WATER POLLUTION ABATEMENT PLAN APPLICATION

FOR

WILLIAMSON COUNTY SOUTHWEST REGIONAL PARK

115 BORHO DRIVE

LEANDER, TEXAS 78641

WILLIAMSON COUNTY

SUBMITTED TO:

TCEQ AUSTIN REGIONAL OFFICE

ON

OCTOBER 24, 2025

Prepared by:

TBPE Firm No. 312

HALFF ASSOCIATES, INC.

13620 Briarwick Drive, Suite 100

Austin, Texas 78729

Water Pollution Abatement Plan/Organized Sewage Collection System

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Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

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

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

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

Technical Review

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

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

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

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.

4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Southwest Regional Park Field and Track Upgrades						**2. Regulated Entity No.:** 105777668			
3. Customer Name: Williamson County						**4. Customer No.:** 60089788			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**		286.317 Acres	
9. Application Fee:	$10,000		**10. Permanent BMP(s):**			Grassy Swale and Turf Field			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A			
13. County:	Williamson		**14. Watershed:**			Turkey Creek – Brushy 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.

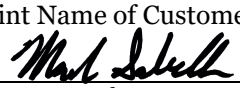
Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	__X__
Region (1 req.)	___	___	__X__
County(ies)	___	___	__X__
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards 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 ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville **X**__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.

Mark Sabella - Halff

Print Name of Customer/Authorized Agent



10/24/2025

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):	

Section I

General Information Form (TCEQ-0587)

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: Mark Sabella, PE

Date: **10/24/2025**

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Southwest Regional Park
2. County: Williamson
3. Stream Basin: San Gabriel River
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: TW Dieckmann, Parks Director
   Entity: Southwest Regional Park in Williamson County
   Mailing Address: 219 Perry Mayfield
   City, State: Leander, TX Zip: 78641
   Telephone: (512) 943-1922 FAX: _____
   Email Address: tw.dieckmann@wilcotx.gov

8. Agent/Representative (If any):

   Contact Person: Mark Sabella
   Entity: Halff
   Mailing Address: 13620 Briarwick Drive, Building C, Suite 100
   City, State: Austin, TX Zip: 78729
   Telephone: (512) 777-4583 FAX: _____
   Email Address: MSabella@halff.com

9. Project Location:

   ☐ The project site is located inside the city limits of _____.
   ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Round Rock.
   ☐ 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.

    From TCEQ Headquarters in Austin, get on I-35 N from N I-35 Frountage Rd. and continue about 12.5 miles to Exit 256. Stay on frontage for about 0.8 miles and turn left on RM 1431. Continue about 4.2 miles and turn right onto CR 175. Continue about 1.3 miles and turn right onto Perry Mayfield Blvd. Continue through round about on Perry Mayfield Blvd and then take your first right. The site will be on your left.

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

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

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

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

☐ Survey staking will be completed by this date: _____

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

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

15. Existing project site conditions are noted below:

☐ Existing commercial site
☐ Existing industrial site
☐ Existing residential site
☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☐ Undeveloped (Undisturbed/Uncleared)
☒ Other: Developed sports park with paved drives

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.

Attachment 1A – Road Map



N.T.S

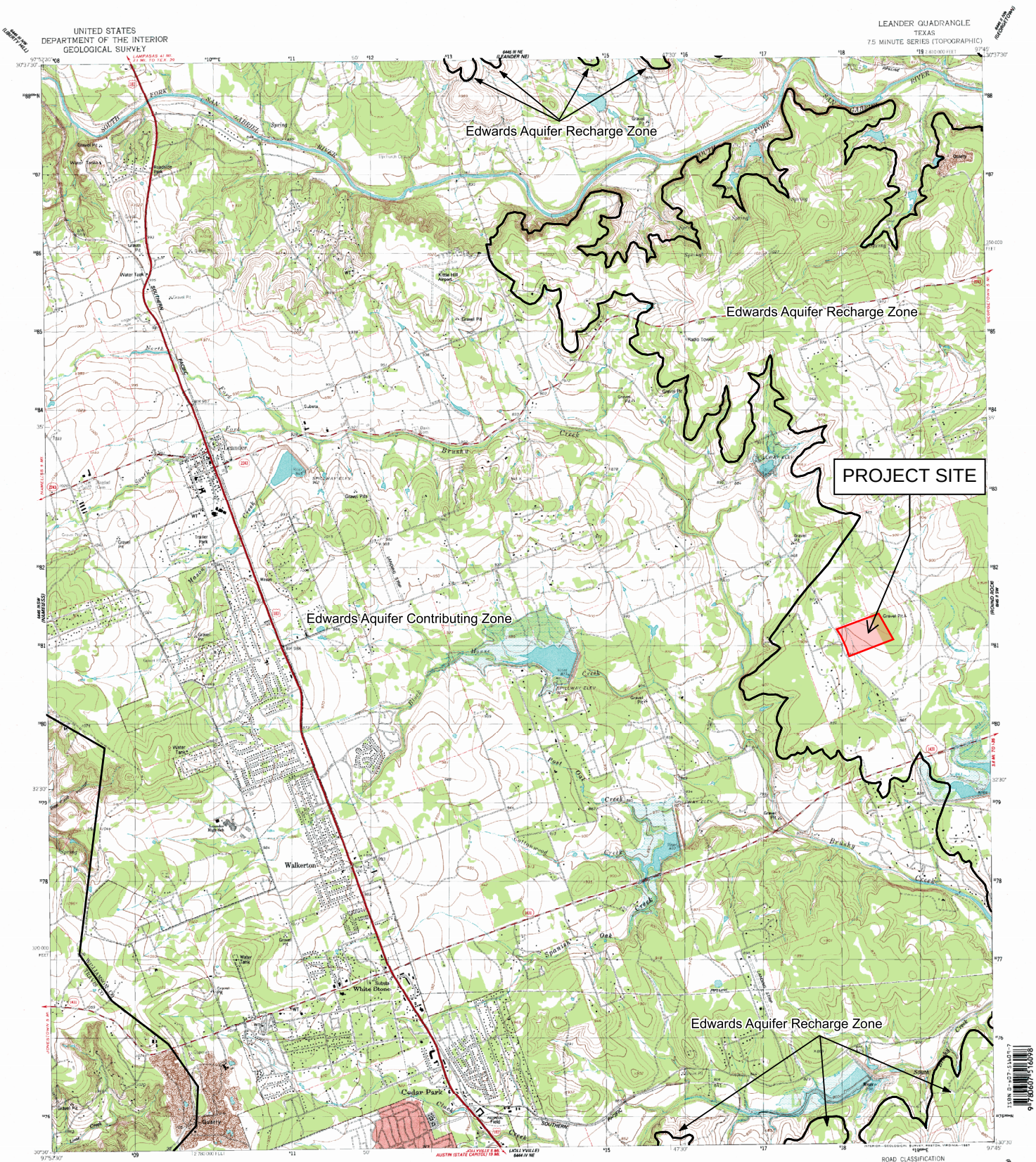
Southwest Regional Park

115 Borho Drive
Leander, Texas 78628
AVO #60316.001

Directions from TCEQ Austin Regional Office

- Get on I-35 N from N I-35 Frontage Rd. and continue to Exit 256 (±12.5 Miles)
- Turn left on RM 1431 (0.8 miles)
- Turn right onto CR 175 (4.2 Miles)
- Turn right onto Perry Mayfield Blvd (1.3 Miles)
- Continue through round about on Perry Mayfield Blvd and then take your first right.
- Site is on the left

Attachment 1B – USGS Quadrangle Map



Texas Commission on Environmental Quality
Edwards Aquifer Protection Program

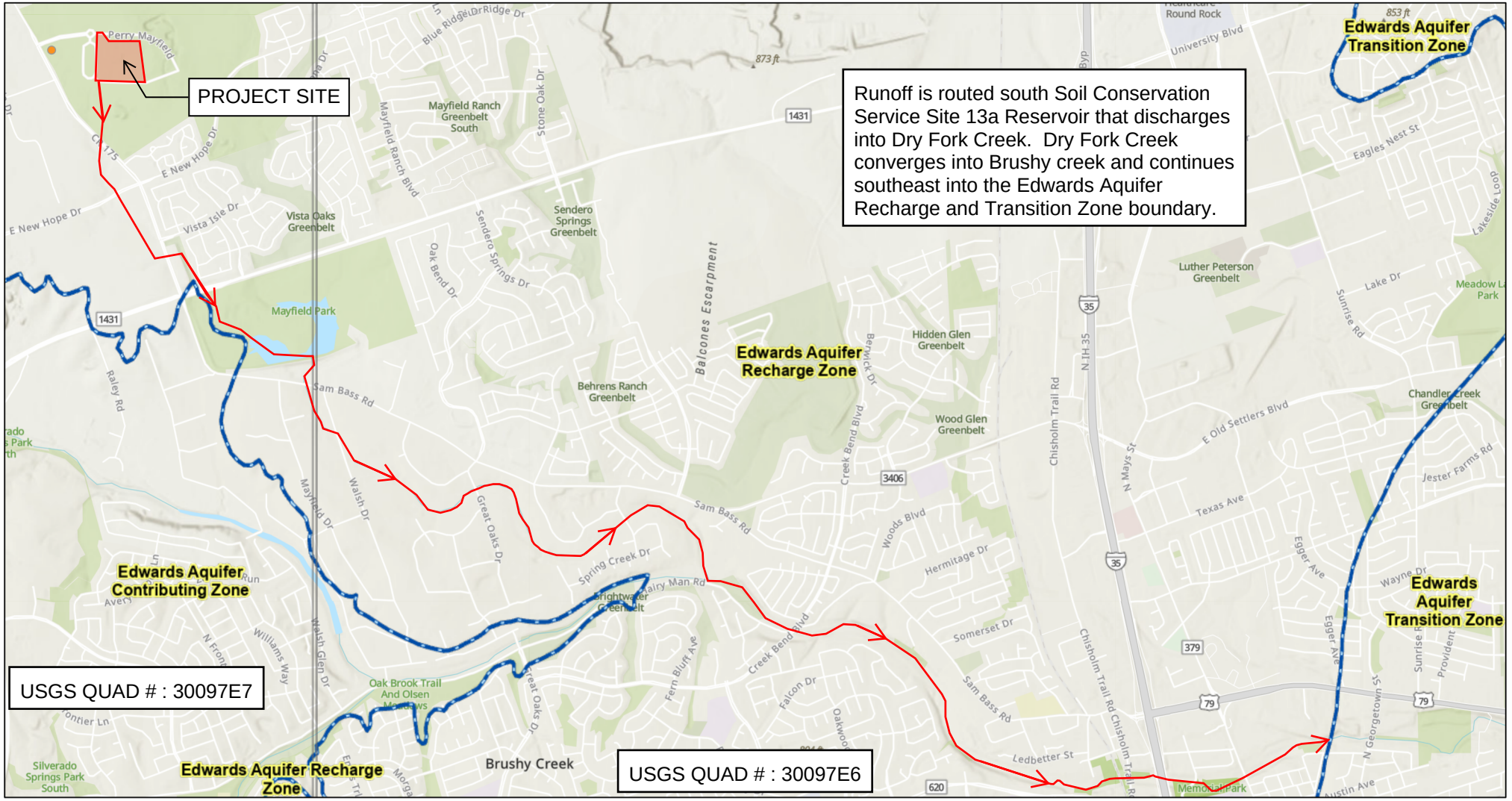
TCEQ

Regulatory Zones

30 TAC Chapter 213- Edwards Aquifer
Effective May 1985

This map was produced by the Groundwater Planning and Assessment Team of the Texas Commission on Environmental Quality to detail the boundaries of the regulatory zones of the Edwards Aquifer Protection Program, as described in Texas Administrative Code Title 30, Part 1, §213.3. No other claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information about the Edwards Aquifer Protection Program, please contact the TCEQ Regional Offices in San Antonio or Austin. Printed June 2006.

Southwest Regional Park



8/26/2025, 10:45:58 AM

1:31,300

0 0.33 0.65 1.3 mi

0 0.5 1 2 km

- ArcGIS World Geocoding Service
- TCEQ_EDWARDS_OFFICIAL_MAPS
- 7.5 Minute Quad Grid
- TX Counties
- Edwards Aquifer Boundary central line
- Edwards Aquifer Boundary
- Edwards Aquifer Label
- World_Hillshade

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, TCEQ

Attachment 1C – Project Description

The 28.37-acre Southwest Regional Park site is located north of Ranch to Market 1431, approximately 0.30 miles east of the intersection of County Road 175 and Perry Mayfield Blvd, on the south side of Perry Mayfield Blvd. The project will include the renovation of the existing track and field and three soccer fields along with site improvements to the site's drainage, sidewalks and water quality BMPs. The table below includes the site's impervious cover areas.

Impervious Cover Totals		
Existing Conditions	409,499 SF	9.40 AC.
Proposed Conditions	792,448 SF	18.19 AC.

The existing site is developed a sports complex that includes grass fields, a track, pickleball and tennis courts with associated drives, sidewalks, parking and utilities. The developed site generally slopes south and where runoff is captured in small channels and routed to culverts at the existing drive south of the site. The project is in the City of Round Rock ETJ and located over the Edwards Aquifer Recharge Zone. Development of this project is designed in accordance with the City of Round Rock Design and Construction Standards (DACS) and TCEQ RG-348 Technical Guidance Manual.

Temporary water quality controls will be provided during construction of the site improvements and will consist of silt fence, rock riprap, tree protection, concrete truck washout pits, and stabilized construction entrances.

The existing impervious cover totals were calculated using a combination of survey and aerial imagery. The proposed impervious cover totals were calculated by subtracting out the existing impervious cover to be demolished and adding the proposed impervious cover for the planned development. The increase in impervious cover is approximately 382,999 square feet (SF). Approximately 6,835 square feet of concrete sidewalks are to be demolished in preparation for the site's proposed development.

The proposed site will continue to be used as a regional park and owned by Williamson County. This proposed development includes minor modifications to the site layout and improvements to the site's drainage and grass fields. Minor grading will refine the onsite drainage, and the grass fields will be replaced with turf.

Permanent water quality controls will be provided for this site by artificial turf fields with gravel and perforated pipe underdrain system and a vegetated grassy swale. The artificial turf fields have a total area of approximately 371,571 SF and will treat area for the turf fields only. The remaining 11,428 SF of impervious cover will be treated within a grassy swale that flows south and east along Borho Drive.

The grassy swale was designed in accordance with Section 3.4.5 of the TCEQ RG-348 Technical Guidance Manual. The grassy swale will account for 70% TSS removal efficiency. Discussion with TCEQ provided information stating that artificial turf fields with gravel and perforated underdrain system that would be considered as providing equivalent water quality protection. These systems do not have a TSS removal efficiency associated. They essentially are a one-for-one trade and will treat the turf field only. Plan and sections of the proposed systems are with the plan set.

Section II

Geologic Assessment Form (TCEQ-0585)

Geologic Assessment for the Southwest Regional Park Project, Williamson County, Texas

JULY 2025

PREPARED FOR

Halff Associates, Inc.

PREPARED BY

SWCA Environmental Consultants

GEOLOGIC ASSESSMENT FOR THE SOUTHWEST REGIONAL PARK PROJECT, WILLIAMSON COUNTY, TEXAS

Prepared for

Halff Associates Inc.
13620 Briarwick Drive
Austin, Texas 78729

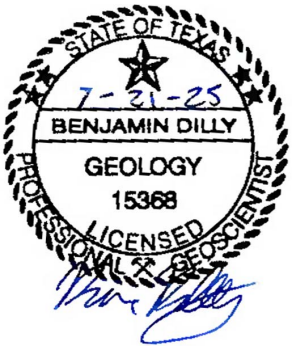
Prepared by

SWCA Environmental Consultants
4949 North Loop 1604 West, Suite 235
San Antonio, Texas, 78249
www.swca.com

Texas Board of Professional Geoscientists, Firm Registration No. 50159

SWCA Project No. 99379

July 2025



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1 INTRODUCTION

This narrative Geologic Assessment accompanies Texas Commission on Environmental Quality (TCEQ) Geologic Assessment Form TCEQ-0585 completed for the proposed Southwest Regional Park Project (project site). The project consists of an approximate 21-acre turf replacement project at the Southwest Regional Park in southwestern Williamson County. (Figure 1). The project site consists of land developed for athletic fields.

2 METHODOLOGY

SWCA Environmental Consultants (SWCA) scientists studied records pertaining to all reputed caves in the project site and gathered information related to documented caves in the project vicinity prior to conducting field work. Relevant information sources include the following:

- Internal SWCA data;
- Unpublished data related to SWCA et al. (2008);
- ESRI® ArcGIS® Online Basemap Map Services;
- U.S. Geological Survey (USGS) (2022) 7.5-minute topographic digital raster graphics;
- Geologic maps (Barnes 1974; Collins 1998); and
- Mapped fault lines (Collins 1998).

A Texas Licensed Professional Geoscientist (PG) conducted field surveys on June 30, 2025. The pedestrian surveys were completed by walking parallel transects spaced approximately 30 to 50 feet apart, as directed by the TCEQ in the Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (Rev. 10-01-04). Closer spacing was used where vegetation inhibited clear observation. SWCA scientists carefully examined all observed potential karst features, including depressions, holes, and animal burrows, for subsurface extent evidence. SWCA used several techniques for this effort, including probing with a digging implement to determine the thickness and consistency of fill material and feeling for air flow which may indicate the presence of a subsurface void space. Other techniques included recording notable features and site characteristics such as vegetation types or semi-circular burrow mounds produced by small mammal activity.

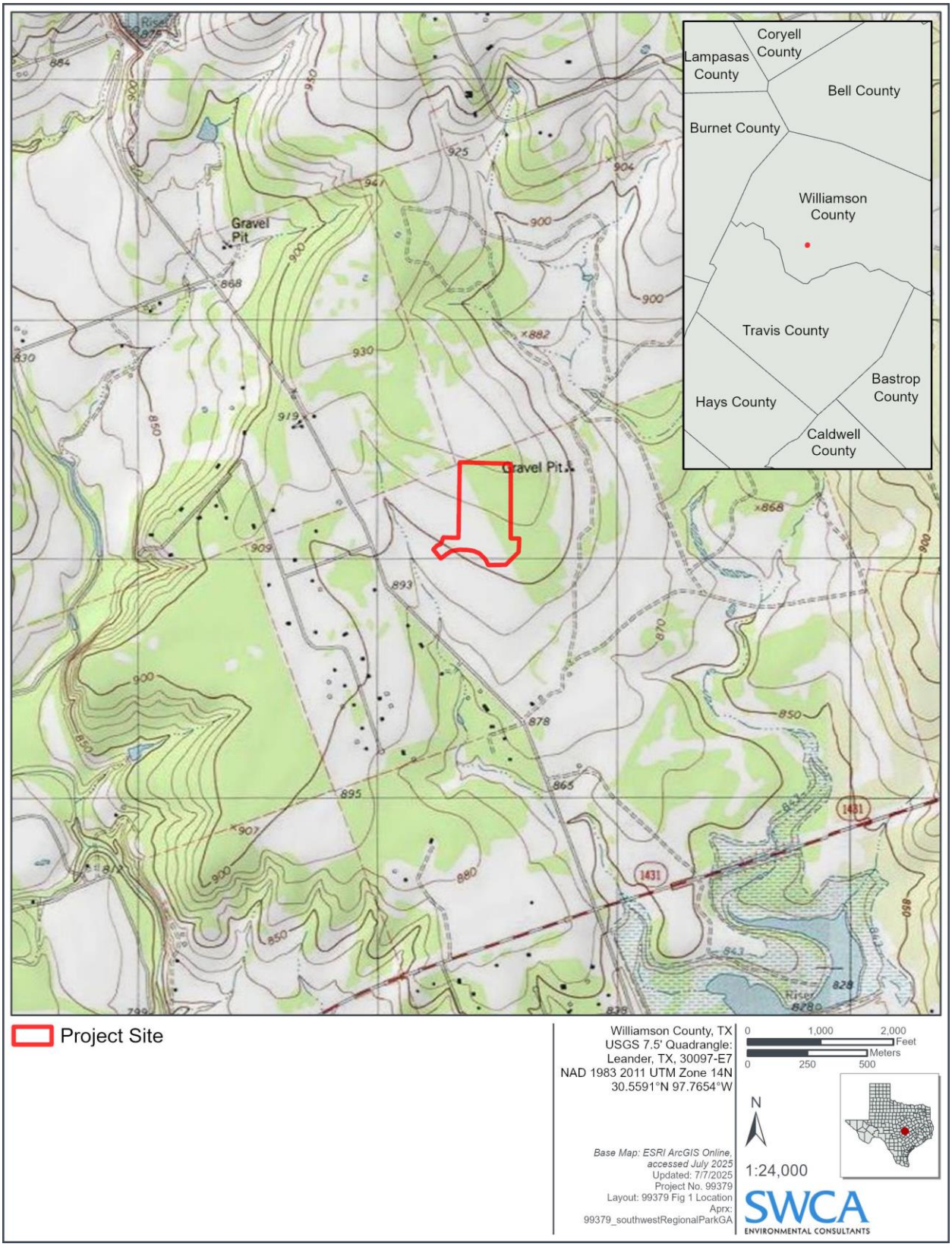


Figure 1. Project site location map.

3 RESULTS

3.1 Project Site Overview

The project site is wholly within the Edwards Aquifer Recharge Zone (EARZ) of the northern segment of the Edwards Aquifer (TCEQ 2025). The USGS National Hydrography Dataset indicates that the project site is located within the Brushy Creek watershed of the Brazos River Basin. Surface water runoff within the project site drains indirectly to Brushy Creek approximately 1.4 miles south of the project site. The elevation of the project site ranges from approximately 890 feet above mean sea level (amsl) to 920 feet amsl near the northeastern portion of the project site.

The project limits are primarily existing athletic fields with associated parking, driveway, and drainage channels located at the Williamson County Southwest Regional Park in Williamson County, Texas (see Figure 1).

3.2 Soils

The Natural Resources Conservation Service (2025) identified four soil units within the project site (Figure 2). Table 1 provides additional details for these soil units.

Table 1. Soil Units within the Project Site

Soil Unit	Hydric	Hydrologic Soil Group*	Drainage Class	Frequency of Flooding/ Ponding	Depth to Water Table (inches)
CfA: Crawford clay, 0 to 1 percent slopes	No	D	Well Drained	None / None	80+ inches
EeB: Eckrant stony clay, 0 to 3 percent slopes, stony	No	D	Well Drained	None / None	80+ inches
GeB: Georgetown stony clay loam, 0 to 2 percent slopes	No	D	Well Drained	None / None	80+ inches
GsB: Georgetown stony clay loam, 1 to 3 percent slopes	No	D	Well Drained	None / None	80+ inches

Source: Natural Resources Conservation Service (2025)

* Group D – Soils had very slow infiltration rates when thoroughly wetted and exhibit the highest potential for runoff.



Figure 2. Soils map.

3.3 Geology

The project site is along the Balcones Fault Zone (BFZ) within the Edwards Aquifer Contributing and Recharge Zones (TCEQ 2025). Structural down-warping occurred with the Gulf of Mexico's ancestral formation during the middle Tertiary and the BFZ formed along a zone of weakness, which currently marks the boundary between the Edwards Plateau and the Gulf Coastal Plain in Central Texas. The BFZ is characterized by a series of northeast-trending, predominantly normal, nearly vertical en echelon faults.

There are no mapped faults within the project site (Collins 1998). The regional trend of the mapped faults within the area is approximately 20 degrees; therefore, any features within 15 degrees (5–35 degrees) would be awarded an additional 10 points on the geologic assessment table presented in Appendix A, Attachment A.

Collins (1998) indicates the project site is underlain by Cretaceous-aged Edwards Limestone (Ked) (Appendix A: Attachment D). SWCA finds Collins (1998) interpretation of the geology to be generally accurate. The Stratigraphic Column is included in Appendix A, Attachment B.

Edwards Limestone is described by Collins (1998) as:

> …limestone, dolomitic limestone, and marl, massive to thin beds, chert, and fossiliferous; fossils include *rudists*. Shallow subtidal-flat cycles. Honeycomb textures, voids in collapse breccias, and cavern systems. Accounts for most of the Edwards aquifer strata. Thickness is between 100 and 300 ft; thins northward.

Recharge into the Edwards Aquifer primarily occurs in areas where the Edwards Group and Georgetown Formation are exposed at the surface. A significant amount of recharge is from direct infiltration via precipitation and streamflow loss. Rapid recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features are commonly formed along joints, fractures, and within bedding plane surfaces in the Edwards Group and Georgetown Formation. In the vicinity and downgradient of the project site, water often discharges from the Edwards Aquifer through seeps and springs at or near the contact between the Edwards Limestone and underlying Comanche Peak Formation.

3.4 Hydrogeologic Assessment

The overall potential for fluid migration to the Edwards Aquifer within the project site appears low compared to background infiltration rates due to the presence of no sensitive features. SWCA did not observe any water wells within the project site; however, the depth to water in the vicinity of the project site has been measured at depths between 381 and 440 feet below-ground-surface (BGS) in nearby Trinity Aquifer monitoring wells (State ID Nos. 517463, 373385, and 653917) (TWDB 2025). Springs are mapped to south of the subject site, indicating that the depth to water within the Edwards limestone is shallow. Turf replacement activities are not expected to impact groundwater.

The USGS National Hydrography Dataset indicates that the project site is located within the Brushy Creek watershed of the Brazos River Basin. Surface water runoff within the project site drains indirectly to Brushy Creek approximately 1.4 miles south of the project site.

The following three features were identified within the project site:

- RP-BD-01—This feature is a man-made feature in bedrock mapped within Edwards Limestone. This feature is a storm sewer within the football field. The storm sewer lies beneath grassy areas,

and no evidence of enhanced permeability or recharge were observed; therefore, the probability of rapid infiltration is low.

- RP-BD-02—This feature is a man-made feature in bedrock mapped within Edwards Limestone. This feature is a sanitary sewer collection line within a drainage. The sanitary sewer lies beneath grassy areas, and no evidence of enhanced permeability or recharge were observed; therefore, the probability of rapid infiltration is low.
- RP-BD-03—This feature is a man-made feature in bedrock mapped within Edwards Limestone. This feature is a sanitary sewer collection line within in a field. The sanitary sewer lies beneath grassy areas, and no evidence of enhanced permeability or recharge were observed; therefore, the probability of rapid infiltration is low.

4 LITERATURE CITED

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APPENDIX A

Texas Commission on Environmental Quality Forms

Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: Ben Dilly, P.G. Telephone: 210-877-2847

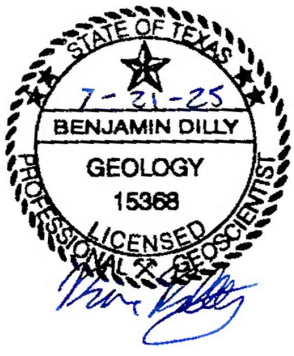
Date: 7/21/2025 Fax: 210-877-2848

Representing: SWCA Environmental Consultants; TBPG Firm Registration No. 50159 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: Southwest Regional Park Project



Project Information

1. Date(s) Geologic Assessment was performed: June 30, 2025
2. Type of Project:
   - ☒ WPAP
   - ☐ SCS
   - ☐ AST
   - ☐ UST
3. Location of Project:
   - ☒ Recharge Zone
   - ☐ Transition Zone
   - ☐ Contributing Zone within the Transition Zone

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

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Please refer to Table 1 in the GA report		

** Soil Group Definitions (Abbreviated)*

A. Soils having a high infiltration rate when thoroughly wetted.
B. Soils having a moderate infiltration rate when thoroughly wetted.
C. Soils having a slow infiltration rate when thoroughly wetted.
D. Soils having a very slow infiltration rate when thoroughly wetted.

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

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

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

   Applicant's Site Plan Scale: 1" = 100'
   Site Geologic Map Scale: 1" = 100'
   Site Soils Map Scale (if more than 1 soil type): 1" = 833'

9. Method of collecting positional data:

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

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

11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

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

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

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

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

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

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

Administrative Information

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

ATTACHMENT A

Geologic Assessment Table

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: Southwest Regional Park Project

LOCATION			FEATURE CHARACTERISTICS												EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DOM	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY
						X	Y	Z		10						<40	≥40	<1.6	≥1.6	
RP-BD-01	30.55937°	97.76555	MB	30	Ked	-	-	-	-	0			F	5	35	X			X	Hillside
RP-BD-02	30.55776	97.76689°	MB	30	Ked	-	-	-	-	0			F	5	35	X		X		Drainage
RP-BD-03	30.55755	97.76438°	MB	30	Ked	-	-	-	-	0			F	5	35	X		X		Hillside

* DATUM: Geographic Latitude Longitude Decimal Degrees NAD83

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.
My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Ben Dilly

Date:
7/21/2025

Sheet 1 of 1

STATE OF TEXAS
7-21-25
BENJAMIN DILLY
GEOLOGY
15368
LICENSED
PROFESSIONAL GEOSCIENTIST

TCEQ-0585-Table (Rev. 10-01-04)

ATTACHMENT B

Stratigraphic Column

Stratigraphic Column

Upper Cretaceous	Upper Confining Units	Navarro and Taylor Groups, undivided; 600 feet thick
		Austin Group; 325–420 feet thick
		Eagle Ford Group; 25–65 feet thick
		Buda Limestone; 40–50 feet thick
		Del Rio Clay; 40–70 feet thick
Lower Cretaceous	Edwards Aquifer	Georgetown Formation; 30–80 feet thick
		Edwards Limestone; Up to 200 feet thick
		Comanche Peak Formation; 80 feet thick
	Lower Confining Units	Walnut Formation; Up to 120 feet thick
		Upper member of Glen Rose Limestone; 500 feet thick

Note: The shaded area represents the mapped lithology that outcrops in the project site.

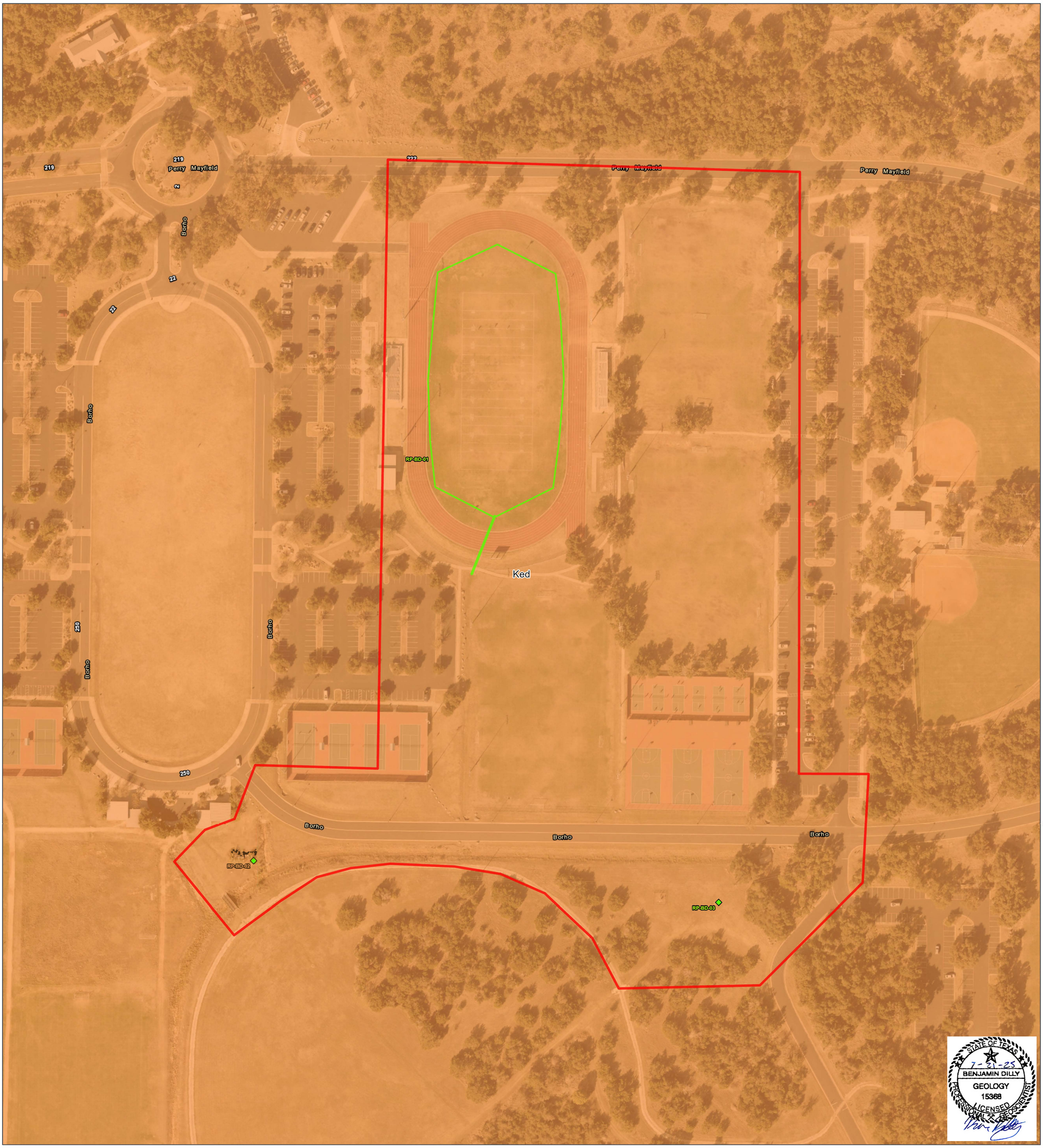
ATTACHMENT C

Narrative Description of Site Geology

REFER TO SECTION 3.3 OF THIS REPORT FOR GEOLOGIC NARRATIVE DESCRIPTION

ATTACHMENT D

Site Geologic Map



Project Site
Feature
Feature
Geologic Unit Type
Ked - Edwards Limestone

Williamson County, TX
USGS 7.5' Quadrangle:
Leander, TX, 30097-E7
NAD 1983 2011 UTM Zone 14N
30.5591°N 97.7654°W

Base Map: ESRI ArcGIS Online, accessed July 2025
Updated: 7/7/2025
Project No. 99379
Layout: 99379 Fig 3 Geology Aprx: 99379_southwestRegionalParkGA

0 140 280 Feet
0 30 60 Meters

N

1:1,200

SWCA
ENVIRONMENTAL CONSULTANTS

APPENDIX B

Photographic Log



Photograph 1. Feature RP-BD-01.



Photograph 2. Feature RP-BD-02.



Photograph 3. Feature RP-BD-03.



Photograph 4. Site overview photograph.



Photograph 5. Site overview photograph.

Section III

Water Pollution Abatement Plan Application Form (TCEQ-0584)

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(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 **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Mark Sabella, P.E.

Date:**10/24/2025**

Signature of Customer/Agent:



Regulated Entity Name: Southwest Regional Park

Regulated Entity Information

1. The type of project is:

   ☐ Residential: Number of Lots:_____
   ☐ Residential: Number of Living Unit Equivalents:_____
   ☐ Commercial
   ☐ Industrial
   ☒ Other:Parkland

2. Total site acreage (size of property):286.317

3. Estimated projected population:N/A

4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	-	÷ 43,560 =	-
Parking	409227	÷ 43,560 =	9.39
Other paved surfaces	371563	÷ 43,560 =	8.53
Total Impervious Cover	780790	÷ 43,560 =	17.92

Total Impervious Cover 17.92 **÷ Total Acreage** 28.37 **X 100 =** 63**% Impervious Cover**

5. ☒ **Attachment A - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.

6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

Complete questions 7 - 12 if this application is exclusively for a road project.

7. Type of project:

   ☐ TXDOT road project.
   ☐ County road or roads built to county specifications.
   ☐ City thoroughfare or roads to be dedicated to a municipality.
   ☐ Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

   ☐ Concrete
   ☐ Asphaltic concrete pavement
   ☐ Other: _____

9. Length of Right of Way (R.O.W.): _____ feet.

   Width of R.O.W.: _____ feet.
   L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

10. Length of pavement area: _____ feet.

    Width of pavement area: _____ feet.
    L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.
    Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = _____% impervious cover.

11. ☐ A rest stop will be included in this project.

    ☐ A rest stop will not be included in this project.

12. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

13. ☒ **Attachment B - Volume and Character of Stormwater**. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

14. The character and volume of wastewater is shown below:

_____% Domestic	_____Gallons/day
_____% Industrial	_____Gallons/day
_____% Commingled	_____Gallons/day
TOTAL gallons/day _____	

15. Wastewater will be disposed of by:

☐ On-Site Sewage Facility (OSSF/Septic Tank):

- ☐ **Attachment C - Suitability Letter from Authorized Agent**. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.
- ☐ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☐ Sewage Collection System (Sewer Lines):

- ☐ Private service laterals from the wastewater generating facilities will be connected to an existing SCS.
- ☐ Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

- ☐ The SCS was previously submitted on_____.
- ☐ The SCS was submitted with this application.
- ☐ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

☐ The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.
☐ Proposed.

16. ☐ All private service laterals will be inspected as required in 30 TAC §213.5.

Site Plan Requirements

Items 17 – 28 must be included on the Site Plan.

17. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 100'.

18. 100-year floodplain boundaries:

☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
☒ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): _____

19. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.
☐ The wells are not in use and will be properly abandoned.
☐ The wells are in use and comply with 16 TAC §76.

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

21. Geologic or manmade features which are on the site:

☒ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
☐ No sensitive geologic or manmade features were identified in the Geologic Assessment.
☐ **Attachment D - Exception to the Required Geologic Assessment**. A request and justification for an exception to a portion of the Geologic Assessment is attached.

22. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

23. ☒ Areas of soil disturbance and areas which will not be disturbed.

24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

25. ☒ Locations where soil stabilization practices are expected to occur.

26. ☐ Surface waters (including wetlands).

    ☒ N/A

27. ☐ Locations where stormwater discharges to surface water or sensitive features are to occur.

    ☒ There will be no discharges to surface water or sensitive features.

28. ☒ Legal boundaries of the site are shown.

Administrative Information

29. ☒ 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.

30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

Attachment 3A – Factors Affecting Water Quality

The factors affecting water quality as a result of proposed site improvement areas are as follows:

The site's proposed development will include minor modifications to the site layout and improvements to the site's drainage and grass fields. Minor grading will refine the onsite drainage to include grassy swales, and four grass fields will be replaced with artificial turf. The increase in impervious cover is approximately 382,000 square feet. The increased impervious cover will cause an increase in Total Suspended Solids (TSS) from rainfall events which is typical of an increase in impervious cover. Factors contributing to the contamination of the surface and groundwater are generated from man-made pollutants such as pesticides, fertilizers, loose trash and debris, and automotive fluids.

Attachment 3B - Volume and Character of Stormwater

The volume and character of stormwater at the project site for both existing and post-development conditions are as follows:

The existing site is approximately 28.4 acres of developed sports park that includes a track with an internal grass field, grass soccer fields, basketball courts, pickle ball courts, and tennis courts with associated parking, sidewalks, and bleachers. The site generally drains south towards Borho Drive where the water is captured by two existing culverts where it is piped under the drive and flows west in a ditch along Borho Drive. The projects Study Point for drainage analysis is at the southwest corner of the site, south of Borho Drive. The quality of runoff from the developed site can be characterized as mostly clean water due to the TSS removal through the turf fields and improvements to the existing on-site drainage and grassy swale.

The existing runoff analysis was created by delineating two drainage areas. The table below provides calculations related to each drainage area for existing conditions. Time of concentrations (Tc) were derived using the TR-55 method. Composite runoff curve numbers (CN) were computed using the area weighted formula. Stormwater runoff rates were computed using the Soil Conservation Services (SCS) unit hydrograph within HEC-HMS. The SCS 24-hour storm was utilized using precipitation values from NOAA Atlas 14 with HEC-HMS frequency storm.

EXISTING DRAINAGE AREA MAP SUMMARY								
ID	**AREA**	**CN**	**IC (%)**	**TC**	**Q25**	**Q50**	**Q100**	**NOTES**
[-]	**[AC]**	**[-]**	**[-]**	**[MIN]**	**[CFS]**	**[CFS]**	**[CFS]**	**[-]**
DA_1	14.59	86	31.2%	18.66	85.2	98.7	112.5	DRAINS TO STUDY POINT 1
DA_2	13.84	86	35.1%	9.15	97.6	112.9	128.4	DRAINS TO STUDY POINT 1
EX-SP-1	**-**	**-**	**-**	**-**	**179.9**	**208.5**	**237.6**	

The proposed site generally follows existing run-off conditions. The proposed development includes minor modifications to the site and improvements to the site's drainage and grass fields. Minor grading will refine the onsite drainage, and the grass fields will be replaced with turf.

Permanent water quality controls will be provided for this site by artificial turf fields with gravel and perforated pipe underdrain system and a vegetated grassy swale. The artificial turf fields have a total area of approximately 371,570 SF and will treat area for the turf fields only. The remaining 11,430 SF of impervious cover will be treated within a grassy swale that flows south and east along Borho Drive.

The grassy swale was designed in accordance with Section 3.4.5 of the TCEQ RG-348 Technical Guidance Manual. The grassy swale will account for 70% TSS removal efficiency. Discussion with TCEQ provided information stating that artificial turf fields with gravel and perforated underdrain system that would be considered as providing equivalent water quality protection. These systems

do not have a TSS removal efficiency associated. They essentially are a one-for-one trade and will treat the turf field only. Plan and sections of the proposed systems are with the plan set.

The post development runoff analysis was created by delineating the two existing drainage areas into a total of six drainage areas while keeping the overall divide between the two existing areas the same. The table below provides calculations related to each drainage area for post developed conditions. Time of concentrations (Tc) were derived using the TR-55 method and adjusted so that a minimum of five minutes was used. Composite runoff curve numbers (CN) were computed using the area weighted formula. Stormwater runoff rates were computed using the Soil Conservation Services (SCS) unit hydrograph within HEC-HMS. The SCS 24-hour storm was utilized using precipitation values from NOAA Atlas 14 with HEC-HMS frequency storm.

PROPOSED DRAINAGE AREA MAP SUMMARY								
ID	**AREA**	**CN**	**IC (%)**	**Tc**	**Q25**	**Q50**	**Q100**	**NOTES**
[-]	**[AC]**	**[-]**	**[-]**	**[MIN]**	**[CFS]**	**[CFS]**	**[CFS]**	**[-]**
P_1	10.41	86	40.8%	9.92	74.0	85.5	97.1	DRAINS TO STUDY POINT 1
P_2	2.11	86	100.0%	12.92	19.7	22.5	25.3	DRAINS TO STUDY POINT 1
P_3	2.09	86	100.0%	15.23	19.5	22.3	25.0	DRAINS TO STUDY POINT 1
P_4	6.80	86	53.1%	13.68	45.3	52.3	59.4	DRAINS TO STUDY POINT 1
P_5	4.88	86	100.0%	5.00	39.1	44.8	50.6	DRAINS TO STUDY POINT 1
P_6	2.09	86	100.0%	13.27	19.5	22.3	25.0	DRAINS TO STUDY POINT 1
PR-SP-1	**-**	**-**	**-**	**-**	**181.3**	**205.0**	**226.2**	

Attachment 3C – Suitability Letter from Authorized Agent

No onsite sewage facility is proposed; therefore, this attachment has been omitted.

Section not applicable to this project.

Attachment 3D – Exception to the Required Geologic Assessment

A Geologic Assessment has been included with this application; therefore, this attachment has been omitted.

Section not applicable to this project.

Section IV

Temporary Stormwater Section (TCEQ-0602)

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: Mark Sabella, P.E.

Date: **10/24/2025**

Signature of Customer/Agent:

Mark Sabella

Regulated Entity Name: Southwest Regional 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: San Gabriel River

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

7. ☒ **Attachment D – Temporary Best Management Practices and Measures**. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- ☐ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
- ☐ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
- ☐ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
- ☐ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☐ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

   - ☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
   - ☐ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☐ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☐ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

    - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
    - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
    - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
    - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☐ N/A

12. ☐ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☐ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☐ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☐ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☐ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☐ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices**. A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☐ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☐ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☐ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☐ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☐ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

Attachment 4A – Spill Response Actions

No spills of hydrocarbons or hazardous substances are expected. However, in the event such an incidence does occur, the contractor should carefully follow the TCEQ guidelines outlined below:

Cleanup:

(1) Clean up leaks and spills immediately.
(2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
(3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly.

Minor Spills:

(1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
(2) Use absorbent materials on small spills rather than hosing down or burying the spill.
(3) Absorbent materials should be promptly removed and disposed of properly.
(4) Follow the practice below for a minor spill:

- Contain the spread of the spill.
- Recover spilled materials.
- Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills:

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.
Spills should be cleaned up immediately:
(1) Contain spread of the spill.
(2) Notify the project foreman immediately.
(3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
(4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff

Significant/Hazardous Spills:

From any event, the Reportable Quantity (RQ) = for highly toxic materials the RQ>25 gals. For petroleum/hydrocarbon liquids, spills the RQ>250 gallons (on land) or that which creates "a sheen" on water. Only certified Hazmat teams will be responsible for handling the material at the site.

For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site. Additionally in the event of a hazardous material spill, local Williamson County and/or City of Georgetown police, fire and potentially EMS should be contacted in order to initiate the hazardous material response team.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

(3) Notification should first be made by telephone and followed up with a written report of which one copy is to be kept onsite in the report binder and one copy provided to the TCEQ.

(4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at: http://www.tceq.state.tx.us/response/spills.html

Attachment 4B – Potential Sources of Contamination

No particular activity or process during construction of the facility is anticipated to present a significant risk of being a potential source of contamination. However, during regular construction operations, several common and minor risks of contamination are anticipated. Should the unforeseeable mishap occur during construction or regular operation of the facility, the contractor shall follow the guidelines set forth in "Attachment 5A – Spill Response Plan."

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing
- Grading and excavation
- Vehicle Tracking
- Topsoil stripping and stockpiling
- Landscaping

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Area – small fueling, minor equipment maintenance, sanitary facility.
- Materials Storage Area – solvents, adhesives, paving materials, aggregates, trash, etc.
- Construction Activities – paving, concrete pouring
- Concrete washout area

Potential onsite pollutants:

- Fertilizer
- Concrete
- Glue, adhesives
- Gasoline, diesel fuel, hydraulic fluids, antifreeze
- Sanitary toilets

Attachment 4C – Sequence of Major Activities

1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved site plan or subdivision construction plan and in accordance with the stormwater pollution prevention plan (SWPPP) that is required to be posted on the site. Estimated quantities of each are below:

- 1,200 LF of Silt Fence 2,630 of Tree Protection, 137 SF Rock Berm, 720 LF Inlet Protection, 2 Stabilized Rock Construction Entrances, 2 FODS Reusable Construction Entrance Track Out Mats (2 panels per application), 3 Concrete Washout

2. The environmental project manager, and/or site supervisor, and/or designated responsible party, and the general contractor will follow the storm water pollution prevention plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with city inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion and sedimentation control plan. Estimated quantities of each are below:

- 1,200 LF of Silt Fence 2,630 of Tree Protection, 137 SF Rock Berm, 720 LF Inlet Protection, 2 Stabilized Rock Construction Entrances, 2 FODS Reusable Construction Entrance Track Out Mats (2 panels per application), 3 Concrete Washout

3. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the storm water pollution prevention plan (SWPPP) posted on the site. Estimated quantities of each are below:

- 1,200 LF of Silt Fence 2,630 of Tree Protection, 137 SF Rock Berm, 720 LF Inlet Protection, 2 Stabilized Rock Construction Entrances, 2 FODS Reusable Construction Entrance Track Out Mats (2 panels per application), 3 Concrete Washout

4. Begin site clearing/construction (or demolition) activities.

- limits of construction include 12.79 acres

5. Complete construction, including excavation, filling, utilities, and paving, and start revegetation and landscaping of the site.

- limits of construction include 12.79 acres

6. Upon completion of the site construction and revegetation of a project site, the design engineer shall submit an engineer's letter of concurrence to Williamson County indicating that construction, including revegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate city inspector.

- limits of construction include 12.79 acres

7. After construction is complete and all disturbed areas have been revegetated per plan to at least 90 percent established, remove the temporary erosion and sedimentation controls and complete any necessary final revegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation of the water quality controls.

- limits of construction include 12.79 acres

Attachment 4D – Temporary Best Management Practices and Measures

Prior to the commencement of any construction activity whatsoever, the contractor shall install the silt fencing, the stabilized construction entrance, the rock berms, the concrete washout controls, tree protection, and inlet protections per the Erosion and Sedimentation Control Plan. All BMPs shall be installed per TCEQ and local requirements. The proposed temporary BMPs, such as silt fencing, tree protection fencing, and inlet protection, are intended to control increased TSS from construction activities in the following manner:

Additional notes regarding temporary BMPs:

A. Some upgradient flows will bypass the site via proposed culverts and will be treated with the existing onsite BMPs. The upgradient drainage, coming from properties just north of the site, will be treated by two rock berms placed at the downstream ends of the bypass culverts underneath American Elm Drive. See Drainage Area Maps for upgradient flows.

B. The temporary BMPs proposed during construction activities will prevent pollution of surface water by filtering the increased sediment loads and other pollutant sources listed in "Attachment 5B, Potential Sources of Contamination". The primary method of treating sediment-laden stormwater runoff is through silt control fencing and a stabilized construction entrance. The silt control fencing will be placed per plan along the downslope edges of the project area to filter runoff before passing offsite and in strategic locations of drainage. The stabilized construction entrance will assist in removing debris and sediment caught up within construction vehicles tires exiting the site. Rock berm will be used to retain sediment from concentrated flows as they exit stormwater outfall structures, as well as to decrease the velocity of concentrated flows. As a final measure to mitigate stormwater contamination, inlet protection for proposed inlets will be implemented. A concrete washout area will be located on the site to prevent contaminated rinse water from concrete trucks from leaving the site.

C. The control measures in place are silt fences, rock berm, and inlet protection for upgradient storm sewer systems. Stabilized construction exits will supplement the control of off-site tracking of material. After construction is complete, the site will be stabilized by permanent landscaping vegetation throughout the project area.

D. According to the geologic assessment, there are no naturally occurring features identified on this site that need stormwater runoff to be maintained.

Attachment 4E – Request to Temporarily Seal a Feature

No temporary sealing of naturally occurring sensitive features on the site are proposed.

Section not applicable to this project.

Attachment 4F – Structural Practices

The following temporary BMP structural practices will be employed on the site:

A. Silt Fence – used as barrier protection around the downslope perimeter of the project. The fence retains sediment primarily by retarding flow and promoting deposition on the uphill side of the slope. Runoff is filtered as it passes through the geotextile.

B. Inlet Protection – will be provided around all existing and proposed storm sewer inlets during construction. Locations are indicated on the construction plans. These measures will trap and settle out pollutants from the onsite runoff before the runoff enters the storm drain system and exits the site.

C. Stabilized Construction Exits - Anti-tracking pads consisting of stone will be installed at the exit to each phase of construction to prevent the off-site transport of sediment by construction vehicles. The anti-tracking pads will be at least 50 feet long, a minimum width to match the entrance, with transitions at each side, and will consist of a minimum 8-inch-thick layer of crushed stone. The crushed stone will be placed over a layer of geotextile filter fabric to reduce the mitigation of sediment from the underlying soil.

D. Stabilized Construction Track Out Mats – will be used as an alternative for stabilized construction exits in locations where existing ground is to be preserved. Each mat is 12 feet wide and 7 feet long. Track Out Mats shall be installed in accordance with the FODS Reusable Construction Entrance Installation Guide. A minimum of two mats is to be used per application.

E. Rock Berms – Serve as a check dam in areas of concentrated flow. The berm retains sediment by retarding flow in areas where the volumetric flow rate of runoff is too high for silt fence.

F. Concrete Washout Area – Prevent or reduce the discharge of pollutants from concrete waste by designating a specific armored area to perform onsite concrete washouts.

The placement of structural practices in the floodplain has been avoided.

Attachment 4G – Drainage Area Map

A proposed drainage area map for the project area and encompassing basin are provided in the construction documents.

Attachment 4H – Temporary Sediment Pond(s) Plans and Calculations

No temporary sediment ponds are proposed on site.

Section not applicable to this project.

Attachment 4I – Inspection and Maintenance for BMPs

The inspection and maintenance of temporary BMP's will be made according to TCEQ RG-348, Complying with the Edwards Aquifer Rules Technical Guidance on Best Management Practices, July 2005 Revision.

Inspection Personnel:

Inspections shall be conducted by qualified representatives of the contractor acting on behalf of the owner or a designated party if hired separately by the owner. Each operator must delegate authority to the specifically described position or person performing inspections, as provided by 30 TAC 305.128, as an authorized person for signing reports and performing certain activities requested by the director or required by the TPDES general permit. This delegation of authority must be provided to the director of TCEQ in writing and a copy shall be kept along with the signed effective copy of the SWP3.

Inspection Schedule and Procedures - Inspections must comply with the following:

An inspection shall occur weekly and after any rain event.

The authorized party shall inspect all disturbed areas of the site, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site.

Disturbed areas and areas used for storage of materials that are exposed to precipitation or within limits of the 1% annual chance (100 year) floodplain must be inspected for evidence of, or the potential for, pollutants entering the runoff from the site. Erosion and sediment control measures identified in the plan must be observed to ensure that they are operating correctly. Observations can be made during wet or dry weather conditions. Where discharge locations or points are accessible, they must be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. This can be done by inspecting receiving waters to see whether any signs or erosion or sediment are associated with the discharge location. Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

Based on the results of the inspection, the site description and the pollution prevention measures identified in the plan must be revised as soon as possible after an inspection that reveals inadequacies. The inspection and plan review process must provide for timely implementation of any changes to the plan with 7 calendar days following the inspection.

An inspection report that summarizes the scope of the inspection, name(s) and qualifications of personnel conducting the inspection, the dates of the inspection, major observations relating to the implementation of the SWP3. Major observations shall include as a minimum location of discharges of sediment or other pollutants from the site, location of BMPs that need to be maintained, location of BMPs that failed to operate as designed or proved inadequate for a particular location, and locations where BMPs are needed. Actions taken as a result of the inspections must be described within, and retained as a part of, the SWP3. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWP3and the TPDES general permit. The report must be signed by the authorized representative delegated by the operators in accordance with TAC 305.128.

Maintenance and Corrective Actions - Maintenance of erosion control facilities shall consist of the minimum requirements as follows:

A. In ongoing construction areas inspect erosion control improvements to confirm facilities are in place and operable. Where facilities have been temporarily set aside or damaged due to construction activity, place facilities in service before leaving job site.

B. If weather forecast predicts possibility of rain, check entire facilities throughout site to assure facilities are in place and operable. If job site weather conditions indicate high probability of rain, make special inspection of erosion control facilities.

C. After rainfall events review erosion control facilities as soon as site is accessible. Clean rock berms, berm/swales and other structural facilities. Determine where additional facilities or alternative techniques are needed to control sediment leaving site.

D. After portions of site have been seeded, review these areas on regular basis in accordance with project specifications to assure proper watering until grass is established. Reseed areas where grass is not well established.

E. Spills are to be handled as specified by the manufacturer of the product in a timely safe manner by personnel. The site superintendent will be responsible for coordinating spill prevention and cleanup operations.

F. Concrete trucks will discharge extra concrete or wash out drum only at an approved location on site. Residual product shall be properly disposed of.

G. Inspect vehicle entrance and exits for evidence of off-site tracking and correct as needed.

H. Remove sediment from traps/ponds no later than when the design capacity has been reduced by 50%.

I. If sediment escapes the site, the contractor where feasible and where access is available shall collect and remove sedimentation material by appropriate non-damaging methods. Additionally, the contractor shall correct the condition causing discharges.

J. If inspections or other information sources reveal a control has been used incorrectly, or that a control is performing inadequately, the contractor must replace, correct or modify the control as soon as practical after discovery of the deficiency.

Attachment 4J – Schedule of Interim and Permanent Soil Stabilization Practices

The schedule of interim and permanent soil stabilization practices will be according to the following general schedule. The contractor shall keep adequate records at the site detailing the dates of when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

Prior to Disturbance – Install all temporary erosion and sedimentation control features including but not limited to silt fencing, stabilized construction entrances, rock berms, tree protection, inlet protection, and sediment pond.

During Construction – Maintain all temporary erosion and sedimentation control structures. Inspect all temporary erosion and sedimentation control structures on a weekly basis and after rain events. Any stockpiles of topsoil or other earthen piles left undisturbed for 14 days or more must be revegetated.

After Completion of Permanent Erosion and Sediment Controls – Stabilize and restore all areas disturbed during construction. Permanent seeding will be applied immediately after the final design grades are achieved on portions of the site but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated will be removed and hauled off-site for disposal. Construction debris, trash and temporary BMPs including silt fences, material storage areas, sanitary toilets, etc. will also be removed and any areas disturbed during removal will be seeded immediately.

Section V

Permanent Stormwater Section (TCEQ-0600)

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: Mark Sabella, PE

Date: **10/24/2025**

Signature of Customer/Agent

Mark Sabella

Regulated Entity Name: Southwest Regional Park

Permanent Best Management Practices (BMPs)

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

1. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.

   ☐ N/A

2. ☒ 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

Attachment 5A – 20% or Less Impervious Cover Waiver

Improvements proposed for the subject property will increase impervious cover in excess of twenty percent. The site will not be used for multi-family residential developments, schools or small business.

Section not applicable to this project.

Attachment 5B – BMPs for Upgradient Stormwater

As shown via the existing topography on the Existing Drainage Area Map within the Construction Documents, the stormwater upgradient of the project site is routed around the site. The drainage to the north of the site is captured in a bar ditch and routed west prior to crossing Perry Mayfield Blvd.

Attachment 5C – BMPs for On-site Stormwater

The subject site is Williamson County Southwest Reginal Park, in Leander, Texas. The proposed 28.37-acre site will be developed including renovation of the existing track and field, three soccer fields and improvements to the site's drainage, sidewalks and water quality BMPs. The increase in impervious cover is approximately 382,000 square feet (SF).

Permanent water quality controls will be provided for this site by artificial turf fields with gravel and perforated pipe underdrain system and a vegetated grassy swale. The artificial turf fields have a total area of approximately 371,570 SF and will treat area for the turf fields only. The remaining 11,430 SF of impervious cover will be treated within a grassy swale that flows south and east along Borho Drive.

The grassy swale was designed in accordance with Section 3.4.5 of the TCEQ RG-348 Technical Guidance Manual. The grassy swale will account for 70% TSS removal efficiency. Discussion with TCEQ provided information stating that artificial turf fields with gravel and perforated underdrain system that would be considered as providing equivalent water quality protection. These systems do not have a TSS removal efficiency associated. They essentially are a one-for-one trade and will treat the turf field only. Plan and sections of the proposed systems are with the plan set.

Attachment 5D – BMPs for Surface Streams

There were not any features identified as sensitive in the Geologic Assessment on this site.

Section not applicable to this project.

Attachment 5E – Request to Seal Features

The permanent sealing of or diversion of flow from a naturally-occurring “sensitive” or “possibly sensitive” feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally-occurring “sensitive” or “possibly sensitive” features on this site.

Section not applicable to this project.

Attachment 5F – Construction Plans

Full-sized copies of the construction plans are submitted separately. Calculations for the BMPs are shown in the construction plans.

Attachment 5G – Inspection, Maintenance, Repair and Retrofit Plan

The following are recommended maintenance procedures for Grassy Swales as outlined in TCEQ's RG-348 Technical Guidance Addendum.

Maintenance Guidelines for Grassy Swales:

Maintenance for grassy swales is minimal and is largely aimed at keeping the grass cover dense and vigorous. Maintenance practices and schedules should be developed and included as part of the original plans to alleviate maintenance problems in the future. Recommended practices include (modified from Young et al., 1996):

- *Pest Management.* An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.

- *Seasonal Mowing and Lawn Care.* Lawn mowing should be performed routinely, as needed, throughout the growing season. Grass height should not exceed 18 inches. Grass cuttings should be collected and disposed of offsite, or a mulching mower can be used. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients.

- *Inspection.* Inspect swales at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The swale should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections should be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.

- *Debris and Litter Removal.* Trash tends to accumulate in swale areas, particularly along highways. Any swale structures (i.e. check dams) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than two times per year (Urbonas et al., 1992).

- *Sediment Removal*. Sediment accumulating near culverts and in channels needs to be removed when they build up to 3 inches at any spot, or cover vegetation. Excess sediment should be removed by hand or with flat-bottomed shovels. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level with the bottom of the swale. Sediment removal should be performed periodically, as determined through inspection.

- *Grass Reseeding and Mulching*. A healthy dense grass should be maintained in the channel and side slopes. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during swale establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established.

- *Public Education*. Private homeowners are often responsible for roadside swale maintenance. Unfortunately, overzealous lawn care on the part of homeowners can present some problems. For example, mowing the swale too close to the ground, or excessive application of fertilizer and pesticides will all be detrimental to the performance of the swale. Pet waste can also be a problem in swales, and should be removed to avoid contamination from fecal coliform and other waste-associated bacteria. The delegation of maintenance responsibilities to individual landowners is a cost benefit to the locality. However, localities should provide an active educational program to encourage the recommended practices.

