WATER POLLUTION ABATEMENT PLAN MODIFICATION

CLASSEN STEUBING RANCH PARK SAN ANTONIO BEXAR COUNTY, TEXAS

Prepared For:

CITY OF SAN ANTONIO - PUBLIC WORKS DEPARTMENT

114 West Commerce Street, Suite 404 San Antonio, TX 78205 (210) 207 - 8022

Prepared By:

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Firm No. 928 KHA Project No. 068710058 JASON R. LINK

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02/04/2025

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Kimley»Horn

SECTION 1: EDWARDS AQUIFER APPLICATION COVER PAGE

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

- 1. <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: http://www.tceq.texas.gov/field/eapp.
- 2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
- 3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
- 4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.
 - An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.
- 5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
- 6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

- 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: | | | 2. Regulated Entity No.: | | | | | | |
|---|---------|---------------------------------|--------------------------|------------------------|------------------|-----------|------------|----------------------------|-------------------------------|
| 3. Customer Name: | | | | | 4. Customer No.: | | er No.: | | |
| 5. Project Type: (Please circle/check one) | New | lew Modification Extension Exce | | 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) | Resider | ntial | Non-residentia | | | 8. Sit | e (acres): | | |
| 9. Application Fee: | | | 10. Permanent B | | | BMP(s | s): | | |
| 11. SCS (Linear Ft.): | | | 12. AST/UST (No. | | | o. Tar | ıks): | | |
| 13. County: | | | 14. Watershed: | | | | | | |

Application Distribution

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

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

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

| Austin Region | | | | | | | |
|---|--|---|--|--|--|--|--|
| County: | Hays | Travis | Williamson | | | | |
| Original (1 req.) | | | _ | | | | |
| Region (1 req.) | _ | _ | | | | | |
| County(ies) | | _ | | | | | |
| Groundwater Conservation District(s) | Edwards Aquifer AuthorityBarton Springs/ Edwards AquiferHays TrinityPlum Creek | Barton Springs/ Edwards Aquifer | NA | | | | |
| City(ies) Jurisdiction | AustinBudaDripping SpringsKyleMountain CitySan MarcosWimberleyWoodcreek | AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills | AustinCedar ParkFlorenceGeorgetownJerrellLeanderLiberty HillPflugervilleRound 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 HillsFair Oaks RanchHelotesHill Country VillageHollywood ParkSan Antonio (SAWS)Shavano Park | Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz | NA | San Antonio ETJ (SAWS) | NA | | |

| I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. | | |
|---|--|--|
| | | |
| | | |
| | | |
| Tuch 1 | | |
| 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): | Payable to TCEQ (Y/N): | | | | |
| Core Data Form Complete (Y/N): | Check: Signed (Y/N): | | | | |
| Core Data Form Incomplete Nos.: | Less than 90 days old (Y/N): | | | | |

SECTION 2: GENERAL INFORMATION FORM COVER PAGE

General Information Form

Texas Commission on Environmental Quality

Print Name of Customer/Agent: _____

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:

| Date: | |
|---|-----------------------|
| Signature of Customer/Agent: | |
| July 1 | |
| Project Information | |
| Regulated Entity Name: | |
| 2. County: | |
| 3. Stream Basin: | |
| 4. Groundwater Conservation District (If applicable): | |
| 5. Edwards Aquifer Zone: | |
| Recharge Zone Transition Zone | |
| 6. Plan Type: | |
| WPAP | AST |
| SCS Modification | UST Exception Request |

| /. | 7. Customer (Applicant): | |
|-----|--|----------------------|
| | Contact Person: Entity: Mailing Address: City, State: Telephone: Email Address: | |
| 8. | 8. Agent/Representative (If any): | |
| | Contact Person: Entity: Mailing Address: City, State: Zip: Telephone: FAX: Email Address: | |
| 9. | 9. Project Location: | |
| | The project site is located inside the city limits of The project site is located outside the city limits but inside the ETJ (extigurisdiction) of The project site is not located within any city's limits or ETJ. | ra-territorial |
| 10. | 10. The location of the project site is described below. The description prodetail and clarity so that the TCEQ's Regional staff can easily locate the boundaries for a field investigation. | |
| 11. | 11. Attachment A – Road Map. A road map showing directions to and the project site is attached. The project location and site boundaries are cl the map. | |
| 12. | 12. Attachment B - USGS / Edwards Recharge Zone Map. A copy of the of USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zon The map(s) clearly show: | |
| | Project site boundaries. USGS Quadrangle Name(s). Boundaries of the Recharge Zone (and Transition Zone, if applicable Drainage path from the project site to the boundary of the Recharge | • |
| 13. | 13. The TCEQ must be able to inspect the project site or the application verificient survey staking is provided on the project to allow TCEQ region the boundaries and alignment of the regulated activities and the geological features noted in the Geologic Assessment. | onal staff to locate |
| | Survey staking will be completed by this date: | |

| nar | rachment C – Project Description. Attached at the end of this form is a detailed rative description of the proposed project. The project description is consistent oughout 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 | g 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: |
| Prohib | ited Activities |
| | n aware that the following activities are prohibited on the Recharge Zone and are not posed 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. |
| | m aware that the following activities are prohibited on the Transition Zone and are t 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 |

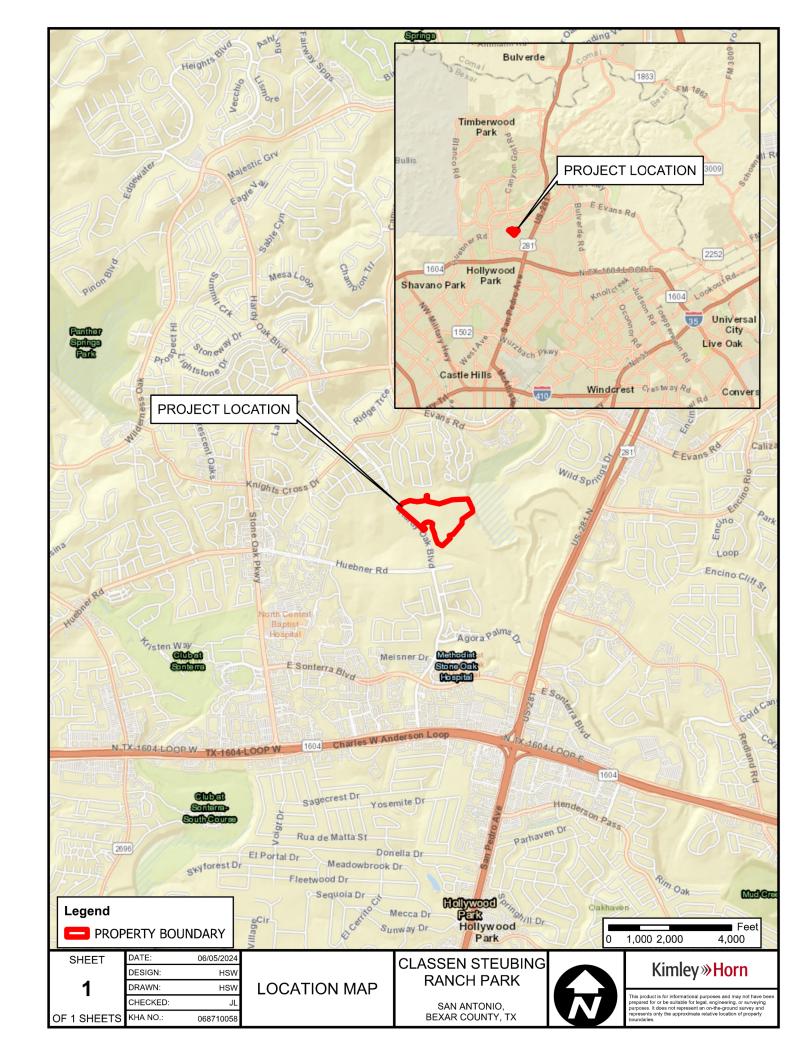
(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

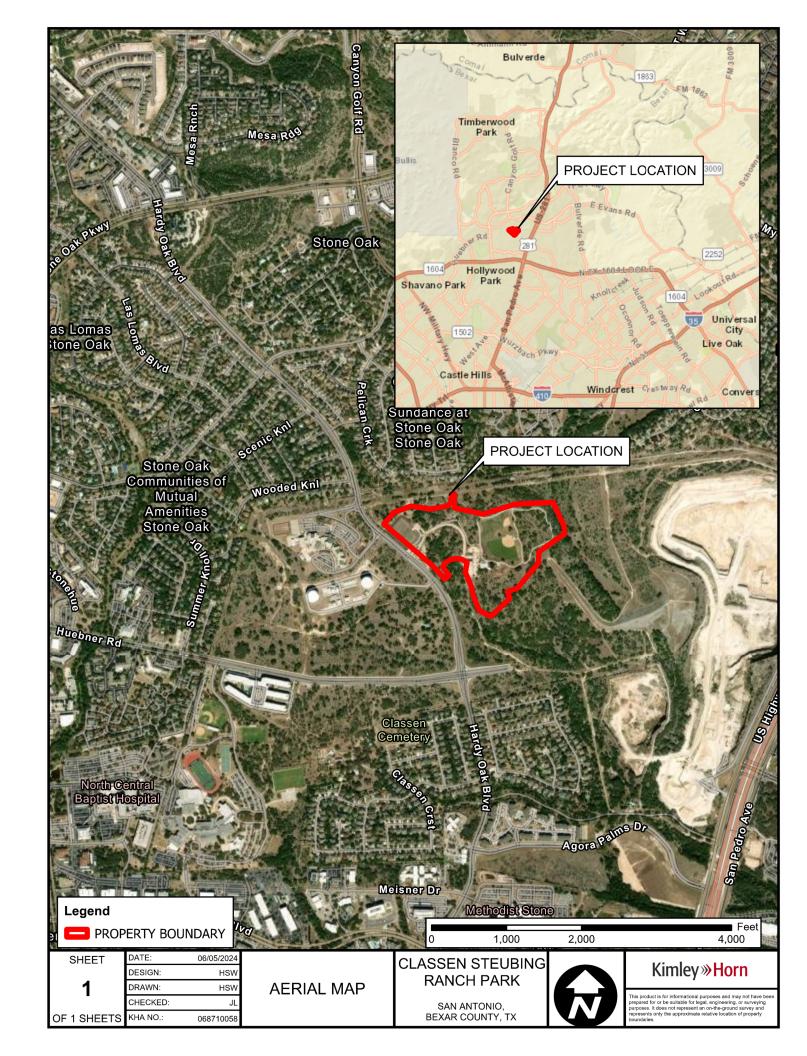
Administrative Information

| 18. The | e 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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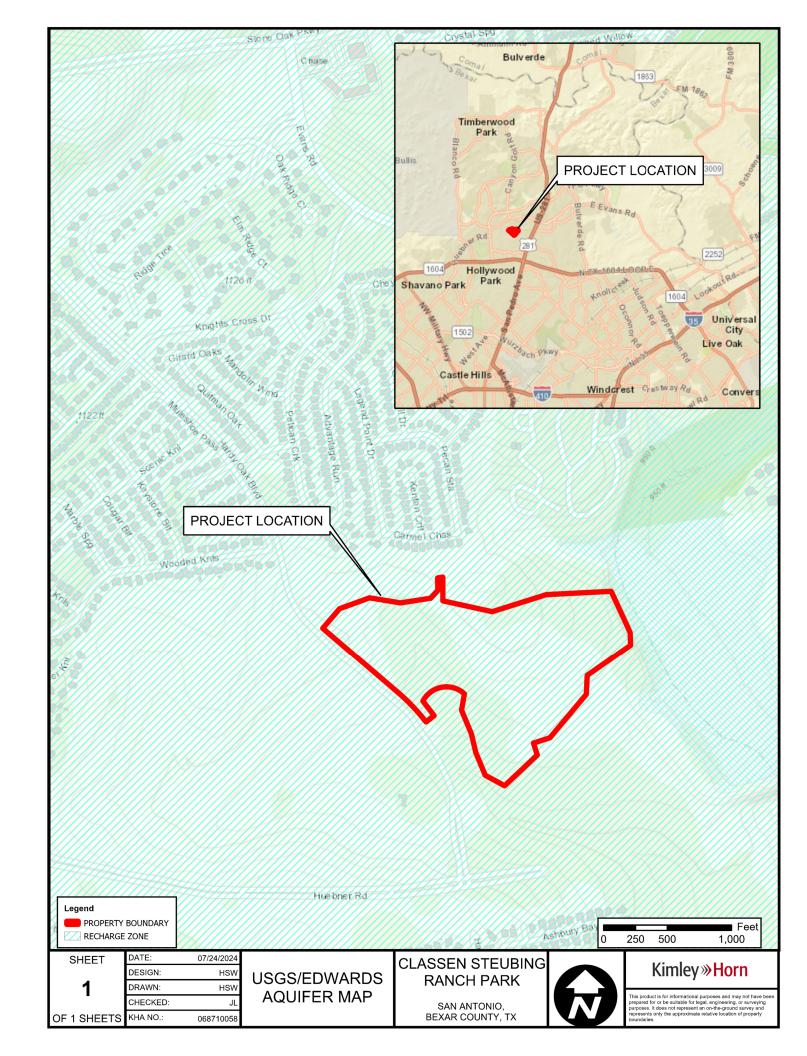
ATTACHMENT A - ROAD MAP





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ATTACHEMENT B - USGS QUADRANGLE MAP/EDWARDS RECHARGE ZONE MAP





ATTACHMENT C - PROJECT DESCRIPTION

Introduction

The subject site is a recreational city park, vacant lot (approximately 4.15 acres disturbed) located to the northeast of the intersection of Hardy Oak Blvd. and Huebner Rd, within the city of San Antonio, Bexar County, TX.

The subject property will three parking lots, pavement and driveways, utility connections, water quality, landscape, and other site improvements.

No portion of the site is located in the Federal Emergency Management Agency's 100-year floodplain according to FIRM 48029C0140G dated September 29, 2010. The site is located within the Edwards Aquifer Recharge Zone according to TCEQ Edwards Aquifer Map.

Current Tract Conditions

Legal Description

The legal description of the overall tract this project is contained within is a 43.97 acre tract of land, out of the A Houston Survey No. 94, Abstract No. 356, Bexar County, Texas, and a 11.839 acre tract, called Tract 5, a 2,818 acre tract, called Tract 6, a 17,389 acre tract, called Tract 9, a 3,472 acre tract, called Tract 10, a 1.803 acre tract, called Tract 11, a 1.391 acre tract, called Tract 12, as conveyed to the City of San Antonio of record in Document No. 20170162172 of the Official Public Records of Bexar County, Texas, also out of a 109,955 acre tract, called Tract 2, a 37,663 acre tract, called Tract 3, a 0.814 acre tract, called Tract 7, and a 2.585 acre tract, called Tract 8, as conveyed to the City of San Antonio of record in Document No. 20160208630 of the Official Public Records of Bexar County, Texas

Land Use

The existing site consists of recreational park. The lot is within city limits and zoned as MPCD, within San Antonio in Bexar County, Texas.

Existing Drainage Conditions

Under existing conditions, the flows of the current development are currently split into three drainage areas (DA-1, DA-2, and DA-R3), according to the current approved WPAP, all of which go into three water quality ponds that discharge into an existing dry stream bed that connects to San Antonio River Basin. The flow across the existing property is in sheet or shallow concentrated flow and varies in slopes from 1 percent to 20 percent. The site is within the Headwaters Salado Creek Watershed.

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SECTION 3: GEOLOGICAL ASSESSMENT



Environmental Services, Inc.

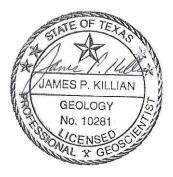
GEOLOGIC ASSESSMENT APPROXIMATELY 204.7-ACRE CLASSEN-STEUBING RANCH PARK TRACT HARDY OAK BOULEVARD SAN ANTONIO, BEXAR COUNTY, TEXAS HJN 180021 GA

PREPARED FOR:

CITY OF SAN ANTONIO SAN ANTONIO, TEXAS

PREPARED BY:

HORIZON ENVIRONMENTAL SERVICES, INC. TBPG FIRM REGISTRATION NO. 50488



APRIL 2018

204 ac Classen Steubing Ranch Park 180021 GA



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- I. GEOLOGIC ASSESSMENT FORM (TCEQ-0585)
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 - B STRATIGRAPHIC COLUMN
 - C DESCRIPTION OF SITE GEOLOGY
 - D SITE GEOLOGIC MAP
 - E SUPPORTING INFORMATION
 - F ADDITIONAL SITE MAPS
 - G SITE PHOTOGRAPHS

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

| 31 | ignatui c | |
|------|--|---|
| rec | uifer. My signature certifies that I am qualifi | this form accurately reflect all information activities and methods to protect the Edwards ed as a geologist as defined by 30 TAC Chapter |
| Pri | int Name of Geologist: <u>James Killian</u> | Telephone: <u>512 328-2430</u> |
| Da | ite: <u>6 April 2018</u> | Fax: <u>512 328-1804</u> |
| | presenting: <u>Horizon Environmental Services,</u> Impany and TBPG or TBPE registration numbe | Inc., TBPG Registered Firm No. 50488 (Name of er) |
| | gnature of Geologist: Geologist: Geology No. 10281 Amus Pullson Geology No. 10281 Aguilated Entity Name: 204-acre Classen-Steul | bing Ranch Park, Hardy Oak Boulevard, San |
| -1-7 | itonio, Bexar County, Texas | |
| P | roject Information | |
| 1. | Date(s) Geologic Assessment was performe | d: <u>25 January and 19 March 2018</u> |
| 2. | Type of Project: | |
| 3. | WPAPSCSLocation of Project: | ☐ AST ☐ UST |
| | | |

1 of 3

Contributing Zone within the Transition Zone

Recharge Zone
Transition Zone

- 4. Attachment A Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
- 5. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

| Soil Name | Group* | Thickness(feet) |
|--|--------|-----------------|
| Crawford and Bexar stony soils (Cb) | D | 2 to 3 |
| Tarrant association, rolling (5-15% slopes) (TaC) | С | 1 to 2 |
| Tarrant association, hilly (15-30% slopes) (TaD) | С | 1 to 2 |

| Soil Name | Group* | Thickness(feet) |
|-----------|--------|-----------------|
| | | |
| | | |

- * Soil Group Definitions (Abbreviated)
 - A. Soils having a high infiltration rate when thoroughly wetted.
 - B. Soils having a moderate infiltration rate when thoroughly wetted.
 - C. Soils having a slow infiltration rate when thoroughly wetted.
 - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. Attachment C Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale: 1" = 400' Site Geologic Map Scale: 1" = 400'

Site Soils Map Scale (if more than 1 soil type): 1" = 1000'

9. Method of collecting positional data:

| | | al Positioning System (GPS) technology. r method(s). Please describe method of data collection: |
|-----|--------------|---|
| 10. | . 🔀 The p | roject site and boundaries are clearly shown and labeled on the Site Geologic Map |
| 11. | . 🔀 Surfa | ce geologic units are shown and labeled on the Site Geologic Map. |
| 12. | inves | ogic or manmade features were discovered on the project site during the field tigation. They are shown and labeled on the Site Geologic Map and are described attached Geologic Assessment Table. |
| | | ogic or manmade features were not discovered on the project site during the field tigation. |
| 13. | . 🔀 The R | echarge Zone boundary is shown and labeled, if appropriate. |
| 14. | | n wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If e, the information must agree with Item No. 20 of the WPAP Application Section. |
| | labelo | e are 1 (#) wells present on the project site and the locations are shown and ed. (Check all of the following that apply.) he well is temporarily out of service and will be restored for use soon. he wells are not in use and will be properly abandoned. he wells are in use and comply with 16 TAC Chapter 76. e are no wells or test holes of any kind known to exist on the project site. |
| A | dminis | strative Information |
| 15. | need coun | nit one (1) original and one (1) copy of the application, plus additional copies as ed for each affected incorporated city, groundwater conservation district, and ty in which the project will be located. The TCEQ will distribute the additional es to these jurisdictions. The copies must be submitted to the appropriate regional es. |



ATTACHMENT A GEOLOGIC ASSESSMENT TABLE

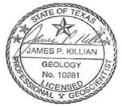
| GEOL | OGIC ASS | ESSMENT | ТАВ | LE | | | PRO | JEC | T N | ΑМЕ | : | 204-a | c Classen | -Steubing | Ranch | Park; | San / | Antonio | o, Bexa | ar Co.,Texas |
|------------|-----------|------------|-----------------|--------|-----------|------|------------|------|------------------------|-----|--------------------|---------------------|-----------|----------------------------------|-------|-------|---------------|---------|------------------|--------------|
| | LOCATIO | N | | | | | | | | | | | | | EVAI | LUAT | TION | PH | /SICA | L SETTING |
| 1A | 1B * | 1C* | 2A | 2B | 3 | | 4 | | 5 | 5A | 6 | 7 | 8A | 8B | 9 | 1 | 10 | , | 11 | 12 |
| FEATURE ID | LATITUDE | LONGITUDE | FEATURE TYPE | POINTS | FORMATION | DIMI | ENSIONS (F | EET) | TREND (DEGREE S) | DOM | DENSITY (NO/FT) | APERTUR E (FEET) | INFILL | RELATIVE INFILTRATION RATE | TOTAL | SENS | ITIVITY | | ENT AREA RES) | TOPOGRAPHY |
| | | | | | | Х | Υ | Z | | 10 | | | | | | <40 | <u>>40</u> | <1.6 | <u>>1.6</u> | |
| F-1 | 29.628639 | -98.477278 | SC | 20 | Kkd | 1.5 | 1 | 1.5 | | 0 | 0 | 0 | C,F,O | 8 | 28 | Χ | | Χ | | Drainage |
| F-2 | 29.63294 | -98.46868 | SC | 20 | Kkd | 1 | 0.5 | 3 | | 0 | 0 | 0 | C,F,O | 25 | 45 | | Χ | Χ | | Hillside |
| F-3 | 29.6311 | -98.47294 | SC | 20 | Kkd | 40 | 1.5 | 15 | | 0 | 0 | 0 | Ν | 5 | 25 | Х | | Χ | | Cliff |
| F-4 | 29.6309 | -98.4729 | SC | 20 | Kkd | 7 | 2 | 15 | N255 | 0 | 0 | 0 | Ν | 5 | 25 | Х | | Χ | | Cliff |
| F-5 | 29.62978 | -98.47217 | SC | 20 | Kkd | 60 | 0.75 | 10 | | 0 | 0 | 0 | Ν | 5 | 25 | Х | | Χ | | Cliff |
| F-6 | 29.62854 | -98.4708 | SW | 30 | Kkd | 0.5 | 0.5 | 3 | N30 | 10 | 0 | 0 | C,F,O | 50 | 90 | | Χ | | Х | Floodplain |
| F-7 | 29.62734 | -98.47216 | SH | 20 | Kkd | 15 | 15 | 8 | | 0 | 0 | 0 | C,F,O | 40 | 60 | | Χ | Χ | | Hillside |
| F-7A | 29.62733 | -98.47221 | SH | 20 | Kkd | 10 | 10 | 1 | | 0 | 0 | 0 | C,F,O | 30 | 50 | | Х | Х | | Hillside |
| F-8 | 29.625639 | -98.473306 | SC | 20 | Kkd | 1 | 0.5 | 3 | - | 0 | 0 | 0 | C,F,O | 25 | 45 | Х | | Х | | Hillside |
| F-9 | 29.630372 | -98.476878 | F | 20 | Kkd | 1500 | 50 | I | N45 | 10 | 0 | 0 | C,F,O | 7 | 37 | Х | | Χ | | Hillside |
| M-1 | 29.62769 | -98.47242 | MB | 30 | Kkd | 0.5 | 0.5 | I | | 0 | 0 | 0 | Χ | 5 | 35 | Х | | Χ | | Hillside |
| | | | | | | | | | | | | | | | | | | | | |
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| 2A TYPE | TYPE | 2B POINTS |
|---------|-------------------------------------|-----------|
| С | Cave | 30 |
| sc | Solution cavity | 20 |
| SF | Solution-enlarged fracture(s) | 20 |
| F | Fault | 20 |
| 0 | Other natural bedrock features | 5 |
| MB | Man-made feature in bedrock | 30 |
| SW | Swallow hole | 30 |
| SH | Sinkhole | 20 |
| CD | Non-karst closed depression | ţ |
| Z | Zone, clustered or aligned features | 30 |

| | 8A INFILLING |
|----|---|
| N | None, exposed bedrock |
| С | Coarse - cobbles, breakdown, sand, gravel |
| 0 | Loose or soft mud or soil, organics, leaves, sticks, dark colors |
| F | Fines, compacted clay-rich sediment, soil profile, gray or red colors |
| V | Vegetation. Give details in narrative description |
| FS | Flowstone, cements, cave deposits |
| Χ | Other materials: concrete/steel cased water well |

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



I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.

My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

| u P. /ulla | Date : 6 April 2018 |
|------------|----------------------------|
| us/i/alle | Sheet <u>1</u> of <u>1</u> |

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



ATTACHMENT B STRATIGRAPHIC COLUMN

| Geologic Unit | Geologic Member | Hydrologic Unit | Approx. Thickness at Project Site (ft) | | Elevation (ft msl) | Depth (ft) |
|--------------------|------------------------------------|--------------------|---|--|-----------------------|---------------------|
| | Grainstone (Kkg) | Edwards Aquifer | 65 | | 1046 981 | 65 |
| Edwards | Kirschberg Evaporite (Kkke) | Edwards Aquifer | 60 | | | |
| Group ' | Dolomitic Edwards (Kkd) Aquifer | | 130 | | 921 | 125 |
| | Basal Nodular (Kkbn) | Edwards Aquifer | 60 | | 791 | 255 |
| Glen Rose (Kgr) | Upper (Kgru) | Confining Unit | 400 | | 731 | 315 |
| | | | | | 331 | 715 |

Note: Unit elevation and thickness given with respect to a ground surface elevation of 1046 feet near the north east corner of the subject site.



| Date: | 03/27/2018 |
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Attachment B

Stratigraphic Column 204.7-Acre Classen-Steubing Ranch Park Tract Hardy Oak Boulevard San Antonio, Bexar County, Texas





ATTACHMENT C DESCRIPTION OF SITE GEOLOGY



Geologic information for the subject site obtained via literature review is provided in Attachment E, Supporting Information.

A geologic assessment of the approximately 204.7-acre Classen-Steubing Ranch Park Tract was conducted pursuant to Texas rules for regulated activities on the Edwards Aquifer Recharge Zone (EARZ) (30 TAC 213). The subject site consists of undeveloped rangeland located along the east side of Hardy Oak Boulevard in San Antonio, Bexar County, Texas. Assessment findings were used to develop recommendations for site construction measures intended to be protective of water resources at the subject site and adjacent areas.

The entire subject site is located within the EARZ, as defined by the Texas Commission on Environmental Quality (TCEQ). The EARZ occurs where surface water enters the subsurface through exposed limestone bedrock containing faults, fractures, sinkholes, and caves.

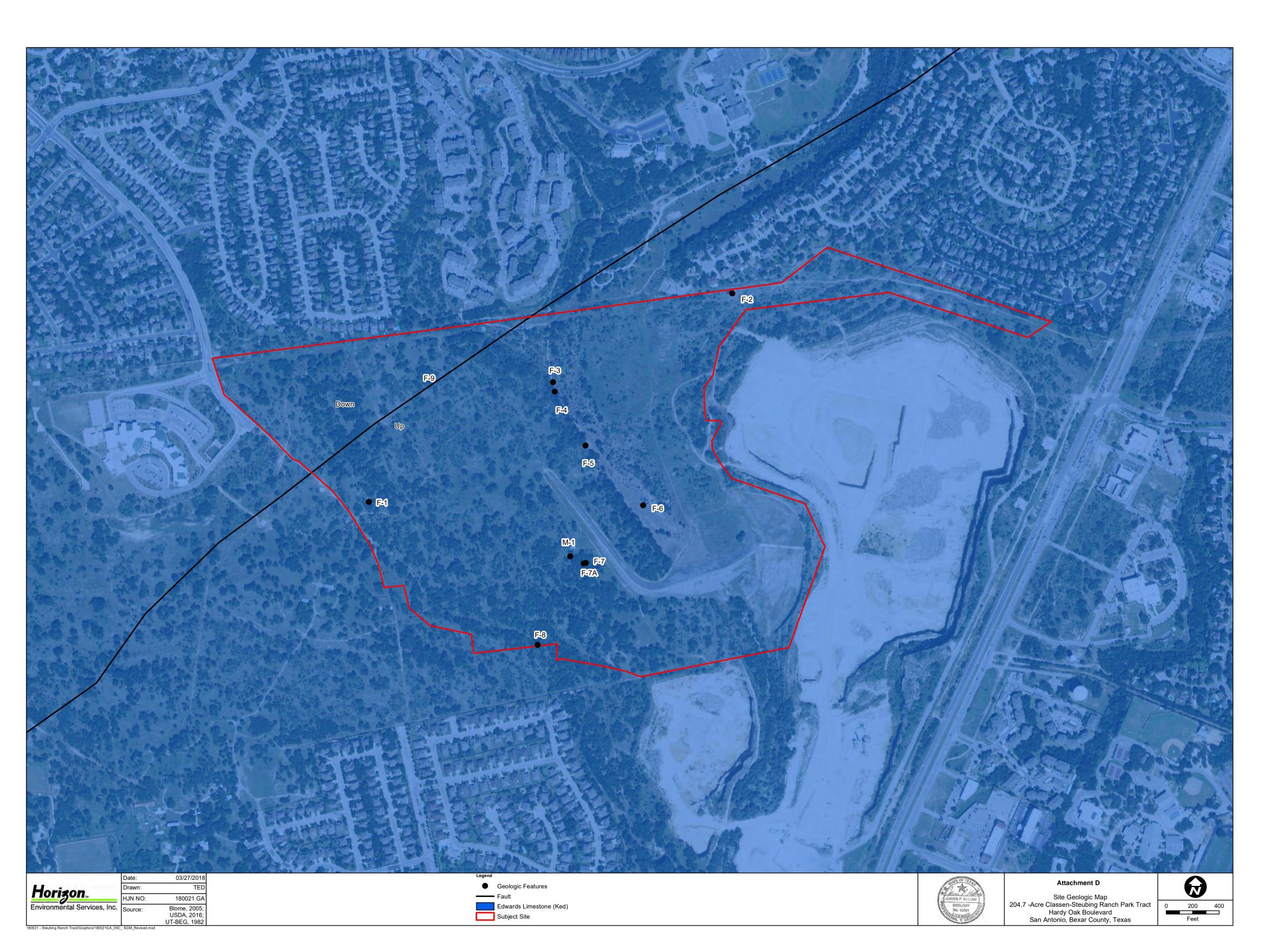
The subject site is predominantly underlain by the (undifferentiated) Edwards Limestone (UT-BEG, 1983). However, further examination of available mapping shows 3 geologic members of the Edwards Group–Kanier Formation (Grainstone [Kkg]), Kirschberg Evaporative [Kkke], and Dolomitic [Kkd]) at the subject site (Blome et al., 2005). The estimated maximum thickness of the Edwards Group–Kanier Formation is about 315 feet at higher elevations located near the northwestern portion of the subject site.

Ten natural geologic features (F-1 to F-7, F-7A, F-8, and F-9) and 1 man-made feature (M-1) were identified at the subject site. Further information pertaining to the geologic and man-made features is presented in Attachments D, E, and F. Photographs are presented in Attachment G.

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ATTACHMENT D SITE GEOLOGIC MAP





ATTACHMENT E SUPPORTING INFORMATION



1.0 INTRODUCTION AND METHODOLOGY

This report and any proposed abatement measures are intended to fulfill Texas Commission on Environmental Quality (TCEQ) reporting requirements (TCEQ, 2005). This geologic assessment includes a review of the subject site for potential aquifer recharge and documentation of general geologic characteristics for the subject site. Horizon Environmental Services, Inc. (Horizon) conducted the necessary field and literature studies according to TCEQ Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (TCEQ, 2004).

Horizon walked transects spaced less than 50 feet apart, mapped the locations of features using a sub-foot accurate Trimble Geo HX handheld GPS, and posted processed data utilizing GPS Pathfinder Office software, topographic maps, and aerial photographs. Horizon also searched the area around any potential recharge features encountered to look for additional features. When necessary, Horizon removed loose rocks and soil (by hand) to preliminarily assess each feature's subsurface extent while walking transects. However, labor-intensive excavation was not conducted during this assessment. Features that did not meet the TCEQ definition of a potential recharge feature (per TCEQ, 2004), such as surface weathering, karren, or animal burrows, were evaluated in the field and omitted from this report.

The results of this survey do not preclude the possibility of encountering subsurface voids or abandoned test or water wells during the clearing or construction phases of the proposed project. If a subsurface void is encountered during any phase of the project, work should be halted until the TCEQ (or appropriate agency) is contacted and a geologist can investigate the feature.

2.0 ENVIRONMENTAL SETTING

2.1 LOCATION AND GENERAL DESCRIPTION

The subject site consists of approximately 204.7 acres of undeveloped rangeland located along the east side of Hardy Oak Boulevard in San Antonio, Bexar County, Texas (Attachment F, Figure 1).

2.2 LAND USE

Most of the subject site is currently vacant, with no apparent use. Improvements on the subject site include unimproved roads and a large flood retention basin operated by the San Antonio River Authority (SARA) near the southeastern portion of the site. Surrounding lands are generally used for single-family residential, public education (Los Lomas Elementary School), and commercial retail purposes. A large active limestone quarry is located along the eastern site boundary.

2.3 TOPOGRAPHY AND SURFACE WATER

The subject site is situated on gently to moderately sloping terrain that is located within the Mud Creek watershed (Attachment F, Figures 2 and 3). Surface elevations on the subject site

180021 GA E-1



vary from a minimum of approximately 932 feet above mean sea level (amsl) within Mud Creek at the southern site boundary to a maximum of approximately 1046 feet amsl near the far northeastern site corner (USGS, 1988). Surface drainage occurs primarily by overland sheet flow in multiple directions depending on proximity to Mud Creek and its tributaries, and/or hilltops located throughout the subject site. Mud Creek bisects the subject site and is impounded by a large earthen and rock dam as part of a flood retention basin operated by SARA.

2.4 EDWARDS AQUIFER ZONE

The entire subject site is located within the Edwards Aquifer Recharge Zone (EARZ) (TCEQ, 2017) (Attachment F, Figure 2). The Recharge Zone is described as an area where the stratigraphic units constituting the Edwards Aquifer crop out, including the outcrops of other geologic formations in proximity to the Edwards Aquifer, where caves, sinkholes, faults, fractures, or other permeable features would create a potential for recharge of surface waters into the Edwards Aquifer.

2.5 SURFACE SOILS

Three soil units are mapped within the subject site (NRCS, 2018) (Attachment F, Figure 4) and are described in further detail below.

Crawford and Bexar stony soils (Cb): Crawford soils make up about 51% of the acreage. About 90% of this consists of soils that are stony clay in texture and are shallow to moderately deep over hard limestone. The surface layer is very dark gray to dark reddish-brown, non-calcareous clay and is 8 or 9 inches thick. From 10 to 40% of this layer consists of chert and limestone fragments. These fragments, which are on the surface and in the surface layer, range from 0.25 inches to 24 inches in diameter. The subsurface layer generally contains a few chert fragments or small flags of cherty limestone. Bexar soils make up 36% of the acreage. The surface layer of these soils ranges from cherty clay loam to gravelly loam in texture and from 14 to 22 inches in thickness. The subsoil is cherty clay and ranges from 6 to 14 inches in thickness. Included in the areas mapped are small tracts of Tarrant soils and a soil that is similar to Bexar soils except that it is very shallow. These inclusions make up 13% of the acreage.

Tarrant association, rolling (5 to 15% slopes) (TaC): This association occurs in the northern 1/3 of the county. The slopes are complex, strongly convex or rounded, and fairly smooth. The gradient is as much as 20% in places but is typically about 10%. There are many draws and a few deep canyons. This association has fewer pockets of deeper soils than Tarrant association, gently undulating, and is typically more stony. About 5% of the county is in this association. Tarrant soils make up about 90% of this association. These soils are dark colored, very shallow, clayey, and weakly calcareous. They developed over hard limestone and have scattered stones, gravel, channery fragments, cobblestones, and flagstones on the surface and within the surface layer. Included in the areas mapped are small tracts of Tarrant association, gently undulating; Krum complex; and/or Crawford and Bexar stony soils.

Tarrant association, hilly (15 to 30% slopes) (TaD): This association occurs as ridgetops and hilly to steep slopes in the northern 1/3 of the county. In some small areas, outcrops

180021 GA E-2



of hard limestone form steep escarpments, and there are also draws and deep canyons. Included in the areas mapped are small tracts of Tarrant association, rolling; Brackett soils, 12 to 30% slopes; and Krum complex. This association consists mostly of Tarrant soils. Outcrops of bedrock make up about 15 to 20% of the association.

2.6 WATER WELLS

A review of TCEQ and Texas Water Development Board (TWDB) records revealed no water wells on the subject site and 11 wells within 0.5 miles of the subject site (TCEQ, 2018; TWDB, 2018). Most of the off-site wells are reportedly competed in the Edwards Aquifer at total depths ranging from 290 feet to 370 feet below the surface. Some of the wells are reportedly completed in the Trinity Aquifer at total depths ranging from 300 to 420 feet below the surface. During the field investigation, 1 private water well (M-1) was observed at the subject site and was noted to be temporarily out of order. The well was properly constructed with cemented surface (steel) casing.

The results of this assessment do not preclude the existence of additional undocumented or abandoned wells on the site. If a water well or casing is encountered during construction, work should be halted near the object until the TCEQ is contacted. If any on-site wells are not intended for future use, they should be capped or properly abandoned according to the Administrative Rules of the Texas Department of Licensing and Regulation (TDLR), 16 Texas Administrative Code (TAC), Chapter 76. A plugging report must be submitted by a licensed water well driller to the TDLR Water Well Driller's Program, Austin, Texas. TCEQ publication RG-347, "Landowner's Guide to Plugging Abandoned Water Wells," provides specific guidance. If a well is intended for use, it must comply with 16 TAC §76.

2.7 GEOLOGY

Literature Review

A review of existing literature shows the subject site is primarily underlain by the (undifferentiated) Edwards Limestone (UT-BEG, 1983). However, further examination of available mapping shows 3 geologic members of the Edwards Group–Kanier Formation (Grainstone [Kkg]), Kirschberg Evaporative [Kkke], and Dolomitic [Kkd]) at the subject site (Blome et al., 2005). Additionally, there are no mapped faults indicated on the subject site according to the UT-BEG map. However, the USGS (Blome) map shows a fault (F-9) bisecting the northwestern portion of the subject site with a northeast/southwest orientation. The USGS (Blome) geologic map shows the Dolomitic member outcropping throughout most of the subject site to the south of the fault. However, mapping (Blome) shows the Kirschberg Evaporate and Grainstone members cropping out north of the fault in the northwestern portion of the subject site. The estimated maximum thickness of the Edwards Group–Kanier Formation is about 315 feet at higher elevations located north of the fault in the northwestern portion of the subject site. In general, the rock strata beneath the site dip to the east-southeast at about 10 to 30 feet per mile.

