



RECHARGE & TRANSITION ZONE EXCEPTION

FOR

YMCA TWIN LAKES DRAINAGE IMPROVEMENTS

204 E. LITTLE ELM TRAIL
CEDAR PARK, TEXAS 78613

APPLICANT:
YMCA OF GREATER WILLIAMSON COUNTY
1812 N. MAYS STREET
ROUND ROCK, TEXAS 78664

SUBMITTED TO:
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
REGION 11 OFFICE
12100 PARK 35 CIRCLE, BLDG A.
AUSTIN, TEXAS 78753

JUNE 2023

HEA#22-032

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 if not withdrawn the application will be denied and 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 to you:

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- 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 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 effected 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: TWIN LAKES PARK				2. Regulated Entity No.:102730918					
3. Customer Name: Young Mens Christian Association OF CENTRAL TEXAS				4. Customer No.: 11-14060601					
5. Project Type: (Please circle/check one)	New	Modification			Extension	Exception XX			
6. Plan Type: (Please circle/check one)	WPAP	<u>CZP</u>	SCS	UST	AST	<u>EXP</u>	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	<u>Non-residential</u>			8. Site (acres):		56.07		
9. Application Fee:	\$500.00	10. Permanent BMP(s):			Wet Pond				
11. SCS (Linear Ft.):		12. AST/UST (No. Tanks):							
13. County:	WMSN	14. Watershed:			BUTTERCUP 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.)	___	___	__X__
Region (1 req.)	___	___	__X__
County(ies)	___	___	__X__
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___ Barton Springs/ Edwards Aquifer ___ Hays Trinity ___ Plum Creek	___ Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___ Austin ___ Buda ___ Dripping Springs ___ Kyle ___ Mountain City ___ San Marcos ___ Wimberley ___ Woodcreek	___ Austin ___ Bee Cave ___ Pflugerville ___ Rollingwood ___ Round Rock ___ Sunset Valley ___ West Lake Hills	___ Austin __X__ 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.

TERRY HAGOOD



6/5/2023

Signature of Customer/Authorized Agent

Date

****FOR TCEQ INTERNAL USE ONLY****

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.

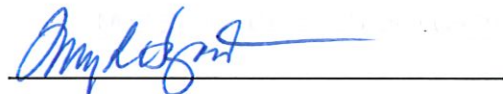
Signature

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: TERRY R. HAGOOD

Date: 6/5/2023

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: TWIN LAKES PARK
2. County: WILLIAMSON
3. Stream Basin: BUTTERCUP CREEK
4. Groundwater Conservation District (If applicable): N/A
5. Edwards Aquifer Zone:

- Recharge Zone
 Transition Zone

6. Plan Type:

- WPAP
 SCS
 Modification

- AST
 UST
 Exception Request

7. Customer (Applicant):

Contact Person: RICH CARLTON
Entity: YMCA OF GREATER WILLIAMSON COUNTY
Mailing Address: 1812 N. MAYS STREET
City, State: ROUND ROCK, TX Zip: 78664
Telephone: 5122.615.5555 FAX: _____
Email Address: RCARLTON@YMCAGWC.ORG

8. Agent/Representative (If any):

Contact Person: TERRY HAGOOD
Entity: HAGOOD ENGINEERING ASSOCIATES, INC.
Mailing Address: 900 E. MAIN STREET
City, State: ROUND ROCK, TX Zip: 78664
Telephone: 512.244.1546 FAX: _____
Email Address: TERRYH@HEAENG.COM

9. Project Location:

- The project site is located inside the city limits of CEDAR PARK.
- 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.

APPRX 500' EAST OF THE INTERSECTION OF S. BELL BLVD (US 183) AND LITTLE ELM TRAIL

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: ALREADY STAKED

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.

GENERAL INFORMATION
Attachments to form TCEQ-0587

ATTACHMENT A – ROAD MAP

See Attached Road Map

ATTACHMENT B – USGS QUADANGLE MAP

See Attached USGS Map

ATTACHMENT C - PROJECT DESCRIPTION

The YMCA Camp Twin Lakes Drainage Improvements Project is Twin Lakes Park Property complex located at 204 East Little Elm Trail in Cedar Park Texas. The Project is primarily a maintenance project to reduce and/or mitigate site areas which have been previously developed or disturbed and experienced erosion from storm runoff. Also, this Project adds 4,400 sq. ft. (0.10 acs.) of impervious cover a building addition, shade structures, and concrete flatwork for drainage structures to reduce surface storm water erosion.

The Twin Lakes Park Property is 56.07 acres and has been developed under multiple TCEQ Edwards Aquifer permits. The following is a chronology of the permitting:

- The original development of the Property was prior to the adoption of the TCEQ Edwards Rules. Impervious cover was 2.05 acs.
- A Contributing Zone Plan (CZP) was approved on July 19, 2002 under Edwards Aquifer Protection Program (EAPP) Program ID 02061401. This CZP incorporated the use of sediment fore bays with the existing Twin Lake functioning as a wet pond to serve as the BMP for the treatment of the storm runoff. Anticipating development in phases, the BMP was designed under the assumption of up to 14.998 acres (26.75%) of impervious cover. This CZP increased the impervious cover from the existing 2.05 acres of impervious cover to 8.17 acres (14.57%) of impervious cover.
- A modification to the CZP was approved by TCEQ on August 18, 2006 under EAPP Program ID 02061401A. The modification increased the impervious cover to 8.63 acres (15.39%).
- A modification to the CZP was approved by TCEQ on March 7, 2012 under EAPP Program ID 11-12012001. The modification increased the impervious cover to a total of 9.12 acres (16.27%).
- An exception was approved to the CZP by TCEQ on September 9, 2014 under EAPP Program ID 11-14060601. This exception increased the impervious cover to 12.37 acres (22.06%).

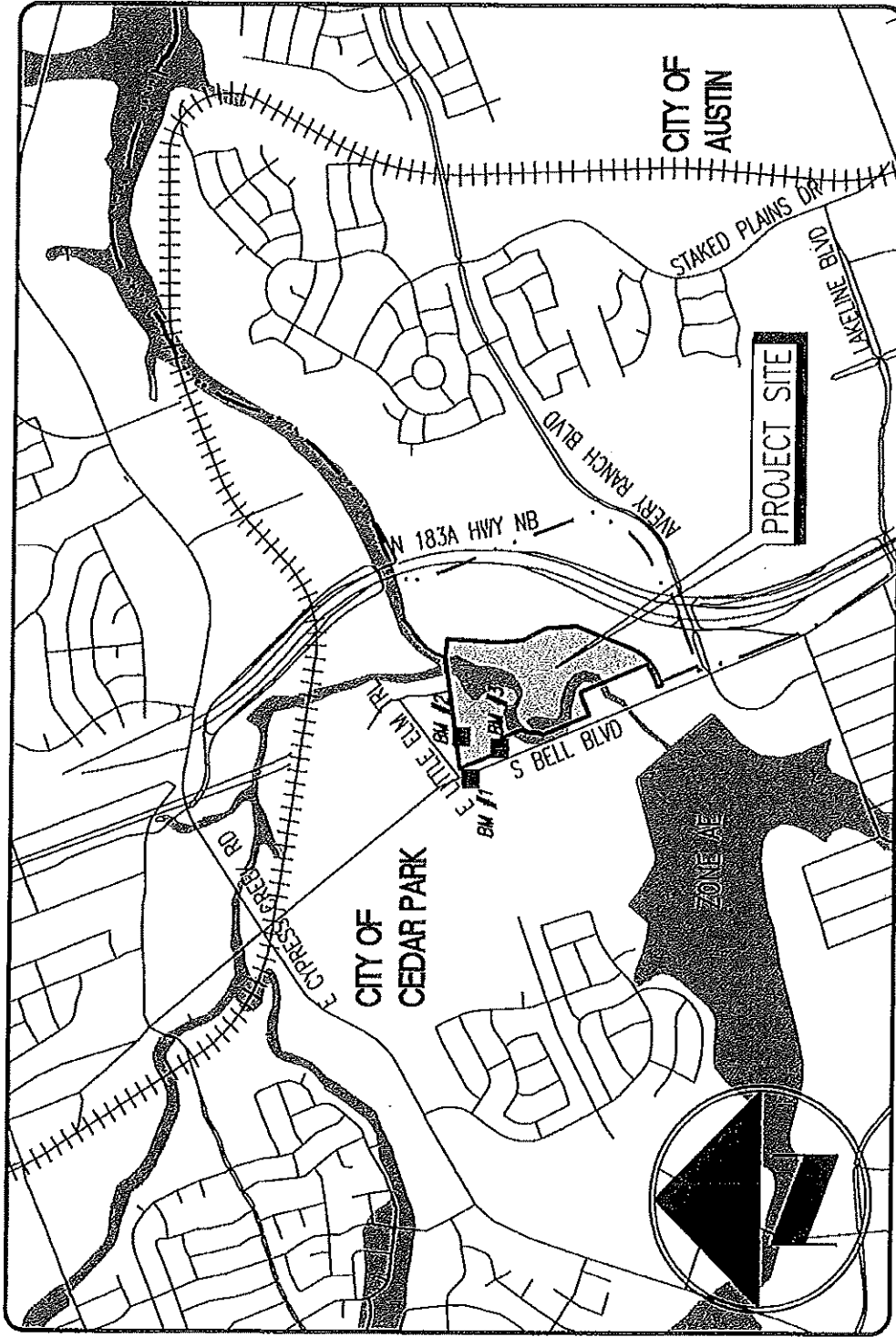
GENERAL INFORMATION
Attachments to form TCEQ-0587

- An exception was approved to the plan by TCEQ on February 4, 2020 under EAPP Program ID 11001799. This exception increased the impervious cover to 12.57 acres (22.42%)
- Since a portion of the Property is within the Recharge Zone and the remaining in the Contributing Zone, an exception was approved to a WPAP by TCEQ on under EAPP Program ID 11002818. This exception increased the impervious cover to 12.68 acres (22.62%)

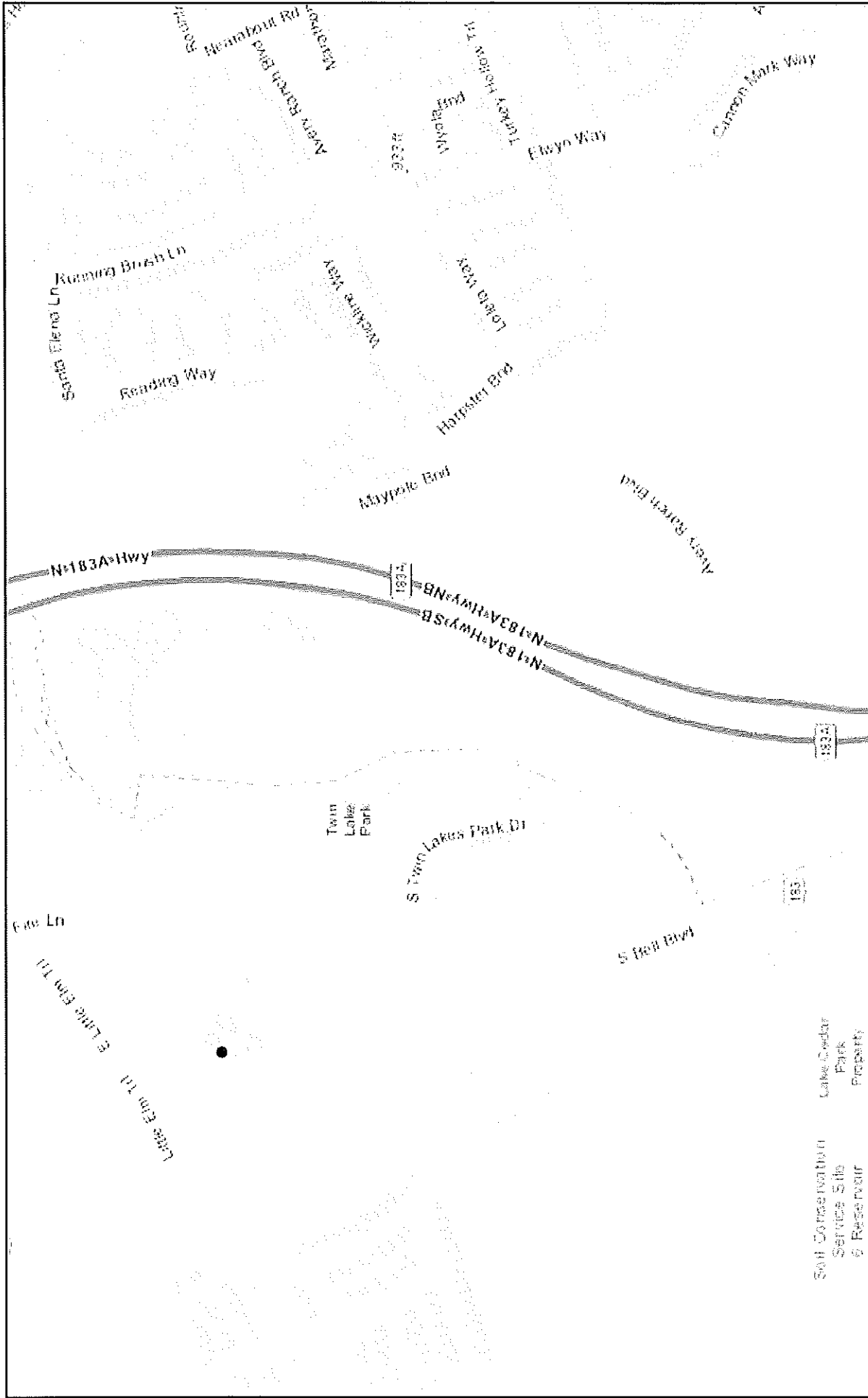
The original CZP and CZP Exception Request approval letters are provided following this section.

Please refer to the Exception Request section for a description of the nature of the exception request and equivalent water quality protection.

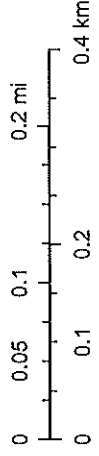
SITE LOCATION MAP



USGS QUADRANGLE MAP



1:9,028



9/8/2021, 9:25:25 AM

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.

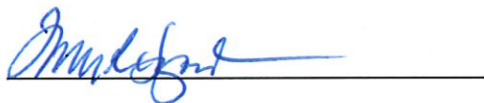
Signature

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: TERRY R HAGOOD

Date: 6/5/2023

Signature of Customer/Agent:



Regulated Entity Name: TWIN LAKE PARK

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.

RECHARGE AND TRANSITION ZONE EXCEPTION REQUEST

Attachments to form TCEQ-0628

ATTACHMENT A – NATURE OF EXCEPTION

The site has been subdivided into a YMCA “Northside” tract and a YMCA “Southside” tract as shown on the Overall Site Plan (Sheet CSP) and enlarged “Southside Site Plan sheet C-8. The Southside Tract is the focus of this WPAP Exception Request. Under the Contributing Zone Plan approved on July 19, 2002 (EAPP ID No. 02061401), the 56.07-acre tract was divided into three Drainage Areas: DA 1 (6.91 acres), DA 2 (3.33 acres), and DA 3 (45.828 acres). DA 1 discharges into Forebay 1 and DA 2 discharges into Forebay 2; both of these drainage areas are on the “Northside” portion of the site. DA 3 generally is the “Southside” tract. The minimum forebay sizes were based on the amount of drainage area discharging to each forebay with respect to the entire 56.07 acres site. Please refer to the attached “TNRCC BMP Calculations, Wet Pond Methodology and Charts” (Sheet C-8 of the attached Plan set) which is part of the 2002 original CZP approval. As shown on this sheet, Drainage Area #3 must provide 10,908 c.f. of sediment forebay. A total sediment forebay volume of 13,335 c.f. was provided as a part of CZP Exception Request approved on September 9, 2014 under EAPP ID No. 11-14060601. A copy of the approved letter is attached to this report.

BMP Accounting Table for Y.M.C.A. Camp Twin Lakes				
Edwards Aquifer Protection Program ID No.		Approved I.C [Acres]	I.C Increase [Acres]	BMP Remaining I.C. Allowance [Acres] ¹
Plan No.	Exception No.			
11-2061401		8.17	8.17	6.83
11-2061401A		8.63	0.46	6.37
	11-1201200	9.12	0.49	5.88
	11-14060601	12.37	3.25	2.63
	11001799	12.5	0.13	2.5
	11002818	12.68	0.114	2.386
¹ 2004 Approved Impervious Cover Allowance is 15.00				

An exception to provide a Geologic Assessment is requested. No sensitive geologic features have been identified as part of previous development. Also, The Property has been granted this exception under previous approvals. The improvements proposed with this application is within previously disturbed areas.

An exception to provide a Water Pollution Abatement Plan is requested. Compliance with Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005) has been used. To prevent pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, the existing wet basin and associated sediment forbays is used to treat runoff from the proposed impervious cover.

ATTACHMENT B - EQUIVALENT WATER QUALITY PROTECTION

Original BMP calculations are shown on the “TNRCC BMP Calculations, Wet Pond Methodology and Charts” plan sheets following this section. Impervious cover of 15.03 acres (26.8%) was assumed in the water quality design. A required 63,500 cubic feet of water quality volume was calculated.

RECHARGE AND TRANSITION ZONE EXCEPTION REQUEST

Attachments to form TCEQ-0628

Minimum forebay volumes were then calculated based on 20% of the water quality volume. Existing forbays #1 and #2 capture runoff from the Northside portion of the property.

The required 10,908 c.f. of sediment forebay capacity for Drainage Area #3 which occurs on the Southside tract has be provided in to areas which have concentrated impervious cover. Sediment Forebay #3 has 1,223 c.f. of storage and collects runoff from the parking lot adjacent to the proposed Dining Hall. Sediment Forebay #4 has 13,005 c.f. of storage and collects runoff from the southernmost parking lot.

The required total suspended solids (TSS) treatment for this project is 87 pounds of TSS generated from the .10 acre increase of impervious cover. Please refer to the attached RG-348 Calculation Template.) The previously approved wet basin and associated sediment forbays meet the required 80 percent removal of the increased load in TSS caused by the project.

RECHARGE AND TRANSITION ZONE EXCEPTION REQUEST

Attachments to form TCEQ-0628

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **YMCA CTL**
Date Prepared: **6/5/2023**

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:

$L_{M \text{ TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Williamson
Total project area included in plan *	56.07 acres
Predevelopment impervious area within the limits of the plan *	12.68 acres
Total post-development impervious area within the limits of the plan *	12.78 acres
Total post-development impervious cover fraction *	0.23
P =	32 inches

$L_{M \text{ TOTAL PROJECT}}$ = 87 lbs.

* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = ?

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. =	3
Total drainage basin/outfall area =	45.83 acres
Predevelopment impervious area within drainage basin/outfall area =	4.87 acres
Post-development impervious area within drainage basin/outfall area =	4.77 acres
Post-development impervious fraction within drainage basin/outfall area =	0.10
$L_{M \text{ THIS BASIN}}$ =	87 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Wet Basin**
Removal efficiency = **93** percent

- Aqualogic Cartridge Filter
- Bioretention
- Contech StormFilter
- Constructed Wetland
- Extended Detention
- Grassy Swale
- Retention / Irrigation
- Sand Filter
- Stormceptor
- Vegetated Filter Strips
- Vortexes
- Wet Basin
- Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

where:

A_C = Total On-Site drainage area in the BMP catchment area
 A_I = Impervious area proposed in the BMP catchment area
 A_P = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = 45.83 acres
 A_I = 4.77 acres
 A_P = 41.06 acres
 L_R = 5572 lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired $L_{M \text{ THIS BASIN}}$ = 87 lbs.

F = 0.02

Raquel Ramirez

From: James Slone <james.slone@tceq.texas.gov>
Sent: Thursday, May 25, 2023 10:43 AM
To: Raquel Ramirez
Subject: RE: YMCA CTL

You can submit as an Exception Plan. Please retain this email for your records.
Take care,
Bo

James "Bo" Slone, P.G.
Geoscientist
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality
(512) 239-5711

From: Raquel Ramirez <RaquelR@HEAENG.com>
Sent: Thursday, May 25, 2023 9:00 AM
To: James Slone <james.slone@tceq.texas.gov>
Subject: RE: YMCA CTL

A storage shed

From: James Slone <james.slone@tceq.texas.gov>
Sent: Thursday, May 25, 2023 7:55 AM
To: Raquel Ramirez <RaquelR@HEAENG.com>
Subject: RE: YMCA CTL

What is being constructed?

