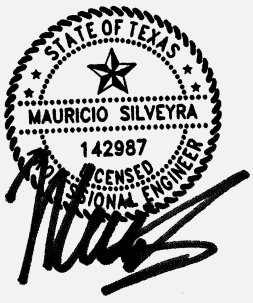
garza emc

New Williamson County Headquarters Facility

Southwestern Blvd/ S.E. Inner Loop
Georgetown, TX, Williamson County

WATER POLLUTION ABATEMENT PLAN (WPAP)



11/16/2023

Prepared by:

GARZA EMC, LLC.
7708 Rialto Blvd., Suite 125
Austin, Texas 78735
TBPE Registration No. F-14629

NOVEMBER 2023

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: New Williamson County Headquarters Facility						**2. Regulated Entity No.:**			
3. Customer Name: Williamson County						**4. Customer No.: CN600897888**			
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):**		37.6 Acres	
9. Application Fee:	6,500		**10. Permanent BMP(s):**			Batch Detention Basin, Vegetative Filter Strip			
11. SCS (Linear Ft.):	NA		**12. AST/UST (No. Tanks):**			NA			
13. County:	Williamson		**14. Watershed:**			Smith Branch – San Gabriel River			

Application Distribution

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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	___
Region (1 req.)	___	___	___
County(ies)	___	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___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 _x_Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Mauricio Silveyra, P.E.

Print Name of Customer/Authorized Agent

11/16/2023

Signature of Customer/Authorized Agent Date

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

EXHIBIT "A"

BOUNDARY DESCRIPTION

SURVEYED DESCRIPTION:

FIELD NOTES of that 37.60 acre tract situated in the William Addison Survey, Abstract Number 21, City of Georgetown, Williamson County, Texas; being a portion of that tract described as 179.2993 acres in a Warranty Deed to County Judge John Doerfler, in his official capacity, and to his successors in the office of the County Judge of the County of Williamson of the State of Texas (hereinafter referred to as "Doerfler tract"), recorded under Instrument Number 1999075478, Official Public Records, Williamson County, Texas; the subject tract being more particularly described as follows:

BEGINNING at a rebar with a 1-1/2 inch aluminum cap stamped "COG ROW" found within the interior of said Doerfler tract at a corner on the northwest line of that tract described as 5.728 acres in a Deed without Warranty to City of Georgetown, a Texas political subdivision (hereinafter referred to as "City of Georgetown 5.728 acre tract"), recorded under Instrument Number 2019065521 of said Official Public Records at the southwest corner of the herein described tract, from a rebar with a 1-1/2 inch aluminum cap stamped "COG ROW 4933" found in the northwest line of said City of Georgetown 5.728 acre tract bears SOUTH 12° 26' 10" EAST, a distance of 323.07 feet;

THENCE NORTH 12° 26' 10" WEST, continuing into the interior of said Doerfler tract with the southwest line of the herein described tract, a distance of 1292.48 feet to the northwest corner of the herein described tract;

THENCE NORTH 44° 40' 16" EAST, continuing into and through the interior of said Doerfler tract, a distance of 619.79 feet to the monumented southwest line of Southwestern Boulevard (no recording information located), same being the northeast line of said Doerfler tract at the northeast corner of the herein described tract;

THENCE SOUTH 50° 04' 52" EAST, with the common line of said Southwestern Boulevard and said Doerfler tract, 1524.65 feet to the most northerly corner of that tract described as 0.481 acres in Special Warranty Deed to the City of Georgetown (hereinafter referred to as "City of Georgetown 0.481 acre tract"), recorded under Instrument Number 2011018248 of said Official Public Records;

THENCE into said Doerfler tract the following calls:

1. SOUTH 43° 51’ 38” WEST, with the northwest line of said City of Georgetown 0.481 acre tract, a distance of 63.74 feet to a rebar with a 1-1/2 inch aluminum cap stamped “COG ROW” found;
2. SOUTH 44° 46’ 20” EAST, with the southwest line of said City of Georgetown 0.481 acre tract, a distance of 176.43 feet to a rebar with a 1-1/2 inch aluminum cap stamped “COG ROW” found at the northeast corner of said City of Georgetown 5.728 acre tract;

THENCE with the northwest line of said City of Georgetown 5.728 acre tract the following calls:

1. SOUTH 69° 24’ 49” WEST, a distance of 9.60 feet to the beginning of a curve to the left (concave southeast), having a radius of 1648.00 feet and a chord bearing SOUTH 67° 23’ 19” WEST, a distance of 116.23 feet;
2. with said curve to the left an arc length of 116.25 feet to a rebar with a 1-1/2 inch aluminum cap stamped “COG ROW 4933” found at the end of said curve;
3. SOUTH 65° 22’ 19” WEST, a distance of 405.70 feet to a rebar with a 1-1/2 inch aluminum cap stamped “COG ROW” found at the beginning of curve to the left (concave southeast), having a radius of 1648.00 feet and a chord bearing SOUTH 54° 44’ 53” WEST, a distance of 608.75 feet;
4. with said curve to the left an arc length of 612.27 feet to a 1/2-inch rebar found at the end of said curve;
5. NORTH 44° 02’ 57” WEST, a distance of 10.01 feet to a rebar with a 1-1/2 inch aluminum cap stamped “COG ROW 4933” found at the beginning of a curve to the left (concave southeast), having a radius of 1658.00 feet and a chord bearing SOUTH 42° 29’ 50” WEST, a distance of 93.67 feet;
6. with said curve to the left an arc length of 93.68 feet to the end of said curve;
7. NORTH 49° 06’ 45” WEST, a distance of 47.60 feet to a rebar with a 1-1/2 inch aluminum cap stamped “COG ROW” found;
8. SOUTH 40° 38’ 03” WEST, a distance of 56.25 feet;
9. NORTH 50° 26’ 30” WEST, a distance of 165.24 feet to a rebar with a 1-1/2 inch aluminum cap stamped “COG ROW” found;

10. SOUTH 83° 49’ 40” WEST, a distance of 155.29 feet returning to the **POINT OF BEGINNING** and enclosing 37.60 acres of land.

The bearings described hereon are Texas State Plane Grid bearings (Texas Central Zone, NAD83)

This description shall not be viewed nor relied upon for conveyance purposes.

Chris Henderson
Registered Professional
Land Surveyor № 6831
chris@jphls.com
December 18, 2023

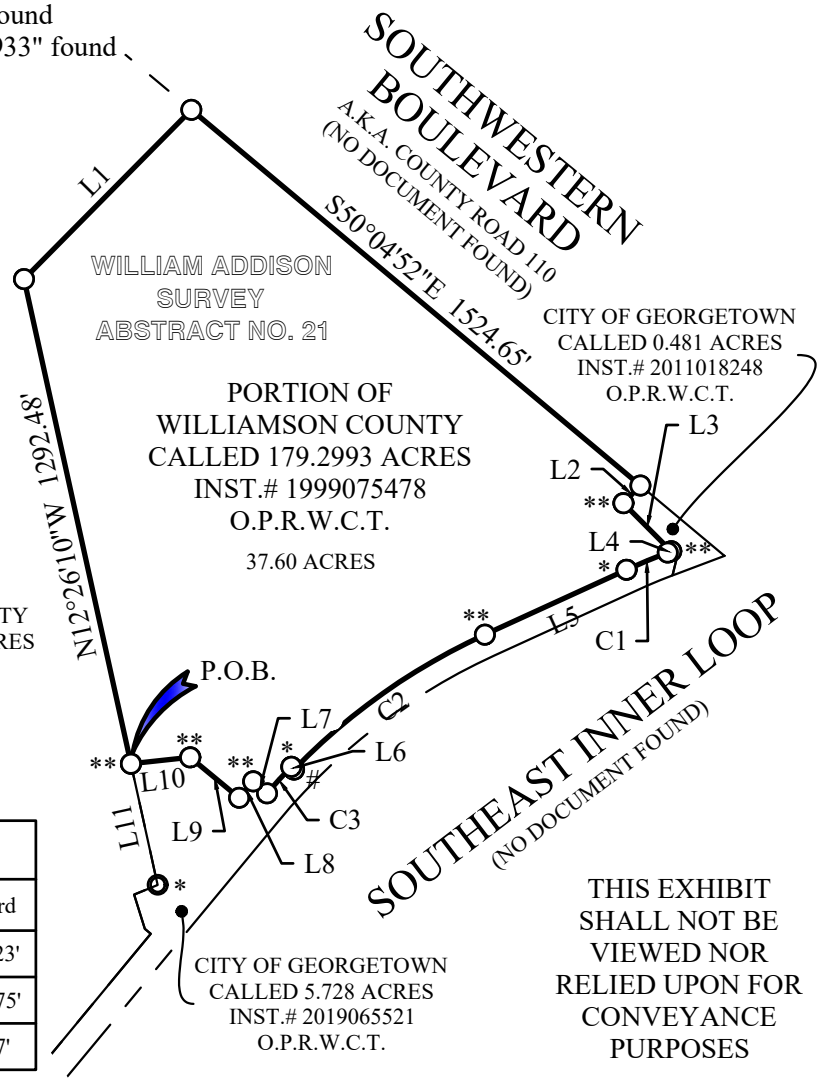
EXHIBIT "A"

MONUMENTS / BEARING BASIS

** ○ 1-1/2" aluminum cap rebar stamped "CG ROW" found
* ○ 1-1/2" aluminum cap rebar stamped "CG ROW 4933" found
# ○ 1/2" rebar
○ common corner (non a monument)
Bearings are based on Grid North,
Texas Coordinate System of 1983, Central Zone

Line Data Table		
Line #	Bearing	Distance
L1	N44°40'16"E	619.79'
L2	S43°51'38"W	63.74'
L3	S44°46'20"E	176.43'
L4	S69°24'49"W	9.60'
L5	S65°22'19"W	405.70'
L6	N44°02'57"W	10.01'
L7	N49°06'45"W	47.60'
L8	S40°38'03"W	56.25'
L9	N50°26'30"W	165.24'
L10	S83°49'40"W	155.29'
L11	S12°26'10"E	323.07'

Curve Data Table					
Curve #	Arc	Radius	Delta	Chord Bearing	Chord
C1	116.25'	1648.00'	004°02'30"	S67°23'19"W	116.23'
C2	612.27'	1648.00'	021°17'12"	S54°44'53"W	608.75'
C3	93.68'	1658.00'	003°14'15"	S42°29'50"W	93.67'



THIS EXHIBIT SHALL NOT BE VIEWED NOR RELIED UPON FOR CONVEYANCE PURPOSES

LEGEND OF ABBREVIATIONS

O.P.R.W.C.T. Official Public Records of Williamson County, Texas
POB/POC Point of Beginning/Point of Commencing

JPH LaNd Surveying, Inc.

N

0 500'

Scale: 1" = 500'

Chris Henderson
Registered Professional
Land Surveyor No. 6831
Chris@jphls.com
December 18, 2023

STATE OF TEXAS REGISTERED CHRIS HENDERSON 6831 PROFESSIONAL LAND SURVEYOR

EXHIBIT SHOWING
37.60 ACRES
SITUATED IN THE
WILLIAM ADDISON SURVEY ABSTRACT NO. 21
CITY OF GEORGETOWN
WILLIAMSON COUNTY, TEXAS

JPH Job No.
2022.071.002 CTX7398 1855 SE Inner Loop,
Georgetown, Wilco., TX - EXHIBIT.dwg

1516 E. Palm Valley Blvd., Ste. A4, Round Rock, Texas 78664
Telephone (817) 431-4971 www.jphlandsurveying.com
TBPELS Firm #10019500
DFW | Central Texas | West Texas | Houston | San Antonio

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.

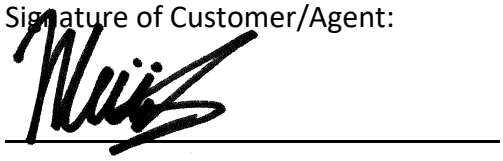
Signature

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: Mauricio Silveyra, P.E.

Date: 11/16/2023

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: New Williamson County Headquarters Facility
2. County: Williamson
3. Stream Basin: Smith Branch - 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: Dale Butler
   Entity: Williamson County
   Mailing Address: 3101 SE Inner Loop
   City, State: Georgetown, TX Zip: 78626
   Telephone: (512) 943-1599 FAX: N/A
   Email Address: dbutler@wilco.org

8. Agent/Representative (If any):

   Contact Person: Mauricio Silveyra, P.E.
   Entity: GarzaEMC
   Mailing Address: 7708 Rialto Blvd Ste 125
   City, State: Austin, TX Zip: 78735
   Telephone: 512-298-3284 FAX: N/A
   Email Address: msilveyra@garzaemc.com

9. Project Location:

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

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

    The property is located North West of the intersection at SE Interloop and Southwestern Blvd. The property is To the east of the Emergency Services building located at 950 Tracy Chambers Lane.

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

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

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

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

☐ Survey staking will be completed by this date: _____

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

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

15. Existing project site conditions are noted below:

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

Prohibited Activities

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

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

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

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

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

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

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

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

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

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

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

Administrative Information

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

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

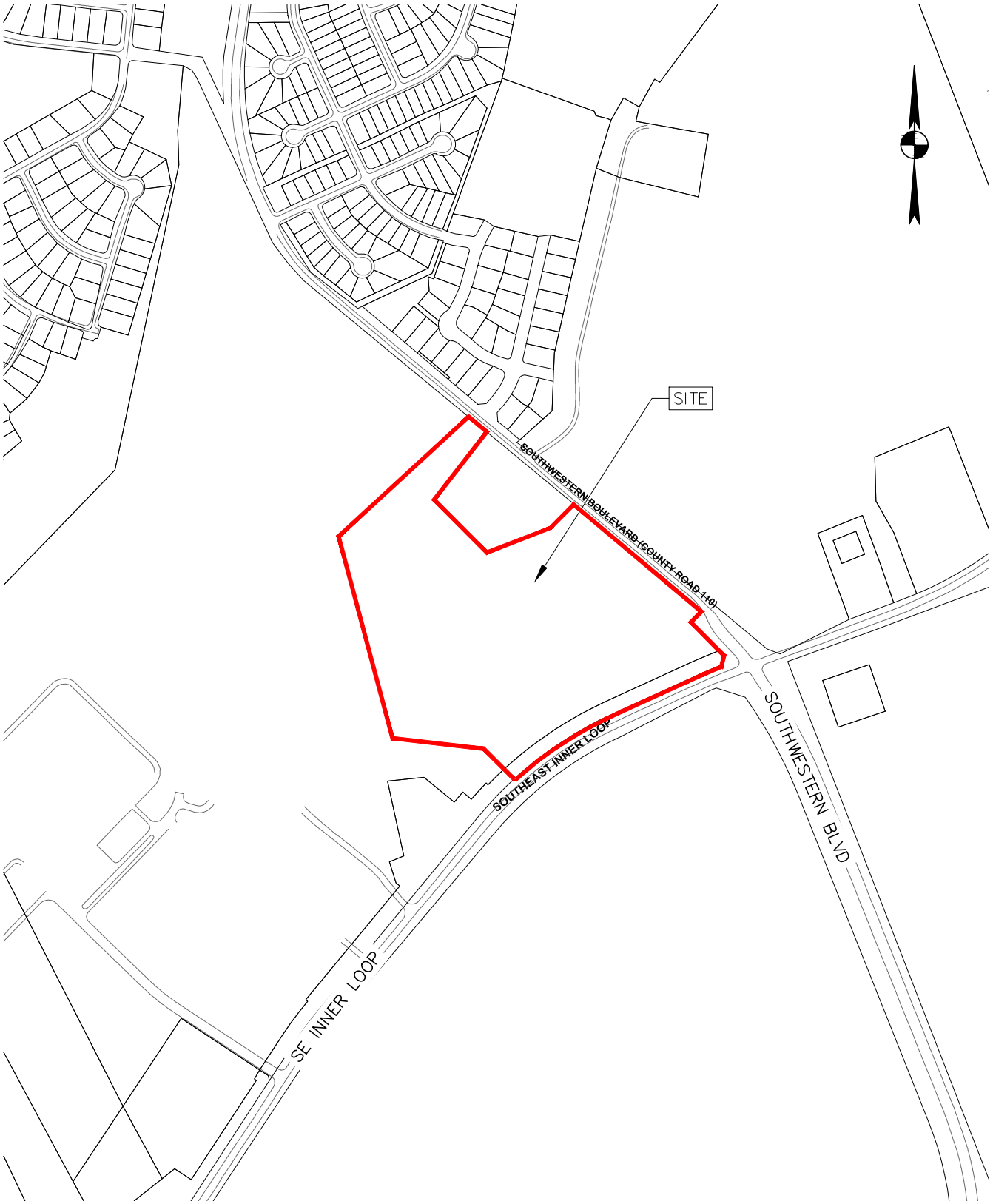
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

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

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

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

ATTACHMENT A - ROAD & SITE LOCATION MAP



garza
7708 Rialto Blvd., Suite 125
Austin, Texas 78735
Tel. (512) 298-3284 Fax (512) 298-2592
TBPE # F-14629

WILCO HQ
S.E. INNER LOOP AND SOUTHWESTERN BLVD
GEORGETOWN, TEXAS

MARMONMOK

SITE LOCATION MAP

DATE: 08/18/2023	SCALE: 1:600	DRAWN BY:	FILE:	PROJECT No. 113598-00006

V:\113598-00006\Civil\00-CAD\EXHIBITS\2023-08-16 Site Location Map\Site Location Map.dwg modified by curteaga on Nov 14, 23 2:22 PM

ATTACHMENT B: USGS QUADRANGLE MAP

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

The National Map US Topo

ROUND ROCK QUADRANGLE
TEXAS-WILLIAMSON CO.
7.5-MINUTE SERIES

SITE

RECHARGE ZONE

TRANSITION ZONE

GEORGETOWN

ROUND ROCK

BRUSHY CREEK

Rabbit Hill

Green Airport

Tri-modal Air Park

Soil Conservation Service Site 10b Reservoir

Soil Conservation Service Site 13a Reservoir

Soil Conservation Service Site 11 Reservoir

Soil Conservation Service Site 14 Reservoir

Soil Conservation Service Site 16 Reservoir

Soil Conservation Service Site 17 Reservoir

South Fork San Gabriel River · Smith Br · W Fork Smith Br · Chandler Br · Onion Br · Brushy Cr · Lake Cr · Dry Fork Cr · Walsh Lake · McNutt Cr

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (central zone)

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

Imagery.....NAIP, October 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2002
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

MN 4° 2′ 72 MILS
GN 0° 40′ 12 MILS
UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

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

1	2	3
4		5
6	7	8

1 Leander NE
2 Georgetown
3 Weir
4 Leander
5 Hutto
6 Jollyville
7 Pflugerville West
8 Pflugerville East
ADJOINING QUADRANGLES

ROUND ROCK, TX
2016

NSN 7643016398009
NGA REF NO. USGSX24K71453

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

The National Map
US Topo

GEORGETOWN QUADRANGLE
TEXAS - WILLIAMSON COUNTY
7.5-MINUTE SERIES

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

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

Imagery..NAIP, August 2016 - November 2016
Roads.......................................U.S. Census Bureau, 2015 - 2019
Names..GNIS, 2003 - 2022
Hydrography...............................National Hydrography Dataset, 2002 - 2021
Contours...National Elevation Dataset, 2004
Boundaries.............Multiple sources; see metadata file 2019 - 2021

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

MN
GN
3°42´ 66 MILS
0°40´ 12 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Florence
2 Cobbs Cavern
3 Jarrell
4 Leander NE
5 Weir
6 Leander
7 Round Rock
8 Hutto

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

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

GEORGETOWN, TX
2022

NSN. 7643016396286
NGA REF NO. USGSX24K17084

ATTACHMENT C - PROJECT DESCRIPTION

The project area consists of 37.6 acres within the Williamson County parcel located at the northwest corner of Southwestern Boulevard and Southeast Inner Loop. The 37.6 acre site is currently undeveloped and the site has not been cleared. The overall parcel receives offsite flows from two sources. A 109-acre pasture located southeast of the project area drains under SE Inner Loop and it's fully contained through a Smith Branch tributary, and a 35-acre pasture located northeast of the project area drains under Southwestern Blvd and flow is fully contained in a drainage channel. Neither of the offsite flows drain through the Limits of Construction of the Project Area.

The proposed development includes a 120,224-square foot governmental facility for Williamson County along with 481 surface parking spaces with associated circulation roads, and utilities. Water quality treatment will be provided by a Batch Detention Basin and Vegetative Filter Strips. Total impervious cover is 8.8 acres which yields a 30.51% impervious cover for the project area.

The site is located in the Full Purpose Jurisdiction of the City of Georgetown in Williamson County. Additionally, the site is located in the Edwards Aquifer Recharge and Transition Zone.

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: Richard V. Klar, P.G. Telephone: 210-699-9090

Date: November 1, 2023 Fax: 210-699-6426

Representing: Raba Kistner, Inc., TBPG Firm #50220 on behalf of MarmonMok Architecture

(Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

11/1/2023

Regulated Entity Name: Williamson County Headquarters Facility – Approximately 38 Acres

Project Information

1. Dates Geologic Assessment was performed: October 17, 2023
2. Type of Project:

☒ WPAP ☐ AST
☐ SCS ☐ UST

3. Location of Project:

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

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

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

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness
Heiden clay, 1 to 3 percent slopes (HeB)	D**	~5 to 6 feet
Heiden clay, 2 to 5 percent slopes, moderately eroded (HedC2)	D**	~6 to 7 feet
Heiden clay, 5 to 8 percent slopes, eroded (HeiD3)	D**	~6 to 7 feet
Heiden extremely stony clay, 3 to 12 percent slopes (HesE)	D**	~4-5 feet
Houston Black clay, 1 to 3 percent slopes (HoB)	D	~5 to 6 feet

** 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

***Soil Group not listed in SCS (1986) publication. Hydrologic Soil Group taken from USDA National Resources Conservation Service Web Soil Survey (2019).*

6. ☒ **Attachment B – Stratigraphic Column**. A stratigraphic column showing formations, members, and thickness 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" = 80'
Site Geologic Map Scale: 1" = 80'
Site Soils Map Scale (if more than 1 soil type): 1" = 300'

9. Method of collecting positional data:

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

10. ☒ The project site 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 seven (7) test holes present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
☒ The test holes are not in use and have been properly abandoned.
☐ The well or test hole is not in use and will be properly abandoned.
☐ The well is in use and complies with 16 TAC Chapter 76.
☐ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

☒ 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.

ATTACHMENTS

ATTACHMENT A

GEOLOGIC ASSESSMENT TABLE (TCEQ-0585-TABLE)

COMMENTS TO GEOLOGIC ASSESSMENT TABLE

SOIL PROFILE

SITE SOILS MAP

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: ***Williamson County Headquarters Facility -- Approximately 38 Acres***
Georgetown, Williamson County, Texas
*(**RKI** Project No. ASF23-094-00)*

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	
S-1	30° 37' 11.36" N	97° 39' 17.31" W	MB (SS)	30	Kdr	1,018	2	12					X	8	38	✓		✓		Hilltop
S-2	30° 37' 14.74" N	97° 39' 10.08" W	MB (GEO, B-1)	30	Kdr, Kgt	0.3	0.3	65					Z	5	35	✓		✓		Hilltop
S-3	30° 37' 14.12" N	97° 39' 9.18" W	MB (GEO, B-2)	30	Kdr, Kgt	0.3	0.3	85					Z	5	35	✓		✓		Hilltop
S-4	30° 37' 13.33" N	97° 39' 10.94" W	MB (GEO, B-3)	30	Kdr, Kgt	0.3	0.3	60					Z	5	35	✓		✓		Hilltop
S-5	30° 37' 12.86" N	97° 39' 12.64" W	MB (GEO, B-4)	30	Kdr, Kgt	0.3	0.3	60					Z	5	35	✓		✓		Hilltop
S-6	30° 37' 12.04" N	97° 39' 12.06" W	MB (GEO, B-5)	30	Kdr, Kgt	0.3	0.3	85					Z	5	35	✓		✓		Hilltop
S-7	30° 37' 13.76" N	97° 39' 10.19" W	MB (GEO, B-6)	30	Kdr, Kgt	0.3	0.3	60					Z	5	35	✓		✓		Hilltop
S-8	30° 37' 12.83" N	97° 39' 11.70" W	MB (GEO, B-7)	30	Kdr, Kgt	0.3	0.3	55					Z	5	35	✓		✓		Hilltop
S-9	30° 37' 10.52" N	97° 39' 7.92" W	CD	5	Kdr	120	80	10					O	5	10	✓		✓		Hilltop

*** DATUM:** ***NAD83***

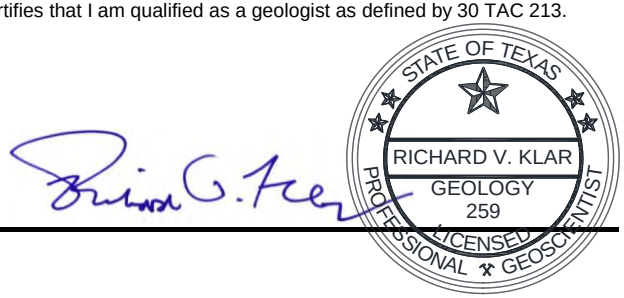
Features: SS=sanitary sewer utility; GEO = Geotechnical boring and identifier
Formation: Kdr=Del Rio Clay; Kbu=Buda Limestone; Kgt=Georgetown Formation

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	*Granular bedding materials for residential utility improvements* ***(Feature S-1).***
Z	*Soil cuttings with granular bentonite and concrete cap for geotechnical borings* ***(Features S-2 through S-8)***

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

I have read, I understood, and I have followed the Texas Natural Resource Conservation Commission'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 213.



Date: ***November 1, 2023***

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

Sheet 1 of 1

COMMENTS TO GEOLOGIC ASSESSMENT TABLE
Williamson County Headquarters Facility – Approximately 38 Acres
Northwest of SE Inner Loop and Southwestern Boulevard
Georgetown, Williamson County, Texas

The locations of the following features are indicated on the ***Site Geologic Map*** provided as ***Attachment D*** of this report.

Manmade Features in Bedrock (MB)

Feature S-1 (Sanitary Sewer utility):

Feature S-1 consists of a trench for an existing sanitary sewer utility owned by the City of Georgetown. The trench extends along the west edge of the Project Site just east of the Smith Branch Tributary. The location of this trench is based on plans provided by MarmonMok Architecture on October 9, 2023, as well as field observations of manways. Based on the provided plans and typical conditions, the sanitary sewer utility trenches are installed in surface soils to depths of approximately 12 feet terminating in bedrock. The estimated length of the trench is approximately 1,018 feet within the Project Site.

Features S-2 through S-8 (Geotechnical borings):

Features S-2 through S-8 consist of plugged geotechnical borings installed by **RKI** (*Project No. AAA22-149-00, draft report October 5, 2023*) to support proposed land development activity. A total of twelve borings were drilled within the Project Site using straight-flight auger and air rotary drilling methods. Of these, seven borings were drilled to depths of approximately 55 to 85 feet below the existing ground surface intersecting bedrock. According to boring log data, the following strata were encountered: dark brown clay at depths of 5 to 6 feet; tan gravelly clay at depths of 8 to 15 feet; tan and gray clay with gypsum deposits, calcareous deposits, and ferrous staining at depths of approximately 30 feet; dark gray clayshale of the Del Rio Clay at depths of 48 to 56 feet; and hard gray, highly weathered, highly fractured limestone with clay seams of the Georgetown Formation below depths of 56 feet to boring termination depths. Groundwater was encountered in borings B-1 and B-2 during drilling operations at depths of 18 and 42 feet, respectively. It should be noted that drilling operations were conducted before and after an intermittent rainfall event and that the occurrence of shallow groundwater

is locally transient, associated with rainfall and surface water run-off events. Based on the referenced geotechnical report and observations in conjunction with field reconnaissance activities, the borings were effectively plugged and abandoned following completion of drilling activities using soil cuttings with granular bentonite.

Non-Karst Closed Depression (NKCD)

Feature S-9 (Stock Pond):

Feature S-9 is a non-karst closed depression that consists of a stock pond on the south portion of the Project Site. The location is based on plans provided by MarmonMok Architecture on October 9, 2023, as well as desktop review (i.e., topographic maps and aerial photographs) and field observations. This feature appears to be manmade with earthen berms around its perimeter. The pond was observed to be dry, with cracked clay soil at the bottom. It is approximately oval-shaped and measures approximately 120 feet long, 80 feet wide, and 10 feet deep, with its long axis oriented approximately northwest.

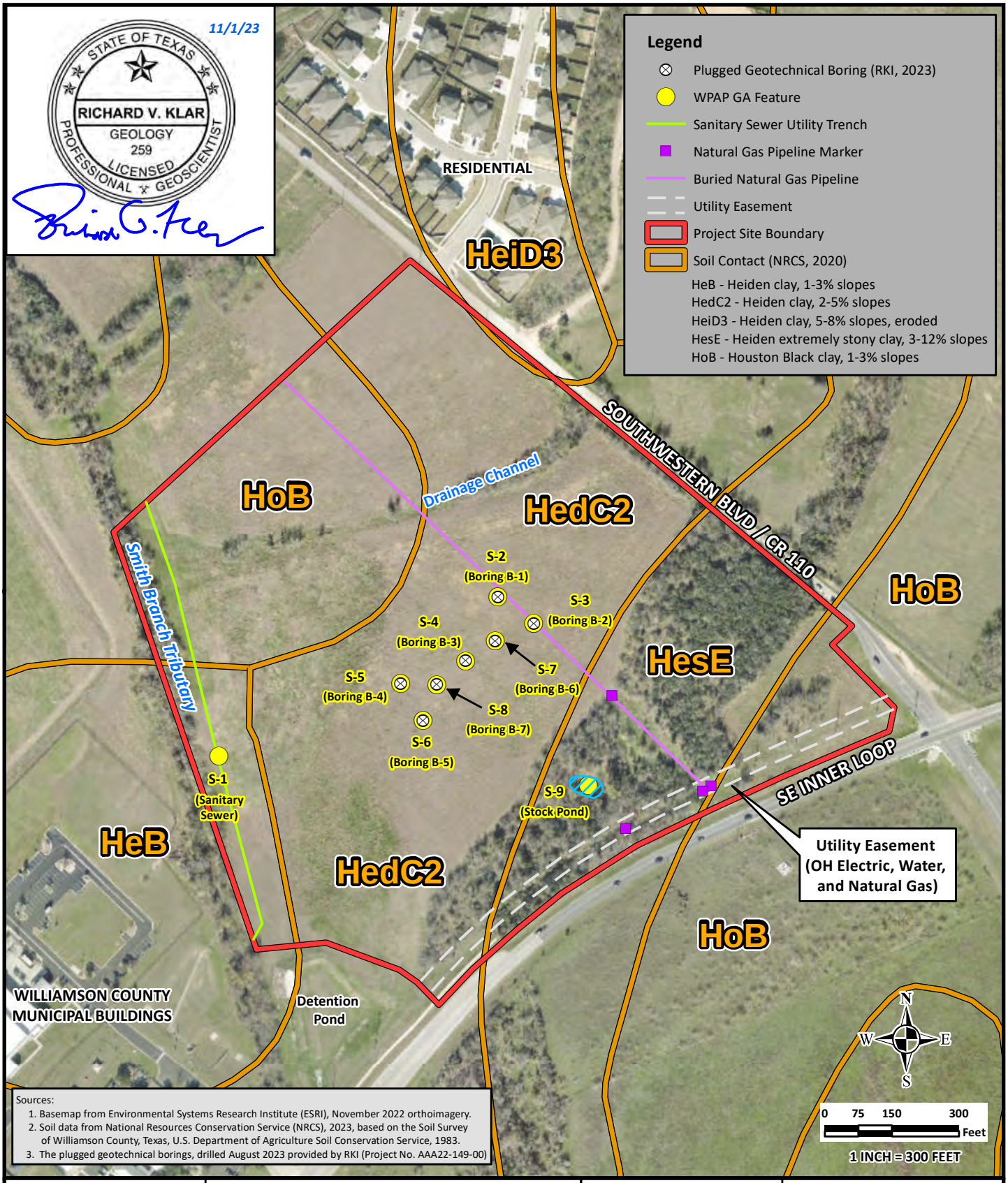
SOIL PROFILE
Williamson County Headquarters Facility – Approximately 38 Acres
Northwest of SE Inner Loop and Southwestern Boulevard
Georgetown, Williamson County, Texas

SOIL SERIES	PUBLISHED THICKNESS ON SITE	SOIL TYPE DESCRIPTION
Heiden	~5 to 6 feet	***Heiden clay, 1 to 3 percent slopes (HeB):*** This gently sloping soil is in valleys and on ridges on uplands. Typically, the upper layer is dark grayish brown clay about 30 inches thick, with grayish brown clay streaked with dark grayish brown beneath. The underlying layer is light yellowish-brown clay that has a few soft masses of calcium carbonate. Well drained with very low permeability. When the soil is dry and cracked, water enters it rapidly, but when the soil is wet, water enters it very slowly. Erosion is a moderate hazard.
Heiden	~6 to 7 feet	***Heiden clay, 2 to 5 percent slopes, moderately eroded (HedC2):*** This gently undulating soil is on uplands. Typically, the upper layer is dark grayish brown clay about 16 inches thick, with olive clay down to a depth of 42 inches, underlain by mottled pale olive clay. Well drained with very low permeability and rapid runoff. When the soil is dry, deep cracks form; when wet, the soil swells and the cracks close. Erosion is a severe hazard. Water erosion, mainly from rains of high intensity, has created gullies approximately 1 to 4 feet deep, thinning the surface layer of the soil near the gullies.
Heiden	~6 to 7 feet	***Heiden clay, 5 to 8 percent slopes, eroded (HeiD3):*** This undulating soil is mainly in long and narrow areas on uplands. Typically, the upper layer is dark grayish brown layer about 22 inches thick, with grayish brown clay to about 44 inches, underlain by pale olive shaly clay. Well drained with very low permeability and rapid runoff. When the soil is dry, deep cracks form; when the soil is wet, it swells and the cracks close. Erosion is a severe hazard. Water erosion, mainly from rains of high intensity, has created gullies approximately 2 to 6 feet deep, thinning the surface layer of the soil near the gullies.
Heiden	~4-5 feet	***Heiden extremely stony clay, 3 to 12 percent slopes (HesE):*** This is a gently sloping to strongly sloping soil on uplands. Typically, the surface layer is very dark grayish brown extremely stony clay about 18 inches thick. About 10 to 20 percent of the surface is covered with fragments of gray limestone, with most fragments on the upper slopes. Below the surface layer to a depth of 40 inches is light olive brown clay with streaks of the overlying darker material in old cracks. The underlying layer is a mixture of olive yellow and gray clay or shaly clay containing soft lumps of calcium carbonate. Well drained with very low permeability. When dry, the soil is deeply and widely cracked, and water enters it rapidly. When the soil is wet, water enters it very slowly and most of the water runs off rapidly.

SOIL SERIES	PUBLISHED THICKNESS ON SITE	SOIL TYPE DESCRIPTION
Houston Black	~5 to 6 feet	***Houston Black clay, 1 to 3 percent slopes (HoB):*** This gently sloping soil is on smooth uplands. Typically, the upper layer is dark gray clay about 32 inches thick. The layer below that is dark grayish brown clay to about 54 inches. The underlying layer is mottled, grayish brown clay. The soils is calcareous and moderately alkaline throughout. Moderately well drained with very slow permeability and medium runoff potential. When the soil is dry and cracked, water enters it rapidly. When the soils is wet and the cracks are closed, infiltration is very slow. Erosion is a moderate hazard.

The preceding table was prepared based on information provided in the *Soils Survey of Williamson County, Texas (January 1983)* and the *NRCS Web Soil Survey (2023)* in addition to field observations and review of geotechnical boring logs (**RKI**, 2023). As presented on the attached ***Site Soils Map***, native soils mapped at the Project Site consist of the following units: Heiden clay, 1 to 3 percent slopes (HeB); Heiden clay, 2 to 5 percent slopes, moderately eroded (HedC2); Heiden clay, 5 to 8 percent slopes, eroded (HeiD3); Heiden extremely stony clay, 3 to 12 percent slopes (HesE); and Houston Black clay, 1 to 3 percent slopes (HoB).

The Project Site is underlain primarily by HedC2 soils, with HoB soils on the northwest portion, HeB soils on the west edge, and HesE and HoB soils on the southeast corner. Soils mapped for the Project Site are collectively classified as Group D soils, which have a low capacity to transmit infiltrating precipitation. Soil types reportedly consist of clay with published permeability values ranging from 0.00 to 0.06 inch per hour. HedC2, HoB, and HeB soil types consist of predominantly clay soils overlying rock units of the Del Rio Clay. The HesE soils at the southeast corner of the Project Site consist of stony clay associated with the underlying Buda Limestone.



Sources:
1. Basemap from Environmental Systems Research Institute (ESRI), November 2022 orthoimagery.
2. Soil data from National Resources Conservation Service (NRCS), 2023, based on the Soil Survey of Williamson County, Texas, U.S. Department of Agriculture Soil Conservation Service, 1983.
3. The plugged geotechnical borings, drilled August 2023 provided by RKI (Project No. AAA22-149-00)

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SITE SOILS MAP

WILLIAMSON COUNTY HEADQUARTERS FACILITY
APPROXIMATELY 38 ACRES
NORTHWEST OF SE INNER LOOP
AND SOUTHWESTERN BOULEVARD
GEORGETOWN, WILLIAMSON COUNTY, TEXAS

REVISIONS:

No.	DATE	DESCRIPTION

PROJECT No.:	ASF23-094-00
ISSUE DATE:	11/01/2023
DRAWN BY:	HEH
REVIEWED BY:	HEH/RVK

NOTE: This Drawing is Provided for Illustration Only, May Not be to Scale and is Not Suitable for Design or Construction Purposes

ATTACHMENT B

STRATIGRAPHIC COLUMN

STRATIGRAPHIC COLUMN
Williamson County Headquarters Facility – Approximately 38 Acres
Northwest of SE Inner Loop and Southwestern Boulevard
Georgetown, Williamson County, Texas

STRATIGRAPHIC FORMATION	THICKNESS	DESCRIPTION
Eagle Ford (Kef)	15-30 feet	Mostly shale to mudstone, siltstone, and flaggy limestone. The lower part is siltstone, some very fine-grained sandstone, and flaggy limestone. The upper part is dark gray shale to mudstone and flaggy limestone. Weathers easily and forms flat to gently rolling topography. Outcrops are rare. ***Not exposed. Mapped beneath the southeast corner of the Project Site.***
Buda Limestone (Kbu)	40-65 feet	Marine-shelf limestones. Limestone in the upper part is generally hard and dense and may exhibit conchoidal fracturing and a porcelaneous texture when broken. The lower part is softer and chalky. Contains glauconite and fossils, and some beds contain abundant broken fossil fragments. Forms resistant caps on hills. The contact between the erosionally resistant Buda Limestone and the easily erodible Del Rio Clay is typically identified by a distinct break in slump. Blocks of Buda Limestone commonly slump downhill. ***Small outcrops and float rock observed on the southwest portion of the Project Site.***
Del Rio Clay (Kdr)	15-50 feet	Calcareous, fossiliferous claystone to mudstone that commonly contains pyrite and gypsum. May contain minor, thin, lenticular beds of highly calcareous siltstone. Abundant fossils of *Ilymatogyra arietina*. Typically poorly exposed in slopes below the erosionally resistant Buda Formation. The Del Rio Clay serves as the confining layer overlying the Edwards Aquifer. ***Not exposed. Mapped beneath the majority of the Project Site. Present below depths of 36 to 43 feet in geotechnical borings.***
Georgetown Formation (Kgt)	< 30 feet	Consists of open, marine-shelf limestone and some marl. Commonly argillaceous, exhibits nodular bedding. Fossils include the mollusk *Waconella wacoensis* and *Gryphaea washitaensis*. Typically covered by vegetation and soil. ***Not exposed on the Project Site. Present below depths of 48 to 56 feet in geotechnical borings.***

Note: Stratigraphic Column for the Project Site was adapted from Collins (2000).

ATTACHMENT C

NARRATIVE OF SITE SPECIFIC GEOLOGY

SITE GEOLOGY NARRATIVE
Williamson County Headquarters Facility – Approximately 38 Acres
Northwest of SE Inner Loop and Southwestern Boulevard
Georgetown, Williamson County, Texas

Introduction

The following is a site-specific discussion of existing geological conditions and potential recharge features for the Edwards Aquifer identified within the proposed Williamson County Headquarters property. This assessment was performed by **Raba Kistner, Inc. (RKI)** on behalf of MarmonMok Architecture, pursuant to applicable Edwards Aquifer Protection Program (EAPP) Rules as specified in *Title 30 of the Texas Administrative Code, Section 213 (30 TAC §213, effective April 24, 2008).* This assessment report is in the format required by the Texas Commission on Environmental Quality (TCEQ) for the Geologic Assessment and was prepared in accordance with the revised *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585)*, which are applicable to submittals received by the TCEQ after October 1, 2004.

This geologic assessment report documents conditions observed by **RKI** within the Project Site boundaries on October 17, 2023.

Site Description

Site Location. The subject property consists of an approximately 38-acre tract of vacant land located northwest of the intersection of Southwestern Boulevard and Southeast Inner Loop in Georgetown, Williamson County, Texas (hereinafter referred to as the Project Site). The majority of the property is undeveloped, grass-covered land with trees covering the majority of the southeast corner. An ephemeral drainage feature crosses the north portion of the Project Site oriented approximately west-east, and a tributary of Smith Branch extends along the west edge of the Project Site, oriented approximately north-south. **RKI** understands that the property will be developed into the new Williamson County Headquarters, which will include a three-story building, driveways, parking lots, and a detention pond. The Project Site is bounded to the south by Southeast Inner Loop and to the east by Southwestern Boulevard/County Road 110. Adjacent properties include residential properties to the northeast, Williamson County municipal properties to the west, and vacant land to the north, east, and south.

Based on review of official maps published by the Texas Commission on Environmental Quality (TCEQ), the majority of the Project Site is located within the Edwards Aquifer Recharge Zone (EARZ), with the southeast corner located within the Edwards Aquifer Transition Zone (EATZ). As such, the performance of a geologic assessment is required to facilitate planned WPAP construction activities in accordance with applicable provisions set forth in the EAPP rules as specified in *Title 30 of the Texas Administrative Code, Section 213 (30 TAC 213, effective April 24, 2008).*


Left photo: General view of the Project Site taken from the southwest corner (view to the northeast). Right photo: General view of the Project Site taken from the east edge (view to the southwest).

Topography and Drainage. Topographic contours from the U.S. Geological Survey (USGS, 2022) 7.5-Minute Series Topographic maps (*Round Rock, TX and Georgetown, TX Quadrangles*) were reviewed to evaluate the general surface conditions and drainage patterns. The Project Site consists of gently sloping hilltop topography, with a maximum elevation of approximately 795 feet relative to mean sea level (MSL) at the southeast corner and a minimum elevation of approximately 730 feet at the northwest corner. As indicated by topographic contours presented on the ***Site Geologic Map***, the local surface drainage patterns for the majority of the Project Site are generally from southeast to northwest toward Smith Branch Tributary. Smith Branch Tributary flows toward Smith Branch along the west portion of the Project Site, with ultimate flow to the San Gabriel River located approximately two miles to the north. An ephemeral drainage feature exists on the north portion of the Project Site, flowing west into the Smith Branch Tributary. Additionally, an oval-shaped (dry) stock pond is located on the south wooded portion of the Project Site.


Left photo: View of the stock pond in the wooded south portion of the Project Site, which was dry at the time of field reconnaissance and had large cracks in the soil (view to the southeast). Right photo: General view of the Project Site and trees along the drainage crossing the north portion (view to the west).

Left photo: Muddy creek bed of the Smith Branch Tributary on the northeast portion of the Project Site (view to the north). Right photo: Standing water in the Smith Branch Tributary on the west edge of the Project Site (view to the south).

A review of the Flood Insurance Rate Map FIRM 48491C0485F, produced by the Federal Emergency Management Agency (December 20, 2019) indicates that the majority of the Project Site is within Zone X, an area of minimal flood hazard. The flood zone associated with Smith Branch Tributary along the west edge is designated as Zone A, a Special Flood Hazard Area without Base Flood Elevation within the 100-year floodplain.

Historical Property Use. Although research pertaining to past operations and historical land use activities within the Project Site was beyond the scope of this assessment, historical aerial imagery was reviewed to evaluate historical land use and the presence of lineations that could indicate the presence of faulting. The following aerial photographs were reviewed using Google Earth™: 1995, 1997, 2002-2006, 2008-2009, 2011-2023. These photographs depict the Project Site generally as it is today. The existing Williamson County municipal buildings west of the property were constructed between 2008 and 2013. The detention pond north of Southeast Inner Loop adjacent to the southwest portion of the Project Site was built in 2019. The residential properties to the northeast along Southwestern Boulevard were constructed between 2019 and 2021.

Classification of Recharge Features. As further described herein, there were no recharge features attributed to karstification of limestone terrain and/or surface erosional processes identified within site boundaries. Features identified and discussed below also include eight manmade features (i.e., sanitary sewer and geotechnical borings) and one non-karst closed depression. The significance of these features was assessed using definitions and guidance provided in *Instructions to Geologists (TCEQ-0585-Instructions, revised October 1, 2004)*. All features within the Project Site that met the criteria presented in this reference were mapped. The characteristics of all mapped features and the assessments of these features, as defined by the TCEQ, are presented in the attached ***Geologic Assessment Table (TCEQ-0585)***.