At the top of the Edwards Group–Kanier Formation is the Grainstone member, a white, chert-bearing, miliolid grainstone and mudstone to wackestone. Crossbedding and ripple marks

180021 GA E-3



are present and cavern development is rare to nonexistent throughout. This member is classified as having nonfabric-selective porosity and low permeability due to recrystallization. Thickness ranges from 50 to 60 feet. Underlying the Grainstone is the Kirschberg Evaporite member, a highly altered crystalline limestone, chalky mudstone, and chert; fossils are uncommon. It is identified by boxwork voids with neospar and travertine framing. Extensive cavern development throughout makes it one of the most porous (majority fabric-selective) and permeable members of the Edwards Aquifer. Thickness ranges from 50 to 60 feet. Beneath the Kirschberg is the Dolomitic member, a mudstone to grainstone and chert-bearing, crystalline limestone. This massive-bedded member weathers light gray in outcrop and has abundant fossils (*Toucasia*). Cavern development is directly related to faults, fractures, and bedding planes. It has nonfabric-selective porosity except where solutioning along bedding planes yields water. Thickness ranges from 110 to 140 feet (Blome et al., 2005).

The subject site is located within the Balcones Fault Zone and available geologic reports indicate the immediate area has been affected by geologically inactive, normal faulting. A normal fault is an inclined fault in which the hanging wall appears to have slipped downward relative to the footwall. Approximately 1 mapped fault (previously discussed, F-9) bisects the northwestern portion of the subject site, striking N45°E (Blome, et al., 2005). The site Stratigraphic Column is provided as Attachment B, and the Site Geologic Map is Attachment D.

Field Assessment

A field survey of the subject site was conducted by a licensed Horizon geologist and support staff on 25 January and 19 March 2018. Horizon identified an approximate total of 10 natural geologic features (F-1 to F-7, F-7A, F-8, and F-9) and 1 man-made feature (water well M-1, previously discussed) at the subject site that meet the TCEQ definition of a potential recharge feature. Geologic features identified on the subject site are described as follows:

Geologic Feature F-1: Solution cavity measuring approximately 1.5 feet long by 1 foot wide by 1.5 feet deep with no apparent drainage portal openings among infilled soil and cobbles at depth. No air flow conductivity was noted. After limited hand excavation, probing with a steel rod encountered firmly packed soil and/or cobbles about 2 feet below the surface. This feature has a very low infiltration rate and an apparent surface runoff catchment of less than 0.1 acres. Due to the feature's small size, proximity to the surface, lack of sufficient air flow, and infilling of soil and/or rock, it is Horizon's opinion that F-1 does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-2: Solution cavity measuring approximately 1 foot long by 0.5 feet wide by 3 feet deep with small, semi-open drainage portal openings among infilled soil and cobbles at depth. Very slight air flow conductivity was noted. After limited hand excavation, probing with a steel rod encountered loose soil and/or cobbles about 3.5 feet below the surface. This feature has a low to intermediate infiltration rate and an apparent surface runoff catchment of less than 0.4 acres. Due to the feature's small size, proximity to the surface, lack of sufficient air flow, and infilling of soil and/or rock, it is Horizon's opinion that F-2 does not provide suitable habitat for terrestrial karst invertebrates.



Geologic Feature F-3: Open solution cavities located along exposed bedding plane void within cliff face of Mud Creek measuring approximately 40 feet long by 1 to 1.5 feet high by 15 feet deep. Slight air flow conductivity was noted among the openings. However, this natural geologic feature is considered a relict discharge (spring) feature and has little, if any, infiltration (recharge) potential. In addition, no apparent groundwater discharge (seepage or active flow) was observed during the field survey. Because this feature is a (relict) spring that is capable of flooding during very wet conditions, it is Horizon's opinion that F-3 does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-4: Open solution cavity located along exposed bedding plane void within cliff face of Mud Creek measuring approximately 7 feet long by 2 feet high by 15 feet deep. Slight air flow conductivity was noted among the opening. A narrow rock joint fracture (azimuth: N255°W) was observed along the ceiling of the feature. However, this natural geologic feature is considered a relict discharge (spring) feature and has little, if any, infiltration (recharge) potential. In addition, no apparent groundwater discharge (seepage or active flow) was observed during the field survey. Because this feature is a (relict) spring that is capable of flooding during very wet conditions, it is Horizon's opinion that F-4 does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-5: Open solution cavities located along exposed bedding plane void within cliff face of Mud Creek measuring approximately 60 feet long by 0.5 feet to 1 foot high by 10 feet deep. Slight air flow conductivity was noted among the openings. However, this natural geologic feature is considered a relict discharge (spring) feature and has little, if any, infiltration (recharge) potential. In addition, no apparent groundwater discharge (seepage or active flow) was observed during the field survey. Because this feature is a (relict) spring that is capable of flooding during very wet conditions, it is Horizon's opinion that F-5 does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-6: Small, open swallet hole located within immediate floodplain of Mud Creek measuring approximately 0.5 feet in diameter by 3 feet deep. However, at approximately 1 foot below surface grade, the feature increases in overall size to about 2 feet long by 0.5 feet wide within a dominant, vertical rock joint fracture (azimuth: N30°E). Slight to moderate air flow conductivity was noted at the opening. After limited hand excavation, probing with a steel rod encountered loose rocks and cobbles about 4 feet below the surface. This feature has a very high infiltration rate and an apparent surface runoff catchment of greater than 1.6 acres. Because this feature is located within a floodplain that is capable of undergoing frequent severe flooding, it is Horizon's opinion that F-6 does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-7: Upland sinkhole measuring approximately 15 feet in diameter by 8 feet deep that funnels into a 6-foot-diameter bedrock exposed area with several small (<0.5 feet in diameter by 1 foot deep) semi-open and open drainage portals located along near the floor and walls. Slight air flow was noted at the drainage portal openings. This feature appears to have been previously excavated based on the presence of a debris pile located immediately next to the feature. After limited hand excavation, probing with a steel rod encountered firm soil and/or cobbles about 9 feet below the surface. This feature has a high infiltration rate and an apparent



surface runoff catchment of less than 0.4 acres. Due to the feature's apparent excavated limited extent, proximity to the surface, and lack of sufficient air flow, it is Horizon's opinion that F-7 does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-7A: Small upland sinkhole located about 30 feet west of F-7 measuring approximately 10 feet in diameter by 1 foot deep with several small (<0.5 feet in diameter by 2.5 feet deep) semi-open and open drainage portals amongst loose soil and rocks. Slight air flow was noted at the drainage portal openings. After limited hand excavation, probing with a steel rod encountered firm soil and/or cobbles about 3 feet below the surface. This feature has an intermediate infiltration rate and an apparent surface runoff catchment of less than 0.4 acres. Due to the feature's location (next to F-7), proximity to the surface, lack of sufficient air flow, and infilling of soil and/or rock, it is Horizon's opinion that F-7A does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-8: Solution cavity measuring approximately 1 foot long by 0.5 feet wide by 3 feet deep with small, semi-open drainage portal openings among infilled soil and cobbles at depth. Very slight air flow conductivity was noted. After limited hand excavation, probing with a steel rod encountered loose soil and/or cobbles about 3.5 feet below the surface. This feature has an intermediate infiltration rate and an apparent surface runoff catchment of less than 0.4 acres. Due to the feature's small size, proximity to the surface, lack of sufficient air flow, and infilling of soil and/or rock, it is Horizon's opinion that F-8 does not provide suitable habitat for terrestrial karst invertebrates.

Geologic Feature F-9: One mapped normal fault (previously discussed). No apparent surface displacement and/or drainage portals were observed along the mapped fault area. This feature has a low infiltration rate due to overlying soils (Crawford and Bexar stony soils [Cb]).

Photographs of the geologic features (with the exception of F-5) are included as Attachment G. The geologic features were evaluated for their potential to be significant pathways for fluid movement into the Edwards Aquifer. The Geologic Assessment Table (Attachment A) summarizes this evaluation and assigns each feature's sensitivity a total point value. Those with a point value of 40 or higher are deemed to be sensitive groundwater recharge features and should be protected during site development pursuant to TCEQ rules for protection of the Edwards Aquifer (30 TAC 213).

3.0 CONCLUSIONS AND RECOMMENDATIONS

Five geologic features (F-2, F-6, F-7, F-7A, and F-8) have been evaluated as sensitive for groundwater recharge capability and would therefore require TCEQ protective setback buffers. In general, a protective buffer encompassing a sensitive feature is recommended to meet the TCEQ guidance for a setback of at least 50 feet in all directions from the feature's areal extent (perimeter), plus its watershed catchment up to 200 feet from the perimeter of the feature.

Five geologic features (F-1, F-3, F-4, F-5, and F-9) and 1 man-made feature (water well M-1) have been evaluated as non-sensitive for groundwater recharge capability and would



therefore not require TCEQ protective setback buffers. No further action is recommended for these non-sensitive geologic features.

The site generally appears well suited to development prospectuses. It should be noted that soil and drainage erosion would increase with ground disturbance. Native grasses and the cobbly content of the soil aid to prevent erosion. Soil and sedimentation fencing should be placed in all appropriate areas prior to any site-disturbing activities.

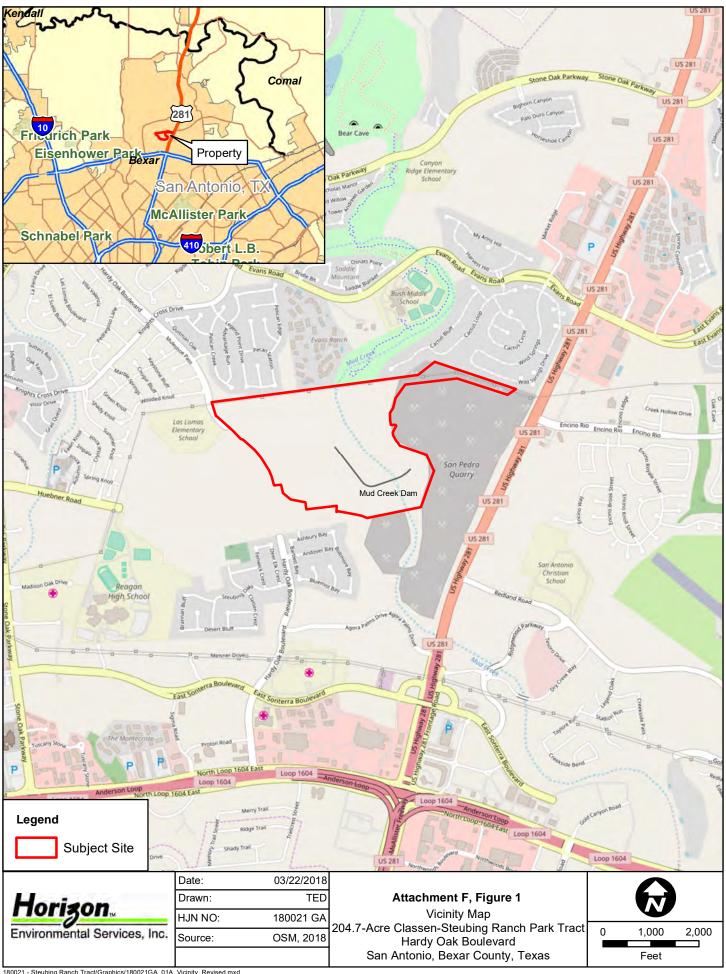
Because the subject site is located over the Edwards Aquifer Recharge Zone, it is possible that subsurface voids underlie the site. If any subsurface voids are encountered during site development, work should halt immediately so that a geologist may assess the potential for the void(s) to provide meaningful contribution to the Edwards Aquifer.

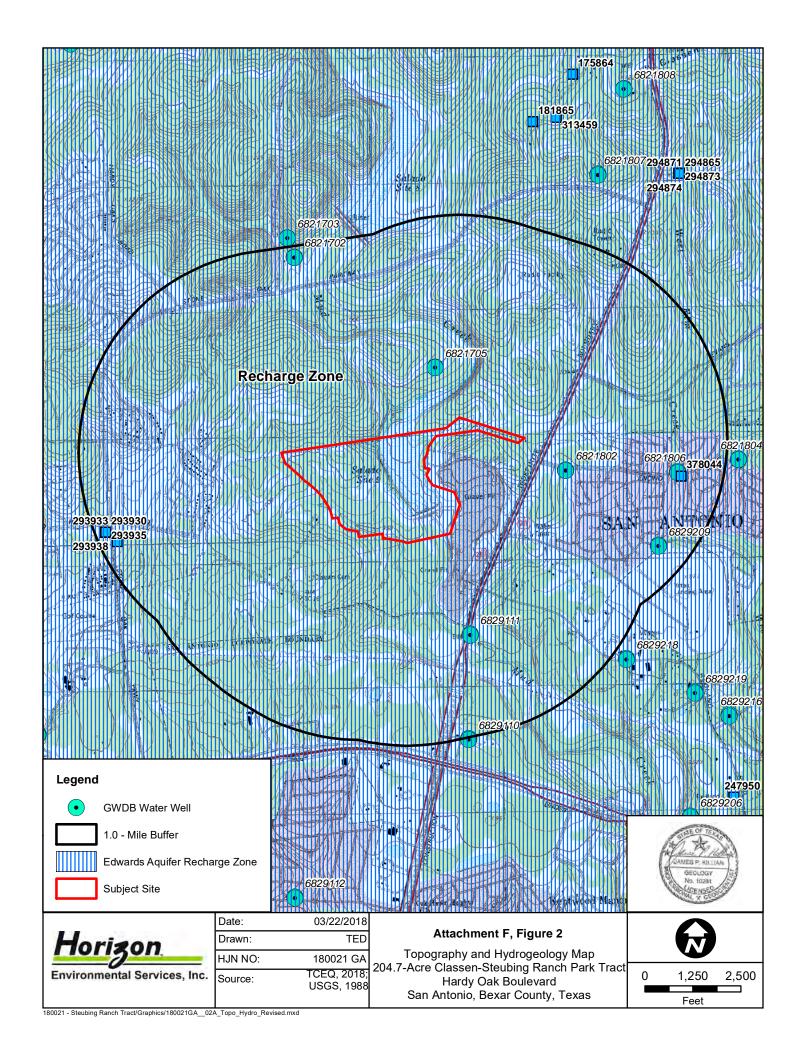


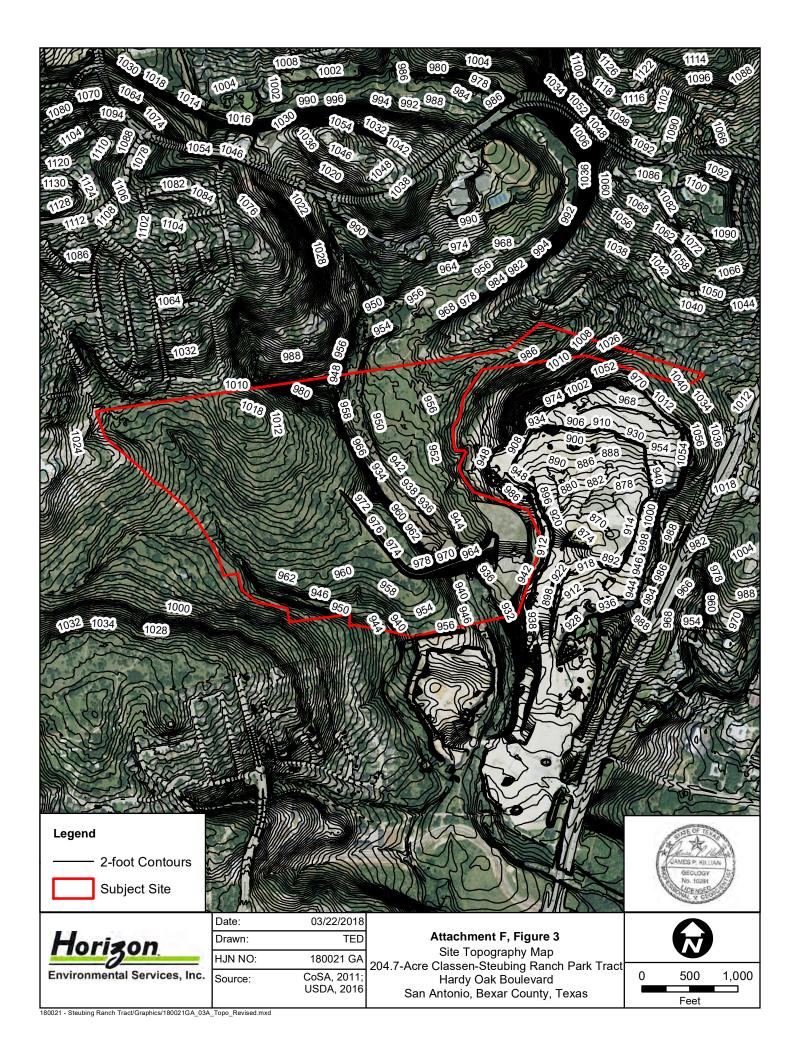
4.0 REFERENCES

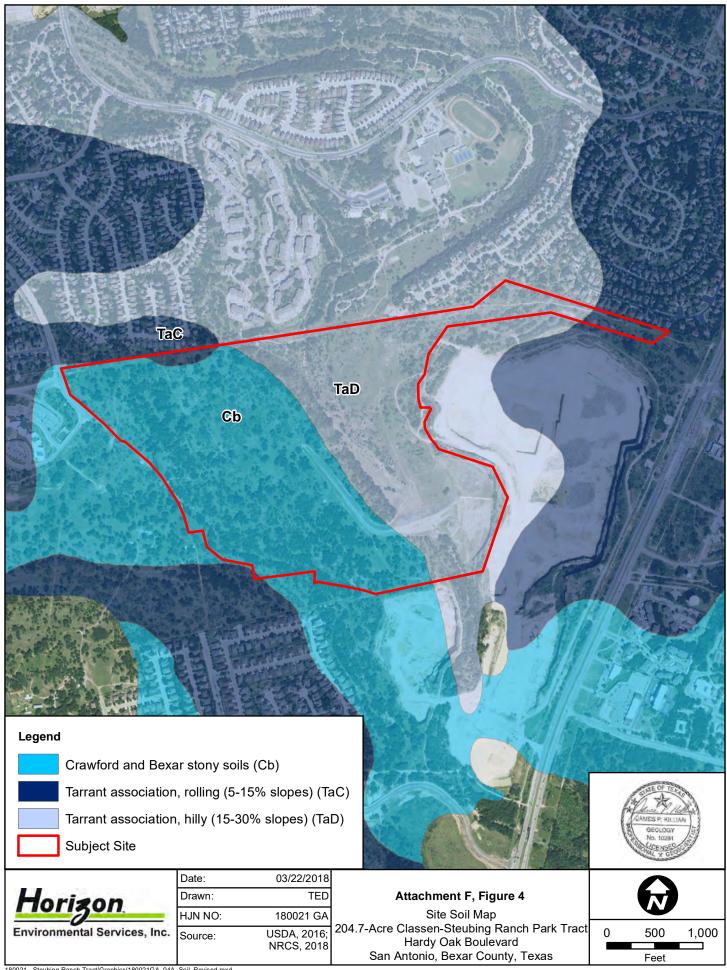
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ATTACHMENT F ADDITIONAL SITE MAPS











ATTACHMENT G SITE PHOTOGRAPHS





PHOTO 1
View of geologic feature F-1 (solution cavities), facing south



PHOTO 3
View of geologic discharge feature F-3 (solution cavities) in cliff face of Mud Creek, facing west



PHOTO 2
View of geologic feature F-2 (solution cavity), facing down



PHOTO 4
View of geologic discharge feature F-4 (solution cavities) in cliff face of Mud Creek, facing southwest





PHOTO 5
View of man-made feature M-1 (private water well), facing northwest



PHOTO 7
Closer view of F-6, facing down



PHOTO 6
View of geologic feature F-6 (swallet hole) in Mud Creek floodplain, facing northwest



PHOTO 8
View of geologic feature F-7 (sinkhole), facing southeast





PHOTO 9 Closer view of F-7, facing down



PHOTO 11 View of geologic feature F-8, facing southwest



PHOTO 10 View of geologic feature F-7A (sinkhole), facing east/southeast



PHOTO 12 Closer view of F-8, facing down

Kimley»Horn

SECTION 4: MODIFICATION OF A PREVIOUSLY APPROVED PLAN FORM COVER PAGE

Modification of a Previously Approved Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), 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

Print Name of Customer/Agent:

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 request for a **Modification of a Previously Approved Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

| Sig | nature of Customer/Agent: |
|-----|---|
| 1. | Current Regulated Entity Name: Original Regulated Entity Name: Regulated Entity Number(s) (RN): Edwards Aquifer Protection Program ID Number(s): The applicant has not changed and the Customer Number (CN) is: The applicant or Regulated Entity has changed. A new Core Data Form has been provided. |
| 2. | Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached. |

| A modification of a previously approved plan is requested for (check all that apply): Physical or operational modification of any water pollution abatement structure(s) including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures; Change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer; Development of land previously identified as undeveloped in the original water pollution abatement plan; Physical modification of the approved organized sewage collection system; Physical modification of the approved underground storage tank system; Physical modification of the approved aboveground storage tank system. | | | | |
|--|--|------------------------------|--|--|
| plan has been modified mo | difications (select plan type being nore than once, copy the appropriat ne information for each additional | e table below, as | | |
| WPAP Modification | Approved Project | Proposed Modification | | |
| Summary | | | | |
| Acres | | | | |
| Type of Development | | | | |
| Number of Residential | | | | |
| Lots | | | | |
| Impervious Cover (acres) | | | | |
| Impervious Cover (% | | | | |
| Permanent BMPs | | | | |
| Other | | | | |
| SCS Modification | Approved Project | Proposed Modification | | |
| Summary | | | | |
| Linear Feet | | | | |
| Pipe Diameter | | | | |
| Other | | | | |

| AST Modif | ication | Approved Project | Proposed Modification |
|------------|--|--|---|
| Summary | | | |
| Number of | ASTs | | |
| Volume of | ASTs | | |
| Other | | | |
| UST Modif | ication | Approved Project | Proposed Modification |
| Summary | | | |
| Number of | USTs | | |
| Volume of | USTs | | |
| Other | | | |
| the inc | nature of the propose | of Proposed Modification. A detadd modification is attached. It discundifications, and how this proposed | usses what was approved, |
| the mo mo | existing site developmedification is attached. dification is required element of the approved construction any subsequent modification document that the approved construction illustrates that the site of the approved construction illustrates that the site of the approved construction approved construction of the approved construction illustrates that the site of the approved construction illustrates that the site of the approved construction is approved construction of the approved construction is attachment C illustrates the approved construction is attachment C illustrates that the approved construction is attachment C illustrates t | te Plan of the Approved Project. A sent (i.e., current site layout) at the A site plan detailing the changes pulsewhere. It is a site plan detailing the changes pulsewhere. It is a site plan detailing the changes pulsewhere. It is a site plan detail the changes pulsewhere. It is a site plan detail the changes pulsewhere. It is a site proval letters are included proval has not expired. It is a site plan which is a site plan wh | e time this application for roposed in the submitted ginal approval letter and ed as Attachment A to n completed. Attachment C . been completed. cructed as approved. been completed. |
| pro | vided for the new acre | red plan has increased. A Geologic age. ed to or removed from the approv | |
| nee cou | eded for each affected inty in which the projection lies to these jurisdiction | d one (1) copy of the application, pincorporated city, groundwater conct will be located. The TCEQ will dins. The copies must be submitted | nservation district, and stribute the additional |

Kimley»Horn

ATTACHMENT A - ORIGINAL APPROVAL LETTER AND APPROVED MODIFICATION LETTERS

Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Erin E. Chancellor, *Interim Executive Director*





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 17, 2023

Mr. Mark Wittlinger City of San Antonio 100 W. Houston Street Garage – Street Level San Antonio, Texas 78205

Re: Edwards Aquifer, Bexar County

NAME OF PROJECT: Classen-Steubing Ranch Park; Located approximately 0.5 miles north of Hardy Oak Blvd. and Huebner Rd. intersection.; San Antonio, Texas TYPE OF PLAN: Request for Modification of an Approved Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer Regulated Entity No. RN111075701; Additional ID. No. 13001683

Dear Mr. Wittlinger:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the WPAP Modification application for the above-referenced project submitted to the San Antonio Regional Office by Halff Associates, Inc. on behalf of the City of San Antonio on January 2, 2023. Final review of the WPAP Modification was completed after additional material was received on February 7, 2023. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

BACKGROUND

The Classen-Steubing Park WPAP (Additional ID No. 13001196) was approved by letter dated November 5, 2020, for the Phase 1 development of a city park on 39.62 acres noting the park property encompasses 204 acres.

Mark Wittlinger February 17, 2023 Page 2

PROJECT DESCRIPTION

The purpose of this modification is to account for 0.53 acres of impervious cover for the playground area that was discovered to be uncaptured for treatment when construction commenced for the WPAP. The drainage area boundary for batch detention basin #3 will be modified to allow for treatment of the playground area. Project wastewater will be disposed of by conveyance to the existing Steven M. Clouse Water Recycling Center owned and operated by the San Antonio Water System.

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or up-gradient of the site and potentially flowing across and off the site after construction, existing batch detention basin #3 (13001196), designed using the TCEQ technical guidance document, Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005), will be utilized to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 432 pounds of TSS generated from the 0.53 acres of impervious cover for the playground area. The approved measure meets the required 80 percent removal of the increased load in TSS caused by the project.

GEOLOGY

According to the geologic assessment included with the application, the site is located on the Kainer Formation. One (1) non-sensitive geologic feature was noted by the project geologist within the 39.62-acre project limits. The site assessment conducted on February 13, 2023, revealed that the site was generally as described in the application.

SPECIAL CONDITIONS

- I. This modification is subject to all Special and Standard Conditions listed in the WPAP approval letter dated November 5, 2020.
- II. All sediment and/or media removed from the existing water quality basin during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

STANDARD CONDITIONS

- 1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.
- 2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.
- 3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water quality.

Prior to Commencement of Construction:

4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed

Mark Wittlinger February 17, 2023 Page 3

Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved WPAP is enclosed.

- 5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 6. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
- 8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

- 10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
- 11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 6, above.
- 12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.
- 13. No wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.

- 14. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

- 18. 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 San Antonio Regional Office within 30 days of site completion.
- 19. The applicant shall be 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. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.
- 20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
- 21. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
- 22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

Mark Wittlinger February 17, 2023 Page 5

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G., of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4074.

Sincerely,

Lillian Buther

Lillian Butler, Section Manager Edwards Aquifer Protection Program Texas Commission on Environmental Quality

LIB/dpm

Enclosure: Deed Recordation Affidavit, Form TCEQ-0625

Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Mr. Marcos Diaz, P.E., Halff Associates, Inc.

Deed Recordation Affidavit Edwards Aquifer Protection Plan

| THE S | TAT | E OF TEXAS | | |
|--|------|---|--|--|
| County | of_ | Bexar | | |
| sworn l | | FORE ME, the un ne, deposes and | signed authority, on this day personally appeared $\underline{}$ s: | Homer Garcia III who, being duly |
| | (1) | That my nam | S Homer Garcia III and that I own the | real property described below. |
| | (2) | | roperty is subject to an EDWARDS AQUIFER PROTE exas Administrative Code (TAC) Chapter 213. | CTION PLAN which was required |
| | (3) | That the EDV Commission | RDS AQUIFER PROTECTION PLAN for said real prop Environmental Quality (TCEQ) on February 17, 202 | perty was approved by the Texas 23 |
| | | A copy of th incorporated | etter of approval from the TCEQ is attached to the rein by reference. | nis affidavit as Exhibit A and is |
| | (4) | The said rea the property | | xas, and the legal description or |
| SWORI | NA N | ND SUBSCRIBED | LANDOWNER-AFFIANT D before me, on this 10 day of April, 2013 | |
| | | | NOTARY PUBLIC | |
| THE ST | ATI | OF TOXAS | | |
| County | of _ | BEXAIL | | |
| be the p | oers | on whose name i | ed authority, on this day personally appeared Home ubscribed to the foregoing instrument, and acknowled ideration therein expressed. | known to me to edged to me that (s)he executed |
| GIVEN | und | er my hand and s | of office on this of day of April , 2013. | |
| ************************************** | | RYAN EVANS Notary Public, State of Comm. Expires 04-06 Notary ID 1259477 | | |
| L mill | | | MY COMMISSION EXPIRES: 04-04-2024 | |



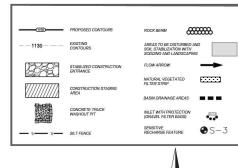
ATTACHMENT B - NARRATIVE OF PROPOSED MODIFICATIONS

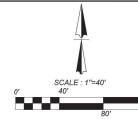
Proposed Development

The proposed project includes the construction of surface parking for vehicles, a path for fire truck access, recreational courts, and landscape improvements. Water lines will be designed in accordance to SAWS specifications and connect to SAWS utility services. Access to the site will be through one existing driveway. The overall project will disturb 4.15 acres of land. The proposed site has a total of 5.17 acres (11.76%) of total impervious cover that includes parking, roof/building, sidewalk, pavement surfaces, and existing impervious cover. From a water quality standpoint, of the 4.15 acres being disturbed 0.80 acres and 2.60 acres (drainage area DA-4 and DA-5) will be treated according to TCEQ requirements with two water quality ponds. Based on the TCEQ Site Plan included as Attachment K, flows from DA-4 and DA-5 will travel via sheet and shallow concentrated flows across the site before discharging into proposed the ponds. The other proposed drainage areas DA-6, DA-7, DA-8, DA-9, DA-10, DA-11, and DA-12 will flow through vegetative filter strips to meet required TSS removal. Collectively, all impervious cover flows generated by the site will be treated before being discharged into the existing creek.

Kimley » Horn

ATTACHMENT C – CURRENT SITE PLAN OF THE APPROVED PROJECT





- A written notice of construction must be submitted t prior to the start of any regulated activities. This not -The name of the approved project; -The activity start date; and -The contact information of the prime contractor
- All contractors conducting regulated activities associated with this project must be provided with compilete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEO letter indicating the specific conditions of its approval. Unrugh the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
- 3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction all regulated activities near the sensitive feature must be suspended immediately. The appropriate FCEO regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective massures in order to protect any sensitive feature and the Edwards Aquiller from potentially adverse impacts to water quality.
- 5. Prior beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and manitamed in accordance with the approved plans and manufactures specifications. I'mspections indicate a control has been used inappropriately, or incurrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the distulted areas have been permanently adulticed.
- Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
- Sediment must be removed from sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.
- Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- 9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquiller Recharge Zone, the owner of the site must receive approvi of a valuer poliution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
- 10. If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of mactivity. If early will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
- The following records shall be maintained and made available to the TCEO upon request
 The dates when major grading activities occur,
 The dates when construction activities temporarily or permanently cease on a portion of the site;
- -The dates when stabilization measures are initiated.
- A. any physical or operational modification of any water pollution abatement structure(s) including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary MARCHERS, INSTITUTE OF THE PROPERTY OF T
- B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-2929 Fax (512) 339-3795 MAJOR LBL (LT TOP)

San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone(210) 490-3096 Fax (210) 545-4329

MAJOR LBL (LT TOP)

THIS DOCUMENT WAS MODIFIED BY HALFF ASSOCIATES UNDER THE DIRECTION OF MARCOS DIAZ PE # 107249 FOR TCEQ SITE PLAN UPDATE.



SSEN-STEUBING RANCH PARK 2017 BOND IMPROVEMENTS RANCH 0

06.09.20 Drawn By Checked By Sheet Title

Drainag Areas

Sheet Number

Kimley » Horn

SECTION 5: APPLICATION FORM COVER PAGE

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

Print Name of Customer/Agent: _____

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:

| Da | te: |
|-----|---|
| Sig | nature of Customer/Agent: |
| | Janus Find |
| Re | gulated Entity Name: |
| R | egulated 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): |
| 3. | Estimated projected population: |
| 4. | The amount and type of impervious cover expected after construction are shown below: |

Table 1 - Impervious Cover Table

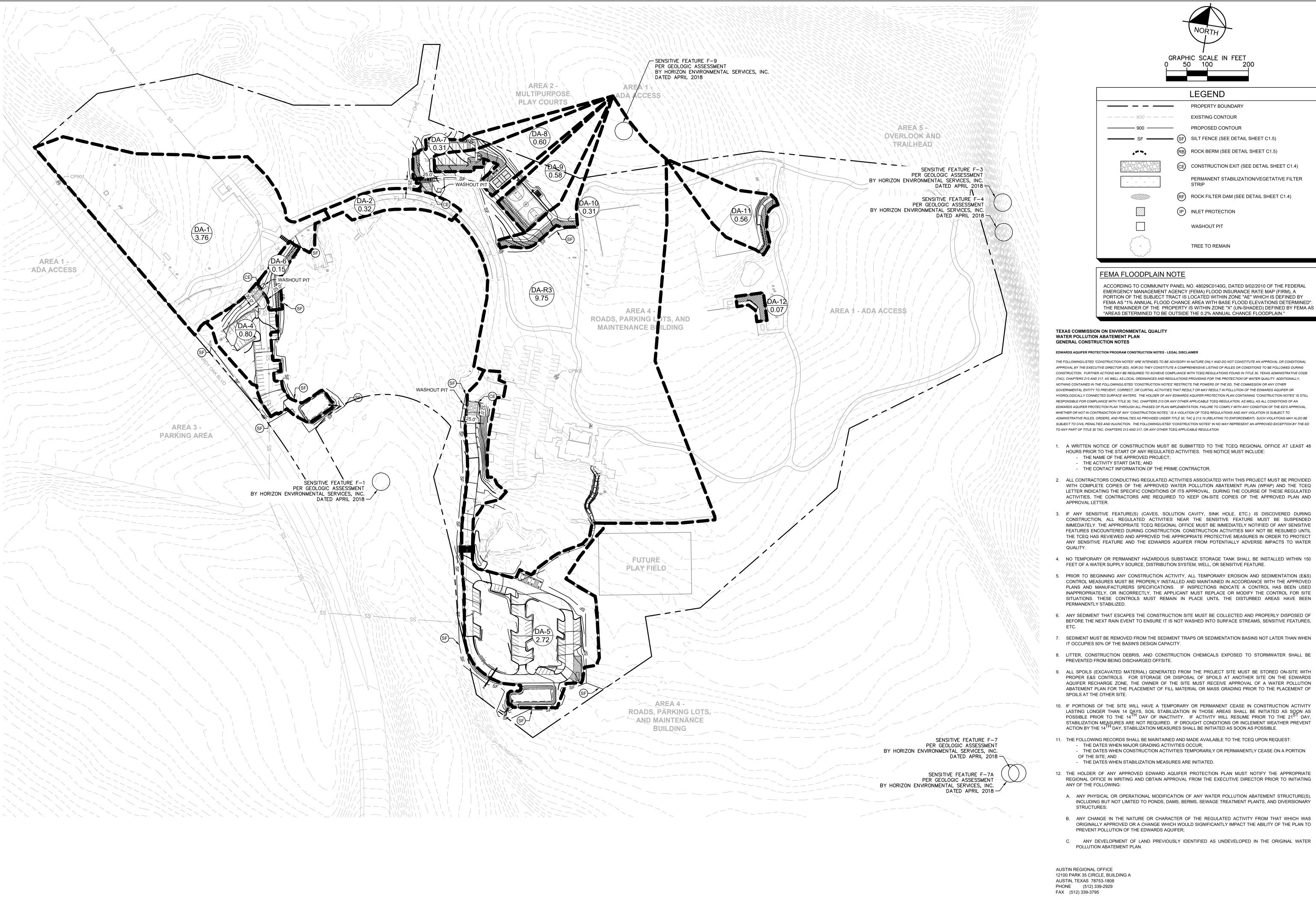
| Impervious Cover of Proposed Project | Sq. Ft. | Sq. Ft./Acre | Acres |
|--------------------------------------|---------|--------------|-------|
| Structures/Rooftops | | ÷ 43,560 = | |
| Parking | | ÷ 43,560 = | |
| Other paved surfaces | | ÷ 43,560 = | |
| Total Impervious Cover | | ÷ 43,560 = | |

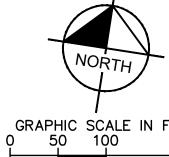
| | surfaces | | ÷ 43,560 = | | |
|-----|--|---|-----------------------|--------|---------------------|
| • | Total Impervious Cover | | ÷ 43,560 = | | |
| L | Total Impervious Cove | r ÷ Total Acreag | ge X 100 = | % | Impervious Cover |
| 5. | | tors Affecting Surface ffect surface water and | • | | • |
| 6. | Only inert materials | s as defined by 30 TAC | §330.2 will be used | as fil | l material. |
| F | or Road Project | ts Only | | | |
| Co | mplete questions 7 - 12 | if this application is e | xclusively for a road | l proj | ject. |
| 7. | Type of project: | | | | |
| | City thoroughfare or | Is built to county speci r roads to be dedicated ding access to private | d to a municipality. | | |
| 8. | Type of pavement or ro | oad surface to be used | : | | |
| | Concrete Asphaltic concrete p Other: | pavement | | | |
| 9. | Length of Right of Way | (R.O.W.): feet. | | | |
| | Width of R.O.W.: Ft ² ÷ 43, | | acres. | | |
| 10. | Length of pavement ar | ea: feet. | | | |
| | Width of pavement are $L \times W = $ $Ft^2 \div 43$, Pavement area a | 560 Ft²/Acre = a | | 9 | 6 impervious cover. |
| 11. | A rest stop will be in | ncluded in this project | | | |
| | A rest stop will not | be included in this pro | ject. | | |

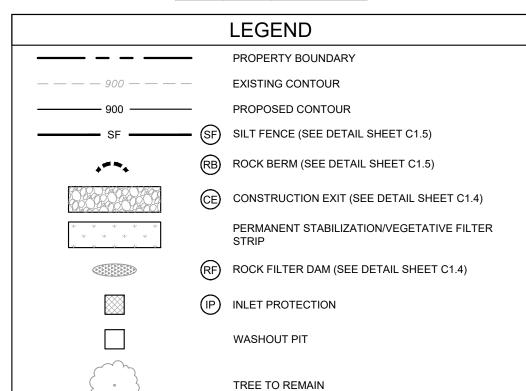
| TCEQ Executive I roads/adding sho | Director. Modifications to ex | that do not require approval from the isting roadways such as widening ne-half (1/2) the width of one (1) existing |
|---|--|--|
| Stormwater to | be generated by | the Proposed Project |
| volume (quantity occur from the p | y) and character (quality) of t proposed project is attached. Itity are based on the area ar | ormwater. A detailed description of the the stormwater runoff which is expected to The estimates of stormwater runoff and type of impervious cover. Include the estruction and post-construction conditions |
| Wastewater to | be generated by | the Proposed Project |
| 14. The character and v | olume of wastewater is show | n below: |
| % Domestic% Industrial% Commingled TOTAL gallons/d | | Gallons/day Gallons/day Gallons/day |
| 15. Wastewater will be | disposed of by: | |
| On-Site Sewage | Facility (OSSF/Septic Tank): | |
| will be used to licensing aut the land is sue the requirem relating to O Each lot in the size. The sys | to treat and dispose of the whority's (authorized agent) whitable for the use of private sents for on-site sewage facily n-site Sewage Facilities. is project/development is at tem will be designed by a lice | rathorized Agent. An on-site sewage facility rastewater from this site. The appropriate ritten approval is attached. It states that sewage facilities and will meet or exceed ities as specified under 30 TAC Chapter 285 least one (1) acre (43,560 square feet) in ensed professional engineer or registered aller in compliance with 30 TAC Chapter |
| Sewage Collection | on System (Sewer Lines): | |
| to an existing | g SCS. ce laterals from the wastewa | ter generating facilities will be connected ter generating facilities will be connected |
| The SCS was The SCS will I | previously submitted on submitted with this applicati se submitted at a later date. orior to Executive Director ap | The owner is aware that the SCS may not |

| The sewage collection system will convey the wastewater to the (name) Treatment Plant. The treatment facility is: |
|---|
| Existing. Proposed. |
| 16. All private service laterals will be inspected as required in 30 TAC §213.5. |
| Site Plan Requirements |
| Items 17 – 28 must be included on the Site Plan. |
| 17. \square The Site Plan must have a minimum scale of 1" = 400'. |
| Site Plan Scale: 1" ='. |
| 18. 100-year floodplain boundaries: |
| Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled. No part of the project site is located within the 100-year floodplain. The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): |
| 19. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan. |
| The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan. |
| 20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.): |
| There are (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply) |
| The wells are not in use and have been properly abandoned. The wells are not in use and will be properly abandoned. The wells are in use and comply with 16 TAC §76. |
| There are no wells or test holes of any kind known to exist on the project site. |
| 21. Geologic or manmade features which are on the site: |
| All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled. No sensitive geologic or manmade features were identified in the Geologic Assessment. Attachment D - Exception to the Required Geologic Assessment. A request and |
| justification for an exception to a portion of the Geologic Assessment is attached. |

| 22 | The drainage patterns and approximate slopes anticipated after major grading activities |
|-------|--|
| 23. 🗌 | Areas of soil disturbance and areas which will not be disturbed. |
| 24. | Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices. |
| 25. 🗌 | Locations where soil stabilization practices are expected to occur. |
| 26. 🗌 | Surface waters (including wetlands). |
| | N/A |
| 27. 🗌 | Locations where stormwater discharges to surface water or sensitive features are to occur. |
| | There will be no discharges to surface water or sensitive features. |
| 28. 🗌 | Legal boundaries of the site are shown. |
| Adm | ninistrative 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. |







FEMA FLOODPLAIN NOTE

ACCORDING TO COMMUNITY PANEL NO. 48029C0140G, DATED 9/02/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN."