From: Raquel Ramirez <RaquelR@HEAENG.com>
Sent: Wednesday, May 24, 2023 5:09 PM
To: James Slone <james.slone@tceq.texas.gov>
Subject: FW: YMCA CTL

Bo

I sent this to Colin, but he is out of the office. Can you assist??
Thanks
Raquel

From: Raquel Ramirez
Sent: Wednesday, May 24, 2023 5:04 PM
To: 'Colin Gearing' <Colin.Gearing@tceq.texas.gov>
Subject: YMCA CTL

Colin

We are looking to increase the impervious cover of the attached approval letter by 3800 sq ft. We are trying to determine if this can be done as an exception or if we need to do a modification. Your input would be appreciated.

Thank you

*Your friendly Project Assistant
Raquel Saenz*



900 E. Main Street
Round Rock, Texas 78664
RaquelR@heaeng.com
512.244.1546

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.

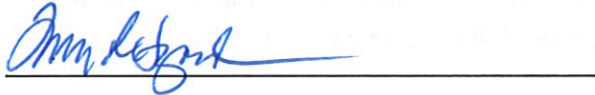
Signature

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: TERRY R. HAGOOD

Date: 6/5/2023

Signature of Customer/Agent:



Regulated Entity Name: TWIN LAKES PARK

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: SOUTH BRUSHY CREEK

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.

TEMPORARY STORWATER SECTION

Attachments to form TCEQ-0602

ATTACHMENT A

There are several factors that could affect surface and ground water quality. During construction, fuels and hazardous substances could spill. These spills shall be contained on-site and immediately cleaned up and properly discarded. Any spills or discharges of oil, petroleum products and used oil onto land having a volume greater than 25 gallons, and spills or discharges directly into waters of the state having a quantity sufficient enough to create a sheen, shall be reported immediately to TCEQ at (512) 339-2929 or the State Emergency Response Center at 1-800-832-8224. There are no significant factors proposed which could affect surface and ground water quality relating to the permanent use of the facility.

ATTACHMENT B

Potential Sources of Contamination:

1. Soil disturbance during construction.
2. Hydrocarbon-based fluids from Construction Equipment.
3. Landscaping – Fertilizer and Pesticides.

ATTACHMENT C

Sequence of major activities for each phase is as follows:

1. The installation of Erosion/Sedimentation Controls –0.08 Ac. Disturbed
2. Clearing, grubbing, and removal of topsoil from applicable areas – 0.12 Ac. Disturbed
3. Rough grading and abutment installation– 0.20 Ac. Disturbed
4. Finish grading and landscaping – 0.1 Ac. Disturbed

ATTACHMENT D

The Temporary Best Management Practices (TBMP) for this project will consist of:

1. A stabilized construction entrance.
2. Silt fencing around down gradient boundary of site.

All TBMP's will be in place prior to any regulated activities commencing. The stabilized construction entrance will remove excess spoils from construction vehicles leaving the site. The silt fencing will collect silt runoff and debris during construction activities. These controls will be maintained during construction and will remain until after all construction activities are complete and permanent re-vegetation is established.

ATTACHMENT F

Due to the limited area of the site, the silt fence will provide control to retain any runoff from the exposed site.

ATTACHMENT G

Refer to the drawings, sheet C50.

TEMPORARY STORWATER SECTION

Attachments to form TCEQ-0602

ATTACHMENT H

The total site area is 0.50 acres and will not require a temporary sediment pond.

ATTACHMENT I

The contractor is required to inspect all of the erosion and sediment 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. Records described in the SWPPP must be retained on site for 5 years beyond the date of the cover letter notifying the facility of coverage under a storm water permit, and shall be made available to the state or federal compliance inspection officer upon request. Additionally, employee training records and waste and recycling receipts or vouchers shall also be maintained.

ATTACHMENT J

Schedule of Interim Soil Stabilization Practices:

1. Erosion and sediment control measures including perimeter sediment controls must be in place before vegetation is disturbed and must remain in place and be maintained and repaired.
2. Temporary stabilization or covering of soil stockpiles and protection of stockpile located away from construction activity must be maintained
3. Should construction activities cease for fifteen (15) days or more on any significant portion of the construction site, temporary stabilization is required for that portion of the site to prevent soil and wind erosion until work resumes on that portion of the site.
4. Should all construction activities cease for thirty days or more, the entire site must be temporarily stabilized using vegetation or a heavy mulch layer, temporary seeding or other method.

Schedule of Permanent Soil Stabilization Practices:

1. Stabilized any unpaved area that is final grade or remain unpaved for the next two weeks. Permanent stabilization may consist of sodding, seeding, or mulching that must be maintained to prevent erosion from the site until re-vegetation has achieved 70% coverage
2. Once construction is complete, remove all the pollution prevention measures that were temporary.

Permanent 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)(C), (D)(ii), (E), and (5), 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 **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: TERRY R. HAGOOD

Date: 6/5/2023

Signature of Customer/Agent



Regulated Entity Name: TWIN LAKES PARK

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

- Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
 N/A
- These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

N/A

3. Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

The site will be used for low density single-family residential development and has 20% or less impervious cover.

The site will be used for low density single-family residential development but has more than 20% impervious cover.

The site will not be used for low density single-family residential development.

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

The site will not be used for multi-family residential developments, schools, or small business sites.

6. **Attachment B - BMPs for Upgradient Stormwater.**

- A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
 - No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. **Attachment C - BMPs for On-site Stormwater.**
- A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- N/A
9. The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
 - Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- Design calculations (TSS removal calculations)
 - TCEQ construction notes
 - All geologic features
 - All proposed structural BMP(s) plans and specifications
- N/A

11. **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- Prepared and certified by the engineer designing the permanent BMPs and measures
 - Signed by the owner or responsible party
 - Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
 - A discussion of record keeping procedures
- N/A
12. **Attachment H - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
- N/A
13. **Attachment I -Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
- N/A

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

14. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- N/A
15. A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- N/A

PERMANENT STORMWATER SECTION

Attachments to form TCEQ-0600

ATTACHMENT A

This attachment is not needed. (20% or less Impervious Cover Waiver)

ATTACHMENT B

Water quality will be provided by one wet basin BMP with sediment forebays. Please refer to Sheet 50C.

ATTACHMENT C

One wet basin will be used to prevent pollution of surface water or ground water originating on-site.

ATTACHMENT D

There are no surface streams, sensitive features or aquifer entrance points on this site. The wet basin will mitigate reduce the pollutants within the stormwater being discharged downstream to Buttercup Creek.

ATTACHMENT E

This attachment is not needed. (Request to Seal Features)

ATTACHMENT F

See attached drawings. (Construction Plans)

ATTACHMENT G

See attached maintenance plan for the ponds. (TCEQ-0589). The vegetative filter strips occur naturally and are adjacent to the land draining to the ponds. The area will not drain via gravity to any other BMP. The filter strips will be used in accordance with RG-348. Once the vegetative filter strips are established, little additional maintenance is necessary.

ATTACHMENT H

This attachment is not needed. (Pilot-Scale Field Testing Plan)

ATTACHMENT I

All flows from the site will be conveyed through a private storm sewer system to proposed BMPs. There will be no increase in the flows as demonstrated in the calculations in the plan sheets.

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I JEFF ANDRESEN,
Print Name

PRESIDENT,
Title - Owner/President/Other

of YMCA OF GREATER WILLIAMSON COUNTY,
Corporation/Partnership/Entity Name

have authorized TERRY R. HAGOOD
Print Name of Agent/Engineer

of HAGOOD ENGINEERING 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:

[Handwritten Signature]
Applicant's Signature

5-30-23
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Jeff Andresen 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 30th day of May, _____.

Ariel White
NOTARY PUBLIC

Ariel White
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 05/12/2026

LEASE AND EASEMENT AGREEMENT

STATE OF TEXAS
COUNTY OF TRAVIS

§
§
§

KNOW ALL MEN BY THESE PRESENTS:

This Lease and Easement Agreement is made and entered into by and between the Connie Evarts Waggoner Walker Trust, hereinafter called "Lessor", and Malcolm Robinson, Trustee, hereinafter called "Lessee", and it is as follows:

WHEREAS, the Lessor owns that certain 1.80 acres out of the Samuel Daymon Survey, A-170, in Williamson County, Texas, being that tract of land described in a deed from Kenneth R. Gerrard, Sr., et ux, to Noble W. Walker, et ux, dated February 5, 1982, and recorded in Volume 866, Page 679, of the Williamson County Deed Records, and is desirous of leasing a portion of that tract to the Lessee, the said portion being hereinafter described on the Exhibit "A";

WHEREAS, the Lessee is desirous of leasing from the Lessor that land described on Exhibit "A".

NOW, THEREFORE, for and in consideration of the covenants contained herein and the money consideration to be paid by the Lessee to the Lessor, the parties agree as follows:

- 1) Lessor leases to Lessee the property described on Exhibit "A" commencing the first (1st) day of November, 1995, and ending the thirty-first (31st) day of October, 1996, provided, however, that this lease shall be automatically renewed from year to year unless either party within sixty days from the expiration of each year gives notice to the other party that they desire to terminate the lease.
- 2) The consideration for this lease is that there is erected on the portion of property hereinafter leased a sign from which certain rent is collected, and the Lessee herewith

OFFICIAL RECORDS
WILLIAMSON COUNTY, TEXAS

agrees to pay the Lessor whatever consideration is received as a result of the sign rental being paid to the Lessee.

- 3) The Lessee upon the termination of this lease shall vacate said premises and return to the Lessor all and singular the premises and any improvements thereon in as good a repair as the improvements were in upon the execution of this lease, reasonable use and wear thereof accepted.
- 4) The said Lessor covenants and agrees with the said Lessee that upon the Lessee paying the rent of foresaid and performing each and all the covenants herein contained, that the Lessee shall peaceably hold and enjoy the said demise premises without hinderance or interruption from the said Lessor.

WITNESS OUR HANDS this 14 day of November, 1995.

CONNIE EVARTS WAGGONER WALKER TRUST

By: *Connie Evarts Waggoner Walker*
CONNIE EVARTS WAGGONER WALKER
LINDGREN, Trustee.

THE STATE OF TEXAS §
 §
COUNTY OF TRAVIS §

This instrument was acknowledged before me on this the 14 day of November, 1995, by CONNIE EVARTS WAGGONER WALKER LINDGREN, Trustee.



Kathleen M. Mayes
Notary Public, State of Texas

Malcolm Robinson Trust
MALCOLM ROBINSON, Trustee.

THE STATE OF TEXAS §
 §
COUNTY OF TRAVIS §

This instrument was acknowledged before me on this the 14th day of November, 1995,
by MALCOLM ROBINSON, Trustee.



Julia Hebbe

Notary Public, State of Texas

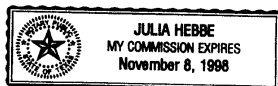
MALCOLM ROBINSON, Trustee

By: *Malcolm Robinson*

MALCOLM ROBINSON, Trustee.

THE STATE OF TEXAS §
 §
COUNTY OF TRAVIS §

This instrument was acknowledged before me on this the 14th day of November, 1995,
by MALCOLM ROBINSON, Trustee.



Julia Hebbe

Notary Public, State of Texas

EXHIBIT "A"

LEGAL DESCRIPTION FOR LEASE AND EASEMENT AGREEMENT

A certain two hundred and ninety-four (294) square foot area out of that 1.80 acres in the Samuel Daymon Survey, Abstract Number 170 in Williamson County, Texas, being that tract of land described in a deed recorded in Volume 866, Page 679, said two hundred and ninety-four square feet area containing a sign and being approximately six feet wide and forty-nine feet long (6' x 49'), the said most westerly six foot side being north 61° 08' 25" east 60 feet from a point in the east line of U.S. Highway 183 and approximately 15 feet south of the north line of the 1.80 acre tract and then continuing parallel with the north line for approximately 48.75 feet to a point;

THENCE, south 20° 59' 47" east 6 feet said line being parallel to the east line of the 1.80 acre tract;

THENCE, in a reverse line, again parallel with the north line of the 1.80 acre tract 48.75 feet; and,

THENCE, in a northerly direction to the point of beginning.

In addition to the leased area, the Lessee shall have an easement along the north line of the 1.80 acre tract from U.S. Highway 183 and fifteen (15) feet in width to service the leased area.

Doc# 9552087
Pages: 4
Date : 11-17-1995
Time : 03:24:41 P.M.
Filed & Recorded in
Official Records
of WILLIAMSON County, TX.
ELAINE BIZZELL
COUNTY CLERK
Rec. \$ 15.00

① Malcolm Roberson
7320 W. Maple
Ste # 211
Austin, TX 78731-2309

AMENDMENT TO LEASE AND EASEMENT AGREEMENT

STATE OF TEXAS

§
§
§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF TRAVIS

This is an amendment to that certain Lease and Easement Agreement made and entered into by and between Connie Evarts Waggoner Walker Trust, hereinafter called "Lessor" and Malcolm Robinson, Trustee, hereinafter called "Lessee", which is recorded in the Official Records of Williamson County, Texas, Document No. 9552087 and is as follows:

WHEREAS, the Exhibit "A" attached to the Lease and Easement Agreement provides for an easement along the north line of the 1.80 acre tract from U. S. Highway 183 and fifteen (15) feet in width to service the leased area.

This agreement deletes that easement and in lieu thereof provides for an easement from U. S. Highway 183 to the area where the sign is located via the existing ingress and egress driveways on the property from U. S. Highway 183 to the 294 square foot area where the sign is located so that access to said sign from U. S. Highway 183 shall always be available.

In all other respects the Lease and Easement Agreement is restated.

WITNESS OUR HANDS this 25th day of January, 1996.

CONNIE EVARTS WAGGONER WALKER
TRUST, Lessor.

By: Connie Evarts Waggoner Walker Lindgren
CONNIE EVARTS WAGGONER WALKER
LINDGREN, Co-Trustee.

Malcolm Robinson Co Trustee
MALCOLM ROBINSON, Co-Trustee.

OFFICIAL RECORDS
WILLIAMSON COUNTY, TEXAS

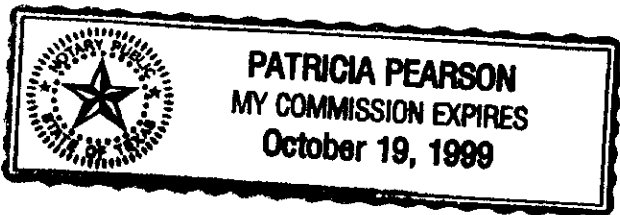
221768 ①

LESSEE:

Malcolm Robinson, Trust
MALCOLM ROBINSON, Trustee.

THE STATE OF TEXAS §
 §
COUNTY OF TRAVIS §

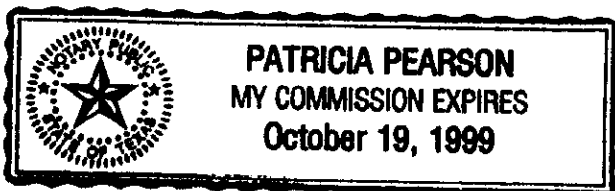
This instrument was acknowledged before me on this the 25th day of January, 1996, CONNIE EVARTS WAGGONER WALKER TRUST by CONNIE EVARTS WAGGONER WALKER LINDGREN, Co-Trustee.



Patricia Pearson
Notary Public, State of Texas

THE STATE OF TEXAS §
 §
COUNTY OF TRAVIS §

This instrument was acknowledged before me on this the 25th day of January, 1996, by MALCOLM ROBINSON, Co-Trustee, and as MALCOLM ROBINSON, Trustee.



Patricia Pearson
Notary Public, State of Texas

AMENDMENT TO LEASE AND EASEMENT AGREEMENT

RETURN TO:
④ **TEXAS PROFESSIONAL TITLE INC.**
5608 PARKCREST, SUITE 150
AUSTIN, TEXAS 78731

Doc# 9606183
Pages: 2
Date : 02-06-1996
Time : 03:26:48 P.M.
Filed & Recorded in
Official Records
of WILLIAMSON County, TX.
ELAINE BIZZELL
COUNTY CLERK
Rec. \$ 11.00

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: TWIN LAKE PARK

Regulated Entity Location: 1812 N. MAYS ROUND ROCK, TEXAS 78664

Name of Customer: YMCA OF GREATER WILLIAMSON COUNTY

Contact Person: JEFF ANDRESEN

Phone: 512.615.5530

Customer Reference Number (if issued): CN 601387905

Regulated Entity Reference Number (if issued): RN 102730918

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

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

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

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
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	\$ 500.00
Extension of Time	Each	\$

Signature: 

Date: 6/5/2023

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	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$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 regarding completion of 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.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
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 601387905		RN 102730918

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		11/09/2021	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information		<input type="checkbox"/> Change in Regulated Entity Ownership	
<input type="checkbox"/> 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:		
Young Mens Christian Association of Central Texas					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	
56638201		17422065585		742206558	
10. DUNS Number (if applicable)					
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
<input checked="" type="checkbox"/> Other: YMCA					
12. Number of Employees			13. Independently Owned and Operated?		
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:					
<input checked="" type="checkbox"/> Owner		<input type="checkbox"/> Operator		<input type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:					
15. Mailing Address:					
YMCA of Greater Williamson County					
1812 N Mays Street					
City		Round Rock		State TX	
ZIP		78664		ZIP + 4 2126	
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 below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency 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.)	
Twin Lakes Park	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	204 E. Little Elm Trail						
	City	Cedar Park	State	TX	ZIP	78613	ZIP + 4
24. County	Williamson						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Approximately 500' east of South Bell Boulevard (US 183) at Little Elm Trail					
26. Nearest City	Cedar Park		State	TX	Nearest ZIP Code	78613
27. Latitude (N) In Decimal:	30.493877		28. Longitude (W) In Decimal:	-97.809606		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
30	29	38	-97	48	35	
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)		
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>						
34. Mailing Address:						
	City		State		ZIP	
35. E-Mail Address:						
36. Telephone Number		37. Extension or Code		38. Fax Number <i>(if applicable)</i>		
() -				() -		

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.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
		11-14060601		
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

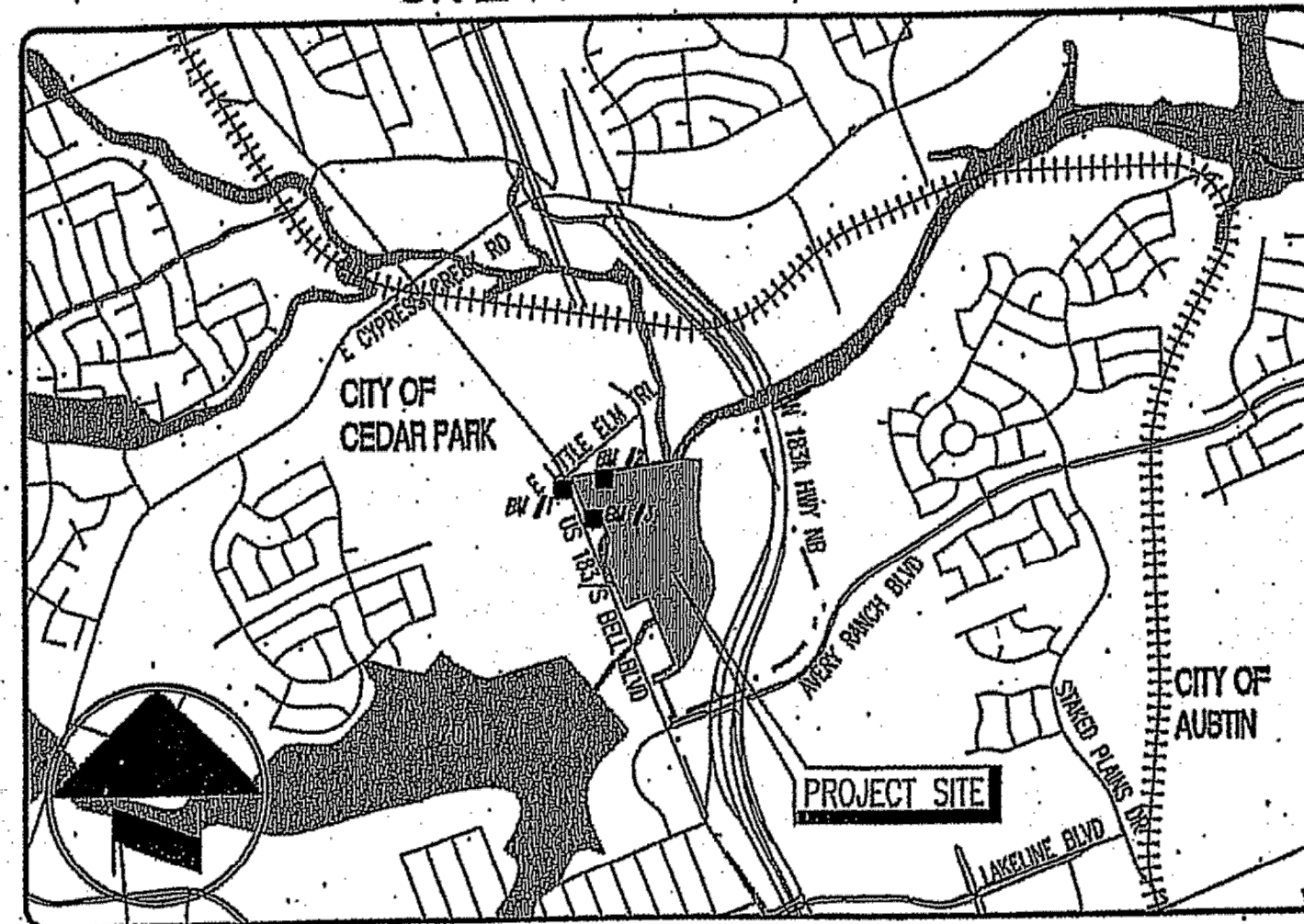
40. Name:	RAQUEL SAENZ	41. Title:	PROJECT ASSISTANT
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 244-1546		() -	RAQUELR@HEAENG.COM

