORN) SHALL BE PROVIDED FOR ALL LIFT STATIONS. 30 TAC §317.3(E)(5).

4. ALL PUMPS ARE OF A NON-CLOG DESIGN, CAPABLE OF PASSING 2-INCH DIAMETER SPHERES, AND HAVE NO LESS THAN 3-INCH DIAMETER SUCTION AND DISCHARGE OPENINGS.

5. ALL PUMPS ARE SELF-PRIMING OR HAVE ACCEPTABLE PRIMING SYSTEMS.

6. NO PUMP CONTROLS (VALVES) SHALL BE LOCATED IN THE WET WELL.

7. ON-SITE HOISTING EQUIPMENT OR ACCESS FOR MOBILE HOISTING EQUIPMENT FOR REMOVAL OF PUMPS, MOTORS, VALVES, ETC., SHALL BE INCLUDED IN THE STATION DESIGN.

FORCE MAINS:

1. FORCE MAIN/PIPE SELECTION SHALL COMPLY WITH 30 TAC §313.5(C)(2)(II) [SDR 26 OR LESS] AND 30 TAC §317.3(D)(5). THE PIPE TO BE USED IS: 2" SCH 80 PVC

2. FORCE MAINS SHALL BE TESTED TO A MINIMUM PRESSURE EQUAL TO 1.5 TIMES THE MAXIMUM DESIGN PRESSURE. 31 TAC §317.3(D)(6)

3. LINE LEAK TESTING OF THE FORCE MAIN SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN TEXAS AS COMPLYING WITH 30 TAC §317.2(D)(4).

ADDITIONAL TEMPORARY EROSION/ SEDIMENTATION CONTROL REQUIREMENTS

SECTION 13-7-14(d) REQUIRES ADDITIONAL TEMPORARY EROSION AND SEDIMENTATION CONTROLS FOR DEVELOPMENT PROJECTS LOCATED WITHIN THE BARTON SPRINGS ZONE. THE EROSION/SEDIMENTATION CONTROL PLAN MUST INCLUDE NOTES THAT CONTAIN THE FOLLOWING INFORMATION:

1. DESIGNATION OF AN ENVIRONMENTAL PROJECT MANAGER WHO IS ON SITE >90% OF THE TIME, IS REQUIRED TO BE AT THE PRE-CONSTRUCTION AND MID-CONSTRUCTION MEETINGS, AND IS RESPONSIBLE FOR COMPLIANCE ON SITE OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS. THIS PERSON IS RESPONSIBLE FOR ENSURING COMPLIANCE OF THE CONTROLS DURING THE CONSTRUCTION PERIOD. SHOULD THE PROJECT MANAGER NEED TO BE ABSENT FROM THE SITE FOR AN EXTENDED PERIOD (IN EXCESS OF ONE WEEK), ECSD PERSONNEL SHOULD BE INFORMED OF THE NAME OF A DESIGNATED REPLACEMENT.

   THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN MUST SHOW TO SCALE THE LOCATION OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROLS, PERMANENT WATER QUALITY CONTROLS AND FLOOD CONTROLS. SYMBOLS USED TO SHOW CONTROLS MUST BE CLEAR AND DISTINCTIVE.

2. MODIFICATIONS AND ADDITIONS TO THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN MUST BE APPROVED BY BOTH THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT AND A REGISTERED ENGINEER EMPLOYED BY THE OWNER.

3. THE MAXIMUM LENGTH OF TIME BETWEEN CLEARING AND FINAL REVEGETATION OF A PROJECT SHALL NOT EXCEED 18 MONTHS, UNLESS EXTENDED BY THE DIRECTOR OF THE ENVIRONMENTAL AND CONSERVATION SERVICES DEPARTMENT. DISTURBED AREAS MUST BE MAINTAINED TO PREVENT EROSION AND SEDIMENT DISCHARGE TO ANY WATERWAYS OR DRAINAGE FACILITIES OFFSITE.

   (THIS DOES NOT AFFECT THE EXPIRATION OF THE SITE PLAN OR BUILDING PERMIT. THIS REQUIREMENT APPLIES TO SITES THAT HAVE SUSPENDED WORK AND ARE EXPERIENCING EROSION CONTROL PROBLEMS DUE TO DISTURBED SOIL CONDITIONS.)

4. IT SHALL BE A VIOLATION OF THE CODE TO ALLOW SEDIMENT FROM A CONSTRUCTION SITE TO ENTER A CLASSIFIED WATERWAY DUE TO A FAILURE TO MAINTAIN THE REQUIRED EROSION AND SEDIMENTATION CONTROLS OR TO FOLLOW THE APPROVED CONSTRUCTION SEQUENCE.

5. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS 6 INCHES LONG OR LONGER; 6 INCHES IN DIAMETER OR LARGER; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. WHEN SUCH A VOID IS DISCOVERED IT IS THE RESPONSIBILITY OF THE ENVIRONMENTAL PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF AUSTIN ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION.

ADDITIONAL TNRCC RULES

Additionally, all contractors conducting regulated activities associated with this proposed regulated project shall be provided with copies of this approval letter and the entire contents of the submitted WPAP so as to convey to the contractors the specific conditions of this approval. During the course of these regulated activities, the contractors shall be required to keep on-site copies of the WPAP and this approval letter.

The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection may be necessary if excessive solids are being discharged from the site.

If any abandoned wells exist on the site or are found during construction of the proposed development, they shall be plugged in accordance with the local underground water conservation district's plugging procedures, if applicable, or 30 TAC §287.50(a) of this title (relating to Standards for Plugging Wells that Penetrate Undesirable Water Zones), or an equivalent method, as approved by the Executive Director. Pursuant to 30 TAC §287.48(e), the person that plugs such a well shall, within 30 days after plugging is complete, submit a Water Well Completion and Plugging Report to the Executive Director, through the Austin Region Office and to the Barton Springs/Edwards Aquifer Conservation District.

Any drill holes resulting from core sampling on-site or down-gradient of the site shall be plugged with cement slurry, from the bottom of the hole to the top of the hole, so as to not allow water or contaminants to enter the subsurface environment.

No waste-disposal wells, new confined animal feeding operations, land disposal of Class I wastes, or use of sewage holding tanks as parts of organized collection systems shall be allowed on the recharge zone of this regulated development.

NO.	DESCRIPTION	BY	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY: TST
DATE: JANUARY, 1995

Tricia S. Altamirano 5/24/95

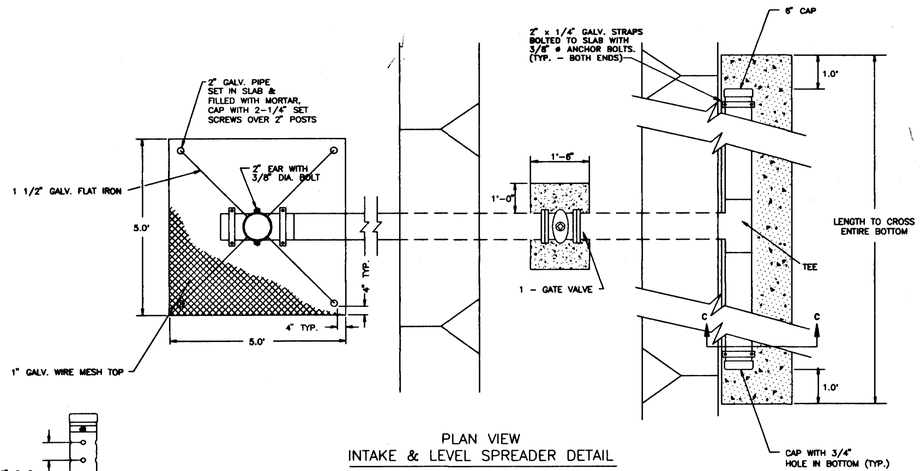
TACE

TRICIA ALTAMIRANO
CONSULTING ENGINEER, INC.
1101 CAPITAL OF TEXAS HWY. S.
BLDG. D, SUITE 210
AUSTIN, TEXAS 78746

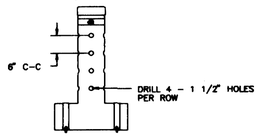
OAK HILL LIBRARY
SITE IMPROVEMENTS
GENERAL NOTES

SHEET NO. C6
OF 12 SHEETS
C:\OAKLIBR\OAK-NTS.dwg
JOB NO. 5/1/95

SPC-94-0459C



PLAN VIEW
INTAKE & LEVEL SPREADER DETAIL
N.T.S.



RISER PIPE DETAIL
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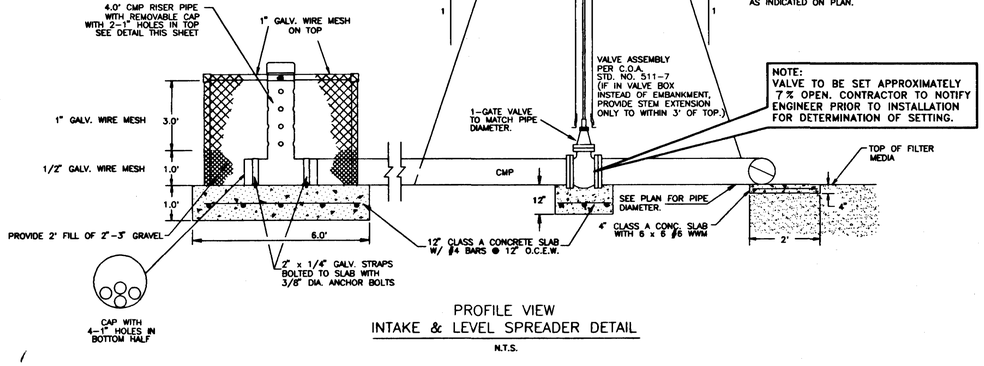
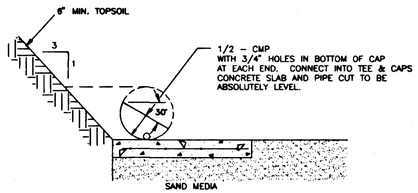
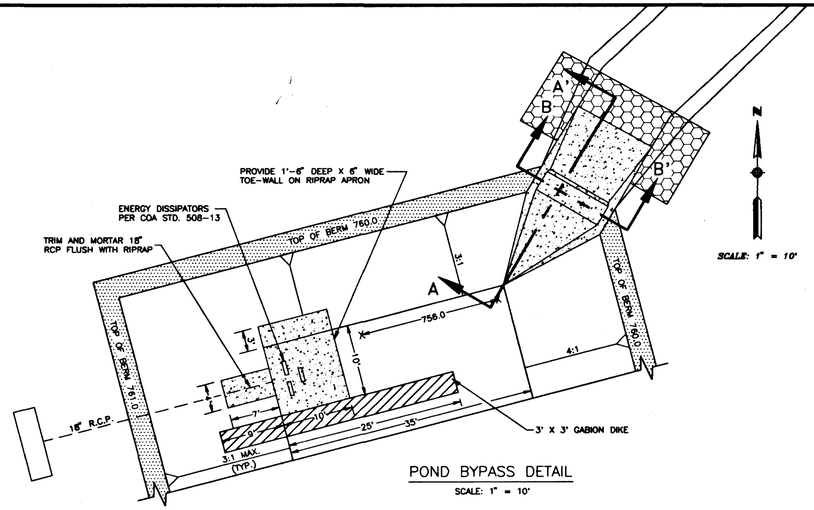


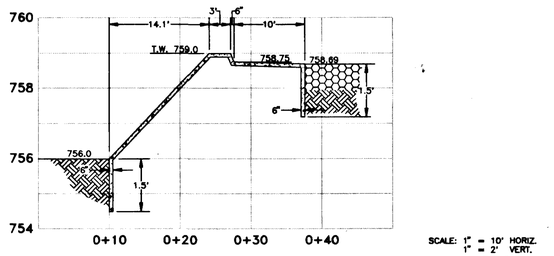
PROFILE VIEW
INTAKE & LEVEL SPREADER DETAIL
N.T.S.



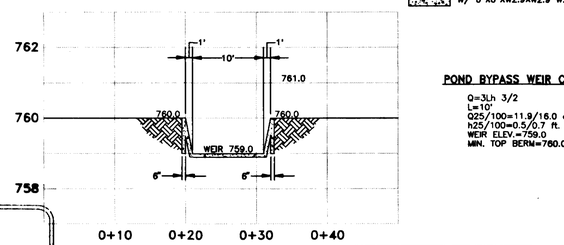
SECTION C-C
N.T.S.



POND BYPASS DETAIL
SCALE: 1" = 10'



SECTION A-A'



SECTION B-B'

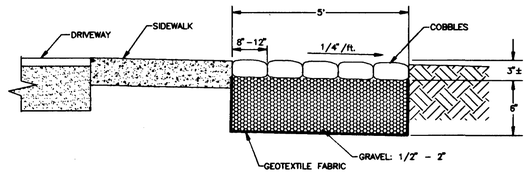
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

LEGEND

5" CLASS 'A' CONCRETE RIPRAP W/ 6"X6"XW2.9XW2.9 W.W.F.

POND BYPASS WEIR CALCULATIONS

Q=3Lh 3/2
L=10'
Q25/100=11.9/16.0 c.f.s.(SHT. C2)
h25/100=0.5/0.7 ft.
WEIR ELEV.=759.0
MIN. TOP BERM=760.0



ENTRANCE DRIVE & FUTURE FIRE LANE SEDIMENT TRAP
(N.T.S.)

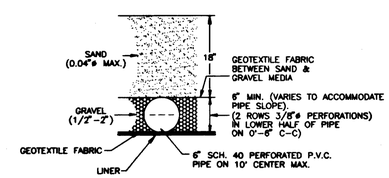
CLAY LINER SPECIFICATIONS

PROPERTY	TEST METHOD	UNIT	SPECIFICATION
PERMEABILITY	ASTM D-2434	CM/SEC	1×10^{-6}
PLASTICITY INDEX OF CLAY	ASTM D-423 & D-424	%	NOT LESS THAN 15
LIQUID LIMIT OF CLAY	ASTM D-2216	%	NOT LESS THAN 30
CLAY PARTICLES PASSING	ASTM D-422	%	NOT LESS THAN 30
CLAY COMPACTION	ASTM D-2216	%	95% OF STANDARD PROCTOR DENSITY

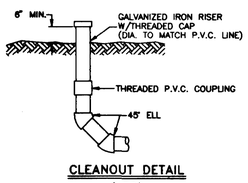
NOTE: THE CLAY LINER SHOULD HAVE A MINIMUM THICKNESS OF 12 INCHES.

GEOTEXTILE FABRIC

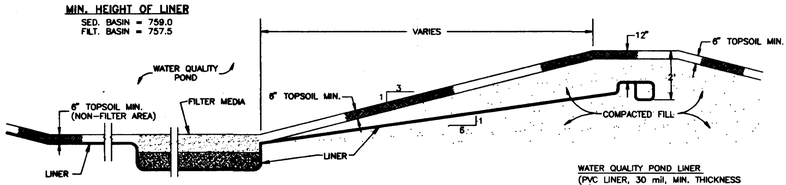
PROPERTY	TEST METHOD	UNIT	SPECIFICATION
MATERIAL	NONWOVEN GEOTEXTILE FABRIC		
UNIT WEIGHT		Oz/SQ.YD.	8 (min.)
FILTRATION RATE		IN./SEC.	0.08 (min.)
PUNCTURE STRENGTH	ASTM D-751 (MODIFIED)	LB.	125 (min.)
MULLEN BURST STRENGTH	ASTM D-751	PSI	400 (min.)
TENSILE STRENGTH	ASTM D-1682	LB.	300 (min.)
EQUIV. OPENING SIZE	US STANDARD SIEVE	NO.	80 (min.)



FILTER MEDIA UNDERDRAIN
(N.T.S.)

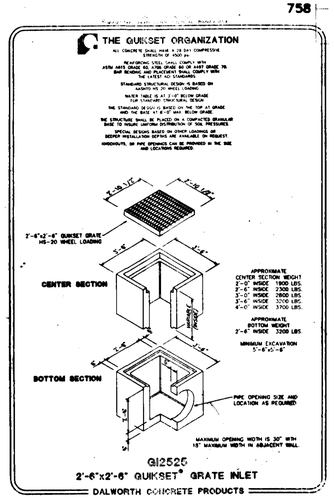


CLEANOUT DETAIL
(N.T.S.)



WATER QUALITY POND LINER DETAIL
(N.T.S.)

WATER QUALITY POND LINER
(PVC LINER, 30 mil, MIN. THICKNESS W/GEOTEXTILE FABRIC ON TOP AND BOTTOM.
LINER TO EXTEND UNDER SEDIMENTATION/FILTRATION AREA.



NOTE:
CONTRACTOR RETAINS THE OPTION OF USING EITHER CLAY OR IMPERVIOUS PVC AS THE POND LINER. LINER TO EXTEND TO WEIR ELEVATION.

SITE PLAN RELEASE Sheet 7 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-96
CASE MANAGER: GIBSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: _____
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: _____
under Section 46.0 of Chapter 13-1 of the Austin City Code.
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

REVIEWED BY:
DEPARTMENT OF PLANNING AND DEVELOPMENT — DATE 9/25/95

TACE
Tricia Altamirano Consulting Engineer, Inc.

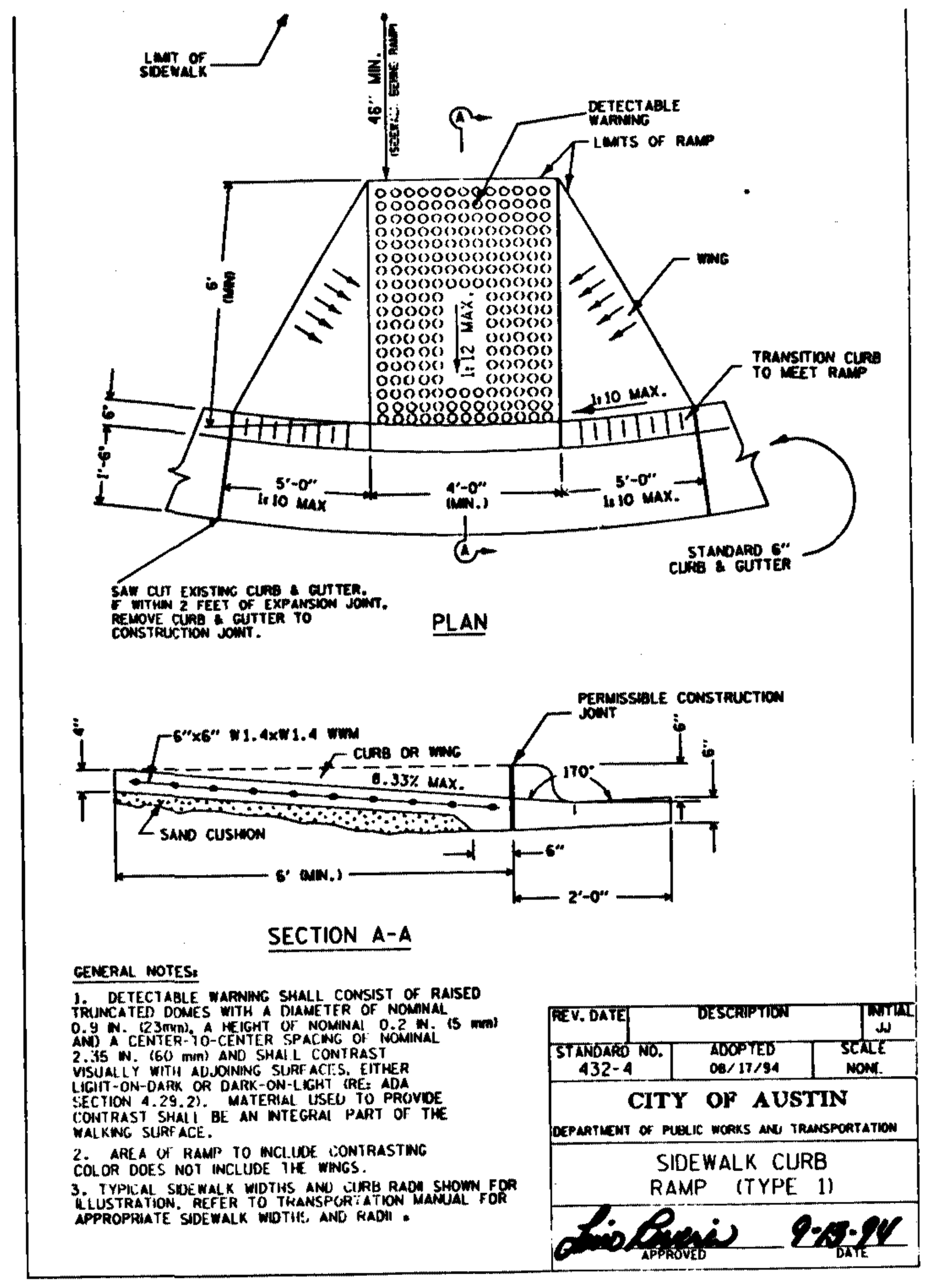
OAK HILL LIBRARY
WATER QUALITY DETAILS

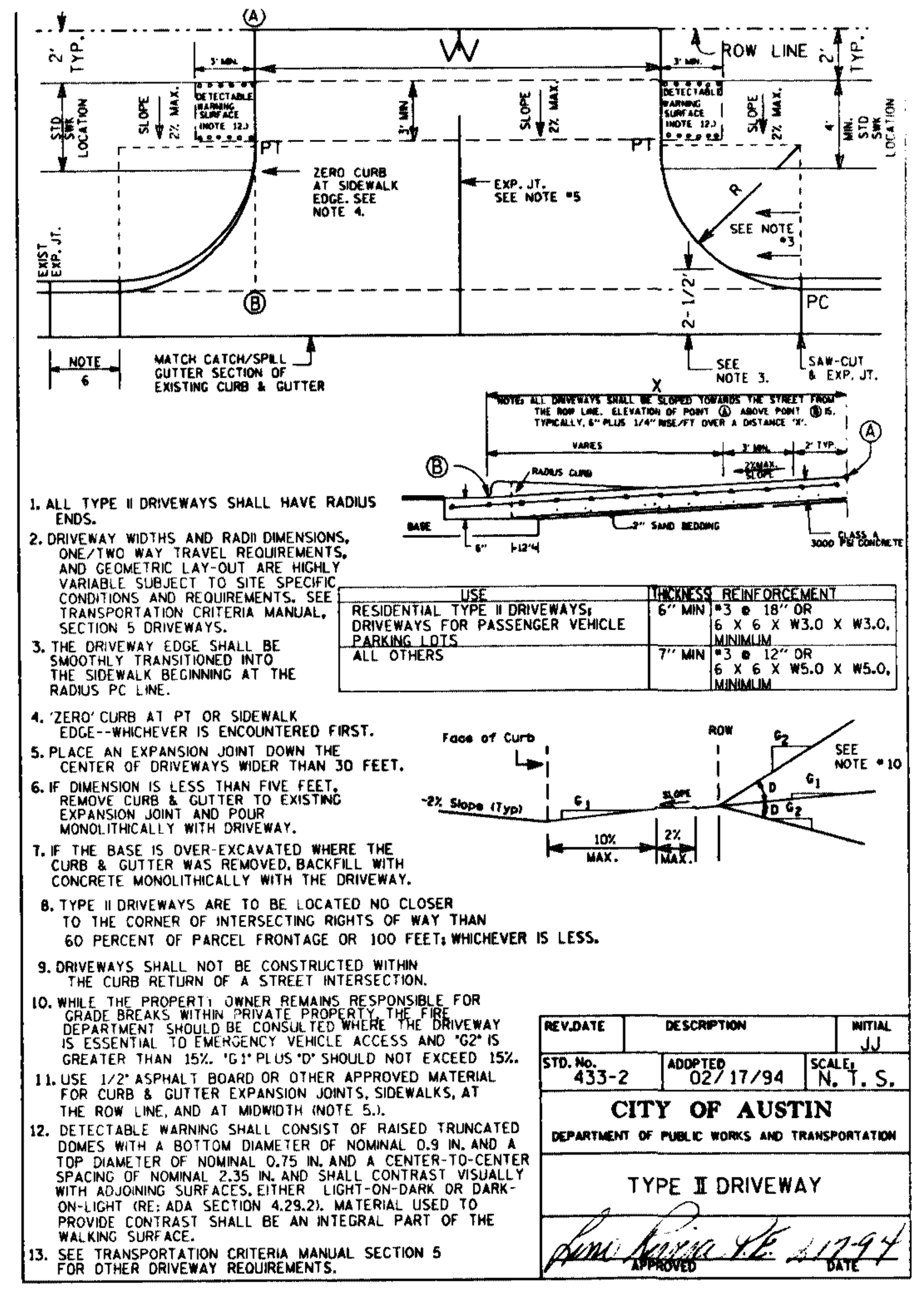
1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203

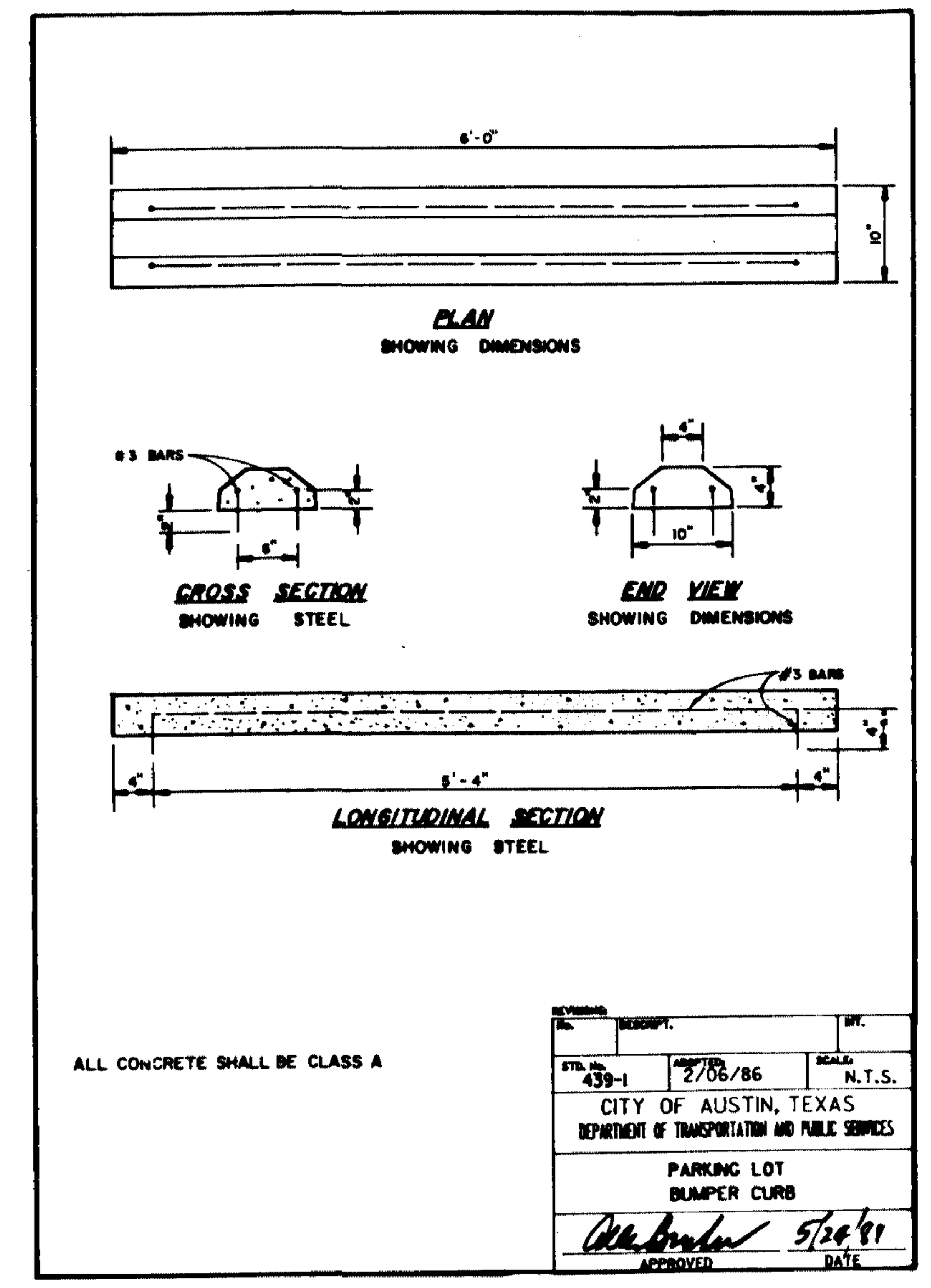
JOB NO.94-026.10	SCALE: AS NOTED	SHEET: C7 OF 12
DESIGNED BY:		
DRAWN BY: RWH		
C:\OAKLIBR\WQ-DTL.dwg		DATE: 8/1/95

STATE OF TEXAS — TRICIA S. ALTAMIRANO — 62258 — REGISTERED PROFESSIONAL ENGINEER

SPC-94-0459C

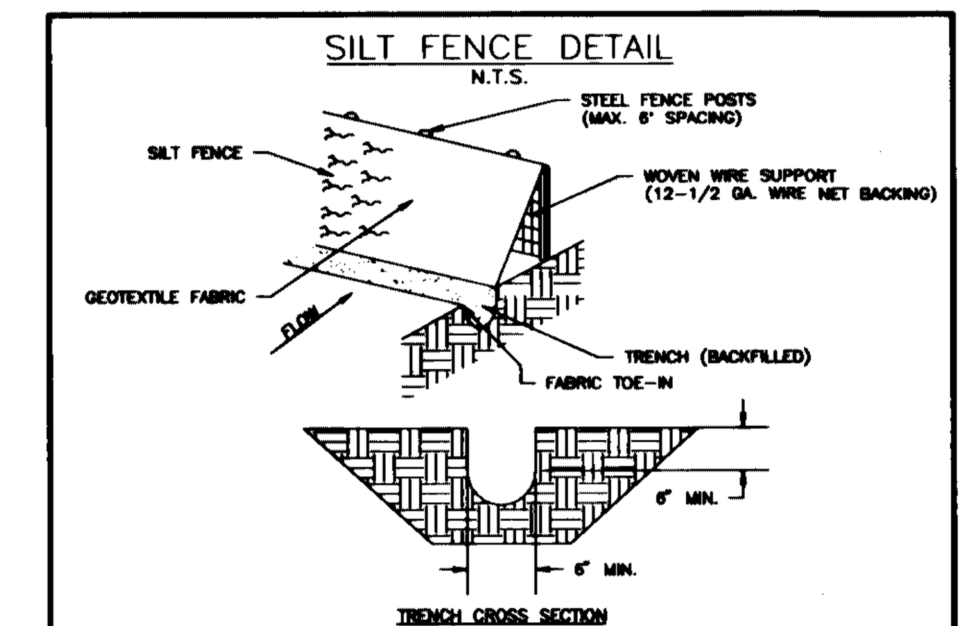






SILT FENCE DETAIL

N.T.S.

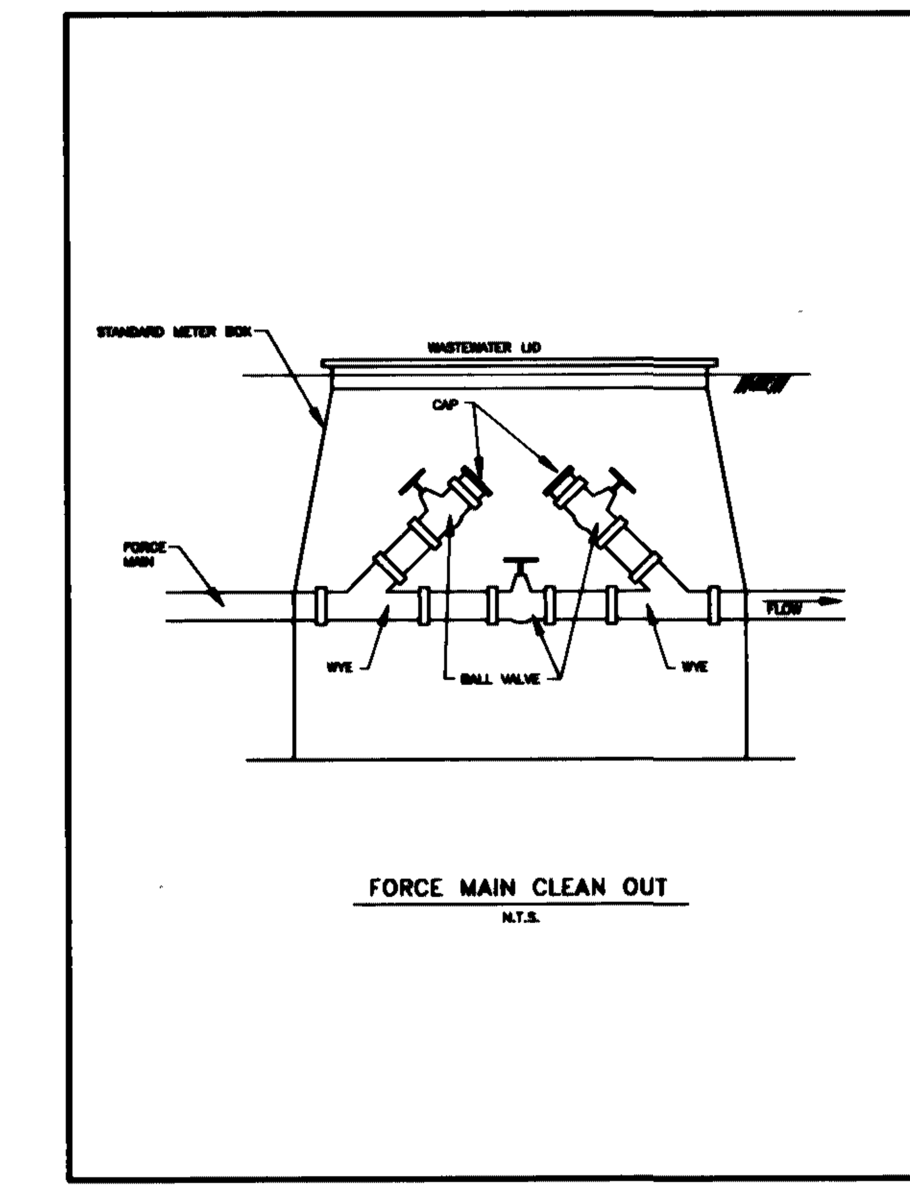


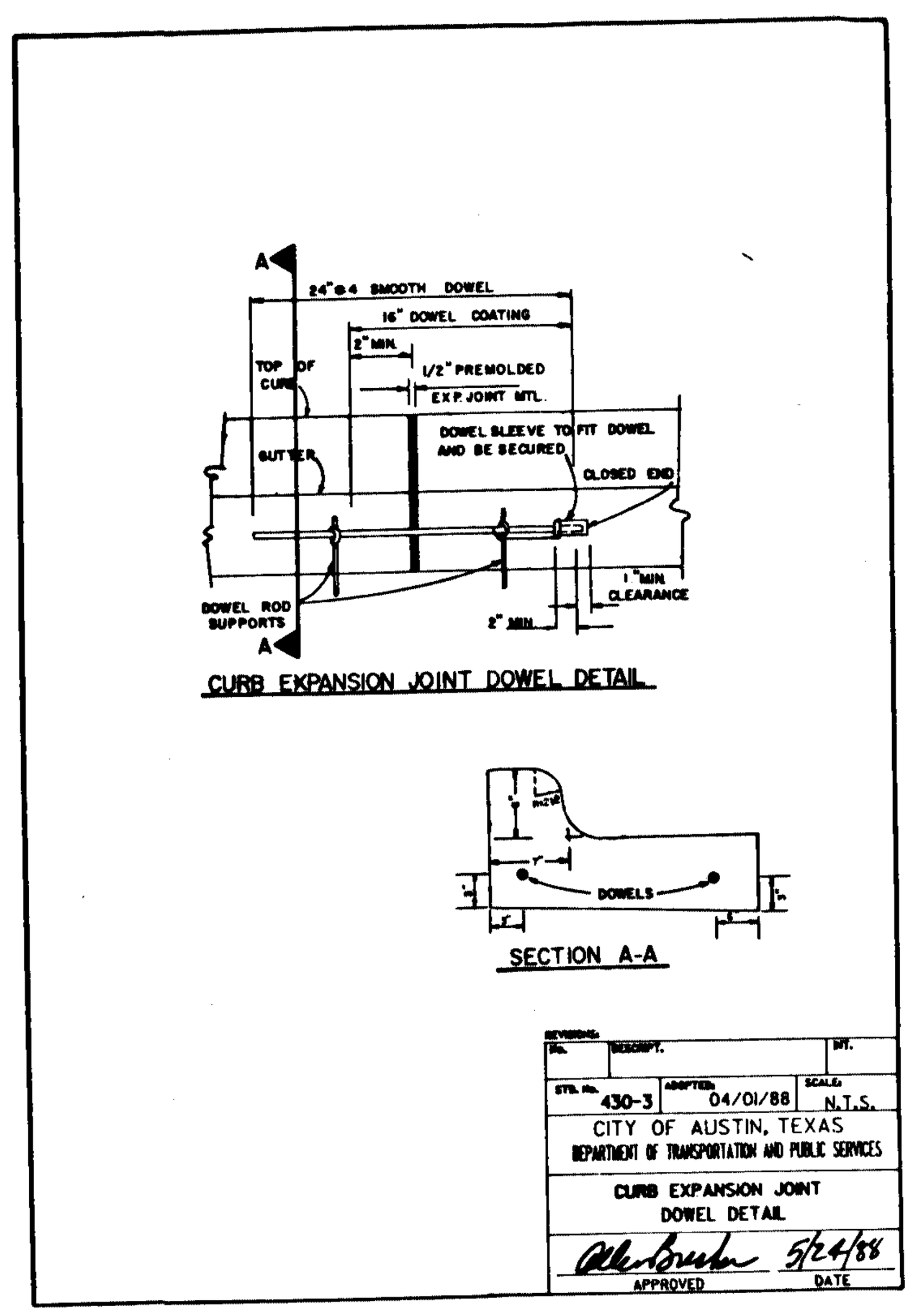
GENERAL NOTES:

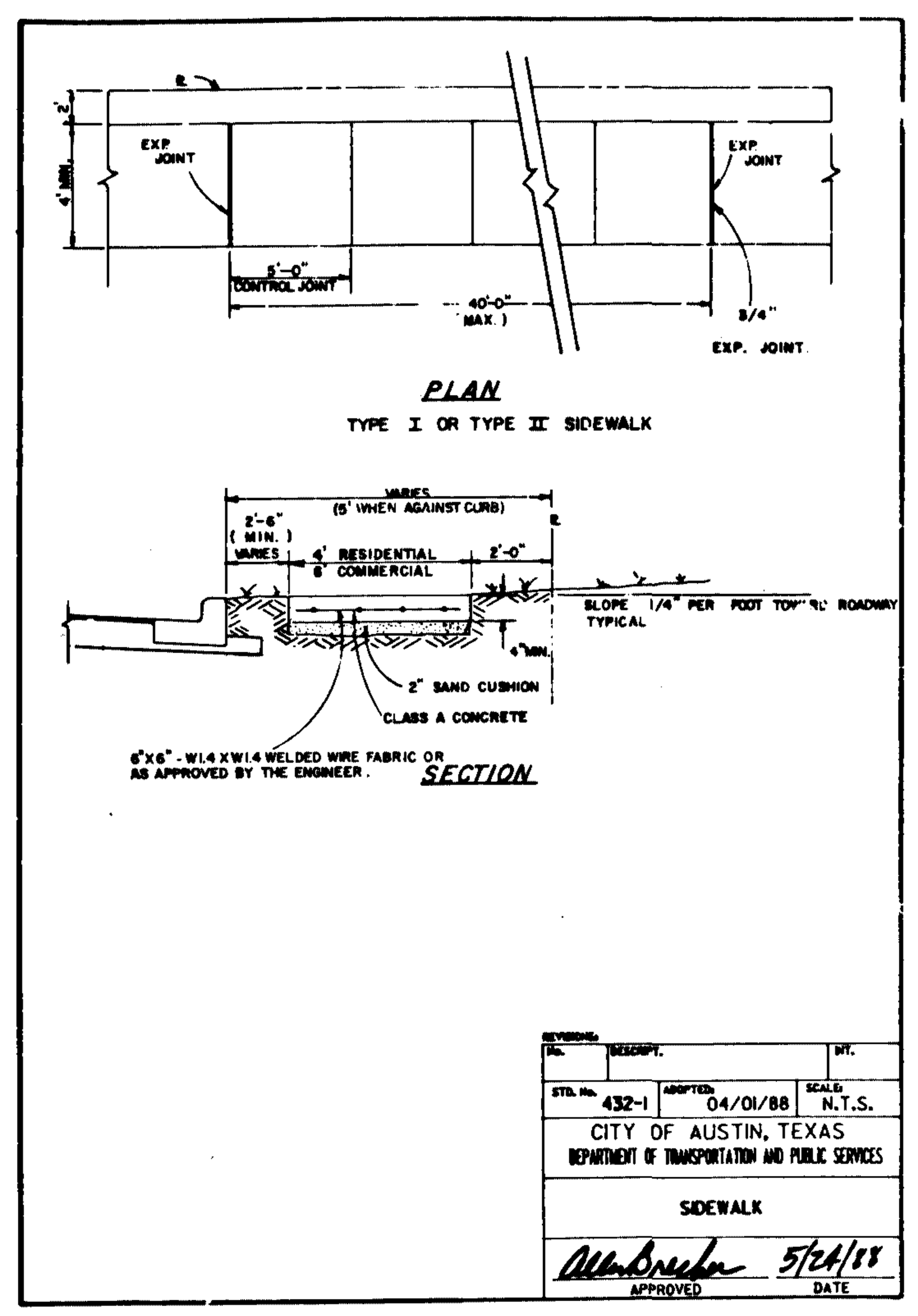
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHAICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TREATED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

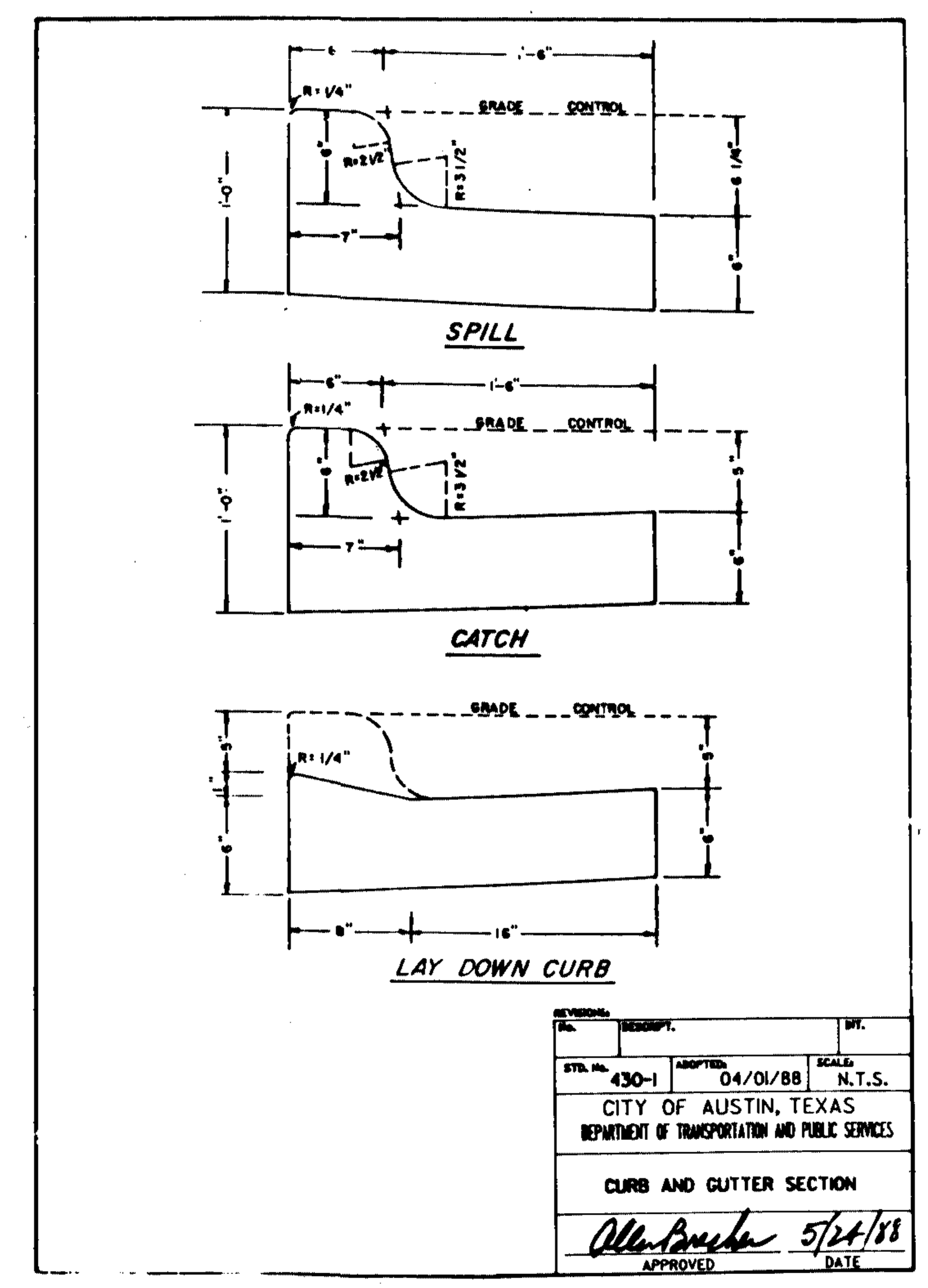
STANDARD SYMBOL SF

SOURCE: COA



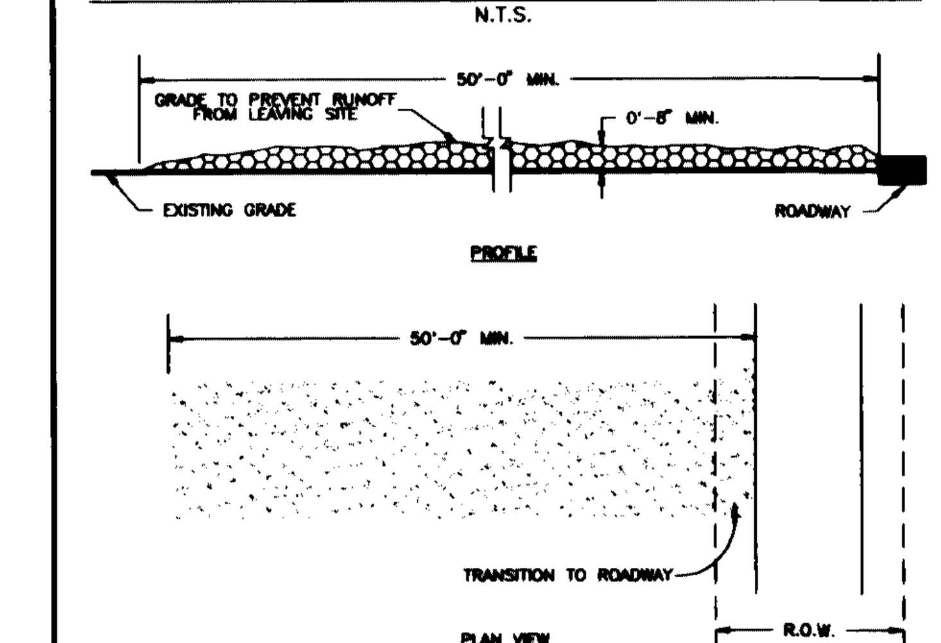






STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.