The following are recommended maintenance procedures for retention/detention system as outlined in Advanced Drainage Systems Technical note for Retention/Detention Systems Maintenance, Section 6.01. The following procedures are meant to be a guide and are recommended for maintenance of the drainage system under the turf fields.

A retention/detention system is comprised of a series of pipes and fittings that form an underground storage area, which retains or detains storm water runoff from a given area. As sediment and debris settle out of the detained stormwater, build up occurs that requires the system to be regularly inspected and cleaned in order for the system to perform as originally designed. The following provides the available fittings and guidelines for inspection and maintenance of an HDPE underground storage system.

Maintenance Overview of Retention/Detention Systems:

Maintaining a clean and obstruction-free retention/detention system helps to ensure the system performs the intended function of the primary design. Build up of debris may obstruct flow through the laterals in a retention system or block the entranceway of the outlet pipe in a detention system.

This may result in ineffective operation or complete failure of the system. Additionally, surrounding areas may potentially run the risk of damage due to flooding or other similar issues.

Inspection/Maintenance Frequency

Concentric Reducers are fittings that transition between two pipes, either in line with one another or at perpendicular angles. The centerlines of the two pipes are at the same elevation. When a concentric reducer is used to connect the manifold pipe to the lateral pipes, most debris will be trapped in the manifold pipe.

Pre-Inspection

A post-installation inspection should be performed to allow the owner to measure the invert prior to accumulation of sediment. This survey will allow the monitoring of sediment build-up without requiring access to the retention/detention system.

The following is the recommended procedure for pre-inspections:

1. Locate the riser section or cleanouts of the retention/detention system. The riser will typically be 24" (600 mm) in diameter or larger and the cleanouts are usually 4" (100 mm), 6" (150 mm) or 8" (200 mm) in diameter.
2. Remove the lid of the riser or clean outs.
3. Insert a measuring device into the opening and make note to a point of reference on the stick or string. (This is done so that sediment build up can be determined in the future without having to enter the system.)

Inspection/Maintenance

A retention/detention system should be inspected at a minimum of one time a year or after major rain events if necessary.

The following is the recommended procedure to inspect system in service:

1. Locate the riser section of the retention/detention system. The riser will typically be 24" (600 mm) in diameter or larger. Remove the lid of the riser or clean outs.
2. Remove the lid from the riser.
3. Measure the sediment buildup at each riser and cleanout location. Only certified confined space entry personnel having appropriate equipment should be permitted to enter the retention/detention System.
4. Inspect each manifold, all laterals, and outlet pipes for sediment build up, obstructions, or other problems. Obstructions should be removed at this time.
5. If measured sediment build up is between 5% - 20% of the pipe diameter, cleaning should be considered; if sediment build up exceeds 20%, cleaning should be performed at the earliest opportunity. A thorough cleaning of the system (manifolds and laterals) shall be performed by either manual methods or by a vacuum truck.

These guidelines outlined for inspection, maintenance, repair and retrofit are agreed to be followed by the party responsible:

Therron Wade Dieckmann
Name

TW Dieckmann
Signature

Wilco Parks Director
Title

11.13.25
Date

Attachment 5H – Pilot-Scale Field Testing Plan

The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

Section not applicable to this project.

Attachment 5I – Measures for Minimizing Surface Stream Contamination

Permanent water quality controls will be provided for this site by artificial turf fields with gravel and perforated pipe underdrain system and a vegetated grassy swale.

The project will utilize artificial turf fields with gravel and perforated pipe underdrain system and a vegetated grassy swale to reduce the effect of the increased runoff and to mitigate stream flashing, excessive velocities and to control erosion produced by increased imperviousness of the site. To minimize stream bank erosion at the points of discharge and to dissipate the storm water velocities, rock berms are proposed within applicable channels. Vegetation will be planted to help prevent erosion. The proposed site's drainage design is to mitigate increase in flow during the 2-, 10-, 25-, and 100-year design storms to not exceed existing flow rates while providing the necessary water quality measures to meat TCEQ requirements.

Section VI

Agent Authorization Form (TCEQ-0599)

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

I TW Dieckmann,
Print Name

Parks Director,
Title - Owner/President/Other

of Williamson County Parks,
Corporation/Partnership/Entity Name

have authorized Mark Sabella, P.E.
Print Name of Agent/Engineer

of Halff
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:

T W Dieckmann
Applicant's Signature

11.13.25
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared _____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 13th day of November, 2025.

BENITA C. BONNER
Notary Public
STATE OF TEXAS
ID# 126244688
My Comm. Exp. September 6, 2027

Benita C. Bonner
NOTARY PUBLIC

Benita C. Bonner
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: September 6, 2027

Section VII

Application Fee Form (TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Southwest Regional Park Field and Track Upgrades
Regulated Entity Location: 3005 County Road 175, Leander, TX 78641
Name of Customer: Williamson County
Contact Person: TW Dieckmann Phone: (512) 943-1922
Customer Reference Number (if issued):CN _____
Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays ☐ Travis ☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☒ Austin Regional Office
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	286.317 Acres	$ 10,000.00
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	Each	$
Extension of Time	Each	$

Signature: _____ Date: **10/24/2025**

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

Project	*Project Area in Acres*	*Fee*
One Single Family Residential Dwelling	< 5	$650
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	$1,500 $3,000 $4,000 $6,500 $8,000 $10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	$3,000 $4,000 $5,000 $6,500 $8,000 $10,000

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

Section XIII

Core Data Form (TCEQ-10400)

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

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		**RN**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* | *If new Customer, enter previous Customer below:*

Williamson County Southwest Regional Park

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☒ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☒ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:	TW Dieckmann (Williamson County Park Director)						
	219 Perry Mayfield						
	City	Leander	**State**	TX	**ZIP**	78641	**ZIP + 4**	1689

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	tw.dieckmann@wilcotx.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 943-1922		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Williamson County Southwest Regional Park

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	Williamson County Southwest Regional Park							
	115 Borho Dr							
	City	Leander	**State**	TX	**ZIP**	78641	**ZIP + 4**	
24. County	Williamson							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	33	36	97	45	54

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? *(Do not repeat the SIC or NAICS description.)*

34. Mailing Address:	**TW Dieckmann (Williamson County Park Director)**							
	219 Perry Mayfield							
	City	**Leander**	**State**	**TX**	**ZIP**	**78641**	**ZIP + 4**	**1689**
35. E-Mail Address:	**tw.dieckmann@wilcotx.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 943-1922		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Kyle Dolezal- Halff	**41. Title:**	Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 777-4583		**( )** -	Msabella@halff.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Halff	**Job Title:**	Senior Project Engineer	
Name *(In Print):*	Mark Sabella, PE		**Phone:**	**(** 512 **)** 777- **4583**
Signature:			**Date:**	**10/24/2025**

LANDSCAPE ARCHITECT

HALFF ASSOCIATES
13620 BRIARWICK DRIVE, SUITE 100
AUSTIN, TEXAS 78729
CONTACT: BRIAN BINKOWSKI
EMAIL: BBINKOWSKI@HALFF.COM
TEL: 512.777.4592
LANDSCAPE / TBAE NO.: 1085 STATE: TX

CIVIL ENGINEER

HALFF ASSOCIATES
13620 BRIARWICK DRIVE, SUITE 100
AUSTIN, TEXAS 78729
CONTACT: MARK SABELLA
EMAIL: MSABELLA@HALFF.COM
TEL: 512.777.4583

WATER RESOURCES

HALFF ASSOCIATES
13620 BRIARWICK DRIVE, SUITE 100
AUSTIN, TEXAS 78729
CONTACT: MARK LEWIS
EMAIL: MLEWIS@HALFF.COM
TEL: 512.777.4638

STRUCTURAL ENGINEER

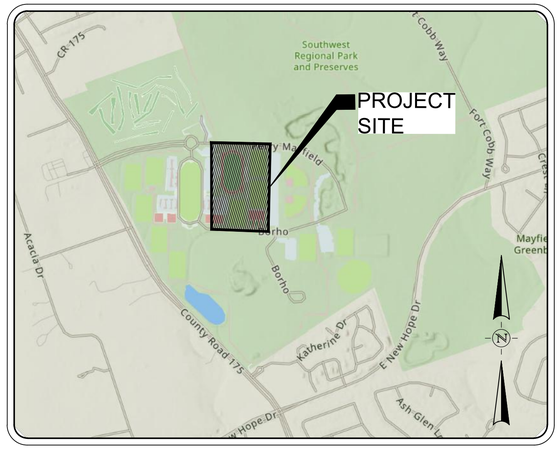
HALFF ASSOCIATES
14800 ST. MARY'S LANE, STE. 160
HOUSTON 77079
CONTACT: ALEJANDRO BRISENO
EMAIL: ABRISENO@HALFF.COM
TEL: 713.588.2487

SOUTHWEST REGIONAL PARK

FIELD & TRACK UPGRADES

100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX



LOCATION MAP

NOT TO SCALE

SHEET INDEX

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OWNER/CLIENT:

WILLIAMSON COUNTY, LEANDER TEXAS

WILCO TEXAS

PREPARED BY:

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL. (512) 777-4600

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1895
STATE OF TEXAS

10/17/2025

THE SEAL(S) APPEARING ON THIS CONSTRUCTION SET WERE AUTHORIZED BY:
BRIAN BINKOWSKI, PLA (1895)

THIS ELECTRONIC FILE IS RELEASED UNDER THE AUTHORITY OF BRIAN R. BINKOWSKI, PLA# 1895 ON 10/17/25, WHO MAINTAINS THE ORIGINAL FILE. THIS ELECTRONIC FILE MAY BE USED AS A BACKGROUND DRAWING. PURSUANT TO RULE 1.103(F) OF THE RULES AND REGULATIONS OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, THE USER OF THIS ELECTRONIC DRAWING FILE AGREES TO ASSUME ALL RESPONSIBILITY FOR ANY MODIFICATION TO OR USE OF THIS DRAWING FILE THAT IS INCONSISTENT WITH THE REQUIREMENTS OF THE RULES AND REGULATIONS OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS. NO PERSON MAY MAKE ANY MODIFICATIONS TO THIS ELECTRONIC DRAWING FILE WITHOUT THE LANDSCAPE ARCHITECT'S EXPRESS WRITTEN PERMISSION.

ALL RESPONSIBILITY FOR THE ACCURACY OF THESE PLANS REMAINS WITH THE CONSULTANT WHO PREPARED THEM. IN REVIEWING THESE PLANS, WILLIAMSON COUNTY MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN CONSULTANT

THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:
2380 PERFORMANCE DRIVE, BLDG C, SUITE 150
RICHARDSON, TEXAS 75082
TBPE FIRM #F-312

AVO: 60316.001 DATE: October 17, 2025

TABS2025xxxxxx
TEXAS DEPARTMENT OF LICENSING & REGULATION REGISTRATION NUMBER/TAS INSPECTION REQUIRED AT COMPLETION OF CONSTRUCTION

NOT FOR CONSTRUCTION:

THESE DOCUMENTS ARE NOT APPROVED FOR CONSTRUCTION, AND SHALL NOT BE USED FOR CONSTRUCTION UNTIL APPROVED BY WILLAMSON COUNTY, UNTIL A DEVELOPMENT PERMIT IS ISSUED BY THE COUNTY, AND UNTIL ALL OTHER REQUIRED CITY, COUNTY, AND STATE PERMITS ARE OBTAINED.

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THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE LEANDER AREA "ONE CALL" SYSTEM AT 1-800-344-8377 (DIG TESS) 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR- DAMAGED UTILITIES TO THE UTILITY COMPANY'S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.

SHEET TITLE
COVER

GENERAL NOTES

1. THE CONTRACTOR WILL PROVIDE FULL-TIME TRAFFIC CONTROL AS NEEDED FOR WORK WITHIN PUBLIC RIGHT-OF-WAYS. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN AND TENTATIVE CONSTRUCTION PHASING PLAN FOR APPROVAL BY THE CITY'S INSPECTOR PRIOR TO COMMENCING WORK.
2. ALL BARRICADES, SIGNS AND TRAFFIC CONTROL FOR THE PROJECT SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS.
3. THE BIDDERS FOR THE PROJECT SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIREMENTS OF WORKING IN STATE AND THE LOCAL RIGHTS-OF-WAY AND EASEMENTS. THE BIDDERS SHALL FAMILIARIZE THEMSELVES WITH ALL INSURANCE REQUIREMENTS FOR SAID WORK AND SHALL INCLUDE IN THEIR BIDS, INSURANCE COSTS AND INSURANCE PREMIUMS THAT PROVIDE FOR THE STATE OF TEXAS, WILLIAMSON COUNTY AND THE DESIGN CONSULTANT(S) AS ADDITIONAL INSURED UNDER THE CONTRACTOR'S POLICIES.
4. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) COPIES OF THE OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE: INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM OSHA; 903 SAN JACINTO, AUSTIN, TEXAS.
5. THESE PLANS PREPARED BY HALFF ASSOCIATES DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF ASSOCIATES PROFESSIONAL CONSULTANT(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE WORK. THE CONTRACTOR IS TO PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS.
6. CONTRACTOR TO COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING EXCESS AND WASTE MATERIAL, INCLUDING METHODS OF HANDLING AND DISPOSAL.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO PUBLIC AND PRIVATE FACILITIES DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE LOCAL UTILITY SYSTEMS.
8. CONTRACTOR SHALL NOTIFY THE LOCAL UTILITY SYSTEMS A MINIMUM OF THREE (3) WORKING DAYS, (MONDAY-FRIDAY) IN ADVANCE OF CONSTRUCTION STARTUP, FOLLOWED BY A LETTER OF CONFIRMATION. CONTRACTOR SHALL ALSO FIVE A MINIMUM OF THREE (3) WORKING DAYS, (MONDAY-FRIDAY), NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF THE PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
9. LOCATION OF EXISTING UTILITIES IS SHOWN ON THE PLANS WAS COMPILED FROM RECORD INFORMATION. NO WARRANTY IS IMPLIED AS TO THE ACTUAL LOCATION OF EXISTING UTILITIES, CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF THERE ARE ANY CONFLICTS BETWEEN PROPOSED AND EXISTING UTILITIES, OR IF THE EXISTING UTILITIES ARE IN ANY WAY DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS, THEN IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OR OTHER AFFECTED UTILITY BEFORE PROCEEDING WITH ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ALL CONFLICTS AT SAID LOCATIONS ON A CASE BY CASE BASIS IN ORDER TO DETERMINE IF CONTRACTOR SHOULD BE REIMBURSED FOR HIS EXPENSE IN SOLVING SAID CONFLICT.
10. CONTRACTOR SHALL MAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THESE CONSTRUCTION OPERATIONS ARE TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO AT LEAST THE PREEXISTING CONDITION AT NO ADDITIONAL COST TO WILLIAMSON COUNTY.
11. CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES WITH ALL APPLICABLE UTILITY COMPANY OR COMPANIES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
12. WHEN UNLOCATED OR INCORRECTLY LOCATED UNDERGROUND PIPING OR A BREAK IN A LINE OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS. CONTRACTOR TO COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
13. CONTRACTOR SHALL LOCATE MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. CONTRACTOR TO PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS OFF SITE.
14. NO OPEN BURNING IS ALLOWED IN CITY LIMITS. BURNING IS ALLOWED IN WILLIAMSON COUNTY BY AIR CURTAIN DESTRUCTORS METHOD AND PRIOR WRITTEN APPROVAL FROM APPLICABLE GOVERNMENT AGENCIES AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR CAN HAUL CLEARED VEGETATION TO AN ACCEPTABLE OFF-SITE LOCATION WITH WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE. PRIOR TO CONSTRUCTION THE CONTRACTOR MUST DESIGNATE TO THE LOCAL CITY'S REPRESENTATIVE WHICH METHOD WILL BE USED FOR DISPOSAL OF CLEARED VEGETATION.
15. FUEL STORAGE IS NOT ALLOWED ON THE PROJECT.
16. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY AND IN WRITING, OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT CONSTRUCTION AREA AND THE ACTIONS TO BE TAKEN TO REMEDY THE PROBLEM.
17. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
18. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS.
19. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING SANITARY FACILITIES ON THIS PROJECT FOR EMPLOYEES.
20. CONTRACTOR IS TO COORDINATE ALL MATERIALS TESTING, INCLUDING SOIL DENSITY TESTS AND RELATED SOILS ANALYSIS. TESTS TO BE ACCOMPLISHED BY AN INDEPENDENT LABORATORY UNDER CONTRACT WITH WILLIAMSON COUNTY, AT THE FREQUENCY, TIME AND LOCATION AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS. A COPY OF THE TEST RESULTS SHALL BE FORWARDED TO THE COUNTY'S REPRESENTATIVE, THE LOCAL UTILITY SYSTEMS AND THE CONTRACTOR. TESTS WHICH SHOW UNSATISFACTORY RESULTS ARE TO BE REPEATED AT THE EXPENSE OF THE CONTRACTOR SUBSEQUENT TO THE CONTRACTOR'S REMEDIAL ACTIVITIES.
21. EXISTING PAVING, BUILDINGS AND OTHER ITEMS SHOWN ON THE PLANS ARE NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACTOR AND ARE FOR INFORMATION ONLY.
22. ANY WATER HAULED TO THE SITE DURING THE INSTALLATION SHALL BE PAID FOR BY THE CONTRACTOR.
23. CONTRACTOR SHALL CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES.
24. CONTRACTOR SHALL REMOVE BUILT UP MATERIAL ON ADJACENT PUBLIC ROADWAYS RESULTING FROM HIS WORK. CLEANING TO BE AT LEAST ONCE A DAY.
25. CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN THE 100-YEAR FLOODPLAIN.
26. ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMENTS AND THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) GENERAL CONSTRUCTION NOTES. REFER STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR MORE INFORMATION.
27. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT.
28. BLASTING IS NOT PERMITTED.
29. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., THAT ARE DAMAGED OR REMOVED AND ARE NOT SCHEDULED FOR DEMOLITION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
30. MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC., SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL CONSTRUCTION.
31. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE SPECIFICATION FOR SEEDING FOR EROSION CONTROL.
32. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINED HIS WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE DESIGN CONSULTANT / OWNER.
33. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING, GRUBBING AND PRUNING EXISTING VEGETATION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL MATERIALS, STRUCTURES AND FURNISHINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. MANUFACTURER INSTALLATION INSTRUCTIONS, SPECIFICATIONS AND/OR RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE PLANS OR SPECIFICATIONS PROVIDED BY THE DESIGN CONSULTANT.
36. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE CONTRACTOR SHALL FURNISH THE GOVERNING BODIES ACCURATE "AS-BUILT" DRAWINGS FOLLOWING COMPLETION OF CONSTRUCTION. THESE "AS-BUILT" DRAWINGS SHALL MEET THE SATISFACTION OF THE GOVERNING BODIES PRIOR TO FINAL ACCEPTANCE. DELIVERABLES TO BE ONE (1) HARD COPY SET OF PLANS, DIGITAL PDF COPY AND AUTOCAD FILE(S).
37. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE DESIGN CONSULTANT(S) WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE GOVERNING BODIES MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN CONSULTANT(S).
38. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO FINAL INSPECTION RELEASE BY THE GOVERNING BODIES, THE DESIGN CONSULTANT SHALL CERTIFY IN WRITING THAT THE PROPOSED IMPROVEMENTS WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.
39. TRAILS / WALKWAYS WERE DESIGNED AND MUST BE CONSTRUCTED TO COMPLY WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT, ARTICLE 902, TEXAS CIVIL STATUES. REFER WALKWAY AND TRAIL CONSTRUCTION NOTES FOR SPECIFIC DESIGN/CONSTRUCTION CRITERIA. AN ACCESSIBILITY INSPECTION WILL BE REQUIRED AT THE END OF PROJECT CONSTRUCTION FOR COMPLIANCE WITH THE STANDARD AND AS REGULATED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR). ALL NON-COMPLIANT SURFACES AND STRUCTURES WILL BE REMOVED AND REPLACED AT NO COST TO THE OWNER/DESIGN CONSULTANT.
40. ALL TRAIL/WALKWAYS INSTALLED IN THE PUBLIC R.O.W. SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO AVOID CONFLICTS WITH EXISTING AND/OR PROPOSED UTILITIES, INCLUDING BUT NOT LIMITED TO FIRE HYDRANTS, POWER POLES, DOWN GUYS AND TRAFFIC CONTROL DEVICES.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES

TCEQ-0592 (REV. 7/15/15) - MODIFIED

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
   - THE NAME OF THE APPROVED PROJECT;
   - THE ACTIVITY START DATE; AND
   - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.
3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
4. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
5. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
6. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
7. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.
10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ 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.
12. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
   - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;
   - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;
   - C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

AUSTIN REGIONAL OFFICE		SAN ANTONIO REGIONAL OFFICE	
2800 S. IH 35, SUITE 100		14250 JUDSON ROAD	
AUSTIN, TEXAS 78704-5712		SAN ANTONIO, TEXAS 78233-4480	
PHONE	(512) 339-2929	PHONE	(210) 490-3096
FAX	(512) 339-3795	FAX	(210) 545-4329

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

UTILITY NOTES

1. THE CONTRACTOR SHALL NOT ASSUME THAT UTILITIES ARE PRECISELY LOCATED. UTILITIES ARE SHOWN TO HELP MAKE THE CONTRACTOR AWARE OF THEIR EXISTENCE. THIS MEASURE IS TAKEN TO HELP PROTECT THE INVESTEMENTS AND SERVICES OF THE OWNERS OF THE UTILITIES AND THEIR CUSTOMERS. CONTRACTOR SHALL CALL '811' FOR HELP IN LOCATING UTILITIES.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETEMINE AND VERIFY THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTYOR SHALL ASCERTAIN WHETHER ANY ADDITIONAL UTILITIES OR FACILITIES, OTHER THAN THOSE SHOWN ON THE PLANS, MAY BE PRESENT ON THE SITE OF THE WORK.
3. PRIOR TO PROCEEDING WITH CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR DESIGN CONSULTANT IF CONFLICTS OR POTENTIAL CONFLICTS OCCUR BETWEEN THE EXISTING UTILITIES AND PROPOSED CONSTRUCTION.
4. PRIOR TO PROCEEDING WITH CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE AFFECTED PARTS OF THE UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT ALL UTILITIES.
5. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE UTILITY OWNER AND MAKE RESTITUTION FOR ANY UTILITY THAT IS DAMAGED BY THE CONTRACTOR IN THE COURSE OF THE WORK.
6. THE CONTRACTOR SHALL CONTACT THE OWNER TO LOCATE EXISTING UTILITY LINES WITHIN THE PROJECT SITE.

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CAUTION - ELECTRICITY PRESENT

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING 811 OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC LINES OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES. GETTING A LADDER IN HARMS WAY OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES BAKER-ACKLEN & ASSOCIATES AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.

GEOTECHNICAL INFORMATION

- **GEOTECH**

  THE FOUNDATION DESIGN IS IN ACCORDANCE WITH A GEOTECHNICAL INVESTIGATION AND REPORT BY BEYOND ENGINEERING AND TESTING , LLC (BEYOND). REPORT NO. GT25007033, DATED SEPTEMBER 11TH, 2025.

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRUARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN S. BINKOWSKI
2595
STATE OF TEXAS

10/17/25

This electronic file is released under the authority of Brian R. Binkowski, PLA# 1695 on10/17/2025, who maintains the original file. This electronic file may be used as a background drawing. Pursuant to rule 1.103(f) of the rules and regulations of The Texas Board of Architectural Examiners, the recipient of this electronic drawing file agrees to assume all responsibility for any modification to or use of this drawing file that is inconsistent with the requirements of the rules and regulations of The Texas Board of Architectural Examiners. No person may make any modifications to this electronic drawing file without the landscape architect's express written permission.

PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN
SHEET TITLE	

GENERAL NOTES

G002

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-GNTS-60316.001.dwg DATE: October 16, 2025, TIME: 9:31 AM, USER: ah3106 AVO: 31001.005

CONSTRUCTION INSPECTION, SUBMITTALS AND TESTING

1. WILLIAMSON COUNTY WILL PROVIDE THE DAILY ON-SITE CONSTRUCTION REPRESENTATION FOR THIS PROJECT.

2. PRE-CONSTRUCTION CONFERENCE: PRIOR TO BEGINNING WORK ON THE PROJECT AND SOON AFTER THE AWARD OF THE CONTRACT, A CONFERENCE WILL BE HELD AMONG THE REPRESENTATIVES OF WILLIAMSON COUNTY, THE DESIGN CONSULTANTS, THE CONTRACTOR AND ANY SUBCONTRACTOR THAT WILL BE INVOLVED IN THE WORK. AT THAT TIME, THE CONTRACTOR SHALL SUBMIT A TENTATIVE CONSTRUCTION SCHEDULE. THIS CONFERENCE WILL MORE COMPLETELY ESTABLISH THE SEQUENCE OF WORK TO BE FOLLOWED AND ESTABLISH THE ESTIMATED PROGRESS SCHEDULE FOR COMPLETION OF THE VARIOUS TASKS. WHEN APPLICABLE, THE PRE-CONSTRUCTION CONFERENCE WILL BE HELD ONLY AFTER INSTALLATION OF THE EROSION AND SEDIMENTATION CONTROLS.

3. CONSTRUCTION PROGRESS MEETING DATES, TIMES, LOCATIONS AND FREQUENCY WILL BE ESTABLISHED AT THE PRE-CONSTRUCTION MEETING AS AGREED UPON BY ALL PARTIES INVOLVED.

4. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR APPROVAL BY CITY INSPECTOR PRIOR TO COMMENCING CONSTRUCTION REQUIRING ROAD CLOSURE.

5. SUBMITTALS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE DESIGN CONSULTANT SUBMITTALS AND SAMPLES OF ALL PRODUCTS AND MATERIALS TO BE USED ON THE PROJECT. SUBMITTALS SHALL BE PROVIDED ON A OFFICIAL LETTER HEAD/TRANSMITTAL FROM THE GENERAL CONTRACTOR AND NUMBERED IN PDF DIGITAL FORMAT AND EMAILED TO PRIME DESIGN CONSULTANT. PRODUCT MANUFACTURER, TECHNICAL DATA IF DIFFERENT FROM SOURCE; CONTENT OF PRODUCT; AMOUNT OF EACH INGREDIENT IN THE PRODUCT, AND MANUFACTURER'S DIRECTIONS AS TO USE AND APPLICATION OF THE PRODUCT, IF APPLICABLE, SHALL BE PROVIDED. PAINT/FINISHING PRODUCT SAMPLE, ROCK SAMPLE, CAST STONE SAMPLES, ETC. SHALL BE TRACTED SAME AS MATERIAL SUBMITTALS. ANY COSTS ASSOCIATED WITH ANY SAMPLING AND TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THESE COSTS SHALL BE CONSIDERED AS INCIDENTAL AND THE CONTRACTOR WILL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION.

6. TESTING:
   A. THE OWNER, WILLIAMSON COUNTY, WILL PAY ALL THE CHARGES OF TESTING LABORATORIES FOR SERVICES IN CONNECTION WITH IN PLACE FIELD DENSITIES, CONCRETE CYLINDERS TESTING, HMAC DENSITY TESTS AND ANY IN PLACE TEST REQUIRED FOR QUALITY ASSURANCE. RETESTING AFTER FAILURE OF IN PLACE TESTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
   B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PAY FOR ALL CHARGES OF TESTING LABORATORIES FOR SERVICES IN CONNECTION WITH INITIAL TESTS MADE ON ALL IMPORTED MATERIALS TO THE PROJECT SITES INCLUDING BUT NOT LIMITED TO EMBEDMENT MATERIALS, FILL MATERIAL, BACKFILL MATERIAL, SELECT MATERIAL, CRUSHED LIMESTONE BASE, SUBBASE, CONCRETE, STEEL, WOOD FORMS, LIQUID ASPHALT, AGGREGATE, WATER, CEMENT, CURING, COMPOUND, SEALANTS, ETC. THE TESTS FOR WHICH THE CONTRACTOR WILL TYPICALLY BE RESPONSIBLE ARE ATTERBERG LIMITS, SIEVE ANALYSIS, PLASTICITY INDICES, MIX DESIGN, CALIFORNIA BEARING RATIOS, PROCTORS (MOISTURE DENSITY CURVES) AND ALL TESTS REQUIRED BY THE SPECIFICATIONS THAT PROVE THE MATERIAL BROUGHT TO THE PROJECT SITES MEETS OR EXCEEDS THE SPECIFICATIONS AND CONTRACT DOCUMENTS.

SEQUENCE OF CONSTRUCTION

*SUGGESTED SEQUENCE OF CONSTRUCTION. CONTRACTOR TO PROVIDE DETAILED SEQUENCE OF CONSTRUCTION / SCHEDULE PRIOR TO COMMENCING CONSTRUCTION.

1. CONTRACTOR SHALL CONTACT OWNER TO VERIFY ACCESS.
2. TEMPORARY EROSION CONTROLS AND TREE PROTECTION TO BE INSTALLED AS INDICATED ON THE APPROVED SITE DEVELOPMENT PLANS.
3. CONTRACTOR MUST CONTACT ALL GOVERNING BODIES TO SCHEDULE A PRECONSTRUCTION COORDINATION MEETING TO BE HELD ON SITE.
4. TEMPORARY EROSION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE EROSION PLAN.
5. TEMPORARY CONTROLS TO BE INSPECTED AND MAINTAINED WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED.
6. STAKE ALIGNMENT/CRITICAL POINTS FOR ALL FEATURES, WALKWAY, ETC. FOR VERIFICATION BY LANDSCAPE ARCHITECT/PRIOR TO CONSTRUCTION.
7. PERFORM DEMOLITION, CLEARING, GRUBBING AND PRUNING OF VEGETATION. FIELD VERIFY DEMOLITION WITH DESIGN CONSULTANT / OWNER PRIOR TO BEGINNING DEMOLITION.
8. STAKE ALIGNMENT OF UTILITIES FOR VERIFICATION BY CIVIL ENGINEER / OWNER PRIOR TO COMMENCING CONSTRUCTION.
9. PERFORM ROUGH GRADING, SUBGRADE PREPARATION FOR SYNTHETIC TURF AND WALKWAY CONSTRUCTION.
10. TRAIL / WALKWAY AND MISCELLANEOUS AMENITY CONSTRUCTION.
11. FINE GRADING, IRRIGATION AND LANDSCAPE INSTALLATION.
12. REMOVE TREE PROTECTION FENCING.
13. RE-VEGETATE & MULCH SITE PER PLANS / SPECS.
14. REMOVE TEMPORARY EROSION CONTROLS UPON FINAL ACCEPTANCE OF RE-VEGATION BY OWNER/LANDSCAPE ARCHITECT.

NOTE:

EXISTING PAVEMENT, CURBS, SIDEWALKS AND STRUCTURES DAMAGED OR REMOVED BY THE CONTRACTOR THAT ARE NOT A PART OF THIS CONTRACT ARE TO BE REPAIRED BY THE CONTRACTOR TO AT LEAST THE PRE-EXISTING CONDITION AT HIS EXPENSE BEFORE ACCEPTANCE OF THE WORK.

CONCRETE AND PAVING QUALITY CONTROL NOTES

1. CONCRETE FORM WORK AND REINFORCEMENT - THE CONTRACTOR SHALL NOTIFY THE DESIGN CONSULTANT AND/OR OWNER'S INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO THE PLANNED PLACEMENT OF CONCRETE. THE CITY INSPECTOR MUST HAVE OBSERVED AND APPROVED THE FORM WORK AND REINFORCEMENT PRIOR TO ANY PLACEMENT OF CONCRETE.
2. CONCRETE FINISH AND SAW JOINTS - THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON THE SITE A FINISHED SAMPLE TRAIL/WALKWAY PANEL (8 FT.W BY 8 FT. L MINIMUM) FOR EACH PAVEMENT TYPE FOR APPROVAL BY LANDSCAPE ARCHITECT AND OWNER PRIOR TO COMMENCEMENT OF TRAIL/WALKWAY PLACEMENT.
3. ANY CONCRETE PLACED WITH AN IMPROPER FINISH SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE (NO COST TO THE OWNER).
4. ALL EXPANSION AND CONTROL JOINTS SHALL BE PLACED AS SPECIFIED ON THE CONSTRUCTION PLANS AND DETAILS.
5. ALL SAW JOINTS SHALL BE SAWN WITHIN 24 HOURS OF CONCRETE PLACEMENT. ANY CONCRETE SAWN LATER THAN THIS WHICH, IN THE OPINION OF THE DESIGN CONSULTANT AND/OR OWNER, HAS EXCESSIVE SHRINKAGE CRACKS DUE TO NOT HAVING BEEN SAWN IN A TIMELY MANNER, SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE (NO COST TO THE OWNER).
6. ALIGNMENT AND TANGENCY OF PAVEMENTS - THE EDGES OF ALL FINISHED PAVING SHALL BE STRAIGHT OR SMOOTH CURVES (AS DELINEATED ON THE PLANS) WITH NO INTERRUPTIONS SUCH AS CHORDS, WAVES, JOGS, OR MISSED TANGENTS. PAVEMENTS WITH SUCH INTERRUPTIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE (NO COST TO THE OWNER).
7. NO CONCRETE COLD JOINTS ARE ACCEPTABLE UNLESS APPROVED BY THE DESIGN CONSULTANT / OWNER.
8. ALL EXPANSION JOINTS SHALL BE PRE-MOLDED JOINT MATERIAL OR CEDAR EXPANSION JOINT WITH ZIP-STRIP. ALL JOINT SHALL RECEIVE SELF-LEVELING JOINT SEALANT COLOR MATCHED TO CONCRETE FINISH.
9. NO CONCRETE SHALL BE PLACED IN INCLEMENT WEATHER AS SPECIFIED IN THE LOCAL CITY'S STANDARD CONSTRUCTION SPECIFICATIONS.
10. CONTRACTOR IS NOT TO PLACE ASPHALT PRODUCTS ON GROUND WITHIN 48 HOURS OF FORECASTED RAIN.

TREE MITIGATION / PRESERVATION NOTES

1. SAVED OR PROTECTED TREES DAMAGED OR REMOVED BY CONSTRUCTION ACTIVITIES WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
2. REPLACEMENT TREES WILL BE 4" CALIPER MINIMUM.
3. REPLACEMENT TREES WILL BE REPLACED AT A RATE OF ONE (1) CALIPER INCH OF TREE REMOVED EQUALS ONE (1) CALIPER INCH OF TREE PLANTED. (EX.-ONE (1) 12" CALIPER INCH TREE REMOVED EQUALS THREE (3) 4" CALIPER REPLACEMENT TREES PLANTED.)
4. REPLACEMENT TREE TYPES WILL BE EQUAL TO THAT REMOVED OR ONE OF THE FOLLOWING TYPES: CEDAR ELM (ULMUS CRASSIFOLIA), CHINKAPIN OAK (QUERCUS MUHLENBERGII), LIVE OAK (QUERCUS VIRGINIANA), SHUMARD RED OAK (QUERCUS SHUMARDII), TEXAS RED OAK (QUERCUS TEXANA), OR PECAN (CARYA ILLINOENSIS).
5. REPLACEMENT TREES SHALL BE PLANTED WITHIN 50 FEET FROM WHERE THE EXISTING TREE WAS REMOVED. WHERE SITE CONDITIONS CANNOT ACCOMMODATE REPLACEMENT TREES, CONTRACTOR SHALL CONSULT WITH PROJECT LANDSCAPE ARCHITECT FOR ALTERNATIVE PLANTING LOCATION(S).
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING TEMPORARY IRRIGATION FOR A MINIMUM TWO (2) YEAR PERIOD. IRRIGATION MAY NOT BE REQUIRED IF IT CAN BE ADEQUATELY DEMONSTRATED THAT, GIVEN THE SIZE AND TYPE OF TREES PLANTED, THE PLANTING SITE AND THE TIME OF YEAR THE TREES ARE PLANTED, THE MORTALITY RATE IS LIKELY TO BE LOW.
7. REPLACEMENT TREES WILL BE GUARANTEED FOR A PERIOD OF TWO (2) YEARS FROM TIME OF PROJECT COMPLETION AND FINAL INSPECTION BY PROJECT LANDSCAPE ARCHITECT/OWNER.
8. CONTRACTOR MAY PAY A FEE IN LIEU OF REPLACING THE TREE. THE FEE WILL BE $1,000 PER CALIPER INCH REMOVED.

CONSTRUCTION LAYOUT/ DIMENSION CONTROL NOTES

1. PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL BE PROVIDED DIGITAL CAD FILES CONTAINING THE SURVEY AND DESIGN FILES FOR THE PROJECT FROM HALFF ASSOCIATES FOR LAYOUT PURPOSES.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT REGISTERED PROFESSIONAL LAND SURVEYOR (RPLS) TO SET CONTROL DIMENSIONS AND ELEVATIONS FOR THE ENTIRE PROJECT. THE SURVEYOR SHALL REVIEW THE PLANS THOROUGHLY AND POINT OUR ANY KNOWN OR DISCOVERED DISCREPANCIES TO THE DESIGN CONSULTANT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE SURVEYOR SHALL RUN A TRAVERSE LOOP ON THE SITE. THE SURVEYOR SHALL VERIFY AND CONFIRM IN WRITING TO THE CONTRACTOR THAT THE BENCH MARKS ARE CORRECT WITH REGARD TO THE DIFFERENCE IN THE THEIR ELEVATIONS AND WITH REGARD TO THE ELEVATIONS OF AT LEAST FOUR CHECKPOINTS EVENLY DISTRIBUTED ON THE SITE FOR WHICH ELEVATIONS ARE GIVEN. CHECKPOINTS MAY BE ANY MANMADE OR NATURAL FEATURE THAT CAN BE READILY IDENTIFIED AND MEASURED.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING PERMANENT AND TEMPORARY BENCHMARKS, MONUMENTS AND CONTROL POINTS FOR THE DURATION OF THE PROJECT.
4. COORDINATE POINTS/STATIONING SHALL BE USED TO LOCATE ITEMS TO BE CONSTRUCTED. ALL COORDINATE POINTS SHALL BE STAKED IN THE FIELD AND VERIFIED BY THE CONTRACTOR.
5. USE DIMENSIONAL INFORMATION PROVIDED ON THE PLANS. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL PREVAIL.
6. THE PLANS FOR THIS PROJECT SHOW PROPOSED ELEVATIONS, SLOPES AND DIMENSIONS THAT ARE INTENDED FOR ACTUAL PLACEMENT. THERE MAY BE SOME INSTANCES WHERE EXISTING CONDITIONS MAKE IT IMPRACTICAL TO ACHIEVE THE IDEAL. IN THOSE INSTANCES, THE DESIGN CONSULTANT / OWNER WILL ASSIST THE CONTRACTOR IN MAKING PROPER FIELD CHANGES TO ACCOMMODATE SUCH CONDITIONS .

ACCESSIBLE TRAIL/WALKWAY GRADING AND EARTHWORK NOTES

1. TRAILS / WALKWAYS WERE DESIGNED AND MUST BE CONSTRUCTED TO COMPLY WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT, ARTICLE 902, TEXAS CIVIL STATUES. AN ACCESSIBILITY INSPECTION WILL BE REQUIRED AT THE END OF PROJECT CONSTRUCTION FOR COMPLIANCE WITH THE STANDARD AND AS REGULATED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
2. SEE SPECIFICATIONS FOR REQUIREMENTS RELATED TO: CLEARING AND GRUBBING; EARTHWORK; TOPSOIL STRIPPING, STOCKPILING, AND REPLACEMENT; SELECT FILL AND FINE GRADING (BLUE TOP) OPERATIONS. REFER TRAIL/WALKWAY CLEARING, GRUBBING AND RE-VEGETATION NOTES FOR ADDITIONAL GRADING INFORMATION.
3. CONTRACTOR SHALL HAUL OFF ALL WASTE, DEBRIS AND TRASH AS NECESSARY DURING EXCAVATION. CONTRACTOR SHALL USE ON-SITE AND APPROVED IMPORT FILL MATERIAL AS NECESSARY TO ESTABLISH FINISHED GRADES. NO SEPARATE PAYMENTS WILL BE MADE FOR THESE ITEMS. ALL COSTS TO BE INCLUDED IN BASE BID.
4. CROSS SLOPES OF TRAILS / WALKWAYS SHALL NOT EXCEED A GRADIENT OF 1.50% (0.15 FOOT RISE IN 10.00 FEET OR RUN) UNLESS OTHERWISE NOTED.
5. LONGITUDINAL SLOPES OF TRAILS / WALKWAYS SHALL NO EXCEED A GRADIENT OF 4.5% (0.45 FOOT RISE IN 10.00 FEET OF RUN) UNLESS OTHERWISE NOTED.
6. CROSS-SLOPES OF EARTHEN BERMS AND BACKFILL SLOPES SHALL NOT EXCEED A GRADIENT OF 3:1 (33%).
7. WHERE A TRAIL/WALKWAY INTERSECTS ANOTHER TRAIL/WALKWAY, SLAB OR OTHER STRUCTURE, THE CROSS SLOPE AT THE INTERSECTION SHALL NOT EXCEED 1.50% IN ALL DIRECTIONS, NO EXCEPTION.
8. NO CHANGE IN LEVEL GREATER THAN 1/4 IN. WILL BE ACCEPTED. CHANGES IN LEVEL BETWEEN 1/4 IN. MIN. AND 1/2 IN. MAX. SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
9. EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM ON THE GROUND SURVEY AND AVAILABLE LIDAR INFORMATION. TRAIL/WALKWAY ARE DESIGNED, SPECIFIED AND TO BE CONSTRUCTED TO FOLLOW EXISTING TOPOGRAPHY UNLESS OTHERWISE NOTED. TRAIL/WALKWAY ALIGNMENTS MAY REQUIRE VERTICAL AND/ OR HORIZONTAL ADJUSTMENTS DURING CONSTRUCTION TO ACCOMMODATE ACTUAL FIELD CONDITIONS. ALL ALIGNMENT CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION OF SUCH ADJUSTMENTS.

SCALE CHANGES

1. CONTRACTOR TO NOTE THAT PLANS CHANGE SCALES THROUGHOUT THE SET.

SURVEY BENCHMARK INFORMATION

THIS PROJECT IS REFERENCED, FOR ALL BEARING AND COORDINATE BASIS, TO THE TEXAS COORDINATE SYSTEM, CENTRAL ZONE (4203), NORTH AMERICAN DATUM OF 1983 (2011) EPOCH 2010.00, GEOID 18.

ALL COORDINATES SHOWN HEREON ARE SURFACE COORDINATES AND CAN BE ADJUSTED TO GRID BY DIVIDING BY THE SURFACE ADJUSTMENT FACTOR OF 1.00012.

ALL ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 AND WERE DERIVED FROM GPS OBSERVATIONS.

1/2" IRON RODS WITH HALFF CAPS (SIRH4) HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177173.16	3104718.322	897.925
10177157.04	3105405.23	899.718
10178285.43	3105111.62	914.357

SET 60D NAILS HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177232.7	3104825.297	899.356
10177239.59	3105675.752	901.365
10177662.58	3105528.096	907.925
10177724.76	3104857.267	903.729
10178240.06	3104958.156	910.821
10178237.63	3105505.932	916.683

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN E. BINKOWSKI
1895
STATE OF TEXAS

10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

GENERAL NOTES

G003

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-GNTS-60316.001.dwg DATE: October 16, 2025, TIME: 9:30 AM, USER: ah3106 AVO: 31001.005

TREE SCHEDULE

TAG NO.	SIZE (INCHES)	HALF CRITICAL ROOT ZONE (IN FEET)	COMMON NAME	LATIN NAME	REMOVE?	INCHES REMOVED	KEY	NOTE
5833	12	6	LIVE OAK	Quercus virginiana	NO			
5834	14	7	LIVE OAK	Quercus virginiana	NO			
5835	16	8	LIVE OAK	Quercus virginiana	NO			
5836	9	4.5	LIVE OAK	Quercus virginiana	NO			
5837	15	7.5	LIVE OAK	Quercus virginiana	NO			
5838	13	6.5	LIVE OAK	Quercus virginiana	NO			
5839	14	7	LIVE OAK	Quercus virginiana	NO			
5840	13	6.5	LIVE OAK	Quercus virginiana	NO			
5841	14	7	LIVE OAK	Quercus virginiana	NO			
5842	15	7.5	LIVE OAK	Quercus virginiana	NO			
5843	20	10	LIVE OAK	Quercus virginiana	NO			
5844	14	7	LIVE OAK	Quercus virginiana	NO			
5845	17	8.5	LIVE OAK	Quercus virginiana	NO			
5846	17	8.5	LIVE OAK	Quercus virginiana	NO			
5847	14	7	LIVE OAK	Quercus virginiana	NO			
5848	14	7	LIVE OAK	Quercus virginiana	NO			
5849	11	5.5	LIVE OAK	Quercus virginiana	NO			
5850	11	5.5	LIVE OAK	Quercus virginiana	NO			
5851	21.5 (15/13)	10.75	LIVE OAK	Quercus virginiana	NO			
5852	8.5	4.25	LIVE OAK	Quercus virginiana	NO			
5853	17	8.5	LIVE OAK	Quercus virginiana	NO			
5854	20 (14/12)	10	LIVE OAK	Quercus virginiana	NO			
5855	13	6.5	LIVE OAK	Quercus virginiana	NO			
5856	14 (8/10)	7	LIVE OAK	Quercus virginiana	NO			
5857	8	4	LIVE OAK	Quercus virginiana	NO			
5858	8	4	LIVE OAK	Quercus virginiana	NO			
5859	11	5.5	LIVE OAK	Quercus virginiana	NO			
5860	14 (10/8)	7	LIVE OAK	Quercus virginiana	NO			
5861	9	4.5	LIVE OAK	Quercus virginiana	NO			
5862	10	5	LIVE OAK	Quercus virginiana	NO			
5863	13	6.5	LIVE OAK	Quercus virginiana	NO			
5864	13	6.5	LIVE OAK	Quercus virginiana	NO			
5865	15	7.5	LIVE OAK	Quercus virginiana	NO			
5866	10	5	LIVE OAK	Quercus virginiana	NO			
5867	32 (13/11/8/8/6/5)	16	LIVE OAK	Quercus virginiana	NO			
5868	10	5	LIVE OAK	Quercus virginiana	NO			
5869	11	5.5	LIVE OAK	Quercus virginiana	NO			
5870	11	5.5	LIVE OAK	Quercus virginiana	NO			
5871	11	5.5	LIVE OAK	Quercus virginiana	NO			
5872	9	4.5	LIVE OAK	Quercus virginiana	NO			
5873	18 (12/12)	9	LIVE OAK	Quercus virginiana	NO			
5874	9	4.5	LIVE OAK	Quercus virginiana	NO			
5875	10	5	LIVE OAK	Quercus virginiana	NO			
5876	11	5.5	LIVE OAK	Quercus virginiana	NO			
5877	13.5 (10/7)	6.75	LIVE OAK	Quercus virginiana	NO			
5878	16	8	LIVE OAK	Quercus virginiana	NO			
5879	8	4	LIVE OAK	Quercus virginiana	NO			
5880	10	5	LIVE OAK	Quercus virginiana	NO			
5881	10	5	LIVE OAK	Quercus virginiana	NO			
5882	17.5 (12/11)	8.75	LIVE OAK	Quercus virginiana	NO			
5883	16	8	LIVE OAK	Quercus virginiana	NO			
5884	15	7.5	LIVE OAK	Quercus virginiana	NO			
5885	14	7	LIVE OAK	Quercus virginiana	NO			
5886	12	6	LIVE OAK	Quercus virginiana	NO			
5887	15 (10/10)	7.5	LIVE OAK	Quercus virginiana	NO			
5888	14	7	LIVE OAK	Quercus virginiana	NO			
5889	13	6.5	LIVE OAK	Quercus virginiana	NO			
5890	15	7.5	LIVE OAK	Quercus virginiana	NO			
5891	15	7.5	LIVE OAK	Quercus virginiana	NO			
5892	14	7	LIVE OAK	Quercus virginiana	NO			
5893	8	4	LIVE OAK	Quercus virginiana	NO			
5894	10	5	LIVE OAK	Quercus virginiana	NO			
5895	10	5	LIVE OAK	Quercus virginiana	NO			
5896	8	4	LIVE OAK	Quercus virginiana	NO			
5897	10	5	LIVE OAK	Quercus virginiana	NO			
5898	14 (10/8)	7	LIVE OAK	Quercus virginiana	NO			
5899	9	4.5	LIVE OAK	Quercus virginiana	NO			
5900	15	7.5	LIVE OAK	Quercus virginiana	NO			
5901	***17.5 (13/9)***	***8.75***	***LIVE OAK***	***Quercus virginiana***	***YES***	***17.5***		(Field 7)
5902	14.5 (10/9)	7.25	LIVE OAK	Quercus virginiana	NO			
5903	8	4	LIVE OAK	Quercus virginiana	NO			
5904	10	5	LIVE OAK	Quercus virginiana	NO			
5905	31 (14/13/13/8)	15.5	LIVE OAK	Quercus virginiana	NO			
5906	***15***	***7.5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***15***		(Field 7)
5907	***14***	***7***	***LIVE OAK***	***Quercus virginiana***	***YES***	***14***		(Field 7)
5908	9	4.5	LIVE OAK	Quercus virginiana	NO			
5909	8.5	4.25	LIVE OAK	Quercus virginiana	NO			
5910	8	4	LIVE OAK	Quercus virginiana	NO			
5911	12 (8/8)	12	LIVE OAK	Quercus virginiana	NO			
5912	10.5 (7/7)	5.25	LIVE OAK	Quercus virginiana	NO			
5913	8	4	LIVE OAK	Quercus virginiana	NO			
5914	***15.5 (12/7)***	***7.75***	***LIVE OAK***	***Quercus virginiana***	***YES***	***15.5***		(Field 7)
5915	15	7.5	LIVE OAK	Quercus virginiana	NO			
5916	19	9.5	LIVE OAK	Quercus virginiana	NO			
5917	16	8	LIVE OAK	Quercus virginiana	NO			
5918	16	8	LIVE OAK	Quercus virginiana	NO			
5919	28.5 (16/11/9/5)	14.25	LIVE OAK	Quercus virginiana	NO			
5920	25 (17/16)	12.5	LIVE OAK	Quercus virginiana	NO			
5921	17 (10/7/7)	8.5	PIN OAK	Quercus palustris	NO			
5922	12	6	LIVE OAK	Quercus virginiana	NO			
5923	21 (14/14)	10.5	LIVE OAK	Quercus virginiana	NO			
5924	15	7.5	LIVE OAK	Quercus virginiana	NO			
5925	11	5.5	LIVE OAK	Quercus virginiana	NO			
5926	15	7.5	LIVE OAK	Quercus virginiana	NO			
5927	19 (13/12)	9.5	LIVE OAK	Quercus virginiana	NO			
5928	16	8	LIVE OAK	Quercus virginiana	NO			
5929	10	5	LIVE OAK	Quercus virginiana	NO			
5930	8.5	4.25	LIVE OAK	Quercus virginiana	NO			
5931	9	4.5	LIVE OAK	Quercus virginiana	NO			
5932	10	5	LIVE OAK	Quercus virginiana	NO			
5933	12.5 (9/7)	6.25	LIVE OAK	Quercus virginiana	NO			
5934	17	8.5	POST OAK	Quercus stellata	NO			
5935	15	7.5	LIVE OAK	Quercus virginiana	NO			
5936	14	7	LIVE OAK	Quercus virginiana	NO			
5937	14	7	LIVE OAK	Quercus virginiana	NO			
5938	10	5	LIVE OAK	Quercus virginiana	NO			
5939	10	5	LIVE OAK	Quercus virginiana	NO			
5940	20	10	LIVE OAK	Quercus virginiana	NO			
5941	11.5	5.75	LIVE OAK	Quercus virginiana	NO			
5942	10.5	5.25	LIVE OAK	Quercus virginiana	NO			
5943	35.5 (19/14/8/11)	17.75	LIVE OAK	Quercus virginiana	NO			
5944	11	5.5	CEDAR	Juniperus ashei	NO			
5945	14	7	CEDAR	Juniperus ashei	NO			
5946	22 (15/14)	11	LIVE OAK	Quercus virginiana	NO			
5947	17	8.5	LIVE OAK	Quercus virginiana	NO			
5948	8	4	LIVE OAK	Quercus virginiana	NO			
5949	19	9.5	CEDAR	Juniperus ashei	NO			
5950	17	8.5	LIVE OAK	Quercus virginiana	NO			
5951	19 (14/10)	9.5	CEDAR ELM	Ulmas crassifolia	NO			
5952	10	5	LIVE OAK	Quercus virginiana	NO			
5953	11	5.5	CEDAR	Juniperus ashei	NO			
5954	13	6.5	LIVE OAK	Quercus virginiana	NO			
5955	11	5.5	LIVE OAK	Quercus virginiana	NO			
5956	14	7	LIVE OAK	Quercus virginiana	NO			
5957	21	10.5	LIVE OAK	Quercus virginiana	NO			
5958	13	6.5	LIVE OAK	Quercus virginiana	NO			
5959	15	7.5	LIVE OAK	Quercus virginiana	NO			
5960	19	9.5	LIVE OAK	Quercus virginiana	NO			
5961	23	11.5	LIVE OAK	Quercus virginiana	NO			
5962	13	6.5	LIVE OAK	Quercus virginiana	NO			
5963	***12***	***6***	***LIVE OAK***	***Quercus virginiana***	***YES***	***12***		(Field 9)
5964	***10***	***5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***10***		(Field 9)
5965	***9***	***4.5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***9***		(Field 9)
5966	***10***	***5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***10***		(Field 9)
5967	***10***	***5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***10***		(Field 9)
5968	***12***	***6***	***LIVE OAK***	***Quercus virginiana***	***YES***	***12***		(Field 9)
5969	***10***	***5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***10***		(Field 9)
5970	***8***	***4***	***LIVE OAK***	***Quercus virginiana***	***YES***	***8***		(Field 9)
5971	15	7.5	LIVE OAK	Quercus virginiana	NO			
5972	8	4	LIVE OAK	Quercus virginiana	NO			
5973	11	5.5	LIVE OAK	Quercus virginiana	NO			
5974	11	5.5	LIVE OAK	Quercus virginiana	NO			
5975	14	7	LIVE OAK	Quercus virginiana	NO			
5976	13	6.5	LIVE OAK	Quercus virginiana	NO			
5977	12	6	LIVE OAK	Quercus virginiana	NO			
5978	14	7	LIVE OAK	Quercus virginiana	NO			
5979	16	8	LIVE OAK	Quercus virginiana	NO			
5980	14	7	LIVE OAK	Quercus virginiana	NO			
5981	16	8	LIVE OAK	Quercus virginiana	NO			
5982	24	12	LIVE OAK	Quercus virginiana	NO			
5983	43 (20/17/16/12)	21.5	LIVE OAK	Quercus virginiana	NO			
5984	***14***	***7***	***LIVE OAK***	***Quercus virginiana***	***YES***	***14***		(Field 7 & Field 8)
5985	***10***	***5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***10***		(Field 7 & Field 8)
5986	***12***	***6***	***LIVE OAK***	***Quercus virginiana***	***YES***	***12***		(Field 7 & Field 8)
5987	***13***	***6.5***	***LIVE OAK***	***Quercus virginiana***	***YES***	***13***		(Field 7 & Field 8)
5988	***16***	***8***	***RED OAK***	***Quercus buckleyi***	***YES***	***16***		(Field 7 & Field 8)
5989	14	7	LIVE OAK	Quercus virginiana	NO			
5990	19 (9/14)	9.5	LIVE OAK	Quercus virginiana	NO			
5991	19	9.5	LIVE OAK	Quercus virginiana	NO			
5992	18	9	LIVE OAK	Quercus virginiana	NO			
5993	13	6.5	LIVE OAK	Quercus virginiana	NO			
5994	17	8.5	LIVE OAK	Quercus virginiana	NO			
5995	19	9.5	LIVE OAK	Quercus virginiana	NO			
5996	14	7	LIVE OAK	Quercus virginiana	NO			
5997	15	7.5	LIVE OAK	Quercus virginiana	NO			
5998	9	4.5	CEDAR	Juniperus ashei	NO			
5999	11 (8/7)	5.5	LIVE OAK	Quercus virginiana	NO			
6000	12 (8/8)	6	LIVE OAK	Quercus virginiana	NO			
9201	9	4.5	LIVE OAK	Quercus virginiana	NO			
9202	9	4.5	LIVE OAK	Quercus virginiana	NO			
9203	8	4	CEDAR	Juniperus ashei	NO			
9204	23 (11/9/8/7)	11.5	LIVE OAK	Quercus virginiana	NO			
9205	17 (9/8/7)	8.5	LIVE OAK	Quercus virginiana	NO			
9206	19 (10/9/8)	9.5	LIVE OAK	Quercus virginiana	NO			
9207	8	4	LIVE OAK	Quercus virginiana	NO			
9208	8	4	LIVE OAK	Quercus virginiana	NO			
9209	17 (14/6)	8.5	LIVE OAK	Quercus virginiana	NO			
9210	8	4	LIVE OAK	Quercus virginiana	NO			
9211	10	5	LIVE OAK	Quercus virginiana	NO			
9212	19 (12/7/6)	9.5	LIVE OAK	Quercus virginiana	NO			
9213	8	4	LIVE OAK	Quercus virginiana	NO			
9214	12	6	LIVE OAK	Quercus virginiana	NO			
9215	18	9	LIVE OAK	Quercus virginiana	NO			
9216	20 (12/14)	10	BLACK WILLOW	Salix nigra	NO			
9217	13	6.5	LIVE OAK	Quercus virginiana	NO			
9218	13	6.5	LIVE OAK	Quercus virginiana	NO			
9219	17	8.5	LIVE OAK	Quercus virginiana	NO			
9220	13	6.5	LIVE OAK	Quercus virginiana	NO			
9221	15	7.5	RED OAK	Quercus buckleyi	NO			
9222	20	10	LIVE OAK	Quercus virginiana	NO			
9223	12	6	RED OAK	Quercus buckleyi	NO			
9224	12	6	RED OAK	Quercus buckleyi	NO			
9225	16	8	LIVE OAK	Quercus virginiana	NO			
9226	15	7.5	LIVE OAK	Quercus virginiana	NO			
9227	12	6	RED OAK	Quercus buckleyi	NO			
9228	11	5.5	RED OAK	Quercus buckleyi	NO			
9229	9	4.5	LIVE OAK	Quercus virginiana	NO			
9230	14	7	LIVE OAK	Quercus virginiana	NO			
9231	13	6.5	LIVE OAK	Quercus virginiana	NO			
9232	11	5.5	LIVE OAK	Quercus virginiana	NO			
9233	11	5.5	LIVE OAK	Quercus virginiana	NO			
9234	12	6	LIVE OAK	Quercus virginiana	NO			
9235	10	5	RED OAK	Quercus buckleyi	NO			
9236	12	6	LIVE OAK	Quercus virginiana	NO			
9237	12	6	LIVE OAK	Quercus virginiana	NO			
9238	11	5.5	LIVE OAK	Quercus virginiana	NO			
9239	12	6	LIVE OAK	Quercus virginiana	NO			
9240	12	6	LIVE OAK	Quercus virginiana	NO			
9241	11	5.5	LIVE OAK	Quercus virginiana	NO			
9242	20 (12/8/7)	10	LIVE OAK	Quercus virginiana	NO			
9243	15 (10/10)	7.5	LIVE OAK	Quercus virginiana	NO			
9244	12	6	LIVE OAK	Quercus virginiana	NO			
9245	13 (9/8)	6.5	LIVE OAK	Quercus virginiana	NO			
9246	8	4	LIVE OAK	Quercus virginiana	NO			
9247	10	5	LIVE OAK	Quercus virginiana	NO			
9248	11	5.5	LIVE OAK	Quercus virginiana	NO			
9249	9	4.5	LIVE OAK	Quercus virginiana	NO			
9250	10	5	LIVE OAK	Quercus virginiana	NO			
9251	11	5.5	LIVE OAK	Quercus virginiana	NO			
9252	12	6	LIVE OAK	Quercus virginiana	NO			
9253	9	4.5	LIVE OAK	Quercus virginiana	NO			
9254	12	6	LIVE OAK	Quercus virginiana	NO			
9255	12	6	LIVE OAK	Quercus virginiana	NO			
9256	12	6	LIVE OAK	Quercus virginiana	NO			
9257	15	7.5	CEDAR	Juniperus ashei	NO			
9258	15 (10/10)	7.5	LIVE OAK	Quercus virginiana	NO			
9259	12	6	LIVE OAK	Quercus virginiana	NO			
9260	12	6	LIVE OAK	Quercus virginiana	NO			
9261	14	7	LIVE OAK	Quercus virginiana	NO			
9262	17	8.5	LIVE OAK	Quercus virginiana	NO			
9263	18 (12/11)	9	LIVE OAK	Quercus virginiana	NO			
9264	11	5.5	LIVE OAK	Quercus virginiana	NO			
9265	18 (13/9)	9	LIVE OAK	Quercus virginiana	NO			
9266	14	7	LIVE OAK	Quercus virginiana	NO			
9267	14	7	LIVE OAK	Quercus virginiana	NO			
9268	11 (8/6)	5.5	LIVE OAK	Quercus virginiana	NO			
9269	16	8	CEDAR	Juniperus ashei	NO			
9270	12	6	LIVE OAK	Quercus virginiana	NO			
9271	11	5.5	LIVE OAK	Quercus virginiana	NO			
9272	10	5	LIVE OAK	Quercus virginiana	NO			
9273	8	4	LIVE OAK	Quercus virginiana	NO			
9274	17 (10/8/6)	8.5	LIVE OAK	Quercus virginiana	NO			
9275	25 (13/12/11)	12.5	LIVE OAK	Quercus virginiana	NO			
9276	11	5.5	LIVE OAK	Quercus virginiana	NO			
9277	14	7	LIVE OAK	Quercus virginiana	NO			
9278	13 (9/8)	6.5	LIVE OAK	Quercus virginiana	NO			
9279	12	6	LIVE OAK	Quercus virginiana	NO			
9280	31 (20/12/10)	15.5	LIVE OAK	Quercus virginiana	NO			
9281	10	5	LIVE OAK	Quercus virginiana	NO			
9282	12 (8/8)	6	CEDAR	Juniperus ashei	NO			
9283	8	4	CEDAR	Juniperus ashei	NO			
9284	12	6	HACKBERRY	Celtis occidentalis	NO			
9285	9	4.5	CEDAR	Juniperus ashei	NO			

LANDSCAPE SUMMARY TABLE

TOTAL NUMBER OF ALL PROTECTED AND HERITAGE TREES: 253 TREES | 3,475.50 INCHES
TOTAL NUMBER OF ALL PROTECTED TREES TO REMAIN: 236 TREES | 3,267.50 INCHES
TOTAL NUMBER OF TREES / INCHES TO BE REMOVED: 17 TREES | 208 INCHES

DATE OF TREE SURVEY: 6/26/2025

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2677
STATE OF TEXAS
1895

10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

TREE LIST

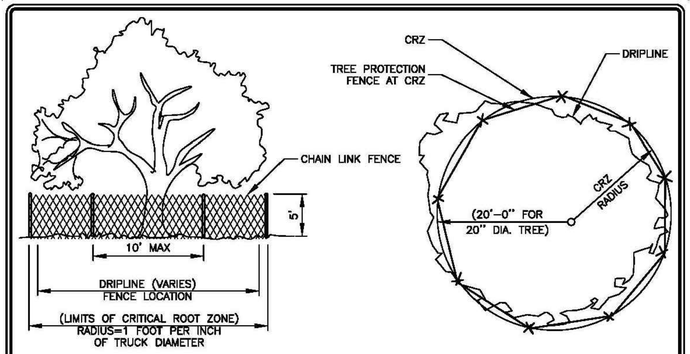
TPD100

FILE NAME: A:\60000s\60316001\LA\CADD\Sheets\L-PLAN-DEMO-TPP-60316.001.dwg DATE: October 16, 2025, TIME: 9:38 AM, USER: ah3106 AVO: 31001.005

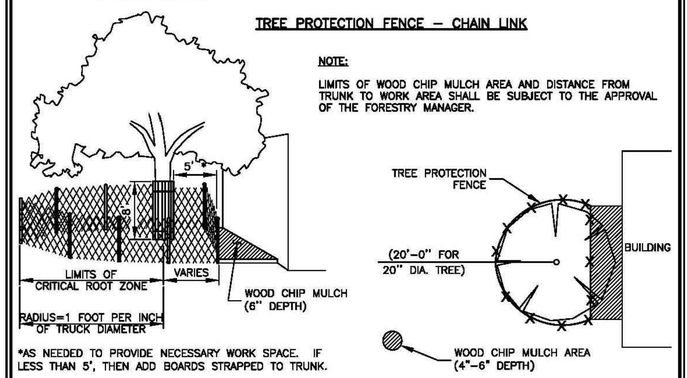
1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC–02), TREE PROTECTION TREE LOCATION (EC–03) AND TREE PROTECTION FENCE–CHAIN LINK (EC–04).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD–UP WITHIN TREE DRIPLINES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   - 6A. SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
   - 6B. CRZ DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY MANAGER.
   - 6C. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
   - 6D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
   - 7A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
   - 7B. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   - 7C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   - 7D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED–ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE REQUIREMENTS AND NEGLIGENT DAMAGE TO TREES MAY BE CONSIDERED AS ORDINANCE VIOLATIONS.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03–25–11 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	CITY OF ROUND ROCK TREE PROTECTION NOTES	DRAWING NO: EC–01



TREE PROTECTION FENCE – CHAIN LINK



NOTE:

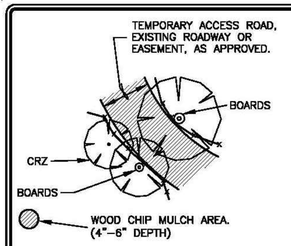
LIMITS OF WOOD CHIP MULCH AREA AND DISTANCE FROM TRUNK TO WORK AREA SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

*AS NEEDED TO PROVIDE NECESSARY WORK SPACE. IF LESS THAN 5', THEN ADD BOARDS STRAPPED TO TRUNK.