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:	HAGOOD ENGINEERING ASSOCIATES	Job Title:	PROJECT MANAGER
Name(In Print) :	TERRY HAGOOD	Phone:	(512) 244-1546
Signature:		Date:	6/5/2023

SITE LOCATION MAP

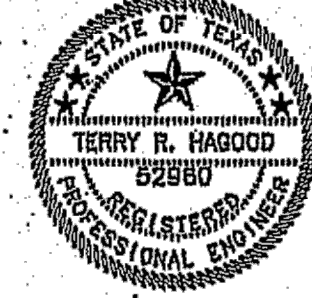


**SITE DEVELOPMENT PLANS
SUBMITTED FOR
TWIN LAKES YMCA
204 E. LITTLE ELM TRAIL
CEDAR PARK, TEXAS 78613**

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

STATE OF TEXAS **
COUNTY OF WILLIAMSON **

I, TERRY R. HAGOOD, DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS DESCRIBED HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE (SUBDIVISION, BUILDING REGULATION) ORDINANCES AND STORM WATER DRAINAGE POLICY ADOPTED BY THE CEDAR PARK, TEXAS.

 *Terry R. Hagood* 11/7/14
Terry R. Hagood Date
Registered Professional Engineer

Rev 4 Sheet List Table

SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
01	REV 4 COVER	COVER SHEET
05	C100-R4	GENERAL CONSTRUCTION NOTES
08	C203-R4	TEMPORARY E.S.C. AND DEMOLITION PLAN
09	C204-R4	TEMPORARY E.S.C. AND DEMOLITION PLAN
11	C206-R4	TEMPORARY E.S.C. AND DEMOLITION PLAN
18	C303-R4	DIMENSION & PAVING PLAN
19	C304-R4	DIMENSION & PAVING PLAN
21	C306-R4	DIMENSION & PAVING PLAN
38	C403-R4	GRADING PLAN
39	C404-R4	GRADING PLAN
41	C406-R4	GRADING PLAN
48A	C500-R4	OVERALL DRAINAGE PLAN
48B	C503-R4	DRAINAGE PLAN
48C	C504-R4	DRAINAGE PLAN
48D	C506-R4	DRAINAGE PLAN
59A	C70-R4	DETAILS

SHEET LIST

# OF 66	SHEET	DESCRIPTION	# OF 66	SHEET	DESCRIPTION
01	CVR	COVER SHEET	34	C329	PAVING & STRIPING PLAN
02	CSP	OVERALL EXISTING CONDITIONS PLAN	35	C400	OVERALL GRADING PLAN
03	CSPN	"NORTHSIDE" SITE AND FIRE PROTECTION PLAN	36	C401	GRADING PLAN - NOT USED
04	CSPS	"SOUTHSIDE" SITE AND FIRE PROTECTION PLAN	37	C402	GRADING PLAN - NOT USED
05	C100	GENERAL CONSTRUCTION NOTES	38	C403	GRADING PLAN
06	C201	TEMPORARY E.S.C. AND DEMOLITION PLAN	39	C404	GRADING PLAN
07	C202	TEMPORARY E.S.C. AND DEMOLITION PLAN	40	C405	GRADING PLAN - NOT USED
08	C203	TEMPORARY E.S.C. AND DEMOLITION PLAN	41	C406	GRADING PLAN
09	C204	TEMPORARY E.S.C. AND DEMOLITION PLAN	42	C407	GRADING PLAN
10	C205	TEMPORARY E.S.C. AND DEMOLITION PLAN	43	C408	GRADING PLAN
11	C206	TEMPORARY E.S.C. AND DEMOLITION PLAN	44	C409	GRADING PLAN
12	C207	TEMPORARY E.S.C. AND DEMOLITION PLAN	45	C600A	EXISTING DRAINAGE AREA MAP
13	C208	TEMPORARY E.S.C. AND DEMOLITION PLAN	46	C600B	EXISTING DRAINAGE AREA CALCULATIONS
14	C209	TEMPORARY E.S.C. AND DEMOLITION PLAN	47	C601	PROPOSED DRAINAGE AREA MAP
15	C300	OVERALL DIMENSION CONTROL PLAN	48	C602	OVERALL DRAINAGE PLAN
16	C301	DIMENSION CONTROL PLAN - NOT USED	49	C600	OVERALL UTILITY PLAN
17	C302	DIMENSION CONTROL PLAN - NOT USED	50	C601	UTILITY PLAN
18	C303	DIMENSION CONTROL PLAN	51	C602	UTILITY PLAN
19	C304	DIMENSION CONTROL PLAN	52	C603	UTILITY PLAN
20	C305	DIMENSION CONTROL PLAN - NOT USED	53	C604	UTILITY PLAN
21	C306	DIMENSION CONTROL PLAN	54	C605	UTILITY PLAN
22	C307	DIMENSION CONTROL PLAN	55	C606	UTILITY PLAN
23	C308	DIMENSION CONTROL PLAN	56	C607	UTILITY PLAN - NOT USED
24	C309	DIMENSION CONTROL PLAN	57	C608	UTILITY PLAN
25	C320	OVERALL PAVING & STRIPING PLAN	58	C609	UTILITY PLAN
26	C321	PAVING & STRIPING PLAN	59	C700	CONSTRUCTION DETAILS
27	C322	PAVING & STRIPING PLAN	60	C701	UTILITY DETAILS
28	C323	PAVING & STRIPING PLAN	61	C702	LIFT STATION DETAIL
29	C324	PAVING & STRIPING PLAN	62	LA5.01	TREE PRESERVATION PLAN
30	C325	PAVING & STRIPING PLAN - NOT USED	63	LA5.02	LANDSCAPE PLANNING PLAN
31	C326	PAVING & STRIPING PLAN	64	LA5.03	TREE LIST AND CALCULATIONS
32	C327	PAVING & STRIPING PLAN - NOT USED	65	LA5.04	LANDSCAPE NOTES AND DETAILS
33	C328	PAVING & STRIPING PLAN	66	E100	SITE PLAN ELECTRICAL

BENCHMARKS

BM#1 - CP25 CITY OF CEDAR PARK DISK IN CONCRETE
ELEV. = 893.91'

BM#2 - "X" CUT ON FLANGE BOLT OF FIRE HYDRANT
ELEV. = 879.78'

BM#3 - "X" CUT ON FLANGE BOLT OF FIRE HYDRANT
ELEV. = 881.83'

LEGAL DESCRIPTION

- 50 ACRES, VOLUME 1723, PAGE 855 (WILLIAMSON COUNTY DEED RECORDS)
- 2.169 ACRES, CITY OF CEDAR PARK
- 3.899 ACRES, DOCUMENT NO. 8625812 (WILLIAMSON COUNTY DEED RECORDS)

PLAN SUBMITTALS

NO.	DATE	COMMENTS
1	8/12/13	DESIGN DEVELOPMENT
2	8/6/14	TCEQ SUBMITTAL
3	8/20/14	SUBMIT TO THE CITY OF CEDAR PARK
4	8/18/14	UPDATE #1 TO THE CITY OF CEDAR PARK
5	10/8/14	UPDATE #2 TO THE CITY OF CEDAR PARK
6	11/3/14	UPDATE #3 TO THE CITY OF CEDAR PARK
7	11/7/14	ISSUED FOR CONSTRUCTION
8		
9		
10		

NOTES:

- THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 16,406 S.F. OF BUILDINGS (308 S.F. OF ONE STORY ADDITION TO EXISTING DINING HALL, SIX (6) 2,500 S.F. ONE STORY RESIDENCE CABINS), 2,500 S.F. ONE STORY OPEN AIR PAVILION, AND 588 S.F. WELCOME CENTER ON A 56,068 ACRE SITE WITH ASSOCIATED PARKING, DRIVES, WATER QUALITY AND UTILITY IMPROVEMENTS.
- A PORTION OF THE ABOVE LEGALLY DESCRIBED PROPERTY IS WITHIN THE DESIGNATED FLOOD HAZARD AREA AS DESIGNATED BY F.E.M.A. MAP ON COMMUNITY PANEL NO. 48491C0610E, DATED SEPTEMBER 26, 2008 FOR THE CITY OF CEDAR PARK, WILLIAMSON COUNTY, TEXAS.
- THIS PROJECT IS WITHIN THE BUTTERCUP WATERSHED.
- THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF A TCEQ CONTRIBUTING ZONE PLAN EXCEPTION REQUEST PER TCEQ APPROVAL LETTER DATED SEPTEMBER 9, 2014.
- A TPDES SWPPP IS REQUIRED FOR THIS PROJECT.
- THIS PROJECT DOES NOT CREATE AN IDENTIFIABLE ADVERSE DRAINAGE IMPACT TO ADJACENT OR DOWNSTREAM PROPERTIES DUE TO THE PROPOSED DEVELOPMENT DURING THE 100 YEAR STORM. NO ON-SITE DETENTION PROVIDED.
- SEE SHEET 05 FOR GENERAL CONSTRUCTION NOTES.
- REFER TO ELECTRIC PLAN FOR SITE LIGHTING - THIS PLAN IS PART OF THE DINING HALL BUILDING PERMIT PLAN SET.
- ALL POWER, TELEPHONE AND COMMUNICATION UTILITY LINES SHALL BE UNDERGROUND.
- LIGHT SOURCES SHALL BE COMPLETELY CONCEALED WITHIN OPAQUE HOUSINGS AND SHALL NOT BE VISIBLE FROM ADJACENT STREETS OR PROPERTIES. ALL EXTERIOR LIGHTING FIXTURES SHALL BE FULL CUT-OFF TYPE FIXTURES. LIGHTING FIXTURES SHALL BE NO MORE THAN TWENTY-FIVE (25) FEET IN HEIGHT AS MEASURED FROM ADJACENT, FINISHED GRADE.

APPROVED
JUL 22 2015
PLANNING DEPT.
CITY OF CEDAR PARK

ENGINEER
YMCA OF GREATER WILLIAMSON COUNTY
P.O. BOX 819
ROUND ROCK, TEXAS 78680
JEFF ANDRESEN (512) 615-5330
JANDRESEN@YMCAWILLIAMSONCO.ORG

ENGINEER
HAGOOD ENGINEERING ASSOCIATES
ONE CHISHOLM TRAIL, SUITE 5200
ROUND ROCK, TEXAS 78681
TERRY R. HAGOOD (512) 244-1546
TERRY@HEA.ENG.PRO

ARCHITECT
KAH ARCHITECTS
1517 EAST PALM VALLEY BLVD
ROUND ROCK, TEXAS 78664
KEITH HICKMAN (512) 388-0677
KEITH@KAHARCHITECTS.COM

LANDSCAPE ARCHITECT
STUDIO 16:19
1717 NORTH IH. 35, SUITE 308
ROUND ROCK, TEXAS 78664
BRENT A. BAKER (512) 534-8680
BRENT@STUDIO1619.COM

APPROVED
APR 11 2016
PLANNING DEPT.
CITY OF CEDAR PARK

APPROVED
NOV 07 2014
PLANNING DEPT.
CITY OF CEDAR PARK

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED BY
1	4/13/15	ADDED 5 CABINS, MISC. PAVING AND UTILITIES	
2	03/07/16	ADDED PAVILION, WELCOME CENTER, SIDEWALKS AND WL/WW	<i>M</i> 4/11/16
3	04/28/17	WELCOME CENTER SIDEWALKS AND UTILITIES	
4	06/5/23	MAINTENANCE AND DRAINAGE IMPROVEMENT	
5			

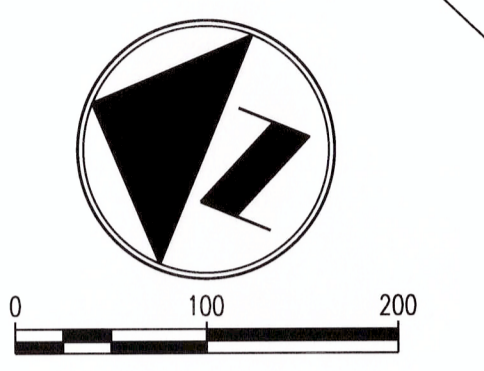
APPROVED
JUL 22 2015
PLANNING DEPT.
CITY OF CEDAR PARK

HAGOOD ENGINEERING ASSOCIATES

One Chisholm Trail, Suite 5200
Round Rock, TX 78681
Phone (512) 244-1546
Fax (512) 244-1010
www.he-eng.pro
TPE Registration No. P-12709

JOB NO. 13-012 © 2014 HEA, Inc.

JOB NO: 13-012
DRAWN BY: AMR
CHECKED BY: TRH
PLAC: TRH
FILE NO: 13-012WR
DATE: 11/7/14
SHEET: 01 OF 66



DATE SIGNED: 11/7/14
 ISSUED FOR: CONSTRUCTION
 LIZZY L. CONDON
 PROFESSIONAL ENGINEER
 STATE OF TEXAS
 LICENSE NO. 122860
 EXPIRES: 11/7/15

Don Chubbins, Inc., Suite 500
 Round Rock, TX 78681
 Phone (512) 244-1546
 Fax (512) 244-1010
 www.hagood.com
 TPE Registration No. F-1770
 JOB NO. 13-012 (2014) HEA, Inc.



SITE DEVELOPMENT PLANS
TWIN LAKES YMCA
204 E. LITTLE ELM TRAIL
CEDAR PARK, TX 78613

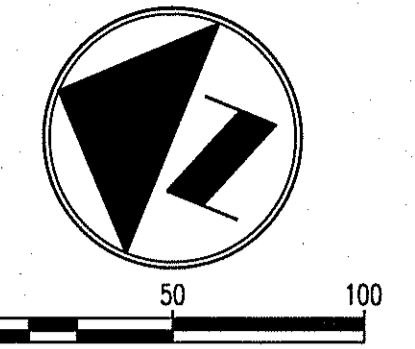
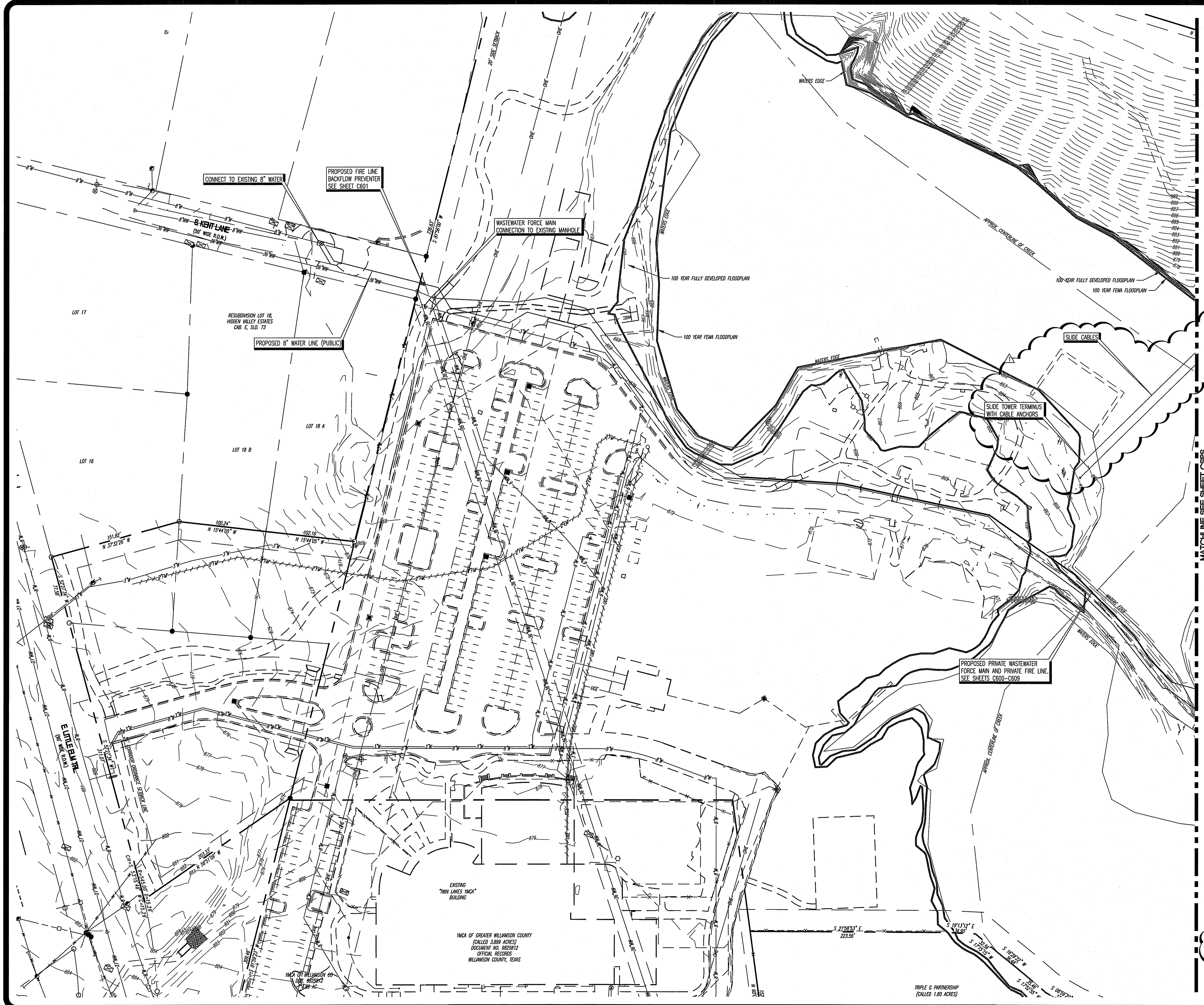
NO.	DATE	DESCRIPTION

HEA PROJECT NO. 13-012
 ISSUED DATE: 11/7/14
OVERALL EXISTING CONDITIONS PLAN

SHEET NO.
CSP
 02 OF 6
 SITE PLAN NO.
 SD-14-00026

APPROVED
 NOV 07 2014
 PLANNING DEPT.
 CITY OF CEDAR PARK

Nov 06, 2014 - 9:54am Z:\HEA\new projects\projects 13-000\13-012 ymca twin lakes park\Drawings\Civil\SD 13-012SP100.dwg



CONNECT TO EXISTING 8" WATER

PROPOSED FIRE LINE BACKFLOW PREVENTER SEE SHEET C601

WASTEWATER FORCE MAIN CONNECTION TO EXISTING MANHOLE

PROPOSED 8" WATER LINE (PUBLIC)

SLIDE TOWER TERMINUS WITH CABLE ANCHORS

PROPOSED PRIVATE WASTEWATER FORCE MAIN AND PRIVATE FIRE LINE. SEE SHEETS C600-C609

MATCHLINE SEE SHEET C5P5

APPROVED

JUL 22 2015

PLANNING DEPT.
CITY OF CEDAR PARK

- SITE PLAN NOTES:
1. NO PARKING, DRIVE OR BUILDING IMPROVEMENTS PROPOSED FOR THIS AREA.
 2. WORK IN THIS AREA TO BE WASTEWATER AND FIRE UTILITY LINES TO SERVE HEALTH CARE.
 3. REFER TO SHEETS C400-C409 FOR PROPOSED GRADING.
 4. REFER TO SHEET LA5.03 FOR TREE SURVEY.

