WATER POLLUTION ABATEMENT PLAN

SE INNER LOOP INDUSTRIAL GEORGETOWN, WILLIAMSON COUNTY, TEXAS

Prepared For: BUILDING PLASTICS INC.

3263 Sharpe Ave Memphis, TN 38111

Prepared By: KIMLEY-HORN AND ASSOCIATES, INC.

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Firm No. 928 KHA Project No. 064316046



11/07/2023

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SECTION 1: EDWARDS AQUIFER APPLICATION COVER PAGE

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512 646 2237

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 <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> 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: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 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

- 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: SE Inner Loop Industrial				2. Regulated Entity No.:				
3. Customer Name: Building Plastics, Inc.			4. Cu	4. Customer No.:				
5. Project Type: (Please circle/check one)			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		e (acres):	9.441			
9. Application Fee: \$5,000 10		10. Permanent E		BMP(s):		Batch Detention		
11. SCS (Linear Ft.):	1. SCS (Linear Ft.): N/A 12. AST/UST (N		ST (N	lo. Tanks):		N/A		
13. County: Williamson 14. Watershed:			Granger Lake-San Gabriel River		San Gabriel River			

Application Distribution

Г

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

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

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

Austin Region						
County: Hays		Travis	Williamson			
Original (1 req.)		—	_X_			
Region (1 req.)		_	_ <u>X_</u>			
County(ies)			<u>_X_</u>			
Groundwater Conservation District(s)	Barton Springs/		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		

Austin Region

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.

Michael Lee, PE

Print Name of Customer/Authorized Agent

11/07/2023

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):				
Core Data Form Complete (Y/N):	Check: Signed (Y/N):			
Core Data Form Incomplete Nos.:	Less than 90 days old (Y/N):			

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SECTION 2: GENERAL INFORMATION

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512 646 2237

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: Michael Lee, PE

Date: <u>11/07/2023</u>

Signature of Customer/Agent:

Project Information

- 1. Regulated Entity Name: SE Inner Loop Industrial
- 2. County: Williamson
- 3. Stream Basin: San Gabriel
- 4. Groundwater Conservation District (If applicable): N/A
- 5. Edwards Aquifer Zone:

\ge	Recharge Zone
	Transition Zone

6. Plan Type:

Х	WPAP
	SCS
	Modification

AST
UST
Exception Request

TCEQ-0587 (Rev. 02-11-15)

7. Customer (Applicant):

Contact Person: <u>Wally McAlexander</u> Entity: <u>Building Plastics, Inc.</u> Mailing Address: <u>3263 Sharpe Avenue</u> City, State: <u>Memphis, TN</u> Telephone: <u>(901) 745-6351</u> Email Address: <u>wmcalexander@bpiteam.com</u>

Zip: <u>38111</u> FAX: <u>(901) 745-6344</u>

8. Agent/Representative (If any):

Contact Person: Michael Lee, PEEntity: Kimley-Horn & AssociatesMailing Address: 5301 Southwest Pkwy, Bldg 2, Ste 100City, State: AustinZip: 78735Telephone: (512) 646-2237FAX: ______Email Address: michael.lee@kimley-horn.com

9. Project Location:

 \boxtimes The project site is located inside the city limits of <u>Georgetown, TX</u>.

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.

<u>The 9.441-acre site is located off SE Inner Loop, within the City of Georgetown.</u> <u>Williamson County tax parcel R518943</u>

- 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. X 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:

 \boxtimes Project site boundaries.

 \boxtimes USGS Quadrangle Name(s).

- \boxtimes 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.

- \boxtimes Survey staking will be completed by this date: <u>12/25/2023</u>
- 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)

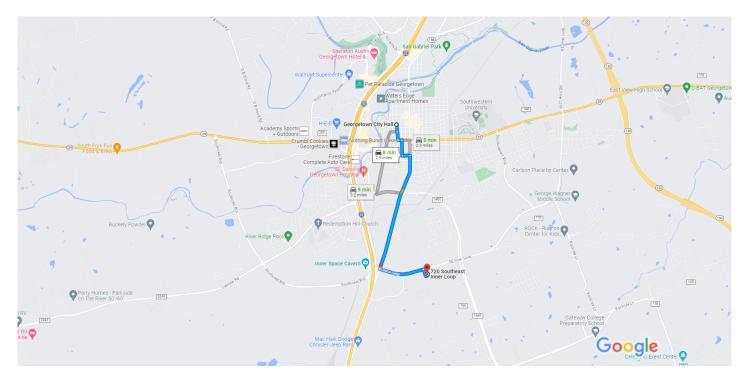
- 20. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies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

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ATTACHMENT A: Road Map

Google Maps Ge

Georgetown City Hall, 808 Martin Luther King Jr St,Drive 2.9 miles, 8 minGeorgetown, TX 78626 to 720 SE Inner Loop, Georgetown, TX 78626



Map data ©2023 Google 2000 ft

	via S Austin Ave Fastest route now due to traffic conditions	8 min 2.9 miles
	via S Austin Ave and SE Inner Loop	8 min 2.9 miles
	via Railroad Ave and S Austin Ave	9 min 3.2 miles

Explore nearby 720 SE Inner Loop

Restaurants Hotels Gas stations Parking Lots More

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ATTACHMENT B: USGS Edwards Recharge Zone Map



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



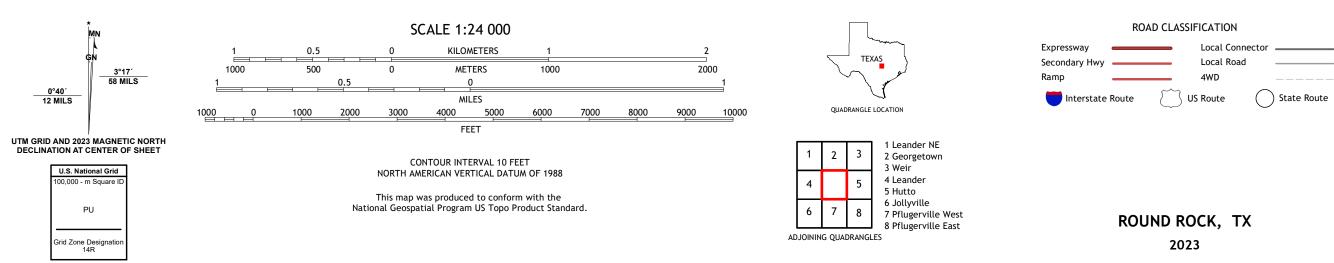


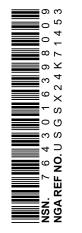




Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14R This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.... Roads..... Names..... Hydrography..... Contours..... Boundaries.....Mu ..FWS National Wetlands Inventory Not Available Wetlands....





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ATTACHMENT C: Project Description

Summary of Development

The project proposes to construct an industrial warehouse along with new utility connections, two driveway connections and a stacked water quality and detention pond.

Subdivision

The site is composed of one Williamson County tax parcel (R518943). The property qualifies for a Plat Certification Letter under the exemption listen in UDC 3.80.020.B, "A division of land into parts greater than five acres, where each part has at least 25 feet of frontage on a public street and no public improvement, including right-of-way, easement, or physical improvement of any kind intended for public use, is proposed."

Zoning

The site is in Williamson County and the City of Georgetown. The zoning is classified as Business Park. The site has an impervious cover ratio of 62% with a maximum allowable impervious cover of 63%.

Existing Drainage

The site consists of two on-site drainage areas (EX-1 and EX-2) and three off-site drainage areas (OFF-1, OFF-2, and OFF-3) with two points of analysis (POA-1 and POA-2).

Existing drainage area OFF-2 contains the proposed area draining to the detention pond proposed in the Blue Springs Business Park development (SP-2021-58-SDP). This pond outfalls in the existing channel in the south side of our site then flows to Point of Analysis 1.

Drainage Areas EX-2, OFF-1, and OFF-3 all flow to the SE Inner Loop Right of Way north of our site. These areas contribute 52.51-cfs of flow in the 100-yr condition to the culvert along SE Inner Loop analyzed as Point of Analysis 2.

Proposed Drainage & Detention

The site proposes more impervious cover and higher flow rates than in existing conditions; therefore detention will be required. Additionally, this site is located in the Edwards Aquifer Recharge Zone, therefore stormwater treatment will be required by the Texas Commission on Environmental Quality (TCEQ).

Proposed drainage areas DA-1 and OFF-1 will flow to the proposed on-site stacked water quality and detention pond, where the proposed impervious cover will be treated and flows will be detained to match existing conditions. This pond outfalls at Point of Analysis 1, and uses flow spreaders to spread the flow back to existing conditions.

Drainage Areas DA-2 and OFF-2 have no increased flow rate, or additional impervious cover than in existing conditions therefore detention and water quality will not be required. These areas bypass the proposed pond and outfall at Point of Analysis 1.

Drainage Areas DA-3 and OFF-3 flow to the culvert in the SE Inner Loop Right of Way north of our site labeled Point of Analysis 2. The flow rates to this culvert in proposed conditions do not exceed existing conditions.

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Water Quality

Detention and Water Quality are required per City of Georgetown and Texas Commission of Environmental Quality (TCEQ). The site proposes one stacked water quality batch system and detention pond that detains and treats 5.58-acres of impervious cover from Drainage Area DA-1. The water quality pond will be designed to treat 85% TSS as required by the City of Georgetown. The total capture volume required by the City of Georgetown for this development is 21,439 cubic feet. A 30" diameter smartpond trash screen with perforated riser will treat this volume of stormwater. In a 48-hour period this flow will then outfall through a 6" smartpond outfall valve at Point of Analysis 1.

Erosion and Sedimentation Controls

Temporary erosion and sedimentation controls during construction are proposed on the Erosion Control Plan and include a silt fence, tree protection, inlet protection, rock berm, and a stabilized construction entrance designed to City of Georgetown criteria. An erosion control plan has been included with the site construction plans.

Kimley *Whorn*

SECTION 3: GEOLOGIC ASSESSMENT

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512 646 2237

Geologic Assessment for the SE Inner Loop Industrial Project

City of Georgetown, Williamson County, Texas

JANUARY 2023 AMENDED NOVEMBER 2023

PREPARED FOR Building Plastics, Inc.

PREPARED BY

SWCA Environmental Consultants Texas Board of Professional Geoscientists, Firm Registration No. 50159



GEOLOGIC ASSESSMENT FOR THE SE INNER LOOP INDUSTRIAL PROJECT

GEORGETOWN, WILLIAMSON COUNTY, TEXAS

Prepared for

Building Plastics, Inc. 3263 Sharp Avenue Memphis, TN, 38111

Prepared by

Luke Rome, P.G. Ben Dilly, P.G. Phil Pearce, P.G.

SWCA Environmental Consultants Texas Board of Professional Geoscientists, Firm Registration No. 50159 4407 Monterey Oaks Boulevard Building 1, Suite 110 Austin Texas 78749 www.swca.com

SWCA Project No. 78093

January 2023 Amended November 20



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Appendix A	Texas Commission on Environmental Quality (TCEQ) Forms
	Attachment A – Geologic Assessment Table
	Attachment B – Stratigraphic Column
	Attachment C – Narrative Description of Site Geology
	Attachment D – Site Geologic Map
	Attachment E – Soils Map
	Attachment F – Photographic Log

Figures

Tables

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1 INTRODUCTION

The Client proposes development on a 9.48-acre property located off of SE Inner Loop in Georgetown, Williamson County, Texas. The limits of the site Geologic Assessment (project area) lie within the Edwards Aquifer Recharge Zone (EARZ).

It is SWCA's understanding that the total project disturbance is to-be-determined based upon the final design. SWCA Environmental Consultants (SWCA) was contracted to conduct a geologic assessment of the project area and prepare this geologic assessment report. This narrative geologic assessment report accompanies the Texas Commission on Environmental Quality (TCEQ) geologic assessment form TCEQ-0585 completed for the project in the City of Georgetown, Williamson County, Texas.

2 METHODOLOGY

Prior to conducting the geological assessment field survey, SWCA scientists studied documents pertaining to known caves within the vicinity of the project area in an attempt to gather information related to documented caves (unpublished data related to SWCA et al. 2008 and other area projects). SWCA also examined aerial photography (current and historic), U.S. Geological Survey (2019) topographic maps, mapped fault lines, and project area geology.

SWCA scientists conducted the field survey on December 22, 2022. The field survey was completed by walking parallel transects spaced approximately 50 feet apart as directed by the TCEQ (2004) in the *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (Rev. 10-01-04). Closer spacing was used where vegetation inhibited clear observation. The SWCA geologist carefully examined all potential karst features for subsurface extent, including depressions, holes, and animal burrows. SWCA used several techniques for this effort, including probing with a digging implement to determine the thickness and consistency of fill material and feeling for air flow, which may indicate the presence of a sub-surface void space. Other techniques included recording notable feature characteristics, such as vegetation types or a semi-circular burrow mound produced by small mammal activity.

3 RESULTS

3.1 Project Overview

The project area is within the Recharge Zone of the Northern Segment of the Edwards Aquifer (TCEQ 2022). The project area consists a rural property that is cleared and mowed on the western portion. Scrub-shrub brush is present on the eastern portion of the project area. The elevation of the project area ranges from approximately 760 to 780 feet above mean sea level.

1

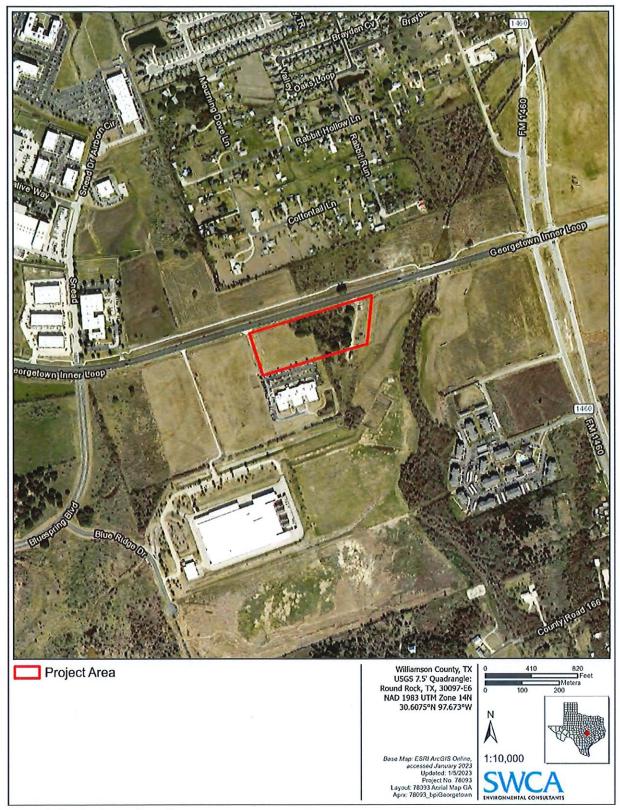


Figure 1. Project area location map.

3.2 Geology

The project area occurs along the eastern portion of the Balcones Fault Zone (BFZ) within the Edwards Aquifer Recharge Zone. Structural down-warping occurred with the ancestral formation of the Gulf of Mexico during the middle Tertiary. The earth's crust was stretched in response and the BFZ formed along a zone of weakness, which currently marks the boundary between the Edwards Plateau and the Gulf Coastal Plain in central Texas. This zone is characterized by a series of northeast-trending, predominantly normal, nearly vertical, en echelon faults. No faults cross the project area (Collins 2005). The regional trend of the mapped faults within the area is approximately 20 degrees, therefore, any features within 15 degrees (5 to 35 degrees) will be awarded an additional 10 points on the geologic assessment table in Appendix A, Attachment A.

Rock outcropping within the project area is Cretaceous in age and consists of Georgetown Formation. The geology of the project area has been mapped most recently at a useful scale by Collins (2005), and SWCA finds this interpretation of the geology to be generally accurate. Rock outcrop was not visible in the project area. A stratigraphic column is included in Appendix A, Attachment B.

The project area is mapped as Georgetown Formation (Kgt) by Collins (2005) (Appendix A, Attachment D). The Georgetown Formation (Kgt) is described by Collins (2005) as:

limestone and marl; mostly limestone, fine grained, argil-laceous, nodular, moderately indurated, light gray; some limestone, hard, brittle, thick bedded, white; some shale, marly, soft, light gray to yellowish gray; marine megafossils include Kingena wacoensis and Gryphaea washitaensis; thickness 30-80 feet, thins southward

Recharge into the Edwards Aquifer primarily occurs in areas where the Edwards Limestone or Georgetown Formation is exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features commonly form along joints, fractures, and bedding plane surfaces in the Edwards Limestone or Georgetown Formation.

Inner Space Caverns, an extensive cavern system, is located approximately 0.8 miles upgradient to the west of the project area. This is not likely to affect the project area.

3.3 Soils

The Natural Resources Conservation Service (2023) has mapped Three soil units within the project area (Table 1). The locations of soils occurring within the project area have been depicted on a figure in Appendix A, Attachment E.

whe Do

Table 1. Project Area Soils

Soil Name	Hydric	Hydrologic Soil Group*	Drainage Class	Frequency of Flooding/ Ponding
AsB: Austin silty clay, 1 to 3 percent slopes	No	D	Well drained	None
AwD3: Austin-Whitewright complex, 2 to 6 percent slopes, eroded	No	D	Well drained	None
SvB: Heiden clay, 1 to 3 percent slopes	No	D	Well drained	None

Data Source: Natural Resources Conservation Service 2020.

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

3.4 Site Hydrogeologic Assessment

SWCA did not identify any features within the project area during the geologic assessment field survey. (Appendix A, Attachment A Photographs of the site can be found in Appendix A, Attachment F.

The depth to water has been measured between 103 and 107 feet below ground surface in nearby water well State ID No. 58-18-403. This well has a land surface elevation of 805 feet amsl, 25-45 feet greater than that at the project area. Based on this well measurement in the Edwards formation, the estimated depth to water on the project area is 62 to 82 feet (TWDB 2023).

3.5 Conclusion

The geologic assessment on the approximate 9.48 SE Inner Loop Industrial project did not identify any geologic or manmade features within the project area. Additionally, there were no streams or springs identified within the project area.

4 LITERATURE CITED

- Collins, E.W. 2005. Geologic Map of the West Half of the Taylor, Texas, 30 X 60 Minute Quadrangle: Central Texas Urban Corridor, Encompassing Round Rock, Georgetown, Salado, Briggs, Liberty Hill, and Leander. University of Texas at Austin, Bureau of Economic Geology. Miscellaneous Map 43. 1:100,000.Natural Resources Conservation Service. 2022. Soil Survey Staff, Natural Resources Conservation Service, U.S. Department of Agriculture. Web Soil Survey. Available at: http://websoilsurvey.nrcs.usda.gov/. Accessed November 2022.
- Natural Resources Conservation Service. 2023. Soil Survey Staff, Natural Resources Conservation Service, U.S. Department of Agriculture. Web Soil Survey. Available at: <u>http://websoilsurvey.nrcs.usda.gov/</u>. Accessed January 2023.
- SWCA Environmental Consultants (SWCA), Smith, Robertson, Elliott, Glen, Klein, & Bell, LLP, Prime Strategies, Inc., Texas Perspectives, Inc. 2008. Williamson County Regional Habitat Conservation Plan. Prepared for Williamson County Conservation Foundation and The Honorable Lisa Birkman.
- Texas Commission on Environmental Quality. (TCEQ). 2004. Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones. TCEQ-0585-Instructions (Rev. 10-01-04).
- 2022. Edwards Aquifer Viewer v3.8. Available at: <u>http://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=2e5afa3ba8144c30a49d3dc1ab49</u> <u>edcd</u>. Accessed December 2022.
- Texas Water Development Board (TWDB). 2023. Water Data Interactive— Viewer. Available online at: https://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer. Accessed January 2023.
- U.S. Geological Survey. 2019. 7.5-minute Topographic Map of the *Round Rock Quadrangle 2019*. U.S. Department of the Interior, U.S. Geological Survey. Scale 1:24,000.

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APPENDIX A

Texas Commission on Environmental Quality (TCEQ) Forms

Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: Luke Rome, P.G.

Telephone: (512) 476-0891

Date: November 6, 2023

Fax: 512.476.0893

Representing: <u>SWCA Environmental Consultants (TBPG Firm Registration #50159)</u> (Name of Company and TBPG or TBPF registration number)

Company and TBPG or TBPE registration number)

Signature of Geologist:

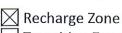
Regulated Entity Name: SE Inner Loop Industrial

Project Information

- 1. Date(s) Geologic Assessment was performed: 12/22/2022
- 2. Type of Project:

Х	WPAP
	SCS

3. Location of Project:



Transition Zone

Contributing Zone within the Transition Zone



AST UST

- 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, InfiltrationCharacteristics and Thickness

Soil Name	Group*	Thickness(feet)
AsB: Austin silty clay, 1 to		
3 percent slopes	D	6-7
AwD3: Austin- Whitewright complex, 2 to 6 percent	147	
slopes, eroded	D	6-7
SvB: Heiden clay, 1 to 3 percent slopes	D	6-7

Soil Name	Group*	Thickness(feet)
ν.		

- * Soil Group Definitions (Abbreviated) A. Soils having a high infiltration
 - rate when thoroughly wetted.
 - B. Soils having a moderate infiltration rate when thoroughly wetted.
 - C. Soils having a slow infiltration rate when thoroughly wetted.
 - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. X 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'' = 50'Site Geologic Map Scale: 1'' = 50'Site Soils Map Scale (if more than 1 soil type): 1'' = 416'

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

TCEQ-0585 (Rev.02-11-15)

Other method(s). Please describe method of data collection:

- 10. 🕅 The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
- 11. X Surface geologic units are shown and labeled on the Site Geologic Map.
- 12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
 - Geologic or manmade features were not discovered on the project site during the field investigation.
- 13. 🕅 The Recharge Zone boundary is shown and labeled, if appropriate.
- 14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

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

The wells are not in use and have been properly abandoned.

The wells are not in use and will be properly abandoned.

The wells are in use and comply with 16 TAC Chapter 76.

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

Administrative Information

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

2

ATTACHMENT A

Geologic Assessment Table

GEOL	GEOLOGIC ASSESSMENT TABLE	SSMENT TA	BLE			PROJ	PROJECT NAME: SE Inner Loop	ME: S	Elnn	er Loo		Industrial				
	IOCATION	ž				FEATURE CHARACTERISTICS	IARACTE	RISTIC	S				EVAL	JATION	EVALUATION PHYSICAL SETTING	SETTING
		12	20	22	ω	4	_	5 5A	6	7	8A	88	9	10	11	12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE	POINTS	FORMATION	DIMENSIONS (FEET)		(DEGREES) SO	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION	TOTAL	SENSITIVITY	CATCHMENT AREA (ACRES)	TOPOGRAPHY
						× Y	и	10	-					<40 <u>>40</u>	<1.6 <u>>1.6</u>	
						No Geologic Features were found	eatures w	ere foun	d.							
								_						-		
Τ							-	_	1							
							_							_		
							_									
												-				
							_							-		
* DATUN	DATUM: NAD 83															
2A TYPE		TYPE														
0	Cave				30	z	None, exposed bedrock	sed bedro	Ŗ							
SC	Solution cavity				20	0	Coarse - cobbles, breakdown, sand, gravel	obles, bre	akdown,	sand, gra	vel					
SE	Solution-enlarged fracture(s)	fracture(s)			20	0	Loose or soft mud or soil, organics, leaves, sticks, dark colors	ft mud or :	soil, orga	nics, leav	es, stick	s, dark color				
IL	Fault				20	Π	Fines, compacted clay-rich sediment, soil	acted cla	y-rich see	diment, so	il profile,	profile, gray or red colors	COIOTS			
0	Other natural bedrock features	rock features			(1)	<	Vegetation. Give details in narrative description	Give deta	ils in nar	rative des	cription					
MB	Manmade feature in bedrock	in bedrock			30	FS	Flowstone, cements, cave deposits	cements,	cave dep	osits						
SW	Swallow hole				30	×	Other materials	ials						-		
RSH	Sinkhole				20]		5					-			
8	Non-karst closed depression	depression			(1)			121	12 IOPOGRAPHY	AT HY						
Z	Zone, clustered o	Zone, clustered or aligned features			30	_	Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed	e, Drainag	e, Flood	olain, Stre	amped		_			
			l have re informat Mv signa	ad, I und ion prese	erstood, and I hav nted here complie fies that I am qua	I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a type representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist stock in the field by 20 to Chapter 213.	xas Commissio ent and is a tru statist of the ba	sion on E	on Environmental Q epresentation of the MTAC Chapter 213.	ental Qual n of the co er 213.	ity's Instr onditions	y's Instructions to Geologists nditions observed in the field	eologist the field	. The		
						ann			enecce.			Date 1/3/2022 Amended 11/06/2023	22 1/06/202	ω		
									0							
						and a		CIVIE	in			Sheet 1 of 1	-			

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



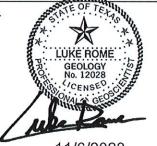
ATTACHMENT B

Stratigraphic Column

-		
		Navarro and Taylor Groups
aceous		Austin Group
Upper Cretaceous	Upper Confining Units	Eagle Ford Group
Uppe		Buda Limestone
		Del Rio Clay
		Georgetown Formation
sno	Edwards Aquifer	Edwards Limestone (Ked) – up to 300 feet thick
Cretace		Comanche Peak Formation
Lower Cretaceous		Walnut Formation
	Lower Confining Units	Upper member of Glen Rose Limestone

Stratigraphic Column

Note: The shaded areas represent the lithology that outcrops in the project area.



11/6/2023

ATTACHMENT C

Narrative Description of Site Geology

PLEASE REFER TO SECTION 3.2 OF THIS REPORT FOR GEOLOGIC NARRATIVE DESCRIPTION

ATTACHMENT D

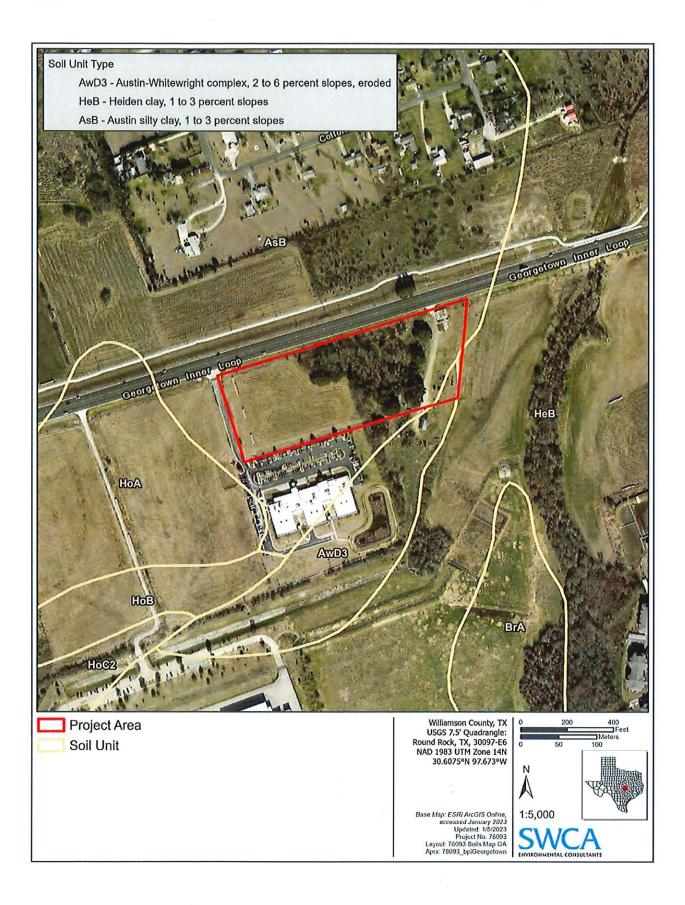
Geologic Map





ATTACHMENT E

Soils Map



ATTACHMENT F

Photographic Log



Photograph 1. Site overview photograph.



Photograph 2. Site overview photograph.

Section 4: Water Pollution Abatement Plan

kimley-horn.com 5301 Southwest Parkway, Building 2, Suite 100 Austin, Texas 78735 512

512 646 2237

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: Michael Lee, PE

Date: <u>11/07/2023</u>

Signature of Customer/Agent:

Regulated Entity Name: SE Inner Loop Industrial

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): 9.441
- 3. Estimated projected population: N/A
- 4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	108,815	÷ 43,560 =	2.50
Parking	122,247	÷ 43,560 =	2.81
Other paved surfaces	22,457	÷ 43,560 =	0.52
Total Impervious Cover	253,519	÷ 43,560 =	5.82

Total Impervious Cover 5.81 ÷ Total Acreage 9.44 X 100 = 62% 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 = _____ $Ft^2 \div 43,560 Ft^2/Acre = _____ acres.$

10. Length of pavement area: _____ feet.

Width of pavement area:feet.L x W = $Ft^2 \div 43,560 Ft^2/Acre =$ acres.Pavement areaacres ÷ R.O.W. areaacres 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:

<u>100</u> % Domestic	<u>6,120</u> Gallons/day
% Industrial	Gallons/day
% Commingled	Gallons/day
TOTAL gallons/day <u>6,120</u>	-

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 <u>San Gabriel</u> (name) Treatment Plant. The treatment facility is:

\ge	Existing.
	Proposed.

16. \square 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. \square The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = <u>40</u>'.

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.	

 \boxtimes 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): <u>Federal Emergency Management Agency FLood Insurance Rate Map</u> (FEMA) and 48491C0485F dated December 20th 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.

 \boxtimes 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. \square 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. \square 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. \boxtimes 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 Water Quality

Materials that are anticipated to be used on site that could be a potential source of contamination include the following:

During Construction:

- 1. Petroleum drippings from vehicle movement
- 2. Integrated pest management
- 3. Asphalt and/or concrete products
- 4. Soil/Stockpile
- 5. Concrete and masonry materials
- Wood, plastic, and metal materials
 Tar and hydrocarbons from paving operations
- 8. Oil, grease, fuel, and hydraulic fluid from construction equipment and vehicle drippings
- 9. Fertilizers, herbicides, and pesticides
- 10. Cleaning solutions and detergents
- 11. Miscellaneous construction trash and debris
- 12. Soil erosion and sedimentation due to construction activity

Ultimate Use:

- 1. Pollutants generated from vehicles utilizing the site
- 2. Fertilizers, herbicides, and pesticides used to maintain landscaping
- 3. Miscellaneous trash and debris generated from the public

This is not intended to be an all-inclusive list. All practical management practices will be used to reduce the risk of spills and other exposure of any contaminant to surface or groundwater.

ATTACHMENT B: Volume and Character of Stormwater

Existing Drainage Conditions

The site consists of two on-site drainage areas (EX-1 and EX-2) and three off-site drainage areas (OFF-1, OFF-2, and OFF-3) with two points of analysis (POA-1 and POA-2).

Existing drainage area OFF-2 contains the proposed area draining to the detention pond proposed in the Blue Springs Business Park development (SP-2021-58-SDP). This pond outfalls in the existing channel in the south side of our site then flows to Point of Analysis 1.

Drainage Areas EX-2, OFF-1, and OFF-3 all flow to the SE Inner Loop Right of Way north of our site. These areas contribute 52.51-cfs of flow in the 100-yr condition to the culvert along SE Inner Loop analyzed as Point of Analysis 2. A table showing the summary of these existing drainage areas is provided below.