WATER POLLUTION ABATEMENT PLAN

WHETHER OR NOT IN CONTRADICTION OF ANY "CONSTRUCTION NOTES," IS A VIOLATION OF TCEQ REGULATIONS AND ANY VIOLATION IS SUBJECT TO ADMINISTRATIVE RULES, ORDERS, AND PENALTIES AS PROVIDED UNDER TITLE 30, TAC § 213.10 (RELATING TO ENFORCEMENT). SUCH VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AND INJUNCTION. THE FOLLOWING/LISTED "CONSTRUCTION NOTES" IN NO WAY REPRESENT AN APPROVED EXCEPTION BY THE ED TO ANY PART OF TITLE 30 TAC, CHAPTERS 213 AND 217, OR ANY OTHER TCEQ APPLICABLE REGULATION

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

AUSTIN REGIONAL OFFICE 12100 PARK 35 CIRCLE, BUILDING A AUSTIN, TEXAS 78753-1808 PHONE (512) 339-2929 FAX (512) 339-3795

SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490-3096 FAX (210) 545-4329

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







Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W. Checked By: JASON L

Sheet Title

Sheet Number

Project Page Number

WATER ABATEMENT PLAN

Kimley»Horn

SECTION 6: TEMPORARY STORMWATER SECTION COVER PAGE

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: |
|--|
| Date: |
| Signature of Customer/Agent: |
|) and fine |
| Regulated Entity Name: |
| 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. |
| 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: |
| Temporary Best Management Practices (TBMPs) |
| Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan. |
| 7. Attachment D – Temporary Best Management Practices and Measures. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached: |

| | A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site. |
|-------|--|
| | A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site. A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer. A description of how, to the maximum extent practicable, BMPs and measures will |
| | maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction. |
| 8. | The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided. |
| | Attachment E - Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature. |
| | There will be no temporary sealing of naturally-occurring sensitive features on the site. |
| 9. | Attachment F - Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided. |
| 10. [| Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached: |
| | For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided. For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used. |
| | For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area. |
| | There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area. |

| | ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used. |
|---------|---|
| 11. | Attachment H - Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached. |
| | N/A |
| 12. | Attachment I - Inspection and Maintenance for BMPs. A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP. |
| 13. | All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. |
| | 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 |
| mulchii | les: establishment of temporary vegetation, establishment of permanent vegetation, ng, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or vation 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. |
| Adn | ninistrative 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

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.



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 and rock berms will prevent sediment from leaving the site. The proposed grassy swale will provide sedimentation during construction. Siltation collected by the control measures will be cleaned from fences, berms, etc. on a routine schedule.

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:

- 1. Refueling construction equipment.
- 2. Performing operator-level maintenance, including adding petroleum, oils, or lubricants.
- 3. Unscheduled or emergency repairs, such as hydraulic fluid leaks.

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, parking lot pavement and concrete sidewalks. Oil and fuel discharge from vehicles is anticipated. A partial sedimentation/filtration pond and grassy swale will mitigate these factors.



ATTACHMENT C - SEQUENCE OF MAJOR ACTIVITIES

The sequence of major activities will be as the following:

- 1. Establishment of temporary erosion control BMPs.
- 2. Site grading.
- 3. Establishment of additional pavement and parking.
- 4. Establishment of vegetation within disturbed areas.
- 5. Removal of temporary BMPs.



ATTACHMENT D - TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Implementation of BMPs shall be directed/approved by the engineer. Temporary BMPs shall be adjusted and remain throughout the construction process to prevent the pollution of surface, groundwater, and/or stormwater. See the following Erosion Control Sheet for details.

GRAPHIC SCALE IN FEET

LEGEND PROPERTY BOUNDARY EXISTING CONTOUR PROPOSED CONTOUR PROPOSED LIMITS OF DISTURBANCE DIRECTION OF OVERLAND FLOW W/GRADE (SF) SILT FENCE (SEE DETAIL SHEET C1.5) (RB) ROCK BERM (SEE DETAIL SHEET C1.5) CE) CONSTRUCTION EXIT (SEE DETAIL SHEET C1.4) PERMANENT STABILIZATION (RF) ROCK FILTER DAM (SEE DETAIL SHEET C1.4) (IP) INLET PROTECTION EXISTING TREE TO REMAIN, REF. LANDSCAPE/TREE

NOTES

PRESERVATION PLANS FOR DETAILS

- AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.
- REFERENCE LANDSCAPE PLANS, BY OTHERS, FOR THE TREE PRESERVATION AND

EROSION CONTROL SCHEDULE AND SEQUENCING

| I. | ROUGH GRADING/ DEMOLITION | CONSTRUCTION ENTRANCE/EXIT, TREE PROTECTION, FILTER DAMS AND SILT FENCE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. |
|------|--|--|
| II. | UTILITY INSTALLATION | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. |
| III. | PAVING | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT. |
| IV. | FINAL GRADING/ SOIL STABILIZATION/ LANDSCAPING | ALL TEMPORARY EROSION CONTROL MEASURES TO B REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE CITY OR COUNTY. |

| | SITE DATA | |
|---|-----------|----------------------|
| TOTAL LOT AREA | 43.97 AC | 1,915,333 SF |
| TOTAL AREA DISTURBED * | 3.96 AC | 172,532 SF |
| PAVED AREA | 2.21 AC | 96,071.87 SF |
| ROOFED AREA | 0.07 AC | 3,227 SF |
| NEW LANDSCAPED AREA | 1.75 AC | 76,230 SF |
| * DOES NOT INCLUDE ANY OFF-SITE UPDATE AS NECESSARY DURING C | | REAS - CONTRACTOR TO |

NO SINGLE DRAINAGE AREA EXCEEDS 10 ACRES, THEREFORE SEDIMENTATION BASIN IS NOT REQUIRED.

PERMANENT EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
- A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND BETWEEN THE CURB AND THE RIGHT-OF-WAY LINE.
- B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

BROADCAST SEEDING:

HYDRAULIC SEEDING:

- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.
- FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION. A. FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE
- DURING THE PERIOD OF ESTABLISHMENT AT THE RATE OF 1 POUND PER 1000 SQUARE FEET. B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET.
- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.
- OF 95% WITH 85% GERMINATION. A. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN

FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED

BERMUDA AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY

- ANALYSIS OF 15-15-15 AT THE RATE OF 1.5 POUNDS PER 1000 SQUARE B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET, WITH SOIL TACKIFIER AT
- A RATE OF 1.4 POUNDS PER 1000 SQUARE FEET. C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUP AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE
- WATERING SCHEDULE FOR ONE WEEK. D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST. E. WHEN REQUIRED. NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL

SITE MAPS - SITE SPECIFIC NOTES

- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:
- A. CLEARING AND GRUBBING B. PRELIMINARY GRADING C. UTILITY INSTALLATION
- D. PAVEMENT CONSTRUCTION
- E. BUILDING CONSTRUCTION F. FINAL GRADING AND STABILIZATION
- PENDING GEOTECH REPORT.
- STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND UNDERGROUND PIPE.
- POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.
- VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.
- DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE
- ACCORDING TO COMMUNITY PANEL NO. 48029C0140G, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
- CHANCE FLOODPLAIN." CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
-). CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.

TEMPORARY EROSION CONTROL NOTES

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE
- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

SITE MAP - GENERAL NOTES

- CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
- CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
- 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 LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
- . 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.

SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.



MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54

MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05

ELEVATION: 1010.28' CP 902 MAG NAIL SET IN CURB N: 13.777.728.43

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR

IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO

EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF

ANY DISCREPANCIES ON THE PLANS.

E: 2,135,076.01 ELEVATION: 1003.64





100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

Checked By: JASON L Sheet Title EROSION CONTROL PLAN

(SHEET 1 OF 3)

Project Page Number Sheet Number

PERMANENT EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
- A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND BETWEEN THE CURB AND THE RIGHT-OF-WAY LINE.
- B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

BROADCAST SEEDING:

- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A
- PURITY OF 95% WITH 90% GERMINATION. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET WITH A PURITY
- OF 95% WITH 85% GERMINATION. A. FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT THE RATE OF 1 POUND PER 1000 SQUARE FEET.
- B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET. HYDRAULIC SEEDING:
- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A
- PURITY OF 95% WITH 90% GERMINATION. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.
- A. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT THE RATE OF 1.5 POUNDS PER 1000 SQUARE
- B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET, WITH SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1000 SQUARE FEET
- C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUP AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE
- WATERING SCHEDULE FOR ONE WEEK. D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
- E. WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL.

SITE MAPS - SITE SPECIFIC NOTES

- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:
- A. CLEARING AND GRUBBING
- B. PRELIMINARY GRADING C. UTILITY INSTALLATION D. PAVEMENT CONSTRUCTION
- E. BUILDING CONSTRUCTION F. FINAL GRADING AND STABILIZATION
- PENDING GEOTECH REPORT.
- STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND UNDERGROUND PIPE.
- POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.
- VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.
- DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE
- ACCORDING TO COMMUNITY PANEL NO. 48029C0140G, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
- CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
-). CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR

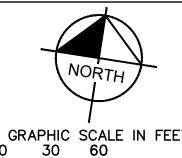
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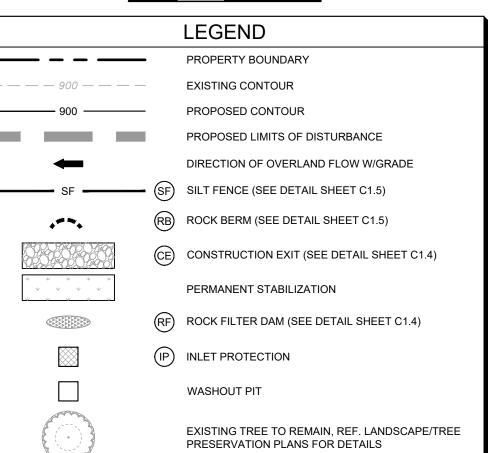
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SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.



GRAPHIC SCALE IN FEET



NOTES

- AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.
- REFERENCE LANDSCAPE PLANS, BY OTHERS, FOR THE TREE PRESERVATION AND MITIGATION PLAN.

EROSION CONTROL SCHEDULE AND SEQUENCING

| l. | ROUGH GRADING/ DEMOLITION | CONSTRUCTION ENTRANCE/EXIT, TREE PROTECTION, FILTER DAMS AND SILT FENCE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. |
|------|---------------------------------------|--|
| II. | UTILITY INSTALLATION | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. |
| III. | PAVING | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT. |
| IV. | FINAL GRADING/ SOIL STABILIZATION/ | ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS |

DIRECTED BY THE CITY OR COUNTY.

| , | SITE DATA | |
|------------------------|-----------|--------------|
| TOTAL LOT AREA | 43.97 AC | 1,915,333 SF |
| TOTAL AREA DISTURBED * | 3.96 AC | 172,532 SF |
| PAVED AREA | 2.21 AC | 96,071.87 SF |
| ROOFED AREA | 0.07 AC | 3,227 SF |
| NEW LANDSCAPED AREA | 1.75 AC | 76,230 SF |

STABILIZATION/ LANDSCAPING

UPDATE AS NECESSARY DURING CONSTRUCTION. NO SINGLE DRAINAGE AREA EXCEEDS 10 ACRES, THEREFORE SEDIMENTATION BASIN IS NOT REQUIRED.

BENCHMARK LIST

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54

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MAG NAIL SET IN CURB N: 13.777.728.43

igwedge existing underground utilities in the area contractor $\,{}^{'}$

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO

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VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

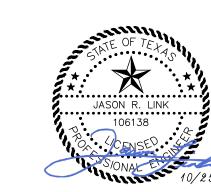
EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

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E: 2,135,076.01 ELEVATION: 1003.64



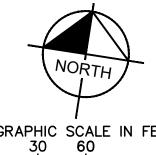


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100% CONSTRUCTION DOCUMENTS Project No.: 068710058 Issued: 10/25/2024

Drawn By: NATE W. Checked By: JASON L. Sheet Title

EROSION CONTROL PLAN (SHEET 2 OF 3)



GRAPHIC SCALE IN FEET

SITE MAPS - SITE SPECIFIC NOTES

A. CLEARING AND GRUBBING

D. PAVEMENT CONSTRUCTION E. BUILDING CONSTRUCTION

F. FINAL GRADING AND STABILIZATION

B. PRELIMINARY GRADING

C. UTILITY INSTALLATION

PENDING GEOTECH REPORT.

CHANCE FLOODPLAIN."

EQUIPMENT STORAGE AREAS.

SITE MAP - GENERAL NOTES

CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE

TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.

STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND

POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES

INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.

DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION

WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR

PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE

PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT.

CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE

ACCORDING TO COMMUNITY PANEL NO. 48029C0140G, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED

BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL

INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR

. CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR

DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR

CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION,

SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.

EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.

CONNECTED TO A MUNICIPAL SEWER SYSTEM.

TEMPORARY EROSION CONTROL NOTES

TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE

PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).

CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR

MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS

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TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION

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REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION

. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO

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. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM

THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND

THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN

ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION

INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION

REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER,

D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN

WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL.

SPOTS LARGER THAN 16 SQUARE FEET EXIST.

AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE

IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.

CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.

. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND

CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO

VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.

THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:

LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE, ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED

LEGEND PROPERTY BOUNDARY EXISTING CONTOUR PROPOSED CONTOUR PROPOSED LIMITS OF DISTURBANCE DIRECTION OF OVERLAND FLOW W/GRADE (SF) SILT FENCE (SEE DETAIL SHEET C1.5) (RB) ROCK BERM (SEE DETAIL SHEET C1.5) (CE) CONSTRUCTION EXIT (SEE DETAIL SHEET C1.4) PERMANENT STABILIZATION (RF) ROCK FILTER DAM (SEE DETAIL SHEET C1.4) (IP) INLET PROTECTION WASHOUT PIT

EXISTING TREE TO REMAIN, REF. LANDSCAPE/TREE

PRESERVATION PLANS FOR DETAILS

NOTES

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- REFERENCE LANDSCAPE PLANS, BY OTHERS, FOR THE TREE PRESERVATION AND MITIGATION PLAN.

EROSION CONTROL SCHEDULE AND SEQUENCING

ROUGH GRADING/ CONSTRUCTION ENTRANCE/EXIT, TREE PROTECTION, FILTER DAMS AND SILT FENCE PROTECTION SHALL BE DEMOLITION INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. UTILITY INSTALLATION ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.

ALL TEMPORARY EROSION CONTROL MEASURES TO BE FINAL GRADING/ SOIL STABILIZATION/ REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE CITY OR COUNTY. LANDSCAPING

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BENCHMARK LIST

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85

CP 902



100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE \overline{W} .

Checked By: JASON L Sheet Title EROSION CONTROL PLAN

(SHEET 3 OF 3)

Sheet Number Project Page Number C1.3

Know what's **below**.

THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A ENVIRONMENTAL SPECIALIST. OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

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IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

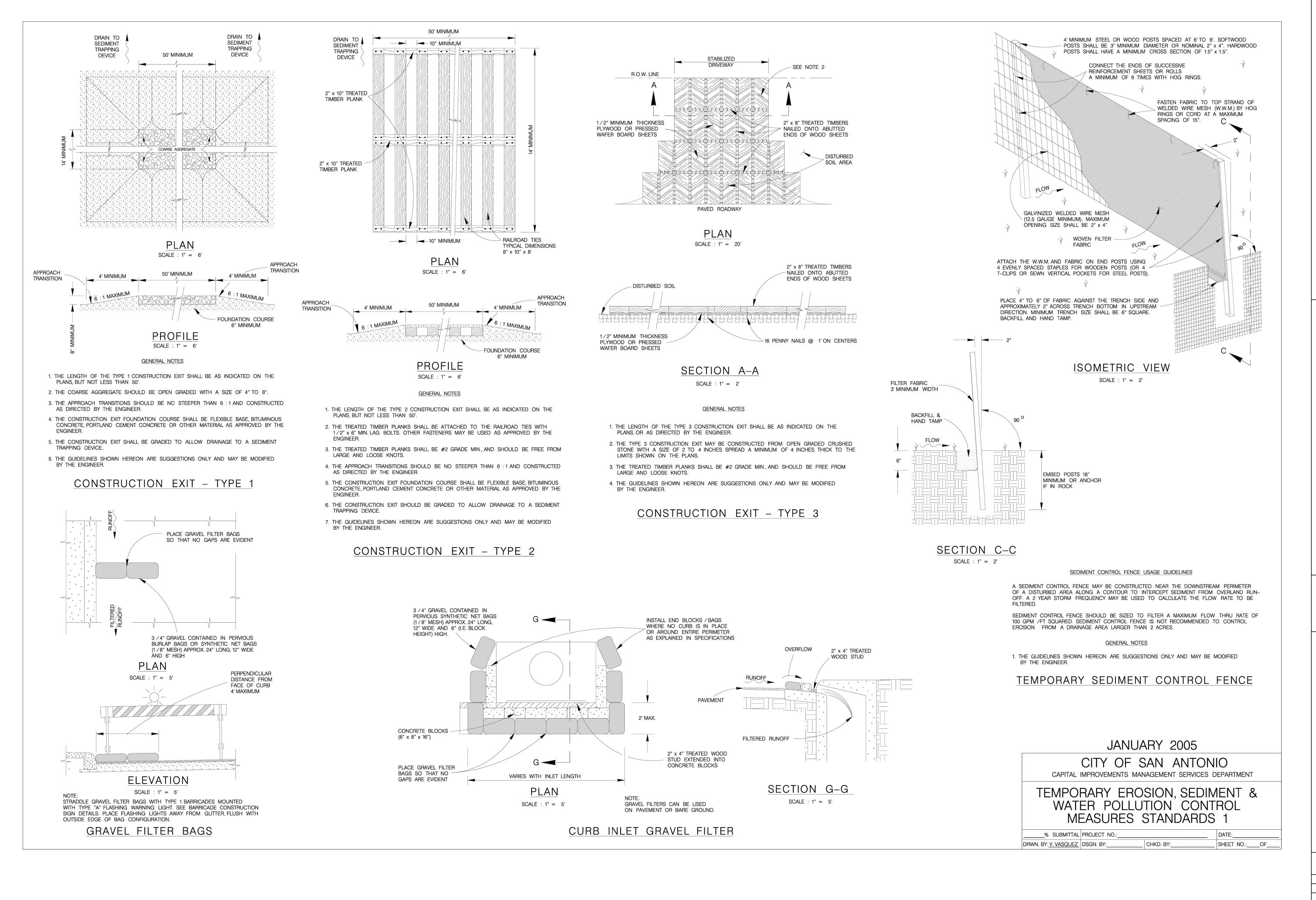
CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

ELEVATION: 995.54

MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05 **ELEVATION: 1010.28'**

MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01 ELEVATION: 1003.64







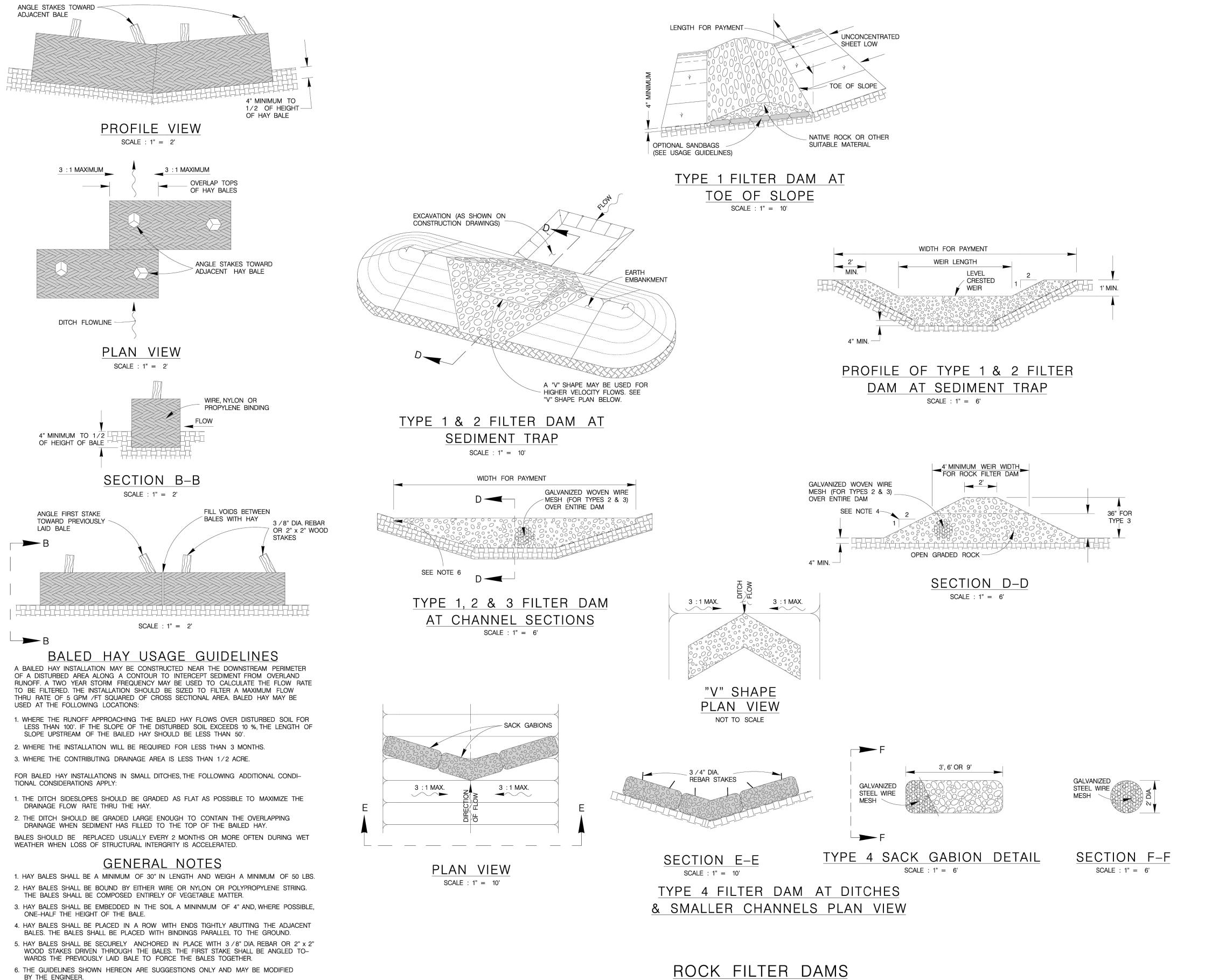
100% CONSTRUCTION DOCUMENTS

Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

Checked By: JASON L Sheet Title

EROSION CONTROL DETAILS (SHEET 1 OF2)

Sheet Number Project Page Number



BALED HAY FOR EROSION CONTROL

ROCK FILTER DAM USAGE GUIDELINES

ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLOAD RUNOFF AND /OR CONCENTRATED FLOW. THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 60 GPM /FT SQUARED OF CROSS SECTIONAL AREA.. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE

TYPE 1 (18" HIGH WITH NO WIRE MESH):

TYPE 1 MAY BE USED AT THE TOE OF SLOPES, AROUND INLETS, IN SMALL DITCHES AND AT FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 MAY NOT BE USED IN CONCEN-TRATED HIGH VELOCITY FLOWS (APPROXIMATELY 8 FT./SEC. OR MORE) IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE EMBEDDED FOUNDATION (4" DEEP MIN.) FOR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLANS

TYPE 2 (18" HIGH WITH WIRE MESH):

TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS.

TYPE 3 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED.

TYPE 4 MAY BE USED IN DITCHES AND SMALLER CHANNELS TO FORM AN EROSION

GENERAL NOTES

- 1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND / OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
- 5. MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF
- 7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE
- 9. SACK GABIONS SHOULD BE STAKED DOWN WITH 3 /4" DIA. REBAR STAKES.
- 11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY

JANUARY 2005

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2

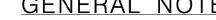
__% SUBMITTAL PROJECT NO.: DRWN. BY: V. VASQUEZ DSGN. BY:_ SHEET NO.:___OF_ CHKD. BY:

DIKE OR SWALE OUTLETS. THIS TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION OR AS DIRECTED BY THE ENGINEER.

TYPE 3 (36" HIGH WITH WIRE MESH):

TYPE 4 (SACK GABIONS):

CONTROL DAM.



- 2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
- 3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
- 4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER.
- EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
- 6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND.
- DIMENSIONS SHOWN ON THE PLANS.
- 8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT AND SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE, THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
- 10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.).
- THE ENGINEER.

CITY OF SAN ANTONIO

JASON R. LINK 100% CONSTRUCTION DOCUMENTS

PUBLIC WORKS

0

Kimley

Project No.: 068710058 10/25/2024 Issued:

Drawn By: NATE W.

Checked By: JASON L Sheet Title **EROSION CONTROL DETAILS**

(SHEET 2 OF 2) Sheet Number

Project Page Number



ATTACHMENT E - REQUEST TO TEMPORARY SEAL A FEATURE (NOT APPLICABLE)

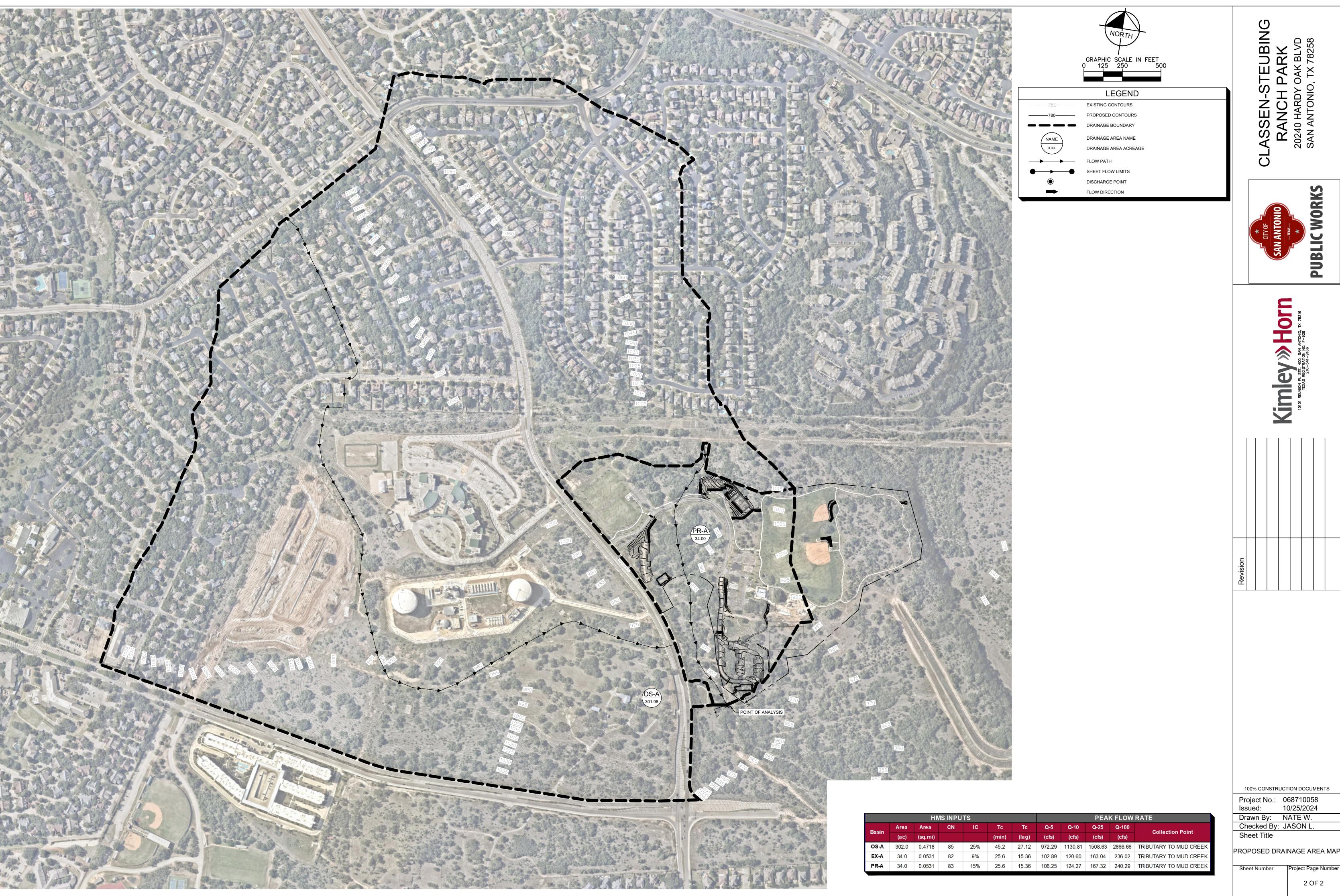


ATTACHMENT F - STRUCTURAL PRACTICES

Sediment will be controlled through the use of silt fences, rock filter dams, and rock berms.

Kimley » Horn

ATTACHMENT G - DRAINAGE AREA MAP



PUBLIC WORKS

2 OF 2

Kimley»Horn

ATTACHMENT H - TEMPORARY SEDIMENT POND(S) PLANS AND CALCULATIONS (NOT APPLICABLE)



ATTACHMENT I - INSPECTION AND MAINTENANCE FOR BMPS

BMPs shall be maintained and inspected for damage throughout the construction process. BMPs shall be inspected at least weekly and follow an established inspection schedule.



ATTACHMENT J - SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Schedule of Interim and Permanent Soil Stabilization

Construction practices shall disturb the minimal amount of existing ground cover as required for land clearing, grading, and construction activity for the shortest amount of time possible to minimize the potential of erosion and sedimentation from the site. Existing vegetation shall be maintained and left in place until it is necessary to disturb for construction activity. For this project the following stabilization practices will be implemented:

1. Hydraulic Mulch and Seeding: Disturbed areas subject to erosion shall be stabilized with hydraulic mulch and/or seeded and watered to provide interim stabilization. For areas that are not to be sodded as per the project landscaping plan, a minimum of 85% vegetative cover will be established to provide permanent stabilization.

Records of the following shall be maintained:

- a. The dates when major grading activities occur;
- b. The dates when construction activities temporarily or permanently cease on a portion of the site; and
- c. The dates when stabilization measures are initiated.

Stabilization measures must be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in the following, must be initiated no more that fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased:

Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practical.

Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of the site.

In arid areas (areas with an average rainfall of 0-10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practical.

Kimley»Horn

SECTION 7: PERMANENT STORMWATER SECTION COVER PAGE

Permanent Stormwater Section

Texas Commission on Environmental Quality

Print Name of Customer/Agent: _____

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:

| Da | nte: |
|-----|---|
| Sig | gnature of Customer/Agent |
| Re | egulated Entity Name: |
| P | ermanent Best Management Practices (BMPs) |
| | rmanent best management practices and measures that will be used during and after nstruction is completed. |
| 1. | Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction. |
| | □ N/A |
| 2. | These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director. |
| | The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site. |

| | A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: |
|----|--|
| | □ N/A |
| 3. | Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion. |
| | □ N/A |
| 4. | Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes. |
| | The site will be used for low density single-family residential development and has 20% or less impervious cover. The site will be used for low density single-family residential development but has more than 20% impervious cover. The site will not be used for low density single-family residential development. |
| 5. | The executive director may waive the requirement for other permanent BMPs for 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. | 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 |

| insp | achment G - Inspection, Maintenance, Repair and Retrofit Plan . A plan for the pection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and asures is attached. The plan includes all of the following: |
|-------------------------------------|--|
| | Prepared and certified by the engineer designing the permanent BMPs and measures Signed by the owner or responsible party Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit A discussion of record keeping procedures |
| ☐ N/A | |
| reco | achment H - Pilot-Scale Field Testing Plan . Pilot studies for BMPs that are not ognized by the Executive Director require prior approval from the TCEQ. A plan for t-scale field testing is attached. |
| ☐ N/A | |
| of tl and and crea by t | chment I -Measures for Minimizing Surface Stream Contamination. A description he measures that will be used to avoid or minimize surface stream contamination changes in the way in which water enters a stream as a result of the construction development is attached. The measures address increased stream flashing, the ation of stronger flows and in-stream velocities, and other in-stream effects caused he regulated activity, which increase erosion that results in water quality radation. |
| ☐ N/A | |
| Respor | nsibility for Maintenance of Permanent BMP(s) |
| - | lity for maintenance of best management practices and measures after in is complete. |
| unti enti owr owr resp | applicant is responsible for maintaining the permanent BMPs after construction if such time as the maintenance obligation is either assumed in writing by another ty having ownership or control of the property (such as without limitation, an ner's association, a new property owner or lessee, a district, or municipality) or the nership of the property is transferred to the entity. Such entity shall then be consible for maintenance until another entity assumes such obligations in writing or nership is transferred. |
| □ N/A | A |
| app mul or a | opy of the transfer of responsibility must be filed with the executive director at the ropriate regional office within 30 days of the transfer if the site is for use as a tiple single-family residential development, a multi-family residential development, non-residential development such as commercial, industrial, institutional, schools, other sites where regulated activities occur. |
| ☐ N/A | |

Kimley»Horn

ATTACHMENT A - 20% OR LESS IMPERVIOUS COVER DECLARATION (NOT APPLICABLE)

Drawn By: NATE W. Checked By: JASON L.

Sheet Title

Sheet Number Project Page Number

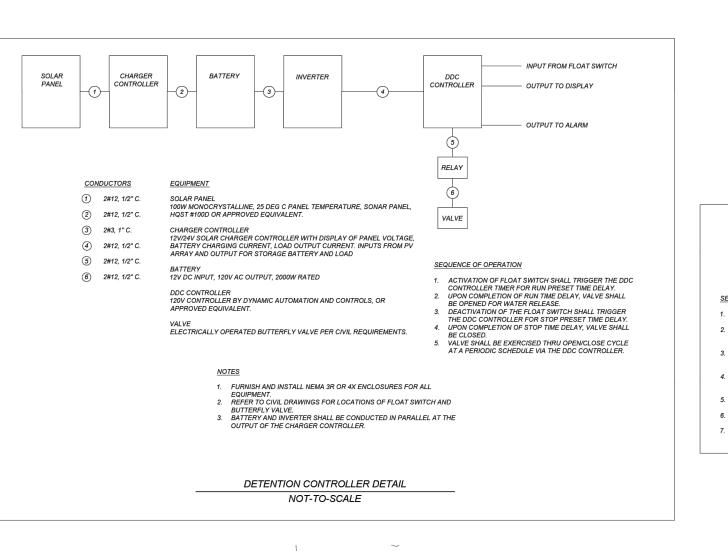


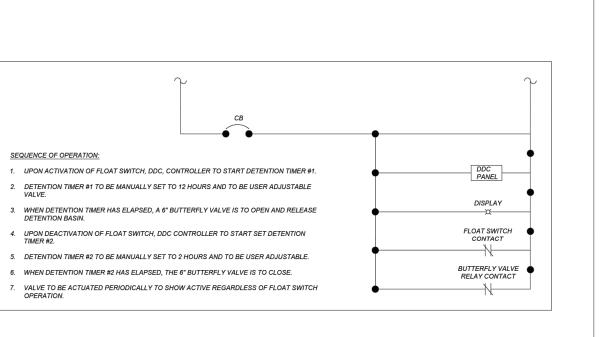
ATTACHMENT B - BMPS FOR UPGRADIENT STORMWATER (NOT APPLICABLE)

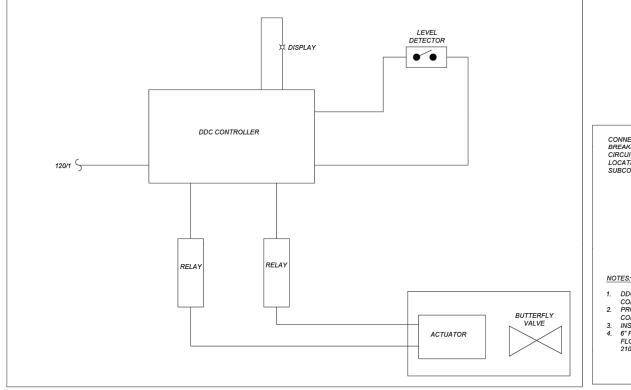


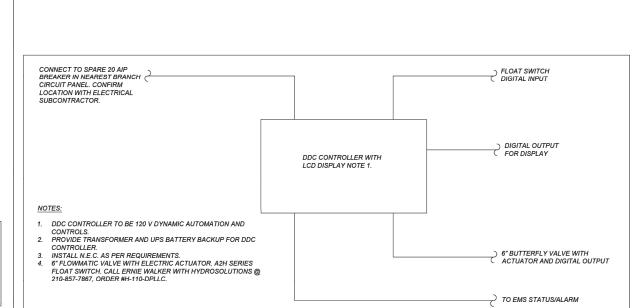
ATTACHMENT C - BMPS FOR ON-SITE STORMWATER

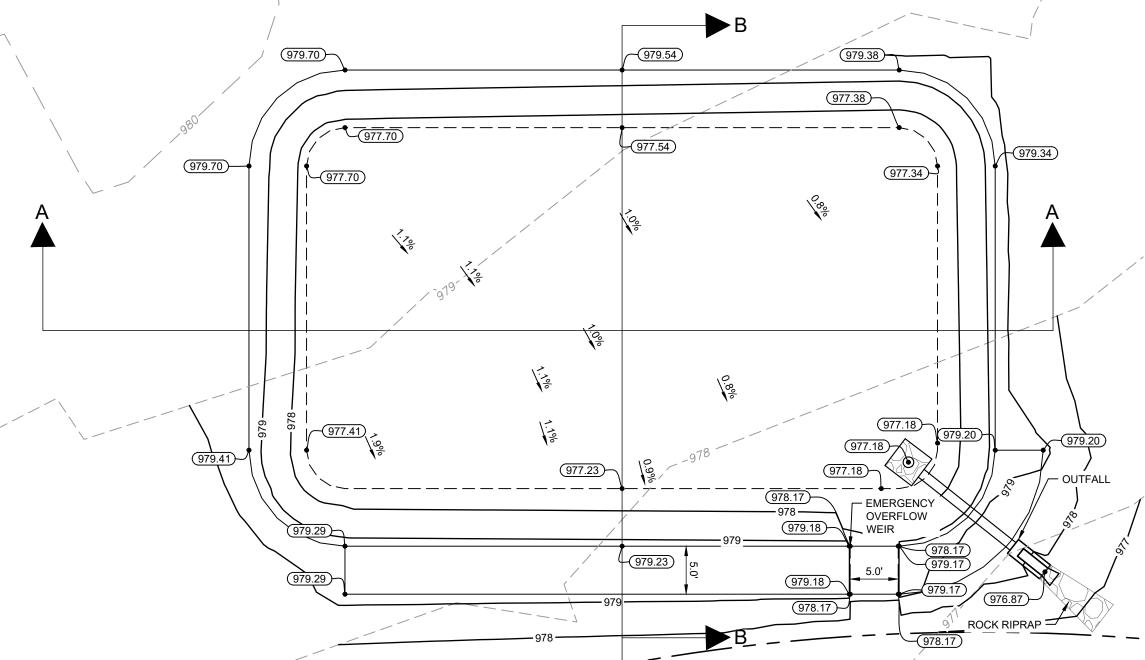
There are three existing permanent BMPs on site. The modification will include proposed impervious cover from additional parking and pavement. There will be two proposed additional batch detention ponds to account for the increase in impervious cover. Please see the following plans and calculations.