- FIRE PROTECTION NOTES:
1. NO CHANGES OR IMPROVEMENTS TO EXISTING FIRE FACILITIES PROPOSED FOR THIS AREA.



DATE SAVED: 04/13/15
 DRAWN BY: MARY REYNOLDS
 CHECKED BY: MARY REYNOLDS
 TERRY R. HAGOOD
 LICENSE NO. 23296
 MECHANICAL
 STATE OF TEXAS
 PROFESSIONAL ENGINEER

One Oakham Trail, Suite 2000
 Round Rock, TX 78681
 Phone (512) 744-1546
 Fax (512) 744-1546
 www.hagood.com
 TREC Registration No. F-12719
 JOB NO. 13-012 02015 HEA, Inc.

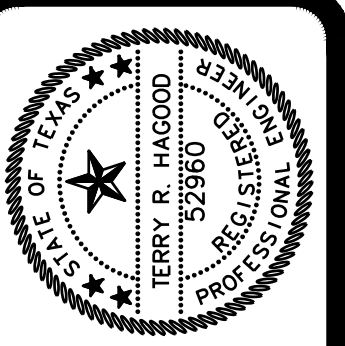
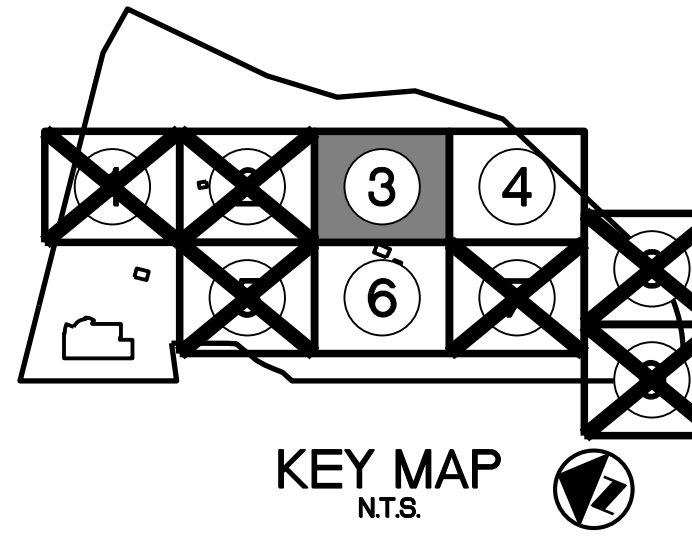
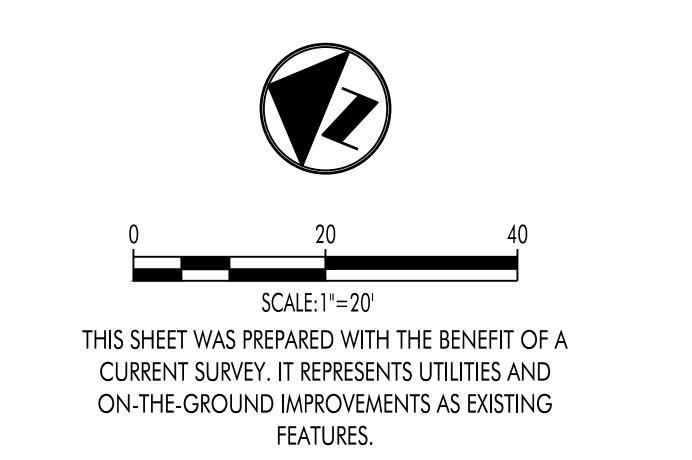
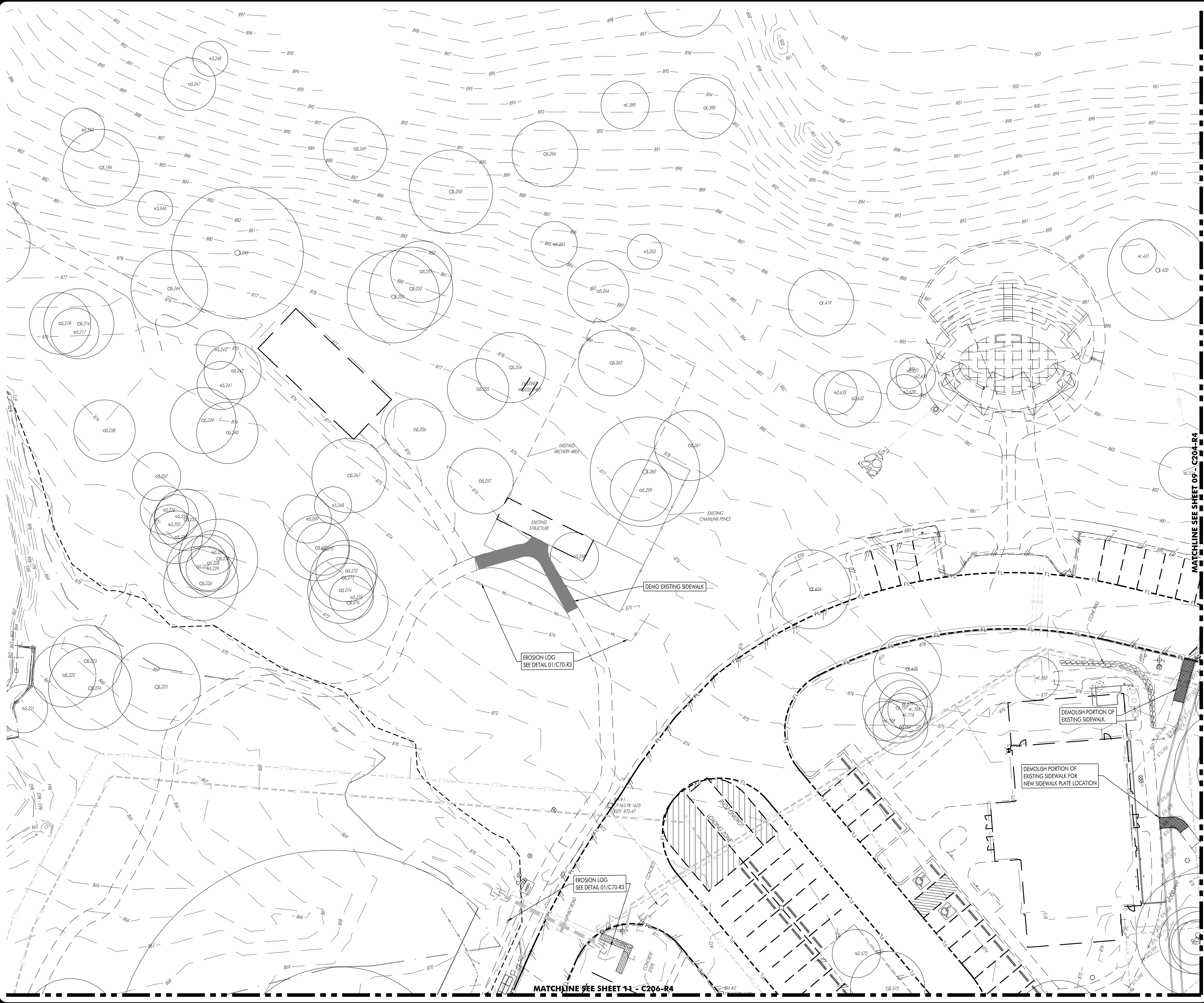


SITE DEVELOPMENT PLANS
TWIN LAKES YMCA
204 E. LITTLE ELM TRAIL
CEDAR PARK, TX 78613

NO.	DATE	DESCRIPTION	REVISIONS
1	04/13/15	ADDED 5 CABINS, MISC. PAVING AND UTILITIES	

HEA PROJECT NO. 13-012
 ISSUED DATE: 12/30/14
NORTHSIDE SITE
AND FIRE
PROTECTION
PLAN

SHEET NO.
CSPN
 03 OF 66
 SITE PLAN NO.
 SD-14-00026



DATE ISSUED: 6-2-2023
 ISSUED FOR: AS-BUILT

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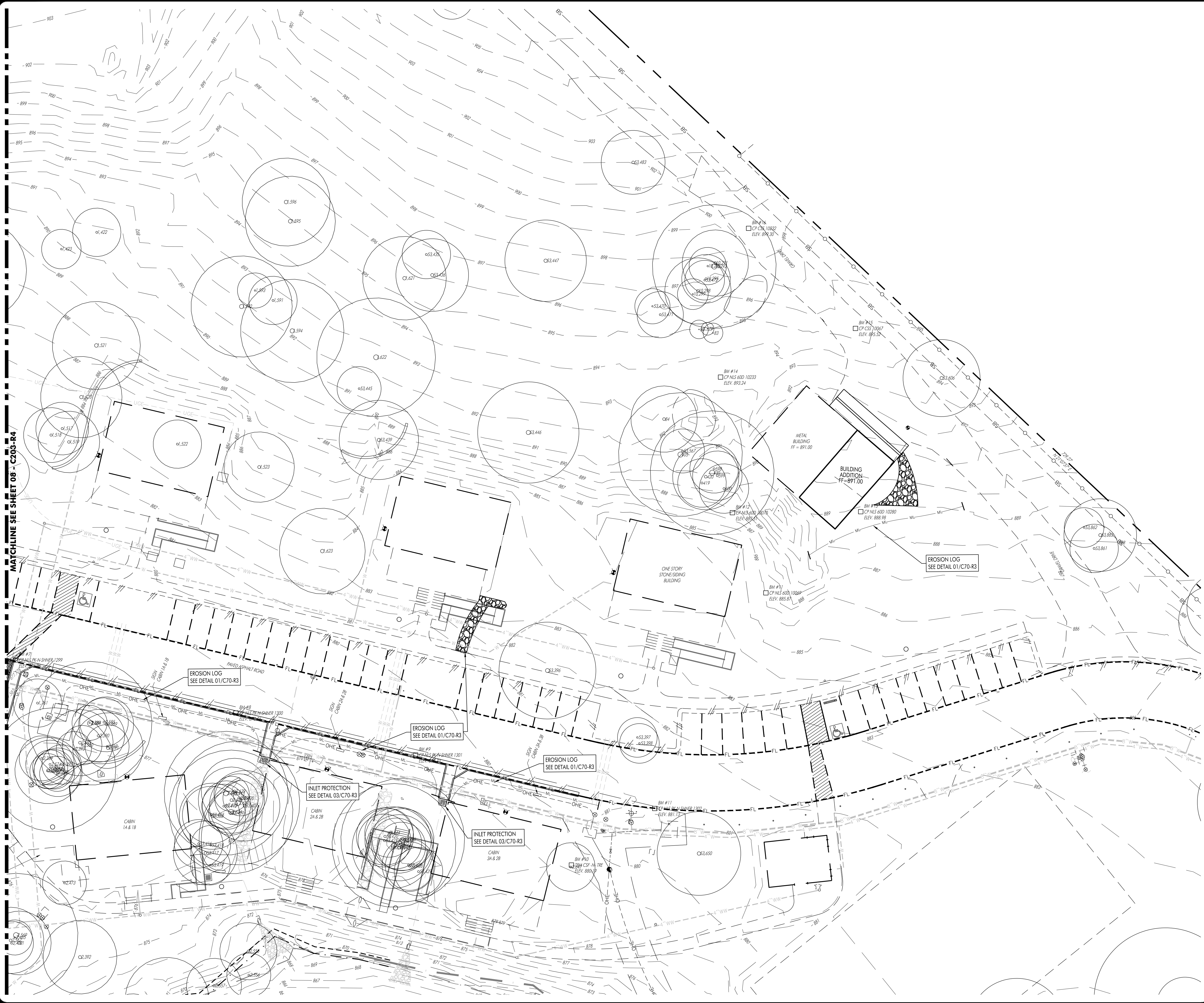
**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

**TEMPORARY E.S.C.
 AND DEMOLITION
 PLAN**

SHEET NO.
C203-R4
 08
 SITE PLAN NO.



MATCHLINE SEE SHEET 08 - C203-R4

SCALE: 1"=20'

THIS SHEET WAS PREPARED WITH THE BENEFIT OF A CURRENT SURVEY. IT REPRESENTS UTILITIES AND ON-THE-GROUND IMPROVEMENTS AS EXISTING FEATURES.

KEY MAP
N.T.S.



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**SITE DEVELOPMENT PLANS FOR
YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
204 E LITTLE ELM TRAIL
CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
ISSUED DATE: 6-2-2023

**TEMPORARY E.S.C.
AND DEMOLITION
PLAN**

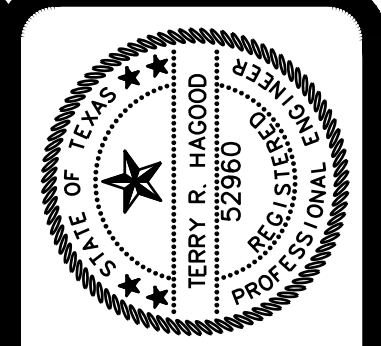
SHEET NO.
C204-R4
09
SITE PLAN NO.



SCALE: 1"=20'

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KEY MAP
N.T.S.



DATE SHOWN: 6-2-2023
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 JOB NO. 22-032-032 HEA, Inc.



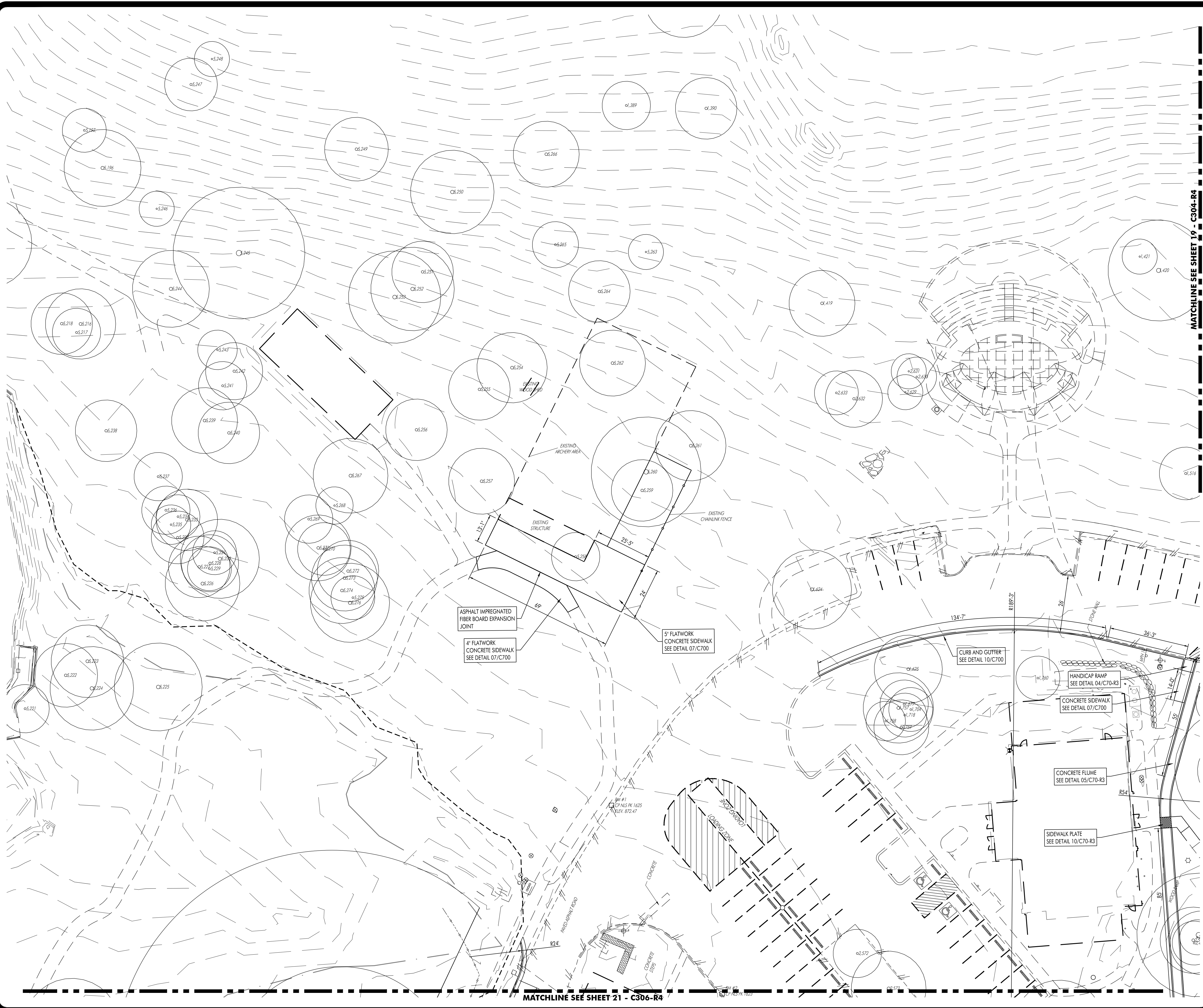
**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

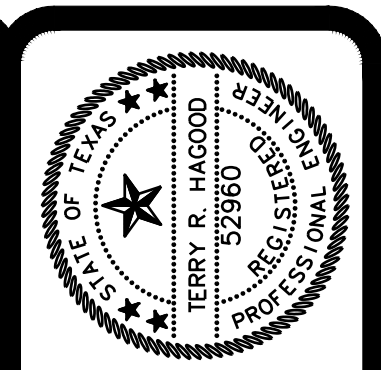
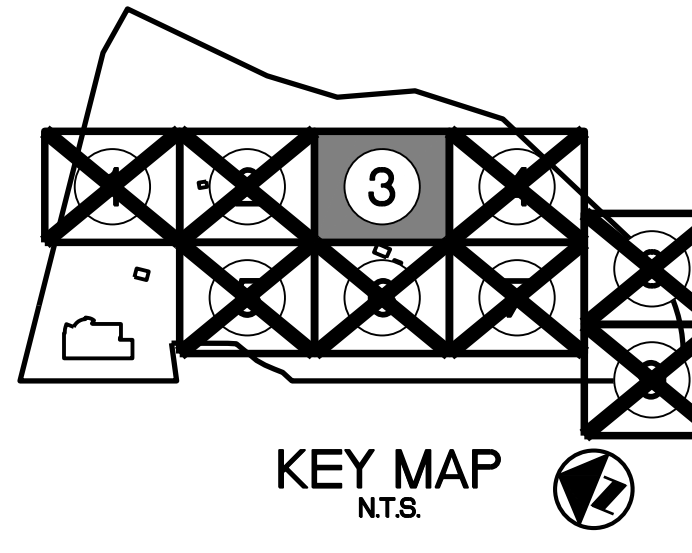
**TEMPORARY E.S.C.
 AND DEMOLITION
 PLAN**

SHEET NO.
C206-R4
 11
 SITE PLAN NO.



SCALE: 1"=20'

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HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

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**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

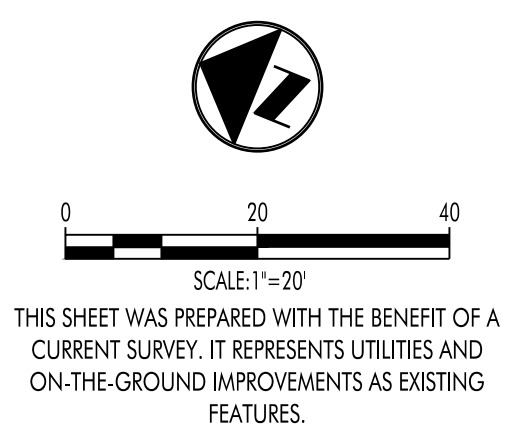
DIMENSION & PAVING PLAN

SHEET NO.
C303-R4
 18
 SITE PLAN NO.