			EXISTI	NG DRAINA	GE AREA C	ALCULATION	S				
DRAINAGE AREA	AREA (ac.)	IMPERVIOUS COVER (%)	CN-VALUE (IMPERVIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₂₅ (CFS)	Q ₁₀₀ (CFS)
EX-1	4.97	5%	98	95%	80	80.9	14.1	10.07	20.04	25.73	34.72
EX-2	4.47	4%	98	96%	80	80.6	14.2	8.87	17.78	22.89	30.97
OFF-1	0.16	100%	98	0%	80	98.0	13.8	0.71	1.00	1.17	1.42
OFF-2	9.93	78%	98	22%	80	94.1	5.0	50.03	73.29	87.25	105.51
OFF-3	4.19	48%	98	52%	80	88.6	30.8	8.98	15.66	19.64	25.28

Proposed Drainage Conditions

The site proposes more impervious cover and higher flow rates than in existing conditions; therefore detention will be required. Additionally, this site is located in the Edwards Aquifer Recharge Zone, therefore stormwater treatment will be required by the Texas Commission on Environmental Quality (TCEQ).

Proposed drainage areas DA-1 and OFF-1 will flow to the proposed on-site stacked water quality and detention pond, where the proposed impervious cover will be treated, and flows will be detained to match existing conditions. This pond outfalls at Point of Analysis 1 and uses flow spreaders to spread the flow back to existing conditions.

Drainage Areas DA-2 and OFF-2 have no increased flow rate, or additional impervious cover than in existing conditions therefore detention and water quality will not be required. These areas bypass the proposed pond and outfall at Point of Analysis 1.

Drainage Areas DA-3 and OFF-3 flow to the culvert in the SE Inner Loop Right of Way north of our site labeled Point of Analysis 2. The flow rates to this culvert in proposed conditions do not exceed existing conditions. A table showing the summary of these drainage areas is provided below.

			PR	OPOSED DF	RAINAGE AREA	CALCULATIONS					
DRAINAGE AREA	AREA (ac.)	IMPERVIOUS COVER (%)	CN-VALUE (IMPERVIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₂₅ (CFS)	Q ₁₀₀ (CFS)
DA-1	6.91	79%	98	21%	80	94.3	6.0	34.14	49.80	58.97	71.67
DA-2	1.55	5%	99	95%	81	82.0	6.0	4.09	7.87	10.21	13.27
DA-3	0.98	26%	98	74%	80	84.8	6.0	3.05	5.48	6.95	8.88
OFF-1	0.16	100%	98	0%	80	98.0	6.0	0.89	1.21	1.41	1.70
OFF-2	9.93	78%	98	22%	80	94.1	5.0	50.03	73.29	87.25	105.51
OFF-3	4.19	48%	98	52%	80	88.6	30.8	8.98	15.66	19.64	25.28

ATTACHMENT C: Suitability Letter from Authorized Agent

Attachment C is not applicable for this project. An on-site sewage facility will not be implemented for this development.

ATTACHMENT D: Exception to the Required Geologic Assessment

Attachment D is not applicable for this project. A geologic assessment exemption will not be requested. MLA Geotechnical has prepared a Geologic Assessment for this site, see Geologic Assessment Form and Attachments.

Section 5: Temporary Stormwater Section

kimley-horn.com 5301 Southwest Parkway, Building 2, Suite 100 Austin, Texas 78735 51

512 646 2237

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: Michael Lee, PE

Date: <u>11/07/2023</u>

Signature of Customer/Agent:

Regulated Entity Name: SE Inner Loop Industrial

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: <u>Smith Branch Creek</u>

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.	\square	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 following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup will be maintained on-site in the material data sheets (MSDS) and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Contact the MS4 Operator, TCEQ (800-832-8224), and the National Response Center (800-424-8802) to inform of any spill of toxic or hazardous material regardless of the size.

The spill prevention plan will be adjusted to include measures to prevent this type of spill from recurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.

Reportable Quantities Link: https://www.tceq.texas.gov/response/spills/spill_rq.html

ATTACHMENT B: Potential Sources of Contamination

Surface water quality can be affected by disturbance during construction and by development after construction. Soil disturbance from clearing and grubbing and cut / fill operations can lead to discharge of sediment unless adequate temporary erosion control measures are in place. For this project, the use of silt fence, construction entrances, and rock berms will prevent sediment from leaving the site. Siltation collected by the control measures will be cleaned from fences, berms, etc. on a routine schedule as outlined in the SWPPP and contract specifications.

During construction, surface water quality may also be affected by a spill of hydrocarbons or other hazardous substances used in construction. The most likely instances of a spill of hydrocarbons or hazardous substances are:

- a) Refueling construction equipment.
- b) Oil and grease from the asphalt pavement and vehicle traffic.
- c) Performing operator-level maintenance, including adding petroleum, oils, or lubricants.
- d) Normal silt build-up.
- e) Unscheduled or emergency repairs, such as hydraulic fluid leaks.
- f) Trash with becomes loose from subdivision residents.
- g) Fertilizers used in the landscaping around the apartment buildings.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by the Reportable Quantities Table 1 (page 3) of the TCEQ's Small-Business Handbook for Spill Response (RG-285, June 1997), the contractor is required to clean up the spill and notify the TCEQ as required in RG-285. During business hours report spills to the TCEQ's Austin Regional Office at (512) 339-2929, after business hours call 1-800-832-8224, the Environmental Response Hotline or (512) 463-7727, the TCEQ Spill Reporting Hotline, which is also answered 24 hours a day.

After construction is complete, impervious cover for the tract of land is the major reason for degradation of water quality. Impervious cover includes the building foundation, street pavement and concrete sidewalks. Oil and fuel discharge from vehicles is anticipated. The proposed permanent BMPs on this project will help mitigate these occurrences.

ATTACHMENT C: Sequence of Major Activities

SEQUENCE OF CONSTRUCTION:

- 1) INSTALL EROSION CONTROLS PER APPROVED PLANS.
 - a) This activity effects less than 0.50-arces of the site, as its mostly concentrated at the borders of the site. The erosion controls will be in place for the duration of the construction and until the permanent BMPs have been established.
- 2) HOLD PRE-CONSTRUCTION CONFERENCE.
- 3) DEMOLISH, REMOVE AND DISPOSE OF PROPERLY ALL EXISTING IMPROVEMENTS SHOWN TO BE REMOVED PER PLANS.
 - a) This activity will effect approximately 0.5-acres of the site. The erosion controls initially placed will be maintained through this activity.
- 4) ROUGH-CUT ALL REQUIRED OR NECESSARY PONDS. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF ANY EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL FINAL RESTORATION IS ACHIEVED.
 - a) This activity will continue to effect the 1.25-acres of the site. This activity is preparing the site for the designed drainage condition (grading and ponds). The erosion controls initially placed will be maintained through this activity.
- 5) BEGIN CONSTRUCTION OF UNDER GROUND UTILITY, PAVING AND BUILDING, INSTALL INLET EROSION/SEDIMENTATION PROTECTION.
 - a) This activity will effect approximately 8.5-acres and the erosion controls measures initially placed will remain.
- 6) COMPLETE PERMANENT EROSION CONTROL AND SITE RESTORATION. REMOVE TEMPORARY EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION. RESTORE ANY AREAS DISTURBED DURING REMOVAL OF EROSION/SEDIMENTATION CONTROLS.
 - a) This activity will effect approximately 1.5 acres and includes placement of the permanent BMPs. The temporary BMPs will only be removed once the permanent BMPs have been established.
- 7) PROJECT ENGINEER INSPECTS JOB AND WRITES LETTER OF CONCURRENCE TO THE PERMITTING AUTHORITY, FINAL INSPECTION WILL BE SCHEDULED UPON RECEIPT OF THE LETTER.
- 8) REMOVE ALL TRASH AND DEBRIS FROM THE SITE AND DISPOSE OF LEGALLY.

ATTACHMENT D: Temporary Best Management Practices and Measures

- A. Up-gradient stormwater does exist based on current topography maps and field observations. 12.18-acres from the Blue Springs Business Park Development (2021-58-SDP) outfall onto our site from an existing detention pond. This area is conveyed across our site through an existing public drainage channel. This stormwater will not be treated nor detained with our proposed development. Another 0.07-acres of upstream flow comes from the access road adjacent to our site. This offsite area will also not be treated but will be detained in the proposed detention pond on our site. Please refer to the Proposed Drainage Area Map that is provided in Attachment G of the Temporary Stormwater Section.
- B. Temporary BMP's will be installed prior to soil disturbing construction activity. Silt fencing will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed on site to reduce vehicle "tracking" onto adjoining streets. A concrete washout pit will be used to collect all excess concrete during construction. Inlet protection will be placed over all existing and proposed inlets to stop the discharge of sediments into the sewer system. Please reference the attached copy of the Erosion and Sedimentation Control Plans for specific locations and details of all controls.

BMPs for this project will protect surface water or groundwater from turbid water, phosphorus, sediment, oil, and other contaminants, which may mobilize in storm water flows by slowing the flow of runoff to allow sediment and suspended solids to settle out of the runoff. Practices may also be implemented on site for interim and permanent stabilization. Stabilization practices may include but are not limited to establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of existing trees and vegetation, and other similar measures.

The contractor is expected to inspect the controls weekly and after significant rainfalls to ensure proper function.

- C. There are no sensitive environmental features or surface streams within the boundaries of the project. The temporary onsite BMPs will be used to treat stormwater runoff before it leaves the project and prevent pollutants from entering into surface streams or any sensitive features down-gradient of the site.
- D. There were no sensitive features on the 9.44-acre site identified during the geologic assessment. However, the BMPs for this project are designed to allow water to pass through after sedimentation has occurred. Existing flow patterns will be maintained to any naturally occurring sensitive features that are discovered during construction.

ATTACHMENT E: Request to Temporarily Seal a Feature

Naturally-occurring features will not be sealed on the site; therefore this section is not applicable

ATTACHMENT F: Structural Practices

Structural BMPs will be used to limit runoff discharge of pollutants from exposed areas of the site. BMPs will be installed prior to soil disturbing construction activity. Silt fencing will be placed along the downgradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed at the site entry/exit point to reduce tracking onto adjoining streets. A construction staging area will be used onsite to perform all vehicle maintenance and for equipment and material storage. A concrete truck washout pit will be placed on site to provide containment and easier cleanup of waste from concrete operations. The location of all structural temporary BMP's are shown on the erosion control plan sheet and details and specifications are provided on the erosion control details sheet which can be found in Attachment F of the Permanent Stormwater Section.

Description of Temporary BMP's

Temporary Construction Entrance/Exit

The purpose of a temporary gravel construction entrance is to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. A stabilized construction entrance is a stabilized pad of crushed stone located at any point traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking or flowing of sediment onto public rights-of-way. This practice should be used at all points of construction ingress and egress.

Excessive amounts of mud can also present a safety hazard to roadway users. To minimize the amount of sediment loss to nearby roads, access to the construction site should be limited to as few points as possible and vegetation around the perimeter should be protected were access is not necessary. A rock stabilized construction entrance should be used at all designated access points.

Silt Fence

The purpose of a silt fence is to intercept and detain water-borne sediment from unprotected areas of a limited extent. Silt fence is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Silt fence should not be used where there is a concentration of water in a channel or drainage way. If concentrated flow occurs after installation, corrective action must be taken such as placing a rock berm in the areas of concentrated flow.

Silt fencing within the site may be temporarily moved during the day to allow construction activity provided it is replaced and properly anchored to the ground at the end of the day. Silt fences on the perimeter of the site or around drainage ways should not be moved at any time.

Concrete Washout Area

The purpose of concrete washout areas is to prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors.

The following steps will help reduce stormwater pollution from concrete wastes:

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only.

- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.
- For onsite washout:
- Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this section, with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

Inlet Protection

In developments for which drainage is to be conveyed by underground storm sewers (i.e., streets with curbs and gutters), all inlets that may receive storm runoff from disturbed areas should be protected. Temporary inlet protection is a series of different measures that provide protection against silt transport or accumulation in storm sewer systems. This clogging can greatly reduce or completely stop the flow in the pipes. The different measures are used for different site conditions and inlet types

ATTACHMENT G: Drainage Area Map

An existing and proposed drainage area map is provided at the end of this report in Section 8 to support the aforementioned requirement.

ATTACHMENT H: Temporary Sediment Pond(s) Plans and Calculations

The proposed development will not use a temporary sediment pond, therefore this section is not applicable.

ATTACHMENT I: Inspection and Maintenance for BMPs

A. Inspection Schedule

- 1. All disturbed areas, as well as all erosion and sediment control devices, will be inspected according to one of the following schedules:
 - a) at least every seven (7) calendar days and within 24 hours after a rainfall of 0.25" or greater, or
 - b) every seven (7) days on the same day of the week each week, regardless of whether or not there has been a rainfall event since the previous inspection.
- 2. Inspections will occur on the schedule provided in this plan and any changes made to the schedule must adhere to the following:
 - a) the schedule can change a maximum of one time each month,
 - b) the schedule change must be implemented at the beginning of a calendar month, and
 - c) the reason for the schedule change must be documented in this plan (an inspection schedule form is located below).

B. Inspection Reports

- 1. Completed inspection reports (see below) will include the following information:
 - a) scope of the inspection,
 - b) date of the inspection,
 - c) name(s) of personnel making the inspection,
 - d) reference to qualifications of inspection personnel,
 - e) observed major construction activities, and
 - f) actions taken as a result of the inspection.
- 2. All disturbed areas (on and off-site), areas for material storage locations where vehicles enter or exit the site, and all of the erosion and sediment controls that were identified as part this plan must be inspected. The inspection report must state whether the site was in compliance or identify any incidents of non-compliance. The report will be signed by the qualified inspector in accordance with the TPDES general permit and filed in this plan. A sample Inspection Report is included below along with an Inspector Qualification Form. All reports and inspections required by the general construction permit will be completed by a duly authorized representative.
- 3. The operator should correct any damage or deficiencies as soon as practicable after the inspection, but in no case later than seven (7) calendar days after the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in this plan, and wherever possible, those changes implemented before the next storm event or as soon as practicable. A list of maintenance guidelines are included below.

4. Inspection reports will be kept in the Operator's file, along with this plan, for at least three years from the date that the NOT is submitted to the TCEQ for the construction site.

C. Final Stabilization

Final stabilization of the construction site has been achieved when all soil disturbing activities at the site have been completed, and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures. If a vegetative cover cannot be established, equivalent permanent stabilization measures (such as riprap, gabions, or geotextiles) can be employed. When these conditions have been met, BMPs can be removed from the construction area.

Inspector Qualifications*

Inspector Name: Qualifications (Check as appropriate and provide description): Training Course Supervised Experience Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
Supervised Experience
Other
Inspector Name:
Qualifications (Check as appropriate and provide description):
Supervised Experience
□ Other

*Personnel conducting inspections must be knowledgeable of the general permit, familiar with the construction site, and knowledgeable of the SWP3 for the site.

INSPECTION SCHEDULE

Inspections must be conducted:

- Option 1 at least once every 7 calendar days and within 24 hours of the end of a storm event of 0.25 inch or greater
- **Option 2** at least once every 7 calendar days, regardless of whether or not there has been a rainfall event since the previous inspection.

Any changes to the schedule are conducted in accordance with the following:

- the schedule is changed a maximum of one time each month,
- the schedule change must be implemented at the beginning of a calendar month, and
- the reason for the schedule change must be documented below.

Date	Schedule Option	Reason for Schedule Change

Kimley *Whorn*

Construction Site SWP3 Inspection Report

Warning No.	
ö □ Project Shutdown	

	On-	Site	Up-to-date		
SWP3	Yes No ¹		Yes	No ²	
SI					

	Project:	Date:
al ion	Address:	Inspector:
nera mati		Qualifications: see Appendix E of SWP3
for		Weather Conditions:
<u>n</u>	Owner:	Contractor:

BMP	BMP In Use		Maint. Req'd		Comments
	Yes	No	Yes ²	No	

¹The SWP3 must be retained on-site at the construction site or, if the site is inactive or does not have an on-site location to store the plan, a notice must be posted describing the location of the SWP3.

²Items marked in this column need to be addressed in the Actions to be Taken table.

ACTIONS TO BE TAKEN	RESPONSIBLE PERSON(S)	DUE DATE	DATE COMPLETED	INITIALS

NOTE: These reports will be kept on file as part of the Storm Water Pollution Prevention Plan for at least three years. A copy of the SWP3 will be kept at the site at all times during construction.

CERTIFICATION STATEMENT: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name:

Address:

Telephone:

Site Location:

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Inspector Signature:

Date:

MAINTENANCE GUIDELINES

- 1. Below are some maintenance practices to be used to maintain erosion and sediment controls:
 - All control measures will be inspected according to the schedule identified in Appendix E.
 - All measures will be maintained in good working order. The operator should correct any damage or deficiencies as soon as practicable after the inspection, but in no case later than seven (7) calendar days after the inspection.
 - BMP Maintenance (as applicable)
 - Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.
 - Silt fence will be inspected for depth of sediment, tears, to see of the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
 - Drainage swale will be inspected and repaired as necessary.
 - Inlet control will be inspected and repaired as necessary.
 - Check dam will be inspected and repaired as necessary.
 - Straw bale dike will be inspected and repaired as necessary.
 - Diversion dike will be inspected and any breaches promptly repaired.
 - Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
 - If sediment escapes the site, accumulations must be removed at a frequency that minimizes off-site impacts, and prior to the next rain event, if feasible. If the permittee does not own or operate the off-site conveyance, then the permittee must to work with the owner or operator of the property to remove the sediment.
 - Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.
- 2. To maintain the above practices, the following will be performed:
 - Maintenance and repairs will be conducted before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. Following an inspection, deficiencies should be corrected no later than seven (7) calendar days after the inspection.
 - Any necessary revisions to the SWP3 as a result of the inspection must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the SWP3 and wherever possible those changes implemented before the next storm event.
 - Personnel selected for inspection and maintenance responsibilities must be knowledgeable of the general permit, familiar with the construction site, and knowledgeable of the SWP3 for the site.

ATTACHMENT J: Schedule of Interim and Permanent Soil Stabilization Practices

Construction Activity Schedule

Activities	Start Date	Finish Date
1.Demolition (0.25-acres): Silt fence protection, tree protection, rock berm		
2.Rough Grading (9-acres): Construction entrance/exit shall be installed and all prior erosion control measures installed above to be maintained as necessary during rough grading.		
3.Utility Installation (2-acres): All prior erosion control measures installed above to be maintained as necessary during utility installation, inlet protection shall be installed as storm drainage system is constructed.		
4.Building Construction (2.5-acres): All prior erosion control measures installed above to maintained as necessary during construction.		
5.Paving (3-acres): All prior erosion control measures installed above to be maintained as necessary during paving and throughout the remainder of the project.		
6.Final Grading/Soil Stabilization/Landscaping (3.5-acres): All temporary erosion control measures to be removed at the conclusion of the project once final stabilization has been achieved. All affected storm sewer inlets and post development BMPs shall be cleaned prior to site completion.		

*Construction activity sequences for linear projects may be conducted on a rolling basis. As a result, construction activities may be at different stages at different locations in the project area. The Contractor is required to complete and update the schedule and adjust as necessary.

*Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days.

SECTION 6: PERMANENT STORMWATER

kimley-horn.com 5301 Southwest Parkway, Building 2, Suite 100 Austin, Texas 78735

512 646 2237

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: Michael Lee, PE

Date: 11/07/2023

Signature of Customer/Agent

Regulated Entity Name: SE Inner Loop Industrial

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.



- 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.
 - \square 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 multifamily 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. X 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

 \boxtimes 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 A: 20% or Less Impervious Cover Waiver

The site will be an industrial development with more than 20% impervious cover. Therefore, a waiver will not be submitted for this project, and this section is not applicable.

ATTACHMENT B: BMP's for Up-Gradient Stormwater

Up-gradient stormwater does exist based on current topography maps and field observations. 12.18acres from the Blue Springs Business Park Development (2021-58-SDP) outfall onto our site from an existing detention pond. This area is conveyed across our site through an existing public drainage channel. This stormwater will not be treated nor detained with our proposed development. Another 0.07acres of upstream flow comes from the access road adjacent to our site. This offsite area will also not be treated but will be detained in the proposed detention pond on our site.

ATTACHMENT C: BMP's for On-Site Stormwater

The site proposes one stacked water quality batch system and detention pond that detains and treats 7.77acres from Drainage Area DA-1. The total capture volume required by TCEQ for this development is 21,185 cubic feet. A 30" diameter smartpond trash screen with perforated riser will treat this volume of stormwater. In a 48-hour period this flow will then outfall through a 6" smartpond outfall valve at Point of Analysis 1. Construction plans, calculations and specifications are provided in Attachment F in the Permanent Stormwater Section of this report. The TSS Spreadsheet Calculations are included on Sheet 17 of the SE Inner Loop Industrial Civil Construction Plans.

ATTACHMENT D: BMP's for Surface Streams

There are no existing surface streams or sensitive features on the subject site. Therefore, this section is not applicable.

ATTACHMENT E: Request to Seal a Feature

The permanent sealing of or diversion of flow from a naturally occurring "sensitive" or "possibly sensitive" feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally occurring "sensitive" or "possibly sensitive" features on this site; and therefore, this section is not applicable.

ATTACHMENT F: Construction Plans

Construction plans, details, specifications, calculations, and construction notes for the site plan are provided in Section 8 which is attached at the end of this report.

Kimley Worn

ATTACHMENT G: Inspection, Maintenance, Repair and Retrofit Plan

The inspection and maintenance plan outlines the procedures necessary to maintain the performance of the Permanent Best Management Practices for this project. It should be noted that the plan provides guidelines that may have to be adjusted dependent on site specific and weather-related conditions.

It is the responsibility of the owner to provide the inspections and maintenance as outlined in the plan for the duration of the project. The owner will maintain this responsibility until it is assumed or transferred to another entity in writing. If the property is leased or sold, the responsibility for the maintenance will be required to be transferred through the lease agreement, binding covenants, closing documents, or other binding legal instrument.

Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities. All inspections shall be documented.

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:	Building Plastics Inc.				
Mailing Address:	4365 Sharpe Ave				
City, State:	Memphis, TN	Zip:	38111		
Telephone:	(901) 745-6351			Fax:	(901) 745-6344

I, the owner, have read and understand the requirements of the attached Inspection and Maintenance Plan for the proposed Permanent Best Management Practices for my project. I acknowledge that I will maintain responsibility for the implementation and execution of the plan until the responsibility is transferred to or assumed by another party in writing through a binding legal instrument.

Signature of Responsible Party:

Wallace R. Mcalexand Date:	10/06/23

Water Quality Ponds

Routine Maintenance

<u>Mowing.</u> The side-slopes, embankment, and emergency spillway of the basin should be mowed at least twice a year to prevent woody growth and to control weeds.

<u>Inspections.</u> Water Quality Ponds should be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. When possible, inspections should be conducted during wet weather to determine if the basin is functioning properly. There are many functions and characteristics of these BMPs that should be inspected. The embankment should be checked for subsidence, erosion, leakage, cracking, and tree growth. The condition of the emergency spillway should be checked. The inlet, barrel, and outlet should be inspected for clogging. Stability of the side slopes should be checked. Modifications to the basin structure and contributing watershed should be evaluated. During semi-annual inspections, replace any dead or displaced vegetation. Replanting of various species of wetland vegetation may be required at first, until a viable mix of species is established. Cracks, voids, and undermining should be patched/filled to prevent additional structural damage. Trees and root systems should be removed to prevent growth in cracks and joints that can cause structural damage. The inspections should be carried out with As-built pond plans in hand.

<u>Sediment Removal.</u> Inspection of the forebay should be completed every three months for the first two years after construction completion, and during the three-month inspection cycle, if more than 15% of the forebay volume is lost, the sediment build-up should be removed. After the two-year period, the sediment forebay should be inspected every three years, and the sediment should be cleaned out if more than one third of the forebay volume is lost. Every six years, the sediment build-up in the mail pool should be inspected and sediment should be removed if twenty percent of the main pool volume is lost.

<u>Erosion Control.</u> The basin side slopes, emergency spillway, and embankment all may periodically suffer from slumping and erosion. Corrective measures such as re-grading and re-vegetation may be necessary.

<u>Nuisance Control.</u> Most public agencies surveyed indicate that control of insects, weeds, odors, and algae may be needed in some ponds. Nuisance control is probably the most frequent maintenance item demanded by local residents. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.). Biological control of algae and mosquitoes using fish such as fathead minnows is preferable to chemical applications.

Non-Routine Maintenance

<u>Structural Repairs and Replacement.</u> The structural integrity of the embankment, outlet structure and retaining walls should be inspected during the required routine inspections. Leakage or seepage of water through the embankment must be avoided and any structural damage should be repaired immediately.

<u>Harvesting</u>. If vegetation is present on the fringes or in the pond, it can be periodically harvested, and the clippings removed to provide export of nutrients and to prevent the basin from filling with decaying organic matter.

ATTACHMENT H: Pilot-Scale Field Testing Plan

The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site; therefore pilot-scale field testing is not required for this project.

ATTACHMENT I: Measures for Minimizing Surface Stream Contamination

All flows generated onsite due to this development are conveyed through a combination of sheet flow and storm sewer systems. Ultimately the flows are conveyed to Granger Lake-San Gabriel River Watershed.

The TSS removal calculations for the proposed permanent BMP's are attached in the construction plans. These plans can be found in Attachment F of the Permanent Stormwater Section of this report.

Surface streams do not exist on site. Therefore, 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 because of the construction and development are not provided at the end of this form. All disturbed areas will be revegetated as soon as practical.

Kimley *Whorn*

SECTION 7: ADDITIONAL FORMS

kimley-horn.com 5301 Southwest Parkway, Building 2, Suite 100 Austin, Texas 78735 512 d

512 646 2237

	Agent Authorization Form For Required Signature Edwards Aquifer Protection Program Relating to 30 TAC Chapter 213 Effective June 1, 1999	
Ϊ	WALLACE R. MCALEXANDER TR. Print Name	,
	TREAS GRER Title - Owner/President/Other	1
of	Buz LD ING PLASTICS INC. Corporation/Partnership/Entity Name	_1
have authorized	Michael Lee, PE Print Name of Agent/Engineer	_
of	Kimley-Horn and Associates 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:

Wallace R. Mcallyands, Applicant's Signature

<u>August 3/2023</u> Date

THE STATE OF Tennessee §

County of Shelles

BEFORE ME, the undersigned authority, on this day personally appeared <u><u>Maliace</u> <u>R. McAlacan</u></u> 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 <u>21st</u> day of <u>August</u>, 2023.



TARY PIRIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: August 3, 2025

Application Fee Form

Texas Commission on Environmental Quality Name of Proposed Regulated Entity: <u>SE Inner Loop Industrial</u> Regulated Entity Location: <u>Georgetown, TX</u>							
Name of Customer: <u>Building Plast</u> Contact Person: <u>Wally McAlexanc</u>	<u>ics Inc.</u> I <u>er</u> Pho	ne: <u>(901) 745-6351</u>					
Customer Reference Number (if issued):CN Regulated Entity Reference Number (if issued):RN Austin Regional Office (3373)							
Hays San Antonio Regional Office (336	Travis [] 2)	W	illiamson				
Bexar Comal	Medina	Uv	valde				
Application fees must be paid by check, certified check, or money order, payable to the Texas Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to:							
Austin Regional Office San Antonio Regional Office Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier							
Revenues Section		12100 Park 35 Circle					
Mail Code 214 P.O. Box 13088		Building A, 3rd Floor Austin, TX 78753					
Austin, TX 78711-3088		(512)239-0357					
Site Location (Check All That App							
🔀 Recharge Zone	Contributing Zone	e Transi	tion Zone				
Type of Pla	n	Size	Fee Due				
Water Pollution Abatement Plan, Plan: One Single Family Residentia	al Dwelling	Acres	\$				
Water Pollution Abatement Plan, Plan: Multiple Single Family Resid		Acres	\$				
Water Pollution Abatement Plan,	Contributing Zone						
Plan: Non-residential	9.44 Acres	\$ 5,000					
Sewage Collection System	L.F.	\$					
Lift Stations without sewer lines		Acres	\$				
Underground or Aboveground Sto Piping System(s)(only)	Tanks Each	\$ \$					
Exception		Each	\$				
Extension of Time		Each	⇒ \$				
Man			· ·				

Signature: _____ Date: <u>11/07/2023</u>

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

<i>Acres</i> < 5 < 5 5 < 10 10 < 40	Fee \$650 \$1,500 \$3,000
< 5 5 < 10	\$1,500
5 < 10	
	\$3,000
10 < 10	
10 < 40	\$4,000
40 < 100	\$6,500
100 < 500	\$8,000
≥ 500	\$10,000
< 1	\$3,000
1 < 5	\$4,000
5 < 10	\$5,000
10 < 40	\$6,500
40 < 100	\$8,000
≥ 100	\$10,000
	100 < 500 ≥ 500 < 1 1 < 5 5 < 10 10 < 40 40 < 100

Organized Sewage collection Systems and Modifications								
	Cost per Linear	Minimum Fee-						
Project	Foot	Maximum Fee						
Sewage Collection Systems	\$0.50	\$650 - \$6,500						

Underground and Aboveground Storage Tank System Facility Plans and Modifications

	Cost per Tank or	Minimum Fee-
Project	Piping System	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 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 (<i>Core Data Form should be submitted with the program application.</i>)								
Renewal (Core Data Form should be submitted with the	Renewal (Core Data Form should be submitted with the renewal form) Other							
2. Customer Reference Number (if issued)	3. Regulated Entity Reference Number (if issued)							
CN	RN							

SECTION II: Customer Information

4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy)													
New Custor		(Verifiab		pdate to Custor xas Secretary of			nptro		-	egulated Ent unts)	tity Own	ership	
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) <u>If new Customer, enter previous Customer below:</u>													
Building Plastics Inc.													
7. TX SOS/CP.	A Filing N	umber		8. TX State T	ax ID (11 d	ligits)			9. Fe	ederal Tax I	D	10. DUNS I applicable)	Number <i>(if</i>
0009271506				16210731614					(9 dig	jits)			
									62-10	034754036			
11. Type of C	ustomer:		🛛 Corpora	ion				Individual Partnershi		ership: 🗌 Gen	eral 🗌 Limited		
	,		🗌 Federal 🗌	Local 🗌 State	Other			Sole Pr	roprieto	orship	🗌 Otl	her:	
12. Number of	of Employ	ees							13. I	ndepender	ntly Ow	ned and Ope	erated?
0-20 2] 101-2			ind higher				🖾 Yes 🛛 No				
14. Customer	Role (Pro	posed or	⁻ Actual) – <i>as i</i>	t relates to the l	Regulated E	ntity lis	ted or	n this form.	Please	check one of	f the follo	owing	
Owner	al Licensee	Op R	erator esponsible Pa		ner & Opera CP/BSA App					Other:			
15. Mailing	3623 Sha	rpe Ave											
Address:													
City Memphis State TN							ZIP	3811	1		ZIP + 4		
16. Country Mailing Information (<i>if outside USA</i>)						17. E-Mail Address (if applicable)							
N/A							wmcalexander@bpiteam.com						
18. Telephone Number19. Extension or						on or C	ode 20. Fax Number (if applicable)						

SECTION III: Regulated Entity Information

21. General Regulated En		ation (If 'New Reg		cted, a new p	permit	applica	tion is also	required.)		
New Regulated Entity	🖾 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 Nam	22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)									
SE Inner Loop Industrial										
23. Street Address of the Regulated Entity:	720 SE Inner Loop									
<u>(No PO Boxes)</u>	City	Georgetown	State	ТХ	ZIP		78626		ZIP + 4	
24. County	Williamson									
		If no Stree	et Address is provid	ded, fields 2	25-28	are re	quired.			
25. Description to										
Physical Location:										
26. Nearest City							State		Near	rest ZIP Code
Latitude/Longitude are re used to supply coordinate	•		•		Data S	Standa	rds. (Geo	coding of th	he Physical	Address may be
27. Latitude (N) In Decima	al:	30.607294	2		28. Longitude (W) In Decimal:		mal:	-97.673932		
Degrees	Minutes		Seconds	Degre	Degrees		N	Minutes		Seconds
30		36	26.26		_(-97 40				20.16
29. Primary SIC Code	30.	Secondary SIC (Code	31. Prima		ICS Co	de	32. Seco	ondary NAIC	S Code
(4 digits)	(4 d	igits)		(5 or 6 digi	ts)			(5 or 6 dig	gits)	
5023	N/A			423220				N/A		
33. What is the Primary B	Business of t	his entity? (Do	o not repeat the SIC o	r NAICS descr	ription	.)				
Industrial Warehouse										
24 Mailing	4365 Sharj	be Ave								
34. Mailing Address:										
Address.	City	Memphis	State	TN		ZIP	38111		ZIP + 4	
35. E-Mail Address:	wm	calexander@bpit	eam.com	1						1
36. Telephone Number			37. Extension or	Code		38. F	ax Numb	er (if applical	ble)	
(901)745-6351 (901)745-6344										

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	D PWS
Sludge	Storm Water	Title V Air	Tires	Used Oil
Voluntary Cleanup	Wastewater	Wastewater Agriculture	Water Rights	Other:

SECTION IV: Preparer Information

40. Name:	Michael Lee, PE			41. Title:	Project Manager
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(512)646-2237 () -		michael.lee@kimley-horn.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.