WATER POLITITION ABATEMENT PLAN

WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

EDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES - LEGAL DISCLAIMER

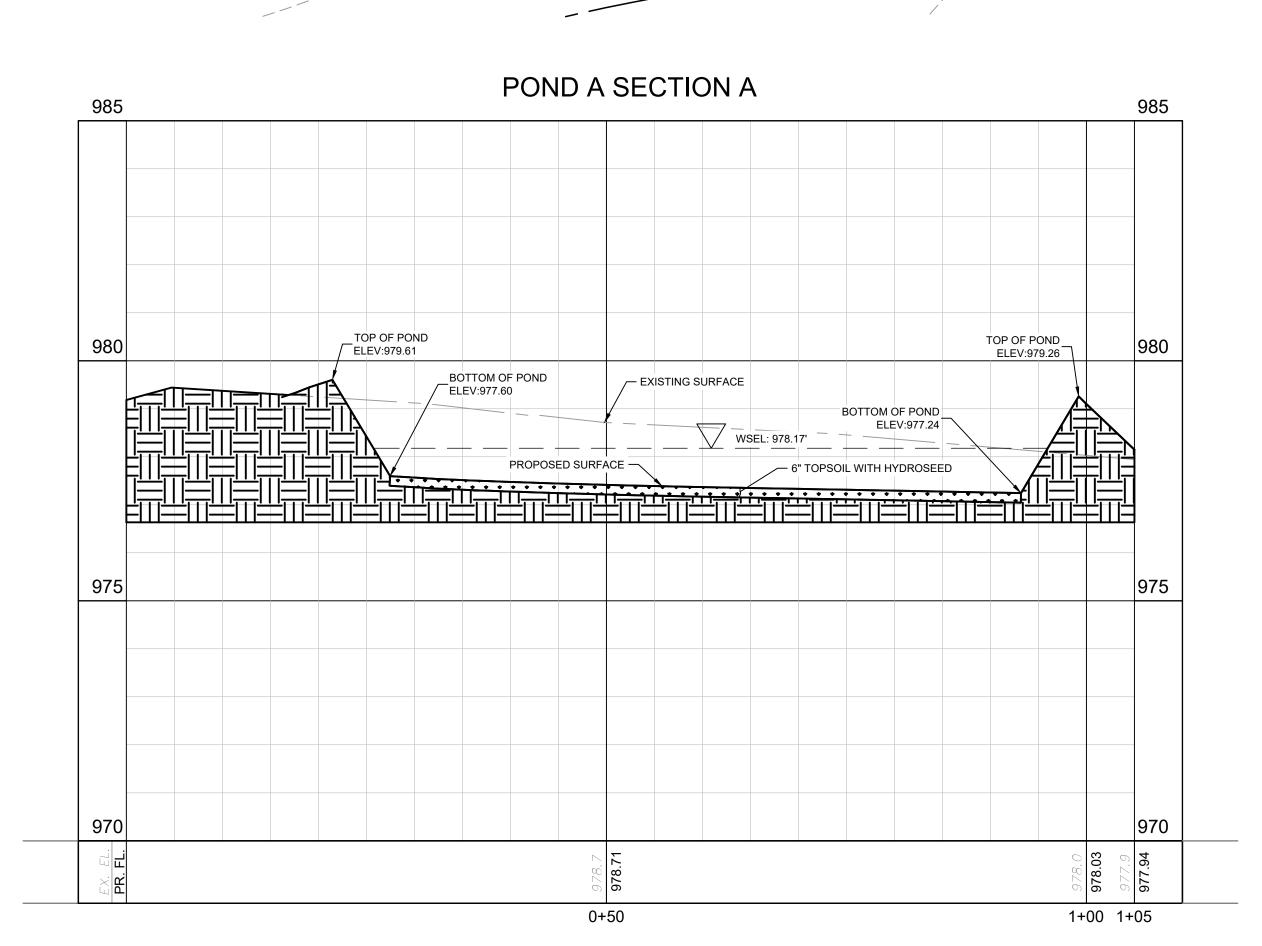
THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY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

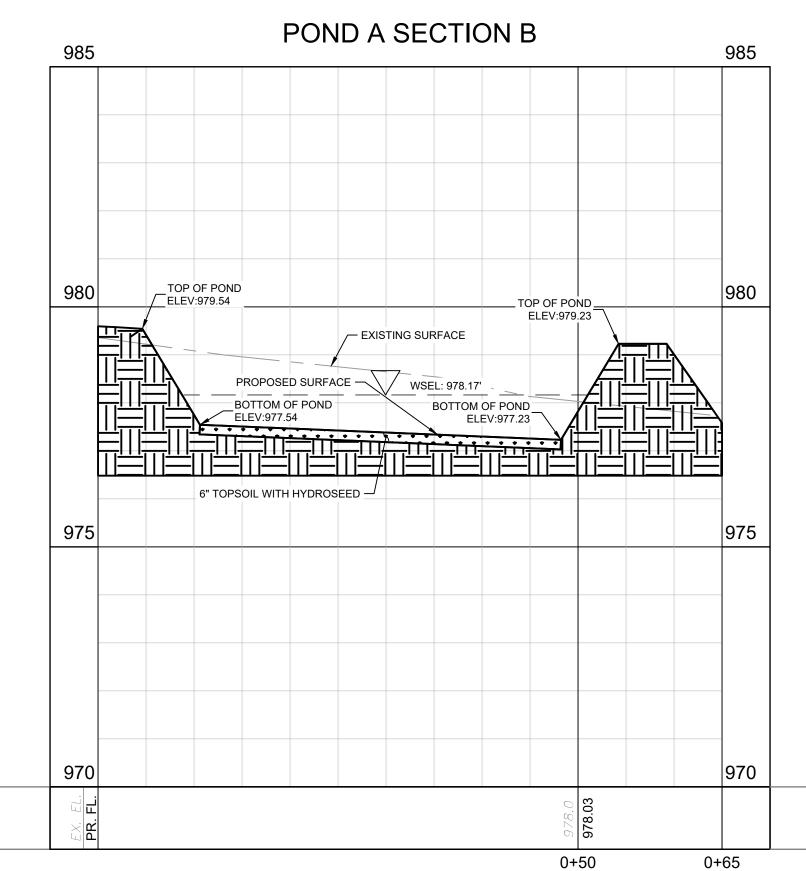
- 1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
- THE NAME OF THE APPROVED PROJECT THE ACTIVITY START DATE; AND
 THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
- 2. ALL CONTRACTORS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

AUSTIN REGIONAL OFFICE

PHONE (512) 339-2929

SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490-3096 FAX (210) 545-4329





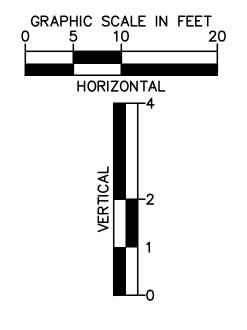
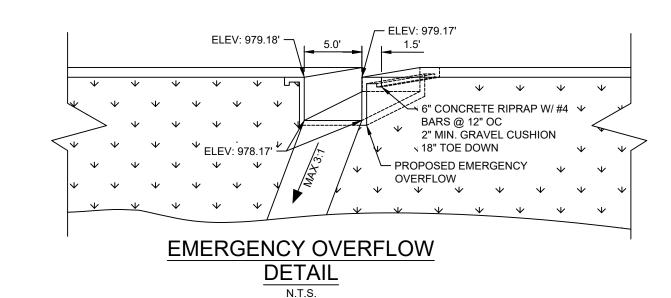
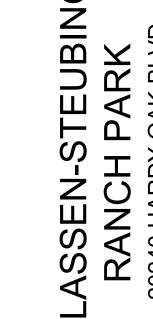


Figure 3-24 Detail of Sedimentation Riser Pipe



EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF





LEGEND

PROPOSED PROPERTY BOUNDARY

PROPOSED STORM DRAIN (>/=12")

EXISTING EDGE OF ASPHALT

PROPOSED ROCK RIPRAP

PROPOSED HEADWALL

EXISTING TREE

STORM NOTES

. REFERENCE STORM SEWER NOTES ON SHEET C6.0 FOR PIPE MATERIAL REQUIREMENTS

CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

1.5" K 1.5" Galvanized Angle Iron Trasi Rack Support set into Concrete Pad

Removable Trash Rack made from Galvanized Welded Wire Fabric. Opening Size: I" X I"

Come of 2"-3" Gravel Surrounding

Galvanized Strap with Anchor Bolt

- Trash Rack Support

Locate Splice near Support Splice with Galvanized "J" Clips

Source: COA

. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.

REFERENCE SHEET C6.0 FOR STORM SEWER DETAILS.

CONTACT ENGINEER IF FIELD CONDITIONS VARY.

Side View of Riser

Top View of Riser (Square Design)

12"—12"—12"—12"—16"—

PROPOSED CONCRETE RIPRAP

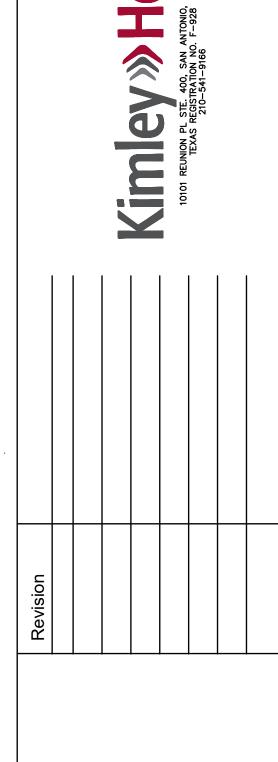
EXISTING PROPERTY LINE

PROPOSED EASEMENT

EXISTING EASEMENT









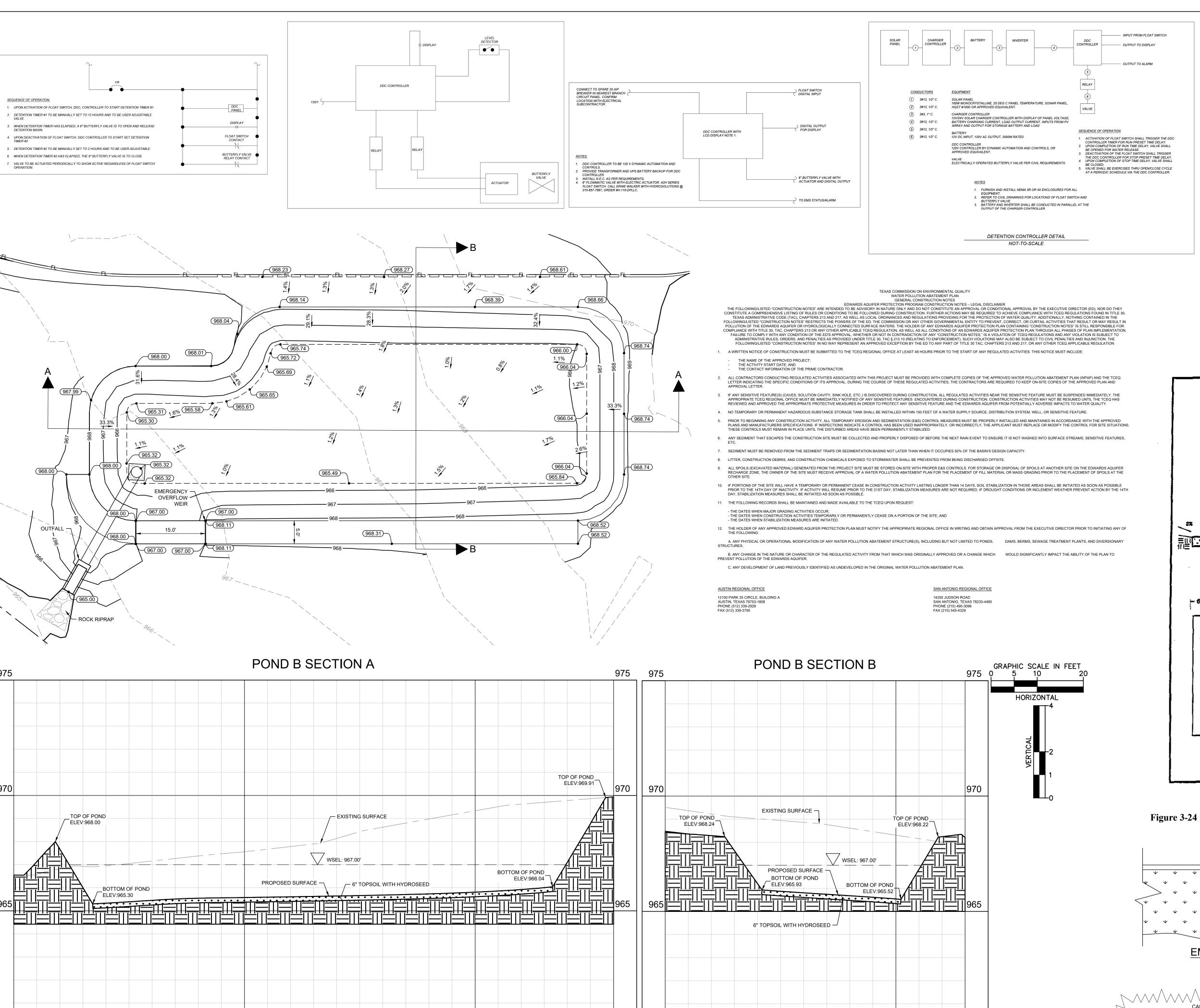
10/25/2024 Drawn By: NATE W. Checked By: JASON L

Sheet Title

WATER QUALITY POND A

Sheet Number

Project Page Number C4.0



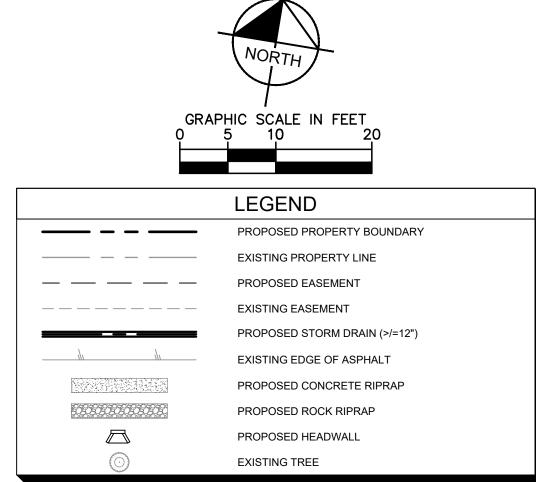
1+30

0+50

0+65

0+50

1+00



UBIN

20

PUBLIC WORKS

0

imley

STORM NOTES

- . ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE. REFERENCE STORM SEWER NOTES ON SHEET C6.0 FOR PIPE MATERIAL REQUIREMENTS
- REFERENCE SHEET C6.0 FOR STORM SEWER DETAILS.
- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.

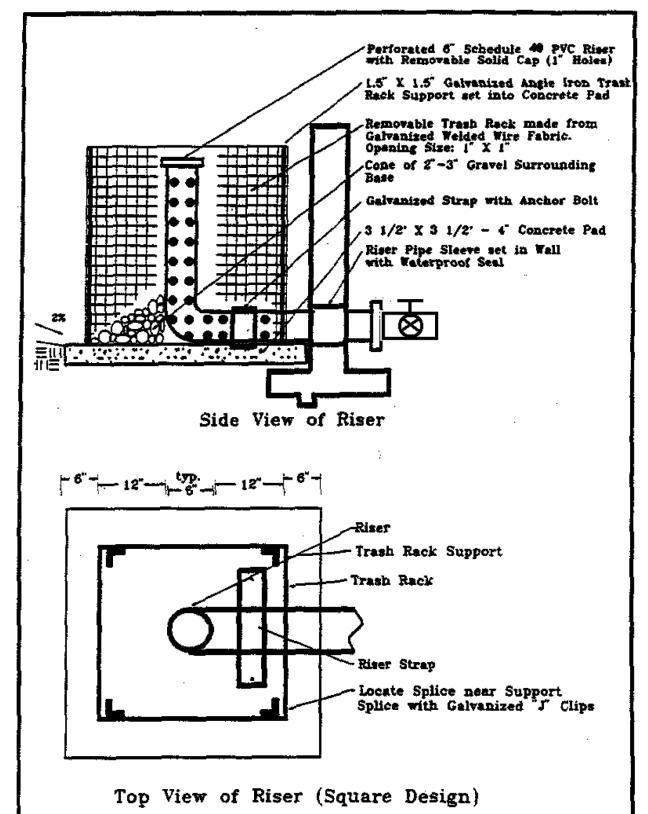
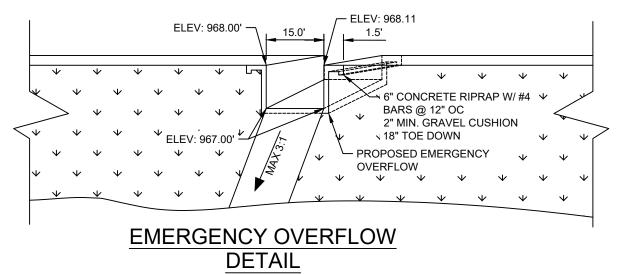


Figure 3-24 Detail of Sedimentation Riser Pipe



EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Source: COA

100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024

Drawn By: NATE W. Checked By: JASON L

WATER QUALITY POND B

Sheet Number Project Page Number

Sheet Title

C4.1

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009



Additional information is provided for cells with a red triangle in the upper right corn Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will

1. The Required Load Reduction for the total project:

where:

Calculations from RG-348

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

 $L_{M TOTAL PROJECT} = Required TSS removal result$

 A_N = Net increase in impervious a

P = Average annual precipitation

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

County = Bexar

Total project area included in plan * = 43.97 acres

Predevelopment impervious area within the limits of the plan * = 3.09 acres

Total post-development impervious area within the limits of the plan* = 5.17 acres

Total post-development impervious cover fraction * = 0.12 P = 30 inches

 $L_{M TOTAL PROJECT} = 1697$ lbs.

Number of drainage basins / outfalls areas leaving the plan area = 12

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

| | • | Dramago Daomy o anany noa 1101 – |
|-------|------|---|
| acres | 0.80 | Total drainage basin/outfall area = |
| acres | 0.00 | Predevelopment impervious area within drainage basin/outfall area = |
| acres | 0.44 | Post-development impervious area within drainage basin/outfall area = |
| | 0.55 | Post-development impervious fraction within drainage basin/outfall area = |
| lbs. | 357 | L _{M THIS BASIN} = |

Drainage Basin/Outfall Area No. =

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Extended Detention
Removal efficiency = 91 percent

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

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

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

A_C = Total On-Site drainage area where:

A_I = Impervious area proposed in

A_P = Pervious area remaining in tl

L_R = TSS Load removed from this

 $A_C =$ 0.80 acres

 $A_I =$ 0.44 acres

 $A_P =$ 0.36 acres

 $L_R =$ 418 lbs

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

Desired $L_{M THIS BASIN} =$ 400 lbs.

> F= 0.96

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

2.80 Rainfall Depth = inches

Post Development Runoff Coefficient = 0.38

> On-site Water Quality Volume = 3126 cubic feet

Calculations from RG-348

0

Off-site area draining to BMP = 0.00 acres

Off-site Impervious cover draining to BMP = 0.00 acres

Impervious fraction of off-site area =

Off-site Runoff Coefficient = 0.00

Off-site Water Quality Volume = 0 cubic feet Storage for Sediment = **625**

Total Capture Volume (required water quality volume(s) x 1.20) = 3751 cubic feet

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

7. Retention/Irrigation System

Designed as Required in RG

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate = 0.1 in/hr

Irrigation area = NA square feet

NA acres

8. Extended Detention Basin System

Designed as Required in RG

Required Water Quality Volume for extended detention basin = 3751 cubic feet

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009



Additional information is provided for cells with a red triangle in the upper right corn Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will

1. The Required Load Reduction for the total project:

where:

Calculations from RG-348

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

L_{M TOTAL PROJECT} = Required TSS removal result

 A_N = Net increase in impervious a

P = Average annual precipitation

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

County = Bexar

Total project area included in plan * = 43.97 acres

Predevelopment impervious area within the limits of the plan * = 3.09 acres

Total post-development impervious area within the limits of the plan* = 5.17 acres

Total post-development impervious cover fraction * = 0.12

P = 30 inches

 $L_{M TOTAL PROJECT} = 1697$ lbs.

Number of drainage basins / outfalls areas leaving the plan area = 12

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

| | 5 | Drainage Basin/Outfall Area No. = |
|-------|------|---|
| acres | 2.70 | Total drainage basin/outfall area = |
| acres | 0.10 | Predevelopment impervious area within drainage basin/outfall area = |
| acres | 1.14 | Post-development impervious area within drainage basin/outfall area = |
| | 0.42 | Post-development impervious fraction within drainage basin/outfall area = |
| lbs. | 849 | $L_{M THIS BASIN} =$ |

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Extended Detention
Removal efficiency = 91 percent

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

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

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

where: $A_C = \text{Total On-Site drainage area}$

A_I = Impervious area proposed in

 A_P = Pervious area remaining in the

L_R = TSS Load removed from this

 $A_C = 3.06$ acres

 $A_{l} = 1.14$ acres

 $A_P = 1.92$ acres

 $L_R = 1105$ lbs

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

Desired $L_{M THIS BASIN} = 849$ lbs.

F = **0.77**

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Rainfall Depth = **0.97** inches

Post Development Runoff Coefficient = **0.29**

On-site Water Quality Volume = 3172 cubic feet

Calculations from RG-348

Off-site area draining to BMP = 0.00 acres
Off-site Impervious cover draining to BMP = 0.00 acres

Impervious fraction of off-site area = **0**

Off-site Runoff Coefficient = **0.00**

Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 634

Total Capture Volume (required water quality volume(s) x 1.20) = 3806 cubic feet
The following sections are used to calculate the required water quality volume(s) for the selected BMF

The values for BMP Types not selected in cell C45 will show NA.

7. Retention/Irrigation System

Designed as Required in RG

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate = 0.1 in/hr

Irrigation area = NA square feet

NA acres

8. Extended Detention Basin System

Designed as Required in RG

Required Water Quality Volume for extended detention basin = 3806 cubic feet



ATTACHMENT D - BMPS FOR SURFACE STREAMS (NOT APPLICABLE)



ATTACHMENT E - REQUEST TO SEAL FEATURES (NOT APPLICABLE)

Kimley » Horn

ATTACHMENT F - CONSTRUCTION PLANS

. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND 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 CONFLICTING

SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED. 2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.

3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS. 4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.

5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS. 6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER

7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW

8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING. 9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING

CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL. 10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE 19. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH

12.IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE. PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO 22.CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE BEGINNING CONSTRUCTION.

14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES. ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, 15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE

ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY. 16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THA $^{ extstyle{T}}$ CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON

17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND LINDERGROUND POWER LINE AND LITH ITY POLE ADJUSTMENTS NEEDED.

OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT. 19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.

PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK. 20.BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK.

THE COST IS INCIDENTAL TO THE PAY ITEM. 21.CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING

TO WORK SETBACKS FROM POWER LINES. 22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO 23.THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS,

GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS. EROSION CONTROL PLANS. SWPPP AND INSPECTION REPORTS. 24.ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR

25.ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES. 26.CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.

27.CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES. 28.ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC....) ARE FOR PRESENTATION PURPOSES 4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR. IMPLEMENTING THE DEMOLITION PLAN: 29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCEA. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE

30.REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS. 31. THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE STARTING ANY WORK ON THE SITE.

SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY. BASED ON THE FINAL ARCHITECTURAL FOOTPRINT. CIVIL DIMENSION CONTROL PLAN. SURVEY BOUNDARY AND/OR PLAT. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY 32.ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING

SUBSEQUENT ADDENDA 33.CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR

TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING. 34.ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING 35.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE

WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 36.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 5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF 13.EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. 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.

37.ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BET. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR. 38.THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT

39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS INCLUDING BUT NOT LIMITED TO: FENCES WALLS SIGNS PAVEMENT CURBS UTILITIES SIDEWALKS GRASS TREES LANDSCAPING, AND IRRIGATION SYSTEMS, ETC.... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER

INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT. 41.THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION. 42.CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING CONTRACTOR AT NO ADDITIONAL EXPENSE.

DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES. 43.THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH REQUIREMENTS. OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

44.THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER. 45.SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

46.THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND THE RECEIVING LANDOWNER'S APPROVAL TO DO SO. TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS

47.SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS. 48.CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.

49.LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES. 50.ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' 51.TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.

ACTUAL FINISHED GRADES AT THE TIME OF PAVING. 53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.

54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO 21. ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING THE START OF CONSTRUCTION. AND THEN THE IMPLEMENTATION OF THE PLAN 55.CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM

56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS 23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. CONTRACTOR 18. THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE. 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS

POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000" 3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE 4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE

5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION 27. CONTRACTOR SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO SERVICE. CONTRACTOR CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE

6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE. 7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.

8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED 9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING. 10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND

MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT

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

ALL TIMES FOR ALL INGRESS/EGRESS.

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 33.NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE 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.

QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER. 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 BOOKLET IF APPLICABLE, TO VERIFY 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

15.SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND 3. RETAINING WALL DESIGN SHALL BE PROVIDED BY OTHERS AND SHALL FIT IN THE WALL ZONE OR LOCATION SHOWN ON THESE PLANS. 16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A

WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT

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. 11.CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL EDITION), INCLUDING ALL ADDENDA. 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 4. ALL PUBLIC PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.

MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES. 13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION. 23. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS

PAVEMENT, OR A UNIFORM PERENNIAL VEGETATIVE COVER. 24.AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

 CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS. POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000. 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) RECEIVING DISCHARGE FROM THE SITE. APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).

PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED 5. ALL CONTRACTORS AND SUBCONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTORS AND SUBCONTRACTORS AND SUBCONTRA OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR 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 SOIL 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 20.ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT. 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. 23.CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED. AND REMOVED FROM THE SITE. 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

RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES. 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.

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

c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER. d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE

FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES 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 OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER. FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC.....) AND TO CONFIRM ITS FINAL POSITION ON THE SITE 7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION. 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,

> 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 9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER SHALL BE ANY DISCREPANCIES

CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY. 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 TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. 4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE

6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN. OPERATIONS THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE FLEVATION 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 FARTHWORK 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. 40.ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, 9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SPECIFICATIONS. SUBSEQUENT ADDENDA

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

SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO12.BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY THE WATER AND WASTEWATER IMPROVEMENTS. LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS GRADE CONTROL POINTS RELATED TO EARTHWORK 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 APPLICABLE CODES AND INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER 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 EXISTING9. EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.

16.NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS. REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED. 17. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF. 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 PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT. ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT 52.CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH20.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. 22.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.

SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, CONDITIONING, AND PREPARATION WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. 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 20.CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO

25.CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 217.53. 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.

FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.

NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. 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

29. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND MARKER DECALS SHALL BE LABELED "CAUTION - WATER LINE", OR "CAUTION - SEWER LINE". DETECTABLE WIRING AND MARKING TAPE PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH THE TREE SHALL COMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THE WATER AND WASTEWATER PIPE. 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 CONFIRMED HAVE CAST IRON COVERS FLUSH WITH FINISHED GRADE.

IN WRITING THAT ONE IS NOT NEEDED FOR THE TREE(S) 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 PAVEMENT 12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE

INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED. 35.CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE CIVIL ENGINEER IS OBTAINED. 30.THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

RETAINING WALLS SHOWN ARE FOR SITE GRADING PURPOSES ONLY, AND INCLUDE ONLY LOCATION AND SURFACE SPOT ELEVATIONS AT THE TOP AND BOTTOM OF THE WALL. . 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 STRUCTURAL DESIGN AND PERMITTING OF RETAINING WALLS, RAILINGS, AND OTHER WALL SAFETY DEVICES SHALL BE PERFORMED BY 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 ADJACENT RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE BUILDING FOUNDATIONS, UTILITIES, PROPERTY LINES AND OTHER CONSTRUCTABILITY NOTES. RETAINING WALL ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS.

I. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY STANDARD DETAILS AND

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 CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION/DETAIL SHALL BE FOLLOWED. ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM. 20.WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED 2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. 3. ALL FIRELANE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THAN THOSE IN THE GEOTECHNICAL REPORT, THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED. 5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL 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 PAVING SUBGRADE, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 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.

> 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 STANDARDS. 10. ALL ACCESSIBLE RAMPS. CURB RAMPS. STRIPING. AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS. LATEST 11. ANY COMPONENTS OF THE PROJECT SUBJECT TO RESIDENTIAL USE SHALL ALSO CONFORM TO THE FAIR HOUSING ACT, AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.

8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD

I2. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION, 18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION OF THE STORM WATER POLLUTION OF THE STORM WATER POLLUTION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION OF SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS. 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, AND SHALL BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND GEOTECHNICAL STANDARDS. 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 WORK. 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 SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED. 24.BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSIBLE FOR PERFORMING ITS OWN SITE CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING 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 PAVEMENT TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY 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 INSTALLATION OF THE STORM SEWER 3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. 4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION 5. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN

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 PLUMBING CODE. 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 HAVE A CONCRETE COLLAR AND BE GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT.

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 ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT 12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES.

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 ORTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY. 17. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

WATER AND WASTEWATER

CLASS III RCP OR OTHER APPROVED MATERIAL

ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND 2. CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWATER 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 OF ALL UTILITY SERVICES ENTERING THE BUILDING

OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND 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 INSTALLATION OF 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 APPLICABLE 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 THE

> DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES. 10. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, TCEQ, AND AWWA STANDARDS, TO KEEP 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 AMOUNT OF 14. CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURROUNDING **PROPERTIES** 15. CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF

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 CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

19. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR THRUST BLOCKED TO CITY STANDARDS. JOINTS ARE GREATER THAN 9-FEET FROM THE CROSSING

21.ALL CROSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET FROM WATER, WASTEWATER CONSTRUCTION AND OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT 22.ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 290.44. 23.ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND TCEQ STANDARDS AND

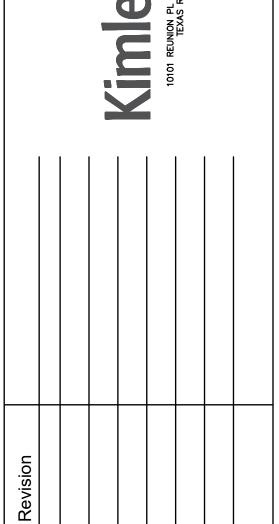
SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING: b. WASTEWATER LINES AND MANHOLES SHALL BE PRESSURE TESTED. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTER COMPLETION OF THESE TESTS, A TELEVISION INSPECTION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A DVD. 24 CONTRACTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF 12" ABOVE WATER AND WASTEWATER LINES

25.DUCTILE IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POLYETHYLENE LINER WRAP THAT IS AT LEAST A SINGLE LAYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED. 26.WATERLINES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED BY THE CITY 27.CONTRACTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES AT ALL CHANGES IN DIRECTION AND 100-FOOT

INTERVALS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS REQUIRED IN PAVEMENT OR SIDEWALKS SHALL 28.CONTRACTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REQUIRED BY THE APPLICABLE PLUMBING CODE (E.G.

FLOOR ELEVATION OF FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER). CONTRACTOR SHALL REVIEW BOTH MEP AND CIVIL PLANS TO CONFIRM WHERE THESE ARE REQUIRED 29.THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.





SCALE = 1:500

MAG NAIL SET IN CURB

N: 13.777.728.43

ELEVATION: 1003.64

E: 2,135,076.01

VICINITY MAP

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54 MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05 **ELEVATION: 1010.28'**

BENCHMARK LIST

HUEBNER ROAD

100% CONSTRUCTION DOCUMENTS Project No.: 068710058 NATE W. Drawn By:

Sheet Title

Sheet Number

Checked By: JASON L GENERAL NOTES

Project Page Number

SITE DESCRIPTION

| PROJECT NAME AND LOCATION: CLASSEN STEUBING RANCH PARK, 20202 HARDY OAK BLVD. SAN ANTONIO, TX 78258 |
|--|
| |
| |
| CONTACT AND PHONE NO.: |
| |
| |
| PROJECT DESCRIPTION: ADDITION OF PARKING, PAVEMENT, WATER QUALITY POND, AND LANDSCAPING TO CLASSEN STEUBING RANCH PARK |
| |
| |
| |
| |
| |
| |
| MAJOR SOIL DISTURBING ACTIVITIES: ADDITION OF PARKING AND WATER QUALITY PONDS |
| |
| |
| |
| |
| |
| |
| TOTAL PROJECT AREA (AOREO) - 40.07.40 |
| TOTAL PROJECT AREA (ACRES): 43.97 AC |
| TOTAL AREA TO BE DISTURBED: 4.63 AC |
| |
| WEIGHTED RUNOFF COEFFICIENT: (AFTER CONSTRUCTION) |
| |
| EXISTING CONDITION OF SOIL, VEGETATIVE COVER AND % OF VEGETATIVE COVER: |
| |
| DESCRIPTION OF WATER DISCHARGED NOT ASSOCIATED WITH CONSTRUCTION: |
| DESCRIPTION OF WATER DISCHARGED NOT ASSOCIATED WITH CONSTRUCTION. |
| |
| NAME OF RECEIVING WATERS: MUD CREEK WATERSHED |
| |
| IDENTIFY STORMWATER DISCHARGE POINTS: |
| IDENTIFY STORMWATER DISCHARGE POINTS: |
| |
| A DESCRIPTION AND TIME FRAME FOR INSTALLATION OF STABILIZATION PRACTICES IN CONJUNCTION WITH CONSTRUCTION: |
| |
| |

EROSION AND SEDIMENTATION CONTROLS

OTHER EROSION AND SEDIMENTATION CONTROLS

HYDROMULCHING

SOIL STABILIZATION PRACTICES:

TEMPORARY SEEDING

PERMANENT PLANTING, SODDING OR SEEDING

MULCHING

SOIL RETENTION BLANKET

BUFFER ZONES

PRESERVATION OF NATURAL RESOURSES

OTHER:

DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DONE WITHIN 21 DAYS.

STRUCTURAL PRACTICES:

GRAVEL FILTRATION BAGS

ROCK BERMS _____DIVERSION, INTERCEPTOR OR PERIMETER DIKES DIVERSION, INTERCEPTOR OR PERIMETER SWALES

__DIVERSION, DIKE AND SWALE COMBINATIONS _PAVED_FLUMES _ROCK BEDDING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)

_TIMBER MATTING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE) _CHANNEL LINERS

_SEDIMENT BASINS ____STORM INLET SEDIMENT TRAP ____STONE OUTLET SEDIMENT STRUCTURES

_SEDIMENT TRAPS

__CURBS AND GUTTERS ____STORM SEWERS ______VELOCITY CONTROL STRUCTURES

_____GEOTEXTILES

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORMWATER MANAGEMENT) ACTIVITIES: THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

A DESCRIPTION OF MAINTENANCE

PROCEDURES FOR CONTROL MEASURES USED:

STORMWATER MANAGEMENT:

A DESCRIPTION OF PERMANENT STORM WATER MANAGEMENT CONTROLS:

TWO WATER QUALITY PONDS AND VEGETATIVE FILTER STRIPS

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGEWAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR EVERY 14 DAYS AS WELL AS AFTER EVERY 1/2" OR MORE OF RAIN (RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE CORRECTED BEFORE THE NEXT SCHEDULED INSPECTION.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, GASOLINE, MOTOR OIL, CLEANING SOLVENTS, ASPHALT PRODUCTS. CHEMICAL ADDITIVES FOR SOIL STABILIZATION OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS AND MEETS REPORTING REQUIREMENTS, THE NATIONAL RESPONSE CENTER SHOULD BE CONTACTED AT 800-424-8802, AND ANY REQUIRED CHANGES MADE TO THE SWPPP. IN THE EVENT OF A LIFE THREATENING SPILL THE SAN ANTONIO FIRE DEPARTMENT SHOULD BE NOTIFIED AS WELL AS THE APPROPRIATE CITY INSPECTORS.

| RY WASTE | | |
|----------|--|--|
| | | |
| | | |
| | | |
| | | |

OFFSITE EXCAVATION SOURCE LOCATION

OFFSITE FILL SOURCE LOCATION

OFFSITE VEHICLE TRACKING

HAUL ROADS DAMPENED FOR DUST CONTROL LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN

EXCESS DIRT ON ROAD TO BE REMOVED DAILY STABILIZED CONSTRUCTION ENTRANCE.

OTHER:

CERTIFICATION THAT SITE DISTURBANCE AND / OR DISCHARGES WILL NOT EFFECT LISTED ENDANGERED SPECIES AND THEIR HABITAT. WHAT METHOD IS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS?

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, BODY OF WATER, STREAMBED OR FLOODPLAIN CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS POSSIBLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTION PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.

JANUARY 2005

CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

STORM WATER POLLUTION PREVENTION PLAN (SWP3) NARRATIVE

% SUBMITTAL PROJECT NO.: DRWN. BY: V. VASQUEZ DSGN. BY:_ CHKD. BY:_ SHEET NO.:___OF__







Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W. Checked By: JASON L.

Sheet Title

EROSION CONTROL NARRATIVE

Project Page Number

Sheet Number

GRAPHIC SCALE IN FEET

LEGEND PROPERTY BOUNDARY EXISTING CONTOUR PROPOSED CONTOUR PROPOSED LIMITS OF DISTURBANCE DIRECTION OF OVERLAND FLOW W/GRADE (SF) SILT FENCE (SEE DETAIL SHEET C1.5) (RB) ROCK BERM (SEE DETAIL SHEET C1.5) CE) CONSTRUCTION EXIT (SEE DETAIL SHEET C1.4) PERMANENT STABILIZATION (RF) ROCK FILTER DAM (SEE DETAIL SHEET C1.4) (IP) INLET PROTECTION EXISTING TREE TO REMAIN, REF. LANDSCAPE/TREE

NOTES

PRESERVATION PLANS FOR DETAILS

- AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.
- REFERENCE LANDSCAPE PLANS, BY OTHERS, FOR THE TREE PRESERVATION AND

EROSION CONTROL SCHEDULE AND SEQUENCING

| I. | ROUGH GRADING/ DEMOLITION | CONSTRUCTION ENTRANCE/EXIT, TREE PROTECTION, FILTER DAMS AND SILT FENCE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. |
|------|--|--|
| II. | UTILITY INSTALLATION | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. |
| III. | PAVING | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT. |
| IV. | FINAL GRADING/ SOIL STABILIZATION/ LANDSCAPING | ALL TEMPORARY EROSION CONTROL MEASURES TO B REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE CITY OR COUNTY. |

| | SITE DATA | |
|---|-----------|----------------------|
| TOTAL LOT AREA | 43.97 AC | 1,915,333 SF |
| TOTAL AREA DISTURBED * | 3.96 AC | 172,532 SF |
| PAVED AREA | 2.21 AC | 96,071.87 SF |
| ROOFED AREA | 0.07 AC | 3,227 SF |
| NEW LANDSCAPED AREA | 1.75 AC | 76,230 SF |
| * DOES NOT INCLUDE ANY OFF-SITE UPDATE AS NECESSARY DURING C | | REAS - CONTRACTOR TO |

NO SINGLE DRAINAGE AREA EXCEEDS 10 ACRES, THEREFORE SEDIMENTATION BASIN IS NOT REQUIRED.