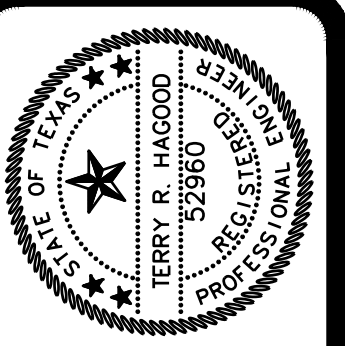
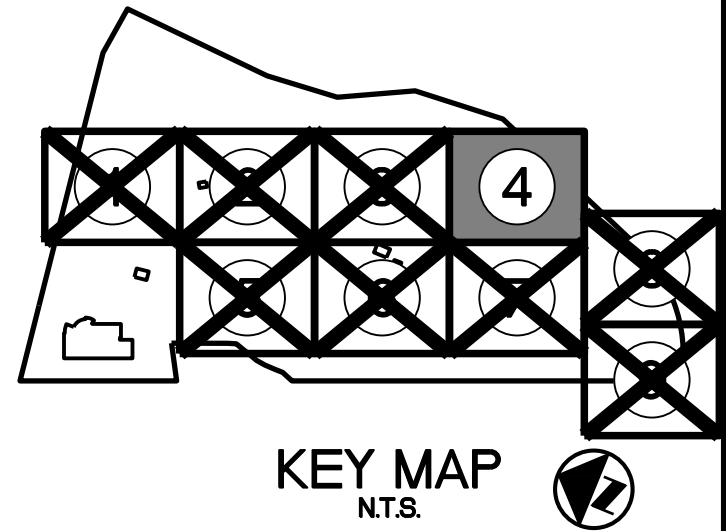
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MATCHLINE SEE SHEET 18 - C303-R4



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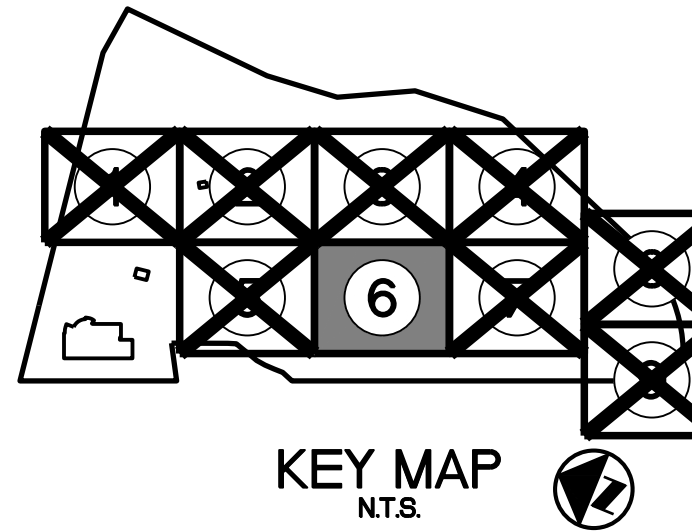
**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

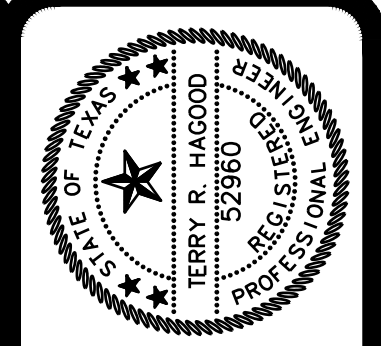
HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

DIMENSION & PAVING PLAN

SHEET NO.
C304-R4
 19
 SITE PLAN NO.



SCALE: 1"=20'
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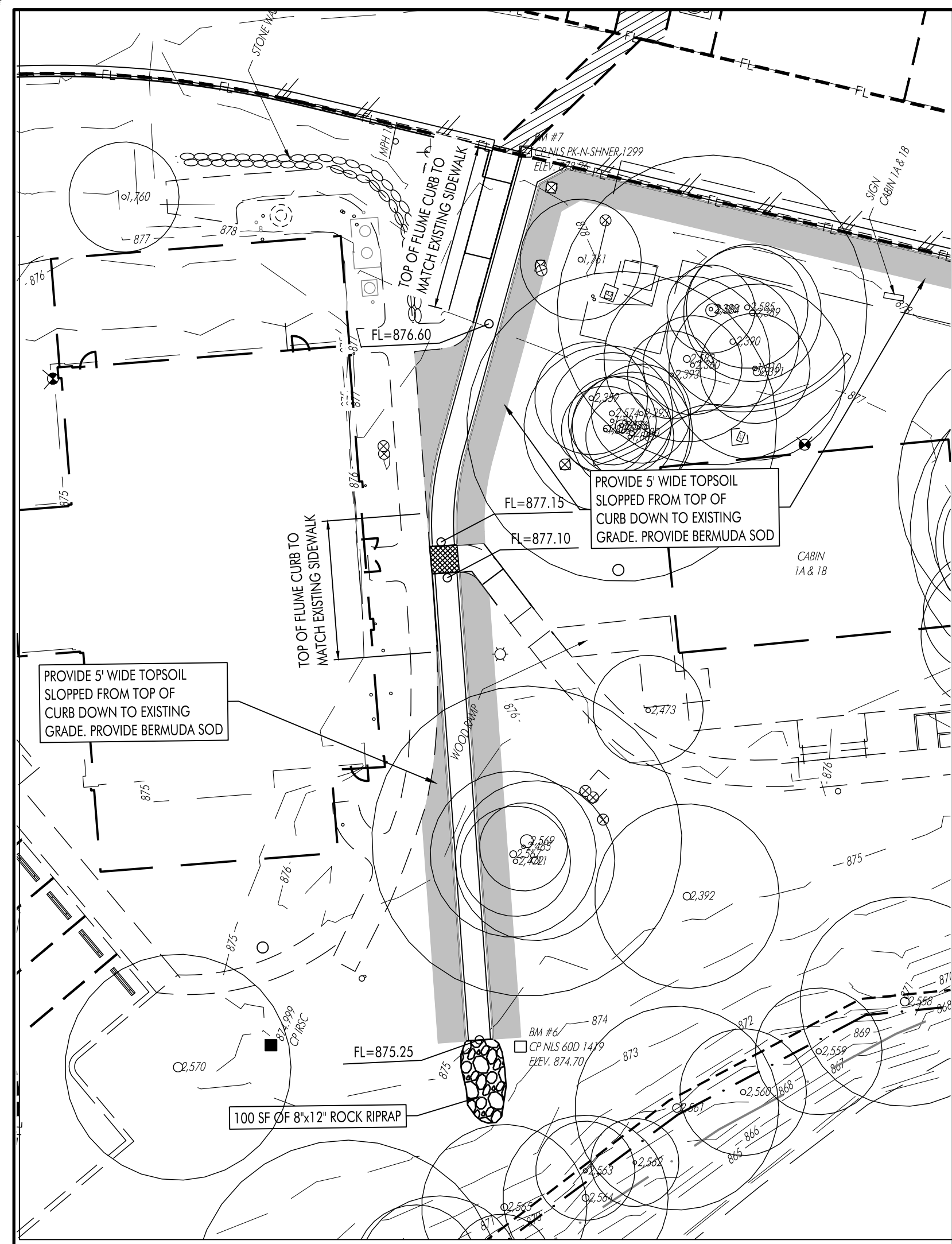
One Cabarrus, Inc., Suite 5300
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 www.hagood.com
 TPE Registration No. F-1770
 JOB NO. 22-032-032 HEA, Inc.



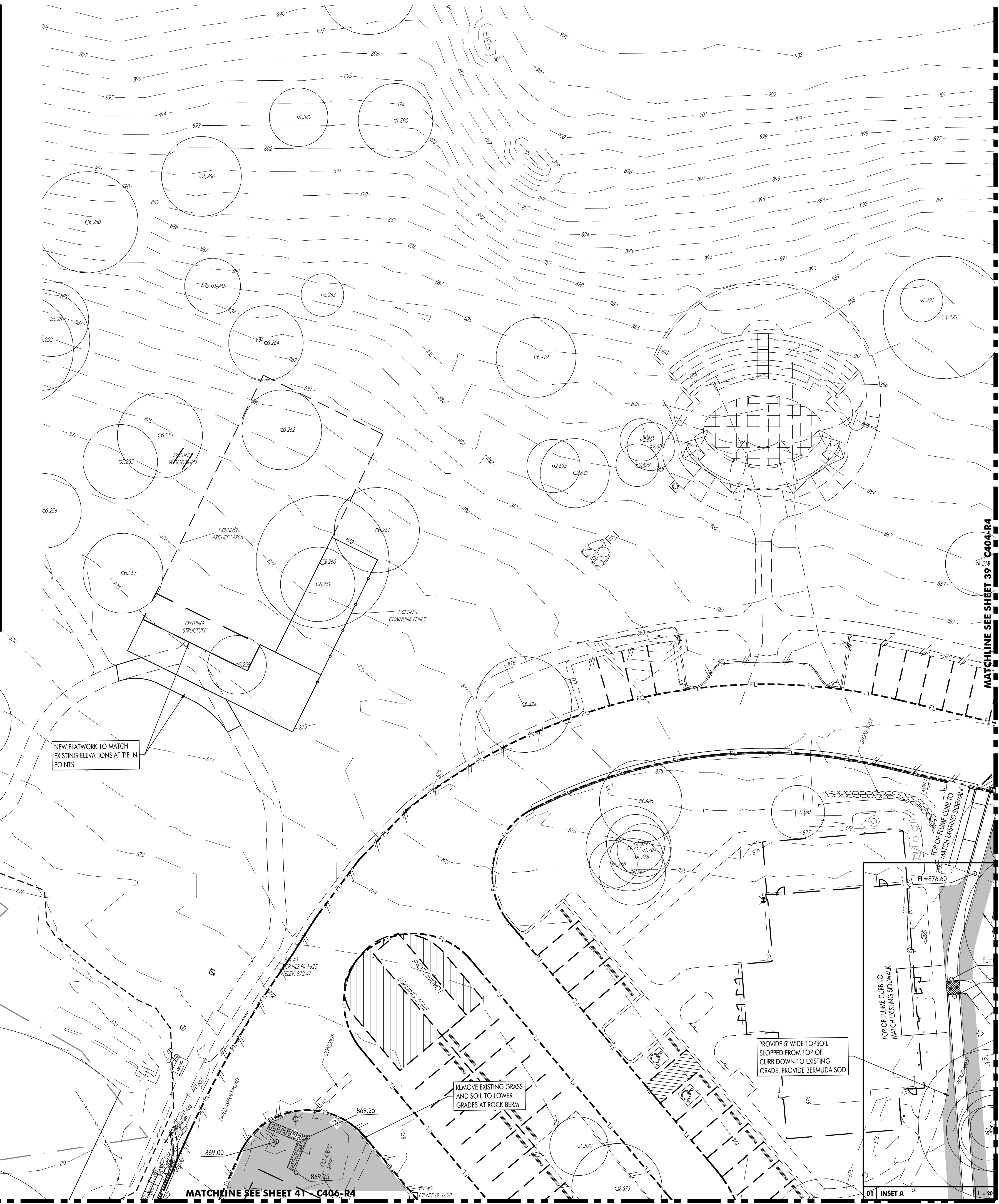
**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
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REVISIONS	
NO.	DESCRIPTION

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023
DIMENSION & PAVING PLAN
 SHEET NO.
C306-R4
 21
 SITE PLAN NO.



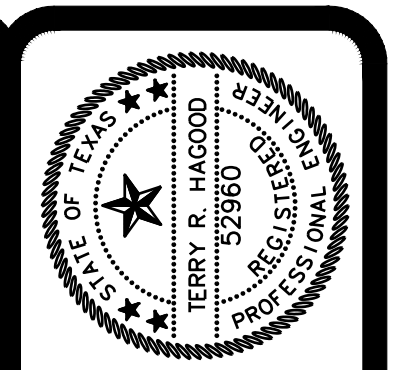
01 INSET A 1" = 20'



SCALE: 1" = 20'

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KEY MAP
NTS



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On: Cadman, Inc., Suite 5200
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**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

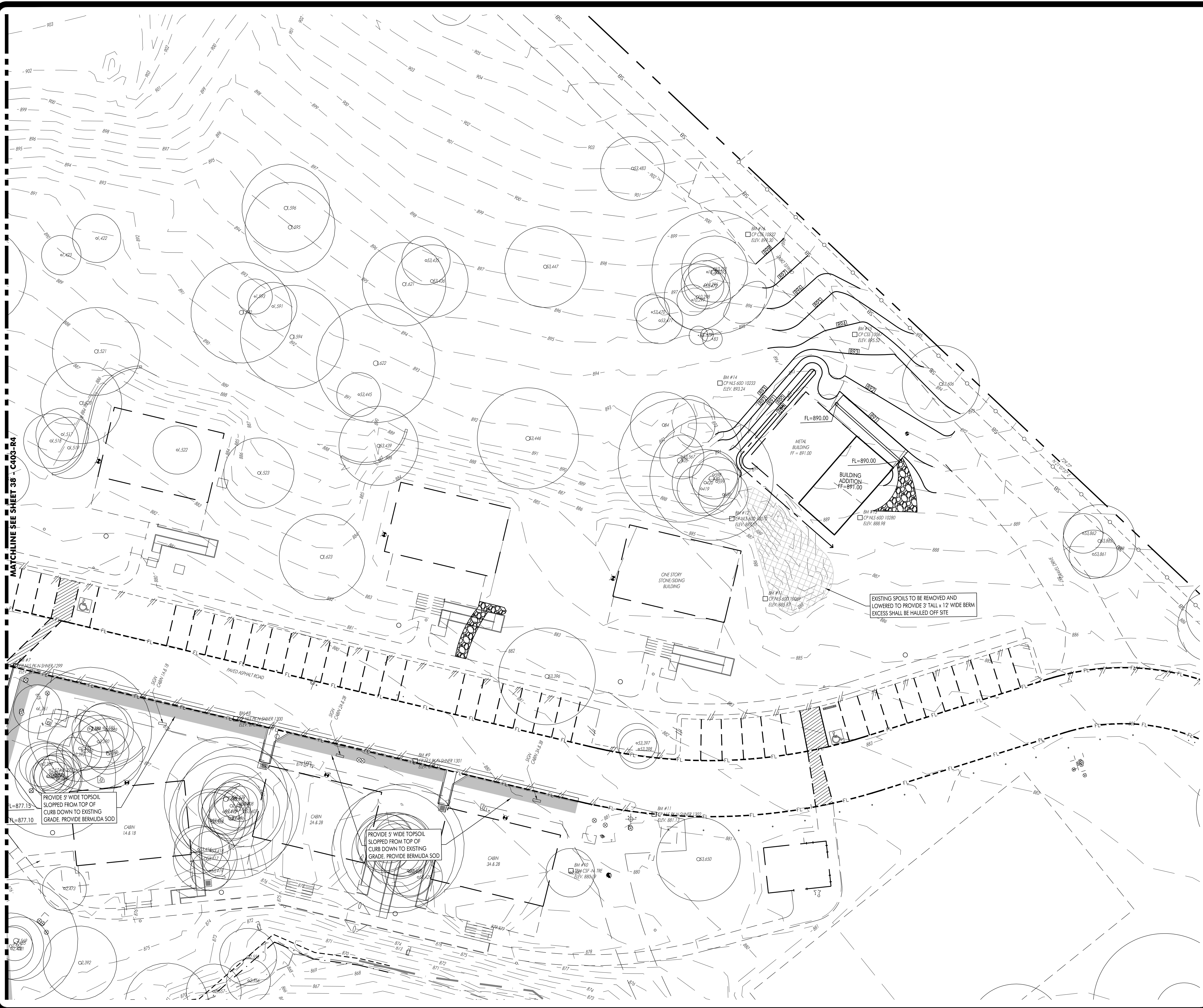
HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

GRADING PLAN

SHEET NO.
C403-R4

38

SITE PLAN NO.



MATCHLINE SEE SHEET 38 - C403-R4

SCALE: 1"=20'

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KEY MAP
N.T.S.

DATE SIGNED: 6-2-2023
ISSUED FOR: AS SHOWN

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Round Rock, TX 78681
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www.hagood.com
TPE Registration No. F-1770
JOB NO. 22-0202-032 HEA, Inc.

**SITE DEVELOPMENT PLANS FOR
YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
204 E LITTLE ELM TRAIL
CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
ISSUED DATE: 6-2-2023

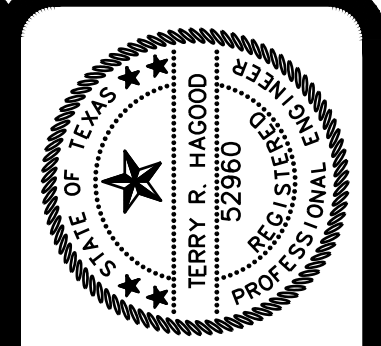
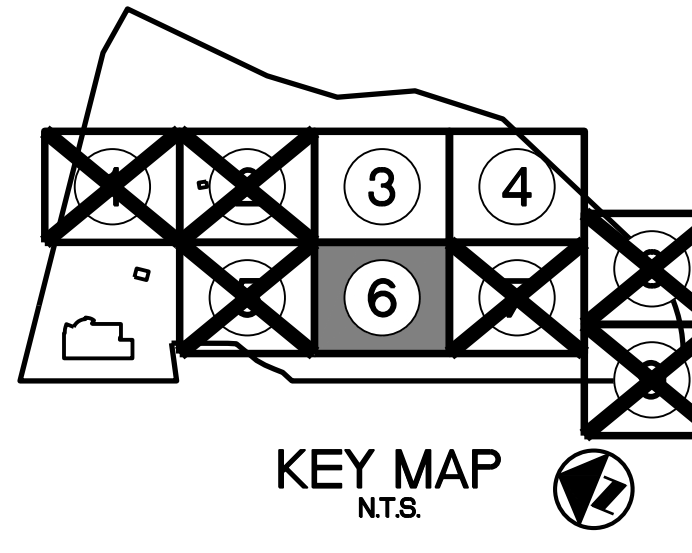
GRADING PLAN

SHEET NO.
C404-R4
39
SITE PLAN NO.



SCALE: 1"=20'

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DATE: 6-2-2023
 ISSUED FOR: [REDACTED]

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**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

GRADING PLAN

SHEET NO.
C406-R4
 41
 SITE PLAN NO.

Wet Basin Calculations

Load Calculation - L = A x P x Rv x C x 0.226

- Where:
L = annual pollutant load (pounds)
A = Contributing drainage area (acres)
P = Average annual precipitation (inches) (32 for Travis and Williamson County)
Rv = Runoff coefficient for the fraction of impervious cover

Rv = 0.546(IC)^2 + 0.328(IC) + 0.03
Where IC = fraction of impervious cover

C = Average TSS concentration (mg/L)
Post-Developed Load = 170 mg/L
Background or Pre-Developed Load = 80 mg/L
0.226 = units conversion factor

Background or Pre-Developed Load - L = P(Au x 0.54 + Ad x Rv, x 38.4)

- Where:
L = Annual pollutant load (pounds)
P = Average annual precipitation (inches)
Au = Area of the previously undeveloped portion of the tract (acres)
Ad = Area of the previously developed portion of the tract (acres)
Rv = Runoff coefficient of the previously developed portion

Post Developed Load - L = A x P x Rv, x 38.4

- Where:
L = Annual pollutant load (pounds)
A = Contributing drainage area (acres)
P = Average annual precipitation (inches)
Rv = Post development runoff coefficient

TSS Load Reduction
Required Reduction = 0.8 x (Post Development Load - Pre-Development Load)
Required Reduction = 8,012 pounds

Wet Basin System - Ln = L1 x F x Fraction of the Site Treated x (TSS Removal Efficiency)

- Where:
TSS Removal Efficiency for a Wet Basin System
Ln = Post Development Load
Ln = Required Reduction
F = Fraction of Load that must be captured

Entering Figure 3.8, the runoff depth associated with a fraction captured of 78 and an impervious cover of 26.8% is about 0.26 inches

Water Quality Volume = 52,917 ft^3

To allow for sediment accumulation, increase pond volume by 20%

Required Water Quality Volume = 63,500 ft^3

Sediment Forebay table with columns: 15%, 20%, 25% and values: 9,325, 12,700, 15,875

Texas Natural Resource Conservation Commission
Contributing Zone Plan
General Construction Notes

- 1. Written construction notification should be provided to the appropriate TNCRCC regional office no later than 48 hours prior to commencement of the regulated activity.
2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan and the TNCRCC letter indicating the specific conditions of its approval.
3. No temporary aboveground hydrocarbon and hazardous substance storage tank system may be installed within 150 feet if a domestic, industrial, irrigation, or public water supply well.
4. Prior to commencing construction, all temporary erosion and sedimentation (E&S) control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices.
5. 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.
6. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%.
7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges.
8. All spoils (excavated material) generated from the project site and stored on-site must have proper E&S controls installed.
9. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased.
10. The following records should be maintained and made available to the TNCRCC upon request: 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.
11. The holder of any approved Contributing Zone plan must notify the appropriate regional office in TNCRCC-0582A (Rev. 5/01/02)

writing and obtain approval from the executive director prior to initiating any of the following:

- A. any physical or operational modification of any best management practices or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures.
B. any change in the nature or character of the regulated activity from that which was originally approved;
C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer and hydrologically connected surface water; or
D. any development of land previously identified in a contributing zone plan as undeveloped.