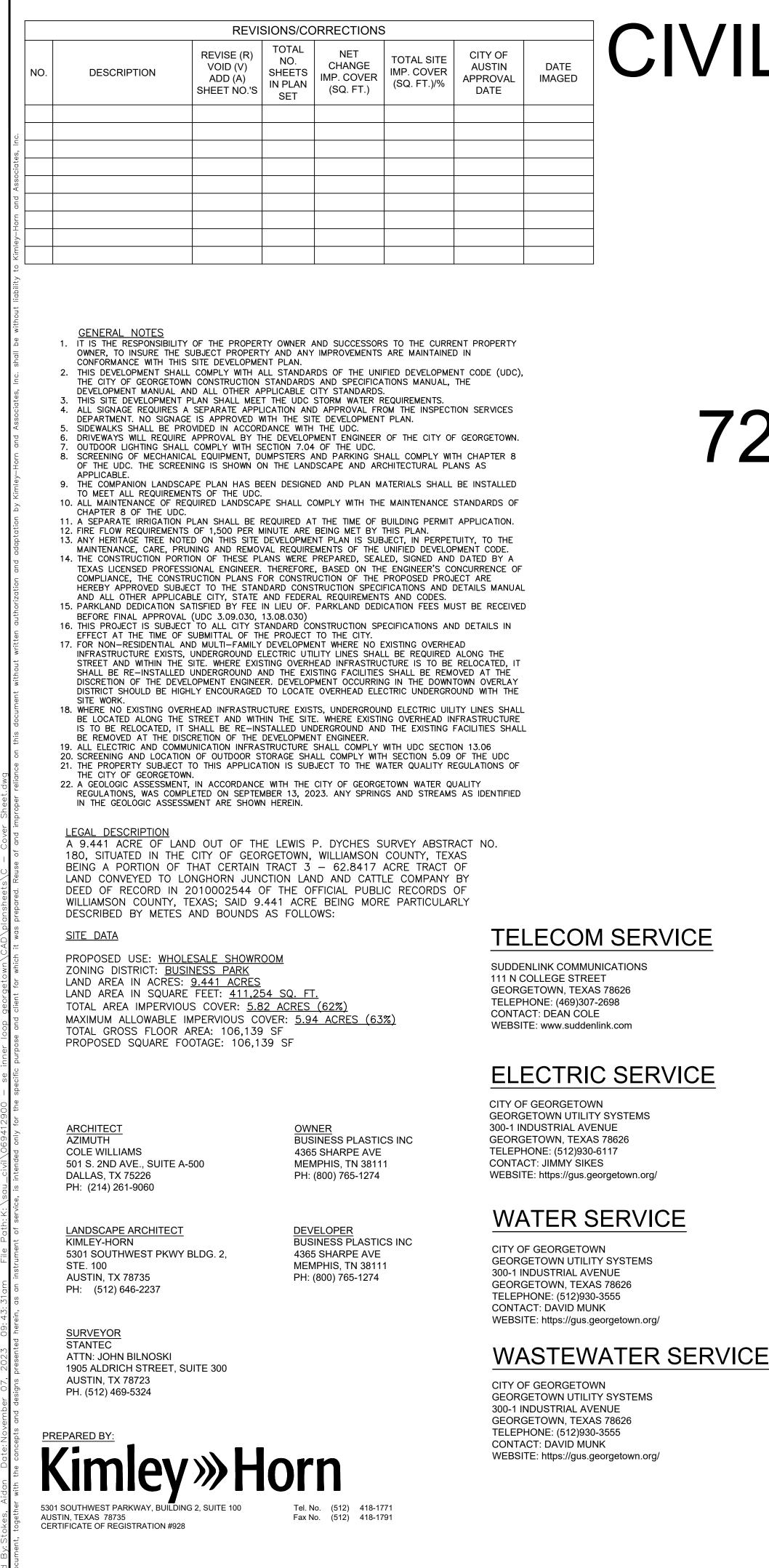
Company:	Kimley-Horn	Job Title:	Project Manager			
Name (In Print):	Michael Lee			Phone:	(512)646-2237	
Signature:	Mark In			Date:	11/7/2023	
					·	

Kimley *Whorn*

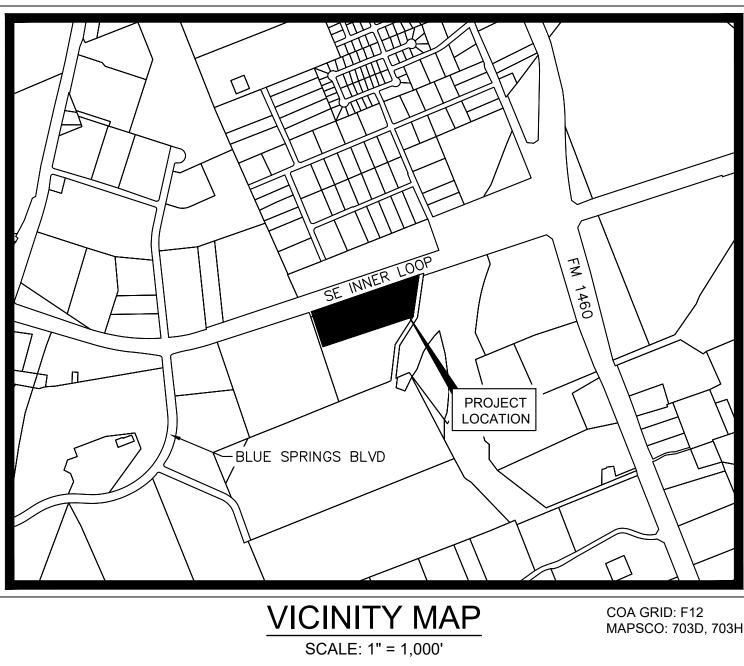
SECTION 8: CIVIL DESIGN PLANSET

kimley-horn.com 5301 Southwest Parkway, Building 2, Suite 100 Austin, Texas 78735

512 646 2237



CIVIL SITE DEVELOPMENT PLANS FOR SE INNER LOOP INDUSTRIAL 720 SOUTHEAST INNER LOOP GEORGETOWN, TX 78626



OCTOBER 2023

SUBMITTED BY:

DATE

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF GEORGETOWN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER. REVIEW OF THE SUBMITTED MATERIALS DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR ORDINANCE COMPLIANCE BY THE CITY ENGINEER.

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LETTER OF REGULATORY COMPLIANCE
3	GENERAL NOTES
4	KIMLEY-HORN GENERAL NOTES
5	EXISTING CONDITIONS AND DEMO PLAN
6	EROSION CONTROL PLAN
7	OVERALL SITE PLAN AND PAVING PLAN
8	DIMENSION CONTROL PLAN (SHEET 1 OF 2)
9	DIMENSION CONTROL PLAN (SHEET 2 OF 2)
10	GRADING PLAN (SHEET 1 OF 2)
11	GRADING PLAN (SHEET 2 OF 2)
12	EXISTING DRAINAGE AREA MAP
13	PROPOSED DRAINAGE AREA MAP
14	INLET DRAINAGE AREA MAP
15	STORM PLAN (SHEET 1 OF 2)
16	STORM PLAN (SHEET 2 OF 2)
17	WATER QUALITY AND DETENTION POND PLAN
18	POND PROFILES
19	POND DETAILS
20	OVERALL WATER PLAN
21	OVERALL WASTEWATER PLAN
22	FIRE PROTECTION PLAN
23	PAVING DETAILS
24	STORM DRAIN DETAILS
25	UTILITY DETAILS (SHEET 1 OF 3)
26	UTILITY DETAILS (SHEET 2 OF 3)
27	UTILITY DETAILS (SHEET 3 OF 3)
28	EROSION CONTROL DETAILS
29	SITE PLAN
30	EXTERIOR ELEVATIONS
31	SITE PHOTOMETRIC
32	OVERALL LANDSCAPE PLAN
33	LANDSCAPE PLAN
34	LANDSCAPE PLAN
35	LANDSCAPE PLAN
36	LANDSCAPE DETAILS
37	LANDSCAPE SPECIFICATIONS
38	TREE PROTECTION PLAN
39	OVERALL TREE PROTECTION PLAN
40	TREE PROTECTION PLAN
41	TREE PROTECTION PLAN
42	TREE PROTECTION PLAN

THIS NOTE IS BEING PLACED ON THE PLAN SET IN PLACE OF A TEMPORARY TRAFFIC CONTROL STRATEGY WITH THE FULL UNDERSTANDING THAT, AT A MINIMUM OF 6 WEEKS PRIOR TO THE START OF CONSTRUCTION, A TEMPORARY TRAFFIC CONTROL PLAN MUST BE REVIEWED AND APPROVED BY THE RIGHT OF WAY MANAGEMENT DIVISION. THE OWNER/REPRESENTATIVE FURTHER RECOGNIZES THAT A REVIEW FEE, AS PRESCRIBED BY THE MOST CURRENT VERSION OF THE CITY'S FEE ORDINANCE, SHALL BE PAID EACH TIME A PLAN OR PLAN REVISION IS SUBMITTED TO RIGHT OF WAY MANAGEMENT DIVISION FOR REVIEW. THE FOLLOWING MUST BE TAKEN INTO CONSIDERATION WHEN DEVELOPING FUTURE TRAFFIC CONTROL STRATEGIES:

PEDESTRIAN AND BICYCLE TRAFFIC ACCESS MUST BE MAINTAINED AT ALL TIMES, UNLESS OTHER WISE AUTHORIZED BY RIGHT OF WAY MANAGEMENT.

NO LONG-TERM LANE CLOSURES WILL BE AUTHORIZED, UNLESS RIGHT OF WAY MANAGEMENT DETERMINES THAT ADEQUATE ACCOMMODATIONS HAVE BEEN MADE TO MINIMIZE TRAFFIC IMPACT.

PROJECT SHOULD BE PHASED SO THAT UTILITY INSTALLATION MINIMALLY IMPACTS EXISTING OR TEMPORARY PEDESTRIAN FACILITIES.

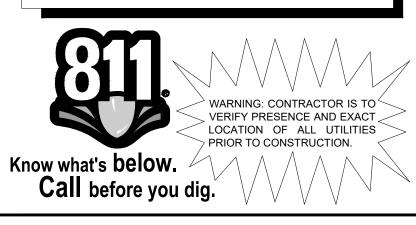
				То	otal Tri	ps		
					AM	AM	PM	РМ
ITE	No. of	Daily	AM	PM	Trips	Trips	Trips	Trips
Code Land Use Description	Units	Trips	Trips	Trips	In	Out	In	Out
150 Warehousing	98.142	194	17	18	13	4	5	13
710 General Office Building	7.897	128	20	20	18	2	3	17
		322	37	38	31	6	8	30

BENCHMARKS

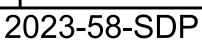
ELEVATIONS HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) UTILIZING REAL-TIME KINEMATIC (RTK) CORRECTIONS PROVIDED BY RTK COOPERATIVE NETWORK, MANAGED BY ALLTERRA CENTRAL AND ADDITIONALLY REFERENCED TO THE NATIONAL GEODETIC SURVEY (NGS) GEOID MODEL 12A

TBM 101: PK NAIL WITH "TBM 101" WASHER FOUND ON THE NORTH CORNER OF DRAINAGE STRUCTURE ON SOUTH SIDE OF SE INNER LOOP NEAR ATMOS GAS SUB STATION ± 1550 WEST OF FM 1460. ELEV = 762.76' (AS SHOWN)

TBM 102: PK NAIL WITH WASHER SET ON THE SOUTH SIDE OF SE INNER LOOP NEAR THE END OF GUARDRAIL ± 975 WEST IF FM 1460. ELEV = 759.51' (AS SHOWN)



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		5301 SOUTHWEST PARKWAY. BUILDING 2. SUITE 100	AUSTIN, TX 78735 PHONF: 512-646-2237 FAX: 512-418-1791		U 2023 KIMLET-FIUKIN ANU ASSUUATES, INU. TBPE Firm No. 928	
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KHA PROJECT 069412900	DATE OCTOBER 2023	SCALE: AS SHOWN	DESIGNED BY: MBL	DRAWN BY: AKS	CHECKED BY: MBL	
		COVER SHEET				
			720 SOUTHEAST INNER LOOP	GEORGETOWN, TEXAS		



SHEET NUMBER

OF 42



June 12, 2023 Sent via Electronic Email

Michael Lee

Kimley-Horn and Associates 10814 Jollyville Road Campus IV, Suite 200 Austin, TX 78759

RE: 2023-32-LTR - Plat Certification Letter for 9.44 acres in the Lewis P. Dyches Survey, Abstract No. 180, generally located at 720 SE Inner Loop

Dear Mr. Lee:

This letter is in response to your request for a Plat Certification Letter for 720 SE Inner Loop. In accordance with Section 3.08.030 of the Unified Development Code (UDC¹) of the City of Georgetown, this letter confirms that the property consisting of 9.44 acres in the Lewis P. Dyches Survey, Abstract No. 180, located at 720 SE Inner Loop *is* exempt based on 3.08.020B. Thus, pursuant to Section 3.08.020B, a plat *is not* required for this tract to be developed, unless it were to be divided.

In addition, please note that this letter does not authorize the property owner to proceed with development of the tract and does not specify requirements that must be met for future development. For your information, "development" is defined in UDC Section 16.02 as "Initiation of any activity governed by this Unified Development Code related to land or property modification whether for imminent or future construction activities including, but not limited to, division of a parcel of land into two or more parcels; alteration of the surface or subsurface of the land including grading, filling, or excavating; mining or drilling operations; clearing or removal of natural vegetation and/or trees; installation of public infrastructure including utilities, roadways, and drainage facilities; and construction or enlargement of any building, structure, or impervious surface. Exclusions from this definition include maintenance of lawns, gardens, and trees; repairs to existing utilities; minimal clearing of vegetation for surveying and testing; and bona fide agricultural activities."

If you have any questions or would like to discuss further, please do not hesitate to contact me.

Sincerely, Diane Johnson, Principal Planner

¹ You can access the complete UDC on the City's internet site at <u>https://udc.georegtown.org</u>

809 Martin Luther King St | P.O. Box 409 | Georgetown, Texas 78626 | (512) 930-3575 https://planning.georgetown.org | planning@georgetown.org

PLANNING DEPARTMENT

CITY OF GEORGETOWN

CC: Project Number: 2023-32-LTR, MyGovernmentOnline.org

Page **2** of **2**

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	38. 39.	WORK. ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.	15.	PAVEM TO COM
	38. 39.	WORK. ALL APPURTENANCES INSTALLED IN PAVEMENT AREAS SHALL BE ADJUSTED AS REQUIRED TO BE FLUSH WITH FINISHED PAVEMENT.	15.	AFTER PAVEM TO CON DISCOV

IPING NOTES

ISTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH THESE PLANS, CITY OF GEORGETOWN, TX STANDARD CATIONS, THE FINAL GEOTECHNICAL REPORT AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.

OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN VED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAVEMENT OF SUCH SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO STING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES HE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND THESE PLANS. R FREE RAMPS SHALL BE CONSTRUCTED AT ALL DRIVEWAY APPROACHES PER CITY STANDARDS.

INS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON M TRAFFIC CONTROL DEVICES".

ACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED G SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. NT FOR PAVEMENT MARKINGS SHALL ADHERE TO CITY OF GEORGETOWN STANDARD DETAILS AND SPECIFICATIONS.

TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN.

TO GEOTECHNICAL REPORT FOR REINFORCEMENT STEEL. TO GEOTECHNICAL REPORT FOR SOIL COMPACTION SPECIFICATION.

NES SHALL BE DESIGNATED BY CONTINUOUS PAINTED LINES SIX (6) INCHES IN WIDTH ON EACH SIDE OF THE FIRE LANE NG AT THE ENTRANCE FROM THE STREET AND TO BE CONTINUED TO THE EXIT. SUCH LINES SHALL BE BRIGHT RED IN

NES ADJACENT TO CURBS SHALL BE OUTLINED BY A SIX (6) INCH WIDE STRIP PAINTED BRIGHT RED IN COLOR ALONG THE GUTTER LINE.

NDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT S MOST CURRENT.

ENCE CITY OF GEORGETOWN, TX STANDARD CONSTRUCTION DETAILS FOR CURB RAMP AND OTHER PAVING DETAILS.

ACTOR RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY CITY OF GEORGETOWN, TX OF TRAFFIC

OL PLAN PRIOR TO START OF CONSTRUCTION. LKS ADJACENT TO CURB SHALL BE CONNECTED TO BACK OF CURB USING LONGITUDINAL BUTT JOINT.

THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE LOCATED THE PEDESTRIAN AND AUTOMOBILE ROUTES AND SHALL BE LOCATED BETWEEN THREE TO FIVE FEET BEHIND THE ST BACK OF CURB. SIGN HEIGHT, LOCATION, AND STRUCTURE SHALL BE SUCH THAT THE SIGNS POSE NO THREAT TO SAFFTY

THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED Y ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED, FIELD ADJUSTMENTS OF LOCATION RIENTATION OF THE SIGNS ARE TO BE MADE TO ACCOMPLISH THIS.

INTRACTOR FOR THE PROJECT SHALL NOT PLACE ANY PERMANENT PAVEMENT UNTIL ALL SLEEVING FOR ELECTRIC, GAS, IONE, CABLE TV, SITE IRRIGATION, OR ANY OTHER UNDERGROUND UTILITY HAS BEEN INSTALLED. IT SHALL BE THE ACTOR'S RESPONSIBILITY TO CONFIRM THAT ALL SLEEVING IS IN PLACE PRIOR TO PLACEMENT OF PERMANENT

E PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. & T.A.S) EXIST TO OM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 NT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO ACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.

TS, SIDEWALKS, DRIVEWAYS, AND STORM DRAINAGE FACILITIES IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN RMANCE WITH THE CITY OF GEORGETOWN INFRASTRUCTURE DESIGN & DEVELOPMENT STANDARDS MANUAL, LATEST

NES SHALL REMAIN OPEN/ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION; FIRE LANE SHALL BE INSTALLED & TED BY THE CITY PRIOR TO ANY CONSTRUCTION ABOVE THE FOUNDATION.

<u>OTES</u>

NSTRUCTION SHALL BE IN GENERAL ACCORDANCE WITH THESE PLANS, CITY OF GEORGETOWN, TX STANDARD CATIONS, THE FINAL GEOTECHNICAL REPORT, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS.

OTHERWISE NOTED. PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF ENT SURFACE. ADD .50' TO PAVING GRADE FOR TOP OF CURB GRADE. THE LIMITS OF EARTHWORK IN PAVED AREAS IS TTOM OF PAVEMENT.

INTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR JSE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND RUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE AL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION REQUIREMENTS. CONTRACTOR SHALL REMOVE ALL RARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT TAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION. CONTRACTOR IS RESPONSIBLE FOR FILING N.O.I. AND N.O.T. HE TCEQ. CONTRACTOR SOLELY RESPONSIBLE FOR ALL MANDATED SWPPP RECORD KEEPING AND REPORTING.

CAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR EXPENSE.

ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAVEMENT AND ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING NE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.

ENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR STRUCTURAL SCOPE AND SUBGRADE INFORMATION.

INTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE CT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE CHNICAL ENGINEER PRIOR TO PLACEMENT.

NG CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR

IG OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN VED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LABORATORY AND THE PAYMENTS FOR SUCH IG SERVICES SHALL BE MADE BY THE CONTRACTOR. THE OWNER SHALL APPROVE THE LABORATORY NOMINATED TO DO STING OF MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING DURES THAT THE WORK CONSTRUCTED DOES MEET THE REQUIREMENTS OF THE CITY'S SPECIFICATIONS AND THESE

SED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN F DISCREPANCY.

TO SITE PLAN AND/OR DIMENSION CONTROL PLAN AND FINAL PLAT FOR HORIZONTAL DIMENSIONS. TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING

RUCTION.

E SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE. NG TREES SHALL BE PRESERVED WHENEVER POSSIBLE.

ACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO COMMENCING CONSTRUCTION AND SHALL ENGINEER OF ANY DISCREPANCIES BEFORE CONSTRUCTION COMMENCES.

PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE IENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE NVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE /ERED.

STORM SEWER NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL NOTIFY THE CONSTRUCTION MANAGER AND ENGINEER OF ANY CONFLICTS DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
- 4. THE INSPECTOR SHALL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- 5. ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
- 6. ALL PRIVATE STORM SHALL BE NOTED AS ON PLANS. CONTRACTOR TO CONTACT ENGINEER WITH QUESTIONS ABOUT PIPE MATERIAL PRIOR TO ORDERING. CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO PROJECT ENGINEER AND CITY ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIAL.
- 7. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL STORM SEWER LINES AND OTHER UTILITIES.
- EMBEDMENT FOR ALL ONSITE SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY OF GEORGETOWN, TX STANDARD DETAILS.
- 9. REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL WATER AND WASTEWATER CROSSINGS. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRENCH PROTECTION PLAN FOR ALL OPEN TRENCH EXCAVATION.
- 11. USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET.
- 12. ALL PRIVATE LANDSCAPE AREA DRAINS SHALL BE OF MATERIAL APPROVED BY BOTH ENGINEER AND LANDSCAPE ARCHITECT.

WATER AND SANITARY SEWER NOTES

- 1. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE REQUIREMENTS SET FORTH IN THE CITY OF GEORGETOWN WATER AND WASTEWATER CONSTRUCTION STANDARDS AND DETAILS, LATEST EDITION.
- WATER MAINS SHALL HAVE THE FOLLOWING MINIMUM COVER BELOW STREET GRADES: <u>COVER</u> 3.5' 4.0' 4 0'
 - LARGER AS SHOWN ON PLANS
- 3. PLASTIC TAPE FOR UTILITY SERVICES SHALL BE ATTACHED TO THE ENDS OF ALL WATER AND SEWER SERVICE LINES AND EXTEND ABOVE GROUND LEVEL. THE TAPE SHALL MEET THE FOLLOWING SPECIFICATION: A. "GEORGETOWN MARKING TAPE" OR APPROVED EQUAL. B. ROLL MARKED CONTINUOUSLY, "CAUTION WATER LINE" OR "CAUTION SEWER LINE". C. SIX (6) INCHES IN WIDTH. D. RED TAPE FOR SEWER SERVICES. E. BLUE TAPE FOR WATER SERVICES.
- IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXACT LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES AND SERVICES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL CALL 811 FOR FIELD LOCATION OF EXISTING UTILITIES. CALL AT LEAST 48 HOURS BEFORE LOCATIONS ARE NEEDED. NOTE THAT THE DIG TESS SERVICE DOES NOT LOCATE ALL UTILITIES, ONLY THOSE REGISTERED WITH THE SERVICE.
- REFER TO SITE GRADING PLANS, PAVING PLANS, AND LANDSCAPE PLANS FOR FINAL GRADES FOR DETERMINING PROPOSED MANHOLE RIM ELEVATIONS.
- LOCATIONS AND SIZES OF EXISTING PUBLIC AND PRIVATE UTILITIES SHOWN ON THESE PLANS ARE FROM CITY AND UTILITY COMPANY RECORDS ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING ALL UTILITIES AND FOR DAMAGES RESULTING FROM FAILURE TO DO SO.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER AND SEWER SERVICES AND ANY DEVIATIONS FROM PLANS MADE DURING CONSTRUCTION.
- 8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER UTILITIES.
- 9. ALL WATER AND SANITARY SEWER SERVICES SHALL TERMINATE FIVE (5) FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE
- 10. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES. ALL PUBLIC PIPE, STRUCTURES, AND FITTINGS SHALL BE INSPECTED BY THE CITY INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISINFECTION AND PRESSURE TESTING OF ALL MAINS. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- 11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A TRENCH EXCAVATION PROTECTION PLAN, SEALED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR ALL TRENCHES DEEPER THAN FIVE (5)
- 12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR ALL WATER AND SANITARY SEWER LINES AND OTHER UTILITIES.
- 13. REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 290) FOR ALL UTILITY CROSSINGS.
- 14. CONTRACTOR TO SEQUENCE CONSTRUCTION AS TO AVOID INTERRUPTION OF WATER OR SANITARY SEWER SERVICE TO SURROUNDING AREAS
- 15. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES.
- 16. FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF TWO (2) FEET AND A MAXIMUM OF SIX (6) FEET BEHIND THE CURB LINE OF FIRE LANE AND STREET.
- 17. ANY WATER OR SANITARY SEWER SERVICE LOCATED OUTSIDE OF A STREET, ALLEY OR EASEMENT SHALL BE INSTALLED BY A PLUMBER AND BE INSPECTED BY CODE ENFORCEMENT.

CITY OF GEORGETOWN NOTES: 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.

THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY THE SITE CONSTRUCTION PLANS SHALL MEET ALL REQUIREMENTS OF THE APPROVED SITE PLAN. WASTEWATER MAINS AND SERVICE LINES SHALL BE SDR 26 PVC. WASTEWATER MAINS SHALL BE INSTALLED WITHOUT HORIZONTAL OR VERTICAL BENDS.

MAXIMUM DISTANCE BETWEEN WASTEWATER MANHOLES IS 500 FEET. WASTEWATER MAINS SHALL BE LOW PRESSURE AIR TESTED AND MANDREL TESTED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEQ REQUIREMENTS.

WASTEWATER MANHOLES SHALL BE VACUUM TESTED AND COATED BY THE CONTRACTOR ACCORDING TO CITY OF GEORGETOWN AND TCEO 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. ALL BENDS AND CHANGES IN DIRECTION ON WATER MAINS SHALL BE RESTRAINED AND THRUST BLOCKED.

14. LONG FIRE HYDRANT LEADS SHALL BE RESTRAINED. 15. ALL WATER LINES ARE TO BE BACTERIA TESTED BY THE CONTRACTOR ACCORDING TO THE CITY

STANDARDS AND SPECIFICATIONS 16. WATER AND SEWER MAIN CROSSINGS SHALL MEET ALL REQUIREMENTS OF THE TCEQ AND THE

17. FLEXIBLE BASE MATERIAL FOR PUBLIC STREETS SHALL BE TXDOT TYPE A GRADE 1. 18. HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE TYPE D UNLESS OTHERWISE SPECIFIED AND SHALL BE A MINIMUM OF 2 INCHES THICK ON PUBLIC STREETS AND ROADWAYS. 19. ALL SIDEWALK RAMPS AND SIDEWALK ALONG PARKLAND, OPEN SPACE, OR OTHER NON-RESIDENTIAL LOTS ARE TO BE INSTALLED WITH THE PUBLIC INFRASTRUCTURE.

20. A MAINTENANCE BOND IS REQUIRED TO BE SUBMITTED TO THE CITY PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS. THIS BOND SHALL BE ESTABLISHED FOR 2 YEARS IN THE AMOUNT OF 10% OF THE COST OF THE PUBLIC IMPROVEMENTS AND SHALL FOLLOW THE CITY FORMAT. 21. 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 (300DPI). IF A DISK IS SUBMITTED, A BOND SET SHALL BE INCLUDED WITH THE DISK.

22. 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 23. THE 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. 24. THE SITE DEVELOPMENT PLAN SHALL MEET THE UDC STORMWATER REQUIREMENTS. 25. ALL SIGNAGE REQUIRES A SEPARATE APPLICATION AND APPROVAL FROM THE INSPECTION

SERVICES DEPARTMENT. NO SIGNAGE IS APPROVED WITH THE SITE DEVELOPMENT PLAN. 26. SIDEWALKS SHALL BE PROVIDED IN ACCORDANCE WITH THE UDC 27. DRIVEWAYS WILL REQUIRE APPROVAL BY THE DEVELOPMENT ENGINEER OF THE CITY OF GEORGETOWN

28. OUTDOOR LIGHTING SHALL COMPLY WITH SECTION 7.05 OF THE UDC. 29. 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

30. THE COMPANION LANDSCAPE PLAN HAS BEEN DESIGNED AND PLANT MATERIALS SHALL BE INSTALLED TO MEET ALL REQUIREMENTS OF THE UDC. 31. ALL MAINTENANCE OF REQUIRED LANDSCAPE SHALL COMPLY WITH THE MAINTENANCE STANDARDS OF CHAPTER 8 OF THE UDC. 32. A SEPARATE IRRIGATION PLAN SHALL BE REQUIRED AT THE TIME OF BUILDING PERMIT APPLICATION.

33. FIRE FLOW REQUIREMENTS OF 1,500 GALLONS PER MINUTE ARE BEING MET BY THIS PLAN. 34. ANY HERITAGE TREE NOTED ON THIS SITE DEVELOPMENT PLAN IS SUBJECT, IN PERPETUITY, TO THE MAINTENANCE, CAR, PRUNING, AND REMOVAL REQUIREMENTS OF THE UDC.