PERMANENT EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
- A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND BETWEEN THE CURB AND THE RIGHT-OF-WAY LINE.
- B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

BROADCAST SEEDING:

HYDRAULIC SEEDING:

- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.
- FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION. A. FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE
- DURING THE PERIOD OF ESTABLISHMENT AT THE RATE OF 1 POUND PER 1000 SQUARE FEET. B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET.
- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.
- OF 95% WITH 85% GERMINATION. A. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN

FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED

BERMUDA AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY

- ANALYSIS OF 15-15-15 AT THE RATE OF 1.5 POUNDS PER 1000 SQUARE B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET, WITH SOIL TACKIFIER AT
- A RATE OF 1.4 POUNDS PER 1000 SQUARE FEET. C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUP AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE
- WATERING SCHEDULE FOR ONE WEEK. D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST. E. WHEN REQUIRED. NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL

SITE MAPS - SITE SPECIFIC NOTES

- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:
- A. CLEARING AND GRUBBING B. PRELIMINARY GRADING C. UTILITY INSTALLATION
- D. PAVEMENT CONSTRUCTION
- E. BUILDING CONSTRUCTION F. FINAL GRADING AND STABILIZATION
- PENDING GEOTECH REPORT.
- STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND UNDERGROUND PIPE.
- POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.
- VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.
- DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE
- ACCORDING TO COMMUNITY PANEL NO. 48029C0140G, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
- CHANCE FLOODPLAIN." CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
-). CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.

TEMPORARY EROSION CONTROL NOTES

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE
- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

SITE MAP - GENERAL NOTES

- CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
- CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
- 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 LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
- . 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.

SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.



MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54

MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05

ELEVATION: 1010.28' CP 902 MAG NAIL SET IN CURB N: 13.777.728.43

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR

IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO

EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF

ANY DISCREPANCIES ON THE PLANS.

E: 2,135,076.01 ELEVATION: 1003.64





100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

Checked By: JASON L Sheet Title EROSION CONTROL PLAN

(SHEET 1 OF 3)

Project Page Number Sheet Number

PERMANENT EROSION CONTROL NOTES

- ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
- A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND BETWEEN THE CURB AND THE RIGHT-OF-WAY LINE.
- B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

BROADCAST SEEDING:

- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A
- PURITY OF 95% WITH 90% GERMINATION. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET WITH A PURITY
- OF 95% WITH 85% GERMINATION. A. FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT THE RATE OF 1 POUND PER 1000 SQUARE FEET.
- B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET. HYDRAULIC SEEDING:
- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 1 POUND PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A
- PURITY OF 95% WITH 90% GERMINATION. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.
- A. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT THE RATE OF 1.5 POUNDS PER 1000 SQUARE
- B. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET, WITH SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1000 SQUARE FEET
- C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUP AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE
- WATERING SCHEDULE FOR ONE WEEK. D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
- E. WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL.

SITE MAPS - SITE SPECIFIC NOTES

- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:
- A. CLEARING AND GRUBBING
- B. PRELIMINARY GRADING C. UTILITY INSTALLATION D. PAVEMENT CONSTRUCTION
- E. BUILDING CONSTRUCTION F. FINAL GRADING AND STABILIZATION
- PENDING GEOTECH REPORT.
- STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND UNDERGROUND PIPE.
- POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.
- VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.
- DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE
- ACCORDING TO COMMUNITY PANEL NO. 48029C0140G, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
- CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
-). CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR

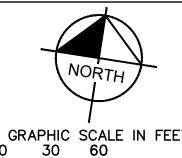
TEMPORARY EROSION CONTROL NOTES

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE
- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

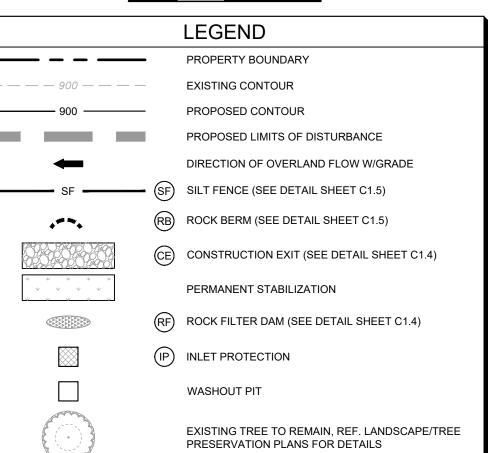
SITE MAP - GENERAL NOTES

- . CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
- CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
- 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 LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
- . 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.

SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.



GRAPHIC SCALE IN FEET



NOTES

- AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.
- REFERENCE LANDSCAPE PLANS, BY OTHERS, FOR THE TREE PRESERVATION AND MITIGATION PLAN.

EROSION CONTROL SCHEDULE AND SEQUENCING

| l. | ROUGH GRADING/ DEMOLITION | CONSTRUCTION ENTRANCE/EXIT, TREE PROTECTION, FILTER DAMS AND SILT FENCE PROTECTION SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. |
|------|---------------------------------------|--|
| II. | UTILITY INSTALLATION | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. |
| III. | PAVING | ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT. |
| IV. | FINAL GRADING/ SOIL STABILIZATION/ | ALL TEMPORARY EROSION CONTROL MEASURES TO BE REMOVED AT THE CONCLUSION OF THE PROJECT AS |

DIRECTED BY THE CITY OR COUNTY.

| , | SITE DATA | |
|------------------------|-----------|--------------|
| TOTAL LOT AREA | 43.97 AC | 1,915,333 SF |
| TOTAL AREA DISTURBED * | 3.96 AC | 172,532 SF |
| PAVED AREA | 2.21 AC | 96,071.87 SF |
| ROOFED AREA | 0.07 AC | 3,227 SF |
| NEW LANDSCAPED AREA | 1.75 AC | 76,230 SF |

STABILIZATION/ LANDSCAPING

UPDATE AS NECESSARY DURING CONSTRUCTION. NO SINGLE DRAINAGE AREA EXCEEDS 10 ACRES, THEREFORE SEDIMENTATION BASIN IS NOT REQUIRED.

BENCHMARK LIST

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54

MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05 ELEVATION: 1010.28'

MAG NAIL SET IN CURB N: 13.777.728.43

igwedge existing underground utilities in the area contractor $\,{}^{'}$

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO

IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

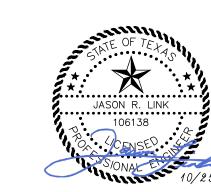
EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF

ANY DISCREPANCIES ON THE PLANS.

E: 2,135,076.01 ELEVATION: 1003.64



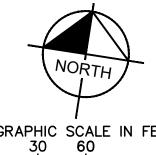


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100% CONSTRUCTION DOCUMENTS Project No.: 068710058 Issued: 10/25/2024

Drawn By: NATE W. Checked By: JASON L. Sheet Title

EROSION CONTROL PLAN (SHEET 2 OF 3)



GRAPHIC SCALE IN FEET

SITE MAPS - SITE SPECIFIC NOTES

A. CLEARING AND GRUBBING

D. PAVEMENT CONSTRUCTION E. BUILDING CONSTRUCTION

F. FINAL GRADING AND STABILIZATION

B. PRELIMINARY GRADING

C. UTILITY INSTALLATION

PENDING GEOTECH REPORT.

CHANCE FLOODPLAIN."

EQUIPMENT STORAGE AREAS.

SITE MAP - GENERAL NOTES

CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE

TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.

STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND

POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES

INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.

DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION

WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR

PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE

PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT.

CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE

ACCORDING TO COMMUNITY PANEL NO. 48029C0140G, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED

BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL

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DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR

CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION,

SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.

EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.

CONNECTED TO A MUNICIPAL SEWER SYSTEM.

TEMPORARY EROSION CONTROL NOTES

TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE

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MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER

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 UNTI FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO

REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION

. 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

. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM

THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND

THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN

ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION

INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION

REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER,

D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN

WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL.

SPOTS LARGER THAN 16 SQUARE FEET EXIST.

AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE

IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.

CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.

. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND

CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO

VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.

THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:

LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE, ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED

LEGEND PROPERTY BOUNDARY EXISTING CONTOUR PROPOSED CONTOUR PROPOSED LIMITS OF DISTURBANCE DIRECTION OF OVERLAND FLOW W/GRADE (SF) SILT FENCE (SEE DETAIL SHEET C1.5) (RB) ROCK BERM (SEE DETAIL SHEET C1.5) (CE) CONSTRUCTION EXIT (SEE DETAIL SHEET C1.4) PERMANENT STABILIZATION (RF) ROCK FILTER DAM (SEE DETAIL SHEET C1.4) (IP) INLET PROTECTION WASHOUT PIT

EXISTING TREE TO REMAIN, REF. LANDSCAPE/TREE

PRESERVATION PLANS FOR DETAILS

NOTES

- AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.
- REFERENCE LANDSCAPE PLANS, BY OTHERS, FOR THE TREE PRESERVATION AND MITIGATION PLAN.

EROSION CONTROL SCHEDULE AND SEQUENCING

ROUGH GRADING/ CONSTRUCTION ENTRANCE/EXIT, TREE PROTECTION, FILTER DAMS AND SILT FENCE PROTECTION SHALL BE DEMOLITION INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING, AS NEEDED. UTILITY INSTALLATION ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING UTILITY INSTALLATION. ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED AS NECESSARY DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.

ALL TEMPORARY EROSION CONTROL MEASURES TO BE FINAL GRADING/ SOIL STABILIZATION/ REMOVED AT THE CONCLUSION OF THE PROJECT AS DIRECTED BY THE CITY OR COUNTY. LANDSCAPING

SITE DATA TOTAL LOT AREA 43.97 AC 1,915,333 SF 172,532 SF 3.96 AC TOTAL AREA DISTURBED * 96,071.87 SF 2.21 AC PAVED AREA 0.07 AC 3,227 SF ROOFED AREA 1.75 AC 76,230 SF NEW LANDSCAPED AREA

UPDATE AS NECESSARY DURING CONSTRUCTION. NO SINGLE DRAINAGE AREA EXCEEDS 10 ACRES, THEREFORE SEDIMENTATION BASIN IS

DOES NOT INCLUDE ANY OFF-SITE DISPOSAL OR BORROW AREAS - CONTRACTOR TO

NOT REQUIRED.

BENCHMARK LIST

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85

CP 902



100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE \overline{W} .

Checked By: JASON L Sheet Title EROSION CONTROL PLAN

(SHEET 3 OF 3)

Sheet Number Project Page Number C1.3

Know what's **below**.

THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A ENVIRONMENTAL SPECIALIST. OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR

IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

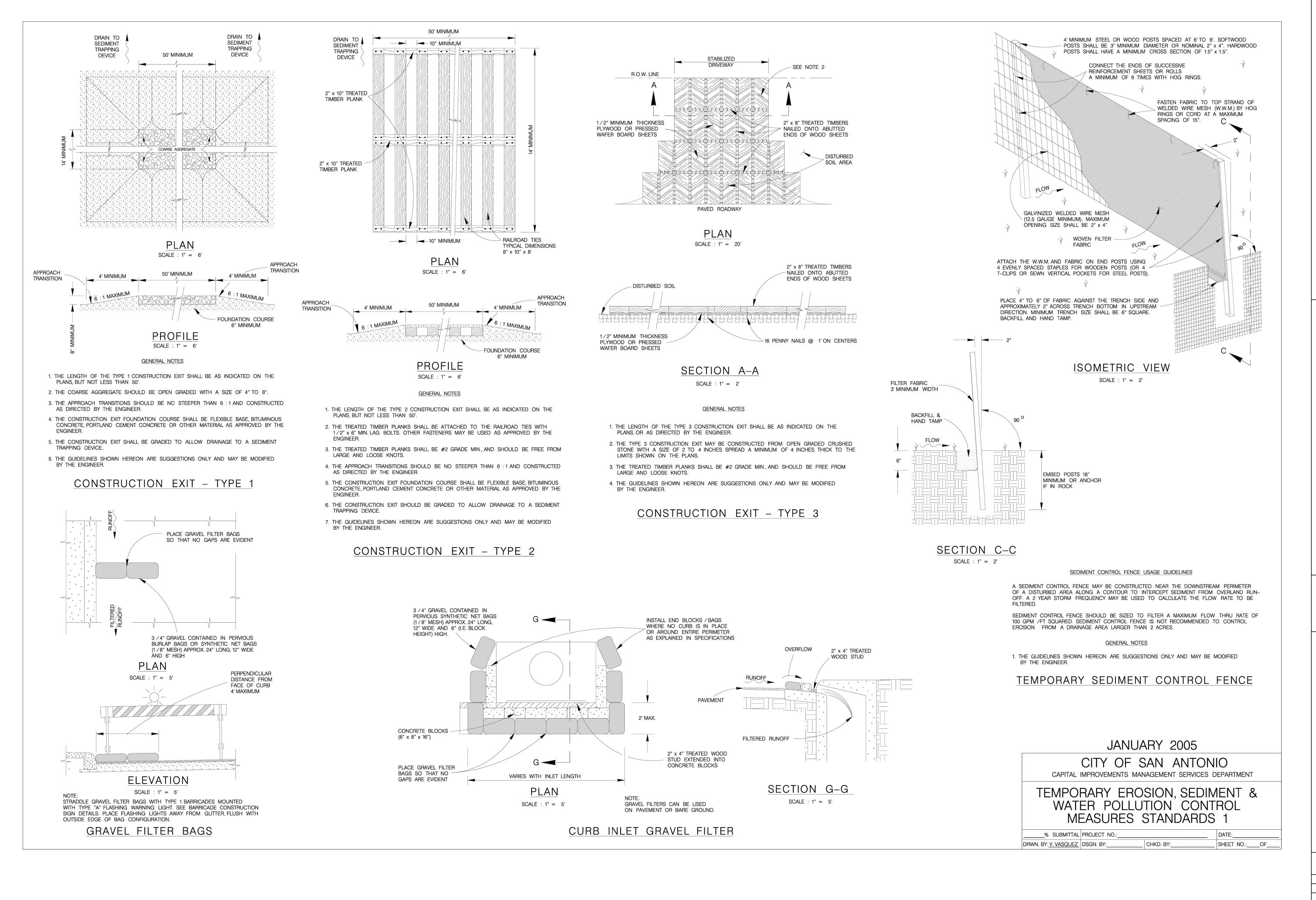
CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

ELEVATION: 995.54

MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05 **ELEVATION: 1010.28'**

MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01 ELEVATION: 1003.64







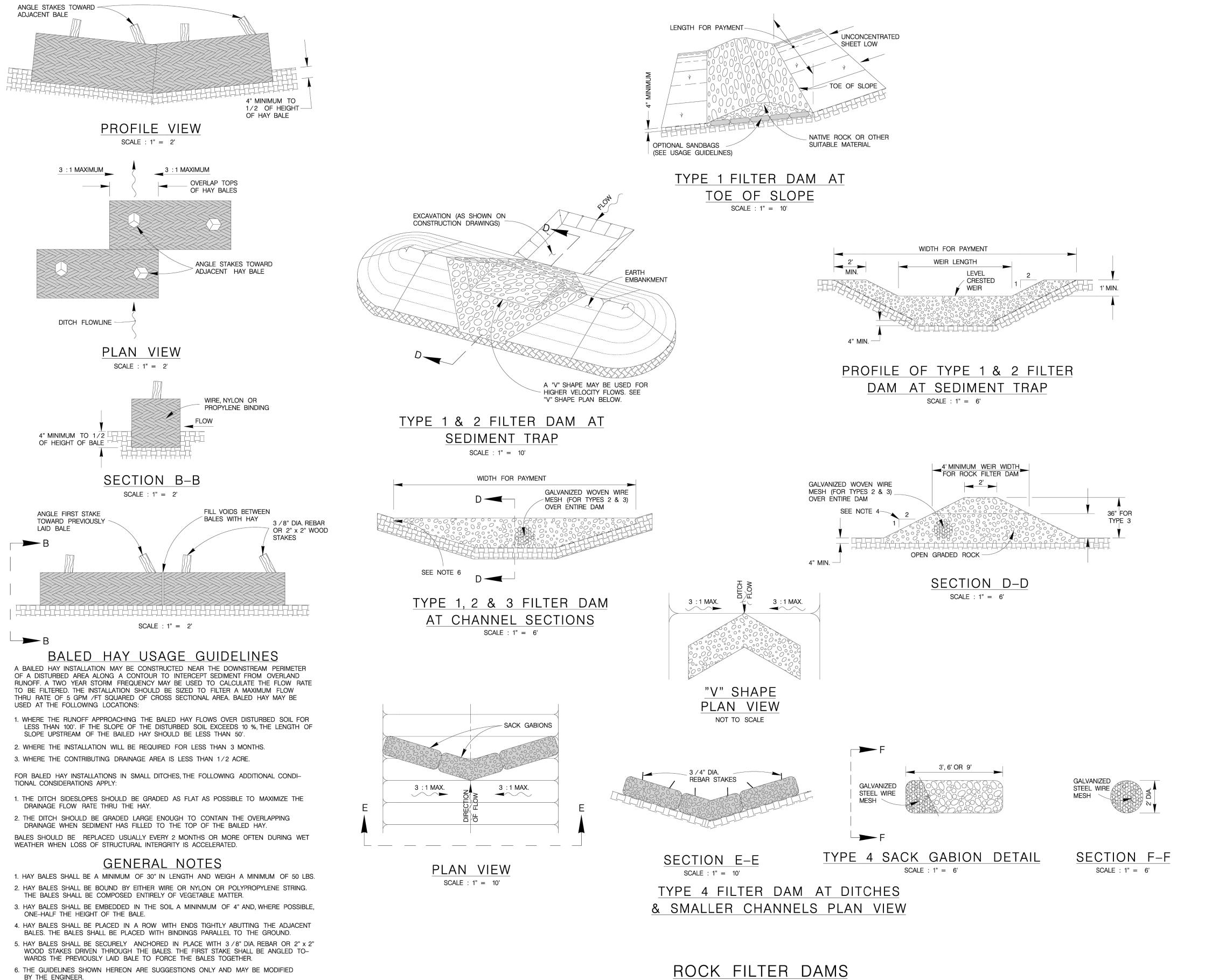
100% CONSTRUCTION DOCUMENTS

Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

Checked By: JASON L Sheet Title

EROSION CONTROL DETAILS (SHEET 1 OF2)

Sheet Number Project Page Number



BALED HAY FOR EROSION CONTROL

ROCK FILTER DAM USAGE GUIDELINES

ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLOAD RUNOFF AND /OR CONCENTRATED FLOW. THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 60 GPM /FT SQUARED OF CROSS SECTIONAL AREA.. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE

TYPE 1 (18" HIGH WITH NO WIRE MESH):

TYPE 1 MAY BE USED AT THE TOE OF SLOPES, AROUND INLETS, IN SMALL DITCHES AND AT FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 MAY NOT BE USED IN CONCEN-TRATED HIGH VELOCITY FLOWS (APPROXIMATELY 8 FT./SEC. OR MORE) IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE EMBEDDED FOUNDATION (4" DEEP MIN.) FOR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLANS

TYPE 2 (18" HIGH WITH WIRE MESH):

TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS.

TYPE 3 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED.

TYPE 4 MAY BE USED IN DITCHES AND SMALLER CHANNELS TO FORM AN EROSION

GENERAL NOTES

- 1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND / OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
- 5. MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF
- 7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE
- 9. SACK GABIONS SHOULD BE STAKED DOWN WITH 3 /4" DIA. REBAR STAKES.
- 11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY

JANUARY 2005

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2

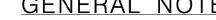
__% SUBMITTAL PROJECT NO.: DRWN. BY: V. VASQUEZ DSGN. BY:_ SHEET NO.:___OF_ CHKD. BY:

DIKE OR SWALE OUTLETS. THIS TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION OR AS DIRECTED BY THE ENGINEER.

TYPE 3 (36" HIGH WITH WIRE MESH):

TYPE 4 (SACK GABIONS):

CONTROL DAM.



- 2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
- 3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
- 4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER.
- EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
- 6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND.
- DIMENSIONS SHOWN ON THE PLANS.
- 8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT AND SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE, THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
- 10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.).
- THE ENGINEER.

CITY OF SAN ANTONIO

JASON R. LINK 100% CONSTRUCTION DOCUMENTS

PUBLIC WORKS

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Kimley

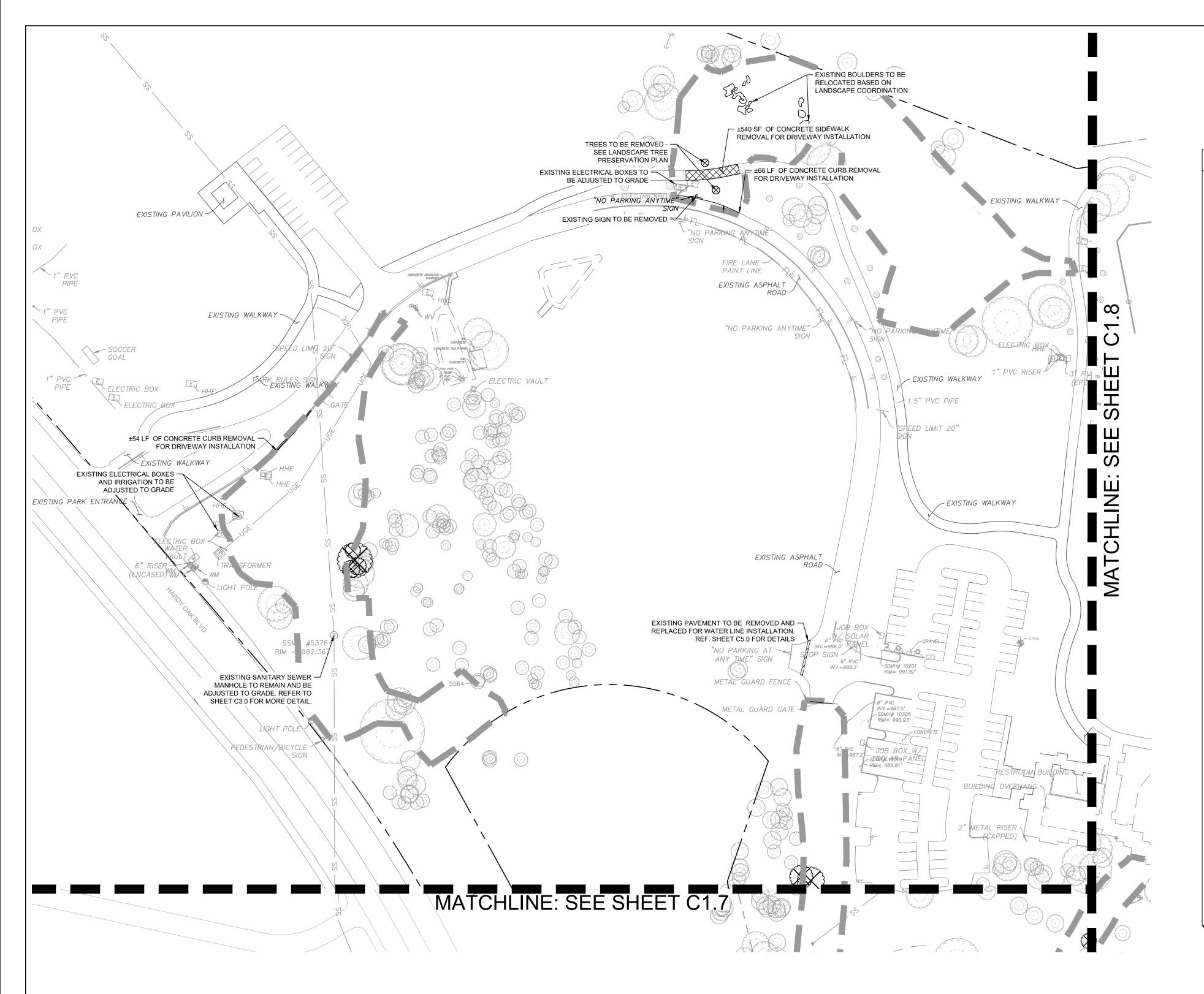
Project No.: 068710058 10/25/2024 Issued:

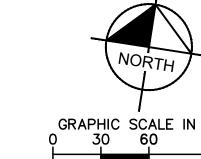
Drawn By: NATE W.

Checked By: JASON L Sheet Title **EROSION CONTROL DETAILS**

(SHEET 2 OF 2) Sheet Number

Project Page Number





DEMOLITION NOTES

- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF SAN ANTONIO AND FRANCHISED UTILITY COMPANIES TO MAINTAIN SERVICES AT ALL TIMES TO NEIGHBORING PROPERTIES. THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS INDICATING HOW THE WASTE FROM THE SITE HAS BEEN HANDLED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT. THE SITE, AFTER DEMOLITION SHALL BE GRADED TO ELIMINATE DEPRESSIONS, HOLES, BERMS, DIRT PILES, ETC. THE SITE IS TO BE GRADED UNTIL RELATIVELY SMOOTH AND ATTRACTIVE IN APPEARANCE PRIOR TO STABILIZATION OF EARTH. ANY FILL MATERIAL/FILL AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT A MOISTURE AT, OR ABOVE, OPTIMUM MOISTURE CONTENT IN MAXIMUM 8" LIFTS. CONTRACTOR SHALL PROVIDE PROOF IN THE FORM OF LAB TEST KITS THAT THIS HAS BEEN ACHIEVED.
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- ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE THEY COMMENCE ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTORS HALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 5. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- 6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS
- 7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DEVICES FOR ANY STREET WORK.
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- 4. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS. SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE
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16. FILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECH REPORT.

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SMALL AN AREA AS PRACTICABLE AND THE LOCATION OF ANY STOCKPILE SHALL BE

LEGEND

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LIMITS OF DISTURBANCE

EXISTING EDGE OF ASPHALT

EXISTING OVERHEAD ELECTRIC TO REMAIN

EXISTING SANITARY LINE TO REMAIN

EXISTING WATER LINE TO REMAIN

EXISTING GAS LINE TO REMAIN

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BENCHMARK

EXISTING SIGN

EXISTING SANITARY SEWER MANHOLE

EXISTING FIRE HYDRANT
EXISTING CABLE PEDESTAL

EXISTING GUY WIRE

PLAN FOR DETAILS

EXISTING WATER VALVE

EXISTING POWER POLE

EXISTING TREE TO BE REMOVED (SHOWN FOR REFERENCE ONLY). REFER TO TREE PRESERVATION

EXISTING TREE TO REMAIN (SHOWN FOR REFERENCE ONLY). REFER TO TREE PRESERVATION PLAN FOR DETAILS

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 DIAM.

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- 3. 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 RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
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MEANS AND OLITION PLAN.
THE SUBJECT

BENCHMARK LIST

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54

CP 901 MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05 ELEVATION: 1010.28'

CP 902 MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01

ELEVATION: 1003.64

Drawn By: NATE W.
Checked By: JASON L.
Sheet Title

Project No.: 068710058

DEMO PLAN (SHEET 1 OF 3)

100% CONSTRUCTION DOCUMENTS

10/25/2024

Sheet Number Project Page Number

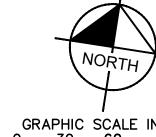
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Know what's below.
Call before you dig.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR
IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND
VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO
EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING
CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF
ANY DISCREPANCIES ON THE PLANS.



GRAPHIC SCALE IN FEET

DEMOLITION NOTES

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DEMO PLAN (SHEET 2 OF 3)

Sheet Title

Issued:

Sheet Number Project Page Number C1.7

100% CONSTRUCTION DOCUMENTS

10/25/2024

Project No.: 068710058

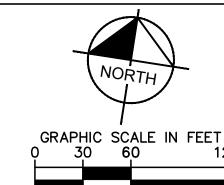
Drawn By: NATE W.

Checked By: JASON L

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LIMITS OF DISTURBANCE EXISTING EDGE OF ASPHALT

EXISTING OVERHEAD ELECTRIC TO REMAIN

EXISTING SANITARY LINE TO REMAIN EXISTING WATER LINE TO REMAIN

EXISTING GAS LINE TO REMAIN

EXISTING CONCRETE SIDEWALK TO BE REMOVED

EXISTING ASPHALT PAVEMENT TO BE REMOVED

EXISTING CONCRETE PAVEMENT TO BE REMOVED BENCHMARK

EXISTING WATER VALVE

EXISTING SIGN

EXISTING SANITARY SEWER MANHOLE

EXISTING FIRE HYDRANT

EXISTING GUY WIRE

EXISTING CABLE PEDESTAL

EXISTING POWER POLE

PLAN FOR DETAILS

EXISTING TREE TO BE REMOVED (SHOWN FOR REFERENCE ONLY). REFER TO TREE PRESERVATION

EXISTING TREE TO REMAIN (SHOWN FOR REFERENCE ONLY). REFER TO TREE PRESERVATION PLAN FOR

ADVISORY NOTES

- KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. KIMLEY-HORN AND ASSOCIATES, INC. 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 HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES. 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
- . THE CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW ANY AVAILABLE REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION

OF THE CONTRACTOR.

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

- 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 RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
- KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE.

BENCHMARK LIST

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54

CP 901 MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05 **ELEVATION: 1010.28'**

CP 902 MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01 ELEVATION: 1003.64

DEMO PLAN (SHEET 3 OF 3)

Issued:

Sheet Number C1.8

Project Page Number

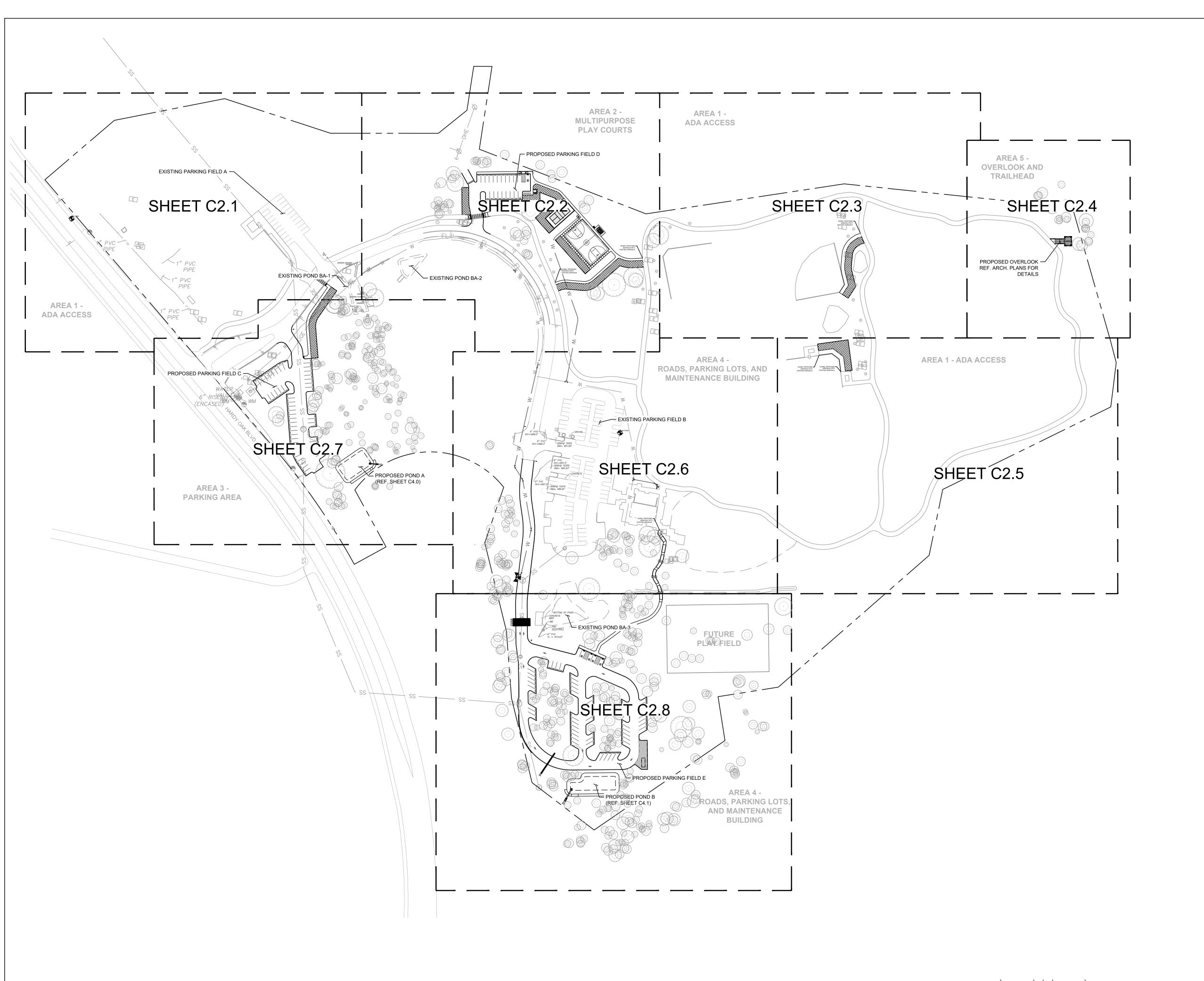
100% CONSTRUCTION DOCUMENTS

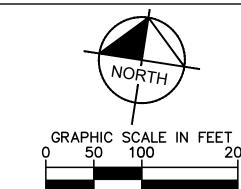
10/25/2024

Project No.: 068710058

Drawn By: NATE W.

Checked By: JASON L Sheet Title Know what's below. Call before you dig.





LEGEND PROPERTY BOUNDARY PROPOSED SAWCUT LINE PROPOSED FIRE LANE PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED FIRE HYDRANT EXISTING SANITARY SEWER MANHOLE EXISTING FIRE HYDRANT EXISTING POWER POLE

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL

PROPOSED VEGETATIVE FILTER STRIP

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- 5. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF SAN ANTONIO STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.

| SITE D | ATA TABLE |
|----------------------------|-------------------------|
| GENERAL SITE DATA | |
| LEGAL DESCRIPTION | NCB 19221 BLK LOT P-26B |
| ZONING | MPCD |
| SITE ACREAGE | 43.97 |
| ADDRESS | 20202 HARDY OAK BLVD |
| PARKING DATA | |
| EXISTING PARKING SPACES | 104 |
| EXISTING ADA SPACES | 4 |
| STANDARD SPACES PROPOSED | 134 |
| PARKING FIELD C | 51 |
| PARKING FIELD D | 21 |
| PARKING FIELD E | 62 |
| ACCESSIBLE SPACES PROPOSED | 5 |
| TOTAL SPACES PROPOSED | 247 |
| BIKE SPACES REQUIRED | 13 |
| BIKE RACKS REQUIRED | 7 |

100% CONSTRUCTION DOCUMENTS

PUBLIC WORKS

PHOF

Kimley

BENCHMARK LIST

CP 900 MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85

ELEVATION: 995.54 MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05

ELEVATION: 1010.28' CP 902 MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01

Drawn By: NATE W. Checked By: JASON L. Sheet Title

Issued:

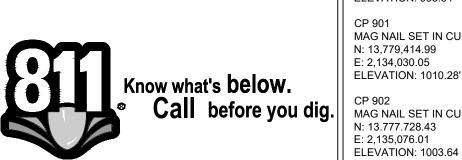
OVERALL SITE PLAN

Project No.: 068710058

10/25/2024

Project Page Number

Sheet Number C2.0

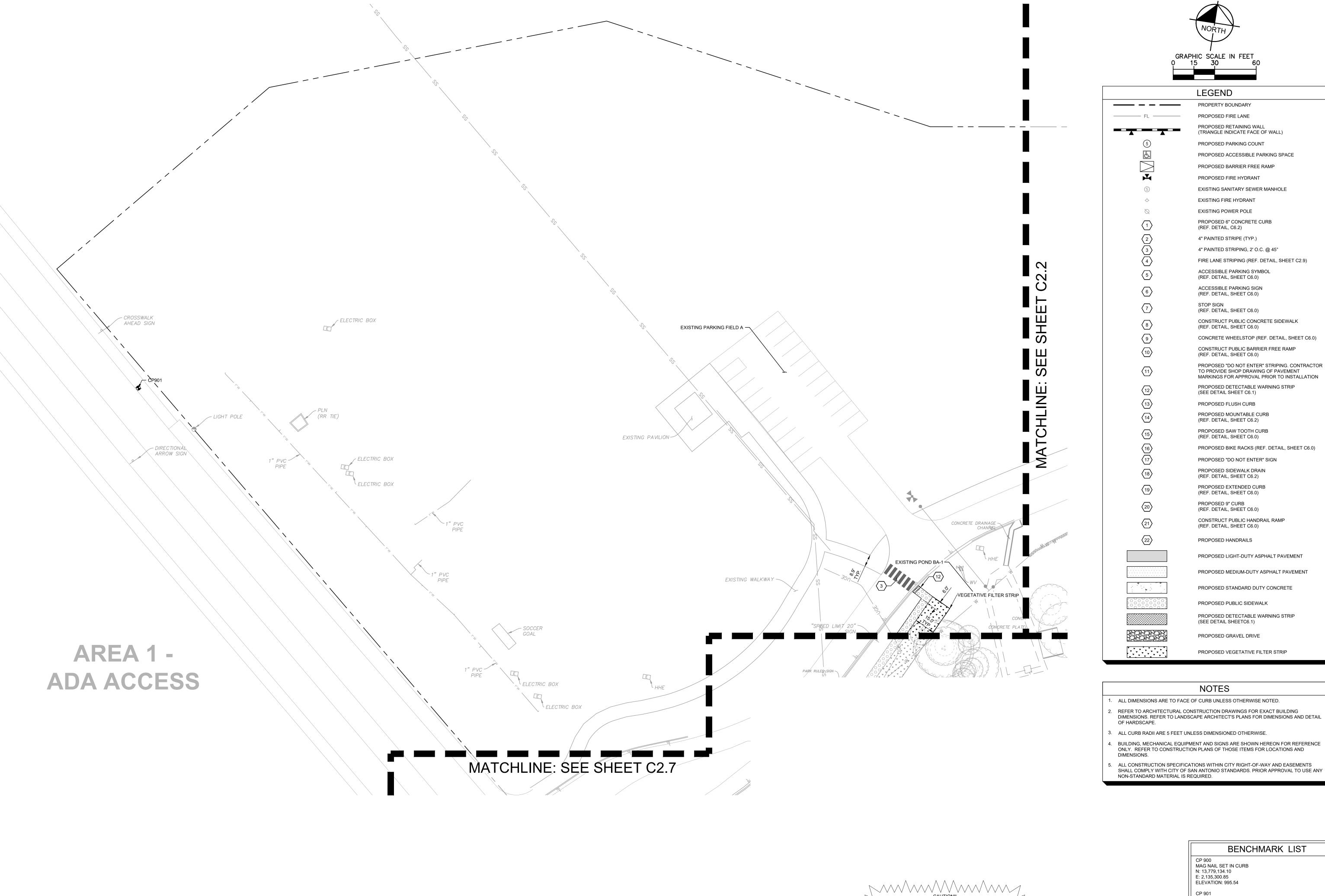


EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR
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- DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL
- ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF SAN ANTONIO STANDARDS. PRIOR APPROVAL TO USE ANY

MAG NAIL SET IN CURB

ELEVATION: 1010.28'

N: 13.777.728.43 E: 2,135,076.01 ELEVATION: 1003.64

MAG NAIL SET IN CURB

N: 13,779,414.99 E: 2,134,030.05



100% CONSTRUCTION DOCUMENTS

Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

Checked By: JASON L. Sheet Title

DIMENSION CONTROL & PAVING PLAN (SHEET 1 OF 8)

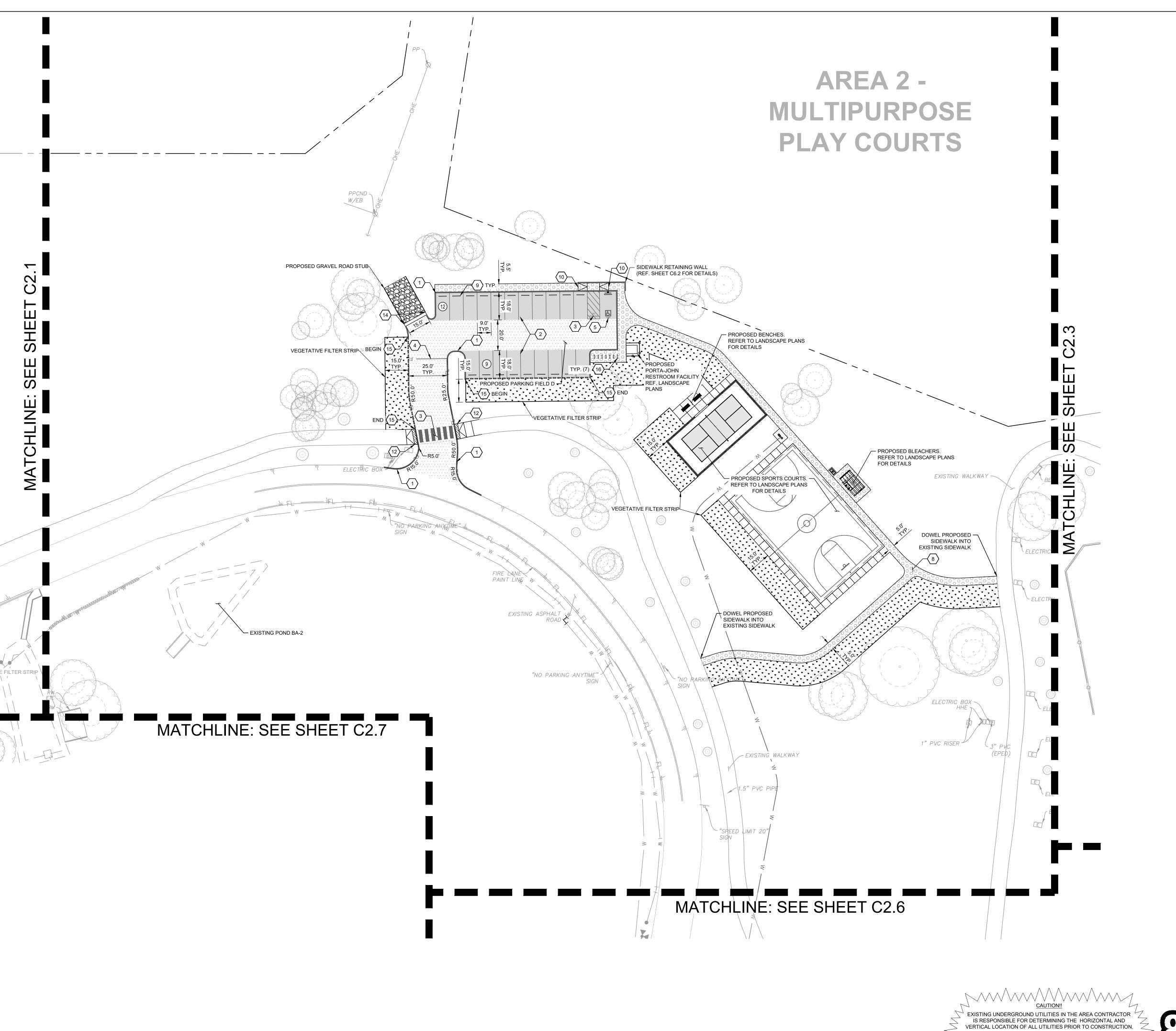
Sheet Number Project Page Number

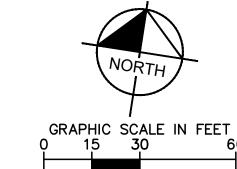
Know what's **below**. Call before you dig.