Regional Office contact information for Austin and San Antonio.

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

SUMMARY OF WATER QUALITY DESIGN PARAMETERS FOR ENTIRE 56,068-ACRE SITE

The overall site plan, sheet C-7 of the plan set, shows the entire 56,068-acre park/YMCA site to be developed in four (4) phases. Permit and construction drawings for Phase 1 comprise the plan set; however, water quality controls are to be constructed for Phases 1, 2 & 3. The future or final phase is the bulk of the park land.

Extra impervious cover of 2.76 acres for small future expansions to the plan are allocated as noted on the plan and in chart below.

Table: IMPERVIOUS COVER BY PHASES with columns: Existing I.C., Proposed I.C. Per Plan, Additional Allocated I.C., Allocated I.C. For Design

The on-site drainage to the wet basin is broken down into three (3) drainage areas. Two of the three areas serve all improvements in Phases 1, 2 & 3. These areas (← and ↑) drain to two forebays adjacent to the wet basin, which is the private lake adjacent to all phases. The future phase which is the primary park land area is presently draining in a sheet flow situation to the lake. This plan does not address how the forebays will be designed in the future phase. At the time of development of the future phase, a plan will be submitted to show forebays similar to those used for Phases 1, 2 & 3.

This plan set for Phases 1, 2 & 3 provides construction plans for construction of two forebays from drainage areas ← and ↑. The impervious cover calculations for drainage areas are as follows:

Table: IMPERVIOUS COVER BY DRAINAGE AREA with columns: Drainage Area, Description of Drainage Area, Existing Impervious, Proposed I.C. Per Plan, Additional Allocated, Allocated I.C. For Design, Remarks

The proposed BMP for this project is the Wet Basin, per Section 3.2.7, 3.4.8 and 4.3 of the TNCRCC Technical Guidance regulations.

The first step is to verify that the overall project area of 56,068 acres can be handled by the wet basin, which in this case is the private lake with an average surface area of 12,06 acres at the normal level of elevation 863.0. At 12.06 acres of surface area, we get a volume of 525,333 cubic feet in the first foot of elevation below the surface (elevation 863.0 to 862.0). The lake has tapered banks and vegetation indicative of the requirements of Section 3.2.7. The lake is as much as 16 feet deep in the main body and averages 5 to 10 feet deep in most areas of the lake bottom at the low points.

With the requirement for the entire 56,068-acre site at 26.75% impervious (14,998 acres) equalling 63,500 cubic feet of volume, the lake with probably several million cubic feet and 525,333 cubic feet in the first foot of volume very easily handles the requirements and demonstrates that, even with the lake being an on-line basin, there is adequate water quality treatment capacity.

The sediment forebays for drainage areas 1 & 2 are sized for their prospective drainage areas, based on 20% of that pro-rata required basin volume (total of 63,500 c.f.). The minimum forebay volumes (a minimum of 3 feet deep) are as follows:

Table: SEDIMENT FOREBAY VOLUMES with columns: Drainage Area, Drainage Area in Acres, % of Total Water Quality (63,500 c.f.), 20% of 63,500 c.f., Minimum Forebay Volume in Cubic Feet

Note: The forebay designs for Drainage Area 3 will be determined in the design of final phase 4 of the project, requiring an additional contributing zone plan and SWPPP for that phase.

The sediment forebays are designed to be primarily dry basins with overflow weirs at the 2- and 10-year storm events. The volume in the forebays will be routed in a ratio of 1:4, width to length, to intensify settlement. The volume captured will eventually perk

DESIGN ENGINEER HAS REVIEWED APPLICABLE PLANS PERTAINING TO THE DETENTION CALCULATIONS AND ASSUMPTIONS THESE PLANS PROPOSE TO UTILIZE AND AGREES WITH THE DESIGN. THE PROPOSED DEVELOPMENT WILL NOT ADVERSELY AFFECT DOWNSTREAM PROPERTIES.



BAKER-AICKLEN & ASSOCIATES, INC. ENGINEERS/SURVEYORS
4015 BRANT CREEK RD. CEDAR PARK, TEXAS 78613
(512) 260-9700

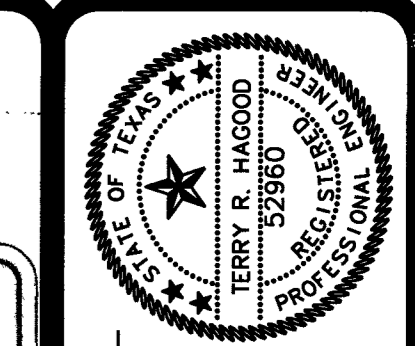


Table with columns: No., DATE, REVISIONS

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Client and project information: WILLIAMSON COUNTY AND YMCA OF GREATER WILLIAMSON COUNTY, PROJECT: TWIN LAKES PARK- TRAIL HEAD PARKING- YMCA SITE IMPROVEMENTS

Project and sheet information: PROJECT No. 0711-3-014-22, SHEET No. C-8 SHT. 8 OF 52



DATE ISSUED: 11/7/14
ISSUED FOR: [Signature]

One Children Park, Suite 500
Round Rock, TX 78681
Phone (512) 244-1546
Fax (512) 244-1010
TREC Registration No. F-12709
JOB No. 13-012 2014.HA.1A



SITE DEVELOPMENT PLANS
TWIN LAKES YMCA
204 E. LITTLE ELM TRAIL
CEDAR PARK, TX 78613

Table with columns: NO., DESCRIPTION, DATE

Table with columns: NO., DESCRIPTION, DATE

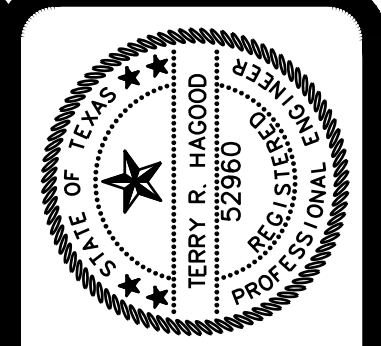
Project and sheet information: PROJECT No. 0711-3-014-22, SHEET No. C500B 46 OF 66, SITE PLAN NO. SP-14-00026



SCALE: 1"=40'

THIS SHEET WAS PREPARED WITH THE BENEFIT OF A CURRENT SURVEY. IT REPRESENTS UTILITIES AND ON-THE-GROUND IMPROVEMENTS AS EXISTING FEATURES.

KEY MAP
NT.S



DATE SIGNED: 6-2-2023
 ISSUED FOR: AS SHOWN

BY: TERRY H. HAGOOD
 LICENSE NO. 12980
 MECHANICAL

ONE CASHAM ROAD, SUITE 5200
 ROUND ROCK, TX 78681
 PHONE (512) 244-1546
 WWW.HAGOOD.COM
 TPE Registration No. F-1770
 JOB NO. 22-000122-032 HEA, Inc.



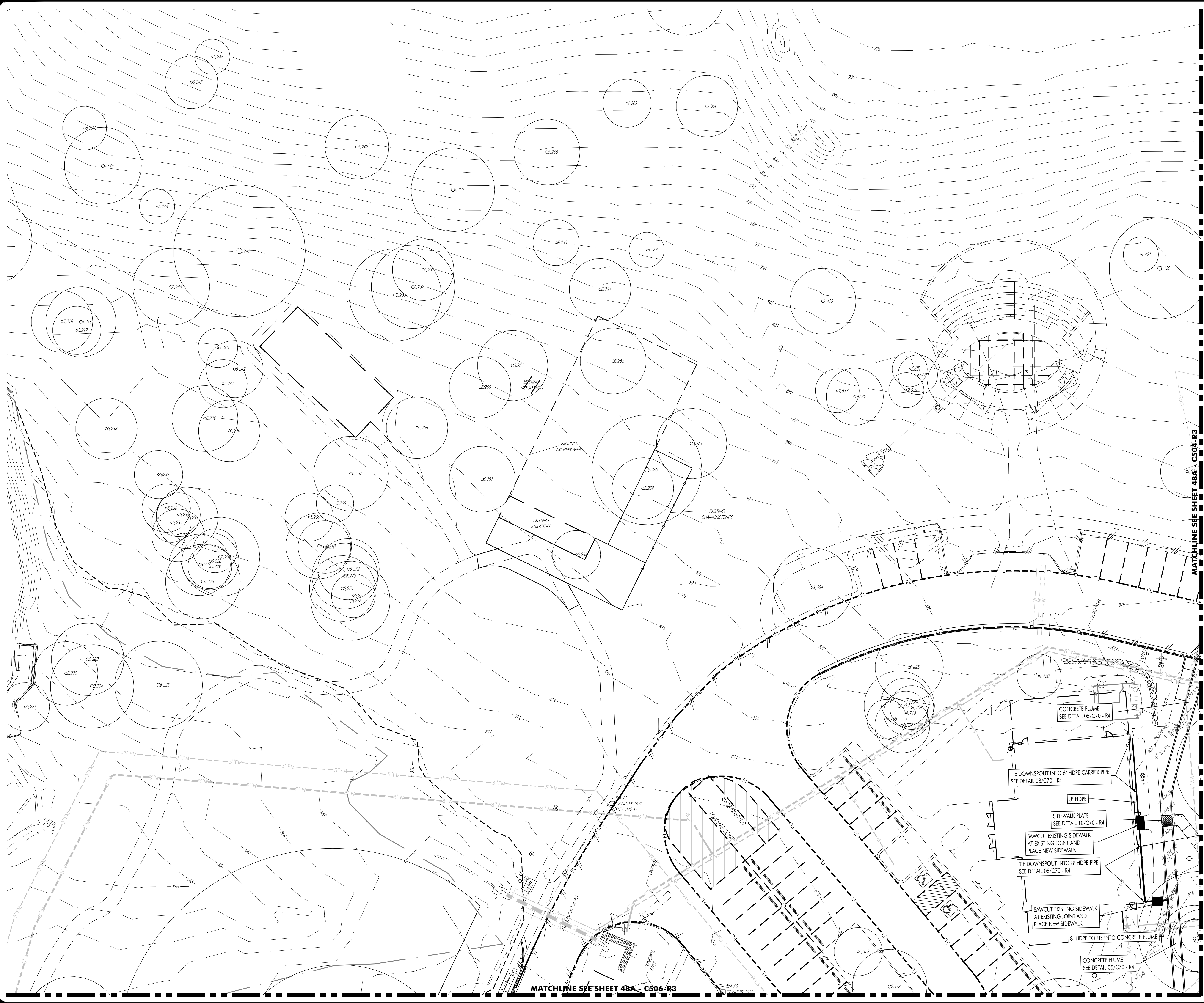
**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

OVERALL DRAINAGE PLAN

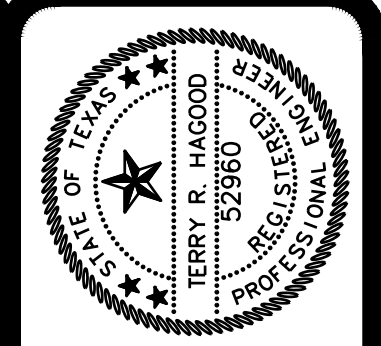
SHEET NO.
C500 - R4
 4BA
 SITE PLAN NO.



SCALE: 1"=20'

THIS SHEET WAS PREPARED WITH THE BENEFIT OF A CURRENT SURVEY. IT REPRESENTS UTILITIES AND ON-THE-GROUND IMPROVEMENTS AS EXISTING FEATURES.

KEY MAP
N.T.S.



DATE ISSUED: 6-2-2023
 ISSUED FOR: AS NOTED

BY: P. HAYWOOD
 TITLE: PROJECT ENGINEER

FOR THE ARCHITECT: THE ARCHITECT HAS REVIEWED THIS SHEET AND HAS APPROVED THE INFORMATION SHOWN HEREON AS ACCURATE AND COMPLETE. THE ARCHITECT'S REVIEW IS LIMITED TO THE INFORMATION SHOWN ON THIS SHEET AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION SHOWN ON THIS SHEET.

One Cabarrus Road, Suite 5000
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 Phone (512) 244-1546
 Fax (512) 244-1010
 www.hagood.com
 TPE Registration No. F-17709
 JOB NO. 22-032-032 HEA, Inc.



**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

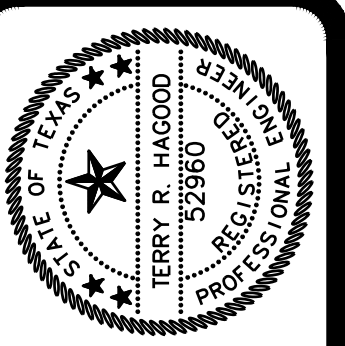
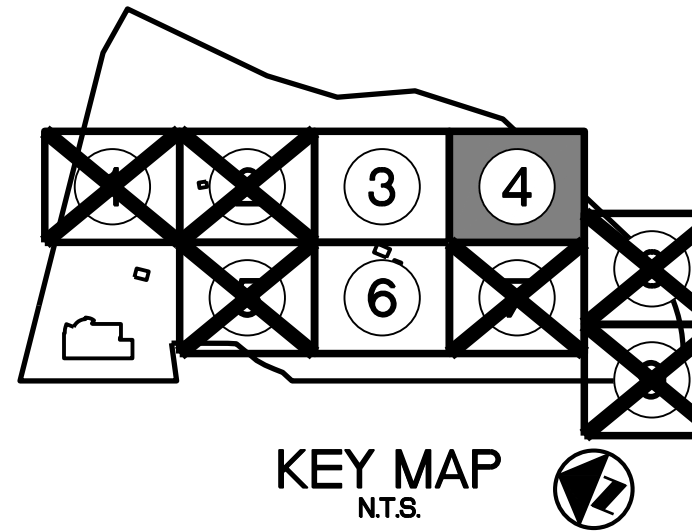
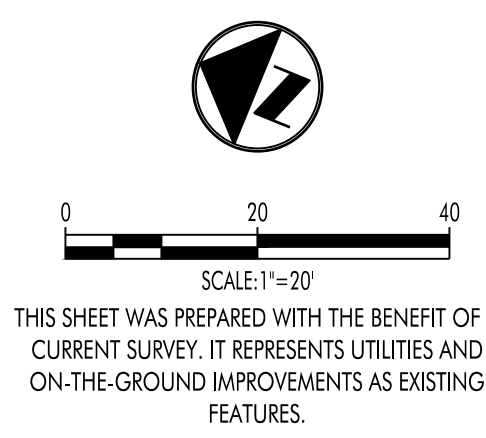
NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

DRAINAGE PLAN

SHEET NO.
C503 - R4
 48B
 SITE PLAN NO.

48B C503 - R3_6/5/2023 9:01:34 AM_TerrHy
 Jun 05 2023 9:01 am Z:\HEA\HEA Projects\22-000\22-032 YMCA Camp Twin Lakes - Drainage Improvements\CAD Files\Civil\SD\48A C503 - R3.dwg



DATE SIGNED: 6-2-2023
 ISSUED FOR: ASBESTOS REMEDIATION
 THE SEAL, SIGNATURE AND THE ADDRESS OF THE ENGINEER SHALL BE KEPT ON FILE AND SHALL BE AVAILABLE TO THE PUBLIC UPON REQUEST. THE SEAL SHALL BE KEPT ON FILE IN THE OFFICE OF THE ENGINEER.

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 Round Rock, TX 78681
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 TPE Registration No. F-17709
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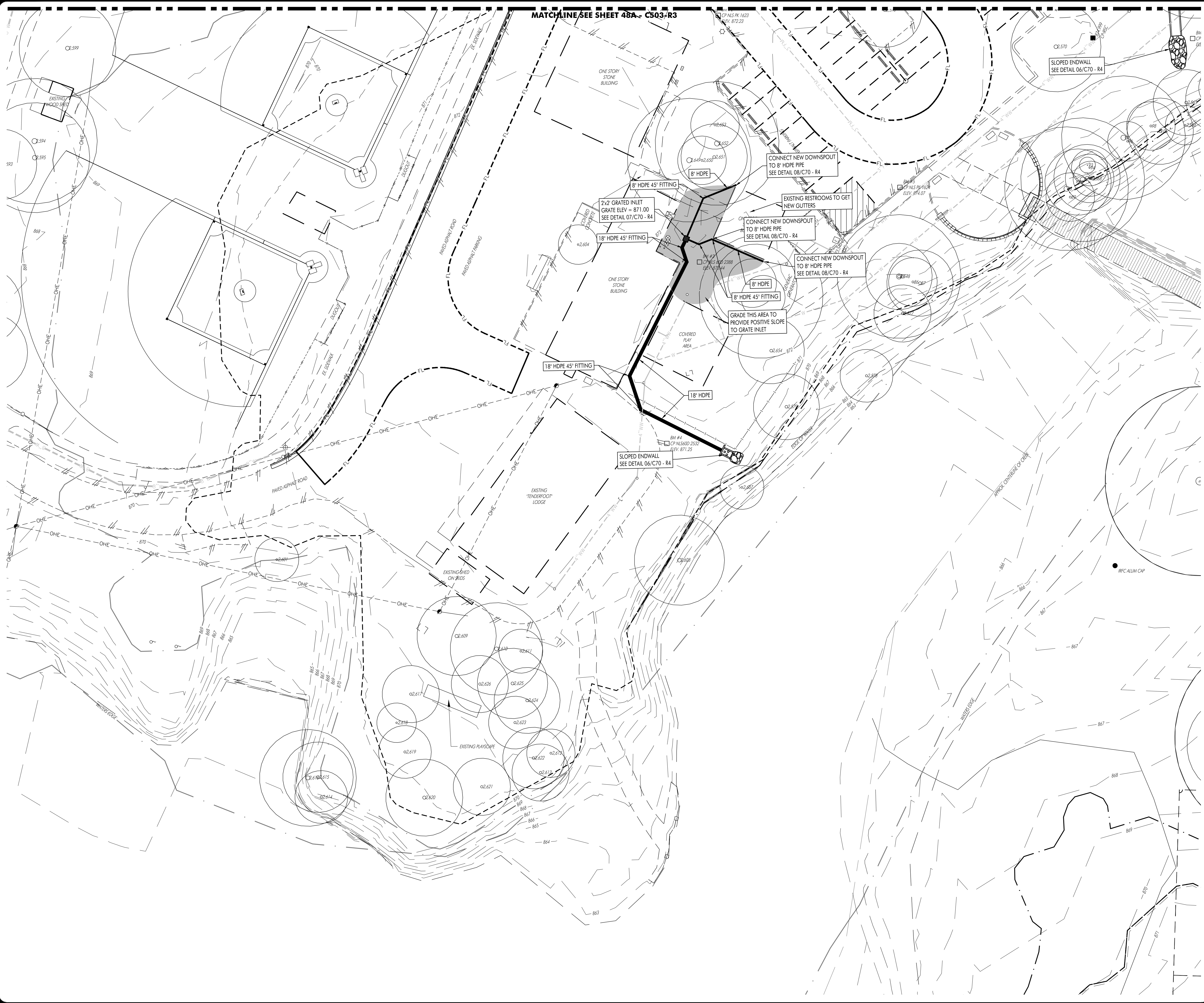
**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
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 CEDAR PARK TX, 78613**

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

DRAINAGE PLAN

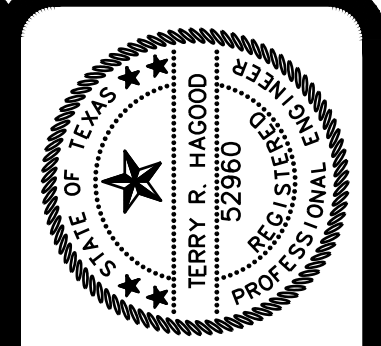
SHEET NO.
C504 - R4
 48B
 SITE PLAN NO.