Stratigraphy

As presented in the attached ***Stratigraphic Column***, information pertaining to the lithologies and thickness of geologic units underlying the Project Site was taken from Collins (2000). As presented on the ***Site Geologic Map***, the SITE is directly underlain by the Eagle Ford Formation, Buda Limestone, Del Rio Clay, and Georgetown Formation, which is confirmed by geotechnical boring logs (**RKI**, 2023). Detailed descriptions of these geologic formations are provided below:

- The Eagle Ford Formation (Kef) consists of shale to mudstone, siltstone, and flaggy limestone. The lower part is siltstone, some very fine-grained sandstone, and flaggy limestone. The upper part is dark gray shale to mudstone and flaggy limestone.

- The Buda Limestone (Kbu) consists of hard dense limestone in the upper part and softer chalky limestone in the lower part. Contains glauconite and fossils, and some beds contain abundant broken fossil fragments.

- The Del Rio Clay (Kdr) consists of Calcareous, fossiliferous claystone to mudstone that commonly contains pyrite and gypsum. May contain minor, thin, lenticular beds of highly calcareous siltstone. Abundant fossils of *Ilymatogyra arietina*.

- The Georgetown Formation (Kgt) consists of open, marine-shelf limestone and some marl. Commonly argillaceous, exhibits nodular bedding. Fossils include the mollusk *Waconella wacoensis* and *Gryphaea washitaensis*.

Left photo: Flat grassy area where the Eagle Ford is mapped at the southeast corner of the Project Site (view to the southwest). Right photo: View of the approximate contact and slope change between the Del Rio Clay and the Buda Limestone on the south portion of the Project Site (view to the southwest).


Left photo: Gastropod and bivalve fossils in an outcrop of the Buda Limestone on the south portion of the Project Site just north of SE Inner Loop (view to the south). Right photo: Patchy Buda Limestone outcrops on the southeast portion of the Project Site (view to the south).

The majority of the Project Site was generally flat to very gently sloping with no outcrops observed and was covered by native soils and grasses. The southeast portion of the Project Site consists of wooded land with outcrops and large boulders of float rock of the Buda Limestone. These consisted of patchy outcrops, small outcrops consisting of beds of limestone exposed on the hillside and float rock. The Buda Limestone was generally weathered gray, and some outcrops were observed to contain fossils and widely scattered vugs.

Field observations of the Project Site conditions are generally consistent with the mapped geology by Collins (2000). However, the Eagle Ford and Del Clay formations were not directly observable as mapped owing to the presence of soil cover and alluvial deposits.


Left photo: Small weathered outcrop of the Buda Limestone on the southeast portion of the Project Site with large vugs. Right photo: One of four roughly circular depressions (animal burrows) identified on the Project Site.

Structure

This Project Site is located within the Balcones Fault Zone and, as such, is expected to exhibit a similar structural trend. The Balcones Fault Zone generally consists of a northeast-southwest trending, *en echelon* normal fault system, which juxtaposes Upper Cretaceous lithologies in the southeast with Lower Cretaceous lithologies in the northwest. As a result of this large-scale regional faulting, minor internal fault sequences and fractures exist within this zone which generally follow the same structural trend and accommodate localized displacement.

Based on review of historical aerial photographs, published maps, and in conjunction with field mapping efforts, no indications of lineations that could be associated with normal faulting were identified within the boundaries of the Project Site. Based on review of historical aerial photographs, published maps, and in conjunction with field mapping efforts, no indications of pervasive lineations that could be associated with normal faulting were identified within the boundaries of or adjacent to the Project Site. The closest mapped fault is approximately 0.95 mile to the east, juxtaposing the Eagle Ford Formation to the northwest and The Austin Chalk to the southeast. The next closest mapped fault is approximately 1.4 miles to the west, juxtaposing the Edwards Limestone to the northwest with the Georgetown Formation to the southeast.

Non-Karst Closed Depression

A non-karst closed depression consisting of a stock pond was identified on the south portion of the Project Site. This feature appears to be manmade with earthen berms around its perimeter. The pond was observed to be dry, with cracked clay soil at the bottom. It is approximately oval-shaped and measures approximately 120 feet long, 80 feet wide, and 10 feet deep, with its long axis oriented approximately northwest. This feature is classified as not sensitive due to its location in the upper part of the Del Rio Clay formation, which serves as the confining unit for the Edwards Aquifer.

Additionally, a total of four potential non-karst closed depressions were examined, which consisted of roughly circular depressions containing animal burrows in shallow soils and measuring approximately 12 to 18 inches in diameter and 8 to 10 inches deep. Most of these were located in the wooded area on the southeast portion of the Project Site, with one on the northwest corner adjacent to the Smith Branch Tributary.

Manmade Features

As presented on the ***Site Geologic Map***, nine features were identified that may potentially serve to enhance the transmission of surface runoff to the subsurface. The features consist of an existing sanitary sewer utility, plugged geotechnical borings, and non-karst closed depression. All of these features meet the criteria for assessment as manmade features in bedrock. Information regarding the locations of the existing manmade features was taken from field observations and **RKI's** Geotechnical Engineering Report (August 2023). The following features were identified:

Feature S-1 consists of a trench for a sanitary sewer utility owned by the City of Georgetown that extends along the west edge of the Project Site. Although not directly observable, it is inferred that the

trench for this subgrade installation is backfilled in accordance with standard construction practices that include the use of structural fill soils (e.g., base course materials, limestone gravel, compacted clay soils, etc.) overlain by native or fill soils, depending upon location and surface improvements. The trench was not observed in conjunction with any naturally-occurring recharge features. Although the backfilled trench may exhibit somewhat greater relative infiltration rate than the surrounding soil/rock strata underlying the project boundary, this manmade feature is classified as not sensitive, having a low potential of preferentially transmitting fluids into the Edwards Aquifer. This classification is based upon the point assignment criteria presented in the ***Geologic Assessment Table (TCEQ-0585)*** and professional judgment.

Features S-2 through S-8 consist of plugged geotechnical borings installed by **RKI** in August 2023. These were reportedly installed to maximum total depths of approximately 55 to 85 feet. According to boring log data, the following strata were encountered: dark brown clay stratum at depths of 5 to 6 feet; tan gravelly clay at 8 to 15 feet; tan and gray clay with gypsum deposits, calcareous deposits, and ferrous staining at approximately 30 feet; dark gray clayshale of the Del Rio Clay at 48 to 56 feet; and hard, gray, highly weathered, highly fractured limestone with clay seams of the Georgetown Formation to the bottom depth of borings. Groundwater was encountered in two borings at depths of 18 and 42 feet. These features are collectively classified as not sensitive as they have been plugged and no longer exist.

Potential for Fluid Migration to the Edwards Aquifer

Based on a review of the Project Site geology, topography and drainage conditions, and the results of our mapping efforts, the overall potential for rapid fluid movement (i.e., surface-derived flow) to the Edwards Aquifer via infiltration is considered to be low. The following assessment findings support this conclusion:

- The Project Site is primarily underlain by surface soils ranging in thickness from 4 to 7 feet. The Heiden and Houston Black clays are classified as Hydrologic Soil Group D and have very low infiltration rates with high runoff potential when thoroughly wet, and a slow rate of water transmission.

- No features were identified that can be attributed to karstification of limestone terrain. There were no natural karst features observed in the vicinity of any the observed manmade features, which would increase the potential for rapid infiltration. Manmade features present within the Project Site ***(Features S-1 through S-8)*** are collectively classified as not sensitive based on consideration of construction details and application of point assignment criteria and professional judgment.

- The Project Site is mapped within the Del Rio Clay and Buda Limestone formations, which comprise the upper confining unit of the Edwards Aquifer. A dry stock pond ***(Feature S-9)*** was observed in the area underlain by the Del Rio Clay. According to geotechnical boring logs, bedrock associated with the Del Rio Clay was encountered approximately 30 feet below ground surface, with the Georgetown Formation at depths below 45 to 48 feet.

The Georgetown Formation (the uppermost part of the Edwards Aquifer) was found to be more than 45 feet below ground surface based on drilling data. As such, it is unlikely that future phases of land development (i.e., earthwork, excavation) apart from pier drilling below proposed structures will reach depths associated with formations comprising the Edwards Aquifer (i.e., the Georgetown Formation and underlying Edwards Limestones). If karst features are discovered in conjunction with future phases of land development, it is recommended that a qualified geoscientist be consulted to assess, determine the level of sensitivity, and provide recommendations for protective measures, if warranted.

References

Collins, Edward W., 2000, Geologic Map of the New Braunfels, Texas, 30 X 60 Minute Quadrangle: Geologic Framework of an Urban-Growth Corridor along the Edwards Aquifer, South-Central Texas: Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas.

Federal Emergency Management Agency (FEMA), 2019, National Flood Insurance Program, Flood Insurance Rate Map, Williamson County Unincorporated Areas, Texas, Map 48491C0485F.

Google Earth™, Aerial photographs: January 1995, February 1995, December 1997, December 2002, November 2003, January 2004, October 2005, April 2006, February 2008, July 2008, February 2009, November 2009, March 2011, August 2012, October 2013, November 2013, October 2014, February 2015, July 2015, February 2016, January 2017, January 2018, November 2019, March 2020, March 2021, May 2021, January 2022, July 2022, June 2023.

Natural Resources Conservation Service (NRCS), 2023, Web Soil Survey (WSS), United States Department of Agriculture (USDA) / National Cooperative Soil Survey.

Raba Kistner, Inc., 2023, Geotechnical Engineering Study for Williamson County Headquarters, Southwestern Boulevard at Southeast Inner Loop, Georgetown, Texas. Project No. AAA22-149-00, Prepared for MarmonMok Architecture, draft report dated October 5, 2023.

TCEQ Edwards Aquifer Protection Program, 1998, Edwards Aquifer Recharge Zone Map, New Braunfels West Quadrangle; TNRCC, September 1998.

United States Geological Survey (USGS), 2022, Round Rock and Georgetown Quadrangles; USGS, Denver, Colorado.

United States Department of Agriculture (USDA), 1983, Soil Survey of Williamson County, Texas; USDA / Soil Conservation Service / Texas Agricultural Experiment Station.

United States Department of Agriculture (USDA), 1986, Urban Hydrology for Small Watersheds; USDA / Natural Resource Conservation Service, Technical Release (TR-) 55, June 1986.

ATTACHMENT D

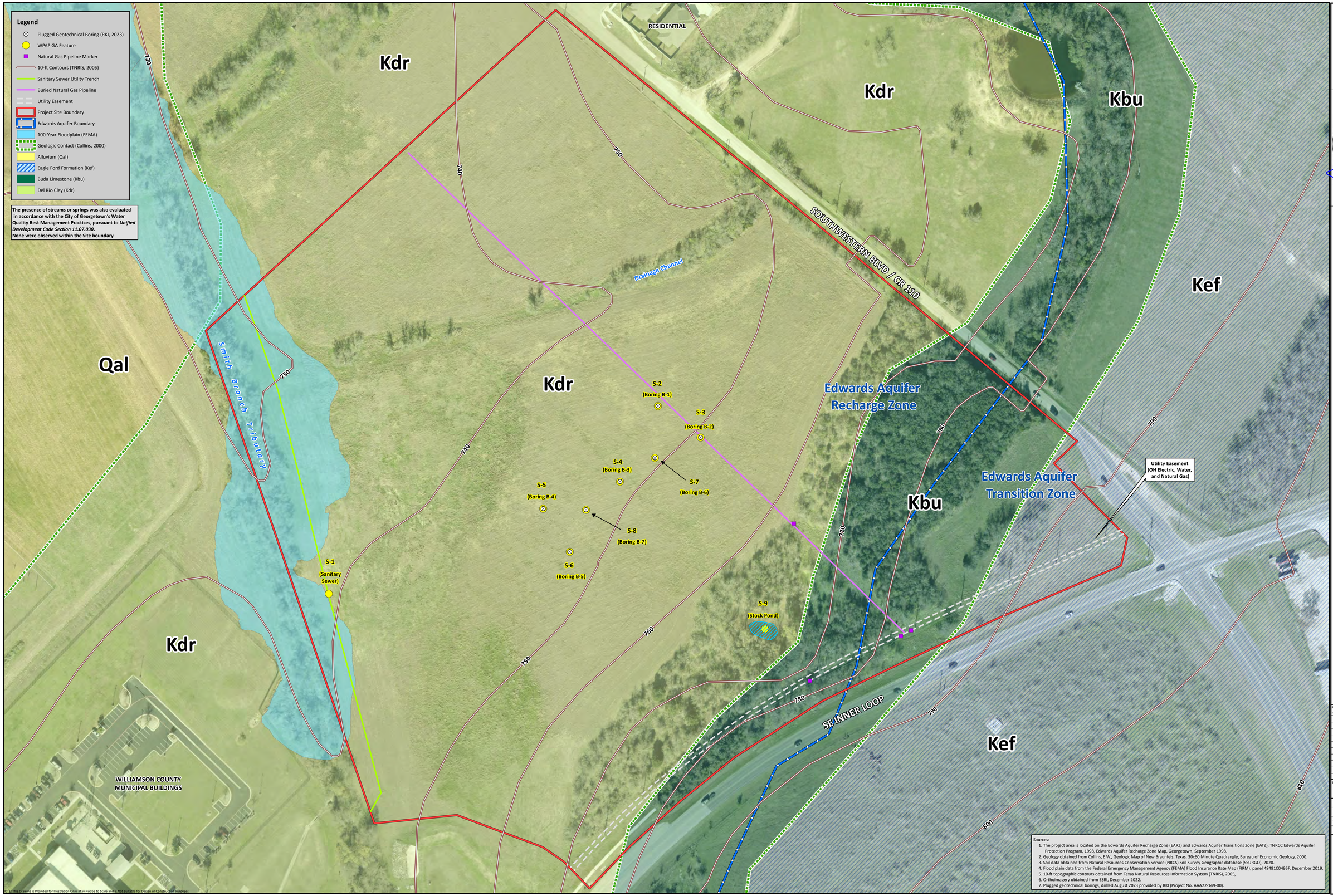
FEATURE POSITION TABLE (GPS COORDINATES)

SITE GEOLOGIC MAP

FEATURE POSITION TABLE

Williamson County Headquarters Facility -- Approximately 38 Acres
Northwest of SE Inner Loop and Southwestern Boulevard
Georgetown, Williamson County, Texas
RKI Project No. ASF23-094-00

Feature Designation	Feature Type	Date Collected	North Latitude	West Longitude	UTM Northing (meters)	UTM Easting (meters)
S-1	Sanitary Sewer utility	10/17/2023	30° 37' 11.36"	97° 39' 17.31"	3388242	628934
S-2	Geotechnical Boring B-1	8/18/2023	30° 37' 14.74"	97° 39' 10.08"	3388347	629124
S-3	Geotechnical Boring B-2	8/21/2023	30° 37' 14.12"	97° 39' 9.18"	3388329	629148
S-4	Geotechnical Boring B-3	8/23/2023	30° 37' 13.33"	97° 39' 10.94"	3388304	629101
S-5	Geotechnical Boring B-4	8/25/2023	30° 37' 12.86"	97° 39' 12.64"	3388289	629056
S-6	Geotechnical Boring B-5	8/24/2023	30° 37' 12.04"	97° 39' 12.06"	3388263	629072
S-7	Geotechnical Boring B-6	8/22/2023	30° 37' 13.76"	97° 39' 10.19"	3388317	629121
S-8	Geotechnical Boring B-7	8/23/2023	30° 37' 12.83"	97° 39' 11.70"	3388288	629081
S-9	Non-karst closed depression (stock pond)	10/17/2023	30° 37' 10.52"	97° 39' 7.92"	3388218	629183



NOTE: This Drawing is Provided for Illustration Only, May Not be to Scale and is Not Suitable for Design or Construction Purposes

Sources:
1. The project area is located on the Edwards Aquifer Recharge Zone (EARZ) and Edwards Aquifer Transitions Zone (EATZ), TNRCC Edwards Aquifer Protection Program, 1998, Edwards Aquifer Recharge Zone Map, Georgetown, September 1998.
2. Geology obtained from Collins, E.W., Geologic Map of New Braunfels, Texas, 30x60 Minute Quadrangle, Bureau of Economic Geology, 2000.
3. Soil data obtained from Natural Resources Conservation Service (NRCS) Soil Survey Geographic database (SSURGO), 2020.
4. Flood plain data from the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), panel 48491C0495F, December 2019.
5. 10-ft topographic contours obtained from Texas Natural Resources Information System (TNRIS), 2005,
6. Orthoimagery obtained from ESRI, December 2022.
7. Plugged geotechnical borings, drilled August 2023 provided by RKI (Project No. AAA22-149-00).

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11/1/23

STATE OF TEXAS
RICHARD V. KLAR
GEOLOGY
259
LICENSED
PROFESSIONAL GEOSCIENTIST

SITE GEOLOGIC MAP

WILLIAMSON COUNTY HEADQUARTERS FACILITY
APPROXIMATELY 38 ACRES
NORTHWEST OF SE INNER LOOP
AND SOUTHWESTERN BOULEVARD
GEORGETOWN, WILLIAMSON COUNTY, TEXAS

REVISIONS:

No.	DATE	DESCRIPTION

PROJECT No.: ASF23-094-00

ISSUE DATE:	11/01/2023
DRAWN BY:	HEH
CHECKED BY:	HEH
REVIEWED BY:	RVK

N W E S

0 20 40 80 FEET

1 INCH = 80 FEET

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: Mauricio Silveyra, P.E.

Date: _____

Signature of Customer/Agent:

_____

Regulated Entity Name: New Williamson County Headquarters Facility

Regulated Entity Information

1. The type of project is:

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

2. Total site acreage (size of property):37.6

3. Estimated projected population:Approximately 137 employees and 400 visitors per day

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	47,931	÷ 43,560 =	1.1
Parking	290,015	÷ 43,560 =	6.66
Other paved surfaces	44,891	÷ 43,560 =	1.04
Total Impervious Cover	382,837	÷ 43,560 =	8.80

Total Impervious Cover 8.80 **÷ Total Acreage** 37.6 **X 100 =** 23.4**% 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:

0% Domestic	46,676Gallons/day
0% Industrial	0Gallons/day
100% Commingled	0Gallons/day
TOTAL gallons/day 46,676	

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 San Gabriel WWTP (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" = 30'.

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): 48491C0485F dated December 20, 2019

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 A – FACTORS AFFECTING SURFACE WATER QUALITY

Factors affecting surface water quality include oils, grease, and other substances typically associated with driving areas. The surface runoff will be treated as required by TCEQ regulations for projects located over the Edwards Aquifer Recharge Zone.

The proposed development consists of one building totaling 120,224 square feet and surface parking lots. The development of the County Headquarters will increase the impervious cover of the site, therefore, increasing the peak flow runoff on the site.

The maximum allowable impervious cover for uses in Georgetown over the Edwards Aquifer Recharge Zone is 55%. A Batch Detention Basin and Vegetative Filter Strips are being proposed to treat site runoff. The pond meets requirements for TCEQ water quality measures over the Edwards Aquifer Recharge Zone and the requirements of the City of Georgetown.

ATTACHMENT B – VOLUME AND CHARACTER OF STORMWATER

A Batch Detention Basin with a water quality volume of 54,757 cubic feet is proposed on site. The pond is designed to treat 1.55 inches of runoff. The proposed design features meet TCEQ's current requirements for BMP's located within the Edwards Aquifer Recharge Zone.

Reference the Drainage Area Maps Included for additional information and complete calculations.

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: Mauricio Silveyra, P.E.

Date: 11/16/2023

Signature of Customer/Agent:

Regulated Entity Name: New Williamson County Headquarters Facility

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: Smith Branch - San Gabriel

Temporary Best Management Practices (TBMPs)

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

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

☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

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

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

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

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

☒ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

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

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

☐ N/A

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

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

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

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

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

Soil Stabilization Practices

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

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

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

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

Administrative Information

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

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

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

ATTACHMENT A – SPILL RESPONSE ACTIONS

The contractor shall be responsible for the adequate cleanup of any chemical spills during construction. The clean up will be performed to the TNRCC Regulatory Guidance Handbook standards, RG-285, June 1997. The contractor will notify TCEQ of any chemical spills as required and outlined in the TNRCC Regulatory Guidance Handbook, at 512-463-7727 or 512-239-2507.

Reportable quantities as defined by 30 TAC Chapter 327 are as follows:

(a) Hazardous substances. The reportable quantities for hazardous substances shall be:

1. for spills or discharges onto land--the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in 40 CPR §302.4; or
2. for spills or discharges into waters in the state--the quantity designated as the Final RQ in Table 302.4 in 40 CPR §302.4, except where the Final RQ is greater than 100 pounds in which case the RQ shall be 100 pounds.

(b) Oil, petroleum product, and used oil.

1. The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:

   (A) for spills or discharges onto land--210 gallons (five barrels); or
   (B) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.

2. The RQ for petroleum product and used oil shall be:

   (A) except as noted in subparagraph (B) of this paragraph, for spills or discharges onto land--25 gallons;
   (B) for spills or discharges to land from PST exempted facilities—210 gallons (five barrels); or
   (C) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.

(c) Industrial solid waste or other substances. The RQ for spills or discharges into water in the state shall be 100 pounds.

ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION

Asphalt products will be used on this project. After placement of asphalt, emulsion, or coatings, the applicant will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor should maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur.

Sediment and soil from disturbed areas are another potential source of contamination. During activities causing soil disturbance, temporary best management practices outlined in Attachment D.

Other potential sources of contamination include hydraulic fluid and diesel fuel from mechanical equipment, as well as paints and chemicals used on site. Any spills shall be handled according to the Spill Response Actions in **ATTACHMENT A.**

ATTACHMENT C – SEQUENCE OF MAJOR ACTIVITIES

Install erosion controls and tree protection per approved plans (28 acres).
Hold pre-construction meeting (N/A).
Begin grading and rough excavation for pond (6.38 acres).
Begin trenching and installing utilities for the site (7.8 acres).
Begin grading and rough excavation for on-site circulation roads (25 acres).
Begin grading and rough excavation parking structures and building foundations (11.3 acres).
Begin construction of buildings and parking structures (11.3 acres).
Begin construction of hardscape and landscape areas (28 acres).
Complete pond construction (0.47 acres).
The contractor shall obtain Engineer's concurrence letter prior to step 11 (N/A).
Restore disturbed areas (28 acres).
Remove temporary erosion/sedimentation controls only after the Engineer has accepted the permanent erosion/sedimentation controls (28 acres).

ATTACHMENT D - TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Before construction begins, silt fences will be installed around the perimeter of the limits of construction, including "J Hooks" as needed, and on the downgradient side of the contractor staging and materials storage area. Prior to any other work, the batch detention pond will be rough cut, which will act as a temporary BMP during construction. When the pond is full, the overflow will sheet flow through silt fences downstream. The silt fencing and water quality area will be inspected weekly during construction, and after any rainfall.

Proposed BMPs and measures will prevent pollution of surface water or groundwater that originates on-site, by directing and filtering the runoff through the silt fence, and maintaining natural drainage patterns on the site, which direct runoff towards the proposed detention pond and the San Gabriel River.

Proposed BMPs and measures will prevent pollutants from entering surface streams (San Gabriel River), sensitive features, or the aquifer, by filtering the runoff through the silt fence and diverting it to the detention pond prior to leaving the site and entering the adjacent creek.

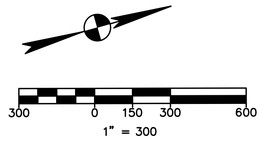
There are two identified critical environmental features within the property boundary, and the proposed improvements do not encroach these areas or the associated buffers. The limits of construction will not encroach these areas; therefore, the perimeter silt fence will allow the natural drainage patterns to remain within the buffer areas that are outside the limits of construction.

ATTACHMENT F – STRUCTURAL PRACTICES

Silt fences, and triangular filter dikes will be used to limit the runoff discharge of pollutants from exposed areas of the site, and the water quality area will be used as a sediment trap to store the onsite flows from exposed areas of the site.

ATTACHMENT G – DRAINAGE AREA MAP

Existing and Proposed Drainage Area Maps are included in the Construction Documents. The project site is approximately 28.84 acres of developable area, and construction will be phased. There may be areas with more than 10 acres within a common drainage area that will be disturbed at one time; the proposed batch detention pond will be used as a temporary sediment basin to provide water quality treatment.



LEGEND

EXISTING	DESCRIPTION
	PROPERTY (R.O.W.) LINE
678	CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE DIVIDE
	DIRECTION OF FLOW
E1 1.03 AC.	DRAINAGE AREA NUMBER AND ACREAGE

Area:	Enter DA Name Here							
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type	Acres	SF	%
Acres	49.01	49.01	49.01	49.01	49.01	*Agricultural lands - [GOOD] Grassland, or range-continuous forage for grazing*	48.34	2,105,690	98.63
CN	80.00	80.00	80.00	80.00	80.00	*Impervious Areas - Paved; open ditches (including right of way)*	0.67	29,185	1.37
Tc	12.68	12.68	12.68	12.68	12.68		0.00	0	0.00
Q						**Total**	**49.01**	**2,134,876**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Agricultural lands	[GOOD] Grassland, or range-continuous forage fc	**D**	80.00	48.34
2.	Impervious Areas	Paved; open ditches (including right of way)	**D**	89.00	0.67
3.				0.00	
				80.00	49.01

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		1927.52	46			
Select Surface Type:	Asphalt		*N/A*	*N/A*			
Manning's (n)	0.016	0.000			0.000	0.000	
Change in Elevation (ΔE)	2.60		62.18	2.04			
Slope=ΔE/L	0.0260	0.0000	0.0323	0.0443	0.0000	0.0000	
Tc	1.42	0.00	11.09	0.18	0.00	0.00	**12.68**

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11/16/2023

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NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY
Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE

EXISTING DRAINAGE AREA MAP

SHEET NO.

12

LEGEND

EXISTING	DESCRIPTION
	PROPERTY (R.O.W.) LINE
678	CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE DIVIDE
	DIRECTION OF FLOW
E1 1.03 AC.	DRAINAGE AREA NUMBER AND ACREAGE

Area:	P1					
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type
Acres	12.77	12.77	12.77	12.77	12.77	*Open space lawns parks golf courses cemeteries - Good condition (grass cover 75%)*
CN	92.00	92.00	92.00	92.00	92.00	*Impervious Areas - Paved; curbs and storms drains (excluding right of way)*
Tc	12.65	12.65	12.65	12.65	12.65	
Q						**Total**

Acres	SF	%
4.50	196,020	35.24
8.27	360,241	64.76
0.00	0	0.00
12.77	**556,261**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Open space lawns parks golf courses cemeteries	Good condition (grass cover 75%)	D	80.00	4.50
2.	Impervious Areas	Paved; curbs and storms drains (excluding right of	D	98.00	8.27
3.				0.00	
				92.00	12.77

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100			235	760		
Select Surface Type:	Woods, Light		N/A	N/A	Concrete		
Manning's (n)	0.400	0.000			0.012	0.000	
Change in Elevation (ΔE)	13.00			12.00	5.00		
Slope=ΔE/L	0.1300	0.0000	0.0000	0.0511	0.0065	0.0000	
Tc	9.80	0.00	0.00	0.85	2.00	0.00	12.65

Channel Flow Parameters		
Pipe Diameter (ft):	2	
Velocity:	6.330	ft/s
Channel Area (sf):		
Channel Perimeter (ft):		
Velocity:	0.000	ft/s

Area:	P2					
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type
Acres	0.53	0.53	0.53	0.53	0.53	*Impervious Areas - Paved; curbs and storms drains (excluding right of way)*
CN	98.00	98.00	98.00	98.00	98.00	
Tc	5.00	5.00	5.00	5.00	5.00	
Q						**Total**

Acres	SF	%
0.53	23,087	100.00
0.00	0	0.00
0.00	0	0.00
0.53	**23,087**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Impervious Areas	Paved; curbs and storms drains (excluding right of	D	98.00	0.53
2.				0.00	
3.				0.00	
				98.00	0.53

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100			569			
Select Surface Type:			N/A	N/A			
Manning's (n)	0.000	0.000			0.000	0.000	
Change in Elevation (ΔE)	6.00			11.00			
Slope=ΔE/L	0.0600	0.0000	0.0000	0.0193	0.0000	0.0000	
Tc	0.00	0.00	0.00	3.36	0.00	0.00	3.36

Channel Flow Parameters		
Pipe Diameter (ft):		
Velocity:	0.000	ft/s
Channel Area (sf):		
Channel Perimeter (ft):		
Velocity:	0.000	ft/s

Area:	P3					
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type
Acres	71.42	71.42	71.42	71.42	71.42	*Agricultural lands - [GOOD] Brush—brush-weed-grass mixture with brush the major element*
CN	0.00	0.00	0.00	0.00	0.00	
Tc	35.29	35.29	35.29	35.29	35.29	
Q						**Total**

Acres	SF	%
35.71	1,555,528	50.00
0.00	0	0.00
35.71	1,555,528	50.00
71.42	**3,111,055**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Agricultural lands	[GOOD] Brush—brush-weed-grass mixture with b	D	73.00	35.71
2.				0.00	
3.				0.00	
				73.00	35.71

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		2845				
Select Surface Type:	Woods, Light		N/A	N/A			
Manning's (n)	0.400	0.000			0.000	0.000	
Change in Elevation (ΔE)	3.50		70.00				
Slope=ΔE/L	0.0350	0.0000	0.0246	0.0000	0.0000	0.0000	
Tc	16.56	0.00	18.74	0.00	0.00	0.00	35.29

Channel Flow Parameters		
Pipe Diameter (ft):		
Velocity:	0.000	ft/s
Channel Area (sf):		
Channel Perimeter (ft):		
Velocity:	0.000	ft/s

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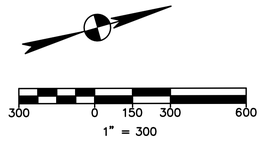
WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE
PROPOSED DRAINAGE AREA MAP

SHEET NO.
13



LEGEND

EXISTING	DESCRIPTION
	PROPERTY (R.O.W.) LINE
678	CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE DIVIDE
	DIRECTION OF FLOW
E1 1.03 AC.	DRAINAGE AREA NUMBER AND ACREAGE

Area:	P2-OFF								
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Surface	Acres	SF	%
Acres	34.48	34.48	34.48	34.48	34.48	*Grass, Fair, 2-7%*	34.48	1,501,949	100.00
C	0.33	0.38	0.42	0.49	0.58				
Tc	18.17	18.17	18.17	18.17	18.17				
I	3.87	5.76	7.41	9.35	12.20				
Q	**44.0**	**75.5**	**107.3**	**158.0**	**244.1**	**Total**	**34.48**	**1,501,949**	**100**

Area:	E1-OFF								
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Surface	Acres	SF	%
Acres	109.25	109.25	109.25	109.25	109.25	*Grass, Fair, 2-7%*	107.51	4,683,136	98.41
C	0.34	0.39	0.43	0.50	0.59	*Asphalt*	1.74	75,794	1.59
Tc	28.39	28.39	28.39	28.39	28.39				
I	3.05	4.56	5.92	7.46	9.83				
Q	**112.2**	**192.7**	**276.0**	**405.5**	**629.8**	**Total**	**109.25**	**4,758,930**	**100**

	Select Surface Type:	Input Area (ac)
1.	Grass, Fair, 2-7%	34.48
2.		
3.		
4.		
		6.98

	Select Surface Type:	Input Area (ac)
1.	Grass, Fair, 2-7%	107.51
2.	Asphalt	1.74
3.		
4.		
		0.69

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		1302.35				
Select Surface Type:	Short-grass prairie		N/A	N/A			
Manning's (n)	0.150						
Change in Elevation (ΔE)	2.00		31.00				
Slope=ΔE/L	0.0200		0.0238				
Tc	9.45		8.72				**18.17**

Channel Flow Parameters	
Pipe Diameter (ft):	
Velocity:	
Channel Area (sf):	
Channel Perimeter (ft):	
Velocity:	

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		2564.9				
Select Surface Type:	Short-grass prairie		N/A	N/A			
Manning's (n)	0.150						
Change in Elevation (ΔE)	1.00		71.00				
Slope=ΔE/L	0.0100		0.0277				
Tc	12.47		15.92				**28.39**

Channel Flow Parameters	
Pipe Diameter (ft):	
Velocity:	
Channel Area (sf):	
Channel Perimeter (ft):	
Velocity:	

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SHEET TITLE
EXISTING OFFSITE DRAINAGE AREA MAP

SHEET NO.
14

ATTACHMENT H – TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS

The proposed water quality pond is to be rough-cut to act as a temporary sediment pond as described in the Sequence of Construction. The detention volume will be stacked on top of the water quality volume, making the proposed pond a combined water quality and detention pond. The developed drainage area to the said pond is approximately 12.77 acres. A rough-cut pond has been provided to treat 12.44 inches of runoff. The pond meets TCEQ's current BMPs regarding design over the Edwards Aquifer Recharge Zone. A total water quality volume of 54,757 cubic feet is required by TCEQ's BMPs. The proposed water quality pond is sized to accommodate 66,578 cubic feet. The entire outlet system shall be protected from erosion and maintained throughout the course of construction until final site restoration is complete.

ATTACHMENT I – INSPECTION AND MAINTENANCE FOR BMPS

Implementation of site controls shall be performed by a qualified contractor experienced in the proper installation of such devices in accordance with manufacturers' specifications, and in keeping with recognized Best Management Practices (BMP's), and in keeping with TPDES regulations. Qualification of installing Contractor shall be reviewed with the Owner prior to entering a contract with them for services.

The Contractor shall inspect all BMP's at regular intervals as specified in the Storm Water Pollution Prevention Plan for this project.
Use standard Owner Inspection forms for each inspection.
Record all deficiencies of site controls and take immediate action to correct any deficiencies recorded.
Keep records of inspections current and on file, available for review by EPA, TCEQ, MS4 operator and Owner.

The silt fences and temporary controls must be inspected at weekly intervals and after significant rainfall events to ensure that they are functioning properly. The following BMP's must be maintained after a rainstorm:

The inlet protection must be checked for silt build up and when it is prohibiting the conveyance of water into the storm sewer, the silt must be removed.

The construction entrance shall be inspected after a rainstorm to make sure it is still in adequate condition and intact to support and function as designed.

The washout pits shall be monitored and cleaned after a storm to limit the pollution and run-off.

The silt fences around the stock piles need to be checked and cleaned after a rain storm to remove the silt deposits over 6 inches.

Repairs must be made immediately to the damaged areas and when the silt accumulates in the controls to 6 inches it must be removed.

ATTACHMENT J – SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Please see the General Notes Sheet in the attached Construction Documents for a detail of the permanent soil stabilization practices.

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: Mauricio Silveyra, P.E.

Date: 11/16/2023

Signature of Customer/Agent

Regulated Entity Name: New Williamson County Headquarters Facility

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 B – BEST MANAGEMENT PRACTICES FOR UPGRADIENT STORMWATER

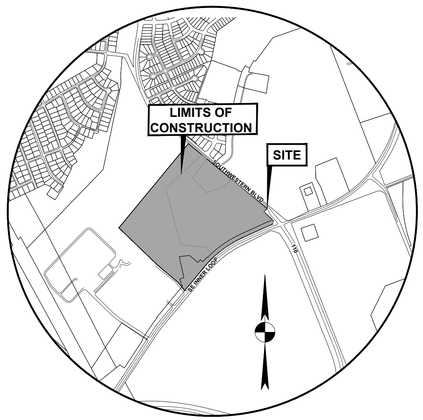
Surface water, groundwater, or stormwater originates upgradient from the site and does not flow across the project area. Upgradient stormwater flows through existing drainage channels. The site generally flows from southeast to northwest towards San Gabriel River.

ATTACHMENT C – BMPs FOR ON-SITE STORMWATER

Batch Detention Basin and Vegetative Filter Strips are proposed to treat the on-site stormwater runoff and to prevent pollution of surface water or groundwater that originates on-site or flows off the site. The pond meets TCEQ's current design requirements and TSS removal standards for BMPs over the Edwards Aquifer Recharge Zone.

ATTACHMENT F – CONSTRUCTION PLANS

Construction Documents are included with this application. Design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. Reference the Drainage Area Maps, Water Quality Design and Detail Sheets, and General Notes Sheet for all applicable information.



VICINITY MAP

N.T.S.

OWNER: WILLIAMSON COUNTY
3101 S.E. INNER LOOP
GEORGETOWN, TX 78626
(512) 943-1599

ARCHITECT: MARMON MOK
900 E 6TH ST, STE 105
AUSTIN, TX 78702
(512) 687-3423

ENGINEER: GarzaEMC, LLC.
7708 RIALTO BLVD, SUITE 125
AUSTIN, TEXAS 78735
(512) 298-3284

LANDSCAPE ARCHITECT: COLEMAN & ASSOCIATES
9890 SILVER MOUNTAIN DR
AUSTIN, TX 78737
(512) 476-2090

WATERSHED STATUS:

THIS PROJECT IS LOCATED IN THE SMITH BRANCH - SAN GABRIEL RIVER WATERSHED. THIS PROJECT IS IN THE EDWARDS AQUIFER RECHARGE ZONE AND EDWARDS AQUIFER TRANSITION ZONE.

FLOODPLAIN INFORMATION:

A PORTION OF THE TRACT LIES WITHIN THE 100 YEAR FLOODPLAIN AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP 48491C0485F, DATED DECEMBER 20, 2019, FOR TRAVIS COUNTY, TEXAS INCORPORATED AREAS.

LEGAL DESCRIPTION:

147.1203 ACRES OF OUT OF THE WILLIAM ADDISON SURVEY - AW 0021

BENCHMARK NOTE:

THE FIRST SITE BENCHMARK (TBM #1) IS A MAG NAIL WITH METAL WASHER STAMPED "JPH BENCHMARK" SET IN CONCRETE FOR DRAINAGE PURPOSES, LOCATED APPROXIMATELY 302 FEET NORTHWESTERLY FROM THE NORTHWEST EDGE OF PAVEMENT OF SOUTHEAST INNER LOOP, AND APPROXIMATELY 88 FEET SOUTHEASTERLY FROM THE NORTHWEST CORNER OF CITY OF GEORGETOWN TRACT. BENCHMARK ELEVATION = 752.24' (NAVD'88). SEE VICINITY MAP FOR GENERAL LOCATION.

THE SECOND SITE BENCHMARK (TBM #2) IS A MAG NAIL WITH METAL WASHER STAMPED "JPH BENCHMARK" SET IN A CONCRETE SIDEWALK IN THE NORTHEAST MARGIN OF SOUTHWESTERN BOULEVARD, LOCATED APPROXIMATELY 67 FEET NORTHEASTERLY FROM THE SOUTHWEST RIGHT-OF-WAY LINE OF SOUTHWESTERN BOULEVARD, AND APPROXIMATELY 1,575 FEET NORTHWESTERLY FROM THE INTERSECTION OF SOUTHWESTERN BOULEVARD AND SOUTHEAST INNER LOOP. BENCHMARK ELEVATION = 749.92' (NAVD'88). SEE VICINITY MAP FOR GENERAL LOCATION.

garza emc
7708 Rialto Blvd., Suite 125
Austin, Texas 78735
Tel. (512) 298-3284 Fax (512) 298-2592
TBPE # F-14629

SITE DEVELOPMENT PERMIT PLANS

FOR

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY

ADDRESS : SOUTHWESTERN BLVD/S.E. INNER LOOP

SUBMITTAL DATE : NOVEMBER 16, 2023

SUBMITTED BY :

STATE OF TEXAS
MAURICIO SILVEYRA
142987
LICENSED PROFESSIONAL ENGINEER

11/16/2023

MAURICIO SILVEYRA, P.E. DATE
GarzaEMC, LLC.
7708 RIALTO BLVD, SUITE 125
AUSTIN, TEXAS 78735
(512) 298-3284

PLAN SUBMITTALS:

NO.	DATE	COMMENTS
1	2023/11/16	TCEQ WPAP INITIAL SUBMITTAL

I, MAURICIO SILVEYRA, P.E., CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

SHEET INDEX

GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER, AND SUCCESSORS TO THE CURRENT PROPERTY OWNER, TO ENSURE THE SUBJECT PROPERTY AND ANY IMPROVEMENTS ARE MAINTAINED IN CONFORMANCE WITH THIS SITE DEVELOPMENT PLAN.
2. THIS DEVELOPMENT SHALL COMPLY WITH ALL STANDARDS OF THE UNIFIED DEVELOPMENT CODE (UDC), THE CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL, THE DEVELOPMENT MANUAL AND ALL OTHER APPLICABLE CITY STANDARDS.
3. THIS SITE DEVELOPMENT PLAN SHALL MEET THE UDC STORMWATER REQUIREMENTS.
4. ALL SIGNAGE REQUIRES A SEPARATE APPLICATION AND APPROVAL FROM THE INSPECTION SERVICES DEPARTMENT. NO SIGNAGE IS APPROVED WITH THE SITE DEVELOPMENT PLAN.
5. SIDEWALKS SHALL BE PROVIDED IN ACCORDANCE WITH THE UDC.
6. DRIVEWAYS WILL REQUIRE APPROVAL BY THE DEVELOPMENT ENGINEER OF THE CITY OF GEORGETOWN.
7. OUTDOOR LIGHTING SHALL COMPLY WITH SECTION 7.04 OF THE UDC.
8. SCREENING OF MECHANICAL EQUIPMENT, DUMPSTERS AND PARKING SHALL COMPLY WITH CHAPTER 8 OF THE UDC. THE SCREENING IS SHOWN ON THE LANDSCAPE AND ARCHITECTURAL PLANS, AS APPLICABLE.
9. THE COMPANION LANDSCAPE PLAN HAS BEEN DESIGNED AND PLANT MATERIALS SHALL BE INSTALLED TO MEET ALL REQUIREMENTS OF THE UDC.
10. ALL MAINTENANCE OF REQUIRED LANDSCAPE SHALL COMPLY WITH THE MAINTENANCE STANDARDS OF CHAPTER 8 OF THE UDC.
11. A SEPARATE IRRIGATION PLAN SHALL BE REQUIRED AT THE TIME OF BUILDING PERMIT APPLICATION.
12. FIRE FLOW REQUIREMENTS OF 1500 PER MINUTE (INCLUDE AMOUNT) ARE BEING MET BY THIS PLAN.
13. ANY HERITAGE TREE NOTED ON THIS SITE DEVELOPMENT PLAN IS SUBJECT, IN PERPETUITY, TO THE MAINTENANCE, CARE, PRUNING AND REMOVAL REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE.
14. THE CONSTRUCTION PORTION OF THESE PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE, BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS AND CODES.
15. THIS PROJECT IS SUBJECT TO ALL CITY STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.
16. WHERE NO EXISTING OVERHEAD INFRASTRUCTURE EXISTS, UNDERGROUND ELECTRIC UTILITY LINES SHALL BE LOCATED ALONG THE STREET AND WITHIN THE SITE. WHERE EXISTING OVERHEAD INFRASTRUCTURE IS TO BE RELOCATED, IT SHALL BE RE–INSTALLED UNDERGROUND AND THE EXISTING FACILITIES SHALL BE REMOVED AT THE DISCRETION OF THE DEVELOPMENT ENGINEER.
17. ALL ELECTRIC AND COMMUNICATION INFRASTRUCTURE SHALL COMPLY WITH UDC SECTION 13.06

TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES:

1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D. WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED. AT A MINIMUM, CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS MEET TCEQ'S "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS."
2. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NSF INTERNATIONAL STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI [§290.44(A)(1)].
3. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS [§290.44(A)(2)].
4. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY [§290.44(A)(3)].
5. ALL WATER LINE CROSSINGS OF WASTEWATER MAINS SHALL BE PERPENDICULAR [§290.44(E)(4)(B)].
6. WATER TRANSMISSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE [§290.44(A)(4)].
7. THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES IS 0.25 PERCENT [§290.44(B)].
8. THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES WITH VENT OPENINGS TO THE ATMOSPHERE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT [§290.44(D)(1)].
9. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION [§290.44(F)(1)].
10. WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM OR SEMI-PERMANENT BODY OF WATER THE WATERLINE SHALL BE INSTALLED IN A SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST BE PROVIDED ON EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION OF THE SYSTEM TO BE ISOLATED AND TESTED [§290.44(F)(2)].
11. PURSUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY THE MOST CURRENT AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE. INCLUDE THE FORMULAS IN THE NOTES ON THE PLANS.
- THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLORIDE (PVC) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

  $Q = LD\sqrt{P} / 148{,}000$

  WHERE:
  Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
  L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
  D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
  P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).
- THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

  $Q = SD\sqrt{P} / 148{,}00$

  WHERE:
§ L = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
§ S = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
§ D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
§ P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).
12. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET §290.44(E)(1)-(4).
13. THE SEPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER MAIN OR LATERAL MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT [§290.44(E)(5)].
14. FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION [§290.44(E)(6)].
15. SUCTION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, WASTEWATER LATERALS, OR WASTEWATER SERVICE LINES. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN FIVE FEET OF ANY TILE OR CONCRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE [§290.44(E)(7)].
16. WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAINFIELDS [§290.44(E)(8)].
17. THE CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH AWWA STANDARD C-651-14 OR MOST RECENT, THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATERLINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER [§290.44(F)(3)].
18. DECHLORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE WITH CURRENT AWWA STANDARD C655-09 OR MOST RECENT.