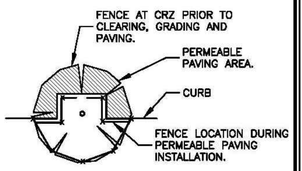
TREE PROTECTION FENCE (MODIFIED) – CHAIN LINK

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

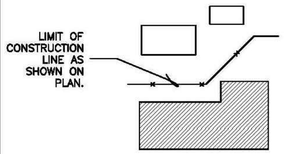
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03–25–11 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	CITY OF ROUND ROCK TREE PROTECTION FENCE CHAIN LINK	DRAWING NO: EC–04



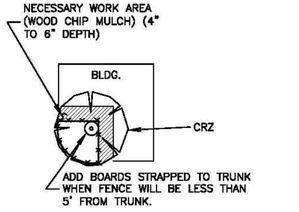
LINEAR CONSTRUCTION THROUGH TREES



TREES IN PAVING AREA



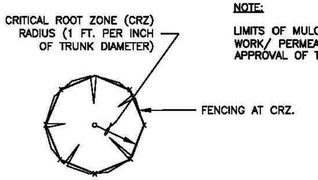
NATURAL AREAS



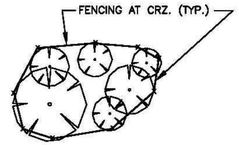
TREES NEAR CONSTRUCTION ACTIVITY

NOTE:

LIMITS OF MULCH AREAS AND DISTANCE FROM TRUNKS TO WORK/ PERMEABLE PAVING AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.



INDIVIDUAL TREE



GROUP OF TREES

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED 03–25–11 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	CITY OF ROUND ROCK TREE PROTECTION FENCE LOCATIONS	DRAWING NO: EC–03

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRIV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512)777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1895
STATE OF TEXAS

10/17/25

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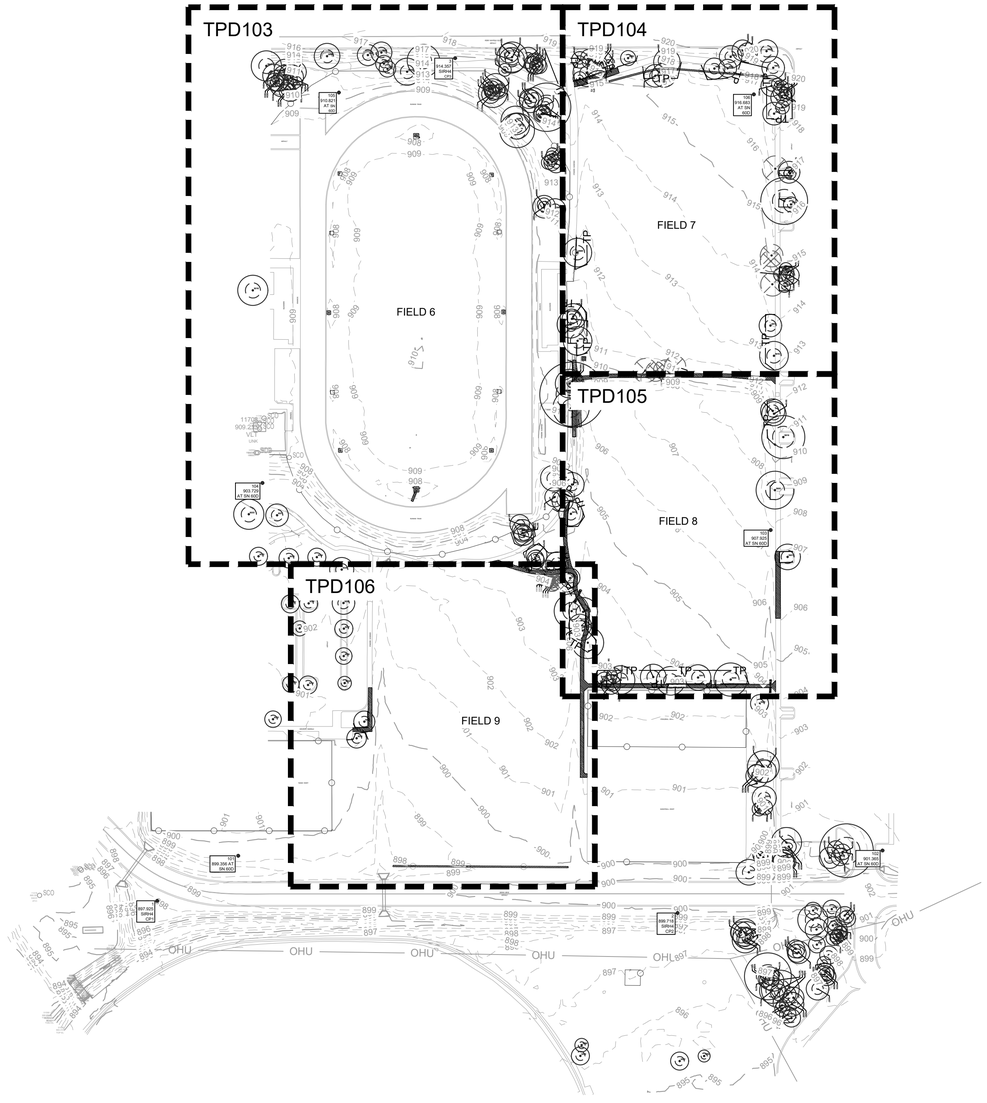
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

TREE PROTECTION NOTES & DETAILS

TPD101

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DEMO-TPP-60316.001.dwg DATE: October 16, 2025, TIME: 9:38 AM, USER: ah3106 AVO: 31001.005



SURVEY BENCHMARK INFORMATION

THIS PROJECT IS REFERENCED, FOR ALL BEARING AND COORDINATE BASIS, TO THE TEXAS COORDINATE SYSTEM, CENTRAL ZONE (4203), NORTH AMERICAN DATUM OF 1983 (2011) EPOCH 2010.00, GEOID 18.

ALL COORDINATES SHOWN HEREON ARE SURFACE COORDINATES AND CAN BE ADJUSTED TO GRID BY DIVIDING BY THE SURFACE ADJUSTMENT FACTOR OF 1.00012.

ALL ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 AND WERE DERIVED FROM GPS OBSERVATIONS.

1/2" IRON RODS WITH HALFF CAPS (SIRH4) HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177173.16	3104718.322	897.925
10177157.04	3105405.23	899.718
10178285.43	3105111.62	914.357

SET 60D NAILS HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177232.7	3104825.297	899.356
10177239.59	3105675.752	901.365
10177662.58	3105528.096	907.925
10177724.76	3104857.267	903.729
10178240.06	3104958.156	910.821
10178237.63	3105505.932	916.683

NOTES:

1. PRIOR TO TREE CLEARING/REMOVAL, CONTRACTOR TO MEET WITH OWNER/LANDSCAPE ARCHITECT TO VERIFY TREES TO BE REMOVED. SOME TREES ARE SHOWN TO BE SAVED/REMAIN BUT MAY REQUIRE REMOVAL ONCE SITE LAYOUT AND EARTHWORK OPERATIONS ARE COMPLETE.
2. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED PRIOR TO CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE RE-VEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF ROUND ROCK ORDINANCES.
4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION.
5. MINOR FIELD ADJUSTMENTS TO TREE PROTECTION FENCING MAY BE REQUIRED DURING CONSTRUCTION FOR ADDITIONAL PRESERVATION.
6. REFER TO IRRIGATION SHEETS (L600-L604) FOR DEMO, REMOVAL, CAPPING, ADJUSTMENTS, ETC.

LEGEND

1000	TREE TO BE REMOVED
1000	TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
TP	TREE PROTECTION FENCE
	EXISTING MATERIAL DEMOLITION / REMOVAL

0 50 100 200
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS
3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
STATE OF TEXAS
10/17/25

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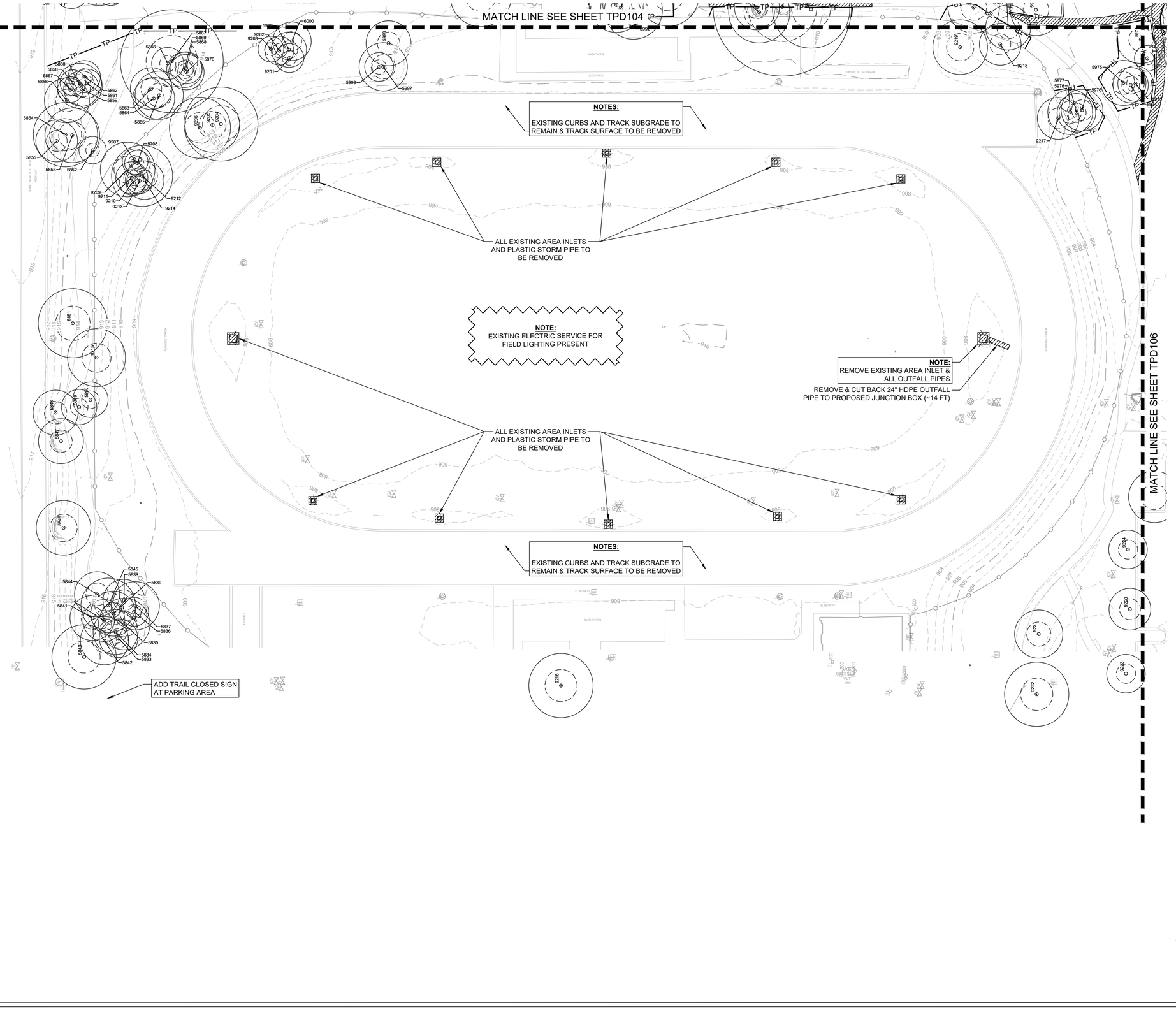
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

OVERALL TREE PROTECTION & DEMO PLAN

TPD102

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DEMO-TPP-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005



NOTES:

1. PRIOR TO TREE CLEARING/REMOVAL, CONTRACTOR TO MEET WITH OWNER/LANDSCAPE ARCHITECT TO VERIFY TREES TO BE REMOVED. SOME TREES ARE SHOWN TO BE SAVED/REMAIN BUT MAY REQUIRE REMOVAL ONCE SITE LAYOUT AND EARTHWORK OPERATIONS ARE COMPLETE.
2. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED PRIOR TO CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE RE-VEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF ROUND ROCK ORDINANCES.
4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION.
5. MINOR FIELD ADJUSTMENTS TO TREE PROTECTION FENCING MAY BE REQUIRED DURING CONSTRUCTION FOR ADDITIONAL PRESERVATION.
6. REFER TO IRRIGATION SHEETS (L600-L604) FOR DEMO, REMOVAL, CAPPING, ADJUSTMENTS, ETC.

LEGEND

- 1000 — TREE TO BE REMOVED
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- TP — TREE PROTECTION FENCE
- EXISTING MATERIAL DEMOLITION / REMOVAL

N

0 15 30 60
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2891
STATE OF TEXAS
10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

TREE PROTECTION & DEMO PLAN

TPD103

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DEMO-TPP-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005

ADD TRAIL CLOSED SIGN AT PARKING AREA

EXISTING CHAINLINK FENCE TO BE REMOVED (207 LF)

EXISTING DECOMPOSED GRANITE TRAIL TO BE REMOVED (493 SF)

NOTE:
EXISTING ELECTRIC SERVICE FOR FIELD LIGHTING PRESENT

NOTE:
REMOVE AREA INLET & 12" OUTFALL PIPE.

MATCH LINE SEE SHEET TPD105

MATCH LINE SEE SHEET TPD103

CONCRETE SIDEWALK

NOTES:

1. PRIOR TO TREE CLEARING/REMOVAL, CONTRACTOR TO MEET WITH OWNER/LANDSCAPE ARCHITECT TO VERIFY TREES TO BE REMOVED. SOME TREES ARE SHOWN TO BE SAVED/REMAIN BUT MAY REQUIRE REMOVAL ONCE SITE LAYOUT AND EARTHWORK OPERATIONS ARE COMPLETE.
2. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED PRIOR TO CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE RE-VEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF ROUND ROCK ORDINANCES.
4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION.
5. MINOR FIELD ADJUSTMENTS TO TREE PROTECTION FENCING MAY BE REQUIRED DURING CONSTRUCTION FOR ADDITIONAL PRESERVATION.
6. REFER TO IRRIGATION SHEETS (L600-L604) FOR DEMO, REMOVAL, CAPPING, ADJUSTMENTS, ETC.

LEGEND

- TREE TO BE REMOVED
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- TP — TREE PROTECTION FENCE
- EXISTING MATERIAL DEMOLITION / REMOVAL

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2995
STATE OF TEXAS

10/17/25

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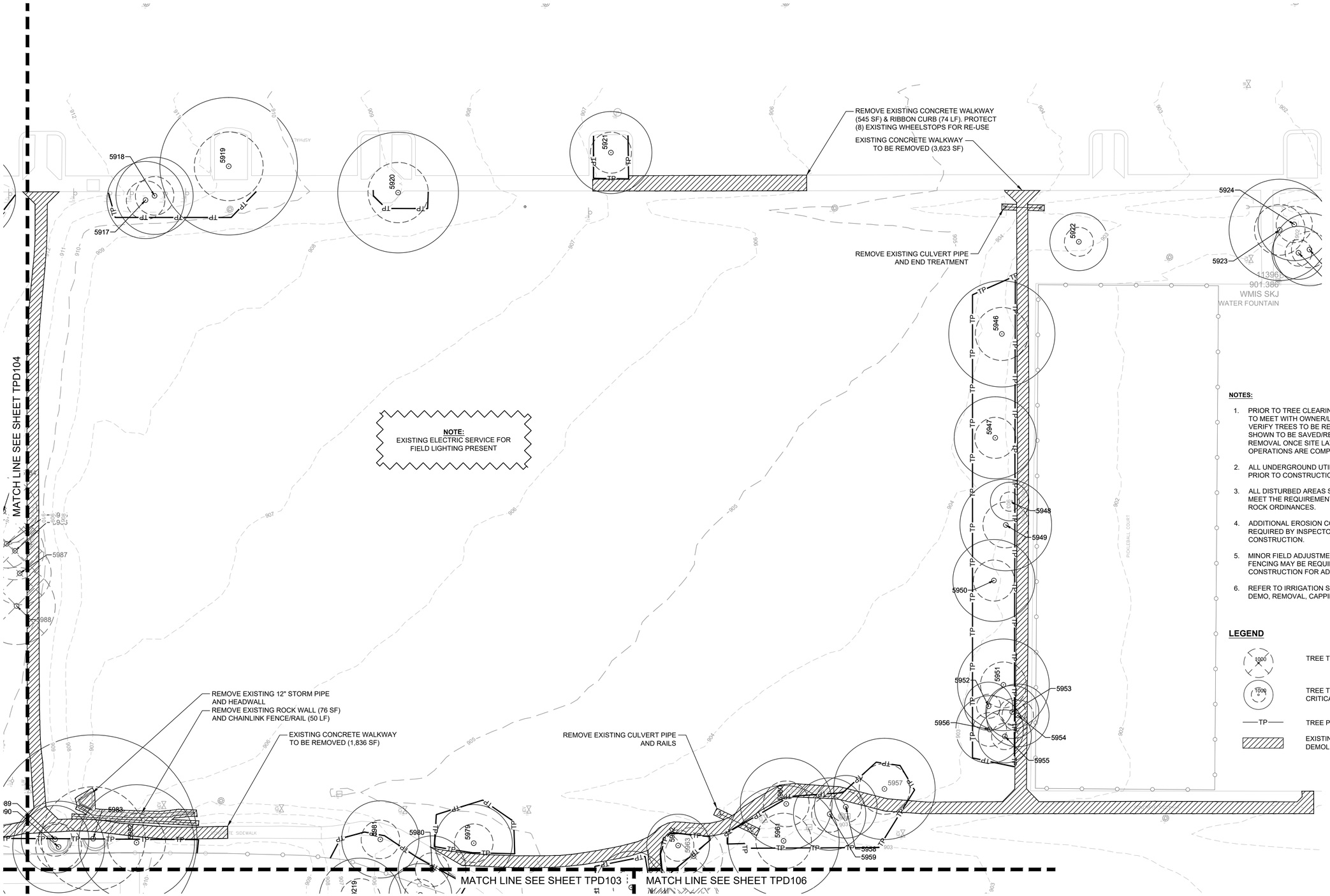
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

TREE PROTECTION & DEMO PLAN

TPD104

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DEMO-TPP-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005



NOTES:

1. PRIOR TO TREE CLEARING/REMOVAL, CONTRACTOR TO MEET WITH OWNER/LANDSCAPE ARCHITECT TO VERIFY TREES TO BE REMOVED. SOME TREES ARE SHOWN TO BE SAVED/REMAIN BUT MAY REQUIRE REMOVAL ONCE SITE LAYOUT AND EARTHWORK OPERATIONS ARE COMPLETE.
2. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED PRIOR TO CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE RE-VEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF ROUND ROCK ORDINANCES.
4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION.
5. MINOR FIELD ADJUSTMENTS TO TREE PROTECTION FENCING MAY BE REQUIRED DURING CONSTRUCTION FOR ADDITIONAL PRESERVATION.
6. REFER TO IRRIGATION SHEETS (L600-L604) FOR DEMO, REMOVAL, CAPPING, ADJUSTMENTS, ETC.

LEGEND

- TREE TO BE REMOVED
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- TP — TREE PROTECTION FENCE
- EXISTING MATERIAL DEMOLITION / REMOVAL

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN S. BINKOWSKI
STATE OF TEXAS
2894
10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

TREE PROTECTION & DEMO PLAN

TPD105

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DEMO-TPP-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005

MATCH LINE SEE SHEET TPD105

MATCH LINE SEE SHEET TPD103

EXISTING CONCRETE WALKWAY TO BE REMOVED (3,623 SF)

EXISTING CHAINLINK FENCE TO BE REMOVED (230 LF)

NOTE:
EXISTING ELECTRIC SERVICE FOR FIELD LIGHTING PRESENT

REMOVE EXISTING CONCRETE TO NEAREST CONCRETE JOINT WHERE NOTED HERE

EXISTING CONCRETE WALKWAY TO BE REMOVED (405 SF)

REMOVE EXISTING CONCRETE TO CONNECTION

EXISTING HEADWALL TO REMAIN

CONCRETE SIDEWALK

ASPHALT

CONCRETE SIDEWALK

TENNIS COURT

NOTES:

1. PRIOR TO TREE CLEARING/REMOVAL, CONTRACTOR TO MEET WITH OWNER/LANDSCAPE ARCHITECT TO VERIFY TREES TO BE REMOVED. SOME TREES ARE SHOWN TO BE SAVED/REMAIN BUT MAY REQUIRE REMOVAL ONCE SITE LAYOUT AND EARTHWORK OPERATIONS ARE COMPLETE.
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4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECTOR AT TIME OF CONSTRUCTION.
5. MINOR FIELD ADJUSTMENTS TO TREE PROTECTION FENCING MAY BE REQUIRED DURING CONSTRUCTION FOR ADDITIONAL PRESERVATION.
6. REFER TO IRRIGATION SHEETS (L600-L604) FOR DEMO, REMOVAL, CAPPING, ADJUSTMENTS, ETC.

LEGEND

- TREE TO BE REMOVED
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- TP — TREE PROTECTION FENCE
- EXISTING MATERIAL DEMOLITION / REMOVAL

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIANNA L. BINKOWSKI
STATE OF TEXAS

10/17/25

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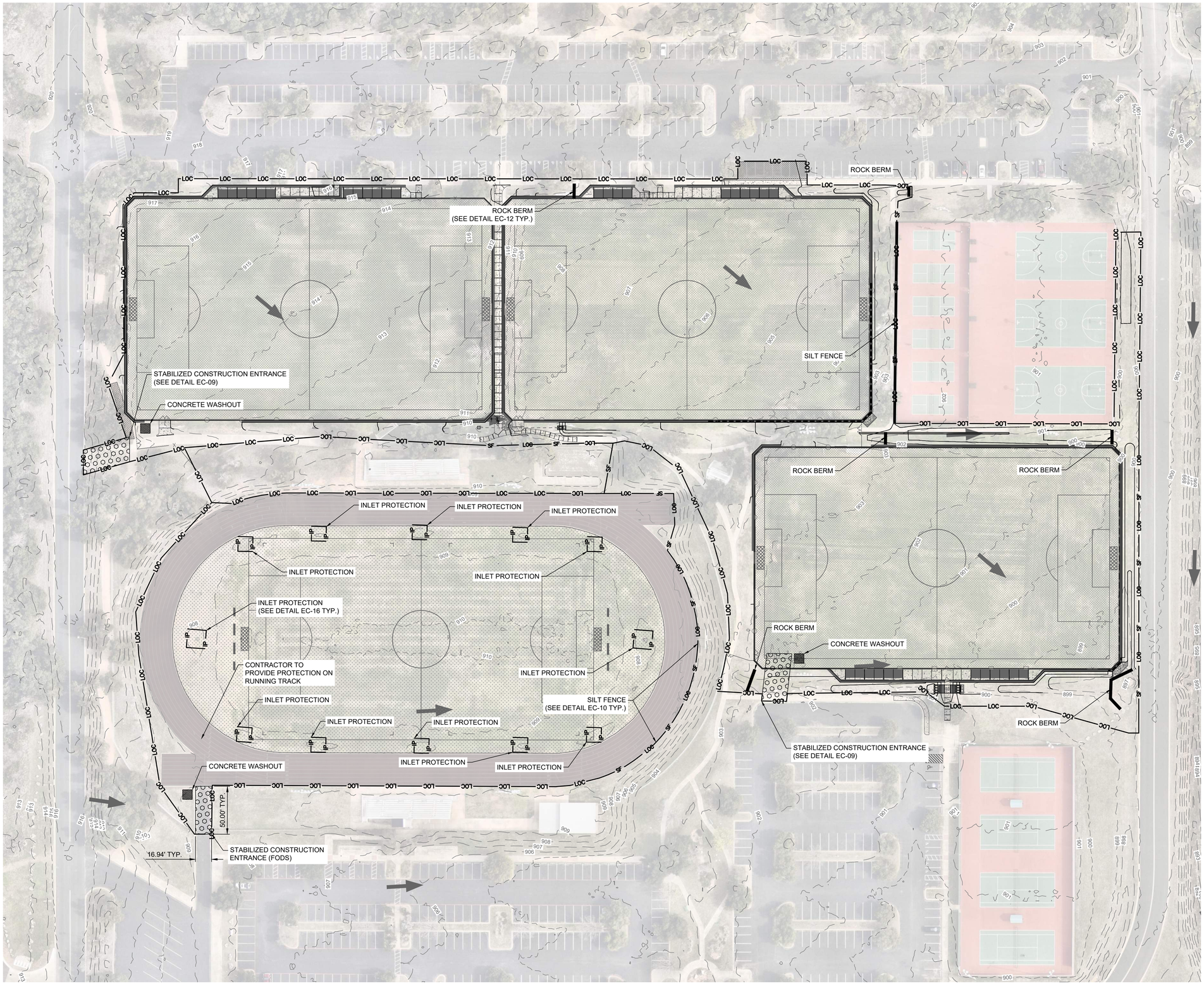
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

TREE PROTECTION & DEMO PLAN

TPD106

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DEMO-TPP-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ali3106 AVO: 31001.005



NOTES:

1. CONTRACTOR TO PROVIDE ACCESS AND TRACK PROTECTION PLAN FOR APPROVAL BY OWNER/DESIGN CONSULTANT PRIOR TO CONSTRUCTION.
2. SEE SHEET C101 FOR EROSION CONTROL DETAILS.
3. CONTRACTOR SHALL USE THE EROSION CONTROL INFRASTRUCTURE SHOWN IN THESE PLANS OR APPROVED EQUAL UPON SUBMITTAL.
4. REFER TO SHEETS TPD100 - TPD106 FOR TREE PROTECTION FENCING AND DETAILS.
5. REFER TO SHEET TPD103 FOR INLETS TO BE REMOVED AND PHASE EROSION CONTROL AS NECESSARY.

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- INLET PROTECTION
- LIMITS OF CONSTRUCTION
- LIMITS OF CONSTRUCTION/ SILT FENCE
- SILT FENCE
- ROCK BERM
- FLOW ARROW
- STABILIZED CONSTRUCTION ENTRANCE

0 25 50 100
SCALE IN FEET

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512)777-4600

REVISION NO.	DATE	DESCRIPTION

STATE OF TEXAS
MARK R. SABELLA
123046
LICENSED
PROFESSIONAL ENGINEER

10/17/2025

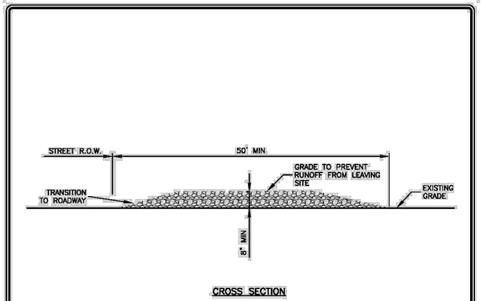
PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE

EROSION CONTROL PLAN

C100

FILE NAME: A:\60000s\60316\001\LDICADD\Sheets\C-PLAN-ERCN-60316.001.dwg DATE: October 14, 2025, TIME: 4:17 PM, USER: ah4144 AVO: 60316.001

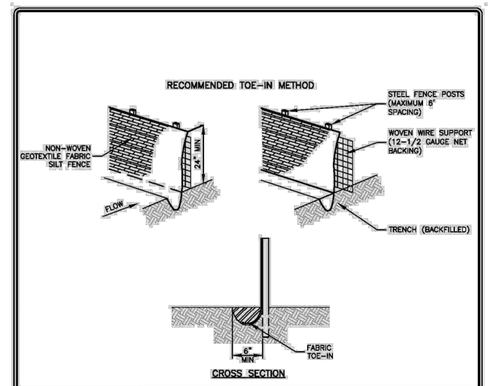


CROSS SECTION

NOTES:

1. STONE SIZE SHALL BE 3" — 8" OPEN GRADED ROCK.
2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
3. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
8. AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-09
APPROVED 03-25-11 DATE	STABILIZED CONSTRUCTION ENTRANCE DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

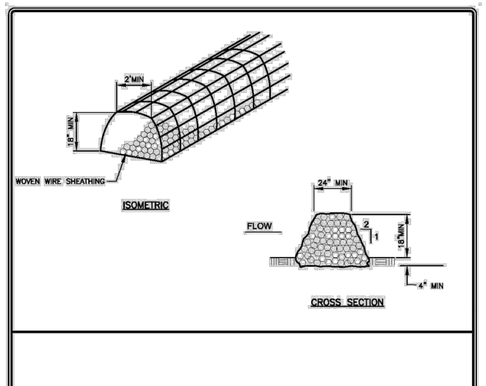


CROSS SECTION

NOTES:

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

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-10
APPROVED 03-25-11 DATE	SILT FENCE DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

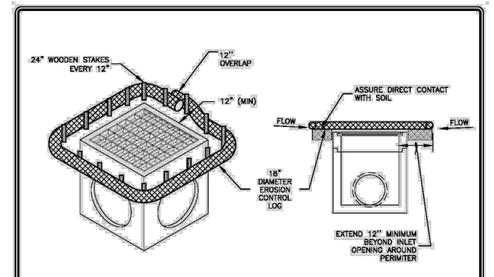


CROSS SECTION

NOTES:

1. USE ONLY OPEN GRADED ROCK (3 to 5") DIAMETER FOR ALL CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1" OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.
3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/ OR FABRIC CORE–WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. IF SEDIMENT REACHES A DEPTH OF 6", THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

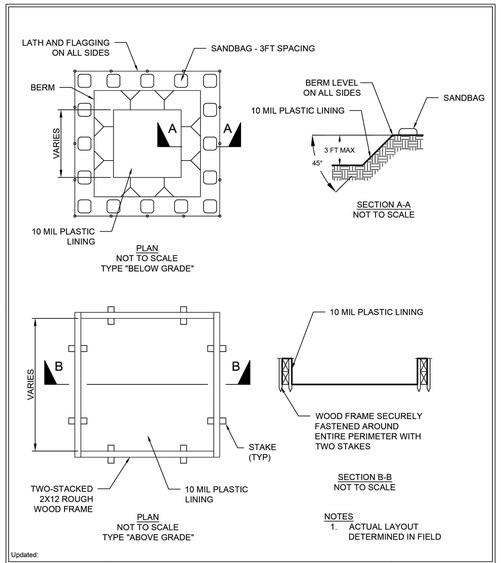
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC–12
APPROVED 03-25-11 DATE	ROCK BERM DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



NOTES:

1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 6".
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC–16
APPROVED 03-25-11 DATE	AREA INLET PROTECTION WITH EROSION CONTROL LOG DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		



NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD

Updated:

Issued:	5/26/2023	CONCRETE WASHOUT	Detail No: 34-03
Scale:	N.T.S.		
Drawn By:	KJB		
Approved By:	JG		
HALFF Office:	AUS		
CONCRETE-WASHOUT			

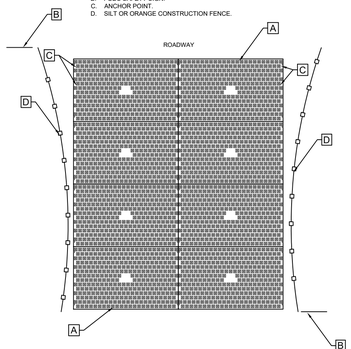
halff
HEB ASPLEY DRV., SUITE 900
TAMPA, FLORIDA 33602
TEL. (813) 620-1600

FODS (FOREIGN OBJECT DEBRIS SYSTEM) TRACKOUT CONTROL SYSTEM INSTALLATION

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOST SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM. (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE.) THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER ANCHORING AND SIGNS PLACED AT THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS.

KEY NOTES:

A. FODS TRACKOUT CONTROL SYSTEM MAT.
B. FODS SAFETY SIGN.
C. ANCHOR POINT.
D. SILT OR ORANGE CONSTRUCTION FENCE.



TYPICAL ENTRANCE LAYOUT

INSTALLATION:

1. THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM IS PLACED SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
2. CALL FOR UTILITY LOCATES 3 BUSINESS DAYS IN ADVANCE OF THE OF FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT 811.
3. ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, OR SUDDEN ABRUPT CHANGES IN ELEVATION.
4. THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE.
8. AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER LOCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION.
9. AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER PLACE, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO THE FIRST MAT.
10. ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS TOGETHER.
11. NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER.
12. UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS.
13. SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE FODS TRACKOUT CONTROL SYSTEM REPEATING THE ABOVE STEPS.

USE AND MAINTENANCE:

1. VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS.
2. DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW S-TURN ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM.
3. MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY.
4. THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT TO PREVENT ICE BUILDUP.

REMOVAL

1. REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS REVERSE ORDER OF INSTALLATION.
2. STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD BE REMOVED FIRST.
3. THE ANCHORS SHOULD BE REMOVED.
4. THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT ALL LOCATIONS IN THE FODS TRACKOUT CONTROL SYSTEM.
5. STARTING WITH THE LAST MAT IN THE SYSTEM, EACH SUCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLIFT OR EXCAVATOR ONTO A TRUCK FOR REMOVAL FROM THE SITE.

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13920 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512)777-4600

REVISION NO.	DATE	DESCRIPTION

STATE OF TEXAS
MARK R. SABELLA
123046
LICENSED
PROFESSIONAL ENGINEER

10/17/2025

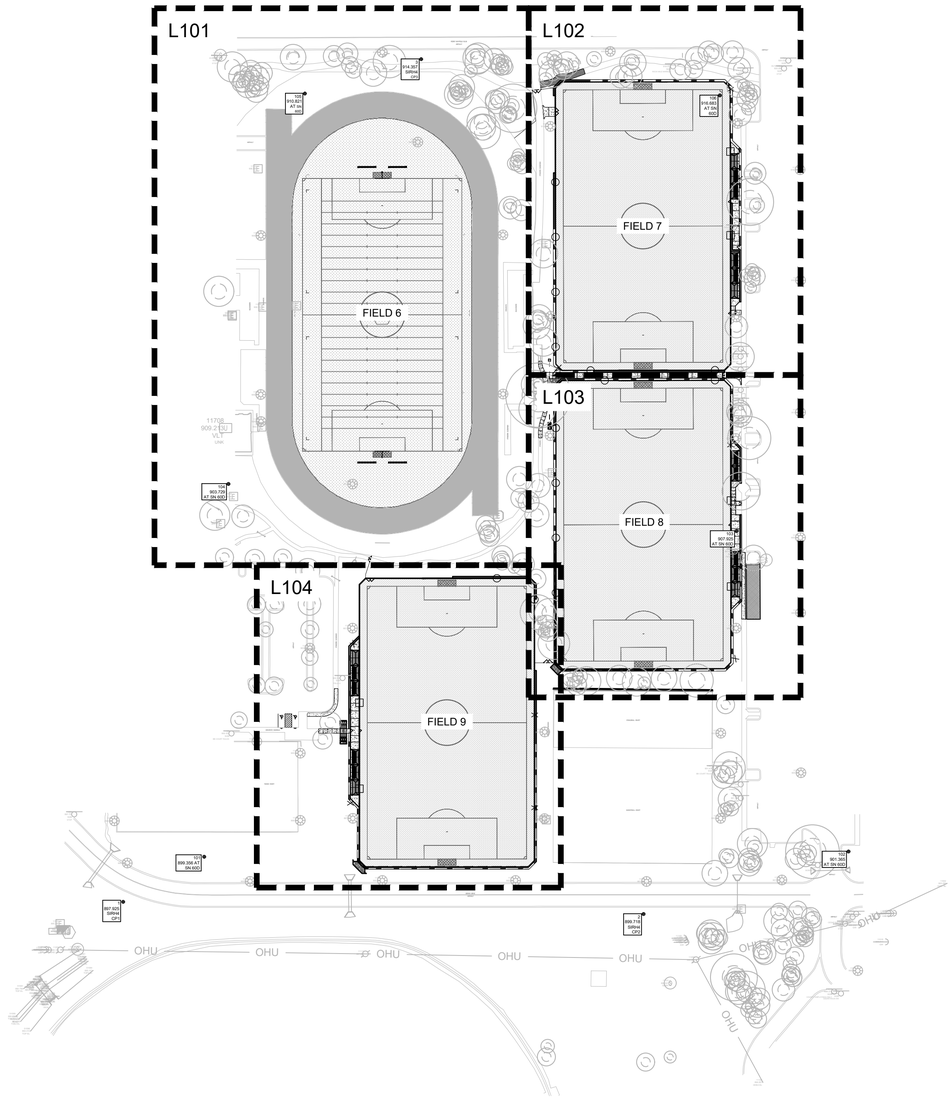
PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE

EROSION CONTROL DETAILS

C101

FILE NAME: A:\60000s\60316\001\LDC\CADD\Sheets\C-PLAN-ERCN-60316.001.dwg DATE: October 14, 2025, TIME: 4:17 PM, USER: ah4144 AVO: 60316.001



SURVEY BENCHMARK INFORMATION

THIS PROJECT IS REFERENCED, FOR ALL BEARING AND COORDINATE BASIS, TO THE TEXAS COORDINATE SYSTEM, CENTRAL ZONE (4203), NORTH AMERICAN DATUM OF 1983 (2011) EPOCH 2010.00, GEOID 18.

ALL COORDINATES SHOWN HEREON ARE SURFACE COORDINATES AND CAN BE ADJUSTED TO GRID BY DIVIDING BY THE SURFACE ADJUSTMENT FACTOR OF 1.00012.

ALL ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 AND WERE DERIVED FROM GPS OBSERVATIONS.

1/2" IRON RODS WITH HALFF CAPS (SIRH4) HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177173.16	3104718.322	897.925
10177157.04	3105405.23	899.718
10178285.43	3105111.62	914.357

SET 60D NAILS HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177232.7	3104825.297	899.356
10177239.59	3105675.752	901.365
10177662.58	3105528.096	907.925
10177724.76	3104857.267	903.729
10178240.06	3104958.156	910.821
10178237.63	3105505.932	916.683

FIELD DIMENSIONS

FIELD 6:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

FOOTBALL (HIGH SCHOOL) - WHITE LINES
- 360 FT. L X 160 FT. W
- 27 FT. RUN-OUT BEHIND END ZONES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- STRIPE **ONLY** (4) CORNERS OF FIELD(S)

FIELDS 7, 8, & 9:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- 200 FT. L X 136 FT. W

NOTES:

1. REFER TO DETAIL SHEETS FOR FULL FIELD LAYOUT
2. FOR ALL FENCING CALLOUTS, REF. TO SHEET L105

LEGEND

PROPERTY LINE

RETAINING WALLS (0 TO 2 FT.) - TYPE 1

RETAINING WALLS (0 TO 4 FT.) - TYPE 1

RETAINING WALLS (4 TO 6 FT.) - TYPE 2

1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

0 50 100 200
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN N. BINKOWSKI
2891
STATE OF TEXAS

10/17/25

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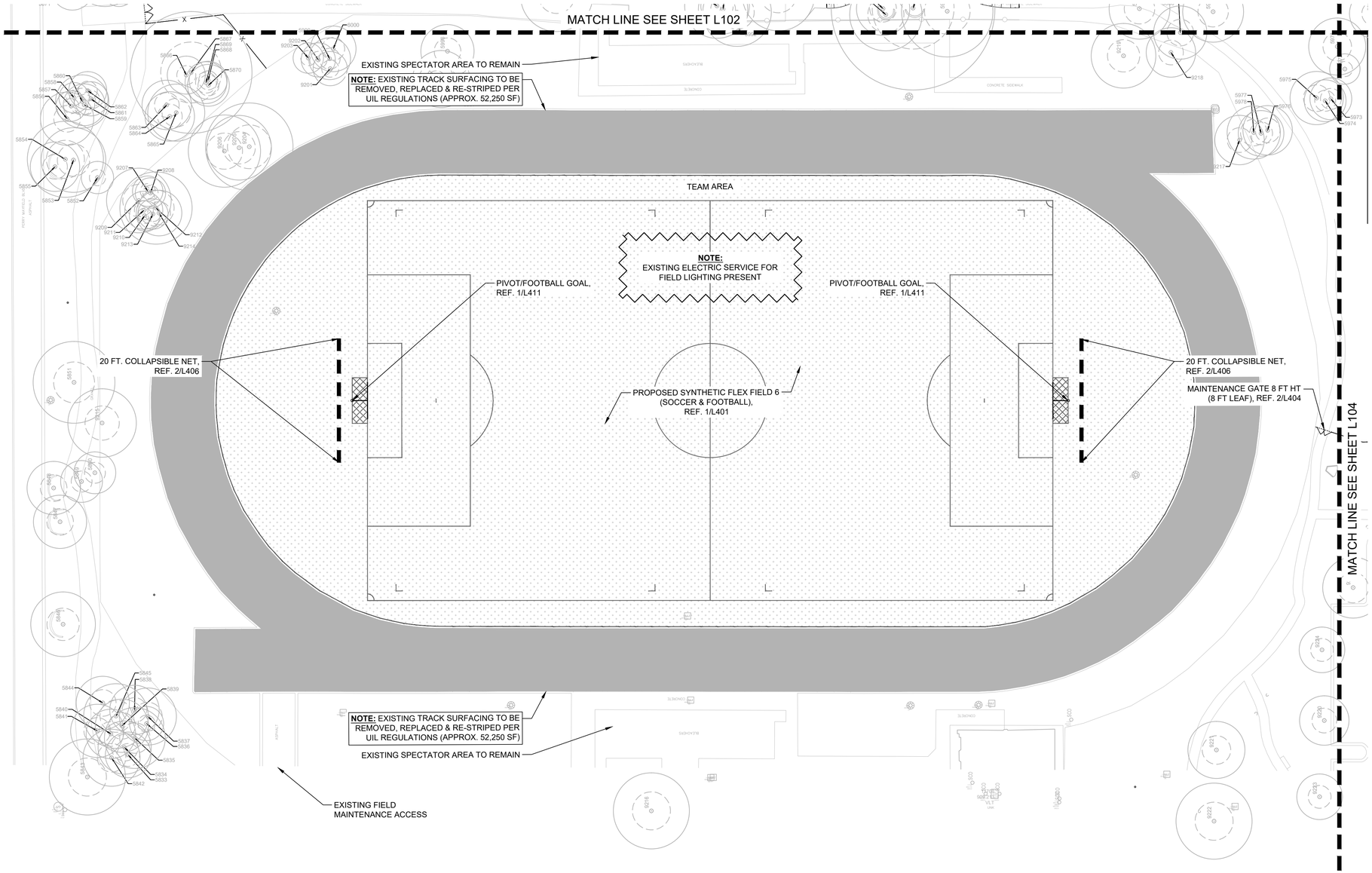
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

OVERALL SITE PLAN

L100

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-SITE-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005



FIELD DIMENSIONS

FIELD 6:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

FOOTBALL (HIGH SCHOOL) - WHITE LINES
- 360 FT. L X 160 FT. W
- 27 FT. RUN-OUT BEHIND END ZONES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- STRIPE **ONLY** (4) CORNERS OF FIELD(S)

FIELDS 7, 8, & 9:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- 200 FT. L X 136 FT. W

NOTES:

1. REFER TO DETAIL SHEETS FOR FULL FIELD LAYOUT
2. FOR ALL FENCING CALLOUTS, REF. TO SHEET L105

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.) - TYPE 1
- RETAINING WALLS (0 TO 4 FT.) - TYPE 1
- RETAINING WALLS (4 TO 6 FT.) - TYPE 2
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

0 15 30 60
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN E. BINKOWSKI
STATE OF TEXAS
10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

SITE PLAN

L101

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-SITE-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005

EXISTING PARKING LOT

TIE-IN PROPOSED CONCRETE TO EXISTING WALKWAY

8 FT HT (4FT LEAF) CHAINLINK GATE, REF. 3/L404

TIE-IN PROPOSED CONCRETE TO EXISTING WALKWAY

8 FT HT (4FT LEAF) CHAINLINK GATE, REF. 3/L404

TIE-IN PROPOSED CONCRETE TO EXISTING WALKWAY

EXISTING SIDEWALK TO REMAIN

SPECTATOR AREA (TYPICAL PER TEAM): FABRIC SHADE- CANTILEVER (3)10'X20'- 60' OVERALL, REF. 1/L409

MOVABLE BLEACHER (2) 15' THREE-ROW - 30 SEAT, REF. AMENITY TABLE

3 FT HT (4FT LEAF) CHAINLINK GATE, REF. 2/L403

CONCRETE WALKWAY, REF. 1/L402

QUARRY BLOCK RETAINING WALL, REF STRUCTURAL

RIBBON CURB - PERIMETER FIELD (TYP.), REF. 3/L402

SPECTATOR AREA (TYPICAL PER TEAM): FABRIC SHADE- CANTILEVER (3)10'X20'- 60' OVERALL, REF. REF. 1/L409

MOVABLE BLEACHER (2) 15' THREE-ROW - 30 SEAT, REF. AMENITY TABLE

QUARRY BLOCK RETAINING WALL, REF STRUCTURAL

NOTE:
EXISTING ELECTRIC SERVICE FOR FIELD LIGHTING PRESENT

PROPOSED SYNTHETIC FLEX FIELD 7 (SOCCER), REF. 1/L401

MATCH LINE SEE SHEET L103

QUARRY BLOCK RETAINING WALL, REF STRUCTURAL

DECOMPOSED GRANITE TRAIL - TIE INTO EXISTING & REPLACE REMOVED SECTION, REF. 5/L402

MAINTENANCE GATE 8 FT HT (12 FT LEAF), REF. 2/L404

MAINTENANCE GATE 4 FT HT (12 FT LEAF), REF. 4/L403

RIBBON CURB - PERIMETER FIELD (TYP.), REF. 3/L402

CONCRETE WALKWAY, REF. 1/L402

TEAM AREA

TIE-IN PROPOSED CONCRETE TO EXISTING WALKWAY

DECOMPOSED GRANITE TRAIL - TIE INTO EXISTING CONCRETE

EXISTING FIRE HYDRANT, VALVES AND WATER MAIN TO REMAIN. CONTRACTOR TO VERIFY LOCATION AND DEPTH

OUTFALL PIPES, REF. DRAINAGE SHEETS

3'x3' AREA INLET / W/ HEEL PROOF GRATE, REF. DRAINAGE SHEET L202B

TIE INTO EXISTING CONCRETE SIDEWALK

MATCH LINE SEE SHEET L101

FIELD DIMENSIONS

FIELD 6:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

FOOTBALL (HIGH SCHOOL) - WHITE LINES
- 360 FT. L X 160 FT. W
- 27 FT. RUN-OUT BEHIND END ZONES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- STRIPE **ONLY** (4) CORNERS OF FIELD(S)

FIELDS 7, 8, & 9:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- 200 FT. L X 136 FT. W

NOTES:

1. REFER TO DETAIL SHEETS FOR FULL FIELD LAYOUT
2. FOR ALL FENCING CALLOUTS, REF. TO SHEET L105

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.) - TYPE 1
- RETAINING WALLS (0 TO 4 FT.) - TYPE 1
- RETAINING WALLS (4 TO 6 FT.) - TYPE 2
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN E. BINKOWSKI
2895
STATE OF TEXAS
10/17/25

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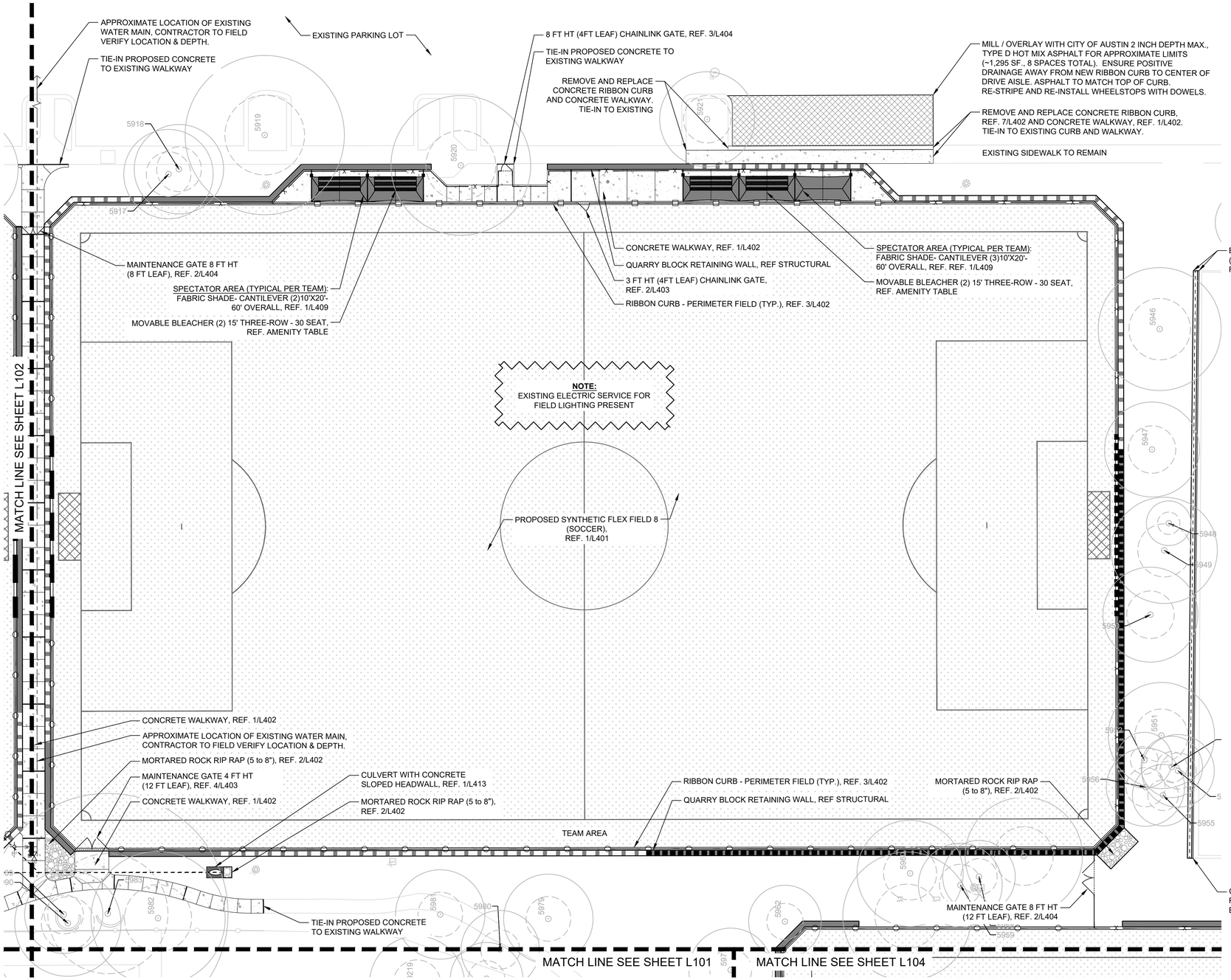
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

SITE PLAN

L102

FILE NAME: A:\60000s\60316\001\LACADD\Sheets\L-PLAN-SITE-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005



FIELD DIMENSIONS

FIELD 6:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

FOOTBALL (HIGH SCHOOL) - WHITE LINES
- 360 FT. L X 160 FT. W
- 27 FT. RUN-OUT BEHIND END ZONES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- STRIPE **ONLY** (4) CORNERS OF FIELD(S)

FIELDS 7, 8, & 9:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- 200 FT. L X 136 FT. W

NOTES:

1. REFER TO DETAIL SHEETS FOR FULL FIELD LAYOUT
2. FOR ALL FENCING CALLOUTS, REF. TO SHEET L105

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.) - TYPE 1
- RETAINING WALLS (0 TO 4 FT.) - TYPE 1
- RETAINING WALLS (4 TO 6 FT.) - TYPE 2
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT — BRIAN K. BINKOWSKI — 2947 — STATE OF TEXAS

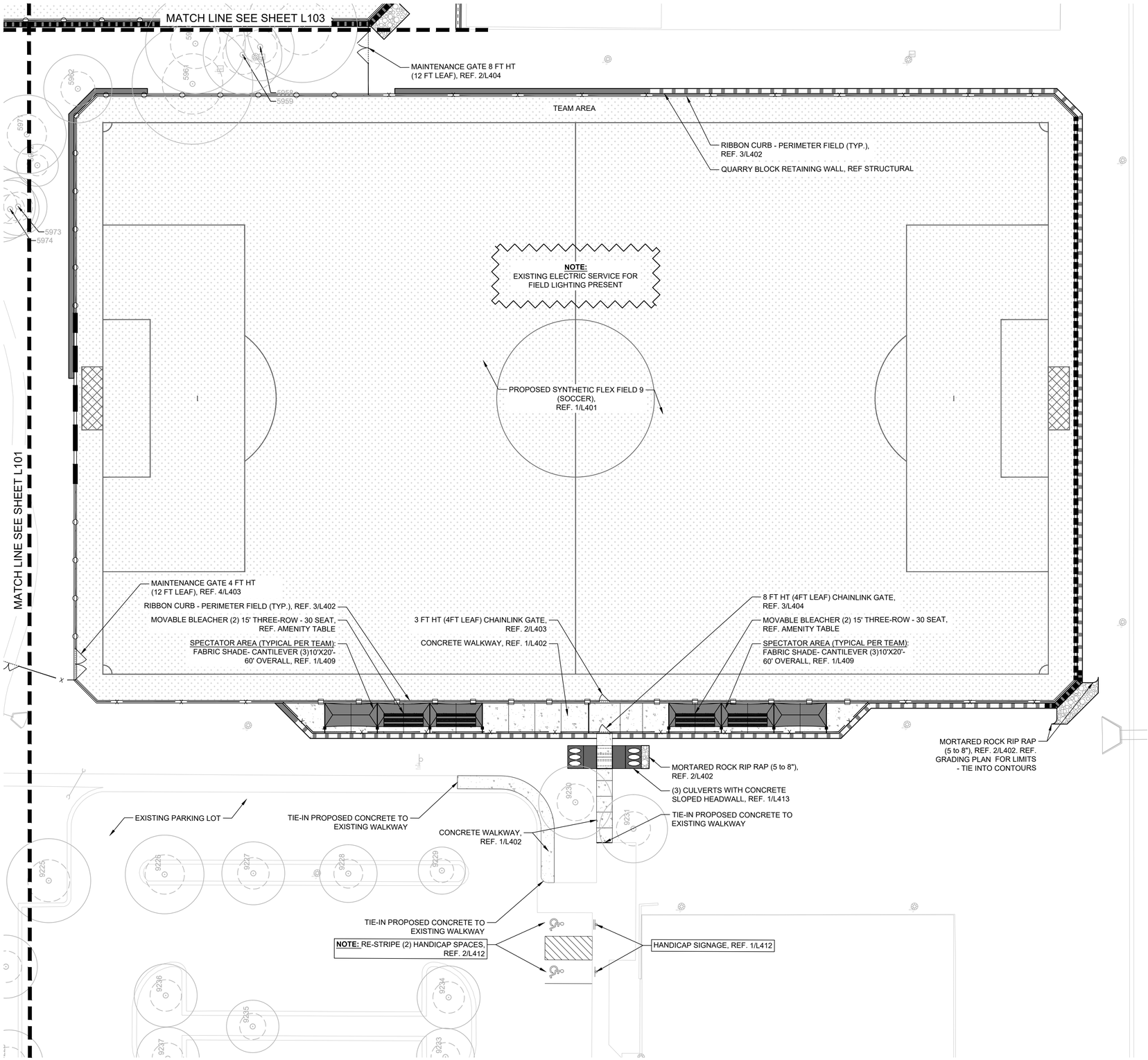
10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN
SHEET TITLE	SITE PLAN

L103

FILE NAME: A:\60000s\60316\001\LACADD\Sheets\L-PLAN-SITE-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005



FIELD DIMENSIONS

FIELD 6:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

FOOTBALL (HIGH SCHOOL) - WHITE LINES
- 360 FT. L X 160 FT. W
- 27 FT. RUN-OUT BEHIND END ZONES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- STRIPE **ONLY** (4) CORNERS OF FIELD(S)