SCALE: 1"=20'

THIS SHEET WAS PREPARED WITH THE BENEFIT OF A CURRENT SURVEY. IT REPRESENTS UTILITIES AND ON-THE-GROUND IMPROVEMENTS AS EXISTING FEATURES.

KEY MAP
NT.S



DATE: 05/2023
 ISSUED FOR: [REDACTED]

One Oakham, Inc., Suite 5200
 Round Rock, TX 78681
 Phone (512) 244-1546
 www.hagoodeng.com
 TPE Registration No. F-1770
 JOB NO. 22-00122-032 HEA, Inc.



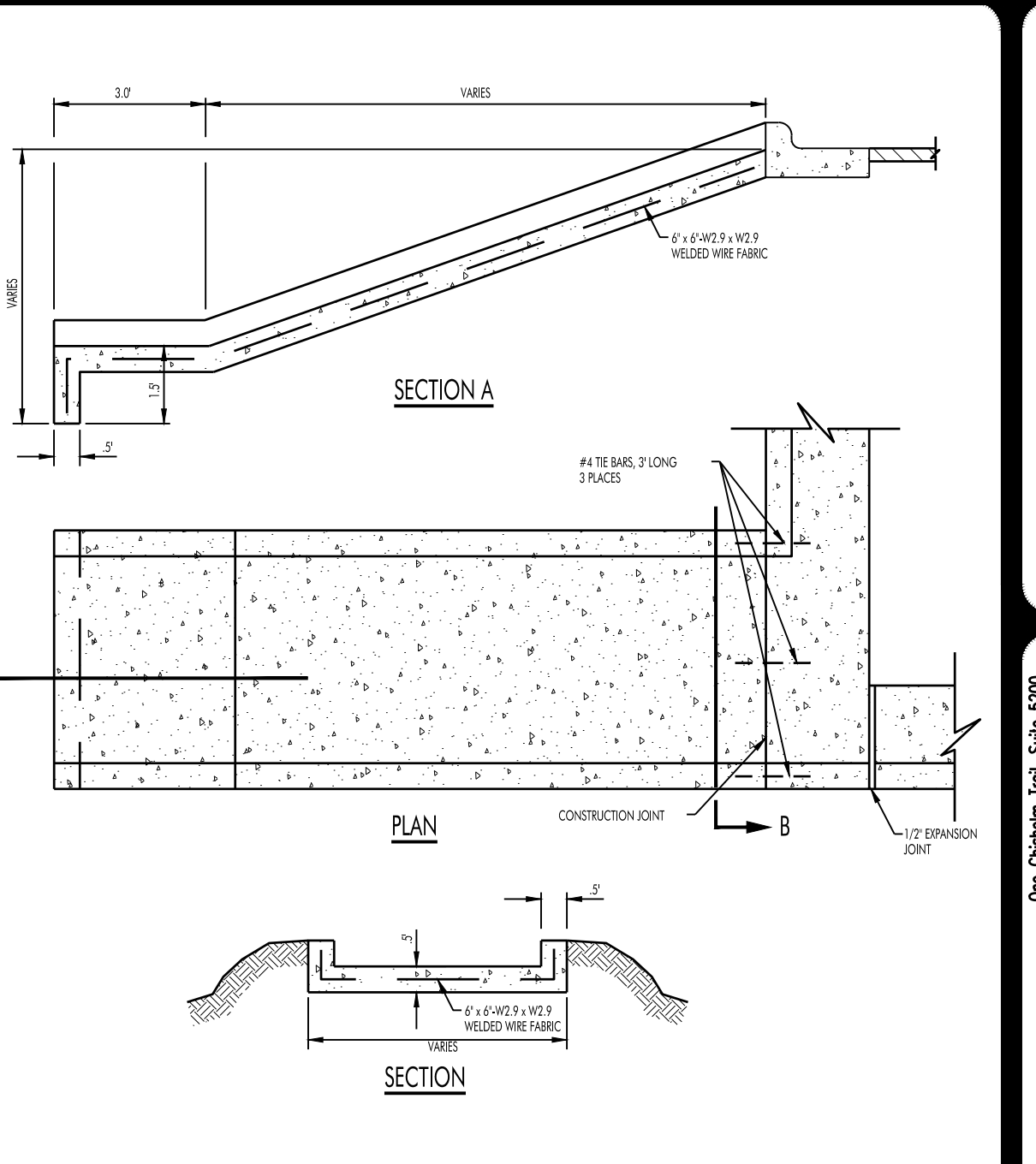
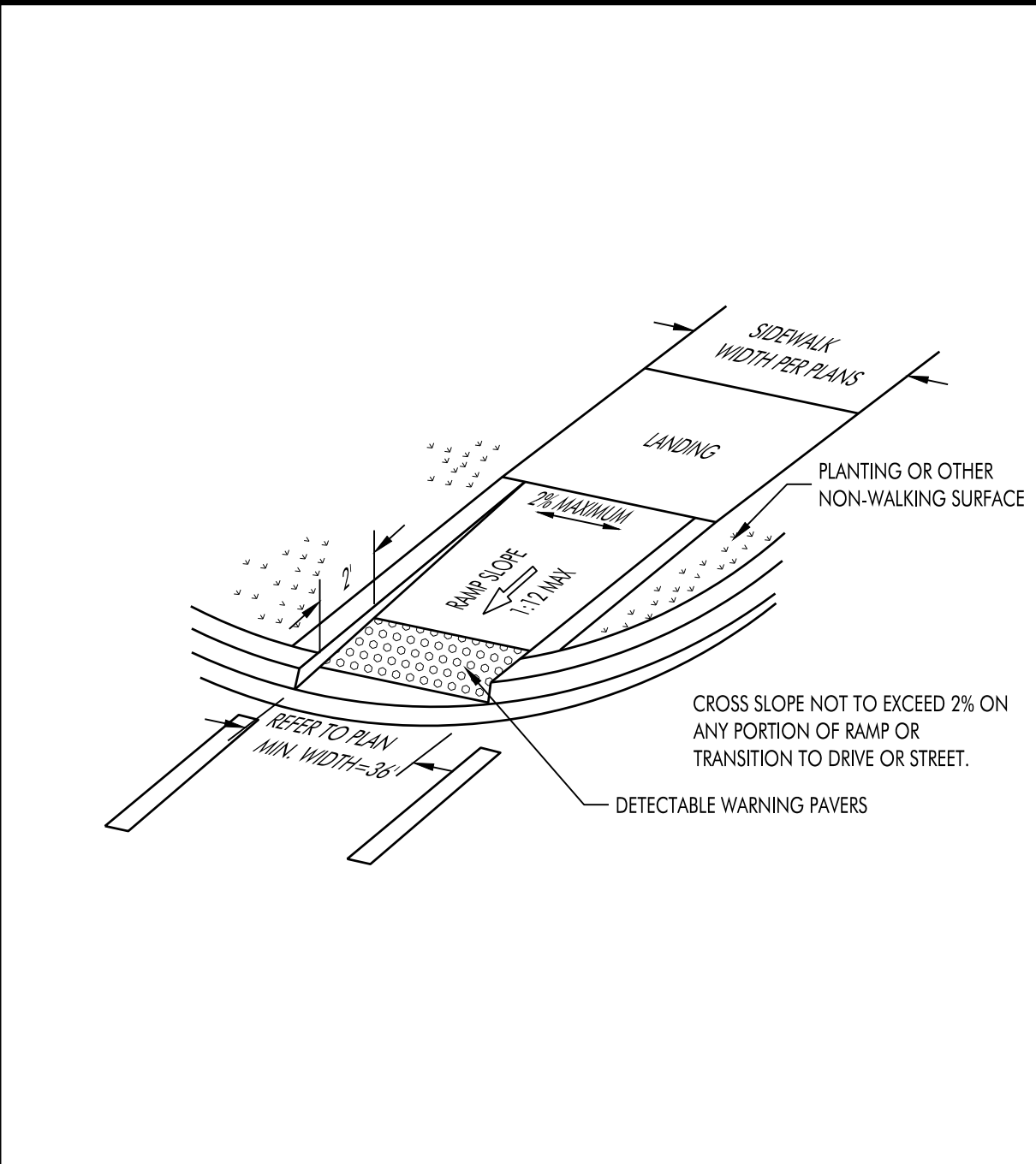
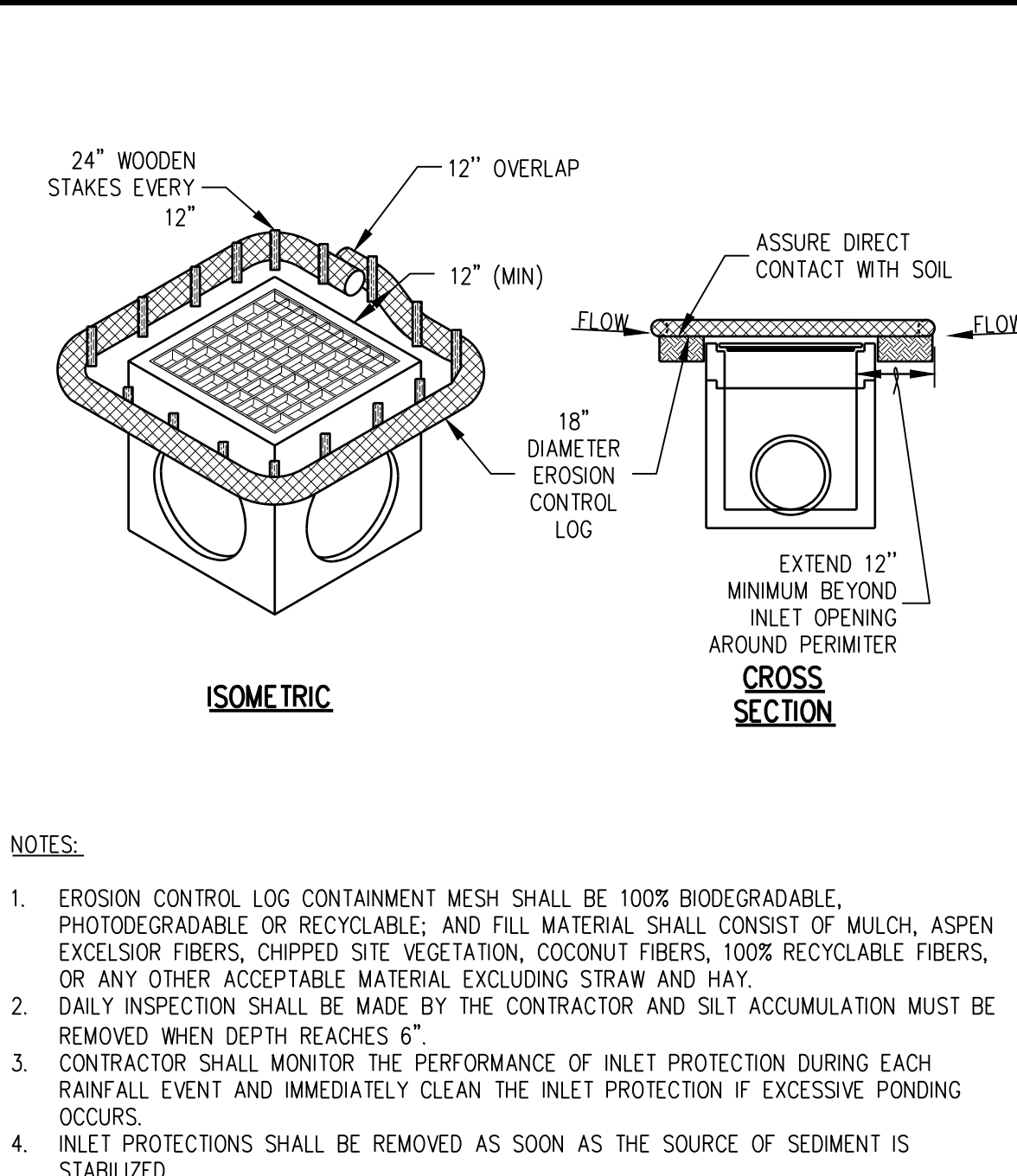
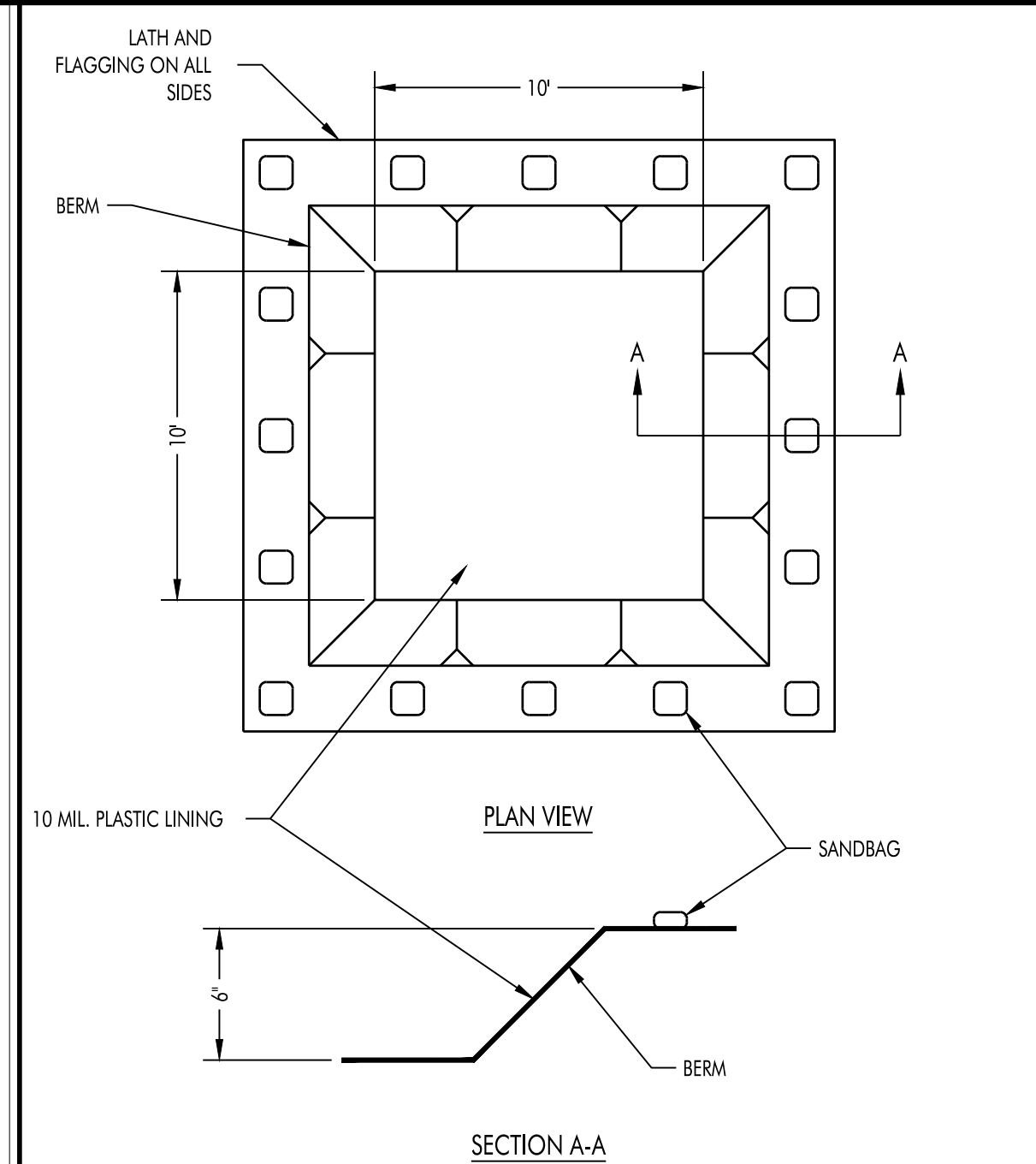
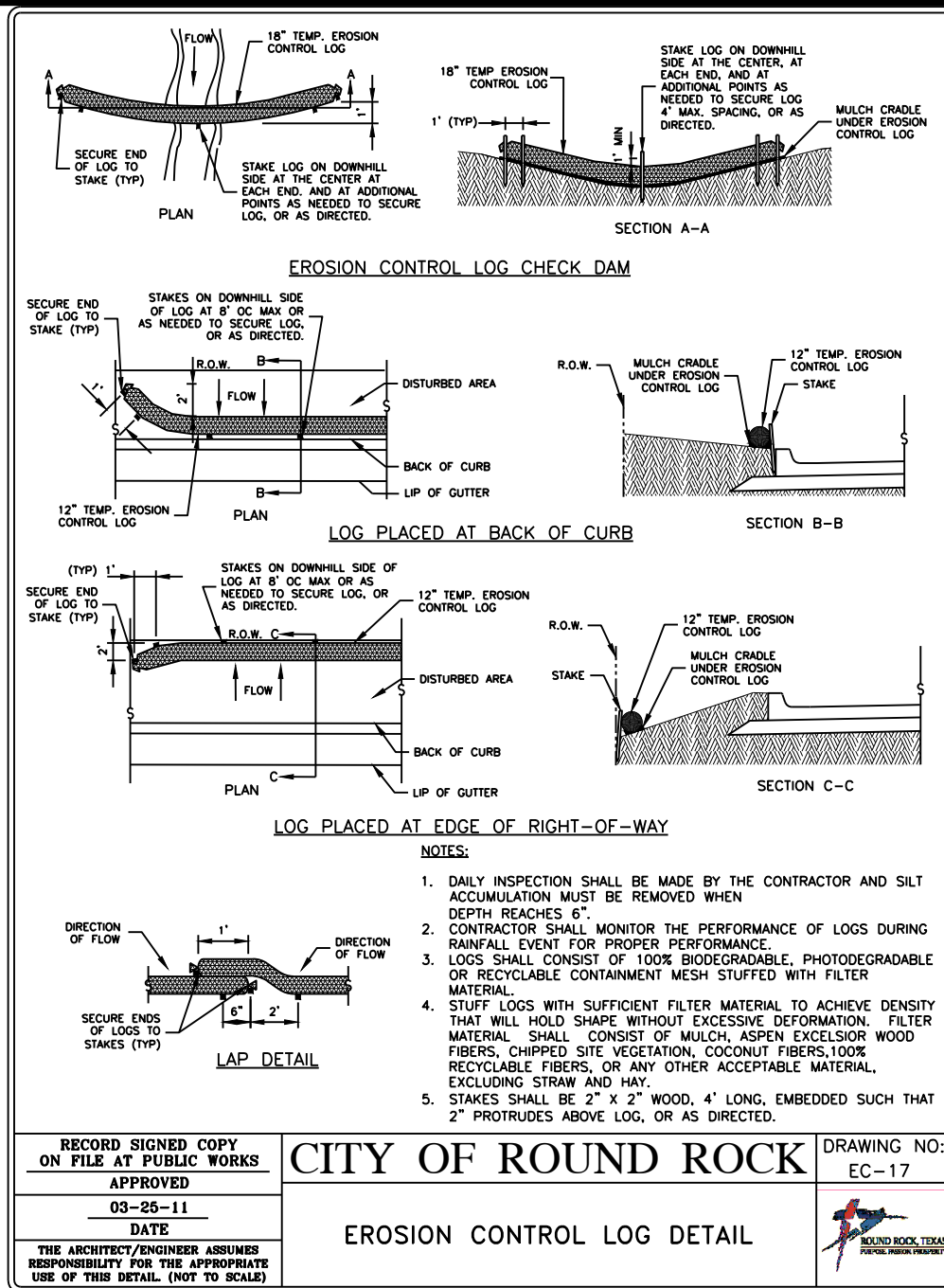
**SITE DEVELOPMENT PLANS FOR
 YMCA CAMP TWIN LAKES - DRAINAGE IMPROVEMENTS
 204 E LITTLE ELM TRAIL
 CEDAR PARK TX, 78613**

REVISIONS	
NO.	DESCRIPTION

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

DRAINAGE PLAN

SHEET NO.
C506 - R4
 488
 SITE PLAN NO.