TCEQ WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES:

EDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES - LEGAL DISCLAIMER:

THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY BE REQUIRED TO ACHIEVE COMPLIANCE WITH TCEQ REGULATIONS FOUND IN TITLE 30, TEXAS ADMINISTRATIVE CODE (TAC), CHAPTERS 213 AND 217, AS WELL AS LOCAL ORDINANCES AND REGULATIONS PROVIDING FOR THE PROTECTION OF WATER QUALITY. ADDITIONALLY, NOTHING CONTAINED IN THE FOLLOWING/LISTED "CONSTRUCTION NOTES" RESTRICTS THE POWERS OF THE ED, THE COMMISSION OR ANY OTHER GOVERNMENTAL ENTITY TO PREVENT, CORRECT, OR CURTAIL ACTIVITIES THAT RESULT OR MAY RESULT IN POLLUTION OF THE EDWARDS AQUIFER OR HYDROLOGICALLY CONNECTED SURFACE WATERS. THE HOLDER OF ANY EDWARDS AQUIFER PROTECTION PLAN CONTAINING "CONSTRUCTION NOTES" IS STILL RESPONSIBLE FOR COMPLIANCE WITH TITLE 30, TAC, CHAPTERS 213 OR ANY OTHER APPLICABLE TCEQ REGULATION, AS WELL AS ALL CONDITIONS OF AN EDWARDS AQUIFER PROTECTION PLAN THROUGH ALL PHASES OF PLAN IMPLEMENTATION. FAILURE TO COMPLY WITH ANY CONDITION OF THE ED'S APPROVAL, WHETHER OR NOT IN CONTRADICTION OF ANY "CONSTRUCTION NOTES," IS A VIOLATION OF TCEQ REGULATIONS AND ANY VIOLATION IS SUBJECT TO ADMINISTRATIVE RULES, ORDERS, AND PENALTIES AS PROVIDED UNDER TITLE 30, TAC § 213.10 (RELATING TO ENFORCEMENT). SUCH VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AND INJUNCTION. THE FOLLOWING/LISTED "CONSTRUCTION NOTES" IN NO WAY REPRESENT AN APPROVED EXCEPTION BY THE ED TO ANY PART OF TITLE 30 TAC, CHAPTERS 213 AND 217, OR ANY OTHER TCEQ APPLICABLE REGULATION

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
12100 PARK 35 CIRCLE, BUILDING A
AUSTIN, TEXAS 78753-1808
PHONE (512) 339-2929
FAX (512) 339-3795SAN ANTONIO REGIONAL OFFICE
14250 JUDSON ROAD
SAN ANTONIO, TEXAS 78233-4480
PHONE (210) 490-3096
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GENERAL CONSTRUCTION NOTES:

1. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF GEORGETOWN, ENGINEER, AND CONTRACTOR, AND ANY OTHER AFFECTED PARTIES. NOTIFY ALL SUCH PARTIES AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED SHALL BE REPAIRED BY CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE PROJECT.
3. THE LOCATION OF ANY EXISTING WATER, WASTEWATER LINES OR OTHER UTILITIES SHALL BE VERIFIED BY THE CITY OF GEORGETOWN & OTHER UTILITY PROVIDERS PRIOR TO CONSTRUCTION.
4. MANHOLE FRAMES, COVERS, WATER VALVE COVERS, ETC., SHALL BE RAISED TO FINISHED GRADE AT THE CONTRACTOR'S EXPENSE BY A QUALIFIED CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
5. GARZA EMC HAS ENDEAVORED TO DESIGN THESE PLANS COMPLIANT WITH ADA/TDLR AND OTHER ACCESSIBILITY REQUIREMENTS. HOWEVER, THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY RESPONSIBILITY FOR CONSTRUCTING THESE IMPROVEMENTS COMPLIANT WITH ALL APPLICABLE ACCESSIBILITY STANDARDS. IF THE CONTRACTOR NOTICES ANY DISCREPANCIES BETWEEN THESE PLANS AND ACCESSIBILITY LAWS/RULES, HE IS TO STOP WORK IN THE AREA OF CONFLICT AND NOTIFY GARZA EMC IMMEDIATELY FOR A RESOLUTION AND/OR REVISION TO THESE PLANS. GARZA EMC SHALL NOT BE HELD RESPONSIBLE FOR CONSTRUCTION THIS SITE COMPLIANT WITH ACCESSIBILITY LAWS/RULES REGARDLESS OF WHAT IS SHOWN IN THESE PLANS.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COMPLYING WITH A SWPP.

SEQUENCE OF CONSTRUCTION:

NOTE: OTHER CONTRACTORS COULD BE WORKING ON THIS SITE. COORDINATE WITH THE ACTIVITIES OF OTHERS.

1. CONSTRUCTION ACTIVITIES WILL COMMENCE WITH THE INSTALLATION OF THE REQUIRED EROSION AND SEDIMENTATION CONTROL. THE PROJECT WILL BE CONSTRUCTED IN ONE PHASE.
2. EXCAVATION WILL TAKE PLACE WHERE PROPOSED WATER QUALITY POND, BUILDINGS, PARKING AREAS, RETAINING WALL AND UTILITIES WILL BE SITUATED. SPOILS OF THIS MATERIAL MAY BE PLACED AT A LOCATION ON THE PROJECT SITE AS DIRECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER OR HAULED OFF-SITE. THESE SPOILS AND ANY OTHER LOOSE GRANULAR MATERIAL WILL BE ENCLOSED BY A SILT FENCE. THE TOTAL AREA DISTURBED BY CONSTRUCTION IS APPROXIMATELY XX ACRES.
3. GRADING ON THE SITE WILL CONSIST OF PLACEMENT AND COMPACTION OF BASE OR SELECT FILL MATERIAL UNDER AND/OR AROUND THE PROPOSED BUILDINGS AND PARKING AREAS. APPROXIMATELY XX ACRES WILL BE DISTURBED.
4. THE INSTALLATION OF UTILITIES AND STORM SEWER WILL DISTURB A PORTION OF THE SITE. PROPOSED UTILITY IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A XX WATER SERVICE, XX FIRE LINE, WW WASTEWATER LINE, XX STORM SEWER.
5. SUBSEQUENT TO THE CONSTRUCTION OF THE BUILDING AND PARKING, DISTURBED AREAS WILL BE HYDRO-MULCHED OR SEEDED.
6. ONCE VEGETATION IS ESTABLISHED ON THE SITE, TEMPORARY BMPS WILL BE REMOVED AS ALLOWED BY THE ENGINEER.

TEMPORARY EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITHE THE EROSION AND SEDIMENTATION CONTROL PLAN.
3. ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE CITY ENGINEER.
4. THE CONTRACTOR IS REQUIRED TO INSPECT ALL CONTROLS AND FENCED AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
5. FIELD REVISIONS TO THE EROSION CONTROL PLAN MAY BE REQUIRED BY THE ENGINEER DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.

CITY OF GEORGETOWN GENERAL NOTES:

1. THESE CONSTRUCTION PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE BASES ON THE ENGINEERS CONCURRENCE OF COMPLIANCE, THE CONSTRUCTION PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS.
2. THIS PROJECT SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.
3. THE SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN.
4. WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC.
5. WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS
6. MAXIMUM DISTANCES BETWEEN WASTEWATER MANHOLES IS 500 FEET.
7. WASTEWATER MAINS SHALL BE LOW PRESSURE AIR TESTED AND MANDREL TESTED BY CONTRACTOR ACCORDING TO THE CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.
8. WASTEWATER MANHOLES SHALL BE VACUUM TESTED AND COATED BY THE CONTRACTOR ACCORDING TO THE CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.
9. WASTEWATER MAINS SHALL BE CAMERA TESTED BY THE CONTRACTOR AND SUBMITTED TO THE CITY ON DVD FORMAT PRIOR TO PAVING THE STREETS.
10. PRIVATE WATER SYSTEM FIRE LINES SHALL BE TESTED BY THE CONTRACTOR TO 200 PSI FOR 2 HOURS.
11. PRIVATE WATER SYSTEM FIRE LINES SHALL BE DUCTILE IRON PIPING FROM THE WATER MAIN TO THE BUILDING SPRINKLER SYSTEM, AND 200 PSI C900 PVC FOR ALL OTHERS.
12. PUBLIC WATER SYSTEM MAINS SHALL BE 150 PSI C900 PVC AND TESTED BY THE CONTRACTOR AT 150 PSI FOR 4 HOURS.
13. AFTER SATISFACTORILY COMPLETING THE LEAKAGE TEST, EACH VALVED SECTION OVER THE ENTIRE PROJECT, SHALL BE TESTED AT 200 PSI FOR A SUFFICIENT PERIOD (APPROXIMATELY 10 MIN) TO DISCOVER ALL LEAKAGE OR DEFECTIVE MATERIALS AND/OR WORKMANSHIP.
14. ALL BENDS AND CHANGES IN DIRECTION ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.
15. LONG FIRE HYDRANT LEADS SHALL BE RESTRAINED.
16. ALL WATER LINED ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE CITY STANDARDS.
17. WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF TCEQ AND THE CITY.
18. FLEXIBLE BASE MATERIAL FOR PUBLIC STREETS SHALL BE TXDOT TYPE A GRADE 1.
19. HOT MIX ASPHALT CONCRETE PAVEMENT SHALL BE TYPE D UNLESS OTHERWISE SPECIFIED AND SHALL BE A MINIMUM OF 2 INCHES THINK ON PUBLIC STREETS AND ROADWAYS.
20. ALL SIDEWALK RAMPS ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.
21. A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS. THIS BOND SHALL BE ESTABLISHED FOR 1 YEAR IN THE AMOUNT OF 25% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE CITY FORMAT.
22. RECORD DRAWINGS OF THE PUBLIC IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER PRIOR TO ACCEPTANCE OF THE PROJECT. THESE DRAWINGS SHALL BE ON MYLAR OR ON TIFF OR PDF DISK (300 DPI). IF A DISK IS SUBMITTED, A BOND SET SHALL BE INCLUDED WITH THE DESK.

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11/16/2023

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HEADQUARTERS FACILITY
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Georgetown, Tx. 78626

WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE
GENERAL NOTES

SHEET NO.
02

TREE TABLE

POINT	SIZE	DESCRIPTION
100001	10.5"	GUMBULLY (M) 8",5"
100002	25"	WILLOW (M)(H) 17",12",4"
100003	20"	WILLOW (M) 10",8",6",6"
100004	10"	CEDAR ELM (M) 7",6"
100005	8"	CEDAR ELM
100006	9"	CEDAR ELM
100007	27"	CEDAR ELM (M)(H) 18",10",8"
100008	11"	CEDAR ELM (M) 8.5",5"
100009	8"	CEDAR ELM
100010	9.5"	COTTONWOOD
100011	17"	BOIS D'ARC (M) MT",10",8"
100012	18.5"	BOIS D'ARC (M) MT",11",9"
100013	27"	MESQUITE (M)(H) 9",8",8",7",7",6"
100014	25"	MESQUITE (M)(H) 16",10",8"
100015	20"	BOIS D'ARC (M) MT",8",7",6",6"
100016	17"	MESQUITE (M) 12",10"
100017	15"	BOIS D'ARC
100018	19.5"	MESQUITE
100019	20"	BOIS D'ARC (M) MT",13",5",5"
100020	8"	CEDAR ELM
100021	19"	MESQUITE (M) 9.5",9.5",9"
100022	16"	BOIS D'ARC (M) MT",9",8"
100023	16"	BOIS D'ARC (M) MT",6",6",5",5"
100024	15"	BOIS D'ARC (M) MT",9",6"
100025	16"	BOIS D'ARC (M) MT",13"
100028	15.5"	BOIS D'ARC (M) MT",8.5",8"
100029	25"	MESQUITE (M)(H) 8",8",6",6",5",5",4"
100030	20"	BOIS D'ARC (M) MT",8",8",7",4.5"
100031	16"	BOIS D'ARC
100032	15"	BOIS D'ARC (M) MT",9",6"
100033	17"	MESQUITE
100034	17"	BOIS D'ARC (M) MT",7",6",6",4"
100035	10.5"	CEDAR ELM
100036	15.5"	MESQUITE (M) 10",6",5"
100037	20"	BOIS D'ARC (M) MT",14"
100038	16"	BOIS D'ARC
100039	17.5"	MESQUITE (M) 12",11"
100040	19.5"	BOIS D'ARC (M) MT",9",8",8"
100041	17.5"	BOIS D'ARC (M) MT",8",7",6"
100042	16"	BOIS D'ARC (M) MT",8",8"
100043	22.5"	WILLOW
100044	15"	BOIS D'ARC (M) MT",10"
100045	14.5"	BOIS D'ARC (M) MT",8",7.5"
100046	15.5"	CEDAR ELM (M) 11",9"
100047	16.5"	CEDAR ELM (M) 12",9"
100048	13.5"	CEDAR ELM
100049	8.5"	CEDAR ELM
100050	13.5"	WILLOW (M) 11",5"
100051	19.5"	CEDAR ELM
100052	20"	WILLOW
100053	12"	WILLOW
100054	24"	WILLOW (M)(H) 20",8"
100055	24"	WILLOW (M)(H) 11",10",9.5",6"
100056	13"	WILLOW (M) 9",8"
100057	8"	WILLOW
100058	15.5"	WILLOW (M) 9",5",4",4"
100059	23.5"	MESQUITE (M) 18",11"
100060	12.5"	CEDAR ELM
100061	12"	CEDAR ELM
100062	17"	MESQUITE (M) 6",6",6",5",5"
100063	15"	BOIS D'ARC
100064	27.5"	BOIS D'ARC (M)(H) MT",13",10",7",6"
100065	22.5"	CEDAR (M) 8",8",8",7",6"
100066	15"	CEDAR
100067	15.5"	CEDAR (M) 11",9"
100068	22"	MESQUITE (M) 15",7",7"
100069	21"	MESQUITE (M) 8",6",6",6",4",4"
100070	15"	BOIS D'ARC (M) MT",11"
100071	20"	MESQUITE (M) 12",8",8"
100072	21.5"	BOIS D'ARC (M) MT",7",6.5",5",4.5",4.5",4.5"
100073	21"	MESQUITE (M) 10",9",7",5.5"
100076	15.5"	CEDAR ELM
100077	8"	CEDAR ELM
100078	9"	CEDAR ELM
100079	8.5"	CEDAR ELM (M) 6.5",4"
100080	19.5"	CEDAR ELM (M) 8.5",8",8",6"
100081	14.5"	CEDAR ELM (M) 10.5",4",4"
100082	8.5"	CEDAR ELM
100083	12"	CEDAR ELM
100084	10"	CEDAR ELM (M) 6.5",6.5"
100085	9"	CEDAR ELM (M) 6.5",5"
100086	10.5"	CEDAR ELM (M) 8",5"
100087	8"	CEDAR ELM (M) 6",4"
100088	9"	CEDAR ELM
100089	8"	CEDAR ELM
100090	17"	CEDAR ELM (M) 12",10"
100091	10"	CEDAR ELM
100092	9.5"	CEDAR ELM
100093	13"	HACKBERRY (M) 9",7.5"
100094	18"	HACKBERRY
100095	19.5"	MESQUITE (M) 13",7",6"
100096	23"	HACKBERRY
100097	18"	HACKBERRY (M) 13",10"
100098	22"	HACKBERRY (M) 12",12",8"
100101	12.5"	HACKBERRY (M) 9.5",6"
100102	16.5"	HACKBERRY (M) 11.5",10"
100103	26"	HACKBERRY (M)(H) 18",16"
100104	16.5"	HACKBERRY
100105	16.5"	HACKBERRY
100106	15"	MESQUITE
100107	17"	MESQUITE
100108	23.5"	MESQUITE (M) 17",13"
100109	44.5"	MESQUITE (M)(H) 35.5",18"

(M)= MULTIPLE TRUNKS
(H)= HERITAGE TREE

LEGEND

EXISTING	DEMO	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH	WTRMH	WATER MANHOLE
		WATER LINE MARKER
CMCR	CMCR	UNDERGROUND CABLE MARKER
GMCR	GMCR	UNDERGROUND GAS LINE MARKER
UGTM	UGTM	UNDERGROUND TELEPHONE MARKER
GSR	GSR	GAS RISER
TCSR	TCSR	TELEPHONE RISER
SPCB	SPCB	SPRINKLER CONTROL BOX
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		CABLE TV RISER
		ELECTRIC BOX
		ELECTRIC METER
		GAS METER
		GAS VALVE
TCBX	TCBX	TRAFFIC CONTROL BOX
TSPH	TSPH	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
EMH	EMH	ELECTRIC MANHOLE (SIZE VARIES)
WWMH	WWMH	WASTEWATER MANHOLE (SIZE VARIES)
SSMH	SSMH	STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
-o-	-o-	CHAIN LINK FENCE
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
SS	SS	STORMSEWER LINE
W	W	WATER LINE
WW	WW	WASTEWATER LINE
G	G	GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	OE	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
11"		TREE TO BE REMOVED
11"		TREE TO BE SAVED
11"		HERITAGE TREE
		EXISTING SITE TO BE DEMOLISHED

NOTES:
1. **EXISTING SITE, TOPOGRAPHY, AND TREE SURVEY COMPLETED BY JPH LAND SURVEYING DATED JULY 12, 2023**

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WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE

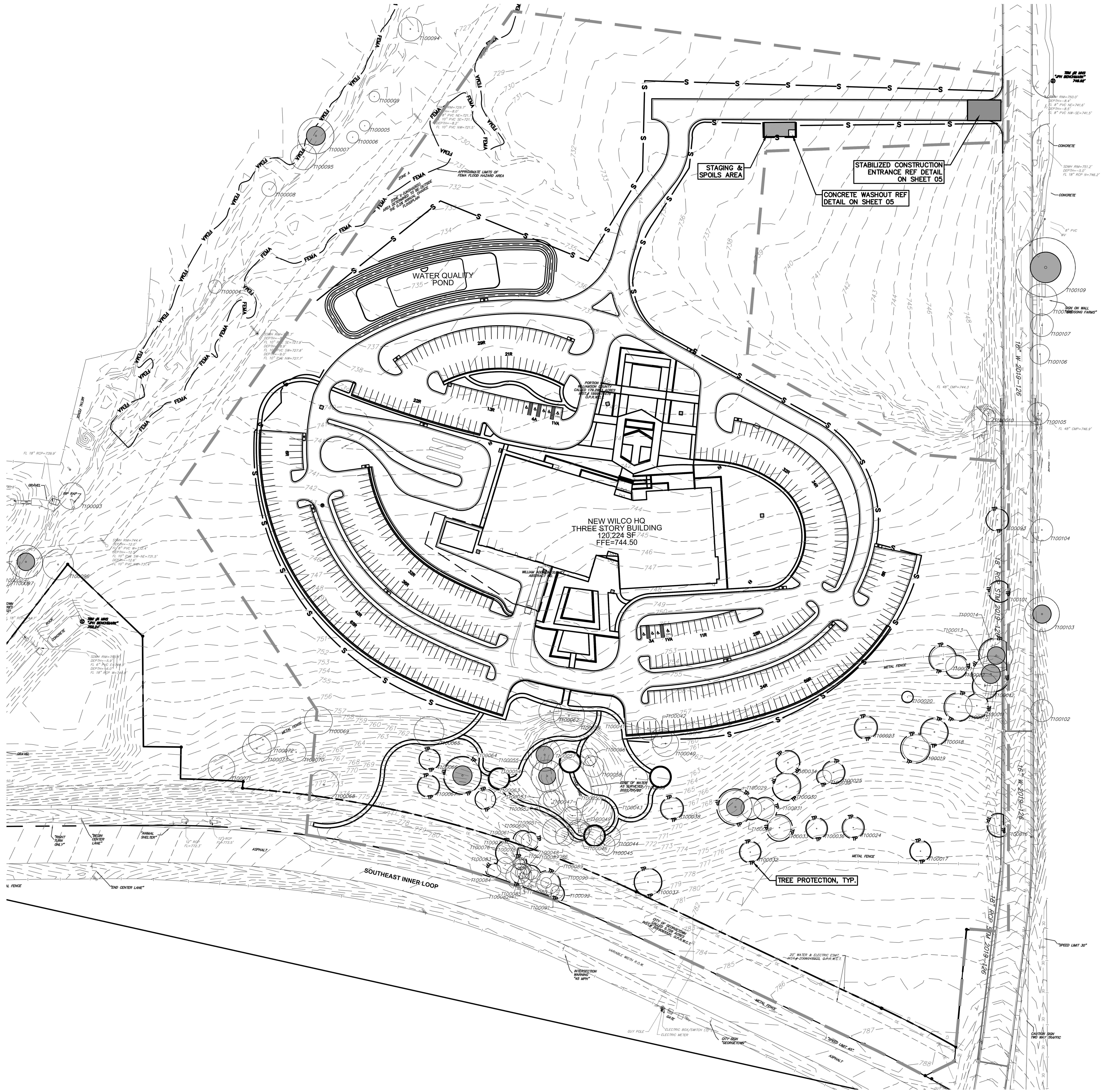
EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET NO.

03

1 2 3 4 5

A B C D



WATER QUALITY POND
735
STAGING & SPOILS AREA
CONCRETE WASHOUT REF DETAIL ON SHEET 05
STABILIZED CONSTRUCTION ENTRANCE REF DETAIL ON SHEET 05
APPROXIMATE LIMITS OF FEMA FLOOD HAZARD AREA
ZONE A
ZONE X (UNSHADED) AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
FEMA
NEW WILCO HQ
THREE STORY BUILDING
120,224 SF
FFE=744.50
PORTION OF WILLIAMSON COUNTY CALLED 179.29 ACRES
WILLIAM ADDISON SURVEY ABSTRACT NO.
EDGE OF WATER AS SURVEYED 2022/07/20
TREE PROTECTION, TYP.
METAL FENCE
SOUTHEAST INNER LOOP
ASPHALT
"RIGHT TURN ONLY"
"BEGIN CENTER LANE"
"ANIMAL SHELTER"
"END CENTER LANE"
12" RCP FL=772.3'
12" RCP FL=773.5'
GRAVEL
RIP RAP
ROCK
CONCRETE
CITY OF GEORGETOWN CALLED 5.728 ACRES INST.# 2019065531, O.P.R.W.C.T.
20' WATER & ELECTRIC ESMT. INST.# 2006048905, O.P.R.W.C.T.
VARIABLE WIDTH R.O.W.
INTERSECTION WARNING "45 MPH"
GUY POLE
ELECTRIC BOX/SWITCH (3)
ELECTRIC METER
GATE
CITY SIGN "GEORGETOWN"
"SPEED LIMIT 45"
"SPEED LIMIT 30"
CAUTION SIGN TWO WAY TRAFFIC
SIGN ON WALL "SONGBIRD FARMS"
CONCRETE
8" PVC
16" W 2019-126
18" RCP STM 2019-126
SDMH RIM=751.2' DEPTH=-5.0' FL 18" RCP N=746.2'
FL 48" CMP=744.3
FL 48" CMP=746.9'
SSMH RIM=750.0' DEPTH=-8.4' FL 8" PVC NE=741.6' DEPTH=-8.5' FL 8" PVC NW-SE=741.5'
SSMH RIM=744.4' DEPTH=-12.0' FL 8" PVC W=732.4' DEPTH=-12.5' FL 10" PVC SW-NE=731.5' DEPTH=-12.6' FL 10" PVC NW=731.4'
SDMH RIM=750.8' DEPTH=-5.9' FL 6" PVC E=744.9' DEPTH=-6.0' FL 18" RCP W=744.8'
FL 18" RCP=739.9'
T100007
T100095
T100094
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T100003
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21R
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3A
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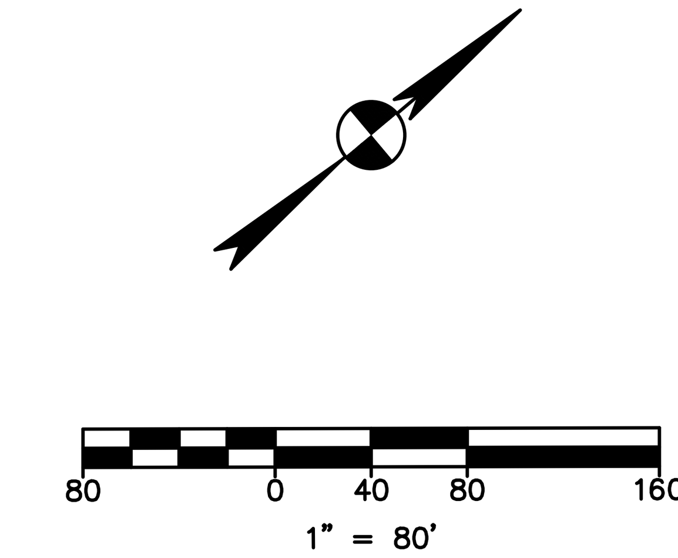
9R
8R



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH ●		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
TV	TV	CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
	TP	TREE PROTECTION
	S	SILT FENCE
	S	SILT FENCE WITH J-HOOKS
	S	LIMITS OF CONSTRUCTION & SILT FENCE
		SWALE
	TFD	TRIANGULAR FILTER DIKE
		ROCK BERM
		INLET PROTECTION
		STABILIZED CONSTRUCTION ENTRANCE/ TEMPORARY SPOILS/STAGING AREA
		MULCH SOCK
		MULCH LOG
		DIRECTION OF FLOW
1111		TREE TO BE REMOVED
1111		TREE TO BE SAVED
1111		HERITAGE / MATURE TREE

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STATE OF TEXAS
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[illegible]

11/16/2023

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Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

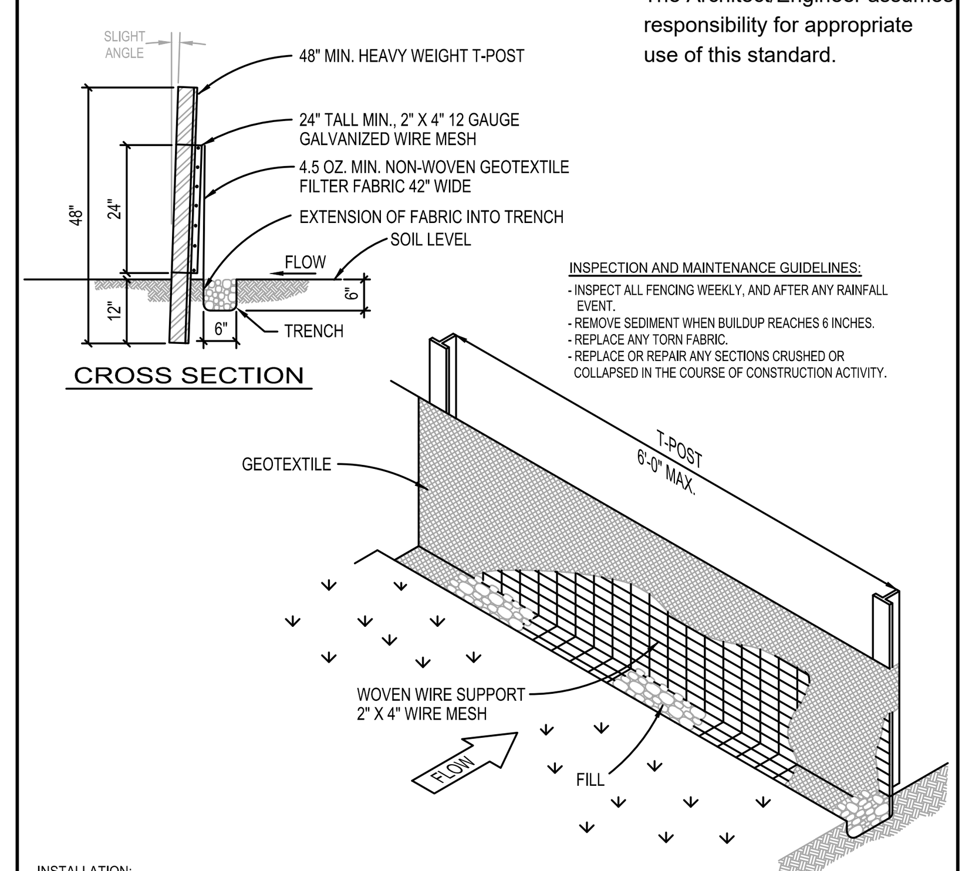
SHEET TITLE

EROSION & SEDIMENTATION CONTROL PLAN

SHEET NO.

04

V:\113598-00006\Civil\00-CAD\113598-00006-ES.dwg modified by jrusthoven on Nov 16, 23 4:42 PM



The Architect/Engineer assumes responsibility for appropriate use of this standard.

INSPECTION AND MAINTENANCE GUIDELINES:
- INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL EVENT.
- REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.
- REPLACE ANY TORN FABRIC.
- REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY.

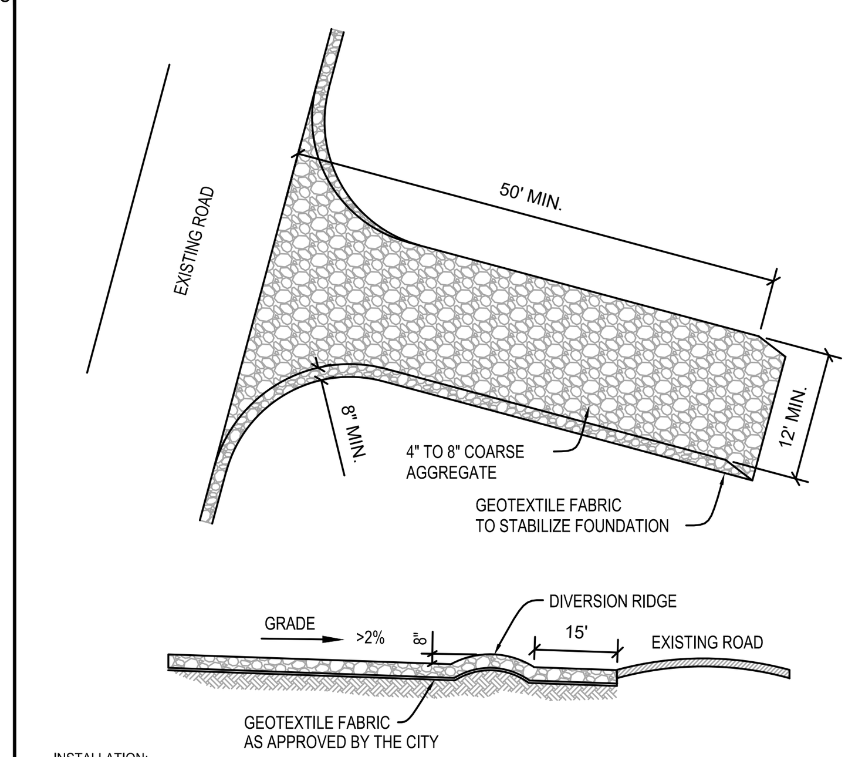
INSTALLATION:
- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF DEBRIS, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO PROVIDE A SMOOTH FLOW APPROACH SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON UPSTREAM SIDE OF FACE PER PLANS.
- DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
- ATTACH THE 2" X 4" 12 GAUGE WELDED WIRE MESH TO THE T-POST WITH 11 1/2 GAUGE GALVANIZED T-POST CLIPS. THE TOP OF THE WIRE TO BE 24" ABOVE GROUND LEVEL. THE WELDED WIRE MESH TO BE OVERLAPPED 6" AND TIED AT LEAST 6 TIMES WITH HOG RINGS.
- THE SILT FENCE TO BE INSTALLED WITH A SKIRT A MINIMUM OF 6" WIDE PLACED ON THE UPHILL SIDE OF THE FENCE INSIDE EXCAVATED TRENCH. THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1".
- ANCHOR THE SILT FENCE BY BACKFILLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
- GEOTEXTILE SPLICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPLICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

REVISION NOTE: *ADOPTED 6/21/2006*

GEORGETOWN TEXAS EST. 1848
Georgetown Utility Systems
Your Community Owned Utility

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SILT FENCE DETAIL

DRAWING NAME: EC02
SCALE: NTS DATE: 1/2003
DRAWN BY: MRS APPROVED BY: TRB



INSTALLATION:
- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE. RUNOFF FROM THE STABILIZED CONSTRUCTION
- PLACE GEOTEXTILE FABRIC AS APPROVED BY THE CITY.
- PLACE ROCK AS APPROVED BY THE CITY.

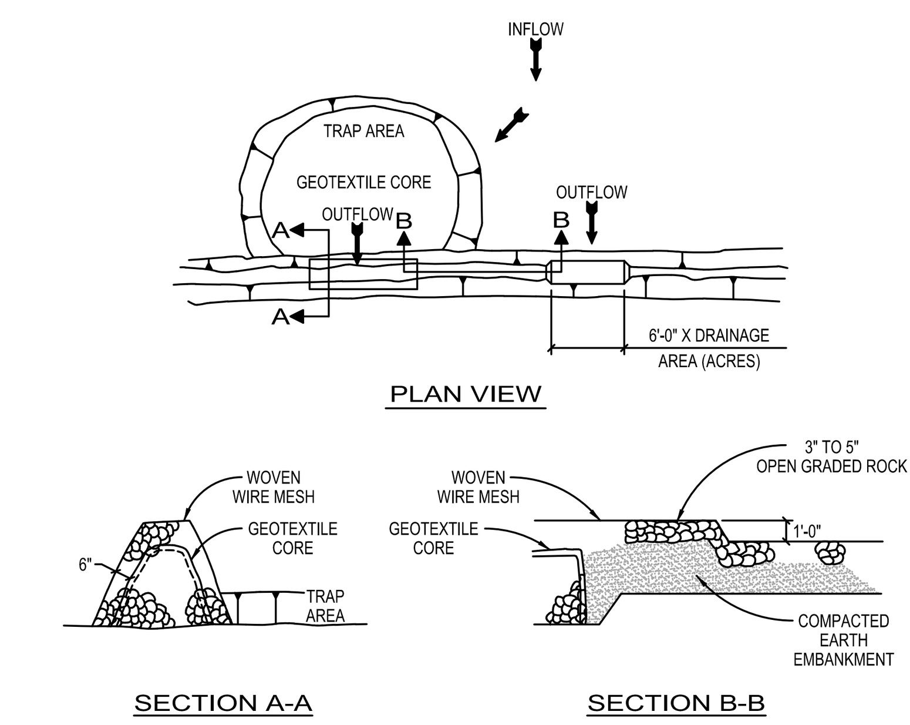
INSPECTIONS AND MAINTENANCE GUIDELINES:
- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

REVISION NOTE: *ADOPTED 6/21/2006*

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
STABILIZED CONSTRUCTION ENTRANCE

DRAWING NAME: EC06
SCALE: NTS DATE: 1/2003
DRAWN BY: MRS APPROVED BY: TRB



INSTALLATION:
- LOCATE THE SEDIMENT TRAP SO AS TO DISTURB AS FEW TREES AS POSSIBLE.
- CLEAR AND GRUB THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MATS.
- LAYOUT THE WIRE MESH AND THEN THE GEOTEXTILE FABRIC.
- CONSTRUCT THE GEOTEXTILE CORE AND CORRESPONDING ROCK EMBANKMENT TO THE DESIGNATED HEIGHT AND CONFIGURATION.
- WRAP THE STRUCTURE WITH THE PREVIOUSLY PLACED WIRE MESH SECURE ENOUGH SO THAT WHEN WALKED ACROSS THE STRUCTURE RETAINS IT'S SHAPE. SECURE WITH TIE WIRE.
- PLACE THE EMBANKMENT MATERIAL IN 8 TO 12 INCH LIFTS AND MACHINE COMPACT.

INSPECTION AND MAINTENANCE GUIDELINES:
- INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. REPAIR SHOULD BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
- TRASH AND OTHER DEBRIS SHOULD BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO HALF OF THE DESIGN DEPTH OF THE TRAP.
- SEDIMENT REMOVED FROM THE TRAP SHOULD BE DEPOSITED IN AN APPROVED SPOILS AREA AND IN SUCH A MANNER THAT IT WILL NOT CAUSE ADDITIONAL SILTATION.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

REVISION NOTE: *ADOPTED 6/21/2006*

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SEDIMENT TRAP DETAIL

DRAWING NAME: EC07
SCALE: NTS DATE: 1/2003
DRAWN BY: MRS APPROVED BY: TRB

GUIDELINES FOR DESIGN AND INSTALLATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS

TYPE OF STRUCTURE	REACH LENGTH	MAXIMUM DRAINAGE AREA	SLOPE
SILT FENCE	N/A	2 ACRES	0 - 10%
	200 FEET	2 ACRES	10 - 20%
	100 FEET	1 ACRE	20 - 30%
	50 FEET	1/2 ACRE	> 30%
TRIANGLE FILTER DIKE	100 FEET	1/2 ACRE	< 30% SLOPE
	50 FEET	1/4 ACRE	> 30% SLOPE
ROCK BERM *, **	500 FEET	< 5 ACRES	0 - 10%

* FOR ROCK BERM DESIGN WHERE PARAMETERS ARE OTHER THAN STATED, DRAINAGE AREA CALCULATIONS AND ROCK BERM DESIGN MUST BE SUBMITTED FOR REVIEW.

** HIGH SERVICE ROCK BERMS MAY BE REQUIRED IN AREAS OF ENVIRONMENTAL SIGNIFICANCE AS DETERMINED BY THE CITY OF GEORGETOWN.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

REVISION NOTE: *ADOPTED 6/21/2006*

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TEMPORARY EROSION AND SEDIMENTATION CONTROL GUIDELINES

DRAWING NAME: EC01
SCALE: NTS DATE: 1/2003
DRAWN BY: MRS APPROVED BY: TRB

NOTE: THIS SECTION IS INTENDED TO ASSIST THOSE PERSONS PREPARING WATER POLLUTION ABATEMENT PLANS (WPAP) OR STORM WATER POLLUTION PREVENTION PLANS (SW3P) THAT COMPLY WITH FEDERAL, STATE AND/OR LOCAL STORM WATER REGULATIONS.

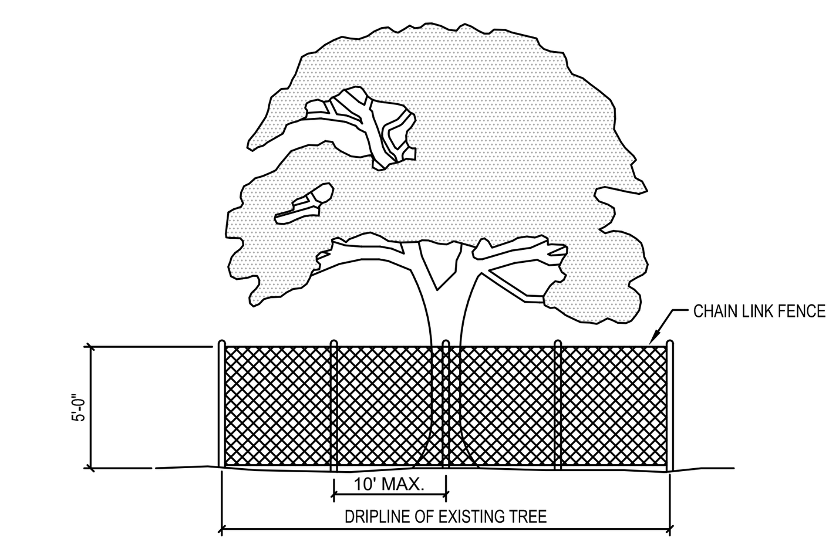
1. THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF PROJECT AND GRASS RESTORATION.
2. ALL PROJECTS WITHIN THE RECHARGE ZONE OF THE EDWARD'S AQUIFER SHALL SUBMIT A BEST MANAGEMENT PRACTICES AND WATER POLLUTION AND ABATEMENT PLAN TO THE TNRCC FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
3. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
4. ALL PLANTING SHALL BE DONE BETWEEN MAY 1 AND SEPTEMBER 15 EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING. IF PLANTING IS AUTHORIZED TO BE DONE OUTSIDE THE DATES SPECIFIED, THE SEED SHALL BE PLANTED WITH THE ADDITION OF WINTER FESCUE (KENTUCKY 31) AT A RATE OF 100lb/ACRE. GRASS SHALL BE COMMON BERMUDA GRASS, HULLED, MINIMUM 82% PURE LIVE SEED. ALL GRASS SEED SHALL BE FREE FROM NOXIOUS WEED, GRADE "A" RECENT CROP, RECLEANED AND TREATED WITH APPROPRIATE FUNGICIDE AT TIME OF MIXING. SEED SHALL BE FURNISHED IN SEALED, STANDARD CONTAINERS WITH DEALER'S GUARANTEED ANALYSIS.
5. ALL DISTURBED AREAS TO BE RESTORED AS NOTED IN THE WATER POLLUTION ABATEMENT PLAN.
6. THE PLANTED AREA TO BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF FOUR (4) INCHES. THE IRRIGATION TO OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS TO INSURE GERMINATION AND ESTABLISHMENT OF THE GRASS . RAINFALL OCCURRENCES OF 1/2 INCH OR GREATER TO POSTPONE THE WATERING SCHEDULE ONE WEEK.
7. RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 25 SQUARE FEET EXIST.
8. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL TO BE PLACED IN ALL AREAS DISTURBED BY CONSTRUCTION.
9. THE CONTRACTOR TO HYDROMULCH OR SOD (AS SHOWN ON PLANS) ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION.
10. EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIPLINE.
11. TO AVOID SOIL COMPACTION, CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DRIPLINE AREAS.
12. WHERE A FENCE IS CLOSER THAN FOUR (4) FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT (8) FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE FENCING.
13. TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
14. ANY ROOT EXPOSED BY CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
15. CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE "NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES").
16. THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING 1/4 INCH TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SPOIL DISPOSAL SITE. THE CONTRACTOR TO CONDUCT PERIODIC INSPECTIONS OF ALL EROSION/SEDIMENTATION CONTROLS AND TO MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
17. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT IMMEDIATELY ADJACENT TO A PROTECTED TREE, ERECT THE FENCE APPROXIMATELY TWO TO FOUR FEET (2'-4') BEHIND THE AREA IN QUESTION.
18. NO ABOVE AND/OR BELOW GROUND TEMPORARY FUEL STORAGE FACILITIES TO BE STORED ON THE PROJECT SITE.
19. IF EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER'S REPRESENTATIVE AND THE CONTRACTOR TO EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEMS FOR DAMAGE PRIOR TO CONSTRUCTION. ANY DAMAGE TO PREEXISTING EROSION AND SEDIMENTATION CONTROLS NOTED TO BE REPAIRED AT OWNERS EXPENSE.
20. INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DISPOSED OF PROPERLY.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

REVISION NOTE: *ADOPTED 6/21/2006*

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
EROSION AND SEDIMENTATION AND TREE PROTECTION NOTES

DRAWING NAME: EC01A
SCALE: NTS DATE: 1/2003
DRAWN BY: MRS APPROVED BY: TRB



NOTES:

1. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
2. FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES; WILL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DRIPLINE), AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
   B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
   C. WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
   D. OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
3. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
   A. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.

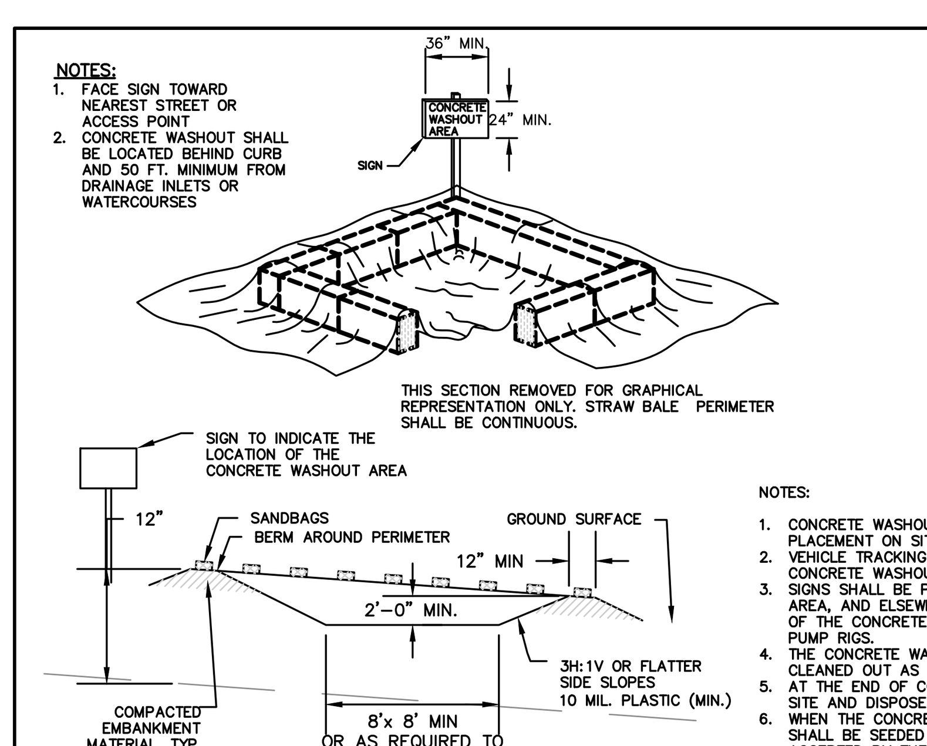
The Architect/Engineer assumes responsibility for appropriate use of this standard.

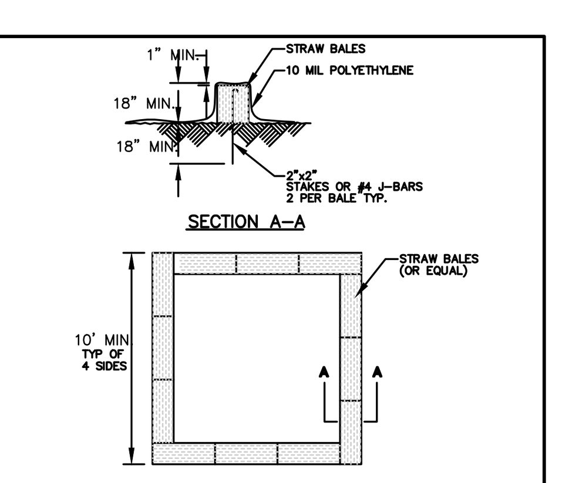
REVISION NOTE: *ADOPTED 6/21/2006*

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TREE PROTECTION - CHAIN LINK FENCE

DRAWING NAME: EC09
SCALE: NTS DATE: 1/2003
DRAWN BY: MRS APPROVED BY: TRB

NOTES:
1. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT
2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND CURB AND 50 FT. MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES





NOTES:
1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. VEHICLE TRACKING CONTROL (DETAIL SW-14) IS REQUIRED IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
3. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
4. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
5. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE.
6. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

CONCRETE WASH OUT AREA
N.T.S.