FIRE PROTECTION NOTES

- APPROVAL OF THIS SITE PLAN DOES NOT IMPLY APPROVAL TO INSTALL UNDERGROUND FIRE LINES. PRIOR TO INSTALLATION OF UNDERGROUND FIRE LINES, A SEPARATE PERMIT SHALL BE SUBMITTED, UNDER GROUND FIRE LINE SUPPLY.
- BACKFLOW PR REQUIREMENTS WHEN REQUIRED. BACKFLOW PROTECTION WILL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE UTILITY DRAWINGS. ALL PRIVATE FIRE LINES AND WHAT THEY PROVIDE SERVICE TO WILL BE INSTALLED IN
- ACCORDANCE WITH NFPA 24 INSTILLATION OF PRIVATE SERVICE MAINS AND THEIR APPURTENANCES.
- 4. ALL TEES, PLUGS, CAPS, BENDS, REDUCERS, VALVES SHALL BE RESTRAINED AGAINST MOVEMENT. THRUST BLOCKING AND JOINT RESTRAINED WILL BE INSTALLED IN ACCORDANCE WITH NFPA 24. 5. ALL UNDERGROUND SHALL REMAIN UNCOVERED UNTIL A VISUAL INSPECTION IS CONDUCTED BY THE GEORGETOWN FIRE MARSHAL'S OFFICE (FMO). ALL JOINT RESTRAINTS AND THRUST BLOCKING SHALL BE UNCOVERED FOR VISUAL INSPECTION.
- 6. ALL UNDERGROUND SHALL BE FLUSHED PER THE REQUIREMENTS OF NFPA STANDARD 24 AND WITNESSED BY GEORGETOWN FMO 7. ALL UNDERGROUND SHALL PASS A HYDROSTATIC TEST WITNESSED BY GEORGETOWN FMO. ALL JOINTS SHALL BE UNCOVERED FOR HYDROSTATIC TESTING. ALL PIPING AND ATTACHMENTS
- SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE TESTED AT 200 PSI. OR 50 PSI MORE THAN THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE + OR - 5 PSI FOR 2 HOURS. FENCES, LANDSCAPING, AND OTHER ITEMS WILL NOT BE INSTALLED WITHIN 3 FT, AND WHERE THEY
- WILL OBSTRUCT THE VISIBILITY OR ACCESS TO HYDRANTS, OR REMOTE FDCS. 9. LICENSE REQUIREMENTS OF EITHER RME-U OR G. WHEN CONNECTING BY UNDERGROUND TO THE WATER PURVEYOR'S MAIN FROM THE POINT OF CONNECTION OR VALVE WHERE THE PRIMARY PURPOSE OF WATER IS FOR FIRE PROTECTION SPRINKLER SYSTEM.

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EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL

11 OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN. 12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT. SUCH AS COVERING OR

13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKI ET IF APPLICABLE. TO VERIEV THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY 14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT

15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND 16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A

17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA

STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP 18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES, PER TCEQ AND CITY STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.

19 ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR 20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE. 21. TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE. 22.CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE

23. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, 24.AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN

CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS. 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS

3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE CITY)

4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED

ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP. 6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION. 7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE.

. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED

2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND 3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR. 4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND

b. ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER,

5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO

6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL. STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE DETERMINE THE APPLICABLE REGULATIONS RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS AND COMPLY . KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED. 8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT

1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF

3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB

4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE. 5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF 3. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN

7. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE 8. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL

PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER. 9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING

10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE 11. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND 12.BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY

LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND 13. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH

14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL. 15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING 16.NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED.

18. REFER TO DIMENSION CONTROL PLAN, AND PLAT FOR HORIZONTAL DIMENSIONS. 19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO

20.CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING. 21.ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING

22.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, CONDITIONING, AND PREPARATION

24.DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING. IF NONE IS CURRENTLY EXISTING.

25. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION 26. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER.

27 CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL REFER TO THE GENERAL NOTES "OVERALL" SECTION THESE PLANS FOR ADDITIONAL

28.EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER. 29.CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH THE TREE

PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE WORK. 30. TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD TREE PROTECTION DETAILS AND THE

- APPROVED TREE PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT 31.CONTRACTOR SHALL REFER TO THE LANDSCAPING AND TREE PRESERVATIONS PLANS FOR ALL INFORMATION AND DETAILS REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED 32.NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE CITY, OR CITY HAS OTHERWISE CO
- IN WRITING THAT ONE IS NOT NEEDED FOR THE TREE(S). 33.NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE AND GRADING IMPACT TO THEM HELD TO A MINIMUM. 34 AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVE
- AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARI INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER AREAS OF POOR DRAINAGE ARE DISCOVERED 35. CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE CIVIL ENGINEER IS OB
- **RETAINING WALLS:** . RETAINING WALLS SHOWN ARE FOR SITE GRADING PURPOSES ONLY, AND INCLUDE ONLY LOCATION AND SURFACE SPOT ELEV AT THE TOP AND BOTTOM OF THE WALL
- 2. RETAINING WALL TYPE OR SYSTEM SHALL BE SELECTED BY THE OWNER. DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE 3. RETAINING WALL DESIGN SHALL BE PROVIDED BY OTHERS AND SHALL FIT IN THE WALL ZONE OR LOCATION SHOWN ON THESE STRUCTURAL DESIGN AND PERMITTING OF RETAINING WALLS. RAILINGS, AND OTHER WALL SAFETY DEVICES SHALL BE PERFO A LICENSED ENGINEER AND ARE NOT PART OF THIS PLAN SET.
 - 4. RETAINING WALL DESIGN SHALL MEET THE INTENT OF THE GRADING PLAN AND SHALL ACCOUNT FOR ANY INFLUENCE ON ADJA BUILDING FOUNDATIONS, UTILITIES, PROPERTY LINES AND OTHER CONSTRUCTABILITY NOTES. 5. RETAINING WALL ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS.
 - 1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY STANDARD DETAILS AN
 - SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICT SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION/DETAIL SHALL BE FOLLOWED 2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (C
 - EDITION), INCLUDING ALL ADDENDA 3. ALL FIRELANE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THOSE IN THE GEOTECHNICAL REPORT THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED 4. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATI
 - 5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OT BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOF TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SH. APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SUBGRADE TESTING.
 - 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE PAVING AND P SUBGRADE, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PRO BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC
 - FLATWORK AD ACENT TO THE BUILDING JE NONE IS CURRENTLY EXISTING 8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STAN CONSTRUCTION DETAIL AND SPECIFICATIONS
 - 9. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA AND TAS STANDAR SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING F 10. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS. EDITION.
 - 11. ANY COMPONENTS OF THE PROJECT SUBJECT TO RESIDENTIAL USE SHALL ALSO CONFORM TO THE FAIR HOUSING ACT, AND (WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT. 12 CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH FLUSH. CONNECT 13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PAR SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT
 - PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS. 14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT. 15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT
 - 16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, AI BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND GEOTECHNICAL STANDAR 17. ALL JOINTS SHALL EXTEND THROUGH THE CURB. 18. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
 - 19. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO BEGINNING ANY OF THE PAVING WOR 20.ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT 21.FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS.
 - 22. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED. 23. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING. IRRIGATION. ETC. PRIOR TO PLACEMENT PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.
 - 24.BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS. ACCESSIBLE PARKING SPACES. ACCESS AISLES, AND ACCESS ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWA CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION
 - 25. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAV TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.

- . ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS
- 2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALL/ THE STORM SEWER 3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STO SEWER FACILITIES THAT ARE TO BE CONNECTED TO PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL
- THE ENGINEER OF ANY CONFLICTS DISCOVERED. 4 THE CONTRACTOR SHALL VERIEV AND COORDINATE ALL DIMENSIONS SHOWN INCLUDING THE HORIZONTAL AND VERTICAL L
- OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER 5. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADIN
- AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION. 6. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STAND
- DETAILS AND SPECIFICATIONS CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS 7. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBI CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- 8. ALL PVC TO RCP CONNECTIONS AND ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER STORM PIPES SHALL CONCRETE COLLAR AND BE GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT. 9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER
- CLASS III RCP OR OTHER APPROVED MATERIAL 10. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED.
- 11.IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATE ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT. 12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES.
- 13. EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. 14 ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS
- 15. USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET. 16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN. PREPARED BY A PROFESSION ENGINEER IN THE STATE OF TEXAS. TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENC OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY. 17. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
- ANY PONDS THAT ARE INTENDED TO HOLD WATER INDEFINITELY SHALL BE CONSTRUCTED WATERTIGHT. 2. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT
- POND LINER SPECIFICATIONS 3. A GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ALL POND LINER MATERIAL, PLACEMENT PROCEDURES, AND PROV
- TESTING TO ENSURE THE POND LINER MATERIAL PLACED IS WATERTIGHT. 4. STORM SEWER PIPES AND HEADWALLS THAT CONNECT TO A POND INTENDED TO HOLD WATER INDEFINITELY SHALL BE INSTA
- 5. ANY GRAVEL OR OTHER PERVIOUS EMBEDMENT AROUND PIPES OR OUTFALL STRUCTURES NEAR THE POND SHALL BE ELIMINA AT LEAST 20-FEET FROM THE POND SO NO ROUTE FOR WATER TO LEAK THROUGH THE EMBEDMENT MATERIAL IS PROVIDED.
- 6. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE WATER LEVEL FOLLOWING COMPLETION AND FILLING OF THE SHALL BE MONITORED BY THE CONTRACTOR FOR AT LEAST 60 DAYS TO OBSERVE WATER INFLOW, OUTFLOW, AND CALCULATE EVAPORATION TO VERIFY THAT THE POND IS WATERTIGHT.
- 7. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE POND WATER LEVEL SHALL ALSO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION SO THAT IT REMAINS FULL TO ITS DESIGN WATER LEVEL, AND IS NOT LC AS THIS MAY DRY-OUT THE POND LINER AND RISK ITS WATERTIGHT PROPERTIES.

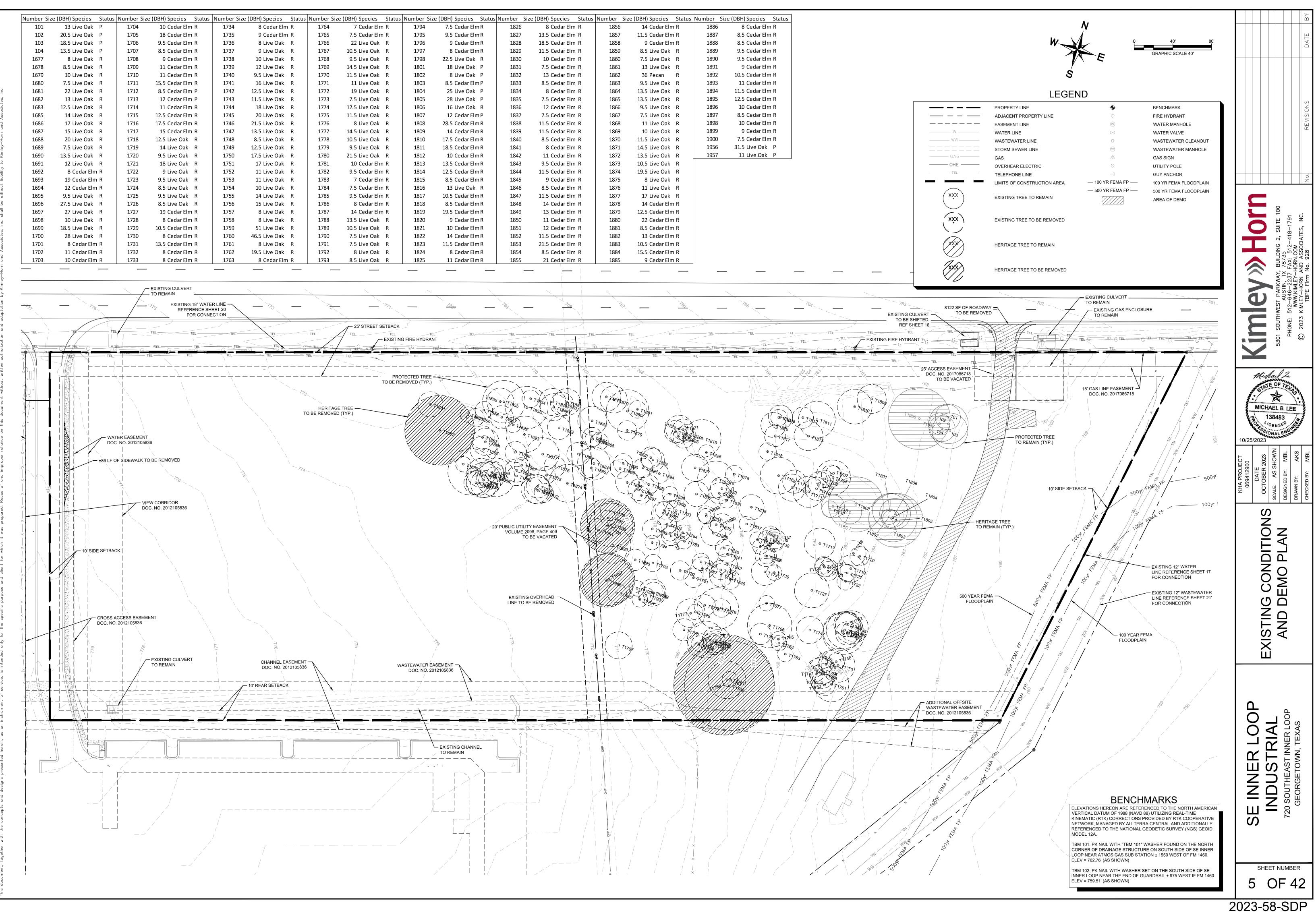
. ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAIL SPECIFICATIONS

- 2. CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AN WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWA CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. 3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION
- ALL UTILITY SERVICES ENTERING THE BUILDING. 4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE 5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLA THE WATER AND WASTEWATER IMPROVEMENTS.
- 6. ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WO STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS. 7. ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICAE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS
- 8. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR, AND COMPLY TO 1 APPLICABLE CODES AND INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRIN DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES. 9. EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
- 10. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, TCEQ, AND AWWA STANDARDS, TO KEE WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS. 11. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND WASTEWATER LINES
- 12. ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE 13. CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AM PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT 14. CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURRO
- PROPERTIES. 15. CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCT NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED
- SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED 16. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY ALL REPAIRS OF EXISTING WATER MAINS WATER SERVICES. SEWER MAINS
- SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. 17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOS PAVEMENT
- 18. THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLO

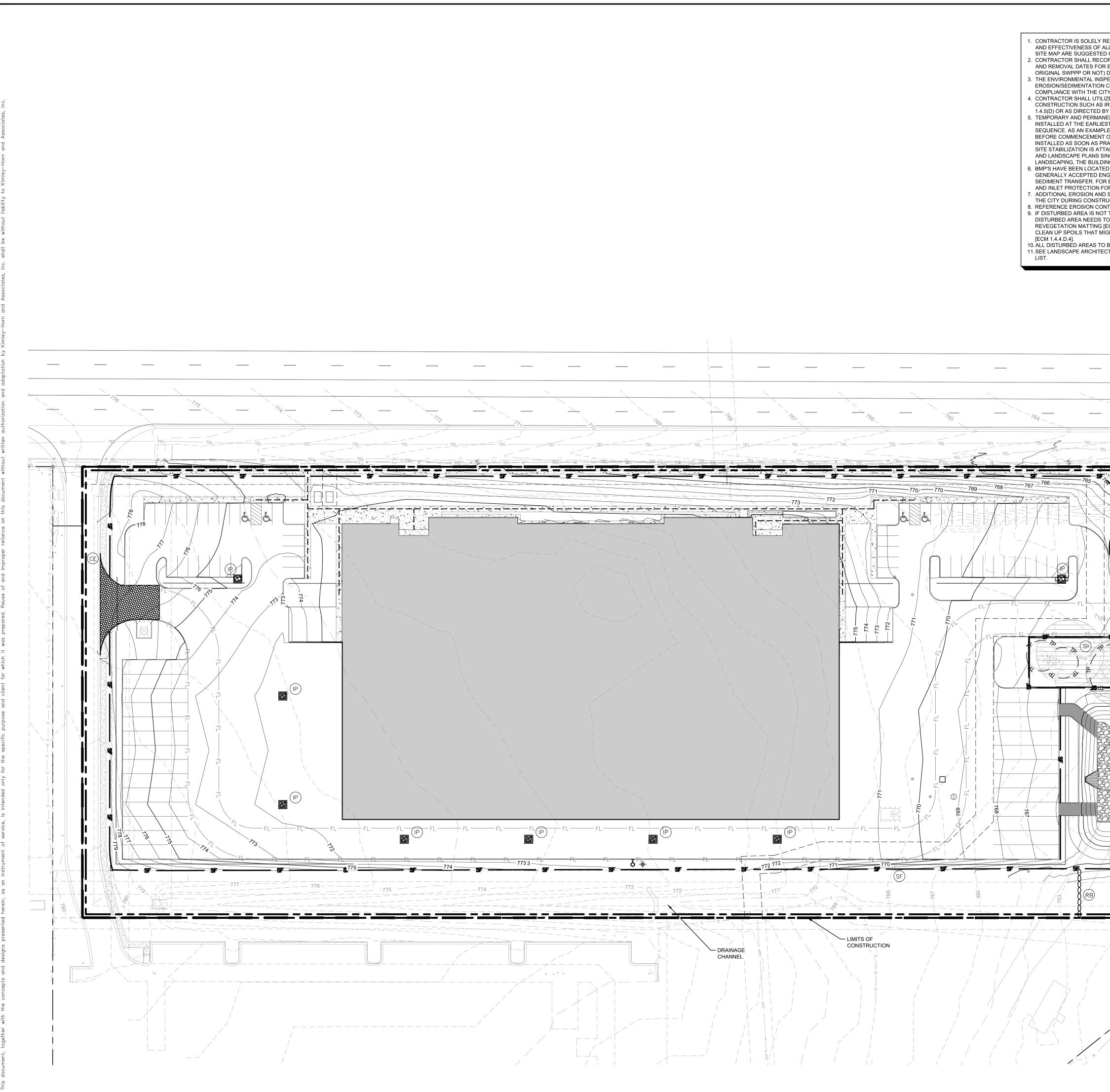
- WITH WATERTIGHT JOINTS TO AT LEAST 1-FOOT ABOVE THE NORMAL POOL WATER SURFACE ELEVATION.
- IN THESE AREAS SHALL BE OF IMPERVIOUS MATERIAL

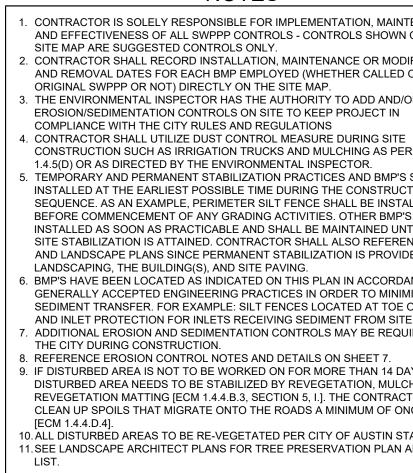
WATER AND WASTEWATER:

	THRUST	E HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS BLOCKED TO CITY STANDARDS.		
CONFIRMED	JOINTS	ACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CE ARE GREATER THAN 9-FEET FROM THE CROSSING. DSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET FROM V		ATE
/E. /EMENT	22.ALL CR	ALS SHALL COMPLY WITH TCEQ CHAPTER 217.53. DSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEW. COMPLY WITH TCEQ CHAPTER 290.44.	ATER, WATER CONSTRUCTION AND MATERIALS	
RDS THE EER IF ANY	23.ALL WA SPECIF	TER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AV CATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING:		
OBTAINED.	SHALL (b. WASTE	TERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE E COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL / WATER LINES AND MANHOLES SHALL BE PRESSURE TESTED. CONTRACTOR SI	ALSO COMPLY WITH TCEQ REGULATIONS. HALL COORDINATE WITH THE CITY FOR THEIR	
EVATIONS	INSPEC	ED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTEI FION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A D ACTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF	VD.	
SE PLANS.	MARKEI SHALL (R DECALS SHALL BE LABELED "CAUTION - WATER LINE", OR "CAUTION - SEWER COMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THI	LINE". DETECTABLE WIRING AND MARKING TAPE E WATER AND WASTEWATER PIPE.	SIONS
FORMED BY	SINGLE	E IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POL LAYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED. .INES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED		
	INTERV	ACTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES AT ALS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS RE AST IRON COVERS FLUSH WITH FINISHED GRADE.		
AND	28.CONTR/ FLOOR	CTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REC ELEVATION OF FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE CO	VER OF THE NEXT UPSTREAM MANHOLE IN THE	
ON CTING	29.THE CO	SEWER). CONTRACTOR SHALL REVIEW BOTH MEP AND CIVIL PLANS TO CONFI NTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFI ER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRA	ETY PLAN, PREPARED BY A PROFESSIONAL	
OR LATEST	OPEN T	REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREN RENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROV NTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.	· · · · · · · · · · · · · · · · · · ·	
TIONS.		TIONS AND DEFINITIONS:		
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	FL FOC	FLOW LINE FACE OF CURB		10/25/2023
LATION OF ORM	FT GI	FEET GRATE INLET		CT DOWN MBL MBL MBL
	hgl Irr Kh	HYDRAULIC GRADE LINE IRRIGATION KIMLEY-HORN AND ASSOCIATES, INC.		
DING PLAN	KHA LAT	KIMLEY-HORN AND ASSOCIATES, INC. LATERAL		941 BV
NDARD	LF LS LT	LINEAR FEET LANDSCAPE LEFT		KHA 06: 06: 06: 06: 06: 06: 06: 06: 06: 06:
BING CODE. LL HAVE A	MAX ME	MAXIMUM MATCH EXISTING ELEVATION		
R SHALL BE	MH MIN NO	MANHOLE MINUTE / MINIMUM NUMBER		
IT	NOI NOT	NOTICE OF INTENT, REF. TCEQ GENERAL PERMIT NOTICE OF TERMINATION, REF. TCEQ GENERAL PERMIT		
TERIAL.	NTS OC OFF	NOT TO SCALE ON CENTER OFFSET		-HORN L NOTE
NS.	OSHA PC	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION POINT OF CURVATURE		
NAL NG TRENCH	PCC PGL	PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVATURE PROPOSED GRADE LINE		Ŧ ←
NCHES. NO	PI PROP PRC	POINT OF INFLECTION PROPOSED POINT OF REVERSE CURVATURE		
	PSI PT	POUNDS PER SQUARE INCH POINT OF TANGENCY		
RT FOR	PVC PVI PVMT	POLYVINYL CHLORIDE POINT OF VERTICAL INFLECTION PAVEMENT		
OVIDE TALLED	RCP ROW	REINFORCED CONCRETE PIPE RIGHT OF WAY		
NATED FOR	RT SF	RIGHT SQUARE FEET		
. BACKFILL IE POND	SS SSMH STA	SANITARY SEWER SANITARY SEWER MANHOLE STATION		
TE	STD SY	STANDARD SQUARE YARD		
LOWERED,	TAS TC TCEQ	ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS TOP OF CURB TEXAS COMMISSION OF ENVIRONMENTAL QUALITY		
AILS AND	TEMP TXDOT	TEXAS COMMISSION OF ENVIRONMENTAL QUALITY TEMPORARY TEXAS DEPARTMENT OF TRANSPORTATION		
AND	TW	TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES TOP OF WALL		
WATER TION OF	TYP VC WE	TYPICAL VERTICAL CURVE WATER EASEMENT		
PE. LATION OF	WI WTR	WYE INLET WATER		R LO TRIA 'INNER L
WORKS	WW	WASTEWATER		
ABLE				I TOV TAR
D THE RINKLER				
EEP				NDU SEORGE
CTION (IF			THESE PLAN AND GENERAL NOTES REFER TO:	
FRACTOR			GEOTECHNICAL ENGINEERING REPORT	
NS, AND			(PROJ./REPORT #) <u>23106100.140</u> (DATE) <u>11/03/2023</u>	
CE. THIS			INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.	
OWED.				4 OF 42
				2023-58-SDP



ber	Size (DBH) Species Status	Number	Size (DBH) Species	Status	Number	Size (DBH) Species	Status	Number	Size (DBH) Species	Status
794	7.5 Cedar Elm R	1826	8 Cedar Elm	R	1856	14 Cedar Elm	ı R	1886	8 Cedar Eln	n R
795	9.5 Cedar Elm R	1827	13.5 Cedar Elm	R	1857	11.5 Cedar Elm	ı R	1887	8.5 Cedar Eln	n R
796	9 Cedar Elm R	1828	18.5 Cedar Elm	R	1858	9 Cedar Elm	ı R	1888	8.5 Cedar Eln	n R
797	8 Cedar Elm R	1829	11.5 Cedar Elm	R	1859	8.5 Live Oak	R	1889	9.5 Cedar Eln	n R
798	22.5 Live Oak R	1830	10 Cedar Elm	R	1860	7.5 Live Oak	R	1890	9.5 Cedar Eln	n R
801	18 Live Oak P	1831	7.5 Cedar Elm	R	1861	13 Live Oak	R	1891	9 Cedar Eln	n R
802	8 Live Oak P	1832	13 Cedar Elm	R	1862	36 Pecan	R	1892	10.5 Cedar Eln	n R
803	8.5 Cedar Elm P	1833	8.5 Cedar Elm	R	1863	9.5 Live Oak	R	1893	11 Cedar Eln	n R
804	25 Live Oak P	1834	8 Cedar Elm	R	1864	13.5 Live Oak	R	1894	11.5 Cedar Eln	n R
805	28 Live Oak P	1835	7.5 Cedar Elm	R	1865	13.5 Live Oak	R	1895	12.5 Cedar Eln	n R
806	16 Live Oak R	1836	12 Cedar Elm	R	1866	9.5 Live Oak	R	1896	10 Cedar Eln	n R
807	12 Cedar Elm P	1837	7.5 Cedar Elm	R	1867	7.5 Live Oak	R	1897	8.5 Cedar Eln	n R
808	28.5 Cedar Elm R	1838	11.5 Cedar Elm	R	1868	11 Live Oak	R	1898	10 Cedar Eln	n R
809	14 Cedar Elm R	1839	11.5 Cedar Elm	R	1869	10 Live Oak	R	1899	9 Cedar Eln	n R
810	17.5 Cedar Elm R	1840	8.5 Cedar Elm	R	1870	11.5 Live Oak	R	1900	7.5 Cedar Eln	n R
811	18.5 Cedar Elm R	1841	8 Cedar Elm	R	1871	14.5 Live Oak	R	1956	31.5 Live Oak	Р
812	10 Cedar Elm R	1842	11 Cedar Elm	R	1872	13.5 Live Oak	R	1957	11 Live Oak	Р
813	13.5 Cedar Elm R	1843	9.5 Cedar Elm	R	1873	10.5 Live Oak	R			
814	12.5 Cedar Elm R	1844	11.5 Cedar Elm	R	1874	19.5 Live Oak	R			
815	8.5 Cedar Elm R	1845	9 Cedar Elm	R	1875	8 Live Oak	R			
816	13 Live Oak R	1846	8.5 Cedar Elm	R	1876	11 Live Oak	R			
817	10.5 Cedar Elm R	1847	11.5 Cedar Elm	R	1877	17 Live Oak	R			
818	8.5 Cedar Elm R	1848	14 Cedar Elm	R	1878	14 Cedar Elm	ı R			
819	19.5 Cedar Elm R	1849	13 Cedar Elm	R	1879	12.5 Cedar Elm	ı R			
820	9 Cedar Elm R	1850	11 Cedar Elm	R	1880	22 Cedar Elm	ı R			
821	10 Cedar Elm R	1851	12 Cedar Elm	R	1881	8.5 Cedar Elm	ı R			
822	14 Cedar Elm R	1852	11.5 Cedar Elm	R	1882	13 Cedar Elm	ı R			
823	11.5 Cedar Elm R	1853	21.5 Cedar Elm	R	1883	10.5 Cedar Elm	ı R			
824	8 Cedar Elm R	1854	8.5 Cedar Elm	R	1884	15.5 Cedar Elm	ı R			
825	11 Cedar Elm R	1855	21 Cedar Elm	R	1885	9 Cedar Elm	ı R]		





NOTES

. CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS 2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON

3. THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN

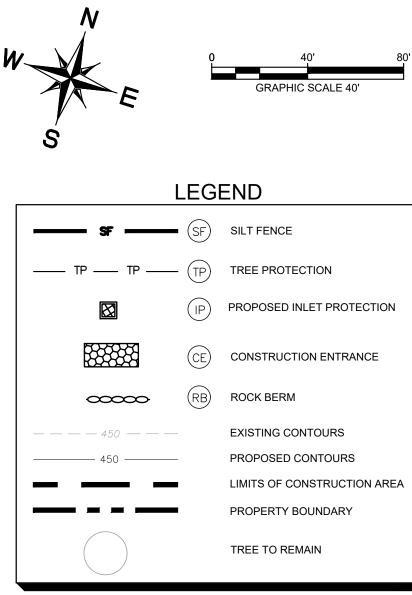
CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(D) OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR. 5. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION

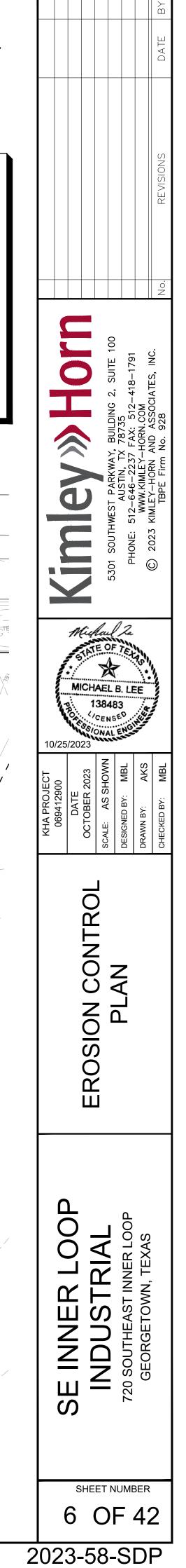
SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY

6. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF. 7. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED BY