FIELDS 7, 8, & 9:

SOCCER (FIFA & US SOCCER) 11 v 11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- 200 FT. L X 136 FT. W

NOTES:

1. REFER TO DETAIL SHEETS FOR FULL FIELD LAYOUT
2. FOR ALL FENCING CALLOUTS, REF. TO SHEET L105

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.) - TYPE 1
- RETAINING WALLS (0 TO 4 FT.) - TYPE 1
- RETAINING WALLS (4 TO 6 FT.) - TYPE 2
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6947
STATE OF TEXAS

10/17/25

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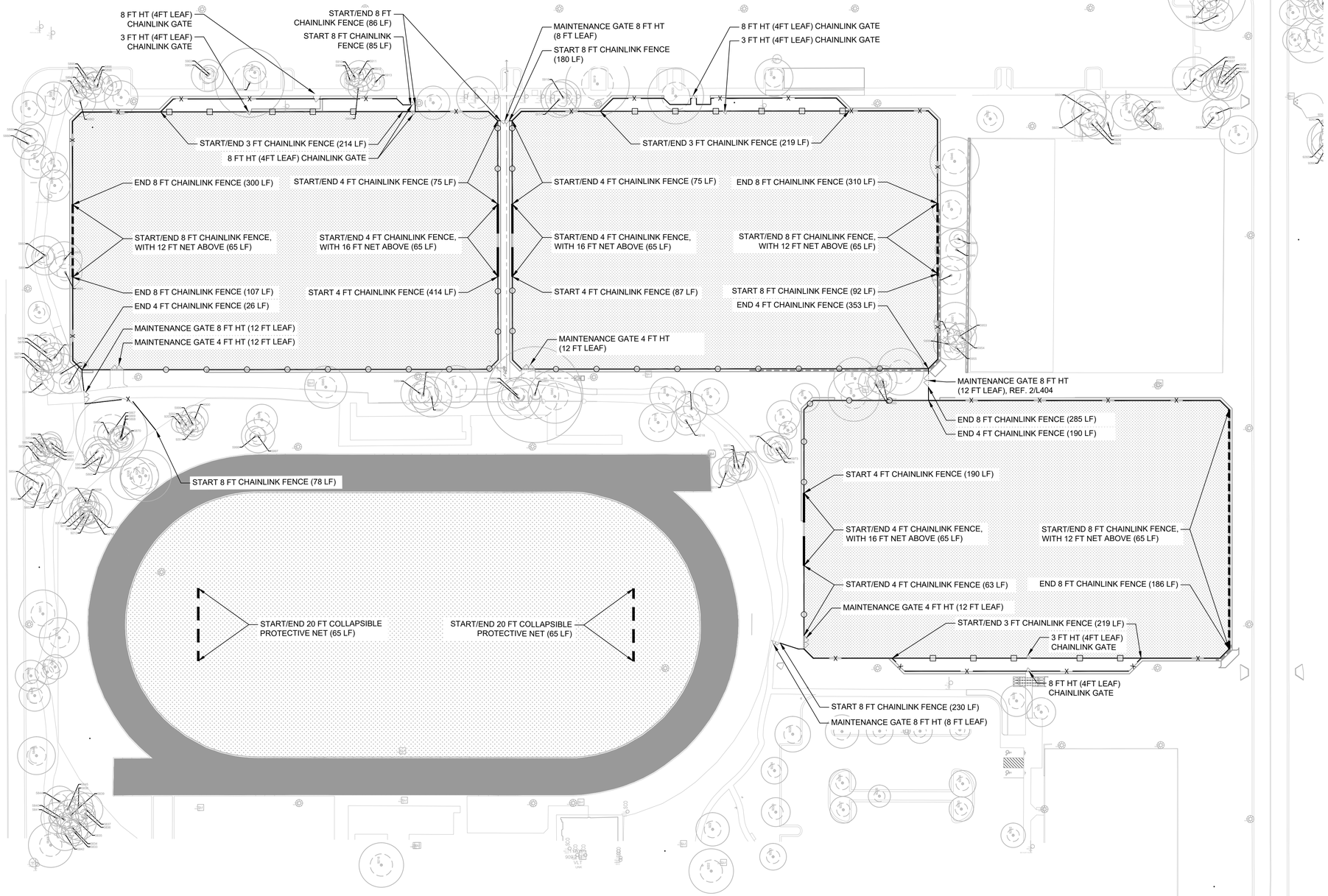
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

SITE PLAN

L104

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-SITE-60316.001.dwg DATE: October 16, 2025, TIME: 9:39 AM, USER: ah3106 AVO: 31001.005



FENCE TYPE LEGEND

- 3 FT. CHAINLINK FENCE - REF. 1/L403
- 4 FT. CHAINLINK FENCE - REF. 3/L403
- 8 FT. CHAINLINK FENCE - REF. 1/L404
- 4 FT. CHAINLINK FENCE + 16 FT. PROTECTIVE NETTING - REF. 1/L405
- 8 FT. CHAINLINK FENCE + 12 FT. PROTECTIVE NETTING - REF. 1/L406
- 20 FT. PROTECTIVE NETTING - REF. 2/L406

NOTES:

1. FOR ALL GATES & RIBBON CURB CALLOUTS, REF. TO SITE PLAN SHEETS L101 - L104

LEGEND

PROPERTY LINE

0 25 50 100
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

halff
13620 BRUARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6895
STATE OF TEXAS
10/17/25

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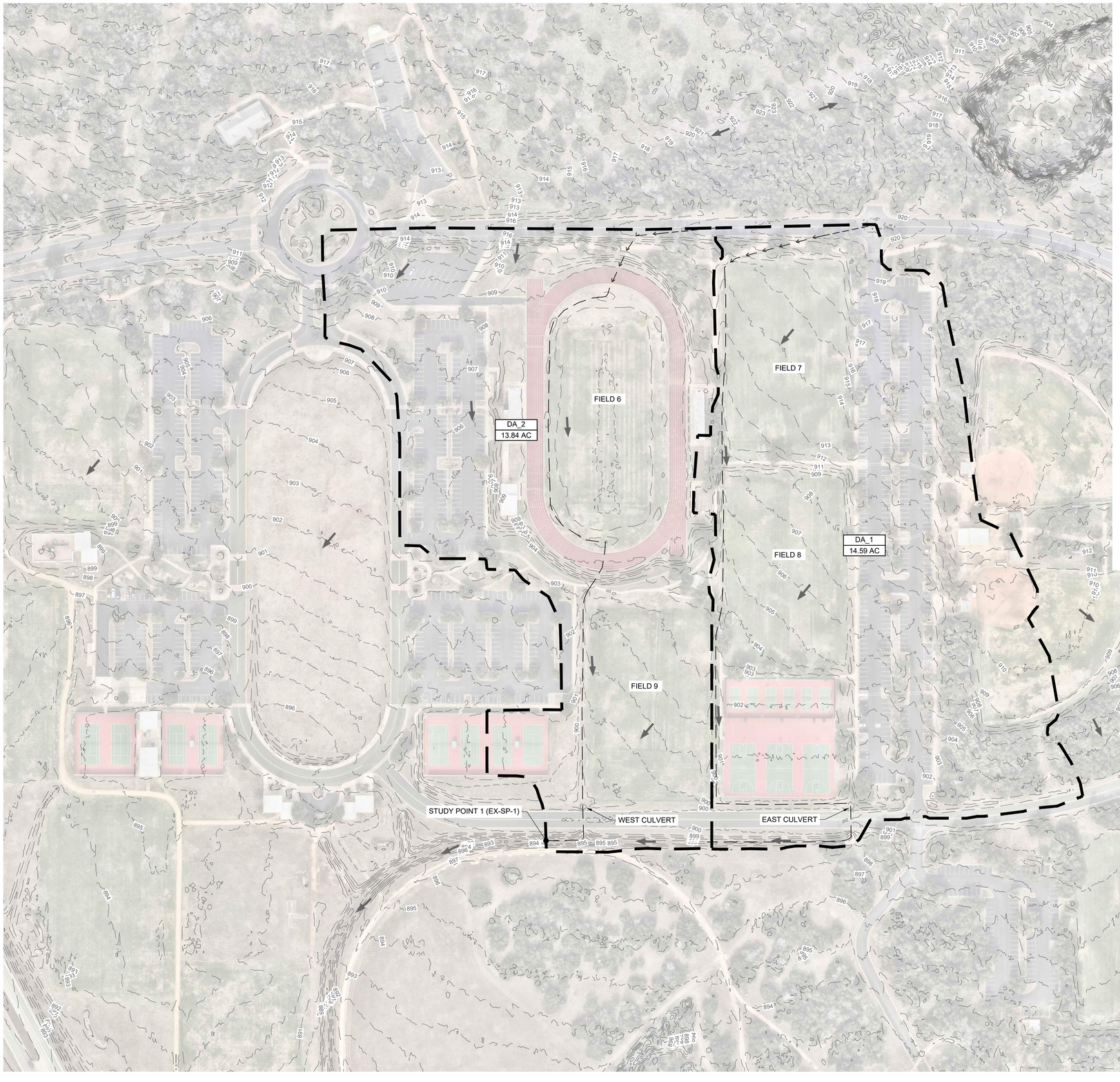
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

SITE PLAN - FIELD FENCING

L105

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-SITE-60316.001.dwg DATE: October 16, 2025, TIME: 9:40 AM, USER: ah3106 AVO: 31001.005



Existing Time of Concentration Table				
	1		Asphalt	Asphalt
n	Manning's roughness coefficient (table 3-1)	n/a	0.011	0.011
L	flow length	ft	100	100
P2	2-year, 24-hour rainfall	in	4.06	4.06
s	slope of hydraulic grade line (land slope)	ft/ft	0.006	0.009
Tt	travel time	hr	0.029	0.025
L	flow length	ft	221.4	411.0
s	slope of hydraulic grade line (watercourse slope)	ft/ft	0.029	0.026
n/a	surface (Unpaved, Paved)	n/a	Unpaved	Unpaved
V	average velocity	ft/s	2.77	2.59
Tt	travel time	hr	0.022	0.044
L	flow length	ft		445.4
s	slope of hydraulic grade line (watercourse slope)	ft/ft		0.010
n/a	surface (Unpaved, Paved)	n/a		Paved
V	average velocity	ft/s		2.02
Tt	travel time	hr		0.061
L	flow length	ft	1330.1	751.0
a	cross sectional flow area	ft2	12.03	14.57
pw	wetted perimeter	ft	28.82	25.64
r	hydraulic radius = a/pw	ft	0.42	0.57
s	slope of hydraulic grade line (channel slope)	ft/ft	0.013	0.013
n	Manning's roughness coefficient for open channel flow	n/a	0.055	0.055
V	average velocity	ft/s	1.72	2.14
Tt	travel time	hr	0.215	0.098
L	flow length	ft	277.8	
a	cross sectional flow area	ft2	17.28	
pw	wetted perimeter	ft	16.51	
r	hydraulic radius = a/pw	ft	1.05	
s	slope of hydraulic grade line (channel slope)	ft/ft	0.004	
n	Manning's roughness coefficient for open channel flow	n/a	0.055	
V	average velocity	ft/s	1.72	
Tt	travel time	hr	0.045	
		hr	0.31	0.23
		min	**18.66**	**13.70**
		min	**11.19**	**8.22**

Drainage Area Characteristics						
	Impervious Area		Pervious Area		Total	Total
ID	Area	CN	Soil D		Area	CN
[-]	[ac]	[-]	Area	CN	[ac]	[-]
DA_1	4.55	98	10.04	80	14.59	86
DA_2	4.85	98	8.99	80	13.84	86

EXISTING DRAINAGE AREA MAP SUMMARY								
ID	AREA	CN	IC (%)	TC	Q25	Q50	Q100	NOTES
[-]	[AC]	[-]	[-]	[MIN]	[CFS]	[CFS]	[CFS]	[-]
DA_1	14.59	86	31.2%	18.66	85.2	98.7	112.5	DRAINS TO STUDY POINT 1
DA_2	13.84	86	35.1%	9.15	97.6	112.9	128.4	DRAINS TO STUDY POINT 1
EX-SP-1	-	-	-	-	**179.9**	**208.5**	**237.6**	

NOTES:

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2. THE SCS 24-HOUR STORM WAS UTILIZED USING PRECIPITATION VALUES FROM NOAA ATLAS 14 WITH THE HEC-HMS FREQUENCY STORM.
3. COMPOSITE RUNOFF CURVE NUMBERS (CNs) FOR EXISTING DRAINAGE AREAS WERE COMPUTED USING THE AREA WEIGHTING FORMULA GIVEN A HYDROLOGIC SOIL GROUP 'D'.
   3.1. GRASSLAND, GOOD - 80
   3.2. ROOF/PAVEMENT - 98
4. TIME OF CONCENTRATIONS WERE DERIVED USING THE TR-55 METHOD. A MINIMUM TIME OF CONCENTRATION OF 5 MINUTES WAS USED.

LEGEND

- PROPERTY LINE
- XXX EXISTING CONTOUR
- DRAINAGE AREA BOUNDARY
- TC SHEET FLOW
- TC SHALLOW CONCENTRATED FLOW
- TC CHANNEL FLOW
- FLOW ARROW

0 50 100 200
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512)777-4600

REVISION

NO.	DATE	DESCRIPTION

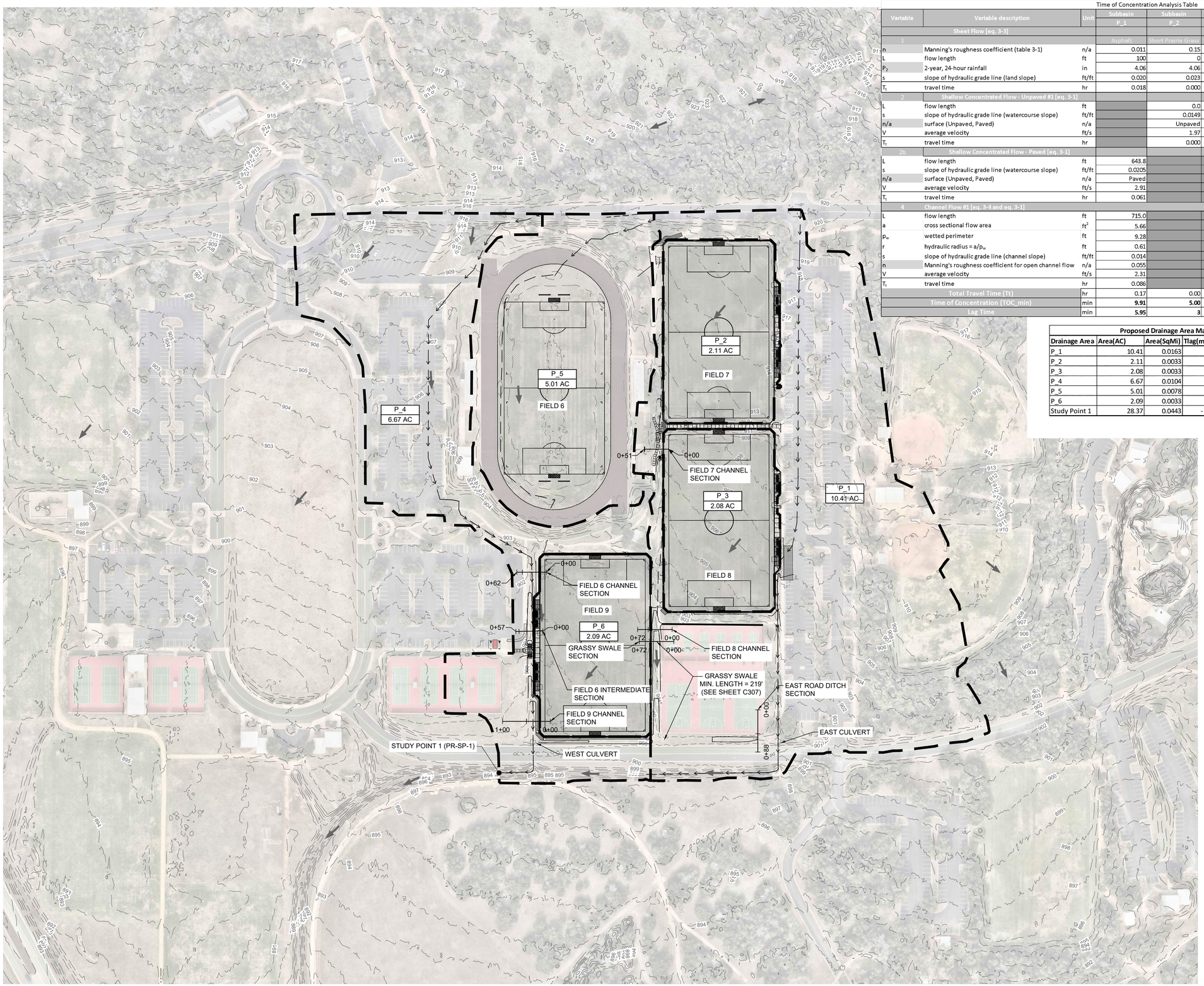
STATE OF TEXAS
MARK R. SABELLA
123046
LICENSED
PROFESSIONAL ENGINEER
10/17/2025

PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE
EXISTING DRAINAGE AREA MAP

C301

FILE NAME: A:\60000s\60316\001\LDC\ADD\Sheets\C-PLAN-DAME-60316.001.dwg DATE: October 14, 2025, TIME: 4:18 PM, USER: ah144 AVO: 60316.001



Time of Concentration Analysis Table

Variable	Variable description	Unit	Subbasin P_1	Subbasin P_2	Subbasin P_3	Subbasin P_4	Subbasin P_5	Subbasin P_6
Sheet Flow (eq. 3-3)								
1			Asphalt	Short Prairie Grass	Short Prairie Grass	Asphalt	Short Prairie Grass	Short Prairie Grass
n	Manning's roughness coefficient (table 3-1)	n/a	0.011	0.15	0.15	0.011	0.15	0.15
L	flow length	ft	100	0	0	100	100	0
P_2	2-year, 24-hour rainfall	in	4.06	4.06	4.06	4.06	4.06	4.06
s	slope of hydraulic grade line (land slope)	ft/ft	0.020	0.023	0.034	0.062	0.043	0.015
T_t	travel time	hr	0.018	0.000	0.000	0.011	0.107	0.000
2	Shallow Concentrated Flow - Unpaved #1 (eq. 3-1)							
L	flow length	ft		0.0	0.0	190.6	147.8	0.0
s	slope of hydraulic grade line (watercourse slope)	ft/ft		0.0149	0.0132	0.018	0.051	0.012
n/a	surface (Unpaved, Paved)	n/a		Unpaved	Unpaved	Unpaved	Unpaved	Unpaved
V	average velocity	ft/s		1.97	1.85	2.17	3.66	1.79
T_t	travel time	hr		0.000	0.000	0.024	0.011	0.000
2b	Shallow Concentrated Flow - Paved (eq. 3-1)							
L	flow length	ft	643.8			445.2		
s	slope of hydraulic grade line (watercourse slope)	ft/ft	0.0205			0.0097		
n/a	surface (Unpaved, Paved)	n/a	Paved			Paved		
V	average velocity	ft/s	2.91			2.00		
T_t	travel time	hr	0.061			0.062		
4	Channel Flow #1 (eq. 3-4 and eq. 3-1)							
L	flow length	ft	715.0			747.6		
a	cross sectional flow area	ft^2	5.66			14.57		
P_w	wetted perimeter	ft	9.28			25.64		
r	hydraulic radius = a/P_w	ft	0.61			0.57		
s	slope of hydraulic grade line (channel slope)	ft/ft	0.014			0.013		
n	Manning's roughness coefficient for open channel flow	n/a	0.055			0.055		
V	average velocity	ft/s	2.31			2.15		
T_t	travel time	hr	0.086			0.097		
Total Travel Time (Tt)		hr	0.17	0.00	0.00	0.19	0.12	0.00
Time of Concentration (TOC_min)		min	**9.91**	**5.00**	**5.00**	**11.66**	**7.08**	**5.00**
Lag Time		min	**5.95**	**3**	**3**	**6.99**	**4.25**	**3**

Proposed Drainage Area Map Summary						Flow (cfs)		
Drainage Area	Area(AC)	Area(SqMi)	Tlag(min)	CN	Impervious (%)	25-yr	50-yr	100-yr
P_1	10.41	0.0163	5.95	86	44.5	74	85.5	97.1
P_2	2.11	0.0033	3	86	100	19.7	22.5	25.3
P_3	2.08	0.0033	3	86	100	19.5	22.3	25
P_4	6.67	0.0104	8.21	86	49.6	44.4	51.3	58.3
P_5	5.01	0.0078	4.25	86	79.3	40.2	46	52
P_6	2.09	0.0033	3	86	100	19.5	22.3	25
Study Point 1	28.37	0.0443	-	-	-	165.7	185.9	206.1

STUDY POINT SUMMARY			
ID	Q25	Q50	Q100
[-]	[CFS]	[CFS]	[CFS]
EX-SP-1	179.9	208.5	237.6
PR-SP-1	181.3	205.0	226.2

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4. PER WILLIAMSON COUNTY DESIGN CRITERIA MANUAL, RUNOFF CURVE NUMBERS SHALL REMAIN THE SAME BETWEEN EXISTING AND PROPOSED CONDITIONS AND THE EXISTING AND PROPOSED PERCENTAGE OF IMPERVIOUS COVER SHALL BE INPUT INDIVIDUALLY FOR EACH CONDITION.
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LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (XXX)
- PROPOSED CONTOUR
- DRAINAGE AREA BOUNDARY
- TC SHEET FLOW
- TC SHALLOW CONCENTRATED FLOW
- TC CHANNEL FLOW
- FLOW ARROW

0 50 100 200
SCALE IN FEET

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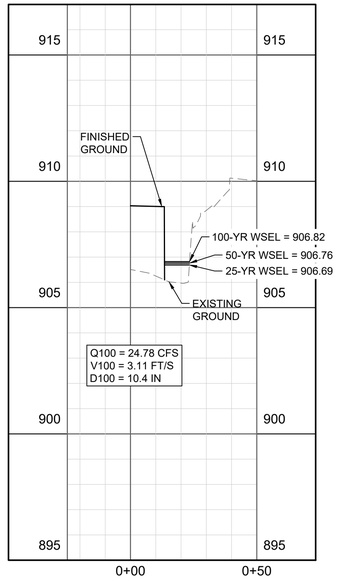
PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE
PROPOSED DRAINAGE AREA MAP

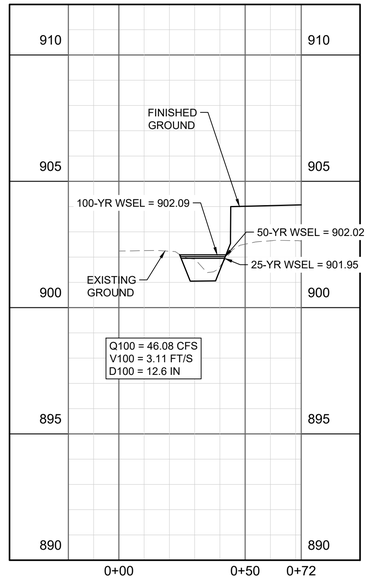
C302

FILE NAME: A:\60000s\60316\001\LD\CADD\Sheets\C-PLAN-DAMP-60316.001.dwg DATE: October 14, 2025, TIME: 4:18 PM, USER: ah4144 AVO: 60316.001

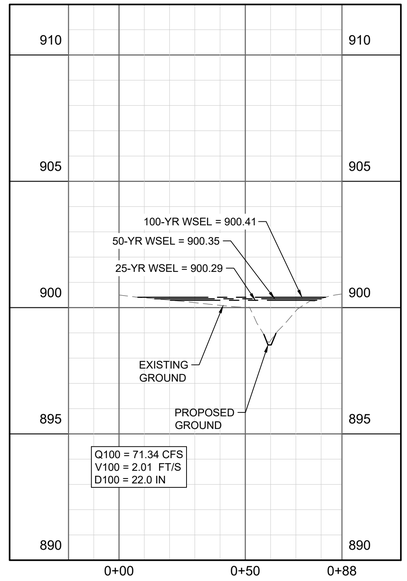
FIELD 7 CHANNEL SECTION
H: 1" = 30'
V: 1" = 3'



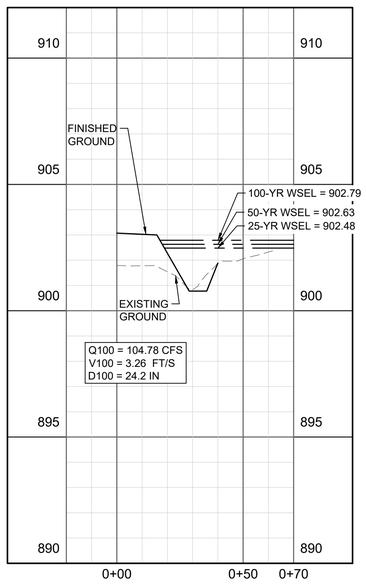
FIELD 8 CHANNEL SECTION
H: 1" = 30'
V: 1" = 3'



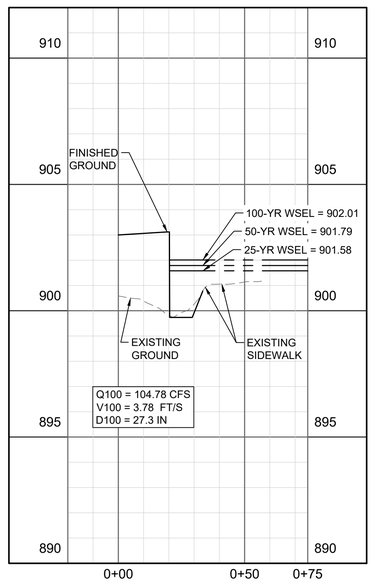
EAST ROAD DITCH
H: 1" = 30'
V: 1" = 3'



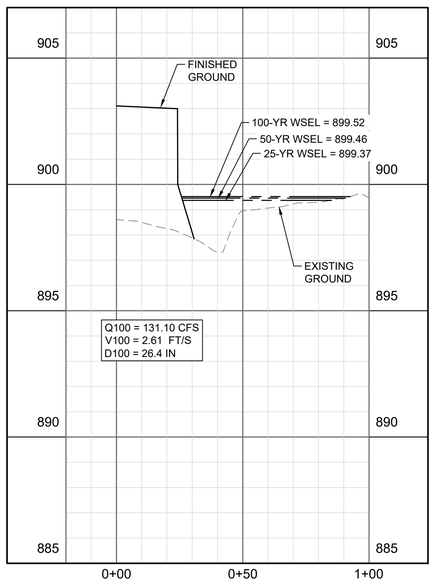
FIELD 6 CHANNEL SECTION
H: 1" = 30'
V: 1" = 3'



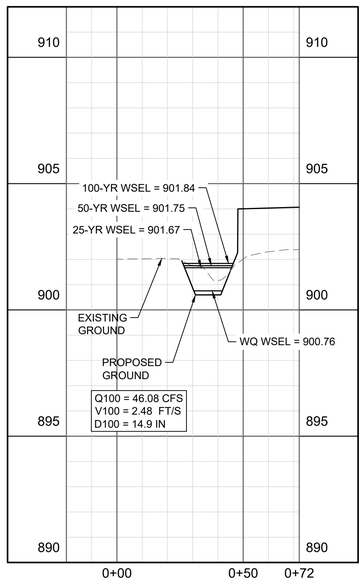
FIELD 6 INTERMEDIATE CS
H: 1" = 30'
V: 1" = 3'



FIELD 9 CHANNEL SECTION
H: 1" = 30'
V: 1" = 3'



GRASSY SWALE
H: 1" = 30'
V: 1" = 3'



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PROFESSIONAL ENGINEER

10/17/2025

PROJECT NO.:	60316.001
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DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE
PROPOSED CHANNEL SECTIONS

C303

FILE NAME: A:\60000s\60316\001\LDI\CADD\Sheets\C-PLAN-DAMP-60316.001.dwg DATE: October 14, 2025, TIME: 4:18 PM, USER: ahr144 AVO: 60316.001

Worksheet for FIELD 7 CHANNEL SECTION

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.021 ft/ft
Discharge	24.78 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	909.03
0+12	909.00
0+13	909.00
0+13	906.10
0+15	906.05
0+15	906.02
0+18	905.99
0+21	905.95
0+23	906.00
0+23	906.01
0+23	906.01
0+24	907.11
0+25	908.44
0+25	908.34
0+25	908.14
0+25	908.22
0+26	908.24
0+26	908.37
0+28	908.61
0+28	908.71
0+28	908.78
0+29	908.80
0+33	909.07
0+33	909.04
0+33	908.98
0+38	909.54
0+39	909.67
0+39	909.72
0+39	909.93
0+39	910.13
0+51	910.01

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 909.03)	(0+51, 910.01)	0.055

Worksheet for FIELD 7 CHANNEL SECTION

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	10.4 in
Roughness Coefficient	0.055
Elevation	906.82 ft
Elevation Range	906.0 to 910.1 ft
Flow Area	8.0 ft²
Wetted Perimeter	11.1 ft
Hydraulic Radius	8.6 in
Top Width	9.92 ft
Normal Depth	10.4 in
Critical Depth	7.7 in
Critical Slope	0.059 ft/ft
Velocity	3.11 ft/s
Velocity Head	0.15 ft
Specific Energy	1.02 ft
Froude Number	0.612
Flow Type	Subcritical

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	10.4 in
Critical Depth	7.7 in
Channel Slope	0.021 ft/ft
Critical Slope	0.059 ft/ft

Worksheet for FIELD 8 WQ CHANNEL SECTION

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.018 ft/ft
Discharge	46.08 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	902.24
0+00	902.24
0+07	902.25
0+08	902.25
0+14	902.26
0+15	902.26
0+21	902.22
0+22	902.22
0+22	902.21
0+24	902.10
0+28	901.11
0+28	901.05
0+28	901.05
0+33	901.05
0+38	901.06
0+38	901.06
0+39	901.12
0+44	902.54
0+44	902.79
0+44	903.38
0+44	904.00
0+44	904.00
0+45	904.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 902.24)	(0+45, 904.00)	0.055

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Worksheet for FIELD 8 WQ CHANNEL SECTION

Results	
Normal Depth	12.6 in
Roughness Coefficient	0.055
Elevation	902.09 ft
Elevation Range	901.0 to 904.0 ft
Flow Area	14.8 ft²
Wetted Perimeter	18.6 ft
Hydraulic Radius	9.5 in
Top Width	18.38 ft
Normal Depth	12.6 in
Critical Depth	9.4 in
Critical Slope	0.052 ft/ft
Velocity	3.11 ft/s
Velocity Head	0.15 ft
Specific Energy	1.20 ft
Froude Number	0.611
Flow Type	Subcritical

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	12.6 in
Critical Depth	9.4 in
Channel Slope	0.018 ft/ft
Critical Slope	0.052 ft/ft

Worksheet for EAST ROAD DITCH

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.016 ft/ft
Discharge	71.34 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	900.50
0+01	900.49
0+07	900.42
0+13	900.36
0+15	900.35
0+17	900.33
0+22	900.27
0+28	900.22
0+30	900.19
0+32	900.17
0+38	900.10
0+44	900.05
0+46	900.03
0+50	900.01
0+51	900.01
0+51	900.02
0+52	900.02
0+53	899.64
0+55	899.39
0+59	898.69
0+59	898.61
0+60	898.65
0+63	899.05
0+65	899.33
0+71	899.93
0+73	900.08
0+76	900.26
0+76	900.26
0+77	900.26
0+79	900.31
0+79	900.33
0+80	900.34
0+82	900.43
0+83	900.44
0+85	900.49
0+88	900.53
0+88	900.54
0+88	900.54

Worksheet for EAST ROAD DITCH

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 900.50)	(0+88, 900.54)	0.055

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	22.0 in
Roughness Coefficient	0.055
Elevation	900.44 ft
Elevation Range	898.6 to 900.5 ft
Flow Area	35.5 ft²
Wetted Perimeter	78.7 ft
Hydraulic Radius	5.4 in
Top Width	78.52 ft
Normal Depth	22.0 in
Critical Depth	18.6 in
Critical Slope	0.058 ft/ft
Velocity	2.01 ft/s
Velocity Head	0.06 ft
Specific Energy	1.90 ft
Froude Number	0.527
Flow Type	Subcritical

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	22.0 in
Critical Depth	18.6 in
Channel Slope	0.016 ft/ft
Critical Slope	0.058 ft/ft

Worksheet for FIELD 6 CHANNEL SECTION

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.010 ft/ft
Discharge	104.78 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	903.07
0+16	903.00
0+29	900.78
0+36	900.78
0+40	901.88
0+40	903.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 903.07)	(0+40, 903.00)	0.055

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	24.2 in
Roughness Coefficient	0.055
Elevation	902.79 ft
Elevation Range	900.8 to 903.1 ft
Flow Area	32.1 ft²
Wetted Perimeter	24.2 ft
Hydraulic Radius	15.9 in
Top Width	22.94 ft
Normal Depth	24.2 in
Critical Depth	16.6 in
Critical Slope	0.046 ft/ft
Velocity	3.26 ft/s
Velocity Head	0.17 ft
Specific Energy	2.18 ft
Froude Number	0.487

Worksheet for FIELD 6 CHANNEL SECTION

Results	
Flow Type	Subcritical

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	24.2 in
Critical Depth	16.6 in
Channel Slope	0.010 ft/ft
Critical Slope	0.046 ft/ft

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
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PROJECT NO.:	60316.001
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CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE
CHANNEL CALCULATIONS (1 OF 2)

C304

FILE NAME: A:\60000s\60316\001\LDI\CADD\Sheets\C-PLAN-DAMP-60316.001.dwg DATE: October 14, 2025, TIME: 4:18 PM, USER: ahl144 AVO: 60316.001

Worksheet for FIELD 6 INTERMEDIATE CS

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.010 ft/ft
Discharge	104.78 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	903.00
0+19	903.12
0+20	903.12
0+20	899.74
0+29	899.74
0+33	900.78
0+34	903.12
0+34	903.12

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 903.00)	(0+34, 903.12)	0.055

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	27.3 in
Roughness Coefficient	0.055
Elevation	902.01 ft
Elevation Range	899.7 to 903.1 ft
Flow Area	27.7 ft²
Wetted Perimeter	16.7 ft
Hydraulic Radius	19.9 in
Top Width	13.23 ft
Normal Depth	27.3 in
Critical Depth	17.1 in
Critical Slope	0.049 ft/ft
Velocity	3.78 ft/s
Velocity Head	0.22 ft

Worksheet for FIELD 6 INTERMEDIATE CS

Results	
Specific Energy	2.49 ft
Froude Number	0.461
Flow Type	Subcritical

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	27.3 in
Critical Depth	17.1 in
Channel Slope	0.010 ft/ft
Critical Slope	0.049 ft/ft

Worksheet for FIELD 9 CHANNEL SECTION

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.014 ft/ft
Discharge	130.10 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	903.11
0+23	903.00
0+24	903.00
0+24	900.00
0+31	897.85
0+31	897.84
0+33	897.76
0+34	897.66
0+39	897.35
0+41	897.32
0+42	897.32
0+45	898.13
0+49	898.84
0+49	898.96
0+52	898.97
0+56	899.01
0+58	899.05
0+64	899.10
0+66	899.13
0+72	899.27
0+73	899.27
0+80	899.29
0+86	899.39
0+88	899.43
0+89	899.42
0+96	899.64

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 903.11)	(0+96, 899.64)	0.055

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method

Worksheet for FIELD 9 CHANNEL SECTION

Options	
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	26.4 in
Roughness Coefficient	0.055
Elevation	899.52 ft
Elevation Range	897.3 to 903.1 ft
Flow Area	49.8 ft²
Wetted Perimeter	67.3 ft
Hydraulic Radius	8.9 in
Top Width	66.85 ft
Normal Depth	26.4 in
Critical Depth	19.1 in
Critical Slope	0.044 ft/ft
Velocity	2.61 ft/s
Velocity Head	0.11 ft
Specific Energy	2.31 ft
Froude Number	0.533
Flow Type	Subcritical

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	26.4 in
Critical Depth	19.1 in
Channel Slope	0.014 ft/ft
Critical Slope	0.044 ft/ft

Worksheet for GRASSY SWALE

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.005 ft/ft
Discharge	46.08 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	902.01
0+00	902.01
0+03	902.01
0+05	902.02
0+11	902.02
0+16	902.04
0+18	902.04
0+24	902.02
0+24	902.02
0+26	901.94
0+26	901.94
0+31	900.65
0+31	900.60
0+31	900.60
0+31	900.60
0+31	900.60
0+36	900.60
0+41	900.60
0+41	900.60
0+41	900.60
0+48	902.27
0+48	903.42
0+48	904.00
0+48	904.00
0+49	904.00

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 902.01)	(0+49, 904.00)	0.040

Options	
Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method

Worksheet for GRASSY SWALE

Options	
Closed Channel Weighting Method	Pavlovskii's Method

Results	
Normal Depth	14.9 in
Roughness Coefficient	0.040
Elevation	901.84 ft
Elevation Range	900.6 to 904.0 ft
Flow Area	18.6 ft²
Wetted Perimeter	20.2 ft
Hydraulic Radius	11.0 in
Top Width	19.93 ft
Normal Depth	14.9 in
Critical Depth	9.4 in
Critical Slope	0.028 ft/ft
Velocity	2.48 ft/s
Velocity Head	0.10 ft
Specific Energy	1.34 ft
Froude Number	0.453
Flow Type	Subcritical

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

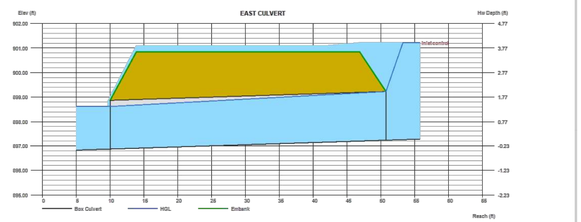
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	14.9 in
Critical Depth	9.4 in
Channel Slope	0.005 ft/ft
Critical Slope	0.028 ft/ft

Culvert Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Aug 1 2025

EAST CULVERT

Invert Elev Dn (ft)	= 896.87	**Calculations**	
Pipe Length (ft)	= 40.74	Qmin (cfs)	= 134.20
Slope (%)	= 0.88	Qmax (cfs)	= 134.20
Invert Elev Up (ft)	= 897.23	Tailwater Elev (ft)	= Critical
Rise (in)	= 24.0		
Shape	= Box	**Highlighted**	
Span (in)	= 48.0	Qtotal (cfs)	= 134.20
No. Barrels	= 1	Qpipe (cfs)	= 66.19
n-Value	= 0.013	Qovertop (cfs)	= 68.01
Culvert Type	= Flared Wingwalls	Veloc Dn (ft/s)	= 9.46
Culvert Entrance	= 30D to 75D wingwall flares	Veloc Up (ft/s)	= 8.27
Coeff. K,M,c,Y,k	= 0.026, 1, 0.0347, 0.81, 0.4	HGL Dn (ft)	= 898.62
		HGL Up (ft)	= 899.23
Embankment		Hw Elev (ft)	= 901.22
Top Elevation (ft)	= 900.84	Hw/D (ft)	= 1.99
Top Width (ft)	= 33.00	Flow Regime	= Inlet Control
Crest Width (ft)	= 97.00		

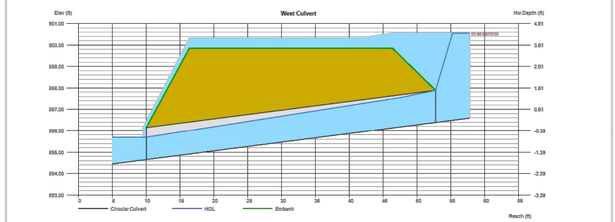


Culvert Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Aug 1 2025

West Culvert

Invert Elev Dn (ft)	= 894.65	**Calculations**	
Pipe Length (ft)	= 42.74	Qmin (cfs)	= 130.10
Slope (%)	= 4.07	Qmax (cfs)	= 130.10
Invert Elev Up (ft)	= 896.39	Tailwater Elev (ft)	= Critical
Rise (in)	= 18.0		
Shape	= Circular	**Highlighted**	
Span (in)	= 18.0	Qtotal (cfs)	= 130.10
No. Barrels	= 2	Qpipe (cfs)	= 31.59
n-Value	= 0.013	Qovertop (cfs)	= 98.51
Culvert Type	= Circular Concrete	Veloc Dn (ft/s)	= 12.02
Culvert Entrance	= Square edge w/headwall (C)	Veloc Up (ft/s)	= 9.12
Coeff. K,M,c,Y,k	= 0.0098, 2, 0.0398, 0.67, 0.5	HGL Dn (ft)	= 895.70
		HGL Up (ft)	= 897.81
Embankment		Hw Elev (ft)	= 900.55
Top Elevation (ft)	= 899.85	Hw/D (ft)	= 2.77
Top Width (ft)	= 30.00	Flow Regime	= Inlet Control
Crest Width (ft)	= 58.39		



SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
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LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512)777-4600

REVISION NO.	DATE	DESCRIPTION

STATE OF TEXAS
MARK R. SABELLA
123046
LICENSED
PROFESSIONAL ENGINEER

10/17/2025

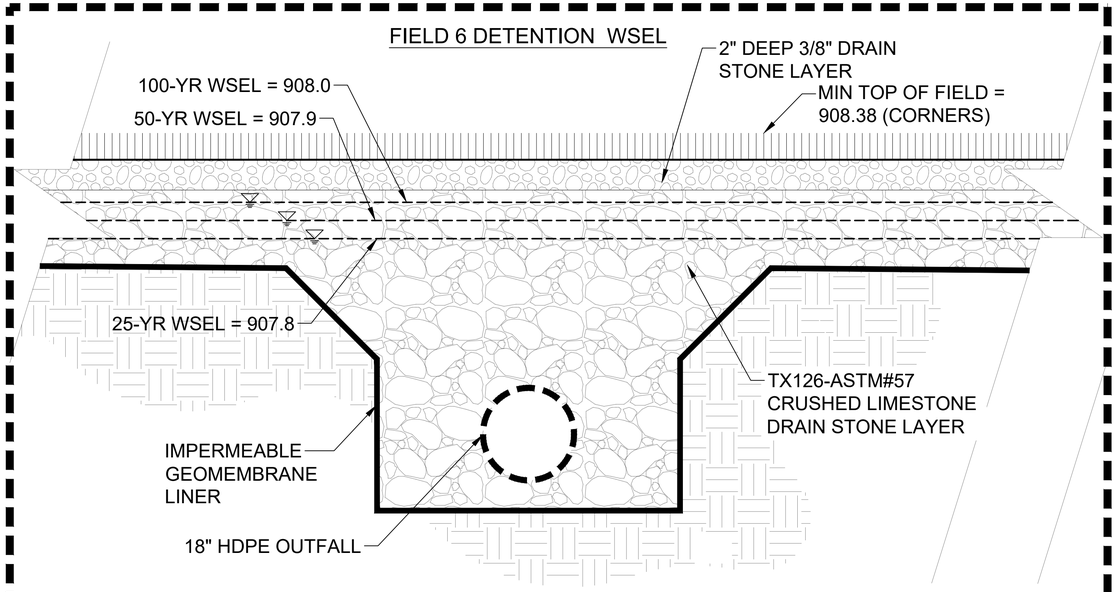
PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE
CHANNEL CALCULATIONS (2 OF 2)

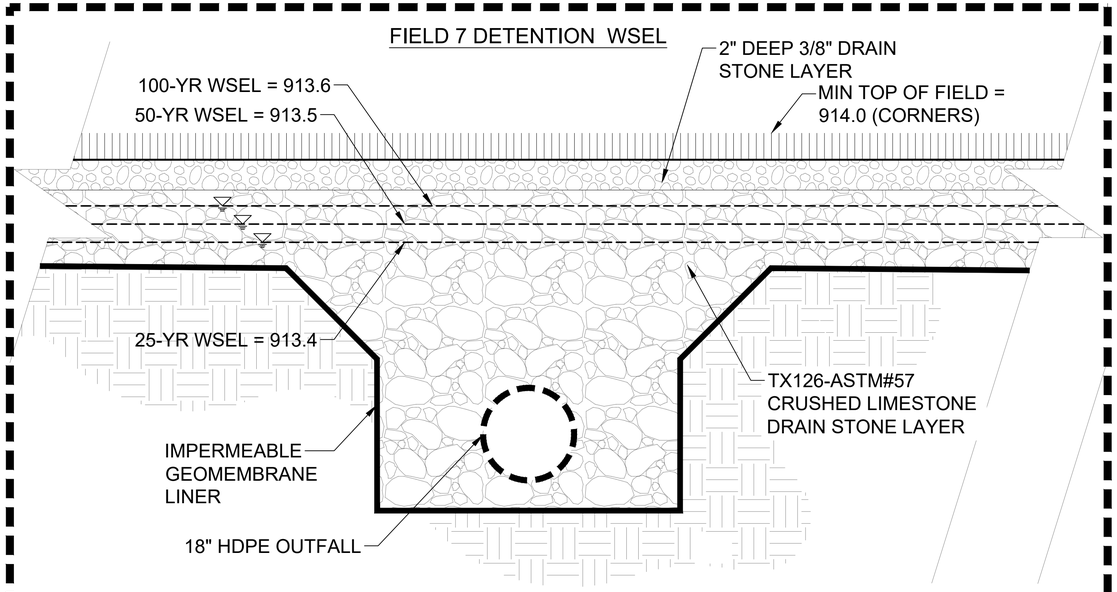
C305

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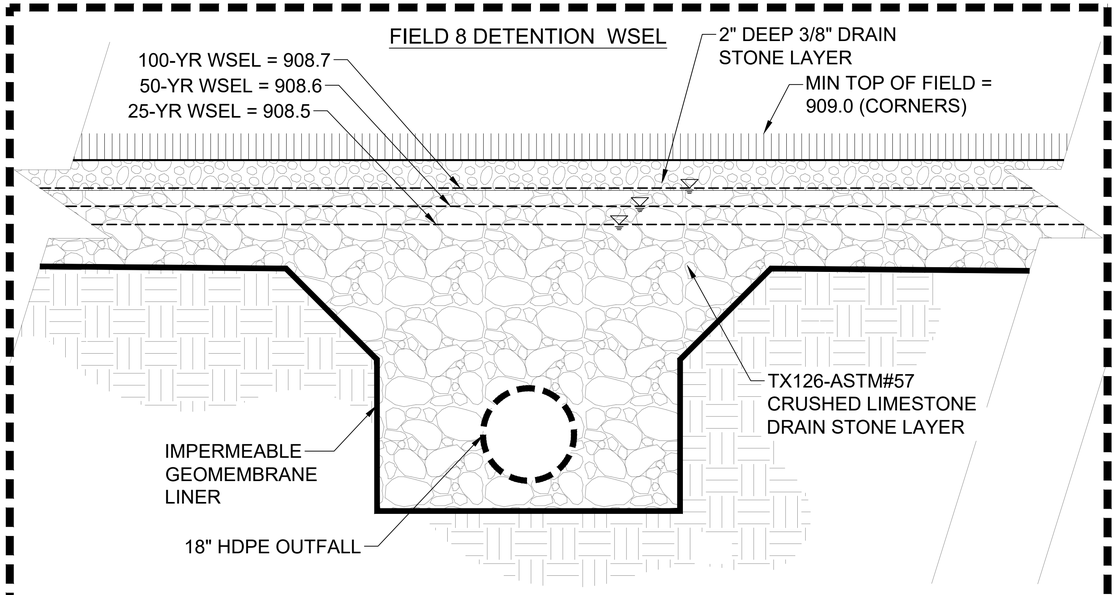
FIELD 6 DETENTION WSEL



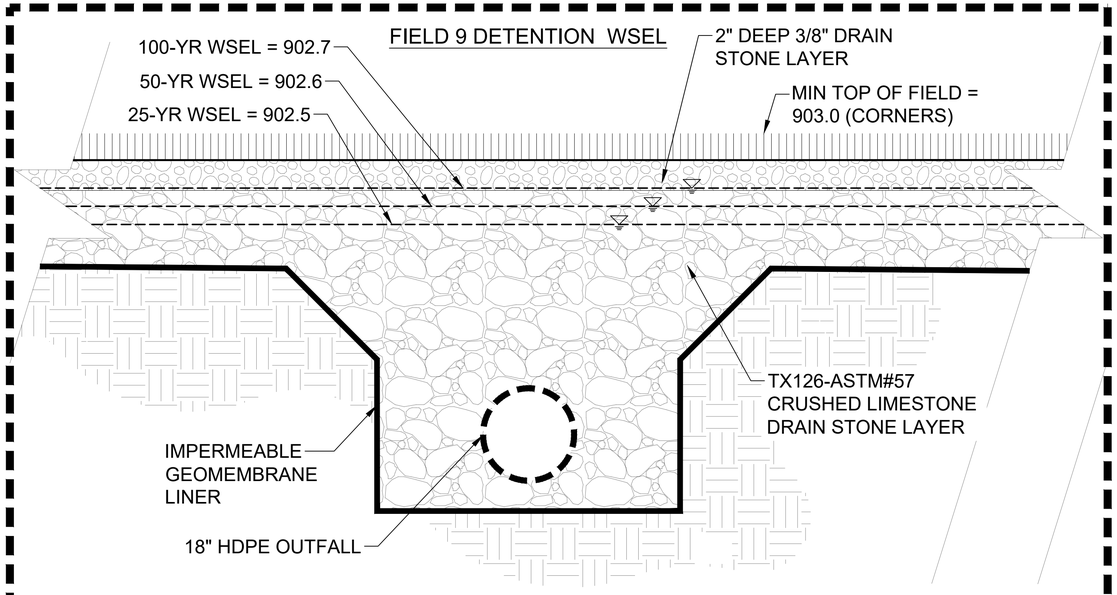
FIELD 7 DETENTION WSEL



FIELD 8 DETENTION WSEL



FIELD 9 DETENTION WSEL



			Pool Elevation (FT)			Peak Storage (AC-FT)		
Field	Corner Elevation of Field	Crown Elevation of Field	25-yr	50-yr	100-yr	25-yr	50-yr	100-yr
6	908.38	908.98	907.8	907.9	908	0.26	0.34	0.43
7	914	914.6	913.4	913.5	913.6	0.24	0.27	0.32
8	909	909.6	908.5	908.6	908.7	0.29	0.35	0.41
9	903	903.6	902.5	902.6	902.7	0.28	0.35	0.41

* NOTE: REFER TO DETENTION ANALYSIS TECHNICAL REMORANDUM FOR DATA

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13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

STATE OF TEXAS
MARK R. SABELLA
123046
LICENSED PROFESSIONAL ENGINEER
10/17/2025

PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE
DETENTION SECTIONS

C306

FILE NAME: A:\60000s\60316\001\LD\CADD\Sheets\C-PLAN-POND-60316.001.dwg DATE: October 14, 2025, TIME: 4:19 PM, USER: ah1144 AVO: 60316.001

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Thursday, Sep 18 2025

Grassy Swale Section

Trapezoidal

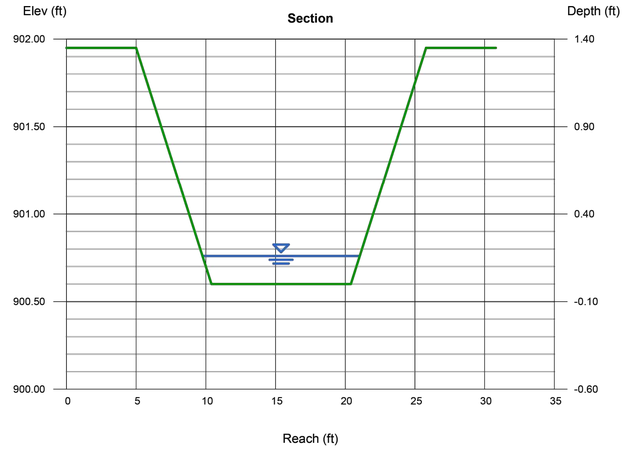
Bottom Width (ft)	= 10.00
Side Slopes (z:1)	= 4.00, 4.00
Total Depth (ft)	= 1.35
Invert Elev (ft)	= 900.60
Slope (%)	= 0.50
N-Value	= 0.040

Calculations

Compute by:	Known Q
Known Q (cfs)	= 1.24

Highlighted

Depth (ft)	= 0.16
Q (cfs)	= 1.240
Area (sqft)	= 1.70
Velocity (ft/s)	= 0.73
Wetted Perim (ft)	= 11.32
Crit Depth, Yc (ft)	= 0.08
Top Width (ft)	= 11.28
EGL (ft)	= 0.17



COMPOSITE C VALUE						
	TOTAL	PERVIOUS		IMPERVIOUS		COMPOSITE
ID	AREA	AREA	C*	AREA	C*	C*
[-]	[ac]	[ac]	[-]	[ac]	[-]	[-]
WQ	2.25	1.29	0.33	0.95	0.74	0.50
* Based on RG-438 SPREAD SHEET						

INLET DRAINAGE AREA TABLES (RATIONAL METHOD)				
ID	AREA	I*	COMPOSITE C	Q**
[-]	[AC]	[IN/HR]	[-]	[CFS]
WQ	2.25	1.1	0.50	1.24
*Intensty provided from RG-348 Techical Guidance on BMP				
**Q (cfs) values shown represent the calculated peak discharge				

NOTES:

1. THE PROPOSED GRASSY SWALE WAS DESIGNED TO PROVIDE WATER QUALITY DUE TO THE INCREASE OF IMPERVIOUS COVER AND TO BE IN ACCORDANCE WITH THE RG-348 TECHNICAL GUIDANCE ON BEST MANAGMENT PRACTICES.

2. THE FOLLOWING CORRISOPNDANCE WITH TCEQ WAS PROVIDED ON MAY 9TH, 2025.
"THE EAPP HAS ALLOWED ARTIFICIAL TURF FIELDS WITH GRAVEL AND PERFORATED PIPE UNDERDRAIN SYSTEM THAT WOULD BE CONSIDERED AS PROVIDING EQUIVALENT WATER QUALITY PROTECTION. THESE SYSTEMS DO NOT HAVE AN TSS REMOVAL EFFICIENCY ASSOCIATED. THEY ESSENTIALLY ARE A 1 FOR 1 TRADE, THEY TREAT THE AREA OF THE TRUF FIELD ONLY. THEY CANNOT PROVIDE OVERTREATMENT FOR ANY UNCAPTURED IMPERIOUS COVER PROPOSED FOR THE PROJECT."

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
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LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

STATE OF TEXAS
MARK R. SABELLA
123046
LICENSED
PROFESSIONAL ENGINEER

10/17/2025

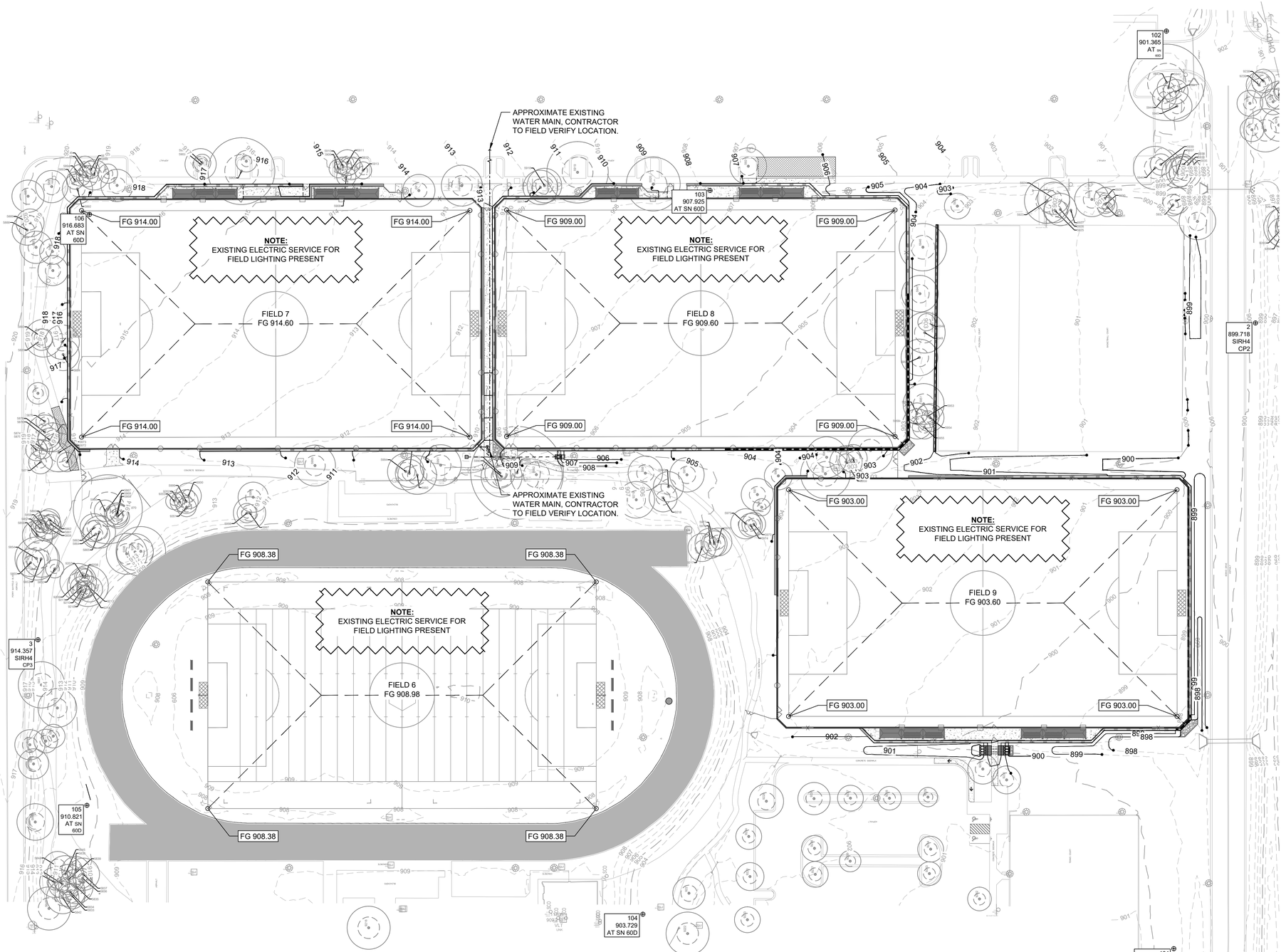
PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	IS
CHECKED BY:	ML
SCALE:	AS SHOWN

SHEET TITLE

WATER QUALITY CALCULATIONS

C307

FILE NAME: A:\60000s\60316\001\LD\CADD\Sheets\C-PLAN-DAMP-60316.001.dwg DATE: October 14, 2025, TIME: 4:19 PM, USER: alh4144 AVO: 60316.001



OVERALL NOTE:

REFER TO ENLARGEMENT SHEETS L201 - L204 FOR MORE DETAILED GRADING INFORMATION

SURVEY BENCHMARK INFORMATION

THIS PROJECT IS REFERENCED, FOR ALL BEARING AND COORDINATE BASIS, TO THE TEXAS COORDINATE SYSTEM, CENTRAL ZONE (4203), NORTH AMERICAN DATUM OF 1983 (2011) EPOCH 2010.00, GEOID 18.

ALL COORDINATES SHOWN HEREON ARE SURFACE COORDINATES AND CAN BE ADJUSTED TO GRID BY DIVIDING BY THE SURFACE ADJUSTMENT FACTOR OF 1.00012.

ALL ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM (NAVD) 88 AND WERE DERIVED FROM GPS OBSERVATIONS.