MarmonMok ARCHITECTURE
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Austin Tx • 900 E 6th St. Suite 105, 78702

11/16/2023

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TBPE # F-14629

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY
Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
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Revisions

SHEET TITLE
EROSION & SEDIMENTATION CONTROL PLAN DETAILS

SHEET NO.
05

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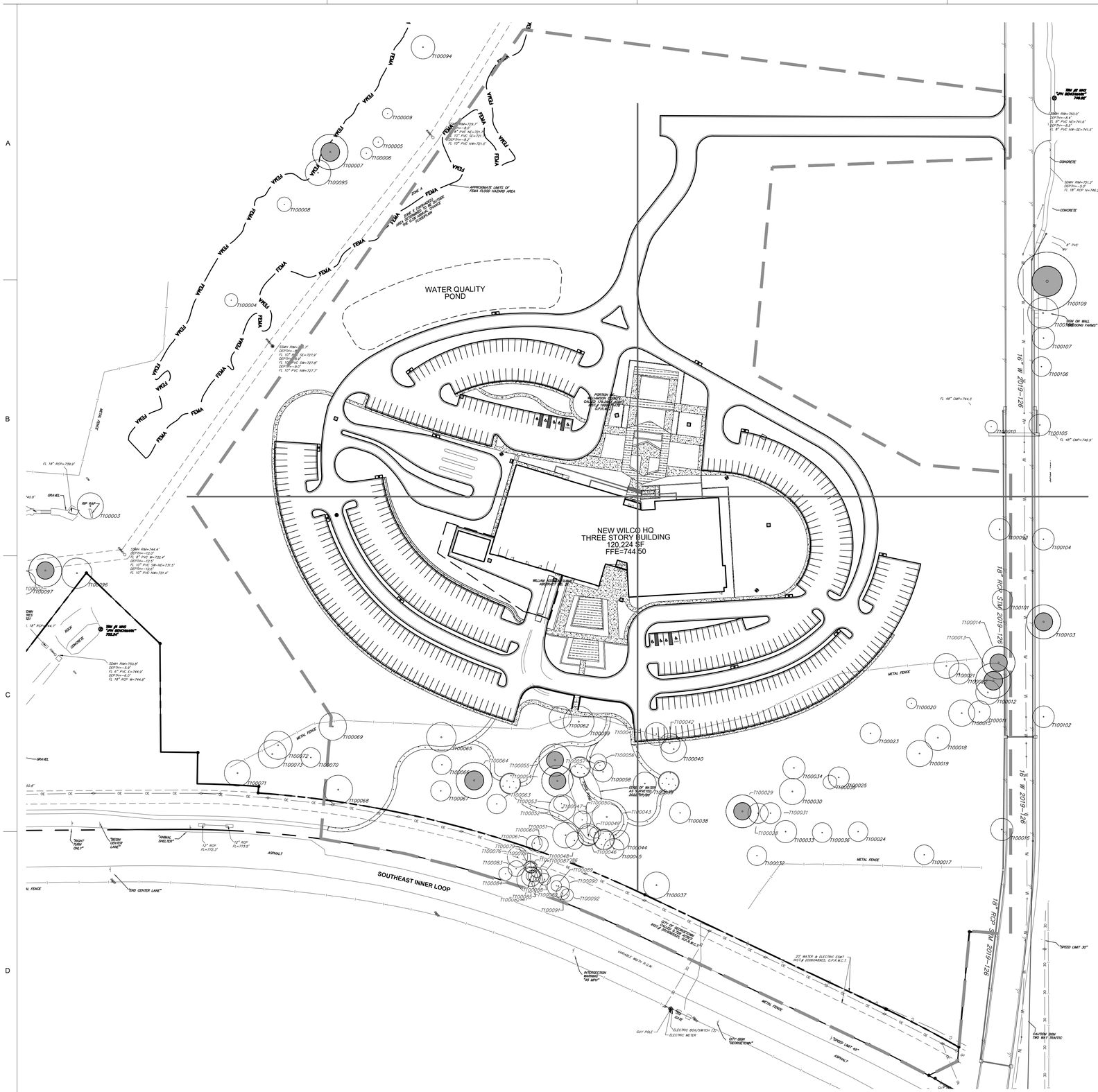

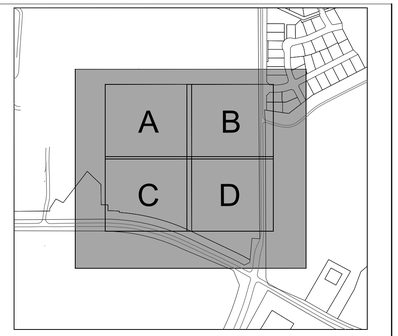

80 0 40 80 160

1" = 80'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
	E	ELECTRIC BOX
	E	ELECTRIC METER
	G	GAS METER
	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LANE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		WALL
		MULCH TRAIL
		PAVERS ON CONCRETE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
_R @ 9.0'	_R @ 9.0'	PARKING COUNT (REGULAR SPACES)
_HC @ 9.0'	_HC @ 9.0'	PARKING COUNT (HANDICAP SPACES)
_P @ 9.0'	_P @ 9.0'	PARKING COUNT (PARALLEL SPACES)
		HANDICAP SPACE
		BIKE PARKING
		BARRICADE
		LIMITS OF CONSTRUCTION

ACCESSIBILITY NOTES:

1. SLOPES ON ACCESSIBLE ROUTES SHALL COMPLY WITH TAS SECTION 402 INCLUDING A MAXIMUM CROSS SLOPE OF 1:48 AND MAXIMUM RUNNING SLOPE OF 1:20.
2. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH TAS SECTION 405.
3. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH TAS SECTION 403.
4. PAVERS IN ACCESSIBLE ROUTE SHALL BE NON-BEVELED TO MINIMIZE WHEELCHAIR VIBRATIONS.

GENERAL NOTES:

1. ALL DIMENSIONS TO THE CURBS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
2. FOR BICYCLE RACKS, BENCHES AND TREE WELL DETAILS NOTED ON THIS SITE SITE PLAN REFER TO THE LANDSCAPE SHEETS FOR THOSE SPECIFIC DETAILS.
3. ALL SITE PLAN NOTES ARE ON THE SITE PLAN DETAILS SHEET, SHEET 11.
4. REFER TO LANDSCAPE PLANS FOR STREETSCAPE/HARDSCAPE MATERIALS.
5. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE SITE PLAN REVISION OR CORRECTION AND APPROVAL OF THE CITY OF GEORGETOWN.
6. SCREENING FOR SOLID WASTE COLLECTION AND LOADING AREAS SHALL BE THE SAME AS, OR OF EQUAL QUALITY TO, PRINCIPAL BUILDING MATERIALS.

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ARCHITECTURE
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Austin Tx • 900 E 6th St Suite 105, 78702

STATE OF TEXAS
MAURICIO SILVEYRA
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PROFESSIONAL ENGINEER

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Date October 27, 2023

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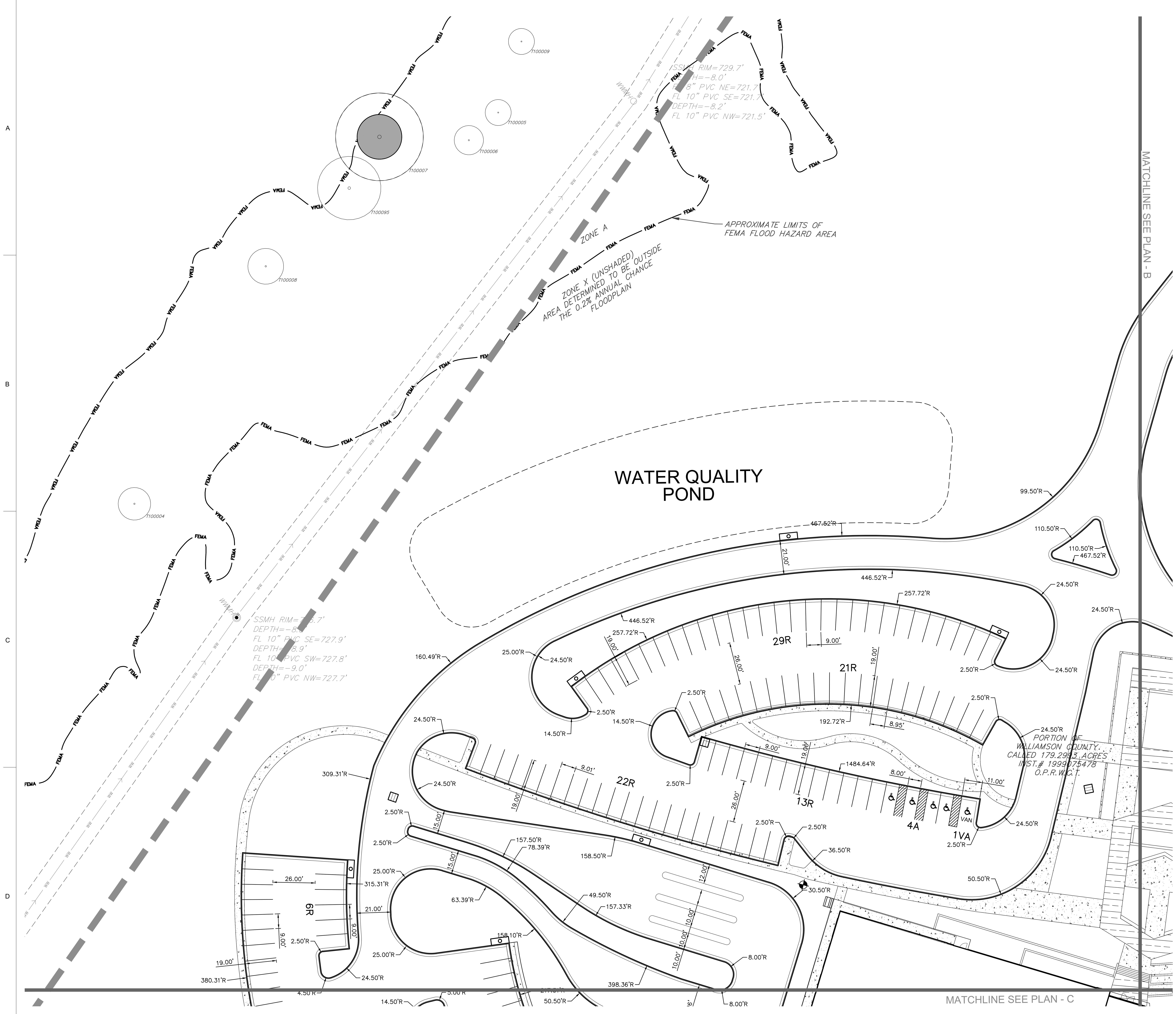
Revisions

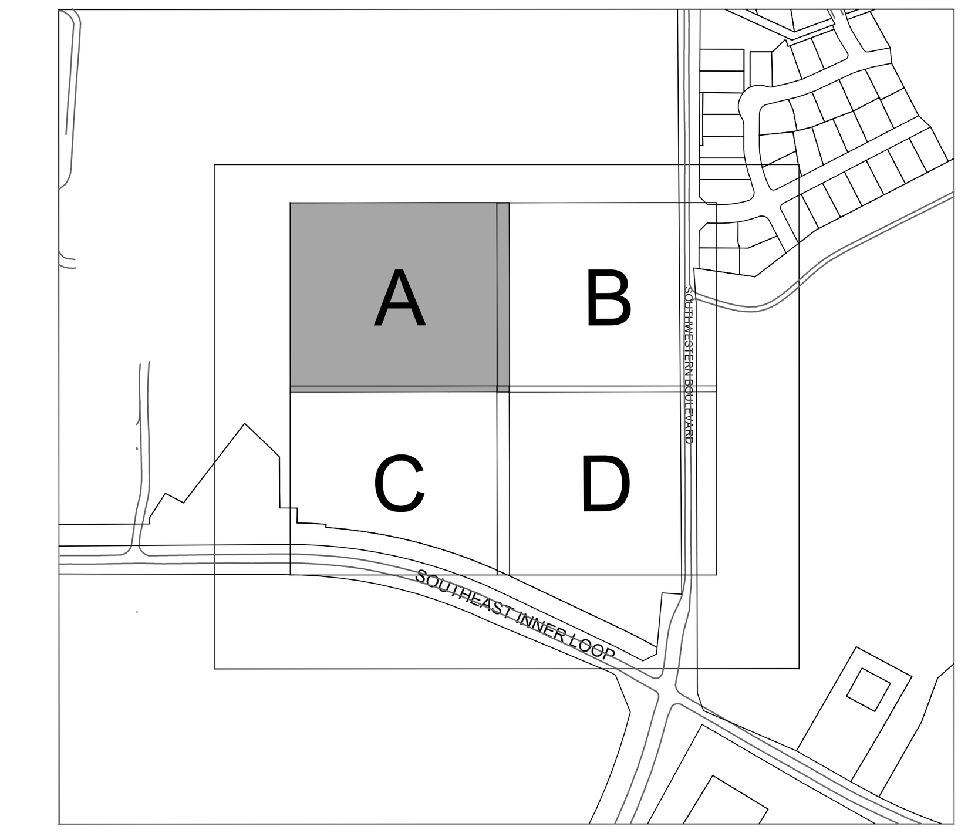
SHEET TITLE

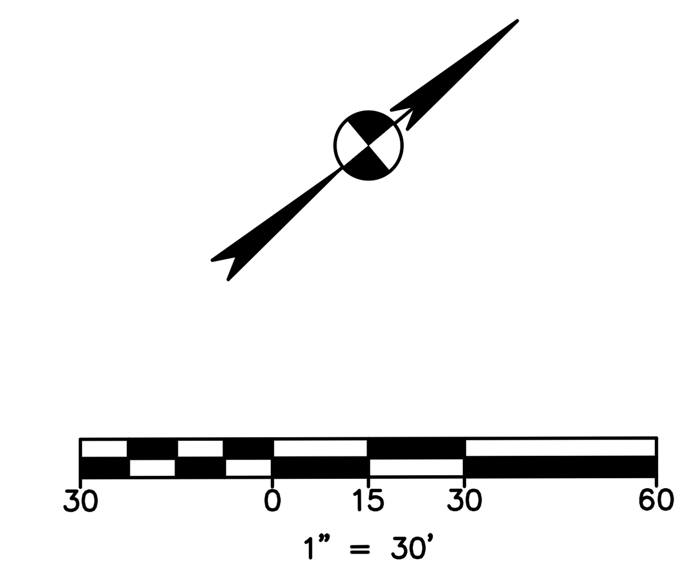
SITE PLAN

SHEET NO.

06







LEGEND

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		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LANE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		WALL
		MULCH TRAIL
		PAVERS ON CONCRETE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
_R @ 9.0'	_R @ 9.0'	PARKING COUNT (REGULAR SPACES)
_HC @ 9.0'	_HC @ 9.0'	PARKING COUNT (HANDICAP SPACES)
_P @ 9.0'	_P @ 9.0'	PARKING COUNT (PARALLEL SPACES)
♿	♿	HANDICAP SPACE
		BIKE PARKING
		BARRICADE
		LIMITS OF CONSTRUCTION

ACCESSIBILITY NOTES:

1. SLOPES ON ACCESSIBLE ROUTES SHALL COMPLY WITH TAS SECTION 402 INCLUDING A MAXIMUM CROSS SLOPE OF 1:48 AND MAXIMUM RUNNING SLOPE OF 1:20.
2. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH TAS SECTION 405.
3. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH TAS SECTION 403.
4. PAVERS IN ACCESSIBLE ROUTE SHALL BE NON-BEVELED TO MINIMIZE WHEELCHAIR VIBRATIONS.

GENERAL NOTES:

1. ALL DIMENSIONS TO THE CURBS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
2. FOR BICYCLE RACKS, BENCHES AND TREE WELL DETAILS NOTED ON THIS SITE SITE PLAN REFER TO THE LANDSCAPE SHEETS FOR THOSE SPECIFIC DETAILS.
3. ALL SITE PLAN NOTES ARE ON THE SITE PLAN DETAILS SHEET, SHEET 11.
4. REFER TO LANDSCAPE PLANS FOR STREETSCAPE/HARDSCAPE MATERIALS.
5. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE SITE PLAN REVISION OR CORRECTION AND APPROVAL OF THE CITY OF GEORGETOWN.
6. SCREENING FOR SOLID WASTE COLLECTION AND LOADING AREAS SHALL BE THE SAME AS, OR OF EQUAL QUALITY TO, PRINCIPAL BUILDING MATERIALS.

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STATE OF TEXAS
MAURICIO SILVEYRA
142987
LICENSED
PROFESSIONAL ENGINEER
[illegible]

11/16/2023

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TBPE # F-14629

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY

Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

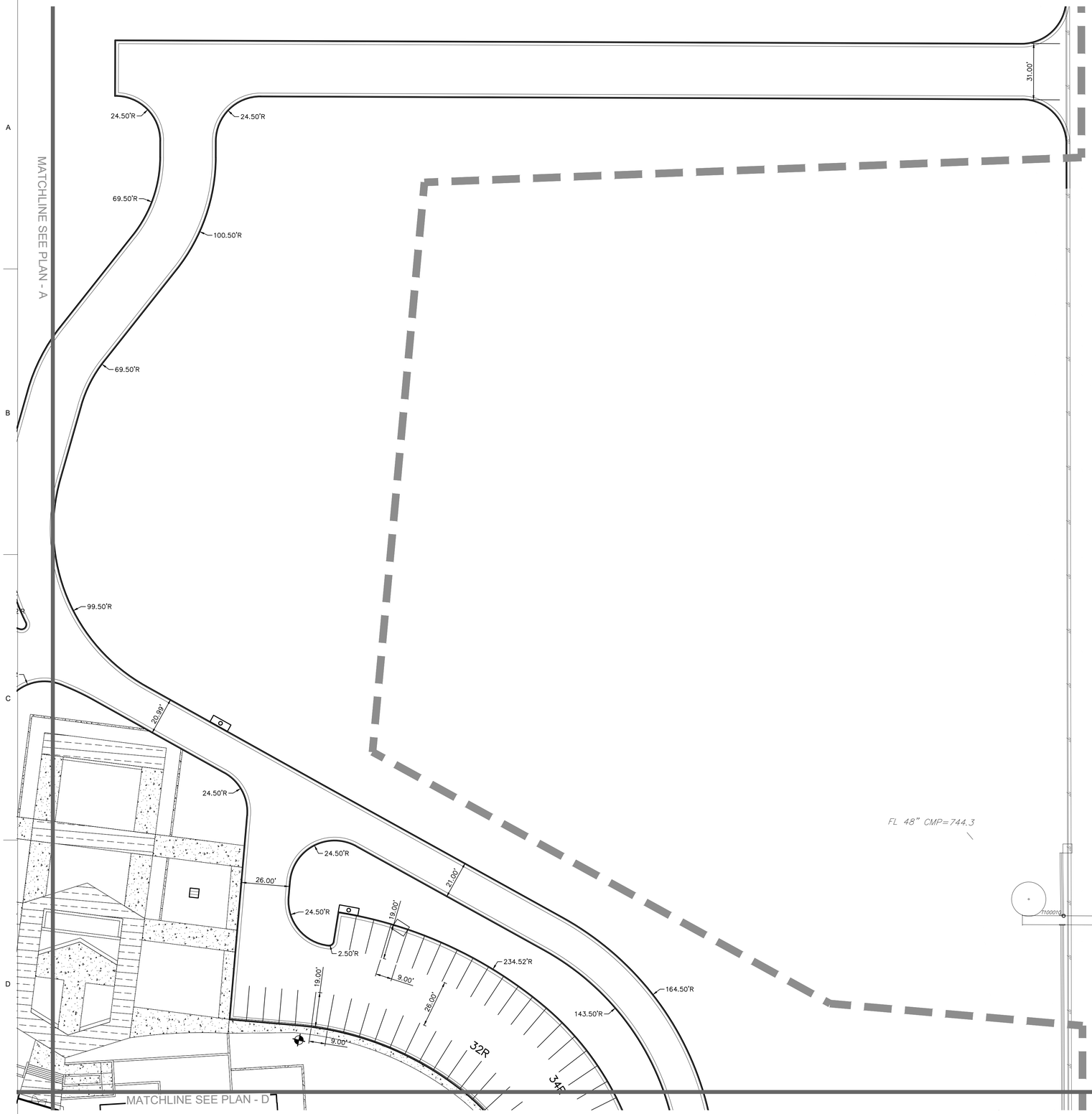
WILCO TEXAS

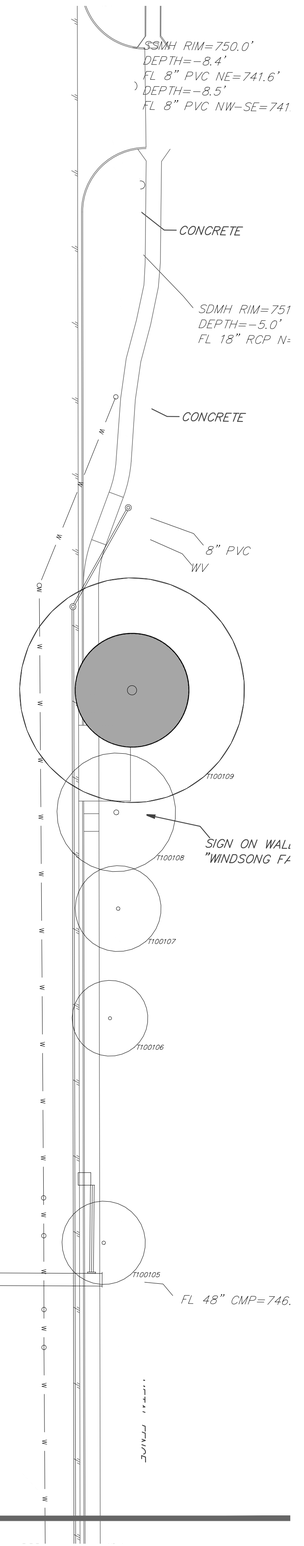
Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

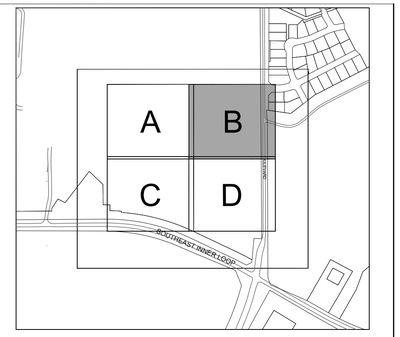
SHEET TITLE
SITE PLAN - A

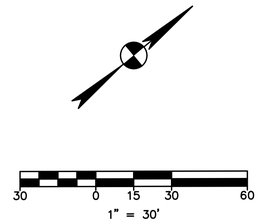
SHEET NO.
07

V:\113598-00006\Civil\00-CAD\113598-00006-SITE - A.dwg modified by jrusthoven on Nov 16, 23 4:22 PM









LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
UMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GSER		GAS RISER
TRSR		TELEPHONE RISER
SPK		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
	W	WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
	E	ELECTRIC BOX
	E	ELECTRIC METER
	G	GAS METER
	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSPo	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LANE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		WALL
		MULCH TRAIL
		PAVERS ON CONCRETE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
_R @ 9.0'	_R @ 9.0'	PARKING COUNT (REGULAR SPACES)
_HC @ 9.0'	_HC @ 9.0'	PARKING COUNT (HANDICAP SPACES)
_P @ 9.0'	_P @ 9.0'	PARKING COUNT (PARALLEL SPACES)
		HANDICAP SPACE
	BIKE NO RIDE	BIKE PARKING
		BARRICADE
		LIMITS OF CONSTRUCTION

ACCESSIBILITY NOTES:

1. SLOPES ON ACCESSIBLE ROUTES SHALL COMPLY WITH TAS SECTION 402 INCLUDING A MAXIMUM CROSS SLOPE OF 1:48 AND MAXIMUM RUNNING SLOPE OF 1:20.
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GENERAL NOTES:

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11/16/2023

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Georgetown, Tx. 78626

WILCO TEXAS

Drawn CU, JR

Checked MS, BB

Date October 27, 2023

Project No. 22020

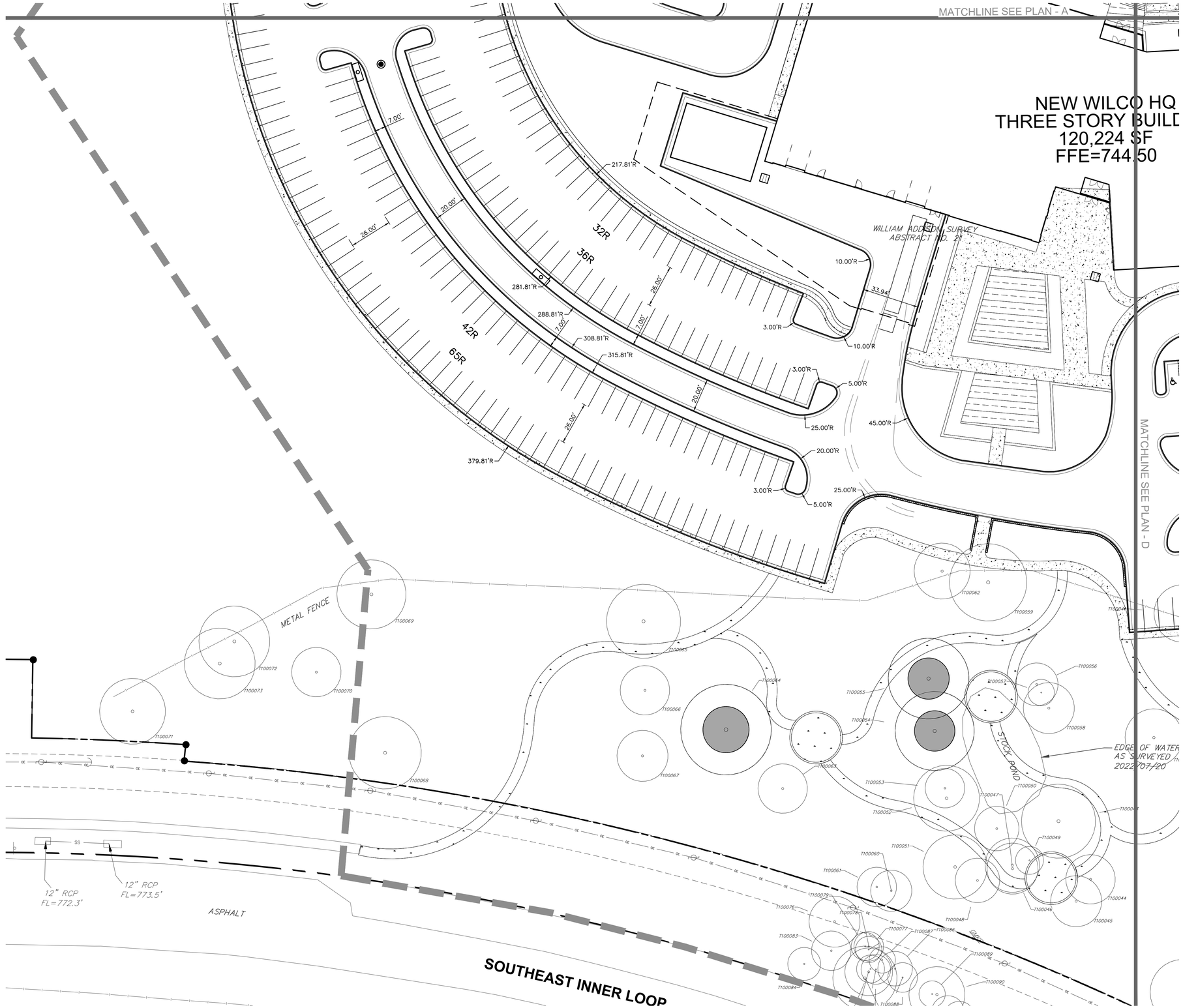
Revisions

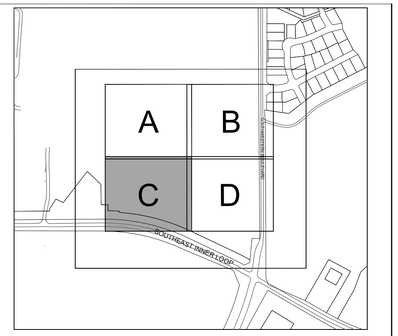
SHEET TITLE

SITE PLAN - B

SHEET NO.

08





30 0 15 30 60

1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
UMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPCI		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
		ELECTRIC BOX
		ELECTRIC METER
		GAS METER
		GAS VALVE
TCBX	TCBX	TRAFFIC CONTROL BOX
TSPX	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LANE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		WALL
		MULCH TRAIL
		PAVERS ON CONCRETE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
_R @ 9.0'	_R @ 9.0'	PARKING COUNT (REGULAR SPACES)
_HC @ 9.0'	_HC @ 9.0'	PARKING COUNT (HANDICAP SPACES)
_P @ 9.0'	_P @ 9.0'	PARKING COUNT (PARALLEL SPACES)
		HANDICAP SPACE
		BIKE PARKING
		BARRICADE
		LIMITS OF CONSTRUCTION

ACCESSIBILITY NOTES:

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11/16/2023

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WILCO TEXAS

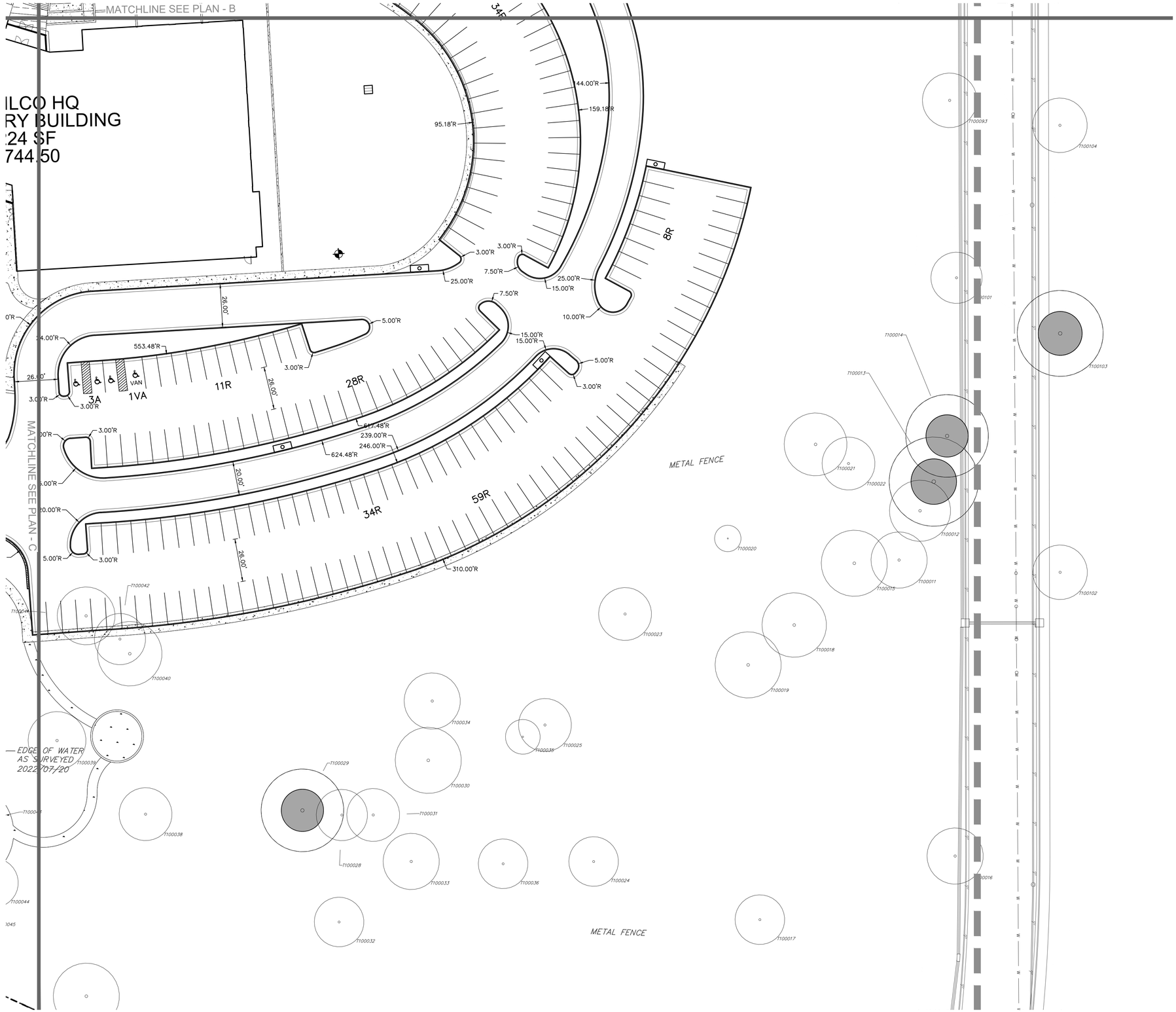
Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

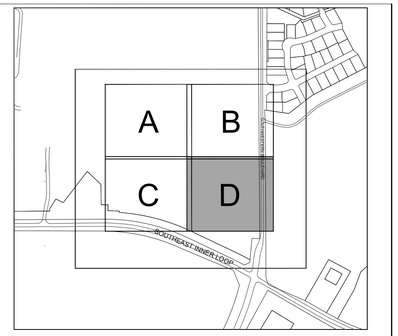
SHEET TITLE

SITE PLAN - C

SHEET NO.

09





30 0 15 30 60

1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(xxx)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GSR		GAS RISER
TSR		TELEPHONE RISER
SPR		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
	WM	WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
	E	ELECTRIC BOX
	EM	ELECTRIC METER
	GM	GAS METER
		GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSPo	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
COo	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LANE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		WALL
		MULCH TRAIL
		PAVERS ON CONCRETE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
_R @ 9.0'	_R @ 9.0'	PARKING COUNT (REGULAR SPACES)
_HC @ 9.0'	_HC @ 9.0'	PARKING COUNT (HANDICAP SPACES)
_P @ 9.0'	_P @ 9.0'	PARKING COUNT (PARALLEL SPACES)
		HANDICAP SPACE
		BIKE PARKING
		BARRICADE
		LIMITS OF CONSTRUCTION

ACCESSIBILITY NOTES:

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Revisions

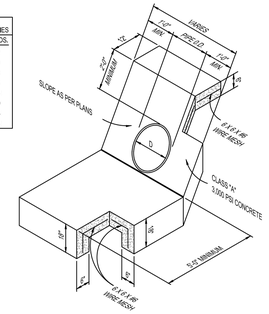
SHEET TITLE

SITE PLAN - D

SHEET NO.

10

MINIMUM RIP-RAP QUANTITIES	
PIPE	SQ. YDS.
18"	6.2
24"	6.9
27"	7.8
30"	9.5
36"	10.4
42"	12.0
48"	14.3
54"	16.4

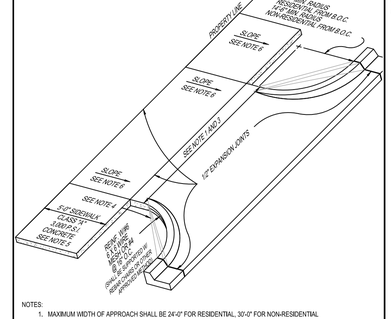


NOTES:
1. WHEN HEADWALLS AND WINGWALLS ARE REQUIRED, THEY SHALL CONFORM TO THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS, OR AS DIRECTED BY THE CITY.
2. ENERGY DISSIPATERS SHALL BE REQUIRED IF PIPE VELOCITY IS GREATER THAN 5.0 F.P.S. OR AS DIRECTED BY THE CITY OF GEORGETOWN.
3. SUPPORT REINFORCING WIRE MESH REQUIRED AS SUPPORT FOR APPROACH SLAB AND SHALL BE SUPPORTED BY REBAR CHAIRS OR OTHER APPROVED METHODS.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TYPICAL CONCRETE RIP-RAP AT PIPE
SD19
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB



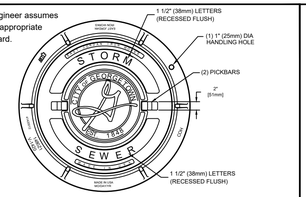
NOTES:
1. MAXIMUM WIDTH OF APPROACH SHALL BE 24'-0" FOR RESIDENTIAL, 30'-0" FOR NON-RESIDENTIAL UNDIVIDED AND 45'-0" FOR NON-RESIDENTIAL DIVIDED.
2. DRIVEWAY PERMITS SHALL BE ACQUIRED FROM CITY INSPECTION OFFICE.
3. MINIMUM WIDTH OF APPROACH SHALL BE 10'-0" FOR RESIDENTIAL AND 15'-0" FOR NON-RESIDENTIAL.
4. LINEAR "RADIUS" AT CORNERS, PERMITTED FOR "SINGLE FAMILY" OR "TWO FAMILY" RESIDENTIAL DRIVEWAY APPROACH.
5. SIDEWALK LOCATION SHALL BE APPROVED BY CITY ENGINEER PRIOR TO FINAL DESIGN.
6. SLOPE 1/8" PER FOOT USUAL, SHALL NOT EXCEED 2.0%.
7. DRIVEWAY APPROACH THICKNESS SHALL BE A MIN. OF 6".

The Architect/Engineer assumes responsibility for appropriate use of this standard.

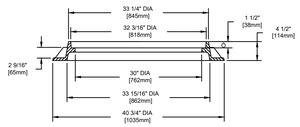
REVISED 6/25/2015 WBD
ADOPTED 6/21/2006 TRB

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
CONCRETE DRIVEWAY APPROACH TYPICAL
SD15
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB

The Architect/Engineer assumes responsibility for appropriate use of this standard.



COVER SECTION



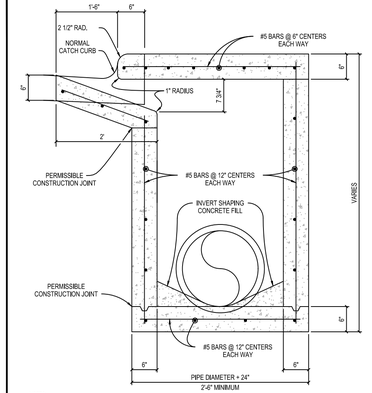
FRAME SECTION

NOTES:
1. STANDARD STORM SEWER MANHOLE SET TO BE EAST JORDAN IRON WORKS, INC. CATALOG NO. 1480A V-1420/1480Z/1, COVER TO BE STAMPED WITH "STORM SEWER".
2. STANDARD STORM SEWER MANHOLE SET TO BE HEAVY DUTY LOAD RATED.
3. FOR MORE DETAILED SPECIFICATIONS REFER TO EAST JORDAN IRON WORKS, INC. REFERENCE PRODUCT DRAWING 41420012.00148391.
4. FOR BOLTED STORM SEWER MANHOLE SET REFER TO DETAIL SD11A.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
STANDARD STORM SEWER MANHOLE SET
SD11
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB



NOTES:
1. ALL CONCRETE SHALL BE CLASS "A" 3,000 PSI CONCRETE.
2. STORM SEWER PIPE MATERIAL TO BE R.C.P. (CLASS III) UNLESS OTHERWISE APPROVED BY THE CITY OF GEORGETOWN.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
CURB DRAIN INLET TYPICAL SECTION
SD10
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB

SPILL CURB

CATCH AND LAYDOWN CURB

CURB DOWEL DETAIL

NOTES:
1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, GRADE 60 AND TO A SMOOTH FINISH EXPOSED SURFACES.
2. CONTRACTION JOINT SPACING 10' MAX.
3. EXPANSION JOINTS AS PER STD. ASTM D-1752.
4. 1/2" EXPANSION JOINT MATERIAL SHALL BE PROVIDED WHERE CURB IS ADJACENT TO SIDEWALK OR RIP-RAP.
5. TRANSITIONS BETWEEN CURBS OR DIFFERING CROSS SECTIONS SHALL OCCUR OVER A 20 FOOT LENGTH AS APPROVED BY THE ENGINEER OR THE CITY OF GEORGETOWN.
6. ALL CONCRETE SHALL BE CLASS A, 3000 PSI.
7. ALL SURFACES THAT ARE CHIPPED OR OTHERWISE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED.
8. THE FOLLOWING SCHEME OF REINFORCEMENT SHALL BE REQUIRED. THE MANNER OF PLACEMENT AND LOCATION SHALL BE TO THE SATISFACTION OF THE ENGINEER OR THE CITY OF GEORGETOWN.
   A. ALL CURB AND GUTTER (REINFORCED) SHALL HAVE TWO #4 LONGITUDINAL REINFORCING BARS.
9. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 15 INCH.
10. REINFORCING BARS SHALL BE SUPPORTED WITH REBAR CHAIRS OR OTHER APPROVED METHODS.
11. REBAR SUPPORTS ARE NOT REQUIRED ON MACHINE PLACED CURB PROVIDED THAT REBAR IS PROPERLY GUIDED INTO THE CURB SECTION.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
CURB AND GUTTER DETAILS
SD06
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB

TYPE C - AS REQUIRED FOR SINGLE FAMILY, DUPLEXES AND TOWNHOUSES, TRIPLEXES AND QUADRAPLEXES.
TYPE E - AS REQUIRED FOR MULTI-FAMILY, OTHER NON-RESIDENTIAL USES AND PARKING LOTS/STRUCTURES.
ALL THOROUGHFARES (COLLECTOR AND ABOVE) REQUIRE TYPE II.

NOTES:
1. STANDARD LOCATION OF SIDEWALK SHALL BE IN CONFORMANCE WITH THE UDC.
2. SIDEWALK SHALL CONFORM TO CURRENT TDLR/TAS STANDARDS..
3. ALL SIDEWALKS SHALL BE SUBMITTED AND APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND ENGINEER OF RECORD..
4. ANY VARIANCE IN TEXTURE, GRADE OR ALIGNMENT SHALL BE APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND BY THE CITY ENGINEER.
5. SLIP DOWEL SHALL BE INSTALLED AT EVERY LONGITUDINAL EXPANSION JOINT (UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER DURING ENGINEERING PLAN REVIEW PRIOR TO FINAL DESIGN).

The Architect/Engineer assumes responsibility for appropriate use of this standard.

REVISED 6/25/2015 WBD
ADOPTED 6/21/2006 TRB

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SIDEWALK SECTION AND JOINT DETAIL
SD14
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB

MANHOLE PLAN

CITY OF GEORGETOWN NOTES:

MANHOLE DETAILS SHALL REFLECT THE CITY'S MINIMUM SPECIFICATIONS, AS STATED BELOW:

A. ALL MANHOLES SHALL BE 48" I.D., R.C.P., CLASS III, WITH RUBBER O-RING GASKET JOINTS CONFORMING TO ASTM C478, C433 AND C76.
B. ALL MANHOLES SHALL HAVE FRAME AND COVER, AS MANUFACTURED BY EAST JORDAN IRON WORKS (AS PER DETAIL # WW-07) OR APPROVED EQUIVALENT.
C. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON FRAME AND COVER.
D. ALL MANHOLES SHALL HAVE AN ECCENTRIC CONE.
E. MANHOLES MAY HAVE A FLAT LID, IF APPROVED BY CITY OF GEORGETOWN, BEING 12" THICK WITH A MINIMUM 30" OPENING, AS MANUFACTURED BY CALVERT CONCRETE OR APPROVED EQUAL M.F.G. CONFORMING TO ASTM C478, 5000 P.S.I. CONCRETE. TRAFFIC BEARING, AND O-RING JOINT CONFORMING TO ASTM C443.
F. INVERTS AND FLEXIBLE SEAL BOOTS, PER ASTM C-923, SHALL BE CAST INTO BASE SECTION.
G. MINIMUM DROP BETWEEN INVERTS SHALL BE ONE-TENTH OF A FOOT (0.1').
H. GRADE RINGS WITH AN I.D. TO MATCH FRAMES CLEAR OPENING WITH A MAXIMUM OF FIVE (5) GRADE RINGS ARE ALLOWED.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
STANDARD STORM SEWER MANHOLE PLAN
SD12
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB

FRONT ELEVATION

NOTES:
1. ALL CONCRETE SHALL BE CLASS "A" 3,000 PSI CONCRETE.
2. STORM SEWER PIPE MATERIAL TO BE R.C.P. (CLASS III) UNLESS OTHERWISE APPROVED BY THE CITY OF GEORGETOWN.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
CURB INLET DETAIL
SD09
SCALE: NTS | DATE: 1/2003
DESIGNED: MRS | DRAWN: TRB

EXISTING IMPERVIOUS COVER:	Building-	0 s.f.
	Pavement/Sidewalk-	0 s.f.
	Total-	0 s.f. (0 ac.)
PROPOSED IMPERVIOUS COVER:	Building-	47,931 s.f.
	Pavement/Sidewalk-	334,906 s.f.
	Total-	382,837 s.f. (8.8 ac.)
		8.8 acres/ 28.84 acres*100 = 30.51%

PARKING SUMMARY TABLE		
REQUIRED PARKING	**RATIO**	**TOTAL**
Office	1 space per 250 SQFT GFA	481
ADA		9
TOTAL REQUIRED		**481**
PARKING PROVIDED		
STANDARD		472
ADA VAN		2
ADA REGULAR		7
TOTAL PROVIDED		**481**

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11/16/2023

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Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

Drawn CU, JR
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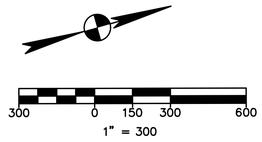
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE

SITE PLAN DETAILS

SHEET NO.