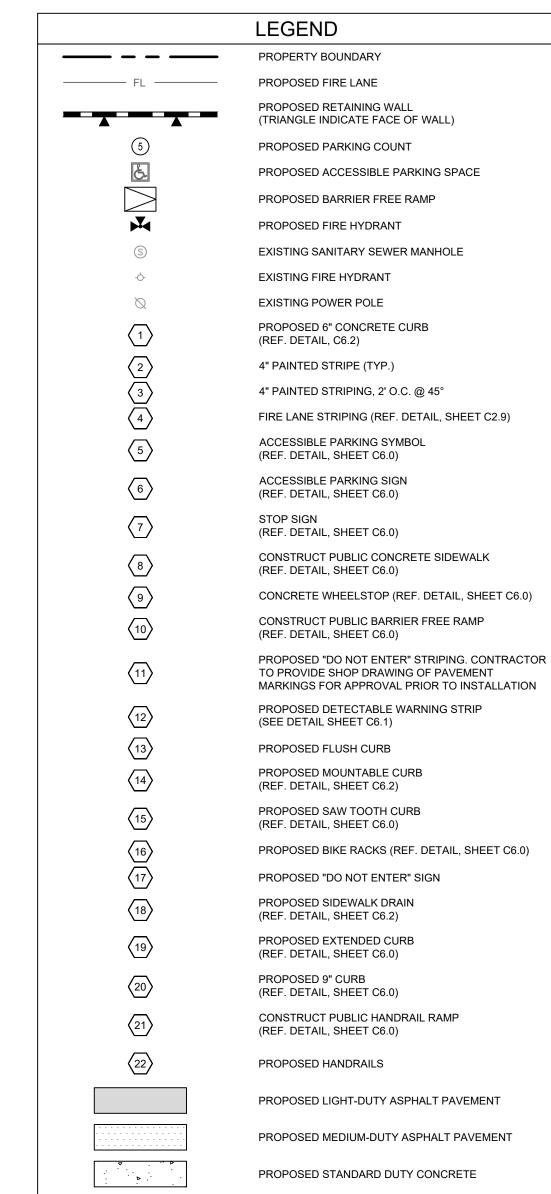
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PROPOSED PUBLIC SIDEWALK

(SEE DETAIL SHEETC6.1)

PROPOSED GRAVEL DRIVE

PROPOSED DETECTABLE WARNING STRIP

PROPOSED VEGETATIVE FILTER STRIP

- . ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
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BENCHMARK LIST

CP 900 MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85

ELEVATION: 995.54 CP 901 MAG NAIL SET IN CURB N: 13,779,414.99

ELEVATION: 1003.64

E: 2,134,030.05 ELEVATION: 1010.28' MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01

100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W. Checked By: JASON L.

Sheet Title DIMENSION CONTROL & PAVING

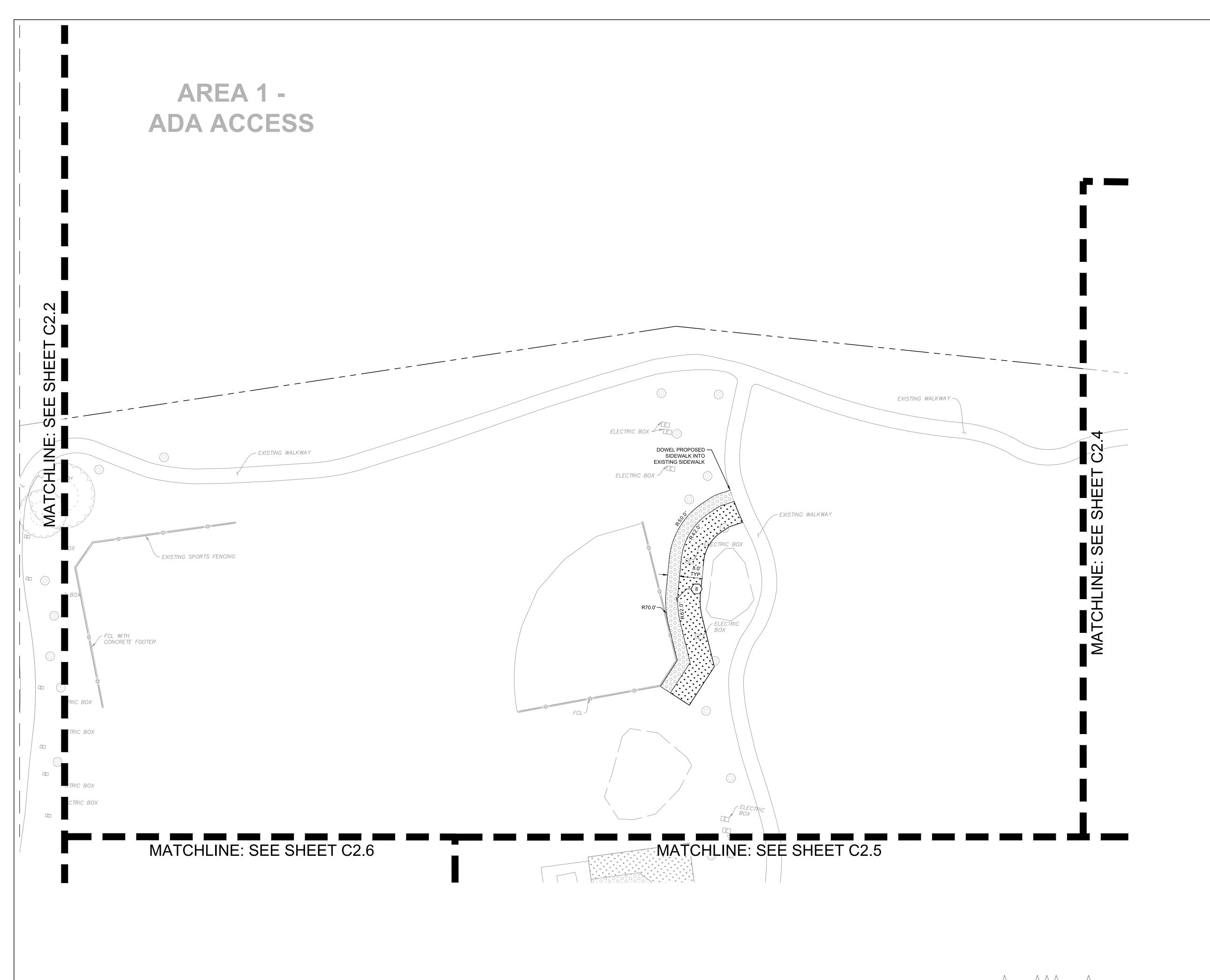
PLAN (SHEET 2 OF 8) Sheet Number Project Page Number

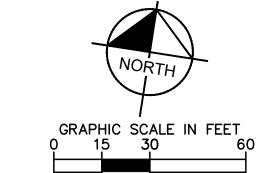
Know what's below. Call before you dig.

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LEGEND PROPERTY BOUNDARY PROPOSED FIRE LANE PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED FIRE HYDRANT EXISTING SANITARY SEWER MANHOLE EXISTING FIRE HYDRANT EXISTING POWER POLE PROPOSED 6" CONCRETE CURB (REF. DETAIL, C6.2) 4" PAINTED STRIPE (TYP.) 4" PAINTED STRIPING, 2' O.C. @ 45° FIRE LANE STRIPING (REF. DETAIL, SHEET C2.9) ACCESSIBLE PARKING SYMBOL (REF. DETAIL, SHEET C6.0) ACCESSIBLE PARKING SIGN (REF. DETAIL, SHEET C6.0) STOP SIGN (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC CONCRETE SIDEWALK (REF. DETAIL, SHEET C6.0) 9 CONCRETE WHEELSTOP (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC BARRIER FREE RAMP (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" STRIPING. CONTRACTOR TO PROVIDE SHOP DRAWING OF PAVEMENT MARKINGS FOR APPROVAL PRIOR TO INSTALLATION PROPOSED DETECTABLE WARNING STRIP (SEE DETAIL SHEET C6.1) PROPOSED FLUSH CURB PROPOSED MOUNTABLE CURB (REF. DETAIL, SHEET C6.2) PROPOSED SAW TOOTH CURB (REF. DETAIL, SHEET C6.0) PROPOSED BIKE RACKS (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" SIGN

NOTES

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PROPOSED SIDEWALK DRAIN (REF. DETAIL, SHEET C6.2) PROPOSED EXTENDED CURB (REF. DETAIL, SHEET C6.0)

CONSTRUCT PUBLIC HANDRAIL RAMP

PROPOSED LIGHT-DUTY ASPHALT PAVEMENT

PROPOSED STANDARD DUTY CONCRETE

PROPOSED DETECTABLE WARNING STRIP

PROPOSED VEGETATIVE FILTER STRIP

PROPOSED PUBLIC SIDEWALK

(SEE DETAIL SHEETC6.1)

PROPOSED GRAVEL DRIVE

PROPOSED MEDIUM-DUTY ASPHALT PAVEMENT

PROPOSED 9" CURB (REF. DETAIL, SHEET C6.0)

(REF. DETAIL, SHEET C6.0)

PROPOSED HANDRAILS

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CP 901 MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05

ELEVATION: 1010.28' MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01

100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

20240 HARI SAN ANTOI

Checked By: JASON L. Sheet Title

DIMENSION CONTROL & PAVING PLAN (SHEET 3 OF 8)

Sheet Number Project Page Number C2.3

Know what's **below**. Call before you dig. ELEVATION: 1003.64

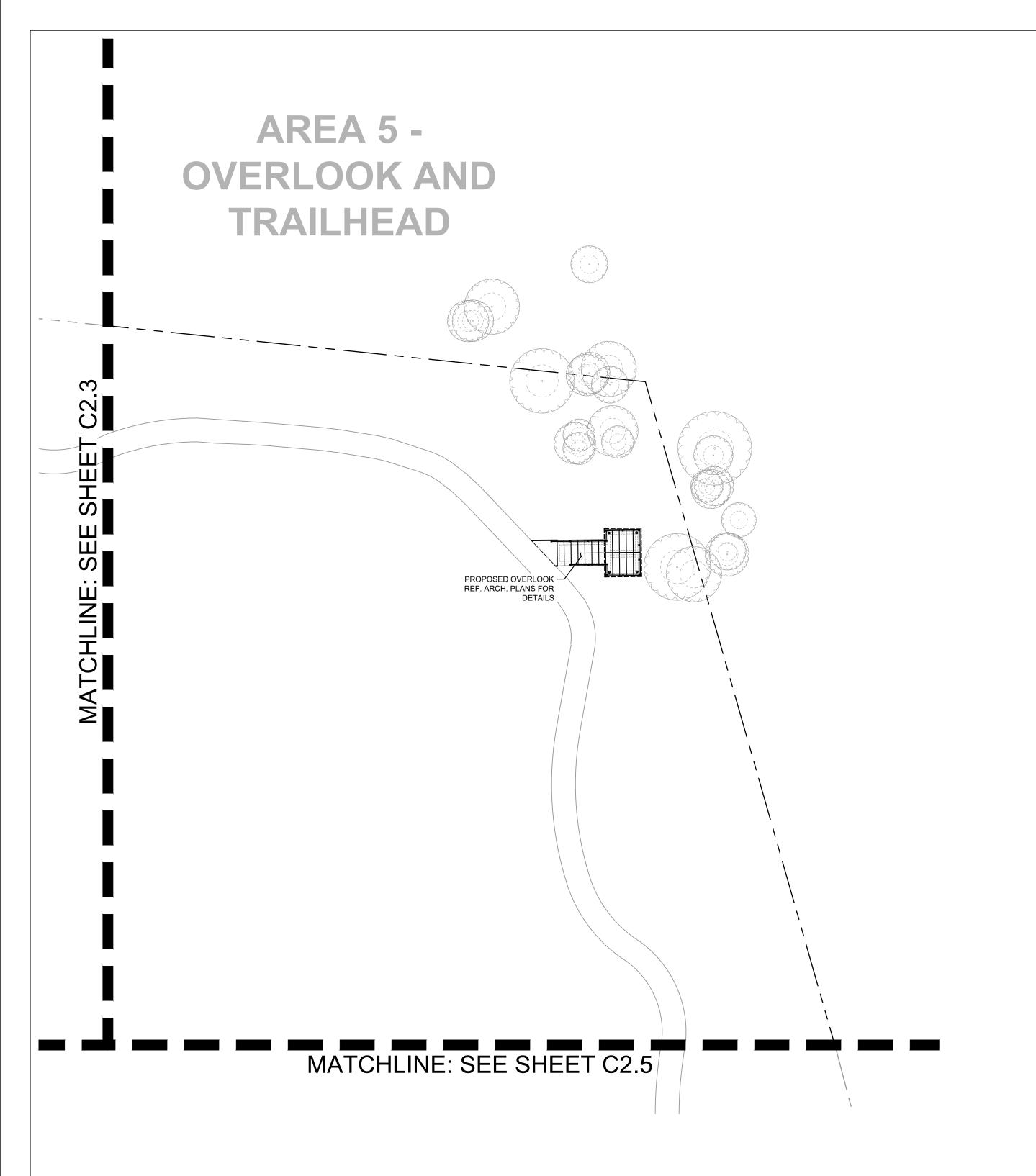
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR

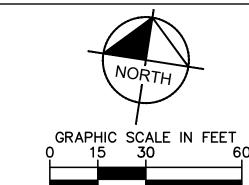
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CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ______

ANY DISCREPANCIES ON THE PLANS.





LEGEND PROPERTY BOUNDARY PROPOSED FIRE LANE PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED FIRE HYDRANT EXISTING SANITARY SEWER MANHOLE EXISTING FIRE HYDRANT EXISTING POWER POLE PROPOSED 6" CONCRETE CURB (REF. DETAIL, C6.2) 4" PAINTED STRIPE (TYP.) 3 4" PAINTED STRIPING, 2' O.C. @ 45° FIRE LANE STRIPING (REF. DETAIL, SHEET C2.9) ACCESSIBLE PARKING SYMBOL **(5)** (REF. DETAIL, SHEET C6.0) ACCESSIBLE PARKING SIGN (REF. DETAIL, SHEET C6.0) STOP SIGN (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC CONCRETE SIDEWALK 8 (REF. DETAIL, SHEET C6.0) 9 CONCRETE WHEELSTOP (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC BARRIER FREE RAMP $\langle 10 \rangle$ (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" STRIPING. CONTRACTOR TO PROVIDE SHOP DRAWING OF PAVEMENT MARKINGS FOR APPROVAL PRIOR TO INSTALLATION PROPOSED DETECTABLE WARNING STRIP (SEE DETAIL SHEET C6.1) PROPOSED FLUSH CURB PROPOSED MOUNTABLE CURB (REF. DETAIL, SHEET C6.2) PROPOSED SAW TOOTH CURB (REF. DETAIL, SHEET C6.0) PROPOSED BIKE RACKS (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" SIGN PROPOSED SIDEWALK DRAIN (REF. DETAIL, SHEET C6.2) PROPOSED EXTENDED CURB (REF. DETAIL, SHEET C6.0) PROPOSED 9" CURB (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC HANDRAIL RAMP (REF. DETAIL, SHEET C6.0) PROPOSED HANDRAILS PROPOSED LIGHT-DUTY ASPHALT PAVEMENT PROPOSED MEDIUM-DUTY ASPHALT PAVEMENT PROPOSED STANDARD DUTY CONCRETE

NOTES

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PROPOSED PUBLIC SIDEWALK

(SEE DETAIL SHEETC6.1)

PROPOSED GRAVEL DRIVE

PROPOSED DETECTABLE WARNING STRIP

PROPOSED VEGETATIVE FILTER STRIP

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100% CONSTRUCTION DOCUMENTS BENCHMARK LIST Project No.: 068710058 10/25/2024 Issued:

Drawn By: NATE W. Checked By: JASON L. Sheet Title

DIMENSION CONTROL & PAVING PLAN (SHEET 4 OF 8)

PUBLIC WORKS

Sheet Number Project Page Number

MAG NAIL SET IN CURB Know what's below. Call before you dig.

igwedge existing underground utilities in the area contractor $^{-1}$

IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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N: 13,779,414.99

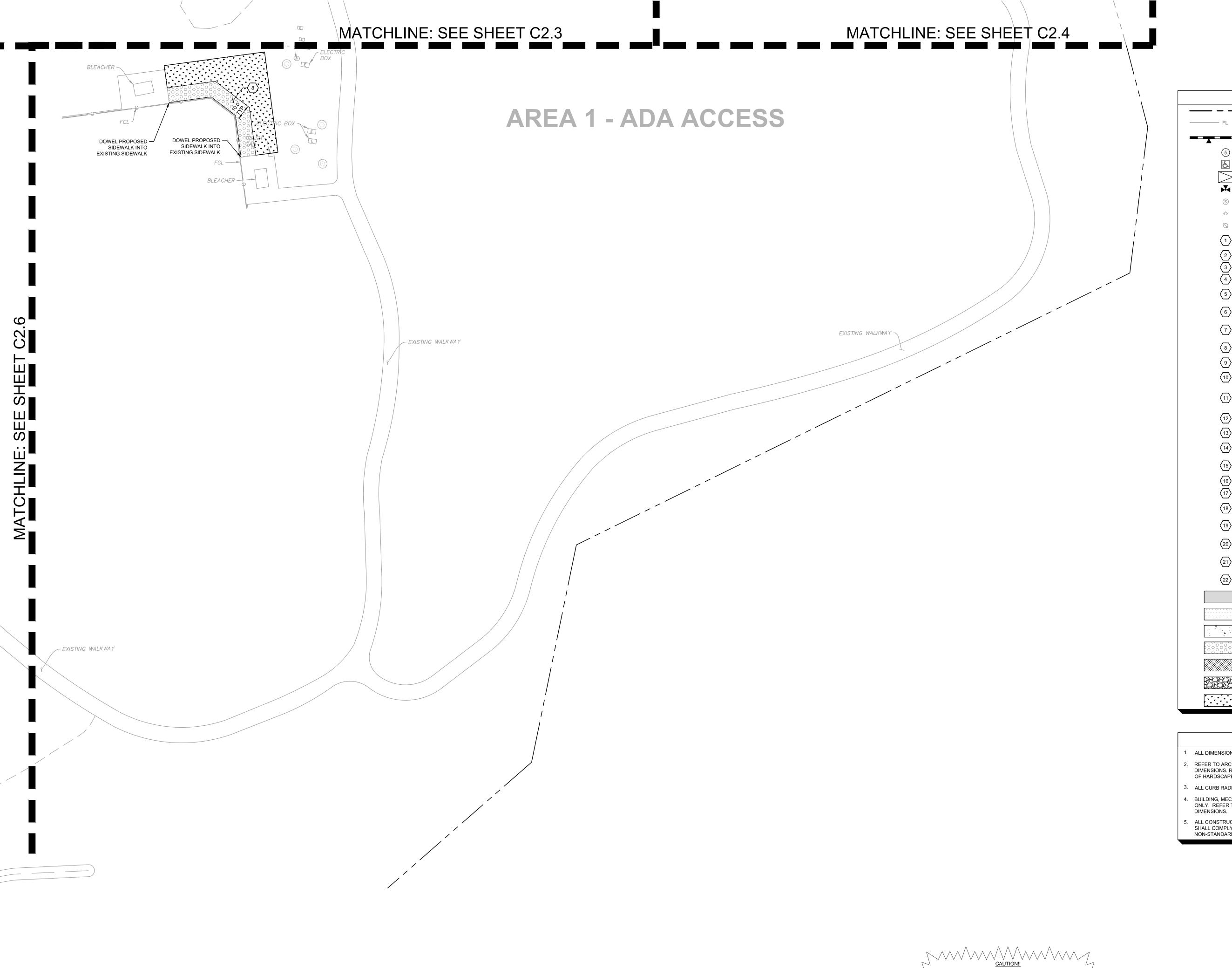
E: 2,134,030.05 ELEVATION: 1010.28' MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01 ELEVATION: 1003.64

MAG NAIL SET IN CURB N: 13,779,134.10

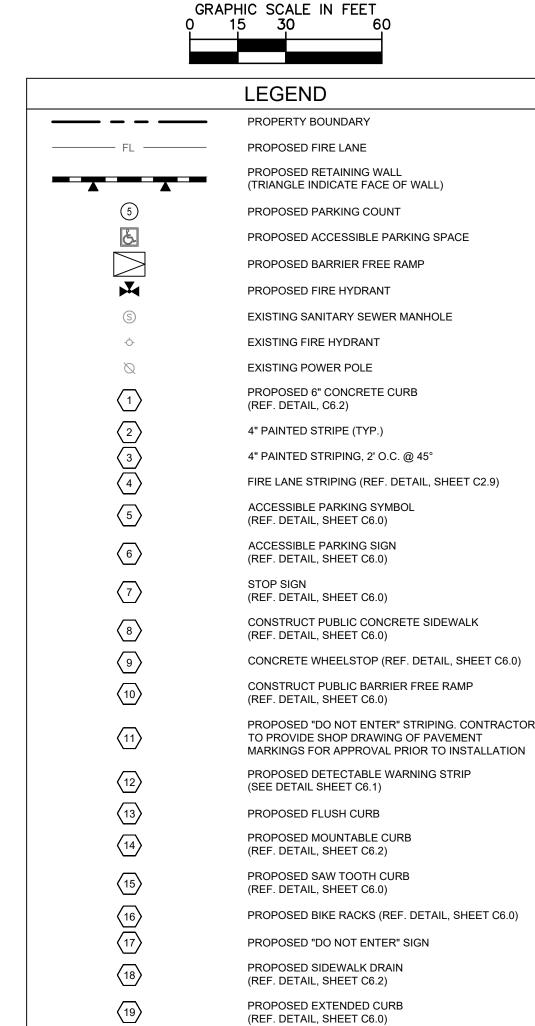
E: 2,135,300.85

CP 901

ELEVATION: 995.54







PROPOSED 9" CURB (REF. DETAIL, SHEET C6.0)

(REF. DETAIL, SHEET C6.0)

PROPOSED HANDRAILS

CONSTRUCT PUBLIC HANDRAIL RAMP

PROPOSED LIGHT-DUTY ASPHALT PAVEMENT

PROPOSED STANDARD DUTY CONCRETE

PROPOSED DETECTABLE WARNING STRIP

PROPOSED VEGETATIVE FILTER STRIP

PROPOSED PUBLIC SIDEWALK

(SEE DETAIL SHEETC6.1)

PROPOSED GRAVEL DRIVE

PROPOSED MEDIUM-DUTY ASPHALT PAVEMENT

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100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued:

OF

Drawn By: NATE W. Checked By: JASON L. Sheet Title

DIMENSION CONTROL & PAVING PLAN (SHEET 5 OF 8)

Project Page Number Sheet Number

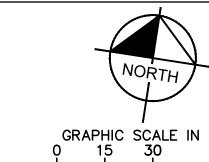
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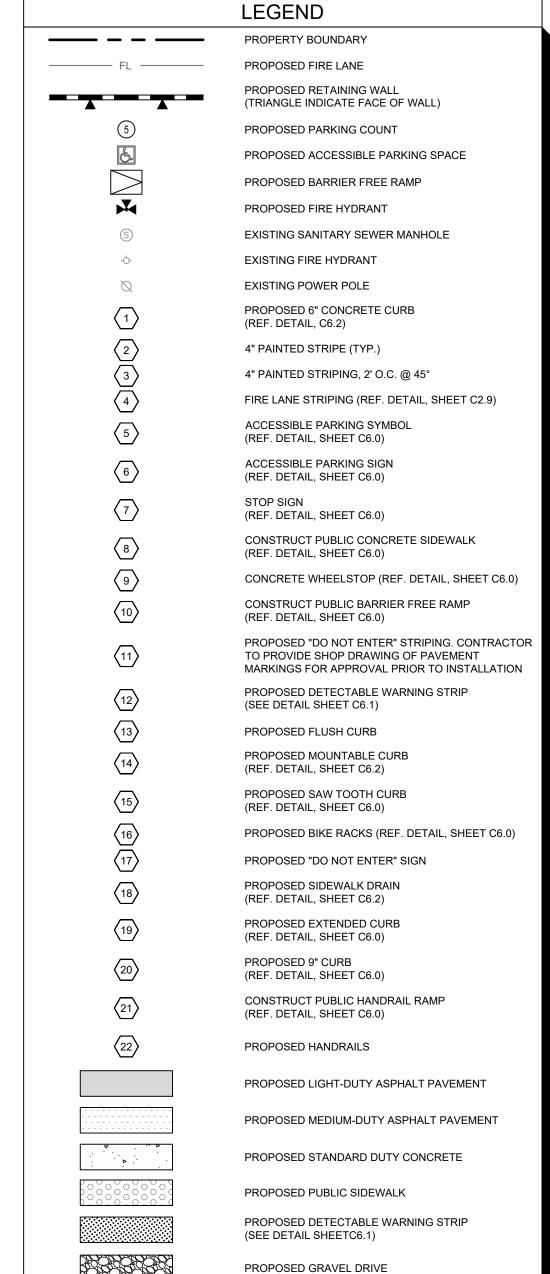
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CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF



GRAPHIC SCALE IN FEET



NOTES

PROPOSED VEGETATIVE FILTER STRIP

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ELEVATION: 1003.64

E: 2,134,030.05 ELEVATION: 1010.28' MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01

100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W. Checked By: JASON L.

Or

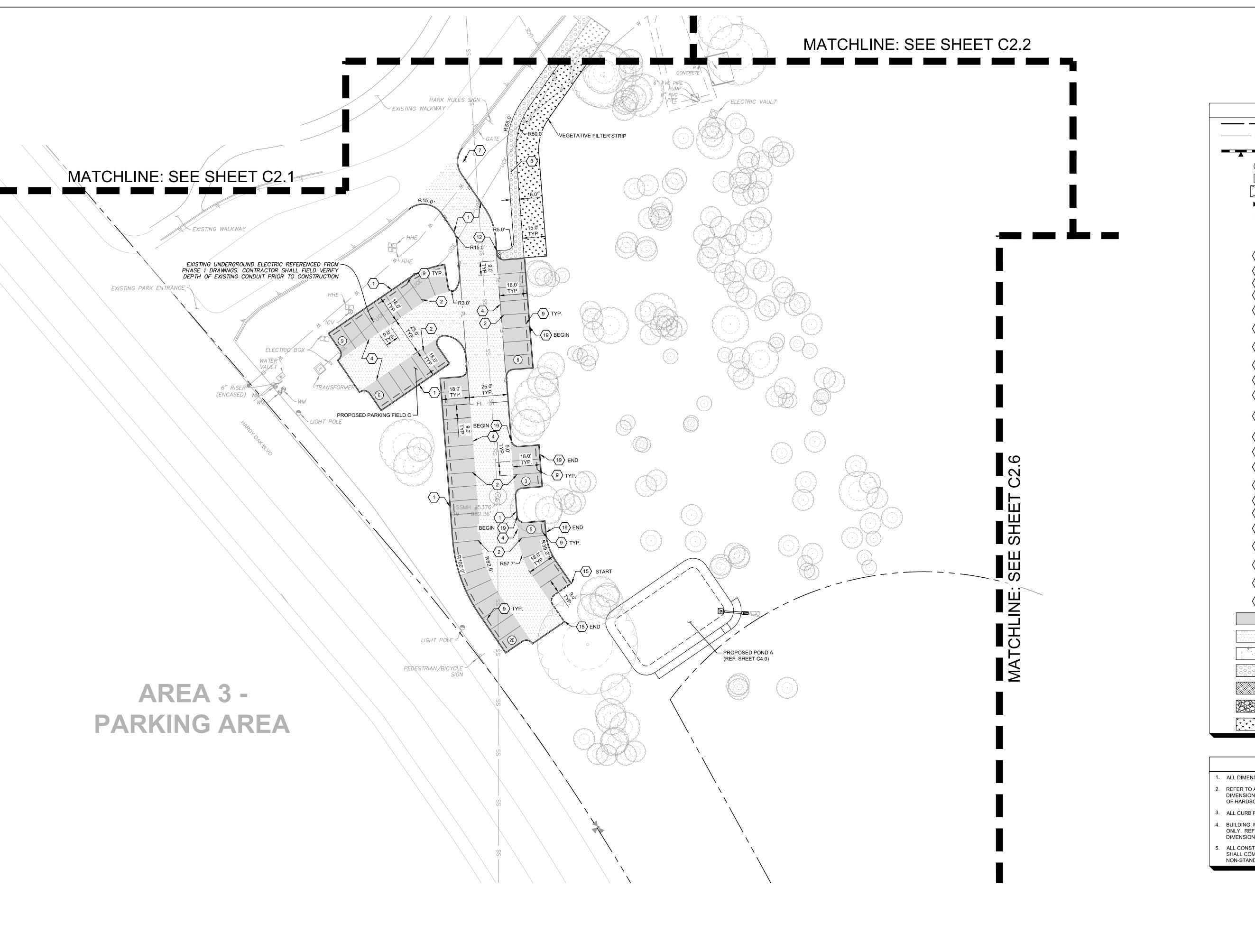
Sheet Title DIMENSION CONTROL & PAVING PLAN (SHEET 6 OF 8)

Sheet Number

Project Page Number

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ANY DISCREPANCIES ON THE PLANS.





GRAPHIC SCALE IN FEET

LEGEND PROPERTY BOUNDARY PROPOSED FIRE LANE PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED FIRE HYDRANT EXISTING SANITARY SEWER MANHOLE EXISTING FIRE HYDRANT EXISTING POWER POLE PROPOSED 6" CONCRETE CURB (REF. DETAIL, C6.2) 4" PAINTED STRIPE (TYP.) 4" PAINTED STRIPING, 2' O.C. @ 45° FIRE LANE STRIPING (REF. DETAIL, SHEET C2.9) ACCESSIBLE PARKING SYMBOL (REF. DETAIL, SHEET C6.0) ACCESSIBLE PARKING SIGN (REF. DETAIL, SHEET C6.0) STOP SIGN (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC CONCRETE SIDEWALK 8 (REF. DETAIL, SHEET C6.0) 9 CONCRETE WHEELSTOP (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC BARRIER FREE RAMP (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" STRIPING. CONTRACTOR TO PROVIDE SHOP DRAWING OF PAVEMENT MARKINGS FOR APPROVAL PRIOR TO INSTALLATION PROPOSED DETECTABLE WARNING STRIP (SEE DETAIL SHEET C6.1) PROPOSED FLUSH CURB PROPOSED MOUNTABLE CURB (REF. DETAIL, SHEET C6.2) PROPOSED SAW TOOTH CURB (REF. DETAIL, SHEET C6.0) PROPOSED BIKE RACKS (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" SIGN PROPOSED SIDEWALK DRAIN (REF. DETAIL, SHEET C6.2) PROPOSED EXTENDED CURB (REF. DETAIL, SHEET C6.0) PROPOSED 9" CURB (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC HANDRAIL RAMP (REF. DETAIL, SHEET C6.0) PROPOSED HANDRAILS PROPOSED LIGHT-DUTY ASPHALT PAVEMENT PROPOSED MEDIUM-DUTY ASPHALT PAVEMENT PROPOSED STANDARD DUTY CONCRETE PROPOSED PUBLIC SIDEWALK PROPOSED DETECTABLE WARNING STRIP

NOTES

(SEE DETAIL SHEETC6.1)

PROPOSED GRAVEL DRIVE

PROPOSED VEGETATIVE FILTER STRIP

- . ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL
- 3. ALL CURB RADII ARE 5 FEET UNLESS DIMENSIONED OTHERWISE.
- BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND
- ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF SAN ANTONIO STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.

BENCHMARK LIST

CP 900 MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85

ELEVATION: 995.54 CP 901 MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05

ELEVATION: 1010.28' MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01 ELEVATION: 1003.64

100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W. Checked By: JASON L.

Sheet Title DIMENSION CONTROL & PAVING PLAN (SHEET 7 OF 8)

Project Page Number

Sheet Number C2.7

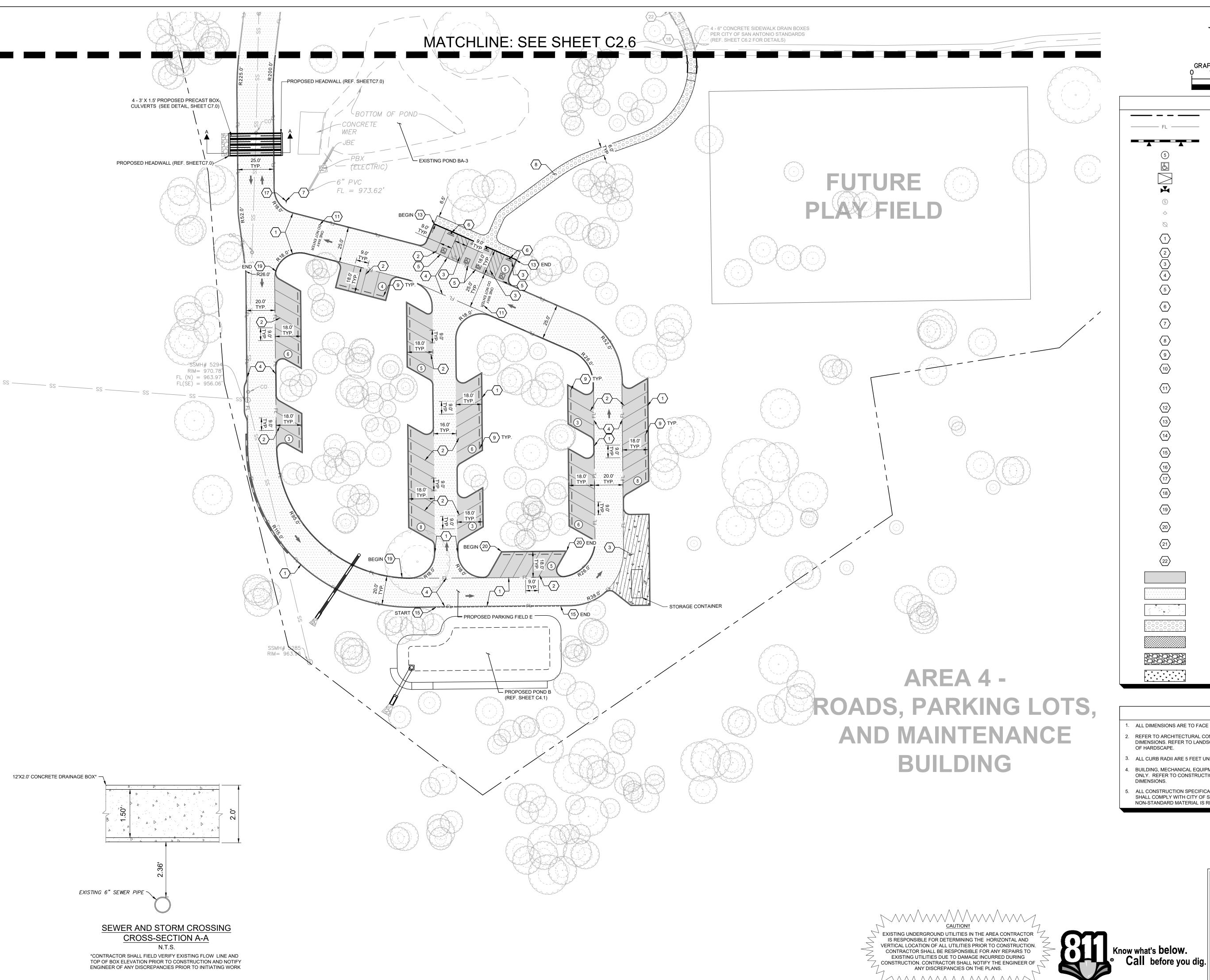
Know what's below. Call before you dig.