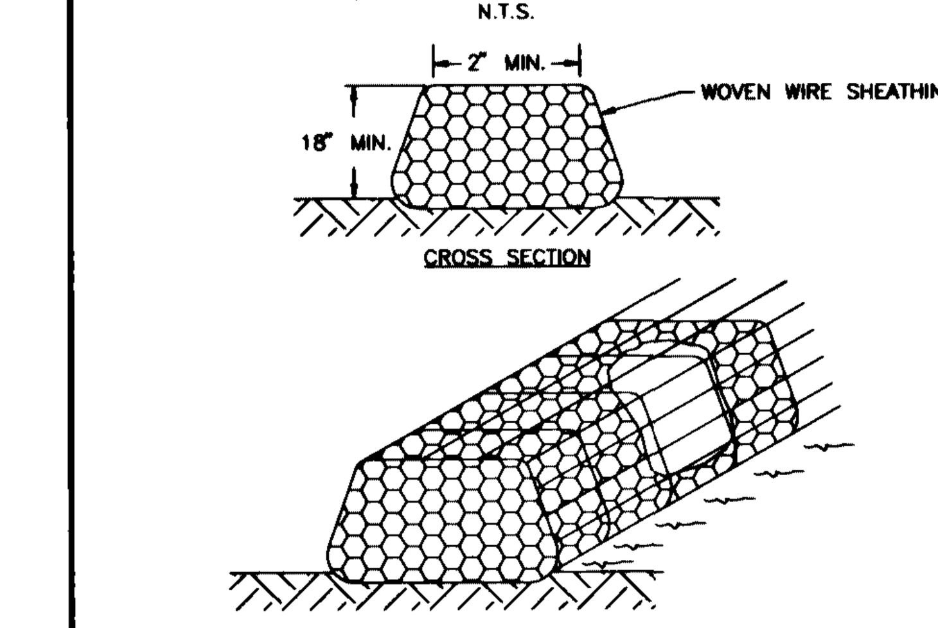


GENERAL NOTES:

1. STONE SIZE – 3 TO 5 INCH OPEN GRADED ROCK.
2. LENGTH – AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN 8 INCHES.
4. WIDTH – NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING – WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED WASHED, OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE – ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

SOURCE: COA

ROCK BERM DETAIL

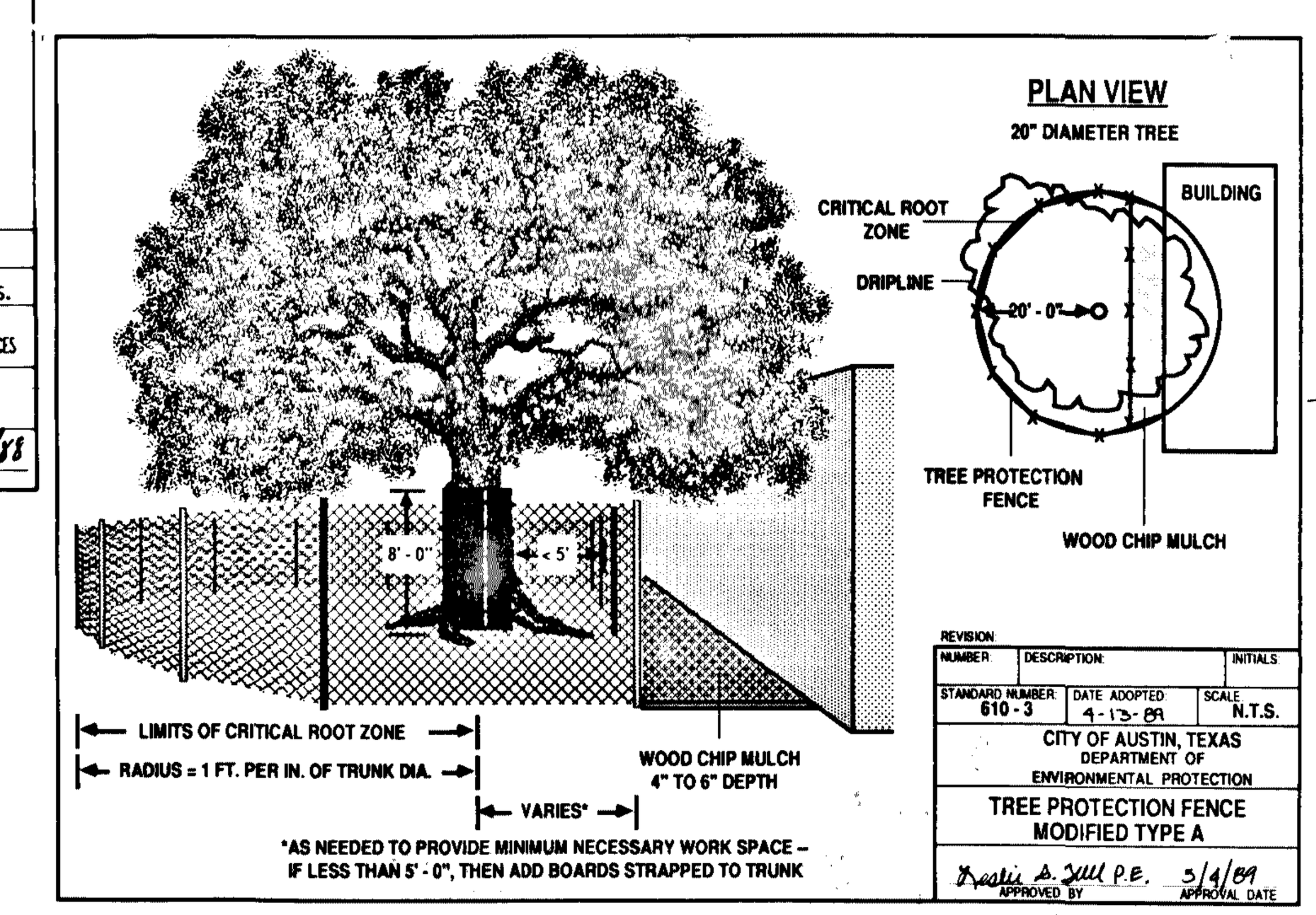


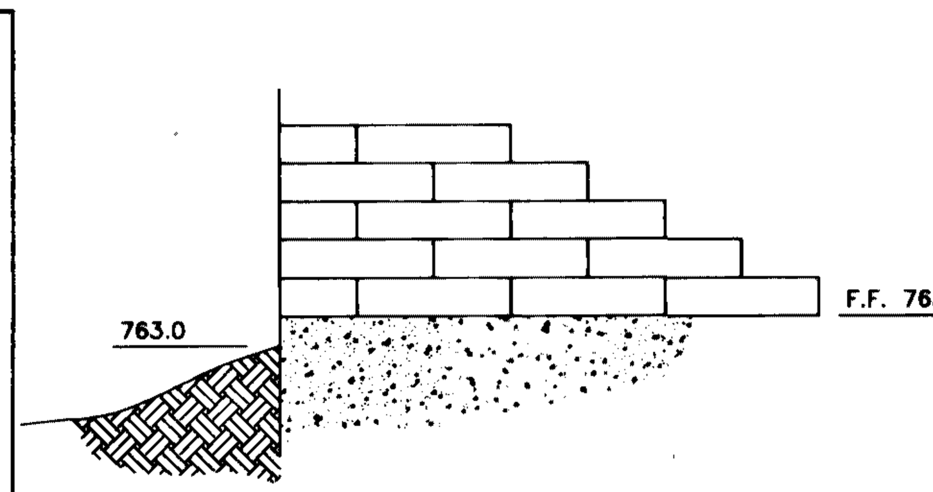
GENERAL NOTES

1. USE ONLY OPEN GRADED ROCK 4–8 INCH DIAMETER FOR STREAMFLOW CONDITIONS; USE OPEN GRADED ROCK 3–5 INCHES DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE–WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES A DEPTH EQUAL TO ONE–THIRD THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE AND IN A MANNER AS NOT TO CREATE A SILTATION PROBLEM.
5. DAILY INSPECTION SHALL BE MADE ON SEVERE SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 6 INCHES.
6. WHEN THE SITE IS COMPLETELY STABLIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

STANDARD SYMBOL RB

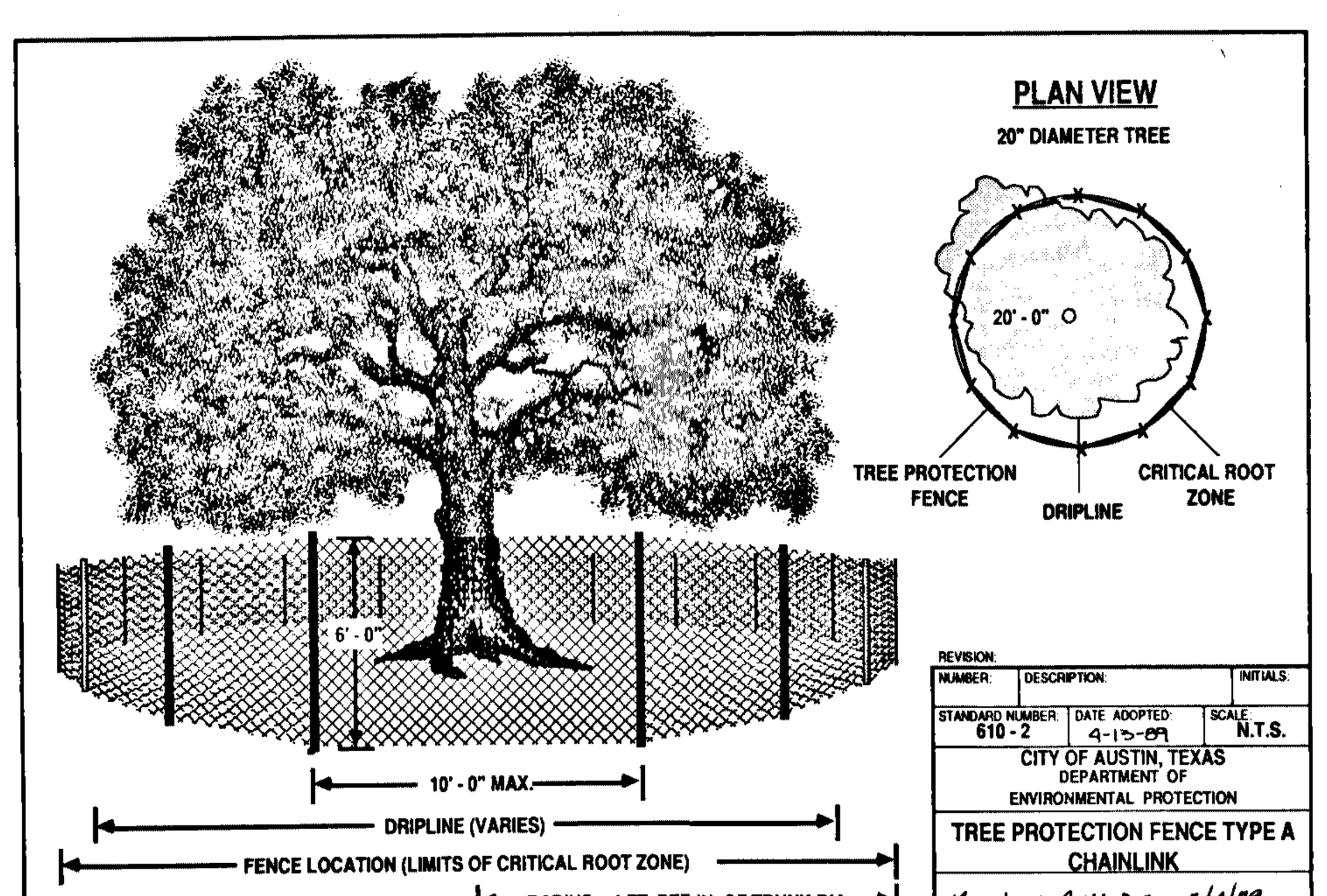
SOURCE: COA

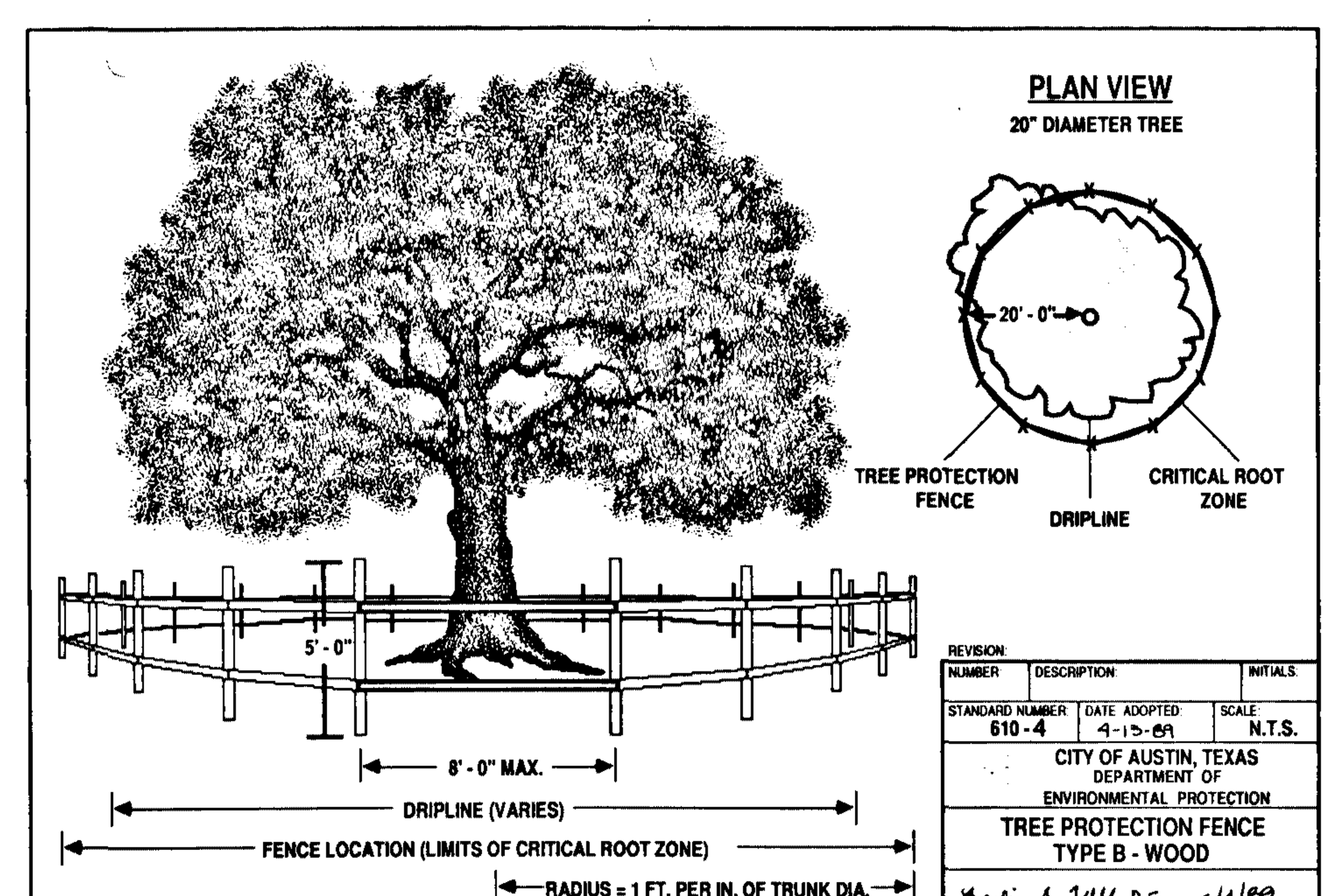




TYPICAL FINISHED GRADE AT BUILDING

N.T.S.





ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

REVIEWED BY:

DEPARTMENT OF PLANNING AND DEVELOPMENT — DATE 9/25/95

SITE PLAN RELEASE Sheet 8 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 660 of Chapter 13-1 of the Austin City Code.

Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ______ Correction 1 ______
Rev. 2 ______ Correction 2 ______
Rev. 3 ______ Correction 3 ______

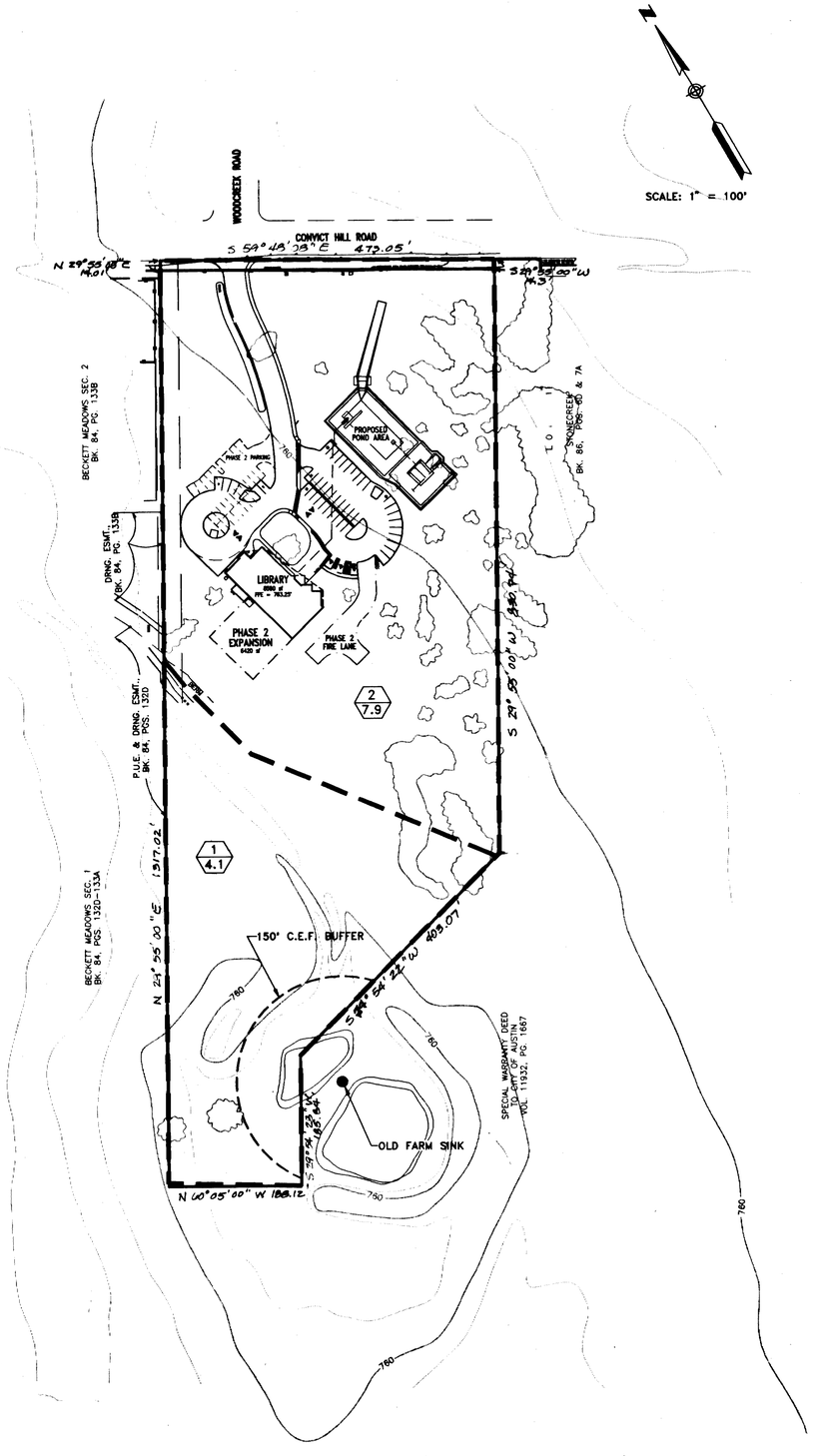
TACE
Tricia Altamirano Consulting Engineer, Inc.

OAK HILL LIBRARY
MISCELLANEOUS DETAILS

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 328-2203

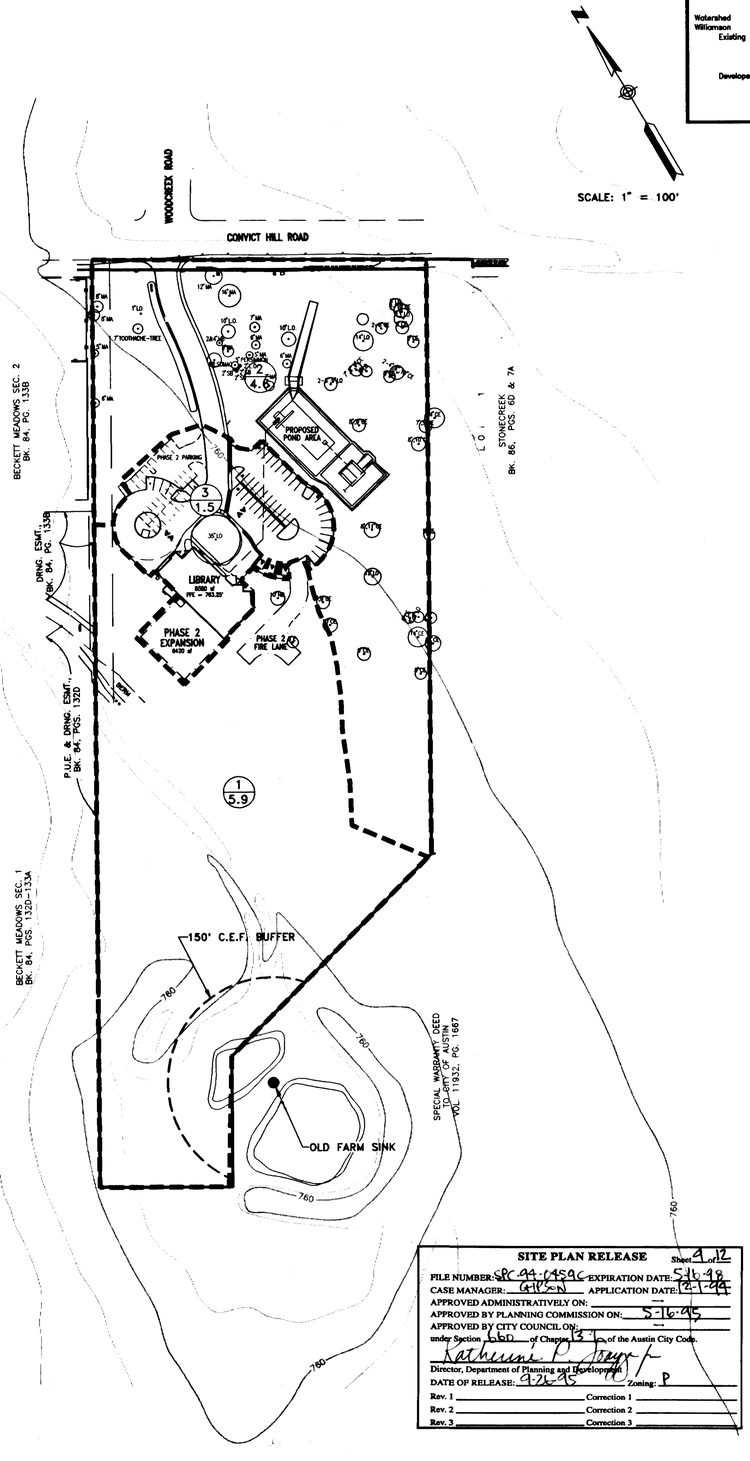
JOB NO.94-026.10	SCALE: AS NOTED	SHEET: C8 OF 12
DESIGNED BY:		
DRAWN BY: RWH		
C:\OAKLIBR\MISCDTLS.dwg		DATE: 5/1/95

SPC-94-0459C



EXISTING DRAINAGE AREAS

NOTE: SITE IS OUTSIDE LIMITS OF 100-YEAR FLOODPLAIN AS DEFINED BY FEMA PANEL #48453C0255 E



PROPOSED DRAINAGE AREAS

NOTE: SITE IS OUTSIDE LIMITS OF 100-YEAR FLOODPLAIN AS DEFINED BY FEMA PANEL #48453C0255 E

OAK HILL LIBRARY
STORMWATER RUNOFF

Watershed	Area	t(c)	Acres	C(2)	I(2)	Q(2)	C(5)	I(5)	Q(5)	C(10)	I(10)	Q(10)	C(25)	I(25)	Q(25)	C(100)	I(100)	Q(100)
Williamson																		
Existing	1	10.5	4.1	0.25	5.28	5.4	0.28	6.37	7.3	0.30	7.18	8.8	0.34	8.28	11.5	0.41	10.08	16.9
	2	27.5	7.9	0.25	3.41	6.7	0.28	4.25	9.4	0.30	4.83	11.5	0.34	5.70	15.3	0.41	7.04	22.8
	Total					12.1			16.7			20.3			26.8			39.7
Developed	1	10.5	5.9	0.25	5.28	7.8	0.28	6.37	10.5	0.30	7.18	12.7	0.34	8.28	18.8	0.41	10.08	24.4
	2	29.5	4.6	0.23	3.27	3.5	0.25	4.10	4.7	0.27	4.86	5.8	0.31	5.51	7.9	0.38	8.81	11.9
	3	5.0	1.5	0.70	6.48	6.8	0.75	7.88	8.6	0.78	8.64	10.1	0.83	9.84	12.2	0.92	11.88	16.4
	Total					18.1			23.9			28.6			36.7			52.7

OAK HILL LIBRARY
TIME OF CONCENTRATION

EXISTING CONDITION

Drng Area	Elev1	Elev2	L(ft)	S(ft/ft)	Flow Type	n	t(c)
1	762	760	200	0.010	Sheet	0.20	9.5
	760	757	100	0.030	SCF	0.10	1.0
							10.5
2	763	758	500	0.010	Sheet	0.20	23.8
	758	757	170	0.006	SCF	0.10	3.7
							27.5

DEVELOPED CONDITION

Drng Area	Elev1	Elev2	L(ft)	S(ft/ft)	Flow Type	n	t(c)
1	762	760	200	0.010	Sheet	0.20	9.5
	760	757	100	0.030	SCF	0.10	1.0
							10.5
2	763	759	350	0.011	Sheet	0.30	23.4
	759	757	300	0.007	SCF	0.10	8.1
							29.5
3	763	760	200	0.015	Sheet	0.02	0.8
	758.5	757	190	0.008	SCF	0.10	3.8
							4.3

9/25/95

CITY OF AUSTIN
PLANNING & DEVELOPMENT

LEGEND

- EXISTING DRAINAGE BOUNDARY
- 1 / 4.1 EXISTING DRAINAGE AREA W/ ACREAGE
- PROPOSED DRAINAGE BOUNDARY
- 1 / 5.9 PROPOSED DRAINAGE AREA W/ ACREAGE

TREE ABBREVIATION LEGEND

CE	CEDAR
LO	LIVE OAK
HB	HACKBERRY
E	ELM
MA	MULTI-ACACIA
SB	SOAPBERRY

SITE PLAN RELEASE Sheet 9 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIBSON APPLICATION DATE: 2-1-95
APPROVED ADMINISTRATIVELY ON: ___
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: ___
under Section 6.6D of Chapter 13-2 of the Austin City Code.
Kathrine P. Taylor
Director, Department of Planning and Development
DATE OF RELEASE: 9/25/95 Zoning: P
Rev. 1 ___ Correction 1 ___
Rev. 2 ___ Correction 2 ___
Rev. 3 ___ Correction 3 ___

PRELIMINARY NOT FOR CONSTRUCTION
STATE OF TEXAS
TRICIA S. TICHENOR ALTAMIRANO
62688
REGISTERED PROFESSIONAL ENGINEER
5/16/95

TACE
Tricia Altamirano Consulting Engineer, Inc.

OAK HILL LIBRARY
EXISTING & DEVELOPED CONDITIONS STORMWATER RUNOFF

1101 South Capital of Texas Highway, Building D, Suite 210, Austin, Texas 78746 (512) 327-9204

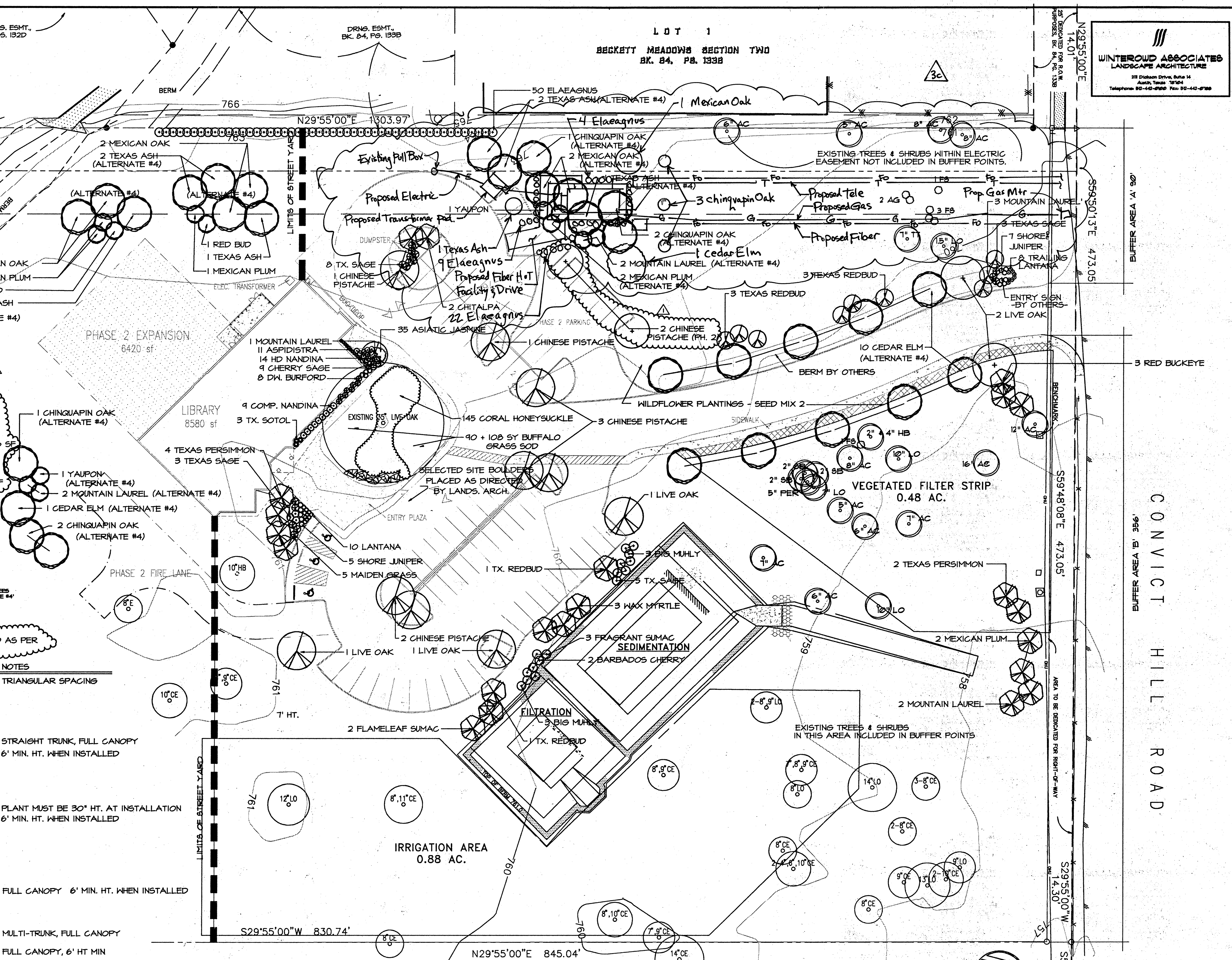
JOB NO. 94-026	SCALE: 1" = 100'	SHEET: C9 OF 12
DESIGNED BY: JFS		
DRAWN BY: RWH		
C:\OAKLIBR\OAK-DNG.dwg		DATE: 5/1/95

SPC-94-0459C

BECKETT MEADOWS SECTION ONE
BK. 84, PG. 132C-133A

EXISTING TREE ABREVIATION KEY

CE	CEDAR
LO	LIVE OAK
HB	HACKBERRY
AC	ACACIA / HUISACHE
FS	FRAGRANT SUMAC
TT	TOOTHACHE TREE
AG	AGARITO
SB	SOAPBERRY
PER	TEXAS PERSIMMON



LANDSCAPE CALCULATIONS

	REQUIRED	PROVIDED
TOTAL SITE AREA:		12 ACRES
TOTAL SITE AREA IN LANDSCAPED / MAINTAINED CONDITION:	15% MAX	9% (48,030 SF)
AREA OF STREET YARD (DOES NOT INCLUDE ROW OR EASEMENT):		214,667 S.F.
REQUIRED LANDSCAPED STREET YARD AREA: *incl. deductions for pavement, water quality ponds.	42,933 S.F.	150,833 S.F. PH. 2 = 146,268 SF
STREET YARD TREES:	72	111 PH. 2 = 112
AREA IN STREET YARD ISLANDS, MEDIANS, ETC.:	375 S.F.	3,142 S.F. PH. 2 = 3,125 SF
AREA IN NON-STREET YARD ISLANDS, MEDIANS, ETC.:	N / A	N / A
BUFFER POINTS:	446	484

Buffer Calculations: (Calculations the same for Phases 1 & 2)

West of Entry Drive	East of Entry Drive
1 EX. TREES @ 9 = 9	27 EX. TREES @ 9 = 243
1 EX. TREE @ 3 = 3	5 EX. TREES @ 6 = 30
6 EX. SHRUBS @ 3 = 18	1 EX SHRUB @ 3 = 3
1 LARGE TREE @ 6 = 6	5 SM. TREES @ 6 = 30
10 MED. SHRUBS @ 3 = 30	4 SM. TREES @ 3 = 12
8 SM. SHRUBS @ .5 = 4	1 LARGE TREE @ 6 = 6
9 SM. TREES @ 6 = 54	
TOTAL BUFFER POINTS = 124	TOTAL BUFFER POINTS = 324

STREET YARD TREES:
EXISTING TREES: 68 TOTAL
PROPOSED NEW TREES: PHASE 1: 43 PHASE 2: 1
TOTALS DO NOT INCLUDE TREES INDICATED TO BE 'ALTERNATE #4'

PLANT LIST

NOTE: ALL TREES TO BE A MINIMUM OF 6' HT. WHEN INSTALLED AS PER CITY OF AUSTIN LANDSCAPE ORDINANCE REQUIRMENTS

	COMMON / BOTANICAL NAME	SIZE	SPACING	NOTES
35	ASIATIC JASMINE / TRACHELOSPERMUM JASMINOIDES	4" POT	12" O.C.	TRIANGULAR SPACING
11	ASPIDISTRA / ASPIDISTRA ELATIOR	1 GAL	1.5' O.C.	
2	BARBADOS CHERRY / MALPIGHIA GLABRA	5 GAL	3.5' O.C.	
6	BIG MUHLY / MUHLENBERGII LINDHEIMERII	5 GAL	3' O.C.	
8	CHERRY SAGE / SALVIA GREGII	1 GAL	2' O.C.	
7	CHINESE PISTACHE / PISTACHIA CHINENSIS	2" CAL	AS SHOWN	STRAIGHT TRUNK, FULL CANOPY
2	CHITALPA / CHILOPSIS LINEARIS	15 GAL 1.5" CAL.	AS SHOWN	6' MIN. HT. WHEN INSTALLED
9	COMPACT NANDINA / NANDINA DOMESTICA 'COMPACTA'	5 GAL	3' O.C.	
145	CORAL HONEYSUCKLE / LONICERA SEMPERVIRENS	1 GAL	3' O.C.	
8	DWARF BURFORD HOLLY / ILLEX CORNUTA 'BURFORDII'	5 GAL	3' O.C.	
50	ELAEAGNUS / ELAEAGNUS EBBENGII	5 GAL	4' O.C.	PLANT MUST BE 30" HT. AT INSTALLATION
2	FLAMELEAF SUMAC / RHUS LANCEOLATA	15 GAL 1.5" CAL.	AS SHOWN	6' MIN. HT. WHEN INSTALLED
3	FRAGRANT SUMAC / RHUS ARROMATICA	5 GAL	4' O.C.	
14	HD NANDINA / NANDINA DOMESTICA 'HARBOR DWARF'	5 GAL	1.5' O.C.	
7	SHORE JUNIPER / JUNIPERUS CONFERTA	5 GAL	3' O.C.	
10	LANTANA / LANTANA CAMARA SP. (YELLOW, WHITE, MAJENTA)	1 GAL	2' O.C.	
5	LIVE OAK / QUERCUS VIRGINIANA 'HERITAGE'	2" CAL.	AS SHOWN	FULL CANOPY 6' MIN. HT. WHEN INSTALLED
5	MAIDEN GRASS / MISCANTHIS SINENSIS	5 GAL	3' O.C.	
2	MEXICAN PLUM / PRUNUS MEXICANA	6' HT. 1.5" CAL.	10' O.C.	
6	MOUNTAIN LAUREL / SOPHORA SECUNDIFLORA	6' HT 2" CAL.	AS SHOWN	MULTI-TRUNK, FULL CANOPY
3	RED BUCKEYE / AESCULUS PAVIA	30 GAL 2" CAL.	AS SHOWN	FULL CANOPY, 6' HT MIN
5	SHORE JUNIPER / JUNIPERUS CONFERTA	5 GAL.	3.5' O.C.	
6	TEXAS PERSIMMON / DIOSPORIS TEXANA	6' HT 1.5" CAL.	8' O.C.	MULTI-TRUNK, FULL CANOPY
8	TEXAS REDBUD / CERCIS CANADENSIS 'TEXENSIS'	7' HT 2" CAL.	AS SHOWN	
19	TEXAS SAGE / LUECOPHLLUM FRUTESCENS 'GREEN CLOUD'	5 GAL	3' O.C.	
3	TEXAS SOTOL / DASYLIRION TEXANUM	5 GAL	2.5' O.C.	
8	TRAILING LANTANA / LANTANA MONTEVIDENSIS	1 GAL	2' O.C.	
3	WAX MYRTLE / MYRICA CERIFERA	15 GAL 1.5" CAL.	8' O.C.	TREE FORM, FULL BRANCHED 6' MIN. HT. WHEN INSTALLED

ALTERNATE TREE PLANTING LIST

11	CEDAR ELM / ULMUS CRASSIFOLIA	2" CAL.	30' O.C.	CONTAINER GROWN
6	CHINQUAPIN OAK / QUERCUS MUHLENBERGII	1.5" CAL.	30' O.D.	
6	MEXICAN OAK / QUERCUS POLYMORPHA	2" CAL.	30' O.C.	
5	MEXICAN PLUM / PRUNUS MEXICANA	30 GAL.	10' O.C.	2" CAL.
4	MOUNTAIN LAUREL / SOPHORA SECUNDIFLORA	6' HT.	10' O.C.	
7	RED BUD / CERCIS TEXENSIS	2" CAL.	10' O.C.	MULTI-TRUNK, LOCALLY GROWN
7	TEXAS ASH / FRAXINUS TEXENSIS	2" CAL.	30' O.C.	LOCALLY GROWN, CONTAINER
2	YAUPON / ILLEX VOMITORIA	2" CAL.	10' O.C.	MULTI-TRUNK, FEMALE

WILDFLOWER MIX SHALL BE COMPRISED OF THE FOLLOWING SPECIES:
GRASSES:
BUFFALO GRASS, LITTLE BLUESTEM, BLUE GRAMMA, AND SIDEOATS GRAMMA GRASSES.
WILDFLOWERS
BLACKEYED SUSAN, COREOPSIS, GAYFEATHER, HYMENOZYS, PURPLE CONEFLOWER, YARROW, AND TEXAS BLUEBONNET.

TREES IDENTIFIED W/ THIS SYMBOL ARE POTENTIAL GRANT-FUNDED TREES, ALTERNATE #4
THESE TREES ARE NOT INCLUDED IN LANDSCAPE CALCULATIONS.

LOT 1
STONECREEK
BK. 88, PGS. 80 & 7A

CERTIFICATION

I, L. DIANE WINTEROWD, A PROFESSIONAL LANDSCAPE ARCHITECT, DO HEREBY CERTIFY THAT ALL INFORMATION SHOWN IS TRUE AND ACCURATE AND THAT THIS PLAN SATISFIES THE WRITTEN REQUIREMENTS OF THE LANDSCAPE REGULATIONS, CHAPTER 13-7, ARTICLE III, OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE, AS AMENDED BY ORDINANCE 940915-H.

[signature] 8/28/95 above
SIGNATURE DATE SEAL

SITE PLAN RELEASE Sheet 10 of 12
FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98 5-16-2008
CASE MANAGER: GIBSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON:
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON:
under Section 160 of Chapter 13-1 of the Austin City Code.
[signature]
Director, Department of Planning & Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 Correction 1 3C 2-18-15
Rev. 2 Correction 2
Rev. 3 Correction 3

WINTEROWD ASSOCIATES
LANDSCAPE ARCHITECTURE
Austin, Texas

ARCHITECTURE + PLUS
1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-3424
FAX (512) 328-9384

STATE OF TEXAS
L. DIANE WINTEROWD
1157
REGISTERED LANDSCAPE ARCHITECT
9/28/95

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

LANDSCAPE PLAN

ISSUE DATE: APRIL 24, 1995
DRAWN BY: DATE:
CHECKED BY: DATE:

REVISIONS

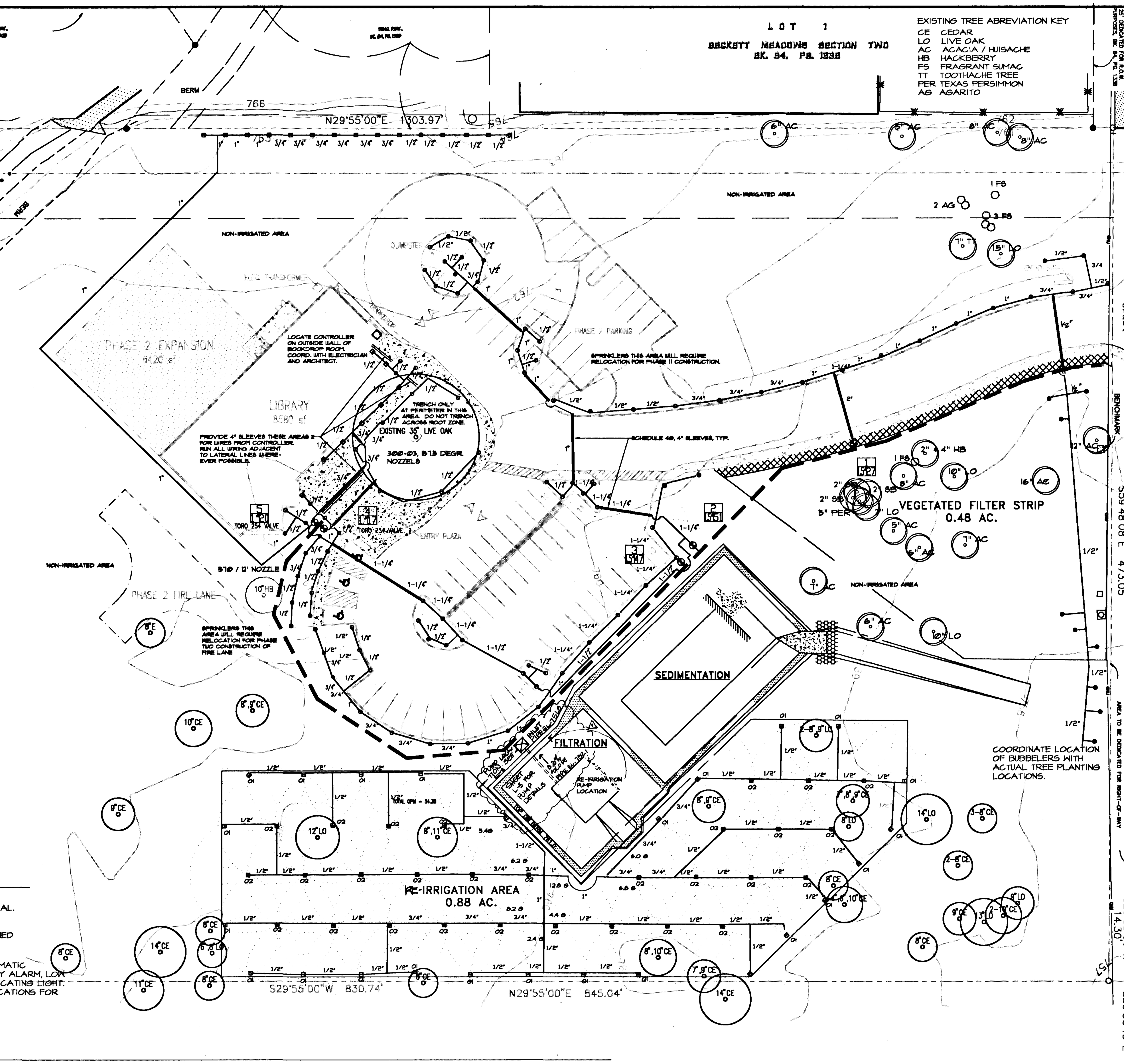
NO.	DATE	REMARKS
1	7/13/95	ADDED PHASE 2 TREES, ADDED NOTE REQU. ALL TREES MIN. 6' INSTALLED HEIGHT. RVSD. CALCS.

SHEET L1 OF 3

10 of 12

PROJECT NUMBER: 942402

SPC-94-0459C



LEGEND

- 12' SPRAYS, TORO 570 OR EQUAL
- STREAM ROTORS, TORO 300 SERIES, NOZZEL AS SHOWN, OR EQ.
- END STRIP SPRAY, TORO 570 OR EQ.
- SIDE STRIP SPRAY, TORO 570 OR EQ.
- TREE BUBBLER, TORO FB-.50-PC OR EQ.
- HUNTER PGP ROTORS, #1 NOZZEL PART CIRCLES #2 NOZZEL FOR FULL CIRCLES (OR EQ.) - RE-IRRIGATION AREA
- REMOTE CONTROL VALVE
- QUICK COUPLING VALVE
- DOUBLE CHECK BACKFLOW PREVENTER
- FLUSH VALVE
- GATE VALVE
- VALVE ID / NUMBER/SIZE/GALLONS
- SLEEVE
- MAIN LINE
- LATERAL LINE
- TORO VISION II 6 STATION CONTROLLER, OR EQ. W/ WATER CONSERVATION CONTROL, DUAL PROGRAMING, W/ RAIN SENSOR.

RE-IRRIGATION AREA DATA

TOTAL VOLUME OF WATER TO APPLY (REQUIRED): 12,031 CF / 90,112 GAL.

APPLICATION RATE AS DESIGNED: 37.4 GPM / 2,244 GPHour

HOURS REQUIRED TO EMPTY POND OF REQUIRED VOLUME: 40.16

MAXIMUM RUN CYCLE: 9 HOURS (20,196 GAL.) X 5 = 100,980 GAL.

MINIMUM OFF CYCLE BETWEEN RUNS: 6.75 HOURS

TOTAL POND EMPTY WITHIN REQUIRED 72 HOURS.

AVERAGE PRECIPITATION RATE = .089 IN/HOUR

INFORMATION PER NOZZEL TYPE:

01 = 29' RADIUS THROW
+/- 30' SPACING
.6 GPM
PRECIPITATION RATE .08 IN/HR
USED FOR 180 & 135 DEGREE ARCS

02 = 30' RADIUS THROW
+/- 30' SPACING
.8 GPM
PRECIPITATION RATE .10 IN/HR
USED FOR 360 DEGREE ARCS

FORMULA FOR CALCULATING PRECIPITATION RATE (TRIANGULAR SPACING)

$$\frac{\text{(GPM OF FULL HEAD)* X 96.25}}{\text{HEAD SPACING SQUARED X .866}} = \text{INCHES PER HOUR}$$

* SUBSTITUTE GPM OF FULL HEAD DIVIDED BY PART CIRCLES AS REQUIRED

SEE SHEET L-3 FOR PUMP AND IRRIGATION DETAILS

PUMP INFORMATION

PUMP TO BE A SKID-N-PUMP ASSEMBLY AS PROVIDED BY GREENSCAPE PUMP SERVICES, INC. OF P.O. BOX 934, COPPELL TEXAS, 75019, 214-393-0346, OR EQUAL.

PUMP ASSEMBLY TO INCLUDE 2 3HP SUBMERSIBLE TURBINE PUMPS AND MOTORS CAPABLE OF PROVIDING 34 GPM AT 80 PSI. PUMP ASSEMBLY TO BE CONTAINED WITHIN A STAINLESS STEEL SKID AND CAGE ASSEMBLY.