11



LEGEND

EXISTING	DESCRIPTION
	PROPERTY (R.O.W.) LINE
678	CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE DIVIDE
	DIRECTION OF FLOW
E1 1.03 AC.	DRAINAGE AREA NUMBER AND ACREAGE

Area:	Enter DA Name Here							
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type	Acres	SF	%
Acres	49.01	49.01	49.01	49.01	49.01	*Agricultural lands - [GOOD] Grassland, or range-continuous forage for grazing*	48.34	2,105,690	98.63
CN	80.00	80.00	80.00	80.00	80.00	*Impervious Areas - Paved; open ditches (including right of way)*	0.67	29,185	1.37
Tc	12.68	12.68	12.68	12.68	12.68		0.00	0	0.00
Q						**Total**	**49.01**	**2,134,876**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Agricultural lands	[GOOD] Grassland, or range-continuous forage fc	**D**	80.00	48.34
2.	Impervious Areas	Paved; open ditches (including right of way)	**D**	89.00	0.67
3.				0.00	
				80.00	49.01

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		1927.52	46			
Select Surface Type:	Asphalt		*N/A*	*N/A*			
Manning's (n)	0.016	0.000			0.000	0.000	
Change in Elevation (ΔE)	2.60		62.18	2.04			
Slope=ΔE/L	0.0260	0.0000	0.0323	0.0443	0.0000	0.0000	
Tc	1.42	0.00	11.09	0.18	0.00	0.00	**12.68**

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WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE

EXISTING DRAINAGE AREA MAP

SHEET NO.

12

LEGEND

EXISTING	DESCRIPTION
	PROPERTY (R.O.W.) LINE
678	CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE DIVIDE
	DIRECTION OF FLOW
E1 1.03 AC.	DRAINAGE AREA NUMBER AND ACREAGE

Area:	P1					
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type
Acres	12.77	12.77	12.77	12.77	12.77	*Open space lawns parks golf courses cemeteries - Good condition (grass cover 75%)*
CN	92.00	92.00	92.00	92.00	92.00	*Impervious Areas - Paved; curbs and storms drains (excluding right of way)*
Tc	12.65	12.65	12.65	12.65	12.65	
Q						**Total**

Acres	SF	%
4.50	196,020	35.24
8.27	360,241	64.76
0.00	0	0.00
12.77	**556,261**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Open space lawns parks golf courses cemeteries	Good condition (grass cover 75%)	D	80.00	4.50
2.	Impervious Areas	Paved; curbs and storms drains (excluding right of	D	98.00	8.27
3.				0.00	
				92.00	12.77

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100			235	760		
Select Surface Type:	Woods, Light		N/A	N/A	Concrete		
Manning's (n)	0.400	0.000			0.012	0.000	
Change in Elevation (ΔE)	13.00			12.00	5.00		
Slope=ΔE/L	0.1300	0.0000	0.0000	0.0511	0.0065	0.0000	
Tc	9.80	0.00	0.00	0.85	2.00	0.00	12.65

Channel Flow Parameters		
Pipe Diameter (ft):	2	
Velocity:	6.330	ft/s
Channel Area (sf):		
Channel Perimeter (ft):		
Velocity:	0.000	ft/s

Area:	P2					
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type
Acres	0.53	0.53	0.53	0.53	0.53	*Impervious Areas - Paved; curbs and storms drains (excluding right of way)*
CN	98.00	98.00	98.00	98.00	98.00	
Tc	5.00	5.00	5.00	5.00	5.00	
Q						**Total**

Acres	SF	%
0.53	23,087	100.00
0.00	0	0.00
0.00	0	0.00
0.53	**23,087**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Impervious Areas	Paved; curbs and storms drains (excluding right of	D	98.00	0.53
2.				0.00	
3.				0.00	
				98.00	0.53

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100			569			
Select Surface Type:			N/A	N/A			
Manning's (n)	0.000	0.000			0.000	0.000	
Change in Elevation (ΔE)	6.00			11.00			
Slope=ΔE/L	0.0600	0.0000	0.0000	0.0193	0.0000	0.0000	
Tc	0.00	0.00	0.00	3.36	0.00	0.00	3.36

Channel Flow Parameters		
Pipe Diameter (ft):		
Velocity:	0.000	ft/s
Channel Area (sf):		
Channel Perimeter (ft):		
Velocity:	0.000	ft/s

Area:	P3					
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Cover Description & Type
Acres	71.42	71.42	71.42	71.42	71.42	*Agricultural lands - [GOOD] Brush—brush-weed-grass mixture with brush the major element*
CN	0.00	0.00	0.00	0.00	0.00	
Tc	35.29	35.29	35.29	35.29	35.29	
Q						**Total**

Acres	SF	%
35.71	1,555,528	50.00
0.00	0	0.00
35.71	1,555,528	50.00
71.42	**3,111,055**	**100**

	Select Cover Description	Select Cover Type	Hydrologic Soil Group	CN	Input Area (ac)
1.	Agricultural lands	[GOOD] Brush—brush-weed-grass mixture with b	D	73.00	35.71
2.				0.00	
3.				0.00	
				73.00	35.71

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		2845				
Select Surface Type:	Woods, Light		N/A	N/A			
Manning's (n)	0.400	0.000			0.000	0.000	
Change in Elevation (ΔE)	3.50		70.00				
Slope=ΔE/L	0.0350	0.0000	0.0246	0.0000	0.0000	0.0000	
Tc	16.56	0.00	18.74	0.00	0.00	0.00	35.29

Channel Flow Parameters		
Pipe Diameter (ft):		
Velocity:	0.000	ft/s
Channel Area (sf):		
Channel Perimeter (ft):		
Velocity:	0.000	ft/s

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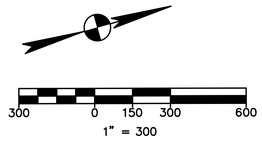
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE
PROPOSED DRAINAGE AREA MAP

SHEET NO.
13



LEGEND

EXISTING	DESCRIPTION
	PROPERTY (R.O.W.) LINE
678	CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE DIVIDE
	DIRECTION OF FLOW
E1 1.03 AC.	DRAINAGE AREA NUMBER AND ACREAGE

Area:	P2-OFF								
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Surface	Acres	SF	%
Acres	34.48	34.48	34.48	34.48	34.48	*Grass, Fair, 2-7%*	34.48	1,501,949	100.00
C	0.33	0.38	0.42	0.49	0.58				
Tc	18.17	18.17	18.17	18.17	18.17				
I	3.87	5.76	7.41	9.35	12.20				
Q	**44.0**	**75.5**	**107.3**	**158.0**	**244.1**	**Total**	**34.48**	**1,501,949**	**100**

Area:	E1-OFF								
Event	2-yr	10-yr	25-yr	100-yr	500-yr	Surface	Acres	SF	%
Acres	109.25	109.25	109.25	109.25	109.25	*Grass, Fair, 2-7%*	107.51	4,683,136	98.41
C	0.34	0.39	0.43	0.50	0.59	*Asphalt*	1.74	75,794	1.59
Tc	28.39	28.39	28.39	28.39	28.39				
I	3.05	4.56	5.92	7.46	9.83				
Q	**112.2**	**192.7**	**276.0**	**405.5**	**629.8**	**Total**	**109.25**	**4,758,930**	**100**

	Select Surface Type:	Input Area (ac)
1.	Grass, Fair, 2-7%	34.48
2.		
3.		
4.		
		6.98

	Select Surface Type:	Input Area (ac)
1.	Grass, Fair, 2-7%	107.51
2.	Asphalt	1.74
3.		
4.		
		0.69

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		1302.35				
Select Surface Type:	Short-grass prairie		N/A	N/A			
Manning's (n)	0.150						
Change in Elevation (ΔE)	2.00		31.00				
Slope=ΔE/L	0.0200		0.0238				
Tc	9.45		8.72				**18.17**

Channel Flow Parameters	
Pipe Diameter (ft):	
Velocity:	
Channel Area (sf):	
Channel Perimeter (ft):	
Velocity:	

	Sheet Flows		Shallow Concentrated Flow		Channel Flow		Sum
			Unpaved	Paved	Pipe Flow	Open Channel	
Length (L)	100		2564.9				
Select Surface Type:	Short-grass prairie		N/A	N/A			
Manning's (n)	0.150						
Change in Elevation (ΔE)	1.00		71.00				
Slope=ΔE/L	0.0100		0.0277				
Tc	12.47		15.92				**28.39**

Channel Flow Parameters	
Pipe Diameter (ft):	
Velocity:	
Channel Area (sf):	
Channel Perimeter (ft):	
Velocity:	

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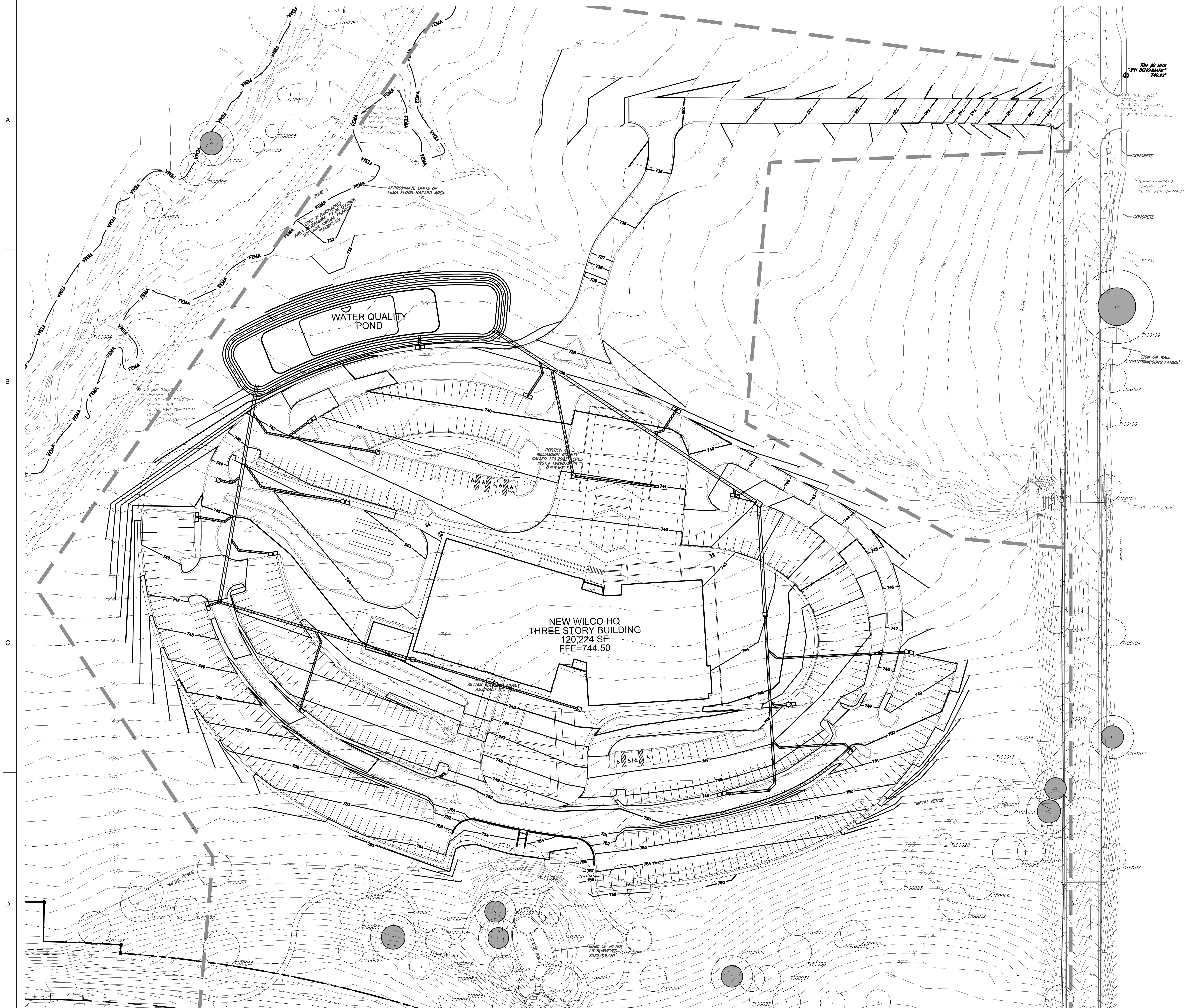
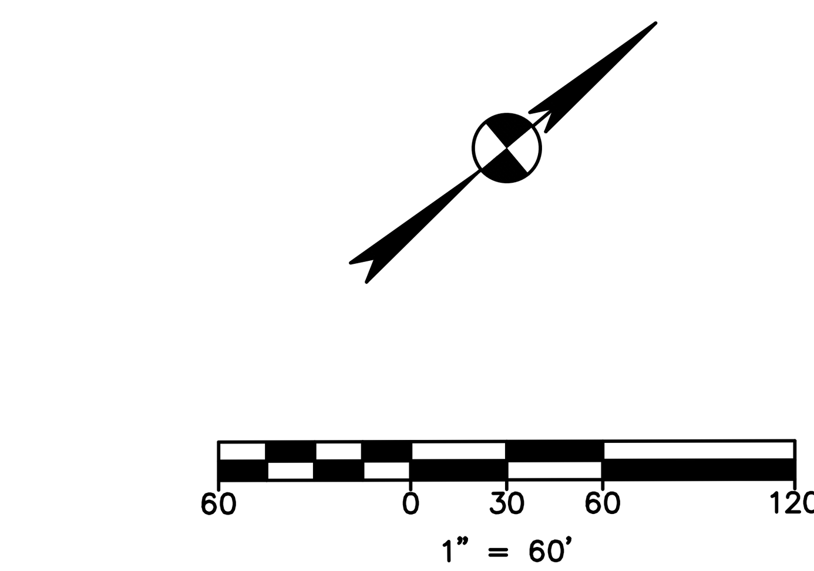
SHEET TITLE
EXISTING OFFSITE DRAINAGE AREA MAP

SHEET NO.
14


WATER QUALITY POND
NEW WILCO HQ
THREE STORY BUILDING
120,224 SF
FFE=744.50
PORTION OF WILLIAMSON COUNTY CALLED 179.2993 ACRES INST.# 1999075478 O.P.R.W.C.T.
WILLIAM ADDISON SURVEY ABSTRACT NO. 21
APPROXIMATE LIMITS OF FEMA FLOOD HAZARD AREA
ZONE A
ZONE X (UNSHADED) AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
TBM #2 MNS "JPH BENCHMARK" 749.92'
SSMH RIM=750.0' DEPTH=-8.4' FL 8" PVC NE=741.6' DEPTH=-8.5' FL 8" PVC NW-SE=741.5'
SDMH RIM=751.2' DEPTH=-5.0' FL 18" RCP N=746.2'
CONCRETE
8" PVC WV
SIGN ON WALL "WINDSONG FARMS"
FL 48" CMP=744.3
FL 48" CMP=746.9'
METAL FENCE
STOCK POND
EDGE OF WATER AS SURVEYED 2022/07/20
12" RCP



LEGEND

EXISTING	PROPOSED	DESCRIPTION
— — —		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH ●		WATER MANHOLE
○		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
TV	TV	CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH○		ELECTRIC MANHOLE (SIZE VARIES)
WWMH○		WASTEWATER MANHOLE (SIZE VARIES)
SSMH○		STORMSEWER MANHOLE (SIZE VARIES)
TMH○	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	●CO	WASTEWATER CLEANOUT
x	x	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1111		TREE TO BE SAVED
1111		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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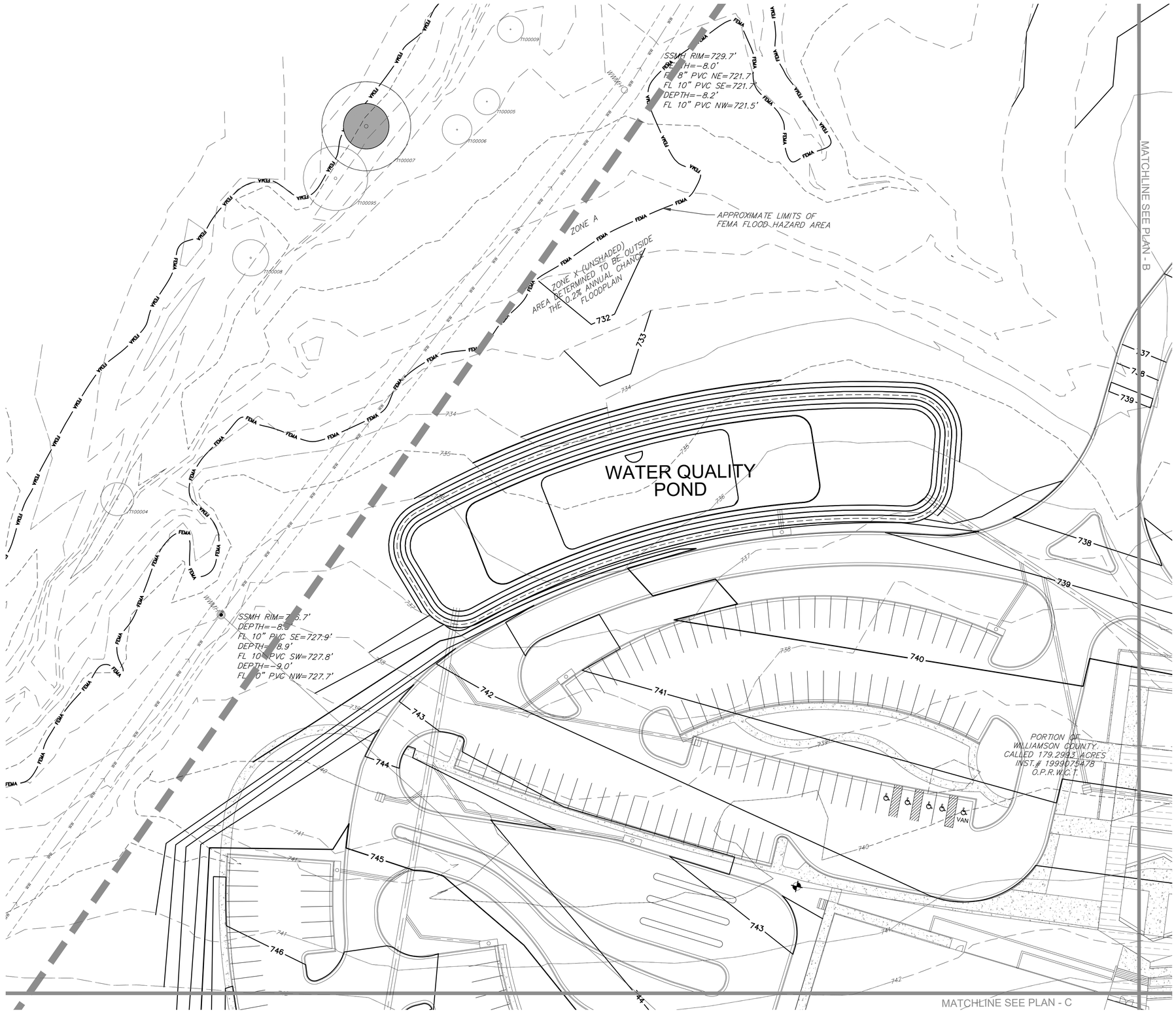
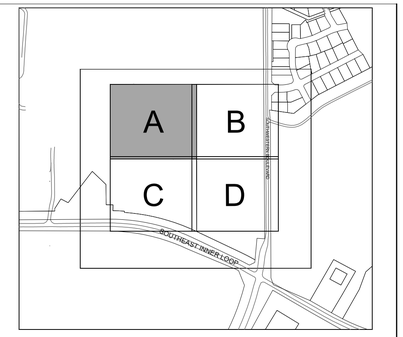
SHEET TITLE
MASTER GRADING PLAN

SHEET NO.
15





30 0 15 30 60

1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMCR		UNDERGROUND CABLE MARKER
GMCR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPCB		SPRINKLER CONTROL BOX
	SG	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
	E	ELECTRIC BOX
	EM	ELECTRIC METER
	GM	GAS METER
		GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSPx	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CON	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
UT	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
	BIKE RACKS	BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1311		TREE TO BE SAVED
1311		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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11/16/2023

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WILCO TEXAS

Drawn CU, JR

Checked MS, BB

Date October 27, 2023

Project No. 22020

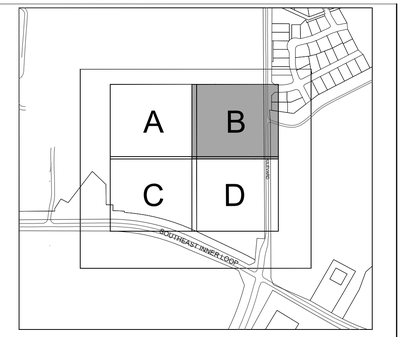
Revisions

SHEET TITLE

GRADING PLAN - A

SHEET NO.

16



30 0 15 30 60

1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(xxx)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPCI		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
		ELECTRIC BOX
	EM	ELECTRIC METER
	GM	GAS METER
		GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSPo	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS	SS	STORMSEWER LINE
W	W	WATER LINE
	F	FIRE LINE
WW	WW	WASTEWATER LINE
G	G	GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
UT	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
	4 BIKES / 4 BIKES	BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1111		TREE TO BE SAVED
111		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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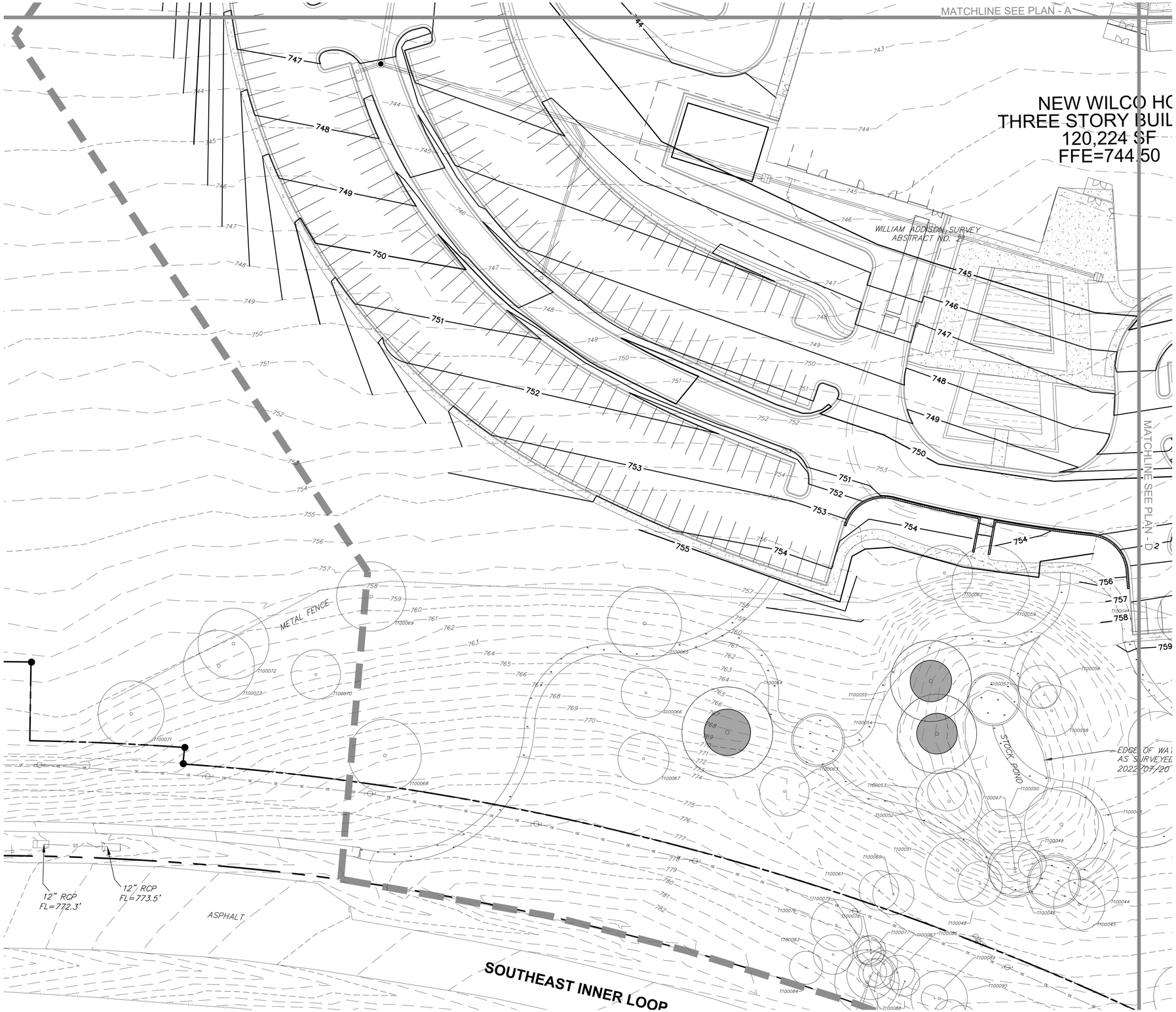
Revisions

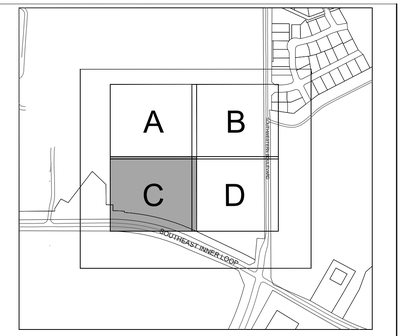
SHEET TITLE

GRADING PLAN - B

SHEET NO.

17





30 0 15 30 60

1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(xxx)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMCP		UNDERGROUND CABLE MARKER
GMGP		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPCB		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
	E	ELECTRIC BOX
	EM	ELECTRIC METER
	GM	GAS METER
		GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSPo	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS	SS	STORMSEWER LINE
W	W	WATER LINE
		FIRE LINE
WW	WW	WASTEWATER LINE
G	G	GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
UT	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
		TREE TO BE SAVED
		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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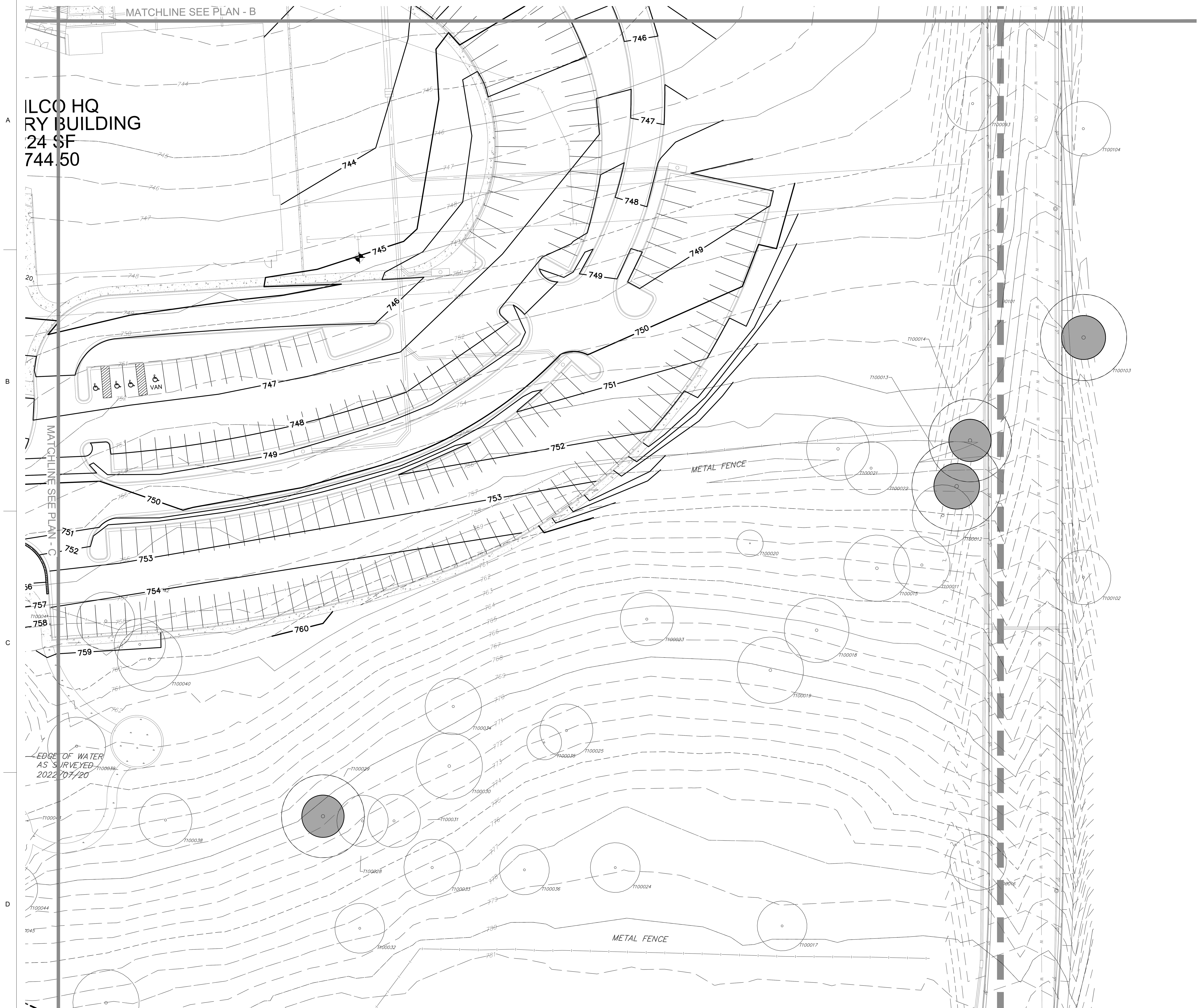
Revisions

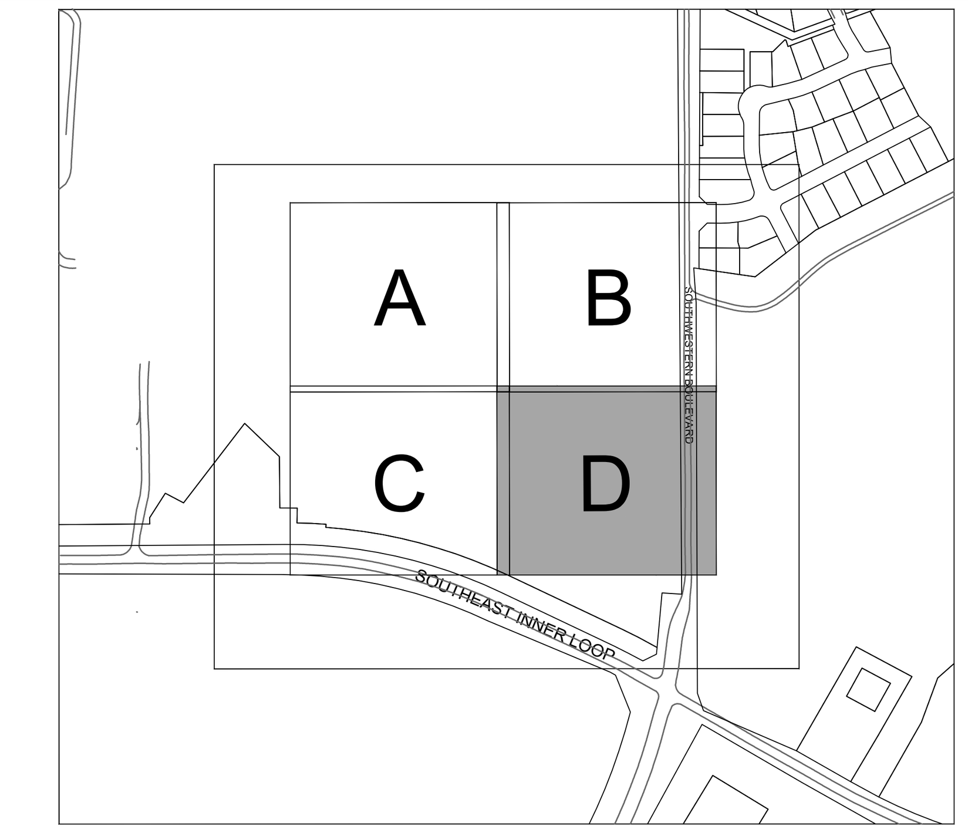
SHEET TITLE

GRADING PLAN - C

SHEET NO.

18





30 0 15 30 60
1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH ●		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB ■	TRAFFIC CONTROL BOX
TSP	TSP ●	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	●CO	WASTEWATER CLEANOUT
x	x	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1111		TREE TO BE SAVED
1111		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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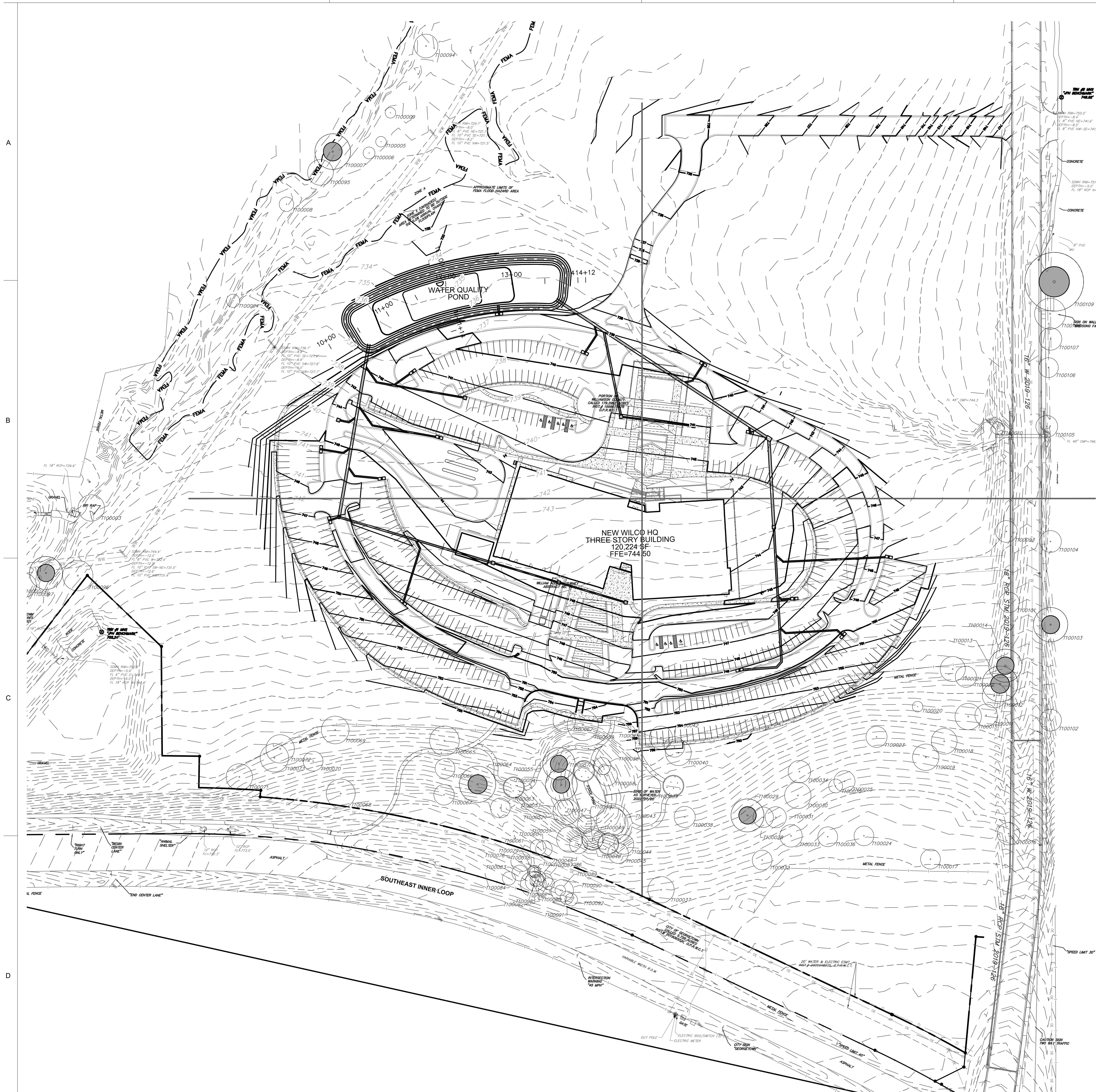
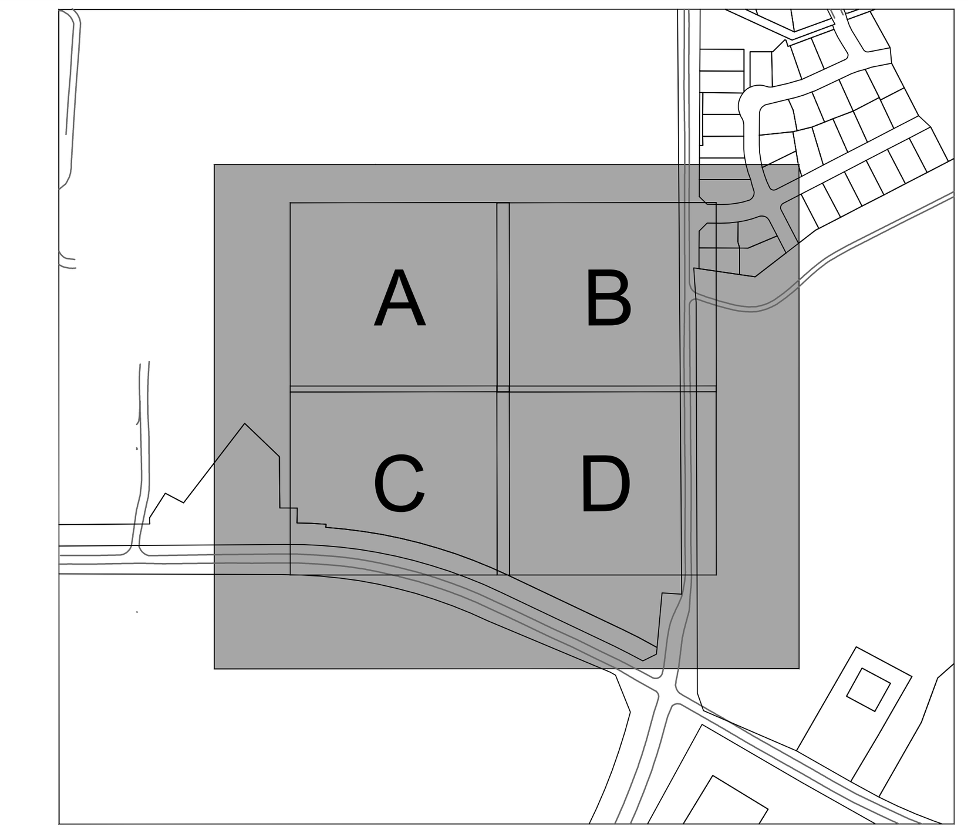
Project No. 22020
Revisions

SHEET TITLE
GRADING PLAN - D

SHEET NO.
19





30 0 15 30 60
1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
TV	TV	CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
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	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1111		TREE TO BE SAVED
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	HP	HIGH POINT
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	G	GUTTER
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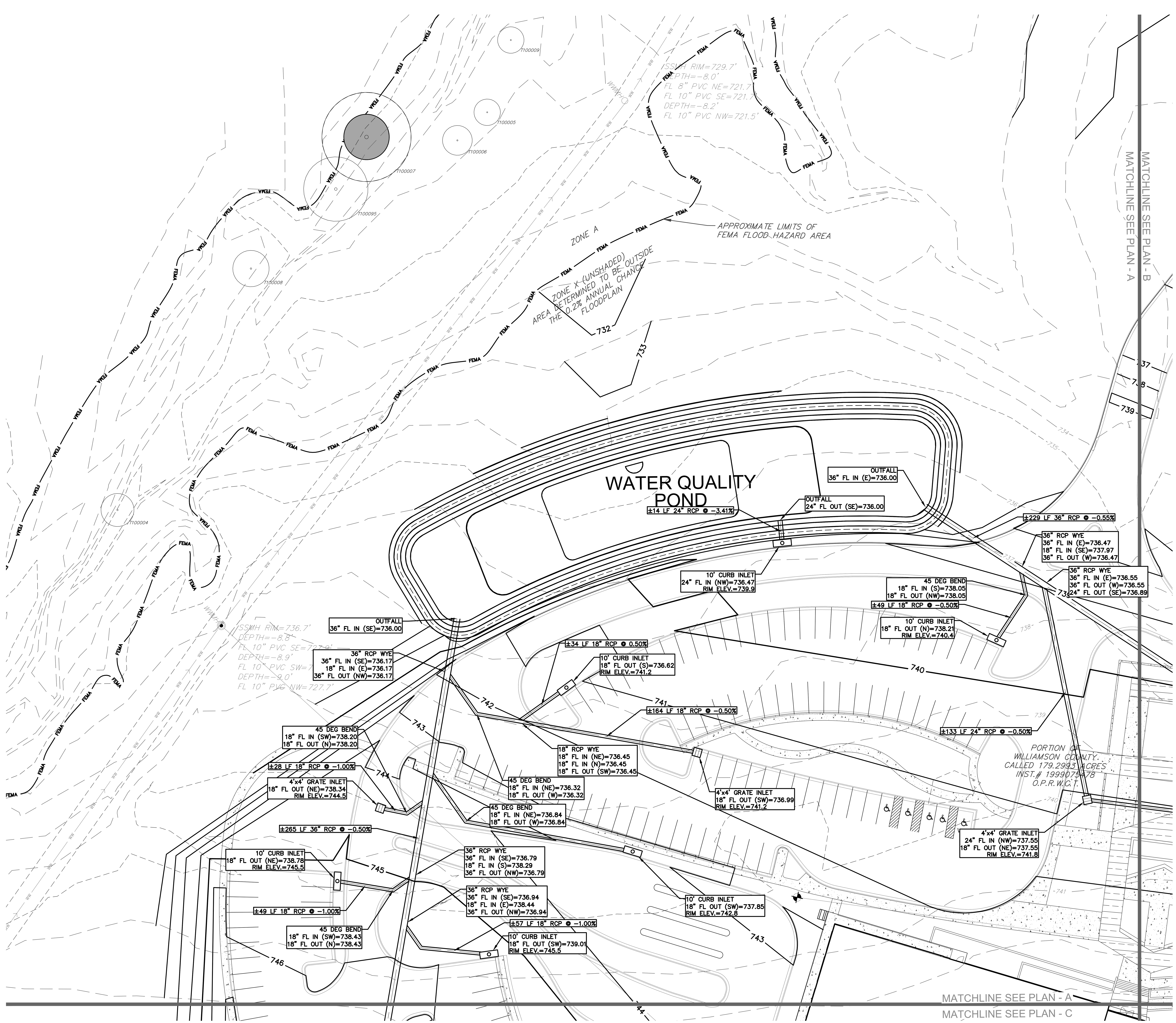
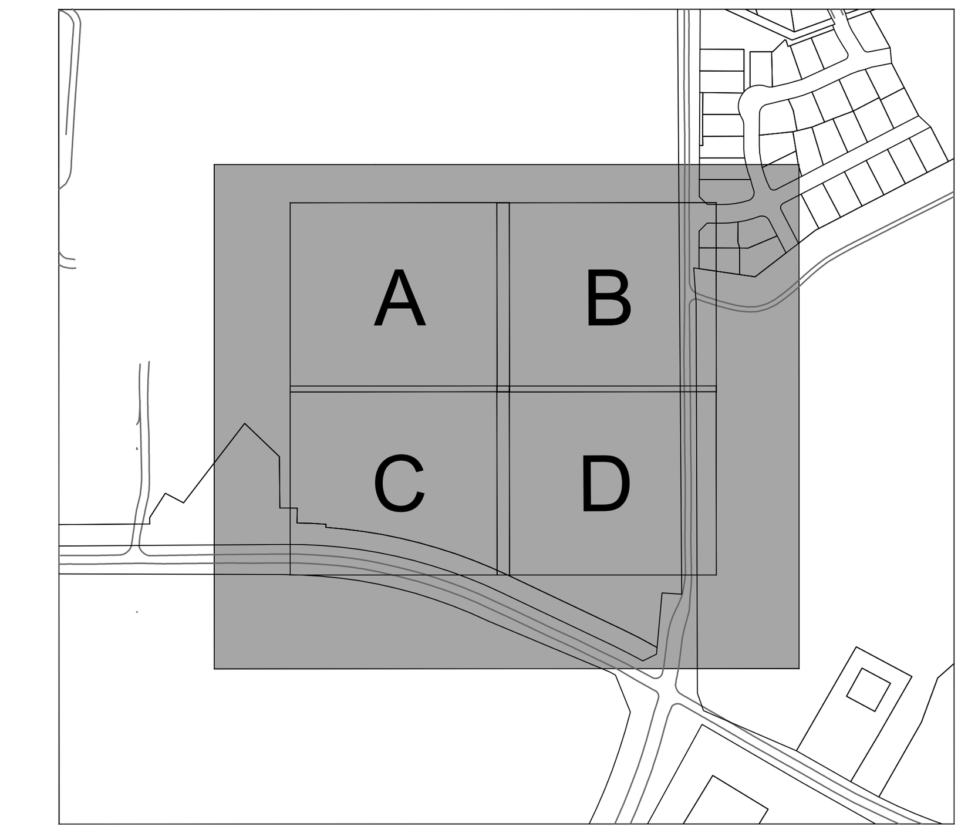
SHEET TITLE
MASTER DRAINAGE PLAN