1/2" IRON RODS WITH HALFF CAPS (SIRH4) HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177173.16	3104718.322	897.925
10177157.04	3105405.23	899.718
10178285.43	3105111.62	914.357

SET 60D NAILS HAVE BEEN SET AT THE FOLLOWING LOCATIONS:

NORTHING	EASTING	ELEVATION
10177232.7	3104825.297	899.356
10177239.59	3105875.752	901.365
10177662.58	3105528.096	907.925
10177724.76	3104857.267	903.729
10178240.06	3104958.156	910.821
10178237.63	3105505.932	916.683

ACCESSIBLE TRAIL/WALKWAY GRADING AND EARTHWORK NOTES

1. TRAILS / WALKWAYS WERE DESIGNED AND MUST BE CONSTRUCTED TO COMPLY WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT, ARTICLE 902, TEXAS CIVIL STATUES. AN ACCESSIBILITY INSPECTION WILL BE REQUIRED AT THE END OF PROJECT CONSTRUCTION FOR COMPLIANCE WITH THE STANDARD AND AS REGULATED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
2. SEE SPECIFICATIONS FOR REQUIREMENTS RELATED TO: CLEARING AND GRUBBING; EARTHWORK; TOPSOIL STRIPPING, STOCKPILING, AND REPLACEMENT; SELECT FILL AND FINE GRADING (BLUE TOP) OPERATIONS. REFER TRAIL/WALKWAY CLEARING, GRUBBING AND RE-VEGETATION NOTES FOR ADDITIONAL GRADING INFORMATION.
3. CONTRACTOR SHALL HAUL OFF ALL WASTE, DEBRIS AND TRASH AS NECESSARY DURING EXCAVATION. CONTRACTOR SHALL USE ON-SITE AND APPROVED IMPORT FILL MATERIAL AS NECESSARY TO ESTABLISH FINISHED GRADES. NO SEPARATE PAYMENTS WILL BE MADE FOR THESE ITEMS. ALL COSTS TO BE INCLUDED IN BASE BID.
4. CROSS SLOPES OF TRAILS / WALKWAYS SHALL NOT EXCEED A GRADIENT OF 1.50% (0.15 FOOT RISE IN 10.00 FEET OR RUN) UNLESS OTHERWISE NOTED.
5. LONGITUDINAL SLOPES OF TRAILS / WALKWAYS SHALL NO EXCEED A GRADIENT OF 4.5% (0.45 FOOT RISE IN 10.00 FEET OF RUN) UNLESS OTHERWISE NOTED.
6. CROSS-SLOPES OF EARTHEN BERMS AND BACKFILL SLOPES SHALL NOT EXCEED A GRADIENT OF 3:1 (33%).
7. WHERE A TRAIL/WALKWAY INTERSECTS ANOTHER TRAIL/WALKWAY, SLAB OR OTHER STRUCTURE, THE CROSS SLOPE AT THE INTERSECTION SHALL NOT EXCEED 1.50% IN ALL DIRECTIONS, NO EXCEPTION.
8. NO CHANGE IN LEVEL GREATER THAN 1/4 IN. WILL BE ACCEPTED. CHANGES IN LEVEL BETWEEN 1/4 IN. MIN. AND 1/2 IN. MAX. SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
9. EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM ON THE GROUND SURVEY AND AVAILABLE LIDAR INFORMATION. TRAIL/WALKWAY ARE DESIGNED, SPECIFIED AND TO BE CONSTRUCTED TO FOLLOW EXISTING TOPOGRAPHY UNLESS OTHERWISE NOTED. TRAIL/WALKWAY ALIGNMENTS MAY REQUIRE VERTICAL AND/ OR HORIZONTAL ADJUSTMENTS DURING CONSTRUCTION TO ACCOMMODATE ACTUAL FIELD CONDITIONS. ALL ALIGNMENT CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION OF SUCH ADJUSTMENTS.

LEGEND

EG950.00	EXISTING GRADE ELEVATION
FG950.00	FINISHED GRADE ELEVATION
TW 950.00	TOP OF WALL ELEVATION
BW 950.00	BOTTOM OF WALL ELEVATION
TC 950.00	TOP OF CURB
SG 950.00	SUBGRADE ELEVATION
GE 950.00	GRATE ELEVATION

LEGEND

	PROPERTY LINE
	RETAINING WALLS (0 TO 2 FT.) - TYPE 1
	RETAINING WALLS (0 TO 4 FT.) - TYPE 1
	RETAINING WALLS (4 TO 6 FT.) - TYPE 2
1000	TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 25 50 100
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRANWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT BRIAN R. BINKOWSKI 2497 STATE OF TEXAS
10/17/25

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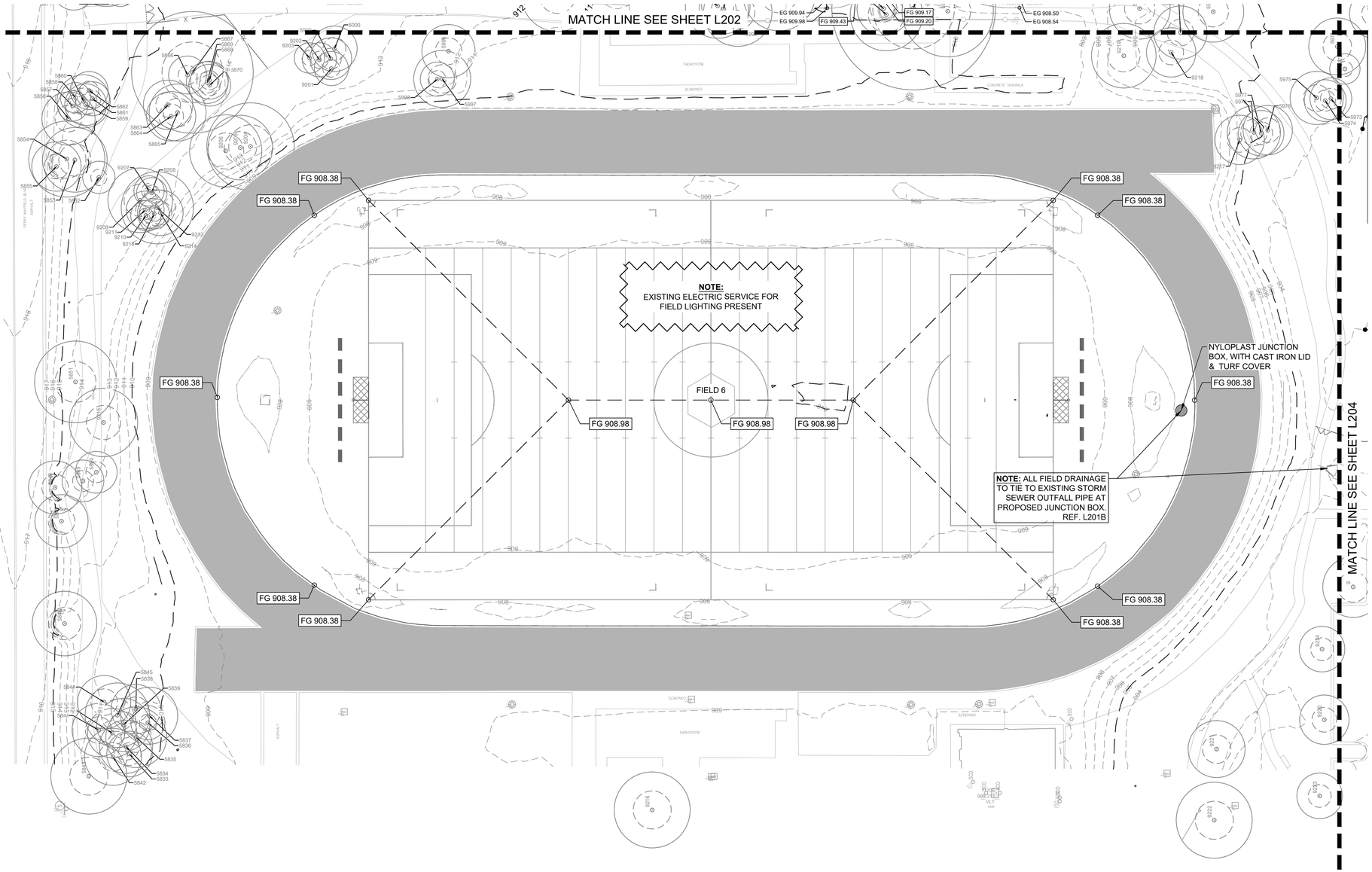
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

OVERALL GRADING PLAN

L200

FILE NAME: A:\60000s\60316\0011LA\CADD\Sheets\L-PLAN-GRAD-60316.001.dwg DATE: October 16, 2025, TIME: 10:20 AM, USER: ab3106 AVO: 31001.005



ACCESSIBLE TRAIL/WALKWAY GRADING AND EARTHWORK NOTES

1. TRAILS / WALKWAYS WERE DESIGNED AND MUST BE CONSTRUCTED TO COMPLY WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT, ARTICLE 902, TEXAS CIVIL STATUES. AN ACCESSIBILITY INSPECTION WILL BE REQUIRED AT THE END OF PROJECT CONSTRUCTION FOR COMPLIANCE WITH THE STANDARD AND AS REGULATED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
2. SEE SPECIFICATIONS FOR REQUIREMENTS RELATED TO: CLEARING AND GRUBBING; EARTHWORK; TOPSOIL STRIPPING, STOCKPILING, AND REPLACEMENT; SELECT FILL AND FINE GRADING (BLUE TOP) OPERATIONS. REFER TRAIL/WALKWAY CLEARING, GRUBBING AND RE-VEGETATION NOTES FOR ADDITIONAL GRADING INFORMATION.
3. CONTRACTOR SHALL HAUL OFF ALL WASTE, DEBRIS AND TRASH AS NECESSARY DURING EXCAVATION. CONTRACTOR SHALL USE ON-SITE AND APPROVED IMPORT FILL MATERIAL AS NECESSARY TO ESTABLISH FINISHED GRADES. NO SEPARATE PAYMENTS WILL BE MADE FOR THESE ITEMS. ALL COSTS TO BE INCLUDED IN BASE BID.
4. CROSS SLOPES OF TRAILS / WALKWAYS SHALL NOT EXCEED A GRADIENT OF 1.50% (0.15 FOOT RISE IN 10.00 FEET OR RUN) UNLESS OTHERWISE NOTED.
5. LONGITUDINAL SLOPES OF TRAILS / WALKWAYS SHALL NO EXCEED A GRADIENT OF 4.5% (0.45 FOOT RISE IN 10.00 FEET OF RUN) UNLESS OTHERWISE NOTED.
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9. EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM ON THE GROUND SURVEY AND AVAILABLE LIDAR INFORMATION. TRAIL/WALKWAY ARE DESIGNED, SPECIFIED AND TO BE CONSTRUCTED TO FOLLOW EXISTING TOPOGRAPHY UNLESS OTHERWISE NOTED. TRAIL/WALKWAY ALIGNMENTS MAY REQUIRE VERTICAL AND/ OR HORIZONTAL ADJUSTMENTS DURING CONSTRUCTION TO ACCOMMODATE ACTUAL FIELD CONDITIONS. ALL ALIGNMENT CHANGES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION OF SUCH ADJUSTMENTS.

LEGEND

EG950.00	EXISTING GRADE ELEVATION
FG950.00	FINISHED GRADE ELEVATION
TW 950.00	TOP OF WALL ELEVATION
BW 950.00	BOTTOM OF WALL ELEVATION
TC 950.00	TOP OF CURB
SG 950.00	SUBGRADE ELEVATION
GE 950.00	GRATE ELEVATION

LEGEND

	PROPERTY LINE
	RETAINING WALLS (0 TO 2 FT.) - TYPE 1
	RETAINING WALLS (0 TO 4 FT.) - TYPE 1
	RETAINING WALLS (4 TO 6 FT.) - TYPE 2
1000	TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 15 30 60
SCALE IN FEET

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1858
STATE OF TEXAS
10/17/25

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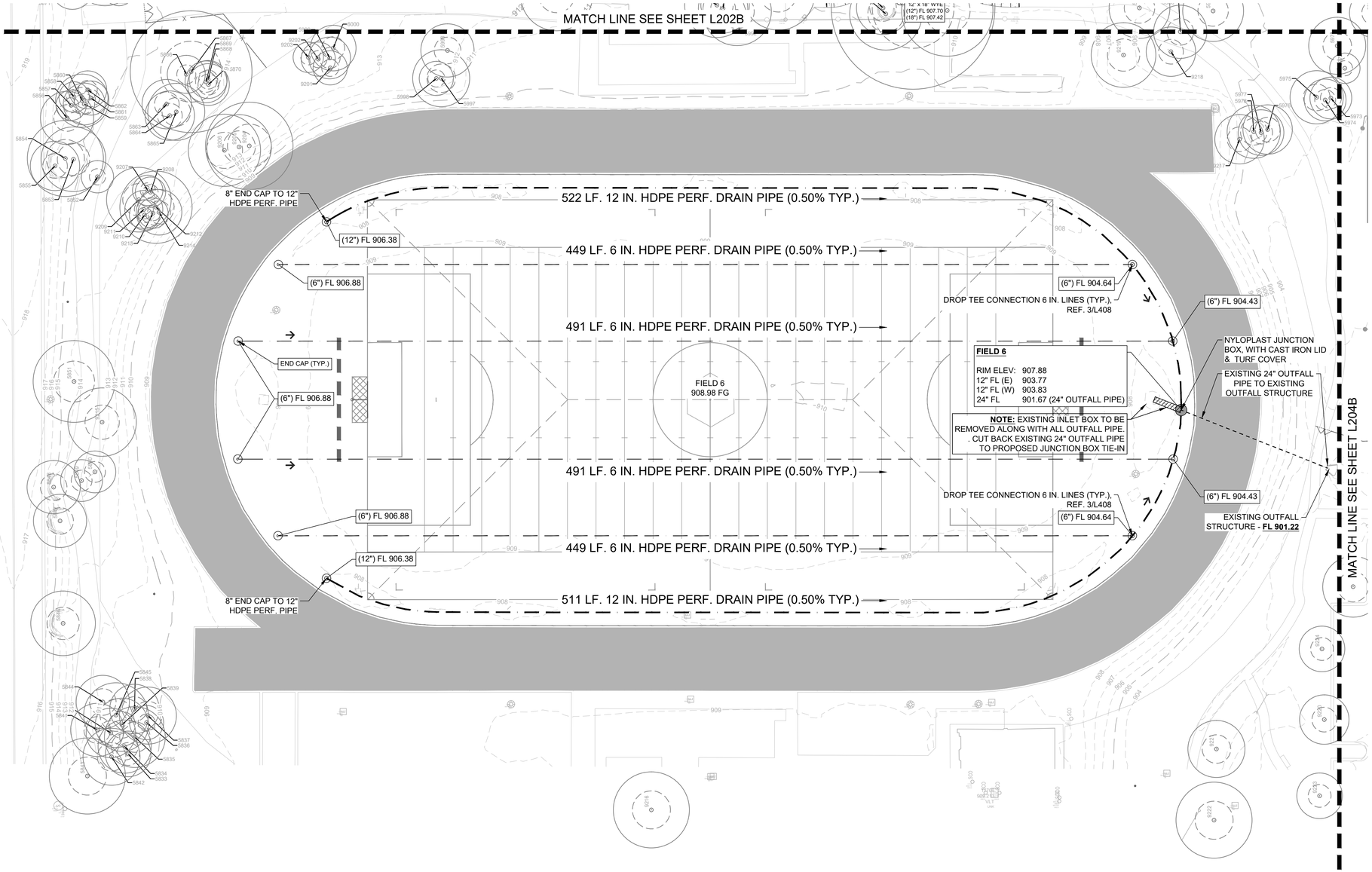
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

GRADING PLAN

L201

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-GRAD-60316.001.dwg DATE: October 16, 2025, TIME: 10:20 AM, USER: ah3106 AVO: 31001.005



LEGEND

- PROPERTY LINE
- FLOW ARROW
- DROP TEE CONNECTIONS
- FL — FLOW LINE
- GE — GRATE ELEVATION

N

0 15 30 60

SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT — BRIAN R. BINKOWSKI — 8917 — STATE OF TEXAS

10/17/25

This electronic file is released under the authority of Brian R. Binkowski, PLA# 1656 on10/17/2025, who maintains the original file. This electronic file may be used as a background drawing. Pursuant to rule 1.103(f) of the rules and regulations of The Texas Board of Architectural Examiners, the user of this electronic drawing file agrees to assume all responsibility for any modification to this electronic drawing file not made by the landscape architect. Pursuant to rules and regulations of The Texas Board of Architectural Examiners, No person may make any modifications to this electronic drawing file without the landscape architect's express written permission.

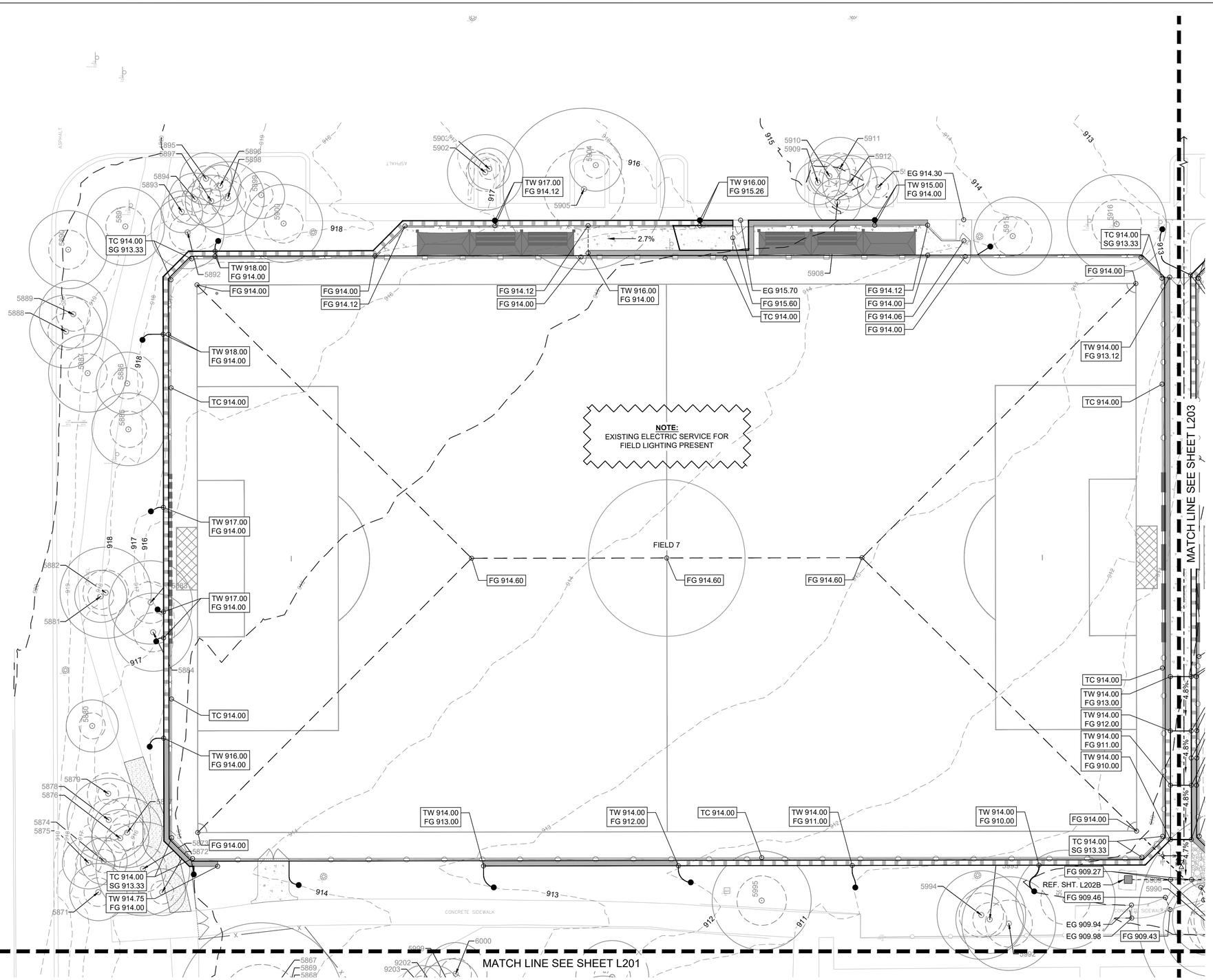
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

FIELD DRAINAGE PLAN (FIELD 6)

L201B

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DRAINAGE-60316.001.dwg DATE: October 16, 2025, TIME: 10:21 AM, USER: ah3106 AVO: 31001.005



ACCESSIBLE TRAIL/WALKWAY GRADING AND EARTHWORK NOTES

1. TRAILS / WALKWAYS WERE DESIGNED AND MUST BE CONSTRUCTED TO COMPLY WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT, ARTICLE 902, TEXAS CIVIL STATUES. AN ACCESSIBILITY INSPECTION WILL BE REQUIRED AT THE END OF PROJECT CONSTRUCTION FOR COMPLIANCE WITH THE STANDARD AND AS REGULATED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
2. SEE SPECIFICATIONS FOR REQUIREMENTS RELATED TO: CLEARING AND GRUBBING; EARTHWORK; TOPSOIL STRIPPING, STOCKPILING, AND REPLACEMENT; SELECT FILL AND FINE GRADING (BLUE TOP) OPERATIONS. REFER TRAIL/WALKWAY CLEARING, GRUBBING AND RE-VEGETATION NOTES FOR ADDITIONAL GRADING INFORMATION.
3. CONTRACTOR SHALL HAUL OFF ALL WASTE, DEBRIS AND TRASH AS NECESSARY DURING EXCAVATION. CONTRACTOR SHALL USE ON-SITE AND APPROVED IMPORT FILL MATERIAL AS NECESSARY TO ESTABLISH FINISHED GRADES. NO SEPARATE PAYMENTS WILL BE MADE FOR THESE ITEMS. ALL COSTS TO BE INCLUDED IN BASE BID.
4. CROSS SLOPES OF TRAILS / WALKWAYS SHALL NOT EXCEED A GRADIENT OF 1.50% (0.15 FOOT RISE IN 10.00 FEET OR RUN) UNLESS OTHERWISE NOTED.
5. LONGITUDINAL SLOPES OF TRAILS / WALKWAYS SHALL NO EXCEED A GRADIENT OF 4.5% (0.45 FOOT RISE IN 10.00 FEET OF RUN) UNLESS OTHERWISE NOTED.
6. CROSS-SLOPES OF EARTHEN BERMS AND BACKFILL SLOPES SHALL NOT EXCEED A GRADIENT OF 3:1 (33%).
7. WHERE A TRAIL/WALKWAY INTERSECTS ANOTHER TRAIL/WALKWAY, SLAB OR OTHER STRUCTURE, THE CROSS SLOPE AT THE INTERSECTION SHALL NOT EXCEED 1.50% IN ALL DIRECTIONS, NO EXCEPTION.
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LEGEND

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FG950.00	FINISHED GRADE ELEVATION
TW 950.00	TOP OF WALL ELEVATION
BW 950.00	BOTTOM OF WALL ELEVATION
TC 950.00	TOP OF CURB
SG 950.00	SUBGRADE ELEVATION
GE 950.00	GRATE ELEVATION

LEGEND

	PROPERTY LINE
	RETAINING WALLS (0 TO 2 FT.) - TYPE 1
	RETAINING WALLS (0 TO 4 FT.) - TYPE 1
	RETAINING WALLS (4 TO 6 FT.) - TYPE 2
1000	TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRIV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2891
STATE OF TEXAS
10/17/25

This electronic file is released under the authority of Brian R. Binkowski, PLA# 1856 on10/17/2025, who maintains the original file. This electronic file may be used as a background drawing. Pursuant to rule 1.122(f) of the rules and regulations of The Texas Board of Architectural Examiners, the user of this electronic drawing file agrees to assume all responsibility for any modification to this electronic drawing file not performed by the landscape architect. Pursuant to rules and regulations of The Texas Board of Architectural Examiners, No person may make any modifications to this electronic drawing file without the landscape architect's express written permission.

PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

GRADING PLAN

L202

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-GRAD-60316.001.dwg DATE: October 16, 2025, TIME: 10:21 AM, USER: ah3106 AVO: 31001.005

582 LF. 12 IN. PERF. DRAIN PIPE (0.50% TYP.)

(12") FL 912.00

366 LF. 6 IN. PERF. DRAIN PIPE (0.50% TYP.)

(6") FL 912.50

DROP TEE CONNECTION 6 IN. LINES (TYP.), REF. 3/L408

(6") FL 910.67

366 LF. 6 IN. PERF. DRAIN PIPE (0.50% TYP.)

END CAP (TYP.)

(6") FL 912.50

FIELD 7
914.60 FG

(6") FL 910.67

MATCH LINE SEE SHEET L203B

366 LF. 6 IN. PERF. DRAIN PIPE (0.50% TYP.)

DROP TEE CONNECTION 6 IN. LINES (TYP.), REF. 3/L408

(6") FL 912.50

(6") FL 910.67

366 LF. 6 IN. PERF. DRAIN PIPE (0.50% TYP.)

NYLOPLAST JUNCTION BOX, WITH CAST IRON LID & TURF COVER

FIELD 7

RIM ELEV: 913.50
12" FL (NE) 909.09
12" FL (NW) 910.16
18" FL 907.59 (OUTFALL PIPE)

(12") FL 912.00

368 LF. 12 IN. PERF. DRAIN PIPE (0.50% TYP.)

NOTE:
1-FOOT THICK X 5 FT. LENGTH CONCRETE COLLAR AROUND PIPE UNDER BLOCK WALL

18" HDPE
12" HDPE

(0.50%)

3'x3' AREA INLET / W/ HEEL PROOF GRATE
GE 909.00
(12") FL 907.80

MATCH LINE SEE SHEET L201B

LEGEND

- PROPERTY LINE
- FLOW ARROW
- DROP TEE CONNECTIONS
- FL — FLOW LINE
- GE — GRATE ELEVATION

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION

NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN E. BINKOWSKI
2891
STATE OF TEXAS

10/17/25

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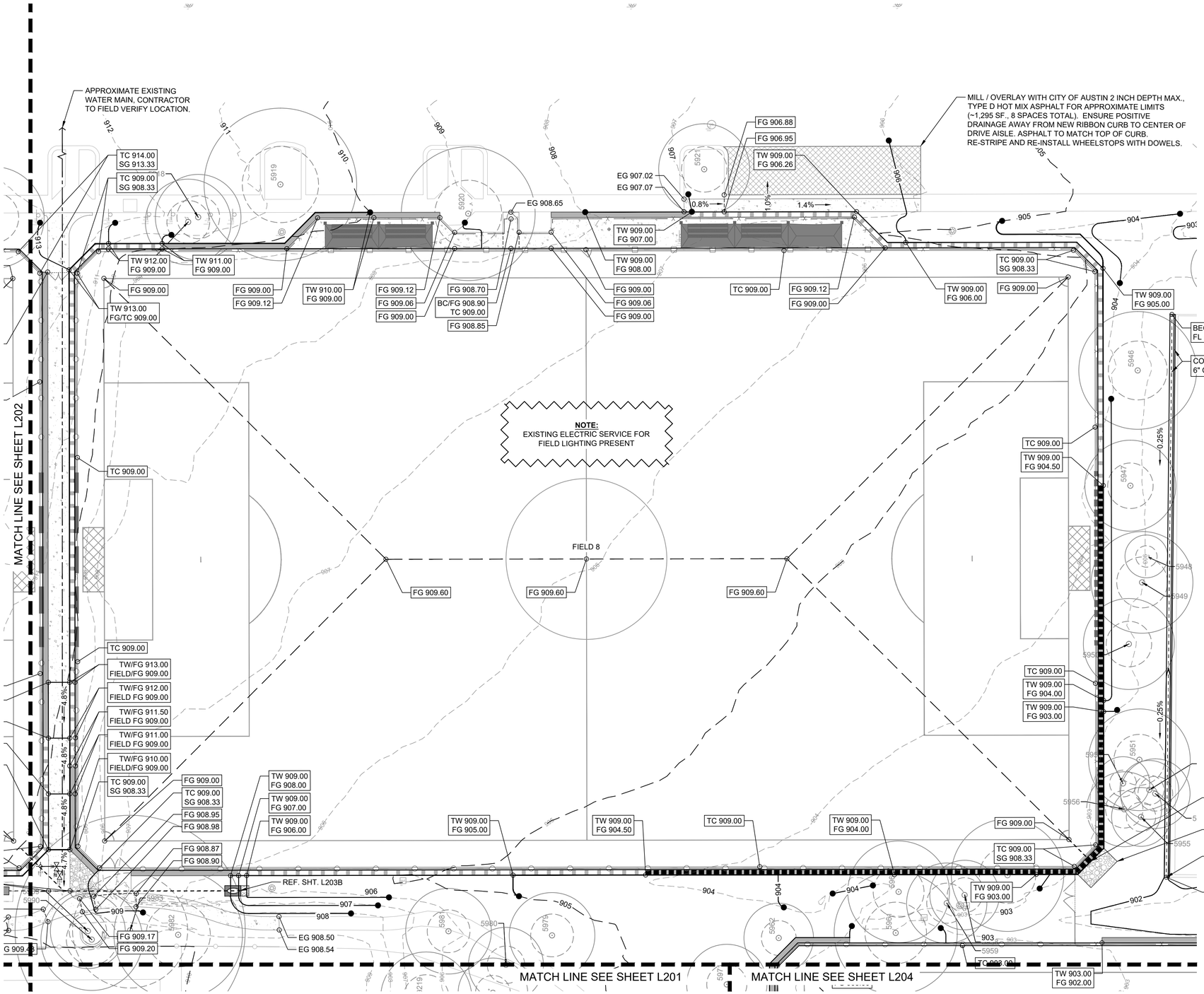
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

FIELD DRAINAGE PLAN
(FIELD 7)

L202B

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DRAINAGE-60316.001.dwg DATE: October 16, 2025, TIME: 10:21 AM, USER: ak3106 AVO: 31001.005



ACCESSIBLE TRAIL/WALKWAY GRADING AND EARTHWORK NOTES

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LEGEND

EG950.00	EXISTING GRADE ELEVATION
FG950.00	FINISHED GRADE ELEVATION
TW 950.00	TOP OF WALL ELEVATION
BW 950.00	BOTTOM OF WALL ELEVATION
TC 950.00	TOP OF CURB
SG 950.00	SUBGRADE ELEVATION
GE 950.00	GRATE ELEVATION

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.) - TYPE 1
- RETAINING WALLS (0 TO 4 FT.) - TYPE 1
- RETAINING WALLS (4 TO 6 FT.) - TYPE 2
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS
3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRAIRWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT BRIAN R. BINKOWSKI 5471 STATE OF TEXAS

10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

GRADING PLAN

L203

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-GRAD-60316.001.dwg DATE: October 16, 2025, TIME: 10:21 AM, USER: ak3106 AVO: 31001.005

APPROXIMATE EXISTING WATER MAIN. CONTRACTOR TO FIELD VERIFY LOCATION.

582 LF. 12 IN. PERF. DRAIN PIPE (0.50% TYP.)

366 LF. 6 IN. PERF. DRAIN PIPE (0.50% TYP.)

366 LF. 6 IN. PERF. DRAIN PIPE (0.50% TYP.)

366 LF. 6 IN. PERF. DRAIN PIPE (0.50% TYP.)

368 LF. 12 IN. PERF. DRAIN PIPE (0.50% TYP.)

(12") FL 907.00

(6") FL 907.50

END CAP (TYP.)

(6") FL 907.50

(6") FL 907.50

(12") FL 907.00

18" HDPE

CULVERTS WITH CONCRETE SLOPED HEADWALL, REF. 3/L412

(18") FL 906.90

18 IN. HDPE (0.80% TYP.)

12" x 18" WYE
(12") FL 907.70
(18") FL 907.42

DROP TEE CONNECTION 6 IN. LINES (TYP.), REF. 3/L408

(6") FL 905.67

(6") FL 905.67

DROP TEE CONNECTION 6 IN. LINES (TYP.), REF. 3/L408

NYLOPLAST JUNCTION BOX, WITH CAST IRON LID & TURF COVER

(6") FL 905.67

REFER TO GRADING SHEET L203 FOR FLUME FLOW LINE ELEVATIONS

REFER TO GRADING SHEET L203 FOR FLUME FLOW LINE ELEVATIONS

FIELD 8
909.60 FG

FIELD 8

RIM ELEV:	908.50
12" FL (NE)	904.09
12" FL (NW)	905.16
18" FL	903.59 (OUTFALL PIPE)

NOTE:
1-FOOT THICK X 5 FT. LENGTH CONCRETE COLLAR AROUND PIPE UNDER BLOCK WALL

NOTE:
ALL FIELD DRAINAGE TO OUTFALL HERE - **FL 903.55**

MATCH LINE SEE SHEET L202B

MATCH LINE SEE SHEET L201B

MATCH LINE SEE SHEET L204B

582 LF.

LEGEND

- PROPERTY LINE
- FLOW ARROW
- DROP TEE CONNECTIONS
- FL — FLOW LINE
- GE — GRATE ELEVATION

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION

NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN M. BINKOWSKI
2894
STATE OF TEXAS
10/17/25

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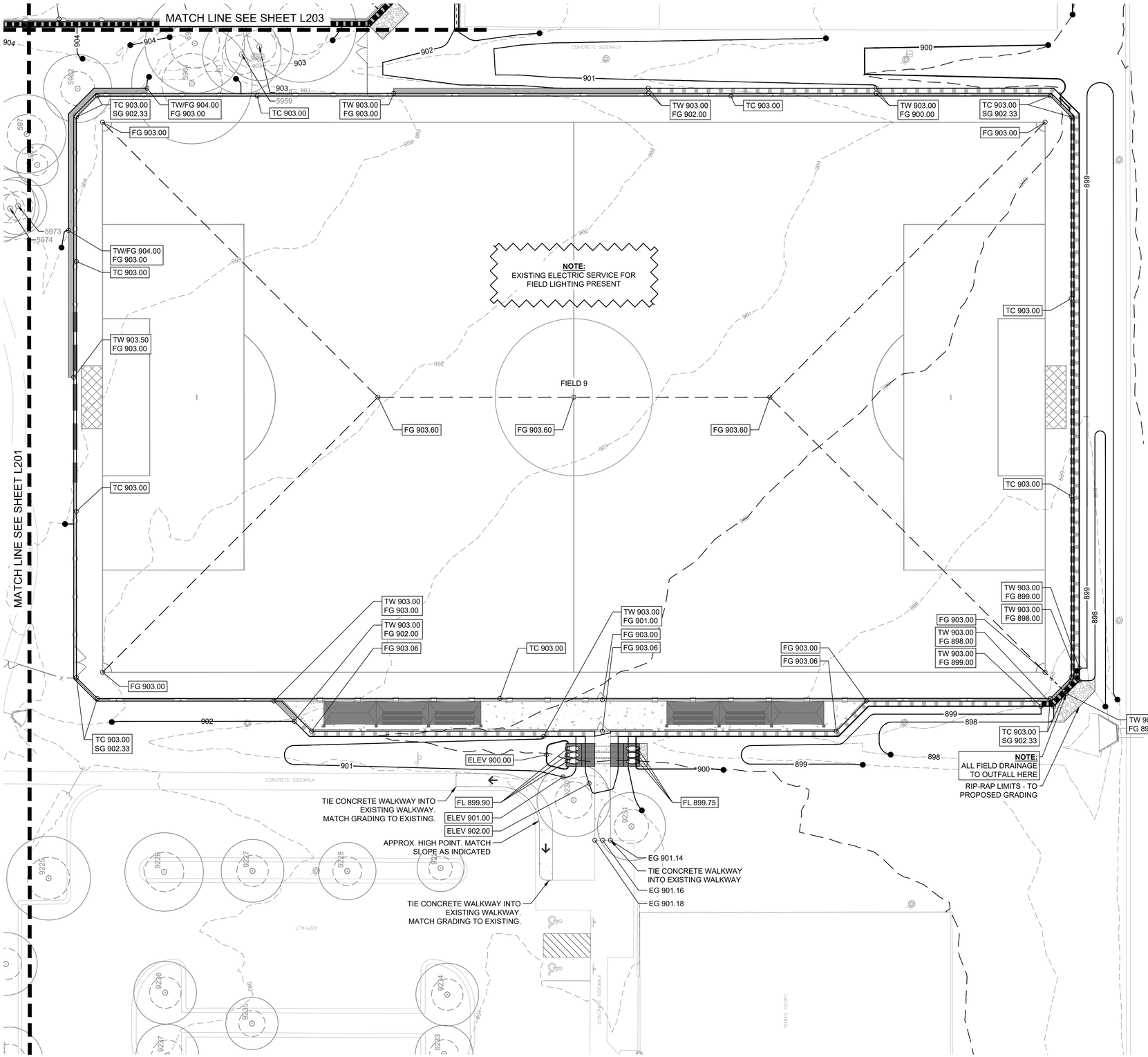
PROJECT NO.:	60316.001
ISSUED:	10/17/25
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SHEET TITLE

FIELD DRAINAGE PLAN
(FIELD 8)

L203B

FILE NAME: A:\60000s\60316\001\LACADD\Sheets\L-PLAN-DRAINAGE-60316.001.dwg DATE: October 16, 2025, TIME: 10:21 AM, USER: ak3106 AVO: 31001.005



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BW 950.00	BOTTOM OF WALL ELEVATION
TC 950.00	TOP OF CURB
SG 950.00	SUBGRADE ELEVATION
TBG 950.00	TOP OF BRIDGE

LEGEND

	PROPERTY LINE
	RETAINING WALLS (0 TO 2 FT.) - TYPE 1
	RETAINING WALLS (0 TO 4 FT.) - TYPE 1
	RETAINING WALLS (4 TO 6 FT.) - TYPE 2
1000	TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES

100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRAKWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1895
STATE OF TEXAS

10/17/25

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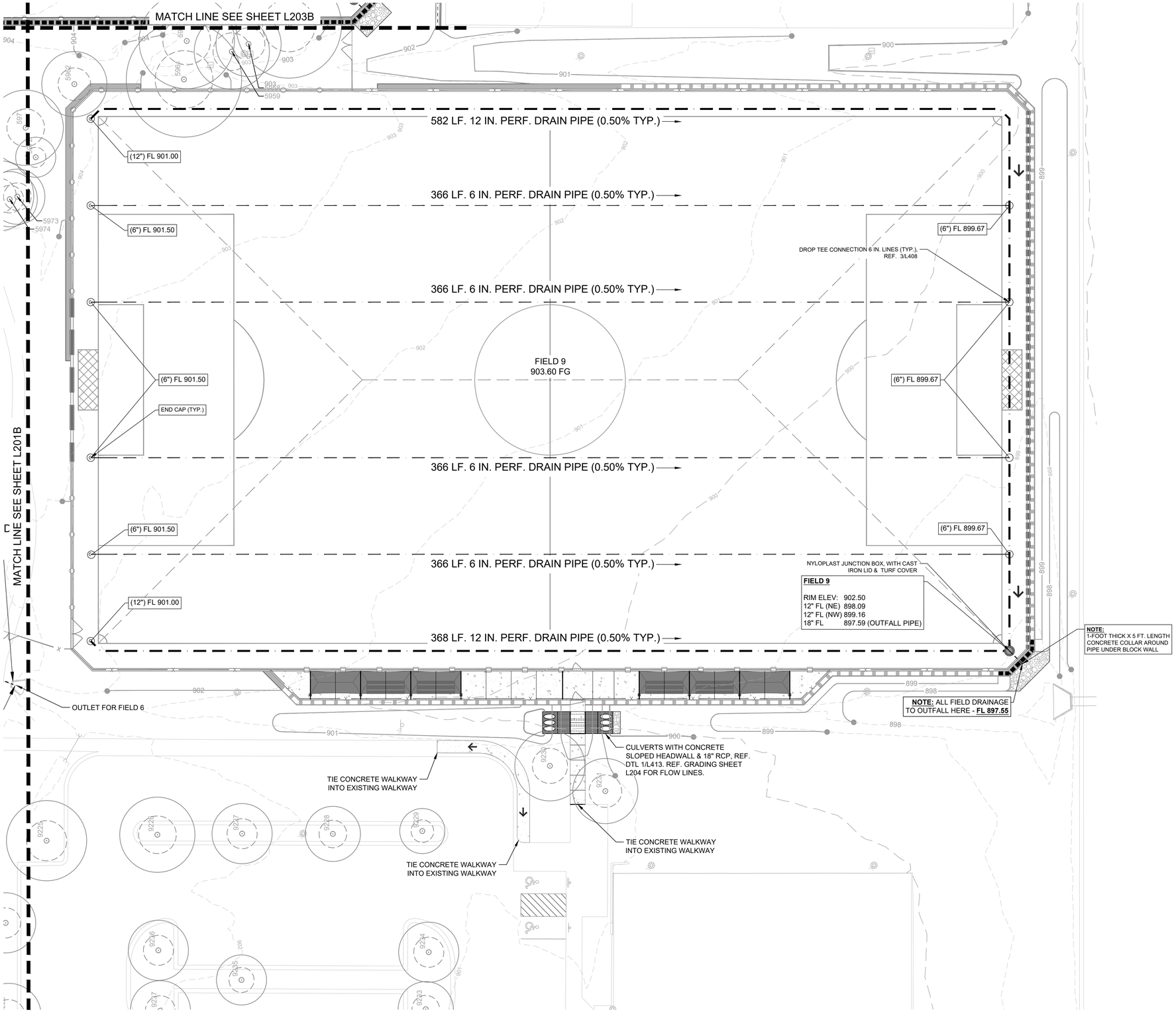
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

GRADING PLAN

L204

FILE NAME: A:\60000s\60316\600\LA\CADD\Sheets\L-PLAN-GRAD-60316.001.dwg DATE: October 16, 2025, TIME: 10:21 AM, USER: ak3106 AVO: 31001.005



LEGEND

- PROPERTY LINE
- FLOW ARROW
- DROP TEE CONNECTIONS
- FL — FLOW LINE
- GE — GRATE ELEVATION

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6471
STATE OF TEXAS
10/17/25

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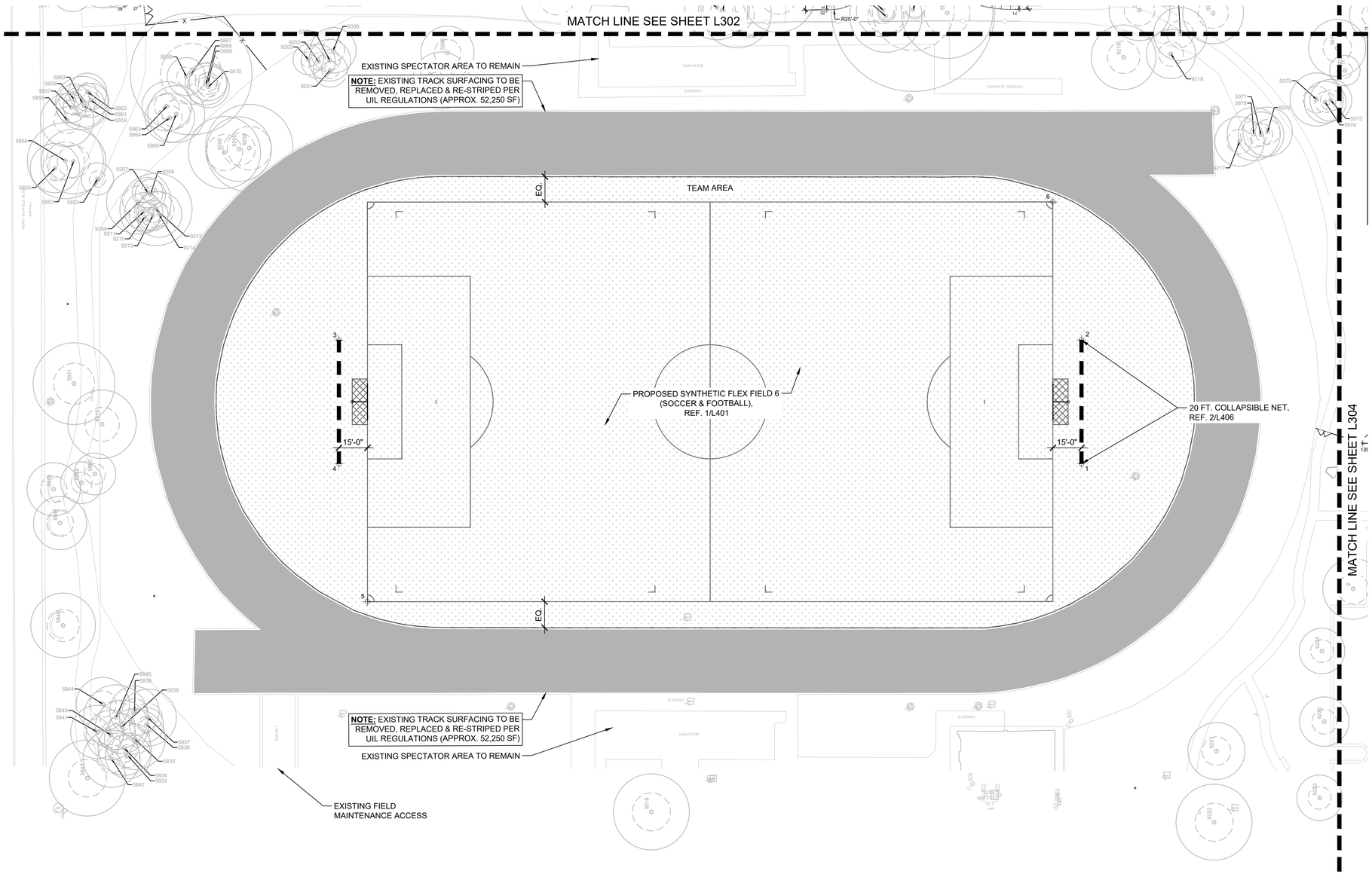
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

FIELD DRAINAGE PLAN
(FIELD 9)

L204B

FILE NAME: A:\60000s\60316\0011\LA\CADD\Sheets\L-PLAN-DRAINAGE-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ah3106 AVO: 31001.005



NORTHING/EASTING POINT SCHEDULE - L301			
POINT	DESCRIPTION	NORTHING	EASTING
1		N 10176531.6473	E 3104655.1041
2		N 10176531.6473	E 3104720.1041
3		N 10176921.6473	E 3104720.0082
4		N 10176921.6473	E 3104655.1041
5		N 10176906.6473	E 3104582.6041
6		N 10176546.6473	E 3104792.6041

CONSTRUCTION LAYOUT / DIMENSION CONTROL NOTES

1. SEE SHEET G003 FOR SURVEY BENCHMARK & CONTROL INFORMATION
2. PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL BE PROVIDED A DISK CONTAINING THE SURVEY AND DESIGN FILES FOR THE PROJECT FROM HALFF ASSOCIATES FOR LAYOUT PURPOSES.
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JOINTING LEGEND

- CONTROL JOINTS (C.J.)
- E.J. — EXPANSION JOINTS (E.J.)

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

0 15 30 60
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS
3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT BRIAN R. BINKOWSKI 1895 STATE OF TEXAS

10/17/25

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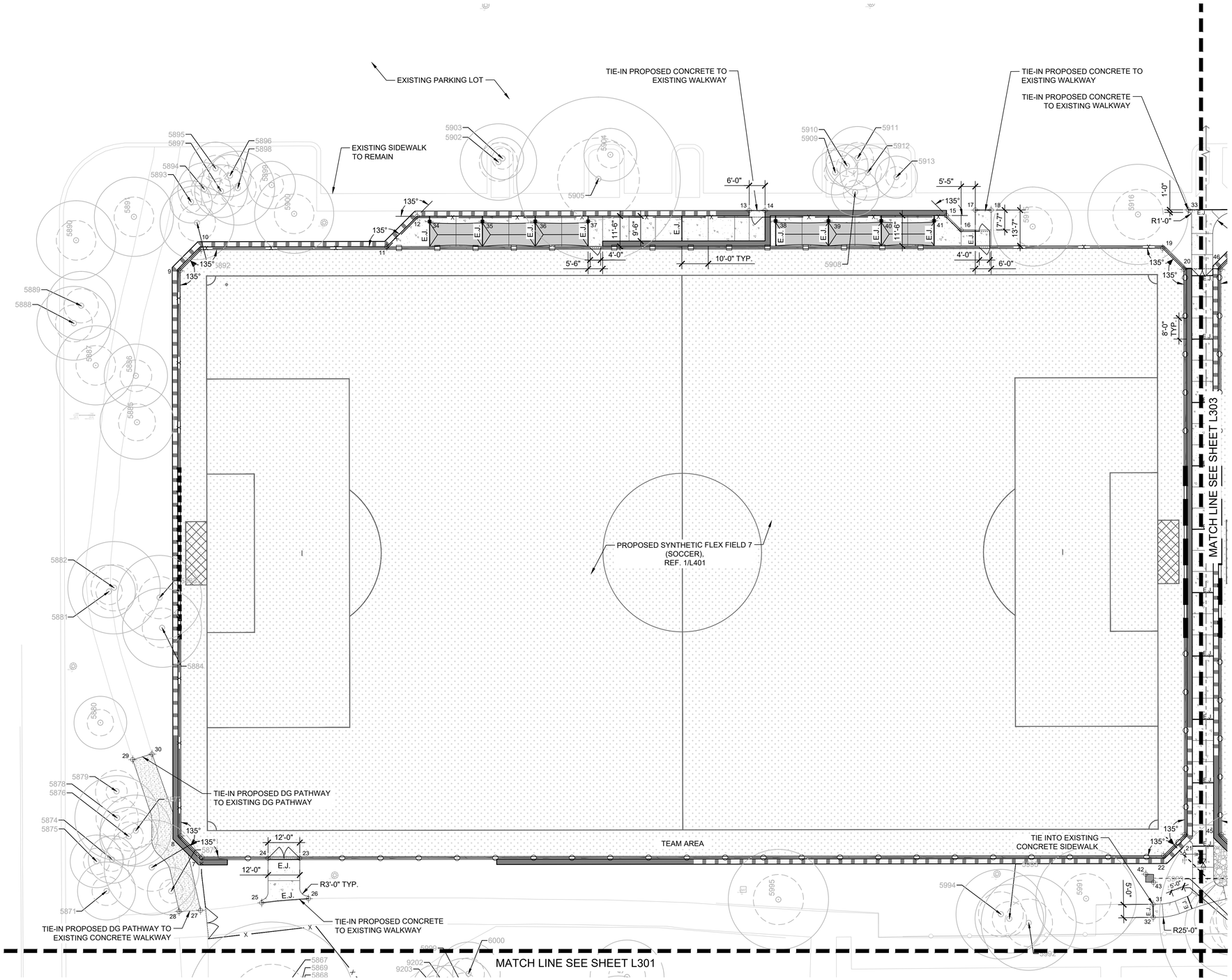
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

LAYOUT & JOINTING PLAN

L301

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DIMS-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ah3106 AVO: 31001.005



NORTHING/EASTING POINT SCHEDULE - L302			
POINT	DESCRIPTION	NORTHING	EASTING
7		N 10177025.5238	E 3104916.5217
8		N 10177033.5352	E 3104924.5104
9		N 10177033.8393	E 3105138.5102
10		N 10177025.8506	E 3105146.5215
11		N 10176955.5592	E 3105147.6214
12		N 10176944.0756	E 3105159.1377
13		N 10176818.3715	E 3105161.3163
14		N 10176812.3715	E 3105161.3249
15		N 10176743.6616	E 3105159.4225
16		N 10176738.1538	E 3105153.9303
17		N 10176732.7862	E 3105161.5014
18		N 10176726.7862	E 3105161.4917
19		N 10176661.8510	E 3105147.0387
20		N 10176653.8396	E 3105139.0501
21		N 10176653.5356	E 3104925.0503
22		N 10176661.5242	E 3104917.0390
23		N 10176988.5343	E 3104916.0743
24		N 10177000.5343	E 3104916.0573
25		N 10177002.9369	E 3104899.1847
26		N 10176985.2314	E 3104900.7487
27		N 10177026.0996	E 3104896.3255
28		N 10177034.2023	E 3104895.9289
29		N 10177051.7490	E 3104953.3586
30		N 10177044.4477	E 3104955.4589
31		N 10176665.4839	E 3104898.6318
32		N 10176665.4111	E 3104893.6619
33		N 10176652.1552	E 3105161.5888
34		N 10176939.3664	E 3105157.1437
35		N 10176919.3657	E 3105157.1728
36		N 10176899.3657	E 3105157.2012
37		N 10176879.3657	E 3105157.2297
38		N 10176808.3658	E 3105157.3313
39		N 10176788.3665	E 3105157.3583
40		N 10176768.3658	E 3105157.3874
41		N 10176748.3658	E 3105157.4165
42		N 10176668.2513	E 3104910.0089
43		N 10176665.3075	E 3104906.9540

CONSTRUCTION LAYOUT / DIMENSION CONTROL NOTES

1. SEE SHEET G003 FOR SURVEY BENCHMARK & CONTROL INFORMATION
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JOINTING LEGEND

- CONTROL JOINTS (C.J.)
- E.J. EXPANSION JOINTS (E.J.)

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS
3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN M. BINKOWSKI
5895
STATE OF TEXAS
10/17/25

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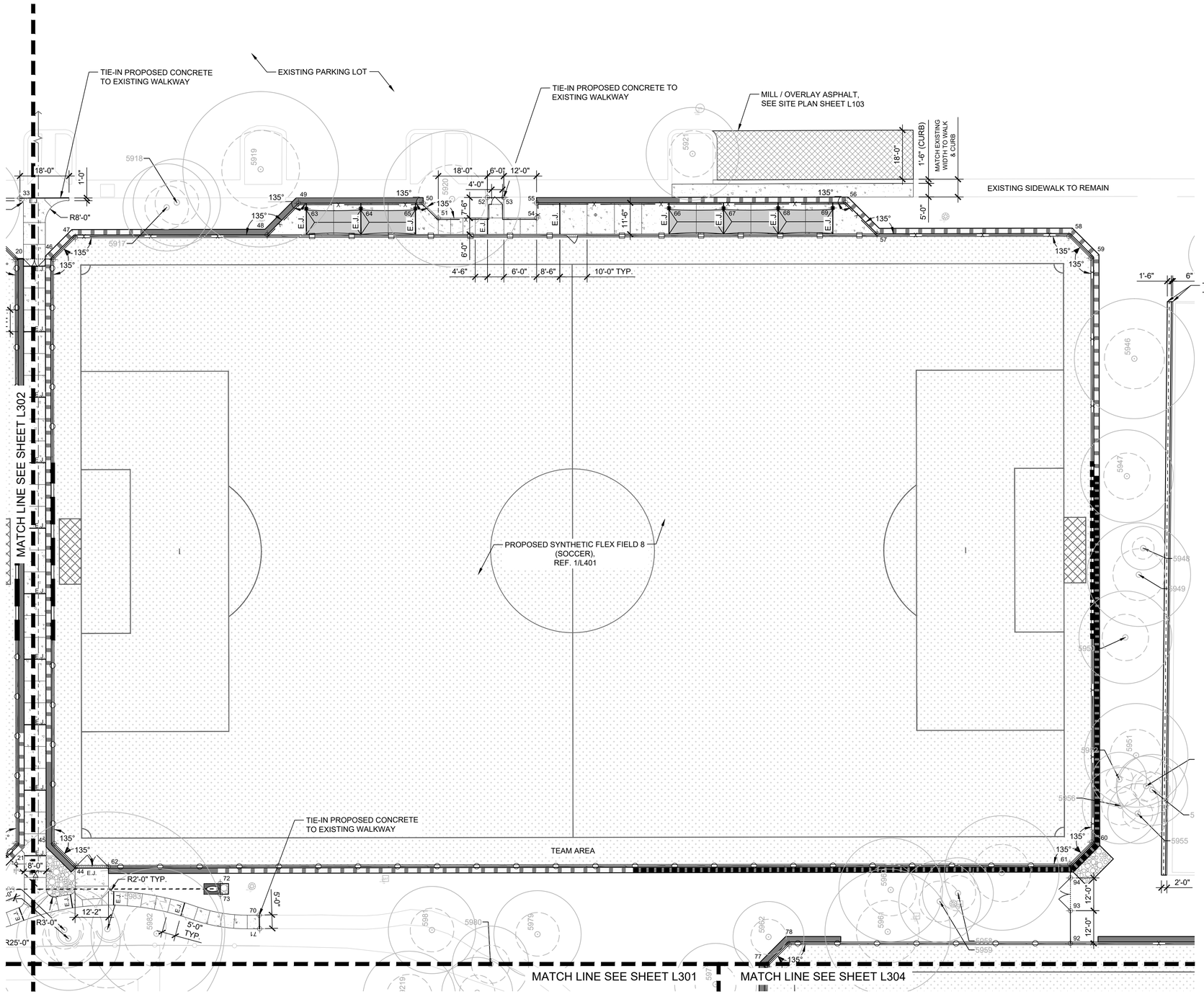
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

LAYOUT & JOINTING PLAN

L302

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DIMS-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ah3106 AVO: 31001.005



NORTHING/EASTING POINT SCHEDULE - L303			
POINT	DESCRIPTION	NORTHING	EASTING
44		N 10176631.5242	E 3104917.0816
45		N 10176639.5356	E 3104925.0702
46		N 10176639.8397	E 3105139.0700
47		N 10176631.8510	E 3105147.0813
48		N 10176561.5596	E 3105148.1812
49		N 10176550.0760	E 3105159.6976
50		N 10176504.4019	E 3105159.7625
51		N 10176498.8941	E 3105154.2703
52		N 10176480.8718	E 3105161.7959
53		N 10176474.8718	E 3105161.8044
54		N 10176462.8612	E 3105154.3215
55		N 10176462.8690	E 3105159.8215
56		N 10176349.6620	E 3105159.9823
57		N 10176338.1456	E 3105148.4987
58		N 10176267.8514	E 3105147.5986
59		N 10176259.8400	E 3105139.6099
60		N 10176259.5360	E 3104925.6102
61		N 10176267.5246	E 3104917.5988
62		N 10176619.7306	E 3104916.5983
63		N 10176547.2368	E 3105157.7005
64		N 10176527.2361	E 3105157.7304
65		N 10176507.2368	E 3105157.7581
66		N 10176414.3662	E 3105157.8907
67		N 10176394.3669	E 3105157.9184
68		N 10176374.3669	E 3105157.9462
69		N 10176354.3669	E 3105157.9746
70		N 10176564.4738	E 3104898.8344
71		N 10176564.3158	E 3104893.8358
72		N 10176578.7495	E 3104910.4181
73		N 10176578.7439	E 3104906.5015

CONSTRUCTION LAYOUT / DIMENSION CONTROL NOTES

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JOINTING LEGEND

- CONTROL JOINTS (C.J.)
- E.J. — EXPANSION JOINTS (E.J.)

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS
3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
5954
STATE OF TEXAS
10/17/25

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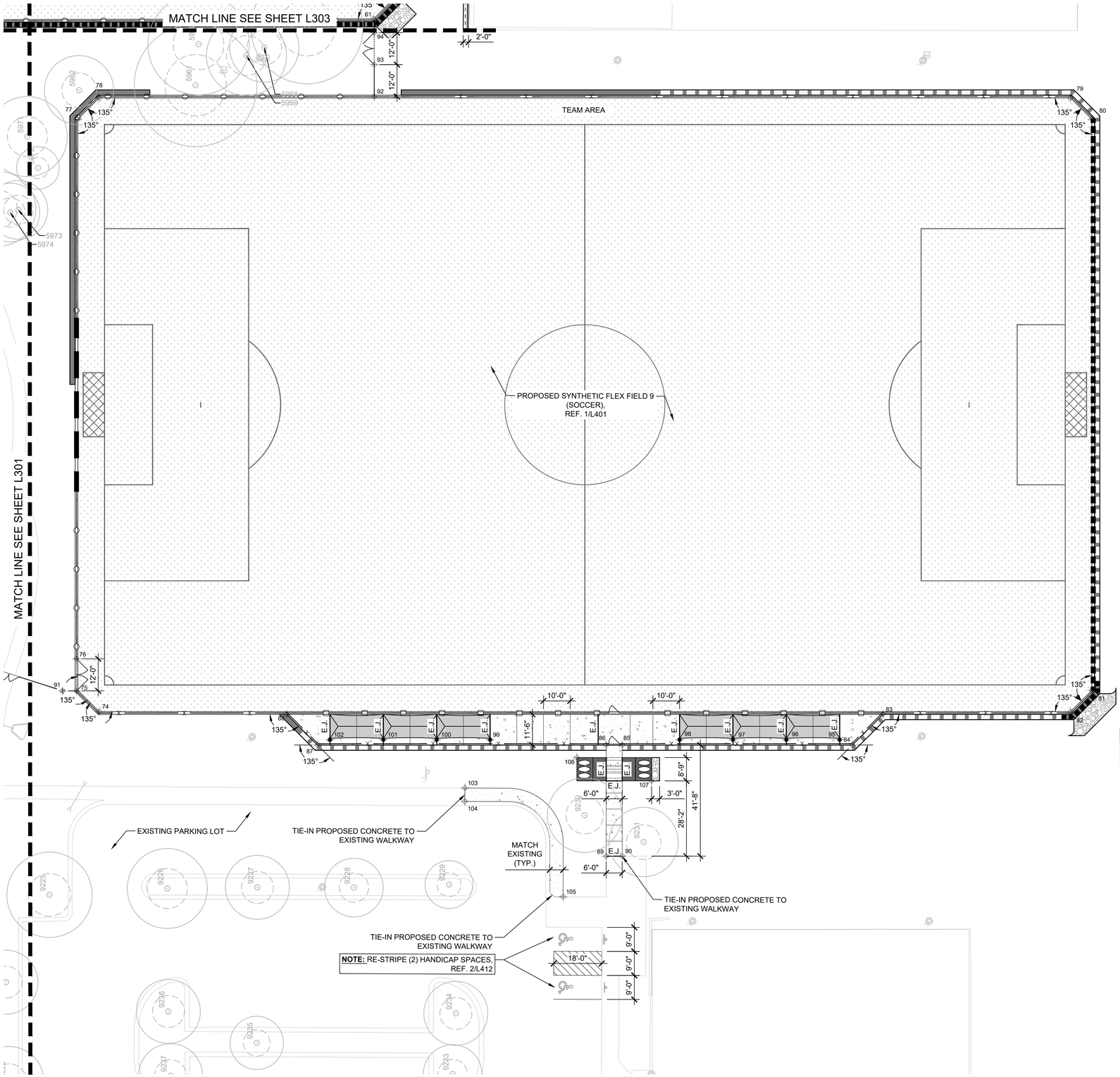
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

LAYOUT & JOINTING PLAN

L303

FILE NAME: A:\60000s\60316\001\LACADD\Sheets\L-PLAN-DIMS-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ak3106 AVO: 31001.005



NORTHING/EASTING POINT SCHEDULE - L304			
POINT	DESCRIPTION	NORTHING	EASTING
74		N 10176370.3704	E 3104658.0101
75		N 10176378.8704	E 3104665.8030
76		N 10176378.8704	E 3104677.8030
77		N 10176378.3704	E 3104880.0101
78		N 10176370.3704	E 3104888.0101
79		N 10176006.3704	E 3104888.0101
80		N 10175998.3704	E 3104880.0101
81		N 10175998.3704	E 3104666.0101
82		N 10176006.3704	E 3104658.0101
83		N 10176076.6633	E 3104657.0101
84		N 10176088.1633	E 3104645.5101
85		N 10176174.3704	E 3104645.5101
86		N 10176180.3704	E 3104645.5101
87		N 10176288.5775	E 3104645.5101
88		N 10176300.0775	E 3104657.0101
89		N 10176180.3704	E 3104603.8577
90		N 10176174.3704	E 3104603.8577
91		N 10176384.0758	E 3104665.8030
92		N 10176267.3113	E 3104888.5101
93		N 10176267.3113	E 3104900.4714
94		N 10176267.3113	E 3104912.4714
95		N 10176092.8704	E 3104647.5101
96		N 10176112.8704	E 3104647.5101
97		N 10176132.8704	E 3104647.5101
98		N 10176152.8704	E 3104647.5101
99		N 10176223.8704	E 3104647.5101
100		N 10176243.8704	E 3104647.5101
101		N 10176263.8704	E 3104647.5101
102		N 10176283.8704	E 3104647.5101
103		N 10176233.3419	E 3104629.3618
104		N 10176233.3599	E 3104624.3619
105		N 10176196.5040	E 3104588.6399
106		N 10176191.3704	E 3104640.8107
107		N 10176163.3704	E 3104632.0607

CONSTRUCTION LAYOUT / DIMENSION CONTROL NOTES

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JOINTING LEGEND

CONTROL JOINTS (C.J.)