CONTROL PANEL TO INCLUDE INDIVIDUAL MOTOR STARTERS AND RELAYS, AUTOMATIC OR MANUAL OVERIDE CAPABILITIES, LIGHTNING AND SURGE PROTECTION, SAFETY ALARM, LOW LEVEL FLOAT SWITCH W/ TIME DELAY START AND 0-100 HR. OPERATION W/ INDICATING LIGHT. PLUS ALL OTHER APPERTENANCES AND EQUIPMENT AS SPECIFIED. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION NOTES

1. ADJUSTABLE FLOW CONTROLS SHALL BE REQUIRED ON CIRCUIT REMOTE CONTROL VALVES AND PRESSURE REGULATION COMPONENTS SHALL BE REQUIRED WHERE STATIC PRESSURE EXCEEDS MANUFACTURER'S RECOMMENDED OPERATING RANGE.

2. VALVE AND CIRCUITES SHALL BE SEPARATED BASED ON WATER USE, SO THAT TURF AREAS CAN BE WATERED SEPARATELY FROM SHRUB AND GROUND COVER AREAS.

3. SPRINKLER HEADS SHALL HAVE MATCHED PRECIPITATION RATES WITHIN EACH CONTROL VALVE CIRCUIT.

4. SERVICEABLE CHECK VALVES SHALL BE REQUIRED WHERE ELEVATION DIFFERENTIAL MAY CAUSE LOW HEAD DRAINAGE, ADJACENT TO PAVING AREAS.

5. SPRINKLER HEAD SPACING SHALL BE DESIGNED FOR HEAD TO HEAD COVERAGE OR HEADS SHALL BE SPACED AS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUSTED FOR PREVAILING WINDS. THE SYSTEM SHALL BE DESIGNED FOR MINIMUM RUN-OFF AND MINIMUM OVERSPRAY ONTO NON-IRRIGATED AREAS, SUCH AS PAVING OR STRUCTURES.

6. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A CONTROLLER CAPABLE OF DUAL OR MULTIPLE PROGRAMMING. CONTROLLERS SHALL HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM, INCLUDING THE CAPABILITY OF BEING SET TO WATER EVERY FIVE DAYS. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A RAIN SENSOR SHUT-OFF DEVICE.

7. IRRIGATION CONSTRUCTION PLANS SHALL INCLUDE A WATER BUDGET. A LAMINATED COPY OF THE WATER BUDGET SHALL BE PERMANENTLY INSTALLED INSIDE THE IRRIGATION CONTROLLER DOOR. WATER BUDGET SHALL INCLUDE, A: ESTIMATED MONTHLY WATER USE IN GALLONS PER APPLICATION, AND THE AREA S.F. IRRIGATED; B: PRECIPITATION RATES FOR EACH VALVE CIRCUIT; C: MONTHLY IRRIGATION SCHEDULE FOR THE PLANT ESTABLISHMENT PERIOD (FIRST THREE MONTHS) AND RECOMMENDED YEARLY WATERING SCHEDULE, INCLUDING SEASONAL ADJUSTMENTS; AND D: LOCATION OF EMERGENCY IRRIGATION SYSTEM SHUT-OFF VALVE.

8. THIS LANDSCAPE IRRIGATION PLAN HAS NOT BEEN REVIEWED OR APPROVED BY THE CITY OF AUSTIN. COMPLIANCE WITH IRRIGATION REQUIREMENTS WILL BE DETERMINED AT THE TIME OF INSPECTION. THIS PLAN IS PRESENTED FOR THE PURPOSE OF COMPLYING WITH THE WATER QUALITY REGULATIONS OF LDC, CHAPTER 13-7-ARTICLE I AS AMENDED BY ORDINANCE #920903-1?.

S29°55'00"W 844.85'

LOT 1
STONECREEK
BK. 88, PGS. 80 & 7A

SITE PLAN RELEASE Sheet 11 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: ____
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: ____
under Section 660 of Chapter 13-1 of the Austin City Code.
[signature]
Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ____ Correction 1 ____
Rev. 2 ____ Correction 2 ____
Rev. 3 ____ Correction 3 ____

NORTH
SCALE: 1"=30'

WINTEROWD ASSOCIATES
LANDSCAPE ARCHITECTURE

STATE OF TEXAS
L. DIANE WINTEROWD
1197
REGISTERED LANDSCAPE ARCHITECT
4/3/95

ARCHITECTURE + PLUS
1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-3424
FAX (512) 328-8384

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

IRRIGATION PLAN

ISSUE DATE: MAY 4, 1995

DRAWN BY: DATE:

CHECKED BY: DATE:

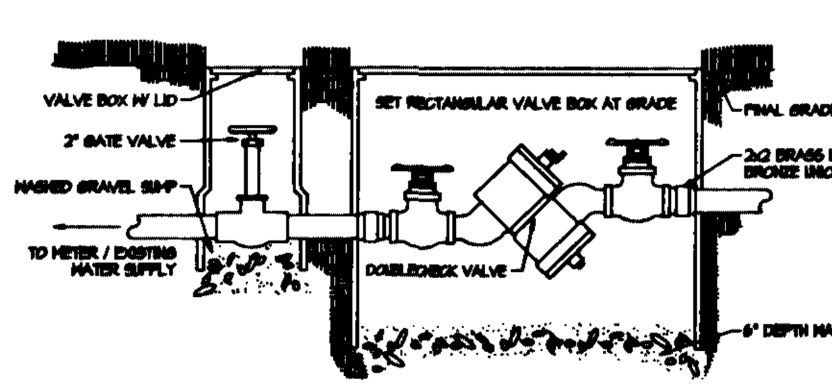
REVISIONS

NO.	DATE	REMARKS
1	9/13/95	Pump Changes

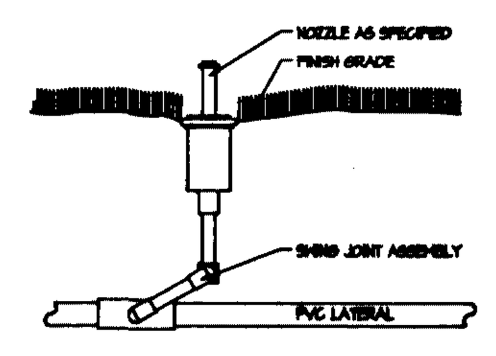
SHEET 11 OF 12

PROJECT NUMBER: 942402

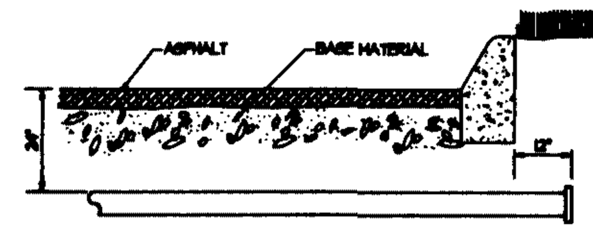
SPC-94-0459C



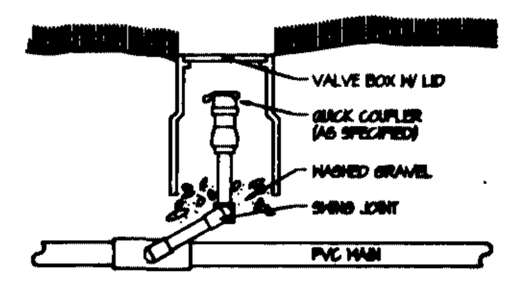
DOUBLECHECK BACKFLOW PREVENTER



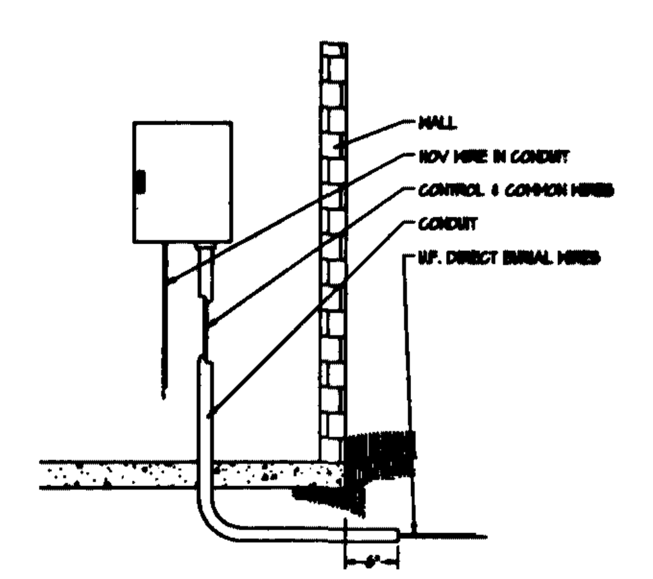
POP-UP SPRAY



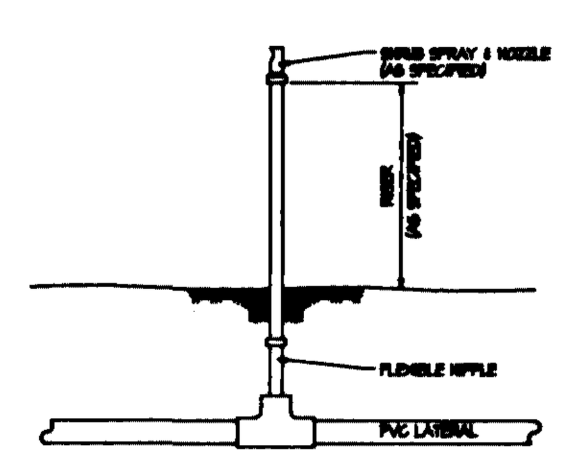
PVC SLEEVE INSTALLATION



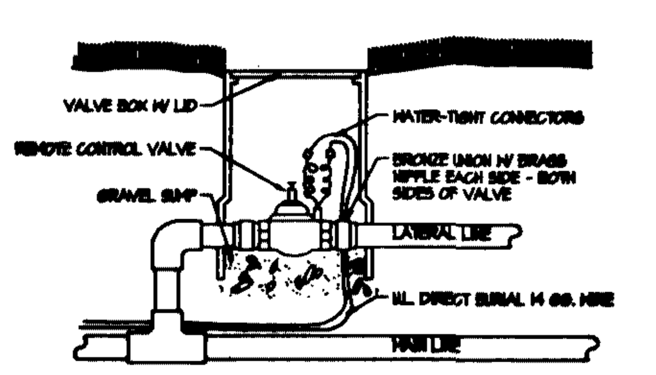
QUICK COUPLER



WALL-MOUNTED CONTROLLER



RISER INSTALLATION



REMOTE CONTROL VALVE

LANDSCAPE NOTES

1. INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, AREAS AND DISTANCES ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO BIDDING. DISCREPANCIES SHALL BE REPOROTED TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.

2. THE CONTRACTOR IS TO THOROUGHLY FAMILIARIZE HIM/HERSELF WITH THE PLANS AND SPECIFICATIONS AND WITH THE SITE PRIOR TO BIDDING. FAILURE TO DO SO WILL NOT REDUCE THE CONTRACTORS OBLIGATION TO PERFORM THE WORK AS DESCRIBED FOR THE PRICE BID.

3. NO SUBSTITUTIONS OF PLANT MATERIAL LOCATIONS, SPECIES OR SIZE WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT. PLANT MATERIALS WHICH MAY BE NOTED AS 'REPLACEMENT' ARE DONE SO AS A REQUIREMENT OF THE CITY OF AUSTIN, AND MAY NOT BE MODIFIED FROM THE SPECIFICATIONS.

4. THE LANDSCAPE INSTALLER SHALL COORDINATE WITH THE IRRIGATION INSTALLER FOR TREE LOCATIONS AND FINAL ADJUSTMENTS OF SPRAY LOCATIONS AND COVERAGE.

5. AREAS TO BE SEEDED OR SODDED ARE TO RECEIVE 3" OF TOPSOIL. SITE STOCKPILED TOPSOIL MAY BE USED IF IT HAS BEEN DEEMED ACCEPTABLE IN QUALITY. TOPSOIL SHALL BE DARK BROWN OR BLACK IN COLOR, WITHOUT STONES, DEBRIS OR OTHER OBJECTIONABLE MATERIAL, WITHOUT CLODS, CLUMPS OR STONES LARGER THAN 1". TOPSOIL SOURCES MUST BE FREE FROM JOHNSON GRASS, NUTSEDGE OR OTHER 'WEEDY' MATERIALS.

6. SOIL PREPARATION:
   - A. REFER TO THE LANDSCAPE SPECIFICATIONS FOR MORE INFORMATION.
   - B. ALL TREE AND SHRUB PITS SHALL BE DUG TWO TIMES THE DIAMETER OF THE ROOTBALL OR CONTAINER. PITS SHALL BE GENERALLY CIRCULAR, WITH SIDES SCARIFIED AND ROUGHENED. BOTTOMS OF PITS SHALL BE FIRM BUT NOT OVERLY COMPACTED.
   - C. BACKFILL FOR TREES AND SHRUBS SHALL BE AS SPECIFIED. SOIL FROM PIT EXCAVATIONS MAY BE USED IF INDICATED, AND IF IT IS FREE FROM DEBRIS, CLAY, STONES, OR OTHER DELETERIOUS MATERIALS.
   - D. GROUNDCOVER BEDS SHALL BE EXCAVATED A TOTAL OF 8" AND BACKFILLED WITH THE SPECIFIED SOIL MIXTURE, WHICH SHALL BE TILLED IN AND MIXED WITH EXISTING SOIL.

7. MULCH ALL PLANTINGS AS FOLLOWS:
   - A. TREES SHALL RECEIVE A MINIMUM OF 4" MULCH TOPDRESSING CONTAINED WITHIN A 5" DEEP SOIL SAUCER.
   - B. SHRUBS SHALL RECEIVE A MINIMUM OF 3" MULCH TOPDRESSING. MULCH SHALL BE CONTINUOUS WITHIN SHRUB BEDS, OR CONTAINED BY A 4" SOIL SAUCER FOR INDIVIDUALLY LOCATED SHRUBS.
   - C. GROUNDCOVER AND SEASONAL COLOR SHALL RECEIVE 3" OF MULCH TOPDRESSING, CONTINUOUSLY APPLIED WITHIN EACH BED AREA. IF NECESSARY, PULL MULCH AWAY FROM THE BASE AND LOWER LEAVES OF PLANTS TO AVOID SMOTHERING AND TO REDUCE ROOT GROWTH WITHIN THE MULCH LAYER.
   - D. EDGE ALL CONTINUOUSLY MULCHED SHRUB AND/OR GROUNDCOVER BEDS WITH STEEL EDING.

8. STEEL EDGING SHALL BE 1/4" x 5" STEEL WITH 12" STAKES, AS MANUFACTURED BY RYERSON STEEL, OR EQUAL.

9. STEEL SHALL BE INSTALLED WITH FINAL TOP ELEVATIONS 1" ABOVE ADJACENT FINAL SOIL ELEVATIONS, OR EVEN WITH ADJACENT WALKS, CURBS OR OTHER PAVEMENT. DO NOT PLACE STEEL BETWEEN BED AREAS AND CURBS OR WALKS..

10. CITY OF AUSTIN PLAN REQUIRMENTS:
    - A. ALL AREAS OF EXISTING VEGETATION BEYOND THE LIMITS OF CONSTRUCTION ARE TO BE LEFT UNDISTURBED.
    - B. ALL LANDSCAPED AREAS SHALL BE PROTECTED BY A 6" CURB OR WHEEL STOPS.
    - C. PROPOSED LANDSCAPING WITHIN THE LIMITS OF CONSTRUCTION IS TO BE IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM. REFER TO THE IRRIGATION PLAN FOR LOCATIONS OF IRRIGATION EQUIPMENT. (1)
    - D. ALL MECHANICAL EQUIPMENT, STORAGE AREAS, DETENTION AND FILTRATION PONDS AND DEVICES, AND REFUSE COLLECTION AREAS SHALL BE SCREENED FROM OFFSITE VIEWS WITH PLANT MATERIALS OR BY PRIVACY-TYPE FENCES.

IRRIGATION NOTES

1. ALL MAINLINE, LATERAL LINES AND CONTROL WIRING SHALL BE INSTALLED IN SLEEVES UNDER DRIVING OR SIDEWALK PAVING. USE SEPARATEA SLEEVES FOR PIPES AND WIRES. SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPES THEY ARE TO CONVEY.
2. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWING, BUT MAY BE INSTALLED LARGER THAN SPECIFIED AT THE CONTRACTOR'S OPTION AND UPON APPROVAL OF THE IRRIGATION DESIGNER. NO USED OR DAMAGED PIPE MAY BE USED.
3. ALL BACKFLOW PREVENTION DEVICES AND SYSTEM INSTALLATION SHALL BE AS PER LOCAL CODES. THE CONTRACTO WILL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND BE PRESENT FOR ALL REQUIRED INSPECTIONS.
4. FINAL LOCATIONS OF THE CONTROLLER AND BACKFLOW PREVENTER SHALL BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
5. PIPING AND HEAD LAYOUTS ARE SHOWN SCHEMATICALLY, AND MAY HAVE BEEN GRAPHICALLY ADJUSTED FOR CLARITY. INSTALL ALL HEADS 6" - 12" FROM PAVEMENT. INSTALL PIPING IN COMMON TRENCHES WHEREVER POSSIBLE, AND IMMEDIATELY BEHIND CURBS OR PAVEMENT. DO NOT CUT TRENCHES ACROSS THE ROOT ZONES OF EXISTING TREES - HAND TRENCH AROUND ROOT ZONES.
6. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULLARY TO FINISH GRADES. HEADS WITHIN 4' OF PAVEMENT OR CURBS SHALL BE INSTALLED ON SWING JOINTS OR FLEX-PIPE. WHERE PLANTINGS INTERFERE WITH SPRAY OPERATION, INSTALL HEADS ON 12" POP-UP BODIES OR ON FIXED RISERS IF ADJACENT TO A PERMANENT VERTICAL ELEMENT, SUCH AS A BUILDING WALL.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIM/HERSELF WITH THE SITE AND THE PROPOSED AND EXISTING CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR FROM INSTALLING THE SYSTEM AS DESIGNED FOR THE PRICE BID.
8. ITEMS, CONSTRUCTION, METHODS AND EQUIPMENT NOT SPECIFICALLY CALLED OUT BUT NECESSARY FOR INSTALLATION OF A FULLY AND PROPERLY FUNCTIONING SYSTEM SHALL BE INTEGRAL TO THE BID PRICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY OMMISIONS PRIOR TO SUBMITTING A FIRM PRICE, AND TO INCLUDE ALL ITEMS IN THE FINAL BID.
9. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS THAT UNKNOWN OBSTACLES, GRADE OR AREA DIFFERENCES EXIST WHICH MAY NOT HAVE BEEN CONSIDERED OR KNOWN TO THE DESIGNER. SUCH DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR OWNER'S REPRESENTATIVE FOR RESOLUTION. IF NOT, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY CHANGES MADE WHICH WERE NOT APPROVED.
10. INSTALL CHECK VALVES WHERE SLOPES EXCEED 4:1, WHERE POST-VALVE DRAINING OF THE IRRIGATION HEAD OCCURS, OR WHERE DIRECTED BY THE OWNER.
11. THIS SYSTEM SHALL REQUIRE A MINIMUM OF 66 GPM AND 65 PSI. CONTRACTOR IS TO VERIFY THAT ADEQUATE SUPPLY IS AVAILABLE PRIOR TO INSTALLATION, AND TO REPORT INADEQUACIES TO THE OWNER. WHERE PSI EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE SHALL BE INSTALLED.
12. ALL VALVES AND WIRE SPLICES SHALL BE INSTALLED WITHIN 10" MIN. VALVE BOXES WITH GRAVEL SUMPS.
13. THE CONTRACTOR SHALL BE A TEXAS REGISTERED LICENSED IRRIGATOR IN GOOD STANDING, WITH AT LEAST 3 YEARS INSTALLATION EXPERIENCE.
14. ALL CONTROL WIRES TO BE 14 AWG SOLID COPPER INSULATED DIRECT BURIAL WIRE, UF UL LISTED.
15. COORDINATION WITH THE LANDSCAPE INSTALLATION AND INSTALLATION OF SLEEVES WITH THE GENERAL CONTRACTOR OR OTHER SUBS SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
16. ALL EQUIPMENT SHALL BE NEW AND UNDAMAGED.
17. INSTALL MAIN LINES A MINIMUM OF 15" UNDER FINISH GRADE, AND LATERAL LINES 12" BELOW FINISH GRADE. WHERE SOLID ROCK IS ENCOUNTERED IN THE TRENCHES, INSTALL PIPING ON A 2" MIN. SAND BED. ALL LATERAL LINE PIPING MAY BE CLASS 200. ALL MAIN LINES AND SLEEVES SHALL BE SCHEDULE 40.
18. THE IRRIGATION SYSTEM SHALL CONFORM TO ALL CITY OF AUSTIN CODES AND REQUIREMENTS AS PRESENTED BY THE DEPARTMENT OF ENVIRONMENTAL AND CONSERVATION SERVICES. OVERSPRAY OF HEADS ONTO PAVEMENT SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE. ISLANDS NARROWER THAN 8' WIDTH SHALL BE INSTALLED WITH DRIP OR OTHER NON-SPRAY IRRIGATION TYPES.

LANDSCAPE MAINTENANCE NOTES:

THE OWNER SHALL BE RESPONSIBLE FOR:

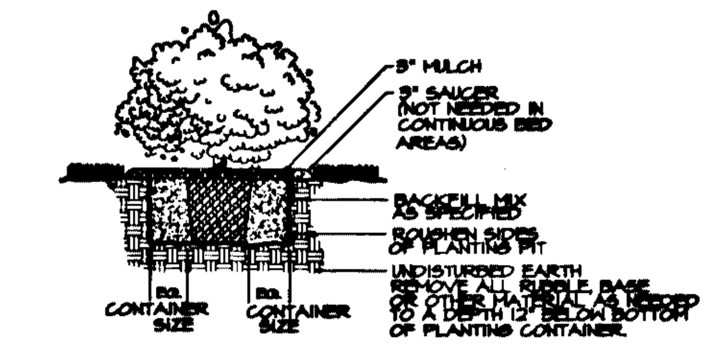
1. THE REGULAR MAINENANCE OF ALL REQUIRED LANDSCAPE AREAS AND PLANT MATERIALS TO MAINTAIN A VIGOROUS AND HEALTHY CONDITION, FREE FROM DISEASES, PESTS, WEEDS, AND LITTER. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZATION, PRUNING, MOWING, EDGING, MULCHING OR OTHER NEEDED MAINTENANCE IN ACCORDANCE WITH GENERALLY ACCEPTED HORTICULTURAL PRACTICES.

2. THE REPAIR OR REPLACEMENT OF REQUIRED LANDSCAPE STRUCTURES (WALLS, FENCES, ETC.) TO A STRUCTURALLY SOUND CONDITION.

3. THE REGULAR MAINTENANCE, REPAIR, OR REPLACEMENT, WHERE NECESSARY OF ANY SCREENING OR BUFFERING REQUIRED BY THE LAND DEVELOPMENT CODE.

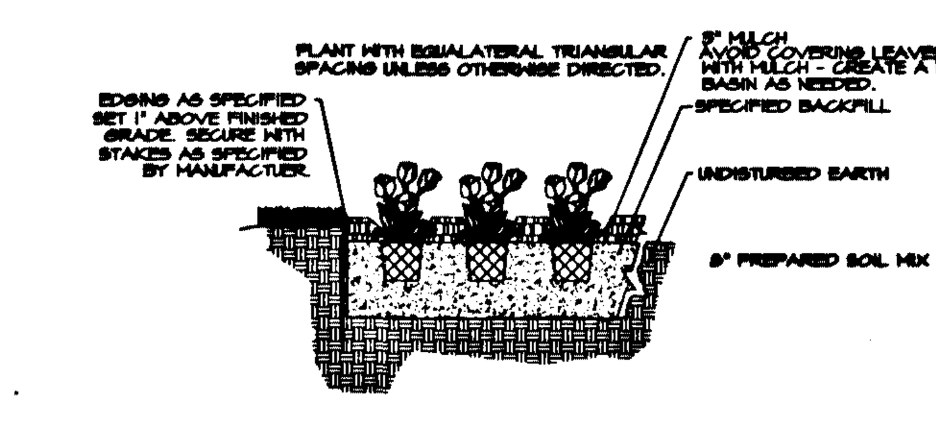
REQUIRED PLANT MATERIALS, IF DEAD, DISEASED OR SEVERELY DAMAGED, SHALL BE REMOVED BY THE OWNER AS SOON AS POSSIBLE, BUT NO LATER THAN 60 DAYS AFTER NOTIFICATION. ALL SUCH PLANTS SHALL BE REPLACED WITHIN SIX MONTHS OF NOTIFICATION OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES FIRST.

REPLACEMENT PLANTS SHALL BE THE SAME SIZE AND SPECIES AS SHOWN ON THE APPROVED LANDSCAPE PLAN OR MUST BE EQUIVALENT IN TERMS OF QUALITY AND SIZE.



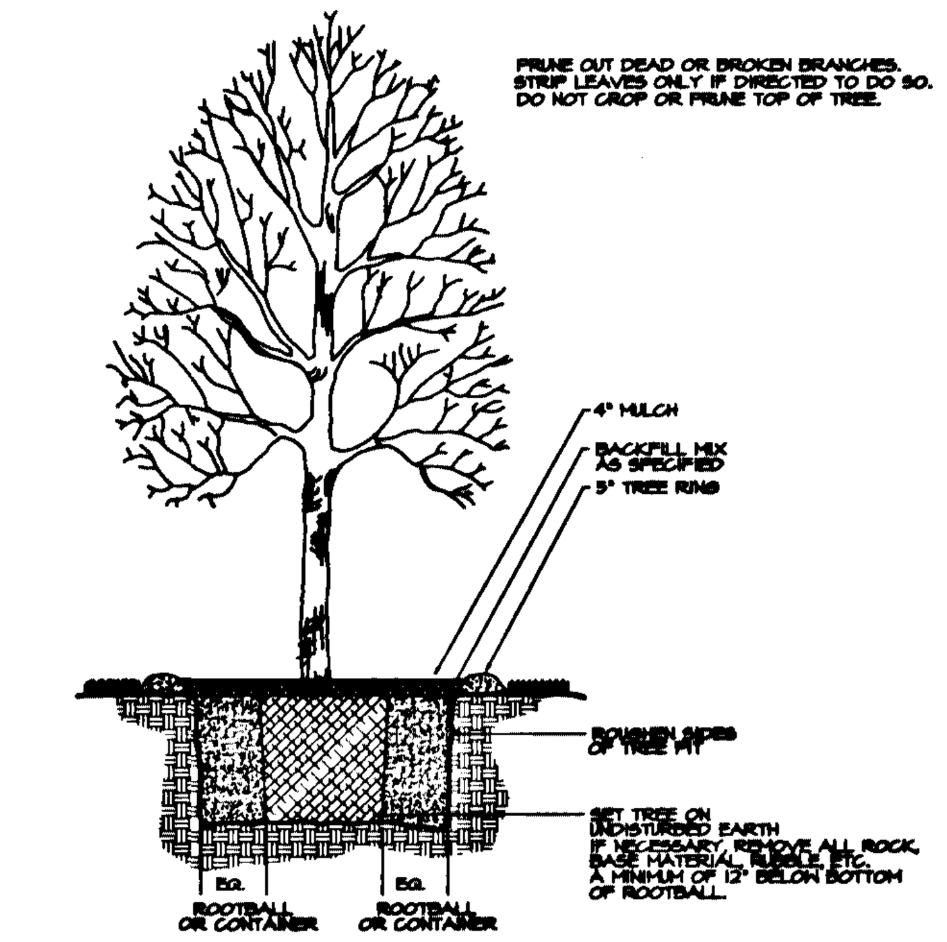
SHRUB PLANTING DETAIL

NOT TO SCALE



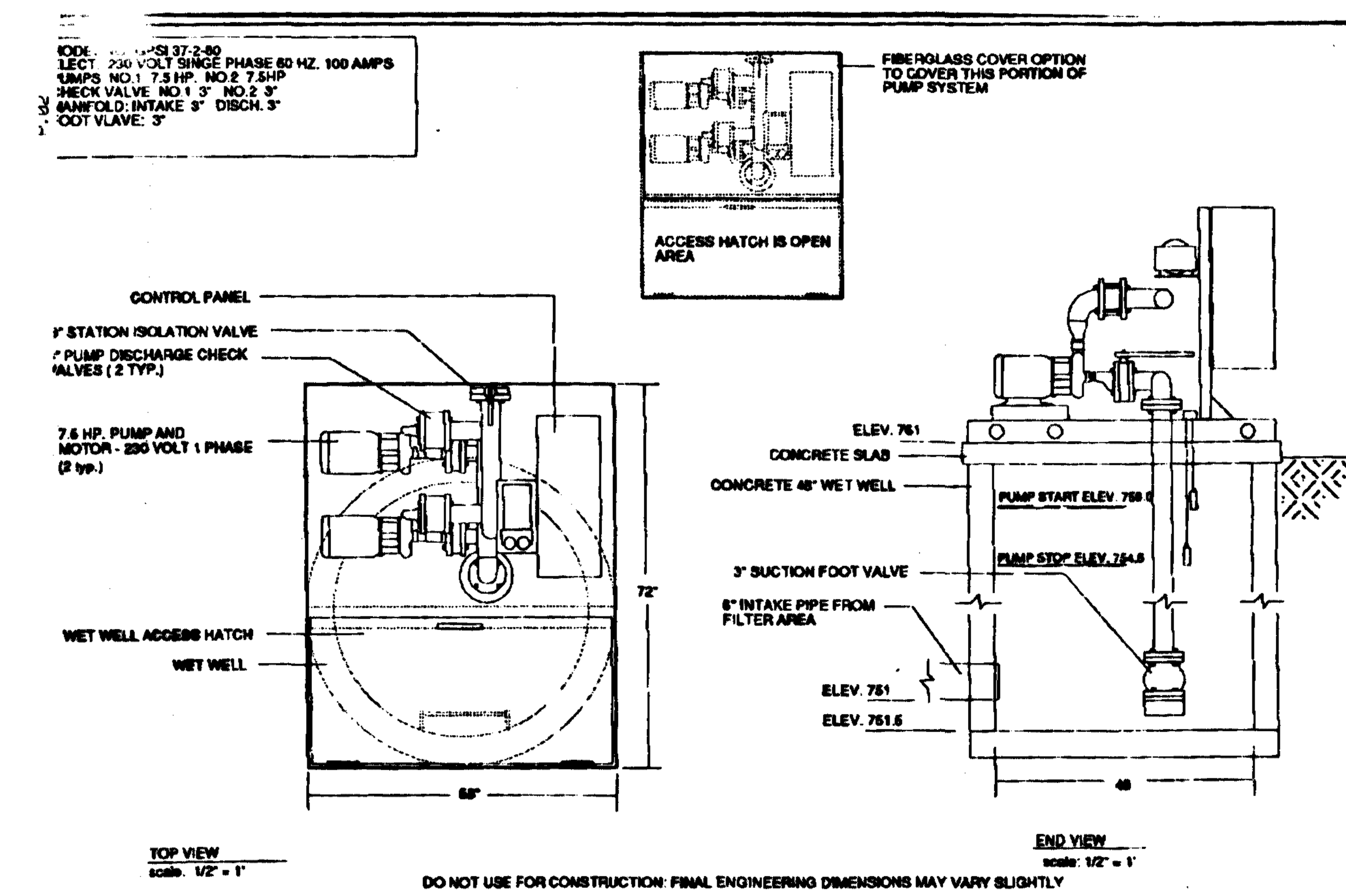
GROUNDCOVER / SEASONAL COLOR PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE



TOP VIEW
scale: 1/2" = 1'

END VIEW
scale: 1/2" = 1'

DO NOT USE FOR CONSTRUCTION: FINAL ENGINEERING DIMENSIONS MAY VARY SLIGHTLY

OAK HILL LIBRARY Austin, Texas	PROPOSED LIFT CENTRIFUGAL PUMPING SYSTEM FOR RE-IRRIGATION	REV. DATE: 8/2/95	SCALE: 1/2" = 1' DRAWING NO. 95343 DRAWN BY: GDR

SITE PLAN RELEASE Sheet 12 of 12

FILE NUMBER: SPC-94-0459C EXPIRATION DATE: 5-16-98
CASE MANAGER: GIPSON APPLICATION DATE: 12-1-94
APPROVED ADMINISTRATIVELY ON: —
APPROVED BY PLANNING COMMISSION ON: 5-16-95
APPROVED BY CITY COUNCIL ON: —
under Section 160 of Chapter 13-1 of the Austin City Code.

Director, Department of Planning and Development
DATE OF RELEASE: 9-26-95 Zoning: P
Rev. 1 ____ Correction 1 ____
Rev. 2 ____ Correction 2 ____
Rev. 3 ____ Correction 3 ____

WINTEROWD ASSOCIATES
LANDSCAPE ARCHITECTURE

ARCHITECTURE + PLUS
1101 CAPITAL OF TEXAS HWY., SOUTH
BUILDING E, SUITE 220
AUSTIN, TEXAS 78746
(512) 328-3424
FAX (512) 328-9384

STATE OF TEXAS — L. DIANE WINTEROWD — 1197 — REGISTERED LANDSCAPE ARCHITECT

Oak Hill Branch Library
5125 CONVICT HILL ROAD
CITY OF AUSTIN C.I.P. #853-857-0405

LANDSCAPE & IRRIGATION DETAILS

ISSUE DATE: APRIL 24, 1995

NO.	DATE	REMARKS
1	7-17-95	NOTE REVISIONS

SHEET L3 OF 3

12 of 12

PROJECT NUMBER: 942402

SPC-94-0459C

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Owen Orozco

Date: 07/19/2024

Signature of Customer/Agent:

Regulated Entity Name: Hampton Branch Library at Oak Hill

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

   ☐ The following fuels and/or hazardous substances will be stored on the site: _____

   These fuels and/or hazardous substances will be stored in:

   ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. ☒ **Attachment C - Sequence of Major Activities**. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

   ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

   ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Kincheon Branch

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

7. ☒ **Attachment D – Temporary Best Management Practices and Measures**. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices**. A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

ATTACHMENT A – Spill Response Plan

No spills of hydrocarbons or hazardous substances are expected. However, in the event such an incidence does occur, the contractor should carefully follow the following TCEQ guidelines:

Cleanup

(1) Clean up leaks and spills immediately.

(2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.

(3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly.

Minor Spills

(1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.

(2) Use absorbent materials on small spills rather than hosing down or burying the spill.

(3) Absorbent materials should be promptly removed and disposed of properly.

(4) Follow the practice below for a minor spill:

• Contain the spread of the spill.

• Recover spilled materials.

• Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately:

(1) Contain spread of the spill.

(2) Notify the project foreman immediately.

(3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.

(4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

From any event, the Reportable quantity (RQ) = for highly toxic materials the RQ>25 gals. For petroleum/hydrocarbon liquids, spills the RQ>250 gallons (on land) or that which creates "a sheen" on water. TxDOT may provide assistance in traffic control, containment and later repairs, but only certified Hazmat teams will be responsible for handling the material at the site.

For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512- 339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site. Additionally in the event of a hazardous material spill, local Williamson and Travis counties, and/or city of Austin police, fire and potentially EMS should be contacted in order to initiate the hazardous material response team.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

(3) Notification should first be made by telephone and followed up with a written report.

(4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at: http://www.tceq.state.tx.us/response/spills.html

ATTACHMENT B – Potential Sources of Contamination

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing
- Grading and excavation
- Vehicle Tracking
- Topsoil stripping and stockpiling
- Landscaping

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Area – small fueling, minor equipment maintenance, sanitary facility.
- Materials Storage Area – solvents, adhesives, paving materials, aggregates, trash, etc.
- Construction Activities – paving, concrete pouring
- Concrete washout area

Potential onsite pollutants:

- Fertilizer
- Concrete
- Glue, adhesives
- Gasoline, diesel fuel, hydraulic fluids, antifreeze
- Sanitary toilets
- Asphalt

ATTACHMENT C – Sequence of Major Activities

The sequence of major activities will be as follows:

1. Install erosion controls as indicated on the approved plans. (0.5 AC)
2. Contact the City of Austin to schedule pre-construction coordination meeting.
3. Evaluate temporary erosion control installation. Review construction schedule with the erosion control plans.
4. Demolish existing features.
5. Install electrical lines, illumination and EV chargers. (0.5 AC)
6. Begin site clearing and grading. (0.5 AC)
7. Construct sidewalks and pavements, including drive aisles, parking stalls, and fire lanes. Stripe parking and fire lanes. (0.5 AC)
8. Revegetate and stabilize disturbed areas. (0.5 AC)
9. Remove temporary sedimentation controls. (0.5 AC)
10. Schedule final inspection walk-through with the City of Austin

The total disturbed area is about 0.5 ac. The construction sequencing is an approximation and is subject to change. However, steps 1, 2, 9, and 10 will remain as the begin and end activities in the construction sequencing.

ATTACHMENT D – Temporary Best Management Practices and Measures

Please see erosion control sheet in the plan set for the temporary BMPs. The BMP's will be placed prior to construction activities.

For Upgradient stormwater:
Based on existing contours, stormwater falling outside of the project site LOC will flow either to the North or South of the site. Therefore, there is no upgradient stormwater that runs through the site and there is no need for temporary BMPs to be installed.

For on-site stormwater:
The previously approved and constructed sedimentation/filtration water quality pond will continue to treat pollutants from stormwater runoff. Since the proposed parking lot expansion project will have only a slight increase in impervious cover (0.11 acres) and this amount is already included in the original pond design, no additional BMPs are proposed. Please see attached B to form 0628 for additional information.

Temporary BMPs will be installed for all improvements, to reduce the potential amount of sedimentation and erosion entering into the surface waters downstream.

For Surface Streams:
Temporary and permanent BMPs are used to prevent pollutants from ultimately entering surface streams.

Temporary BMPs include mulch sock.

ATTACHMENT E – Request to Temporarily Seal a Feature

Not applicable.

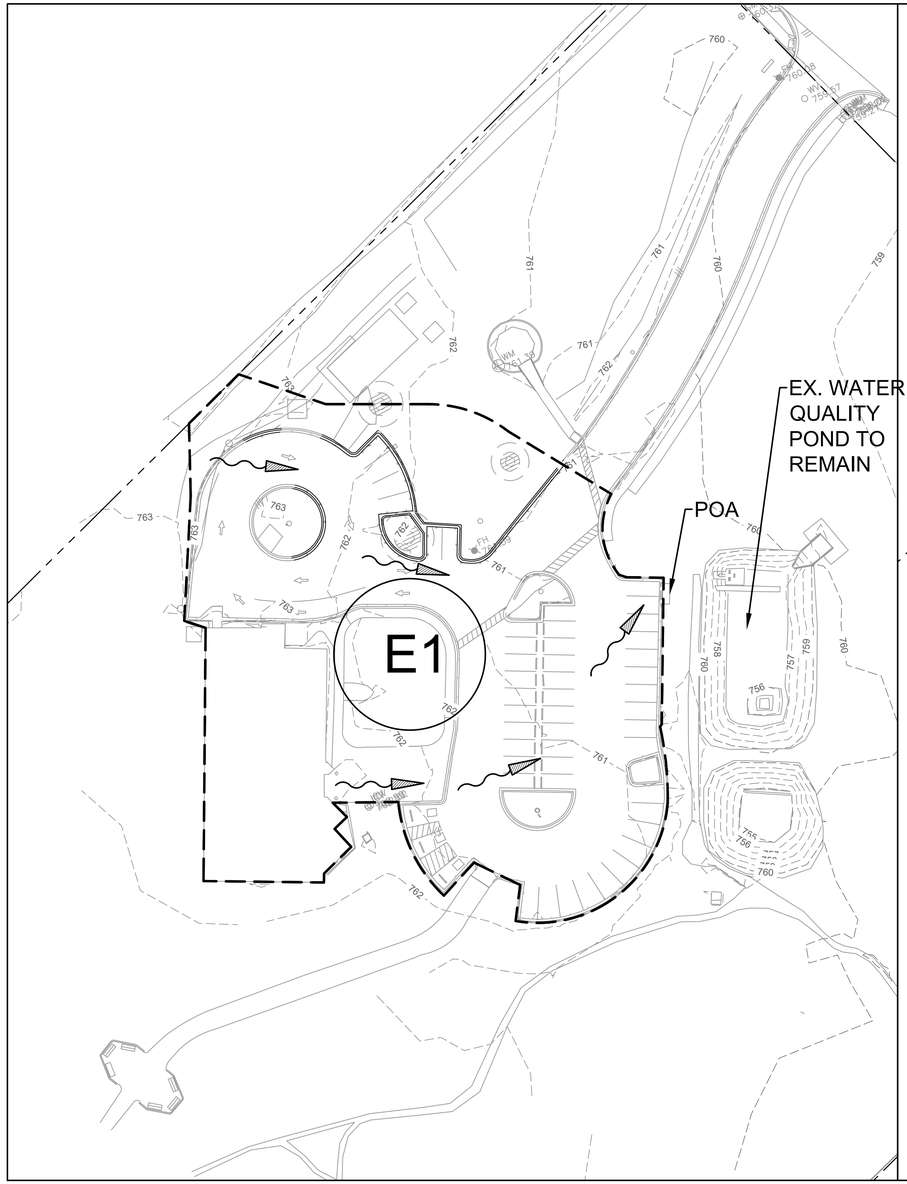
ATTACHMENT F – Structural Practices

The following temporary BMP structural practices will be employed on the site:

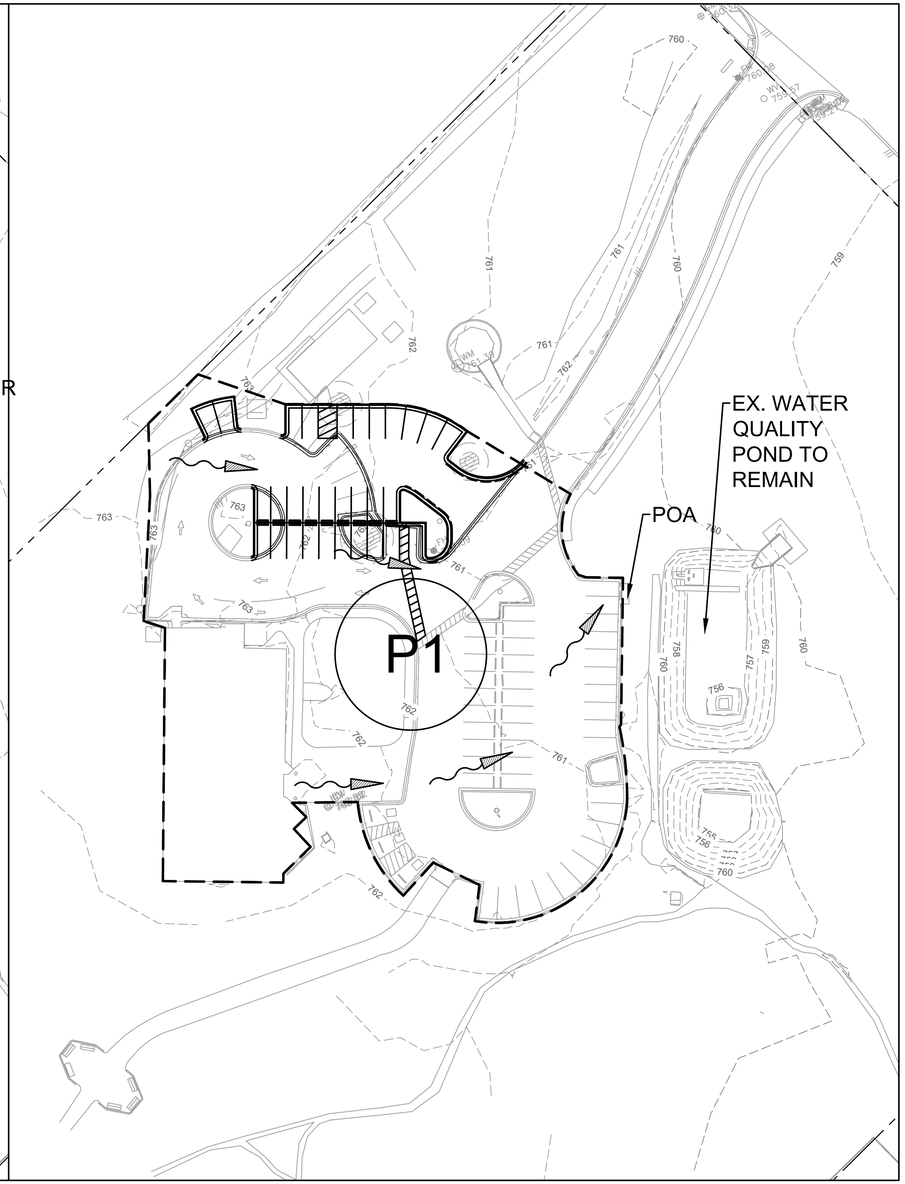
A. Mulch Sock – used as barrier protection along the East side of the project. The fence retains sediment primarily by retarding flow and promoting deposition within the project area to prevent sediment from flowing into the undisturbed portion of the parking lot. Runoff is filtered as is passes through the filter media.

The placement of structural practices in the floodplain has been avoided.

ATTACHMENT G – Drainage Area Maps



EXISTING DRAINAGE MAP



PROPOSED DRAINAGE MAP

Ex. Site Area	12.00	AC
Total Allowable IC (15%)	1.80	AC
	78,408.00	SF
Total Ex. IC	61,320.00	SF
	1.41	AC
Toal Ex. IC Percentage	11.73%	
Additional Pr. IC	4,882.53	SF
Total Pr. IC	66,202.53	SF
	1.52	AC
Toal Pr. IC Percentage	12.67%	

DA	Area	Tc	C2	i2	Q2	C10	i10	Q10	C25	i25	Q25	C100	i100	Q100
	(AC)	(min)		(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)
E1	1.31	5	0.64	6.31	5.29	0.71	9.61	8.94	0.76	11.79	11.74	0.85	15.42	17.17
P1	1.31	5	0.68	6.31	5.62	0.75	9.61	9.44	0.8	11.79	12.36	0.89	15.42	17.98
Peak Flow Increase					0.33			0.50			0.62			0.81

0 20 40
HORIZONTAL SCALE IN FEET

LEGEND

DRAINAGE AREA BOUNDARY

FLOW ARROW

NOTE:
DETENTION REQUIREMENTS FOR THIS SITE PLAN ARE WAIVED BASED ON THE DETENTION WAIVER WMS-95-041-W GRANTED IN ASSOCIATION WITH THE SITE PLAN SPC-94-0459C ON FEBRUARY 24, 1994, BY THE CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION, STORMWATER MANAGEMENT DIVISION. REFER TO THE DETENTION WAIVER FOR CONDITIONS OF PARTICIPATION.

SITE PLAN APPROVAL SHEET _____ OF _____
FILE NUMBER _____ APPLICATION DATE _____
APPROVED BY COMMISSION ON _____ UNDER SECTION _____
_____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) _____
CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A) _____
DWPZ _____ DDZ _____

DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____
REV. 1 _____ CORRECTION 1 _____
REV. 2 _____ CORRECTION 2 _____
REV. 3 _____ CORRECTION 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
ZHIPENG XING, P.E.
127763
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ZHIPENG XING, P.E. LIC. # 127763
7/19/2024
I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY
PARKING LOT EXPANSION

EXISTING & PROPOSED DRAINAGE AREA MAP

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/17/24
DESIGNED BY	OO	07/17/24
CHECKED BY	ZX	07/17/24
REVIEWED BY	RE	07/17/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

C203

SHEET 8 OF 18

A:\4200\54288\1003\PW\CADD\SHEETS\HAMP-C-DM-DVRV.DWG, ---, COA_PLOT_STYLES.STB
7/17/2024 3:31 PM
OWEN OROZCO

ATTACHMENT H – Temporary Sediment Pond(s) Plans and Calculations

Not applicable.