SHEET NO.
20



WATER QUALITY POND
ZONE A
ZONE X (UNSHADED) AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
APPROXIMATE LIMITS OF FEMA FLOOD HAZARD AREA
FEMA
SSMH RIM=729.7' DEPTH=-8.0' FL 8" PVC NE=721.7' FL 10" PVC SE=721.7' DEPTH=-8.2' FL 10" PVC NW=721.5'
SSMH RIM=736.7' DEPTH=-8.8' FL 10" PVC SE=727.9' DEPTH=-8.9' FL 10" PVC SW=7 DEPTH=-9.0' FL 10" PVC NW=727.7'
T100009
T100005
T100006
T100007
T100095
T100008
T100004
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
OUTFALL 36" FL IN (E)=736.00
OUTFALL 24" FL OUT (SE)=736.00
±14 LF 24" RCP @ -3.41%
10' CURB INLET 24" FL IN (NW)=736.47 RIM ELEV.=739.9
OUTFALL 36" FL IN (SE)=736.00
36" RCP WYE 36" FL IN (SE)=736.17 18" FL IN (E)=736.17 36" FL OUT (NW)=736.17
±34 LF 18" RCP @ 0.50%
10' CURB INLET 18" FL OUT (S)=736.62 RIM ELEV.=741.2
±229 LF 36" RCP @ -0.55%
36" RCP WYE 36" FL IN (E)=736.47 18" FL IN (SE)=737.97 36" FL OUT (W)=736.47
36" RCP WYE 36" FL IN (E)=736.55 36" FL OUT (W)=736.55 24" FL OUT (SE)=736.89
45 DEG BEND 18" FL IN (S)=738.05 18" FL OUT (NW)=738.05
±49 LF 18" RCP @ -0.50%
10' CURB INLET 18" FL OUT (N)=738.21 RIM ELEV.=740.4
±164 LF 18" RCP @ -0.50%
±133 LF 24" RCP @ -0.50%
PORTION OF WILLIAMSON COUNTY CALLED 179.2993 ACRES INST.# 1999075478 O.P.R.W.C.T.
45 DEG BEND 18" FL IN (SW)=738.20 18" FL OUT (N)=738.20
±28 LF 18" RCP @ -1.00%
4'x4' GRATE INLET 18" FL OUT (NE)=738.34 RIM ELEV.=744.5
18" RCP WYE 18" FL IN (NE)=736.45 18" FL IN (N)=736.45 18" FL OUT (SW)=736.45
45 DEG BEND 18" FL IN (NE)=736.32 18" FL OUT (W)=736.32
45 DEG BEND 18" FL IN (NE)=736.84 18" FL OUT (W)=736.84
4'x4' GRATE INLET 18" FL OUT (SW)=736.99 RIM ELEV.=741.2
4'x4' GRATE INLET 24" FL IN (NW)=737.55 18" FL OUT (NE)=737.55 RIM ELEV.=741.8
±265 LF 36" RCP @ -0.50%
10' CURB INLET 18" FL OUT (NE)=738.78 RIM ELEV.=745.5
36" RCP WYE 36" FL IN (SE)=736.79 18" FL IN (S)=738.29 36" FL OUT (NW)=736.79
36" RCP WYE 36" FL IN (SE)=736.94 18" FL IN (E)=738.44 36" FL OUT (NW)=736.94
±49 LF 18" RCP @ -1.00%
±57 LF 18" RCP @ -1.00%
10' CURB INLET 18" FL OUT (SW)=737.85 RIM ELEV.=742.8
45 DEG BEND 18" FL IN (SW)=738.43 18" FL OUT (N)=738.43
10' CURB INLET 18" FL OUT (SW)=739.01 RIM ELEV.=745.5
MATCHLINE SEE PLAN - A
MATCHLINE SEE PLAN - B
MATCHLINE SEE PLAN - A
MATCHLINE SEE PLAN - C



30 0 15 30 60
1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
TV	TV	CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1111		TREE TO BE SAVED
1111		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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WILCO TEXAS

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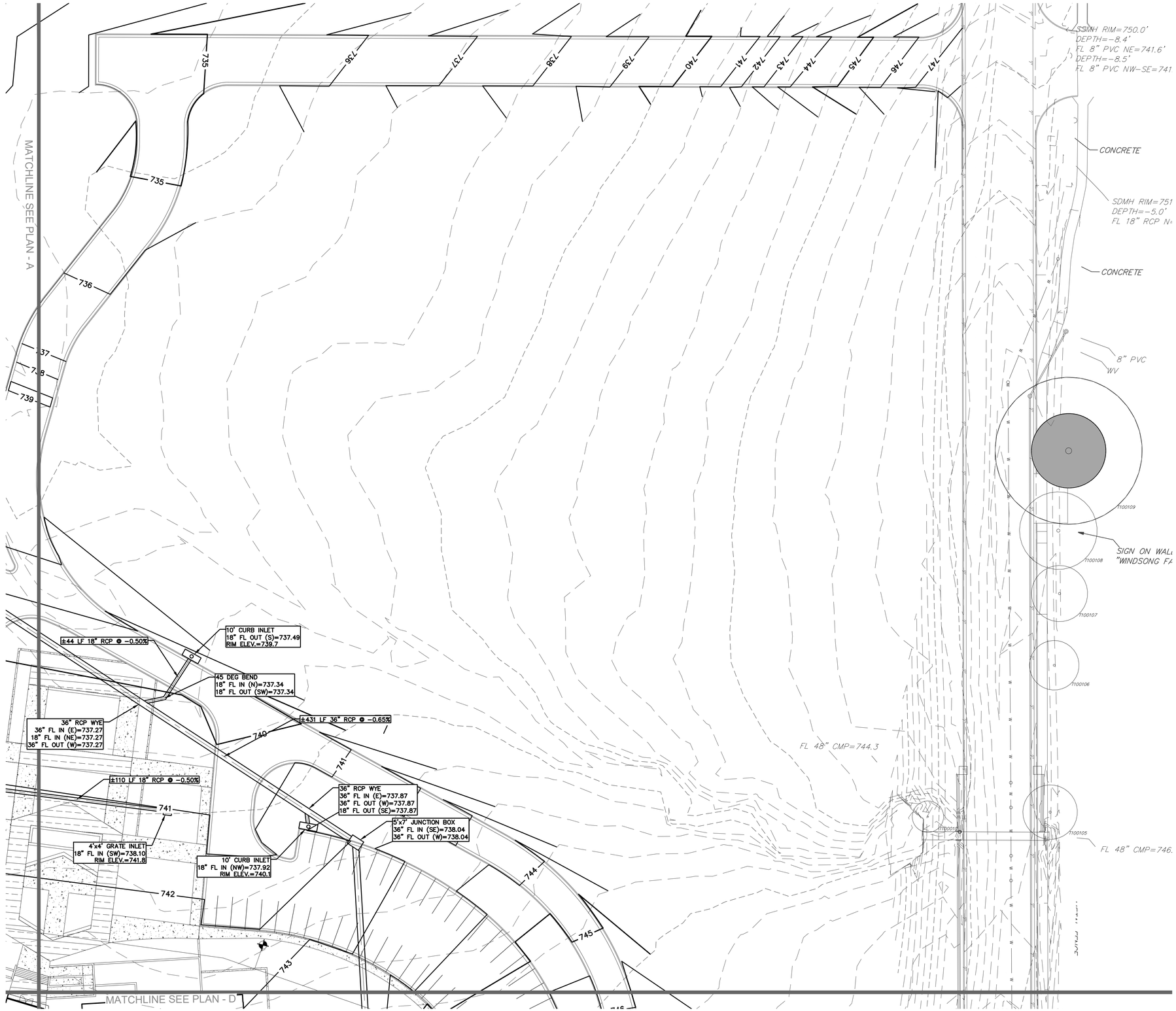
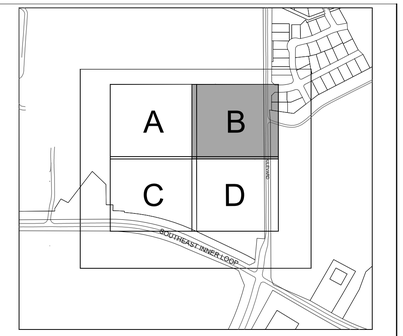
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE
DRAINAGE PLAN - A

SHEET NO.
21

V:\113598-00006\Civil\00-CAD\113598-00006-STM - A.dwg modified by jrusthoven on Nov 16, 23 4:28 PM





30 0 15 30 60

1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(000)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
WM		WATER LINE MARKER
UGCR		UNDERGROUND CABLE MARKER
UGGR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPCB		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
	E	ELECTRIC BOX
	EM	ELECTRIC METER
	GM	GAS METER
		GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WMH		WASTEWATER MANHOLE (SIZE VARIES)
SMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
		TREE TO BE SAVED
		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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Date October 27, 2023

Project No. 22020

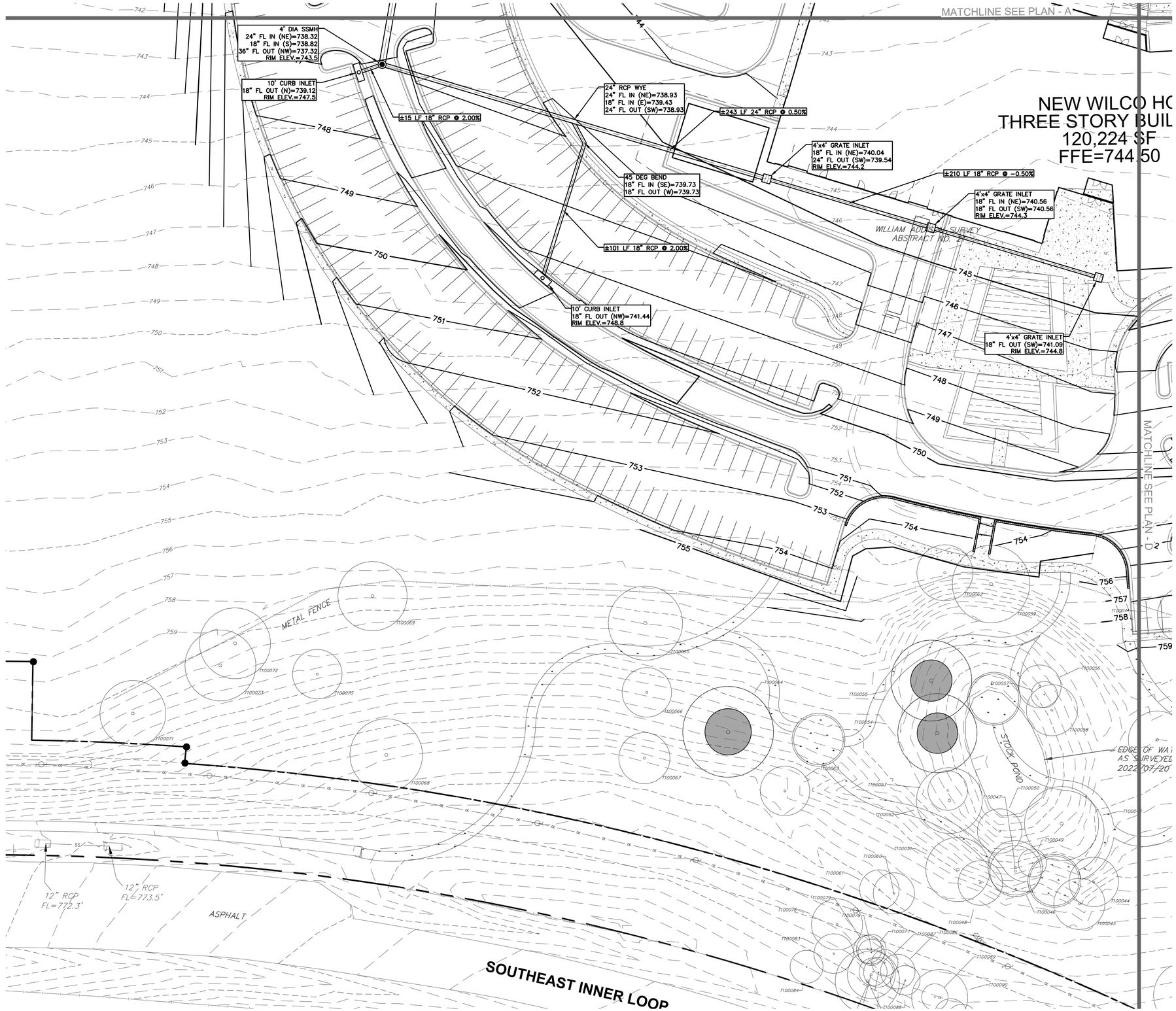
Revisions

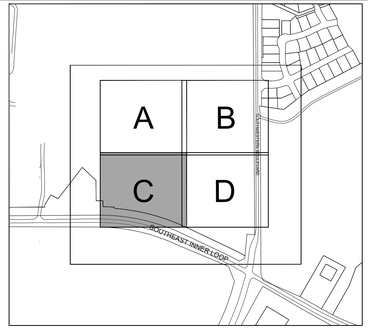
SHEET TITLE

DRAINAGE PLAN - B

SHEET NO.

22





30 0 15 30 60

1" = 30'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(000)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
UGCB		UNDERGROUND CABLE MARKER
UGGS		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPCB		SPRINKLER CONTROL BOX
	SG	SWITCH GEAR & PAD
		TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
	WM	WATER METER VAULT (SIZE VARIES)
	CATV	CABLE TV RISER
	E	ELECTRIC BOX
	EM	ELECTRIC METER
	GM	GAS METER
	GV	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS	SS	STORMSEWER LINE
W	W	WATER LINE
FM	FM	FIRE LINE
WW	WW	WASTEWATER LINE
G	G	GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
UT	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1111		TREE TO BE SAVED
1111		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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Project No. 22020

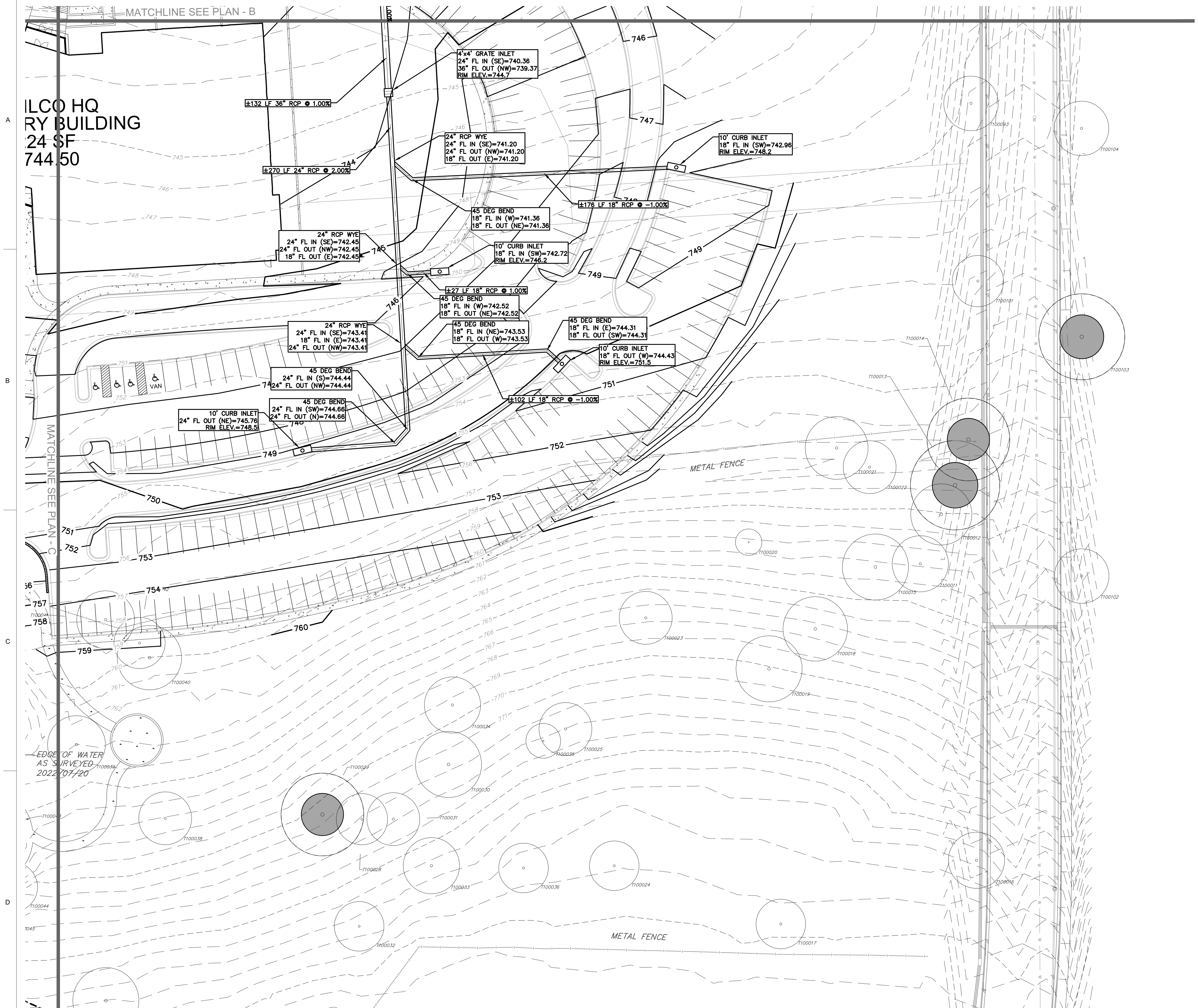
Revisions

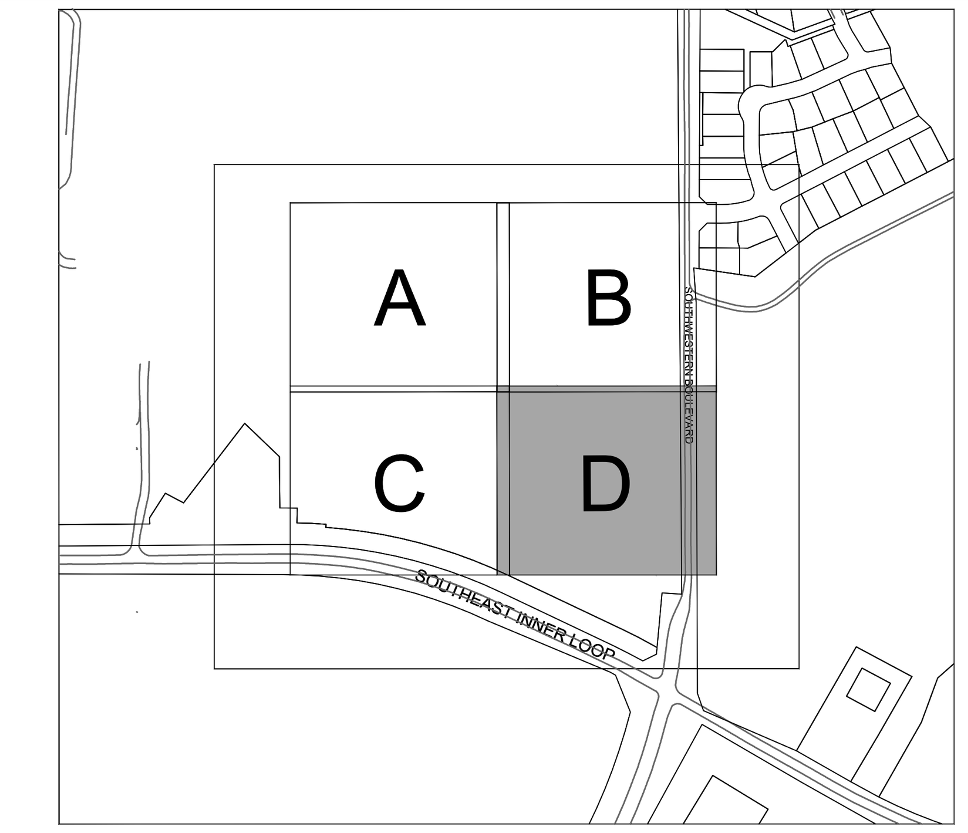
SHEET TITLE

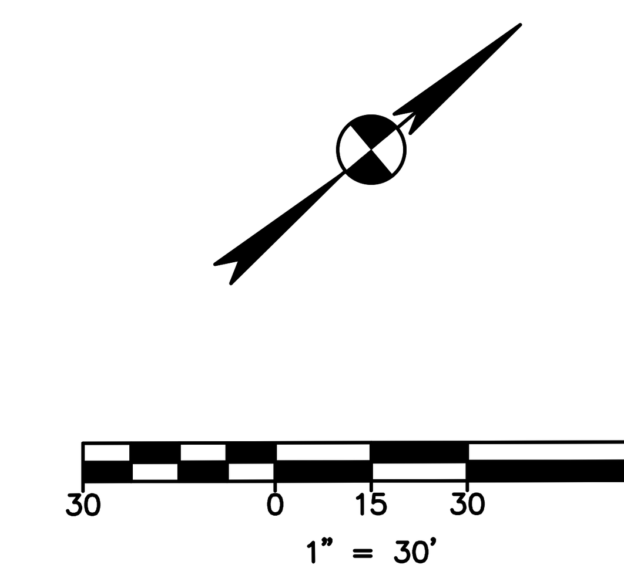
DRAINAGE PLAN - C

SHEET NO.

23







LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH ●		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
TV	TV	CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
1111		TREE TO BE SAVED
1111		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

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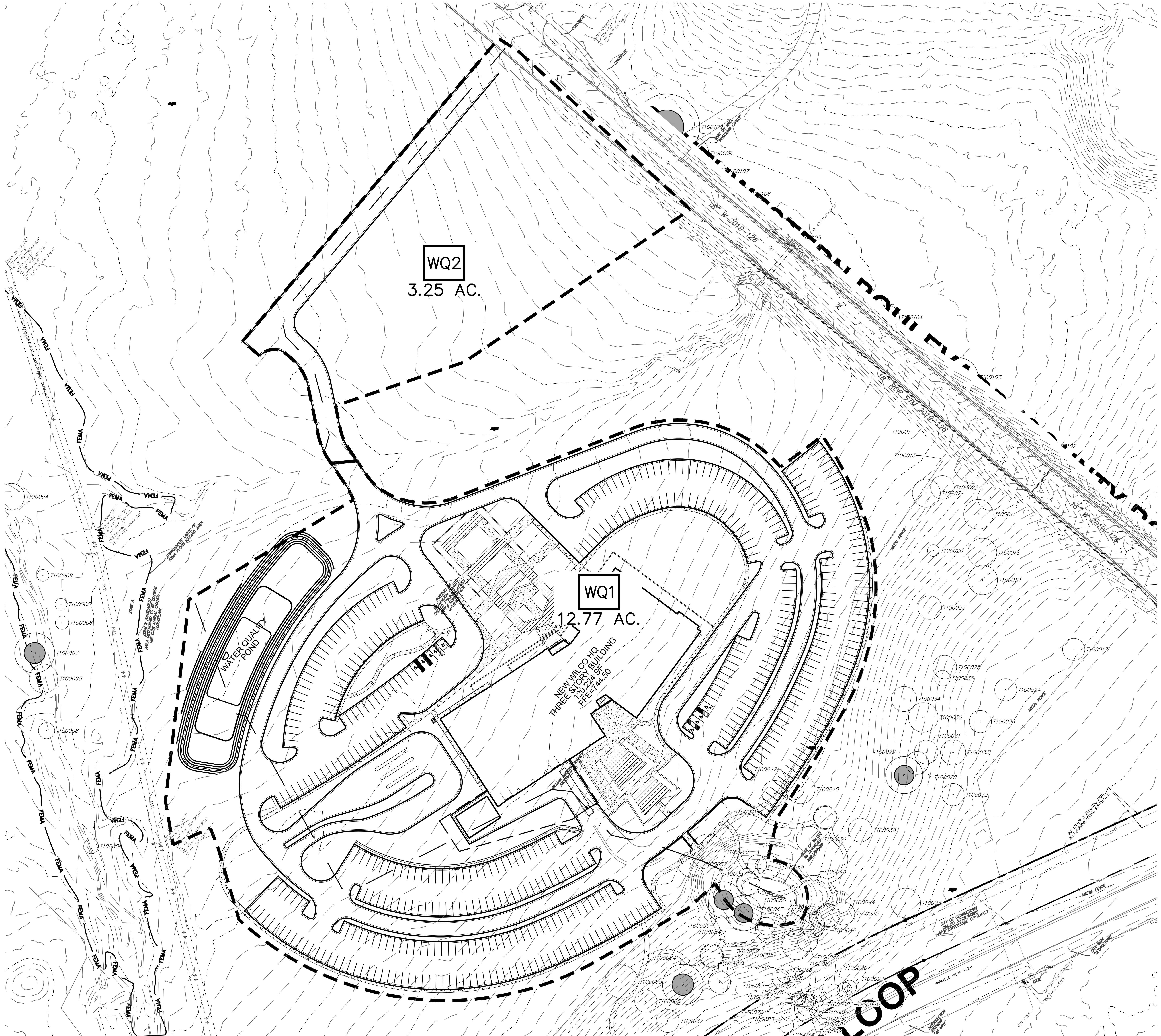
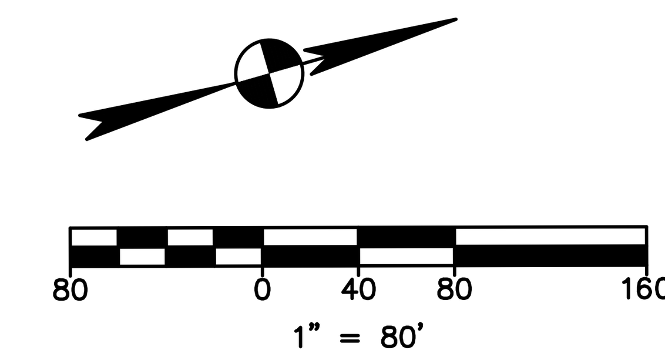
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE
DRAINAGE PLAN - D

SHEET NO.
24

V:\113598-00006\Civil\00-CAD\113598-00006-STM - D.dwg modified by jrusthoven on Nov 16, 23 4:29 PM





LEGEND

EXISTING	DESCRIPTION
	PROPERTY (R.O.W.) LINE
678	CONTOUR
	TIME OF CONCENTRATION
	DRAINAGE DIVIDE
	DIRECTION OF FLOW
E1 1.03 AC.	DRAINAGE AREA NUMBER AND ACREAGE

WQ1

Cover Description & Type	Acres	SF	%
Open space lawns parks golf courses cemeteries - Good condition (grass cover 75%)	4.50	196,020	35.24
Impervious Areas - Paved; curbs and storms drains (excluding right of way)	8.27	360,241	64.76
	0.00	0	0.00
Total	**12.77**	**556,261**	**100**

WQ2

Cover Description & Type	Acres	SF	%
Impervious Areas - Paved; curbs and storms drains (excluding right of way)	0.53	23,087	100.00
	0.00	0	0.00
	0.00	0	0.00
Total	**0.53**	**23,087**	**100**

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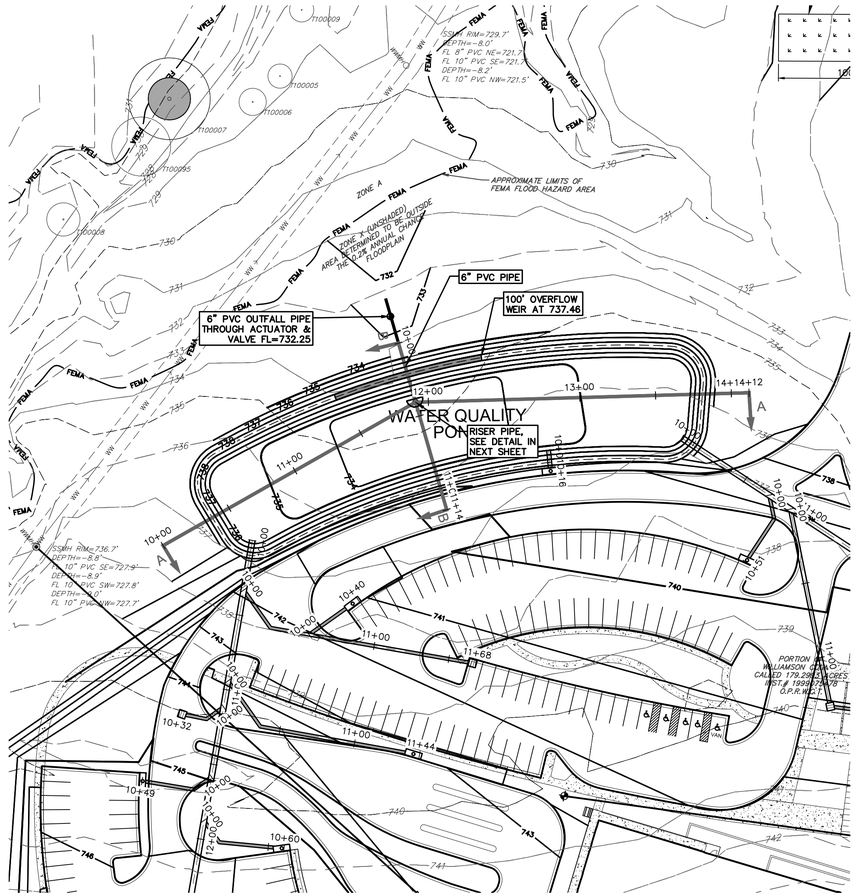
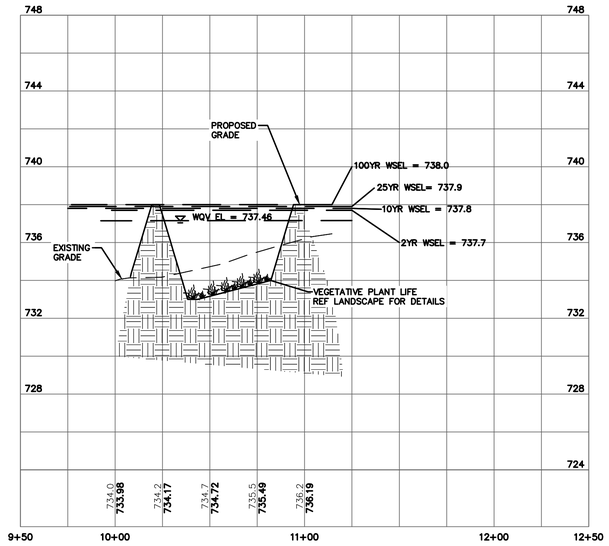
SHEET TITLE
WATER QUALITY DRAINAGE AREA MAP

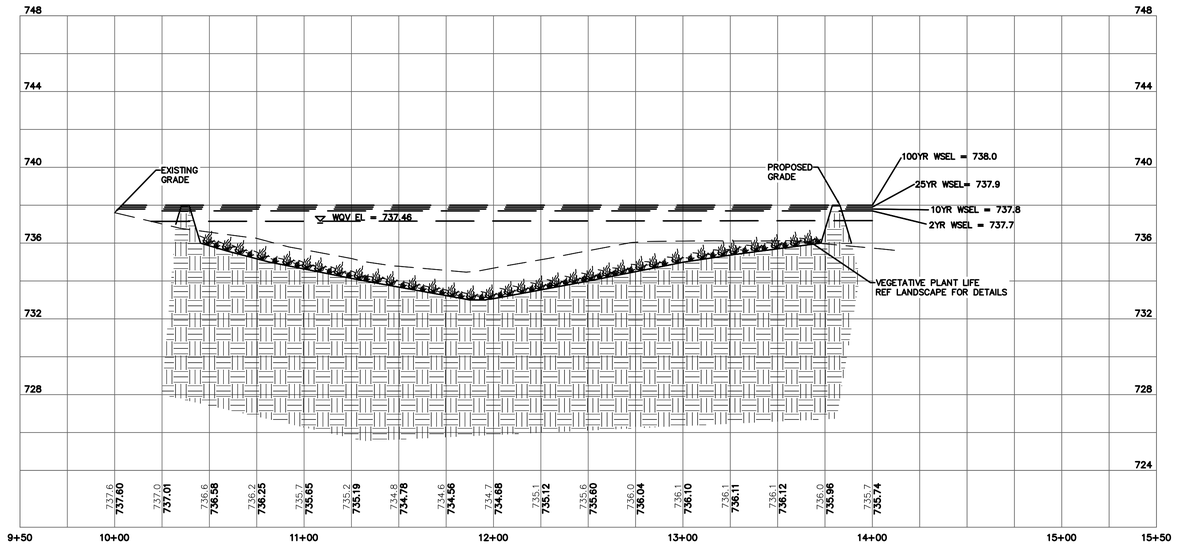
SHEET NO.
25

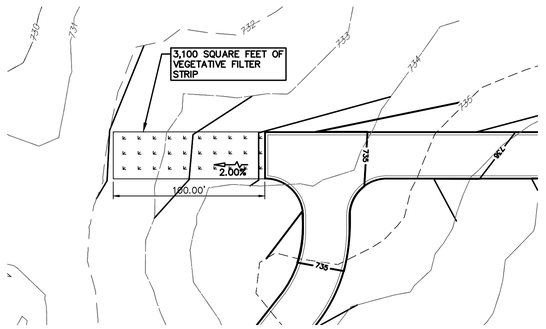


POND B-B

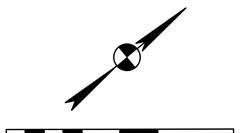


POND A-A





VEGETATIVE FILTER STRIP
SCALE 1: 50



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(000)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		CABLE TV RISER
		ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
GV	GV	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO		WASTEWATER CLEANOUT
X	X	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
	D	DUMPSTER
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS	SS	STORMSEWER LINE
W	W	WATER LINE
	FL	FIRE LINE
WW	WW	WASTEWATER LINE
G	G	GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
UT	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
		HANDICAP ACCESS ROUTE
		SIGN
		WHEELSTOP
		BOLLARD
	FFE	FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		SWALE
		DIRECTION OF FLOW
		TREE TO BE SAVED
		HERITAGE / MATURE TREE
	HP	HIGH POINT
	TW	TOP OF WALL
	TC	TOP OF CURB
	G	GUTTER
701.33	701.33	SPOT ELEVATION

PROFILE LEGEND	PROFILE SCALE
EXISTING GRADE PROPOSED GRADE	1" = 40' HORIZONTAL 1" = 4' VERTICAL
ELEVATION EXISTING GRADE 653.1 658.34 ELEVATION PROPOSED GRADE	

Batch Detention Pond

Stage (ft msl)	Area (sf)	Storage (cf)	Total (cf)
733	45	0	0
734	5288	1940	1940
735	11191	8057	9997
736	18672	14773	24770
737	20900	19776	44546
738	23184	22032	66578

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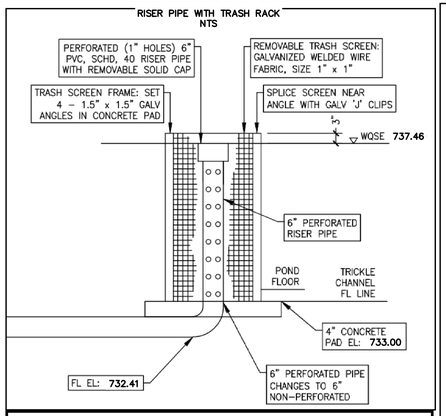
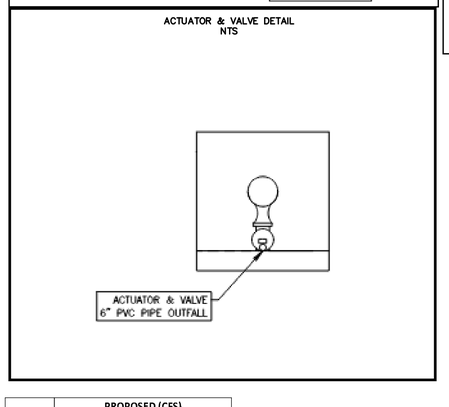
SHEET TITLE

POND PLAN AND PROFILE

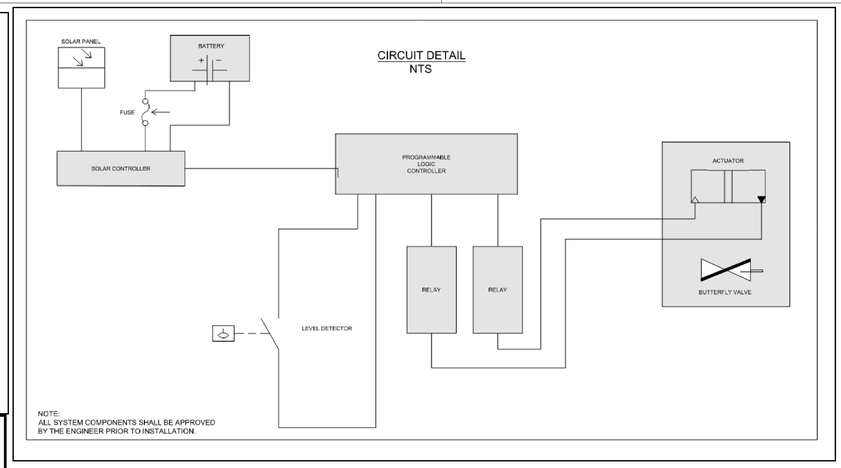
SHEET NO.

26





	PROPOSED (CFS)
2 YR	47.8
10 YR	73.7
25 YR	90.8
100 YR	118.6



Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: WILCO HQ
Date Prepared: 11/16/2023

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

1. The Required Load Reduction for the total project: Calculations from RG-348 — Pages 3-27 to 3-30

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

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

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

County =	Williamson	
Total project area included in plan * =	28.84	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	8.80	acres
Total post-development impervious cover fraction * =	0.31	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	7660	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 2

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

Drainage Basin/Outfall Area No. = WQ2

Total drainage basin/outfall area =	3.25	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	0.53	acres
Post-development impervious fraction within drainage basin/outfall area =	0.16	
$L_{M\ THIS\ BASIN}$ =	461	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Vegetated Filter Strips
Removal efficiency = 85 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

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

A_C =	3.25	acres
A_I =	0.53	acres
A_P =	2.72	acres
L_R =	539	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 461 lbs.

F = 0.86

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: WILCO HQ
Date Prepared: 11/8/2023

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

1. The Required Load Reduction for the total project: Calculations from RG-348A (Appendix A - OEM) — Pages 20 - 24

Page 3-29 Equation 3.3: $L_M = 27.7(A_N \times P)$

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

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

County =	Williamson	
Total project area included in plan * =	28.84	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	8.80	acres
Total post-development impervious cover fraction * =	0.31	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	7800	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 2

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

Drainage Basin/Outfall Area No. = WQ1

Total drainage basin/outfall area =	12.77	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	8.27	acres
Post-development impervious fraction within drainage basin/outfall area =	0.65	
$L_{M\ THIS\ BASIN}$ =	7331	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Detention
Removal efficiency = 91 percent

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

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

A_C =	12.77	acres
A_I =	8.27	acres
A_P =	4.50	acres
L_R =	8403	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = 7791 lbs.

F = 0.93

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 — Pages 3-34 to 3-36

Rainfall Depth =	2.20	inches
Post Development Runoff Coefficient =	0.60	
On-site Water Quality Volume =	61237	cubic feet

Calculations from RG-348 — Pages 3-36 to 3-37

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	12247	
Total Capture Volume (required water quality volume(s) x 1.20) =	73484	cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.

7. Retention/Irrigation System Designed as Required in RG-348 — Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate =	0.2	in/hr	Enter determined permeability rate or assumed value of 0.1
Irrigation area =	NA	square feet	
	NA	acres	

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MAURICIO SILVEYRA
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11/16/2023

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TBPE # F-14629

NEW WILLIAMSON COUNTY
HEADQUARTERS FACILITY

Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

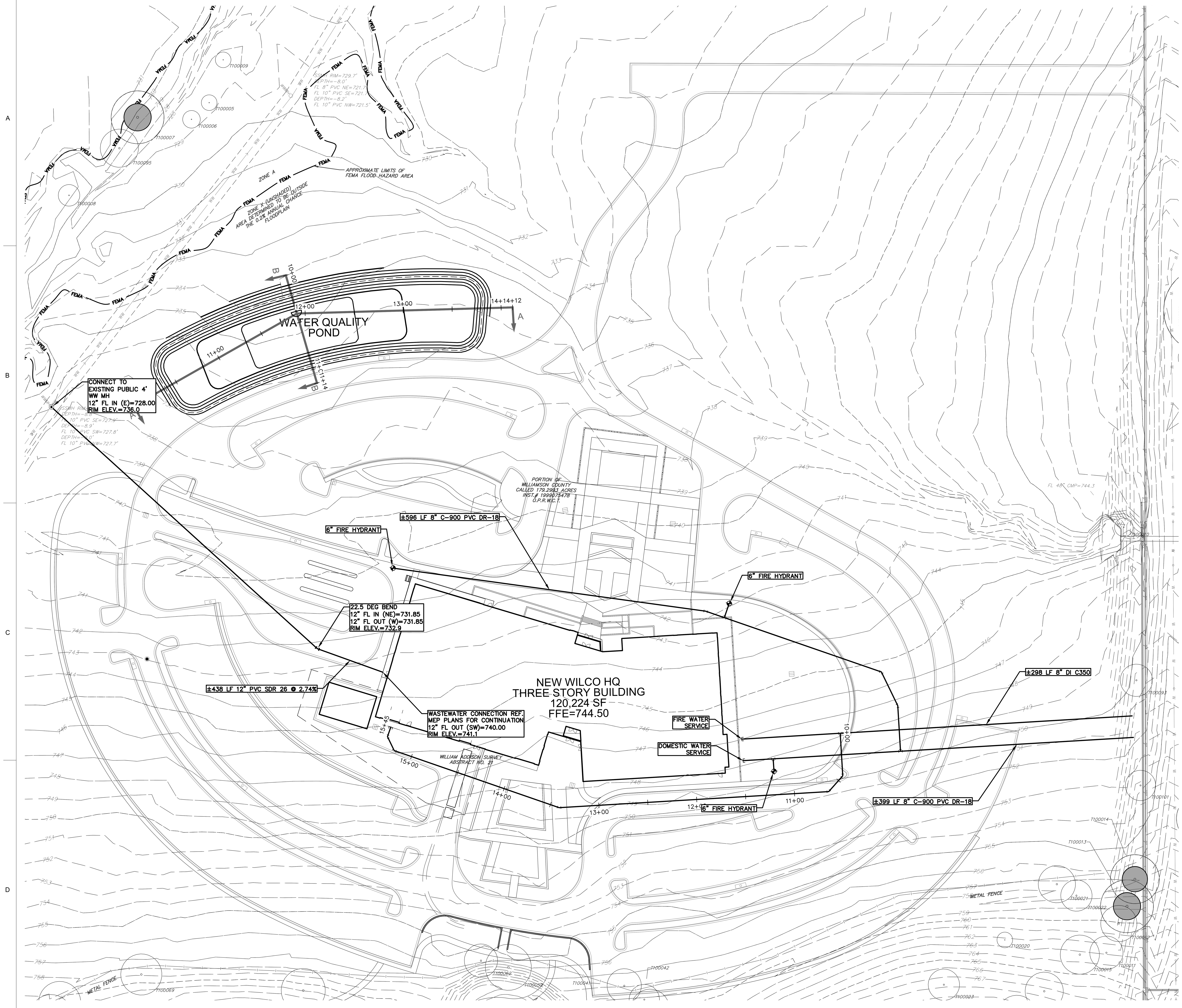
SHEET TITLE

POND DETAILS

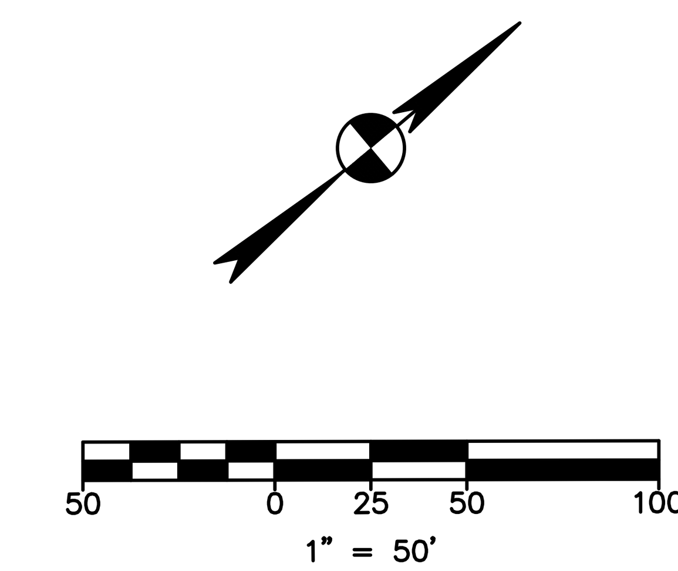
SHEET NO.