E.J. EXPANSION JOINTS (E.J.)

LEGEND

PROPERTY LINE

RETAINING WALLS (0 TO 2 FT.)

RETAINING WALLS (0 TO 4 FT.)

RETAINING WALLS (4 TO 6 FT.)

1000 TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
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halff
13620 BRIARWICK DRV., SUITE 100
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TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT BRIAN R. BINKOWSKI 2647 1895 STATE OF TEXAS

10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

LAYOUT & JOINTING PLAN

L304

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-DIMS-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ah3106 AVO: 31001.005

AMENITY SPECIFICATIONS:

PRODUCT / VENDOR	ITEM	QTY.	DESCRIPTION
SYNTHETIC TURF - FIELD 6			
SHAW SPORTS TURF - SHOCK PAD	BROCK POWERBASE YSR (FOB BROCK PLANT)	109,760 SF / FIELD **109,760 SF (TOTAL)**	BROCK YSR UNDERLAYMENT PAD
SHAW SPORTS TURF - SYNTHETIC TURF	TF081 LEGION PRO 2.0	87,272 SF / FIELD **261,820 SF (TOTAL)**	SYNTHETIC TURF WITH 2" BOLT POLYETHYLENE MONOFILAMENT AND SLIT FILM FIBER MIXTURE, WITH BROCKFILL INFILL (INCLUDES INSTALLATION)
SYNTHETIC TURF - FIELDS 7, 8 & 9			
SHAW SPORTS TURF - SHOCK PAD	BROCK POWERBASE YSR (FOB BROCK PLANT)	87,272 SF / FIELD **261,820 SF (TOTAL)**	BROCK YSR UNDERLAYMENT PAD
SHAW SPORTS TURF - SYNTHETIC TURF	TF081 LEGION PRO 2.0	87,272 SF / FIELD **261,820 SF (TOTAL)**	SYNTHETIC TURF WITH 2" BOLT POLYETHYLENE MONOFILAMENT AND SLIT FILM FIBER MIXTURE, WITH BROCKFILL INFILL (INCLUDES INSTALLATION)

SUPPLIER CONTACT INFO:

SHAW SPORTS TURF
WWW.SHAWSPORTSTURF.COM
601-416-4767

NOTES:

1. SHAW SPORTS TURF WAS USED AS THE BASIS OF DESIGN, ANY REQUESTS FOR A SUBSTITUTION / EQUAL MUST BE SUBMITTED TO THE OWNER, AND PROJECT LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO THE END OF THE BIDDERS QUESTION / RFI DEADLINE.
2. INSTALL PER MANUFACTURER SPECIFICATIONS & DRAWINGS
3. FOR MARKINGS/COLOR SCHEME, SEE SHEETS L401 (FIELD STRIPING).
4. CONTRACTOR TO PROVIDE FIELD MARKING SUBMITTAL FOR APPROVAL BY OWNER.

SHADE STRUCTURES			
SPECTATOR SHADE CANTILEVER / CAPITAL SHADE	CUSTOM (3) 10'X20' HIP-CANTILEVER - 60' TOTAL	5	FABRIC SHADE SAILS - COLORS TO BE SUBMITTED FOR APPROVAL BY LANDSCAPE ARCHITECT | (3) 10'X20' HIP-CANTILEVER PER FIELD - 60' TOTAL
SPECTATOR SHADE CANTILEVER / CAPITAL SHADE	CUSTOM (2) 10'X20' HIP-CANTILEVER - 60' TOTAL	1	FABRIC SHADE SAILS - COLORS TO BE SUBMITTED FOR APPROVAL BY LANDSCAPE ARCHITECT | (2) 10'X20' HIP-CANTILEVER PER FIELD - 40' TOTAL

SUPPLIER CONTACT INFO:

CAPITAL SHADE
MICHELLE BOTHA
512-937-6460
MICHELLE@CAPITALSHADE.COM
OR APPROVED EQUAL BY LANDSCAPE ARCH.

NOTES:

1. CAPITAL SHADE WAS USED AS THE BASIS OF DESIGN, ANY REQUESTS FOR A SUBSTITUTION / EQUAL MUST BE SUBMITTED TO THE OWNER, AND PROJECT LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO THE END OF THE BIDDERS QUESTION / RFI DEADLINE.
2. INSTALL PER MANUFACTURER SPECIFICATIONS & DRAWINGS
3. SUBMIT SIGNED/SEALED DRAWINGS BY LICENSED ENGINEER FOR REVIEW PRIOR TO ORDERING MATERIALS***.
4. MEET GEOTECH REQUIREMENTS. GEOTECH REPORT INCLUDED IN CONTRACT DOCS.

FIELD FURNISHINGS			
15' L PORTABLE BLEACHERS / STURDI STEEL	A103-00-015 3-ROW	12	3-ROW PORTABLE BLEACHERS | 15' L | 30 SEATING CAPACITY | NO GUARDRAIL

SUPPLIER CONTACT INFO:

STURDI STEEL
MATT STEPHENS
1-800-433-3116
MSTEPHENS@STURDISTEEL.NET
WWW.STURDISTEEL.COM
OR APPROVED EQUAL BY LANDSCAPE ARCH.

NOTES:

1. FOR ALL FURNISHINGS, INSTALL PER MANUFACTURER SPECIFICATIONS & DRAWINGS

FIELD EQUIPMENT - FIELDS 6 - 9 (FOR SOCCER FIELD & HIGH SCHOOL FOOTBALL APPLICATIONS)			
ROTATING FOOTBALL / ROUND SOCCER GOAL SYSTEM / SPORTSFIELD SPECIALITIES	20' UPRIGHT - HIGH SCHOOL MODEL: GPKR20HSRGH	2	ROTATING GOOSENECK HINGED GOALPAK FOOTBALL / ROUND SOCCER GOAL SYSTEM INSTALLED IN A SYNTHETIC TURF APPLICATION | ROTATING FOOTBALL GOAL POST WITH 8' OFFSET GOOSENECK
ROTATING FOOTBALL / ROUND SOCCER GOAL SYSTEM / SPORTSFIELD SPECIALITIES	ROUND FACED SOCCER GOAL MODEL: SG824R	2	SG824R 8' X 24' REGULATION SIZE ROUND FACED SOCCER GOALS WITH SGMKR INTEGRATED SGMOBILE WHEEL KIT
FOOTBALL END ZONE PYLONS / SPORTSFIELD SPECIALITIES	FOOTBALL END ZONE PYLONS (SET OF 4)	1	FOOTBALL END ZONE PYLONS: SET OF FOUR (4) ORANGE VINYL COVERED FOAM FOOTBALL END ZONE PYLONS WITH SELF-STANDING WEIGHTED BASES, 18" H x 4" L x 4" W
KWIK GOAL SOCCER FLAGS / SPORTSFIELD SPECIALITIES	KWIK GOAL SOCCER FLAGS (SET OF 4) PREMIER WEIGHTED MODEL	4	63"H X 1" O.D. HIGH IMPACT, WHITE PVC UPRIGHT | INCLUDES BLACK 12" DIAMETER HIGH DENSITY WEIGHTED RUBBER BASE | IDEAL FOR SYNTHETIC TURF FIELD APPLICATIONS

SUPPLIER CONTACT INFO:

SPORTSFIELD SPECIALITIES
PO BOX 231
DELHI, NY
888-975-3343
OR APPROVED EQUAL BY LANDSCAPE ARCH.

NOTES:

1. INSTALL PER MANUFACTURER SPECIFICATIONS & DRAWINGS
2. FOOTBALL GOAL POST COLOR: POWDER COATED YELLOW

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION

NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6547
STATE OF TEXAS

10/17/25

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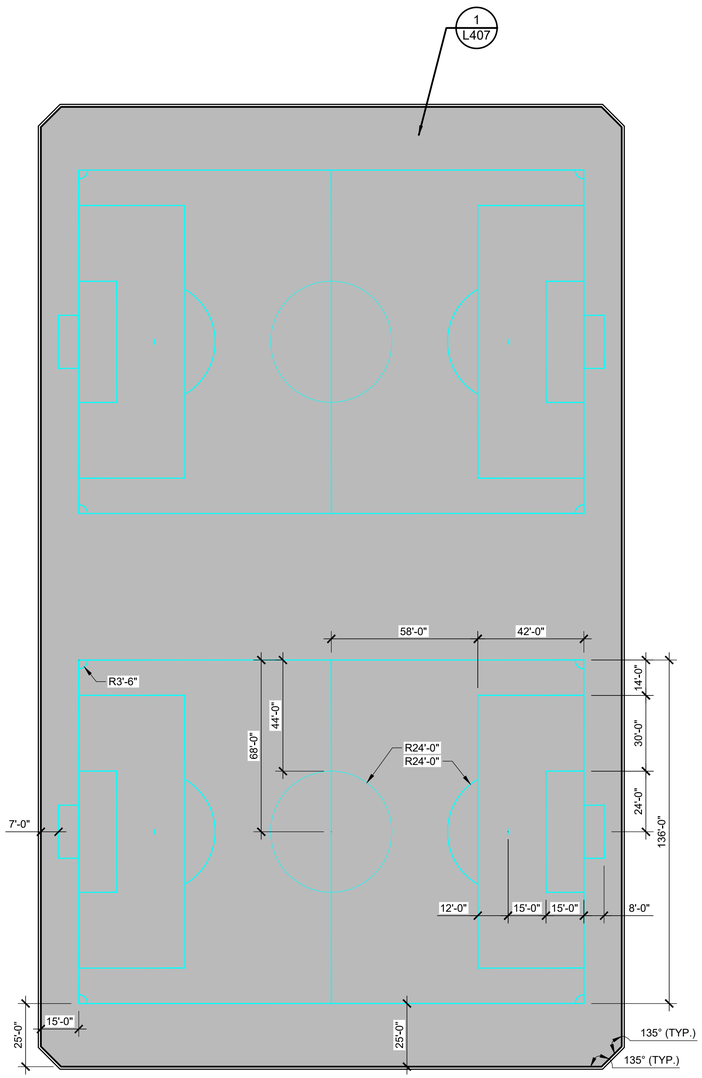
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

AMENITY TABLE

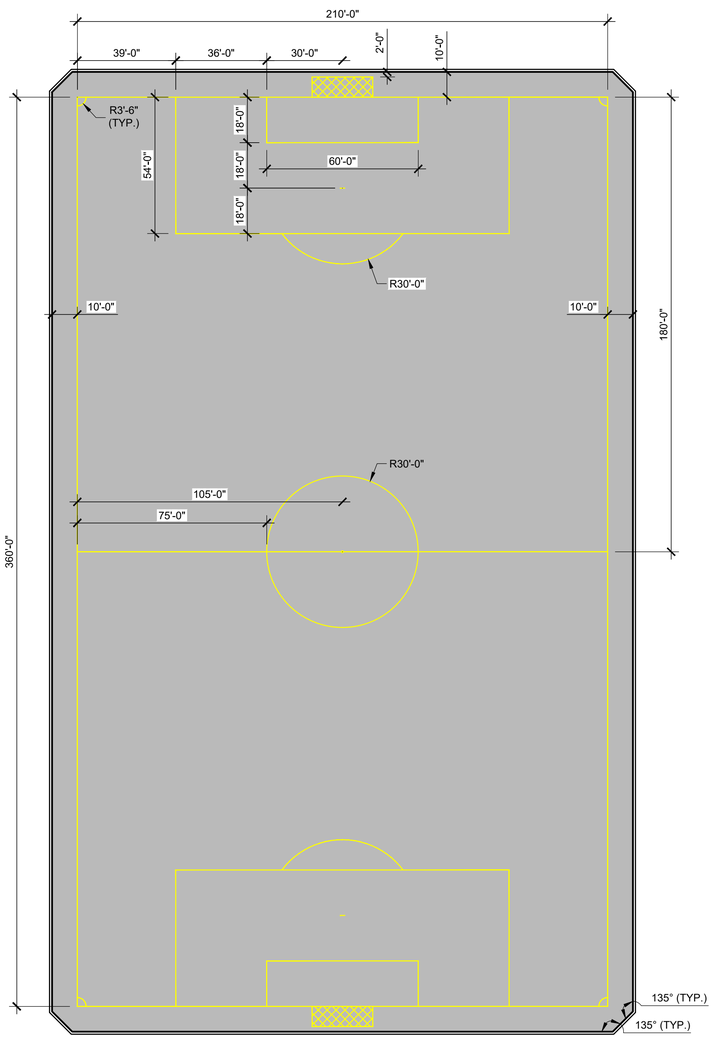
L400

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ah3106 AVO: 31001.005



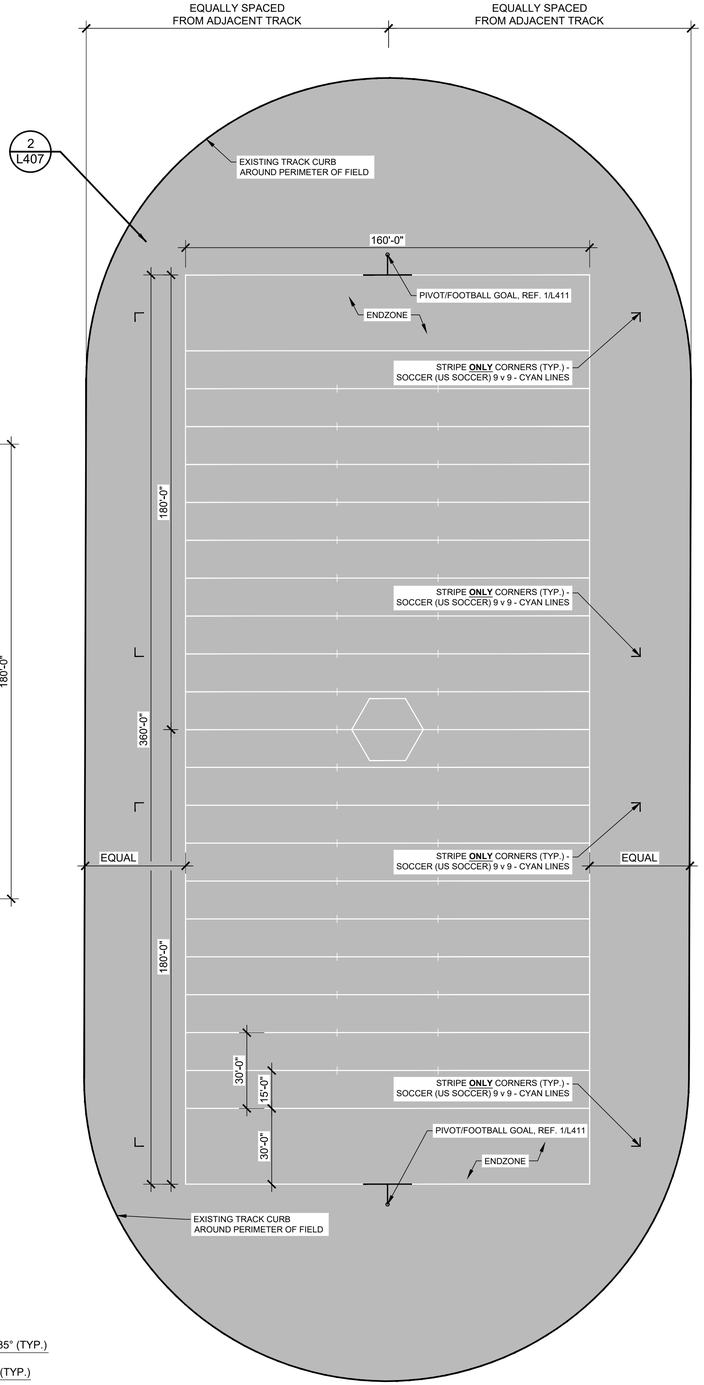
PLAN VIEW: SOCCER - *FIELDS 7, 8, & 9*

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- 200 FT. L X 136 FT. W
- (2) FIELDS



PLAN VIEW: SOCCER - *FIELDS 6, 7, 8, & 9*

SOCCER (FIFA & US SOCCER) 11 v11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES



PLAN VIEW: STRIPING *FIELD 6*

FOOTBALL (HIGH SCHOOL) - WHITE LINES
- 360 FT. L X 160 FT. W
- 27 FT. RUN-OUT BEHIND END ZONES

SOCCER (FIFA & US SOCCER) 11 v11 - YELLOW LINES
- 360 FT. L X 210 FT. W
- 10 FT. RUN-OUT BEYOND SIDE/TOUCHLINES

SOCCER (US SOCCER) 9 v 9 - CYAN LINES
- STRIPE ONLY (4) CORNERS OF FIELD(S)

1 SYNTHETIC FLEX FIELD STRIPING (FIELDS 6, 7, 8 & 9 TYP.)

1" = 30'

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION

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REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1895
STATE OF TEXAS

10/17/25

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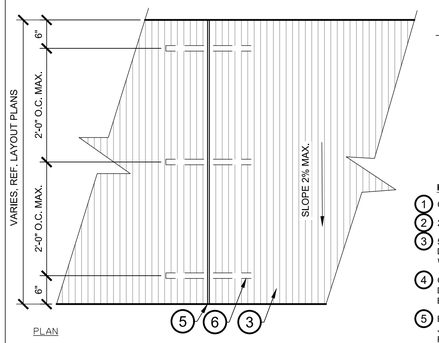
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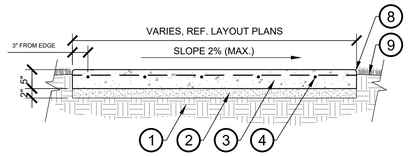
DETAILS

L401

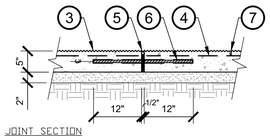
FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ah3106 AVO: 31001.005



PLAN



TYPICAL CROSS SECTION



JOINT SECTION

KEY:

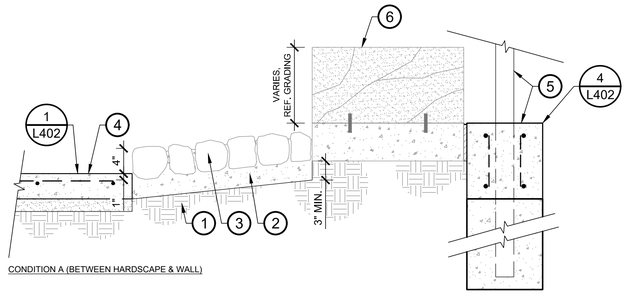
1. COMPACTED SUBGRADE TO 95% MIN. DENSITY.
2. 2" THICK MINIMUM SAND OR DRY SCREENING LEVELING BED.
3. 5" CONCRETE, 3500 PSI | UNCONFINED COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS. MEDIUM BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL ON SINGLE RUN WALKWAYS.
4. ONE LAYER #3 BARS PLACED NOT MORE THAN 24" O.C. BOTH DIRECTIONS (TYP.) REINF. TO BE PLACED 1/3 THE SLAB THICKNESS BELOW FINISHED SURFACE ON PLASTIC CHAIRS.
5. EXPANSION JOINT - 1/2" CEDAR EXPANSION JOINT WITH REMOVABLE ZIP STRIP, CAULK JOINT, COLOR TO MATCH CONCRETE COLOR; REF. PLANS FOR JOINT LAYOUT REF. SITE PLAN FOR JOINT LOCATIONS.
6. 3/8" x 12" DOWEL @ 18" O.C. MIN.; RIBBED END
7. 1/4" WIDE CONTROL JOINT, TOOLED JOINTS. TO EXTEND 1/4" DEPTH OF THE THICKNESS OF THE CONCRETE . REF. SITE PLAN FOR LOCATIONS.
8. RADIUS TOOL ON ALL EXPOSED EDGES
9. FINISHED GRADE, 1" BELOW PAVEMENT ELEVATION.

NOTES:

1. STEEL REINFORCEMENTS SHALL NEVER REST DIRECTLY ON SUBGRADE.
2. CONTRACTOR SHALL PREVENT ANY ORGANIC MATTER FROM FALLING INTO CONCRETE CAUSING VOIDS.

1 CONCRETE WALKWAY & EXPANSION JOINT

3/4" = 1'-0"



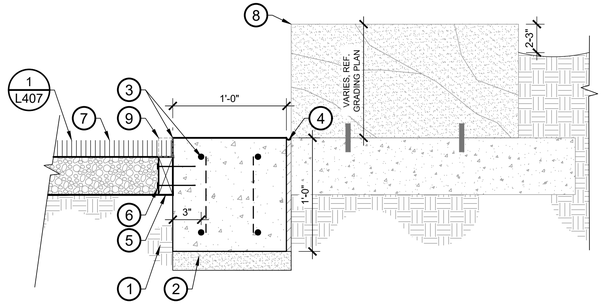
CONDITION A (BETWEEN HARDSCAPE & WALL)

KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY.
2. CONCRETE SLURRY POUR, 3" MIN. POUR CONCRETE PRIOR TO PLACING ROCK RIP RAP
3. 5" TO 8" LIMESTONE RIP RAP IN A SINGLE LAYER
4. ADJACENT CONCRETE WALKWAY, SEE DETAIL
5. CHAINLINK FENCE TYPE VARIES (REF PLANS), ON 12" W x 12" D RIBBON CURB, SEE DETAIL
6. ADJACENT QUARRY BLOCK WALL, REF. STRUCTURAL

2 MORTARED ROCK RIP-RAP

1" = 1'-0"



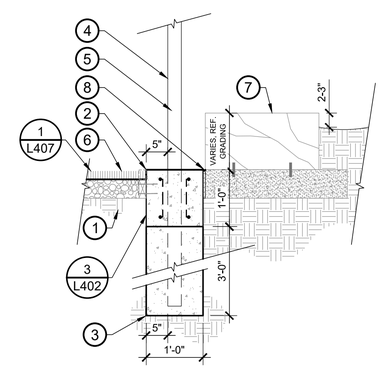
SYNTHETIC TURF TO CURB SECTION:

KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY.
2. 2" THICK MINIMUM SAND OR DRY SCREENING LEVELING BED.
3. CONCRETE RIBBON CURB - 3500 PSI MIN., (2) #4 BARS CONTINUOUS, TIE HORIZ. W/ #3 BARS EVERY 6" O.C. CONTROL JOINTS EVERY 10' AND EXPANSIONS JOINTS EVERY 30'
4. 1/2" EXPANSION JOINT, REFER TO DETAIL
5. SYNTHETIC NAILER BOARD - 2" x 4"
6. 16D GALVANIZED NAILS
7. SYNTHETIC TURF
8. ADJACENT QUARRY BLOCK WALL, REF. STRUCTURAL
9. 2" x 2" REMOVED AFTER BASE COMPLETION

3 RIBBON CURB / NAILER - SYNTHETIC TURF TO CURB SECTION (INSIDE FIELD)

1 1/2" = 1'-0"



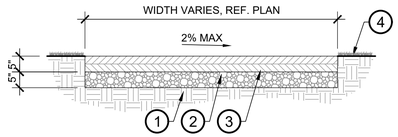
FENCE POST ON RIBBON CURB SECTION:

KEY:

1. COMPACTED SUBGRADE TO 95% MAX. DENSITY.
2. CONCRETE RIBBON CURB, REFER TO DETAIL
3. CONCRETE FOOTING, 3500 PSI AS PER DIMENSIONS
4. CHAINLINK FENCE - TYPE OF FENCE VARIES, REF. SITE PLAN
5. 2-7/8" O.D. GALVANIZED VERTICAL ROUND HOLLOW STEEL PIPE, SET INTO RIBBON CURB
6. SYNTHETIC TURF, REFER TO DETAIL
7. ADJACENT QUARRY BLOCK WALL, REF. STRUCTURAL
8. EXPANSION JOINT, REF. DTL 1/ L402

4 CHAINLINK FENCE POST IN RIBBON CURB (INSIDE FIELD)

3/4" = 1'-0"



KEY:

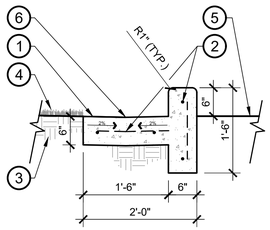
1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 5" THICK CRUSHED LIMESTONE BASE (MAY BE OMITTED WHEN ROCK SUBGRADE IS ENCOUNTERED)
3. 5" DECOMPOSED GRANITE, WET AND COMPACTED TO 3" DEPTH CROSS SLOPE @ 1/4" PER FOOT. REFER NOTE.
4. ADJACENT CONDITION VARIES, REF. PLAN

NOTES:

1. RUNNING SLOPE OF TRAIL SHALL NOT EXCEED 5%; CROSS SLOPE OF TRAIL SHALL NOT EXCEED 2%.
2. DECOMPOSED GRANITE TRAILS AND SURFACES SHALL BE WETTED AND COMPACTED TO FORM A STABLE, FIRM AND SLIP RESISTANT SURFACE WHEN DRY AND PRIOR TO ACCESSIBILITY INSPECTION AND FINAL ACCEPTANCE. REFER 2012 TEXAS ACCESSIBILITY STANDARDS, SECTION 302.

5 DECOMPOSED GRANITE PATH

1/2" = 1'-0"



KEY:

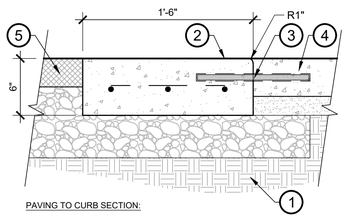
1. 28-DAY CONCRETE STRENGTH = 3000 PSI. MONOLITHIC CONCRETE POUR FOR CURB & FLUME
2. #3 BARS @ 12" O.C.E.W.
3. COMPACTED SUBGRADE TO 95% STANDARD PROCTOR
4. ADJACENT LANDSCAPE
5. EXISTING PICKLEBALL COURT
6. REF. GRADING PLANS FOR ELEVATIONS

NOTES:

1. EXPANSION JOINTS AT 60'-0" O.C.

6 STANDARD FLUME WITH 6 INCH CURB

3/4" = 1'-0"



PAVING TO CURB SECTION:

KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY.
2. CONCRETE RIBBON CURB (PAVING TO CURB SECTIONS) - 3000 PSI MIN., (4) #4 HORIZ BARS CONTINUES, TIE VERT. W/ #3 BARS EVERY 18" O.C.
3. COLD JOINT - 1/2" DIA. SMOOTH DOWEL 18" LENGTH AT 24" O.C. MIN., TO ADJACENT PAVEMENT, GREASE AND CAP FULL LENGTH OF EXPOSED DOWEL.
4. ADJACENT WALKWAY, REF. PLAN
5. ADJACENT EXISTING PARKING LOT, MATCH ASPHALT TO MATCH TOP OF NEW CURB.

7 RIBBON CURB AT EXISTING PARKING

1 1/2" = 1'-0"

P-TR-SRP-31

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2289
STATE OF TEXAS

10/17/25

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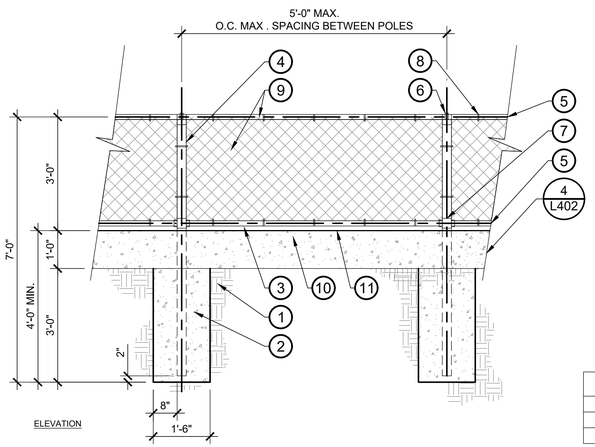
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SHEET TITLE

DETAILS

L402

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ah3106 AVO: 31001.005



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 18" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 2" MAX GAP FROM BOTTOM OF CHAINLINK MESH TO TOP OF CONCRETE MOWSTRIP
4. 2-7/8" O.D. GALVANIZED VERTICAL ROUND HOLLOW STEEL PIPE
5. 2" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE (TOP & BOTTOM RAILS)
6. 2-7/8" X 1-5/8" LOOP CAPS
7. 2-7/8" X 1-5/8" LINE RAIL CLAMPS
8. WIRE TIES 16" O.C. TYP.
9. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
10. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
11. FINISH GRADE

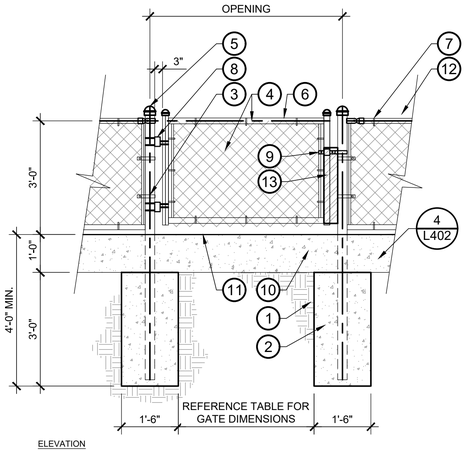
NOTES:

1. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
3. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
4. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
5. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

1 3` VINYL COATED, CHAINLINK FENCE (ON RIBBON CURB)

1/2" = 1'-0"



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 12" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 4" DIA. STEEL POST, VERTICAL BEAM WITH 4" SQUARE ALUMINIUM TENSION BANDS AT 16" O.C. POST TO BE LOCATED AT 10'-0" O.C. MAX.
4. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
5. GALVANIZED STEEL CAPS, TYP.
6. 1-7/8" O.D. GALVANIZED O.D. FRAME
7. WIRE TIES 16" MAX. O.C. TYP.
8. BULLDOG HINGE, PRESSED STEEL, FOR 4" POST AND 1-3/8" - 1-7/8" GATE, BY NATIONWIDE INDUSTRIES
9. LATCH FORK, LOCK KEEPER, GUIDE (USE APPROPRIATE FOR SINGLE AND DOUBLE GATES) - MATCH EXISTING LATCH AT EXISTING FIELD GATES
10. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
11. FINISH GRADE
12. 3' BLACK, VINYL COATED, CHAINLINK FENCE. REF. PLAN FOR TYPE OF FENCE
13. 24" X 4" X 1/4" FLAT BAR, WELDED TO FIELD SIDE OF 4" DIA. STEEL POST

NOTES:

1. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
3. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
4. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
5. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

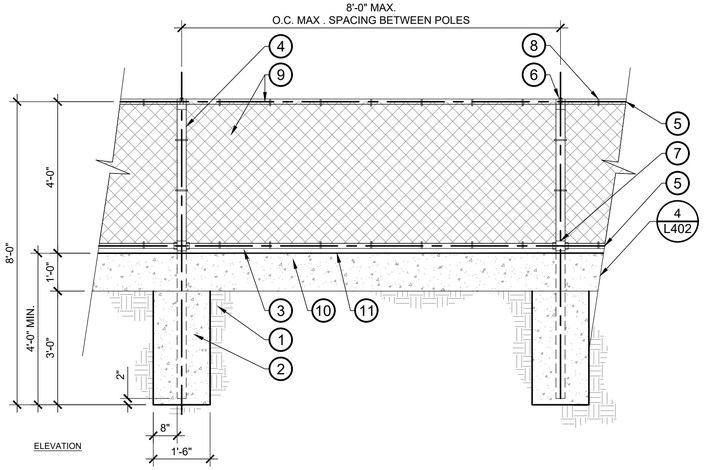
END TREATMENTS	
DOME TOP AT CORNER POSTS	KNUCKLE CHAIN LINK

	SINGLE LEAF GATES		
OPENING	LEAF	GATE POSTS	HINGE SPACE (S)
FACE TO FACE		SQ & RND SIZES	POST TO UPRIGHT
4'-0"	4 FT	4" OD	ROUND GATE POSTS: 4"

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

2 3' VINYL COATED, SINGLE CHAINLINK GATE

1/2" = 1'-0"



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 18" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 2" MAX GAP FROM BOTTOM OF CHAINLINK MESH TO TOP OF CONCRETE MOWSTRIP
4. 2-7/8" O.D. GALVANIZED VERTICAL ROUND HOLLOW STEEL PIPE
5. 1-5/8" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE (TOP & BOTTOM RAILS)
6. 2-7/8" X 1-5/8" LOOP CAPS
7. 2-7/8" X 1-5/8" LINE RAIL CLAMPS
8. WIRE TIES 16" O.C. TYP.
9. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
10. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
11. FINISH GRADE

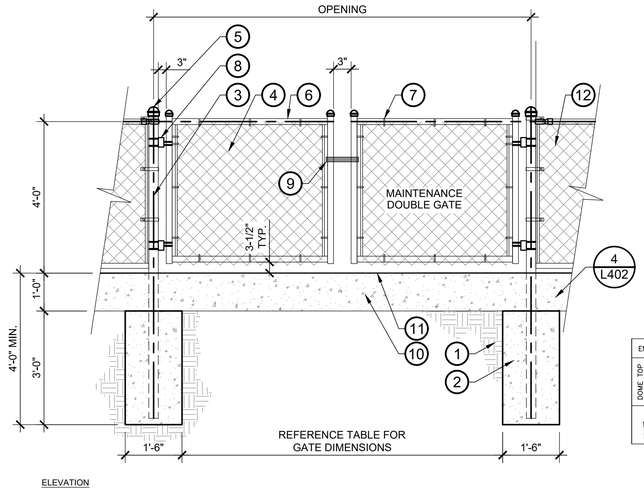
NOTES:

1. ALL FENCE PIPE TO MATCH EXISTING SIZE
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
3. FENCING: BLACK, VINYL COATED CHAINLINK FENCE
4. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAINLINK FENCE)
5. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

3 4` VINYL COATED, CHAINLINK FENCE (ON RIBBON CURB)

1/2" = 1'-0"



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 12" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 4" DIA. STEEL POST, VERTICAL BEAM WITH 4" SQUARE ALUMINIUM TENSION BANDS AT 16" O.C. POST TO BE LOCATED AT 10'-0" O.C. MAX.
4. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
5. GALVANIZED STEEL CAPS, TYP.
6. 1-7/8" O.D. FRAME
7. WIRE TIES 16" O.C. TYP.
8. BULLDOG HINGE (QTY 4), PRESSED STEEL, FOR 4" POST AND 1-3/8" - 1-7/8" GATE, BY NATIONWIDE INDUSTRIES. HINGE TO ALLOW FOR 180 DEGREE OPENING - BOTH DIRECTIONS WITH 180 DEGREE ADAPTER FOR BULLDOG HINGES (QTY 4 - 1 PER HINGE), BY HOOVER FENCE OR APPROVED EQUAL.
9. LATCH FORK, LOCK KEEPER, GUIDE (USE APPROPRIATE FOR SINGLE AND DOUBLE GATES) - MATCH EXISTING LATCH AT EXISTING FIELD GATES
10. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
11. FINISH GRADE
12. 4' BLACK, VINYL COATED, CHAINLINK FENCE

NOTES:

1. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
3. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
4. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
5. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

END TREATMENTS	
DOME TOP AT CORNER POSTS	KNUCKLE CHAIN LINK

	DOUBLE LEAF GATES		
OPENING	LEAF	GATE POSTS	HINGE SPACE (S)
FACE TO FACE		SQ & RND SIZES	POST TO UPRIGHT
12'-0"	6 FT	4" OD	ROUND GATE POSTS: 4"

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

4 4` VINYL COATED, DOUBLE CHAINLINK GATE

1/2" = 1'-0"

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
STATE OF TEXAS

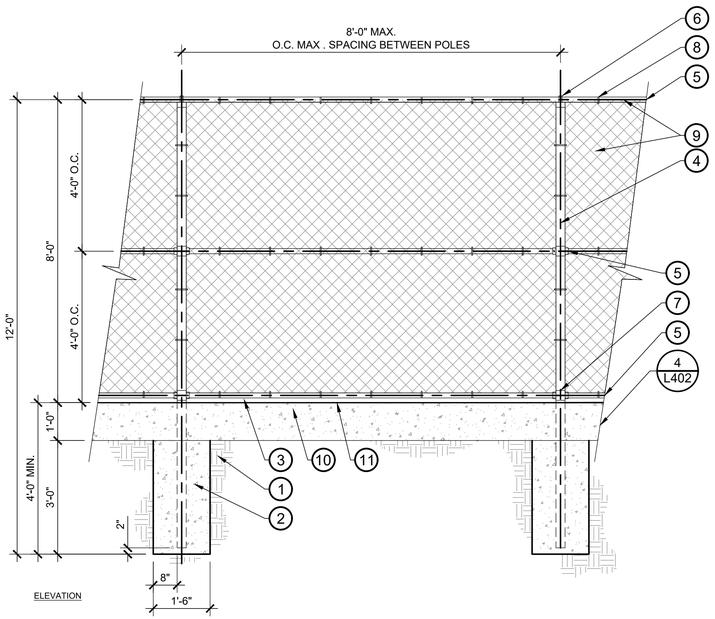
10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN
SHEET TITLE	DETAILS

L403

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ah3106 AVO: 31001.005



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 18" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 2" MAX GAP FROM BOTTOM OF CHAINLINK MESH TO TOP OF CONCRETE MOWSTRIP
4. 2-7/8" O.D. GALVANIZED VERTICAL ROUND HOLLOW STEEL PIPE
5. 1-5/8" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE (TOP, MIDDLE & BOTTOM RAILS)
6. 2-7/8" X 1-5/8" LOOP CAPS
7. 2-7/8" X 1-5/8" LINE RAIL CLAMPS
8. WIRE TIES 16" O.C. TYP.
9. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
10. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
11. FINISH GRADE

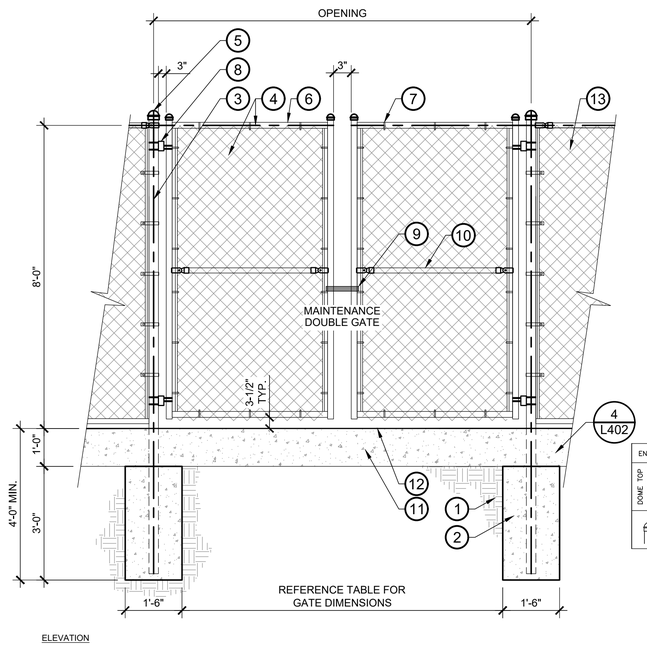
NOTES:

1. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
3. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
4. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
5. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

1 8` VINYL COATED, CHAINLINK FENCE (ON RIBBON CURB)

1/2" = 1'-0"



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 12" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 4" DIA. STEEL POST, VERTICAL BEAM WITH 4" SQUARE ALUMINIUM TENSION BANDS AT 16" O.C. POST TO BE LOCATED AT 10'-0" O.C. MAX.
4. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
5. GALVANIZED STEEL CAPS, TYP.
6. 1-7/8" O.D. FRAME
7. WIRE TIES 16" O.C. TYP.
8. BULLDOG HINGE (QTY 4), PRESSED STEEL, FOR 4" POST AND 1-3/8" - 1-7/8" GATE, BY NATIONWIDE INDUSTRIES. HINGE TO ALLOW FOR 180 DEGREE OPENING - BOTH DIRECTIONS WITH 180 DEGREE ADAPTER FOR BULLDOG HINGES (QTY 4 - 1 PER HINGE), BY HOOVER FENCE OR APPROVED EQUAL.
9. LATCH FORK, LOCK KEEPER, GUIDE (USE APPROPRIATE FOR SINGLE AND DOUBLE GATES) - MATCH EXISTING LATCH AT EXISTING FIELD GATES
10. 1-5/8" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE
11. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
12. FINISH GRADE
13. 8' BLACK, VINYL COATED, CHAINLINK FENCE

NOTES:

1. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
3. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
4. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
5. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

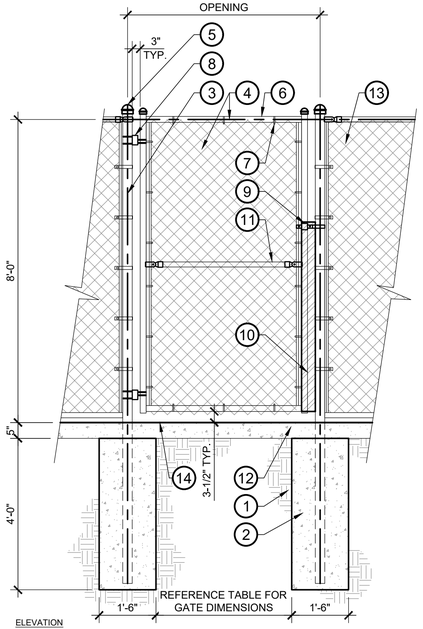
END TREATMENTS	
DOME TOP AT CORNER POSTS	KNUCKLE CHAIN LINK

	DOUBLE LEAF GATES		
OPENING	LEAF	GATE POSTS	HINGE SPACE (S)
FACE TO FACE		SQ & RND SIZES	POST TO UPRIGHT
8'-0"	4 FT	4" OD	ROUND GATE POSTS: 4"
12'-0"	6 FT	4" OD	ROUND GATE POSTS: 4"

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

2 8` VINYL COATED, DOUBLE CHAINLINK GATE

1/2" = 1'-0"



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 12" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 4" DIA. STEEL POST, VERTICAL BEAM WITH 4" SQUARE ALUMINIUM TENSION BANDS AT 16" O.C. POST TO BE LOCATED AT 10'-0" O.C. MAX.
4. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
5. GALVANIZED STEEL CAPS, TYP.
6. 1-7/8" O.D. GALVANIZED O.D. FRAME
7. WIRE TIES 16" O.C. TYP.
8. BULLDOG HINGE, PRESSED STEEL, FOR 4" POST AND 1-3/8" - 1-7/8" GATE, BY NATIONWIDE INDUSTRIES
9. LATCH FORK, LOCK KEEPER, GUIDE (USE APPROPRIATE FOR SINGLE AND DOUBLE GATES)
10. 60" X 4" X 1/4" FLAT BAR, WELDED TO FIELD SIDE OF 4" DIA. STEEL POST
11. 1-5/8" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE
12. CONCRETE WALKWAY, PLACE FENCE CENTERED ON ADJACENT RIBBON CURB. REF. PLAN
13. 8' BLACK, VINYL COATED, CHAINLINK FENCE. REF. PLAN FOR TYPE OF FENCE
14. FINISH GRADE

NOTES:

1. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
3. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
4. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
5. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

END TREATMENTS	
DOME TOP AT CORNER POSTS	KNUCKLE CHAIN LINK

	SINGLE LEAF GATES		
OPENING	LEAF	GATE POSTS	HINGE SPACE (S)
FACE TO FACE		SQ & RND SIZES	POST TO UPRIGHT
4'-0"	4 FT	4" OD	ROUND GATE POSTS: 4"

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

3 8' VINYL COATED, SINGLE CHAINLINK GATE

1/2" = 1'-0"

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1895
STATE OF TEXAS

10/17/25

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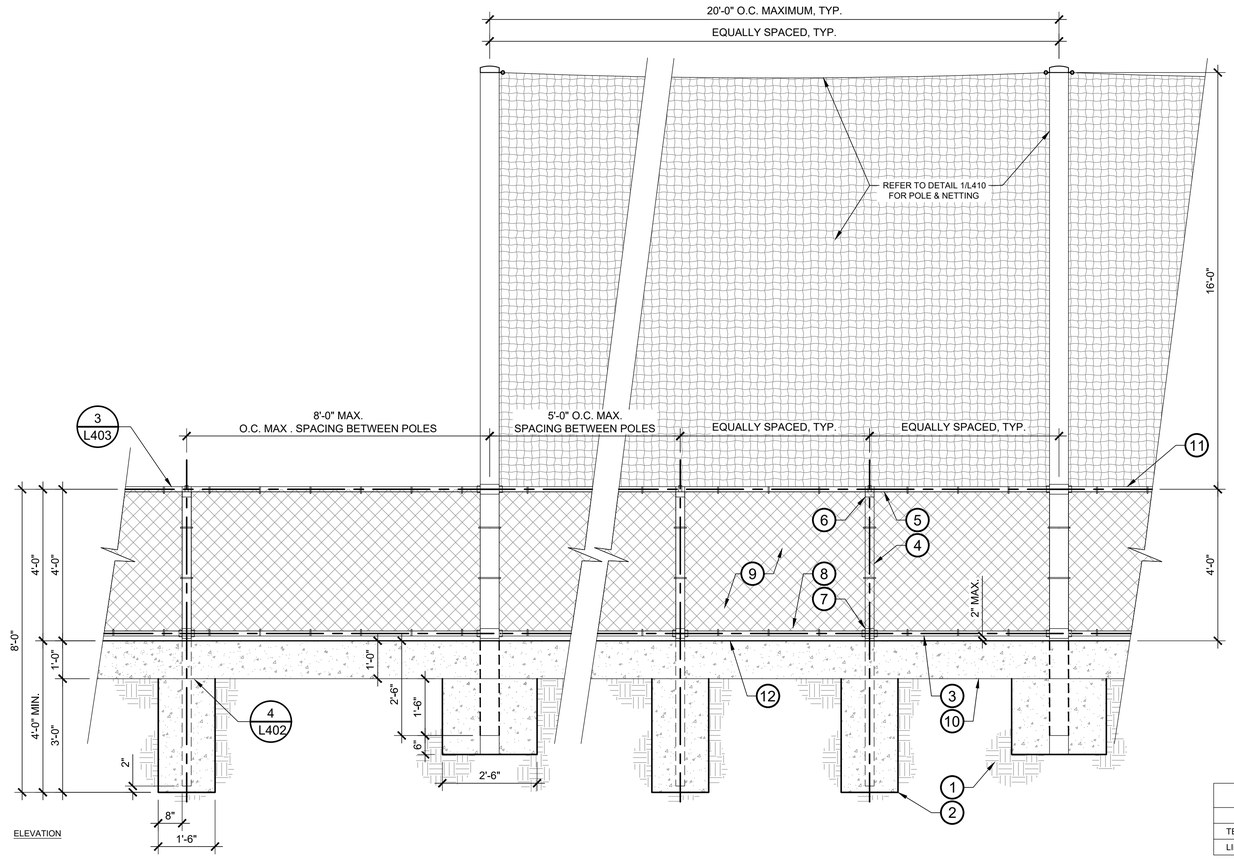
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

DETAILS

L404

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ah3106 AVO: 31001.005



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 18" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 2" MAX GAP FROM BOTTOM OF CHAINLINK MESH TO TOP OF CONCRETE MOWSTRIP
4. 2-7/8" O.D. GALVANIZED VERTICAL ROUND HOLLOW STEEL PIPE
5. 1-5/8" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE (TOP & BOTTOM RAILS)
6. 2-7/8" X 1-5/8" LOOP CAPS
7. 2-7/8" X 1-5/8" LINE RAIL CLAMPS
8. WIRE TIES 16" O.C. TYP.
9. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
10. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
11. MESH NETTING SHALL CONNECT TO TOP OF FENCE WITH ZIP TIES EVERY 2'-0" MAX. O.C.
12. FINISH GRADE

NOTES:

1. ALL FENCE PIPE TO MATCH EXISTING SIZE
2. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
3. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
4. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
5. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
6. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

1 4 FT. CHAINLINK FENCE WITH 16 FT. PROTECTIVE NETTING

1/2" = 1'-0"

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6995
STATE OF TEXAS

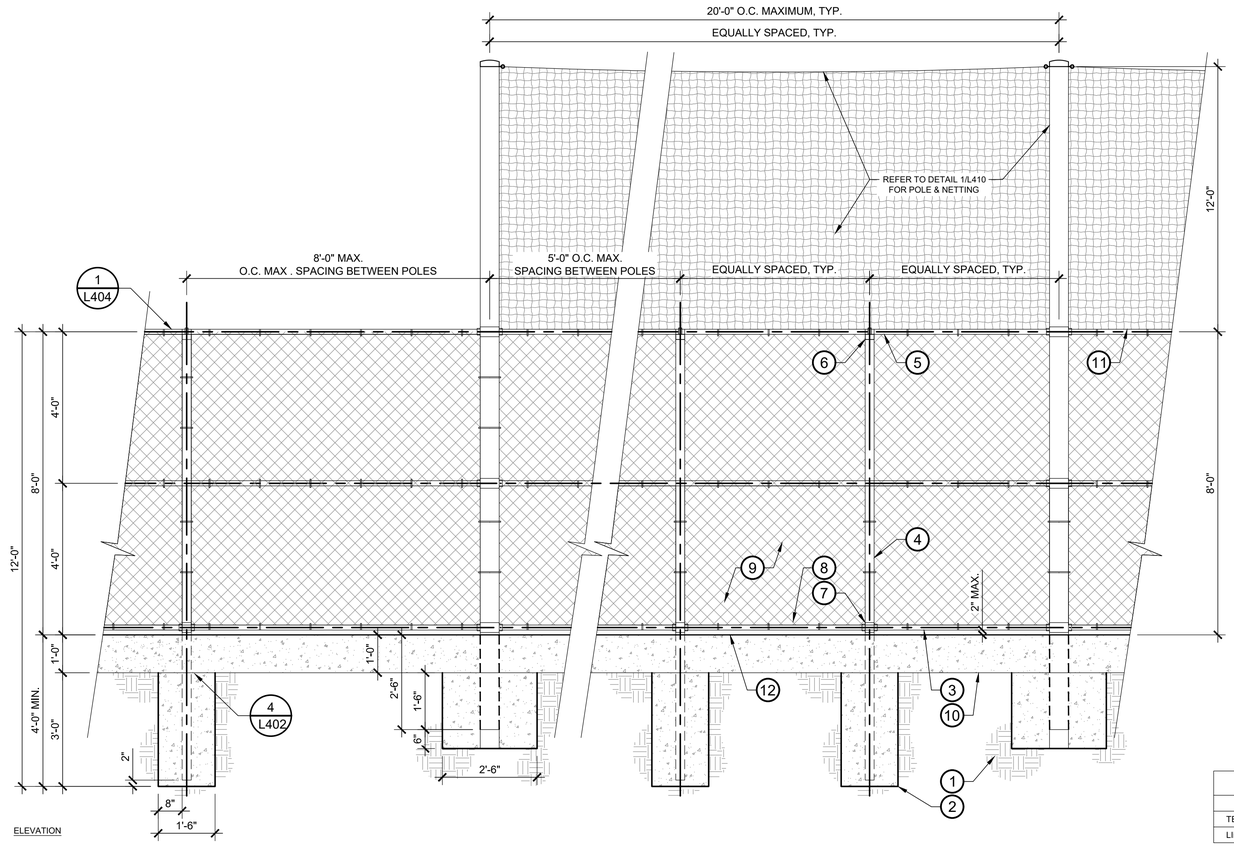
10/17/25

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SHEET TITLE	
DETAILS	

L405

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ak3106 AVO: 31001.005



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 18" WIDE CONCRETE FOOTING (SEE CHART), 3500 PSI MIN.
3. 2" MAX GAP FROM BOTTOM OF CHAINLINK MESH TO TOP OF CONCRETE MOWSTRIP
4. 2-7/8" O.D. GALVANIZED VERTICAL ROUND HOLLOW STEEL PIPE
5. 1-5/8" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE (TOP & BOTTOM RAILS)
6. 2-7/8" X 1-5/8" LOOP CAPS
7. 2-7/8" X 1-5/8" LINE RAIL CLAMPS
8. WIRE TIES 16" O.C. TYP.
9. 6 GAUGE 2" DIA. DIAMOND MESH CHAIN LINK FENCE. MESH KNUCKLES TO BE 1" BELOW TOP OF TOP RAIL.
10. CONCRETE RIBBON CURB 12" THICK, PLACE FENCE CENTERED ON RIBBON CURB
11. MESH NETTING SHALL CONNECT TO TOP OF FENCE WITH ZIP TIES EVERY 2'-0" MAX. O.C.
12. FINISH GRADE

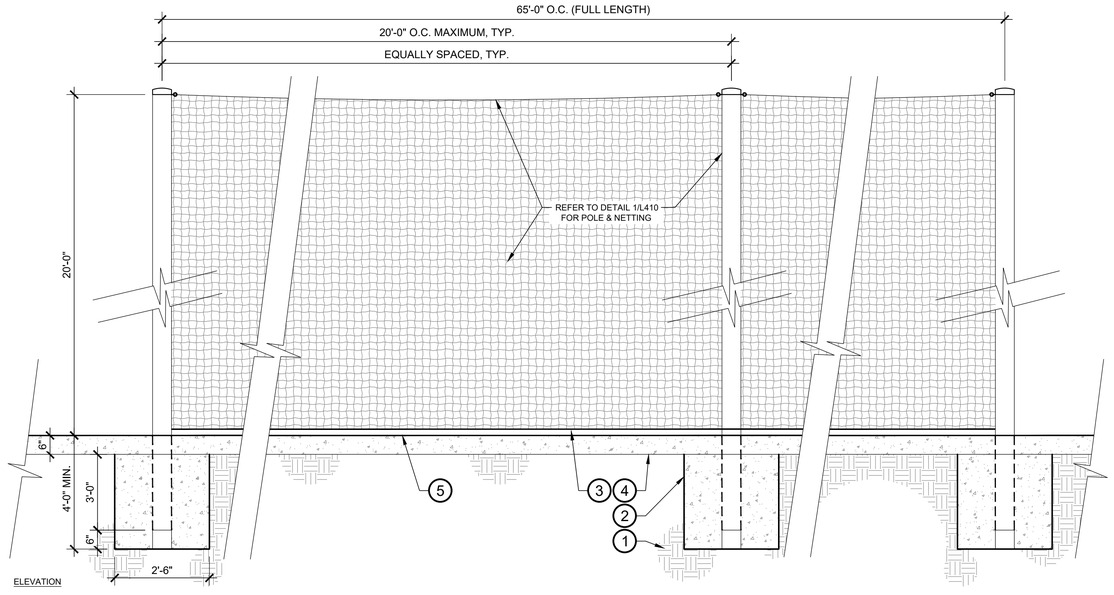
NOTES:

1. ALL FENCE PIPE TO MATCH EXISTING SIZE
2. ALL FENCE FABRIC TO BE ON THE INSIDE ON FIELD AREAS
3. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT
4. FENCING: BLACK, VINYL COATED CHAIN LINK FENCE
5. FENCING GAUGES: 6 GAUGE CHAIN LINK FENCE (PRIOR TO VINYL COATING CHAIN LINK FENCE)
6. ALL MATERIALS, FABRIC, POSTS, RAILS, ETC. TO BE PAINTED BLACK AND/OR VINYL COATED BLACK.

CONCRETE FOOTING DEPTH AND WIDTH		
	UNDER 6'-0"	6'-0" AND TALLER
TERMINAL	48" x 18"	48" x 18"
LINE	48" x 15"	48" x 18"

1 8 FT. CHAINLINK FENCE WITH 12 FT. PROTECTIVE NETTING

1/2" = 1'-0"



KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 30" WIDE CONCRETE FOOTING, 3500 PSI MIN. AS PER DIMENSIONS SHOWN
3. 3/16" GALVANIZED WIRE ROPE BLACK VINYL COATED TO 1/4" ASSEMBLY. REF. POLE SAFETY NETTING DETAIL 1/L409
4. 6 INCH. THICKENED CONCRETE PAVING ADJACENT TO EXISTING TRACK
5. FINISH GRADE

NOTES:

1. ALL NETTING FABRIC TO BE ON THE INSIDE ON FIELD AREAS
2. ALL MATERIALS TO BE GALVANIZED. FRAMEWORK 40 WEIGHT

2 20 FT. PROTECTIVE NETTING

1/2" = 1'-0"

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6471
STATE OF TEXAS
1895

10/17/25

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CHECKED BY:	BB
SCALE:	AS SHOWN

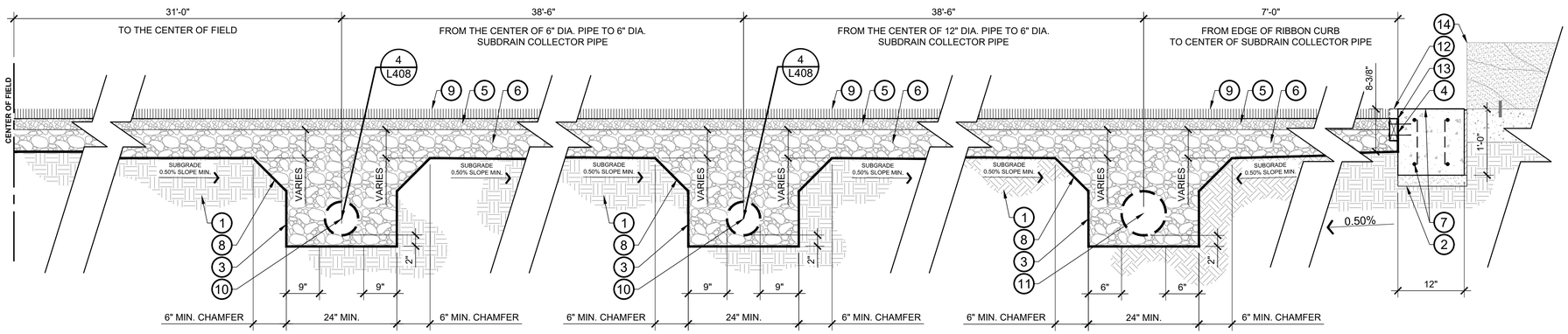
SHEET TITLE

DETAILS

L406

FILE NAME: A:\60000s\60316\0011\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ah3106 AVO: 31001.005

SYNTHETIC TURF FIELD DRAIN AT RIBBON CURB EDGE



1 SYNTHETIC TURF FIELD SECTION (FIELDS 7, 8, & 9)

N.T.S.