ATTACHMENT I – Inspection and Maintenance for BMP's

The inspection and maintenance of temporary BMP's will be in accordance with the following City of Austin standard specifications:

- Native Seeding and Planting for Restoration
- Mulch Sock

Please see attached.

Temporary BMP inspection report is also attached.

Inspection Date: _____

General Information			
Name of Project:	Hampton Branch Library Parking Lot Expansion	TCEQ Permit No.:	N/A (Small Site)
Inspector Name:		Inspector Title:	
Inspector's Contact Information:			
Inspection Location: (if multiple inspections are required)			
Inspection Frequency: Standard Frequency: ☐ Weekly ☐ Every 14 days and within 24 hours of a 0.50" rain Reduced Frequency: ☐ Once per month (for stabilized areas)			
Weather at the time of this inspection: _____ Was this inspection after a 0.50" storm event? ☐Yes ☐ No If yes, rainfall amount (in inches):			
Are there any discharges at the time of inspection? ☐ Yes ☐ No			

Condition and Effectiveness of BMP Controls & Pollution Prevention					
Sl. No.	**BMP Description & Location**	**Is BMP Installed & Operating Properly?**	**Corrective Action (CA) Required?**	**Date of BMP Maintenance**	**Notes**
1.	Mulch Sock Location:	☐ Yes ☐ No	☐ Yes ☐ No		

Pollution Prevention and Waste Management		
Items of Inspection	**Response & Reason**	**Action(s) Needed**
Is the site free of floatables, litter, and construction debris?	☐ Yes ☐ No If no,	
Are material storage and handling areas, including fueling areas, free of spills and leaks?	☐ Yes ☐ No If no, reason:	
Are spill kits available where spills and leaks are likely to occur?	☐ Yes ☐ No If no, reason:	
Are dumpsters and waste receptacles covered when not in use?	☐ Yes ☐ No If no, reason:	
Has preventative maintenance been conducted on equipment and machinery?	☐ Yes ☐ No If no, reason:	
Are material stockpiles sufficiently contained?	☐ Yes ☐ No If no, reason:	
Has there been any sediment tracked-out from the site onto the surface of paved street, sidewalks or other paved areas outside of the site?	☐ Yes ☐ No If no, reason:	
Is the project free from visible erosion and/or sedimentation?	☐ Yes ☐ No If no, reason:	

Complete the following section if a discharge is occurring at the time of the inspection:

Description of Discharges	
Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? ☐ Yes ☐ No, If yes, provide the following information for each point of discharge:	
Specify Discharge Location	**Observations (Visual Quality of the Discharge)**
1.	Describe the discharge (color, odor, floating, settled/suspended solids, foam, & oil sheen): Are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? ☐ Yes ☐ No, If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:
2.	Describe the discharge (color, odor, floating, settled/suspended solids, foam, & oil sheen): Are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? ☐ Yes ☐ No, If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:

Contractor or Subcontractor Certification and Signature:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:_____ Date: _____

Print Name: _____ Affiliation: _____

ITEM NO. 609S NATIVE SEEDING AND PLANTING FOR RESTORATION 1-4-16

609S.1 Description

This item shall govern the preparation of a seeding and planting area to the lines and grades indicated on the Drawings. This may include seedbed preparation, sowing of seeds, planting of rooted plants, watering, hydromulch, compost and other management practices, as indicated in the Drawings or as directed by the Landscape Architect, Engineer or designated representative.

This specification is applicable for projects or work involving either inch-pound or SI units. Within the text, inch-pound units are given preference with SI units shown within parentheses.

Source: Rule No. R161-14.29, 12-30-2014 .

609S.2 Submittals

The following submittal items are required in writing during construction:

A. For seed, provide identification of the species, source, mixture, and pure live seed (PLS) of the seed as listed on each seed bag to be used. Copies of the analysis tags and certification tags from all seed bags shall be submitted.

B. Type of mulch or compost.

C. Watering frequency and amount as shown on an irrigation watering schedule.

D. Type of management practices (e.g., hand-weeding, pesticide application, etc.) proposed, with a proposed schedule for observation and treatment.

E. For hydromulch applications, the proposed application rate of seed, type of mulch and tacking agent, and other relevant information. An example of the required documentation is in Table 1.

F. Type of hydraulic seeding equipment and nozzles proposed for use.

G. If pesticide use is proposed, an IPM plan for pest control including pesticide label, proposed application rate and timing, and MSDS sheets.

H. One gallon sample of proposed mulch or compost.

I. The following submittal items are required before Substantial Completion:

   A. For hydromulch applications, submit the complete hydromulch application log, including date, time and quantity of product units placed in the slurry tank. An example of an application log is in Table 2.

   B. Pesticide and fertilizer application tracking log. As of January 1, 2012, documentation of all outdoor pesticide and fertilizer use on city-owned properties is required to demonstrate compliance with the EPA/TCEQ mandated Municipal Stormwater Permit, the TPDES General Pesticide Permit, City Code, and the IPM program.

Table 1: Example of proposed hydromulch application rates

Hydro Mix	Sheet No.	Seed Mix	Acres	Hydro Slurry Unit (per acre rates)				
				Seed (Bags/ac)	Tackifier (Buckets/ac)	Mulch (Bales/ac)	Fertilizer (Bags/ac)	Addl. Amendments (Bags/ac)

1	L2	A	1.0	1	100	1000	50	5
2	L3	A	0.5	2	200	1500	50	5
3	L5	B	3.0	3	300	3000	50	5

Table 2: Example of hydromulch application log

Date	Start Time	Finish Time	ac/Tank	Water (gal)	Seed Mix	Hydro Slurry Unit (per acre rates)				
						Seed (Bags/ac)	Tackifier (Buckets/ac)	Mulch (Bales/ac)	Fertilizer (Bags/ac)	Addl. Amendments (Bags/ac)
4/13	10:30	11:15	1.0	3300	A	1	100	1000	50	5
4/17	2:00	2:30	0.5	3300	A	2	200	1500	50	5
5/20	8:30	10:00	1.2	3300	B	3	300	3000	50	5
					Totals	6	600	5500	127	15

Source: Rule No. R161-14.29, 12-30-2014 ; Rule No. R161-15.14, 1-4-2016 .

609S.3. Materials

A. Seed.

All seed must meet the requirements of the Texas Seed Law including the labeling requirements for showing PLS, name and type of seed, and all other required elements of the Analysis and Certification Tags. The seed furnished shall be of the previous season's crop and the date of analysis shown on each bag shall be within 12 months of the time of delivery to the project. Each variety of seed shall be furnished and delivered in separate bags or containers, unless a specific mix is proposed for use. A sample of each variety of seed shall be furnished for analysis and testing when directed by the Landscape Architect, Engineer or designated representative.

The amount of seed planted per square yard (.84 square meters) or acre (hectare) shall be of the type specified in Section 609S.5.

B. Water. Water shall be clean and free of industrial wastes and other substances harmful to the growth of plant materials in the area irrigated.

C. Topsoil. Topsoil shall conform to Standard Specification Item No. 601S.3(A).

D. Pesticide. A least toxic, integrated pest management (IPM) approach shall be used to control weeds. A written request for approval of weed control product(s) and/or materials shall be submitted to the City of Austin Watershed Protection Department (ERM) IPM program coordinator for approval. Additional information can be found at http://www.austintexas.gov/ipm.

E. Fertilizer. If fertilizer used is deemed necessary, the fertilizer shall conform to Standard Specification Item No. 606S, Fertilizer. The type and rate of fertilizer should be based on chemical tests of recent (no older than 6 months before application) representative site soil samples. Fertilizer should be applied only when plants can take them up for growth, during: 1) seed germination and plant establishment and 2) after plant establishment. Fertilizer shall not be applied within 48 hours of a potential rain event.

F. Tackifier. The tacking agent shall be a biodegradable material approved by the Landscape Architect, Engineer, or designated representative.

G. Mulch. Mulch may be used to help prevent soil erosion until preferred plant establishment, whether the mulch be hydraulically applied or shredded vegetative matter. Hydromulching for temporary and permanent vegetation stabilization shall conform to Environmental Criteria Section 1.4.7.

H. Hydroseeding Equipment. Hydroseeding equipment shall be clean and free of all previous seeds, fertilizer, mulch, or any hydroseeding products used on prior jobs.

I. Rooted Plants. Where proposed, rooted plants shall conform to the requirements of Standard Specification 608S, Planting.

Source: Rule No. R161-14.29, 12-30-2014 ; Rule No. R161-15.14, 1-4-2016 .

609S.4 Construction Methods

A. General.

The Contractor shall limit preparation to areas that will be seeded/planted immediately. All weedy species (Table 3) shall be controlled by application of an herbicide and/or by physical removal (by the roots) prior to, during the planting operation, and through establishment. The specified weedy species shall be maintained at ten (10) percent or less of total cover after seeding. Additionally, the Landscape Architect, Engineer, or qualified landscape professional may require removal of any plant species that appears to be out-competing seeded or planted species during construction or the establishment period.

Seeds and fruits of non-native woody invasive species should be separated from the rest of the removed plants before mulching or hauling off the material. It must be bagged and disposed of in a landfill to prevent unintentional reintroduction to the site or elsewhere.

Table 3: Weed List

Weed Type	Botanical Name	Common Name
Summer Annual Herb	*Ambrosia spp.*	Ragweed
Perennial Grass	*Bothriochloa ischaemum*	K.R. Bluestem
Annual Grass	*Cenchrus spp.*	Sandbur
Herb	*Cnidoscolus texanus*	Bull Nettle
Perennial Grass	*Sorghum halapense*	Johnson Grass
Perennial Grass	*Arundo donax*	Giant Cane
Perennial Grass	*Phllostachys aurea*	Golden Bamboo
Vine	*Toxicodendron radicans*	Poison Ivy
Herb	*Urtica spp.*	Stinging Nettle
Winter Annual Herb	*Rapistrum rugosum*	Bastard Cabbage
Winter Annual Grass	*Bromus arvensis*	Japanese Brome
Winter Annual Grass	*Lolium multiflorum*	Annual Ryegrass
Tree	*Triadica sebifera*	Chinese Tallow
Tree	*Ligustrum sp.*	Privet
Tree	*Melia azedarach*	Chinaberry
Tree	*Lonicera japonica*	Japanese Honeysuckle
Shrub	*Nandina domestica*	Heavenly Bamboo
Shrub	*Photinia sp.*	Photinia

B. Plant Bed Preparation.

After the designated seeding/planting areas have been rough graded, a suitable planting area shall be prepared. In areas where cut or fill is required, a minimum of 6 inches (150 mm) of topsoil (see Section 609S.3.C) shall be placed or use approved existing soil (that is not infested with invasive or noxious plant rootstock [e.g., *Arundo donax* rhizomes]) stockpiled over the entire planting area.

The topsoil or growing medium must be prepared so that compaction is appropriate for plant growth, and to achieve acceptable bulk density or hydrologic function. Ripper and subsoilers may be used to loosen compacted soil and roughen the surface. Disks, plows and excavator attachments are good for compaction reduction, roughening, and for incorporating amendments. If tracked machinery is used in seedbed preparation, cleat marks should run with the contour to prevent rills.

In areas with no soil disturbance, the weeds shall be eliminated and a minimum of 6 inches (150 mm) of topsoil, if none currently exists, shall be placed. The seedbed shall be prepared with limited irregularities, lumps or soil clods and the surface shall be raked or rolled to facilitate seed to soil contact.

Water shall be gently applied as required to prepare the seedbed before the planting operation either by broadcast seeding or hydraulic planting. Seeding shall be performed in accordance with the requirements hereinafter described.

C. Watering.

All watering shall comply with City Code Chapter 6-4 (Water Conservation). Water the seeded/planted areas immediately after installation to achieve germination and a healthy stand of native plants that can ultimately survive without supplemental water.

Apply the water uniformly to the planted areas without causing displacement or erosion of the materials or soil.

Watering applications shall insure that the plantbed is maintained in a moist condition favorable for the growth of plant materials. Watering shall continue until minimum coverage is achieved and accepted by the Landscape Architect, Engineer or designated representative. Watering may be postponed immediately after a half-inch inch (12.5 mm) or greater rainfall on the site but shall be resumed before the soil dries out.

D. Cool Season Cover Crop.

From September 15 to March 1, non-native and native seeding shall include a cool season cover crop at the rate specified in Tables 4, 5, or 6. Cool season cover crops are not permanent erosion control. If installed separately from the proposed seed mix, the cool season cover crops shall be mowed to a height of less than one (1) inch after March 1, and the area shall be re-seeded at the specified seeding rate for native warm-season species (March 1 to September 15).

Source: Rule No. R161-14.29, 12-30-2014 ; Rule No. R161-15.14, 1-4-2016 .

609S.5 Native Seeding and Planting

Seeding and planting shall be performed in accordance with the requirements described below. The optimum depth for seeding shall be 1/4 inch (6 millimeters). Seed shall be applied by a method that achieves consistent distribution across a site and proper seed to soil contact (i.e. hand broadcasting, hydromulch, or drill method).

Rooted plants should be strategically and thoughtfully placed on a site. They need not be installed at a consistent, regular pattern across the plantable area(s) of a site but can be clustered or placed irregularly. The goal is to place the rooted plants where they will have the greatest or best effect or impact, and where there is sufficient space (e.g., root space, space off of utilities) and proper conditions (e.g., soil depth, moisture, light) for their long-term success. Installation of rooted plants shall comply with Standard Specification 608S, but rooted plants must not be spaced closer than three-feet (3') on center. Mulching around seed and rooted plants is not required, but it is a

good technique for protecting plants during germination and establishment. Figure 609S.5-1 is an example of rooted plant layout on a hypothetical site.

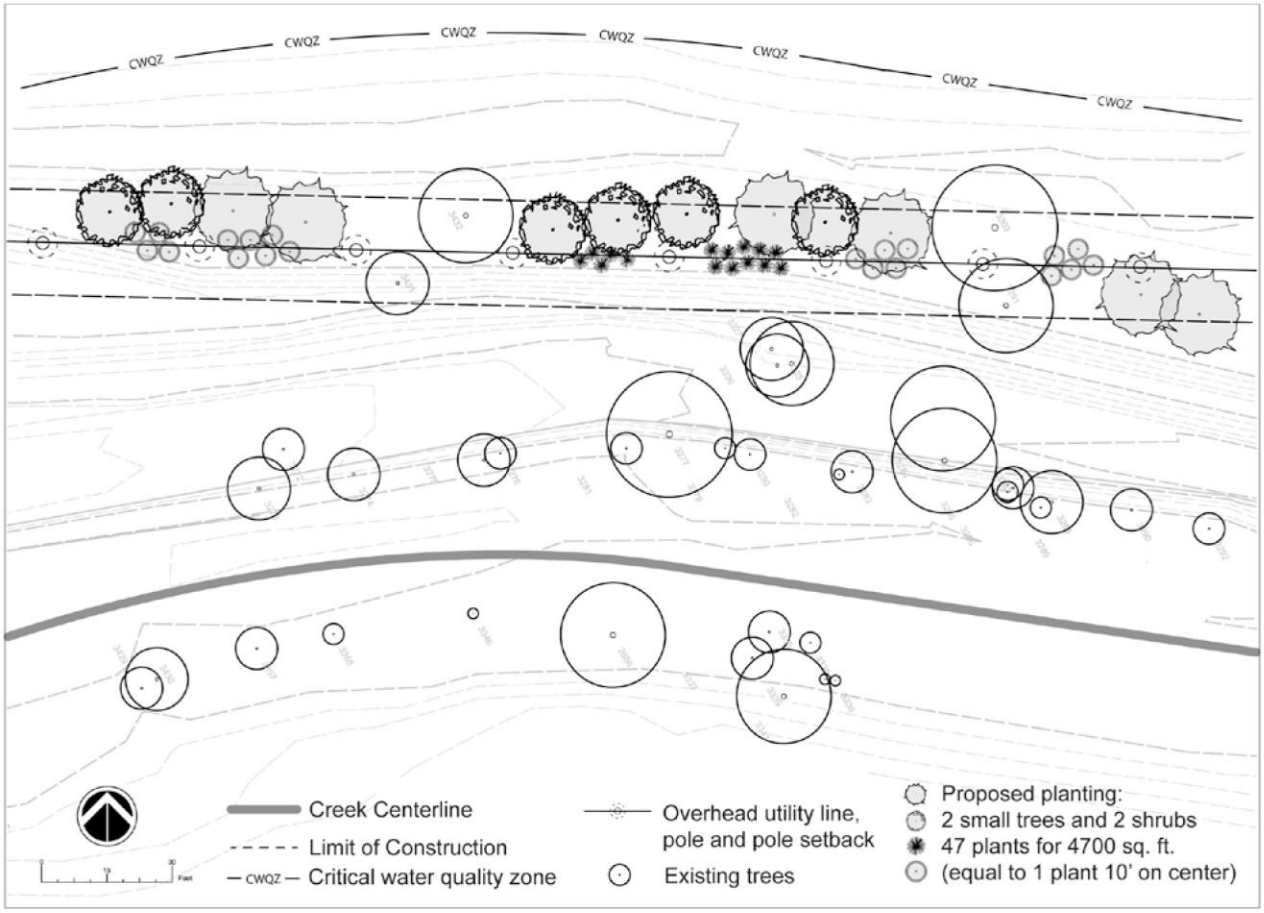


Figure 609S.5-1: Example of Rooted Plant Layout and Calculation

Rooted Plants such as trees, ornamentals, and shrubs are prohibited from being installed within fifteen (15) feet of any Austin Water Utility (AWU) infrastructure and/or within any easement dedicated for AWU infrastructure. Rooted plants such as grasses, succulents and/or ground cover are permitted within fifteen (15) of any AWU infrastructure and/or within any easement dedicated for AWU infrastructure.

Species substitution, when necessary due to availability, shall be approved by City of Austin representative including Environmental Reviewer, Environmental Inspector, or Watershed Protection Department representative. Only native or adapted species suitable for the designated environmental conditions shall be allowed as substitutes. Shorter growing natives such as Buffalograss should be sodded around manholes or other structures requiring higher visibility for access.

If the plant materials are being installed during the cool season (September 15 to March 1), a cool season cover crop species (as listed below) shall be included in the seed mix or installed separately.

The seed and rooted plant mixtures shall be applied in accordance with appropriate growing environments (Upland Full Sun-Table 4, Upland Shade-Dappled-Table 5 and Facultative Moderate to High Moisture-Table 6). Grasses shall constitute 67 percent of the seed mix, with forbs comprising 33 percent. No species shall constitute more than 20% of a seed mix.

Table 4. Upland Species, Full Sun Areas

Type	Common Name	Botanical Name	Recommended Application rate lbs/ac (kg/ha)	Rooted Plants Species, Diversity, Quantity & Size
Grass Seed Mix**	Buffalograss	*Buchloe dactyloides*	24.0 (27.0)	A minimum of two (2) native species of small or large trees, and two (2) native species of shrubs with Very Low or Low (VL or L) water needs and Sun or Sun/Part Shade light needs as listed in the current Grow Green Native and Adapted Landscape Plants guidance document***. Plants must be a minimum size of 1-gallon (see Table 8, equivalency chart) and minimum of 1 plant per 100 square feet.
	Blue Grama	*Bouteloua gracilis*	10.0 (11.2)	
	Green Sprangletop	*Leptochloa dubia*	2.0 (2.2)	
	Sand Dropseed	*Sporobolus cryptandrus*	1.0 (1.1)	
	Galleta	*Pleuraphis jamesii*	10.0 (11.2)	
	Canada Wild Rye	*Elymus canadensis*	10.0 (11.2)	
	Purple Threeawn	*Aristida purpurea*	4.0 (4.5)	
	Sideoats Grama	*Bouteloua curtipendula*	7.0 (7.8)	
Forb Seed Mix**	Bluebonnet	*Lupinus texensis*	20.0 (22.4)	
	Purple Prairie Clover	*Dalea purpurea*	4.0 (4.5)	
	Plains Coreopsis	*Coreopsis tinctoria*	2.0 (2.2)	
	Partridge Pea	*Chamaecrista fasciculata*	20.0 (22.4)	
	Greenthread	*Thelesperma filifolium*	6.0 (6.7)	
	Indian Blanket	*Gaillardia pulchella*	10.0 (11.2)	
	Lemon Mint	*Monarda citriodora*	3.0 (3.4)	
	Mexican Hat	*Ratibida columnaris*	2.0 (2.2)	
	Pink Evening Primrose	*Oenethera speciosa*	1.0 (1.1)	
	Sunflower (Common)	*Helianthus annuus*	5.0 (5.6)	
	Milkweed (Antelope	*Asclepias asperula or*	0.1 (0.04)	

	Horn or Green milkweed)	*Asclepias viridis*		
Total Total recommended seed mix application rate is 35 lbs/ac (23.5 lbs/ac grass, 11.5 lbs/ac forbs).				
Cool Season Cover Grasses	Cereal rye grain*	*Secale cereale*	34.0 (38.1)	Add at least one of the cool season grasses to the warm-season mix between September 15 and March 1.
	Oats*	*Avena sativa*	4.0 (4.5)	
	Western Wheatgrass*	*Pascopyrum smithii*	5.6 (6.3)	

* Plant only between. September 15 to March 1. Non-persistent winter cover crop for erosion control. Only one cool season species is required per installation.

** Any unavailable species can be substituted with the same quantity of another species from this list or another species approved by an authorized City of Austin representative including Environmental Reviewer, Environmental Inspector, or Watershed Protection Department representative. The total pounds/acre (lbs/ac) of the proposed seed mix can be calculated based on the desired percentage of each seed in a mix.

*** www.austintexas.gov/department/grow-green/plant-guide

Table 5. Upland Species, Shade-Dappled Light Areas

Type	Common Name	Botanical Name	Recommended Application rate lbs/ac (kg/ha)	Rooted Plants Species, Diversity, Quantity & Size
Grass Seed Mix***	Inland Seaoats**	*Chasmanthium latifolium*	12.0 (13.5)	A minimum of two (2) native species of small or large trees, and two (2) native species of shrubs with very low (VL), low (L), or low- medium (L-M) water needs and Sun /Part Shade light needs as listed in the current Grow Green Native and Adapted Landscape Plants guidance document****. Plants must be a minimum size of 1-gallon (see Table 8, equivalency chart) and minimum of 1 plant per 100 square feet.
	Canada Wildrye	*Elymus canadensis*	10.0 (11.2)	
	Sideoats Grama	*Bouteloua curtipendula*	7.0 (7.8)	
Forb Seed Mix***	Purple Coneflower	*Echinacea purpurea*	10.0 (11.2)	
	Lanceleaf Coreopsis	*Coreopsis lanceolata*	10.0 (11.2)	
	Scarlet Sage	*Salvia coccinea*	8.0 (9.0)	
	Drummond Phlox	*Phlox drummondii*	8.0 (9.0)	
	Black-Eyed Susan	*Rudbeckia hirta*	2.0 (2.2)	
	Cutleaf Daisy	*Engelmannia pinnatifida*	18.0 (20.2)	
	Tall Aster	*Aster praealtus*	1.0 (1.1)	
	Illinois bundleflower	*Desmanthus illinoensis*	15.0 (16.8)	

	Standing cypress	*Ipomopsis rubra*	6.0 (6.7)	
	Winecup	*Callirhoe involucrata*	5 (5.6)	
	Milkweed (Butterfly Weed or Showy Milkweed)	*Asclepias tuberosa or Asclepias speciosa*	0.1 (0.04)	
Total Total recommended seed mix application rate is 35 lbs/ac (23.5 lbs/ac grass, 11.5 lbs/ac forbs).				
Cool Season Cover Grasses	Cereal rye grain***	*Secale cereale*	34.0 (38.1)	Add at least one of the cool season grasses to the warm-season mix between September 15 and March 1.
	Oats***	*Avena sativa*	4.0 (4.5)	
	Western Wheatgrass***	*Pascopyrum smithii*	5.6 (6.3)	

** If unavailable replace with Prairie Wild Rye.

*** Plant only between September 15 to March 1. Non-persistent winter cover crop for erosion control. Only one cool-season species is required per installation.

**** Any unavailable species can be substituted with the same quantity of another species from this list or another species approved by an authorized City of Austin representative including Environmental Reviewer, Environmental Inspector, or Watershed Protection Department representative. The total pounds/acre (lbs/ac) of the proposed seed mix shall be calculated based on the desired percentage of each seed in a mix.

**** www.austintexas.gov/department/grow-green/plant-guide

Table 6. Facultative Species, Moderate - High Moisture Areas

Type	Common Name	Botanical Name	Recommended Application rate lbs/ac (kg/ha)	Rooted Plants Species, Diversity, Quantity & Size
Grass Seed Mix**	Big Bluestem	*Andropogon gerardii*	8.0 (9.0)	A minimum of two (2) native species of small or large trees, and two (2) native species of shrubs with low (L), low-medium (L-M), or medium (M) water needs and Sun/Part Shade or Shade light needs as listed in the current Grow Green Native and Adapted Landscape Plants guidance document***. Plants must be a minimum size of 1-gallon (see Table 8, equivalency chart) and minimum of 1 plant per 100 square feet.
	Big Muhuly (Lindhiemers)	*Muhlenbergia lindheimeri*	6.0 (6.7)	
	Bushy Bluestem	*Andropogon glomeratus*	6.0 (6.7)	
	Eastern Gamagrass	*Tripsacum dactyloides*	12.0 (13.5)	
	Indiangrass	*Sorghastrum nutans*	6.0 (6.7)	
	Inland Seaoats	*Chasmanthium latifolium*	12.0 (13.5)	

	Canada Wildrye	*Elymus canadensis*	10.0 (11.2)	
	Sand Lovegrass	*Eragrostis trichodes*	2.0 (2.2)	
	Switchgrass	*Panicum virgatum*	4.0 (4.5)	
Forb Seed Mix**	Black-Eyed Susan	*Rudbeckia hirta*	2.0 (2.2)	
	Illinois Bundleflower	*Desmanthus illinoensis*	15.0 (16.8)	
	Purple Prairie Clover	*Dalea purpurea*	4.0 (4.5)	
	Clasping Coneflower	*Dracopis amplexicaulis*	3.0 (3.4)	
	Plains Coreopsis	*Coreopsis tinctoira*	2.0 (2.2)	
	Goldenrod	*Solidago altissima*	1.0 (1.1)	
	Lazy Daisy	*Aphanostephus sp.*	1.0 (1.1)	
	Lemon Mint	*Monarda citriodora*	3.0 (3.4)	
	Sunflower (Common)	*Helianthus annuus*	5.0 (5.6)	
	Sunflower (Maximilian)	*Helianthus maximiliana*	4.0 (4.5)	
	Milkweed (common or Butterfly Milkweed)	*Asclepias syriaca or Asclepia tuberosa*	0.1 (0.04)	
Total Total recommended seed mix application rate is 26.0 lbs/ac (17.0 lbs/ac grass, 9.0 lbs/ac forbs).				
Cool Season Cover Grasses	Cereal rye grain*	*Secale cereale*	34.0 (38.1)	Add at least one of the cool season grasses to the warm-season mix between September 15 and March 1.
	Oats*	*Avena sativa*	4.0 (4.5)	
	Western Wheatgrass*	*Pascopyrum smithii*	5.6 (6.3)	

* Plant only between September 15 to March 1. Non-persistent winter cover crop for erosion control.

** Any unavailable species can be substituted with the same quantity of another species from this list or another species approved by an authorized City of Austin representative including Environmental Reviewer, Environmental Inspector, or Watershed Protection Department representative. The total pounds/acre (lbs/ac) of the proposed seed mix can be calculated based on the desired percentage of each seed in a mix.

*** www.austintexas.gov/department/grow-green/plant-guide

Table 7. Rooted Plant Size Equivalents

Potential Substitute		Equivalent To	
Quantity	Plant Size	Quantity	Plant Size
1	5-gallon	4	One-gallon
1	Two- or Three-gallon	2	One-gallon
4	4" pots or quarts	1	One-gallon
8	Plugs, live roots, saplings	1	One-gallon

Table 8. Seed Rate Calculation

Multiple species native seed mixes require careful calculations to ensure proper planting rates. The example below is for illustrative purposes only.

Species	Seeding Rate (lbs/ac)	Desired proportion of a species in the total mix (%)	Total quantity of seed in mix (lbs/ac)
Grass 1	7	.20	1.40
Grass 2	2	.20	0.40
Grass 3	24	.20	4.80
Forb 1	10	.20	2.00
Forb 2	8	.20	1.60
TOTALS	- -	1.0 (100%)	10.2

Table 9. Seed Calculation Worksheet

The amount of seed needed to be planted on a project shall be calculated before installation to ensure adequate seed is placed, and provided as a submittal. Table 9 is an example worksheet, followed by an example calculation. Information for calculation can be obtained from seed tags or the supplier.

Plant Group	Desired Seeding Rate (lbs/ac)	PLS (pure live seed)	Bulk Rate (lbs/ac)	Seeding Area (ac)	Amt. of Seed to be Installed (lbs)
Grasses					
Forbs					
TOTAL					

FORMULAS:

PLS (pure live seed) = (Purity × Germination) × 100. Can also use average PLS from seed tags.

Bulk Rate (lbs/ac) =Desired Seed Rate (lbs/ac)/PLS

Amt. of Seed to be Installed (lbs) = Bulk Rate (lbs/ac) × Seeding Area (ac)

Example:

Plant Group	Desired Seeding Rate (lbs/ac)	PLS [pure live seed] (% decimal)	Bulk Rate (lbs/ac)	Seeding Area (ac)	Amt. of Seed to be Installed (lbs)
Grasses	131.00	0.81	161.73	1.50*	242.60

Forbs	65.34	0.87	75.10	1.50*	112.70
TOTAL	196.34	0.84 (ave.)	236.83	1.50	355.30

*Applied over the same 1.5 ac area.

Source: Rule No. R161-14.29, 12-30-2014 ; Rule No. R161-15.14, 1-4-2016 .

609S.6 Management Practices

Management Practices include (1) weed management (pesticide application or mechanical removal) to so than 90 percent of the revegetation area is free of weeds listed in Table 3, (2) reseeding areas of poor germination to achieve coverage and height per 609S.8, with no bare areas greater than 10 s.f., and (3) replacement and replanting of rooted plants per 608S.5(O) [Plant Material Removal and Replacement] and 608S.7 (Acceptability of Plants).

Weeds, as defined in the Weed List (Table 3), shall be controlled in the most efficient manner possible. The timing of weed control may occur prior to soil disturbance, just before the installation of seed, and/or during the period of plant establishment. Weed control shall be introduced at one or all of these times, so that the greatest control is achieved. The preferred method of control is to remove weeds, either by physical or mechanical means, when the site is conducive (e.g. when the ground is moist) to this approach.

The entire root system of perennial weeds shall be removed to prevent re-sprouting. Table 9 provides management practices for woody invasive vegetation. Weeds may be controlled with an approved contact, systemic herbicide, provided the product is used with appropriate care and is applied in accordance with label instructions and the following guidelines:

1. Herbicide shall not be applied when the wind is greater than 8 mph (12.9 kph),
2. Herbicide shall not be applied when rainfall is expected within 24 hours,
3. Herbicide shall not contact surface water, i.e. creeks, rivers, and lakes,
4. Herbicide shall not contact desirable vegetation (a wicking method shall be used, if necessary, to accurately contact target weed only during application).

Table 10. Management Practices for Woody Invasive Vegetation

Before Seeding	
Stems ≤1 inch	Pull with weed wrench
Stems >1 inch	Cut at base and spray stump with appropriate herbicide within five minutes. Bag and dispose of seeds and fruit in landfill.
After Seeding	
Seedlings	Hand pull
Sprouts	Foliar application of appropriate herbicide

The Landscape Architect, Engineer or designated representative shall be consulted to determine appropriate weed control management when weeds are located in an environmentally sensitive location (e.g. near water or adjacent to a critical environmental feature).

Source: Rule No. R161-14.29, 12-30-2014 ; Rule R161-15.14, 1-4-2016.

609S.7 Reseeding/Replanting

At locations that fail to show an acceptable stand of planting for any reason during the initial seeding, repair and/or reseed, replant locations as determined by the Landscape Architect, Engineer or designated representative. A successful stand of grasses and forbs should exhibit the following:

- Seedlings with vigorous green foliage;
- Green leaves remaining throughout the summer, at least at the plant bases;
- Uniform density, with grasses and/or forbs well intermixed;
- Minimum of 95% cover; and
- No patches of exposed soil greater than 10 s.f. in aerial extent.

The Owner or designated representative will inspect the seeding/planting during April of the calendar year following the year of initial seeding/planting and determine the necessity and extent of over seeding reseeding, or replanting required. Contractor shall ideally complete any required reseeding/replanting before May 15 of that year. This date may be extended if, in the opinion of the Owner and qualified landscape professional, the weather conditions before May 15 are not suitable for reseeding work. If the timing is bad, an annual cover crop can be over-seeded in a deficient area to temporarily provide coverage until a suitable time for seeding or planting perennial seed or rooted plants. If vegetation fails to grow and thrive, the soil must be tested to determine whether nutrient imbalances are responsible and, if so, an appropriate course of nutrient remediation (e.g., fertilizers, composts, topsoils, or other organic amendments) as recommended by a landscape professional must be implemented by the Contractor.

The Contractor shall meet the requirements for initial seeding and planting, including seeding method, seed mix, application rates, and slope texturing as applicable, unless otherwise agreed to in writing by the Owner and/or City staff. Corrected deficiencies will be re-inspected and approved by the Owner and designated representative, and final acceptance will be granted only upon satisfactory completion.

Source: Rule No. R161-14.29, 12-30-2014 ; Rule No. R161-15.14, 1-4-2016 .

609S.8 Measurement

Work and acceptable material for Native Seed and Planting for Restoration will be measured by the square yard (square meter: 1 square meter equals 1.196 square yards) or by the acre (hectare: 1 hectare equals 2.471 acres), complete in place, so that all areas of a site that rely on vegetation for stability must be uniformly vegetated with a minimum of 95 percent total coverage with no bare areas exceeding 10 square feet (1.5 square meters) and a 1½ inch tall (40 millimeters) successful stand of plant materials. Ninety (90) percent of the overall planted area must be free of weeds listed in Table 3. Bare areas shall be re-prepared and reseeded as required by the Landscape Architect, Engineer or designated representative to develop an acceptable stand of vegetation.

Source: Rule No. R161-14.29, 12-30-2014 ; Rule No. R161-15.14, 1-4-2016 .

609S.9 Payment

The work performed and materials furnished and measured will be paid for at the unit bid price for Native Seeding and Planting for Restoration of the method specified on the Drawings.

The unit bid price shall include full compensation for furnishing all materials, including all topsoil, water, seed, or fertilizer or mulch and for performing all operations necessary to complete the work.

Payment will be made under one or more of the following pay items:

Pay Item No. 609S-A:	Topsoil and Seedbed Preparation	Per Square Yard.
Pay Item No. 609S-B:	Topsoil and Seedbed Preparation	Per Acre.
Pay Item No. 609S-C:	Native Seeding	Per Square Yard.
Pay Item No. 609S-D:	Native Seeding	Per Acre.
Pay Item No. 609S-E:	Rooted Plants	Per each.
Pay Item No. 609S-F:	Watering	Per 1,000 Gallons (Kgal).
Pay Item No. 609S-G:	Management Practices	Per Square Yard.
Pay Item No. 609S-H:	Management Practices	Per Acre.

End

SPECIFIC CROSS REFERENCE MATERIALS	
Specification Item 609S Native Grassland Seeding and Planting for Erosion Control	
City of Austin Standard Specifications	
Designation	Description
Item No. 130S	Borrow
Item No. 601S	Salvaging and Placing Topsoil
Item No. 606S	Fertilizer
City of Austin Land Development Code	
Designation	Description
Section 6-4	Water Conservation

RELATED CROSS REFERENCE MATERIALS	
Specification Item 609S Native Grassland Seeding and Planting for Erosion Control	
City of Austin Standard Specifications	
Designation	Description
Item No. 602S	Sodding for Erosion Control
Item No. 604S	Seeding for Erosion Control
Item No. 605S	Soil Retention Blanket
Item No. 607S	Slope Stabilization
Item No. 608S	Planting
City of Austin Standards (Details)	
Standard No.	Description
627S-1	Grass Lined Swale
627S-2	Grass Lined Swale W/Stone Center
633S-1	Landgrading
Texas Department of Transportation: Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges	
Designation	Description
Item No. 160	Topsoil

Item No. 162	Sodding for Erosion Control
Item No. 164	Seeding for Erosion Control
Item No. 166	Fertilizer
Item No. 168	Vegetative Watering
Item No. 169	Soil Retention Blankets
Item No. 180	Wildflower Seeding
Item No. 192	Landscape Planting

ITEM NO. 648S MULCH SOCK 3-1-22

648S.1 Description

A mulch sock consists of material encased in a tube of mesh. It is used to intercept, settle, and filter sheet flow and pond runoff. Mulch socks provide an environmentally sensitive and cost-effective alternative to sediment fences.

648S.2 Submittals

The submittal requirements for this specification item shall include the following:

A. Mulch Material.

1. A small sample of mulch material proposed to be used on the site will be provided to the engineer.
2. Provide a designated project stockpile of mulch for sampling and testing at the producer's site.
3. A copy of the lab analysis, performed by an STA-certified lab, verifying that the mulch material meets the requirements of Table 1.

Table 1

Item	Requirement	Reference Specification
Particle Size	3″ minus screening process	Equivalent to TXDOT item 161, Compost, Section 1.6.2.B, Wood Chip requirements
pH	5.5 - 8.5	TMECC 04. 11-A, "1.5 Slurry pH"
Organic Matter Content	≥25%, dry weight basis	TMECC 05.07-A, "Loss-On-Ignition Organic Matter Method"

B. Tube Material.

The CONTRACTOR shall submit a sample of the material that the CONTRACTOR proposes to use on the project. A sample of the material should be accompanied by material data sheet identifying composition, ability of the material to biodegrade, and size of openings in tube at a minimum.

648S.3 Materials

A. Mulching material can be manufactured on or off the project site and may consist of:

1. Shredded bark
2. Stump grindings
3. Composted bark

B. The mulch shall have the following composition:

1. Wood chips shall be produced from a 3-inch minus screening process (equivalent to TxDOT item 161, Compost, Section 1.6.2.B Wood Chip Requirements).
2. Large portions of silts, clays, or fine sands are not acceptable.
3. The pH of the mulch shall be between 5.5 and 8.5.

4. The organic matter content shall be greater than or equal to 25% on a dry weight basis.

C. Mulch material must be free of refuse, physical contaminants, and material toxic to plant growth. It is not acceptable for the mulch material to contain ground construction debris, biosolids, manure, or recyclable material.

D. Prior to placement, a representative sample of the mulching material must be tested and certified by the project engineer or his/her designee and accepted by the city inspector.

E. The sock material mesh opening shall be equal to or less than ⅜ inch (10 mm) and the material tensile strength shall be equal to or greater than 202 psi (14.2 kg/cm^2).

Source: Rule No. R161-14.29, 12-30-2014 .

648S.4 Installation

A. Use 12 or 18 inch diameter mulch socks for all sediment control applications. This diameter of mulch sock material has proven to be the most consistent for all sediment control applications (TxDOT, April 2006).

B. Install mulch socks per Figure 1.4.5.F in the City of Austin Environmental Criteria Manual.

C. Mulch socks should be used at the base of slopes no steeper than 2:1 and should not exceed the maximum spacing criteria provided in the following table.

Slope	Max. Slope Length Between 18 in. Dia. Sock (ft)	Max. Drainage Area (sf) per 100 ft of Sock
100:1 - 50:1	100	10,000
50:1 - 30:1	75	7,500
30:1 - 25:1	65	6,500
25:1 - 20:1	50	4,800
20:1 - 10:1	25	2,600
10:1 - 5:1	15	1,300
5:1 - 2:1	10	1,000

Slope	Max. Slope Length Between 12 in. Dia. Sock (ft)	Max. Drainage Area (sf) per 100 ft of Sock
100:1 - 50:1	100	6,000
50:1 - 30:1	40	4,000
30:1 - 25:1	30	3,000
25:1 - 20:1	25	2,600
20:1 - 10:1	15	1,300
10:1 - 5:1	10	1,000
5:1 - 2:1	5	500

D. Place mulch socks at a 5 feet or greater distance away from the toe of the slopes to maximize space available for sediment deposition.

E. When placed on level contours, sheet flow of water should be perpendicular to the mulch sock at impact and unconcentrated.

F. Install mulch socks using rebar (#5 minimum with safety caps) a minimum of 48 inches in length placed on 2-foot centers. In order to prevent the movement or floating of the mulch sock during rain events or

construction operations, install steel posts on alternating sides of the sock. Drive the posts into the ground to a minimum depth of 24 inches, leaving less than 12 inches of post above the exposed mulch sock.

G. In order to prevent water flowing around the ends of the mulch socks, point the ends of the socks up slope.

H. In order to prevent water from flowing between the gaps at adjacent ends of mulch socks, overlap the ends of adjacent mulch socks a minimum of 12 inches. Never stack mulch socks on top of one another.

I. Mulch Socks should be placed using "smiles" and "j-hooks". See ECM Section 1.4.5 G (Silt Fence).

J. For steeper slopes, an additional mulch sock can be constructed on the top of the slope and within the slope area as determined by specific field conditions. Multiple mulch socks are recommended on steeper slopes.

K. Do not use mulch socks in areas of concentrated flow as they are intended to control sheet flow only.

648S.5 Inspection and Maintenance

A. Inspect mulch socks after installation for gaps under the mulch socks and for gaps between the joints of adjacent ends of mulch socks. Contractor shall repair gaps such that no water flows under or around sock.

B. Inspect every seven days and within 24 hours of a rainfall event of 0.5 inches or greater. Replace and repair mulch socks as necessary.

C. Sediment retained by the mulch socks shall be removed when it has reached one third of the exposed height of the mulch socks.

D. Mulch socks can be vegetated or un-vegetated. Vegetated mulch socks can be left in place. The vegetation will grow in the slope, further anchoring the sock.

648S.6 Measurement

Installed mulch sock shall be measured along the center line of the installed mulch sock ignoring any overlaps.

Source: Rule No. R161-22.01 , 3-1-2022.

648S.7 Payment

The work performed and the materials furnished as prescribed by this item shall be paid for by the linear foot of mulch sock installed.

Payment will be made under:

Pay Item No. 648S:	Mulch Sock	Per Lineal Foot.

Source: Rule No. R161-22.01 , 3-1-2022.

END

SPECIFIC CROSS REFERENCE MATERIALS	
Specification Item No. 648S, "Mulch Sock"	
City of Austin Environmental Criteria Manual	
Designation	Description
1.4.5.F	Mulch Sock

1.4.5.G	Silt Fence
City of Austin Standard Details	
Designation	Description
648S-1	Mulch Sock

ATTACHMENT J – Schedule of Interim and Permanent Soil Stabilization Practices

The schedule of interim and permanent soil stabilization practices will be according to plans, applicable specifications and the Texas Pollutant Discharge Elimination System (TPDES) General Permit TXR150000.

Prior to Disturbance – Install all temporary erosion and sedimentation control features.

During Construction – Maintain all temporary erosion and sedimentation control structures. Inspect all temporary erosion and sedimentation control structures on a weekly basis and after rain events. Maintain a record at the site of when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

After Completion of Permanent Erosion and Sediment Controls – Stabilize and restore all areas disturbed during construction. Permanent seeding will be applied immediately after the final design grades are achieved on portions of the site but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated will be removed and hauled off-site for disposal. Construction debris, trash and temporary BMPs including silt fences, material storage areas, sanitary toilets, etc.) will also be removed and any areas disturbed during removal will be seeded immediately.

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Cody Scott,
Print Name

Facilities Process Manager,
Title - Owner/President/Other

of City of Austin,
Corporation/Partnership/Entity Name

have authorized Owen Orozco
Print Name of Agent/Engineer

of Halff Associates, Inc.
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

7/3/24
Date

THE STATE OF Texas §

County of Travis §

BEFORE ME, the undersigned authority, on this day personally appeared Cody Scott known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 3rd day of July 2024

LAURA CARMONA POLIO
Notary Public, State of Texas
Comm. Expires 07-12-2026
Notary ID 129868124

Laura Carmona Polio
NOTARY PUBLIC

Laura Carmona Polio
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 7/12/2026

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Hampton Branch Library at Oak Hill
Regulated Entity Location: 5125 Convict Hill Rd, Austin, TX 78749
Name of Customer: City of Austin
Contact Person: Cody Scott Phone: 512-696-2537
Customer Reference Number (if issued):CN 600135198
Regulated Entity Reference Number (if issued):RN 102137817

Austin Regional Office (3373)

☐ Hays ☒ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☒ Austin Regional Office
☒ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	1 Each	$ 500
Extension of Time	Each	$

Signature: _____ Date: 07/19/2024

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

Project	*Project Area in Acres*	*Fee*
One Single Family Residential Dwelling	< 5	$650
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	$1,500 $3,000 $4,000 $6,500 $8,000 $10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	$3,000 $4,000 $5,000 $6,500 $8,000 $10,000

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal (*Core Data Form should be submitted with the renewal form*)

☒ Other **Recharge and Transition Zone Exception Request**

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600135198		**RN 102137817**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* | *If new Customer, enter previous Customer below:*

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☐ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:							
	City		**State**		**ZIP**		**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
( ) -		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Hampton Branch Library at Oak Hill

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	5125 Convict Hill Road							
	City	Austin	**State**	TX	**ZIP**	78749	**ZIP + 4**	
24. County	Travis							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	30.219125		**28. Longitude (W) In Decimal:**	-97.855003	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	13	8.853	97	51	18.012

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
8231		519210	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Public Library

34. Mailing Address:								
	City		**State**		**ZIP**		**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
( ) -		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Owen Orozco	**41. Title:**	Graduate Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(737 **)** 309-4739		**( ) -**	oorozco@halff.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Austin Public Library	**Job Title:**	Facilities Process Manager
Name *(In Print):*	Cody Scott	**Phone:**	**(** 512 **)** 696- **2537**
Signature:	Cody Scott Digitally signed by Cody Scott Date: 2024.07.03 13:47:39 -05'00'	**Date:**	7/3/24

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

07/19/2024

HAMPTON BRANCH LIBRARY
PARKING LOT EXPANSION

NOTES:

1. 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 AND DEVELOPMENT REVIEW DEPARTMENT.
2. APPROVAL OF THIS SITE PLAN DOES NOT INCLUDE BUILDING AND FIRE CODE APPROVAL, NOR BUILDING PERMIT APPROVAL.
3. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.
4. ALL SIGNS MUST COMPLY WITH THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE (CHAPTER 25-10).
5. ADDITIONAL ELECTRIC EASEMENTS MAY BE REQUIRED AT A LATER DATE.
6. WATER AND WASTE WATER SERVICES WILL BE PROVIDED BY THE CITY OF AUSTIN.
7. FOR DRIVEWAY CONSTRUCTION: THE OWNER IS RESPONSIBLE FOR ALL COSTS FOR RELOCATION OF / OR DAMAGE TO UTILITIES.
8. FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, A R..O.W. EXCAVATION PERMIT IS REQUIRED.
9. THIS PROJECT IS LOCATED WITHIN THE WILLIAMSON CREEK WATERSHED CLASSIFIED AS SUBURBAN WATERSHED.
10. A PORTION OF THIS TRACT IS WITHIN THE BOUNDARIES OF THE 100 YEAR FLOOD PLAIN OF ANY WATERWAY THAT IS WITHIN THE LIMITS OF STUDY OF THE FEDERAL FLOOD INSURANCE ADMINISTRATION (FIRM), PANEL 580 OF 730 AS PER FEMA MAP NUMBER 48453C0580H DATED SEPTEMBER 26, 2008. THE SITE IS LOCATED IN THE EDWARD'S AQUIFER RECHARGE ZONE.
11. DETENTION REQUIREMENTS FOR THIS SITE PLAN ARE WAIVED BASED ON THE DETENTION WAIVER WMS-95-041-W GRANTED IN ASSOCIATION WITH THE SITE PLAN SPC-94-0459C ON FEBRUARY 24, 1995, BY THE CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION, STORMWATER MANAGEMENT DIVISION. REFER TO THE DETENTION WAIVER FOR CONDITIONS OF PARTICIPATION.
12. ALL PROPOSED IMPROVEMENTS ARE ON PRIVATE PROPERTY AND OUTSIDE OF RIGHT-OF-WAY. A TEMPORARY TRAFFIC CONTROL PLAN (TCP) IS NOT REQUIRED.
13. IF AT ANY TIME DURING CONSTRUCTION OF THIS PROJECT AN UNDERGROUND STORAGE TANK (UST) IS FOUND, CONSTRUCTION IN THAT AREA MUST STOP UNTIL A CITY OF AUSTIN UST CONSTRUCTION PERMIT IS APPLIED FOR AND APPROVED. ANY UST REMOVAL WORK MUST BE CONDUCTED BY A UST CONTRACTOR THAT IS REGISTERED WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). CONTACT ELIZABETH SIMMONS AT ELIZABETH.SIMMONS@AUSTINTEXAS.GOV FOR FURTHER CLARIFICATION.
14. THE ORIGINALLY CONSTRUCTED WATER QUALITY POND WITH THE SITE PLAN SPC-94-0459C WAS SIZED TO TREAT THE ADDITIONAL IMPERVIOUS COVER PROPOSED IN THE CURRENT PARKING LOT EXPANSION PROJECT. NO ADDITIONAL WATER QUALITY IMPROVEMENTS ARE PROPOSED.