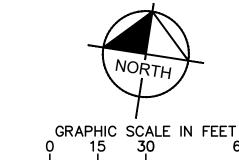
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR

IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING

CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.





LEGEND PROPERTY BOUNDARY PROPOSED FIRE LANE PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED FIRE HYDRANT EXISTING SANITARY SEWER MANHOLE EXISTING FIRE HYDRANT EXISTING POWER POLE PROPOSED 6" CONCRETE CURB (REF. DETAIL, C6.2) 4" PAINTED STRIPE (TYP.) 4" PAINTED STRIPING, 2' O.C. @ 45° FIRE LANE STRIPING (REF. DETAIL, SHEET C2.9) ACCESSIBLE PARKING SYMBOL (REF. DETAIL, SHEET C6.0) ACCESSIBLE PARKING SIGN (REF. DETAIL, SHEET C6.0) STOP SIGN (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC CONCRETE SIDEWALK (REF. DETAIL, SHEET C6.0) CONCRETE WHEELSTOP (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC BARRIER FREE RAMP (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" STRIPING. CONTRACTOR TO PROVIDE SHOP DRAWING OF PAVEMENT MARKINGS FOR APPROVAL PRIOR TO INSTALLATION PROPOSED DETECTABLE WARNING STRIP (SEE DETAIL SHEET C6.1) PROPOSED FLUSH CURB PROPOSED MOUNTABLE CURB (REF. DETAIL, SHEET C6.2) PROPOSED SAW TOOTH CURB (REF. DETAIL, SHEET C6.0) PROPOSED BIKE RACKS (REF. DETAIL, SHEET C6.0) PROPOSED "DO NOT ENTER" SIGN PROPOSED SIDEWALK DRAIN (REF. DETAIL, SHEET C6.2) PROPOSED EXTENDED CURB (REF. DETAIL, SHEET C6.0) PROPOSED 9" CURB (REF. DETAIL, SHEET C6.0) CONSTRUCT PUBLIC HANDRAIL RAMP (REF. DETAIL, SHEET C6.0) PROPOSED HANDRAILS PROPOSED LIGHT-DUTY ASPHALT PAVEMENT

NOTES

PROPOSED MEDIUM-DUTY ASPHALT PAVEMENT

PROPOSED STANDARD DUTY CONCRETE

PROPOSED DETECTABLE WARNING STRIP

PROPOSED VEGETATIVE FILTER STRIP

PROPOSED PUBLIC SIDEWALK

(SEE DETAIL SHEETC6.1)

PROPOSED GRAVEL DRIVE

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CP 900 MAG NAIL SET IN CURB

MAG NAIL SET IN CURB

ELEVATION: 1010.28'

MAG NAIL SET IN CURB

N: 13.777.728.43 E: 2,135,076.01 **ELEVATION: 1003.64**

N: 13,779,134.10

E: 2,135,300.85

CP 901

ELEVATION: 995.54

N: 13,779,414.99

E: 2,134,030.05



100% CONSTRUCTION DOCUMENTS

Project No.: 068710058 10/25/2024 Issued:

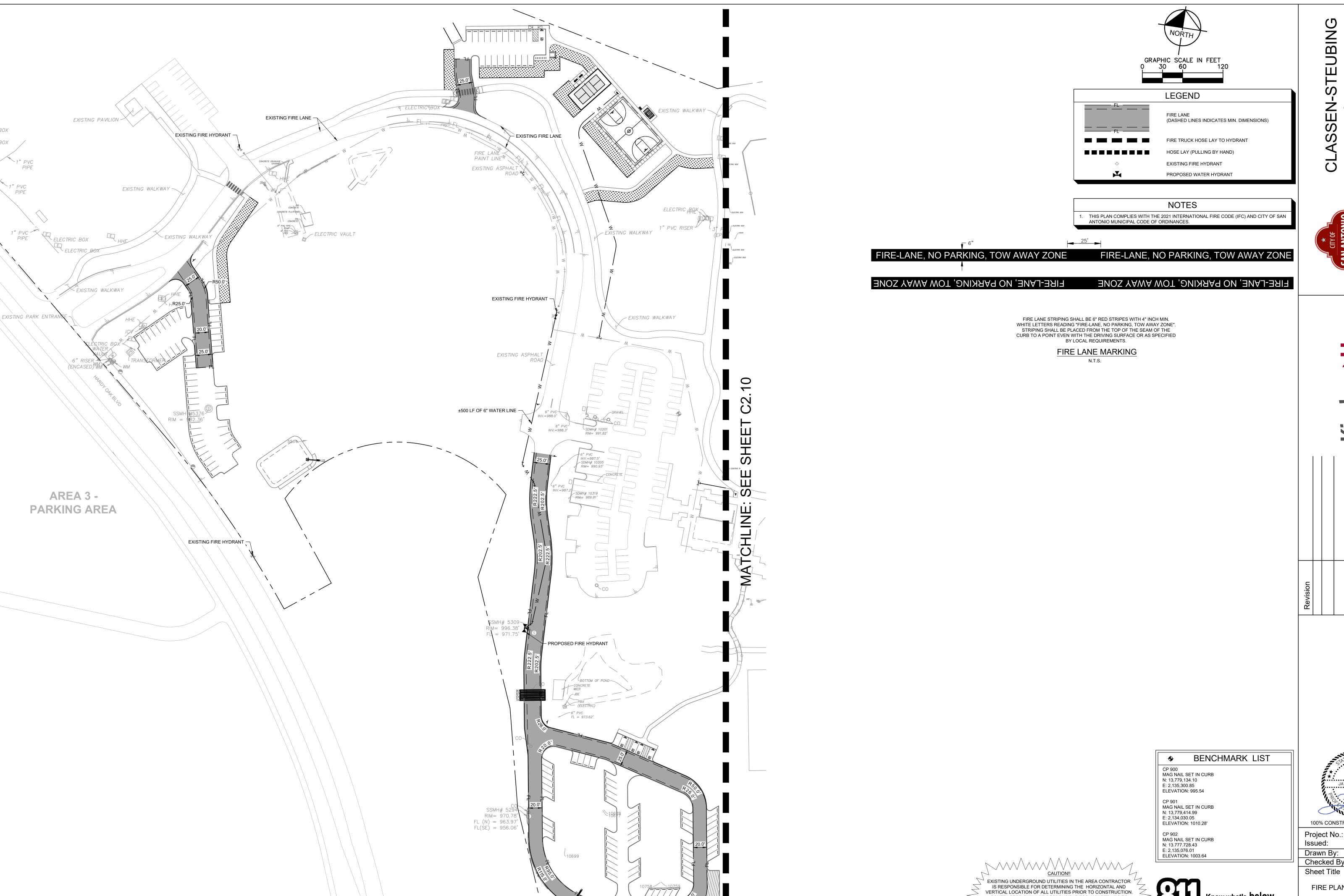
Drawn By: NATE W. Checked By: JASON L.

Sheet Title **DIMENSION CONTROL & PAVING**

> PLAN (SHEET 8 OF 8) Project Page Number

Sheet Number C2.8

BENCHMARK LIST





Know what's **below.**Call before you dig.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO
EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING
CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF
ANY DISCREPANCIES ON THE PLANS.

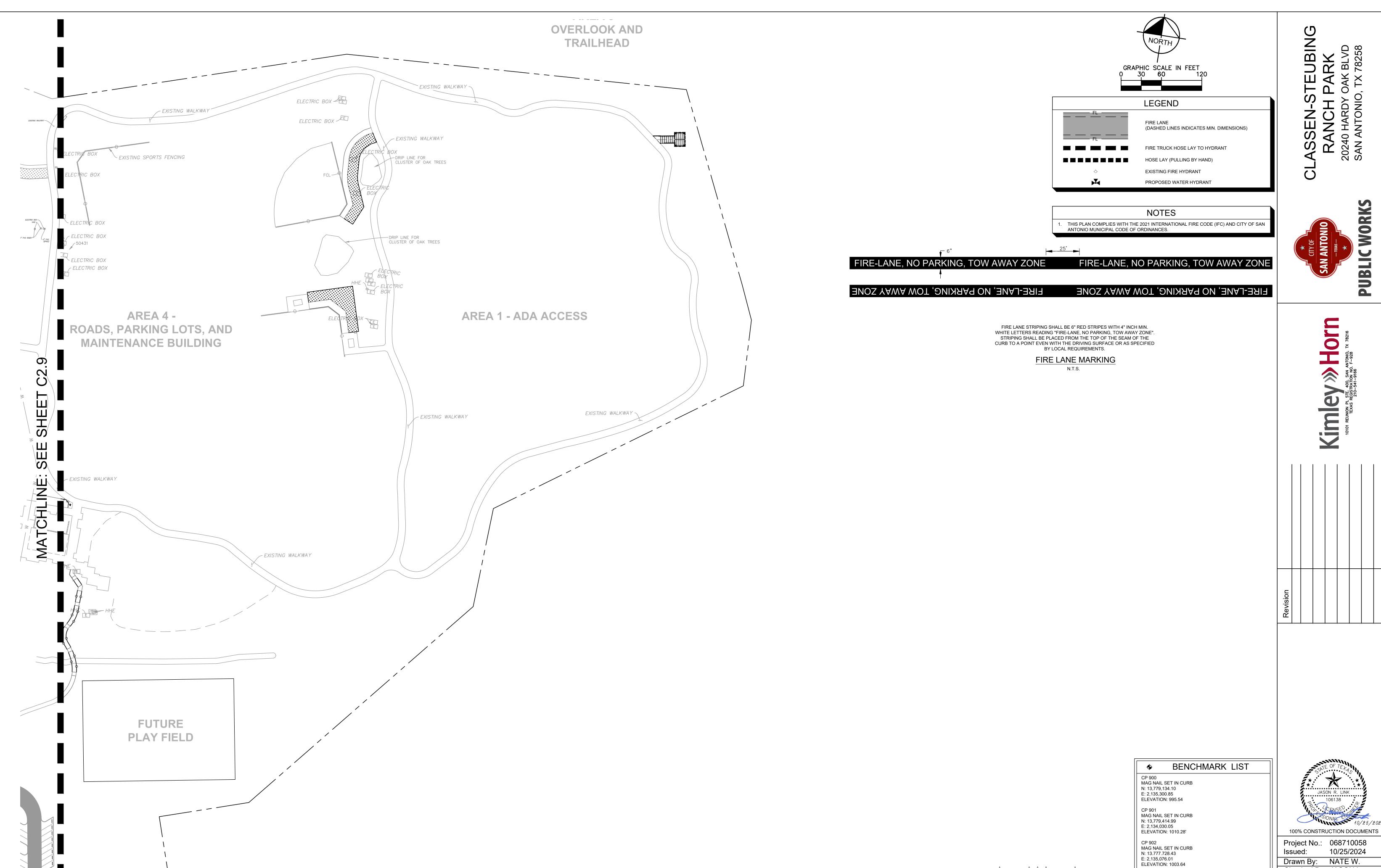


Project No.: 068710058 10/25/2024 Drawn By: NATE W. Checked By: JASON L.

FIRE PLAN (SHEET 1 OF 2)

Sheet Number Project Page Number

C2.9



PUBLIC WORKS

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR
IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

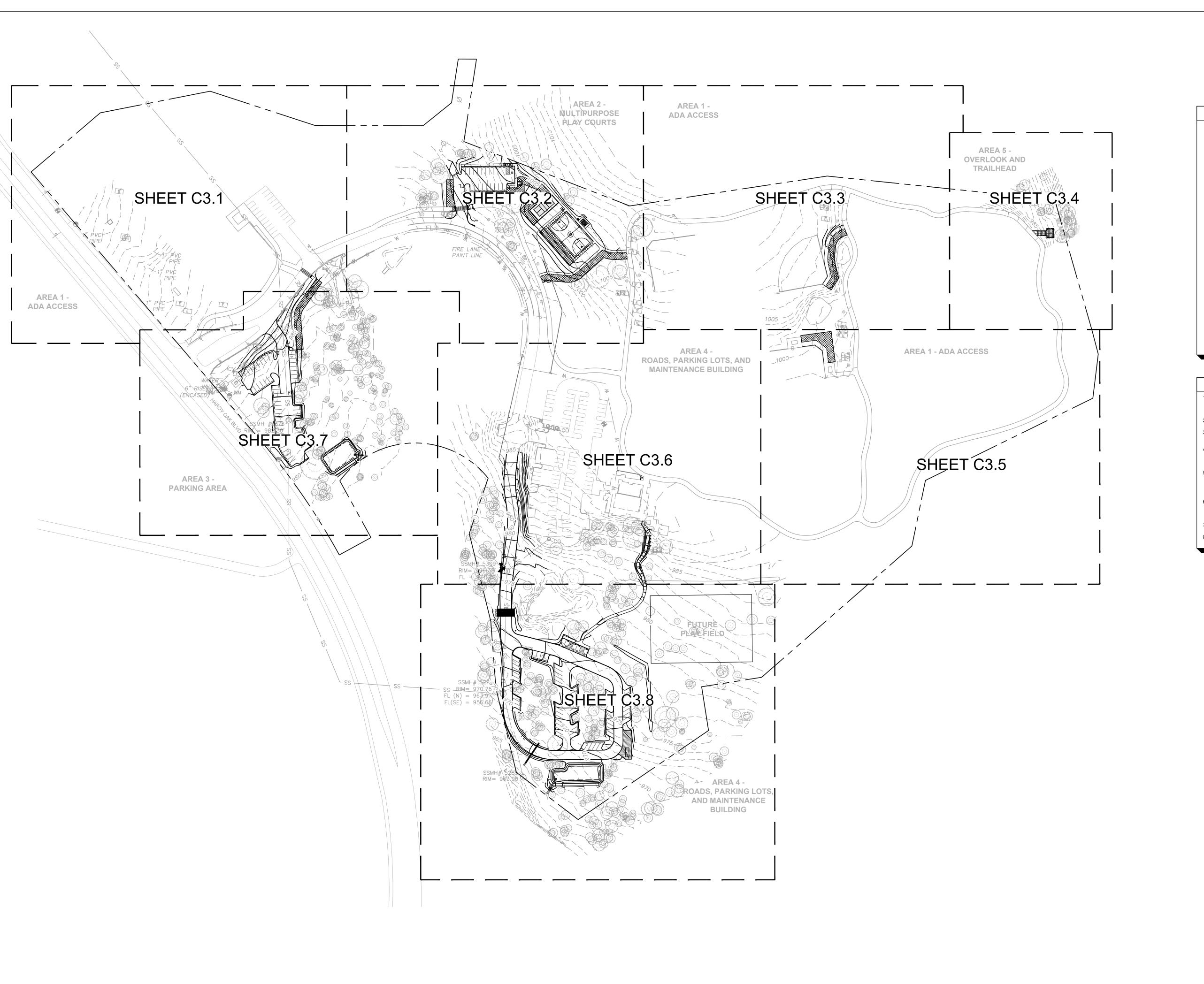
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EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING
CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF

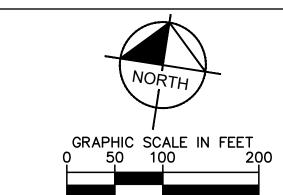
ANY DISCREPANCIES ON THE PLANS.

Checked By: JASON L. Sheet Title Know what's **below.**Call before you dig. Sheet Number

FIRE PLAN (SHEET 2 OF 2)

Project Page Number C2.10





| | LEGEND |
|------------------|--|
| XXXXXX | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| TC | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| <u>-</u> | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) |
| → | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

- ALL SPOT GRADES ARE TO TOP OF PAVEMENT (TP) OR TOP OF GRATE (TG), UNLESS OTHERWISE NOTED AS TC (TOP OF CURB). CONTRACTOR TO ADD 6" FOR TOP OF CURB AS NECESSARY.
- 2. NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
- 3. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES, LOADING ZONES AND SIDEWALK LANDINGS SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
- 4. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS UNLESS OTHERWISE NOTED. RUNNING SLOPE MAY EXCEED 5% IN PUBLIC R.O.W. IF EXISTING ROAD SLOPE EXCEEDS 5%.
- 5. GENERAL CONTRACTOR TO REFERENCE NOTE 1 REGARDING SPOT ELEVATIONS, COORDINATE WITH DIRT AND LANDSCAPE SUBCONTRACTORS REGARDING PROPOSED SOD AND HYDROMULCH LOCATIONS TO ENSURE ADEQUATE CUT FOR FUTURE
- 6. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, READJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
- . REFERENCE LANDSCAPE PLANS FOR DETAILS FOR RAMPS, HANDRAILS AND STAIRS.
- PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.

IOTOT REUNION PL STE. 400, SAN ANTONIO, TX 78216
TEXAS REGISTRATION NO. F-928
210-541-9166



Project No.: 068710058 Issued: 10/25/2024 Drawn By: NATE W.

Checked By: JASON L.
Sheet Title

OVERALL GRADING PLAN

Sheet Number Project Page Number



ATTACHMENT G - INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

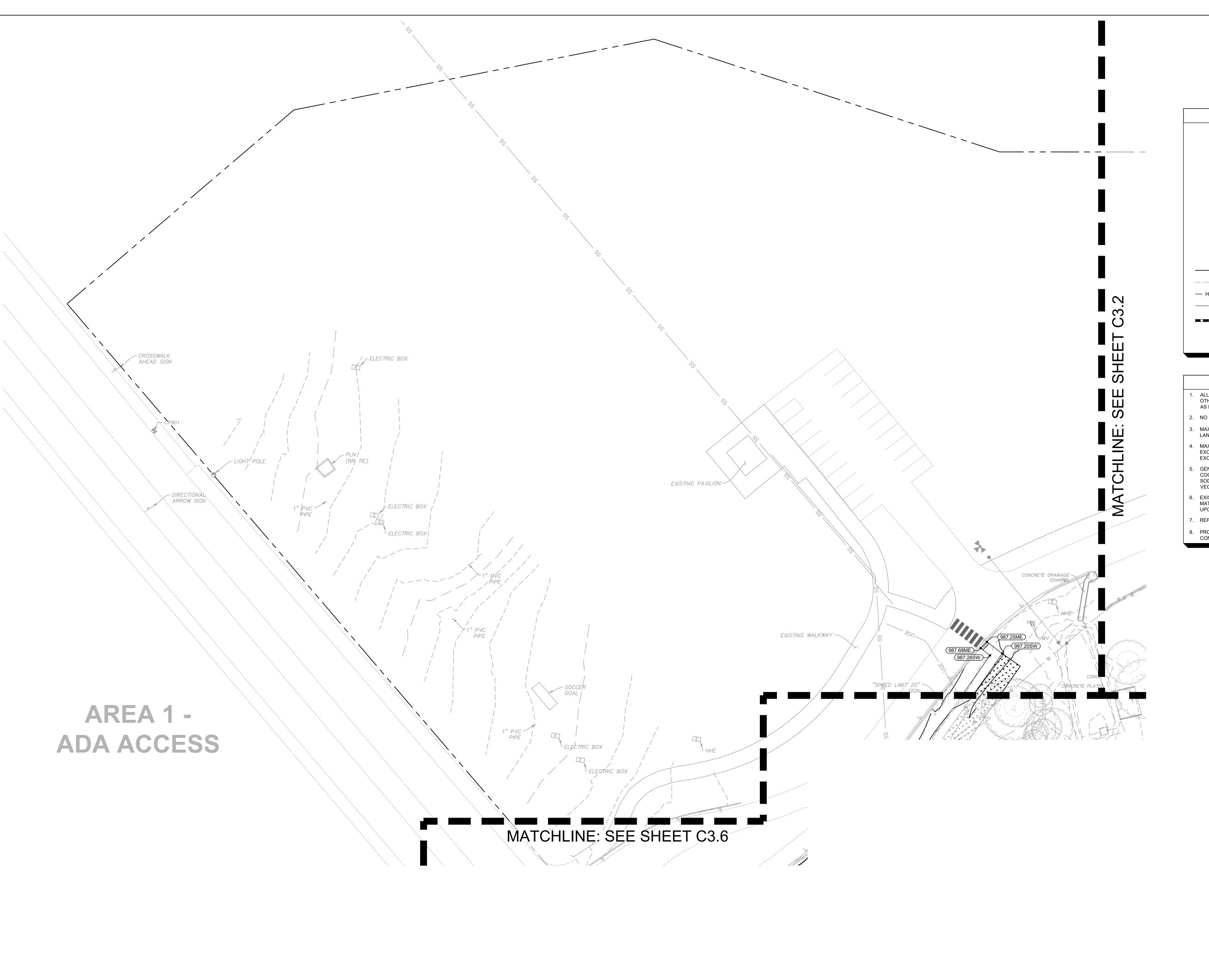
The inspection and maintenance plan outlines the procedures necessary to maintain the performance of the Permanent Best Management Practices for this project. It should be noted that the plan provides guidelines that may have to be adjusted dependent on site specific and weather-related conditions.

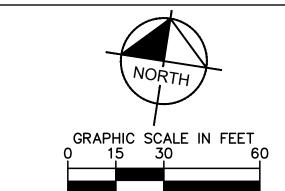
It is the responsibility of the owner to provide the inspections and maintenance as outlined in the plan for the duration of the project. The owner will maintain this responsibility until it is assumed or transferred to another entity in writing. If the property is leased or sold, the responsibility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

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. Records shall be maintained for a minimum of 3 years and shall be made available to TCEQ upon request. A sample inspection report is included with this attachment.

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 Mailing Address: City, State: Telephone: | City Tower 1 | 00 W. Houston Texas | St., 17th F | | 66 | |
|--|--|--|--|-----------------------------|-------------------------------------|-------------------------------------|
| I, the owner, hav Maintenance Plar acknowledge that until the responsib legal instrument. Signature of Resp | i for the propo I will maintain pility is transfer | sed Permanent responsibility fo red to or assume | Best Manag r the implemed by anothe | gement Pra- ientation an | ctices fo d execut riting thr | r my project. I tion of the plan |
| By: Home | Gra II | | Date(2 | -16-24 | _ | |





| | LEGEND |
|------------------|--|
| ~(XXX.XX) | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| тс | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) |
| - | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

- 1. ALL SPOT GRADES ARE TO TOP OF PAVEMENT (TP) OR TOP OF GRATE (TG), UNLESS OTHERWISE NOTED AS TC (TOP OF CURB). CONTRACTOR TO ADD 6" FOR TOP OF CURB
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- REFERENCE LANDSCAPE PLANS FOR DETAILS FOR RAMPS, HANDRAILS AND STAIRS.
- 3. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.







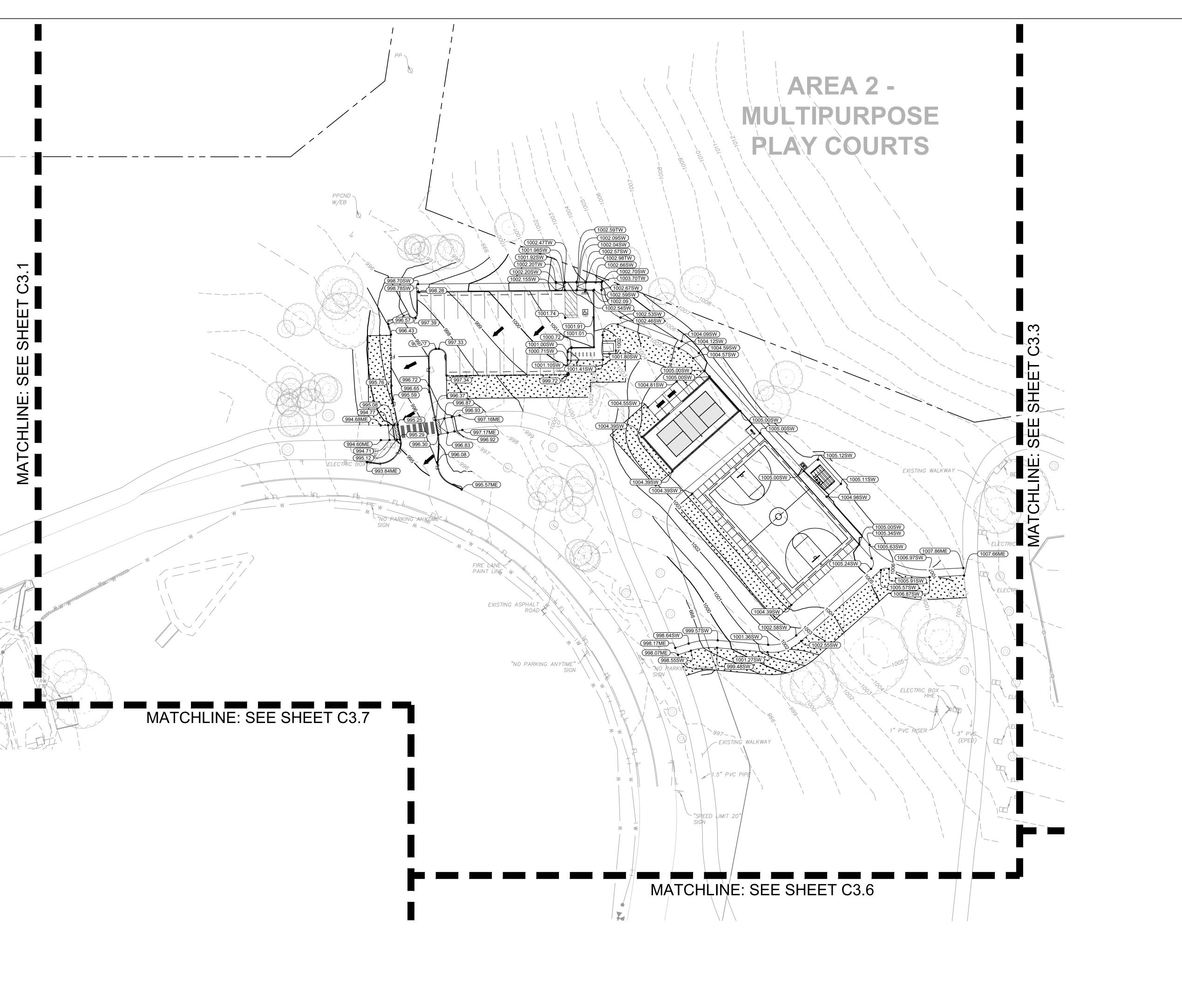


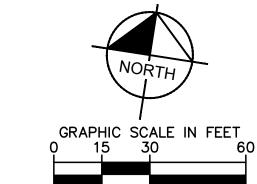


Project No.: 068710058 lssued: 10/25/2024 Drawn By: NATE W.
Checked By: JASON L.

GRADING PLAN (SHEET 1 OF 8)

Project Page Number C3.1





| | - |
|------------------|--|
| | LEGEND |
| XXXXXX | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| тс | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) |
| - | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

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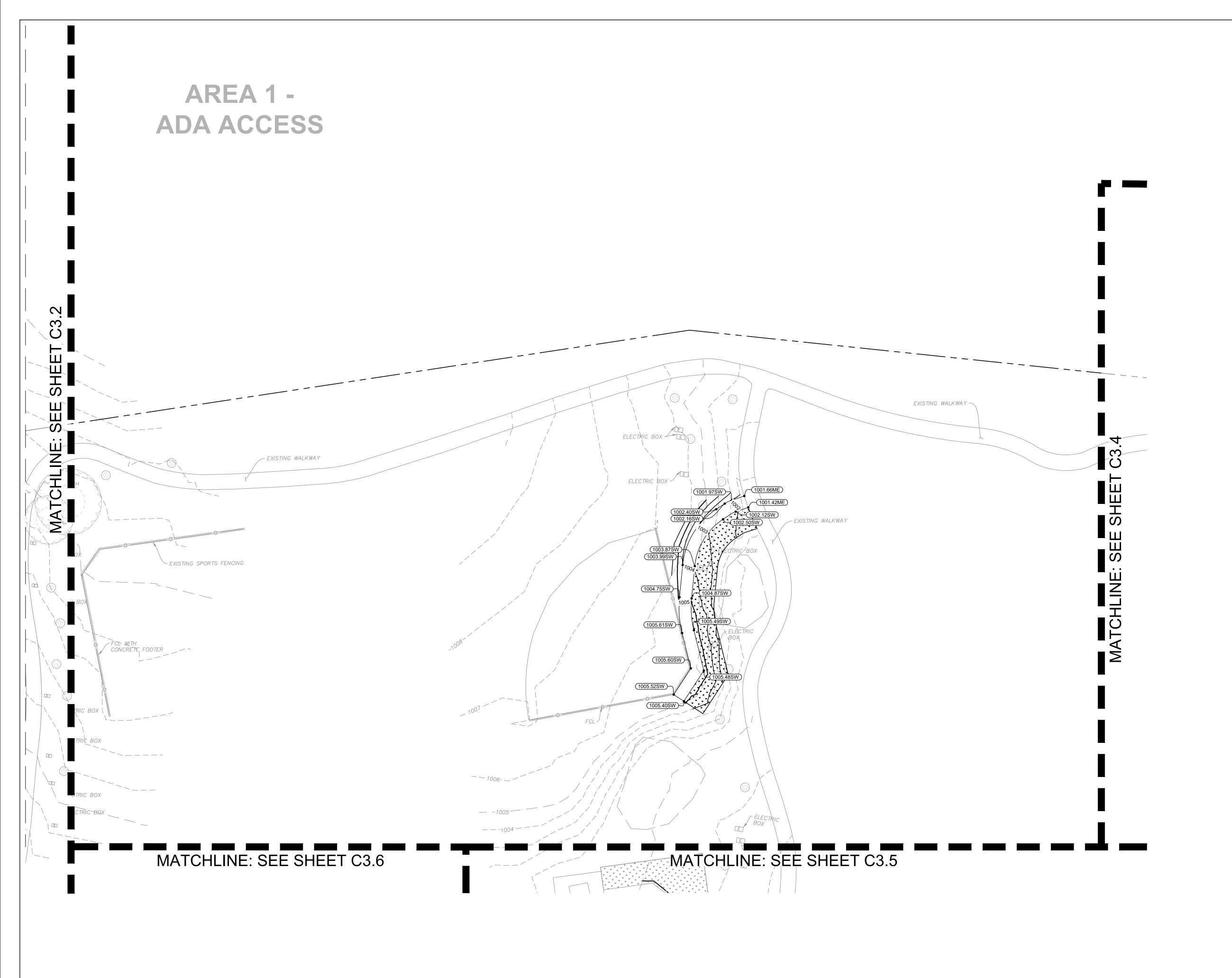
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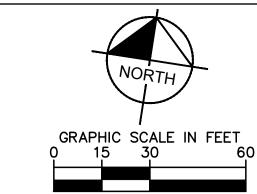
100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Drawn By: NATE W.

Checked By: JASON L. Sheet Title

GRADING PLAN (SHEET 2 OF 8)

Project Page Number Sheet Number





| | LEGEND |
|------------------|--|
| √ XXX.XX | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| TC | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) |
| → | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

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- 3. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.

10101 REUNION PL STE. 400 TEXAS REGISTRA1



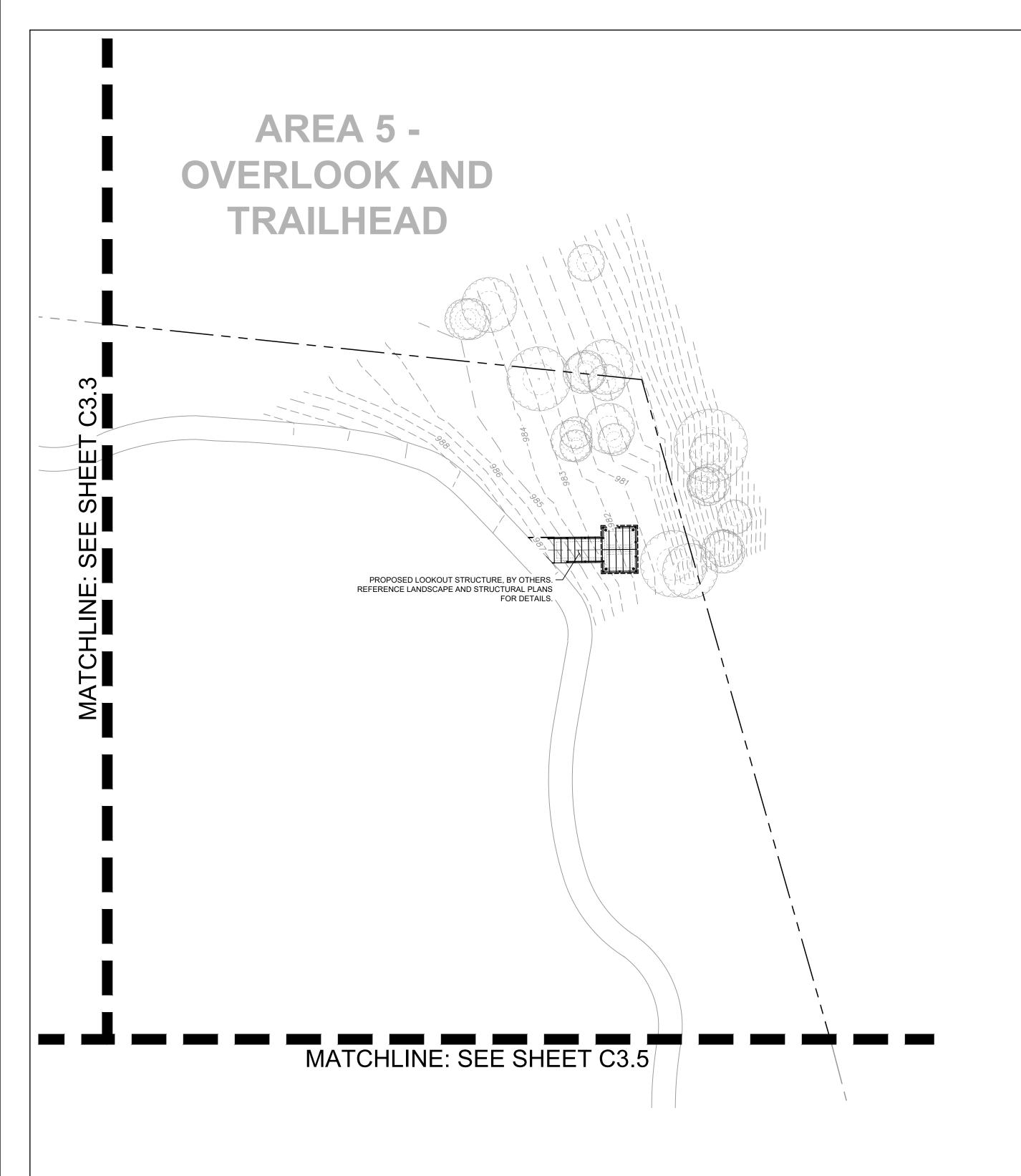
Project No.: 068710058 lssued: 10/25/2024 Drawn By: NATE W. Checked By: JASON L.

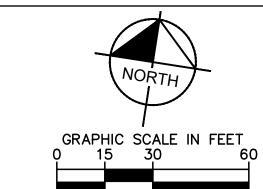
Sheet Title

GRADING PLAN (SHEET 3 OF 8)

Sheet Number

Project Page Number C3.3





| | LEGEND |
|------------------|--|
| XXX.XX | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| TC | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| <u>-</u> | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) |
| → | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

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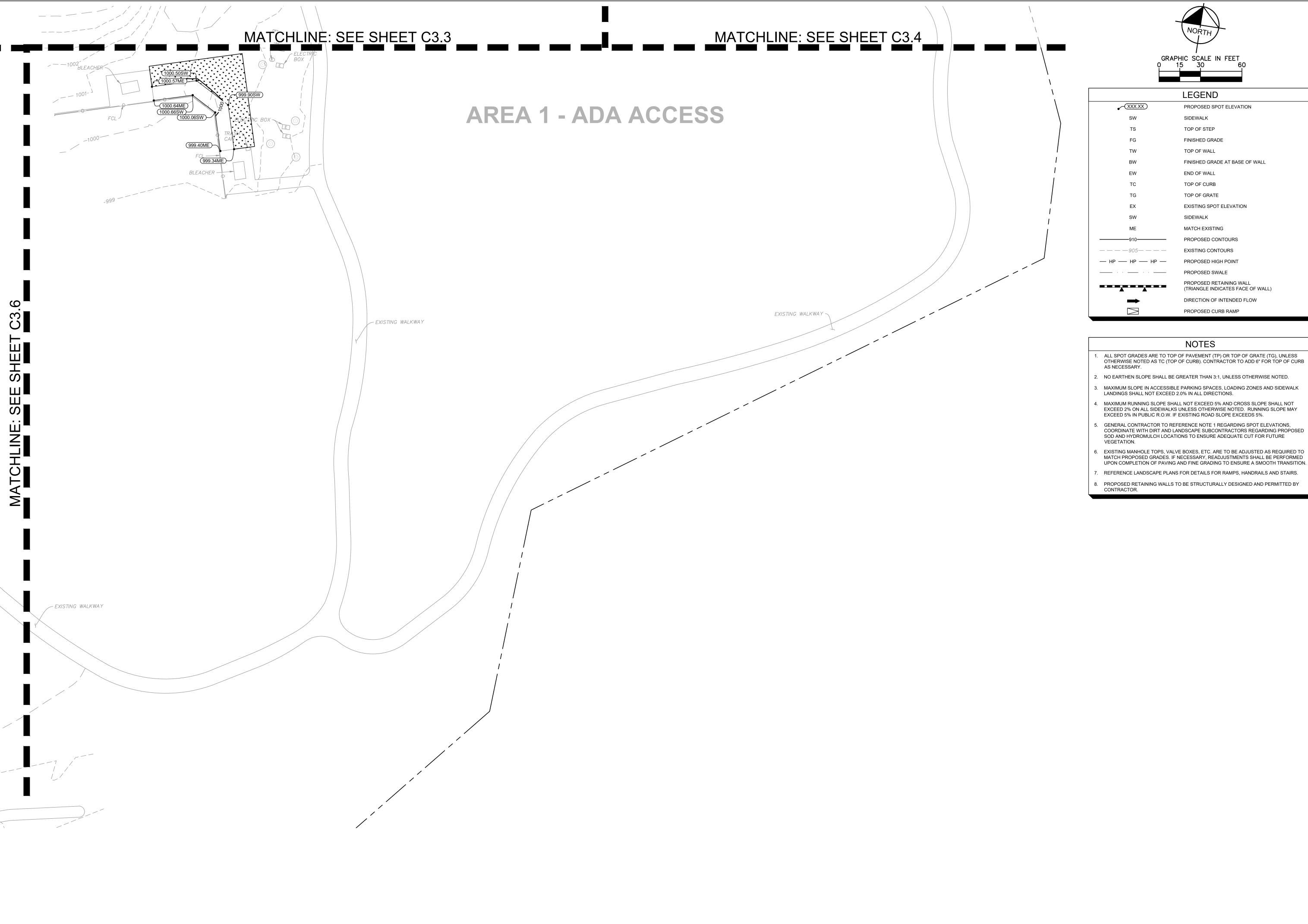
Project No.: 068710058 10/25/2024 Drawn By: NATE W. Checked By: JASON L.