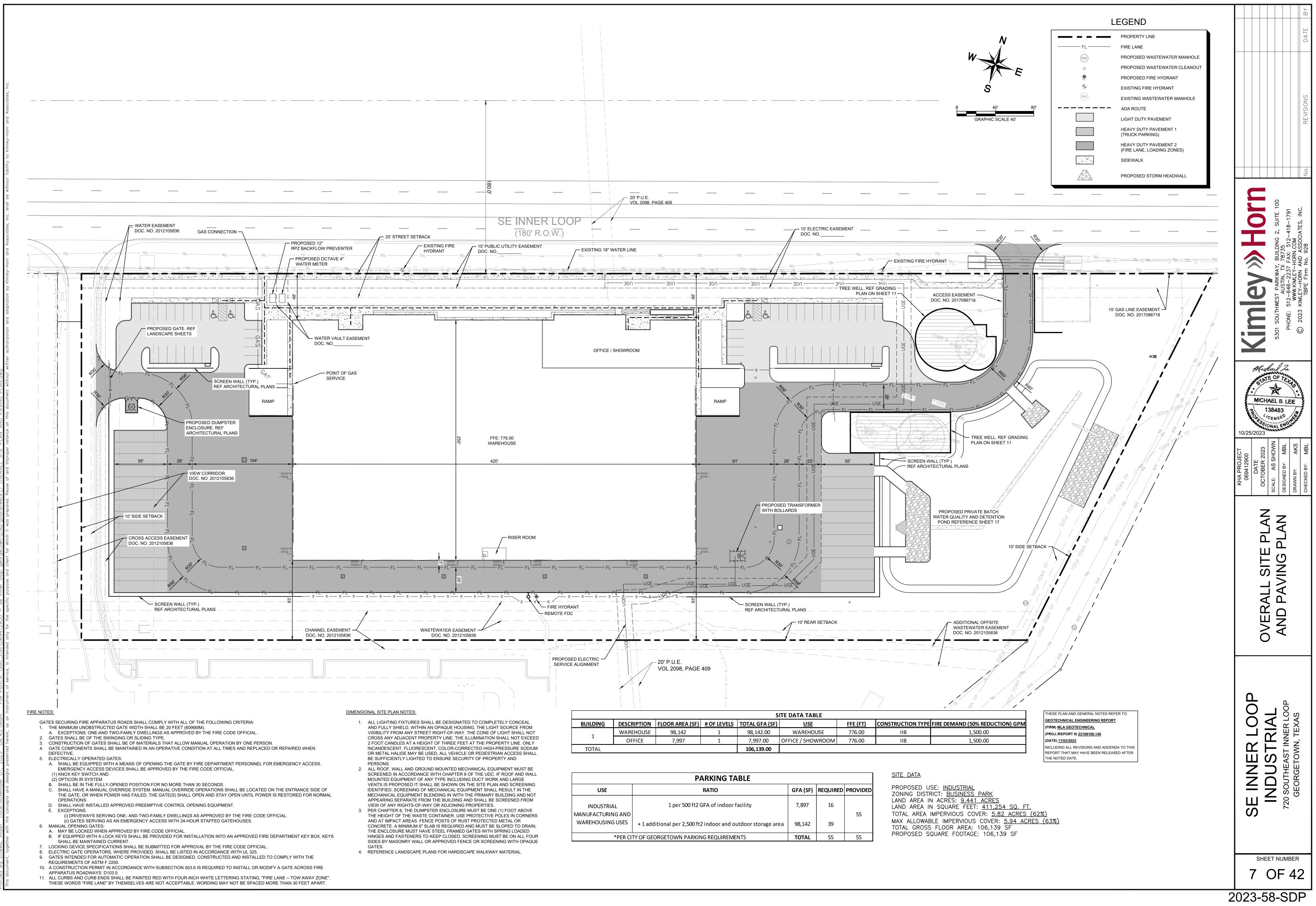
8. REFERENCE EROSION CONTROL NOTES AND DETAILS ON SHEET 7. 9. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING [ECM 1.4.4.B.3, SECTION 5, I.]. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY

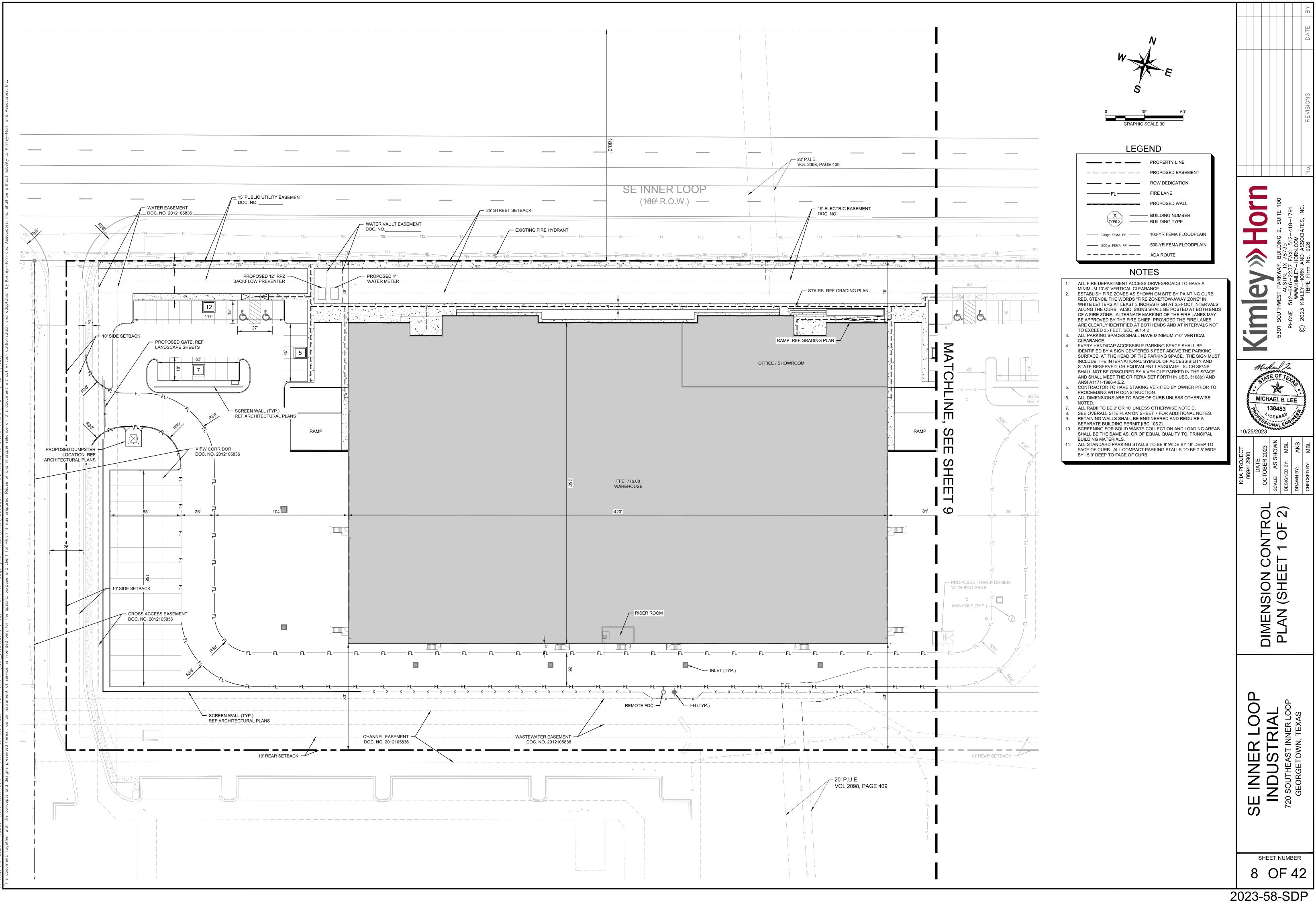
10. ALL DISTURBED AREAS TO BE RE-VEGETATED PER CITY OF AUSTIN STANDARDS. 11. SEE LANDSCAPE ARCHITECT PLANS FOR TREE PRESERVATION PLAN AND TREE

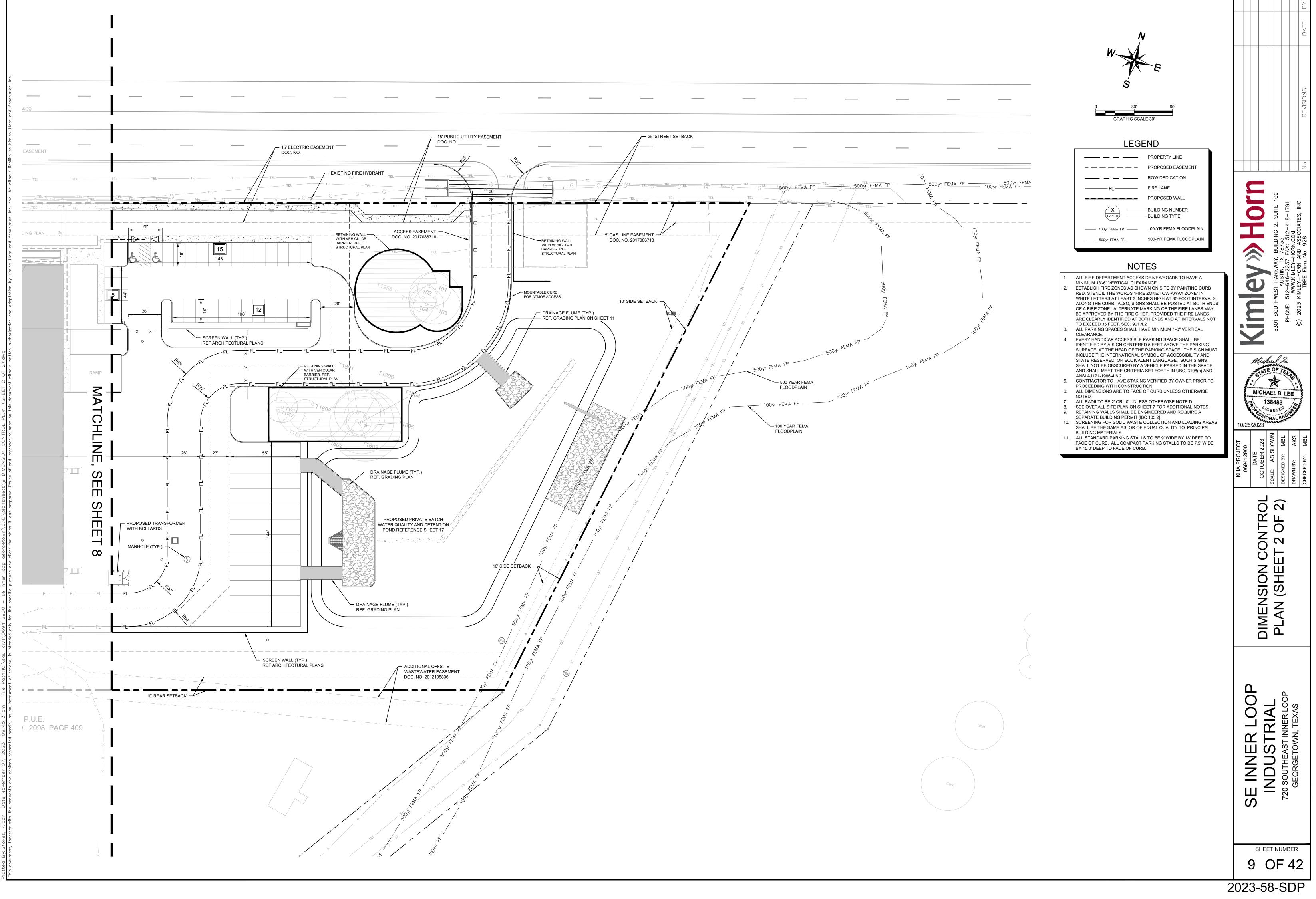


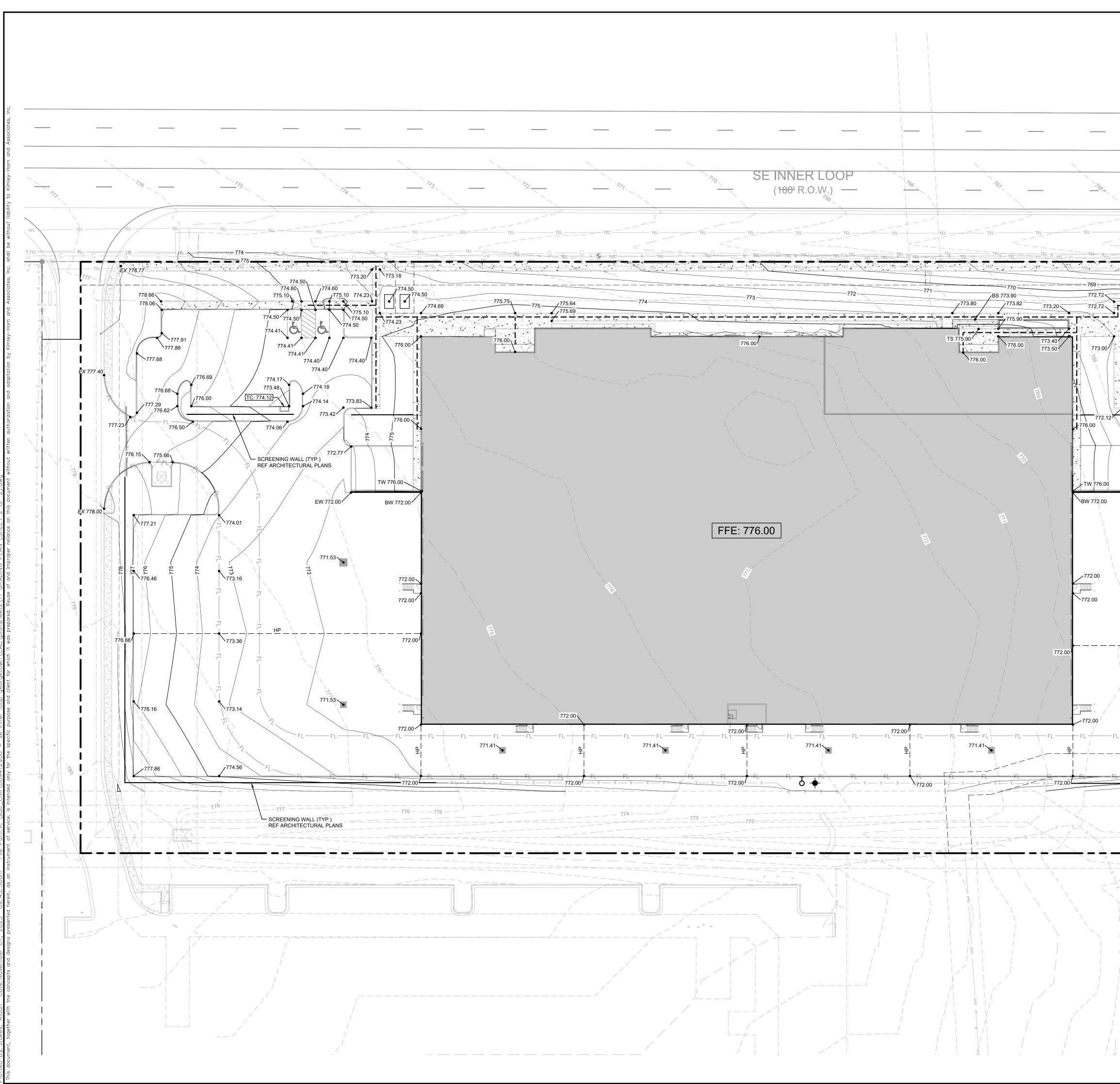


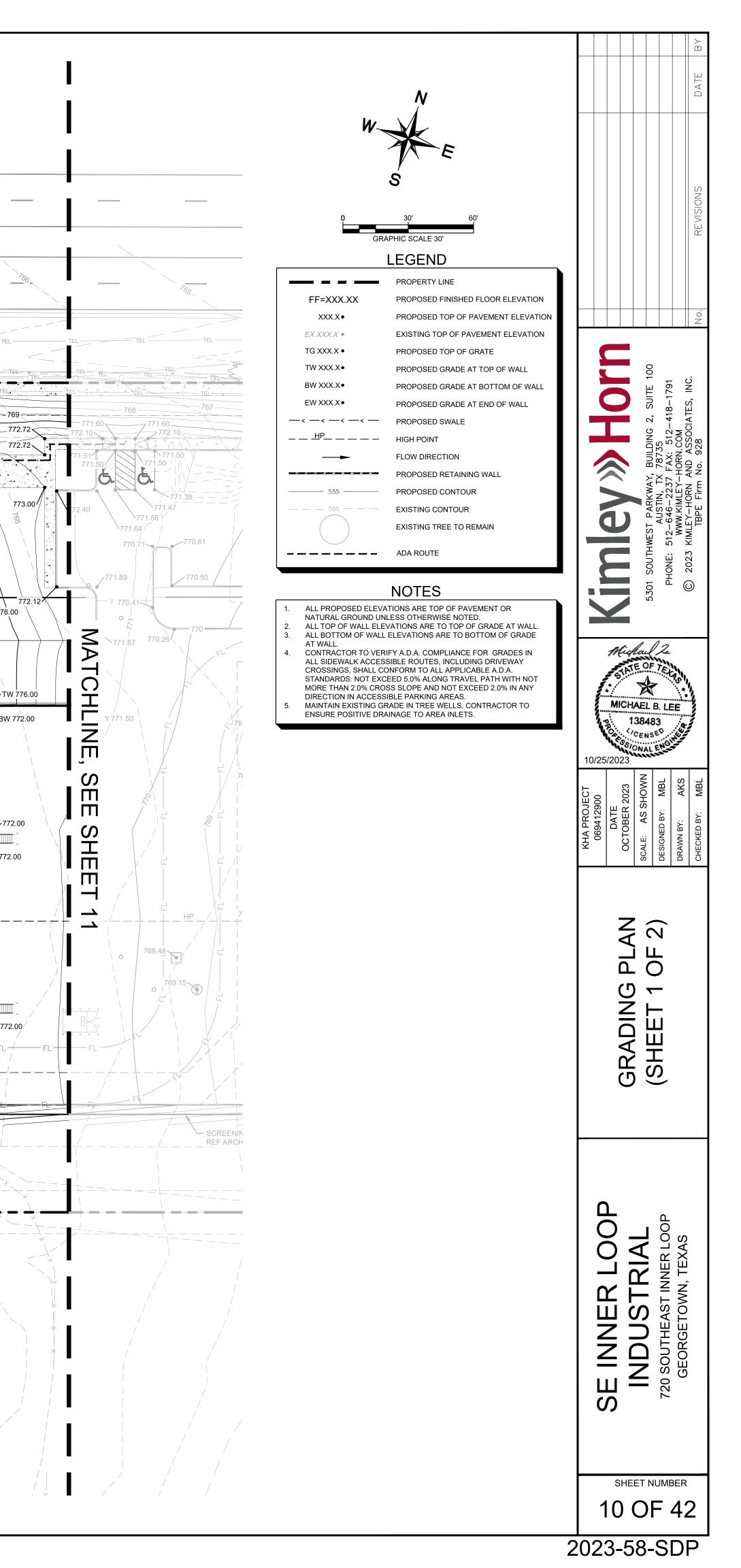
-761 TEL TEL TEL TEL RIP RAP AND FLOW SPREADER (TYP.) 764 762

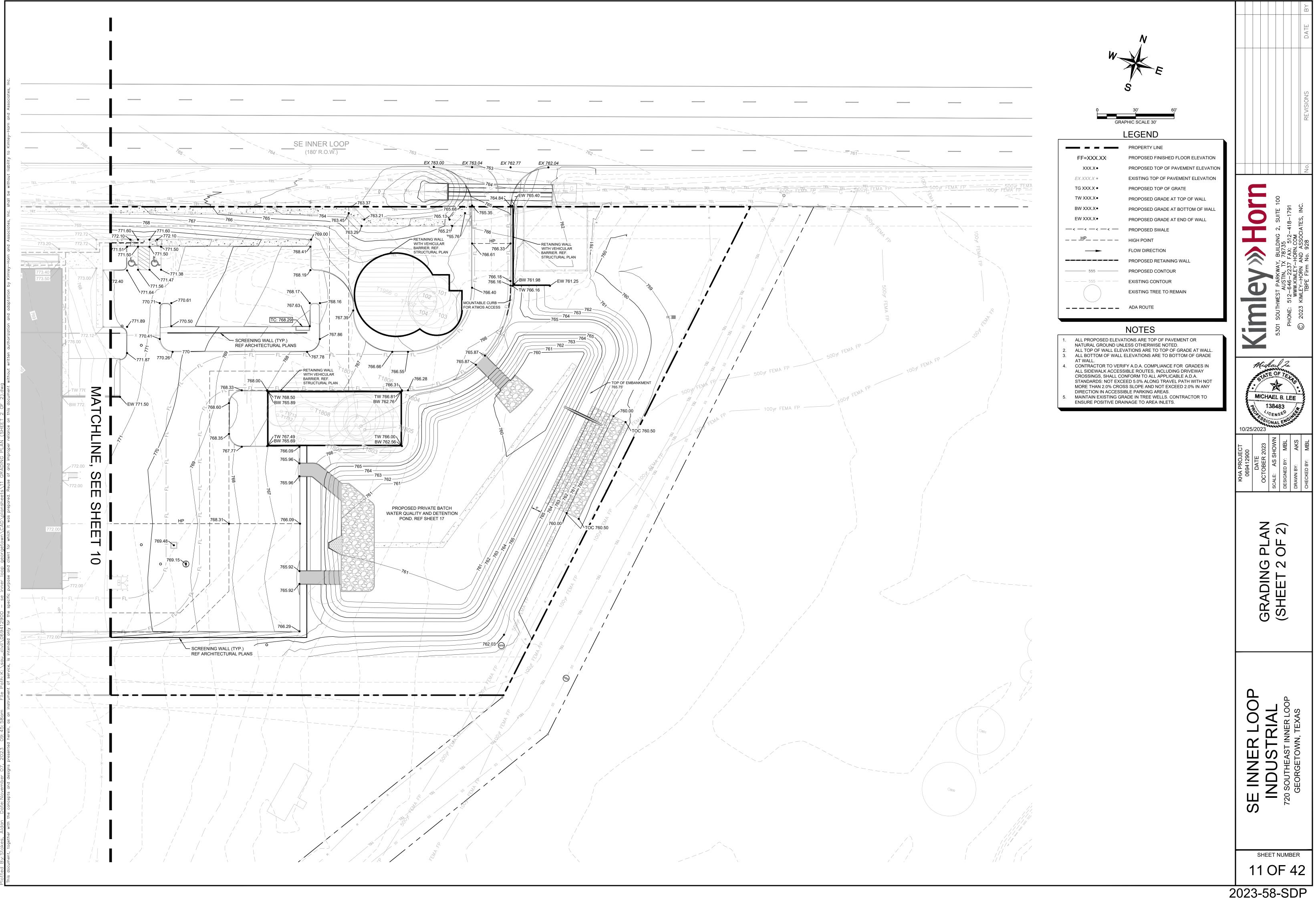


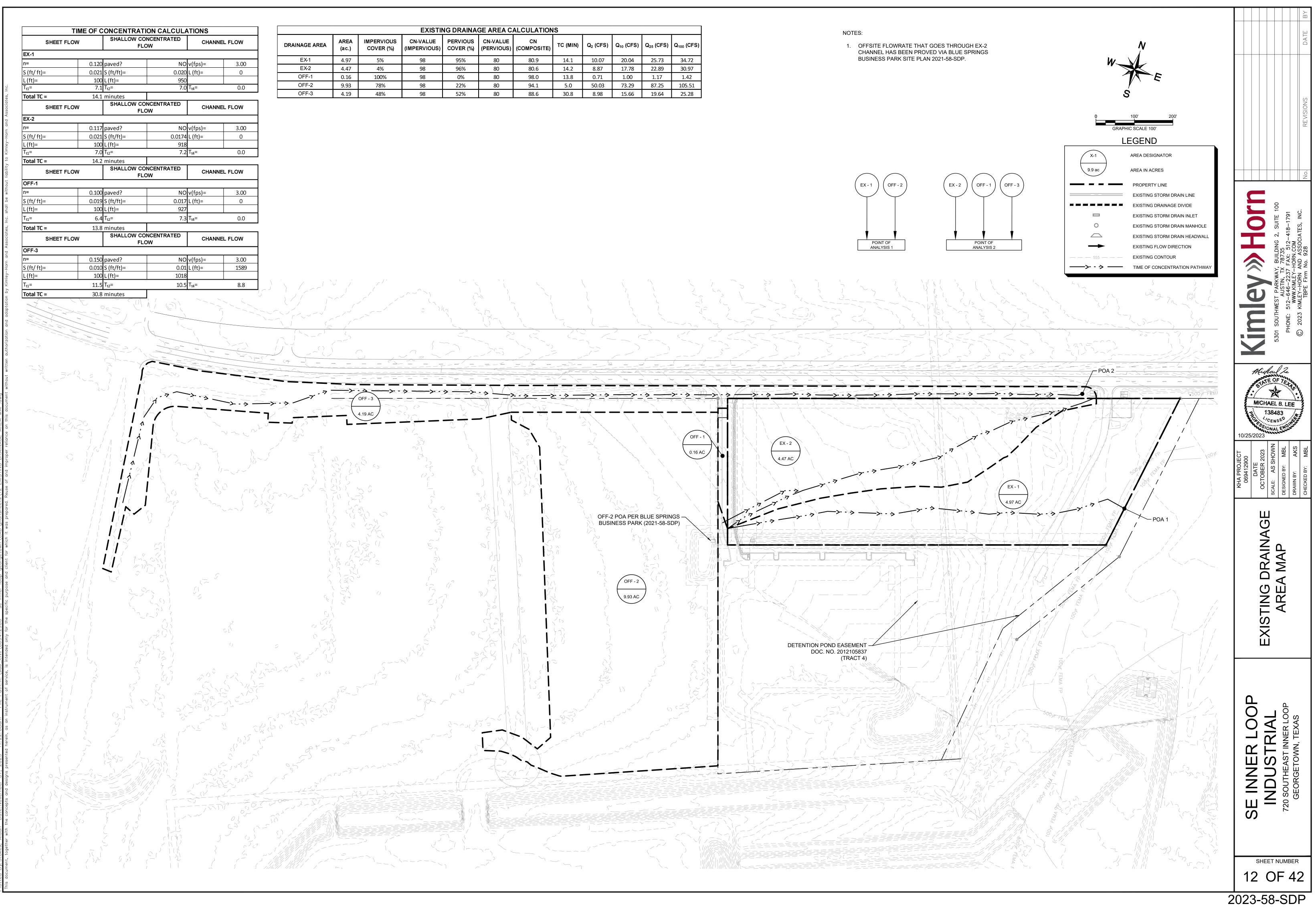










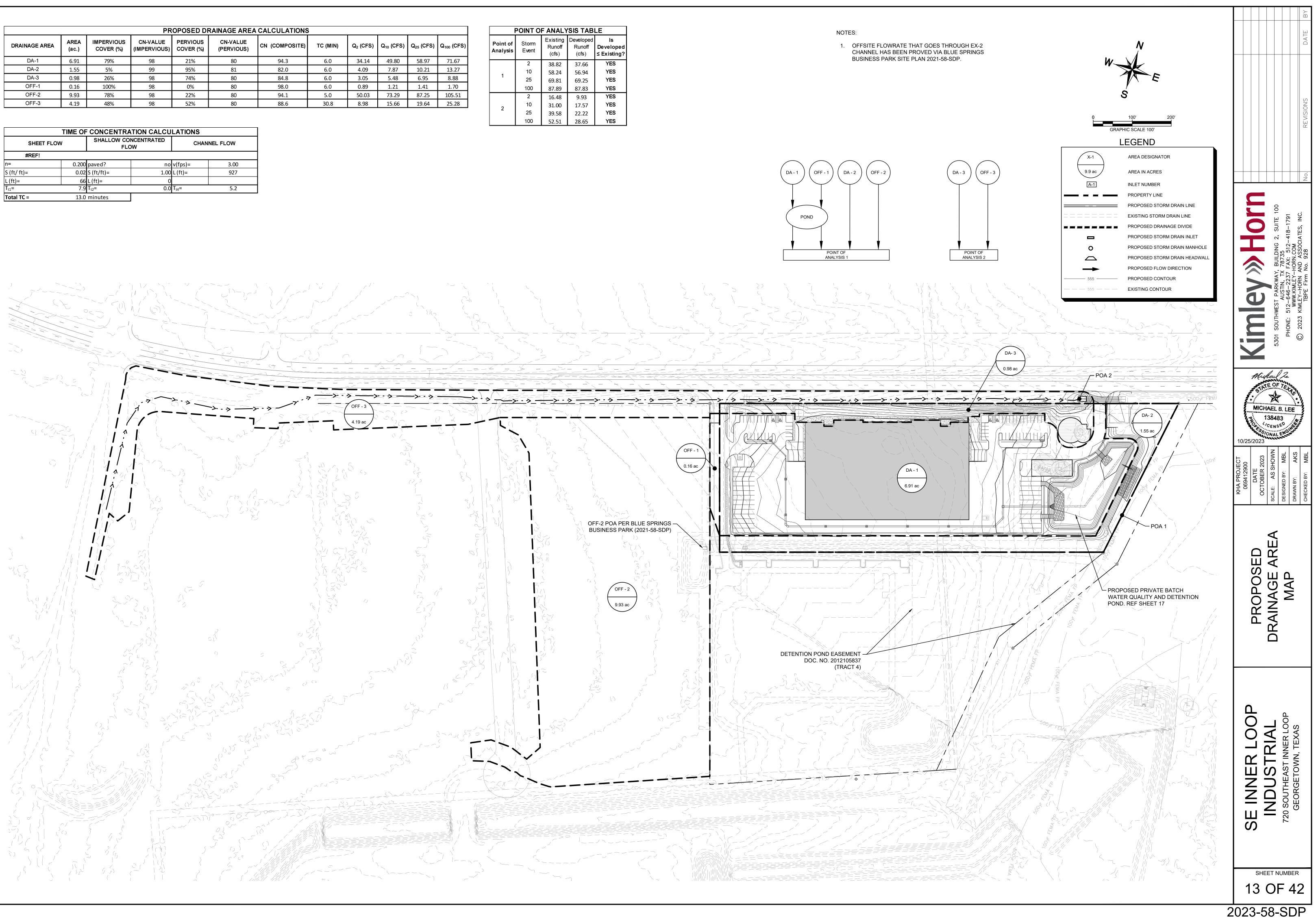


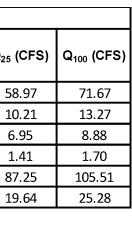
EXISTI	XISTING DRAINAGE AREA CALCULATIONS									
∕ALUE ₹VIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q ₂₅ (CFS)	Q ₁₀₀ (CFS)		
98	95%	80	80.9	14.1	10.07	20.04	25.73	34.72		
98	96%	80	80.6	14.2	8.87	17.78	22.89	30.97		
98	0%	80	98.0	13.8	0.71	1.00	1.17	1.42		
98	22%	80	94.1	5.0	50.03	73.29	87.25	105.51		
98	52%	80	88.6	30.8	8.98	15.66	19.64	25.28		



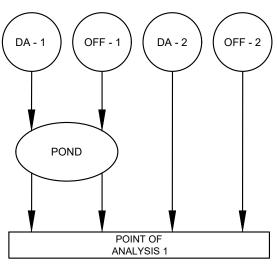
		PROPOSED DRAINAGE AREA CALCULATIONS								
DRAINAGE AREA	AREA (ac.)	IMPERVIOUS COVER (%)	CN-VALUE (IMPERVIOUS)	PERVIOUS COVER (%)	CN-VALUE (PERVIOUS)	CN (COMPOSITE)	TC (MIN)	Q ₂ (CFS)	Q ₁₀ (CFS)	Q
DA-1	6.91	79%	98	21%	80	94.3	6.0	34.14	49.80	
DA-2	1.55	5%	99	95%	81	82.0	6.0	4.09	7.87	
DA-3	0.98	26%	98	74%	80	84.8	6.0	3.05	5.48	
OFF-1	0.16	100%	98	0%	80	98.0	6.0	0.89	1.21	
OFF-2	9.93	78%	98	22%	80	94.1	5.0	50.03	73.29	
OFF-3	4.19	48%	98	52%	80	88.6	30.8	8.98	15.66	