CORRECTIONS RECORD

NO	DESCRIPTION	BY	REVISE (R) ADD (D) VOID (V) SHEET NO.'s	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMPV. COVER (sq.ft.)	TOTAL SITE IMPV. COVER (sq.ft.) %	CITY OF AUSTIN APPROVAL / DATE

COA GRID: C18, D18

LOCATION MAP

PROJECT LOCATION

MAPSCO: 642F, 642G

N.T.S.

5125 CONVICT HILL RD.
AUSTIN TX 78749

WATER PRESSURE ZONE: SOUTHWEST A

NOT APPLICABLE
AULCC NUMBER

PROJECT INFORMATION:

STREET ADDRESS:
5125 CONVICT HILL RD
AUSTIN, TX 78749

CLIENT/SPONSOR:
CITY OF AUSTIN
AUSTIN PUBLIC LIBRARY
635 N PLEASANT VALLEY DRIVE
AUSTIN, TEXAS 78742

CONTACT:
JAMES FOSTER
PHONE: (512) 839-5333
FAX: (___) ___-____
EMAIL: james.foster2@austintexas.gov

PROJECT MANAGEMENT:
CITY OF AUSTIN
CAPITAL DELIVERY SERVICES
6800 BURLESON ROAD,
BUILDING 312, SUITE 200
AUSTIN, TEXAS 78744

CONTACT:
CRAIG RUSSELL
PHONE: (512) 680-8373
FAX: (___) ___-____
EMAIL: craig.russell@austintexas.gov

PREPARED & SUBMITTED FOR APPROVAL BY:

STATE OF TEXAS
ZHIPENG XING, P.E.
127763
LICENSED
PROFESSIONAL ENGINEER
7/19/2024

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

CIVIL ENGINEER:
ZHIPENG XING, P.E.
PHONE: (512) 777-4641
FAX: (512) 252-8141
EMAIL: ZXING@HALFF.COM

MEP ENGINEER:
ENCOTECH ENGINEERING CONSULTANTS
ADDRESS: 8500 BLUFFSTONE COVE,
SUITE B-103 | AUSTIN, TX 78759
PHONE: (512) 338-1101

REVIEWED BY:

PUBLIC WORKS DEPARTMENT (PMD PM) DATE

PUBLIC WORKS DEPARTMENT (ESD DM) DATE

AUSTIN WATER DATE

AUSTIN TRANSPORTATION DEPARTMENT DATE

AUSTIN FIRE DEPARTMENT DATE

TEXAS DEPARTMENT OF TRANSPORTATION DATE

APPROVED BY:

DEVELOPMENT SERVICES DEPARTMENT DATE

[NUMBER]
SITE PLAN / DEVELOPMENT PERMIT NUMBER DATE

SITE PLAN APPROVAL SHEET ___ OF ___ TOT
FILE NUMBER _____ APPLICATION DATE _____
APPROVED BY COMMISSION ON _____ UNDER SECTION _____
_____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) _____
CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A) _____
DWPZ _____ DDZ _____

_____
DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____
REV. 1 _____ CORRECTION 1 _____
REV. 2 _____ CORRECTION 2 _____
REV. 3 _____ CORRECTION 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

HAMPTON BRANCH LIBRARY
PARKING LOT EXPANSION

CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

GENERAL CONSTRUCTION NOTES:

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. CONTRACTOR SHALL CALL TEXAS 811 (811 OR 1-800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
3. CONTRACTOR SHALL NOTIFY THE CITY OF AUSTIN – SITE & SUBDIVISION DIVISION TO SUBMIT REQUIRED DOCUMENTATION, PAY CONSTRUCTION INSPECTION FEES, AND TO SCHEDULE THE REQUIRED SITE AND SUBDIVISION PRE-CONSTRUCTION MEETING. THIS MEETING MUST BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE R.O.W. OR PUBLIC EASEMENTS. PLEASE VISIT HTTP://AUSTINTEXAS.GOV/PAGE/COMMERCIAL-SITE-AND-SUBDIVISION-INSPECTIONS FOR A LIST OF SUBMITTAL REQUIREMENTS, INFORMATION CONCERNING FEES, AND CONTACT INFORMATION.
4. FOR SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH, A NOTE MUST BE ADDED STATING: "ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION." (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN TEXAS.)
5. ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMENTS.
6. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO THE FOLLOWING, THE ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE, FILTRATION AND DETENTION FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS:
   - RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE DEVELOPMENT SERVICES DEPARTMENT (INSIDE THE CITY LIMITS); OR
   - INSTALLATION OF AN ELECTRIC OR WATER METER (IN THE FIVE-MILE ETJ)

ORDINANCE REQUIREMENTS

ORDINANCE REQUIREMENTS

1. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE A SITE PLAN AMENDMENT AND APPROVAL FROM THE DEVELOPMENT SERVICES DEPARTMENT.
2. APPROVAL OF THIS SITE PLAN DOES NOT INCLUDE BUILDING CODE APPROVAL; FIRE CODE APPROVAL; OR BUILDING, DEMOLITION, OR RELOCATION PERMITS APPROVAL. A CITY DEMOLITION OR RELOCATION PERMIT CAN ONLY BE ISSUED ONCE THE HISTORIC REVIEW PROCESS IS COMPLETED.
3. ALL SIGNS MUST COMPLY WITH THE REQUIREMENTS OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.
4. THE OWNER IS RESPONSIBLE FOR ALL COSTS OF RELOCATION OF, OR DAMAGE TO, UTILITIES.
5. ADDITIONAL ELECTRIC EASEMENTS MAY BE REQUIRED AT A LATER DATE.
6. A SITE DEVELOPMENT PERMIT MUST BE ISSUED PRIOR TO AN APPLICATION FOR BUILDING PERMIT FOR NON-CONSOLIDATED OR LAND USE COMMISSION APPROVED SITE PLANS.
7. WATER AND WASTEWATER SERVICE WILL BE PROVIDED BY THE CITY OF AUSTIN — OR IDENTIFY THE SERVICE PROVIDER IF OTHER THAN THE CITY OF AUSTIN.
8. NO CERTIFICATE OF OCCUPANCY MAY BE ISSUED FOR THE PROPOSED RESIDENTIAL CONDOMINIUM PROJECT UNTIL THE OWNER OR OWNERS OF THE PROPERTY HAVE COMPLIED WITH CHAPTER 81 AND 82 OF THE PROPERTY CODE OF THE STATE OF TEXAS OR ANY OTHER STATUTES ENACTED BY THE STATE CONCERNING CONDOMINIUMS.
9. FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, A R.O.W. EXCAVATION PERMIT IS REQUIRED.

COMPATIBILITY

1. HIGHLY REFLECTIVE MATERIALS WILL NOT BE USED. MATERIALS MAY NOT EXCEED 20% REFLECTIVITY. THIS REQUIREMENT SHALL NOT APPLY TO SOLAR PANELS OR TO COPPER OR PAINTED METAL ROOFS.
2. THE NOISE LEVEL OF MECHANICAL EQUIPMENT WILL NOT EXCEED 70 D.B.A. AT THE PROPERTY LINE ADJACENT TO RESIDENTIAL USES.
3. ALL EXTERIOR LIGHTING SHALL BE HOODED OR SHIELDED FROM THE VIEW OF ADJACENT RESIDENTIAL USES, OR PROPERTY ZONED RESIDENTIAL.
4. EXTERIOR LIGHTING ABOVE THE SECOND FLOOR IS PROHIBITED WHEN ADJACENT TO RESIDENTIAL PROPERTY.
5. ALL DUMPSTERS AND ANY PERMANENTLY PLACED REFUSE RECEPTACLES WILL BE LOCATED AT A MINIMUM OF TWENTY (20) FEET FROM A PROPERTY USED OR ZONED AS SF-5 OR MORE RESTRICTIVE.

FIRE DEPARTMENT

1. THE AUSTIN FIRE DEPARTMENT REQUIRES ASPHALT OR CONCRETE PAVEMENT PRIOR TO CONSTRUCTION AS AN "ALL-WEATHER DRIVING SURFACE."
2. HYDRANTS MUST BE INSTALLED WITH THE CENTER OF THE FOUR-INCH OPENING AT LEAST 18 INCHES ABOVE FINISHED GRADE. THE FOUR-INCH OPENING MUST FACE THE DRIVEWAY OR STREET WITH THREE- TO SIX-FOOT SETBACKS FROM THE CURBLINE(S). NO OBSTRUCTION IS ALLOWED WITHIN THREE FEET OF ANY HYDRANT AND THE FOUR-INCH OPENING MUST BE TOTALLY UNOBSTRUCTED FROM THE STREET.
3. TIMING OF INSTALLATION: WHEN FIRE PROTECTION FACILITIES ARE INSTALLED BY THE DEVELOPER, SUCH FACILITIES SHALL INCLUDE ALL SURFACE ACCESS ROADS WHICH SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION. WHERE ALTERNATIVE METHODS OF PROTECTION, AS APPROVED BY THE FIRE CHIEF, ARE PROVIDED, THE ABOVE MAY BE MODIFIED OR WAIVED.
4. ALL PERVIOUS/DECORATIVE PAVING SHALL BE ENGINEERED AND INSTALLED FOR 80,000 LB. LIVE-VEHICLE LOADS. ANY PERVIOUS/DECORATIVE PAVING WITHIN 100 FEET OF ANY BUILDING MUST BE APPROVED BY THE FIRE DEPARTMENT.
5. COMMERCIAL DUMPSTERS AND CONTAINERS WITH AN INDIVIDUAL CAPACITY OF 1.5 CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN TEN FEET OF OPENINGS, COMBUSTIBLE WALLS, OR COMBUSTIBLE EAVE LINES.
6. FIRE LANES DESIGNATED ON SITE PLAN SHALL BE REGISTERED WITH CITY OF AUSTIN FIRE MARSHAL'S OFFICE AND INSPECTED FOR FINAL APPROVAL.
7. VERTICAL CLEARANCE REQUIRED FOR FIRE APPARATUS IS 14 FEET FOR FULL WIDTH OF ACCESS DRIVE.

STANDARD SEQUENCE OF CONSTRUCTION (APPENDIX P-4)

1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION, INITIATE TREE MITIGATION MEASURES AND CONDUCT "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE).
2. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE DEVELOPMENT SERVICES DEPARTMENT, ENVIRONMENTAL INSPECTION, AT 512-974-2278, 72 HOUR 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 THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. 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. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).
5. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
6. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.
7. IN THE BARTON SPRINGS ZONE, THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR WILL SCHEDULE A MID-CONSTRUCTION CONFERENCE TO COORDINATE CHANGES IN THE CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF THE EROSION CONTROL PLAN AFTER POSSIBLE CONSTRUCTION ALTERATIONS TO THE SITE. PARTICIPANTS SHALL INCLUDE THE CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR AND ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR. THE ANTICIPATED COMPLETION DATE AND FINAL CONSTRUCTION SEQUENCE AND INSPECTION SCHEDULE WILL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR.
8. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE.
9. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
10. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL, SIGNATURE, AND DATE TO THE DEVELOPMENT SERVICES DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
11. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE DEVELOPMENT SERVICES DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING 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.
12. 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. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

ADDITIONAL EROSION CONTROL NOTES FOR BARTON SPRINGS CONTRIBUTING ZONE (APPENDIX P-3)

1. DESIGNATION OF AN ENVIRONMENTAL PROJECT MANAGER WHO IS ON SITE >90% OF THE TIME, WHO IS REQUIRED TO BE AT THE PRECONSTRUCTION AND MID-CONSTRUCTION MEETINGS, AND IS RESPONSIBLE FOR COMPLIANCE ON SITE OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS. THE ENVIRONMENTAL PROJECT MANAGER IS RESPONSIBLE FOR ENSURING COMPLIANCE OF THE CONTROLS DURING THE CONSTRUCTION PERIOD. SHOULD THE PROJECT MANAGER NEED TO BE ABSENT FROM THE SITE FOR AN EXTENDED PERIOD (IN EXCESS OF ONE WEEK), THE ENVIRONMENTAL INSPECTOR WITH THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT SHOULD BE INFORMED OF THE NAME OF A DESIGNATED REPLACEMENT.
2. THE MAXIMUM LENGTH OF TIME BETWEEN CLEARING AND FINAL REVEGETATION OF A PROJECT SHALL NOT EXCEED 18 MONTHS, UNLESS EXTENDED BY THE DIRECTOR OF THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT (THIS DOES NOT AFFECT THE EXPIRATION OF THE SITE PLAN OR BUILDING PERMIT. THIS REQUIREMENT APPLIES TO SITES THAT HAVE SUSPENDED WORK AND ARE EXPERIENCING EROSION CONTROL PROBLEMS DUE TO DISTURBED SOIL CONDITIONS.) DISTURBED AREAS MUST BE MAINTAINED TO PREVENT EROSION AND SEDIMENT LOADING OF ANY WATERWAYS OR DRAINAGE FACILITIES.
3. IT IS A VIOLATION OF THE CODE AND THIS DEVELOPMENT PERMIT TO ALLOW SEDIMENT FROM A CONSTRUCTION SITE TO ENTER A CLASSIFIED WATERWAY DUE TO A FAILURE TO MAINTAIN THE REQUIRED EROSION AND SEDIMENTATION CONTROLS OR TO FOLLOW THE APPROVED CONSTRUCTION SEQUENCE.

APPENDIX O - IRRIGATION NOTES

AUTOMATIC IRRIGATION SYSTEMS SHALL COMPLY WITH TCEQ CHAPTER 344, AS WELL AS THE FOLLOWING REQUIREMENTS:

1. THESE REQUIREMENTS SHALL BE NOTED ON THE SITE DEVELOPMENT PERMIT AND SHALL BE IMPLEMENTED AS PART OF THE LANDSCAPE INSPECTION:
   A. THE SYSTEM MUST PROVIDE A MOISTURE LEVEL ADEQUATE TO SUSTAIN GROWTH OF THE PLANT MATERIALS;
   B. THE SYSTEM DOES NOT INCLUDE SPRAY IRRIGATION ON AREAS LESS THAN TEN (10) FEET WIDE (SUCH AS MEDIANS, BUFFER STRIPS, AND PARKING LOT ISLANDS);
   C. CIRCUIT REMOTE CONTROL VALVES HAVE ADJUSTABLE FLOW CONTROLS;
   D. SERVICEABLE IN-HEAD CHECK VALVES AREA ADJACENT TO PAVED AREAS WHERE ELEVATION DIFFERENCES MAY CAUSE LOW HEAD DRAINAGE;
   E. A MASTER VALVE INSTALLED ON THE DISCHARGE SIDE OF THE BACKFLOW PREVENTER;
   F. ABOVE-GROUND IRRIGATION EMISSION DEVICES ARE SET BACK AT LEAST SIX (6) INCHES FROM IMPERVIOUS SURFACES;
   G. AN AUTOMATIC RAIN SHUT-OFF DEVICE SHUTS OFF THE IRRIGATION SYSTEM AUTOMATICALLY AFTER MORE THAN A ONE-HALF INCH (½") RAINFALL; AND
   H. NEWLY PLANTED TREES SHALL HAVE PERMANENT IRRIGATION CONSISTING OF DRIP OR BUBBLERS.
2. THE IRRIGATION INSTALLER SHALL DEVELOP AND PROVIDE AN AS-BUILT DESIGN PLAN TO THE CITY AT THE TIME THE FINAL IRRIGATION INSPECTION IS PERFORMED:
   A. UNLESS FISCAL SECURITY IS PROVIDED TO THE CITY FOR THE INSTALLATION OF THE SYSTEM, IT MUST BE OPERATIONAL AT THE TIME OF THE FINAL LANDSCAPE INSPECTION.
3. THE IRRIGATION INSTALLER SHALL ALSO PROVIDE EXHIBITS TO BE PERMANENTLY INSTALLED INSIDE OR ATTACHED TO THE IRRIGATION CONTROLLER, INCLUDING:
   A. A LAMINATED COPY OF THE WATER BUDGET CONTAINING ZONE NUMBERS, PRECIPITATION RATE, GALLONS PER MINUTE AND THE LOCATION OF THE ISOLATION VALVE; AND AN AS BUILT PLAN.
4. THE IRRIGATION INSTALLER SHALL PROVIDE A REPORT TO THE CITY ON A FORM PROVIDED BY AUSTIN WATER CERTIFYING COMPLIANCE WITH SUBSECTION 1. WHEN THE FINAL PLUMBING INSPECTION IS PERFORMED BY THE CITY.

SITE PLAN APPROVAL SHEET _____ OF _____
FILE NUMBER _____ APPLICATION DATE _____
APPROVED BY COMMISSION ON _____ UNDER SECTION _____
_____ OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) _____
CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A) _____
DWPZ _____ DDZ _____

_____
DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____
REV. 1 _____ CORRECTION 1 _____
REV. 2 _____ CORRECTION 2 _____
REV. 3 _____ CORRECTION 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
ZHIPENG XING, P.E.
127768
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ZHIPENG XING, P.E. LIC. # 127768
7/19/2024
I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY
PARKING LOT EXPANSION

GENERAL NOTES

CITY OF AUSTIN
FOUNDED 1839

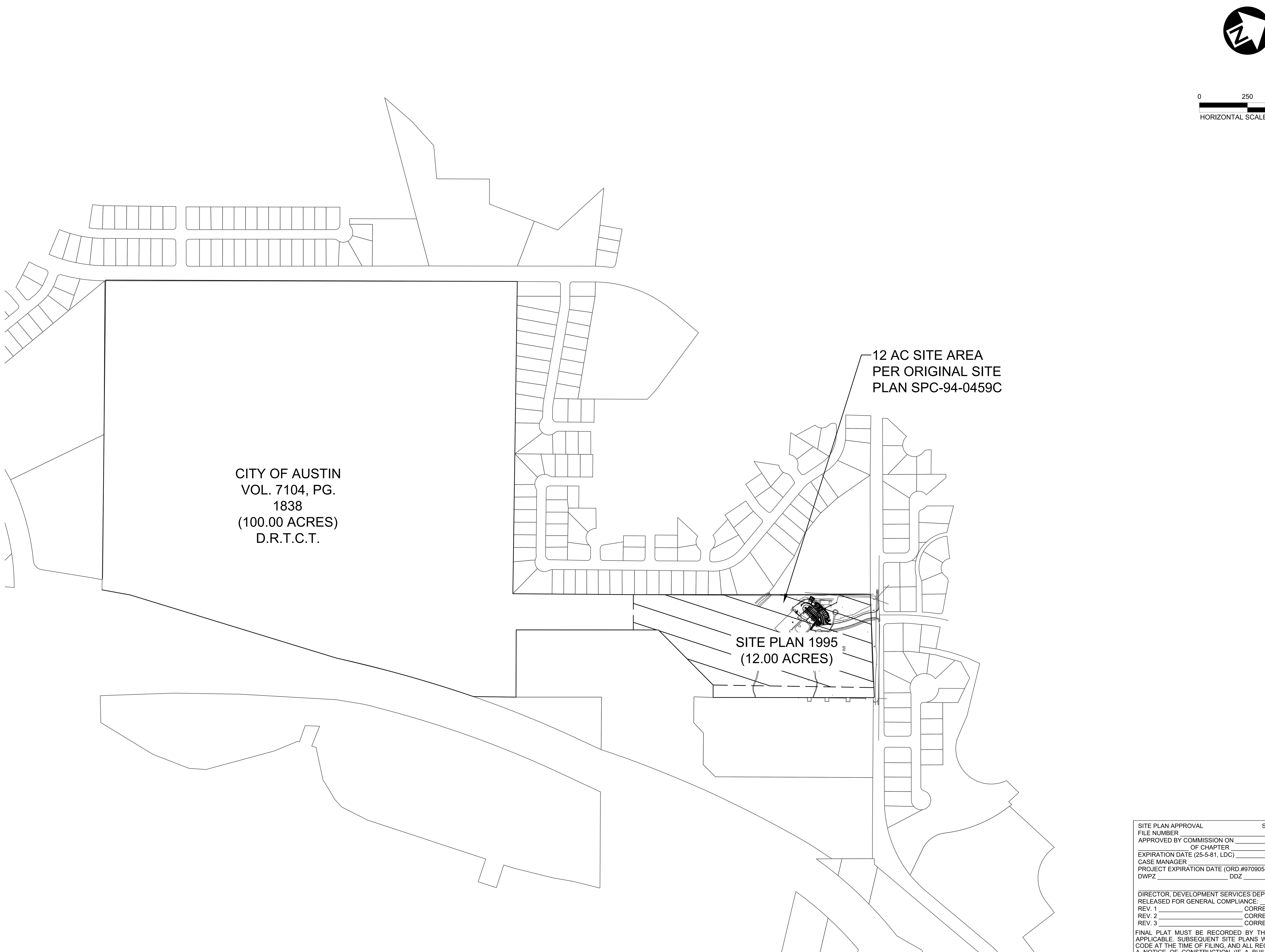
NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	RE	07/19/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

C101

SHEET 2 OF 18

A:\#2000S\42897\000\PW\CAD\SHEETS\HAMP-C-GN-NOTE_SD.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
7/19/2024 11:15 AM
OWEN OROZCO



REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
ZHIPENG XING, P.E.
127763
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ZHIPENG XING, P.E. LIC. # 127763

7/19/2024

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY PARKING LOT EXPANSION

SITE BOUNDARY MAP

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	~~RE~~	07/~~19~~/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

C102

SHEET 3 OF 18

SITE PLAN APPROVAL SHEET ____ OF ____
FILE NUMBER ____ APPLICATION DATE ____
APPROVED BY COMMISSION ON ____ UNDER SECTION ____
____ OF CHAPTER ____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) ____
CASE MANAGER ____
PROJECT EXPIRATION DATE (ORD.#970905-A) ____
DWPZ ____ DDZ ____

____
DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: ____ ZONING ____
REV. 1 ____ CORRECTION 1 ____
REV. 2 ____ CORRECTION 2 ____
REV. 3 ____ CORRECTION 3 ____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

A:\42000s\42887\003\PW\CADD\SHEETS\HAMP-G-GN-OVRV.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
7/19/2024 11:15 AM
OWEN OROZCO

DEMO:
21 LF CONC
CURB AND GUTTER

DEMO:
331 SY
ASPHALT PAVEMENT

DEMO:
208 LF CONC
CURB AND GUTTER

SAWCUT LINE

EXISTING PLAQUE TO BE RELOCATED;
CONTRACTOR TO COORDINATE
WITH OWNER ON NEW LOCATION

DEMO:
54 LF CONC
CURB AND GUTTER

SAWCUT LINE

DEMO:
76 LF CONC
CURB AND GUTTER

0 20 40
HORIZONTAL SCALE IN FEET

LEGEND

- EXISTING FEATURES
- CURB AND GUTTER TO BE REMOVED
- SAWCUT LINE
- PAVEMENT TO BE REMOVED

NOTE:
CONTRACTOR TO REMOVE IRRIGATION IN THE AFFECTED ISLAND AND REPLACE WITH NEW IRRIGATION SYSTEM ONCE THE NEW PARKING LOT CONSTRUCTION IS COMPLETE.

SITE PLAN APPROVAL SHEET ____ OF ____
FILE NUMBER ____ APPLICATION DATE ____
APPROVED BY COMMISSION ON ____ UNDER SECTION ____
____ OF CHAPTER ____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) ____
CASE MANAGER ____
PROJECT EXPIRATION DATE (ORD.#970905-A) ____
DWPZ ____ DDZ ____

DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: ____ ZONING ____
REV. 1 ____ CORRECTION 1 ____
REV. 2 ____ CORRECTION 2 ____
REV. 3 ____ CORRECTION 3 ____

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REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
ZHIPENG XING, P.E.
127763
LICENSED
PROFESSIONAL ENGINEER

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7/19/2024
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CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY PARKING LOT EXPANSION

EXISTING CONDITIONS & DEMOLITION PLAN

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	RE	07/19/24

halff
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AUSTIN, TEXAS 78735
(737) 270-8700

C103

SHEET 4 OF 18

A:\4200\S\42897\00\PW\CADD\SHEETS\HAMP-CS-SP-DEMO.DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
7/19/2024 11:15 AM
OWEN OROZCO

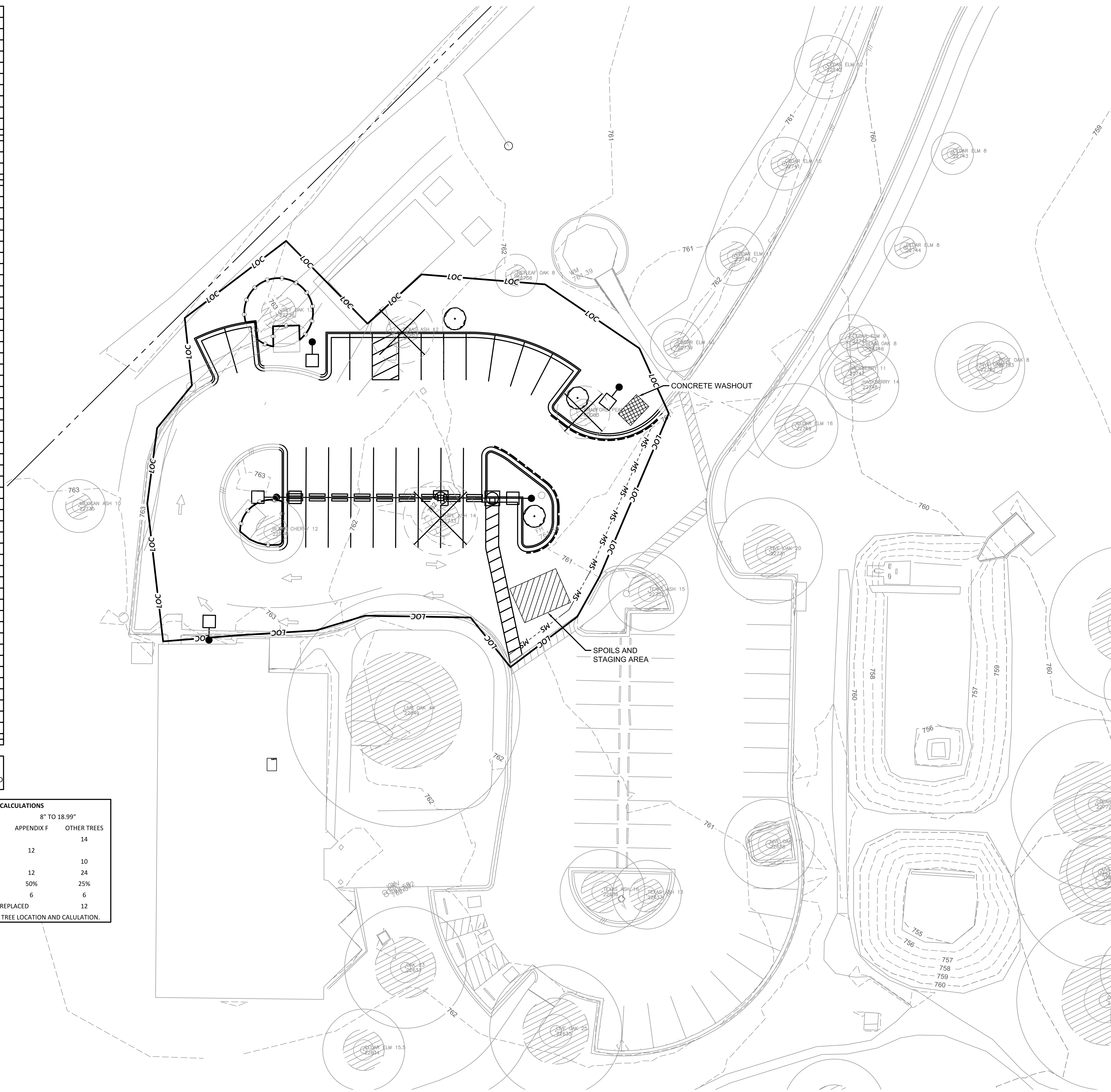
TREE LIST	
TAG NO.	SIZE/TYPE
22633	23" OAK (P)
22634	15.5" CEDAR ELM
22635	25" LIVE OAK (H)
22636	16" TEXAS ASH
22637	13" TEXAS ASH
22638	17" LIVE OAK
22649	44" LIVE OAK (H)
22731	20" LIVE OAK (P)
22732	15" TEXAS ASH
~~22733~~	~~14" WHITE ASH (R)~~
22734	12" BLACK CHERRY
22735	10" MEXICAN ASH
22736	13" GREY OAK
~~22737~~	~~12" TEXAS ASH (R)~~
22738	8" NETLEAF OAK
22739	10" CEDAR ELM
22740	11" CEDAR ELM
22741	10" CEDAR ELM
22742	12" CEDAR ELM
22743	8" CEDAR ELM
22744	8" CEDAR ELM
22745	9" CEDAR ELM
22746	8" LIVE OAK
22747	11" HACKBERRY
22748	14" HACKBERRY
22749	16" CEDAR ELM
22752	17" LIVE OAK
22753	8" POST OAK
22754	14" LIVE OAK
22755	41.5" CEDAR (P)
22756	18" CEDAR
22757	23" CEDAR (P)
22758	18" LIVE OAK
22759	12" CEDAR
22760	14" CEDAR
22761	26.5" CEDAR (P)
22762	20" LIVE OAK (P)
22763	21" CEDAR (P)
22764	14" LIVE OAK
22765	16" CEDAR
22766	9" CEDAR
22767	14" CEDAR
22768	8" CEDAR
22769	29.5" LIVE OAK (H)
22770	10" CEDAR
22771	9" LIVE OAK
22772	32" CEDAR (P)
22773	13" LIVE OAK
22774	33.5" LIVE OAK (H)
22775	23.5" CEDAR (P)
22776	13.5" CEDAR
22777	34" CEDAR (P)
22778	8" OAK
22779	31" CEDAR (P)
22780	29" CEDAR (P)
22781	17.5" CEDAR
22782	17.5" CEDAR
22783	8" CEDAR
22785	10" LIVE OAK
22786	12" LIVE OAK
22787	13" LIVE OAK
22788	22" LIVE OAK (P)
22789	19.5" CEDAR (P)
~~60003~~	~~10" BRADFORD PEAR (R)~~

H=HERITAGE TREE
P=PROTECTED TREE
R=TREE TO BE REMOVED

TREE REPLACEMENT CALCULATIONS

		8" TO 18.99"	
NUMBER	SPECIES	APPENDIX F	OTHER TREES
22733	WHITE ASH		14
22737	TEXAS ASH	12	
60003	BRADFORD PEAR		10
TOTAL		12	24
INCHES TO BE REPLACED		50%	25%
		6	6
TOTAL MITIGATION INCHES TO BE REPLACED			12

SEE SITE PLAN SHEET FOR REPLACEMENT TREE LOCATION AND CALULATION.



LEGEND

—LOC—	LIMITS OF CONSTRUCTION
- -MS- - -MS-	MULCH SOCK
—o—o—o—o—	TREE PROTECTION
——	PROPOSED FEATURES
(hatch)	SPOILS AND STAGING AREA
(cross-hatch)	CONCRETE WASHOUT
000	EXISTING TREES (TO REMAIN)
000	EXISTING TREES (TO BE REMOVED)

NOTES:

1. THE 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.
2. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(D), OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
3. SILT FENCE TYPE AND INSTALLATION SHALL COMPLY WITH ECM 1.4.2(G).
4. ALL DISTURBED AREAS SHALL BE REVEGETATED WITH SOD PER COA STANDARD SPEC 602S. ALL DISTURBED AREAS WITH SLOPES 5:1 OR STEEPER, WHICH ARE NOT ARMORED OTHERWISE, SHALL HAVE A SOIL RETENTION BLANKET (EXCELSIOR II OR APPROVED EQUAL) INSTALLED TO ASSIST WITH REVEGETATION.
5. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGATION, MULCH, TARP OR REVEGETATION MATTING. (ECM 1.4.4.8.3, SECTION 5, I.)
6. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. (ECM 1.4.4.D.4)
7. THE DISTURBED AREAS WITHIN THIS PROJECT SHALL BE REVEGETATED AND ALL PERMANENT EROSION/SEDIMENTATION CONTROLS COMPLETED PRIOR TO THE RELEASE OF FISCAL SECURITY FOR THE PROJECT.
8. SEE SHEET C101 FOR CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL (ECM) APPENDIX NOTES
9. CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY SEDIMENT TRANSPORTED FROM THE LOC TO THE OFFSITE DETENTION/WATER QUALITY POND.
10. FOR THE EXISTING TREES THAT REMAIN ON SITE: (A) MINIMUM OF 50% OF THE CRZ MUST BE PRESERVED AT NATURAL GRADE WITH NATURAL GROUND COVER, (B) CUT OR FILL IS LIMITED TO 4 INCHES FROM THE 1/2 CRZ TO THE 1/4 CRZ, AND (C) NO CUT OR FILL IS PERMITTED WITHIN THE 1/4 CRZ.
11. PER LDC 25-8-323(C), FOR AREAS ON THE SITE THAT ARE TO REMAIN PERVIOUS AFTER DEVELOPMENT, ANY SOILS THAT ARE COMPACTED DURING SITE GRADING AND CONSTRUCTION OPERATIONS MUST BE DECOMPACTED IN COMPLIANCE WITH THE ECM AND IN COMPLIANCE WITH SSM 661S.
12. FINISHED ELEVATION FOR PARKING-LOT ISLANDS, MEDIANS, PENINSULAS, AND SIMILAR LANDSCAPE AREAS MUST BE AT LEAST SIX (6) INCHES BELOW THE FINISHED CURB ELEVATION TO ALLOW FOR PLACEMENT OF SIX (6) INCHES OF TOPSOIL [ECM 1.4.7].

SITE PLAN APPROVAL SHEET ______ OF ______
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DWPZ ______ DDZ ______

DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
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REV. 1 ______ CORRECTION 1 ______
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CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTON BRANCH LIBRARY PARKING LOT EXPANSION

ESC & TREE PROTECTION PLAN

A:\42000S\42587\003\PW\CADD\SHEETS\HAMP-C-ESC-PLAN.DWG, ---, COA_PLOT_STYLES.STB

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	~~RE~~	07/~~10~~/24

7/19/2024 11:46 AM

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C200

SHEET 5 OF 18

OWEN OROZCO

CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

ENVIRONMENTAL PROTECTION NOTES

IMPORTANT NOTE!!! NO ENVIRONMENTAL DEVICES SHALL BE REMOVED DURING CONSTRUCTION AT ANY TIME PRIOR TO APPROVAL BY A PLANNING AND DEVELOPMENT REVIEW REPRESENTATIVE. CONTACT PLANNING AND DEVELOPMENT REVIEW DEPARTMENT AT (512) 974-7668.

SITE DISPOSAL

1. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT ALL LOCATIONS USED FOR STORING CONSTRUCTION EQUIPMENT, MATERIALS, AND STOCKPILES OF ANY TYPE WITHIN THE CONSTRUCTION LIMITS SHALL BE APPROVED BY THE ENGINEER. USE OF THE AREA WITHIN THE CONSTRUCTION LIMITS FOR THESE PURPOSES WILL BE RESTRICTED TO THOSE LOCATIONS WHERE DRIVER SIGHT DISTANCE TO BUSINESSES AND SIDE STREET INTERSECTIONS IS NOT OBSTRUCTED AND AT OTHER LOCATIONS WHERE AN UNSIGHTLY APPEARANCE, AS DETERMINED BY THE ENGINEER, WILL NOT EXIST.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL SPOIL MATERIAL FROM THE CONSTRUCTION SITE AT AN APPROVED SPOIL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE, AND SHALL NOTIFY THE INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF THE MATERIAL. THIS ITEM WILL NOT BE PAID FOR DIRECTLY, BUT IT WILL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.

STAGING AREA FOR CONSTRUCTION

1. ALL CONSTRUCTION ACTIVITIES, INCLUDING MATERIAL STORAGE AND STAGING AREA, SHALL BE WITHIN THE CONSTRUCTION LIMITS INDICATED ON THE DRAWINGS. ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION AT THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT REVIEW PRIOR TO USE. ANY ASSOCIATED COST SHALL BE PAID FOR BY THE CONTRACTOR, AND SHALL NOT BE A SEPARATE PAY ITEM, BUT SHALL BE SUBSIDIARY TO OTHER BID ITEMS.

EROSION CONTROL NOTES (APPENDIX P-1)

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE COA ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY COA EV PLAN REVIEWERS AS WELL AS COA EV INSPECTORS.

-- PLAN SHEETS SUBMITTED TO THE CITY OF AUSTIN MUST SHOW THE FOLLOWING:

DIRECTION OF FLOW DURING GRADING OPERATIONS.

LOCATION, DESCRIPTION, AND CALCULATIONS FOR OFF-SITE FLOW DIVERSION STRUCTURES.

AREAS THAT WILL NOT BE DISTURBED; NATURAL FEATURES TO BE PRESERVED.

DELINEATION OF CONTRIBUTING DRAINAGE AREA TO EACH PROPOSED BMP (E.G., SILT FENCE, SEDIMENT BASIN, ETC.)

LOCATION AND TYPE OF E&S BMPS FOR EACH PHASE OF DISTURBANCE.

CALCULATIONS FOR BMPS AS REQUIRED.

LOCATION AND DESCRIPTION OF TEMPORARY STABILIZATION MEASURES.

LOCATION OF ON-SITE SPOILS, DESCRIPTION OF HANDLING AND DISPOSAL OF BORROW MATERIALS, AND DESCRIPTION OF ON-SITE PERMANENT SPOILS DISPOSAL AREAS, INCLUDING SIZE, DEPTH OF FILL AND REVEGETATION PROCEDURES.

DESCRIBE SEQUENCE OF CONSTRUCTION AS IT PERTAINS TO ESC INCLUDING THE FOLLOWING ELEMENTS:

1. INSTALLATION SEQUENCE OF CONTROLS (E.G. PERIMETER CONTROLS, THEN SEDIMENT BASINS, THEN TEMPORARY STABILIZATION, THEN PERMANENT, ETC.)
2. PROJECT PHASING IF REQUIRED (LOC GREATER THAN 25 ACRES)
3. SEQUENCE OF GRADING OPERATIONS AND NOTATION OF TEMPORARY STABILIZATION MEASURES TO BE USED
4. SCHEDULE FOR CONVERTING TEMPORARY BASINS TO PERMANENT WQ CONTROLS
5. SCHEDULE FOR REMOVAL OF TEMPORARY CONTROLS
6. ANTICIPATED MAINTENANCE SCHEDULE FOR TEMPORARY CONTROLS

-- CATEGORIZE EACH BMP UNDER ONE OF THE FOLLOWING AREAS OF BMP ACTIVITY AS DESCRIBED BELOW:

3.1. MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL
3.2. CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT
3.3. STABILIZE SOILS
3.4. PROTECT SLOPES
3.5. PROTECT STORM DRAIN INLETS
3.6. ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS
3.7. RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES
3.8. ESTABLISH STABILIZED CONSTRUCTION EXITS
3.9. ANY ADDITIONAL BMPS

-- NOTE THE LOCATION OF EACH BMP ON YOUR SITE MAP(S).

-- FOR ANY STRUCTURAL BMPS, YOU SHOULD PROVIDE DESIGN SPECIFICATIONS AND DETAILS AND REFER TO THEM.

-- FOR MORE INFORMATION, SEE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL 1.4.

3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. 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 OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT, 974-2278, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE. COA APPROVED ESC PLAN AND TPDES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY COA EV INSPECTOR AT THIS TIME.
5. 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 ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY AUTHORIZED COA STAFF. 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.
6. THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR WITH EITHER A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), CERTIFIED EROSION, SEDIMENT AND STORMWATER- INSPECTOR (CESSWI) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC) CERTIFICATION 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.
7. 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 CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
8. 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 ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION.
9. 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. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.

   - TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN 601S.

   AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.

   - SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL.

THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

TEMPORARY VEGETATIVE STABILIZATION:

1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROP: (WESTERN WHEATGRASS (PASCOPYRUM SMITHII) AT 5.6 POUNDS PER ACRE, OATS (AVENA SATIVA) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN (SECALE CEREALE) AT 45 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED APPLICATION REQUIRING A COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) OR PERENNIAL RYEGRASS (LOLIUM PERENNE). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S.
   A. FERTILIZER SHALL BE APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL CONFORM TO ITEM NO. 606S, FERTILIZER. FERTILIZATION SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT BE APPLIED IN THE CRITICAL WATER QUALITY ZONE.
   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 A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
   D. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATIONS 604S OR 609S.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
100% OR ANY BLEND OF WOOD, CELLULOSE, STRAW, AND/OR COTTON PLANT MATERIAL (EXCEPT NO MULCH SHALL EXCEED 30% PAPER)	70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	0-3 MONTHS	MODERATE SLOPES; FROM FLAT TO 3:1	1,500 TO 2,000 LBS PER ACRE

PERMANENT VEGETATIVE STABILIZATION:

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 BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (½) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS OR NATIVE SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM-SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEMS 604S OR 609S.
   A. FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER. APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED AND MANAGED PROPERTY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IPM COORDINATOR.
   B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.
   C. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE CHAPTER 6-4 (WATER CONSERVATION), AT RATES AND FREQUENCIES DETERMINED BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE AUSTIN WATER UTILITY AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES.
   D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON-NATIVE MIX, AND 95 PERCENT COVERAGE FOR THE NATIVE MIX SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 16 SQUARE FEET.
   E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEMS 604S AND 609S.

TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
BONDED FIBER MATRIX (BFM	80% ORGANIC DEFIBRATED FIBERS / 10% TACKIFIER	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2,500 TO 4,000 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)
FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3,000 TO 4,500 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)

10. DEVELOPER INFORMATION:

    OWNER: CITY OF AUSTIN PUBLIC LIBRARY, JAMES FOSTER

    PHONE #: (512)839-5333

    ADDRESS: 635 N PLEASANT VALLEY DR, AUSTIN, TX 78742

    ENGINEER: HALFF ASSOCIATES, ZHIPENG XING

    PHONE #: (512)777-4641

    ADDRESS: 5113 SOUTHWEST PKWY, SUITE 140, AUSTIN, TX 78735

    PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE: CONTRACTOR

    PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE: CONTRACTOR
11. 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.

NOTES

TREES WILL BE FERTILIZED PRIOR TO ANY CONSTRUCTION ACTIVITY. MATERIALS AND METHODS ARE TO BE APPROVED BY THE CITY ARBORIST, MICHAEL EMBESI AT (512) 974-1876, PRIOR TO APPLICATION.

THE GENERAL CONTRACTOR SHALL SELECT A FERTILIZATION CONTRACTOR AND INSURE COORDINATION WITH THE CITY ARBORIST. WITHIN 7 DAYS AFTER FERTILIZATION IS PERFORMED, THE CONTRACTOR WILL PROVIDE DOCUMENTATION OF WORK PERFORMED TO THE CITY ARBORIST, PLANNING AND DEVELOPMENT REVIEW DEPARTMENT, 505 BARTON SPRINGS ROAD, 4TH FLOOR, AUSTIN, TEXAS, 78704.

ALL PROTECTED SIZE, CLASS 1 TREES WITHIN THE LIMITS OF CONSTRUCTION WHICH ARE INDICATED TO BE PRESERVED (ON THE PLANS) WILL BE FERTILIZED PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES AND AGAIN AFTER THE COMPLETION OF ALL CONSTRUCTION. AREAS TO BE FERTILIZED INCLUDE THE ENTIRE CRITICAL ROOT ZONE OF A TREES AS DEPICTED ON THE CITY APPROVED PLANS. TREES ARE TO BE FERTILIZED VIA SOIL INJECTION METHOD (MINIMUM 100 PSI), USING DOGGETT X-L INJECTO 32-7-7 OR EQUIVALENT AT RECOMMENDED RATES. CONSTRUCTION THAT WILL BE COMPLETED IN LESS THAN 90 DAYS SHOULD USE MATERIAL AT 1/2 RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST.

SPECIAL CONSTRUCTION TECHNIQUES

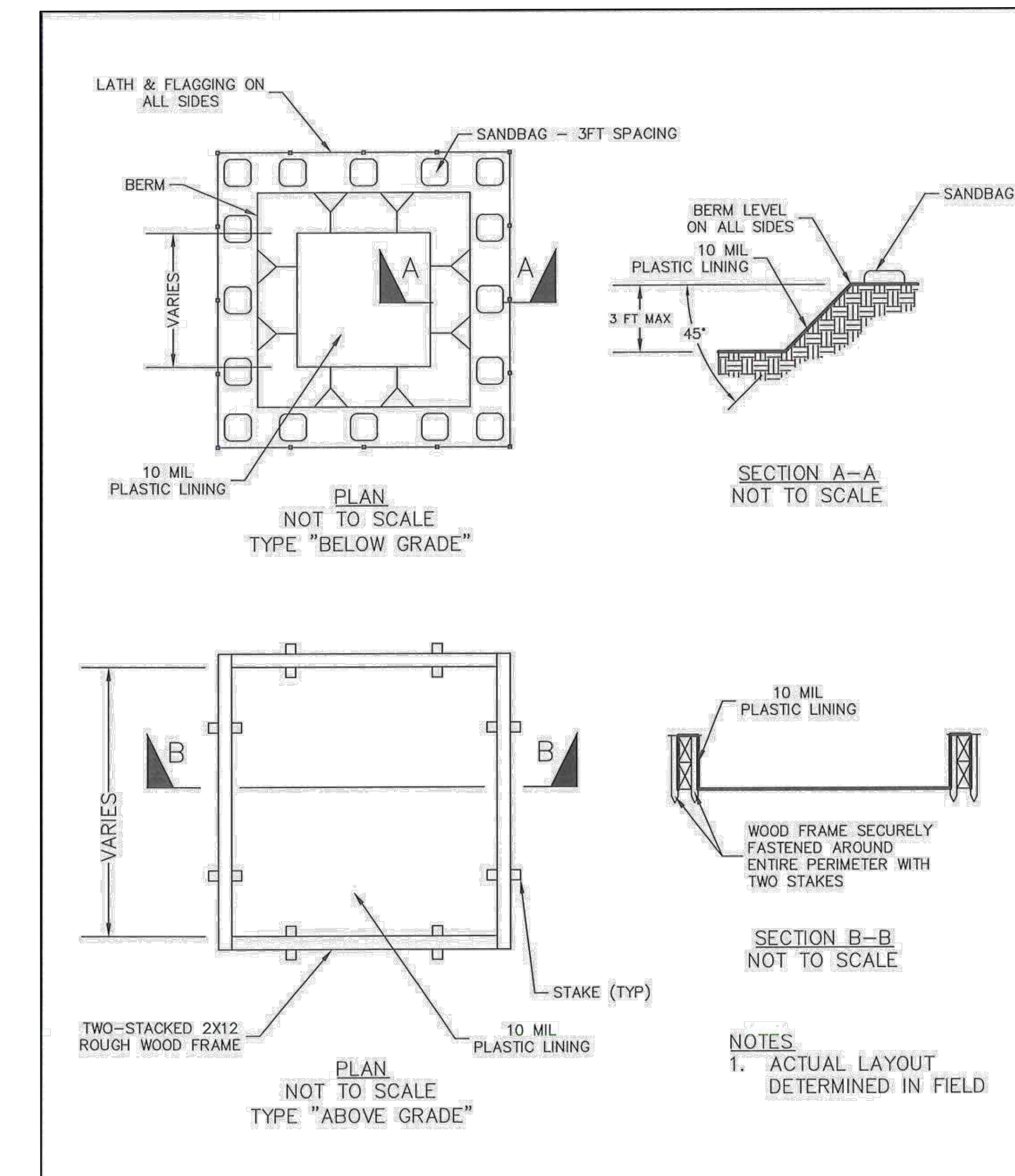
PRIOR TO EXCAVATION WITHIN TREE DRIPLINES, OR THE REMOVAL OF TREES ADJACENT TO OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.

IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING, AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED, COVER THOSE AREAS WITH FOUR (4) INCHES OF MULCH TO BE PRODUCED ON SITE, TO MINIMIZE SOIL COMPACTION.

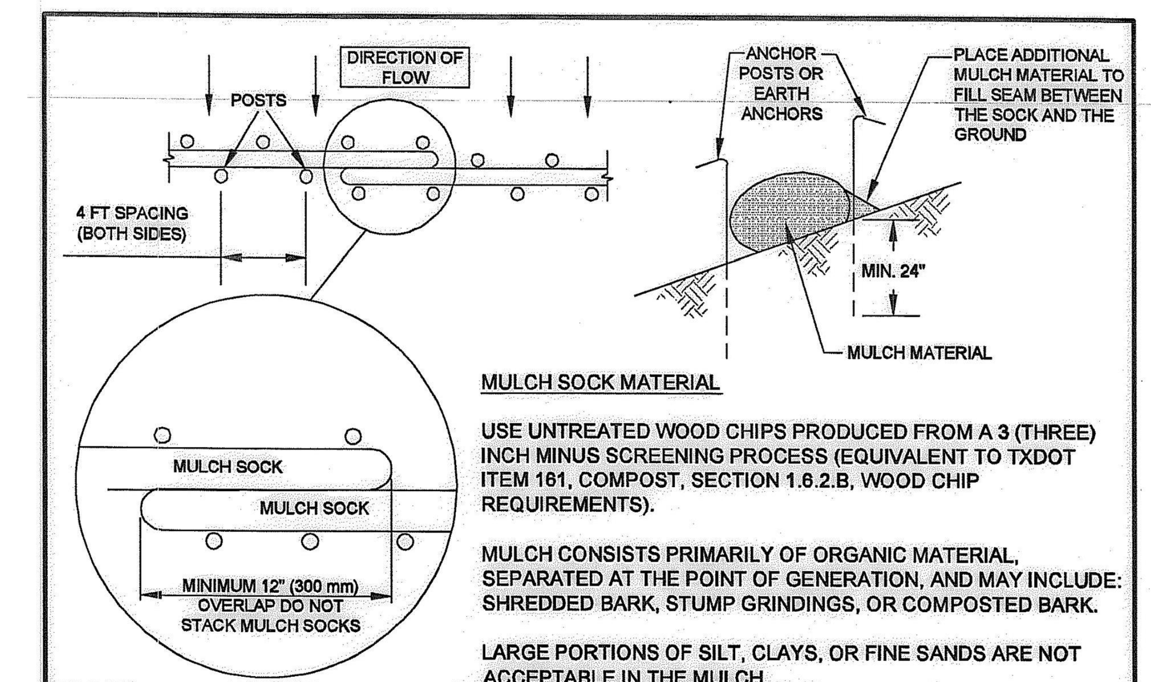
PERFORM ALL GRADING WITHIN CRITICAL ZONE AREAS WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.

WATER ALL TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY AS NECESSARY DURING PERIOD OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER 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 LIME INTO THE SOIL.



CONCRETE WASHOUT DETAIL



MULCH SOCK MATERIAL

USE UNTREATED WOOD CHIPS PRODUCED FROM A 3 (THREE) INCH MINUS SCREENING PROCESS (EQUIVALENT TO TXDOT ITEM 161, COMPOST, SECTION 1.6.2.B, WOOD CHIP REQUIREMENTS).

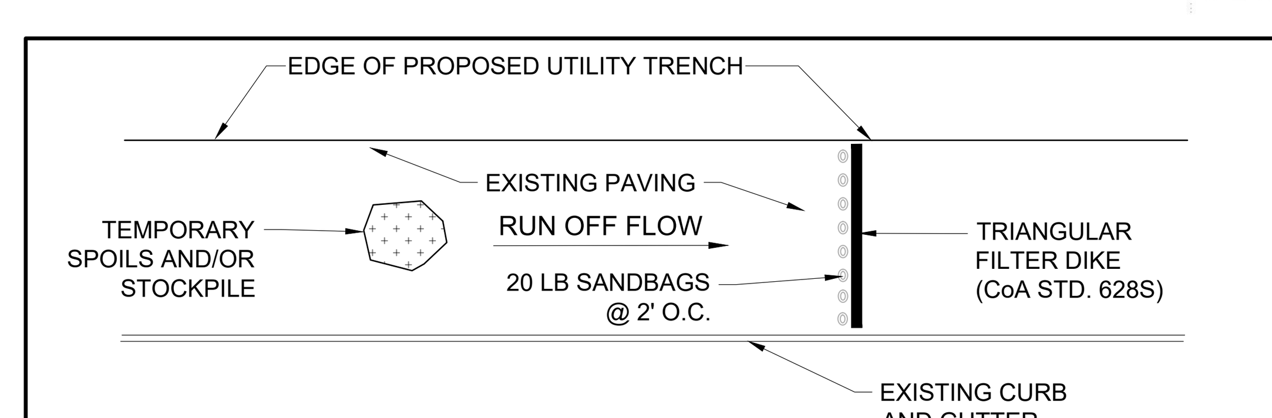
MULCH CONSISTS PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, OR COMPOSTED BARK.

LARGE PORTIONS OF SILT, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MULCH.

NOTES:

1. STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.
2. THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OFMULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).
3. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
4. SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.
5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	MULCH SOCK	
08/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 648S-1



NOTES:

1. THE TEMPORARY SPOILS STORAGE AREA AND STAGING AREA WILL BE LOCATED DIRECTLY ADJACENT TO THE TRENCH AND ON THE PAVEMENT.
2. ANY SPOIL NOT INTENDED TO BE REUSED WILL BE HAULED TO AN APPROVED OR PERMITTED DISPOSAL SITE DAILY.

SITE PLAN APPROVAL SHEET ____ OF ____
FILE NUMBER ____ APPLICATION DATE ____
APPROVED BY COMMISSION ON ____ UNDER SECTION ____
____ OF CHAPTER ____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) ____
CASE MANAGER ____
PROJECT EXPIRATION DATE (ORD.#970905-A) ____
DWPZ ____ DDZ ____

____
DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: ____ ZONING ____
REV. 1 ____ CORRECTION 1 ____
REV. 2 ____ CORRECTION 2 ____
REV. 3 ____ CORRECTION 3 ____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
ZHIPENG XING, P.E.
127763
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ZHIPENG XING, P.E. LIC. # 127763

7/19/2024

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY
PARKING LOT EXPANSION

EROSION & SEDIMENTATION DETAILS

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	~~RE~~	07/~~19~~/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

C201

SHEET 6 OF 18

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CITY OF AUSTIN - STANDARD NOTES
TREE AND NATURAL AREA PROTECTION

1. 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.
3. 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.
4. 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.
5. 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:

   • SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;

   • ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL), OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ABORIST;

   • WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;

   • OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
6. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:

   • WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA DISTURBED;

   • WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZED ROOT DAMAGE);

   • WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING;

   • WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY ARBORIST AT 974-1876 TO DISCUSS ALTERNATIVES.

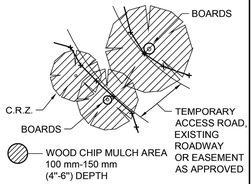
   SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.
7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FT (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
8. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
9. ANY ROOTS 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 ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
10. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
11. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
12. 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 ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
14. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NON-COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

SUPPLEMENTAL TREE PROTECTION NOTES

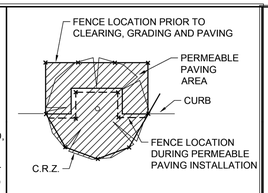
1. ALL TREES 8 INCHES AND LARGER, LOCATED WITHIN THE LIMITS OF CONSTRUCTION OR WITH CANOPIES/CRITICAL ROOT ZONES EXTENDING INTO THE LIMITS OF CONSTRUCTION, HAVE BEEN SURVEYED AND ARE SHOWN ON THIS PLAN. DAMAGE TO, OR REMOVAL OF, TREES SHOWN IN DOCUMENT SET TO BE PRESERVED SHALL CONSTITUTE A VIOLATION OF THE CITY OF AUSTIN (COA) PERMIT.
2. ALL TREE PROTECTION FENCING MUST COMPLY WITH CITY OF AUSTIN REQUIREMENTS AS OUTLINED IN THE ENVIRONMENTAL CRITERIA MANUAL AND AS INDICATED BY STANDARD COA NOTES AND DETAILS INCLUDED WITHIN THIS DOCUMENT SET CONTRACTOR SHALL INSTALL FENCING PRIOR TO PRE-CONSTRUCTION CONFERENCE. MAKE ADJUSTMENTS TO FENCING AS DIRECTED BY THE COA ENVIRONMENTAL INSPECTOR, AND MAINTAIN FENCING UNTIL PROJECT IS COMPLETE.
3. TREE AND LOCATION OF ALL TREE PROTECTION FENCING MUST BE APPROVED IN THE FIELD BY GENERAL PERMIT OFFICE INSPECTOR PRIOR TO CONSTRUCTION.
4. ALL TRENCHING WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PRESERVED WILL BE SAW CUT.
5. CONTACT GENERAL PERMIT OFFICE FOR INSPECTION PRIOR TO ANY PRUNING ACTIVITIES ON TREES IN PROJECT AREA
   *. TREE SURVEY SIZE REQUIREMENTS VARY BY PROJECT AREA AND/OR PROPERTY OWNERSHIP.

OAK WILT PREVENTION NOTES

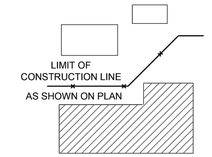
1. PRUNING OF AN EXISTING TREE THAT IS NECESSARY AS PART OF THIS PROJECT SHALL BE CONDUCTED IN ACCORDANCE WITH ANSI A300-1995 STANDARDS, OR LATEST APPROVED EDITION.
2. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS, TO PREVENT BARK TEARS, THE WEIGHT OF BRANCH SHALL BE REMOVED BEFORE MAKING FINAL PRUNING CUT.
3. ALL PRUNING SHALL PRESERVE THE NATURAL CHARACTER OF THE TREE.
4. ONLY COLLAR CUTS ARE ACCEPTABLE. FLUSH CUTS OR STUB CUTS WILL NOT BE ALLOWED.
5. ALL TREE BRANCHES, NECESSARY TO BE REMOVED FOR THE SAFE CONSTRUCTION OF THIS PROJECT, SHALL BE IDENTIFIED BY THE CONTRACTOR AND APPROVED BY THE GENERAL PERMIT OFFICE INSPECTOR PRIOR TO REMOVAL.
6. ALL BRANCHES THAT ARE BROKEN OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED.
7. PRUNING CUTS AND DAMAGED AREAS ON AN OAK TREE SHALL BE PAINTED WITHIN FIVE MINUTES WITH A STANDARD TREE WOUND DRESSING. TREE WOUND DRESSING SHALL BE EITHER TREEKOTE AEROSOL OR TANGLEFOOT PRUNING SEALER (OR APPROVED EQUAL).
8. ANY TREE ROOTS THAT ARE EXPOSED, CUT, OR TORN DURING CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SURROUNDING SOIL. (REFER ALSO TO NUMBER 9 OF THE TREE AND NATURAL AREA PROTECTION NOTES INCLUDED IN THIS PLAN SET).



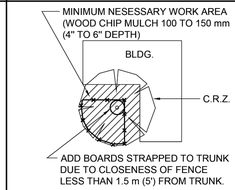
LINEAR CONSTRUCTION THROUGH TREES



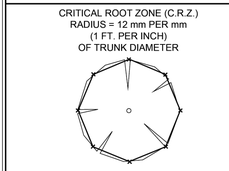
TREES IN PAVING AREA



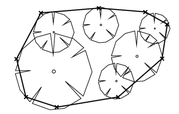
NATURAL AREAS



TREES NEAR CONSTRUCTION ACTIVITY

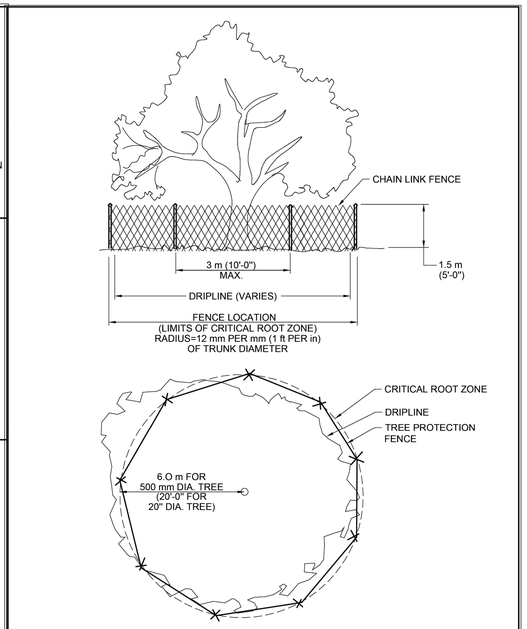


INDIVIDUAL TREE

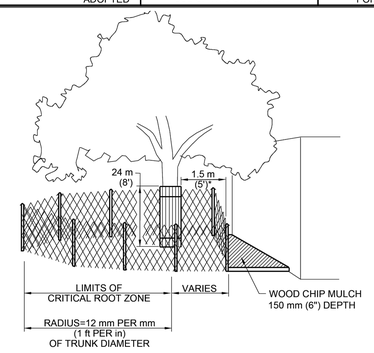


GROUP OF TREES

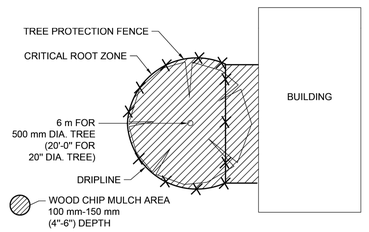
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE LOCATIONS	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-1 1 OF 1



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROPTECTION FENCE TYPE A - CHAIN LINK	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-2 1 OF 1



*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE.
IF LESS THAN 1.5 m (5'), THEN ADD BOARDS STRAPPED TO TRUNK.



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TREE PROTECTION FENCE MODIFIED TYPE A - CHAIN LINK	
RECORD COPY SIGNED BY J. PATRICK MURPHY	*11/15/99* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-4 1 OF 1

SITE PLAN APPROVAL SHEET ____ OF ____
FILE NUMBER ____ APPLICATION DATE ____
APPROVED BY COMMISSION ON ____ UNDER SECTION ____
____ OF CHAPTER ____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) ____
CASE MANAGER ____
PROJECT EXPIRATION DATE (ORD.#970905-A) ____
DWPZ ____ DDZ ____

DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: ____ ZONING ____
REV. 1 ____ CORRECTION 1 ____
REV. 2 ____ CORRECTION 2 ____
REV. 3 ____ CORRECTION 3 ____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

REV. NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
ZHIPENG XING, P.E.
127763
LICENSED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ZHIPENG XING, P.E. LIC. # 127763
7/19/2024

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CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY
PARKING LOT EXPANSION

EROSION & SEDIMENTATION DETAILS

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	~~RE~~	07/~~19~~/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

C202

SHEET 7 OF 18

OWEN OROZCO
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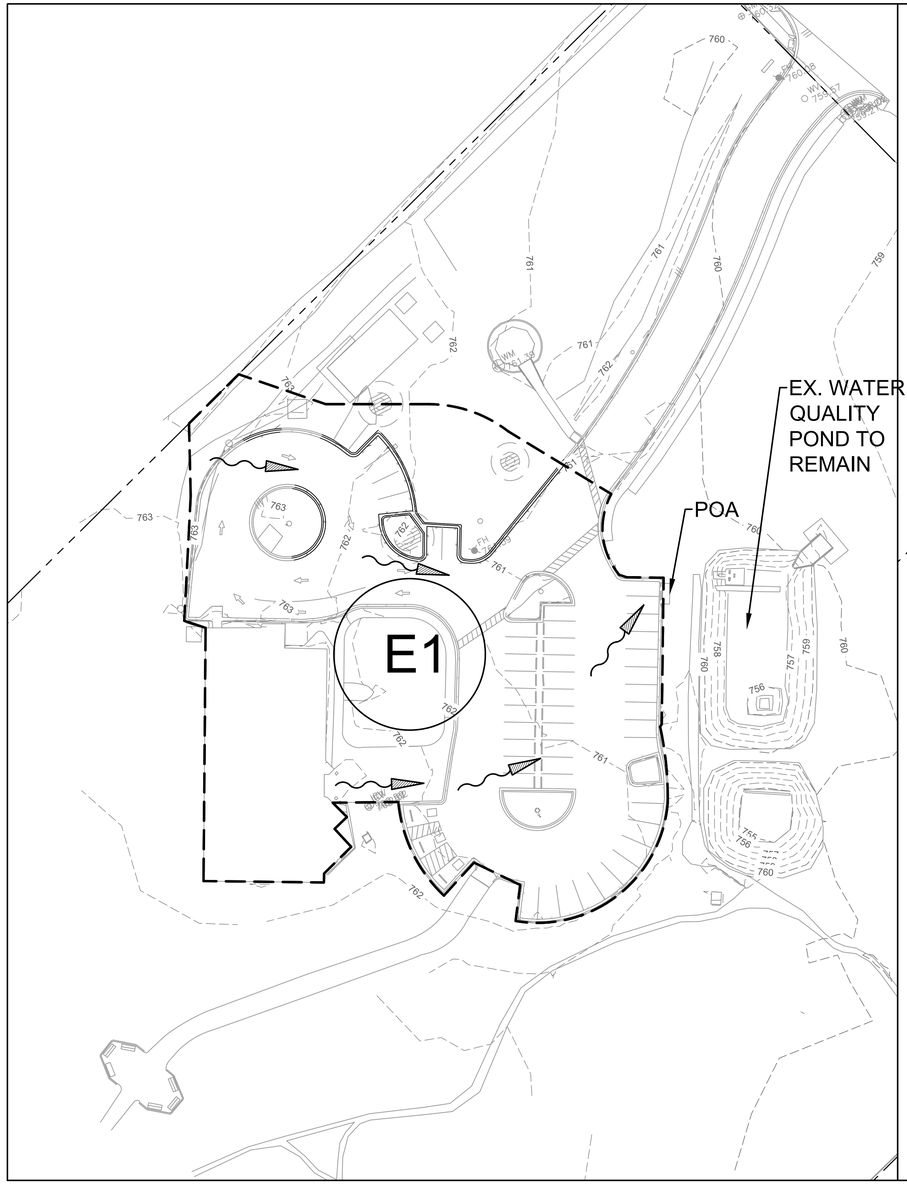
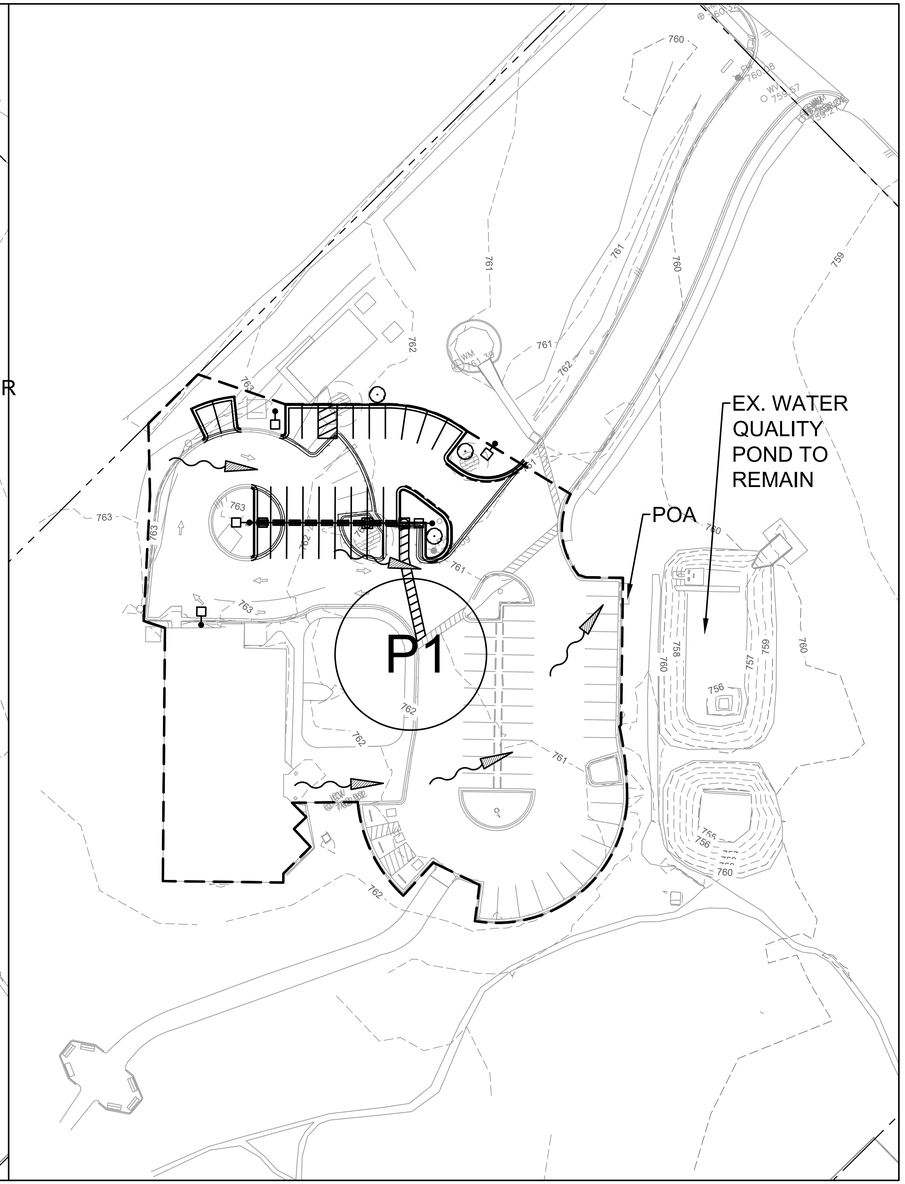


EXISTING DRAINAGE MAP



PROPOSED DRAINAGE MAP

Ex. Site Area	12.00	AC
Total Allowable IC (15%)	1.80	AC
	78,408.00	SF
Total Ex. IC	61,320.00	SF
	1.41	AC
Toal Ex. IC Percentage	11.73%	
Additional Pr. IC	4,882.53	SF
Total Pr. IC	66,202.53	SF
	1.52	AC
Toal Pr. IC Percentage	12.67%	

DA	Area	Tc	C2	i2	Q2	C10	i10	Q10	C25	i25	Q25	C100	i100	Q100
	(AC)	(min)		(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)
E1	1.31	5	0.64	6.31	5.29	0.71	9.61	8.94	0.76	11.79	11.74	0.85	15.42	17.17
P1	1.31	5	0.68	6.31	5.62	0.75	9.61	9.44	0.8	11.79	12.36	0.89	15.42	17.98
Peak Flow Increase					0.33			0.50			0.62			0.81

0 20 40
HORIZONTAL SCALE IN FEET

LEGEND

DRAINAGE AREA BOUNDARY

FLOW ARROW

NOTE:
DETENTION REQUIREMENTS FOR THIS SITE PLAN ARE WAIVED BASED ON THE DETENTION WAIVER WMS-95-041-W GRANTED IN ASSOCIATION WITH THE SITE PLAN SPC-94-0459C ON FEBRUARY 24, 1994, BY THE CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION, STORMWATER MANAGEMENT DIVISION. REFER TO THE DETENTION WAIVER FOR CONDITIONS OF PARTICIPATION.

SITE PLAN APPROVAL SHEET _____ OF _____
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PROJECT EXPIRATION DATE (ORD.#970905-A) _____
DWPZ _____ DDZ _____

DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____
REV. 1 _____ CORRECTION 1 _____
REV. 2 _____ CORRECTION 2 _____
REV. 3 _____ CORRECTION 3 _____

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REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
ZHIPENG XING, P.E.
127763
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ZHIPENG XING, P.E. LIC. # 127763
7/19/2024
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CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY
PARKING LOT EXPANSION

EXISTING & PROPOSED DRAINAGE AREA MAP

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	~~RE~~	07/~~19~~/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

C203

SHEET 8 OF 18

A:\4200\54288\1003\PW\CADD\SHEETS\HAMP-C-DM-DVRV DWG, COA_PDF_22X34, COA_PLOT_STYLES.STB
7/19/2024 11:16 AM
OWEN OROZCO

SITE CALCULATIONS:				
TOTAL SITE AREA	12.0	ACRES	522,720.00	SF
LIMIT OF CONSTRUCTION	0.51	ACRES	22,207.65	SF
ZONING	P			
EXISTING BUILDING AREA	8,880.00	SF		
EXISTING STANDARD PARKING	47			
EXISTING ACCESSIBLE PARKING	3			
TOTAL EXISTING PARKING	50			
PROPOSED STANDARD PARKING	71			
REQUIRED ACCESSIBLE PARKING	3			
PROVIDED ACCESSIBLE PARKING	3			
TOTAL ACCESSIBLE PARKING	74			
REQUIRED BICYCLE PARKING 5%	4			
PROVIDED BICYCLE PARKING (EXISTING)	4			

IMPERVIOUS COVER	ALLOWED		EXISTING		PROPOSED	
TOTAL BUILDING			8,880.00	SF	8,880.00	SF
PARKING/DRIVEWAY/MISC.			52,440.00	SF	57,322.53	SF
I.C. (%)	15%		11.73%		12.67%	
I.C. TOTAL	78,408.00	SF	61,320.00	SF	66,202.53	SF

Q-1	NET SITE AREA					
1	**GROSS SITE AREA**			=	12	ACRES
	SITE REDUCTIONS					
2	CRITICAL WATER QUALITY ZONE (CWQZ)			=	0	ACRES
3	WATER QUALITY TRANSITION ZONE (WQTZ)			=	0.32	ACRES
4	WASTEWATER IRRIGATION AREAS			=	0	ACRES
5	**DEDUCTION SUBTOTAL**			=	0.32	ACRES
6	**UPLAND AREA (GROSS SITE AREA MINUS DEDUCTION SUBTOTAL**			=	11.68	ACRES
	NET SITE AREA CALCULATIONS					
7	AREA OF UPLANDS WITH SLOPES 0-15%	= 11.68	X 100%	=	11.68	ACRES
8	AREA OF UPLANDS WITH SLOPES 15-25%	= 0	X 40%	=	0	ACRES
9	AREA OF UPLANDS WITH SLOPES 25-35%	= 0	X 20%	=	0	ACRES
10	AREA OF UPLANDS WITH SLOPES >35%	= 0	X 0%	=	0	ACRES
11			**NET SITE AREA**	=	11.68	ACRES

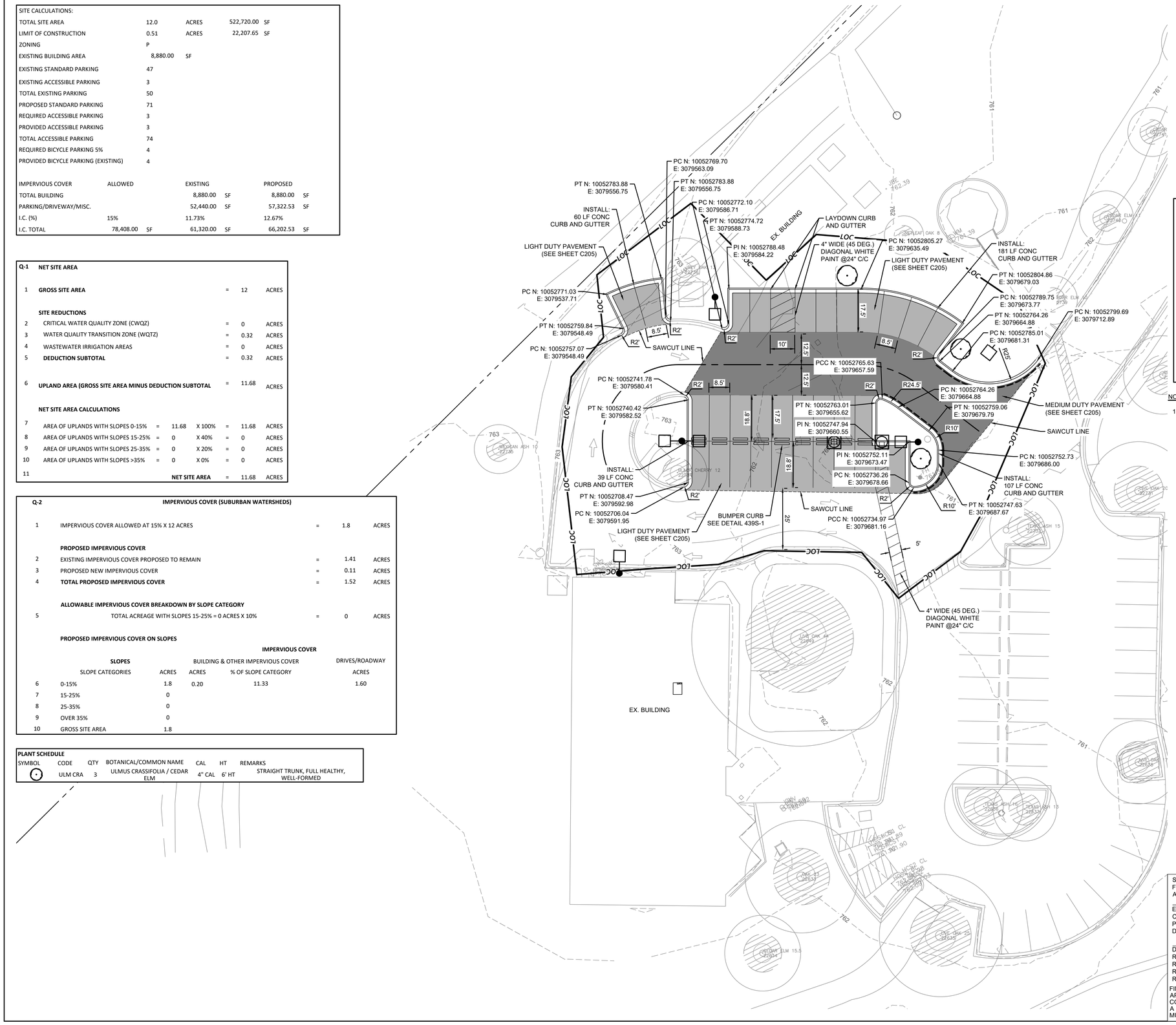
Q-2	IMPERVIOUS COVER (SUBURBAN WATERSHEDS)		
1	IMPERVIOUS COVER ALLOWED AT 15% X 12 ACRES	= 1.8	ACRES
	PROPOSED IMPERVIOUS COVER		
2	EXISTING IMPERVIOUS COVER PROPOSED TO REMAIN	= 1.41	ACRES
3	PROPOSED NEW IMPERVIOUS COVER	= 0.11	ACRES
4	**TOTAL PROPOSED IMPERVIOUS COVER**	= 1.52	ACRES
	ALLOWABLE IMPERVIOUS COVER BREAKDOWN BY SLOPE CATEGORY		
5	TOTAL ACREAGE WITH SLOPES 15-25% = 0 ACRES X 10%	= 0	ACRES

PROPOSED IMPERVIOUS COVER ON SLOPES

	SLOPES		IMPERVIOUS COVER			
			BUILDING & OTHER IMPERVIOUS COVER		DRIVES/ROADWAY	
	SLOPE CATEGORIES	ACRES	ACRES	% OF SLOPE CATEGORY	ACRES	
6	0-15%	1.8	0.20	11.33	1.60	
7	15-25%	0				
8	25-35%	0				
9	OVER 35%	0				
10	GROSS SITE AREA	1.8				

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL/COMMON NAME	CAL	HT	REMARKS
	ULM CRA	3	ULMUS CRASSIFOLIA / CEDAR ELM	4" CAL	6' HT	STRAIGHT TRUNK, FULL HEALTHY, WELL-FORMED



0 20 40

HORIZONTAL SCALE IN FEET

LEGEND

- PROPOSED FEATURES
- BUMPER CURB
- PARKING LOT CENTERLINE
- FIRE LANE MARKINGS
- LIGHT DUTY PAVEMENT
- MEDIUM DUTY PAVEMENT

NOTES:

1. FIRE LANES TO BE MARKED BY PAINTING THE CURB RED WITH WHITE STENCILING READING "FIRE ZONE/TOW-AWAY ZONE" WITH LETTERING AT LEAST 3 INCHES IN HEIGHT. SUCH STENCILING SHALL BE AT INTERVALS OF 35 FEET OR LESS.

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CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY
PARKING LOT EXPANSION

SITE PLAN

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	RE	07/19/24

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AUSTIN, TEXAS 78735
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SHEET 9 OF 18

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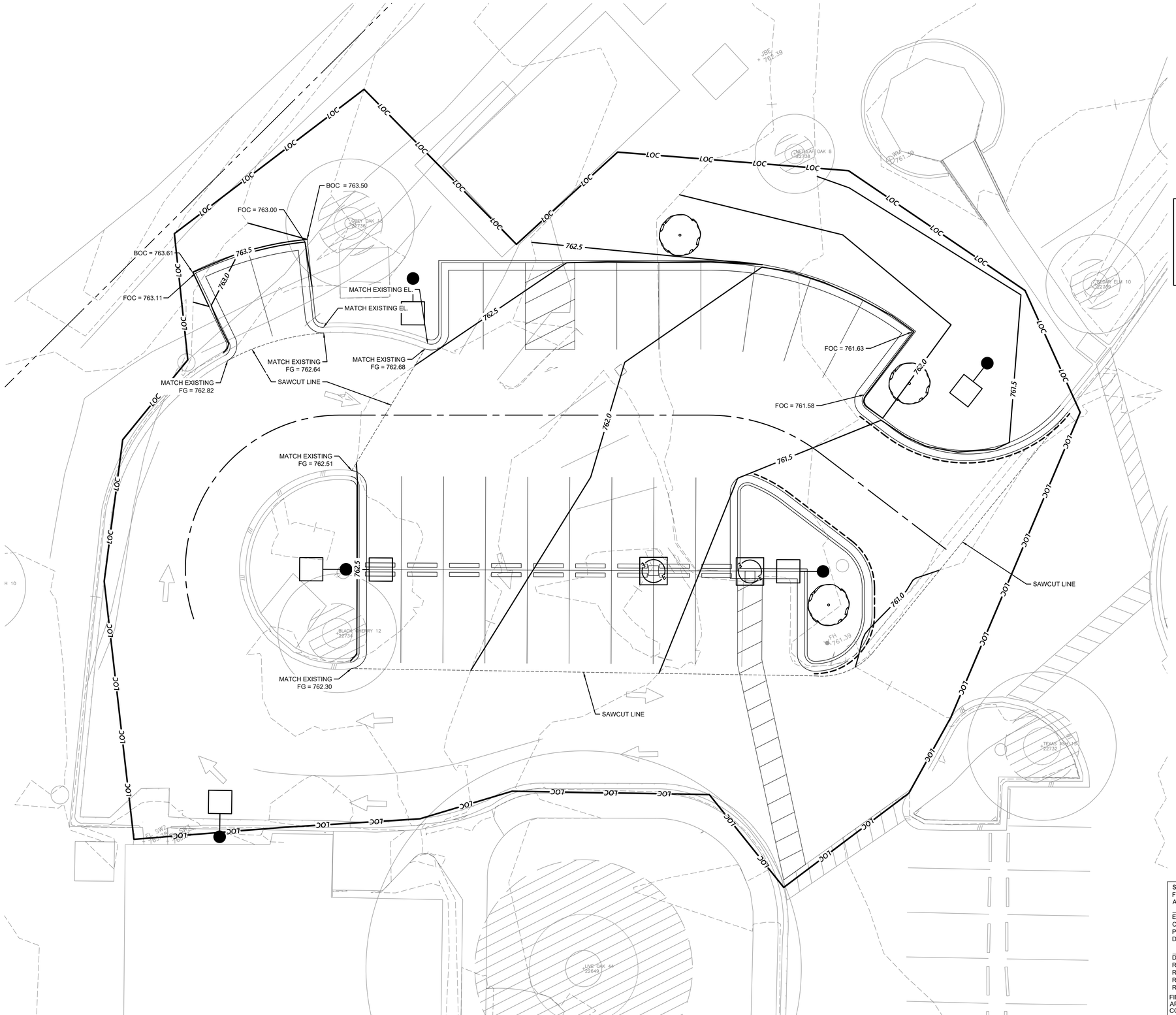

0 10 20

HORIZONTAL SCALE IN FEET

LEGEND

XXX — EXISTING CONTOURS

XXX — PROPOSED CONTOURS

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TRANSPORTATION AND PUBLIC WORKS

HAMPTION BRANCH LIBRARY
PARKING LOT EXPANSION

GRADING PLAN

NOTES	NAME	DATE
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DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	~~RE~~	07/~~19~~/24

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SHEET 10 OF 18

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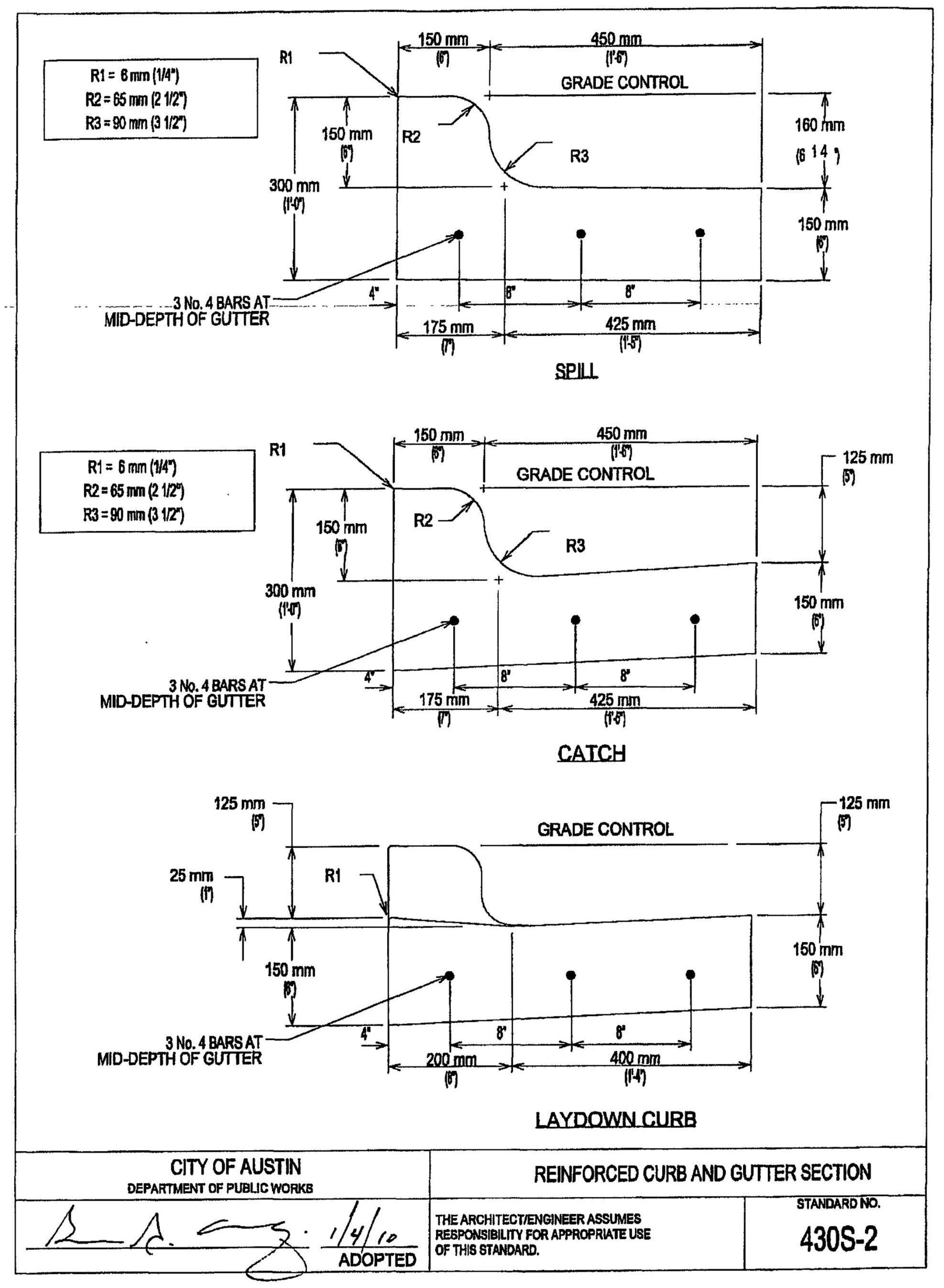
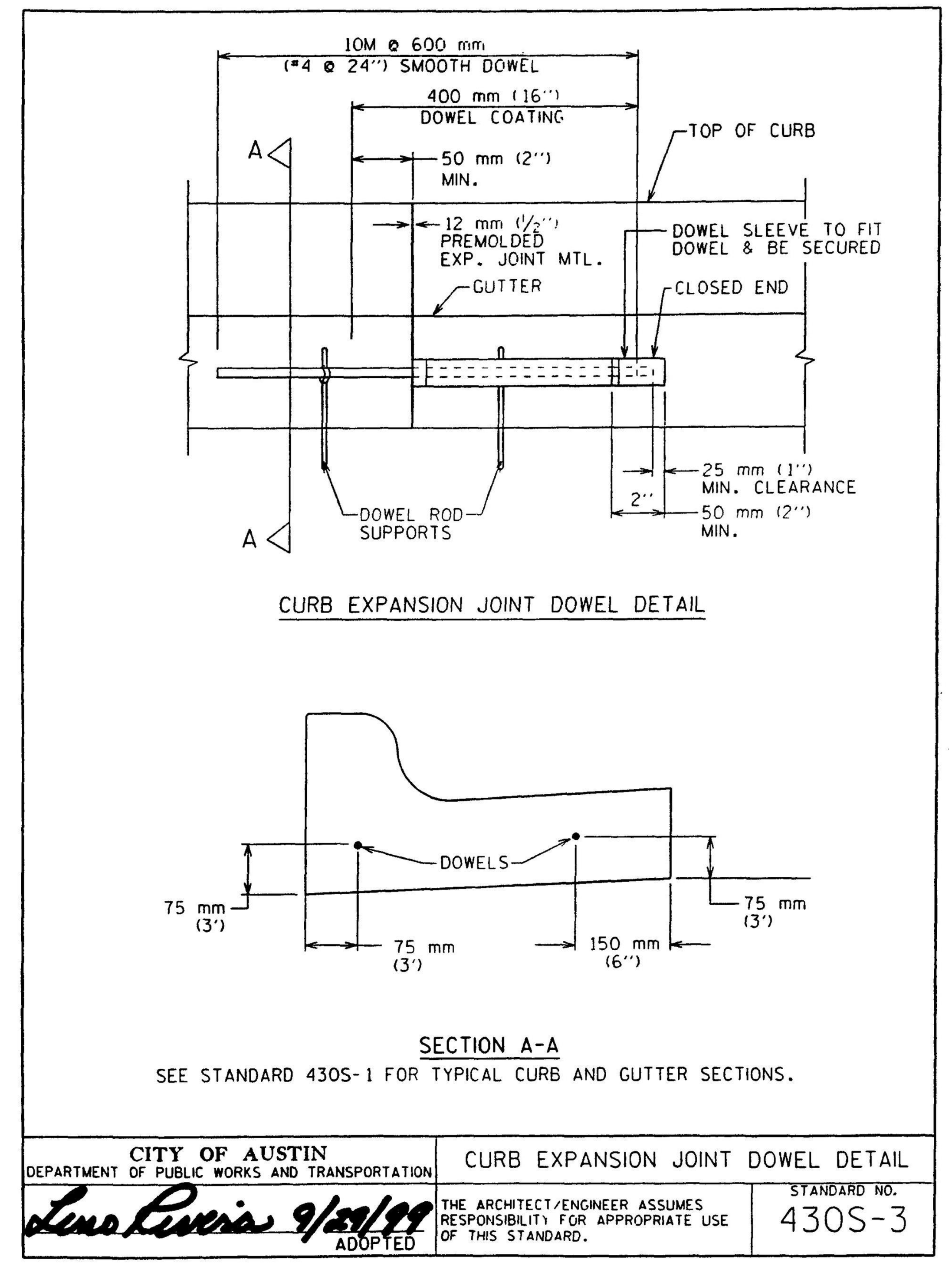
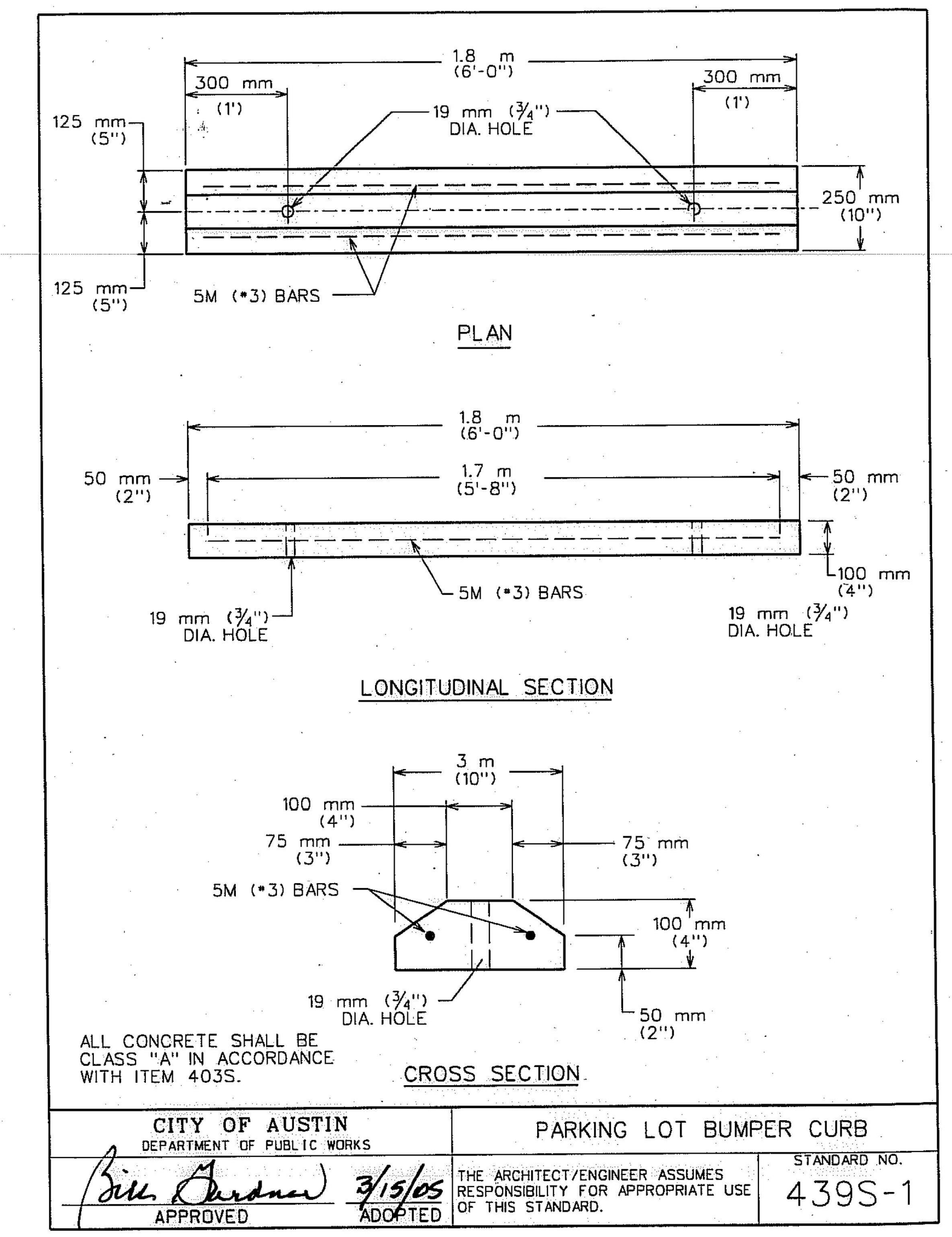
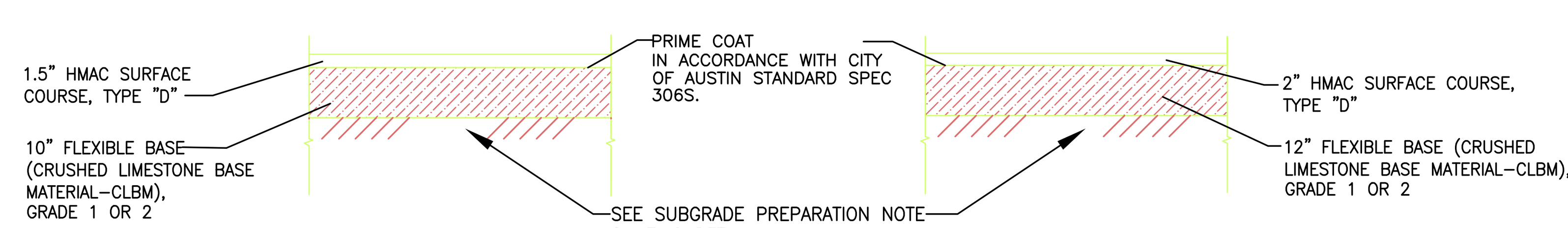
7/19/2024 11:16 AM
OWEN OROZCO









LIGHT DUTY FOR PARKING AREAS ONLY
N.T.S

MEDIUM DUTY FOR DRIVE AISLES
N.T.S

SUBGRADE PREPARATION NOTES:

1. STRIPPING DEPTH: 8 INCHES OR AS NEEDED TO REMOVE ROOTS, INCLUDING TREE ROOTBALLS, AND ORGANICS.
2. REUSE EXCAVATED SOILS: MATERIAL FREE OF ROOTS, DEBRIS AND OTHER DELETERIOUS MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 3 INCHES AND PI<20 MAY BE REUSED AS SUBBASE.
3. HORIZONTAL UNDERCUT EXTENT: 24 INCHES BEYOND THE PAVING LIMITS.
4. EXPOSED SUBGRADE TREATMENT: SCARIFY TO 8–INCH DEPTH AND RECOMPACT SOILS TO ≥ 95% MAXIMUM DRY DENSITY AT −2 TO +2 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT (TXDOT TEX–114–E IF CLAYEY AND TXDOT TEX–113–E IF GRAVELLY). PROOFROLL THE PREPARED SUBGRADE IN ACCORDANCE WITH ITEM 216 OF THE CURRENT TXDOT STANDARD SPECIFICATIONS, USING EQUIPMENT WEIGHING AT LEAST 25 TONS. GEOTECHNICAL ENGINEER SHOULD OBSERVE PROOFROLLING OPERATION.
5. GENERAL FILL TYPE: MATERIAL FREE OF ROOTS, DEBRIS AND OTHER DELETERIOUS MATERIALS WITH A MAXIMUM PARTICLE SIZE OF 3 INCHES AND A PI<20.
6. MAXIMUM GENERAL FILL LOOSE LIFT THICKENESS: 8 INCHES.
7. GENERAL FILL PLACEMENT CRITERIA: COMPACT SOILS TO ≥ 95% MAXIMUM DRY DENSITY AT −2 TO +2 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT (TXDOT TEX–114–E IF CLAYEY AND TXDOT TEX–113–E IF GRAVELLY).
8. IN–PLACE DENSITY AND MOISTURE VERIFICATION FREQUENCY: 1 TEST PER 10,0000 SQUARE FEET PER LIFT (MIN. 3 TESTS PER LIFT).