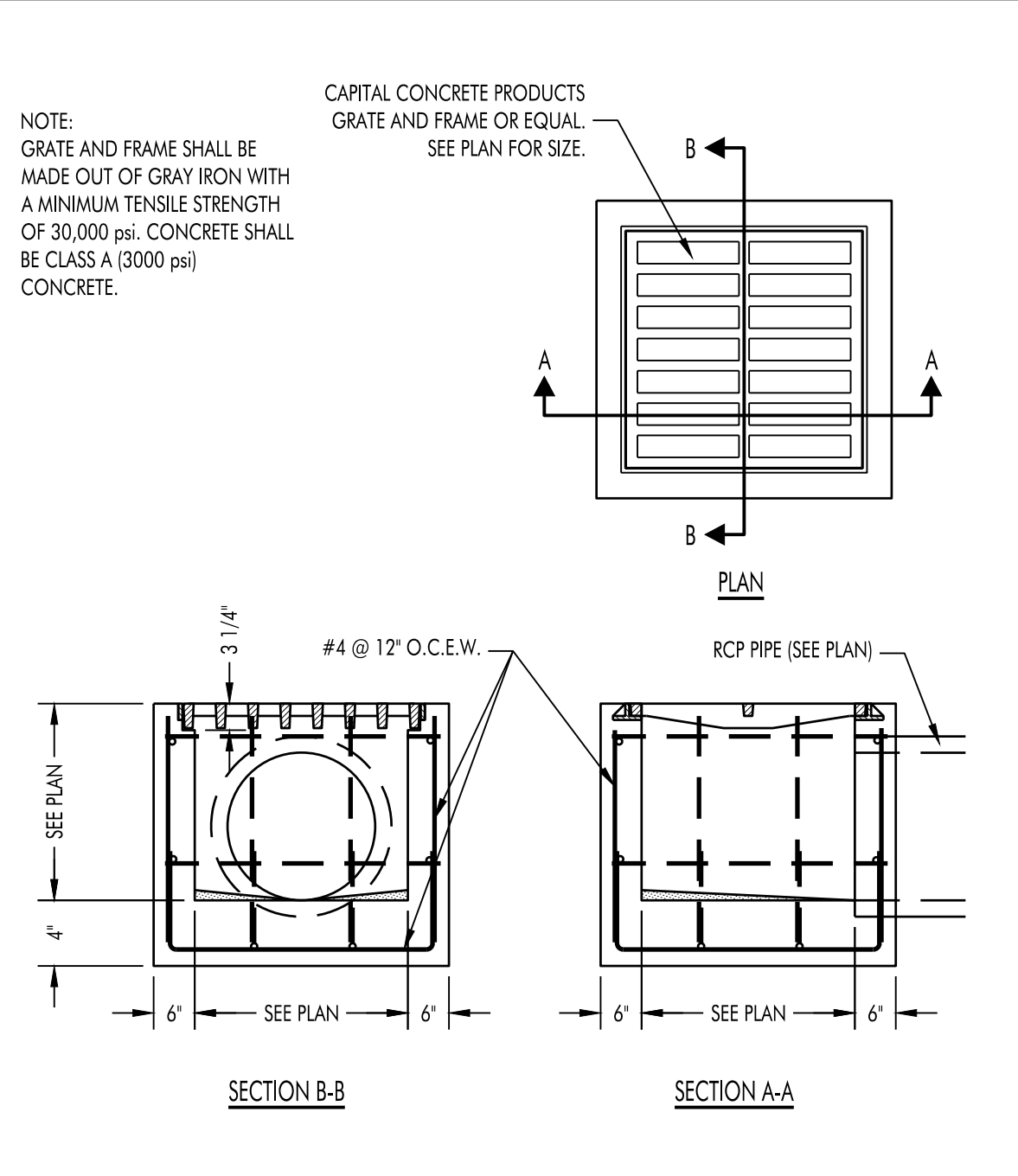
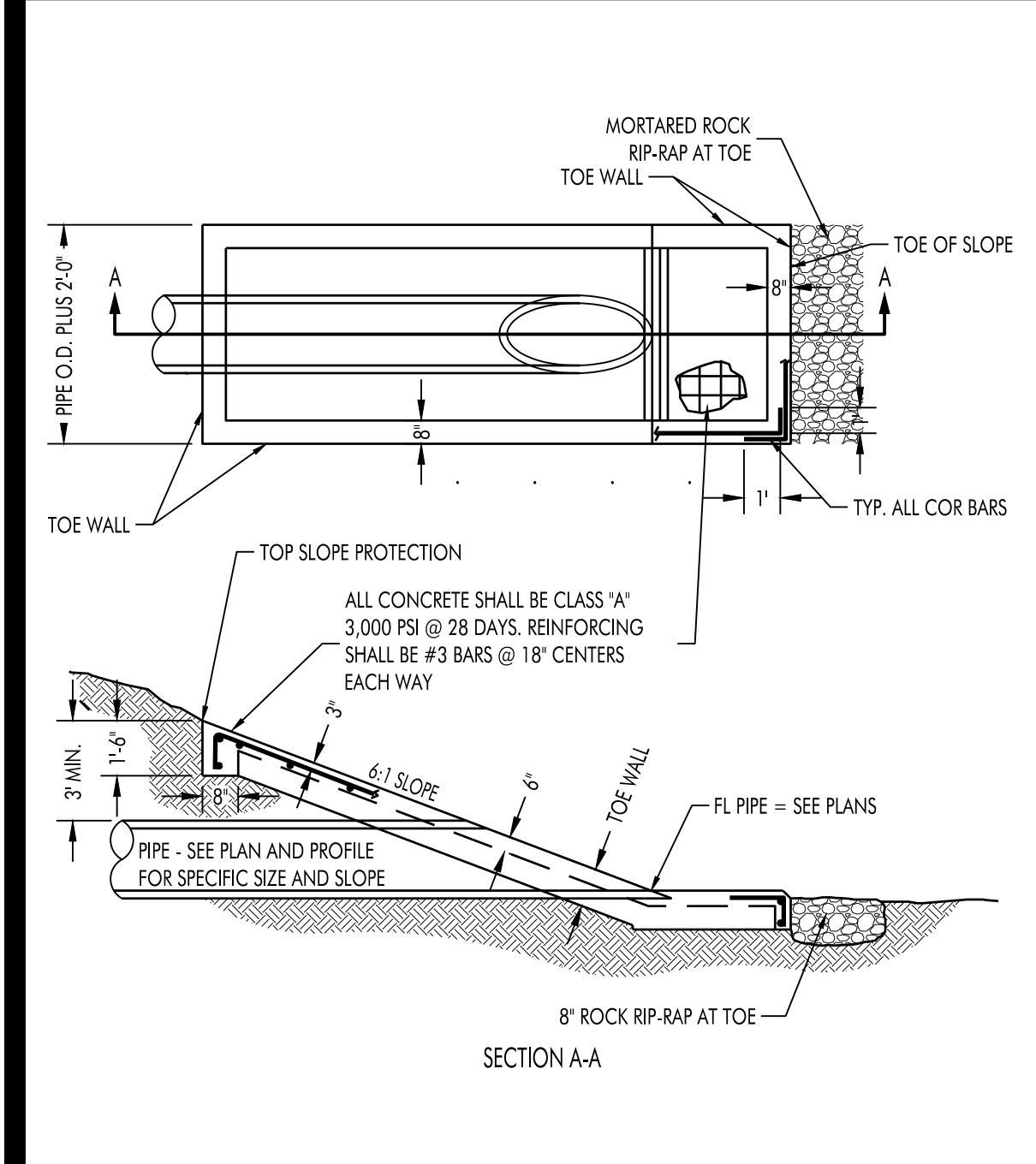
01 EROSION CONTROL LOG NTS

02 CONCRETE WASHOUT DETAIL NTS

03 GRATE INLET PROTECTION NTS

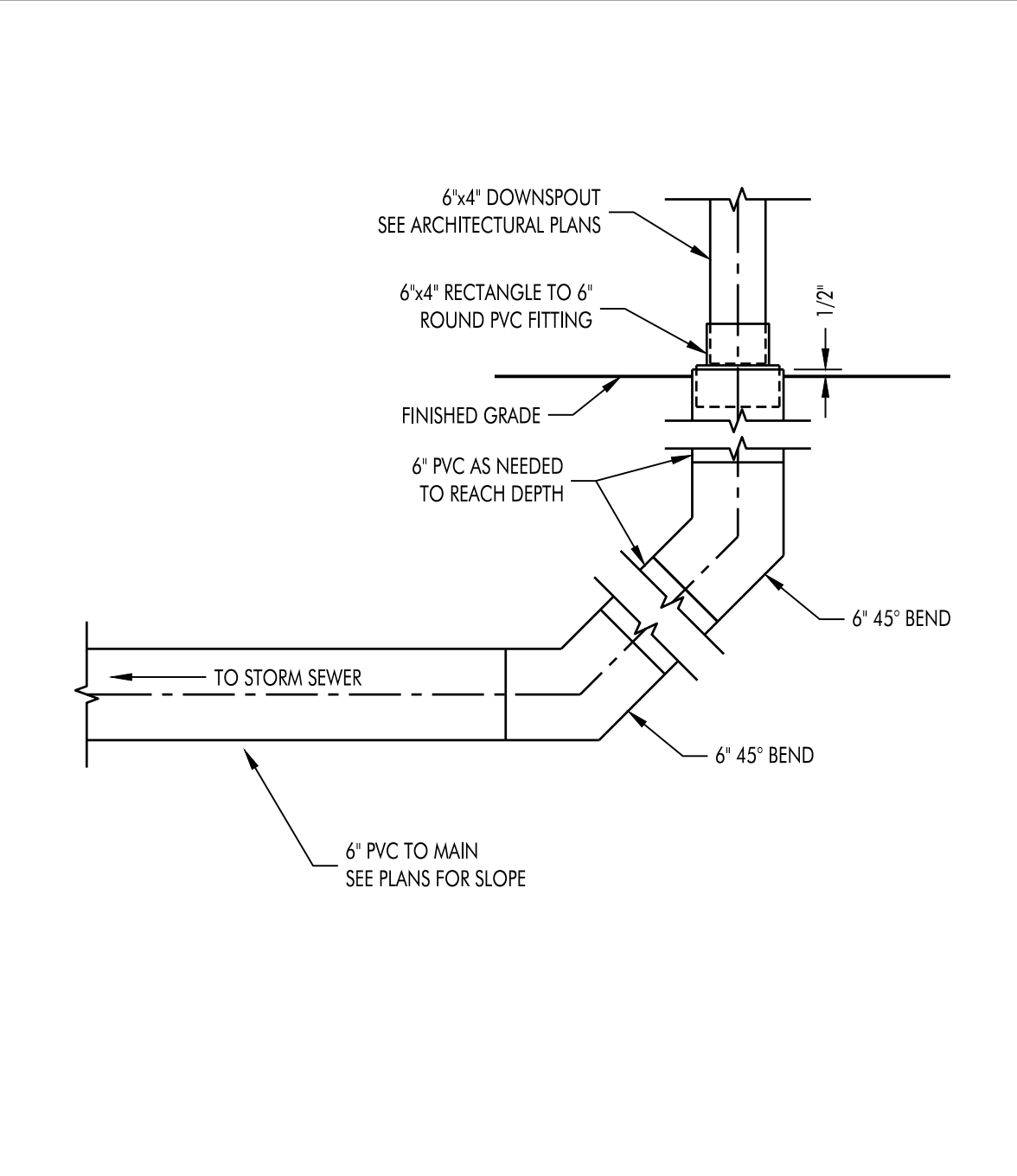
04 CURB RAMP - PERPENDICULAR TO CURB NTS

05 CONCRETE FLUME SECTIONS NTS

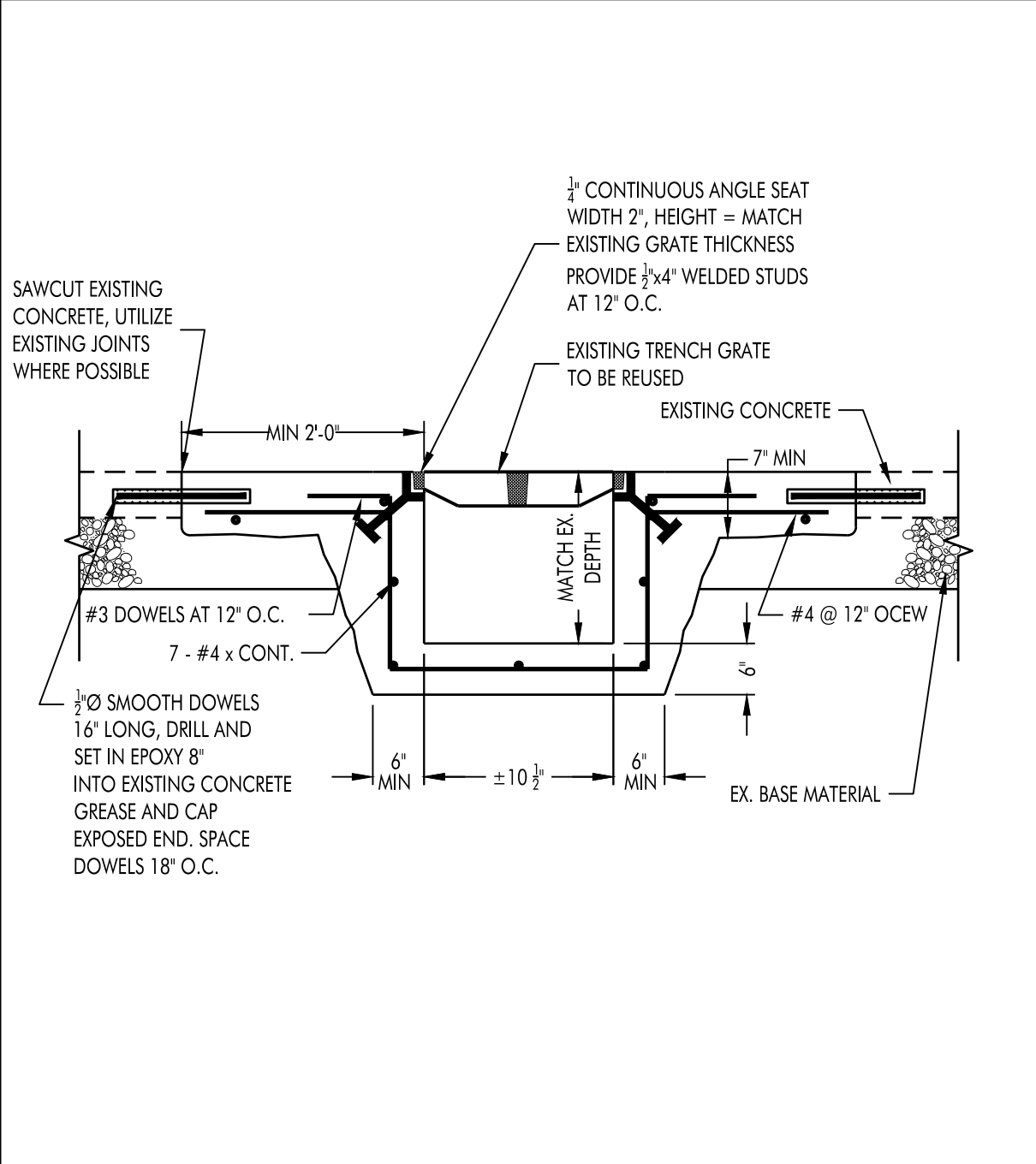


06 SLOPING ENDWALL NTS

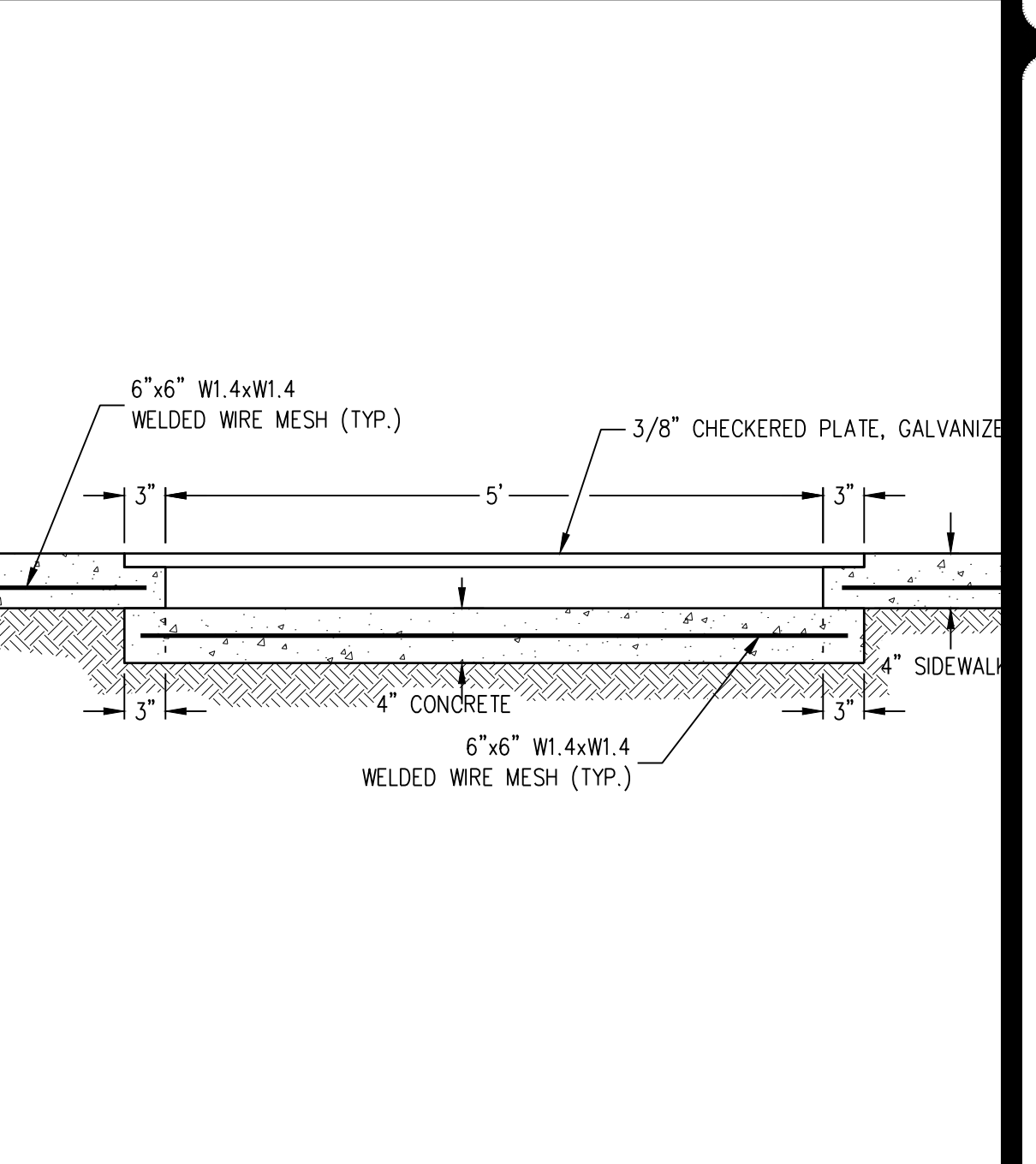
07 GRATE INLET DETAIL NTS



08 DOWNSPOUT CONNECTION TO 6\"/>



09 TRENCH DRAIN DETAIL NTS



10 SIDEWALK DRAINPLATE DETAIL NTS

HAGOOD ENGINEERING ASSOCIATES

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**SITE DEVELOPMENT PLANS FOR
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 204 E LITTLE ELM TRAIL
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NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO. 22-032
 ISSUED DATE: 6-2-2023

DETAILS

SHEET NO.
C70 - R4
 59A
 SITE PLAN NO.