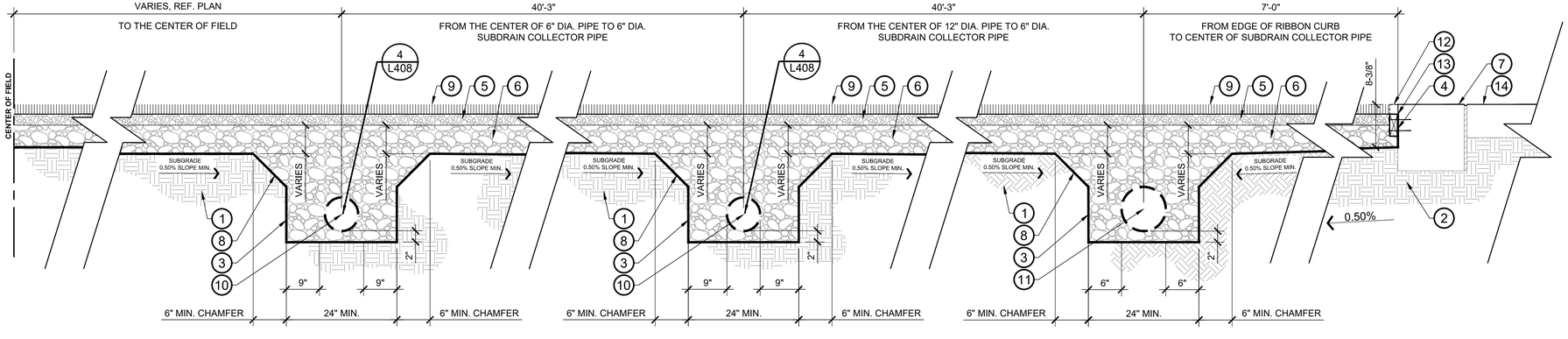
KEY:

1. SUBGRADE AND SELECT FILL PER GEOTECHNICAL REPORT
2. 2" THICK MINIMUM SAND OR DRY SCREENING LEVELING BED
3. IMPERMEABLE GEOMEMBRANE LINER - PVC 20 BY TITAN ENVIRONMENTAL CONTAINMENT, 18" MIN. LAPS
4. EXTEND GEOMEMBRANE BEHIND TIMBER NAILER
5. DRAIN STONE 2" DEPTH - 3/8" WASHED ANGULAR STONE
6. DRAIN STONE 4" MINIMUM DEPTH - TX126-ASTM#57 (1" TO #4) CRUSHED LIMESTONE
7. CONCRETE RIBBON CURB - 3500 PSI MIN., (2) #4 BARS CONTINUOUS, TIE HORIZ. W/ #3 BARS EVERY 6" O.C. CONTROL JOINTS EVERY 10' AND EXPANSIONS JOINTS EVERY 30'
8. 6" CHAMFER, AS PER DIMENSIONS
9. 2-3/8" MAX. PILE HEIGHT SYNTHETIC TURF SYSTEM, REF. TURF SPECIFICATIONS. TOP OF PILE FLUSH WITH PERIMETER CONCRETE CURB/FLATWORK
10. 6" DIAMETER HDPE PERFORATED CORRUGATED SUBDRAIN COLLECTOR PIPE. REFER FIELD DRAINAGE PLAN, SHEET L202, FOR DRAINAGE SYSTEM.
11. 12" DIAMETER HDPE PERFORATED SUBDRAIN COLLECTOR PIPE. REFER FIELD DRAINAGE PLAN, SHEET L202, FOR DRAINAGE SYSTEM
12. 2" x 2" REMOVED AFTER BASE COMPLETION
13. SYNTHETIC NAILER BOARD - 2" x 4" - CONTINUOUS, ATTACHED TO CONCRETE RIBBON CURB AND PERIMETER FLATWORK WITH (2) 16D GALVANIZED NAILS, SPACED AT 24" O.C. MAX.
14. ADJACENT QUARRY BLOCK WALL, SEE DETAIL 5/L402. BLOCK HEIGHT VARIES ABOVE OR BELOW FIELD ELEVATION. REFER GRADING PLAN FOR ELEVATION.

NOTES:

1. SHAW SPORTS TURF WAS USED AS THE BASIS OF DESIGN. ANY REQUESTS FOR A SUBSTITUTION / EQUAL MUST BE SUBMITTED TO THE OWNER AND PROJECT LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO THE END OF BIDDERS QUESTION / RFI DEADLINE. SUBSTITUTIONS MUST INCLUDE THE FOLLOWING, NO EXCEPTIONS: AN EQUIVALENT DESIGN INCLUDING TECHNICAL DESIGN PLANS AND SPECIFICATIONS; MAINTENANCE REQUIREMENTS FOR PROPOSED DESIGN AND PRODUCTS; WARRANTY INFORMATION; THREE (3) REFERENCES INCLUDING CONTACT INFORMATION FOR EQUIVALENT SIZE AND BUDGET PROJECTS; AND REFERENCE TO ONE INSTALLATION, INCLUDING OWNER REFERENCE INFORMATION, FOR A PUBLIC OR PRIVATE INSTALLATION WITHIN 150 MILES OF THE PROJECT AREA.
2. REF. MANUFACTURES SPECIFICATIONS FOR SYNTHETIC TURF INSTALLATION.
3. DIMENSION MAY CHANGE ON ACTUAL SYNTHETIC TURF TO BE INSTALLED.
4. SYNTHETIC TURF TO BE STAPLED TO TIMBER NAILER USING STAINLESS STEEL STAPLES.
5. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
6. WEDGE ANCHORS TO BE INSTALLED 2" FROM END OF 2" X 4" TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
7. GEOMEMBRANE LINER - NO LAPS OR SPLICES WITHIN SUBDRAIN COLLECTOR PIPE TRENCHES. LINER TO EXTEND BEHIND TIMBER NAILERS AND OVER RIBBON CURB (INSIDE FIELD)

SYNTHETIC TURF FIELD DRAIN AT EXISTING RIBBON CURB AT TRACK EDGE



2 SYNTHETIC TURF FIELD SECTION (FIELD 6)

N.T.S.

KEY:

1. SUBGRADE AND SELECT FILL PER GEOTECHNICAL REPORT.
2. 2" THICK MINIMUM SAND OR DRY SCREENING LEVELING BED
3. IMPERMEABLE GEOMEMBRANE LINER - PVC 20 BY TITAN ENVIRONMENTAL CONTAINMENT, 18" MIN. LAPS
4. EXTEND GEOMEMBRANE BEHIND TIMBER NAILER
5. DRAIN STONE 2" DEPTH - 3/8" WASHED ANGULAR STONE
6. DRAIN STONE 4" MINIMUM DEPTH - TX126-ASTM#57 (1" TO #4) CRUSHED LIMESTONE
7. EXISTING TRACK RIBBON CURB TO REMAIN
8. 6" CHAMFER, AS PER DIMENSIONS
9. 2-3/8" MAX. PILE HEIGHT SYNTHETIC TURF SYSTEM, REF. TURF SPECIFICATIONS. TOP OF PILE FLUSH WITH PERIMETER CONCRETE CURB/FALTWORK
10. 6" DIAMETER HDPE PERFORATED CORRUGATED SUBDRAIN COLLECTOR PIPE. REFER FIELD DRAINAGE PLAN, SHEET L202, FOR DRAINAGE SYSTEM
11. 12" DIAMETER HDPE PERFORATED SUBDRAIN COLLECTOR PIPE. REFER FIELD DRAINAGE PLAN, SHEET L202, FOR DRAINAGE SYSTEM
12. 2" x 2" REMOVED AFTER BASE COMPLETION
13. SYNTHETIC NAILER BOARD - 2" x 4" - CONTINUOUS, ATTACHED TO EXISTING CONCRETE RIBBON CURB WITH (2) 16D GALVANIZED NAILS, SPACED AT 24" O.C. MAX.
14. EXISTING TRACK SURFACE

NOTES:

1. SHAW SPORTS TURF WAS USED AS THE BASIS OF DESIGN. ANY REQUESTS FOR A SUBSTITUTION / EQUAL MUST BE SUBMITTED TO THE OWNER AND PROJECT LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO THE END OF BIDDERS QUESTION / RFI DEADLINE. SUBSTITUTIONS MUST INCLUDE THE FOLLOWING, NO EXCEPTIONS: AN EQUIVALENT DESIGN INCLUDING TECHNICAL DESIGN PLANS AND SPECIFICATIONS; MAINTENANCE REQUIREMENTS FOR PROPOSED DESIGN AND PRODUCTS; WARRANTY INFORMATION; THREE (3) REFERENCES INCLUDING CONTACT INFORMATION FOR EQUIVALENT SIZE AND BUDGET PROJECTS; AND REFERENCE TO ONE INSTALLATION, INCLUDING OWNER REFERENCE INFORMATION, FOR A PUBLIC OR PRIVATE INSTALLATION WITHIN 150 MILES OF THE PROJECT AREA.
2. REF. MANUFACTURES SPECIFICATIONS FOR SYNTHETIC TURF INSTALLATION.
3. DIMENSION MAY CHANGE ON ACTUAL SYNTHETIC TURF TO BE INSTALLED.
4. SYNTHETIC TURF TO BE STAPLED TO TIMBER NAILER USING STAINLESS STEEL STAPLES.
5. STONE BASE COURSE TO BE FLUSH WITH TOP OF TIMBER NAILER.
6. WEDGE ANCHORS TO BE INSTALLED 2" FROM END OF 2" X 4" TIMBER NAILER AND SPACED A MAXIMUM OF 24" ON CENTER.
7. GEOMEMBRANE LINER - NO LAPS OR SPLICES WITHIN SUBDRAIN COLLECTOR PIPE TRENCHES. LINER TO EXTEND BEHIND TIMBER NAILERS AND OVER RIBBON CURB (INSIDE FIELD)

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
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3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN S. BINKOWSKI
6885
STATE OF TEXAS
10/17/25

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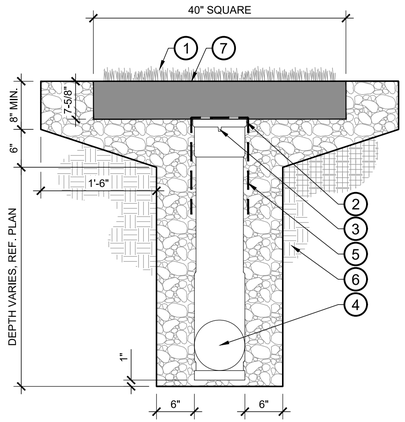
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
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FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-DETAILS-60316.001.dwg DATE: October 16, 2025, TIME: 7:23 AM, USER: ah3106 AVO: 31001.005



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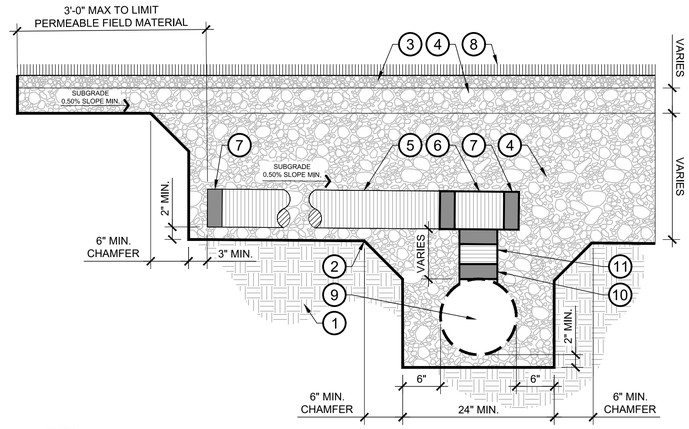
1. SYNTHETIC TURF SYSTEM, REF. TURF SPECIFICATIONS
2. SOLID CAST IRON COVER
3. FASTEN COVER W/STAINLESS STEEL NUTS AND BOLTS
4. 18" NYLOPLAST INLET AS MANUFACTURED BY ADS OR EQUIVALENT
5. COVER TOP W/3 LAYERS OF 8 MIL POLY. SECURE WITH PVC TAPE
6. SUBGRADE AND SELECT FILL PER GEOTECHNICAL REPORT.
7. TURF COVER AT DRAIN BASIN, SEE DETAIL THIS SHEET, 3/L405

NOTE:

DRAIN BASINS VARY PER LOCATION. PROVIDE SHOP DRAWING SUBMITTAL FOR EACH LOCATION TO ACCOMMODATE ALL IN/OUT DRAIN PIPES PER FIELD DRAINAGE PLAN.

1 DRAIN BASIN

N.T.S.



SECTION

KEY:

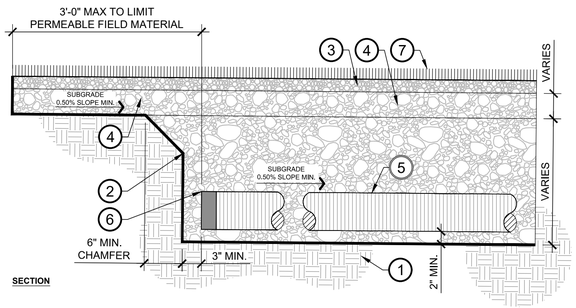
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2. IMPERMEABLE GEOMEMBRANE LINER - PVC 20 BY TITAN ENVIRONMENTAL CONTAINMENT. 18" MIN. LAPS
3. DRAIN STONE 2" DEPTH - 3/8" WASHED ANGULAR STONE
4. DRAIN STONE 4" MINIMUM DEPTH - TX126-ASTM#57 (1" TO #4) CRUSHED LIMESTONE
5. 6" PERFORATED CORRUGATED HDPE LATERAL DRAIN TUBING, VARIES IN LENGTH.
6. 6" x 6" x 6" SNAP TEE
7. SNAP CAP ALL ENDS OF LATERAL TUBING
8. 2-3/8" MAX. PILE HEIGHT SYNTHETIC TURF SYSTEM, REF. TURF SPECIFICATIONS. TOP OF PILE FLUSH WITH PERIMETER CONCRETE CURB/FLATWORK
9. 12" DIAMETER PERFORATED CORRUGATED HDPE SUBDRAIN COLLECTOR PIPE. SEE DRAINAGE SHEETS FOR ALL FLOW LINE ELEVATIONS
10. 6" ADS INSIDE COUPLER
11. 12" x 12" x 6" PVC TEE

NOTES:

1. FOR COMPLETE DRAINAGE SYSTEM (DRAIN TUBING LAYOUT, LENGTHS, FLOW LINE ELEVATIONS, ETC.), REF. DRAINAGE PLANS - L201B - L204B.
2. GEOMEMBRANE LINER - NO LAPS OR SPLICES WITHIN SUBDRAIN COLLECTOR PIPE TRENCHES. LINER TO EXTEND BEHIND TIMBER NAILERS AND OVER RIBBON CURB (INSIDE FIELD)

3 SUBSURFACE DRAINAGE DROP TEE CONNECTION

1" = 1'-0"



SECTION

KEY:

1. SUBGRADE AND SELECT FILL PER GEOTECHNICAL REPORT
2. IMPERMEABLE GEOMEMBRANE LINER - PVC 20 BY TITAN ENVIRONMENTAL CONTAINMENT. 18" MIN. LAPS
3. DRAIN STONE 2" DEPTH - 3/8" WASHED ANGULAR STONE
4. DRAIN STONE 4" MINIMUM DEPTH - TX126-ASTM#57 (1" TO #4) CRUSHED LIMESTONE
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6. SNAP CAP ALL ENDS OF LATERAL TUBING
7. 2-3/8" MAX. PILE HEIGHT SYNTHETIC TURF SYSTEM, REF. TURF SPECIFICATIONS. TOP OF PILE FLUSH WITH PERIMETER CONCRETE CURB/FLATWORK

NOTES:

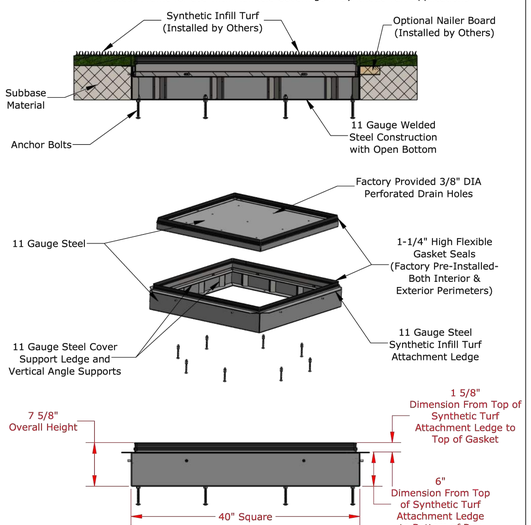
1. FOR COMPLETE DRAINAGE SYSTEM (DRAIN TUBING LAYOUT, LENGTHS, FLOW LINE ELEVATIONS, ETC.), REF. DRAINAGE PLANS - L201B - L204B.
2. GEOMEMBRANE LINER - NO LAPS OR SPLICES WITHIN SUBDRAIN COLLECTOR PIPE TRENCHES. LINER TO EXTEND BEHIND TIMBER NAILERS AND OVER RIBBON CURB (INSIDE FIELD)

4 ROUND SUBSURFACE DRAINAGE LATERAL

1" = 1'-0"

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MHAFIT40 Access Frame for use with Manhole Coverings in Synthetic Turf Applications



Standard Black Powder Coated Finish

PROPRIETARY AND CONFIDENTIAL

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MHAFIT40 Manhole Access Frame with Infill Retainer System for Synthetic Turf Applications

Not To Scale

Sportsfield Specialties Inc 07062023

NOTES:

1. THESE DETAILS ARE FOR REFERENCE ONLY. INSTALL PER MANUFACTURER SPECIFICATIONS AND DRAWINGS.

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210-241-8196
WWW.SPORTSFIELD.COM
OR APPROVED EQUAL BY LANDSCAPE ARCH.

2 MHAFIT40 MANHOLE ACCESS FRAME WITH INFILL RETAINER SYSTEM FOR SYNTHETIC TURF APPLICATIONS

1/2" = 1'-0"

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3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
5871
1895
STATE OF TEXAS

10/17/25

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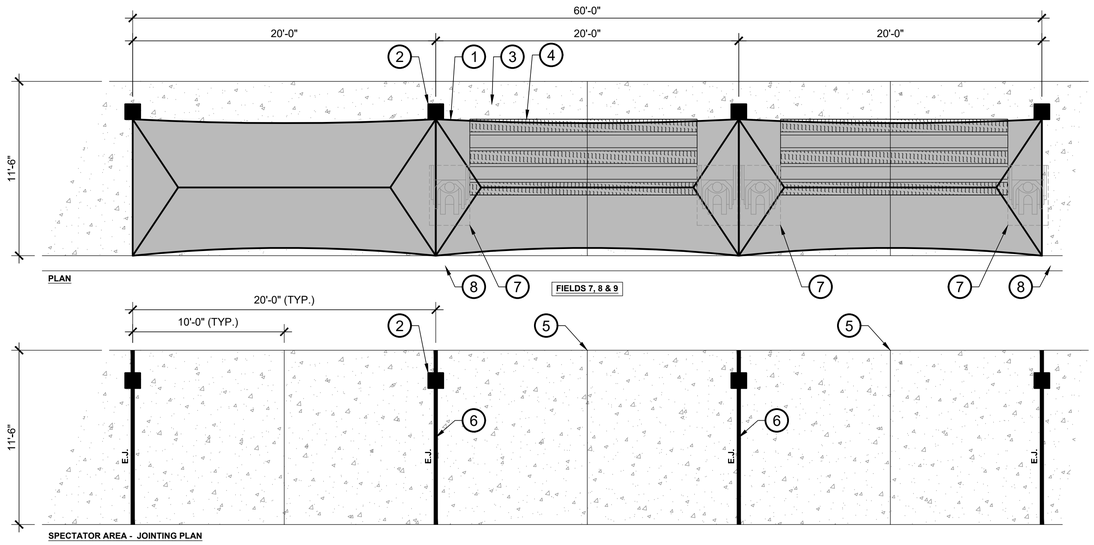
PROJECT NO.:	60316.001
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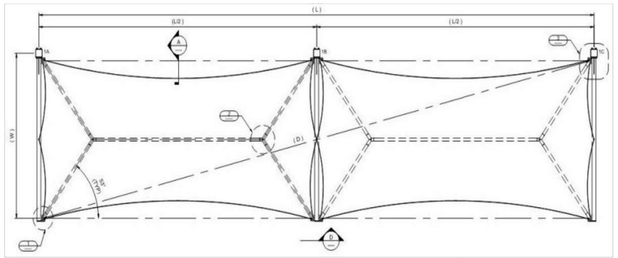


1 FABRIC SHADE CANTILEVER - LAYOUTS

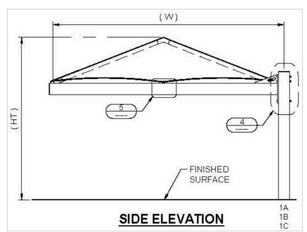
1" = 5'

KEY:

1. FABRIC SHADE - CANTILEVER. OVERALL LENGTH VARIES, REF. PLAN.
   SOME SPECTATOR AREAS ONLY HAVE 2 IN LIEU OF 3.
   - (2) 10'X20'- 40' OVERALL
   - (3) 10'X20'- 60' OVERALL
2. FABRIC SHADE STRUCTURE COLUMN
3. CONCRETE WALKWAY
4. MOVABLE BLEACHER (2) 15' THREE-ROW - 30 SEAT
5. CONTROL JOINTS, PER DIMENSIONS
6. EXPANSION JOINTS, PER DIMENSIONS
7. ACCESSIBLE SEATING
8. CONCRETE RIBBON CURB



FRONT ELEVATION



SIDE ELEVATION

2 FABRIC SHADE CANTILEVER - PLAN & ELEVATIONS (FOR REFERENCE ONLY)

3/8" = 1'-0"

GENERAL NOTES

DESIGN LOADS

BUILDING CODE	INTERNATIONAL BUILDING CODE 2018
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH*
	3-Sec. Gust, RISK CATEGORY II & EXPOSURE C

* 115 MPH ACCORDING TO THE BASIC WIND SPEED MAPS OF ASCE 7-16 IS EQUIVALENT TO THE ALLOWABLE STRESS DESIGN WIND SPEED OF 90 MPH ACCORDING TO ASCE 7-05 AND IBC 2018 EQ 16-33.

ESTIMATED STEEL WEIGHT

Total Structure Weight	4085.71 lbs
Single Column Weight	520 lbs
Total Upper Frame Weight	2525.7 lbs
Steel Sizes	HSS 10.00 x 10.00 x 0.25

TABLE OF DIMENSIONS

L	W	H	R	HT	D	RL	EL
60' 0"	10' 0"	10' 0"	3' 9"	13' 9"	61' 10"	17' 6"	8' 4"

NOTE:

1. CAPITAL SHADE WAS USED AS THE BASIS OF DESIGN. ANY REQUESTS FOR A SUBSTITUTION / EQUAL MUST BE SUBMITTED TO THE OWNER AND PROJECT LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO THE END OF BIDDERS QUESTION / RFI DEADLINE. SUBSTITUTIONS MUST INCLUDE THE FOLLOWING, NO EXCEPTIONS: AN EQUIVALENT DESIGN INCLUDING TECHNICAL DESIGN PLANS AND SPECIFICATIONS; MAINTENANCE REQUIREMENTS FOR PROPOSED DESIGN AND PRODUCTS; WARRANTY INFORMATION; THREE (3) REFERENCES INCLUDING CONTACT INFORMATION FOR EQUIVALENT SIZE AND BUDGET PROJECTS; AND REFERENCE TO ONE INSTALLATION, INCLUDING OWNER REFERENCE INFORMATION, FOR A PUBLIC OR PRIVATE INSTALLATION WITHIN 150 MILES OF THE PROJECT AREA.
2. NOT FOR CONSTRUCTION OR PERMITS
3. THESE DETAILS ARE FOR REFERENCE ONLY AND ARE NOT TO SCALE. INSTALL PER MANUFACTURER SPECIFICATIONS AND DRAWINGS, REFER TO AMENITIES TABLE SHEETS

REINFORCED CONCRETE NOTES

1. CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318. CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:
   - 28 DAY STRENGTH: 2500 PSI
   - SLUMP: 3-5
   - PORTLAND CEMENT SHALL CONFORM TO C-150
   - AGGREGATE SHALL CONFORM TO ASTM C-33
2. ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
3. ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).
4. ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
5. SOIL PARAMETERS FOR FOOTING ANALYSIS; TABLE 1806.2, CLASS : 5 - 1500(PSF)
6. FOR SPREAD FOOTING, EDGE OF COLUMN OR ANCHOR BOLTS MUST BE SET AT LEAST 12" FROM THE EDGE OF SPREAD FOOTING EDGE.
7. SPREAD FOOTING ALLOWED TO BE ROTATED AS REQUIRED.
8. ANCHOR ROD Sets,1-1/4"x36" F1554 GR55, Qty 12

TABLE FOR NON-CONSTRAINED DRILLED PIER FOOTING

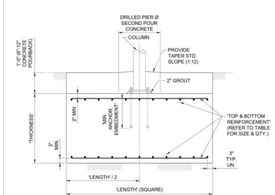
DIAMETER	DEPTH	VERTICAL REBAR		TIES				MIN. COLUMN EMBEDMENT (EMBED)	MIN. ANCHOR EMBEDMENT (RECESS. & SURFACE)
(FT)	(FT)	QTY.	SIZE	QTY.	Ø LOOP (FT)		SIZE	(IN)	(IN)
2.5	10	9	#8	17	2		#4	36	30

TABLE FOR SPREAD FOOTING

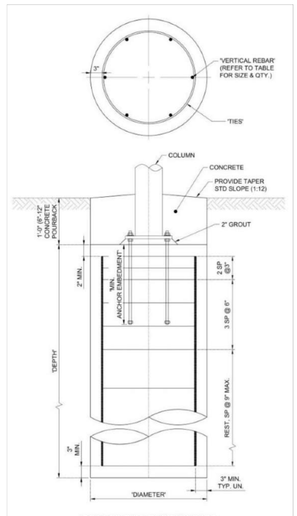
LENGTH	THICKNESS	TOP AND BOTTOM REINFORCEMENT					MIN. COLUMN EMBEDMENT (EMBED)	MIN. ANCHOR EMBEDMENT (RECESS. & SURFACE)
(FT)	(FT)	QTY.	SIZE		SPACING (IN)		(IN)	(IN)
7.00	3	10	#5	@	8.5	O.C.E.W.	33	30

NOT FOR CONSTRUCTION OR PERMITS

NOTE: ADDITIONAL INSTALLATION COSTS FOR SPREAD FOOTING



SPREAD FOOTING TYPE
RECESSED BASE PLATE
SCHEMATIC VIEW ONLY
REFER TO TABLE FOR VARIABLE DIMENSIONS



DRILLED PIER FOOTING TYPE
RECESSED BASE PLATE
SCHEMATIC VIEW ONLY
REFER TO TABLE FOR VARIABLE DIMENSIONS & QTY.

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LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
5971
STATE OF TEXAS
1895

10/17/25

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SHEET TITLE	

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Pole Hardware

Quantity	Part Number	Description
1	PURCHP-0009 (113-209860)	Spring Hook (Tether to Horizontal Cable)
Varies*	PURCHP-0097 (114-116-304-SPHK2450-187N)	3/16" Spring Hook (Net to Vertical Cable)
1	E-1000-0013 (Rope Cleat)	Rope Cleat
2	101-HHC-0025 (101-HHC1/4-20x4.5-SS)	¼-20 Hex Head Bolt
2	107-HXN-0006 (107-HXN1/4-20ACORN-SS)	¼-20 Stainless Steel Acorn Nut
1	E-0007-S036 (HD-04-UPPER)	Upper Mounting Bracket
1	E-0007-S035 (HD-04-LOWER)	Lower Mounting Bracket
1	PURCHP-0026 (113-BLOCKWR300-02548)	¼" Swivel Eye Block Pulley
1	TETHER	Tether measuring 2 x height of system plus 5 ft
Varies*	PURCHP-0048 (113-VGACB187/250-0050)	7 x 19 Galvanized Wire Rope, Black Vinyl Coated (height of system plus 3ft)
2	110-SLW-0002 (110-SLW1/4-SS)	¼" lock Washer
2	102-UBOLT-0001 (114-UBOLT4.5"-GALV)	Galvanized U-Bolt (with 1/2-13 Hex Nuts)
4	110-FLW-0001 (110-FLW1/2-SS)	1/2" Flat Washer
4	110-SLW-0001 (110-SLW1/2-SS)	1/2" Lock Washer
1	E-0007-HD15 (HD-RUN)	Hardware per run
1	CT26175B	26" L Black Nylon Reusable Cable/Zip Tie

* Depends on the height of the system how many of the small spring hooks you receive to attach the net to the vertical cable. One spring hook for every 18" of netting.

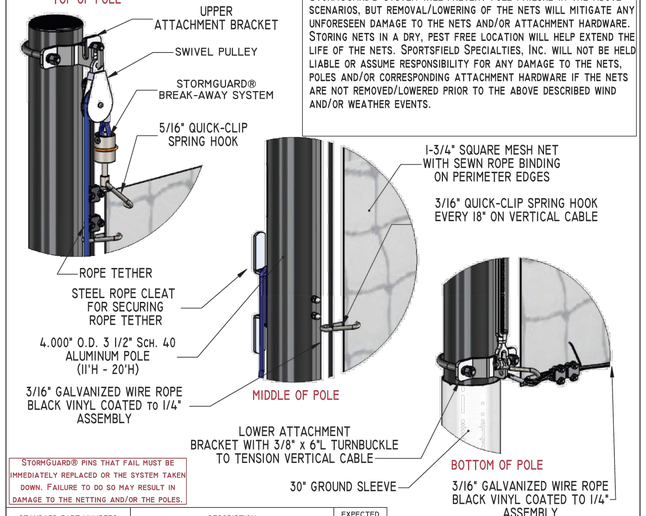
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UNITED STATES PATENT #9,017,190 ISSUED APRIL 28, 2015
UNITED STATES PATENT #9,586,123 ISSUED MARCH 7, 2017
STANDARD BLACK POWDER COATED FINISH

SPORTSFIELD SPECIALTIES, INC. STRONGLY RECOMMENDS THE REMOVAL OF ALL NETS PRIOR TO EXPOSURE TO WINTER WEATHER, INCLUDING SNOW AND/OR ICE STORMS. WHENEVER POSSIBLE, THE NETS SHOULD ALSO BE LOWERED PRIOR TO ANY EXTREME WIND EVENTS. THE STORMGUARD® SYSTEM WILL PREVENT POLE FAILURE IN THE ABOVE SCENARIOS, BUT REMOVAL/LOWERING OF THE NETS WILL MITIGATE ANY UNFORESEEN DAMAGE TO THE NETS AND/OR ATTACHMENT HARDWARE. STORING NETS IN A DRY, PEST FREE LOCATION WILL HELP EXTEND THE LIFE OF THE NETS. SPORTSFIELD SPECIALTIES, INC. WILL NOT BE HELD LIABLE OR ASSUME RESPONSIBILITY FOR ANY DAMAGE TO THE NETS, POLES AND/OR CORRESPONDING ATTACHMENT HARDWARE IF THE NETS ARE NOT REMOVED/LOWERED PRIOR TO THE ABOVE DESCRIBED WIND AND/OR WEATHER EVENTS.



STORMGUARD® PINS THAT FAIL MUST BE IMMEDIATELY REPLACED OR THE SYSTEM TAKEN DOWN. FAILURE TO DO SO MAY RESULT IN DAMAGE TO THE NETTING AND/OR THE POLES.

STANDARD PART NUMBERS	DESCRIPTION	EXPECTED NET SAG
BSS412 (TFBSS412P-SG)	12'H SYSTEM	±1'-8"
BSS415 (TFBSS415P-SG)	15'H SYSTEM	±1'-8"
BSS420 (TFBSS420P-SG)	20'H SYSTEM	±2'-2"
BSS-CUSTOM (TFBSSx__-P-SG)	CUSTOM HEIGHTS GREATER THAN 10' AND UP TO 20' AVAILABLE	

FOUNDATION REQUIREMENTS BASED ON LOCAL CODES AND SOIL CONDITIONS

PROFESSIONALLY PRE-ENGINEERED TO MEET ASCE 7-10 WIND RATING UP TO 105 MPH EXPOSURE B

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4" Straight Pole StormGuard® Professionally Pre-Engineered Break-Away Ball Safety Netting System

Not To Scale

Sportsfield Specialties Inc 07022024

C:\ENG\Sales Docs\Products\Netting Systems\Multisport Netting\Cut Sheets\

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GROUND SLEEVE INSTALL

The 4" diameter BSS poles are inserted into a ground sleeve. The height of the ground sleeves varies with the height of the ball safety system. Each ground sleeve comes with a pre-installed hex bolt and nyloc nut as shown in ***Figure 2***.

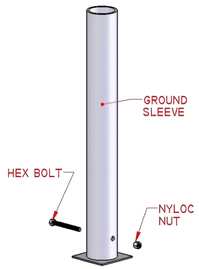


Figure 2 - Ground Sleeve

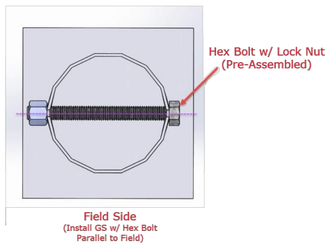


Figure 3 - Ground Sleeve Orientation (Top View)

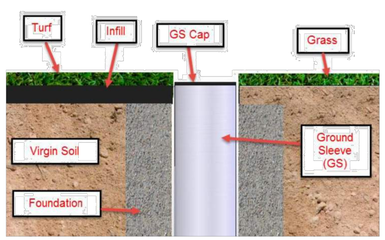
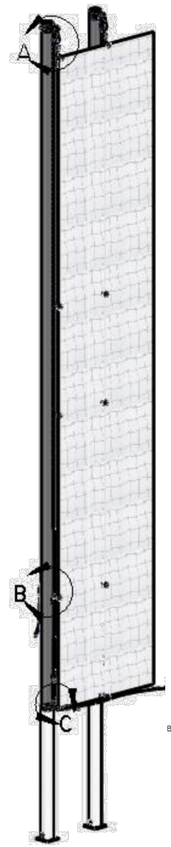


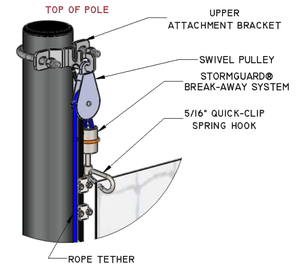
Figure 4 – Ground Sleeve Depth Reference (Section View)

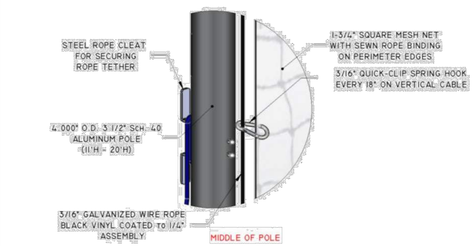


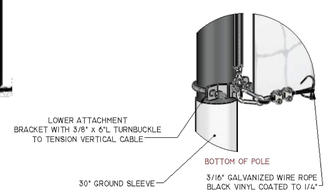
Figure 5 – Pole Inside Ground Sleeve Ref.

Pole Installation









1 4" STRAIGHT POLE SAFETY NETTING SYSTEM

1/2" = 1'-0"

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REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT BRIAN R. BINKOWSKI 1895 STATE OF TEXAS

10/17/25

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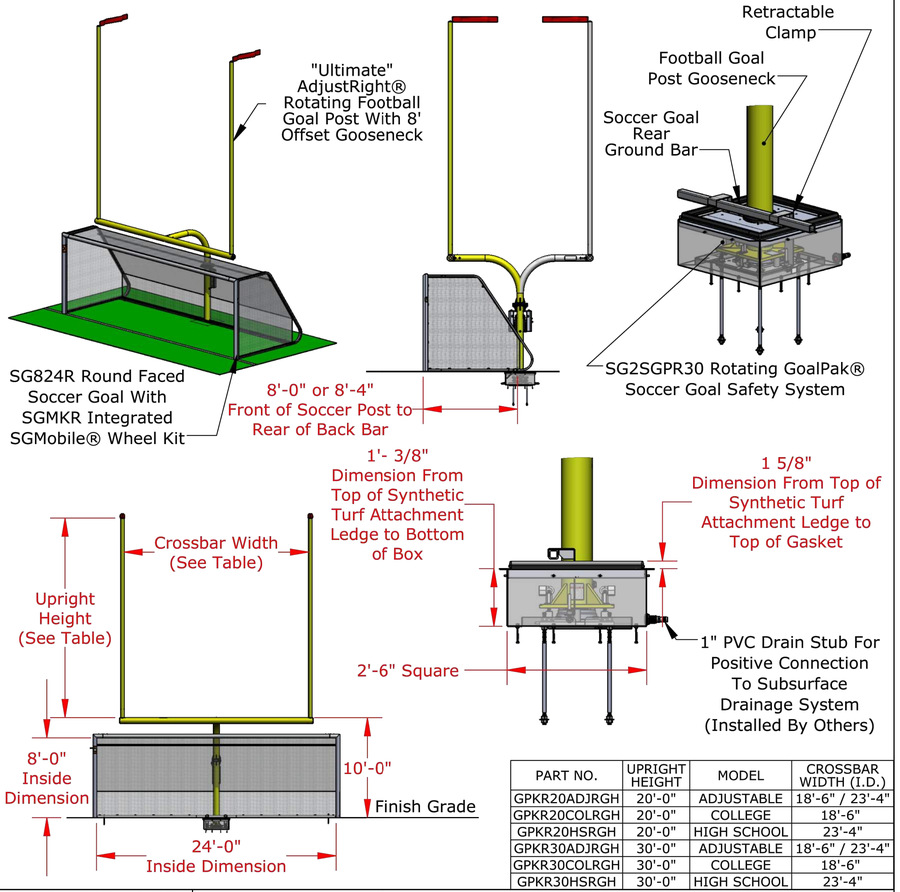
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Foundation requirements based on local codes and soil conditions

Powder Coated Yellow or White Finish



PART NO.	UPRIGHT HEIGHT	MODEL	CROSSBAR WIDTH (I.D.)
GPKR20ADJRGH	20'-0"	ADJUSTABLE	18'-6" / 23'-4"
GPKR20COLRGH	20'-0"	COLLEGE	18'-6"
GPKR20HSRGH	20'-0"	HIGH SCHOOL	23'-4"
GPKR30ADJRGH	30'-0"	ADJUSTABLE	18'-6" / 23'-4"
GPKR30COLRGH	30'-0"	COLLEGE	18'-6"
GPKR30HSRGH	30'-0"	HIGH SCHOOL	23'-4"

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Rotating Gooseneck Hinged GoalPak® Football / Round Soccer Goal System

Not To Scale

Sportsfield Specialties Inc 06102022

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1 PIVOT/FOOTBALL GOAL

1/2" = 1'-0"

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BRIAN S. BINKOWSKI
STATE OF TEXAS

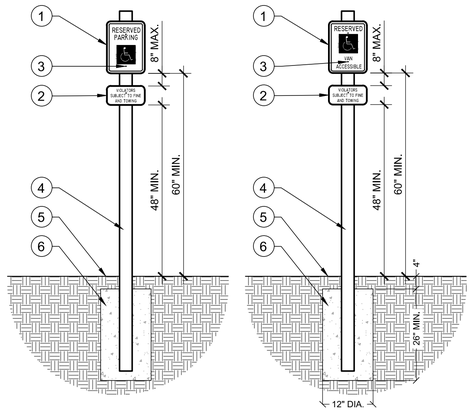
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KEY

1. 12" x 18" ALUMINUM SIGN (0.080")
2. 12" x 6" ALUMINUM SIGN (0.080") - VIOLATORS SUBJECT TO FINE AND TOWING
3. ATTACH SIGN TO POST WITH TWO GALVANIZED TAMPER-PROOF BOLTS
4. 2-3/8" DIA..GALVANIZED STEEL TUBE POST, WITH WELDED CAP.
5. FINISH GRADE
6. 12" DIA. x 26" D. CONCRETE FOOTING (3000 PSI MIN.), TOP OF FOOTING 4" BELOW FINISH GRADE

SIGN SUPPLIER:

CENTERLINE SUPPLY
DALLAS, TEXAS
1-800-321-1751
OR APPROVED EQUAL BY
LANDSCAPE ARCHITECT

1 ACCESSIBLE PARKING SIGN

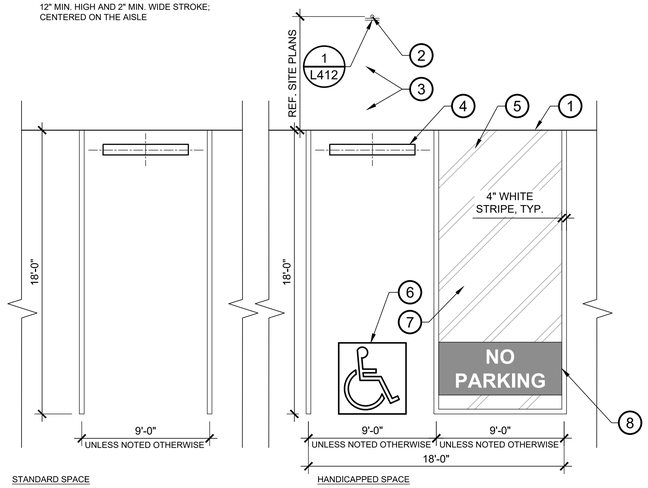
1/2" = 1'-0"

KEY:

1. EDGE OF PAVEMENT
2. HANDICAPPED PARKING SIGN WHERE NOTED ON PLANS. REFER TO DETAIL
3. ADJACENT EXISTING SIDEWALK
4. EXISTING WHEEL STOPS TO REMAIN, CENTERED IN SPACE
5. 4" WIDE DIAGONAL WHITE PAINT @ 12" C/C.
6. STANDARD HANDICAPPED SYMBOL TO BE PAINTED ON PAVEMENT WITH NONREFLECTIVE PAINT, CONTRASTING WITH PAVEMENT
7. 9'-0" AT VAN ACCESSIBLE SPACES
8. "NO PARKING" TO BE PAINTED ON PAVEMENT, CONTRASTING WITH PAVEMENT. CAPITAL LETTERS - AT LEAST 12" MIN. HIGH AND 2" MIN. WIDE STROKE; CENTERED ON THE AISLE

NOTES:

1. MAINTAIN EXISTING DRIVE AISLE WIDTH. DO NOT OVER STRIPE INTO DRIVE AISLE.
2. RAMP ACCESS AND SURFACE SLOPES SHALL COMPLY WITH ADA/TAS REQUIREMENTS.
3. EACH HANDICAPPED PARKING SPACE SHALL BE SIGNED IN ACCORDANCE WITH ADA REQUIREMENTS AND COMPLY WITH TEXAS ACCESSIBILITY STANDARDS, 502.1 TO 502.7
4. EACH HANDICAPPED PARKING SPACE PAINTING AND SYMBOLS TO COMPLY WITH TEXAS ACCESSIBILITY / ADA CURRENT STANDARDS.



2 TYPICAL PARKING SPACE LAYOUT

3/16" = 1'-0"

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BRIAN R. BINKOWSKI
6947
STATE OF TEXAS

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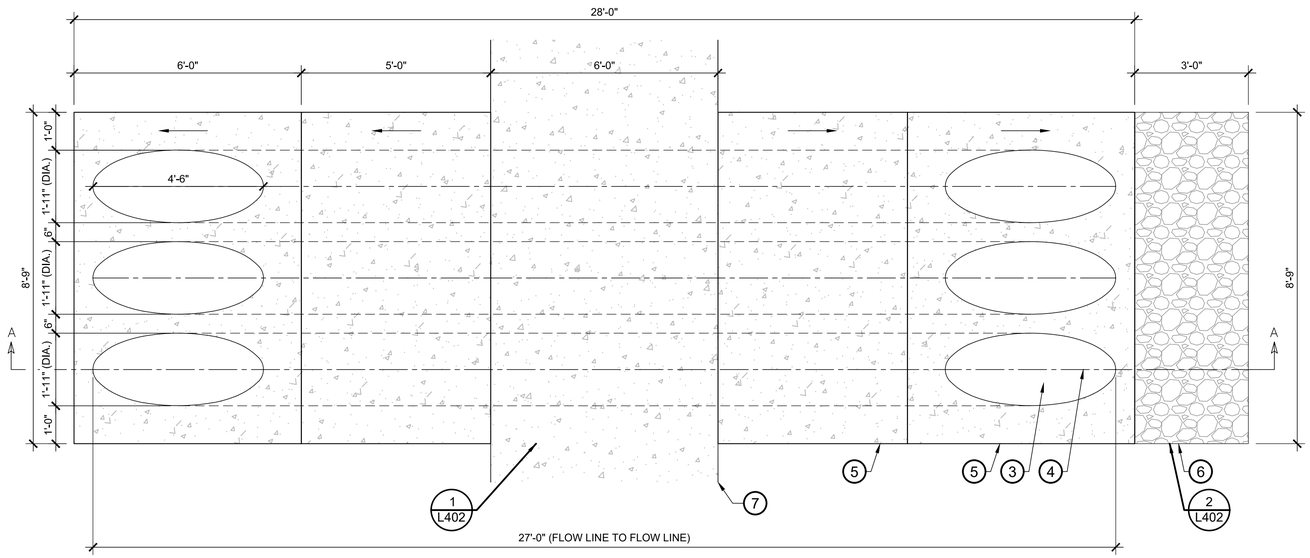
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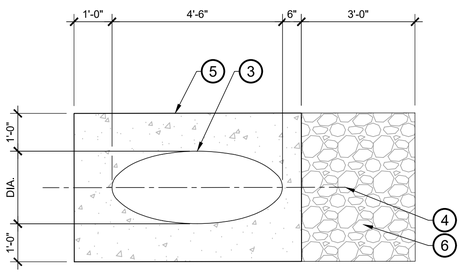
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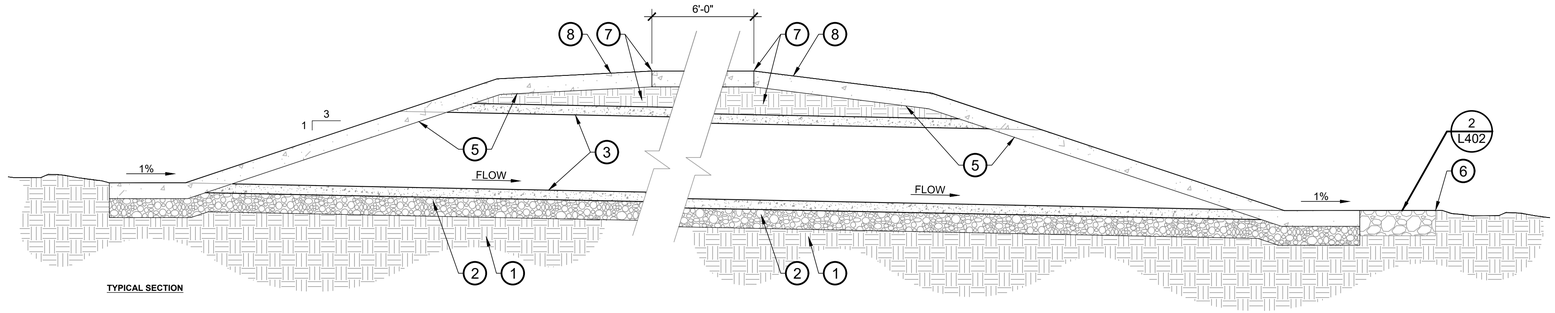
(3) CULVERT - PLAN

KEY:

1. COMPACTED SUBGRADE TO 95% MIN. DENSITY
2. 6" MINIMUM COMPACTED CRUSHED LIMESTONE BEDDING BELOW AND BETWEEN PIPES
3. 18" REINFORCED CONCRETE PIPE
4. CENTERLINE OF PIPE
5. 4" 4000 PSI CONC. SAFETY END TREATMENT / RIP-RAP WITH 6" X 6" #10 WELDED WIRE MESH. CUT WELDED WIRE TO WITHIN 2" OF PIPE.
6. ROCK RIP RAP, 5" TO 8" IN SIZE, MORTARED IN PLACE
7. CONCRETE WALKWAY TO FIELD, REF. SITE PLAN. MIN. 3" COVER BETWEEN TRAIL AND PIPE.
8. FINISH GRADE, REF. GRADING PLAN



SINGLE CULVERT - PLAN



TYPICAL SECTION

1 CULVERT W/ SLOPED HEADWALL

1/2" = 1'-0"

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REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6989
STATE OF TEXAS

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LANDSCAPE NOTES:

1. LANDSCAPE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL LANDSCAPE MATERIAL WITH RELATED IRRIGATION, SITE WORK, AND FINAL GRADING.

2. BY BIDDING, THE CONTRACTOR ACKNOWLEDGES THAT HE/SHE HAS SATISFIED HIMSELF/HERSELF AS TO THE NATURE AND LOCATION OF THE WORK AND TO THE QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES IN SO FAR AS THE DATA IS REASONABLY ASCERTAINABLE FROM INSPECTION OF THE SITE. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF/HERSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM/HER FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK AS DESCRIBED.

3. THE LANDSCAPE CONTRACTOR SHALL IDENTIFY AND REVIEW ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO COMMENCING WORK AND SHALL EXERCISE EXTREME CAUTION WHEN WORKING CLOSE TO UTILITIES, AND SHALL NOTIFY THE OWNER OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. CONTRACTOR MUST PROTECT ALL EXISTING LANDSCAPING AND HARDSCAPE ADJACENT TO PROPOSED LANDSCAPING IN THIS CONTRACT. LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DAMAGE AND SHALL REPLACE DAMAGED PLANT MATERIAL WITH PLANTS OF EQUAL SIZE AND QUALITY AND SHALL REPAIR ANY DAMAGE TO SIDEWALKS OR ADJACENT STRUCTURES.

4. ALL INVASIVE SPECIES SHALL BE REMOVED FROM THE PROPERTY PRIOR TO COMMENCING WITH IRRIGATION AND LANDSCAPE INSTALLATION.

5. PLANS: ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES RE-VEGETATED PER PLANTING SCHEDULE AND SPECIFICATIONS OR APPROVED EQUAL BY LANDSCAPE ARCHITECT, AND SHALL BE TEMPORARILY IRRIGATED UNTIL ESTABLISHMENT AND ACCEPTED BY THE OWNER.

6. LAYOUT AND FINAL GRADING: LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATELY LAYING OUT THE PLANT BEDS AND TURF AREAS.
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND FINAL GRADING OF ALL TURF AND BED AREAS. REVIEW WITH OWNER THE EXTENT OF CLEANUP AND GRADING OF AREA PRIOR TO COMMENCING WORK. TURF AND HYDROMULCH AREAS SHALL BE RAKED SMOOTH, REMOVING AND DISPOSING OF STONES OVER 1" DIAMETER AND FINE GRADED TO FEATHER INTO NATURAL GRADE. ALL AREAS SHALL BE FINE GRADED TO ACHIEVE POSITIVE DRAINAGE WITHOUT PUDDLES OR STANDING WATER.

7. TOPSOIL/TURF AREAS: ALL AREAS RECEIVING HYDROMULCH / BROADCAST SEEDING WHERE TOPSOIL IS NOT PROVIDED, SHALL BE SCARIFIED TO A DEPTH OF THREE INCHES (3") MINIMUM, RAKED AND CLUMPS OVER 1" DIAMETER BROKEN DOWN OR REMOVED PRIOR TO SEEDING OPERATIONS. TOPSOIL AND SCARIFICATION SHALL BE SUBSIDIARY TO SOD, HYRDOMULCH AND BROADCAST SEEDING UNIT PRICES.

7.1. CONTRACTOR TO REMOVE NURSERY STAKES, TAPE, & TAGS FROM ALL PLANT MATERIAL PRIOR TO PLANTING.

8. PLANTING BED MIX: LIVING EARTH TECHNOLOGIES MIX OR APPROVED EQUAL IS TO BE USED FOR PLANTING BACKFILL MIXTURES FOR NEW BEDS. MINIMUM BED DEPTH SHALL BE EIGHT INCHES (8").

9. MULCH: FOLLOWING PLANTING, MULCH "FULLY-PREPARED" BEDS AND MULCHED WITH THREE INCHES (3") LAYER OF SHREDDED HARDWOOD MULCH AND FILL BASINS OF PIT-PLANTED SHRUBS WITH MULCH.

10. RE-VEGETATION: ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RE-VEGETATED AND TEMPORARILY IRRIGATED BY THE CONTRACTOR UNTIL ESTABLISHED AND ACCEPTED BY THE OWNER. COMPENSATION FOR DISTURBED AREAS NOT SHOWN TO BE RE-VEGETATED AND OUTSIDE OF APPROVED LIMITS OF CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

11. MAINTENANCE: REGULAR MAINTENANCE IS REQUIRED OF ALL LANDSCAPE AREAS AND PLANT MATERIALS IN A VIGOROUS AND HEALTHY CONDITION, FREE FROM DISEASES, PEST WEEDS, LITTER AND CONSTRUCTION DEBRIS. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZATION, PRUNING, MOWING, EDGING, MULCHING OR OTHER NEEDED MAINTENANCE, IN ACCORDANCE WITH GENERALLY ACCEPTED HORTICULTURAL PRACTICES UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE OWNER AND PROJECT LANDSCAPE ARCHITECT.

12. WARRANTY: CONTRACTOR SHALL PROVIDE A ONE-YEAR REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS. WARRANTY SHALL COVER PLANTS WHICH HAVE DIED OR PARTIALLY DIED (THEREBY RUINING THEIR NATURAL SHAPE), BUT SHALL NOT INCLUDE DAMAGE BY VANDALISM, BROWSING, HAIL, ABNORMAL FREEZES, DROUGHT OR NEGLIGENCE BY THE OWNER. THE WARRANTY IS INTENDED TO COVER CONTRACTOR NEGLIGENCE, INFESTATIONS, DISEASE AND DAMGE OR SHOCK TO PLANTS. PLANTS REPLACED UNDER WARRANTY WILL BE WARRANTED FOR ONE YEAR FOLLOWING REPLACEMENT.

13. LANDSCAPE SPECIFICATIONS: WHEN WRITTEN TECHNICAL SPECIFICATION ARE PROVIDED AND CONFLICT WITH THESE PLANS SPECIFICATIONS, THE PLANS SPECIFICATIONS SHALL PREVAIL FOR THIS PROJECT.