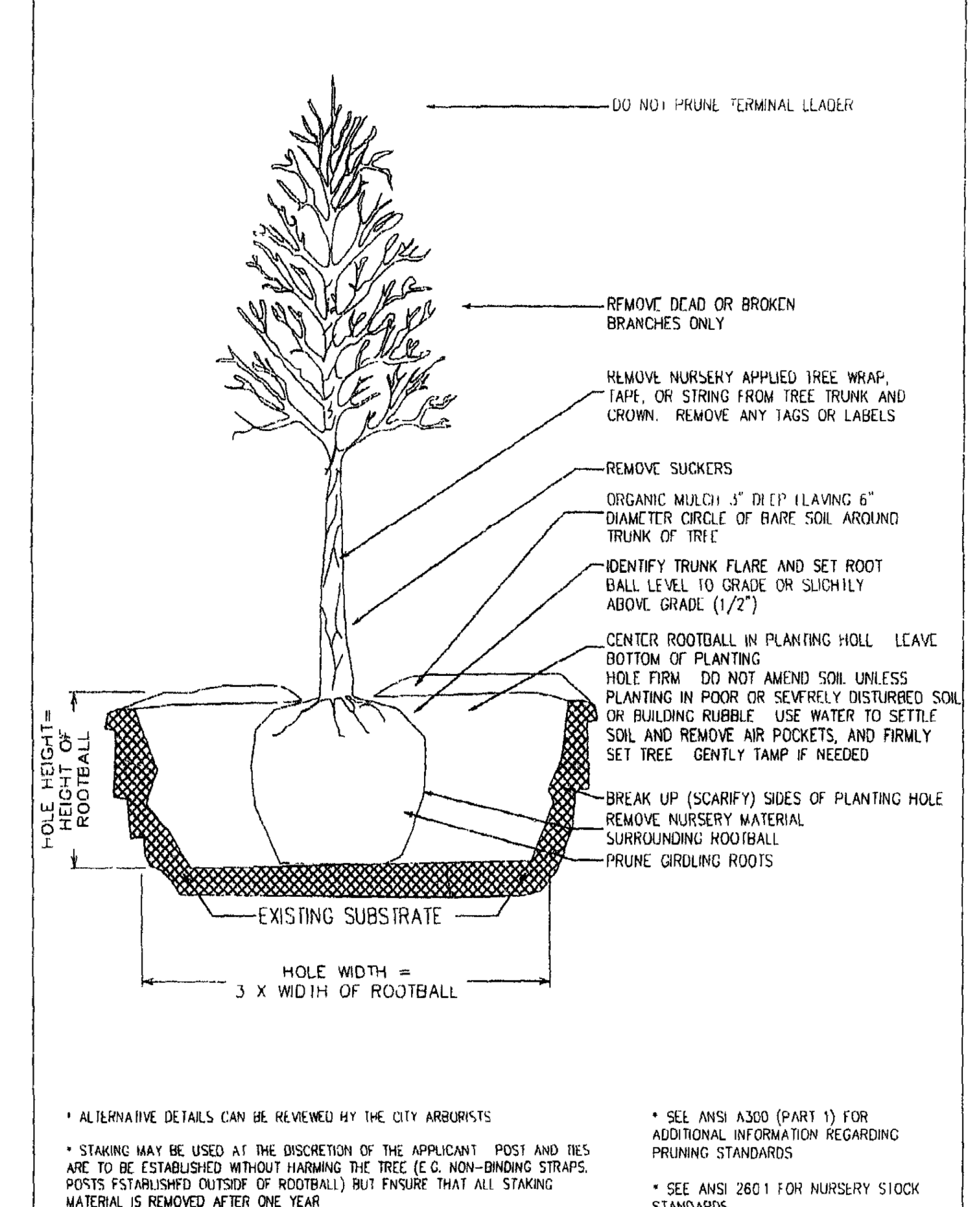
FLEXIBLE PAVEMENT MATERIAL CONSTRUCTION NOTES:

1. FLEXIBLE BASE MATERIAL TYPE: TXDOT ITEM 247, TYPE A, GRADES 1 OR 2.
2. MAXIMUM FLEXIBLE BASE LOOSE LIFT THICKNESS: 8 INCHES
3. FLEXIBLE BASE PLACEMENT CRITERIA: COMPACT TO ≥ 100% MAXIMUM DRY DENSITY AT ±2 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT (TXDOT TEX–133–E).
4. HOT MIX ASPHALTIC CONCRETE (HMAC): TXDOT STANDARD SPECIFICATIONS ITEM 340 TYPE D.
5. HMAC PLACEMENT CRITERIA: 3.8 TO 8.5% IN–PLACE AIR VOIDS.

PAVING SECTIONS BASED UPON STUDY RECOMMENDATIONS PROVIDES IN GEOTEHNICAL REPORT FOR HAMPTON BRANCH LIBRARY RENOVATION PROJECT – PARKING LOT EXPANSION (2022–1230), DATED 1/15/2024, BY ARIAS & ASSOCIATES, INC. ANY QUESTIONS REGARDING PAVING DESIGN SHOULD BE DIRECTED TO ARIAS & ASSOCIATES, INC. @512–428–5550.

PAVEMENT SECTION DETAILS
N.T.S.

FIGURE 3-14 TREE PLANTING DETAIL



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CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTON BRANCH LIBRARY
PARKING LOT EXPANSION

STANDARD DETAILS

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	07/19/24
DESIGNED BY	OO	07/19/24
CHECKED BY	ZX	07/19/24
REVIEWED BY	RE	07/19/24

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5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

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7/19/2024 11:16 AM
OWEN OROZCO

ELECTRICAL LEGEND

NOTES: MOUNTING HEIGHTS LISTED BELOW INDICATE HEIGHT TO CENTER OF OUTLET BOX. ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POLE LIGHT (ARM MOUNT, POST-TOP MOUNT)		PANELBOARD OR LOAD CENTER - SURFACE MOUNT, RECESSED MOUNT
	BOLLARD FIXTURE		CONDUIT RUN EXPOSED OR CONCEALED
	SPOTLIGHT		CONDUIT RUN BELOW FLOOR OR GRADE
	J-BOX (CEILING/WALL, FLOOR)		ITEM TO BE REMOVED
	CIRCUIT HOMERUN, #12, THWN/THHN & QTY AS REQ'D, W/ GND, 3/4"C., UNLESS NOTED		SWITCHLEG
			MECHANICAL EQUIPMENT MOUNTED ABOVE CEILING
	CIRCUIT HOMERUN CONTAINING 3 HOTS, NEUTRAL, GROUND, AND ISOLATED GROUND		
	CONDUIT STUB-UP - CAP & MARK		
	CONDUIT OR CIRCUIT BREAK/CONTINUATION (DIAGRAMMATIC ONLY)		
	GROUND		

NOTE NOT ALL ABBREVIATIONS AND SYMBOLS ON THIS SHEET ARE APPLICABLE TO THIS PROJECT.

DRAWING LIST

ELECTRICAL ABBREVIATIONS:

A	AMPERE
ABV	ABOVE
AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH, AHU	AIR HANDLER UNIT
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
AMP	AMPERE
APPROX	APPROXIMATE(LY)
ARCH('L)	ARCHITECT(URAL)
ATS	AUTOMATIC TRANSFER SWITCH
BLW	BELOW
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CD	CONDENSATE DRAIN
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING / COOLING
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUATION
CORR	CORRIDOR
CR	CARD READER
CT	CURRENT TRANSFORMER / COOLING TOWER
CTR	COUNTER
CU	COPPER / CONDENSING UNIT
DBL	DOUBLE
DEMO	DEMOLISH / DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DS	DUCTLESS SPLIT UNIT
DSD	DUCT SMOKE DETECTOR
DWG(S)	DRAWINGS
(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM, EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXISTING TO BE RELOCATED
ERV	ENERGY RECOVERY VENTILATOR
ETC	ETCETERA
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR / EXTERNAL
F/A	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FC	FLUID COOLER
FCU	FAN COIL UNIT
FIN('D)	FINISH(ED)
FIXT	FIXTURE
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FMC	FLEXIBLE METAL CONDUIT
FP	FIRE PROOFING / FIRE PROTECTION
FPB	FAN POWERED BOX
FR	FIRE RATED
FSD	FIRE/SMOKE DAMPER
FT	FOOT / FEET
G	GROUND
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRICAL CONDUCTOR
GEN	GENERATOR
GF, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFU	GAS FURNACE UNIT
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
GRS	GALVANIZED RIGID STEEL
GS	GALVANIZED STEEL
GSHP	GROUND SOURCE HEAT PUMP
GYP	GYPSUM BOARD
HP	HEAT PUMP / HORSEPOWER
HTR	HEATER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCH / INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JB, J-BOX	JUNCTION BOX
kAIC	KILOAMPERE INTERRUPTING CAPACITY
KEF	KITCHEN EXHAUST FAN
KO	KNOCK OUT
kVA	KILOVOLT-AMPS
KW	KILOWATTS
LB(S)	POUND(S)
LC	LIGHTING CONTRACTOR
LCP	LIGHTING CONTROL PANEL
LF	LINEAR FOOT / LINEAR FEET
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MH	MANHOLE
MICRO	MICROWAVE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MULT	MULTIPLE
N1, N3R	NEMA RATING (E.G., NEMA 1, NEMA 3R)
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO, #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OAU	OUTSIDE AIR UNIT
OAD	OUTSIDE AIR DAMPER
P	POLE
PART	PARTIAL
PC	PHOTOCELL
PH, Ø	PHASE
PLBG	PLUMBING
PNL	PANEL
PP	POWER POLE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R, RAD	RADIUS
REC	RECESSED
RECEPT	RECEPTACLE
REF	REFRIGERATOR / REFER TO / REFERENCE
REQ('D)	REQUIRE(D)
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SCH	SCHEDULE(D)
SD	SMOKE DAMPER
SDE	SERVICE DISTRIBUTION ENCLOSURE
SECT	SECTION
SF	SQUARE FEET / SQUARE FOOT / SUPPLY FAN
SMC	STRUCTURED MEDIA CENTER
SPD	SURGE PROTECTIVE DEVICE
SPEC(S)	SPECIFICATION(S)
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FOOT / SQUARE FEET
SS, SST	STAINLESS STEEL
STL	STEEL
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIMECLOCK
TEL	TELEPHONE
TELEDATA	TELEPHONE / DATA COMBO
TEMP	TEMPERATURE / TEMPORARY
THRU	THROUGH
TMB	TELEPHONE MOUNTING BOARD
TS	TAMPER SWITCH
TV	TELEVISION
TX	TEXAS
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY / UTILITIES
V	VOLTAGE / VOLTS
VA	VOLT-AMPS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTAC	VERTICAL TERMINAL AC
W/	WITH
W/O	WITHOUT
WH	WATER HEATER
WP	WEATHERPROOF
WR	WEATHER RESISTANT
WSHP	WATER SOURCE HEAT PUMP
WT	WEIGHT
XFMR	TRANSFORMER

APPLICABLE CODES
2021 IBC
2023 NEC
2021 IECC
2012 TAS
2021 IFC
LOCAL CODES AND ORDINANCES

VOLTAGE DROP TABLE (20A CIRCUITS ONLY)		
	208V, 1Ø	120V, 1Ø
#12 AWG	0 - 90 FT.	0 - 50 FT.
#10 AWG	91 - 150 FT.	51 - 90 FT.
#8 AWG	151 - 250 FT.	91 - 140 FT.
#6 AWG	251 - 390 FT.	141 - 225 FT.
#4 AWG	391 - 630 FT.	226 - 300 FT.
(VERIFY MINIMUM VOLTAGE DROP AND CONDUIT SIZE, PER N.E.C.)		

ELECTRICAL GENERAL NOTES

1. THESE DRAWING NOTES ACCOMPANY THE PUBLISHED CONSTRUCTION DOCUMENT SPECIFICATION BOOK (PROJECT MANUAL).
2. EXISTENCE AND LOCATION OF DEVICES, FIXTURES, EQUIPMENT, CIRCUITING, ETC. THAT ARE SHOWN TO BE EXISTING WAS TAKEN FROM EXISTING DRAWINGS AND/OR VISUAL INSPECTION AND SHOULD BE VERIFIED IN FIELD PRIOR TO ANY PRICING OR WORK.
3. ELECTRICAL CONTRACTOR SHALL VISIT SITE AND SHALL BECOME FAMILIAR WITH SITE CONDITIONS AND VERIFY DIMENSIONS AND WORK TO BE INSTALLED PRIOR TO SUBMITTING A BID: BY SUBMITTING A BID, CONTRACTOR CERTIFIES FAMILIARITY WITH EXISTING JOBSITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK; FAILURE TO DO SO WILL NOT BE CAUSE FOR EXTRA WORK COMPENSATION.
4. ALL MATERIAL SHALL BE NEW AND SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
5. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR AT LEAST 75°C. (CU/AL) OR AS NOTED IN MANUFACTURER'S INSTRUCTIONS, WHICHEVER IS GREATER.
6. FURNISH ALL MATERIAL, LABOR, EQUIPMENT AND PERMITS TO PROVIDE A COMPLETE, OPERATIONAL ELECTRICAL SYSTEM CONSISTENT WITH THE INTENT OF THE DRAWINGS. WHERE THE WORD "PROVIDE" IS USED, IT SHALL MEAN, "FURNISH AND INSTALL COMPLETE AND READY FOR USE".
7. INSTALLATIONS FOUND NOT COMPLYING WITH SPECIFIED WORKMANSHIP PRACTICES SHALL BE REVISED TO COMPLY AT NO ADDITIONAL COST TO THE OWNER.
8. ELECTRICAL CONTRACTOR SHALL PERFORM WORK IN A SAFE MANNER AND MAINTAIN ADEQUATE PROTECTION OF WORK, THE OWNER'S PROPERTY AND ALL PERSONS ON SITE FROM INJURY, DAMAGE OR LOSS.
9. FIELD-COORDINATE LOCATION OF PANELS, CONDUITS AND DEVICES WITH STRUCTURAL MEMBERS AND EQUIPMENT FROM OTHER TRADES. CAREFULLY COORDINATE INSTALLATION SCHEDULES WITH OTHER TRADES AND GENERAL CONTRACTOR. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. COORDINATE LOCATION AND INSTALLATION OF OWNER-FURNISHED ITEMS AFFECTING THIS TRADE.
10. ALL WIRING SHALL BE IN CONDUIT. ALL WIRING SHALL BE #12 AWG MINIMUM COPPER CONDUCTORS. ALUMINUM CONDUCTORS WILL NOT BE ALLOWED.
11. FEEDER CONDUCTORS, BRANCH WIRING, PANEL BUSS AND GROUND BUSS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
12. ELECTRICAL CONTRACTOR SHALL ASSIGN CIRCUITS IN FIELD ON ALL PANELBOARDS TO MAKE LOADS ON EACH PHASE AS BALANCED AS POSSIBLE.
13. ELECTRICAL CONTRACTOR SHALL ASSEMBLE AND PROVIDE TO THE OWNER AS PART OF CLOSE-OUT SUBMISSION REQUIREMENTS, ORGANIZED BINDER WITH TECHNICAL DATA, CUT SHEETS, MAINTENANCE REQUIREMENTS, ADJUSTMENT PROCEDURES, TEST REPORTS, APPROVALS, WARRANTIES, PHONE NUMBERS OF SERVICE PERSONNEL, SOURCES OF REPLACEMENT PARTS AND OTHER PERTINENT INFORMATION.
14. BEFORE BEGINNING EXCAVATIONS OR DEMOLITION OF ANY NATURE WHATSOEVER, CONTRACTOR SHALL LOCATE ALL SERVICES AND UTILITIES OCCURRING WITHIN THE BOUNDS OF THE PROJECT. THE CONTRACTOR SHALL THEN PROCEED WITH CAUTION IN THEIR WORK SO THAT NO UTILITY OR LINE SERVING AREAS THAT ARE TO REMAIN BE DAMAGED WITH A RESULTANT LOSS OF SERVICE. VERIFY THE SOURCE AND SERVICE OF EACH AND EVERY LINE ENCOUNTERED AND RECORD SERVICE, SIZE AND LOCATION ON RECORD DRAWINGS.
15. COORDINATE EACH AND EVERY INTERRUPTION OF SERVICES AND UTILITIES WITH THE OWNER AND UTILITY COMPANIES TO ENSURE MINIMUM SHUT-DOWN TIMES ARE ACCEPTABLE.
16. FOR EACH EQUIPMENT CONNECTION SHOWN, PROVIDE THE DEVICE, OUTLET, DISCONNECT SWITCH, OR JUNCTION BOX REQUIRED TO CONNECT THE EQUIPMENT.
17. NO SINGLE CONDUIT SHALL CONTAIN MORE THAN 6 CURRENT CARRYING CONDUCTORS, UNLESS NOTED OTHERWISE AND PROPERLY DERATED.
18. DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF IECC SECTION C405 SHALL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY PER IECC C408.3.2.
19. REVIEW ARCHITECTURAL, STRUCTURAL, CIVIL, AND OTHER DRAWINGS PRIOR TO BID.
20. INSTALL ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO INSTALLATION.
21. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
22. ELECTRICAL CONTRACTOR TO PROVIDE MEANS (REQUEST AND INSTALLATION OF) TEMPORARY CONSTRUCTION POWER.

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
SHARON S. BICKFORD
77390
LICENSED
PROFESSIONAL ENGINEER
06/07/24

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTON AT OAK HILL
BRANCH LIBRARY PROJECT

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	06/07/24
DESIGNED BY	OO	06/07/24
CHECKED BY	ZX	06/07/24
REVIEWED BY	RE	06/07/24

SITE PLAN APPROVAL SHEET _____ OF _____
FILE NUMBER _____ APPLICATION DATE _____
APPROVED BY COMMISSION ON _____ UNDER SECTION _____
OF CHAPTER _____ OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) _____
CASE MANAGER _____
PROJECT EXPIRATION DATE (ORD.#970905-A) _____
DWPZ _____ DDZ _____
_____
DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____
REV. 1 _____ CORRECTION 1 _____
REV. 2 _____ CORRECTION 2 _____
REV. 3 _____ CORRECTION 3 _____
FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE, IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED), MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

ENCOTECH ENGINEERING CONSULTANTS
TBPE Firm 1141 | 8500 Bluffstone Cove, Suite B-103 Austin, Texas 78759 | 512.338.1101
Project No.: 21117.M.AUS

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

ELECTRICAL GENERAL NOTES

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DIVISION 26 - ELECTRICAL

PART 1 - GENERAL REQUIREMENTS

1.1 SCOPE

A. THE WORK HEREIN CONSISTS OF THE CONTRACTOR PROVIDING LABOR, MATERIALS, PRODUCTS, AND PERFORMING ALL OPERATIONS REQUIRED FOR THE COMPLETE OPERATING INSTALLATION OF ALL SYSTEMS IN ACCORDANCE WITH SPECIFICATIONS, APPLICABLE DRAWINGS, TERMS, CONDITIONS OF THE CONTRACT, AND ALL APPLICABLE CODES AND ORDINANCES GOVERNING THE INSTALLATION OF THE VARIOUS SYSTEMS HEREIN. ALL WORK SHALL BE FULLY CORRELATED WITH THE WORK OF OTHER CRAFTS.

B. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, EACH TO THE OTHER; WHAT IS SHOWN ON ONE IS AS BINDING AS IF CALLED FOR IN BOTH.

C. SHOULD THE DRAWINGS DISAGREE IN THEMSELVES, OR WITH THE SPECIFICATIONS, THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR MATERIALS SHALL BE USED.

D. INTENT: THE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENTS AND THE EXTENT OF THE WORK. THE DRAWINGS DO NOT SHOW, IN MINUTE DETAIL, ALL FEATURES OF THE INSTALLATION. FOLLOW THE DRAWINGS AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT. ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE. THE JOB SHALL BE BID AND INSTALLED COMPLETE AND CONSISTENT IN EVERY REQUEST.

E. EACH CONTRACTOR SHALL STUDY THE CONTRACT DOCUMENTS TO DETERMINE THE EXTENT OF WORK PROVIDED UNDER THIS CONTRACT, AS WELL AS TO ASCERTAIN THE DIFFICULTY TO BE ENCOUNTERED IN PERFORMING THE WORK ON THE DRAWINGS AND OUTLINED HEREINAFTER, AND IN MAKING CONNECTIONS TO EXISTING UTILITIES, INSTALLING NEW EQUIPMENT AND SYSTEMS AND COORDINATING THE WORK WITH THE OTHER TRADES.

F. EXAMINATION OF SITE: THE CONTRACTOR SHALL THOROUGHLY EXAMINE SITE AND SATISFY THEMSELVES AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL MEASUREMENTS AFFECTING THEIR WORK AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR EXPENSES DUE TO THEIR NEGLECT TO EXAMINE OR FAILURE TO DISCOVER CONDITIONS WHICH AFFECT THEIR WORK. NO EXTRA COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS.

G. SHOULD ANY DISCREPANCIES OCCUR WITHIN THE CONTRACT DOCUMENTS DURING THE BIDDING PHASE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF SUCH DISCREPANCIES FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK. CLARIFICATIONS ISSUED AFTER THE CONTRACT IS AWARDED ARE TO BE INCORPORATED BY THE CONTRACTOR AT NO ADDITIONAL COSTS.

H. SHOULD THE CONTRACTOR FIND, AT ANY TIME, DURING THE PROGRESS OF THE WORK, THAT IN THEIR JUDGEMENT, EXISTING CONDITIONS MAKE DESIRABLE A MODIFICATION IN REQUIREMENTS COVERING ANY PARTICULAR ITEM OR ITEMS, THEY SHALL REPORT SUCH ITEMS PROMPTLY TO THE PROJECT MANAGER FOR COORDINATION.

I. THE COMPLETION OF WORK SHALL BE AS DESCRIBED IN BOTH THE DRAWINGS, SPECIFICATIONS, ADDENDUMS, AND ALL OTHER APPLICABLE CONTRACT DOCUMENTS.

J. CONTRACTOR SHALL PROVIDE THE REQUIRED NUMBER OF SKILLED WORKERS, TRAINED, AND EXPERIENCED IN THEIR TRADE AND WHO ARE FAMILIAR WITH THE SPECIFICATIONS AND MEANS AND METHODS FOR PERFORMING THE WORK AS SHOWN ON THE PLANS AND SPECIFICATIONS.

K. ITEMS NOT SPECIFICALLY SHOWN ON PLANS OR SPECIFICATIONS WHICH ARE ESSENTIAL FOR THE PROPER INSTALLATION AND OPERATION OF THE NEW SYSTEMS ARE INCLUDED IN THE SCOPE OF WORK AND SHALL BE PROVIDED BY THE CONTRACTORS AT NO ADDITIONAL COSTS TO THE OWNER.

1.2 REGULATORY REQUIREMENTS

A. CODES AND ORDINANCES: PERFORM ALL WORK IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES, INCLUDING THE AMERICANS WITH DISABILITIES ACT (ADA) (LATEST EDITION), THE CURRENT EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES, INC. (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN STANDARD OF TESTING MATERIALS (ASTM), THE LATEST ADOPTED BUILDING CODE AND ALL CURRENT SUPPLEMENTS THERETO, AND ANY OTHER AUTHORITIES HAVING JURISDICTION (AHJ) OVER THE WORK.

B. PERMITS AND FEES: PROCURE AND PAY FOR ALL PERMITS, LICENSES, FEES AND CHARGES, AND GIVE ALL NOTICES NECESSARY, AND OBTAIN FINAL INSPECTION AND APPROVAL FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION.

C. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND REQUIREMENTS OF ANY CODE OR AHJ, THE MOST STRINGENT REQUIREMENTS OF THE AFOREMENTIONED SHALL GOVERN.

D. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS, CONTRACTOR SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES, AS APPROVED BY THE ARCHITECT.

1.3 COORDINATION OF WORK

A. EACH CONTRACTOR SHALL COMPARE THEIR RESPECTIVE DRAWINGS AND SPECIFICATIONS WITH THOSE OF OTHER TRADES. ALL WORK SHALL BE INSTALLED IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK. BEFORE INSTALLATION, ALL TRADES SHALL MAKE PROPER PROVISIONS TO AVOID INTERFERENCES (THIS MAY REQUIRE THE DEVELOPMENT OF MULTI-TRADE COORDINATION DRAWINGS BY THE CONTRACTOR). ALL ITEMS REQUIRING MAINTENANCE OR SERVICE ACCESS MUST BE PROVIDED ADEQUATE SPACE.

B. TIMING OF INSTALLATION SHALL BE COORDINATED ACROSS TRADES TO ALLOW PROPER INSTALLATION OF ALL EQUIPMENT AND COMPONENTS ACROSS DISCIPLINES.

C. CONTRACTOR SHALL COORDINATE THE LOCATION OF THEIR SYSTEMS SO THAT ALL ELECTRICAL COMPONENTS COMPLY WITH LATEST CODE REQUIREMENTS FOR CLEARANCES, ETC.

D. EXACT ROUTING AND LOCATION OF SYSTEMS SHALL BE DETERMINED PRIOR TO FABRICATION OR INSTALLATION. LOCATIONS OF ANY AND ALL COMPONENTS AND EQUIPMENT SHALL BE ADJUSTED IF NEEDED TO ACCOMMODATE THE WORK WITH INTERFERENCES ANTICIPATED AND ENCOUNTERED.

E. PRIOR TO BID, CONTRACTOR SHALL VERIFY AND COORDINATE ALL REQUIRED CONNECTIONS AND/OR RELOCATIONS OF UTILITIES WITH UTILITY COMPANIES. PERFORM SUCH WORK IN ACCORDANCE WITH UTILITY COMPANY REGULATIONS. CONTRACTOR SHALL PAY ALL APPLICABLE FEES AND COSTS, INCLUDING THOSE FOR ANY EXTENSIONS, RELOCATIONS AND/OR CONNECTIONS.

F. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ABOVE GROUND, BELOW GROUND AND MARKED UTILITIES.

1.4 CUTTING AND PATCHING

A. STRUCTURAL SUPPORTS AND MEMBERS MAY NOT BE CUT OR MODIFIED WITHOUT PRIOR APPROVAL FROM ARCHITECT AND STRUCTURAL ENGINEER.

B. DO NOT CUT OR MODIFY WALLS, FLOORS, CEILINGS, OR SURFACES WITHOUT PRIOR APPROVAL FROM ARCHITECT.

C. ALL CUTTING, REPAIRING AND REQUIRED STRUCTURAL REINFORCING FOR INSTALLATION OF THIS WORK SHALL BE DONE IN CONFORMANCE WITH ARCHITECT'S DIRECTIONS AND ANY DAMAGE CAUSED BY CUTTING SHALL BE REPAIRED EQUAL TO ORIGINAL CONDITIONS. UNLESS OTHERWISE NOTED, PATCHING OF WALLS, FLOORS, CEILING, AND SURFACES SHALL MATCH CONSTRUCTION, MATERIAL, FINISH, AND COLOR OF ADJOINING AREAS.

1.5 EXCAVATION AND BACKFILLING

A. EXCAVATE BY HAND AND WITH CAUTION TO LOCATE ALL UTILITIES IN THE BOUNDS OF THE AREA TO BE EXCAVATED PRIOR TO MACHINE EXCAVATING. PROCEED WITH SAFETY AND CAUTION SO THAT NO UTILITY IS DAMAGED OR INTERRUPTED.

B. TRENCHES SHALL BE SIZED WITH SUFFICIENT WIDTH TO ALLOW SAFE INSTALLATION OF PIPING AND EQUIPMENT. SECURE, BRACE, OR GRADE TRENCHES TO PREVENT SETTLING.

C. DO NOT EXCAVATE NEAR WALLS, COLUMNS, STRUCTURAL SUPPORTS, OR PITS WITHOUT APPROVAL BY STRUCTURAL ENGINEER AND ARCHITECT.

D. ANY MATERIAL EXCAVATED THAT IS NOT USED FOR BACKFILLING MUST BE REMOVED FROM THE SITE BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE. UNUSED EXCAVATED MATERIAL REMOVED FROM SITE IS THE RESPONSIBILITY OF CONTRACTOR AND MUST BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE ARCHITECT.

1.6 SERVICEABILITY

A. FURNISH ALL PRODUCTS TO PROVIDE THE PROPER ORIENTATION OF SERVICEABLE COMPONENTS TO ACCESS SPACE PROVIDED.

B. REPLACE OR RELOCATE ALL PRODUCTS INCORRECTLY ORDERED OR INSTALLED TO PROVIDE PROPER SERVICEABILITY.

C. ACCESS PANELS/DOORS:

(i) AT A MINIMUM, PROVIDE ACCESS PANELS WHERE REQUIRED BY CODE AND FOR MAINTENANCE OR SERVICE.

(ii) FOR EACH ROOM, CONTRACTOR SHALL COORDINATE ALL ACCESS PANEL LOCATIONS TO MINIMIZE THE NUMBER OF ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT. ARCHITECT SHALL APPROVE TYPE, SIZE, COLOR, AND LOCATION PRIOR TO INSTALLATION.

(iii) UNLESS OTHERWISE NOTED, ACCESS PANELS SHALL BE FLANGED STAINLESS STEEL CONSTRUCTION, WITH CONTINUOUS HINGE AND WITH QUARTER TURN SCREW LOCK, INSTALLED FLUSH WITH ADJACENT SURFACES AND PAINTED TO MATCH, SIZED AND LOCATED FOR EASY ACCESS TO AND REPLACEMENT OF EQUIPMENT, AND NOT LESS THAN 24” X 24”.

1.7 BASIC METHODS

A. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND ORGANIZED APPEARANCE WHEN COMPLETED. PERFORM ALL WORK WITH HIGHEST REGARD TO SAFETY.

B. ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED BY CONTRACTOR SHALL BE NEW, MANUFACTURED, FREE FROM DEFECTS, OF THE QUALITY SPECIFIED, AND CERTIFIED TO COMPLY WITH THE PLANS AND SPECIFICATIONS. MANUFACTURERS SHALL BE AS SPECIFIED HEREIN, OR BY ADDENDA.

C. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND MATERIALS SHALL BE COMMERCIAL GRADE. ALL MATERIALS SHALL HAVE THE UL LABEL.

D. ALL WORK SHALL BE COMPLETED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM THAT IS TIDY IN APPEARANCE, EFFICIENT IN DESIGN, AND QUIET IN DESIGN. UNCHARACTERISTIC EQUIPMENT RATTLING, SQUEALING, SQUEAKING, OR NOISE GENERATION BY EQUIPMENT IS NOT ACCEPTABLE.

E. CONTRACTOR SHALL STORE AND PROTECT ALL EQUIPMENT BEING RELOCATED. CONTRACTOR SHALL REPLACE ALL DAMAGED EQUIPMENT AT CONTRACTOR'S EXPENSE.

F. UPON DELIVERY TO SITE, ALL EQUIPMENT AND MATERIAL MUST BE STORED AND PROTECTED FROM DAMAGE. STORAGE SHALL PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE DUE TO DIRT, WATER, SUN, DEBRIS, PHYSICAL DAMAGE, VANDALISM, AND ANY OTHER DAMAGE. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

G. DURING CONSTRUCTION, CONTRACTOR SHALL KEEP SITE CLEAN OF DEBRIS. PRIOR TO COMPLETION OF WORK, ALL CONSTRUCTION WASTE MATERIALS SHALL BE REMOVED FROM THE SITE.

H. ANY EXISTING PROPERTY THAT WAS DAMAGED AS A RESULT OF WORK PERFORMED SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE DAMAGED PROPERTY'S OWNER AND AHJ.

I. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN ON DETAILS FOR EQUIPMENT AND COMPONENTS IN THIS PACKAGE SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.

J. FOR ALL EQUIPMENT, PROVIDE IDENTIFICATION TAGS MADE OF EMBOSSED ACRYLIC WITH MINIMUM 1” HIGH LETTERING. TAGS SHALL MATCH THE TAGS/MARKS INDICATED ON THE DRAWINGS AND SCHEDULE AND LETTERING SHALL BE OF CONTRASTING COLOR TO TAG (E.G., BLACK AND WHITE, ETC).

K. INSTALL ALL EQUIPMENT, MATERIALS, ETC IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

L. INSTALL HANGERS, SUPPORTS, CLAMPS, AND ATTACHMENTS AS PER INDUSTRY STANDARDS TO PROPERLY SUPPORT ALL COMPONENTS. SECURELY FASTEN ALL WORK DIRECTLY TO THE STRUCTURE TO PREVENT A HAZARD TO HUMAN LIFE AND LIMB, AND TO PREVENT DAMAGE TO PRODUCTS OF CONSTRUCTION UNDER ALL CONDITIONS OF OPERATION.

M. EQUIPMENT SUPPORTS SHALL BE WELDED, SHOP OR FIELD-FABRICATED EQUIPMENT SUPPORT MADE FROM STRUCTURAL CARBON-STEEL SHAPES.

N. CUT MATERIALS ACCURATELY FROM MEASUREMENTS TAKEN ON THE JOB SITE.

O. DO NOT SPRING OR BEND MATERIALS OR COMPONENTS TO FIT CONDITIONS OR MAKE UP JOINTS.

1.8 SUBMITTALS

A. SUBMITTALS SHALL BE COMPLETE FOR SYSTEM(S) INVOLVED. PROVIDE SUBMITTALS FOR ALL EQUIPMENT, MATERIALS, SUPPORTS, AND APPURTENANCES.

B. PROVIDE PRODUCT DATA FOR MANUFACTURED EQUIPMENT FOR REVIEW. INCLUDE CATALOG PERFORMANCE RATINGS, CONSTRUCTION, PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS.

C. IF A SUBSTITUTE IS SUBMITTED FOR APPROVAL, CONTRACTOR MUST PROVIDE IDENTIFICATION OF IMPACT OF THE CHANGE UPON OTHER DISCIPLINES. THE BURDEN OF PROOF THAT THE PROPOSED SOLUTION WILL BE AN EQUIVALENT SOLUTION IS UPON THE CONTRACTOR. THE SUBSTITUTION MUST BE APPROVED BY OWNER AND ENGINEER BEFORE THE SUBSTITUTION MAY BE MADE.

D. WHERE EQUIPMENT OF THE ACCEPTABLE MANUFACTURERS REQUIRES DIFFERENT ARRANGEMENT OR CONNECTIONS FROM WHAT IS SCHEDULED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE EQUIPMENT TO OPERATE PROPERLY AND IN HARMONY WITH THE ORIGINAL INTENT OF THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL MAKE ALL NECESSARY CHANGES IN ALL AFFECTED RELATED WORK PROVIDED UNDER OTHER SECTIONS INCLUDING LOCATION OF ROUGH-IN CONNECTIONS BY OTHER TRADES, CONDUIT SUPPORTS, INSULATION, ETC. ALL CHANGES SHALL BE MADE AT NO INCREASE IN THE CONTRACT AMOUNT OR ADDITIONAL COST TO THE OTHER TRADES AND/OR OWNER.

1.9 COMPLETION

A. UPON COMPLETION OF ALL INSTALLATIONS, CONTRACTOR SHALL DEMONSTRATE TO THE OWNER'S SATISFACTION THAT THE SYSTEMS HAVE BEEN INSTALLED IN A SATISFACTORY MANNER IN ACCORDANCE WITH THE PLANS AND APPLICABLE CODES.

B. UPON COMPLETION OF INSTALLATION OF NEW EQUIPMENT, CONTRACTOR SHALL FACILITATE STARTUP AND TESTING AS PER THE MANUFACTURERS WRITTEN INSTRUCTIONS AND CHECKLIST.

C. WARRANTEE: UNLESS OTHERWISE RESTRICTED ELSEWHERE IN THE CONTRACT DOCUMENTS, ALL EQUIPMENT AND WORK SHALL BE GUARANTEED FOR A PERIOD OF TWELVE (12) MONTHS FROM SUBSTANTIAL COMPLETION DATE. ANY DEFECTS IN EQUIPMENT OR WORKMANSHIP SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER. THE GUARANTEE PERIOD OF ANY PART OF THE REPAIRED ITEM SHALL BE EXTENDED FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF SUCH REPAIR OR REPLACEMENT.

1.10 CLOSE-OUT DOCUMENTS

A. ALL CLOSE-OUT DOCUMENTS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE A/E TEAM FOR APPROVAL.

B. ONCE APPROVED BY A/E TEAM, CONTRACTOR SHALL PROVIDE DIGITAL COPY AND PHYSICAL COPY OF THE OPERATION, INSTALLATION AND MAINTENANCE MANUALS TO OWNER.

C. OPERATIONS AND MAINTENANCE (O&M) MANUALS: AFTER SUBSTANTIAL COMPLETION, CONTRACTOR SHALL SUBMIT TO THE OWNER THE O&M MANUALS FOR ALL EQUIPMENT AND PRODUCTS (DIGITAL COPY AND PHYSICAL COPY).

D. AS-BUILT DRAWINGS AND A COMPLETE PARTS LIST FOR ALL INSTALLED EQUIPMENT SHALL BE PROVIDED TO OWNER.

PART 2 - GENERAL ELECTRICAL REQUIREMENTS

2.1 REGULATORY REQUIREMENTS FOR ELECTRICAL

A. CODES AND ORDINANCES: PERFORM ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), LATEST ADOPTED LOCAL CODES, AND ALL CURRENT SUPPLEMENTS THERETO.

B. INCLUDE TEMPORARY ELECTRICAL POWER AND LIGHTING TO SATISFY OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS.

2.2 COORDINATION OF ELECTRICAL WORK

A. THE WIRING LAYOUTS ARE SCHEMATIC AND ARE NOT NECESSARILY INTENDED TO SHOW THE EXACT LOCATION OF RACEWAYS, OUTLETS, ETC. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS AND DETAILS FOR DIMENSIONS AND SHALL REFER TO THE ARCHITECTURAL PLANS AND DETAILS OF BUILDING CONSTRUCTION.

B. INCLUDE POWER FOR ANY EQUIPMENT AS SHOWN ON THE DRAWINGS.

2.3 ELECTRICAL RECORD AS-BUILT DRAWINGS

A. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING UP A CLEAR SET OF AS-BUILT ELECTRICAL DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DEVIATIONS FROM THE SEALED CONSTRUCTION ELECTRICAL DRAWINGS.

B. CONTRACTOR SHALL KEEP THE MARKED-UP AS-BUILT DRAWINGS ON SITE UNTIL COMPLETION OF THE PROJECT.

C. GENERAL CONTRACTOR SHALL TURN OVER A DIGITAL COPY AND PHYSICAL COPY OF THE RECORD AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE PROJECT.

PART 3 - SPECIALTY ELECTRICAL REQUIREMENTS

3.1 DEMOLITION

A. CONTRACTOR SHALL THOROUGHLY EXAMINE SITE AND SATISFY HIMSELF/HERSELF AS TO THE CONDITIONS UNDER WHICH THE DEMOLITION WORK IS TO BE PERFORMED. VERIFY ALL EQUIPMENT AND COMPONENTS TO BE REMOVED PRIOR TO COMMENCING ANY WORK.

B. PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL CONFIRM WITH THE OWNER WHICH EQUIPMENT AND ASSOCIATED INFRASTRUCTURE DESIGNATED TO BE DEMOLISHED IS TO BE TURNED OVER TO THE OWNER OR REMOVED FROM THE SITE.

C. CONTRACTOR SHALL STORE AND PROTECT ALL EQUIPMENT BEING RETURNED TO THE OWNER. CONTRACTOR SHALL REPLACE ALL DAMAGED EQUIPMENT AT CONTRACTOR'S EXPENSE.

3.2 WORKMANSHIP

A. WIRING: WIRING IN ALL SWITCHBOARDS, BRANCH CIRCUIT PANELBOARDS, STARTER PANELS, DISTRIBUTION PANELS, AND TERMINAL CABINETS SHALL RUN PARALLEL OR AT RIGHT ANGLES TO THE SIDES OR TOP OF THE EQUIPMENT HOUSING.

B. CONDUCTORS: CONDUCTORS SHALL BE GROUPED AND HARNESSED TOGETHER USING LOCKING TYPE CABLE TIES.

PART 4 - BASIC ELECTRICAL MATERIALS AND METHODS

4.1 REGULATORY REQUIREMENTS

A. CONFORM TO REQUIREMENTS OF ANSI / NFPA 70.

B. FURNISH PRODUCTS LISTED BY UL.

4.2 COORDINATION

A. OBTAIN AND REVIEW SHOP DRAWINGS, PRODUCT DATA, AND MANUFACTURER'S INSTRUCTIONS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS TO DETERMINE CONNECTION LOCATIONS AND REQUIREMENTS.

B. SEQUENCE ROUGH-IN OF ELECTRICAL CONNECTIONS TO COORDINATE WITH INSTALLATION AND START-UP OF EQUIPMENT FURNISHED UNDER OTHER SECTIONS.

PART 5 - GROUNDING

5.1 GENERAL

A. THE ELECTRICAL SERVICE NEUTRAL, THE IDENTIFIED NEUTRAL OF THE INTERIOR WIRING SYSTEM AND ALL INTERIOR RACEWAYS AND EQUIPMENT SHALL BE GROUNDED TO THE GROUND BUS IN THE SERVICE DISCONNECTING MEANS. THE SERVICE DISCONNECTING MEANS SHALL BE GROUNDED TO A MINIMUM OF ONE (1) GROUNDING ELECTRODE AND ALL AVAILABLE GROUNDING ELECTRODES SHALL BE BONDED TOGETHER. CONTRACTOR SHALL VERIFY THE GROUNDING PATH IS CONTINUOUS AND UNINTERRUPTED BY DIELECTRIC DEVICES AND ANY OTHER DEVICE CAPABLE OF INTERFERING WITH THE GROUNDING PATH.

B. THE NEUTRAL POINTS OF ALL SECONDARY WINDINGS OF THE TRANSFORMERS SHALL BE GROUNDED TO THE NEAREST POINT ALLOWED BY THE NEC AND THE LOCAL ELECTRIC UTILITY COMPANY REQUIREMENTS.

C. METAL RACEWAYS, METAL ENCLOSURES OF ELECTRICAL DEVICES, LIGHTING FIXTURES, MOTOR FRAMES, SWITCHGEAR, PANELS, CABLE SUPPORTS, TRANSFORMER NEUTRALS, ETC. AND NON-CURRENT CARRYING METALLIC PARTS OF ALL EQUIPMENT SHALL BE SECURELY GROUNDED THROUGH THE EQUIPMENT GROUNDING CONDUCTOR.

5.2 GROUNDING MATERIALS

A. GROUND ROD: COPPER 3/4” DIAMETER X 10' LENGTH (UNLESS NOTED OTHERWISE).

B. MECHANICAL CONNECTORS: BRONZE.

5.3 GROUNDING INSTALLATION

A. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. PROVIDE BONDING TO MEET REGULATORY REQUIREMENTS.

C. MAKE ELECTRICAL CONNECTIONS TO UTILIZATION EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.

(i) VERIFY THAT WIRING AND OUTLET ROUGH-IN WORK IS COMPLETE AND THAT UTILIZATION EQUIPMENT IS READY FOR ELECTRICAL CONNECTION, WIRING, AND ENERGIZATION.