27

1	2	3	4	5



A
B
C
D



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / R.O.W. LINE
(XXX)		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
WTRMH		WATER MANHOLE
		WATER LINE MARKER
CMKR		UNDERGROUND CABLE MARKER
GMKR		UNDERGROUND GAS LINE MARKER
UGTM		UNDERGROUND TELEPHONE MARKER
GRSR		GAS RISER
TRSR		TELEPHONE RISER
SPC		SPRINKLER CONTROL BOX
	SW	SWITCH GEAR & PAD
	T	TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
TV	TV	CABLE TV RISER
E	E	ELECTRIC BOX
EM	EM	ELECTRIC METER
GM	GM	GAS METER
G	G	GAS VALVE
TCB	TCB	TRAFFIC CONTROL BOX
TSP	TSP	TRAFFIC SIGNAL POST
		GRATE INLET
		CURB INLET (SIZE VARIES)
		GREASE TRAP (SIZE VARIES)
EMH		ELECTRIC MANHOLE (SIZE VARIES)
WWMH		WASTEWATER MANHOLE (SIZE VARIES)
SSMH		STORMSEWER MANHOLE (SIZE VARIES)
TMH	TMH	TELEPHONE MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT
x	x	WIRE FENCE
//	//	WOOD FENCE
		CHAIN LINK FENCE
		CURB & GUTTER
		EDGE OF PAVEMENT
		CONCRETE SIDEWALKS
		WALL
		LIMITS OF CONSTRUCTION
678	678	CONTOUR
SS		STORMSEWER LINE
W		WATER LINE
		FIRE LINE
WW		WASTEWATER LINE
G		GAS LINE
UE	UE	UNDERGROUND ELECTRIC LINE
OE	OE	OVERHEAD ELECTRIC LINE
OE	UT	UNDERGROUND TELEPHONE LINE
UC	UC	UNDERGROUND CABLE AND INTERNET
U-COMM	U-COMM	UNDERGROUND TELECOMMUNICATIONS
	FFE	FINISH FLOOR ELEVATION
1111		TREE TO BE SAVED
1111		HERITAGE / MATURE TREE

UTILITY NOTES:

1. ALL PUBLIC WATERLINES TO BE DUCTILE IRON CLASS 350. ALL FIRE LINES AND FIRE HYDRANT LEADS TO BE DUCTILE IRON CLASS 350 UNLESS OTHERWISE NOTED.
2. ALL WASTEWATER LINES SHALL BE SDR-26 PVC.
3. WATERLINES TO HAVE A TYPICAL DEPTH OF 48 INCHES BELOW SUBGRADE AND A MINIMUM COVER OF 36 INCHES BELOW BOTTOM OF SUBGRADE. WHERE IN CONFLICT WITH ANY OTHER UTILITIES, WATER TO GO ABOVE.
4. CONTRACTOR TO VERIFY THE DEPTH OF THE EXISTING WATERLINE PRIOR TO MAKING THE CONNECTION. FLOWLINES GIVEN ARE BASED ON AS-BUILT CITY OF AUSTIN PLANS.
5. ALL HORIZONTAL AND VERTICAL WATERLINE BENDS, TEES, VALVES AND DEADEND'S SHALL BE RESTRAINED TO THE WATER MAIN USING MECHANICAL JOINT RESTRAINT DEVICES AS APPROVED IN SPL WW-27-A.
6. A TRENCH SAFETY PLAN MUST BE SUBMITTED TO THE ENGINEER ADN THE CITY OF AUSTIN PRIOR TO THE BEGINNING OF TRENCHING ACTIVITIES.
7. UNDERGROUND MAINS FEEDING NFPA 13 SPRINKLER SYSTEMS MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 13, AND THE FIRE CODE, BY A LICENSED SPRINKLER CONTRACTOR WITH A PLUMBING PERMIT. THE ENTIRE MAIN MUST BE HYDROSTATICALLY TESTED AT ONE TIME, UNLESS ISOLATION VALVES ARE PROVIDED BETWEEN TESTED SECTIONS.
8. ANY DISCHARGING OF GROUND WATER OR CONDESATES FROM THE COOLING SYSTEM MUST BE THROUGH THE STORM WATER SEWER. THIS INCLUDES THE DISCHARGING OF GROUNDWATER DURING CONSTRUCTION.
9. ALL JOINTS TO BE RESTRAINED. JOINT RESTRAINED SHALL BE MEGALUG OR CITY APPROVED EQUAL PER CITY STANDARD SPECIFICATION ITEM 510.3(22) AND SPL WW 27-A AND WW 27-F.
10. SERVICE PROVIDERS FOR TELECOM AND INTERNET SERVICE HAVE NOT BEEN IDENTIFIED AT THE TIME OF THIS PERMIT. ONCE THE DEVELOPER IS ABLE TO DETERMINE WHICH SERVICE PROVIDERS WILL BE DESIRED, A CORRECTION AND AULCC APPROVAL WILL BE REQUIRED TO REFLECT THE LOCATION OF THESE SERVICES.
11. GAS SERVICE IS NOT PROPOSED FOR THIS BUILDING AT THE TIME OF THIS PERMIT. IF GAS SERVICES IS NEEDED, A CORRECTION AND AULCC APPROVAL WILL BE REQUIRED TO REFLECT THE LOCATION OF THE SERVICE.

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11/16/2023

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TBPE # F-14629

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY

Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO
TEXAS

Drawn CU, JR
Checked MS, BB
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE
UTILITY PLAN

SHEET NO.
28

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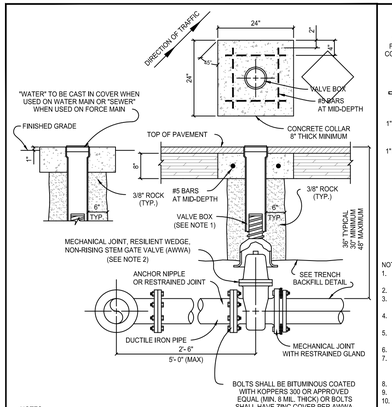


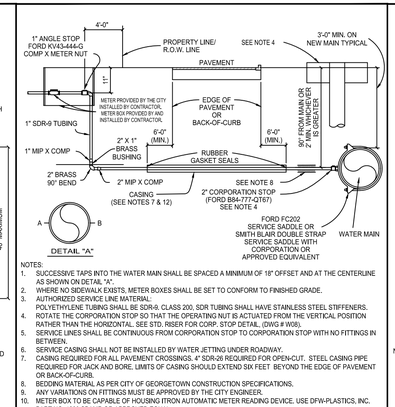
NOTES:

1. VALVE BOX SHALL BE 5 1/4" CAST IRON ADJUSTABLE HAVING AN ADJUSTABLE RANGE OF + OR - 6 INCHES FROM INSTALLED FINISH GRADE.
2. ACCEPTABLE GATE VALVES ARE:
   A. AMERICAN FLOW CONTROL - SERIES 2500
   B. MUELLER - 2360 SERIES
   C. CLOW

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
TYPICAL VALVE SETTING
W07
NTS | 12003 | MRS | TRB



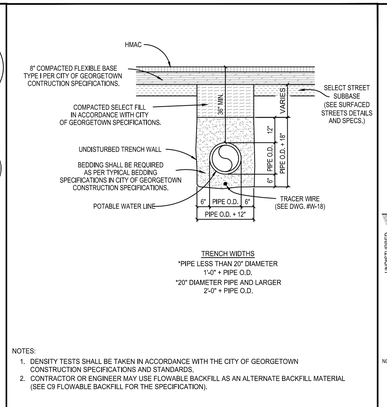
NOTES:

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET AND AT THE CENTERLINE AS SHOWN ON DETAIL "A".
2. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISHED GRADE.
3. AUTHORIZED SERVICE LINE MATERIAL:
   POLYETHYLENE TUBING SHALL BE SDR-9, CLASS 200, SDR TUBING SHALL HAVE STAINLESS STEEL STIFFENERS.
4. ROTATE THE CORPORATION STOP SO THAT THE OPERATING NUT IS ACTUATED FROM THE VERTICAL POSITION RATHER THAN THE HORIZONTAL, SEE STD. RISER FOR CORP. STOP DETAIL, (DWG # W08).
5. SERVICE LINES SHALL BE CONTINUOUS FROM CORPORATION STOP TO CORPORATION STOP WITH NO FITTINGS IN BETWEEN.
6. SERVICE CASING SHALL NOT BE INSTALLED BY WATER JETTING UNDER ROADWAY.
7. CASING REQUIRED FOR ALL PAVEMENT CROSSINGS, 4" SDR-26 REQUIRED FOR OPEN-CUT. STEEL CASING PIPE REQUIRED FOR JACK AND BORE. LIMITS OF CASING SHOULD EXTEND SIX FEET BEYOND THE EDGE OF PAVEMENT OR BACK-OF-CURB.
8. BEDDING MATERIAL AS PER CITY OF GEORGETOWN CONSTRUCTION SPECIFICATIONS.
9. ANY VARIATIONS ON FITTINGS MUST BE APPROVED BY THE CITY ENGINEER.
10. METER BOX TO BE CAPABLE OF HOUSING ITRON AUTOMATIC METER READING DEVICE, USE DFW-PLASTICS, INC. PART NO. 1200,SBAMR OR APPROVED EQUAL.
11. ALL SERVICE LINES SHALL BE PLACED 90° PERPENDICULAR TO THE ROADWAY. SEE DETAIL W23.
12. CASING SHALL EXTEND OUT TO WITHIN 4' INSIDE OF THE R.O.W. LINE, ON BOTH SIDES.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 01/23/2013

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
TYPICAL WATER SERVICE-ELEVATION
W03
NTS | 12013 | MRS | MH



TRENCH WIDTHS
*PIPE LESS THAN 20" DIAMETER
1'-0" + PIPE O.D.
*20" DIAMETER PIPE AND LARGER
2'-0" + PIPE O.D.

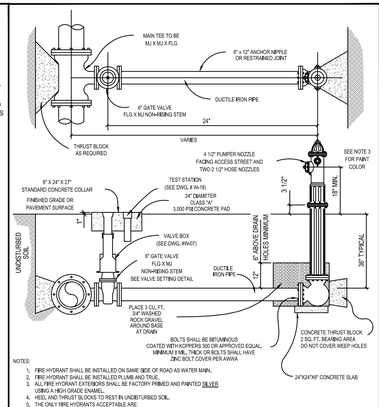
NOTES:

1. DENSITY TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE CITY OF GEORGETOWN CONSTRUCTION SPECIFICATIONS AND STANDARDS.
2. CONTRACTOR OR ENGINEER MAY USE FLOWABLE BACKFILL AS AN ALTERNATE BACKFILL MATERIAL (SEE C9 FLOWABLE BACKFILL FOR THE SPECIFICATION),

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
TRENCH AND EMBEDMENT DETAIL UNDER PROPOSED ROADWAY
W22
NTS | 12003 | MRS | TRB



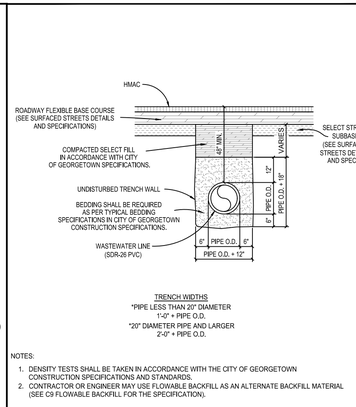
NOTES:

1. FIRE HYDRANT SHALL BE INSTALLED ON SAME SIDE OF ROAD AS WATER MAIN.
2. FIRE HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
3. ALL FIRE HYDRANT EXTERIORS SHALL BE FACTORY PRIMED AND PAINTED SILVER (USING A HIGH GRADE ENAMEL).
4. HEEL AND THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
5. THE ONLY FIRE HYDRANTS ACCEPTABLE ARE:
   A. KENNEDY - K81
   B. AMERICAN DARLING - B848
   C. CLOW MEDALLION
6. DOUBLE BLUE REFLECTOR "HY-ELITES" BRAND, MANUFACTURED BY PAVEMENT MARKERS INC., TO BE INSTALLED AT CENTERLINE OF STREET PERPENDICULAR TO HYDRANT.
7. ALL METALLIC PIPES AND FITTINGS SHALL BE WRAPPED WITH 8 MILL, POLYETHELENE FILM.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
TYPICAL FIRE HYDRANT INSTALLATION
W10
NTS | 12003 | MRS | TRB



TRENCH WIDTHS
*PIPE LESS THAN 20" DIAMETER
1'-0" + PIPE O.D.
*20" DIAMETER PIPE AND LARGER
2'-0" + PIPE O.D.

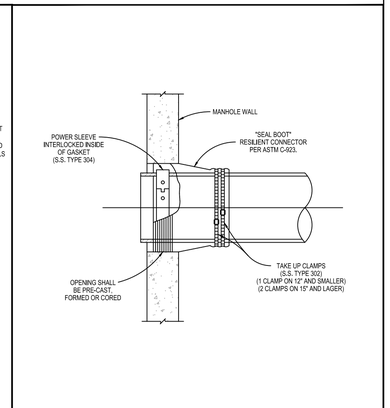
NOTES:

1. DENSITY TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE CITY OF GEORGETOWN CONSTRUCTION SPECIFICATIONS AND STANDARDS.
2. CONTRACTOR OR ENGINEER MAY USE FLOWABLE BACKFILL AS AN ALTERNATE BACKFILL MATERIAL (SEE C9 FLOWABLE BACKFILL FOR THE SPECIFICATION),

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

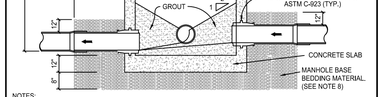
CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
TRENCH AND EMBEDMENT DETAIL UNDER PROPOSED ROADWAY
WW18
NTS | 12003 | MRS | TRB



The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
FLEXIBLE "SEAL BOOT" CONNECTOR
WW10
NTS | 12003 | MRS | TRB



NOTES:

1. MANHOLES SHALL BE PRECAST ASTM C-478 BELL AND SPIGOT WITH PROFILE GASKET - SINGLE OFF-SET JOINTS.
2. SEE PLANS AND MANHOLE SCHEDULE, FOR MANHOLE SIZE, LOCATION, CONFIGURATION, TYPE OF TOP SECTION, VENTING REQUIREMENTS, PIPE SIZE AND TYPES.
3. SEE SPECIFICATIONS ON MATERIALS AND CONSTRUCTION.
4. AN 80 MIL. COAT OF RAVEN LINING SYSTEMS, RAVEN 405 ULTRA HIGH BUILD EPOXY COATING, OR SPRAY WALL EPOXY COATING, OR APPROVED EQUAL, TO BE APPLIED TO ENTIRE INTERIOR OF EACH WASTEWATER MANHOLE AND UNDERSIDE OF FLAT TOPS.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND GASKETTED WHEN MANHOLES ARE LOCATED OUT FROM PAVEMENT.
6. MANHOLES TO BE VENTED ARE IDENTIFIED ON MANHOLE SCHEDULE, REFERENCE MANHOLE VENT DETAIL.
7. MANHOLES ARE TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES RESULTING FROM MANHOLE DEPTH, ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO BE DESIGNED FOR HS-20 TRAFFIC LOADS.
8. GROUT SHALL MEET THE REQUIREMENTS AS STATED BY THE COATING MANUFACTURER.
9. MANHOLE BASE BEDDING MATERIAL, SPECS, FOR 3/4" WASHED GRAVEL.
   SIEVE SIZE 2", PERCENT (%) RETAINED 0
   SIEVE SIZE 1 1/2", % RETAINED 0-10
   SIEVE SIZE 1", % RETAINED 45-80
   SIEVE SIZE 3/4", % RETAINED 85-100
   SIEVE SIZE 3/8", % RETAINED 95-100

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
STANDARD MANHOLE - SECTION
WW03
NTS | 12003 | MRS | TRB

SEE DETAIL WW-03

MANHOLE PLAN

CITY OF GEORGETOWN NOTES:

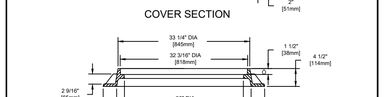
MANHOLE DETAILS SHALL REFLECT THE CITY'S MINIMUM SPECIFICATIONS, AS STATED BELOW:

A. ALL MANHOLES SHALL BE 48" I.D., R.C.P., CLASS III, WITH RUBBER PROFILE GASKET - SINGLE OFF-SET JOINT CONFORMING TO ASTM C-478, C-433 AND C76.
B. ALL MANHOLES SHALL HAVE FRAME AND COVER, AS MANUFACTURED BY EAST JORDAN IRON WORKS (AS PER DETAIL # WW-07) OR APPROVED EQUIVALENT.
C. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON FRAME AND COVER.
D. ALL MANHOLES SHALL HAVE AN ECCENTRIC CONE.
E. MANHOLES MAY HAVE A FLAT LID, IF APPROVED BY CITY OF GEORGETOWN, BEING 12" THICK WITH A MINIMUM 30" OPENING, AS MANUFACTURED BY HANSEN PIPE AND PRECAST OR APPROVED EQUAL M.F.G. CONFORMING TO ASTM C478, 5000 P.S.I. CONCRETE, TRAFFIC BEARING AND WITH PROFILE GASKET - SINGLE OFF-SET JOINT CONFORMING TO ASTM C443.
F. INVERTS AND FLEXIBLE SEAL BOOTS, PER ASTM C-923, SHALL BE CAST INTO BASE SECTION.
G. MINIMUM DROP BETWEEN INVERTS SHALL BE ONE-TENTH OF A FOOT (0.1').
H. GRADE RINGS WITH AN I.D. TO MATCH FRAMES CLEAR OPENING WITH A MAXIMUM ADJUSTMENT OF 12" ARE ALLOWED.

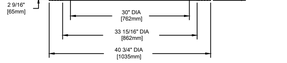
The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
STANDARD MANHOLE - PLAN
WW02
NTS | 12003 | MRS | TRB



COVER SECTION



FRAME SECTION

NOTES:

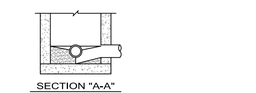
1. STANDARD WASTEWATER MANHOLE SET TO BE EAST JORDAN IRON WORKS, INC. CATALOG NO. 1460A V-1420/1480Z1, COVER TO BE STAMPED WITH "SANITARY SEWER".
2. STANDARD WASTEWATER MANHOLE SET TO BE HEAVY DUTY LOAD RATED.
3. FOR MORE DETAILED SPECIFICATIONS REFER TO EAST JORDAN IRON WORKS, INC. REFERENCE PRODUCT DRAWING 41420012 00148390.
4. FOR BOLTED WASTEWATER MANHOLE SET REFER TO DETAIL WW07A.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
STANDARD WASTEWATER MANHOLE SET
WW07
NTS | 12003 | MRS | TRB

FLOW PATTERNS FOR INVERT CHANNELS



SECTION "A-A"

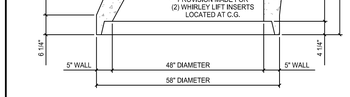
NOTES:

1. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
2. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOW.
3. CHANNELS FOR FUTURE CONSTRUCTIONS (STUBS) SHALL BE CONSTRUCTED, FILLED WITH SAND; AND COVERED WITH 1" OF MORTAR.
4. SLOPE MANHOLE ITSELF WITH A 1:2 SLOPE FROM MANHOLE WALL TO CHANNEL.
5. INVERT SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR 4" DEEP.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

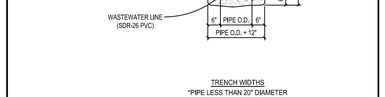
CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
FLOW PATTERNS FOR INVERT CHANNELS
WW06
NTS | 12003 | MRS | TRB



The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
48"X5" TO 33"X8"X36" TALL ECCENTRIC CONCRETE SECTION
WW08
NTS | 12003 | MRS | TRB



TRENCH WIDTHS
*PIPE LESS THAN 20" DIAMETER
1'-0" + PIPE O.D.
*20" DIAMETER PIPE AND LARGER
2'-0" + PIPE O.D.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

ADOPTED 6/21/2006

CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS
TRENCH AND EMBEDMENT DETAIL UNDER NON-PAVED AREAS
WW16
NTS | 12003 | MRS | TRB

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STATE OF TEXAS
MAURICIO SILVEYRA
142987
LICENSED
PROFESSIONAL
ENGINEER

11/16/2023

garza
7708 Rialto Blvd., Suite 125
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Tel. (512) 298-3284 Fax (512) 298-2592
TBPE # F-14629

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY

Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

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Drawn CU, JR
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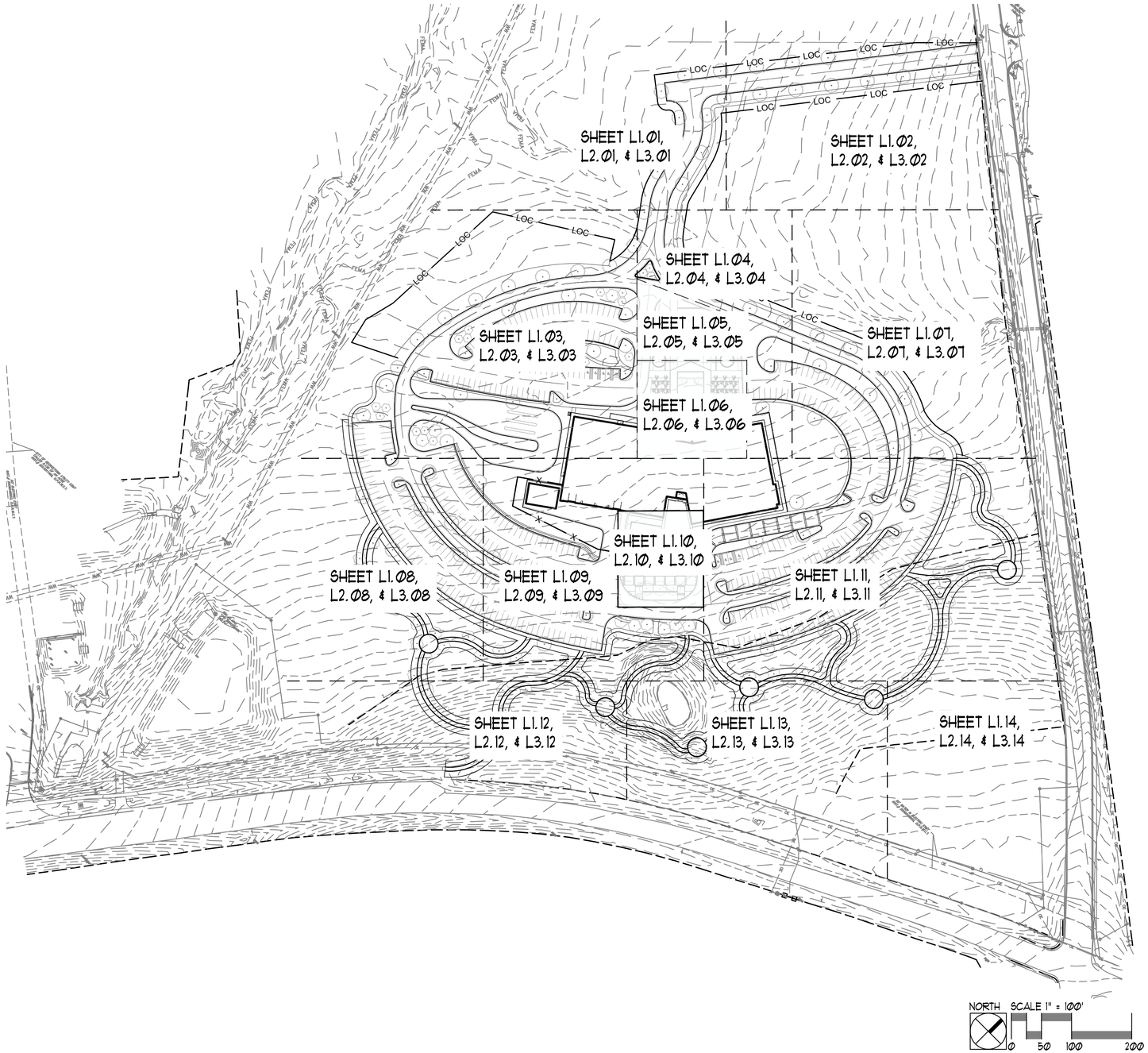
Date October 27, 2023
Project No. 22020
Revisions

SHEET TITLE

UTILITY DETAILS

SHEET NO.

29



GENERAL CONSTRUCTION NOTES:

1. LANDSCAPE CONTRACTOR SHALL BE FAMILIAR WITH ALL EXISTING SITE CONDITIONS INCLUDING UNDERGROUND UTILITIES, PIPES, AND STRUCTURES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR BODILY INJURY AND/OR ANY COST INCURRED DUE TO DAMAGE OF OWNER'S PROPERTY OR UTILITIES.
3. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION TO ENSURE UTILITIES ARE NOT DISTURBED. REFER TO CIVIL DRAWINGS FOR ALL SITE UTILITIES.
4. ANY CONFLICTING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR IT SHALL BE ASSUMED THAT THE CONTRACTOR CAN IMPLEMENT THE PLANS AS DRAWN AND SPECIFIED.
5. EXISTING CONDITIONS ARE SHOWN SHADED BACK TO ALLOW ALL PROPOSED IMPROVEMENTS TO STAND OUT. EXISTING BASE INFORMATION HAS BEEN IMPORTED FROM CIVIL AND ARCHITECTURAL DRAWINGS. REFER TO THESE DRAWINGS FOR SUPPLEMENTAL INFORMATION.
6. PAVEMENT DESIGN AND DETAILS BASED UPON GEOTECHNICAL ENGINEERING REPORT. REPORT AVAILABLE AT JOB SITE TRAILER.

' DRAWING SET FOR TCEQ REVIEW ONLY - NOT FOR CONSTRUCTION OR BIDDING

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11/15/2023

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NEW WILLIAMSON COUNTY
HEADQUARTERS FACILITY

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Georgetown, Tx. 78626

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TEXAS

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SHEET TITLE
REFERENCE PLAN & NOTES

SHEET NO.
L1.00

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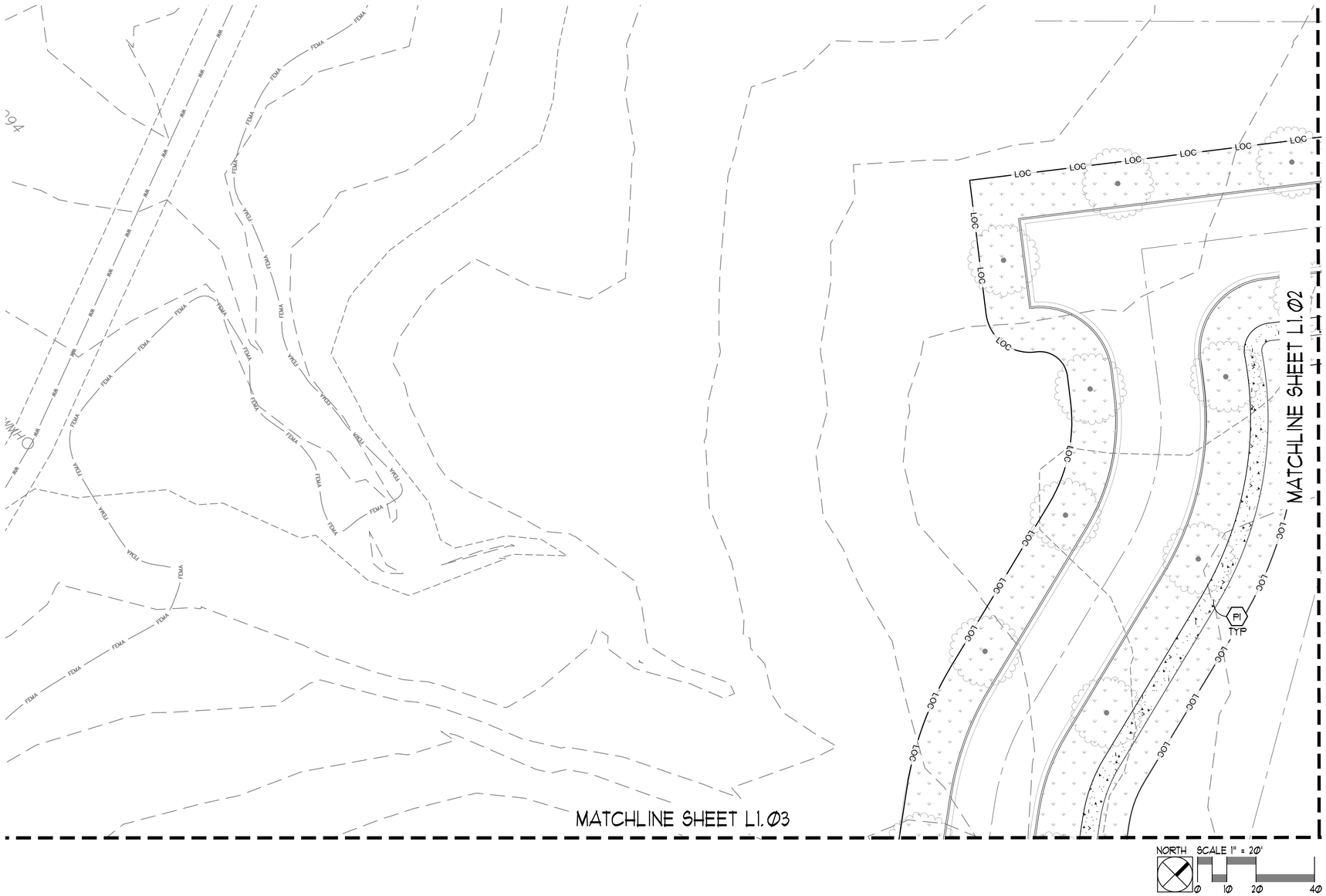

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT, **FINISH:** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		PAVERS ON CONCRETE **MANUFACTURER:** KEYSTONE HARDSCAPES **PAVER SIZE:** 3 X 18 VERONA **FINISH:** QUARTEX **COLOR:** TBD	4 / L1.15
P3		CONCRETE STEPS	1 / L1.16
P4		CONCRETE RAMP	2 / L1.16
P5		MULCH TRAIL	1 / L1.17
E1		9" WIDE CONCRETE MOW BAND	1/L1.15
G1		GRAVEL MAINTENANCE BAND	2/L1.15
G2		GRAVEL PAVE SYSTEM	
R1	HR1	FSR HANDRAIL, BY VIVA RAILING, OR APPROVED EQUAL	
R2	HR2	CIRCA GUARDRAIL SYSTEM WITH VERTICAL PICKET PANELS AND ATTACHED HANDRAIL, BY VIVA RAILING	
W1		SEAT WALL	
W2		SCREEN WALL	
W3		RETAINING WALL	

LANDSCAPE KEY

SYM	DESCRIPTION
	ORNAMENTAL TREE
	MEDIUM TREE
	SHADE TREE
	SOD
	SEED
	PLANTING AREA
	EXISTING TREE TO BE SAVED
	EXISTING TREE TO BE REMOVED

NOTES:
1. REF. LANDSCAPE SHEETS FOR ALL TREE & SHRUB LOCATIONS. TREE SHOWN FOR COORDINATION PURPOSES ONLY ON THIS SHEET.

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SHEET TITLE
HARDSCAPE PLAN

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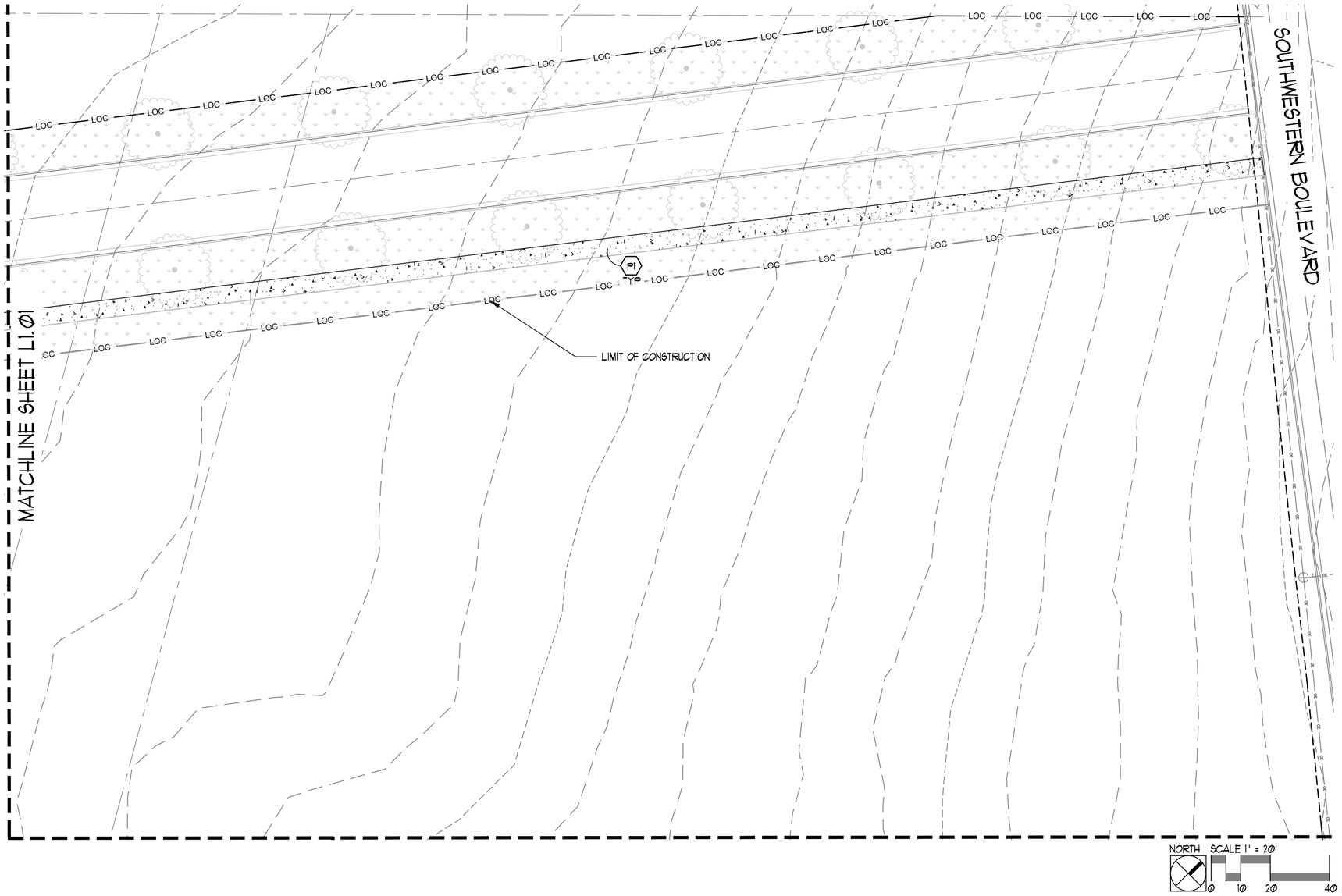

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT, **FINISH.-** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		PAVERS ON CONCRETE **MANUFACTURER.-** KEYSTONE HARDSCAPES **PAVER SIZE.-** 3 X 18 VERONA **FINISH.-** QUARTEX **COLOR.-** TBD	4 / L1.15
P3		CONCRETE STEPS	1 / L1.16
P4		CONCRETE RAMP	2 / L1.16
P5		MULCH TRAIL	1 / L1.17
E1		9" WIDE CONCRETE MOW BAND	1/L1.15
G1		GRAVEL MAINTENANCE BAND	2/L1.15
G2		GRAVEL PAVE SYSTEM	
R1	HR1	F9R HANDRAIL, BY VIVA RAILING, OR APPROVED EQUAL	
R2	HR2	CIRCA GUARDRAIL SYSTEM WITH VERTICAL PICKET PANELS AND ATTACHED HANDRAIL, BY VIVA RAILING	
W1		SEAT WALL	
W2		SCREEN WALL	
W3		RETAINING WALL	

LANDSCAPE KEY

SYM	DESCRIPTION
	ORNAMENTAL TREE
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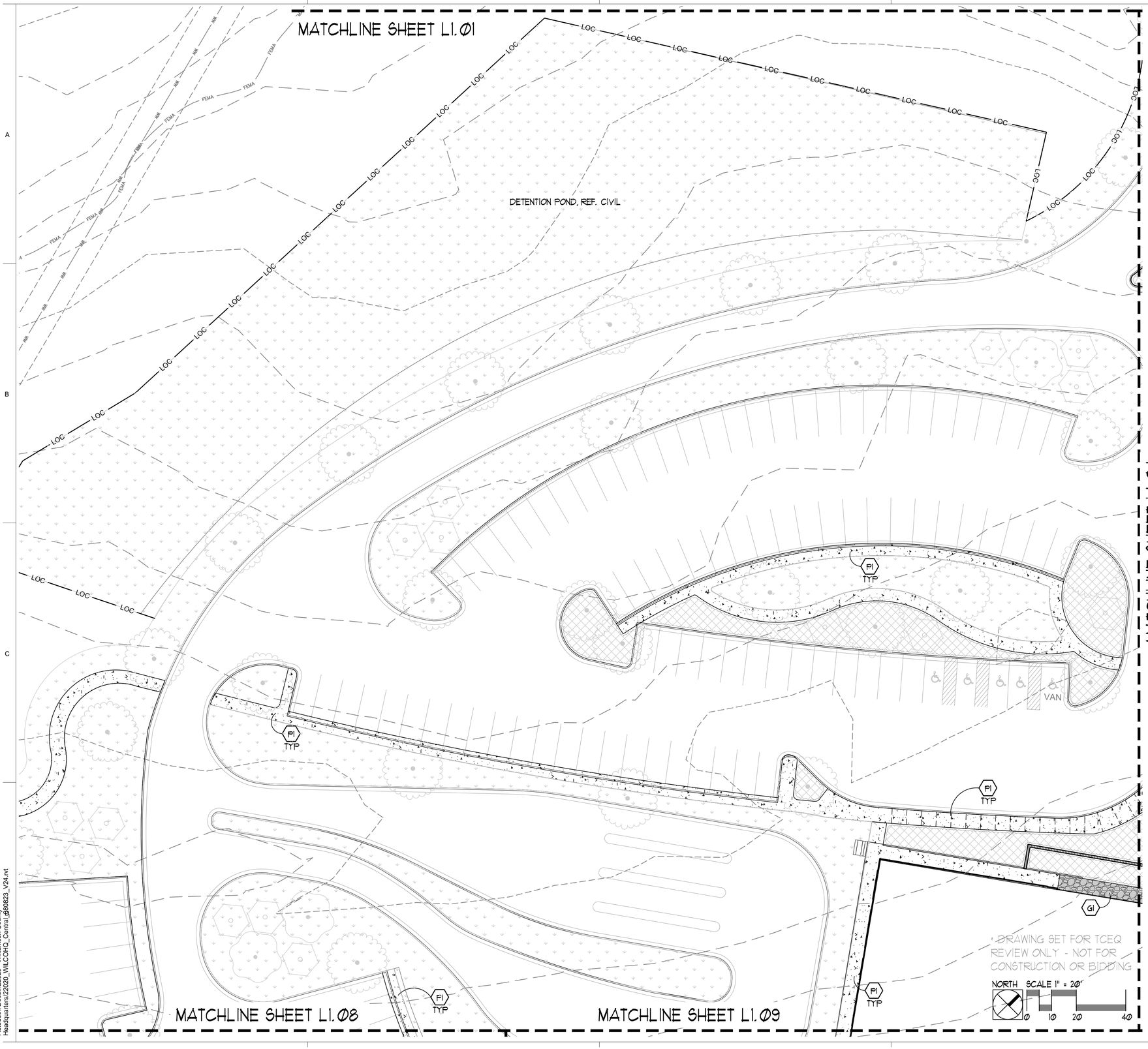

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT, **FINISH.-** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		PAVERS ON CONCRETE **MANUFACTURER.-** KEYSTONE HARDSCAPES **PAVER SIZE.-** 3 X 18 VERONA **FINISH.-** QUARTEX **COLOR.-** TBD	4 / L1.15
P3		CONCRETE STEPS	1 / L1.16
P4		CONCRETE RAMP	2 / L1.16
P5		MULCH TRAIL	1 / L1.17
E1		9" WIDE CONCRETE MOW BAND	1/L1.15
G1		GRAVEL MAINTENANCE BAND	2/L1.15
G2		GRAVEL PAVE SYSTEM	
R1	HR1	FSR HANDRAIL, BY VIVA RAILING, OR APPROVED EQUAL	
R2	HR2	CIRCA GUARDRAIL SYSTEM WITH VERTICAL PICKET PANELS AND ATTACHED HANDRAIL, BY VIVA RAILING	
W1		SEAT WALL	
W2		SCREEN WALL	
W3		RETAINING WALL	

LANDSCAPE KEY

SYM	DESCRIPTION
	ORNAMENTAL TREE
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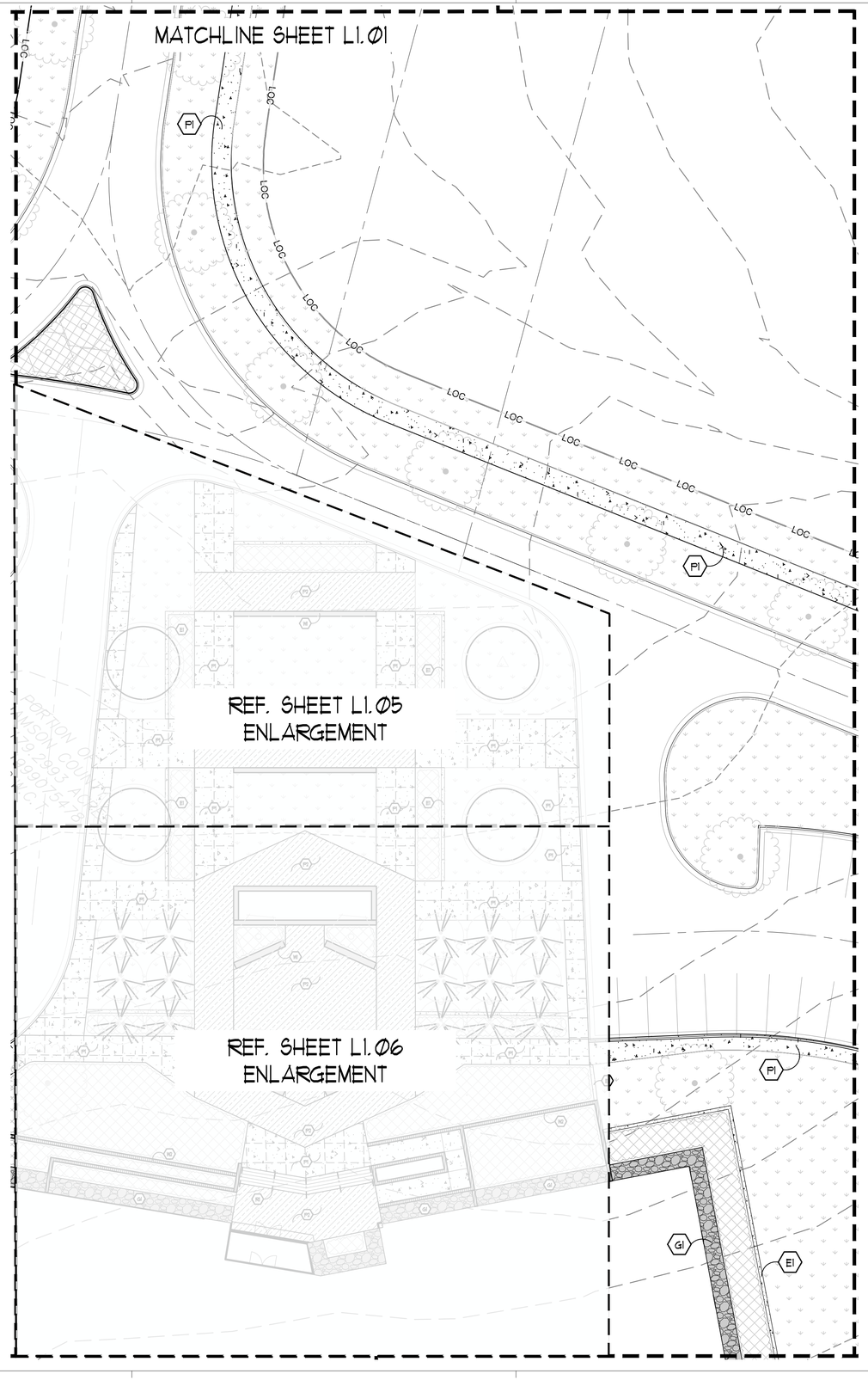

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT, **FINISH.-** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		PAVERS ON CONCRETE **MANUFACTURER.-** KEYSTONE HARDSCAPES **PAVER SIZE.-** 3 X 18 VERONA **FINISH.-** QUARTEX **COLOR.-** TBD	4 / L1.15
P3		CONCRETE STEPS	1 / L1.16
P4		CONCRETE RAMP	2 / L1.16
P5		MULCH TRAIL	1 / L1.17
E1		9" WIDE CONCRETE MOW BAND	1/L1.15
G1		GRAVEL MAINTENANCE BAND	2/L1.15
G2		GRAVEL PAVE SYSTEM	
R1	HR1	FSR HANDRAIL, BY VIVA RAILING, OR APPROVED EQUAL	
R2	HR2	CIRCA GUARDRAIL SYSTEM WITH VERTICAL PICKET PANELS AND ATTACHED HANDRAIL, BY VIVA RAILING	
W1		SEAT WALL	
W2		SCREEN WALL	
W3		RETAINING WALL	

LANDSCAPE KEY

SYM	DESCRIPTION
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NORTH SCALE 1" = 20'
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SHEET TITLE
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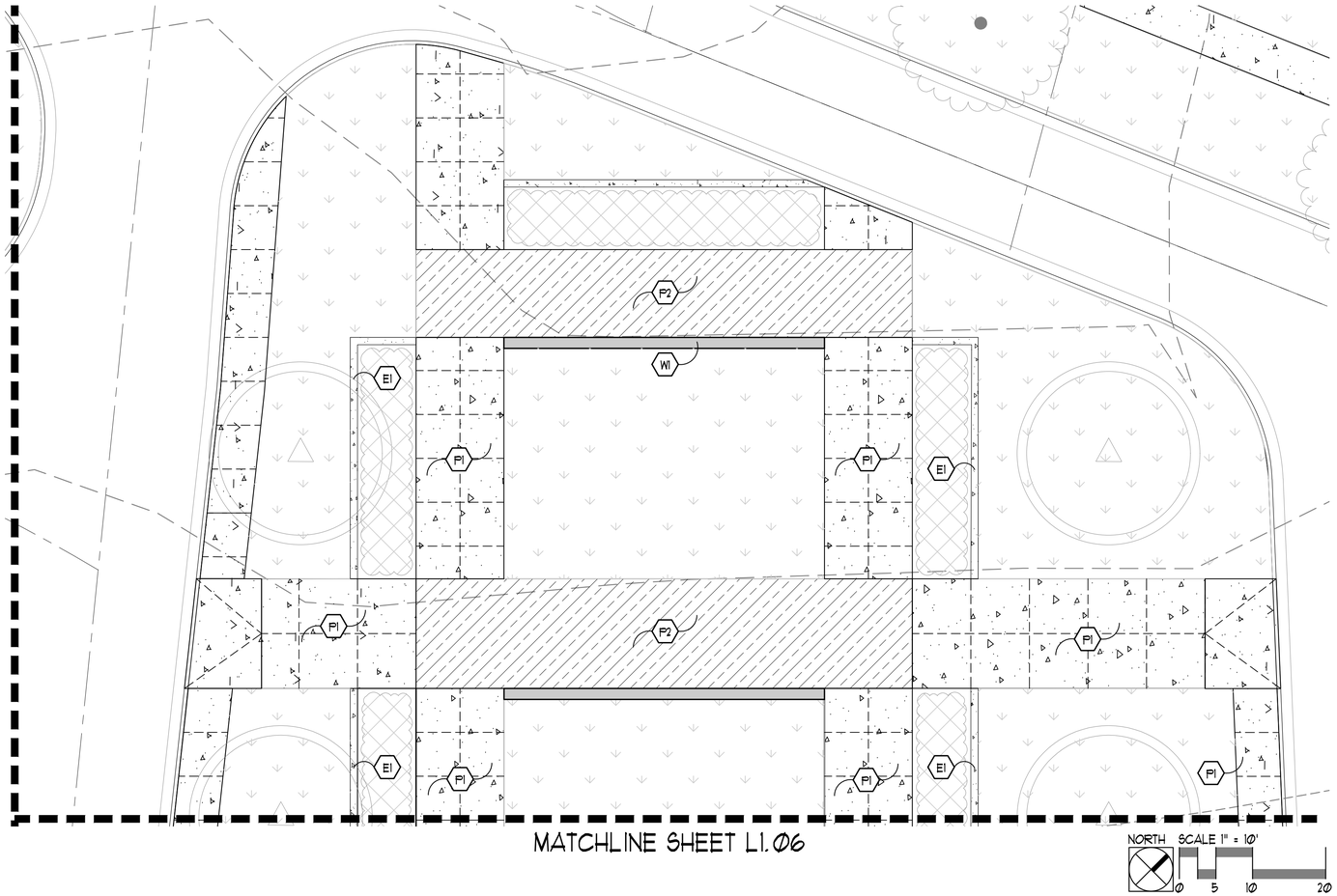