PLANT SCHEDULE - OVERALL

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
MULCH					
	1,424 SF	3" HARDWOOD MULCH OVER WEED FABRIC / MULCH	N/A	3" DEPTH	
SOD					
	58,125 SF	CYNODON DACTYLON `TIF 419` / TIF 419 BERMUDAGRASS REFER TO SPECIFICATIONS FOR APPLICATION RATE.	ROLL SOD		

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REVISION

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REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1895
STATE OF TEXAS

10/17/25

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PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

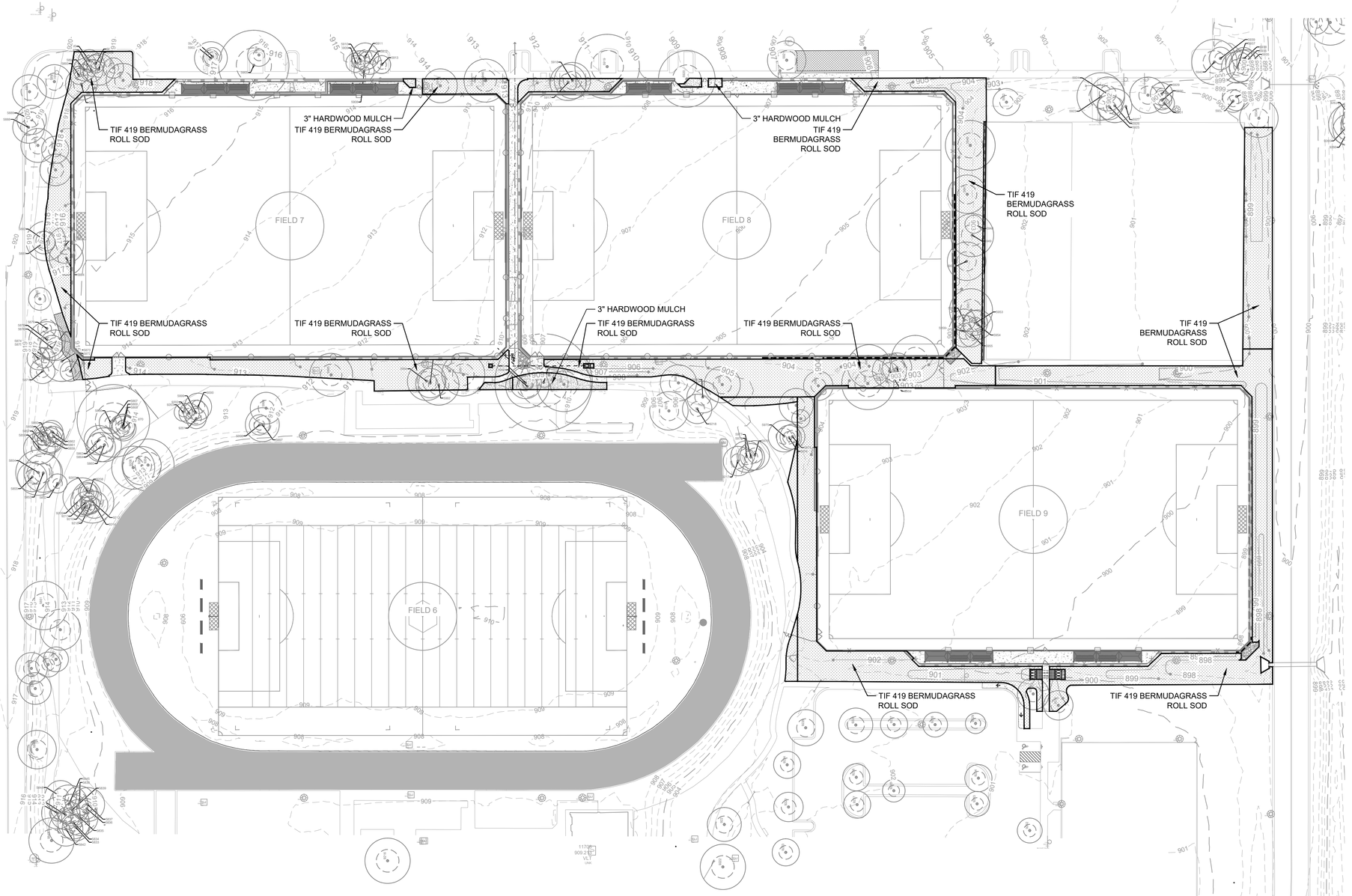
LANDSCAPE NOTES
& DETAILS

L500A

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-PLANTING-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ah3106 AVO: 31001.005

PLANT SCHEDULE - OVERALL

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
MULCH					
	1,424 SF	3" HARDWOOD MULCH OVER WEED FABRIC / MULCH	N/A	3" DEPTH	
SOD					
	58,125 SF	CYNODON DACTYLON `TIF 419` / TIF 419 BERMUDAGRASS REFER TO SPECIFICATIONS FOR APPLICATION RATE.	ROLL SOD		



NOTES:

1. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS USING TIF 419 BERMUDAGRASS ROLL SOD PER PLANTING SCHEDULE AND SPECIFICATIONS OR APPROVED EQUAL BY LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY IRRIGATION AS REQUIRED TO ENSURE PROPER ESTABLISHMENT OF SOD UNTIL FINAL PROJECT ACCEPTANCE.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 25 50 100
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4800

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
6895
STATE OF TEXAS
10/17/25

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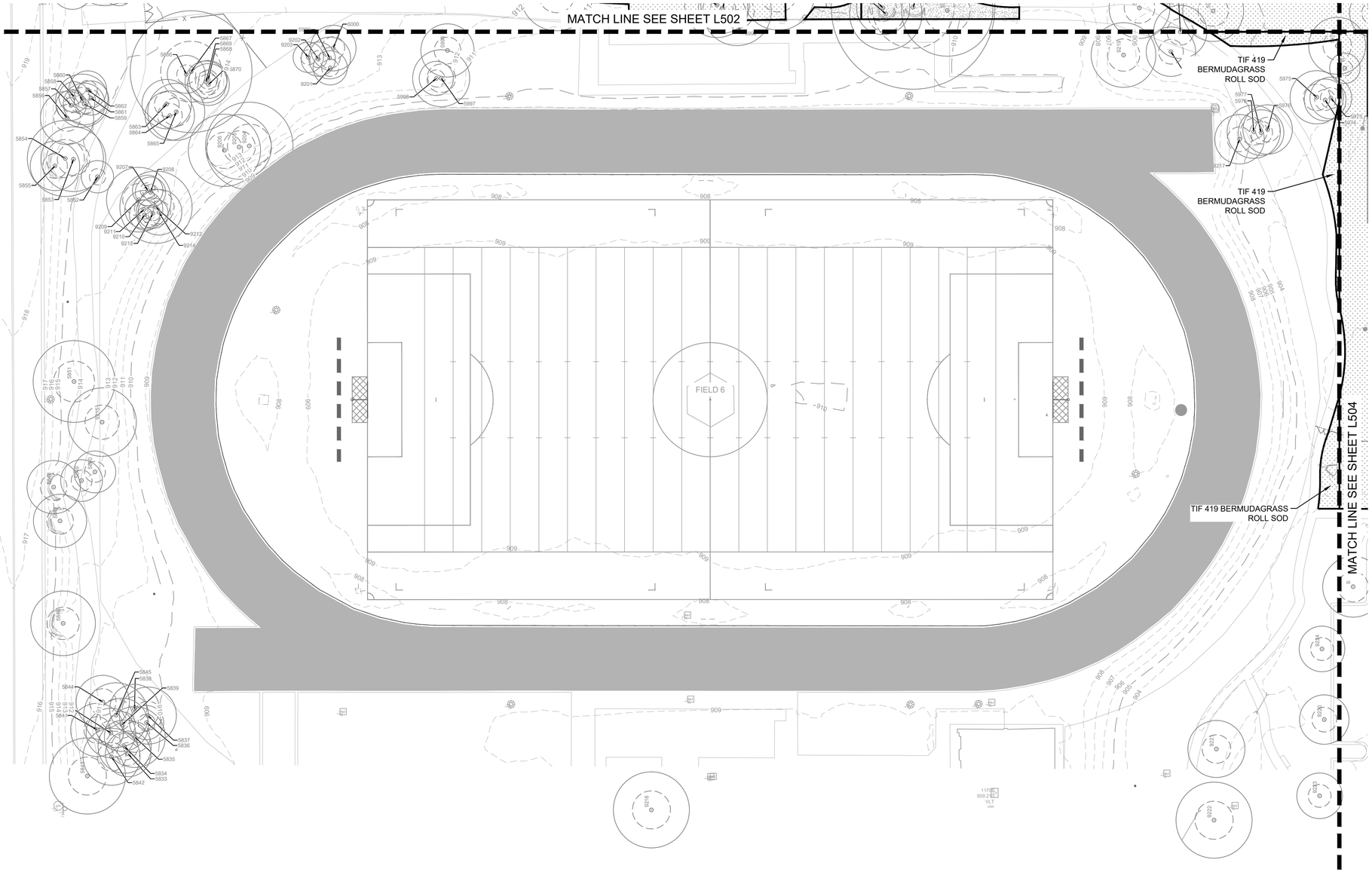
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

OVERALL
PLANTING PLAN

L500B

FILE NAME: A:\60000s\60316\0011LA\CADD\Sheets\L-PLAN-PLANTING-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ah3106 AVO: 31001.005



PLANT SCHEDULE 501

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
SOD				
	1,221 SF	CYNODON DACTYLON 'TIF 419' / TIF 419 BERMUDAGRASS REFER TO SPECIFICATIONS FOR APPLICATION RATE.	ROLL SOD	

NOTES:

1. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS USING TIF 419 BERMUDAGRASS ROLL SOD PER PLANTING SCHEDULE AND SPECIFICATIONS OR APPROVED EQUAL BY LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY IRRIGATION AS REQUIRED TO ENSURE PROPER ESTABLISHMENT OF SOD UNTIL FINAL PROJECT ACCEPTANCE.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

0 15 30 60
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2697
STATE OF TEXAS
10/17/25

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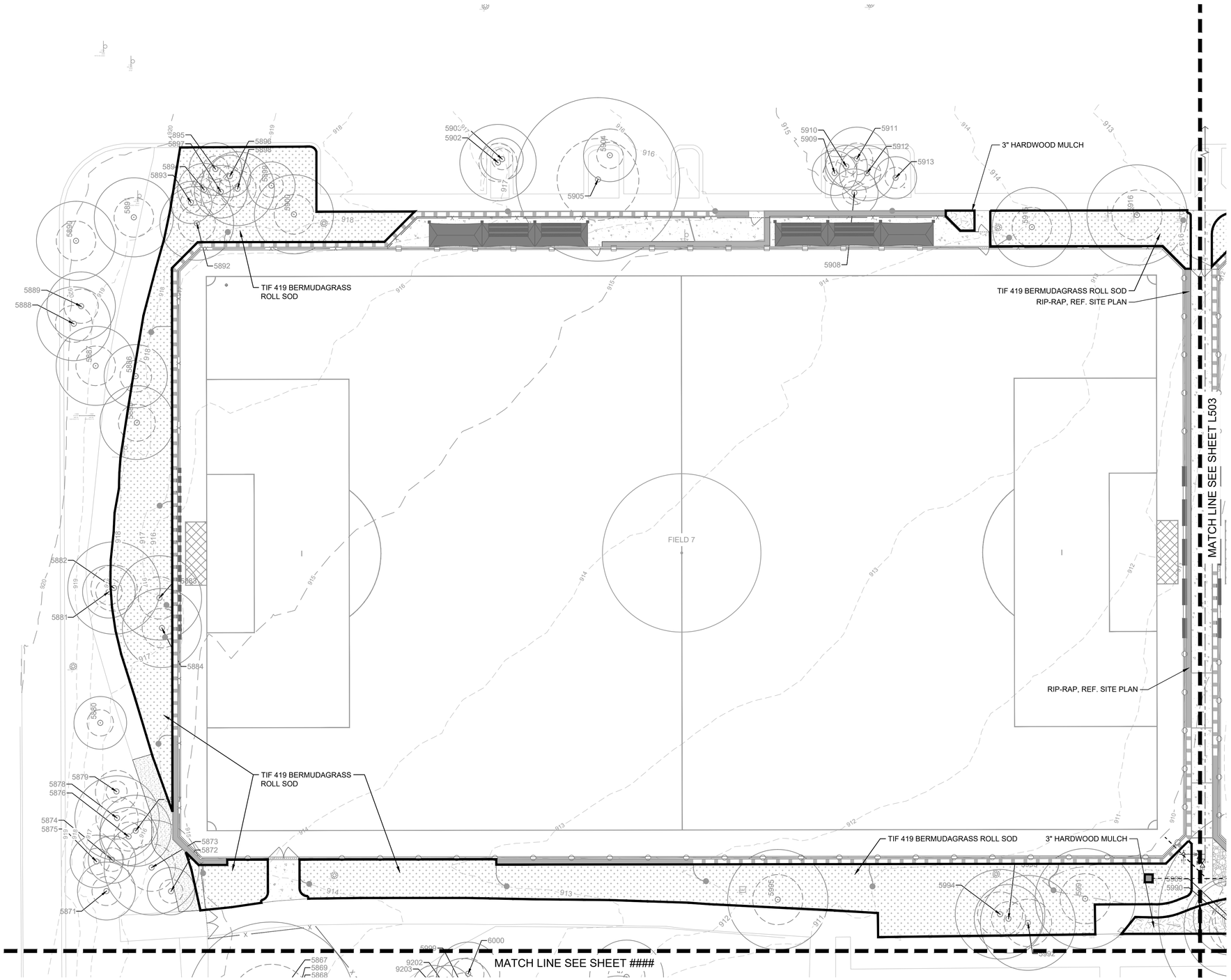
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

LANDSCAPE PLAN

L501

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-PLANTING-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ak3106 AVO: 31001.005



PLANT SCHEDULE 502

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
MULCH	265 SF	3" HARDWOOD MULCH OVER WEED FABRIC / MULCH	N/A	3" DEPTH	
SOD	13,252 SF	CYNODON DACTYLON 'TIF 419' / TIF 419 BERMUDAGRASS REFER TO SPECIFICATIONS FOR APPLICATION RATE.	ROLL SOD		

NOTES:

1. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS USING TIF 419 BERMUDAGRASS ROLL SOD PER PLANTING SCHEDULE AND SPECIFICATIONS OR APPROVED EQUAL BY LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY IRRIGATION AS REQUIRED TO ENSURE PROPER ESTABLISHMENT OF SOD UNTIL FINAL PROJECT ACCEPTANCE.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION

NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
1895
STATE OF TEXAS
10/17/25

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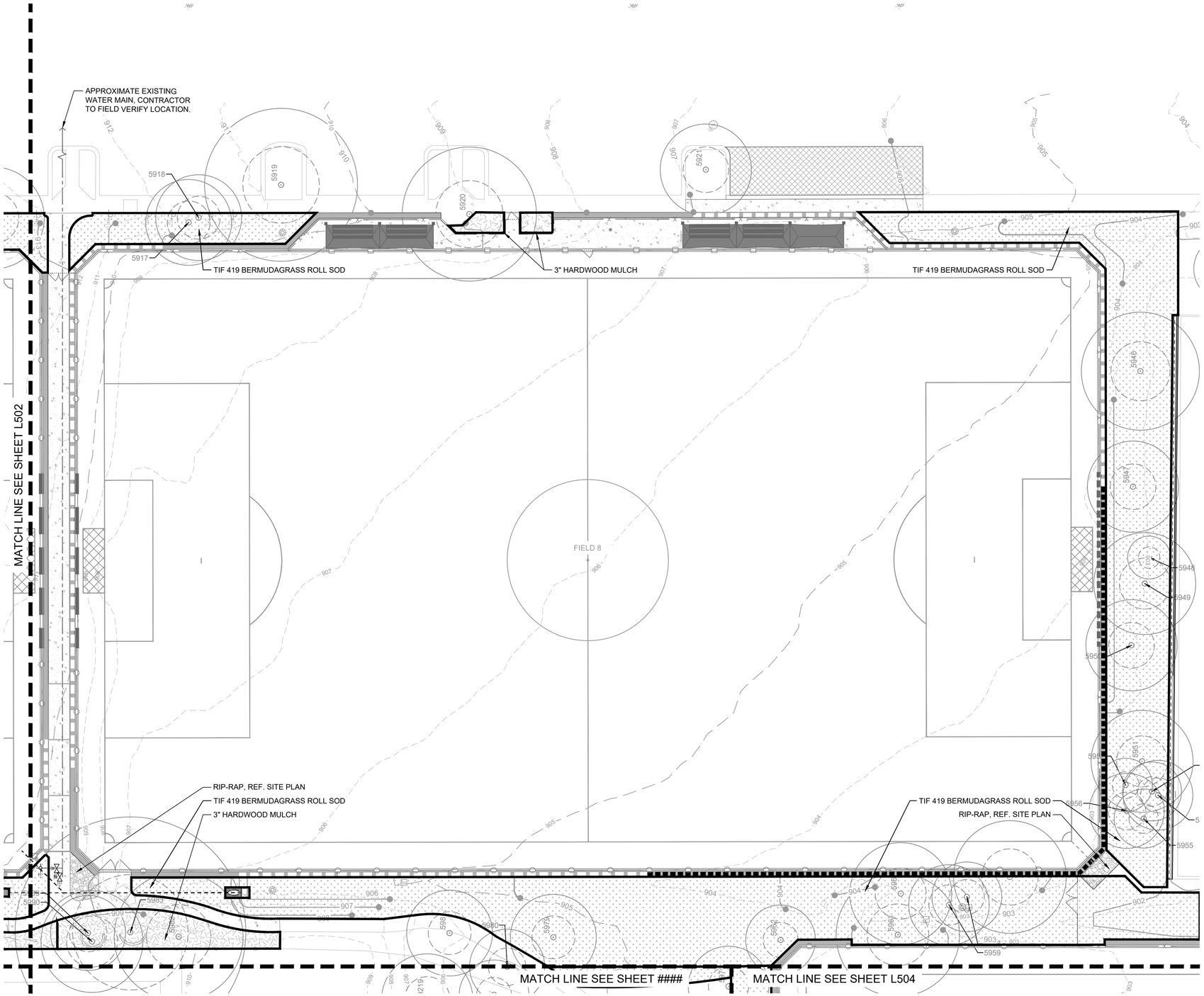
PROJECT NO.:	60316.001
ISSUED:	10/17/25
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CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

LANDSCAPE PLAN

L502

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PLANT SCHEDULE 503

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
MULCH					
	1,159 SF	3" HARDWOOD MULCH OVER WEED FABRIC / MULCH	N/A	3" DEPTH	
SOD					
	17,062 SF	CYNODON DACTYLON `TIF 419` / TIF 419 BERMUDAGRASS REFER TO SPECIFICATIONS FOR APPLICATION RATE.	ROLL SOD		

NOTES:

1. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS USING TIF 419 BERMUDAGRASS ROLL SOD PER PLANTING SCHEDULE AND SPECIFICATIONS OR APPROVED EQUAL BY LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY IRRIGATION AS REQUIRED TO ENSURE PROPER ESTABLISHMENT OF SOD UNTIL FINAL PROJECT ACCEPTANCE.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2619
STATE OF TEXAS

10/17/25

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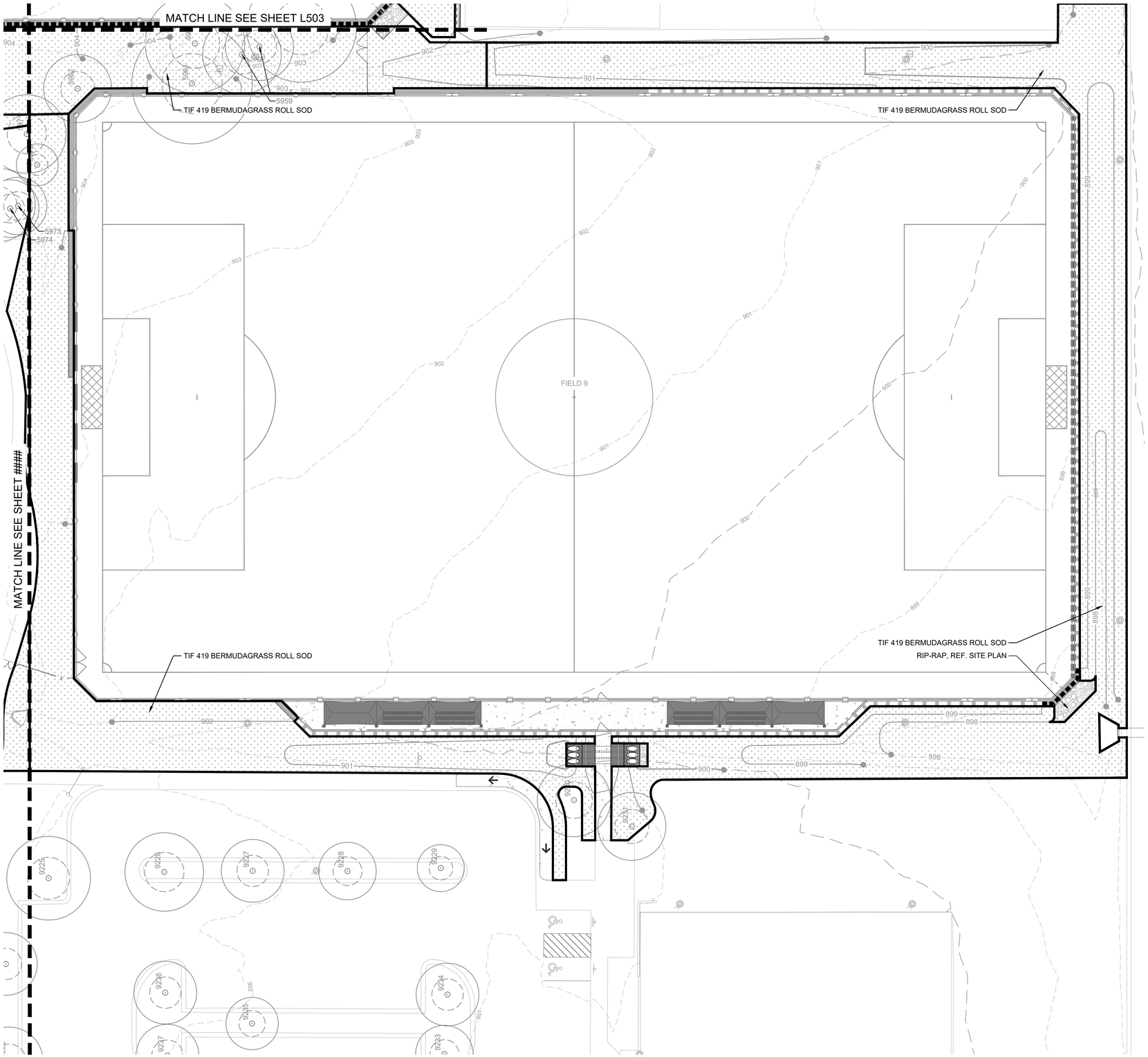
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

LANDSCAPE PLAN

L503

FILE NAME: A:\60000s\60316\001\LACADD\Sheets\L-PLAN-PLANTING-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ab3106 AVO: 31001.005



PLANT SCHEDULE 504

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
SOD	36,439 SF	CYNODON DACTYLON `TIF 419' / TIF 419 BERMUDAGRASS REFER TO SPECIFICATIONS FOR APPLICATION RATE.	ROLL SOD	

NOTES:

1. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS USING TIF 419 BERMUDAGRASS ROLL SOD PER PLANTING SCHEDULE AND SPECIFICATIONS OR APPROVED EQUAL BY LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY IRRIGATION AS REQUIRED TO ENSURE PROPER ESTABLISHMENT OF SOD UNTIL FINAL PROJECT ACCEPTANCE.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

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TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN M. BINKOWSKI
2895
STATE OF TEXAS

10/17/25

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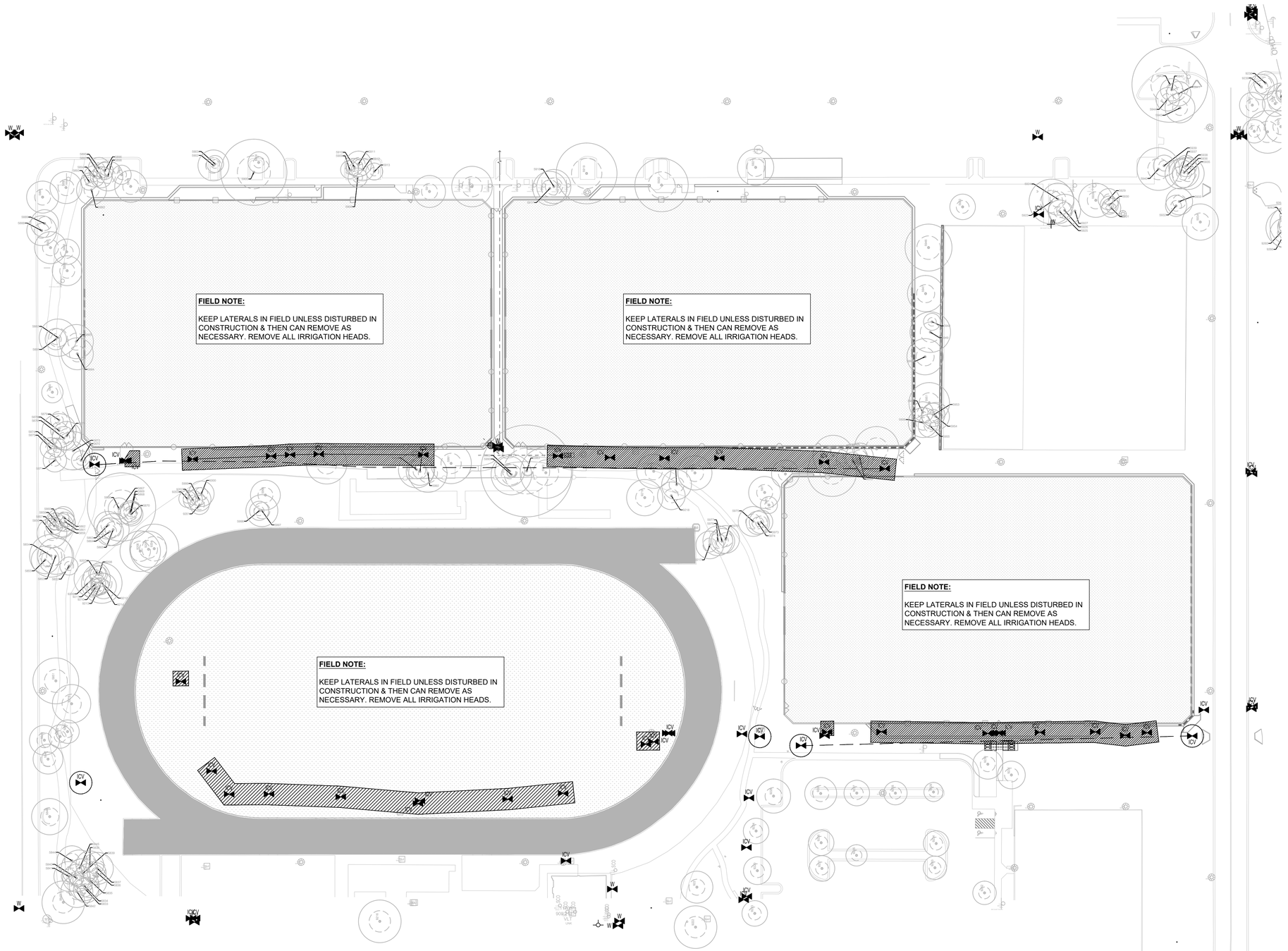
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SHEET TITLE

LANDSCAPE PLAN

L504

FILE NAME: A:\60000s\60316\001\LACADD\Sheets\L-PLAN-PLANTING-60316.001.dwg DATE: October 16, 2025, TIME: 10:22 AM, USER: ali3106 AVO: 31001.005



OVERALL NOTE:

REFER TO ENLARGEMENT SHEETS L601 - L604
FOR MORE DETAILED IRRIGATION INFORMATION

IRRIGATION NOTES:

1. EXISTING IRRIGATION SYSTEM WAS FIELD-EVALUATED ON 08/28/2025 BY HALFF AND WILLIAMSON COUNTY PARK STAFF. CONTRACTOR SHALL PERFORM THEIR OWN RECONNAISSANCE AND VERIFICATION OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING SYSTEMS DURING CONSTRUCTION.
2. **EXISTING MAINLINE IS SHOWN FOR GRAPHIC PURPOSES ONLY.** ACTUAL LOCATION AND ALIGNMENT MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. EXISTING IRRIGATION MAINLINE FOR FIELDS 6, 7, 8, AND 9 TO REMAIN OFF/INACTIVE DURING CONSTRUCTION.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- EXISTING MATERIAL DEMOLITION / REMOVAL
- EXISTING IRRIGATION VALVE & BOXES

N

0 25 50 100
SCALE IN FEET

SOUTHWEST REGIONAL PARK -
FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN M. BINKOWSKI
6895
STATE OF TEXAS
10/17/25

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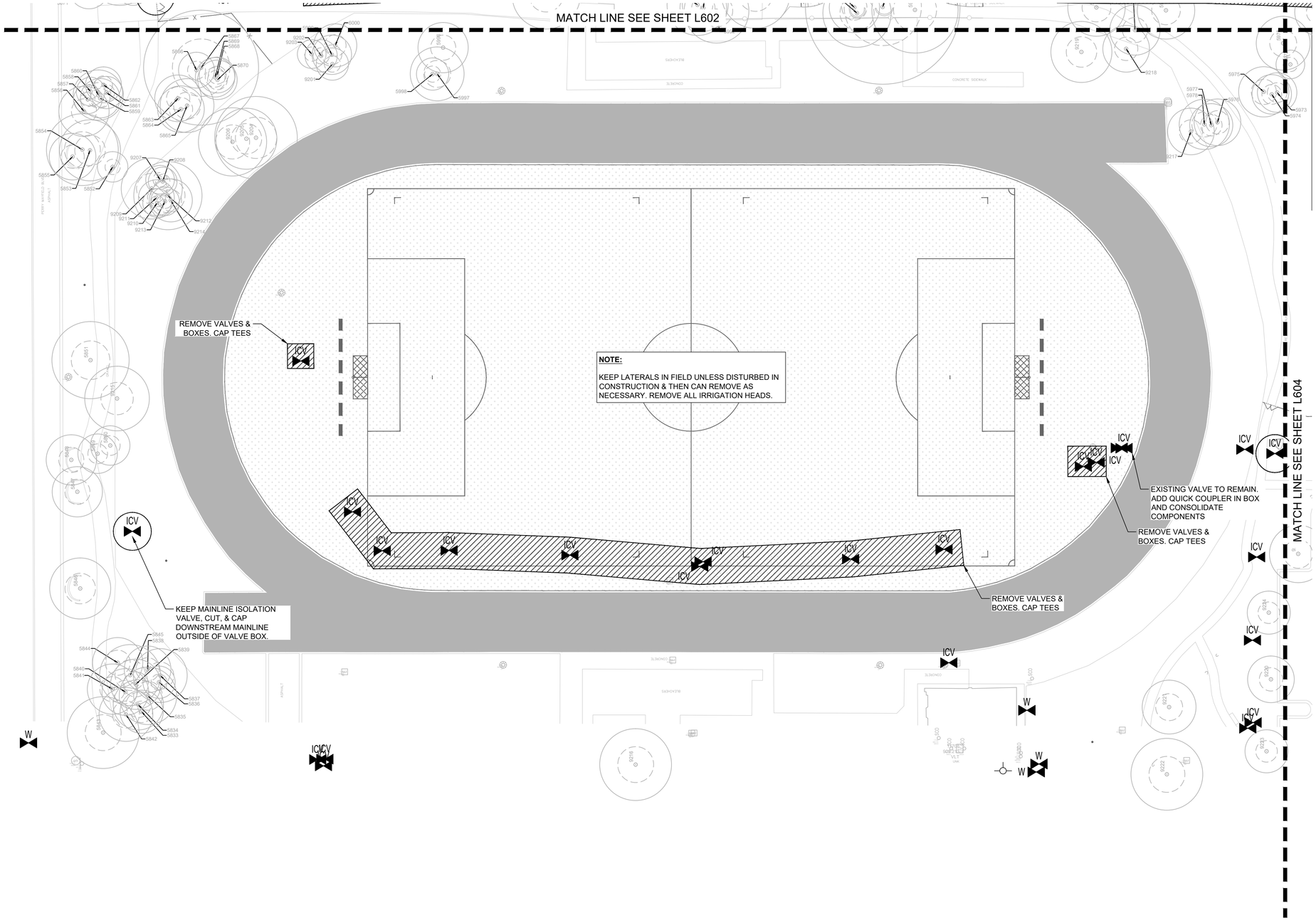
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SHEET TITLE

OVERALL
IRRIGATION PLAN

L600

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-IRR-60316.001.dwg DATE: October 16, 2025, TIME: 10:23 AM, USER: ah3106 AVO: 31001.005



IRRIGATION NOTES:

1. EXISTING IRRIGATION SYSTEM WAS FIELD-EVALUATED ON 08/28/2025 BY HALFF AND WILLIAMSON COUNTY PARK STAFF. CONTRACTOR SHALL PERFORM THEIR OWN RECONNAISSANCE AND VERIFICATION OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING SYSTEMS DURING CONSTRUCTION.
2. **EXISTING MAINLINE IS SHOWN FOR GRAPHIC PURPOSES ONLY.** ACTUAL LOCATION AND ALIGNMENT MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. EXISTING IRRIGATION MAINLINE FOR FIELDS 6, 7, 8, AND 9 TO REMAIN OFF/INACTIVE DURING CONSTRUCTION.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- EXISTING MATERIAL DEMOLITION / REMOVAL
- ICV — EXISTING IRRIGATION VALVE & BOXES

N

0 15 30 60
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

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LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
STATE OF TEXAS
10/17/25

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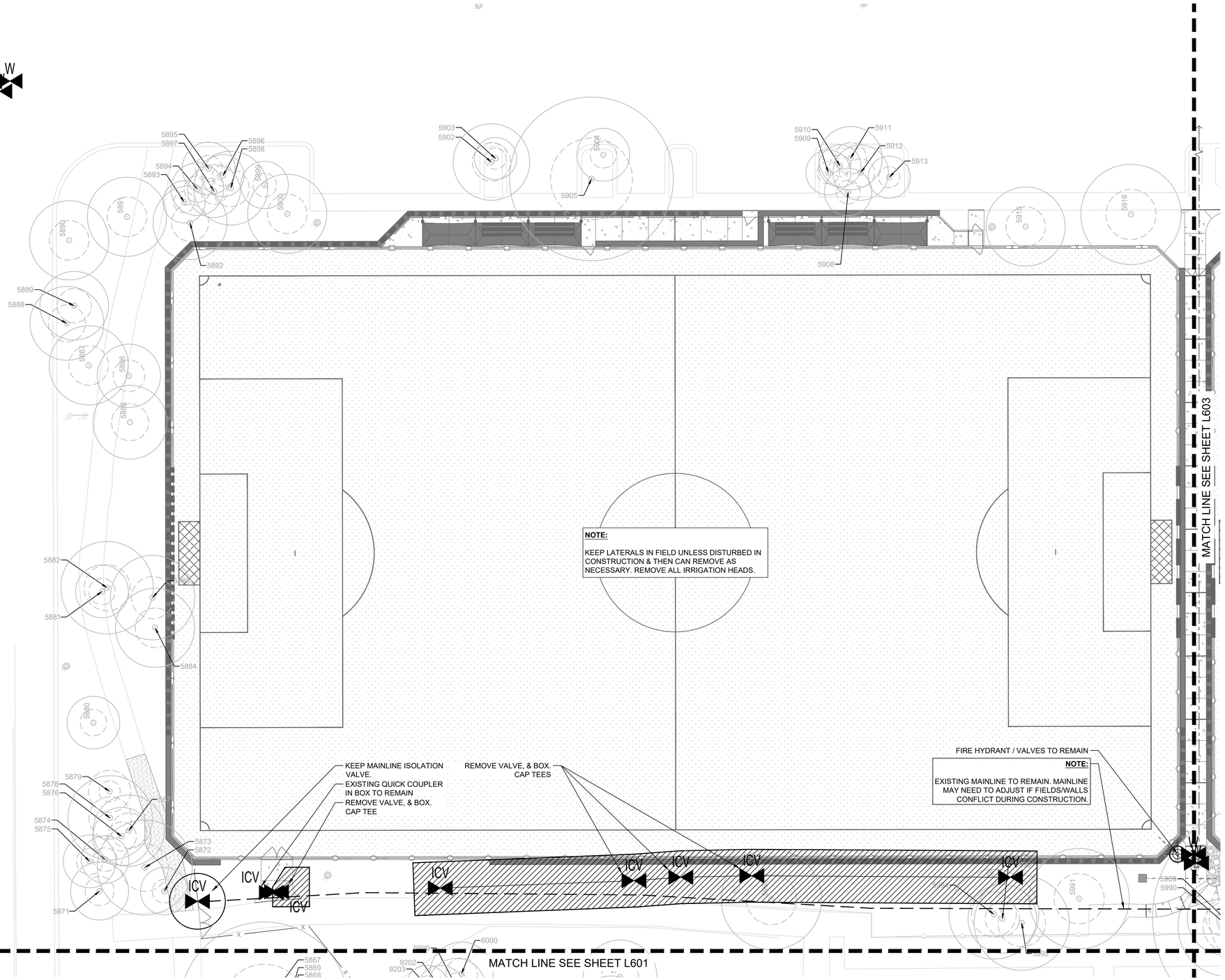
PROJECT NO.:	60316.001
ISSUED:	10/17/25
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SCALE:	AS SHOWN

SHEET TITLE

IRRIGATION PLAN

L601

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-IRR-60316.001.dwg DATE: October 16, 2025, TIME: 10:23 AM, USER: ah3106 AVO: 31001.005



IRRIGATION NOTES:

1. EXISTING IRRIGATION SYSTEM WAS FIELD-EVALUATED ON 08/28/2025 BY HALFF AND WILLIAMSON COUNTY PARK STAFF. CONTRACTOR SHALL PERFORM THEIR OWN RECONNAISSANCE AND VERIFICATION OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING SYSTEMS DURING CONSTRUCTION.
2. **EXISTING MAINLINE IS SHOWN FOR GRAPHIC PURPOSES ONLY.** ACTUAL LOCATION AND ALIGNMENT MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. EXISTING IRRIGATION MAINLINE FOR FIELDS 6, 7, 8, AND 9 TO REMAIN OFF/INACTIVE DURING CONSTRUCTION.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- 1000 — TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- EXISTING MATERIAL DEMOLITION / REMOVAL
- ICV — EXISTING IRRIGATION VALVE & BOXES

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION		
NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN R. BINKOWSKI
2891
STATE OF TEXAS
10/17/25

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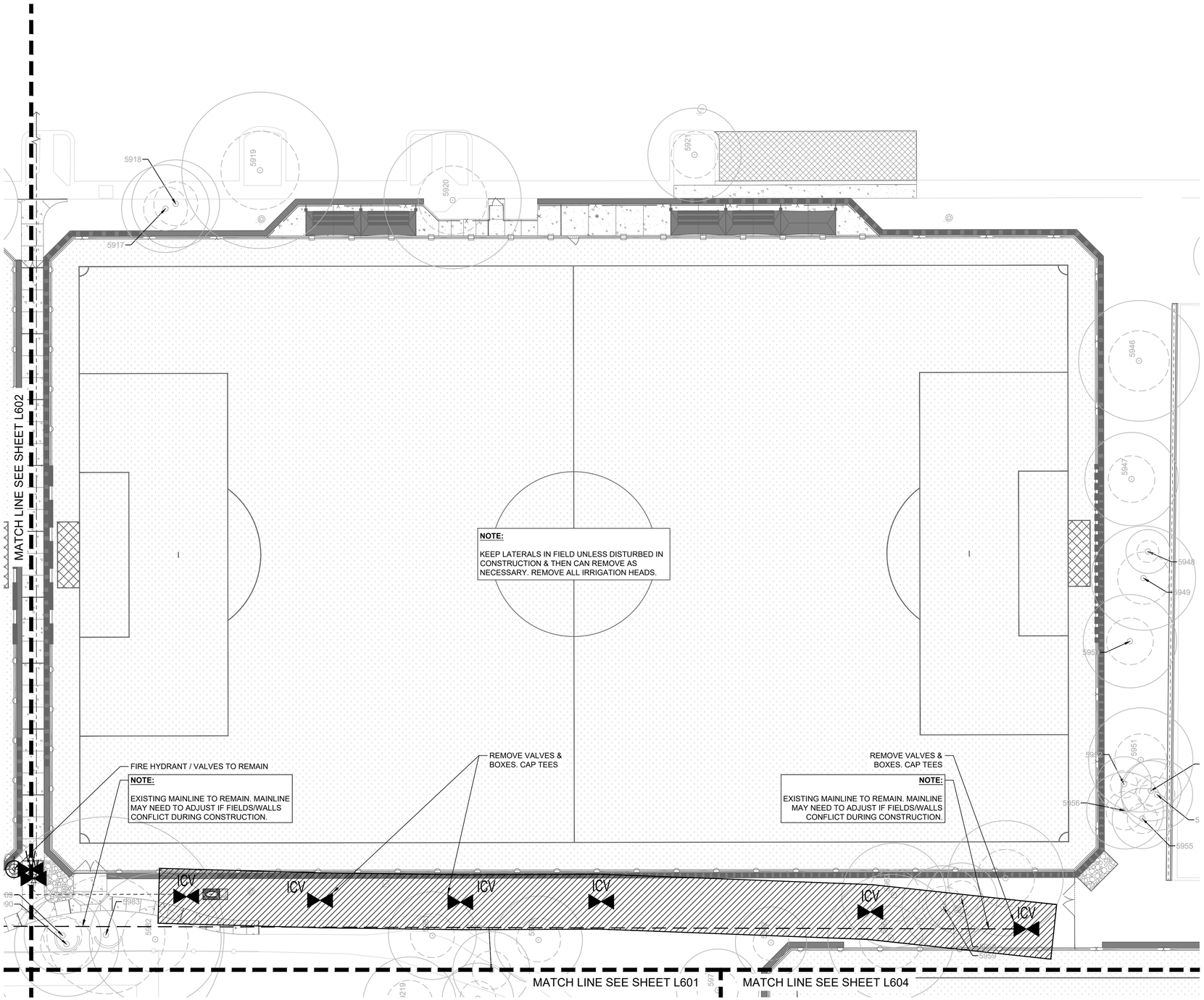
PROJECT NO.:	60316.001
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CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

IRRIGATION PLAN

L602

FILE NAME: A:\60000s\60316\001\LA\CADD\Sheets\L-PLAN-IRR-60316.001.dwg DATE: October 16, 2025, TIME: 10:23 AM, USER: ah3106 AVO: 31001.005



IRRIGATION NOTES:

1. EXISTING IRRIGATION SYSTEM WAS FIELD-EVALUATED ON 08/28/2025 BY HALFF AND WILLIAMSON COUNTY PARK STAFF. CONTRACTOR SHALL PERFORM THEIR OWN RECONNAISSANCE AND VERIFICATION OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING SYSTEMS DURING CONSTRUCTION.
2. **EXISTING MAINLINE IS SHOWN FOR GRAPHIC PURPOSES ONLY.** ACTUAL LOCATION AND ALIGNMENT MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. EXISTING IRRIGATION MAINLINE FOR FIELDS 6, 7, 8, AND 9 TO REMAIN OFF/INACTIVE DURING CONSTRUCTION.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- EXISTING MATERIAL DEMOLITION / REMOVAL
- ICV — EXISTING IRRIGATION VALVE & BOXES

N

0 10 20 40
SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
100% CONSTRUCTION DOCUMENTS

3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT
BRIAN M. BINKOWSKI
2654
STATE OF TEXAS
10/17/25

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PROJECT NO.:	60316.001
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SHEET TITLE

IRRIGATION PLAN

L603

FILE NAME: A:\60000s\60316\001\LACADD\Sheets\L-PLAN-IRR-60316.001.dwg DATE: October 16, 2025, TIME: 10:23 AM, USER: ah3106 AVO: 31001.005

MATCH LINE SEE SHEET L603

MATCH LINE SEE SHEET L601

ICV

ICV

5959

5971

5973

5974

REMOVE VALVES & BOXES. CAP TEES

NOTE:

EXISTING MAINLINE TO REMAIN. MAINLINE MAY NEED TO ADJUST IF FIELDS/WALLS CONFLICT DURING CONSTRUCTION.

NOTE:

KEEP LATERALS IN FIELD UNLESS DISTURBED IN CONSTRUCTION & THEN CAN REMOVE AS NECESSARY. REMOVE ALL IRRIGATION HEADS.

KEEP ISOLATION VALVES

NOTE:

EXISTING MAINLINE TO REMAIN. MAINLINE MAY NEED TO ADJUST IF FIELDS/WALLS CONFLICT DURING CONSTRUCTION.

REMOVE VALVES & BOXES. CAP TEES

REMOVE VALVES & BOXES. CAP TEES

KEEP ISOLATION VALVE

NOTE:

EXISTING MAINLINE TO REMAIN. MAINLINE MAY NEED TO ADJUST IF FIELDS/WALLS CONFLICT DURING CONSTRUCTION.

REMOVE VALVES & BOXES. CAP TEES

KEEP QUICK COUPLER & BOX

9225

9226

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IRRIGATION NOTES:

1. EXISTING IRRIGATION SYSTEM WAS FIELD-EVALUATED ON 08/28/2025 BY HALFF AND WILLIAMSON COUNTY PARK STAFF. CONTRACTOR SHALL PERFORM THEIR OWN RECONNAISSANCE AND VERIFICATION OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING SYSTEMS DURING CONSTRUCTION.
2. **EXISTING MAINLINE IS SHOWN FOR GRAPHIC PURPOSES ONLY.** ACTUAL LOCATION AND ALIGNMENT MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. EXISTING IRRIGATION MAINLINE FOR FIELDS 6, 7, 8, AND 9 TO REMAIN OFF/INACTIVE DURING CONSTRUCTION.

LEGEND

- PROPERTY LINE
- RETAINING WALLS (0 TO 2 FT.)
- RETAINING WALLS (0 TO 4 FT.)
- RETAINING WALLS (4 TO 6 FT.)
- TREE TO BE SAVED (W / HALF CRITICAL ROOT ZONE - DASHED)
- EXISTING MATERIAL DEMOLITION / REMOVAL
- ICV — EXISTING IRRIGATION VALVE & BOXES

N

0 10 20 40

SCALE IN FEET

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES

100% CONSTRUCTION DOCUMENTS

3005 CO RD 175, LEANDER, TX

WILCO TEXAS

halff

13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

REVISION NO.	DATE	DESCRIPTION

REGISTERED LANDSCAPE ARCHITECT BRIAN R. BINKOWSKI 5547 STATE OF TEXAS

10/17/25

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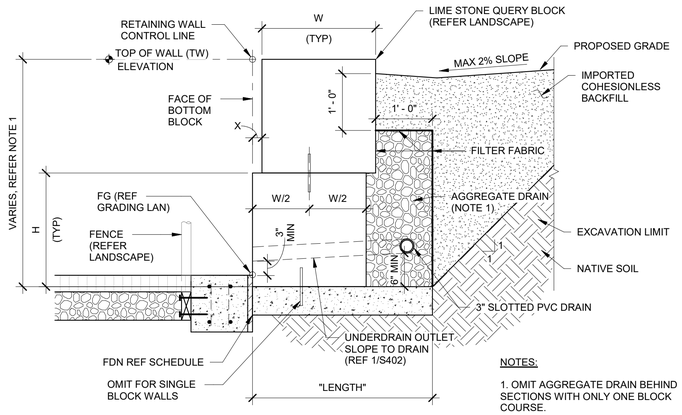
PROJECT NO.:	60316.001
ISSUED:	10/17/25
DRAWN BY:	BM
CHECKED BY:	BB
SCALE:	AS SHOWN

SHEET TITLE

IRRIGATION PLAN

L604

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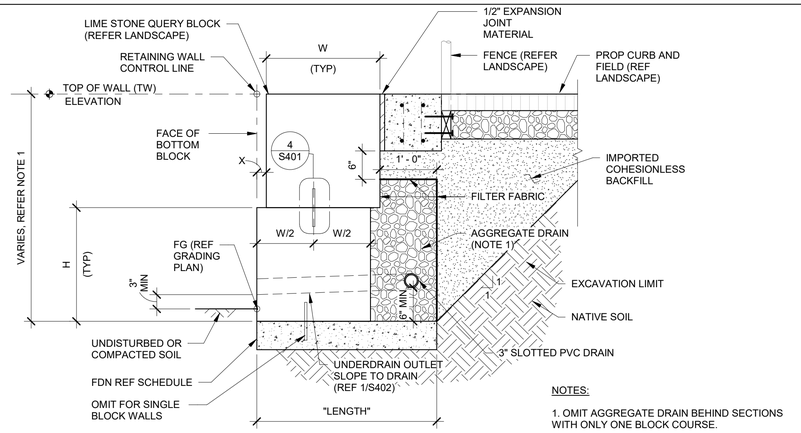


NOTES:

1. OMIT AGGREGATE DRAIN BEHIND SECTIONS WITH ONLY ONE BLOCK COURSE.

1 RETAINING WALL TYPE 1 SECTION AT BACKFIELD

3/4" = 1'-0"



NOTES:

1. OMIT AGGREGATE DRAIN BEHIND SECTIONS WITH ONLY ONE BLOCK COURSE.

2 RETAINING WALL TYPE 1 SECTION AT INFIELD

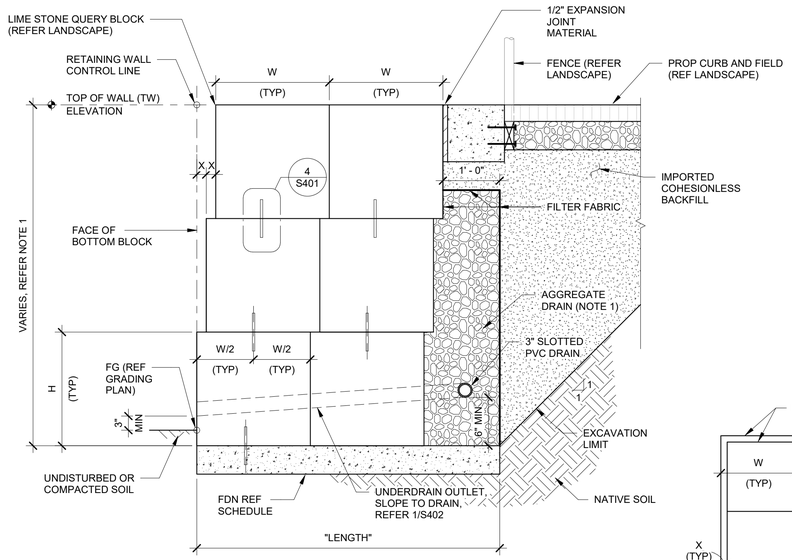
3/4" = 1'-0"

RETAINING WALL DESIGN TABLE				
TYPE	W	H	L	X
I	2'-0"	2'-0"	4'-0"	0"
II	2'-0"	2'-0"	4'-0"	0"

FOUNDATION SCHEDULE					
RETAINING WALL TYPE	NUMBER OF BLOCK COURSES	FOUNDATIONTYPE	THICKNESS (NOTE 2)	LENGTH	REINFORCEMENT
TYPE 1	1	CRUSHED STONE (NOTE 1)	6"- 12"	W+18"	-
TYPE 1	2	CONCRETE	6"	W+18"	#4 @ 18" OC EW MID DEPTH
TYPE 1	2	CONCRETE	12"	W+18"	#4 @ 18" OC EW T&B
TYPE 2	3	CONCRETE	6"	2W+18"	#4 @ 18" OC EW MID DEPTH
TYPE 2	3	CONCRETE	12"	2W+18"	#4 @ 18" OC EW T&B

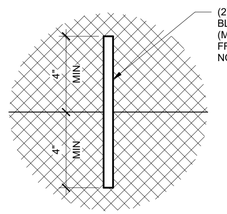
NOTES:

1. CRUSHED STONE FOUNDATION SHALL BE TXDOT TYPE DS MATERIAL COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D689 WITH A MAXIMUM OF 8-INCH LIFTS.
2. FOUNDATION THICKNESS SHALL BE DETERMINED BY SUPPORTING SOIL TYPE. FOUNDATIONS. FOUNDATIONS SHALL BEAR A MINIMUM 1'-0" INTO ONSITE CLAY AND SELECT FILL SOILS, AND A MINIMUM 0'-6" INTO ROCK. A GEOTECHNICAL ENGINEER SHALL VERIFY SUPPORTING SOIL TYPE AND CONTRACTOR SHALL DETERMINE REQUIRED FOUNDATION THICKNESS AS REQUIRED.



3 RETAINING WALL TYPE 2 SECTION

3/4" = 1'-0"

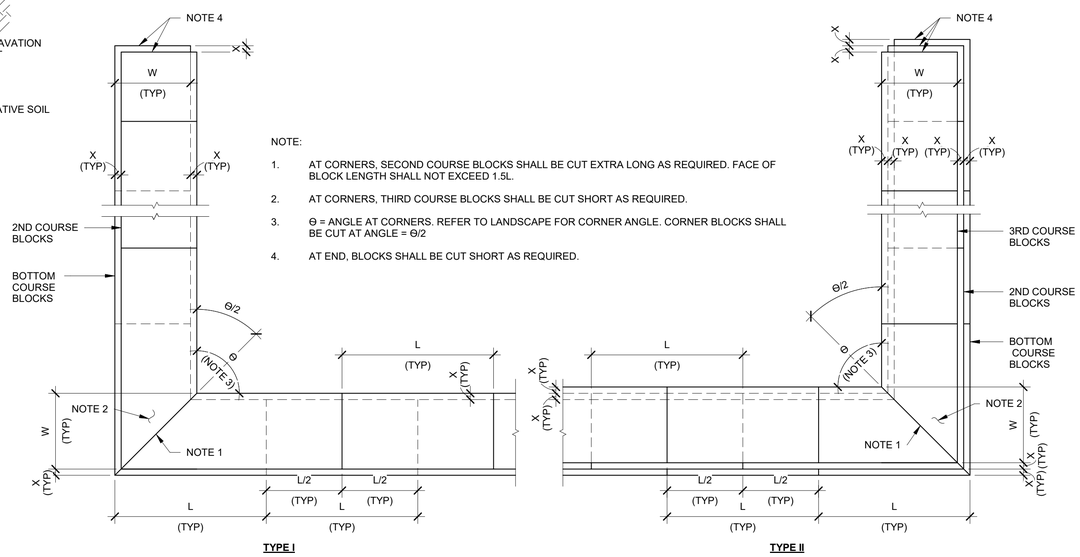


NOTES:

1. DRILL AND EPOXY DOWELS USING HILTI RE 500 V3, DEWAL PURE 110+ OR ENGINEERED APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

4 TYPICAL SHEAR DOWEL DETAIL

NTS



NOTE:

1. AT CORNERS, SECOND COURSE BLOCKS SHALL BE CUT EXTRA LONG AS REQUIRED. FACE OF BLOCK LENGTH SHALL NOT EXCEED 1.5L.
2. AT CORNERS, THIRD COURSE BLOCKS SHALL BE CUT SHORT AS REQUIRED.
3. Θ = ANGLE AT CORNERS. REFER TO LANDSCAPE FOR CORNER ANGLE. CORNER BLOCKS SHALL BE CUT AT ANGLE = Θ/2
4. AT END, BLOCKS SHALL BE CUT SHORT AS REQUIRED.

5 BLOCK LAYOUT AT CORNERS AND ENDS

1/2" = 1'-0"

RETAINING WALL GENERAL NOTES

1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND PROJECT SPECIFICATIONS.
2. CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL NOTIFY OWNER OF ANY POTENTIAL CONFLICT IN A TIMELY MANNER.
3. CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
4. DESIGN OF RETAINING WALLS IS BASED ON THE FOLLOWING VALUES:

   ACTIVE CONDITION EQUIVALENT FLUID DENSITY
   IMPORTED COHESIONLESS BACKFILLL .....40 PCF
   LIVE LOAD SURCHARGE
   UNIFORM APPLIED SURCHARGE.....50 PSF
5. WALL DESIGN SHALL BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION AND REPORT BY BEYOND ENGINEERING AND TESTING, LLC. PROJECT NO. GT25007033, DATED SEPTEMBER 11, 2025.
6. IMPORTED COHESIONLESS BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH REQUIREMENTS FOR OUTLINED IN THE GEOTECHNICAL REPORT.
7. COARSE AGGREGATE DRAIN MATERIAL SHALL BE TXDOT TYPE DS SELECT BACKFILL.
8. FILTER FABRIC SHALL CONFORM TO TXDOT DEPARTMENTAL MATERIAL SPECIFICATION D-9-6200. FILTER FABRIC SPLICES SHALL HAVE A MINIMUM OVERLAP OF 18 INCHES.
9. COMPACTION FOR THE BACKFILL MATERIAL SHALL BE PERFORMED WITH HAND EQUIPMENT AND IN ACCORANCE WITH THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL RELEVEL ALL AREAS OF BACKFILL WHERE SETTLEMENT OCCURS. THIS WORK SHALL BE CONSIDERED INCIDENTAL, AND NOT A SEPARATE PAY ITEM.
10. BACKFILL MATERIAL, FILTER FABRIC, SOIL REINFORCEMENT, AND OTHER MATERIALS REQUIRED TO CONSTRUCT COMPLETE RETAINING WALL PER THESE DRAWINGS SHALL BE CONSIDERED SUBSIDIARY TO RETAINING WALL BID ITEM.
11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY STANDARDS, STATE AND LOCAL BUILDING CODES AND MANUFACTURER'S REQUIREMENTS.
12. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SAFE EXCAVATIONS AND EMBANKMENTS ARE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT.
13. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UNDERGROUND UTILITIES. ANY NEW UTILITIES PROPOSED FOR INSTALLATION IN THE VICINITY OF THE RETAINING WALL, SHALL BE INSTALLED CONCURRENT WITH RETAINING WALL CONSTRUCTION. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF SUBCONTRACTORS AFFECTED BY THIS REQUIREMENT.
14. NEW UTILITIES INSTALLED BELOW THE RETAINING WALL SHALL BE BACKFILLED AND COMPACTED TO A MINIMUM OF 98% MAXIMUM DRY DENSITY PER ASTM D698 STANDARD PROCTOR.
15. THE INSPECTION ENGINEER SHALL VERIFY THAT ANY FILL SOIL INSTALLED IN THE FOUNDATION AND RETAINED SOIL ZONES OF THE RETAINING WALL SATISFIES THE SPECIFICATION OF THE RETAINING WALL DESIGN ENGINEER AS SHOWN ON THE CONSTRUCTION DRAWINGS.
16. EMBANKMENT EXCAVATIONS SHALL BE BENCH CUT AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER AND INSPECTED BY THE INSPECTION ENGINEER FOR COMPLIANCE.
17. PRIOR TO CONSTRUCTION OF THE MODULAR BLOCK RETAINING WALL, THE LEVELING PAD AREA AND UNDERCUT ZONE (IF APPLICABLE) SHALL BE CLEARED AND GRUBBED. ALL TOPSOIL, BRUSH, FROZEN SOIL AND ORGANIC MATERIAL SHALL BE REMOVED.
18. OVER-EXCAVATED SOIL SHALL BE REPLACED WITH COMPACTED SELECT FILL IN CONFORMANCE WITH THE REQUIRMENTS OUTLINED IN THE GEOTECHNICAL REPORT.

   SUBMITTALS
19. RETAINING WALL DETAILS AND CIVIL PLANS INDICATE THE REQUIRED BASIC LAYOUT. CONTRACTOR SHALL SUBMIT A DETAILED RETAINING WALL LAYOUT, INCLUDING PLAN AND PROFILE, TO ENGINEER FOR REVIEW PRIOR TO PROCUREMENT.
20. CONTRACTOR SHALL SUBMIT PROPOSED BLOCK FINISH AND COLOR FOR OWNER APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO ORDERING MATERIAL.
21. CONTRACTOR SHALL SUBMIT CONCRETE MIX AND REINFORCMENT LAYOUT TO ENGINEER FOR REVIEW PRIOR TO INSTALLING FOUNDATIONS AND CONCRETE COLLAR.
22. CONTRACTOR SHALL SUBMIT FILTER FABRIC, STEEL PIPE GRATE BARS, AND WATERPROOFING FOR TO ENGINEER FOR REVIEW.

CAST-IN-PLACE CONCRETE

1. MILD STEEL REINFORCEMENT AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI SP-66.
2. PORTLAND CEMENT SHALL BE A SINGLE BRAND CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE NOTED.
3. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C 33. ALL CONCRETE SHALL USE NORMAL WEIGHT AGGREGATES, UNLESS NOTED OTHERWISE.
4. ALL ADDITIVES FOR AIR ENTRAINMENT, WATER REDUCTION, AND SET CONTROL SHALL USE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. THE USE OF CALCIUM CHLORIDE IS PROHIBITED.
5. MIXES SHALL BE DESIGNED TO PROVIDE CONCRETE WITH A COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI.
6. MILD STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
7. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

   FOUNDATIONS.....1 1/2" TOP
   ..... 3" BOT. & SIDES
8. CONCRETE SLUMPS SHALL BE AS FOLLOWS:
   CONCRETE CONTAINING SUPERPLSTICIZER .....8" MAX.
   ALL OTHER CONCRETE.....4" MAX.
9. CONCRETE SHALL REACH 75% OF SPECIFIED STRENGTH BEFORE CONSTRUCTION LOADS ARE APPLIED.
10. MAXIMUM AGGREGATE SIZE SHALL BE LIMITED TO 1 1/2".

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
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3005 CO RD 175,
LEANDER, TX

WILCO TEXAS

halff
13920 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512)777-4600

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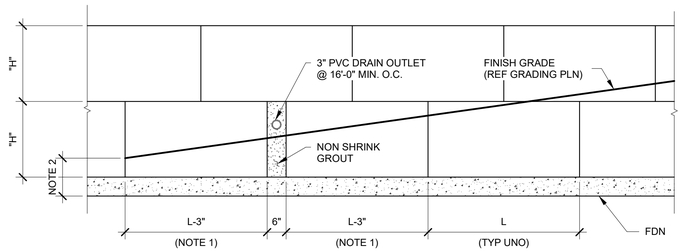
STATE OF TEXAS
ALEJANDRO M. BRISENO
135175
LICENSED PROFESSIONAL ENGINEER

PROJECT NO.:	60316.001
ISSUED:	10/17/2025
DRAWN BY:	ML
CHECKED BY:	DD
SCALE:	AS SHOWN

SHEET TITLE
RETAINING WALL DETAILS

S401

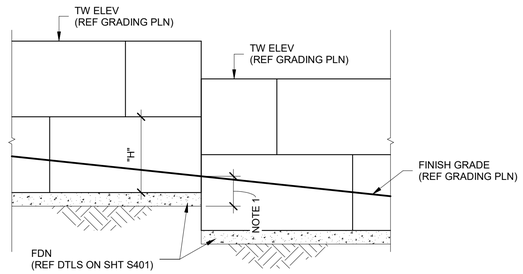
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NOTE:

1. BLOCK MANUFACTURE SHALL PROVIDE SHORT BLOCKS AS REQUIRED AT GROUTED UNDERDRAIN OUTFALL
2. REFER TO FDN SCHEDULE FOR MINIMUM EMBEDMENT

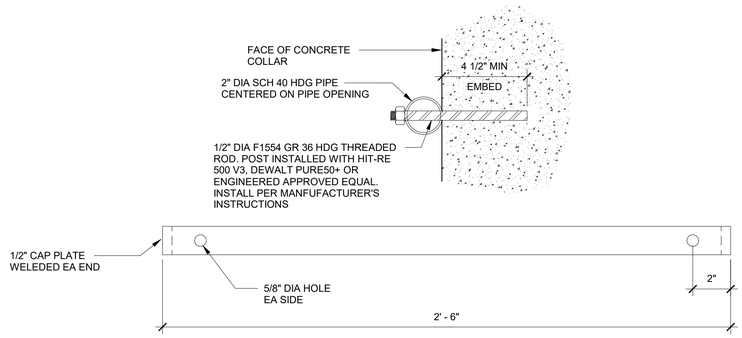
1 TYPICAL UNDERDRAIN OUTFALL DETAIL
NTS



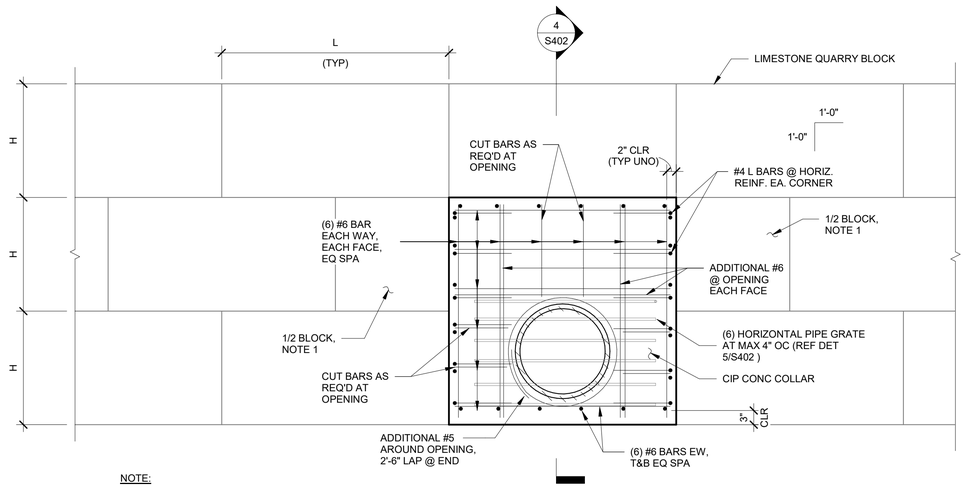
NOTE:

1. REFER TO FDN SCHEDULE FOR MINIMUM EMBEDMENT

2 TYPICAL STEP DETAIL
NTS



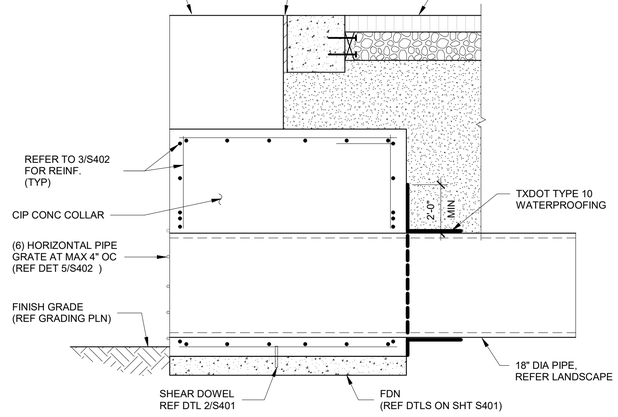
5 PIPE GATE DETAIL
3" = 1'-0"



NOTE:

1. BLOCK MANUFACTURE SHALL PROVIDE SHORT BLOCKS AS REQUIRED AROUND CAST-IN-PLACE SECTION.

3 TYPICAL DRAIN OUTFALL AT WALL DETAIL
NTS



NOTES:

1. AT CONTRACTOR'S OPTION OPENING MAY BE FORMED 6" LARGER AND PIPE MAY BE POST-INSTALLED WITH NONSHRINK GROUT.

4 DRAIN OUTFALL AT OPENING SECTION
NTS

SOUTHWEST REGIONAL PARK - FIELD & TRACK UPGRADES
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3005 CO RD 175,
LEANDER, TX

halff
13620 BRIARWICK DRV., SUITE 100
AUSTIN, TEXAS 78729
TEL: (512) 777-4600

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STATE OF TEXAS
ALEJANDRO M. BRISENO
135175
LICENSED
PROFESSIONAL ENGINEER

PROJECT NO.:	60316.001
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DRAWN BY:	ML
CHECKED BY:	DD
SCALE:	AS SHOWN

SHEET TITLE

RETAINING
WALL DETAILS

S402

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