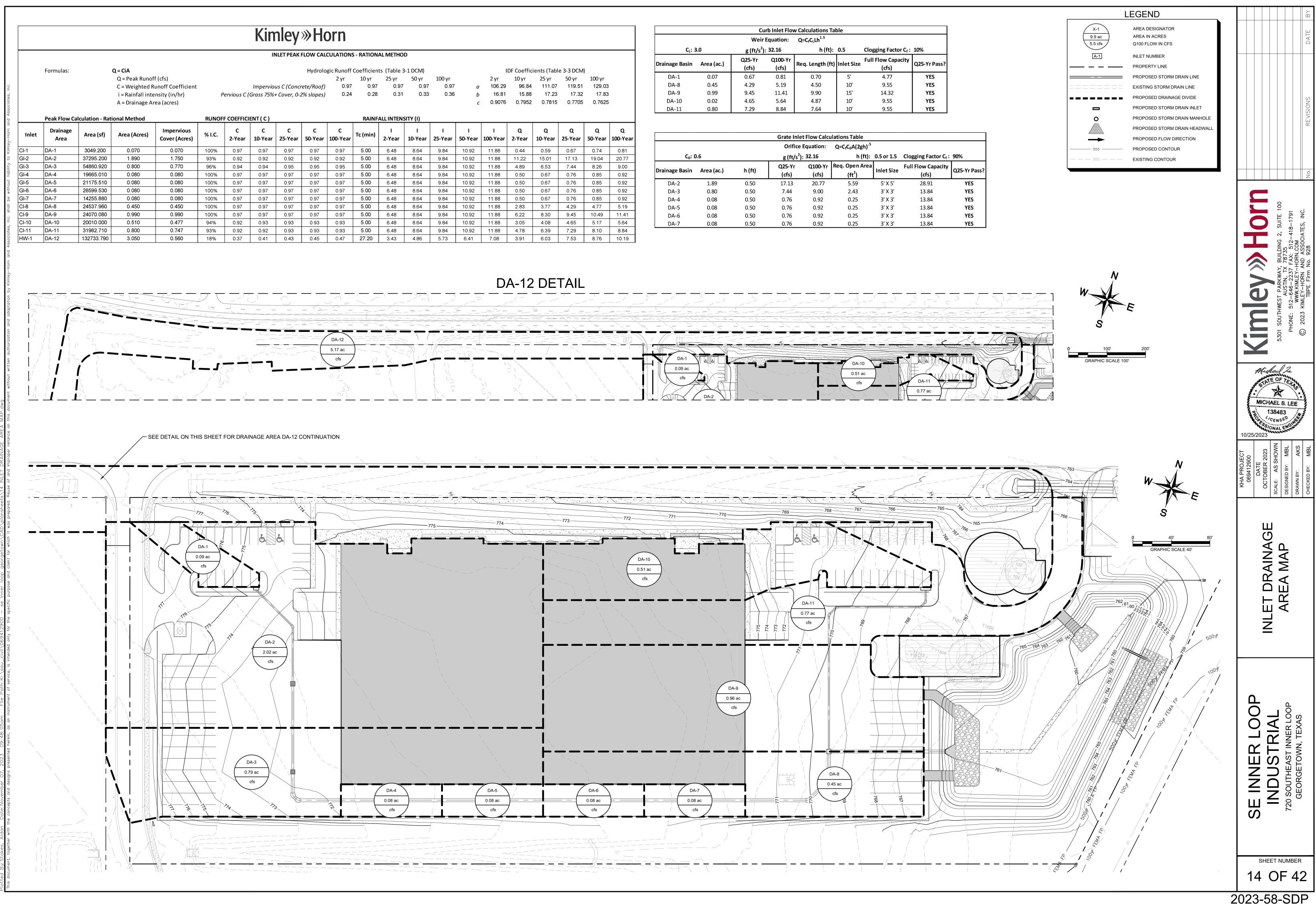
	TIME OF	CONCENT	CONCENTRATION CALCULATIONS						
SHEET FLOW			CONCENTRATED	CHANNEL FLOW					
#REF!									
n=	0.200	paved?	no	v(fps)=	3.00				
S (ft/ ft)=	0.02	S (ft/ft)=	1.00	L (ft)=	927				
L (ft)=	66	L (ft)=	0						
T _{t1} =	7.9	T _{t2} =	0.0	T _{t4} =	5.2				
Total TC =	13.0	minutes							





	POINT O	F ANALY	SIS TAB	LE
Point of Analysis	Storm Event	Existing Runoff (cfs)	Developed Runoff (cfs)	ls Developed ≤ Existing?
	2	38.82	37.66	YES
1	10	58.24	56.94	YES
1	25	69.81	69.25	YES
	100	87.89	87.83	YES
	2	16.48	9.93	YES
2	10	31.00	17.57	YES
2	25	39.58	22.22	YES
	100	52.51	28.65	YES

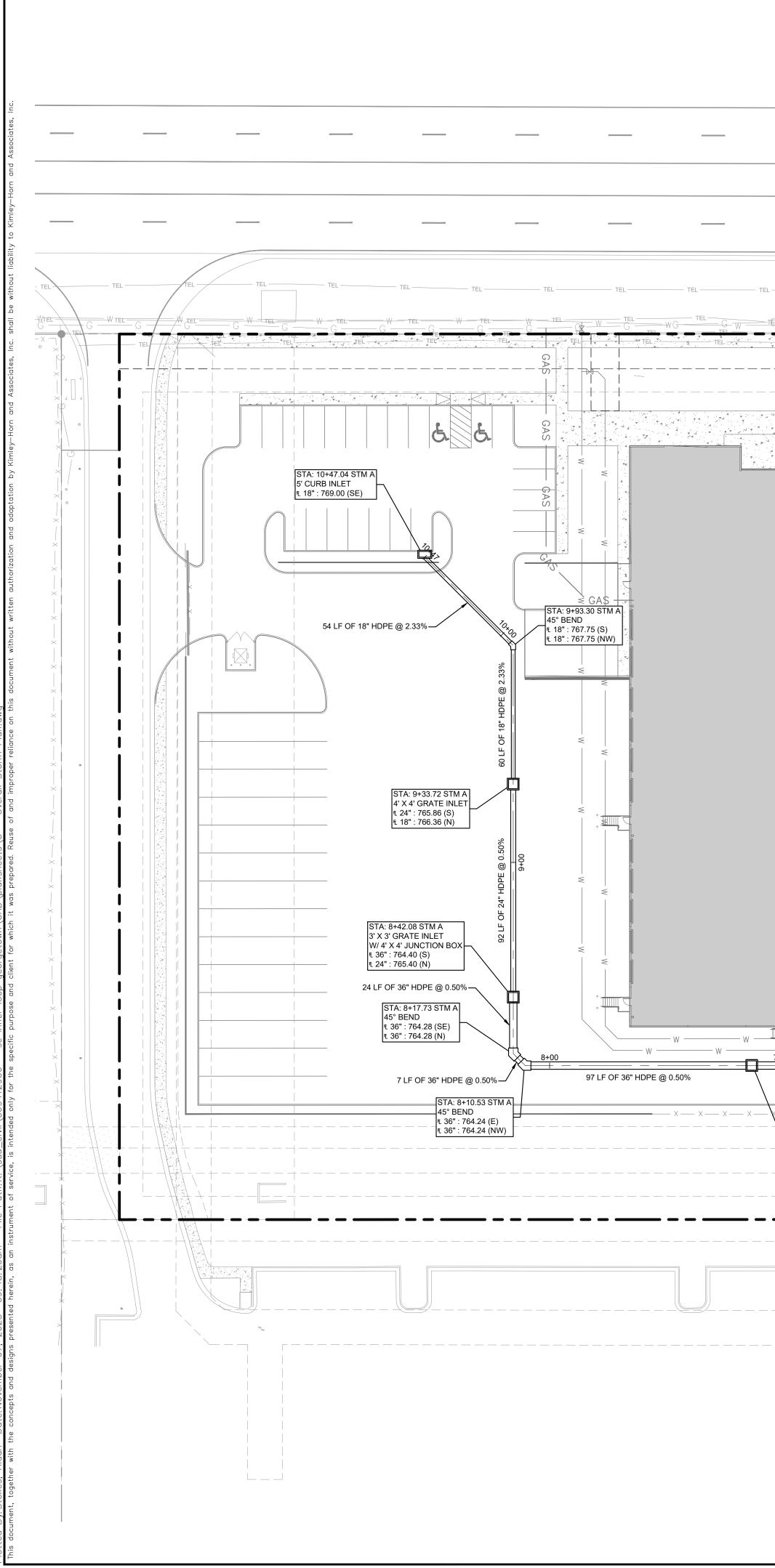




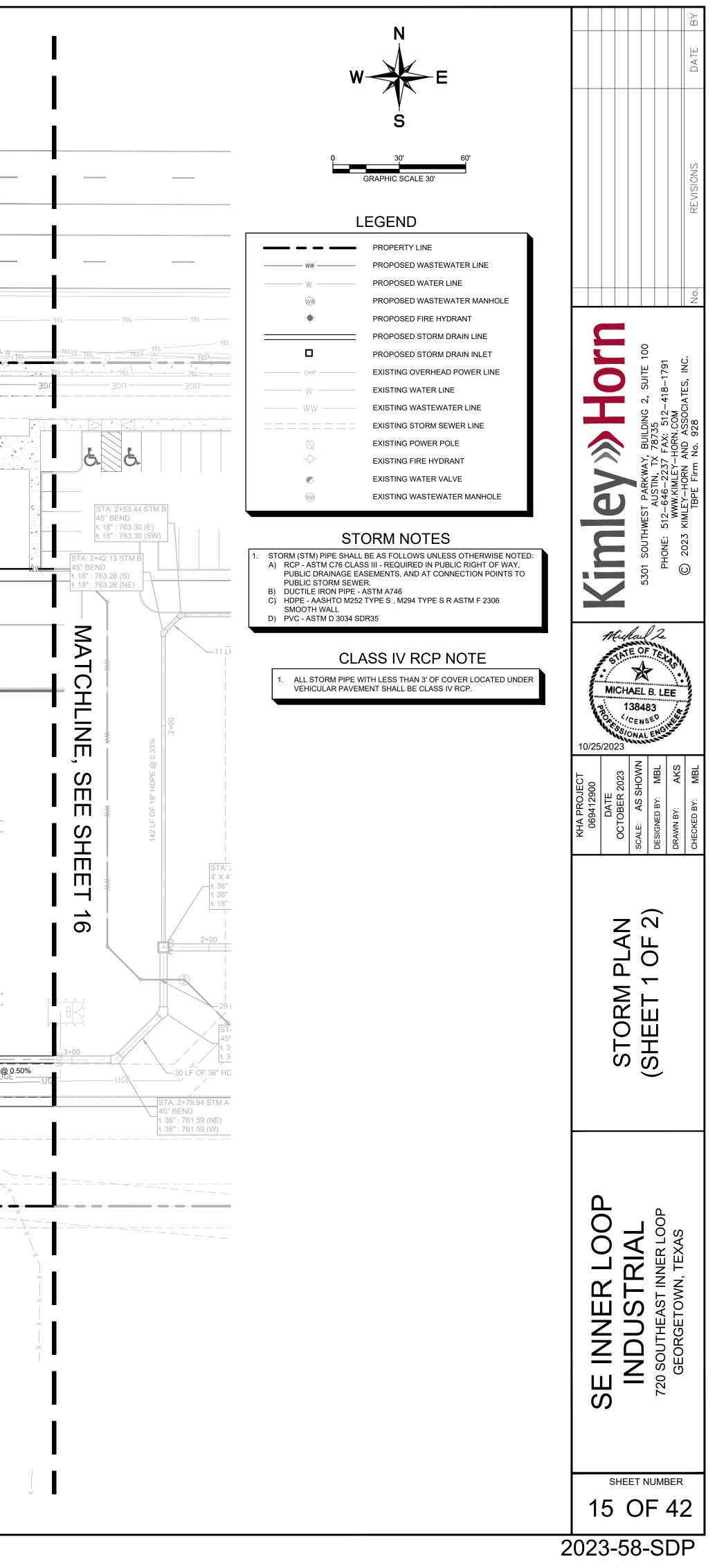
7	100 yr 0.97 0.36	a b c	l 2 yr 106.29 16.81 0.9076	15.88	25 yr 111.07 17.23	50 yr 119.51 17.32	100 yr 129.03	
	l 25-Year	l 50-Year	l 100-Year	Q 2-Year	Q 10-Year	Q 25-Year	Q 50-Year	Q 100-Year
	9.84	10.92	11.88	0.44	0.59	0.67	0.74	0.81
	9.84	10.92	11.88	11.22	15.01	17.13	19.04	20.77
	9.84	10.92	11.88	4.89	6.53	7.44	8.26	9.00
	9.84	10.92	11.88	0.50	0.67	0.76	0.85	0.92
	9.84	10.92	11.88	0.50	0.67	0.76	0.85	0.92
	9.84	10.92	11.88	0.50	0.67	0.76	0.85	0.92
	9.84	10.92	11.88	0.50	0.67	0.76	0.85	0.92
	9.84	10.92	11.88	2.83	3.77	4.29	4.77	5.19
	9.84	10.92	11.88	6.22	8.30	9.45	10.49	11.41
	9.84	10.92	11.88	3.05	4.08	4.65	5.17	5.64
	9.84	10.92	11.88	4.78	6.39	7.29	8.10	8.84
	5.73	6.41	7.08	3.91	6.03	7.53	8.76	10.19

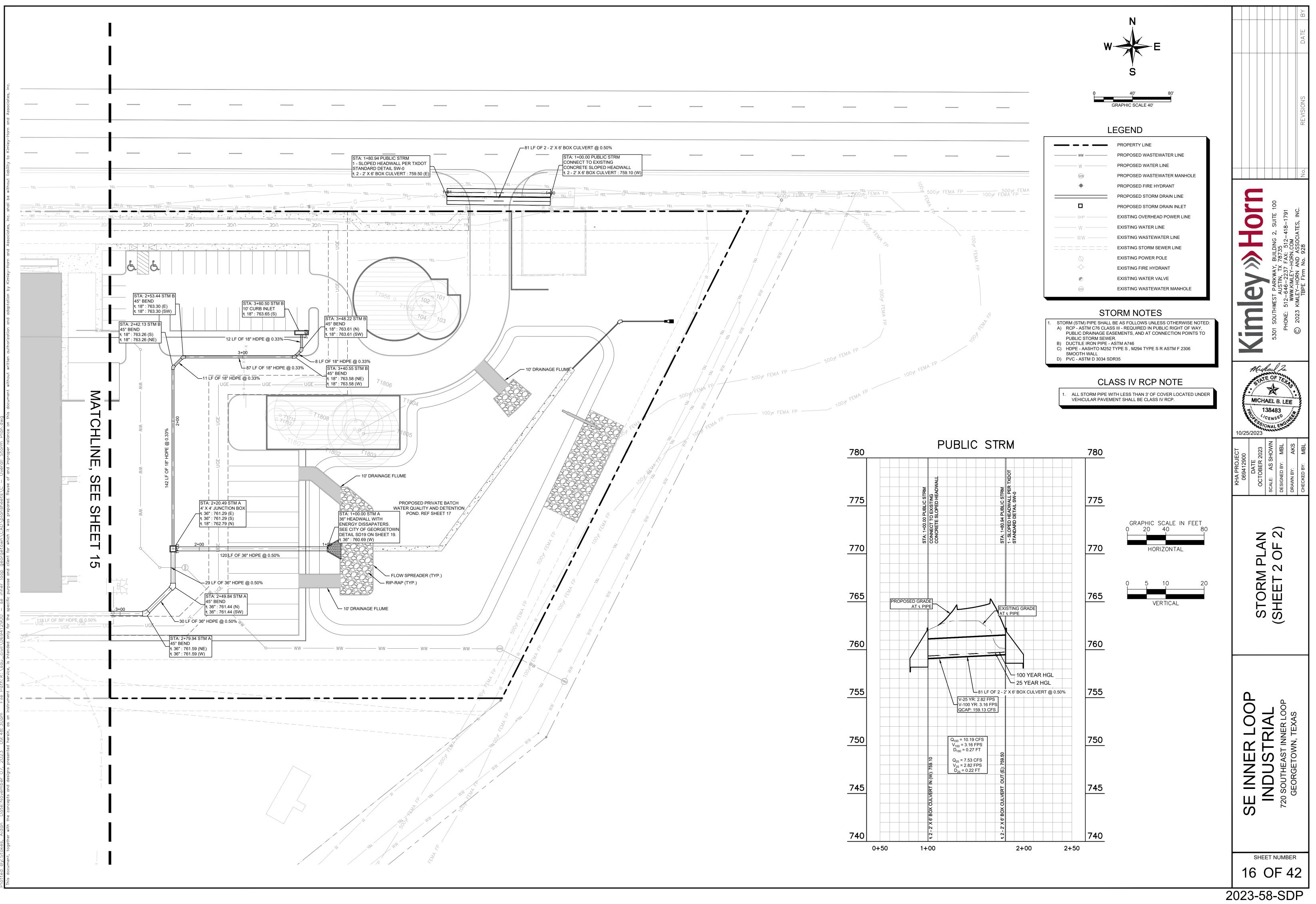
		Cι	urb Inlet Flov	w Calculations Tal	ble		
		Weir	Equation:	Q=C _f C _L Lh ^{1.5}			
С _L : З	8.0	g (ft/s²)	: 32.16	h (ft):	0.5	Clogging Factor C_f :	
Drainage Basin	Area (ac.)	Q25-Yr (cfs)	Q100-Yr (cfs)	Req. Length (ft)	Inlet Size	Full Flow Capacity (cfs)	
DA-1	0.07	0.67	0.81	0.70	5'	4.77	ĺ
DA-8	0.45	4.29	5.19	4.50	10'	9.55	
DA-9	0.99	9.45	11.41	9.90	15'	14.32	
DA-10	0.02	4.65	5.64	4.87	10'	9.55	
DA-11	0.80	7.29	8.84	7.64	10'	9.55	

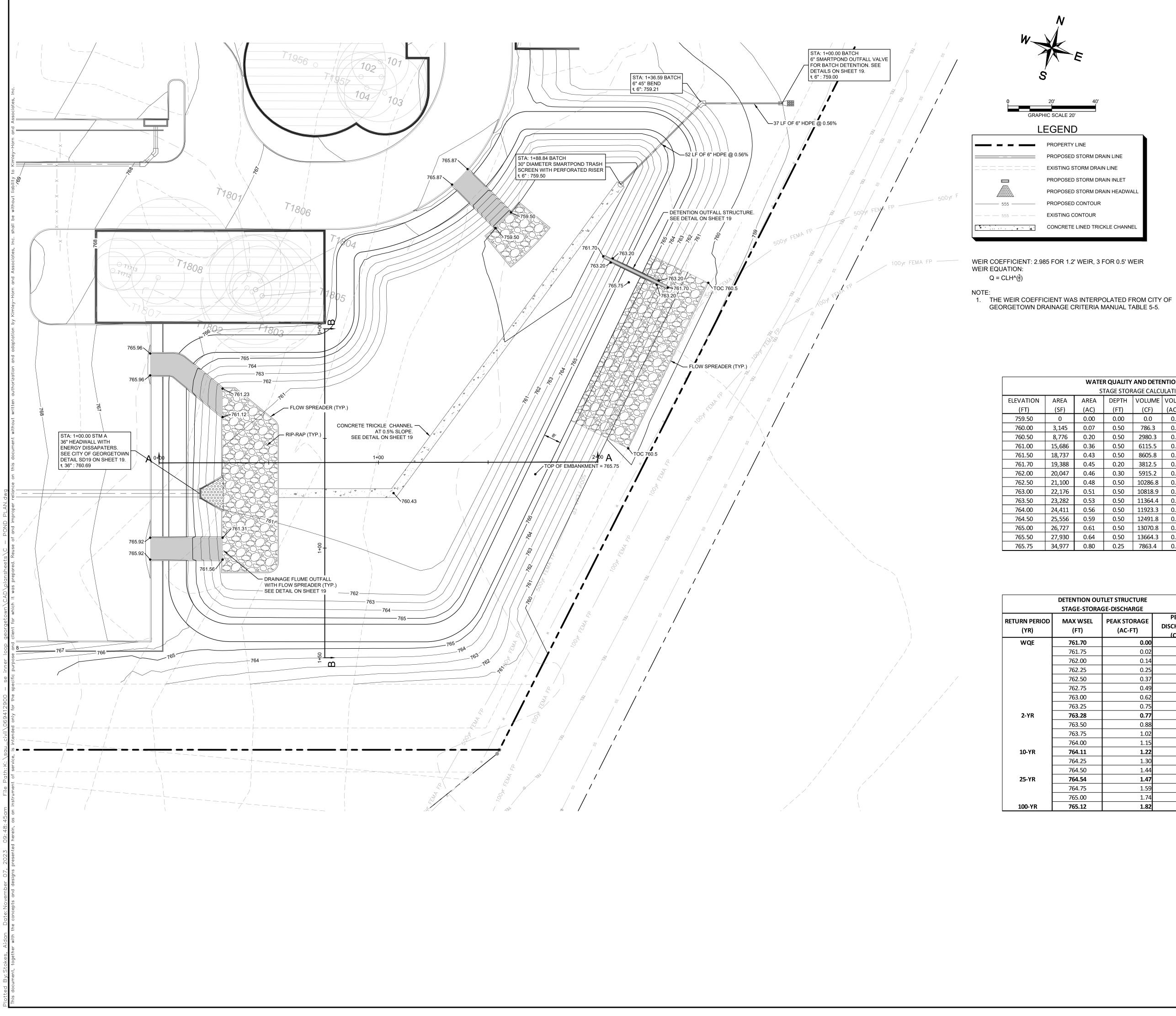
			Grate Inle	t Flow Calcu	lations Table		
			Orifice	Equation:	Q=C _f C ₀ A(2gh) ^{.5}		
C ₀ : 0).6		g (ft/s ²)	: 32.16	h (ft):	0.5 or 1.5	Clog
Drainage Basin	Area (ac.)	h (ft)	Q25-Yr (cfs)	Q100-Yr (cfs)	Req. Open Area (ft ²)	Inlet Size	Full
DA-2	1.89	0.50	17.13	20.77	5.59	5' X 5'	
DA-3	0.80	0.50	7.44	9.00	2.43	3' X 3'	
DA-4	0.08	0.50	0.76	0.92	0.25	3' X 3'	
DA-5	0.08	0.50	0.76	0.92	0.25	3' X 3'	
DA-6	0.08	0.50	0.76	0.92	0.25	3' X 3'	
DA-7	0.08	0.50	0.76	0.92	0.25	3' X 3'	



							TEL TEL TEL
						- OCE	
W W 7+00 W 105 LF OF 36" HI 3' X 3' GRATE INLET W/ 4' X 4' JUNCTION BOX € 36" : 763.76 (E) € 36" : 763.76 (W)	X X X	W W 105 LF OF 36" HDPE STA: 6+08.12 STM A 3' X 3' GRATE INLET W/ 4' X 4' JUNCTION BOX ₹ 36" : 763.23 (E) ₹ 36" : 763.23 (W)	@ 0.50% W]	105 LF OF 36" HDPE 105 LF OF 36" HDPE (4' X 4' JUNCTION BOX 36" : 762.71 (E) 36" : 762.71 (W) STA: 3+98.12 S 3' X 3' GRATE II W/ 4' X 4' JUNC E 36" : 762.18 (V • 36" : 762.18 (E • X	E @ 0.50%		





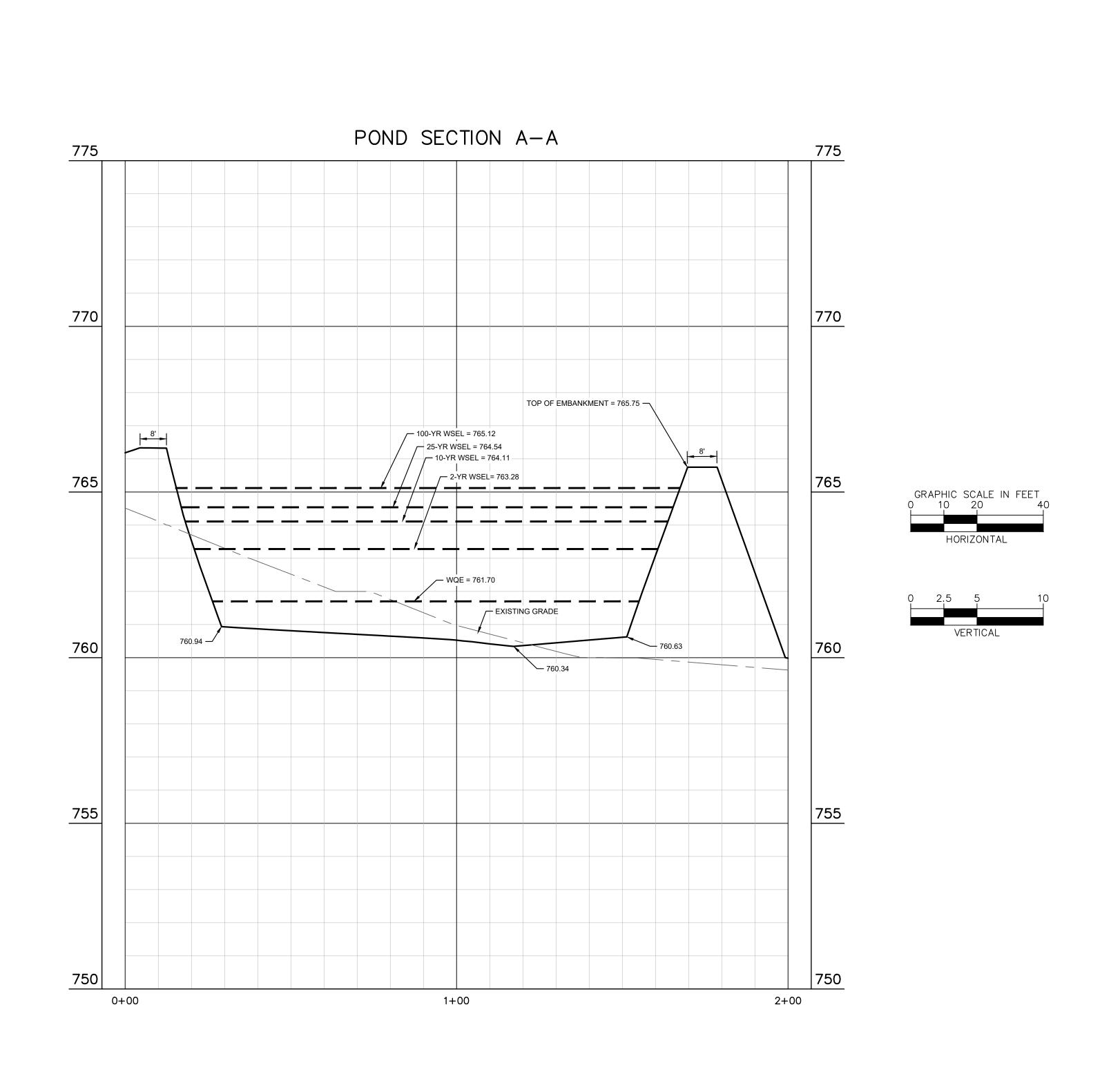


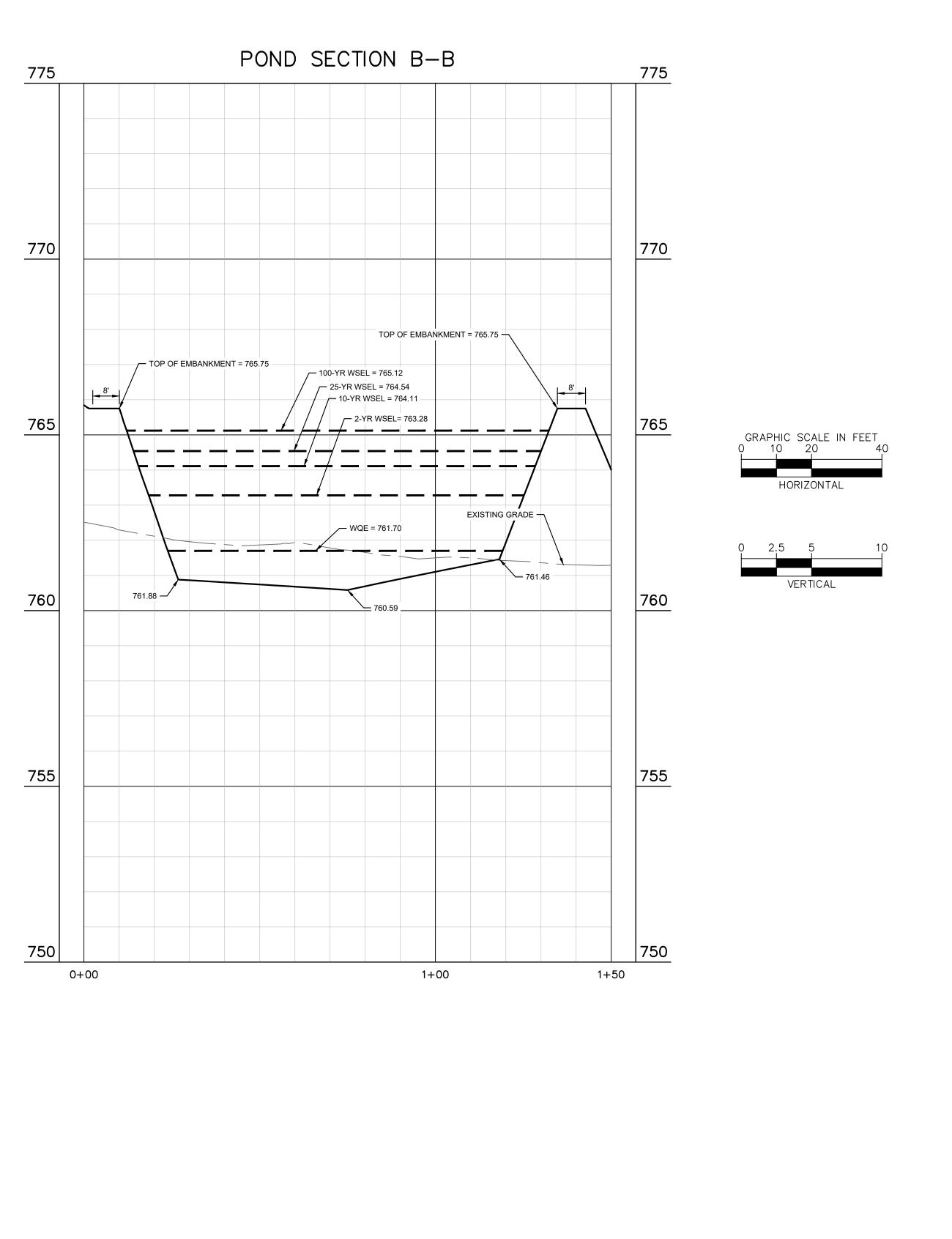
		S	TAGE STOR	AGE CALCI	JLATION		
N	AREA	AREA	DEPTH	VOLUME	VOLUME	CUMULATIVE	CUMULATIVE
	(SF)	(AC)	(FT)	(CF)	(AC-FT)	VOLUME (CF)	VOLUME (AC-FT)
	0	0.00	0.00	0.0	0.00	0.00	0.00
	3,145	0.07	0.50	786.3	0.02	786.25	0.02
	8,776	0.20	0.50	2980.3	0.07	3,766.50	0.09
	15,686	0.36	0.50	6115.5	0.14	9,882.00	0.23
	18,737	0.43	0.50	8605.8	0.20	18,487.75	0.42
	19,388	0.45	0.20	3812.5	0.09	22,300.25	0.51
	20,047	0.46	0.30	5915.2	0.14	28,215.50	0.65
	21,100	0.48	0.50	10286.8	0.24	38,502.25	0.88
	22,176	0.51	0.50	10818.9	0.25	49,321.13	1.13
	23,282	0.53	0.50	11364.4	0.26	60,685.51	1.39
	24,411	0.56	0.50	11923.3	0.27	72,608.76	1.67
	25,556	0.59	0.50	12491.8	0.29	85,100.51	1.95
	26,727	0.61	0.50	13070.8	0.30	98,171.26	2.25
	27,930	0.64	0.50	13664.3	0.31	111,835.51	2.57
	34,977	0.80	0.25	7863.4	0.18	119,698.89	2.75