(ii) MAKE WIRING CONNECTIONS IN CONTROL PANEL OR IN WIRING COMPARTMENT OF PRE-WIRED EQUIPMENT. PROVIDE INTERCONNECTING WIRING WHERE INDICATED ON DRAWINGS OR BY MANUFACTURER.

(iii) INSTALL AND CONNECT DISCONNECT SWITCHES, CONTROLLERS, CONTROL STATIONS, AND CONTROL DEVICES AS INDICATED.

(iv) MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT. USE LIQUID-TIGHT FLEXIBLE CONDUIT IN DAMP OR WET LOCATIONS.

(v) INSTALL PRE-FABRICATED CORD SET WHERE CONNECTION WITH ATTACHMENT PLUG IS INDICATED OR SPECIFIED, OR USE ATTACHMENT PLUG WITH SUITABLE STRAIN-RELIEF CLAMPS.

(vi) PROVIDE SUITABLE STRAIN-RELIEF CLAMPS FOR CORD CONNECTIONS TO OUTLET BOXES AND EQUIPMENT CONNECTION BOXES.

D. INSTALL SUPPORT SYSTEMS SIZED AND FASTENED TO ACCOMMODATE WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.

(i) FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE USING BEAM CLAMPS.

(ii) USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY, PLASTER, OR GYPSUM BOARD PARTITIONS AND WALLS; EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS; SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES; SHEET METAL SCREWS IN SHEET METAL STUDS; AND WOOD SCREWS IN WOOD CONSTRUCTION.

(iii) DO NOT FASTEN SUPPORTS TO PIPING, CEILING SUPPORT WIRES, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.

(iv) DO NOT DRILL STRUCTURAL STEEL MEMBERS.

(v) INSTALL FREE-STANDING ELECTRICAL EQUIPMENT ON CONCRETE PADS.

(vi) INSTALL SURFACE-MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR (4) ANCHORS.

(vii) PROVIDE STEEL CHANNEL SUPPORTS TO STAND CABINETS 1” OFF WALL IN WET LOCATIONS.

(viii) BRIDGE STUDS TOP AND BOTTOM WITH CHANNELS TO SUPPORT FLUSH-MOUNTED CABINETS AND PANELBOARDS IN STUD WALLS.

E. IDENTIFY ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT, AND LOADS SERVED, TO MEET REGULATORY REQUIREMENTS AND AS SCHEDULED.

(i) DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND TAPE LABELS.

(ii) SECURE NAMEPLATES TO EQUIPMENT FRONTS WITH EDGES PARALLEL TO EQUIPMENT LINES USING SCREWS OR RIVETS FOR INTERIOR EQUIPMENT AND USING SELF-ADHESIVE NAMEPLATES FOR EXTERIOR OR WET LOCATION EQUIPMENT. SECURE NAMEPLATE TO INSIDE FACE OF RECESSED PANELBOARD DOORS IN FINISHED LOCATIONS.

(iii) USE NAMEPLATES WITH 1/8” LETTERING TO IDENTIFY INDIVIDUAL SWITCHES AND CIRCUIT BREAKERS, WALL SWITCHES, RECEPTACLE CIRCUITS, AND LOADS SERVED.

(iv) USE NAMEPLATES WITH 1/4” LETTERS TO IDENTIFY DISTRIBUTION AND CONTROL EQUIPMENT.

F. GROUNDING INSTALLATION

(i) THE METHOD OF GROUNDING AND SIZE OF THE GROUNDING CONDUCTORS SHALL BE SELECTED IN ACCORDANCE WITH THE LATEST PUBLISHED RULES OF THE NEC AND NFPA 70 ARTICLE 250. AN EQUIPMENT GROUNDING CONDUCTOR WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH TABLE 250.122, SHALL BE INSTALLED IN ALL FEEDERS INCLUDING MOTOR FEEDERS.

(ii) RUN A GREEN EQUIPMENT GROUND WIRE WITH ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS THROUGHOUT THE BUILDING.

(iii) EQUIPMENT GROUNDING LUGS SHALL BE PROVIDED FOR ALL FEEDERS AND SUBFEEDERS AT ALL PULLBOXES AND EQUIPMENT CABINETS.

(iv) GROUND CABLE SHALL BE CONTINUOUS WHEN POSSIBLE WITHOUT JOINTS OR SPLICES THROUGHOUT ITS LENGTH. IF BARE GROUND CONDUCTORS ARE RUN THROUGH METALLIC CONDUIT, THEY SHALL BE SECURELY BONDED TO EACH CONDUIT AT THE ENTRANCE AND EXIT. ALL CONNECTIONS TO EQUIPMENT FOR CONDUIT SHALL BE MADE WITH SOLDERLESS CONNECTORS, AND THE SAME SHALL BE THOROUGHLY CLEANED AND BRIGHT BEFORE CONNECTION IS MADE SO AS TO ENSURE A GOOD METAL CONTACT.

(v) ASSURE ELECTRICAL CONTINUITY OF METALLIC RACEWAY SYSTEM. PROVIDE BONDING JUMPERS WHEREVER EXPANSION JOINT OCCURS.

(vi) AN INSULATED GREEN GROUND SHALL BE PROVIDED IN ALL FLEXIBLE METALLIC TUBING.

(vii) THE GROUND RESISTANCE OF THE GROUNDING SYSTEM SHALL NOT EXCEED FIVE (5) OHMS.

G. INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.

(i) USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY POWER AND LIGHTING CIRCUITS.

(ii) USE CONTROL WIRE NUMBER AS INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS TO IDENTIFY CONTROL WIRING.

PART 6 - RACEWAYS

6.1 PRODUCT REQUIREMENTS

A. ALL WIRING SHALL BE IN CONDUIT.

B. NO “ROMEX” OR ARMORED CABLE WIRING IS PERMITTED.

C. USE ONLY SPECIFIED RACEWAY IN THE FOLLOWING LOCATIONS:

(i) ABOVE GROUND: USE RIGID STEEL, METAL CLAD (MC) CABLE, OR ELECTRICAL METALLIC TUBING (EMT). MC CABLE SHALL BE INSTALLED ONLY WHERE PERMITTED BY CODE AND THE AHJ.

a. WET LOCATIONS: RIGID STEEL CONDUIT. USE THREADED OR RAINTIGHT FITTINGS FOR METAL CONDUIT.

b. LOCATIONS SUBJECT TO MECHANICAL DEFORMATION: RIGID STEEL.

c. DRY INTERIOR LOCATIONS FOR BRANCH CIRCUIT WIRING AND NOT SUBJECT TO MECHANICAL DEFORMATION: EMT OR MC.

(ii) UNDERGROUND: USE RIGID STEEL OR PLASTIC CONDUIT WITH RIGID STEEL ELLS AND RIGID STEEL CONDUIT/FITTINGS WHEN EMERGING FROM GRADE, UNLESS NOTED OTHERWISE.

a. INSTALLATIONS WITHIN 5' FROM FOUNDATION WALL: RIGID STEEL.

b. INSTALLATIONS MORE THAN 5' FROM FOUNDATION WALL: PLASTIC CONDUIT.

c. INSTALLATIONS IN OR UNDER CONCRETE SLAB: PLASTIC CONDUIT.

d. IN SLAB ABOVE GRADE: RIGID STEEL OR PLASTIC CONDUIT.

e. EXPOSED OUTDOOR LOCATIONS: RIGID STEEL. USE THREADED OR RAINTIGHT FITTINGS.

f. PROVIDE ALL UNDERGROUND CONDUIT SIZES 2” AND LARGER WITH LONG SWEEP ELLS (MINIMUM 36” RADIUS).

(iii) USE FLEXIBLE CONDUITS IN THE FOLLOWING APPLICATIONS (MAXIMUM 6').

a. AT BUILDING JOINTS.

b. AT WET LOCATIONS, FLEXIBLE CONDUIT SHALL BE LIQUID-TIGHT TYPE.

(iv) ALL CONDUIT AND MC CABLE SHALL BE SUPPORTED AS REQUIRED BY THE NEC.

D. SIZE RACEWAYS FOR CONDUCTOR TYPE INSTALLED.

(i) MINIMUM SIZE CONDUIT: 3/4”.

(ii) MINIMUM SIZE CONDUIT IN SLABS ABOVE GRADE: 3/4”.

(iii) MINIMUM SIZE MC CABLE: 1/2”.

6.2 CONDUITS AND FITTINGS

A. CONDUITS

(i) METAL CONDUIT AND TUBING: GALVANIZED STEEL, MANUFACTURED BY ALLIED, TRIANGLE, WHEATLAND, PITTSBURG, STEELDUCT, OR APPROVED EQUIVALENT.

(ii) FLEXIBLE CONDUIT: STEEL.

(iii) LIQUID-TIGHT FLEXIBLE CONDUIT: FLEXIBLE CONDUIT WITH PVC JACKET.

(iv) PLASTIC CONDUIT AND TUBING: NEMA TC 2; PVC. USE SCHEDULE 40 CONDUIT.

(v) MC TYPE CABLE: INTERLOCKED STEEL METAL TAPE WITH GROUND WIRE, MEETING ANSI / NFPA 70 REQUIREMENTS, MANUFACTURED BY AFC CABLE SYSTEMS, PIRELLI CABLE CORPORATION, SOUTHWIRE COMPANY, OR APPROVED EQUIVALENT.

B. CONDUIT FITTINGS

(i) METAL FITTINGS AND CONDUIT BODIES: NEMA FB 1. ALUMINUM FITTINGS SHALL NOT BE USED.

(ii) PLASTIC FITTINGS AND CONDUIT BODIES: NEMA TC 3.

6.3 ELECTRICAL BOXES

A. BOXES

(i) SHEET METAL: NEMA OS 1; GALVANIZED STEEL.

B. FLOOR BOXES FOR INSTALLATION IN POURED CONCRETE FLOORS: CAST STEEL.

C. HINGED COVER ENCLOSURES: NEMA 250, TYPE 1, STEEL ENCLOSURE WITH MANUFACTURER'S STANDARD ENAMEL FINISH AND CONTINUOUS HINGE COVER, HELD CLOSED BY FLUSH LATCH OPERABLE BY SCREWDRIVER.

6.4 EXAMINATION AND PREPARATION

A. VERIFY THAT SUPPORTING SURFACES ARE READY TO RECEIVE WORK.

B. ELECTRICAL BOXES ARE SHOWN ON DRAWINGS, IN APPROXIMATE LOCATIONS, UNLESS DIMENSIONED. OBTAIN VERIFICATION FROM ARCHITECT FOR FLOOR BOX LOCATIONS, AND LOCATIONS OF OUTLETS IN OFFICES AND WORK AREAS, PRIOR TO ROUGH-IN.

6.5 INSTALLATION

A. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT NEAT APPEARANCE. COORDINATE WITH ATTIC WALKWAY TO MAINTAIN ACCESS.

(i) ALL CONDUIT ROUTINGS, INCLUDING MC CABLE, SHALL BE PARALLEL AND PERPENDICULAR TO ADJACENT PIPING, BUILDING STRUCTURE AND LINES. CONDUITS SHALL BE CONCEALED, WHERE POSSIBLE, UNLESS NOTED OTHERWISE. AESTHETIC APPEARANCE IS VERY IMPORTANT FOR THE WORK OF THIS PROJECT. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE WORK THAT IS NOT NEAT AND ACCURATE. UNDERGROUND ROUTINGS, IF ANY, BETWEEN BUILDINGS MAY TAKE MOST DIRECT ROUTE.

(ii) MAINTAIN MINIMUM 6” CLEARANCE TO PIPING AND 12” CLEARANCE TO HEAT SURFACES SUCH AS FLUES, STEAM PIPES, AND HEATING APPLIANCES.

(iii) MAINTAIN REQUIRED FIRE, ACOUSTIC, AND VAPOR BARRIER RATING WHEN PENETRATING WALLS, FLOORS, AND CEILINGS. USE NELSON “FLAMESEAL” FIRESTOP PUTTY OR CAULK TO RETAIN THE INTEGRITY OF THE FIRE AND SMOKE PARTITIONS.

(iv) GROUP IN PARALLEL RUNS WHERE PRACTICAL. USE RACK CONSTRUCTED OF STEEL CHANNEL. MAINTAIN SPACING BETWEEN RACEWAYS OR DERATE CIRCUIT AMPACITIES TO NFPA 70 REQUIREMENTS.

(v) USE CONDUIT HANGERS AND CLAMPS; DO NOT FASTEN WITH WIRE OR PERFORATED PIPE STRAPS.

(vi) USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION.

(vii) TERMINATE CONDUIT STUBS WITH INSULATED BUSHINGS.

(viii) USE SUITABLE CAPS TO PROTECT INSTALLED RACEWAY AGAINST ENTRANCE OF DIRT AND MOISTURE.

(ix) PROVIDE 12 AWG INSULATED CONDUCTOR OR SUITABLE PULL STRING IN EMPTY RACEWAYS, EXCEPT SLEEVES AND NIPPLES.

(x) IDENTIFY EACH JUNCTION, PULL AND TERMINATION POINT USING PERMANENT METALLIC TAGS OR PERMANENT MARKER. IDENTIFICATION SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION, AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.

(xi) INSTALL EXPANSION JOINTS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.

(xii) INSTALL PLASTIC CONDUIT AND TUBING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

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Project No.: 21117.M.AUS

SITE PLAN APPROVAL SHEET ___________ OF ___________
FILE NUMBER ___________________________ APPLICATION DATE ___________
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_______________ OF CHAPTER ______________ OF THE CITY OF AUSTIN CODE.
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DWPZ ______________________ DDZ __________________

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DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
RELEASED FOR GENERAL COMPLIANCE: ___________ ZONING ___________
REV. 1 __________________________ CORRECTION 1 ______________________
REV. 2 __________________________ CORRECTION 2 ______________________
REV. 3 __________________________ CORRECTION 3 ______________________

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REV. NO.	BY	DATE	REVISION DESCRIPTION

SHARON S. BICKFORD
77390
06/07/24

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTON AT OAK HILL
BRANCH LIBRARY PROJECT

FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	06/07/24
DESIGNED BY	OO	06/07/24
CHECKED BY	ZX	06/07/24
REVIEWED BY	RE	06/07/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

ELECTRICAL
SPECIFICATIONS

E0.01 13 OF 18

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B. INSTALL ELECTRICAL BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS AND REGULATORY REQUIREMENTS.
   (i) USE CAST OUTLET BOX IN EXTERIOR LOCATIONS EXPOSED TO WEATHER AND WET LOCATIONS.
   (ii) USE HINGED COVER ENCLOSURE FOR INTERIOR PULL AND JUNCTION BOX LARGER THAN 12" IN ANY DIMENSION.
   (iii) LOCATE AND INSTALL ELECTRICAL BOXES TO ALLOW ACCESS. PROVIDE ACCESS PANELS IF REQUIRED.
   (iv) LOCATE AND INSTALL ELECTRICAL BOXES TO MAINTAIN HEADROOM AND TO PRESENT NEAT MECHANICAL APPEARANCE.
   (v) INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS OR IN UNFINISHED AREAS.
   (vi) PROVIDE KNOCKOUT CLOSURES FOR UNUSED OPENINGS.
   (vii) ALIGN WALL-MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.
   (viii) COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS ABOVE COUNTERS, ETC. WITH THE ARCHITECT.
   (ix) SPLICES IN EXTERIOR PULLBOXES SHALL BE MADE WATERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL" OR APPROVED EQUAL.

PART 7 - WIRES AND CABLES

7.1 QUALITY ASSURANCE
- A. PERFORM WORK IN ACCORDANCE WITH NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) STANDARD OF INSTALLATION.

7.2 REGULATORY REQUIREMENTS
- A. CONFORM TO REQUIREMENTS OF NFPA 70.
- B. FURNISH PRODUCTS LISTED BY UL.

7.3 WIRING METHODS
- A. CONCEALED INTERIOR LOCATIONS: BUILDING WIRE IN RACEWAY.
- B. EXPOSED INTERIOR LOCATIONS: BUILDING WIRE IN RACEWAY.
- C. ABOVE ACCESSIBLE CEILINGS: BUILDING WIRE IN RACEWAY.
- D. WET OR DAMP INTERIOR LOCATIONS: BUILDING WIRE IN RACEWAY.
- E. EXTERIOR LOCATIONS: BUILDING WIRE IN RACEWAYS.
- F. UNDERGROUND LOCATIONS: BUILDING WIRE IN RACEWAY.
- G. USE NO WIRE SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS, AND NO SMALLER THAN 14 AWG FOR LINE VOLTAGE CONTROL WIRING. USE MINIMUM 18 GAUGE WIRE FOR LOW-VOLTAGE (LESS THAN 30 VAC) CONTROL WIRING. USE 10 AWG CONDUCTOR FOR 20 AMPERE, 120 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 50'. VERIFY MINIMUM VOLTAGE DROP PER NEC FINE PRINT NOTES.

7.4 WIRE AND CABLE
- A. MANUFACTURERS
  - (i) TRIANGLE, SOUTHWIRE, OR CABLEC.
- B. BUILDING WIRE
  - (i) FEEDERS AND BRANCH CIRCUITS LARGER THAN 6 AWG: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, THHN/THWN.
  - (ii) FEEDERS AND BRANCH CIRCUITS 6 AWG AND SMALLER: COPPER CONDUCTOR, 600 VOLT INSULATION, THHN/THWN. 6 AND 8 AWG, STRANDED CONDUCTOR; SMALLER THAN 8 AWG, SOLID CONDUCTOR.
  - (iii) CONTROL CIRCUITS: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, AS REQUIRED BY CONTROLS MANUFACTURER AND NEC.

7.6 EXAMINATION AND PREPARATION
- A. VERIFY THAT INTERIOR OF BUILDING IS PHYSICALLY PROTECTED FROM WEATHER.
- B. VERIFY THAT MECHANICAL WORK WHICH IS LIKELY TO INJURE CONDUCTORS HAS BEEN COMPLETED.
- C. COMPLETELY AND THOROUGHLY SWAB RACEWAY SYSTEM BEFORE INSTALLING CONDUCTORS.

7.7 INSTALLATION
- A. NEATLY TRAIN AND SECURE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
- B. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITHOUT PERCEPTIBLE TEMPERATURE RISE.
- C. TERMINATE SPARE CONDUCTORS WITH ELECTRICAL TAPE.

PART 8 - LIGHTING

8.1 SUBMITTALS
- A. PRODUCT DATA: PROVIDE PRODUCT DATA FOR EACH LUMINAIRE AND LIGHTING UNIT.
- B. OPERATING AND MAINTENANCE (O&M) INSTRUCTIONS: PROVIDE MAINTENANCE AND OPERATING INSTRUCTIONS FOR BATTERY POWERED LIGHTING UNITS.

8.2 REGULATORY REQUIREMENTS
- A. CONFORM TO REQUIREMENTS OF ANSI / NFPA 70.
- B. CONFORM TO REQUIREMENTS OF NFPA 101.
- C. FURNISH PRODUCTS LISTED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) TESTING FIRM ACCEPTABLE TO AHJ.

8.3 EXAMINATION AND PREPARATION
- A. EXAMINE ADJACENT SURFACES TO DETERMINE THAT SURFACES ARE READY TO RECEIVE WORK.

8.4 INSTALLATION
- A. INSTALL LUMINAIRES AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - (i) INSTALL LAMPS IN LUMINAIRES AND LAMPHOLDERS, UNLESS LAMPS ARE PRE-INSTALLED BY MANUFACTURER.

8.5 ADJUSTING AND CLEANING
- A. ALIGN LUMINAIRES AND CLEAN LENSES AND DIFFUSERS AT COMPLETION OF WORK.
- B. AIM ADJUSTABLE LUMINAIRES AND LAMPHOLDERS AS INDICATED OR AS DIRECTED.
- C. CLEAN PAINT SPLATTERS, DIRT AND DEBRIS FROM INSTALLED LUMINAIRES.
- D. TOUCH UP LUMINAIRES' FINISH AT COMPLETION OF WORK.
- E. RE-LAMP LUMINAIRES WHICH HAVE FAILED LAMPS AT COMPLETION OF WORK.

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STATE OF TEXAS
SHARON S. BICKFORD
77390
LICENSED
PROFESSIONAL ENGINEER
06/07/24

CITY OF AUSTIN, TEXAS
TRANSPORTATION AND PUBLIC WORKS

HAMPTON AT OAK HILL
BRANCH LIBRARY PROJECT

CITY OF AUSTIN
FOUNDED 1839

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ELECTRICAL SPECIFICATIONS

E0.02 | 14 OF 18

SITE PLAN APPROVAL SHEET _____ OF _____
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RELEASED FOR GENERAL COMPLIANCE: _____ ZONING _____
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Project No.: 21117.M.AUS

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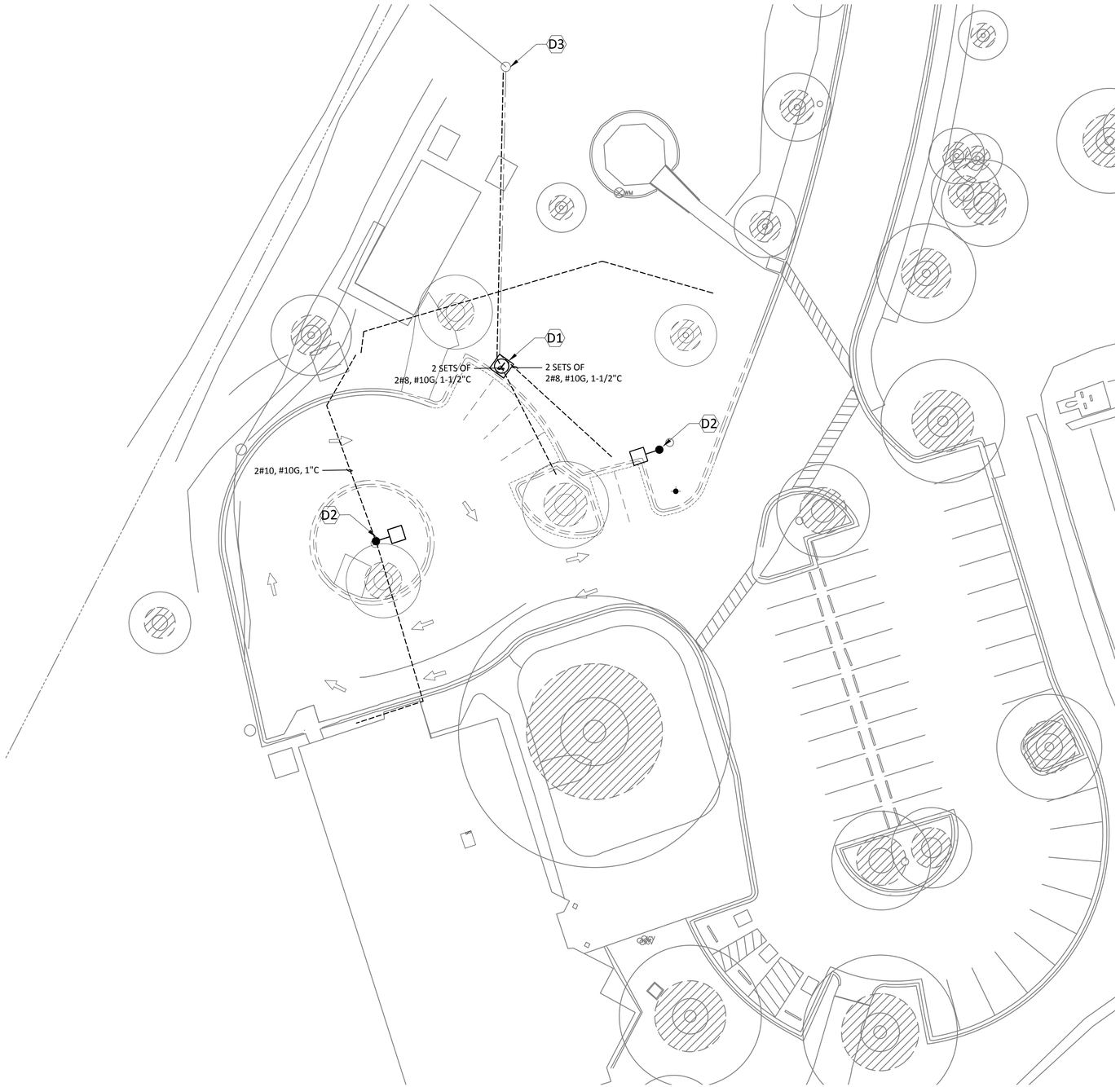

GENERAL NOTES

A. THESE PLANS ARE DIAGRAMMATIC IN NATURE. HANDHOLES SHALL BE LOCATED IN COORDINATION WITH OTHER SITE ELEMENTS AND SHALL BE FIELD STAKED PRIOR TO INSTALLATION.

B. CONTRACTOR IS RESPONSIBLE IN TESTING EXISTING CABLING INSULATION INTEGRITY USING THE INSULATION INTEGRITY TEST. SHOULD A CABLE BE DEEMED AS DAMAGED, THE CONTRACTOR SHALL REPORT FINDINGS TO ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL REPLACE DEFICIENT CABLE WITH A NEW CONDUCTOR OF EQUAL GAUGE AND TEMPERATURE CLASS SHIELDING.

KEYED NOTES

D1 EXISTING EV CHARGER TO BE RELOCATED. EXTEND FEEDER TO NEW LOCATION. REFER TO SHEET E1.01.

D2 PARKING LOT LAMP, POLE, AND CONCRETE BASE TO BE REMOVED. REUSE UNDERGROUND CONDUIT ROUTING WHERE APPLICABLE. EXTEND CONDUIT, CONDUCTOR AND CONTROL WIRE TO NEW LOCATIONS AND REUSE EXISTING CIRCUIT. REFER TO SHEET E1.01.

D3 REMOVE AND UPSIZE EXISTING OVERHEAD SERVICE AND METER DIRECTLY SERVING EV CHARGER.

1 DEMOLITION SITE PLAN
1" = 20'

NORTH

SITE PLAN APPROVAL SHEET _____ OF _____
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DWPZ _____ DDZ _____

_____
DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
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REV. 1 _____ CORRECTION 1 _____
REV. 2 _____ CORRECTION 2 _____
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ENCOTECH
ENGINEERING CONSULTANTS
TBPE Firm 1141 | 8500 Bluffstone Cove, Suite B-103 Austin, Texas 78759 | 512.338.1101
Project No.: 21117.M.AUS

REV NO.	BY	DATE	REVISION DESCRIPTION

STATE OF TEXAS
SHARON S. BICKFORD
77390
LICENSED
PROFESSIONAL ENGINEER
06/07/24

CITY OF AUSTIN
TRANSPORTATION AND PUBLIC WORKS

HAMPTON AT OAK HILL
BRANCH LIBRARY PROJECT

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	HALFF	####
DRAWN BY	ALY	06/07/24
DESIGNED BY	OO	06/07/24
CHECKED BY	ZX	06/07/24
REVIEWED BY	RE	06/07/24

halff
5113 SOUTHWEST PRWY., SUITE 140
AUSTIN, TEXAS 78735
(737) 270-8700

DEMOLITION SITE PLAN

ED1.01 | 15 OF 18

WILL UDOH

J:\ACTIVE PROJECTS\21117.M.AUS COA - CEPEDA & WILL HAMPTON LIBRARIES\1. MEP\D-AUTOCAD\ENCOTECH - ELECTRICAL - HAMPTON LIBRARY.DWG, ---, COA_PLOT_STYLES.STB
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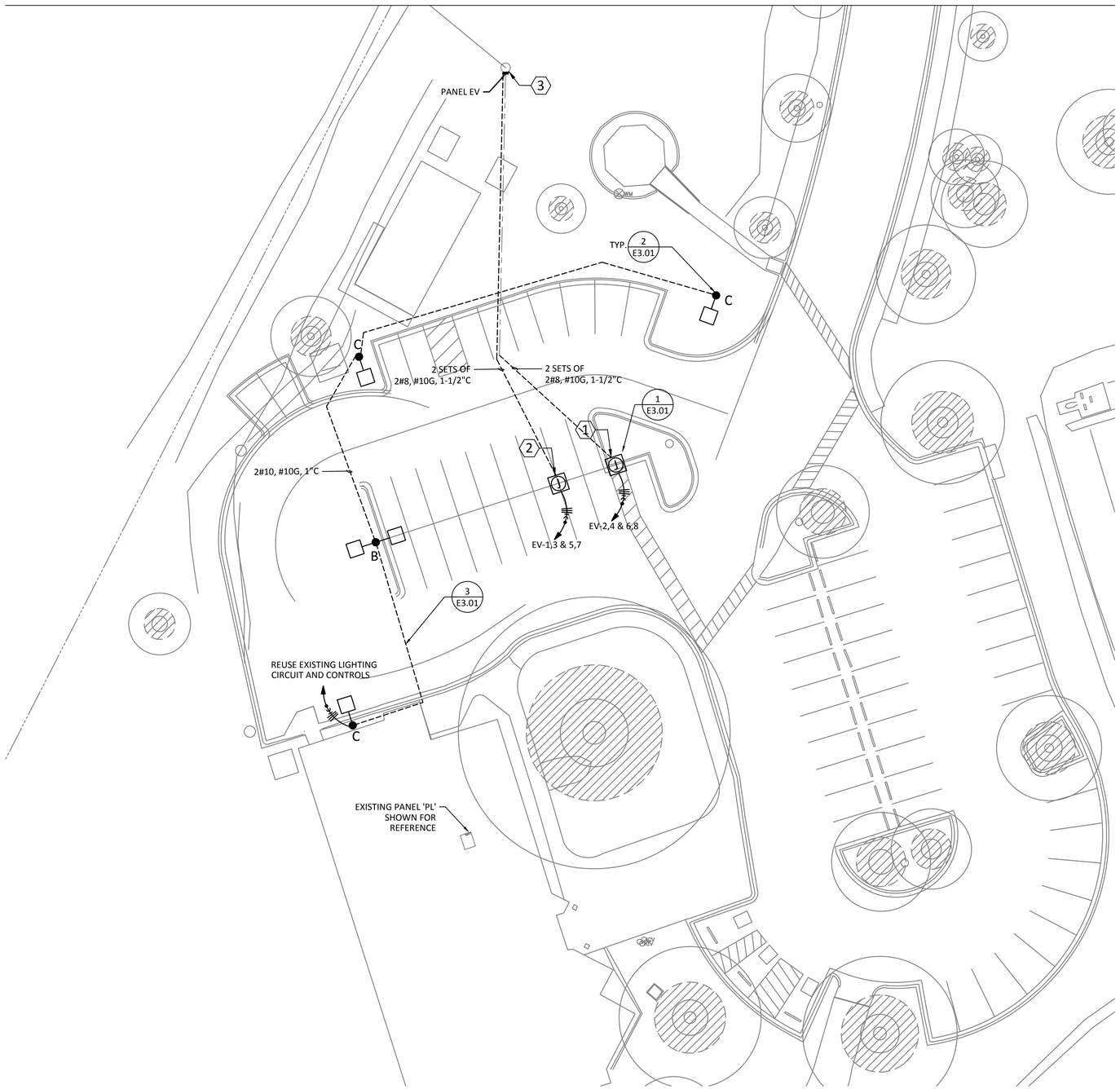

1 PROPOSED ELECTRICAL SITE PLAN
1" = 20'

NORTH

GENERAL NOTES

A. THESE PLANS ARE DIAGRAMMATIC IN NATURE. HANDHOLES SHALL BE LOCATED IN COORDINATION WITH OTHER SITE ELEMENTS AND SHALL BE FIELD STAKED PRIOR TO INSTALLATION.

B. CONDUITS SHALL BE ROUTED BETWEEN TREES SO NO GREATER THAN 50% OF THE AREA BETWEEN THE 1/2 CRITICAL ROOT ZONE AND FULL CRITICAL ROOT ZONE IS IMPACTED, THE 1/2 CRITICAL ROOT ZONE HAS A CUT NO GREATER THAN 4", AND THE 1/4 CRITICAL ROOT ZONE HAS NO CUTS. FULL CRITICAL ROOT ZONE IS MEASURED AS 1 INCH OF TREE DIAMETER = 1 FOOT RADIUS OF CRITICAL ROOT ZONE. SEE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL FOR MORE INFORMATION.

C. LIGHT POLE LAYOUT IS BASED UPON EXISTING LITHONIA LAMPS. MATCH POLE COLOR AND FINISH TO EXISTING SITE POLES.

D. NEW LIGHT POLES TO BE POWERED BY EXISTING 208V-1 PHASE SITE LIGHTING BRANCH CIRCUIT ON PANEL 'PL' (SHOWN FOR REFERENCE). LIGHTS ARE TO BE WIRED AND CONTROLLED WITH EXISTING PHOTOCELL SWITCH ON THE ROOF.

KEYED NOTES

1. RELOCATE EXISTING EV CHARGER TO THIS LOCATION AND REUSE EXISTING ROUTING TO NEW PANEL EV. PROVIDE NEW BREAKERS IN NEW PANEL.
2. INSTALL NEW EV CHARGER AT THIS LOCATION. PROVIDE CIRCUIT FROM NEW 200A PANEL EV.
3. PROVIDE NEW UTILITY TRANSFORMER FOR 200A 120/240V 1PH SERVICE AND 200A SERVICE RATED PANEL 'EV'

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PROPOSED
ELECTRICAL SITE
PLAN

E1.01 | 16 OF 18

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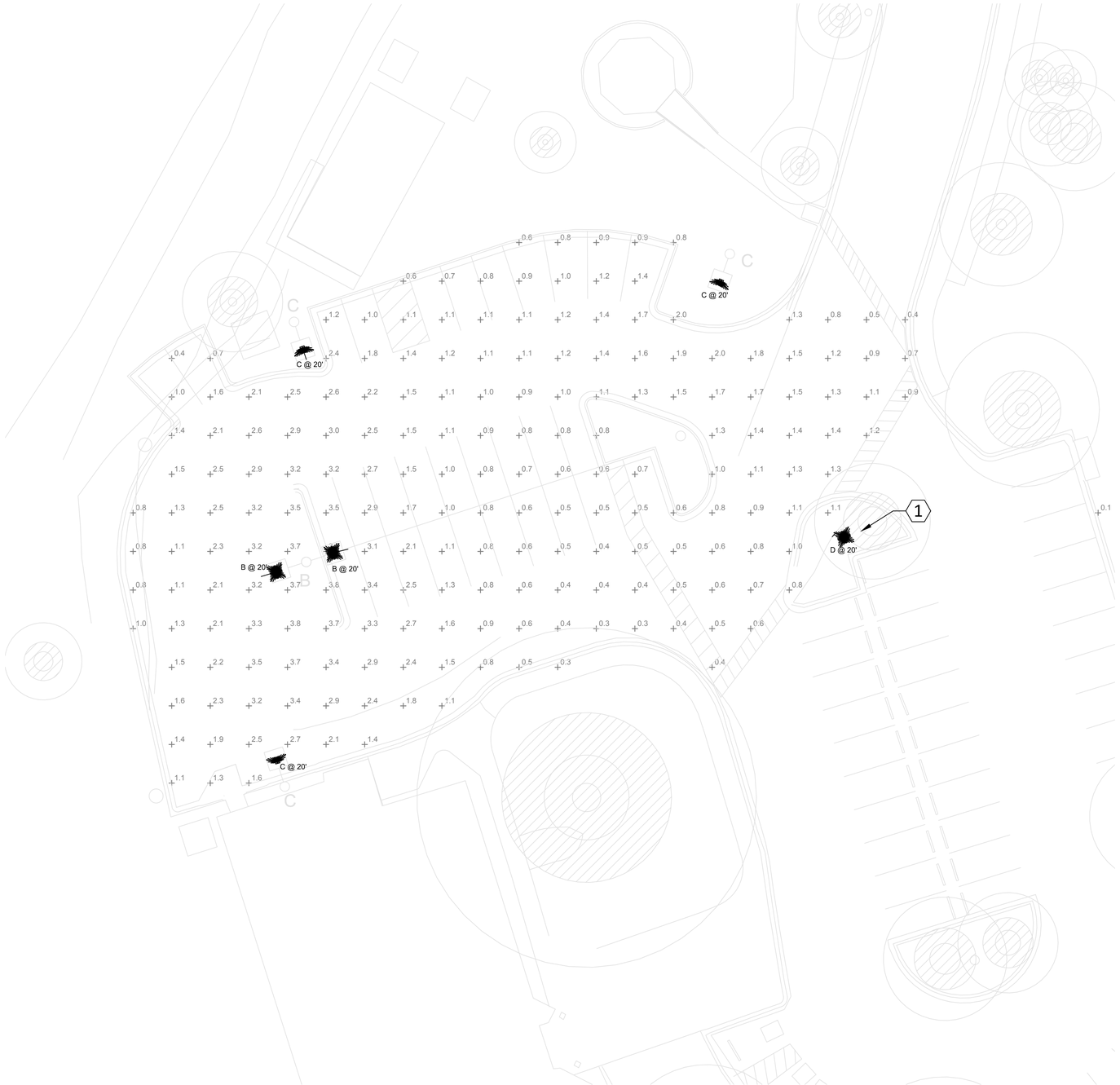

Photometrics Calculations						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot Zone	+	1.5 fc	3.8 fc	0.1 fc	38.0:1	15.0:1

GENERAL NOTES

A. PHOTOMETRICS ARE BASED ON LIGHT FIXTURE FOUNDATION AND POLE HEIGHT SPECIFIED AS BASIS OF DESIGN.

B. FOOTCANDLES ARE MEASURED AT GRADE.

C. BASED ON CALCULATED PHOTOMETRIC RESULTS, ILLUMINANCE AT THE PROPERTY LINE WILL BE IMMEASURABLE.

KEYED NOTES

1. EXISTING LIGHT SHOWN FOR CALCULATION PURPOSES.

1 SITE PHOTOMETRICS
1/6" = 1'-0"

NORTH

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ELECTRICAL CALCULATIONS

E2.01 | 17 OF 18

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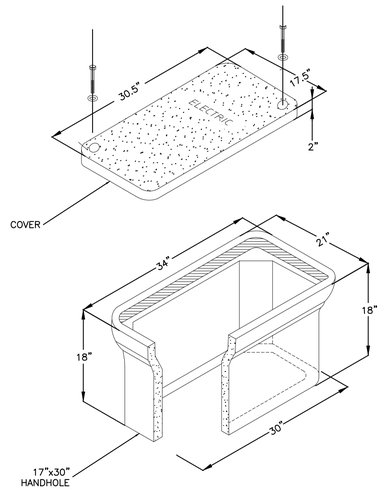
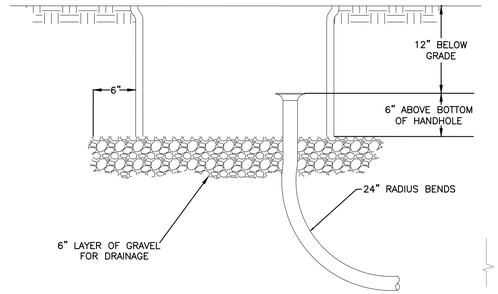
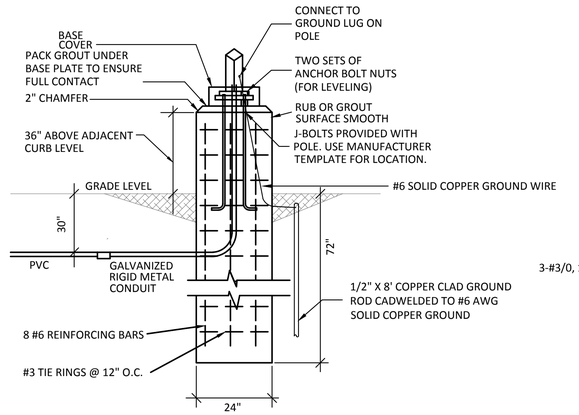
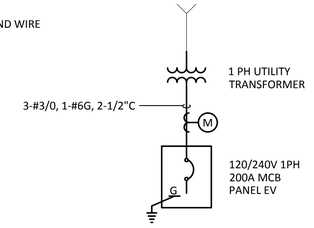


1 HANDHOLE DETAIL
NOT TO SCALE





2 POLE BASE DETAIL
NOT TO SCALE



3 EV CHARGER ONE-LINE DIAGRAM
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	VOLTAGE	LAMPING QTY	LAMPING WATTAGE	LAMPING TYPE	LAMPING TEMP	MOUNTING	DESCRIPTION
B	LITHONIA LIGHTING	DSX0 LED P3 30K 80CRI T5M SSS 20 5C	120/277	1	69W	LED	3000K	POLE MOUNTED @20FT	D-SERIES SIZE 0 AREA LUMINAIRE P2 PERFORMANCE PACKAGE 3000K CCT 80 CRI TYPE 5 MEDIUM
C	LITHONIA LIGHTING	DSX0 LED P3 30K 80CRI T3M SSS 20 5C	120/277	1	69W	LED	3000K	POLE MOUNTED @20FT	D-SERIES SIZE 0 AREA LUMINAIRE P2 PERFORMANCE PACKAGE 3000K CCT 80 CRI TYPE 3 MEDIUM

NOTES:
1. SITE LIGHTING TO BE CONNECTED TO EXISTING CIRCUIT AND CONTROLS IN THE AREA.
2. FINISHES TO BE SELECTED FROM STANDARD MFR. COLORS BY CLIENT/OWNER DURING SUBMITTAL PHASE.

PANELBOARD SCHEDULE — NEW — EV

LOCATION: UNKNOWN
C.B. RATING: 22 K.A.I.C.

WIRE SIZE	TYPE	VOLTAGE	PHASE	WIRE	MOUNTING	BUS (A)	LUG	TYPE	TYPE	WIRE SIZE
		240/120V	1	3	SURFACE	200	MCB	NEMA 3R		
		USE and/or AREA SERVED		C/B POLE	CIR	LOAD ØA	LOAD ØB	CIR	C/B POLE	USE and/or AREA SERVED
#8		EV CHARGER		40A/2	1	3600		2	40A/2	EV CHARGER
					3	3600	3600	4		
#8		EV CHARGER		40A/2	5	3600		6	40A/2	EV CHARGER
					7	3600	3600	8		
		SPARE		20A/1	9	0		10	20A/1	SPARE
		SPARE		20A/1	11	0	0	12	20A/1	SPARE
		SPARE		20A/1	13	0		14	20A/1	SPARE
		SPARE		20A/1	15		0	16	20A/1	SPARE
		SPACE		20A/1	17	-		18	20A/1	SPACE
		SPACE		20A/1	19		-	20	20A/1	SPACE
		EXISTING LOAD		20A/1	21	360		22	20A/1	EXISTING LOAD
		EXISTING LOAD		20A/1	23		360	24	20A/1	EXISTING LOAD
TOTAL LOAD PER PHASE						15120	15120			LARGEST PHASE AMPS: 15120 VA / 120 V = 126 A

① GFCI ② AFCI ③ AFCI/GFCI ④ SHUNT TRIP ⑤ SWD ⑥ HACR ⑦ LOCKABLE — OPTIONS: NONE - REFER TO SPECIFICATIONS

FEEDER OCPD AND CONDUCTOR CALCULATION

LOAD DESCRIPTION (LOAD IN KVA)	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	LOAD MULTIPLIER	FEEDER LOAD	NOTES
LIGHTING	0.00	1.00	0.00	1.25	0.00	
RECEPTACLES	1.44	50%>10	1.44	1.00	1.44	
LARGEST MOTOR	0.00	1.00	0.00	1.25	0.00	
OTHER MOTOR(S)	0.00	1.00	0.00	1.00	0.00	
HEATING	0.00	1.00	0.00	1.25	0.00	
CONTINUOUS LOADS	28.80	1.00	28.80	1.25	36.00	
NONCONTINUOUS LOADS	0.00	1.00	0.00	1.00	0.00	
KITCHEN EQUIPMENT QTY = 0	0.00	1.00	0.00	1.00	0.00	
DIVERSIFIED LOAD	0.00	1.00	0.00	0.50	0.00	
TOTAL KVA	**30.24**	-	-	-	**37.44**	
TOTAL AMPS	**126 A**	-	-	-	**156 A**	

PANELBOARD SCHEDULE — EXISTING — PL

LOCATION: ELEC ROOM 123
C.B. RATING: 22 K.A.I.C.

WIRE SIZE	TYPE	VOLTAGE	PHASE	WIRE	MOUNTING	BUS (A)	LUG	TYPE	TYPE	WIRE SIZE
		208Y/120V	3	4	SURFACE	100	MCB	NEMA 1		
		USE and/or AREA SERVED		C/B POLE	CIR	LOAD ØA	LOAD ØB	LOAD ØC	CIR	C/B POLE	USE and/or AREA SERVED
		PHOTOCELL & CONTACTOR		20/1	1	100			2	20/1	LTG. RM. 105 NW
		LTG RM.108,109,113,110-114		20/1	3	1620	1140		4	20/1	LTG. RM. 105 NE
		SPARE		20/1	5		1620	-	6	20/1	LTG. RM. 104
		LTG RM.117-121,123		20/1	7	660		1440	8	20/1	LTG. RM. 103 NW
		LTG CANOPY & BLDG.		20/1	9	1350	900		10	20/1	LTG. RM. 103 NE
		SPARE		20/1	11		1350	-	12	20/1	LTG. RM. 101
		SPARE		20/1	13	-		1152	14	20/1	LTG. RM. 102 & COVE LTG RM. 101
		SPARE		20/1	15	1326	-		16	20/1	LTG. RM. 106
		SPARE		20/1	17		960	-	18	20/1	LTG. RM. 106,116,124,126
		SPARE		20/1	19	-		860	20	20/2	LTG TREE, BALLARD & SIGN
		SPARE		20/1	21	305	-		22		
		SPACE		-	23		588	-	24	20/2	LTG. PARKING ⑴
		SPACE		-	25	-		1395	26		
		SPACE		-	27	1395	-		28	-	SPACE
		SPACE		-	29		-	-	30	-	SPACE
		SPACE		-	31	-			32	-	SPACE
		SPACE		-	33	-	-		34	-	SPACE
		SPACE		-	35		-	-	36	-	SPACE
		SPACE		-	37	-			38	-	SPACE
		SPACE		-	39	-	-		40	-	SPACE
		SPACE		-	41		-	-	42	-	SPACE
TOTAL LOAD PER PHASE						6756	6558	4847			6756 VA / 120 V = 56 A

① GFCI ② AFCI ③ AFCI/GFCI ④ SHUNT TRIP ⑤ SWD ⑥ HACR ⑦ LOCKABLE — OPTIONS: NONE - REFER TO SPECIFICATIONS

FEEDER OCPD AND CONDUCTOR CALCULATION

LOAD DESCRIPTION (LOAD IN KVA)	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	LOAD MULTIPLIER	FEEDER LOAD	NOTES
LIGHTING	18.16	1.00	18.16	1.25	22.70	
RECEPTACLES	0.00	50%>10	0.00	1.00	0.00	
LARGEST MOTOR	0.00	1.00	0.00	1.25	0.00	
OTHER MOTOR(S)	0.00	1.00	0.00	1.00	0.00	
HEATING	0.00	1.00	0.00	1.25	0.00	
CONTINUOUS LOADS	0.00	1.00	0.00	1.25	0.00	
NONCONTINUOUS LOADS	0.00	1.00	0.00	1.00	0.00	
KITCHEN EQUIPMENT QTY = 0	0.00	1.00	0.00	1.00	0.00	
DIVERSIFIED LOAD	0.00	1.00	0.00	0.50	0.00	
TOTAL KVA	**18.16**	-	-	-	**22.70**	
TOTAL AMPS	**50 A**	-	-	-	**63 A**	

KEYED NOTES

1. EXISTING SITE LIGHTING CIRCUIT TO BE REUSED.

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06/07/24

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TRANSPORTATION AND PUBLIC WORKS

HAMPTON AT OAK HILL
BRANCH LIBRARY PROJECT

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ELECTRICAL DETAILS

E3.01 | 18 OF 18

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