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT, **FINISH.-** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		PAVERS ON CONCRETE **MANUFACTURER.-** KEYSTONE HARDSCAPES **PAVER SIZE.-** 3 X 18 VERONA **FINISH.-** QUARTEX **COLOR.-** TBD	4 / L1.15
P3		CONCRETE STEPS	1 / L1.16
P4		CONCRETE RAMP	2 / L1.16
P5		MULCH TRAIL	1 / L1.17
E1		9" WIDE CONCRETE MOW BAND	1/L1.15
G1		GRAVEL MAINTENANCE BAND	2/L1.15
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W1		SEAT WALL	
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LANDSCAPE KEY

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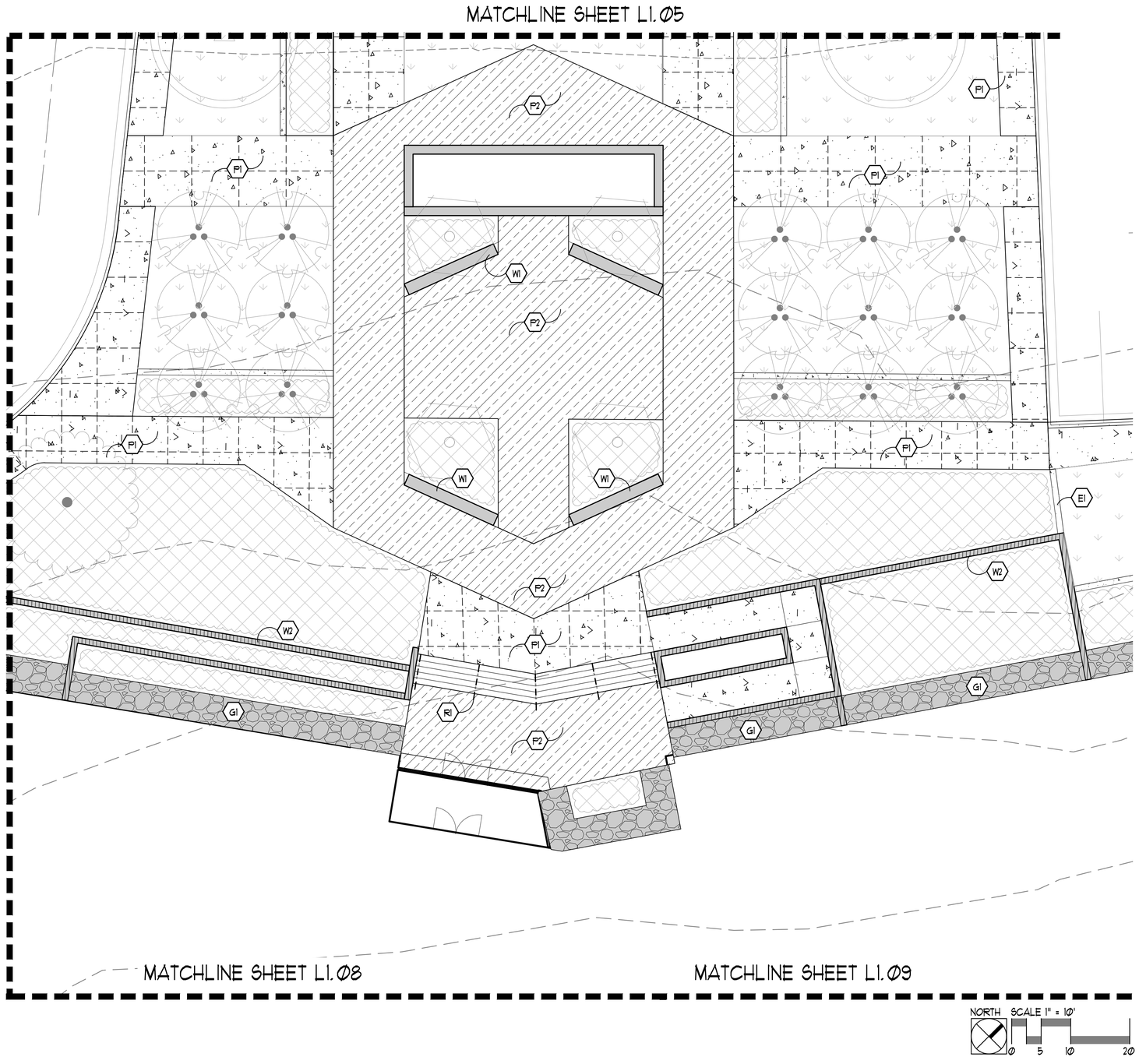

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT, **FINISH.-** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
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P4		CONCRETE RAMP	2 / L1.16
P5		MULCH TRAIL	1 / L1.17
E1		9" WIDE CONCRETE MOW BAND	1/L1.15
G1		GRAVEL MAINTENANCE BAND	2/L1.15
G2		GRAVEL PAVE SYSTEM	
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W1		SEAT WALL	
W2		SCREEN WALL	
W3		RETAINING WALL	

LANDSCAPE KEY

SYM	DESCRIPTION
	ORNAMENTAL TREE
	MEDIUM TREE
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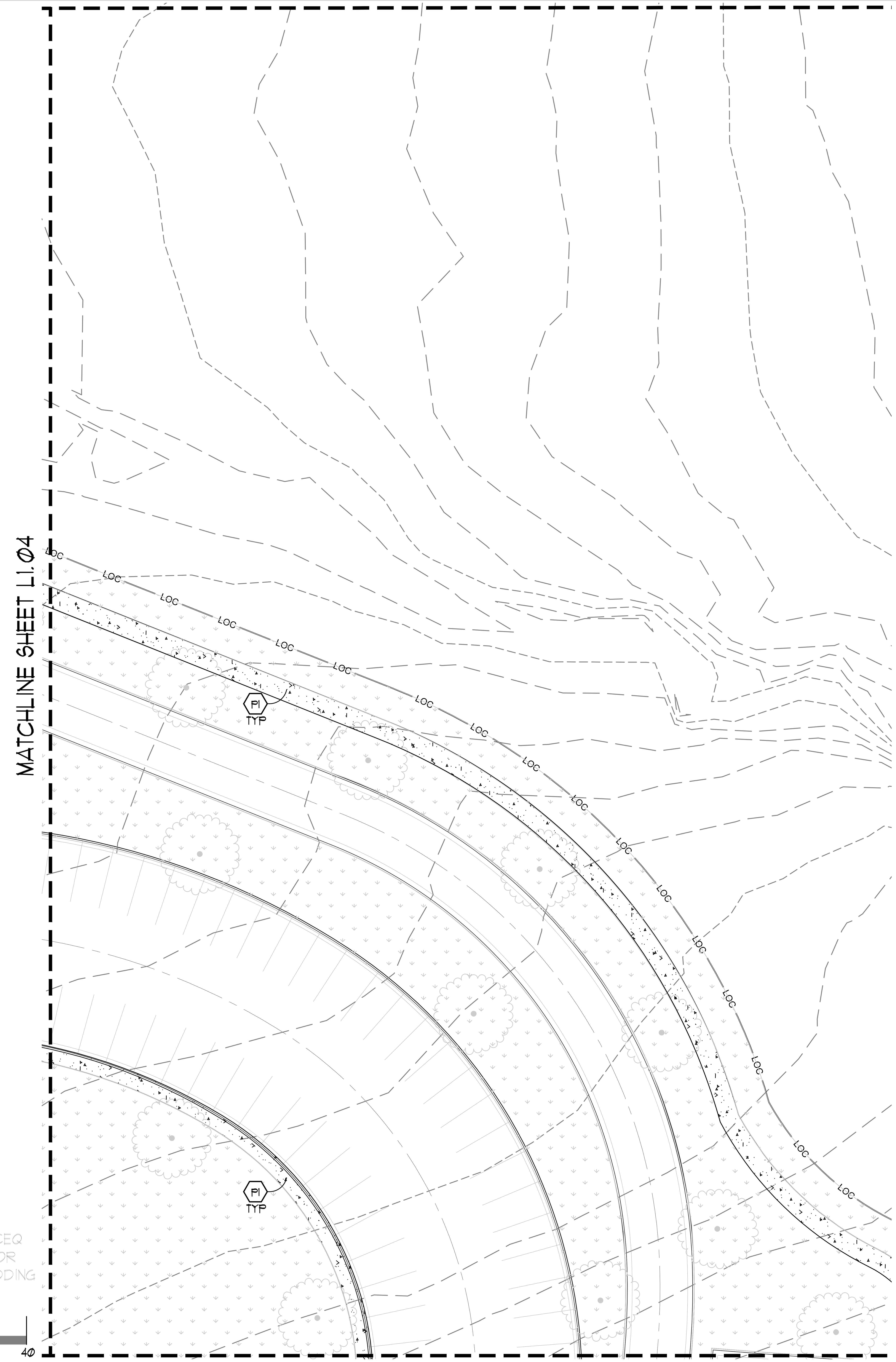

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NORTH SCALE 1" = 20'
0 10 20 40

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1	▢	CONCRETE PAVEMENT, **FINISH:** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2	▨	PAVERS ON CONCRETE **MANUFACTURER:** KEYSTONE HARDSCAPES **PAVER SIZE:** 3 X 18 VERONA **FINISH:** QUARTEX **COLOR:** TBD	4 / L1.15
P3		CONCRETE STEPS	1 / L1.16
P4		CONCRETE RAMP	2 / L1.16
P5	▦	MULCH TRAIL	1 / L1.17
E1	▭	9" WIDE CONCRETE MOW BAND	1/L1.15
G1	▬	GRAVEL MAINTENANCE BAND	2/L1.15
G2	▦	GRAVEL PAVE SYSTEM	
R1	— HR1 —	FSR HANDRAIL, BY VIVA RAILING, OR APPROVED EQUAL	
R2	— HR2 —	CIRCA GUARDRAIL SYSTEM WITH VERTICAL PICKET PANELS AND ATTACHED HANDRAIL, BY VIVA RAILING	
W1	▬	SEAT WALL	
W2	▬	SCREEN WALL	
W3	▬	RETAINING WALL	

LANDSCAPE KEY

SYM	DESCRIPTION
⬡	ORNAMENTAL TREE
○	MEDIUM TREE
○	SHADE TREE
▢	SOD
▢	SEED
▩	PLANTING AREA
○	EXISTING TREE TO BE SAVED
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NOTES:
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REGISTERED LANDSCAPE ARCHITECT
874
STATE OF TEXAS
11/15/2023

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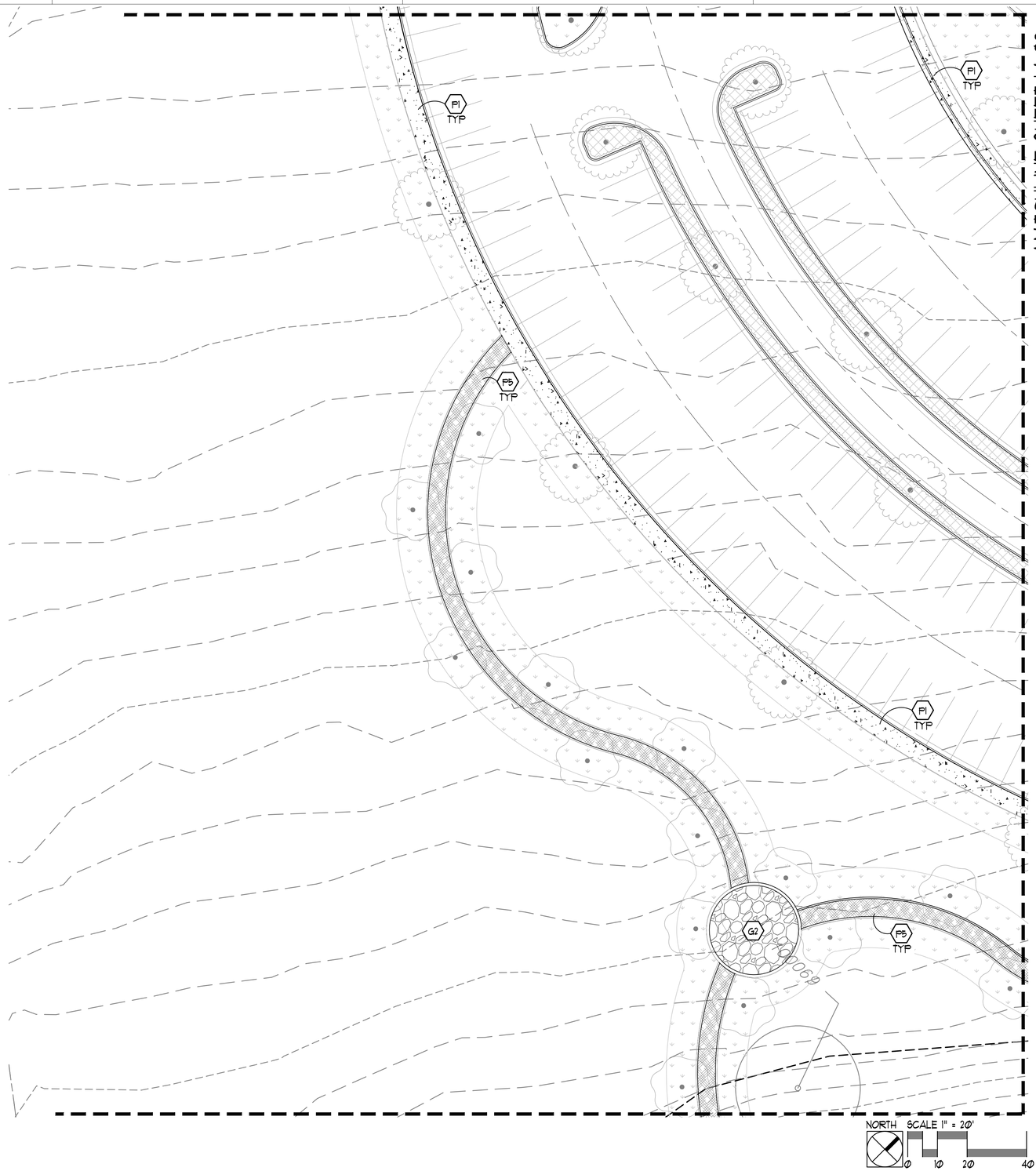

MATCHLINE SHEET L1.09

CONSTRUCTION KEY

KEY NOTE	SYM	DESCRIPTION	DETAIL
P1		CONCRETE PAVEMENT, **FINISH:** MEDIUM BROOM, REF. CIVIL FOR DEPTH AND REINFORCEMENT	REF. CIVIL
P2		PAVERS ON CONCRETE **MANUFACTURER:** KEYSTONE HARDSCAPES **PAVER SIZE:** 3 X 18 VERONA **FINISH:** QUARTEX **COLOR:** TBD	4 / L1.15
P3		CONCRETE STEPS	1 / L1.16
P4		CONCRETE RAMP	2 / L1.16
P5		MULCH TRAIL	1 / L1.17
E1		9" WIDE CONCRETE MOW BAND	1/L1.15
G1		GRAVEL MAINTENANCE BAND	2/L1.15
G2		GRAVEL PAVE SYSTEM	
R1	HR1	FSR HANDRAIL, BY VIVA RAILING, OR APPROVED EQUAL	
R2	HR2	CIRCA GUARDRAIL SYSTEM WITH VERTICAL PICKET PANELS AND ATTACHED HANDRAIL, BY VIVA RAILING	
W1		SEAT WALL	
W2		SCREEN WALL	
W3		RETAINING WALL	

LANDSCAPE KEY

SYM	DESCRIPTION
	ORNAMENTAL TREE
	MEDIUM TREE
	SHADE TREE
	SOD
	SEED
	PLANTING AREA
	EXISTING TREE TO BE SAVED
	EXISTING TREE TO BE REMOVED

NOTES.:
1. REF. LANDSCAPE SHEETS FOR ALL TREE & SHRUB LOCATIONS. TREE SHOWN FOR COORDINATION PURPOSES ONLY ON THIS SHEET.

* DRAWING SET FOR TCEQ REVIEW ONLY - NOT FOR CONSTRUCTION OR BIDDING

MarmonMok
ARCHITECTURE
San Antonio Tx. • 1020 NE Loop 410, Suite 201, 78209
Austin Tx. • 900 E 6th St. Suite 105, 78702

REGISTERED LANDSCAPE ARCHITECT ANN G. COLEMAN 874 STATE OF TEXAS
11/15/2023

COLEMAN ASSOCIATES

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY

Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

Drawn	ANS
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Date	October 27, 2023
Project No.	22020
Revisions	

SHEET TITLE
HARDSCAPE PLAN

SHEET NO.
L1.08

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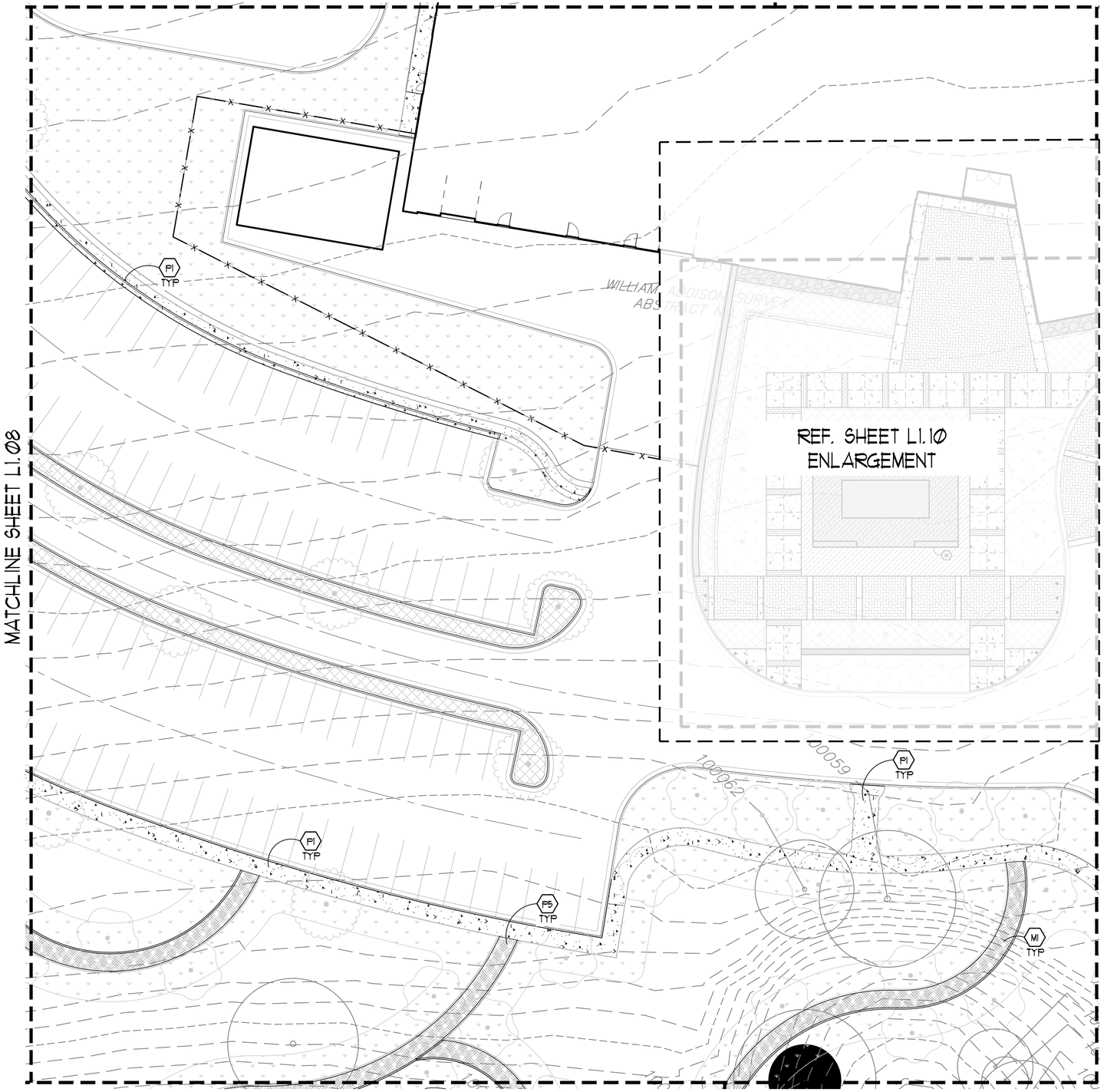

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CONSTRUCTION KEY

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P4		CONCRETE RAMP	2 / L1.16
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G2		GRAVEL PAVE SYSTEM	
R1	HR1	FSR HANDRAIL, BY VIVA RAILING, OR APPROVED EQUAL	
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W1		SEAT WALL	
W2		SCREEN WALL	
W3		RETAINING WALL	

LANDSCAPE KEY

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REGISTERED LANDSCAPE ARCHITECT
STATE OF TEXAS
11/15/2023

COLEMAN ASSOCIATES

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY
Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

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SHEET TITLE
HARDSCAPE PLAN

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L1.09

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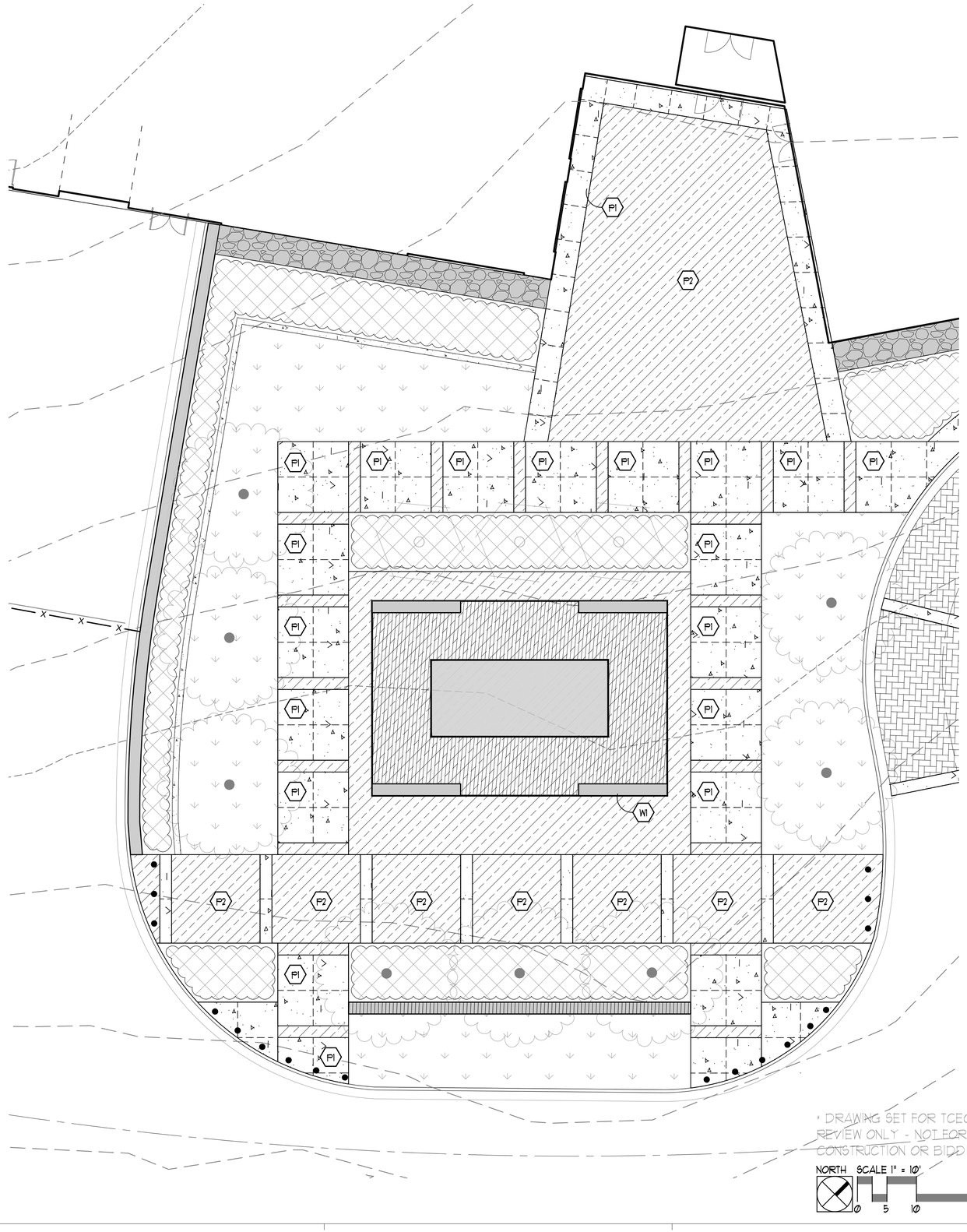

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NORTH SCALE 1" = 10'

0 5 10 20

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11/15/2023

COLEMAN ASSOCIATES

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Southwestern Blvd. / SE Inner Loop
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WILCO TEXAS

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SHEET TITLE
HARDSCAPE ENLARGEMENT

SHEET NO.
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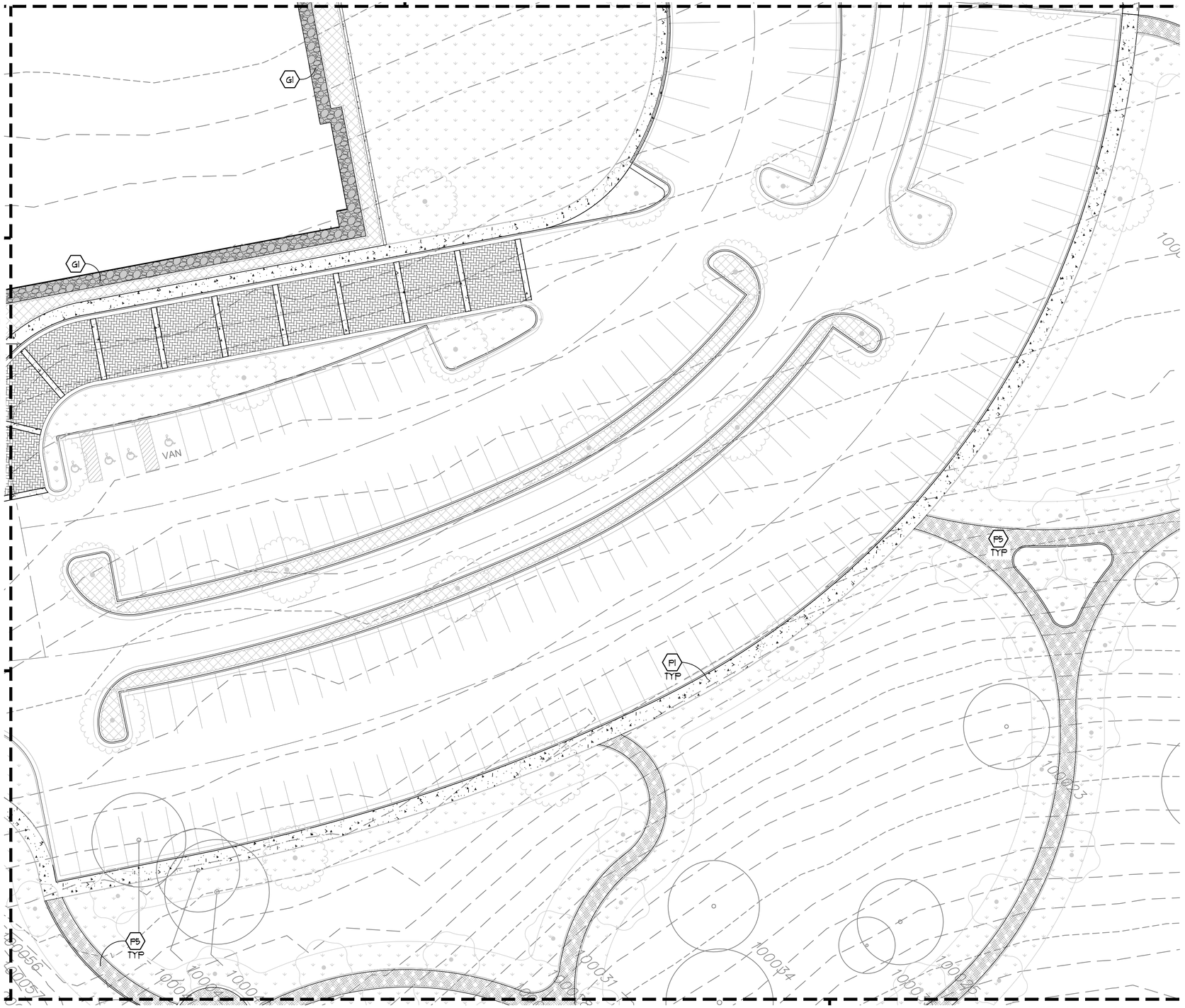

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NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY

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SHEET TITLE
HARDSCAPE PLAN

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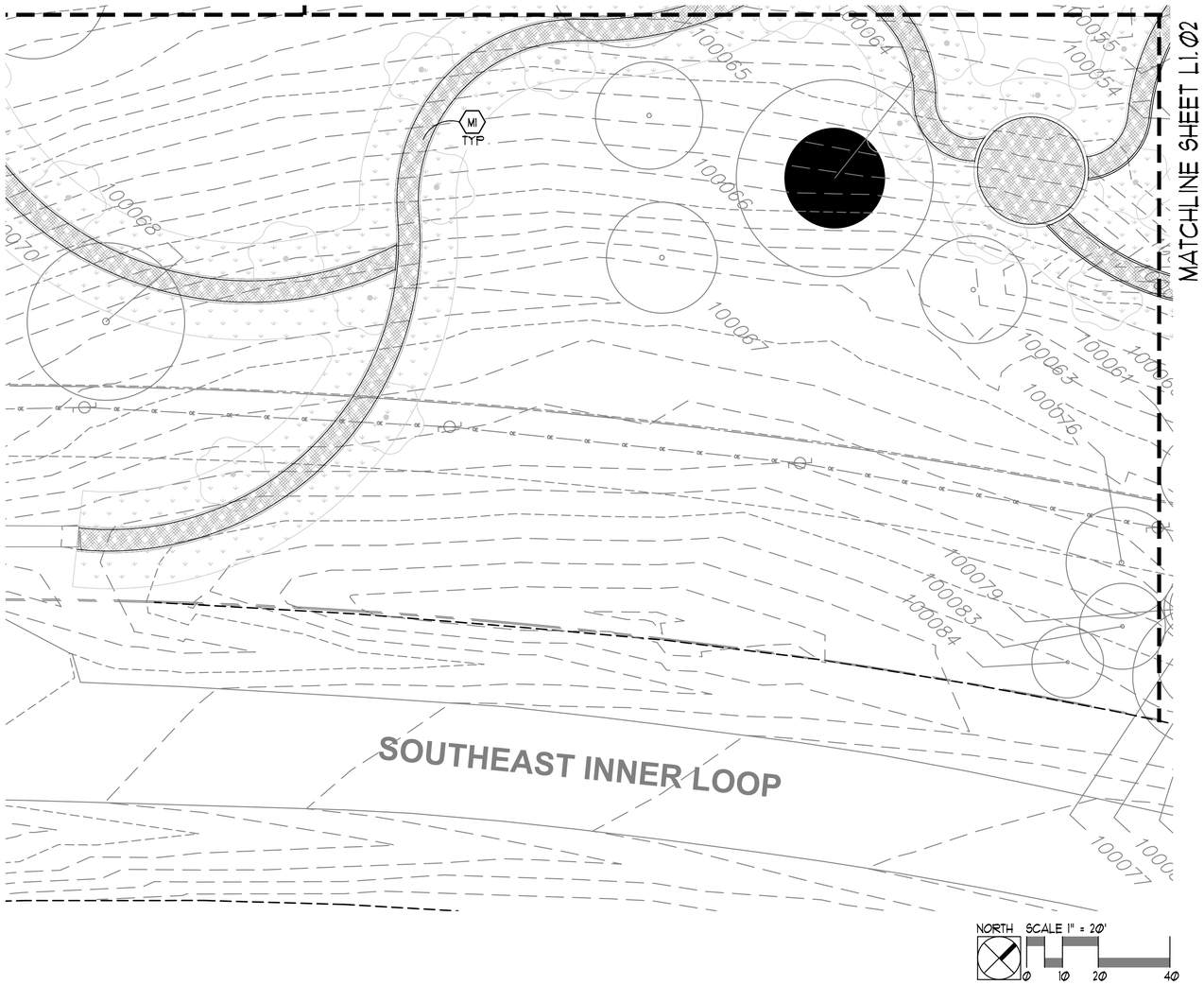

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NEW WILLIAMSON COUNTY
HEADQUARTERS FACILITY

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Georgetown, Tx. 78626

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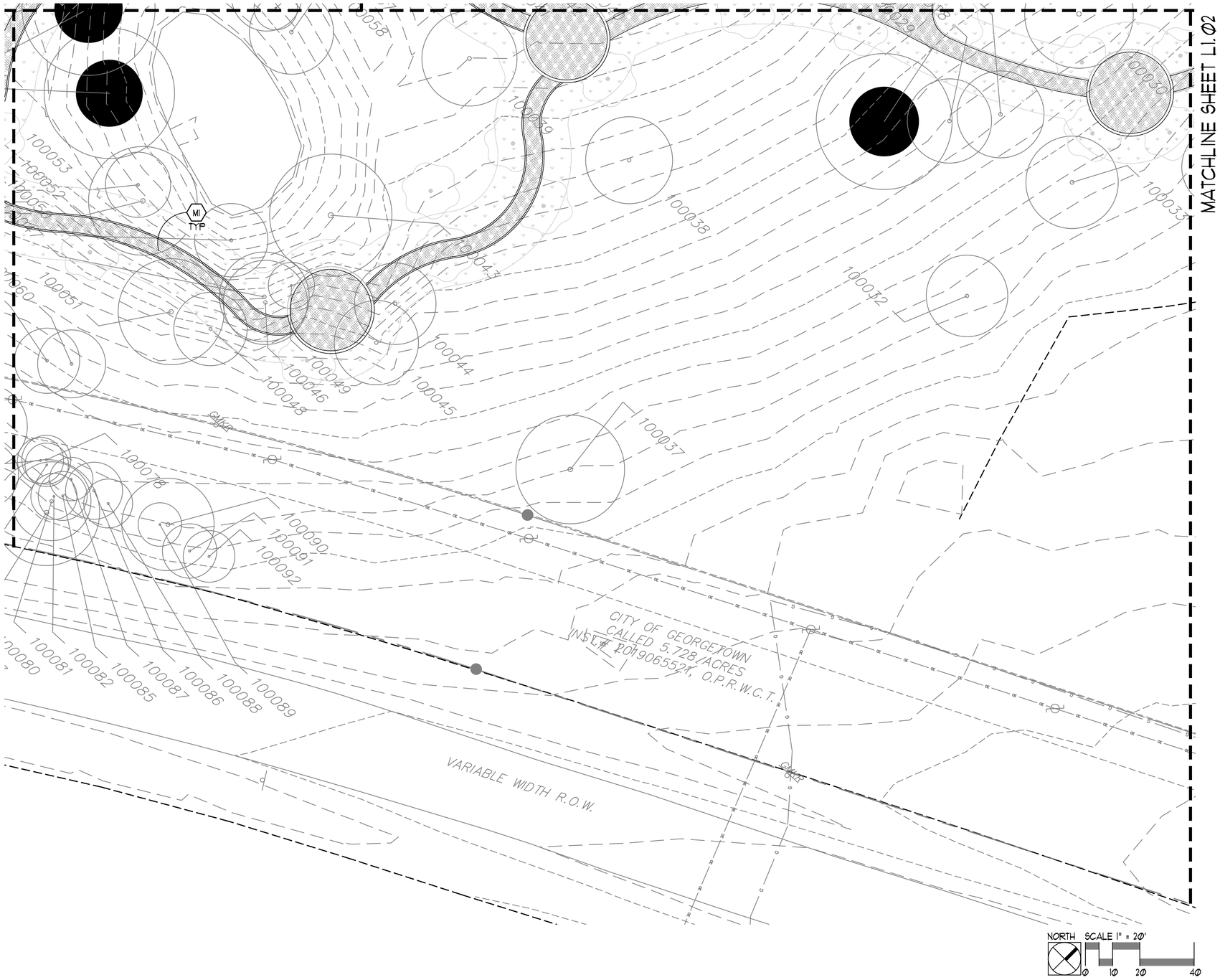

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LANDSCAPE KEY

SYM	DESCRIPTION
	ORNAMENTAL TREE
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NEW WILLIAMSON COUNTY
HEADQUARTERS FACILITY

Southwestern Blvd. / SE Inner Loop
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SHEET TITLE
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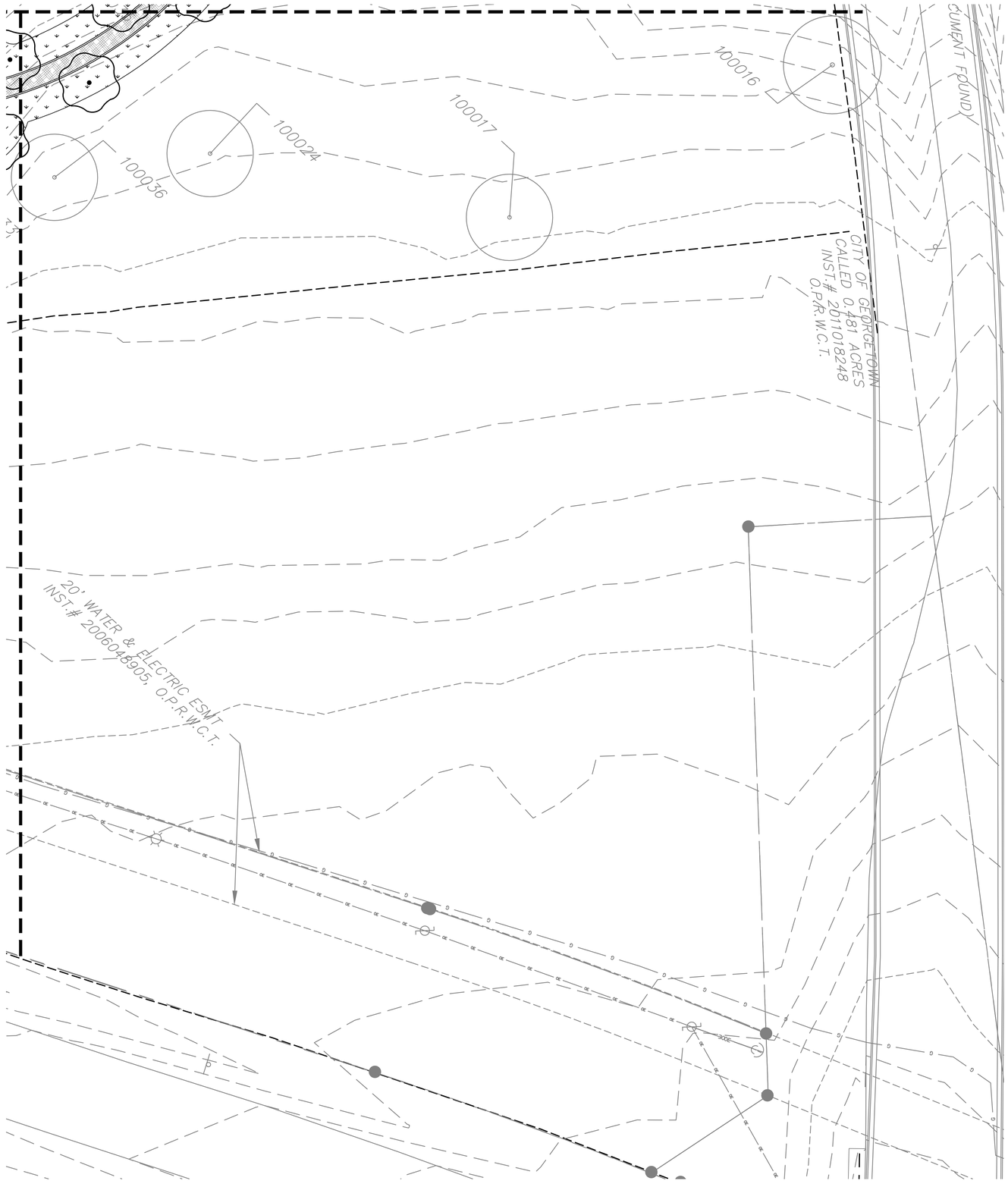

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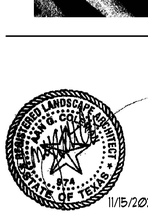

REGISTERED LANDSCAPE ARCHITECT
STATE OF TEXAS
2574
11/15/2023

COLEMAN ASSOCIATES

NEW WILLIAMSON COUNTY HEADQUARTERS FACILITY

Southwestern Blvd. / SE Inner Loop
Georgetown, Tx. 78626

WILCO TEXAS

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SHEET TITLE
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ATTACHEMENT G – INSPECTION MAINTENANCE, REPAIR AND RETROFIT PLAN

ATTACHMENT G - INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

Inspection, Maintenance, Repair and Retrofit Plan, and Schedule for Batch Detention BMP

PROJECT NAME: New Williamson County Headquarters Facility
ADDRESS: Southwestern Blvd/SE Inner Loop
CITY, STATE ZIP: Georgetown, TX 78626

BATCH DETENTION
Routine Maintenance:

Inspections. BMP facilities should be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately.

Sediment Removal. Remove sediment from the facility when sediment depth reaches 3 inches or when the sediment interferes with the health of vegetation or ability of the facility to meet required drawdown times. Sediment removal should be performed at least every 2 years.

Drain Time. When the drain time exceeds 72 hours as observed in the observation well, the filter media should be removed and replaced with more permeable material.

Vegetation. All dead and diseased vegetation considered beyond treatment shall be removed and replaced during semi-annual inspections. Diseased trees and shrubs should be treated during inspections. Remulch any bare areas by hand whenever needed. Replace mulch annually in the spring, or more frequently if needed, in landscaped areas of the basin where grass or groundcover is not planted. Grass areas in and around bioretention facilities must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

Debris and Litter Removal. Debris and litter will accumulate in the facility and should be removed during regular mowing operations and inspections.

An amended copy of this document will. be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party for Maintenance: Williamson County Facilities Management

Address: 3101 SE Inner Loop

City, State, Zip: Georgetown, TX 78626

Telephone Number: 512-943-1599

Signature of Responsible Party:

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

I Dale Butler,
Print Name

Senior Director,
Title - Owner/President/Other

of Williamson County,
Corporation/Partnership/Entity Name

have authorized Mauricio Silveyra
Print Name of Agent/Engineer

of Garza EMC
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

11-9-23
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Dale Butler 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 09 day of November, 2023

Rachel Vrabel
NOTARY PUBLIC

RACHEL LYNN VRABEL
Notary ID #133990430
My Commission Expires
September 29, 2026

Rachel Vrabel
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 09-29-2026

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: New Williamson County Headquarters Facility
Regulated Entity Location: Southwestern Blvd/ S.E. Inner Loop
Name of Customer: Williamson County
Contact Person: Dale Butler Phone: (512)943-1599
Customer Reference Number (if issued):CN 600897888
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	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	37.6 Acres	$ 6,500
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: _____

Application Fee Schedule

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

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 600897888		**RN**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	11/16/2023

☐ 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	

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	**13. Independently Owned and Operated?**
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher	☐ **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:	3101 SE Inner Loop						
	City	Georgetown	**State**	TX	**ZIP**	78626	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	dbutler@wilco.org

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(512) 943-1599		( ) -

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.)*

New Williamson County Headquarters Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	Southwestern Blvd/ S.E. Inner Loop							
	City	Georgetown	**State**	TX	**ZIP**	78626	**ZIP + 4**	
24. County	Williamson							

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

25. Description to Physical Location:	Located at the intersection of Southwestern Blvd and Southeast Inner Loop				
26. Nearest City			**State**	**Nearest ZIP Code**	
Georgetown			TX	78626	

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	37	13.2	97	39	10.9

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)
9199	0403	921190	921110

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

New Williamson County Headquarters Facility for administrative and business operations to support County governance

34. Mailing Address:	**3101 SE Inner Loop**							
	City	**Georgetown**	**State**	**TX**	**ZIP**	**78626**	**ZIP + 4**	
35. E-Mail Address:	**dbutler@wilco.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 943-1599		( ) -

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:	Mauricio Silveyra	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 298-3284		**( )** -	msilveyra@garzaemc.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:	GarzaEMC	**Job Title:**	Project Manager	
Name *(In Print):*	Mauricio Silveyra		**Phone:**	**(** 512 **)** 298- **3284**
Signature:			**Date:**	11/16/2023