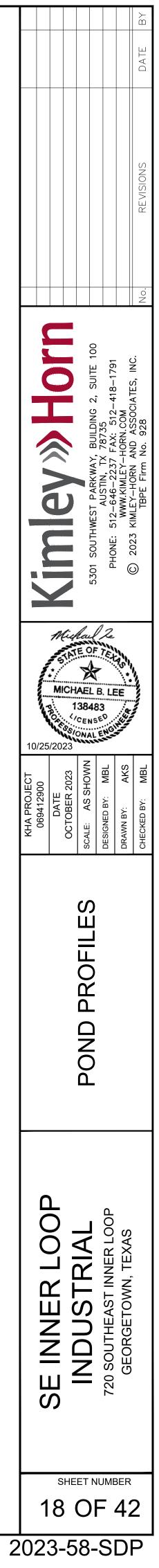
WATER QUALITY AND DETENTION POND

	STAGE-STORA	GE-DISCHARGE	
lod	MAX WSEL (FT)	PEAK STORAGE (AC-FT)	PEAK DISCHARGE (CFS)
	761.70	0.00	0.00
	761.75	0.02	0.04
	762.00	0.14	0.60
	762.25	0.25	1.45
	762.50	0.37	2.55
	762.75	0.49	3.82
	763.00	0.62	5.31
	763.25	0.75	6.90
	763.28	0.77	7.13
	763.50	0.88	8.90
	763.75	1.02	11.10
	764.00	1.15	13.55
	764.11	1.22	14.66
	764.25	1.30	16.15
	764.50	1.44	19.00
	764.54	1.47	19.53
	764.75	1.59	21.92
	765.00	1.74	25.11
	765.12	1.82	26.67

SE INNER LOOP WATER QUAITY MARROLET O LATE 060412800 00412800 O LATE 060412800 004120 O LATE 06041200 06041200 NUDUSTRIAL 0000 Text 0000 Text AND DETENTION 0000 Text 0000 Text CODER 2023 0000 Text 0000 Text Taxt 0000 Text 0000 Text								В≺
Real Revolution SE INNER LOOP NDUSTRIAL AND DETENTION Eastering								DATE
Real Revolution SE INNER LOOP NDUSTRIAL AND DETENTION Eastering								
Real Revolution SE INNER LOOP NDUSTRIAL AND DETENTION Eastering								SIONS
SE INNER LOOP KHA PROJECT SE INNER LOOP WATER QUALITY SE INNER LOOP MATER QUALITY NDUSTRIAL DATE CODER 2003 DATE CODER 2003 NDUSTRIAL Seate 38 Houring Seate 38 Houring NDUSTRIAL Seate 38 Houring Seate 38 Houring Seate 38 Houring NDUSTRIAL Seate 38 Houring Seate 38 Houring Seate 38 Houring Seate 38 Houring NDUSTRIAL Seate 38 Houring Top SoutHeast INNER LOOP BOUD PLAN Reamering Seate 38 Houring Seate								REVIS
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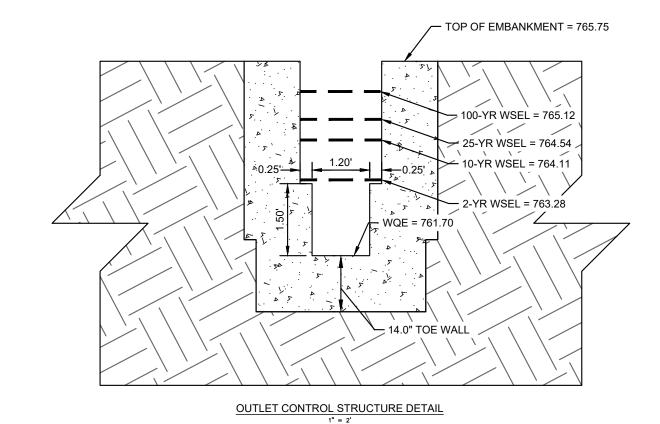


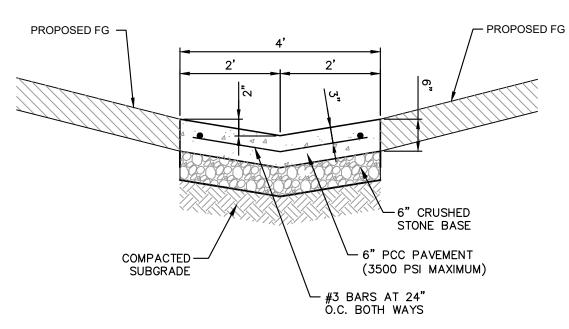


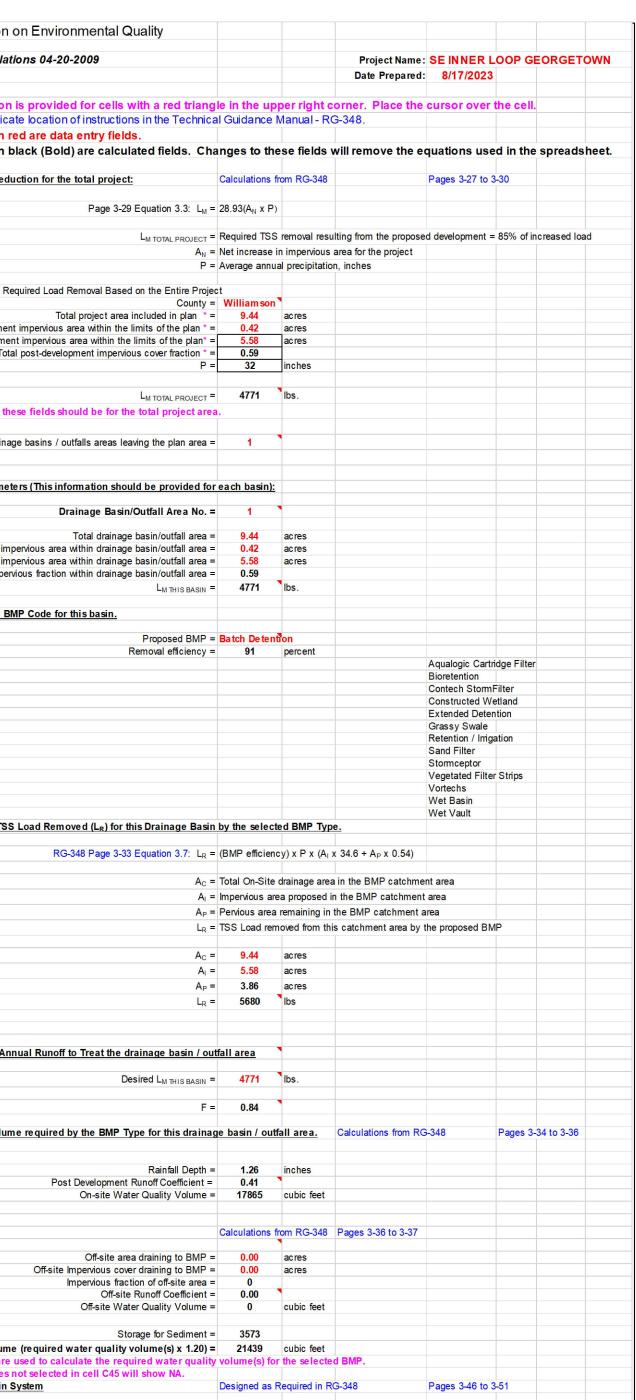
CITY OF GEORGETOWN 85% TSS REMOVAL CALCULATIONS

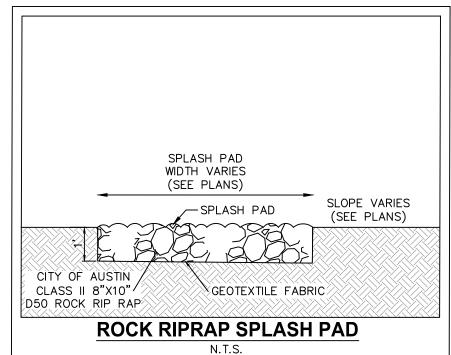
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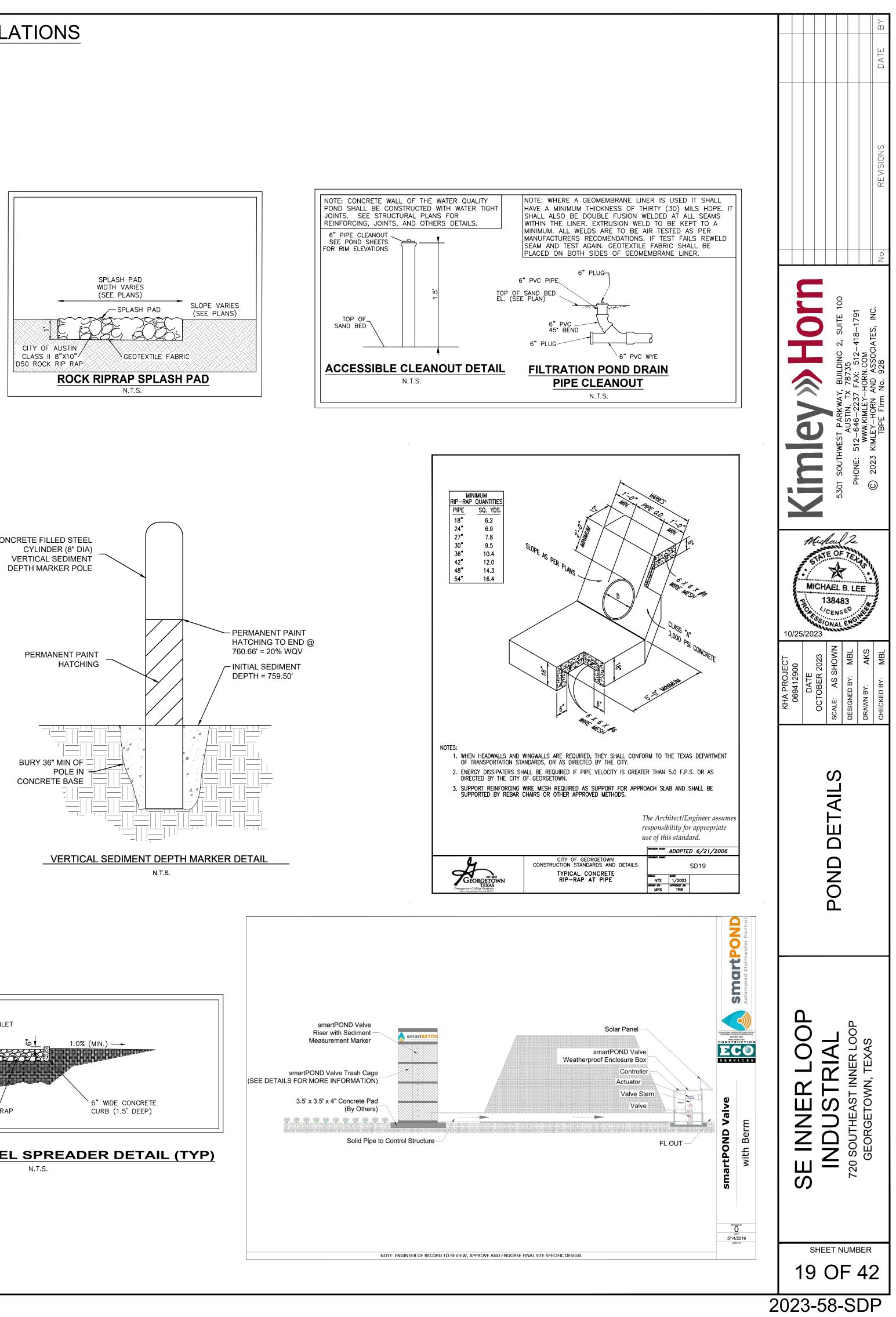
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	nformation is provided for cells with a red triangle in n blue indicate location of instructions in the Technical Gu				cursor over	the cell.			Additional information is provided for cells with a red triang Text shown in blue indicate location of instructions in the Technic		
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	shown in red are data entry fields. shown in black (Bold) are calculated fields. Change	es to the	se fields v	will remove the er	uations use	d in the	spreads	heet	Characters shown in red are data entry fields. Characters shown in black (Bold) are calculated fields. Ch	nanges to th	hese
						u in the	oproduce			langee te th	
The Require	ed Load Reduction for the total project: Calc	culations fro	m RG-348		Pages 3-27 to 3	-30			1. The Required Load Reduction for the total project:	Calculations	from
	Page 3-29 Equation 3.3: $L_{M} = 27.2$	2(A _N x P)							Page 3-29 Equation 3.3: L _M	= 28.93(A _N x P	P)
	m										
where:	L _{M TOTAL PROJECT} = Requ				development =	80% of in	creased lo	ad	where: L _{M TOTAL PROJECT}		
	.,			area for the project						= Net increase	
	P = Aver	age annual	l precipitation	I, Inches						= Average annu	ual pr
Site Data:	Determine Required Load Removal Based on the Entire Project								Site Data: Determine Required Load Removal Based on the Entire Proje		
	County = Wil Total project area included in plan * =								County Total project area included in plan	= Williamson = 9.44	
Pr			acres acres						Predevelopment impervious area within the limits of the plan *		aci
Total pos			acres						Total post-development impervious area within the limits of the plan*	= 5.58	acı
		0.59	inches						Total post-development impervious cover fraction *		line
	P =	32	inches			+			P.	= 32	inc
	LM TOTAL PROJECT =	4485	lbs.							= 4771	Ibs.
The values e	entered in these fields should be for the total project area.								 * The values entered in these fields should be for the total project are 		
											-
Num	mber of drainage basins / outfalls areas leaving the plan area =	1							Number of drainage basins / outfalls areas leaving the plan area	= 1	
Drainage Ba	asin Parameters (This information should be provided for each	<u>n basin):</u>							2. Drainage Basin Parameters (This information should be provided for	or each basin):	<u>):</u>
	Drainage Basin/Outfall Area No. =	1							Drainage Basin/Outfall Area No.	= 1	
Predo			acres acres						Total drainage basin/outfall area Predevelopment impervious area within drainage basin/outfall area		acr
Post-dev	evelopment impervious area within drainage basin/outfall area =		acres						Post-development impervious area within drainage basin/outfall area	= 5.58	acr
	opment impervious fraction within drainage basin/outfall area =	0.59							Post-development impervious fraction within drainage basin/outfall area	= 0.59	
	L _{M THIS BASIN} =	4485	lbs.						L _M this basin ⁵	= 4771	lbs.
ndicate the	proposed BMP Code for this basin.								3. Indicate the proposed BMP Code for this basin.		_
	Proposed BMP = <mark>Batc</mark> Removal efficiency =		on percent						Proposed BMP Removal efficiency		ntron per
	Removal elliciency =	91	percent		Aqualogic Cartri	idge Filter				= 91	per
					Bioretention						
					Contech StormF Constructed We						
					Extended Deten						
					Grassy Swale						
					Retention / Irriga	ation					
					Sand Filter Stormceptor						
					Vegetated Filter	r Strips					_
					Vortechs Wet Basin						
					Wet Basin Wet Vault						_
Calculate Ma	laximum TSS Load Removed (L_R) for this Drainage Basin by the	he selecte	d BMP Type						4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basi	n by the selec	cted E
	RG-348 Page 3-33 Equation 3.7: L _R = (BM			$x 34 6 + A_{-} \times 0 54$					RG-348 Page 3-33 Equation 3.7: L _R	= (RMP officies	now
	TO-340 Fage 3-33 Equation 3.7: LR = (BM	eniciency	/ ⊼ F X (A X	. 54.0 + Ap X U.54)					RG-340 Page 3-33 Equation 3.7. LR		ncy) x
where:	A _C = Tota	al On-Site d	rainage area	a in the BMP catchmer	it area				where: A _C	= Total On-Site	e drai
	A ₁ = Impe	ervious area	proposed in	n the BMP catchment	area				A	= Impervious ar	area p
			and a late of the d								a rem
			-	the BMP catchment a					Le le	= Pervious area	
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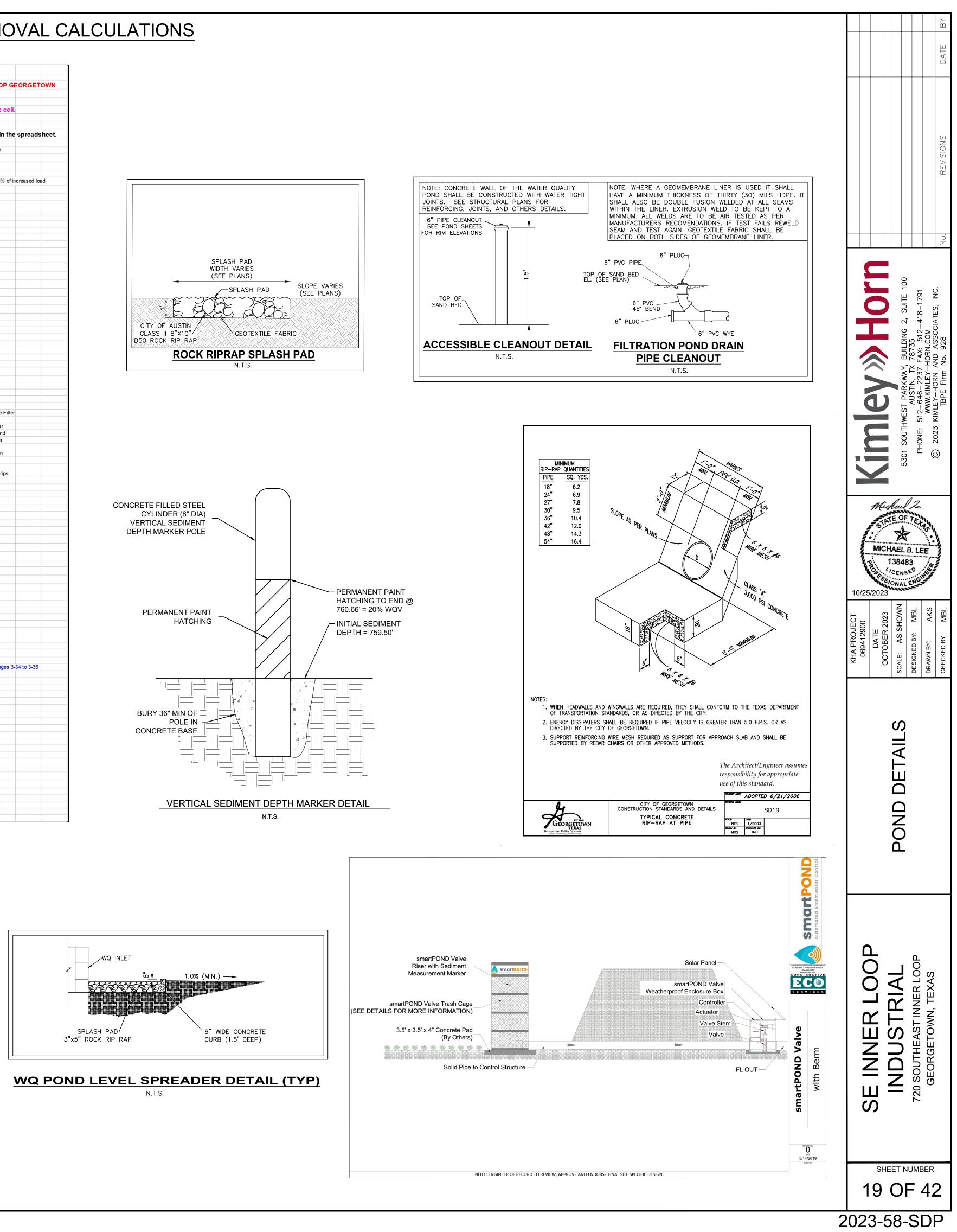


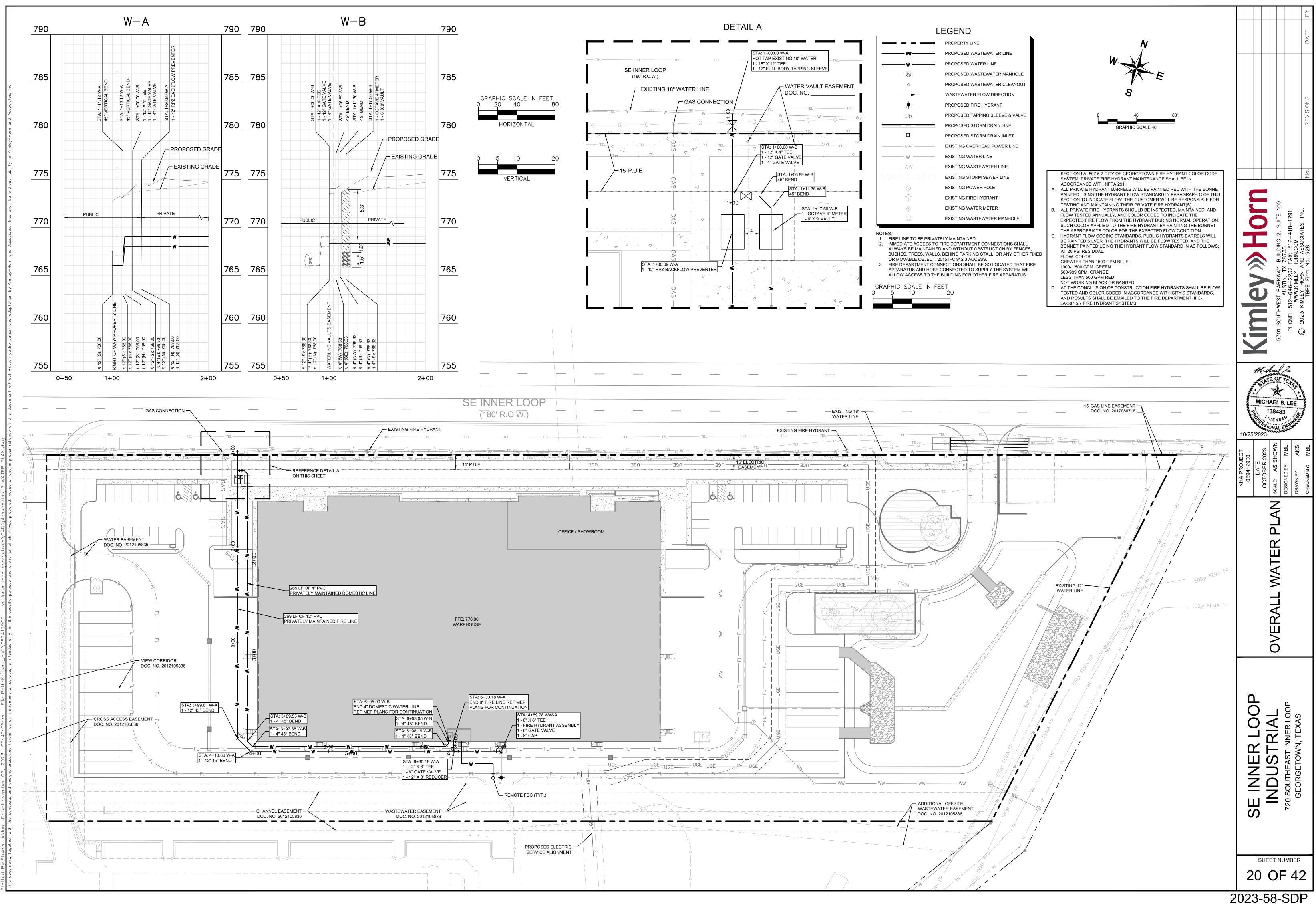


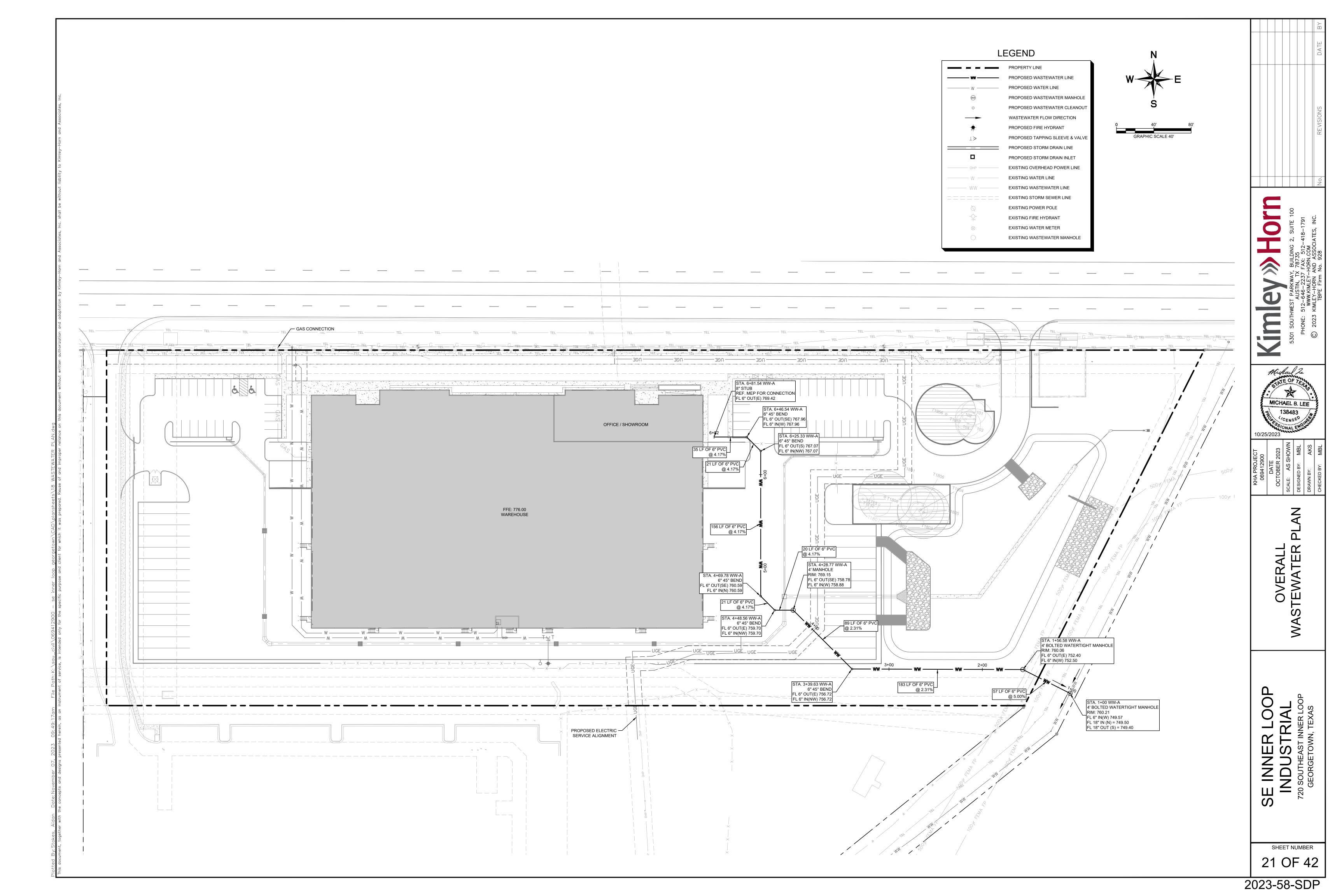


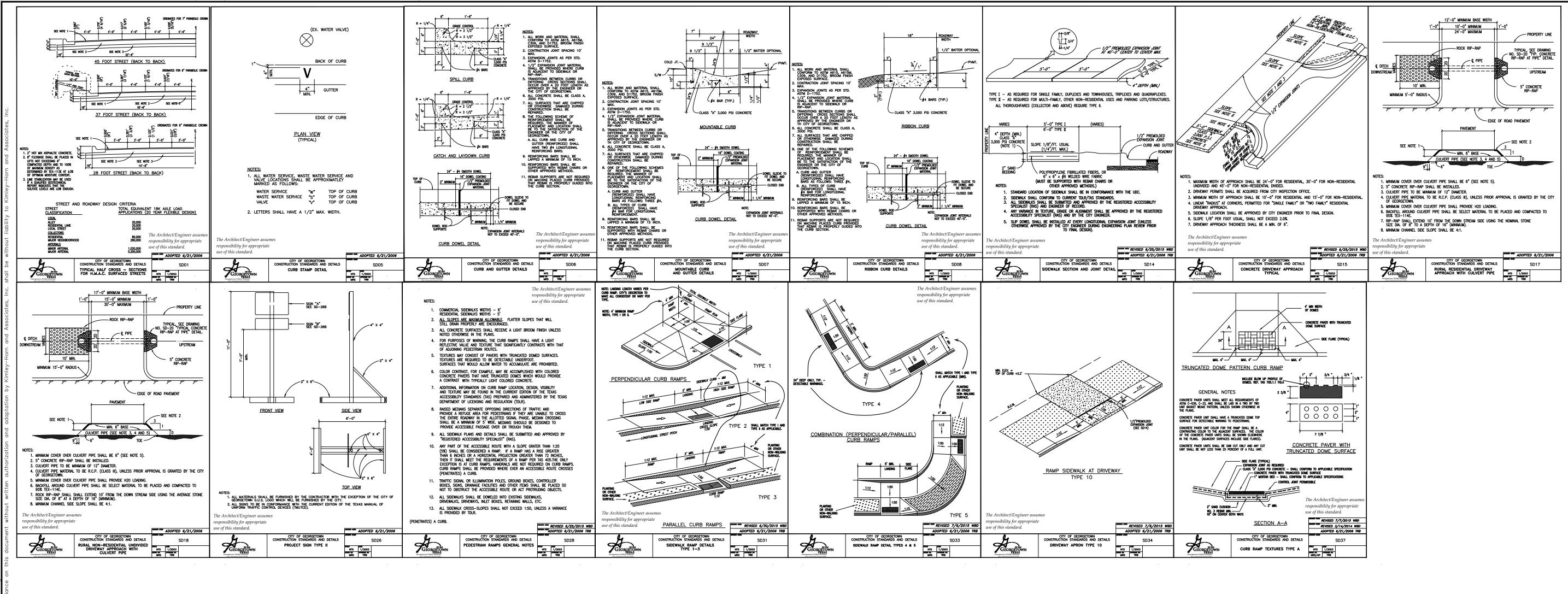




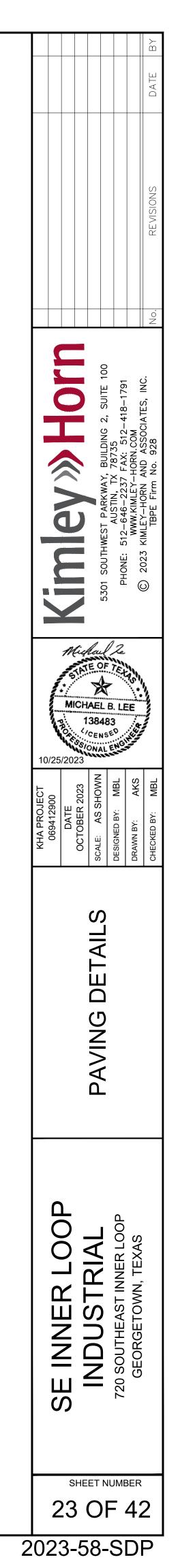


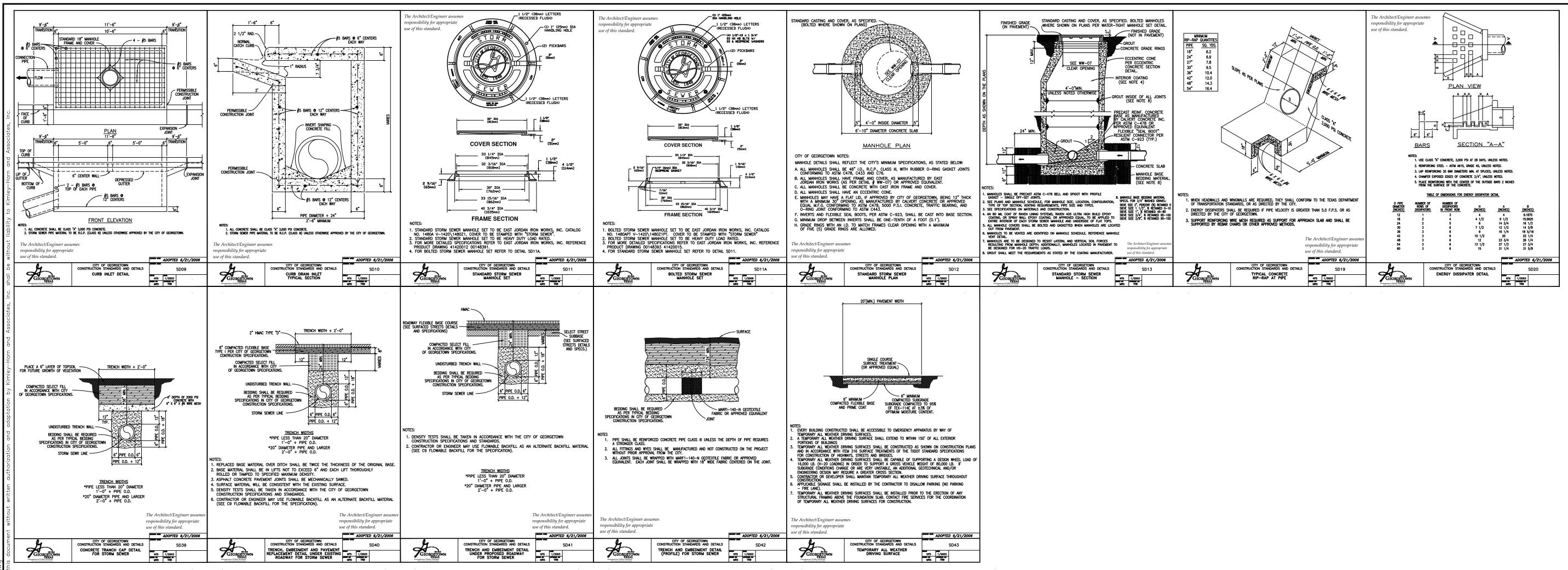






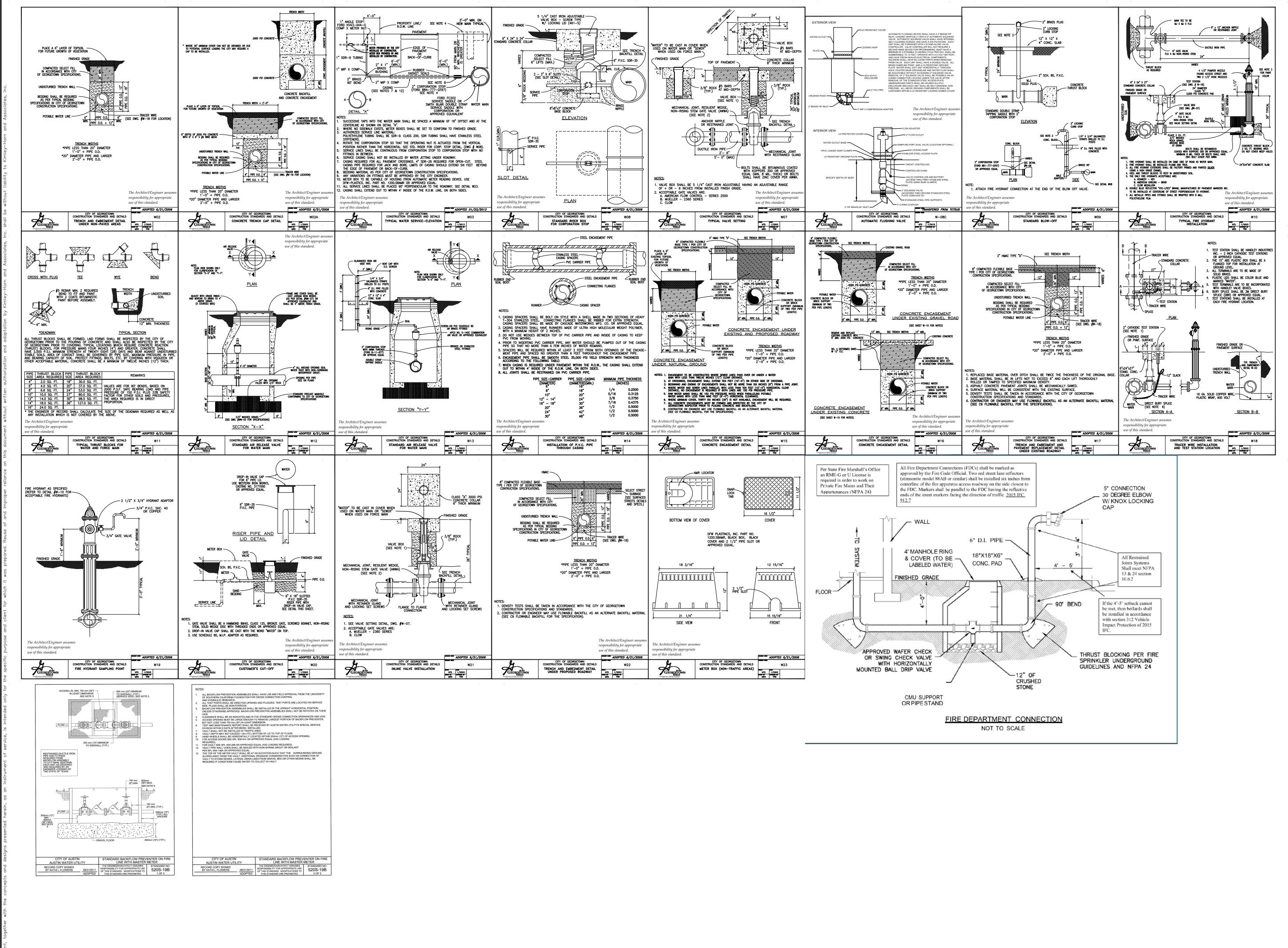
1 By: Stokes, Aidan Date: November 07, 2023 09: 49: 39am File Path: K: \sau_civil \069412900 - se inner loop georgetown \CAD \plansheets \20 PAVING DETAILS.dwg

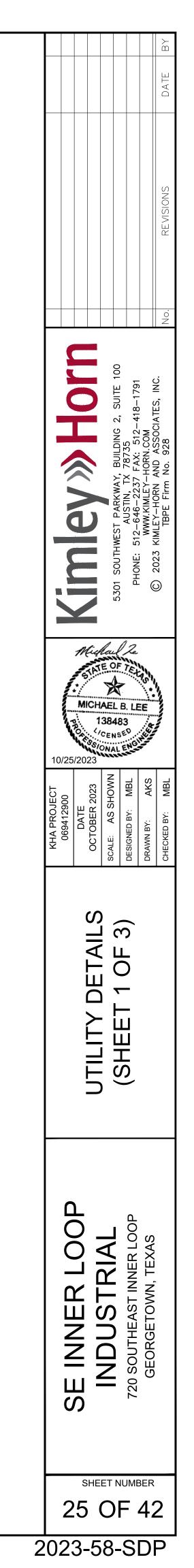


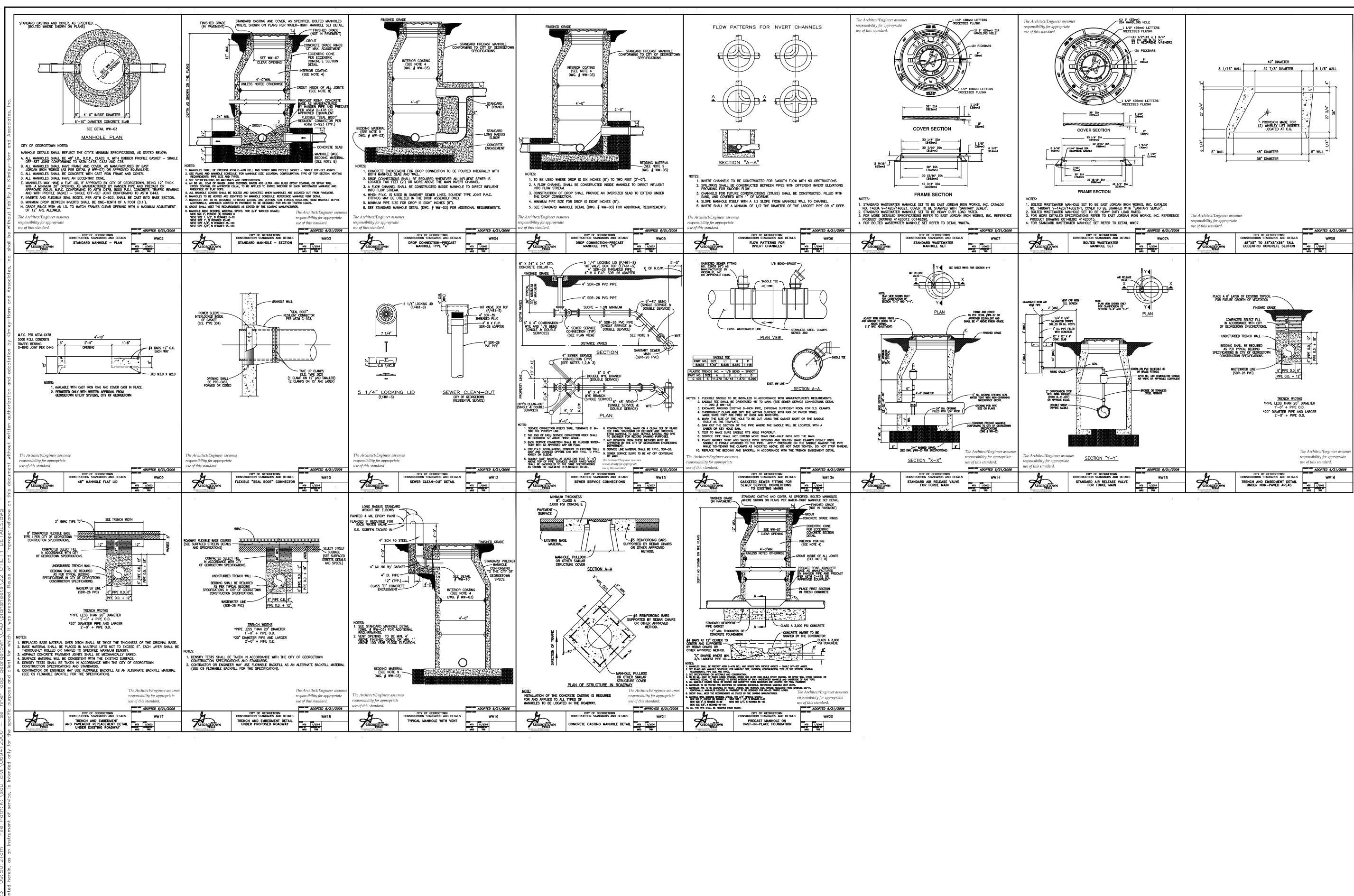


d By: Stokes, Aidan Date: November 07, 2023 09: 49: 52am File Path: K: \sau_civil\069412900 — se inner loop georgetown\CAD\plansheets\21 STORM DRAIN DETAILS.c

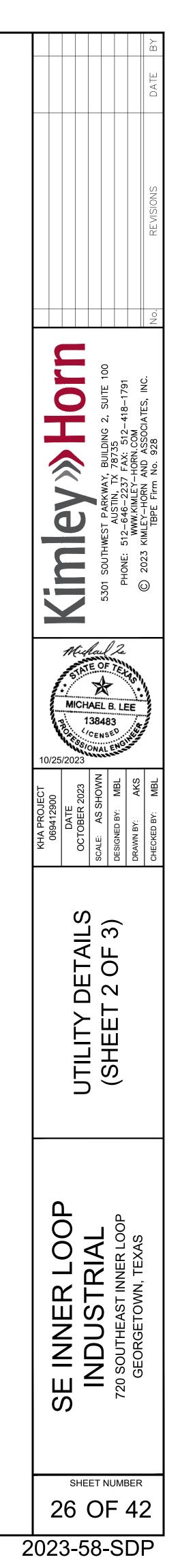
					DATE BY
					REVISIONS
					No.
		5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100	AUSTIN, TX 78735 PHONE: 512–646–2237 FAX: 512–418–1791	© 2023 VIM EV HORN.COM	TBPE Firm No. 928
10/25 10/25	/2023	3848 CENS	MBL Na	AKS	MBL
KHA PROJECT 069412900	DATE OCTOBER 2023	SCALE: AS SHOWN	DESIGNED BY:	DRAWN BY:	CHECKED BY:
		STORM DRAIN DETAILS			
		INDUS I RIAL	720 SOUTHEAST INNER LOOP	GEORGETOWN, TEXAS	
202		ЭF	= ,	42	

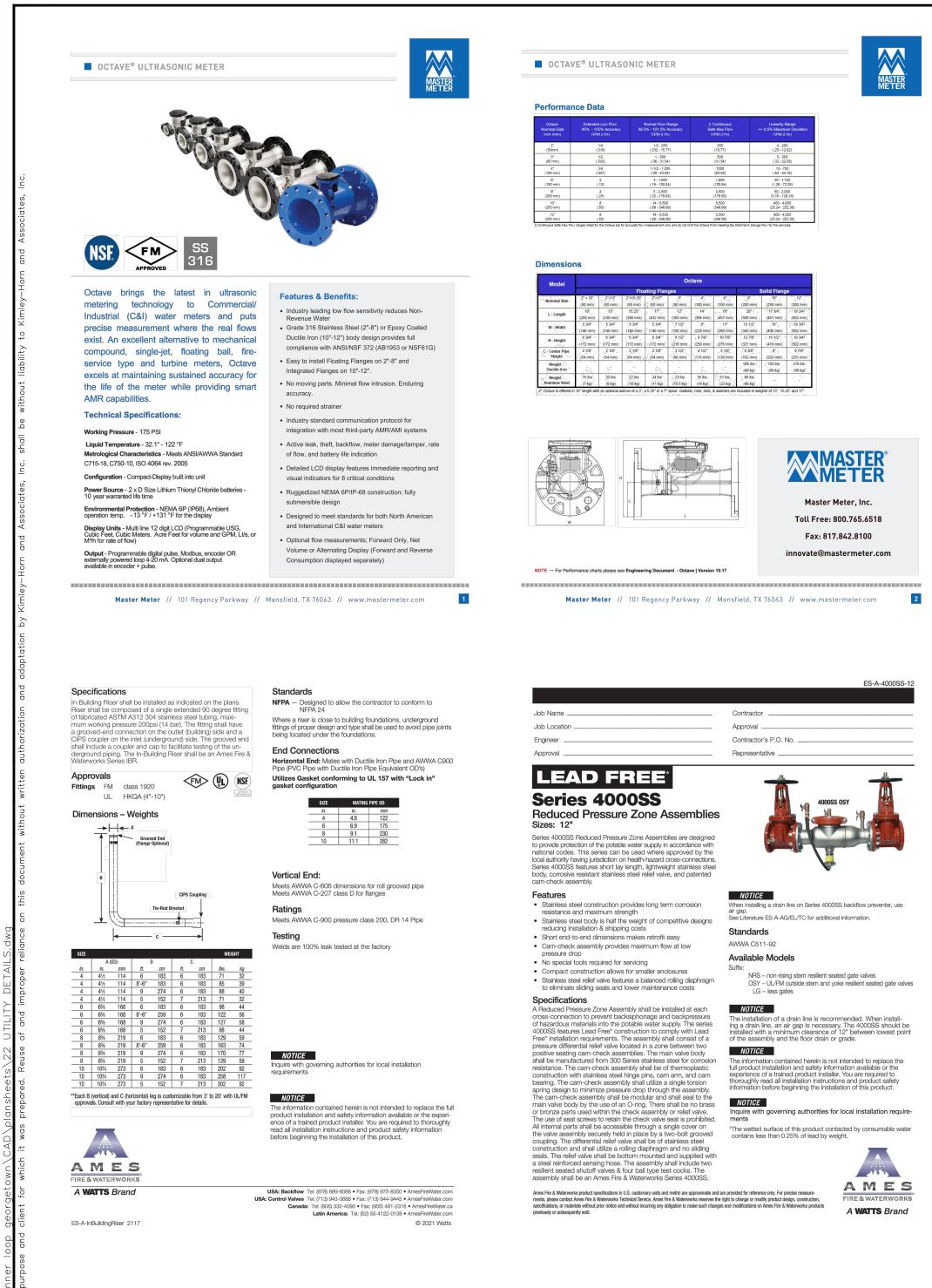


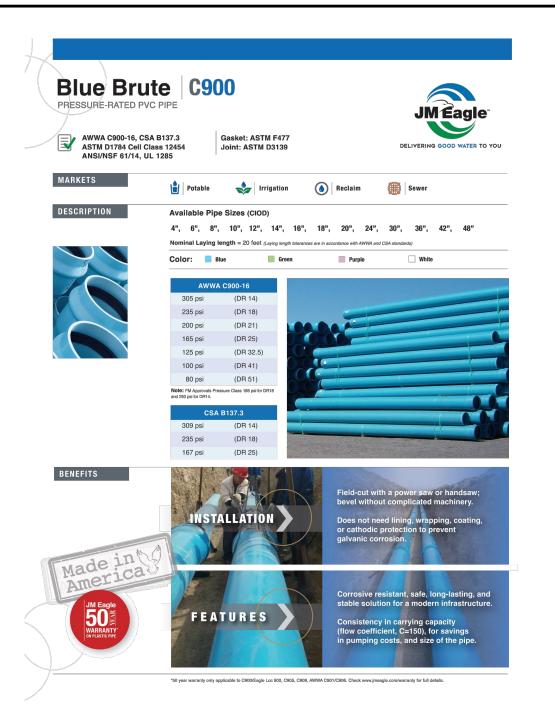










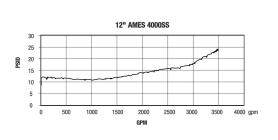


Blu	Je	Br	ute	e	C9	00											Engineering	Specification
PRES	SURE-R	ATED	PVC F	PIPE										Eag			Job Name	Contractor
													JIVI	Eay	lie		Job Location	Approval
CLIDI					исст												Engineer	Contractor's P.O. No.
300	ATTIN		JDA	IA 3	HEET							DELI	VERING G	BOOD WAT	ER TO YOU		Approval	Representative
PIPE SIZE (IN)	AVERAGE O.D	D. NOM. I.D. (IN)	MIN. T. (IN)	APPROX. E	E, APPROX. E	APPROX. D ¹ (IN)	APPROX. WGT (LBS/FT)	PIPE SIZE AV	ERAGE O.D. (IN)	NOM. I.D.	MIN. T. (IN)	APPROX. E	APPROX. E	APPROX. D	APPROX. WGT (LBS/FT)		LEAD FREE [*]	
		P	RESSURE C PIPE ST	LASS 305 pe FFNES3: 815	i (DR 14) psi					P	RESSURE CI PIPE ST	LASS 100 psi IFFNESS: 28 p	i (DR 41) si					
4	4.80 6.90	4.07	0.343	4.5 5.25	5.5 6.25	6.365 8.887	3.2 6.7	14 16	15.30 17.40	14.52 16.51	0.373	6.5 7.25	8 8.75	17.599 19.992	12.01 15.63		Series IBR	
8	9.05	7.68	0.646	6.25	7.25	11.499	11.6	18 20	19.50 21.60	18.50 20.49	0.476	7.75	9.25 10.25	22.555 24.691	19.72 24.31		In-Building Risers Customizable	
10	13.20	9.42	0.793	8.25	9.25	16.57	25.1	24	25.80	20.49	0.629	9.75	11.25	29.397	35.10		Sizes: 4" – 10"	
16	17.40 25.80	14.85 21.89	1.242	7.25	8.75 11.25	21.637 31.958	43.77 98.33	30 36	32.00 38.30	30.35 36.30	0.780	11.5 13.25	13.5 15.25	36.163	54.65 78.97			
		P	RESSURE C	LASS 235 ps	si (DR 18)			42	44.50	42.18	1.085	15.5	17.5	50.108	108.19		Series IBR In-Building Risers are used to connect the main fire supply to the building overhead fire system. The fitting passes	
4	4.80	4.23	0.267	4.5	psi 5.5	6.204	2.6	48	50.80	48.14	1.239 RESSURE C	16.5 LASS 80 psi	18.5 (DR 51)*	56.736	142.10		under the foundation without joints and extends up through the	
6	6.90 9.05	6.09 7.98	0.383	5.25 6.25	6.25 7.25	8.654 11.195	5.3 9.2	30	32.00	30.67	PIPE ST 0.627	IFFNESS: 14 p 11.5	13.5	35.836	44.08		floor. Provided with installation tabs, the unit has a CIPS (Cast Iron Pipe Size) coupler for easy connection to the underground	
10	11.10	9.79	0.617	7.25	8.25	13.699	13.9	36	38.30	36.71	0.751	13.25	15.25	42.478	64.32		supply (AWWA C900 PVC and Ductile Iron Pipe) and industry	
12	13.20 15.30	11.65 13.50	0.733	8.25 6.5	9.25 8	16.125 18.603	19.7 26.75	42 48	44.50 50.80	42.65 49.69	0.872	15.5 16.5	17.5 18.5	49.652 56.217	88.10 115.79		standard grooved-end connection (AWWA C606) on the building	
16	17.40	15.35	0.967	7.25	8.75	21.135	34.86	Product St	andard: /	ANSI/AW	WA C900)-16					side for easy connection to the overhead fire sprinkler system. The IBR features Lead Free* construction to comply with Lead	(cust
18 20	19.50 21.60	17.20 19.06	1.083	7.75 8.75	9.25 10.25	23.832 26.107	48.95 54.22	CSA B137.3	8* (DR 18	, 25, 4"-	18"; DR 1	4, 4"-12"					Free* installation requirements.	
24	25.80 32.00	22.76 28.23	1.433	9.75 11.5	11.25 13.5	31.089 38.264	77.97 117.82	Pipe Comp Gasket: AS			84 Cell C	lass 1245	54				Ames In-Building Risers are precision engineered and manu-	10000
30	32.00		ESSURE CI	ASS 200 psi	i (DR 21)°	38.204	117.02	Integral Be			3139						factured to provide exceptional reliability and reduce installation time & labor costs associated with field assembly. In accordance	
14	15,30	13.75	PIPE ST 0,729	FFNE88: 224 6.5	psi 8	18.347	23.07	Certificatio							D / 07 01		with NFPA 24, the UL/FM approved In-Building Risers replace	
16	17.40	15.64	0.829	7.25	8.75	20.097	30.04	UL 1285 (DR Note: FM App							B137.3*		numerous fittings, elbows & spools and reduces the possibility of	
18 20	19.50 21.60	17.53 19.42	0.929	7.75 8.75	9.25 10.25	23.505 25.744	37.27 46.71	Nominal La	ying Ler	ngth: 20	feet						leaks or failure in comparison to traditional installation methods and materials. Factory tested integrity ensures the highest quality	
24	25.80 32.00	23.19 28.77	1.229	9.75 11.5	11.25 13.5	30.656 37.725	67.53 103.71	(Laying leng						rds)			installation. The use of stainless steel significantly increases the	
36	38.30	34.43	1.824	13.25	15.25	44.753	152.16		-					(-) 450			reliability and life of the riser.	Building Floor
				LASS 105 psi FENESS: 129				Manning Co *Please call re				-willams	Coemcient	t (c) = 150			Features	
4	4.80	4.39	0.192	4.5	5.5	6.045	1.9		3	,							Cost savings	20000000000000000000000000000000000000
6	6.90 9.05	6.31 8.28	0.276	5.25 6.25	6.25 7.25	8.427 10.896	3.9 6.7					>					Corrosion resistant stainless steel	
10	11.10	10.16	0.444	7.25	8.25	13.332	10.1	D ⁹							-		construction, type 304	
12	13.20 15.30	12.08	0.528	8.25 6.5	9.25 8	15.69	14.4 19.48	u <u>u</u> 1		111 111	5	\sim					 Ease of installation and light weight allows one person to posi- 	
16	17.40	15.92	0.696	7.25	8.75	20.561	25.38	1		/			0.D		1.D.		tion and handle the riser	
18	19.50 21.60	17.85	0.780	7.75	9.25	23.19 25.395	31.99 39.46	т/	/	′ ₊		— E,—	0.0	• •	i.D.		 Minimal site preparation; joint restraint one-piece construc- tion reduces time and labor; no missing parts, no leaks; easily 	SH4
24	25.80	23.61	1.032	9.75	11.25	30.239	56.98	Assembly	Mark		E	2		· ·	,		identifiable for approvals	and and a
30 36	32.00 38.30	29.29 35.05	1.280	11.5 13.25	13.5 15.25	37.208 44.134	88.49 128.41		de D			- D'-*:	aa hotuu	an dat las	ation (Includes Test Cap and Coupler 	200a
42	44.50	40.73	1.780	15.5	17.5	51.56	176.02	I.D.: Insi O.D.: Out				Assen	nbly Mark	en 1st Inse to the end	of spigot.		UL/FM approved	
48*	50.80	46.49 P	2.032 RESSURE CL	16.5 ASS 125 psi (18.5 DR 32.6)*	58.393	231.22		II Thickne		E	: Distan	ce betwee	en 2nd Inse	ertion/		 Sizes: available in 4" – 10" with various lengths to meet local requirements 	
	15.30	14.30	PIPE ST 0.471	6.5	poi 8	17,799	15,14	D ⁹ : Bel	I Outside	Diamet				to the end			Designed to meet NFPA 24	*The wetted surface of this
16	17.40	16.27	0.535	7.25	8.75	20.219	19.63										AWWA C900 Inlet/DIP	contains less than 0.25% o
18	19.50 21.60	18.23	0.600	7.75	9.25 10.25	22.808	24.75 30.54				~	-					AWWA C606 Outlet	
24	25.80	24.12	0.794	9.75	11.25	29.734	44.11	FM>	4	P (NSE) ==	(U)	AN.	SP		\sim		
30	32.00 38.30	29.91 35.80	0.985	11.5 13.25	13.5 15.25	36.582 43.383	68.45 99.22	APPROVED	ASTRONOM	ATCHIN,	\sim	LISTED	1		- COMPLEY	}		
48	50.80	47.49	1.563	16.5	18.5	57.399	178.49								Ĺ	大	Arnes Fire & Waterworks product specifications in U.S. customary units and metric are approximate and ments, please contact Arnes Fire & Waterworks Technical Service. Arnes Fire & Waterworks reserves the	right to change or modify product design, cons
					jmeagle.com	for all updated	information and	warranty details.				CUS	STOMER S		800.621.4404		specifications, or materials without prior notice and without incurring any obligation to make such chang previously or subsequently sold.	as and modifications on Ames Fire & Waterwork
THIS PRO	DDUCT IS	MADE IN	AMERIC	A										PRINTED	JUNE 2018 REV21			

Materials All internal metal parts: 300 Series stainless steel

Main valve body: 300 Series stainless steel Check assembly: Noryl® Flange dimension in accordance with AWWA Class D Capacity

Documented flow characteristics (including shutoff valves). Pressure – Temperature Temperature Range: 33°F – 110°F (0.5°C – 43°C) Maximum Working Pressure: 175 psi (12.1 bar)





Dimensions – Weights Note: Strainer sold separately SIZE DIMENSIONS NET WEIGHT

 in.
 mm
 in.
 Noryl[®] is a registered trademark of General Electric Company



ES-A-4000SS-12 1906

USA: Backflow Tel: (978) 689-6066 • Fax: (978) 975-8350 • AmesFireWater.com USA: Control Valves Tel: (713) 943-0688 • Fax: (713) 944-9445 • AmeeFireWater.com Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • AmeeFireWater.ca Latin America: Tel: (52) 81-1001-8600 • AmeeFireWater.com © 2019 Ames Fire & Waterworks-12

Engineering	Specification
Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No
Approval	Representative
LEAD FREE [*]	
Series IBR	
n-Building Risers Customizable	
Sizes: 4" – 10"	TEST CAP
eries IBR In-Building Risers are used to connect the main fire upply to the building overhead fire system. The fitting passes nder the foundation without joints and extends up through the cor. Provided with installation tabs, the unit has a CIPS (Cast on Pipe Size) coupler for easy connection to the underground upply (AWWA C900 PVC and Ductle Iron Pipe) and industry tandard grooved-end connection (AWWA C606) on the building ide for easy connection to the overhead fire sprinkler system. he IBR features Lead Free* construction to comply with Lead ree* installation requirements.	6'x6' standard length (custom lengths from 3' – 20' available)
mes In-Building Risers are precision engineered and manu- actured to provide exceptional reliability and reduce installation me & labor costs associated with field assembly. In accordance ith NFPA 24, the UL/FM approved In-Building Risers replace umerous fittings, elbows & spools and reduces the possibility of aks or failure in comparison to traditional installation methods and materials. Factory tested integrity ensures the highest quality istallation. The use of stainless steel significantly increases the biability and life of the riser.	Building Floor
Features	
Cost savings	
Corrosion resistant stainless steel construction, type 304	E C
Ease of installation and light weight allows one person to posi- tion and handle the riser	
Minimal site preparation; joint restraint one-piece construc- tion reduces time and labor; no missing parts, no leaks; easily identifiable for approvals	non to the second seco
Includes Test Cap and Coupler	Q60∞01
UL/FM approved	
Sizes: available in 4" - 10" with various lengths to meet local requirements	
Designed to meet NFPA 24	*The wetted surface of this product contacted by consumable wat
AWWA C900 Inlet/DIP	contains less than 0.25% of lead by weight.

21155

AMES

FIRE & WATERWORK A WATTS Brand

DATE BY
REVISIONS
Kimley Horn 5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100 AUSTIN, TX 78735 PHONE: 512–646–2237 FAX: 512–418–1791 WWW.KIMLEY-HORN.COM © 2023 KIMLEY-HORN AND ASSOCIATES, INC. TBPE Firm No. 928
Michael 2 Michael 2 Michael B. LEE 138483 ^{(c} enseo 10/25/2023
KHA PROJECT 069412900 DATE OCTOBER 2023 SCALE: AS SHOWN SCALE: AS SHOWN DESIGNED BY: MBL DRAWN BY: AKS CHECKED BY: MBL
UTILITY DETAILS (SHEET 3 OF 3)
SE INNER LOOP INDUSTRIAL 720 SOUTHEAST INNER LOOP GEORGETOWN, TEXAS
SHEET NUMBER 27 OF 42 2023-58-SDP