Sheet Title

GRADING PLAN (SHEET 4 OF 8)

Sheet Number

Project Page Number C3.4





| • | | |
|------------------|--|--|
| LEGEND | | |
| XXX.XX | PROPOSED SPOT ELEVATION | |
| SW | SIDEWALK | |
| TS | TOP OF STEP | |
| FG | FINISHED GRADE | |
| TW | TOP OF WALL | |
| BW | FINISHED GRADE AT BASE OF WALL | |
| EW | END OF WALL | |
| TC | TOP OF CURB | |
| TG | TOP OF GRATE | |
| EX | EXISTING SPOT ELEVATION | |
| SW | SIDEWALK | |
| ME | MATCH EXISTING | |
| 910 | PROPOSED CONTOURS | |
| | EXISTING CONTOURS | |
| — HP — HP — HP — | PROPOSED HIGH POINT | |
| · · · · | PROPOSED SWALE | |
| | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) | |
| - | DIRECTION OF INTENDED FLOW | |

ALL SPOT GRADES ARE TO TOP OF PAVEMENT (TP) OR TOP OF GRATE (TG), UNLESS OTHERWISE NOTED AS TC (TOP OF CURB). CONTRACTOR TO ADD 6" FOR TOP OF CURB

PROPOSED CURB RAMP

- 2. NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
- MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES, LOADING ZONES AND SIDEWALK
- MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS UNLESS OTHERWISE NOTED. RUNNING SLOPE MAY
- EXCEED 5% IN PUBLIC R.O.W. IF EXISTING ROAD SLOPE EXCEEDS 5%. GENERAL CONTRACTOR TO REFERENCE NOTE 1 REGARDING SPOT ELEVATIONS, COORDINATE WITH DIRT AND LANDSCAPE SUBCONTRACTORS REGARDING PROPOSED SOD AND THE CONTRACTORS TO ENSURE ADEQUATE CUT FOR FUTURE
- EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, READJUSTMENTS SHALL BE PERFORMED
- REFERENCE LANDSCAPE PLANS FOR DETAILS FOR RAMPS, HANDRAILS AND STAIRS.
- PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.

10101 REUNION PL STE. 400, SAN ANTONIO, TX 78216
TEXAS REGISTRATION NO. F-928
210-541-9166

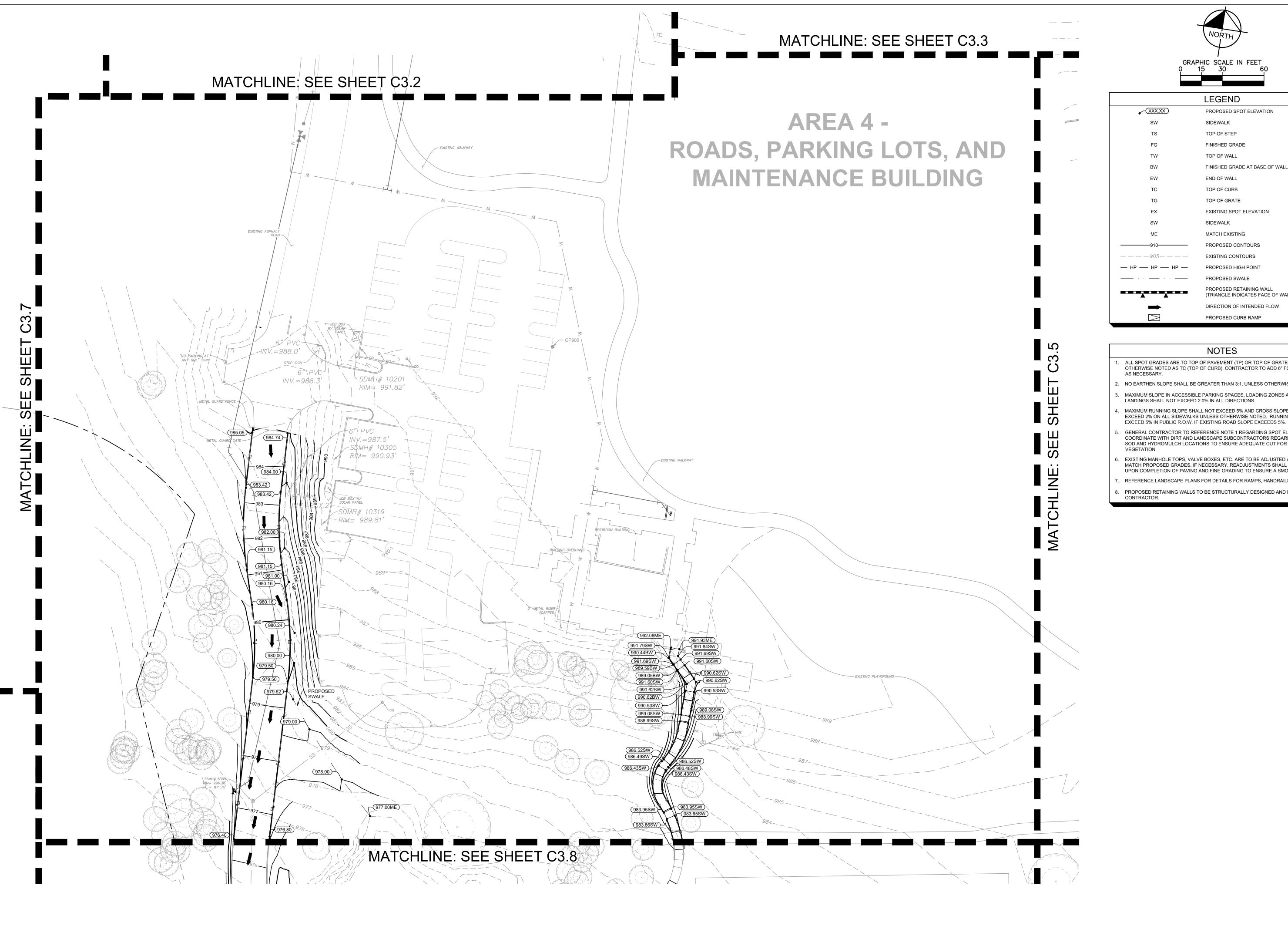


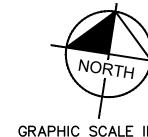
Project No.: 068710058 10/25/2024 Drawn By: NATE W.

Checked By: JASON L. Sheet Title

GRADING PLAN (SHEET 5 OF 8)

Sheet Number Project Page Number





| | LEGEND |
|-------------------|-----------------------------------|
| ∠ (XXX.XX) | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| TC | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| | PROPOSED RETAINING WALL |
| | (TRIANGLE INDICATES FACE OF WALL) |
| - | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

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- PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY





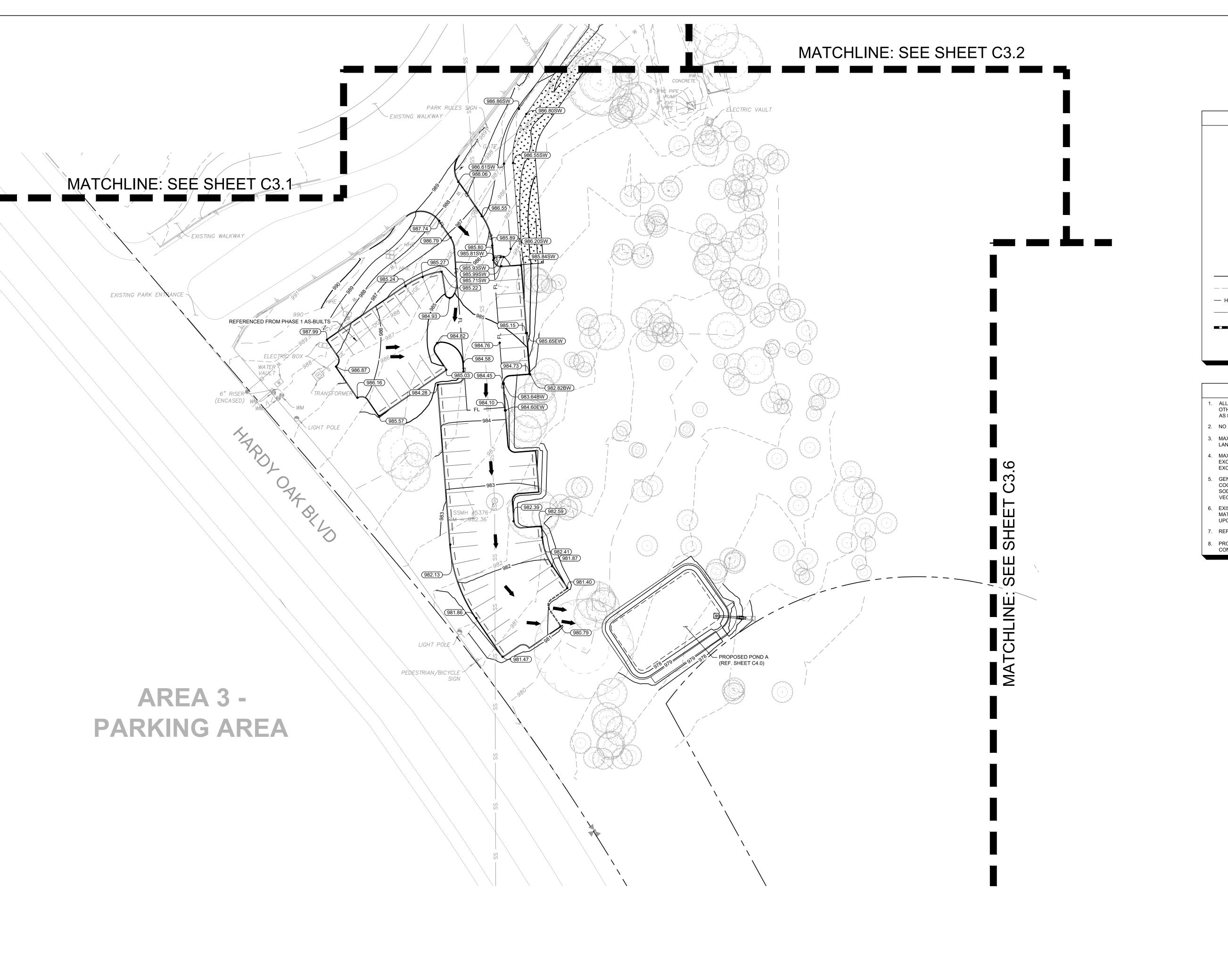


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GRADING PLAN (SHEET 6 OF 8)

Sheet Number Project Page Number





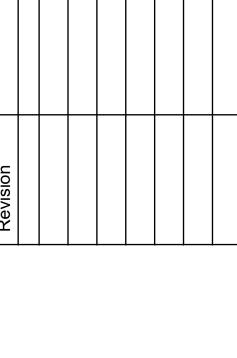
| LEGEND | |
|------------------|--|
| XXXXXX | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| TC | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| <u>-</u> | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) |
| - | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

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- 4. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS UNLESS OTHERWISE NOTED. RUNNING SLOPE MAY EXCEED 5% IN PUBLIC R.O.W. IF EXISTING ROAD SLOPE EXCEEDS 5%.
- 5. GENERAL CONTRACTOR TO REFERENCE NOTE 1 REGARDING SPOT ELEVATIONS, COORDINATE WITH DIRT AND LANDSCAPE SUBCONTRACTORS REGARDING PROPOSED SOD AND HYDROMULCH LOCATIONS TO ENSURE ADEQUATE CUT FOR FUTURE EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO
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- REFERENCE LANDSCAPE PLANS FOR DETAILS FOR RAMPS, HANDRAILS AND STAIRS. PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.







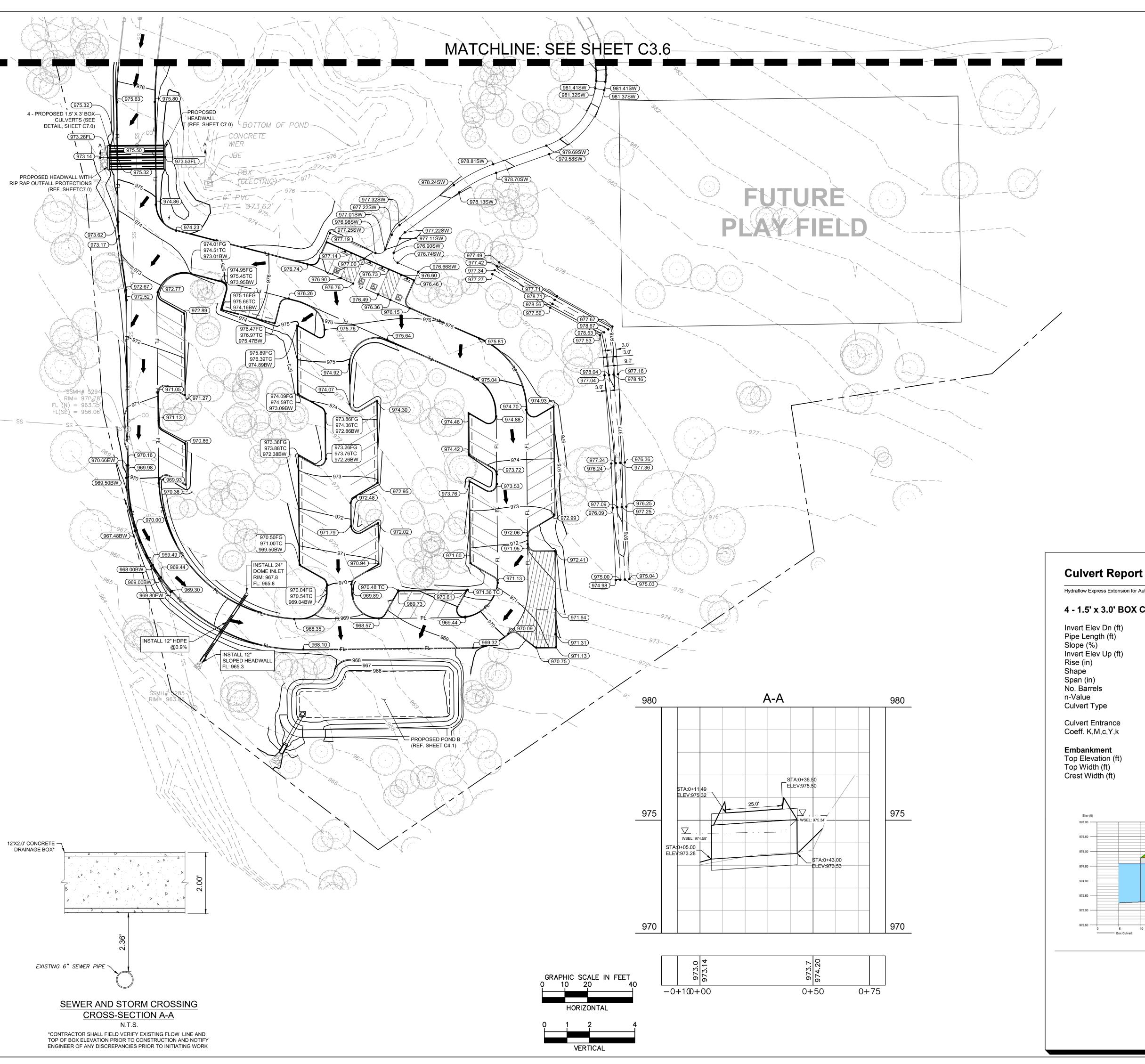


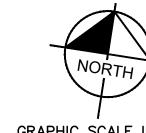


Project No.: 068710058 lssued: 10/25/2024 Drawn By: NATE W.
Checked By: JASON L.

GRADING PLAN (SHEET 7 OF 8)

Sheet Number



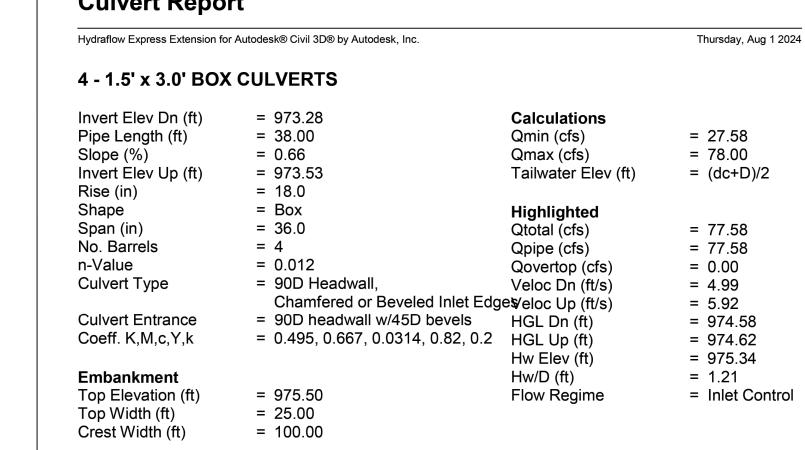


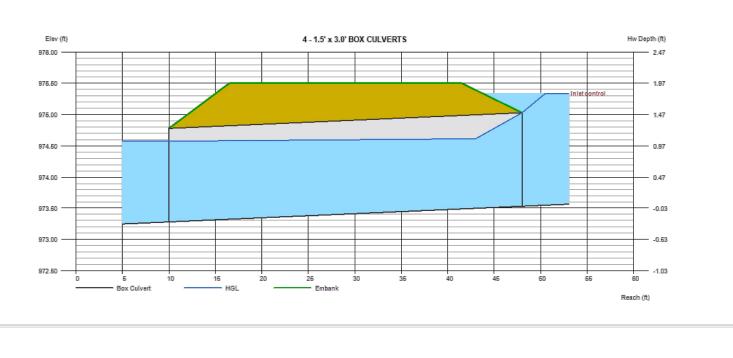
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| | LEGEND |
|------------------|--|
| XXXXXX | PROPOSED SPOT ELEVATION |
| SW | SIDEWALK |
| TS | TOP OF STEP |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| BW | FINISHED GRADE AT BASE OF WALL |
| EW | END OF WALL |
| TC | TOP OF CURB |
| TG | TOP OF GRATE |
| EX | EXISTING SPOT ELEVATION |
| SW | SIDEWALK |
| ME | MATCH EXISTING |
| 910 | PROPOSED CONTOURS |
| | EXISTING CONTOURS |
| — HP — HP — HP — | PROPOSED HIGH POINT |
| | PROPOSED SWALE |
| | PROPOSED RETAINING WALL (TRIANGLE INDICATES FACE OF WALL) |
| - | DIRECTION OF INTENDED FLOW |
| | PROPOSED CURB RAMP |

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- PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY







PHOFINAL TARTIE

Kimley

100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024

Issued: Drawn By: NATE W. Checked By: JASON L.

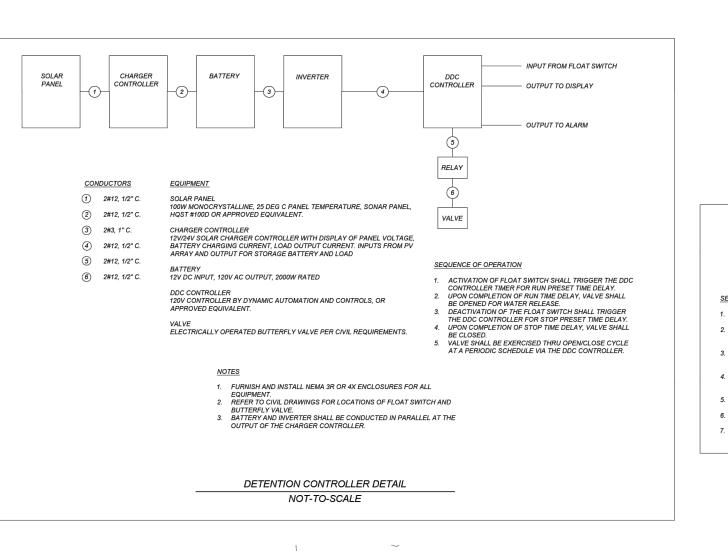
GRADING PLAN (SHEET 8 OF 8)

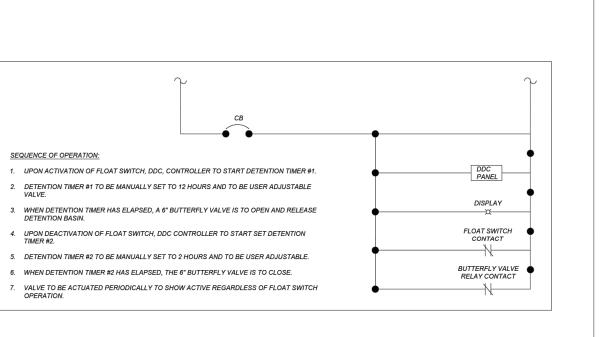
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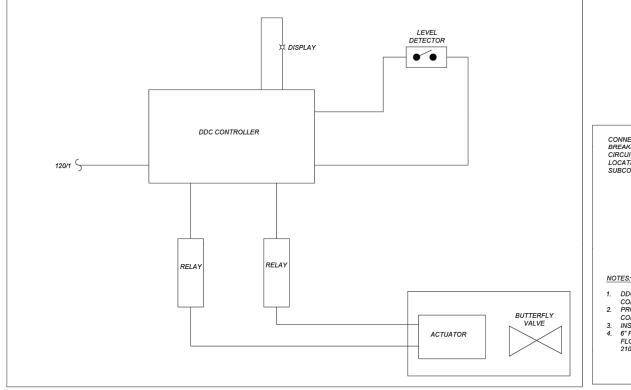
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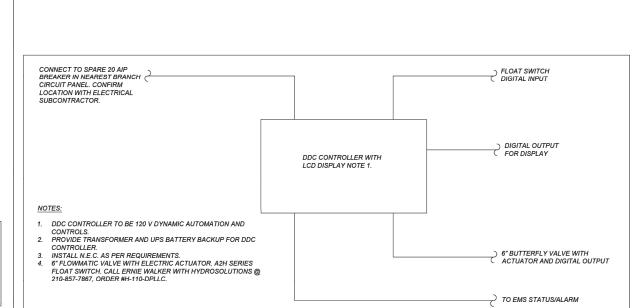
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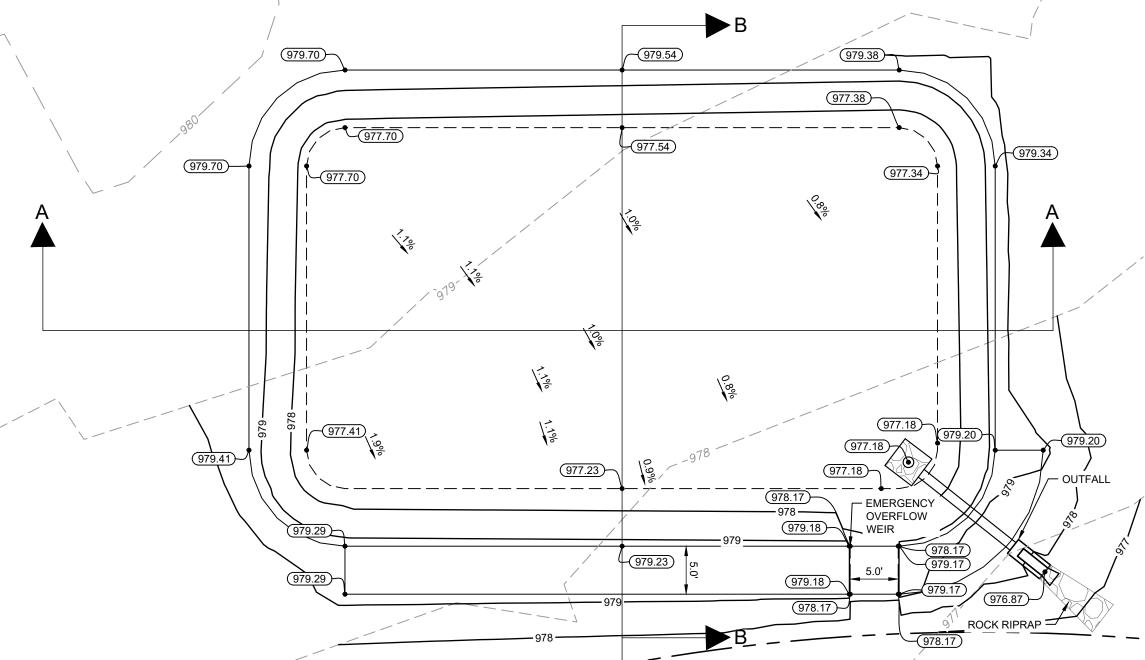
Project Page Number











WATER POLITITION ABATEMENT PLAN

WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

EDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES - LEGAL DISCLAIMER

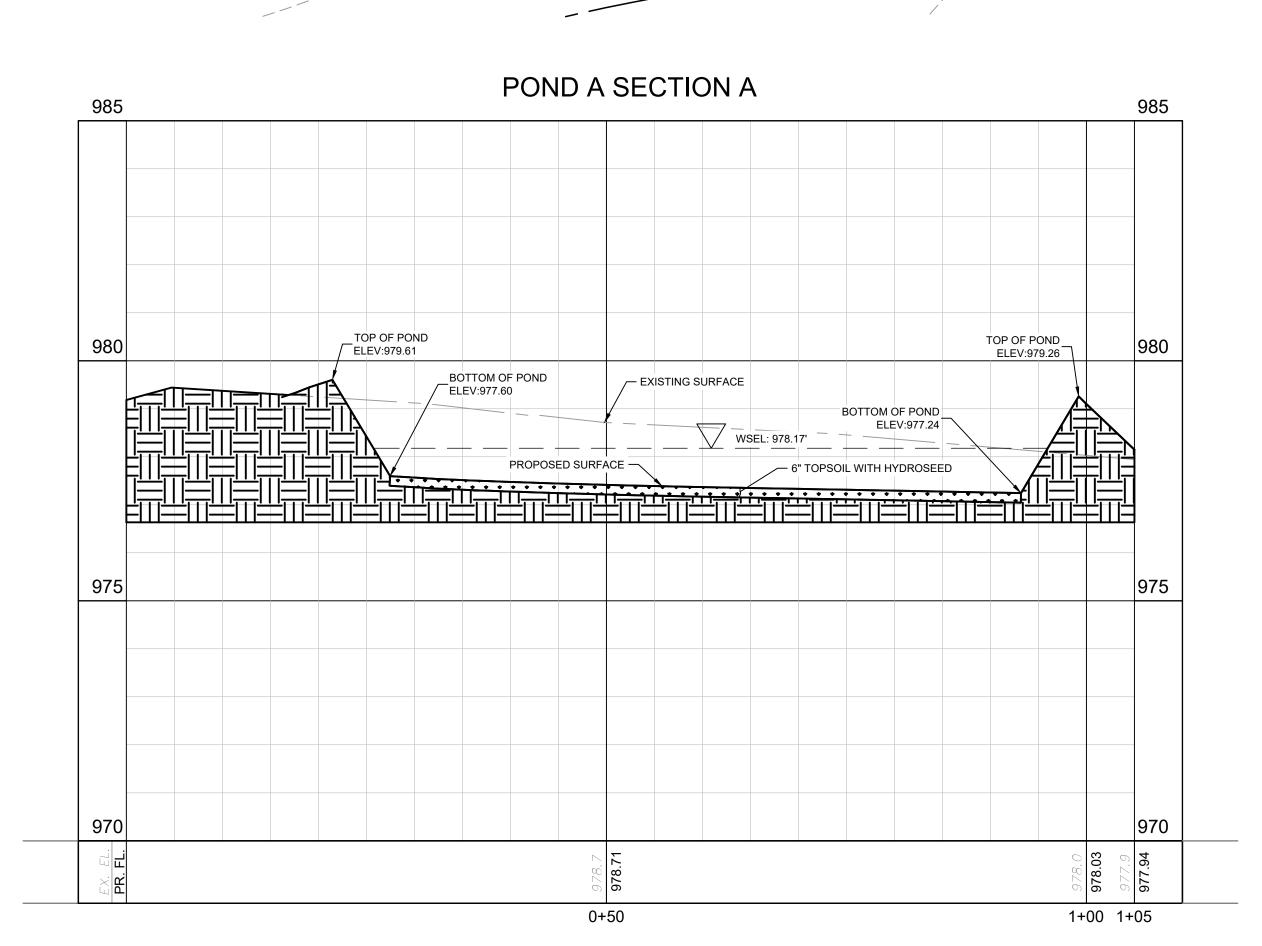
THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY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

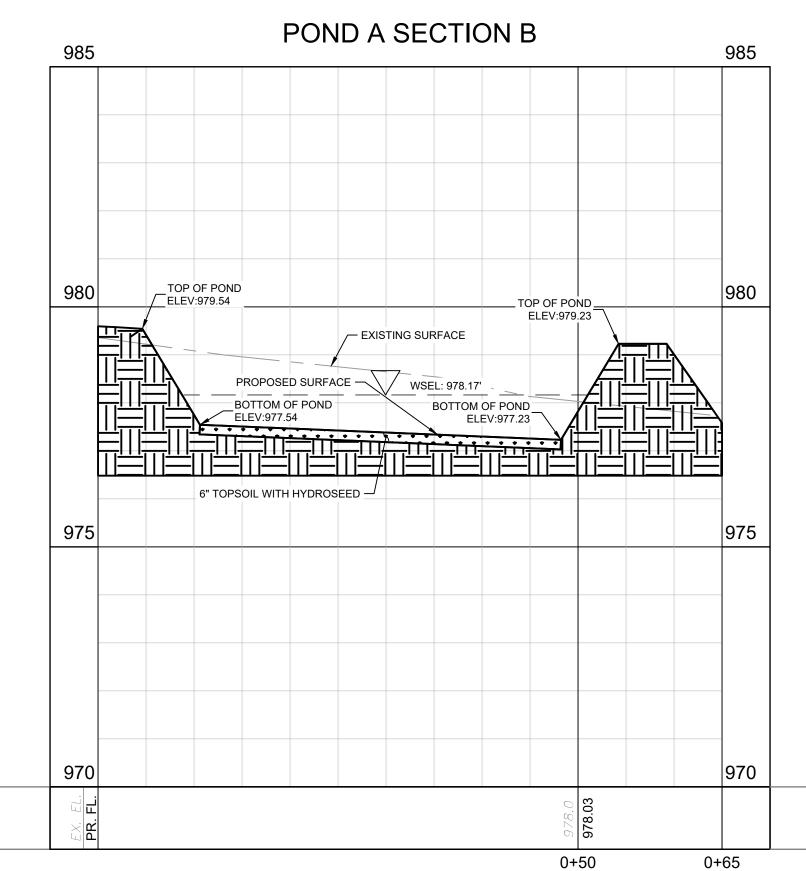
- 1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
- THE NAME OF THE APPROVED PROJECT THE ACTIVITY START DATE; AND
 THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
- 2. ALL CONTRACTORS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

AUSTIN REGIONAL OFFICE

PHONE (512) 339-2929

SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490-3096 FAX (210) 545-4329





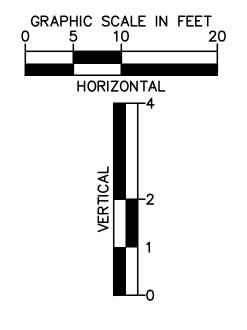
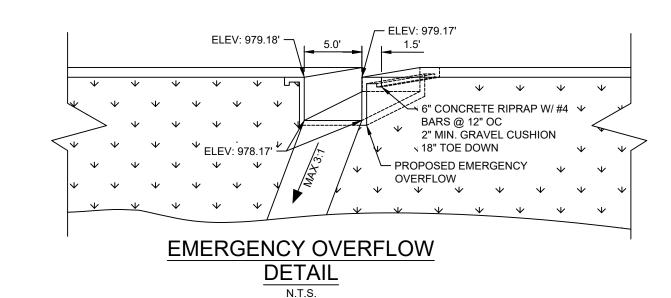
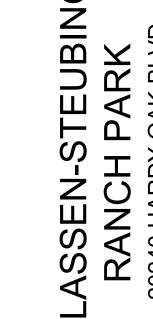


Figure 3-24 Detail of Sedimentation Riser Pipe



EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF





LEGEND

PROPOSED PROPERTY BOUNDARY

PROPOSED STORM DRAIN (>/=12")

EXISTING EDGE OF ASPHALT

PROPOSED ROCK RIPRAP

PROPOSED HEADWALL

EXISTING TREE

STORM NOTES

. REFERENCE STORM SEWER NOTES ON SHEET C6.0 FOR PIPE MATERIAL REQUIREMENTS

CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

1.5" K 1.5" Galvanized Angle Iron Trasi Rack Support set into Concrete Pad

Removable Trash Rock made from Galvanized Welded Wire Fabric. Opening Size: I" X I"

Come of 2"-3" Gravel Surrounding

Galvanized Strap with Anchor Bolt

- Trash Rack Support

Locate Splice near Support Splice with Galvanized "J" Clips

Source: COA

. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.

REFERENCE SHEET C6.0 FOR STORM SEWER DETAILS.

CONTACT ENGINEER IF FIELD CONDITIONS VARY.

Side View of Riser

Top View of Riser (Square Design)

12"—12"—12"—12"—16"—

PROPOSED CONCRETE RIPRAP

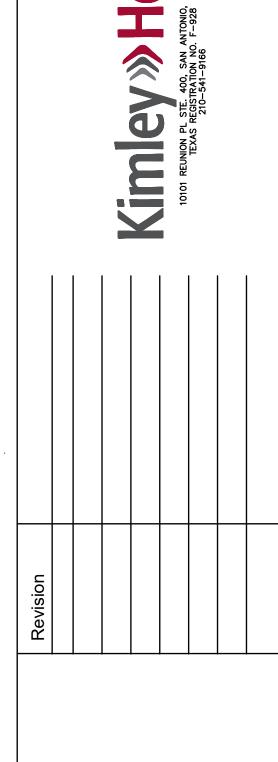
EXISTING PROPERTY LINE

PROPOSED EASEMENT

EXISTING EASEMENT









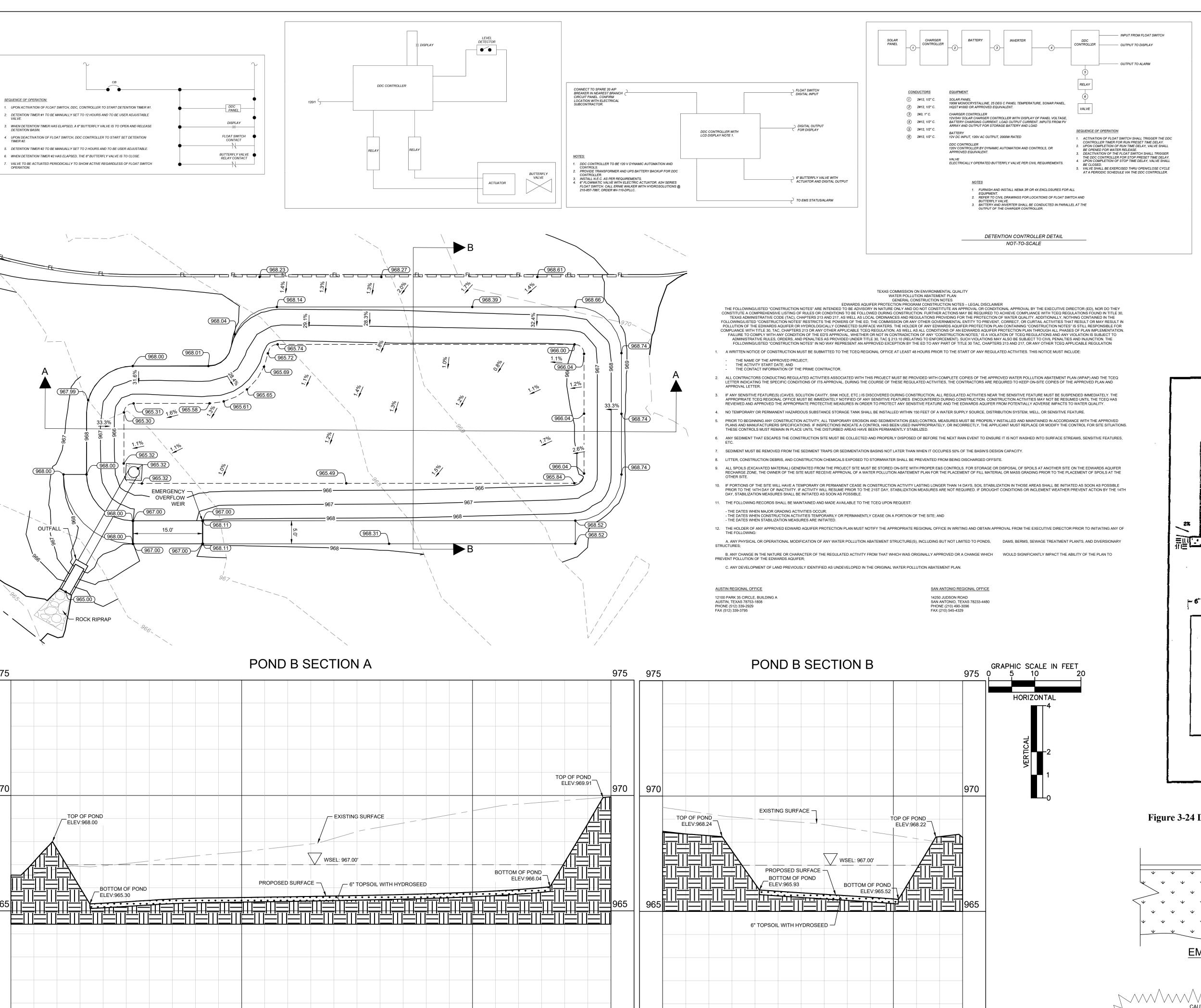
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Sheet Title

WATER QUALITY POND A

Sheet Number

Project Page Number C4.0



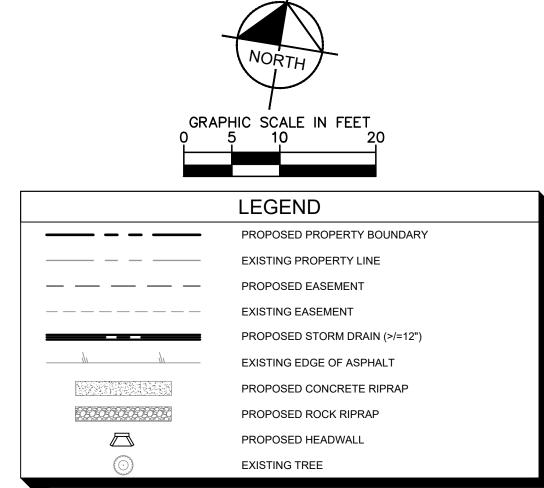
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0+50

0+65

0+50

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- . ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE. REFERENCE STORM SEWER NOTES ON SHEET C6.0 FOR PIPE MATERIAL REQUIREMENTS
- REFERENCE SHEET C6.0 FOR STORM SEWER DETAILS.
- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.

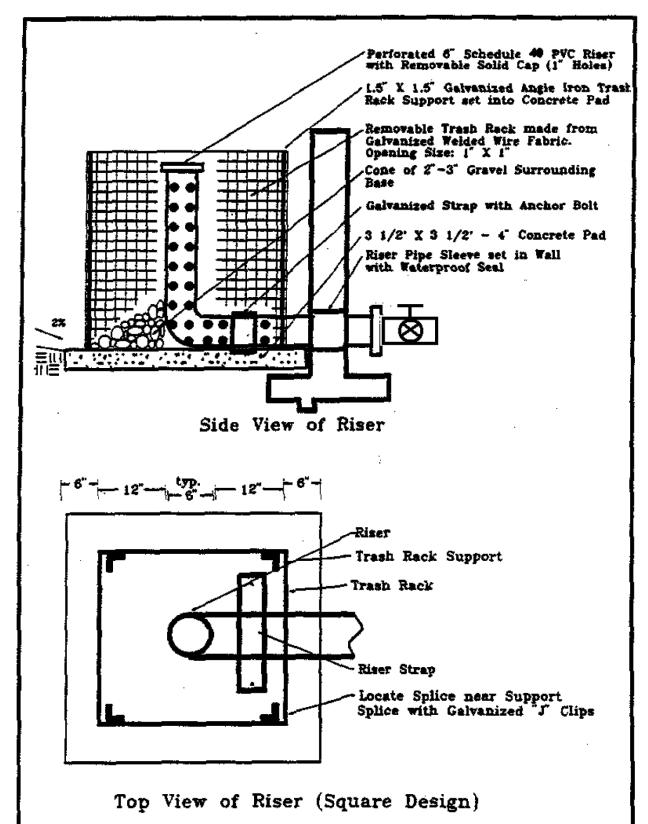
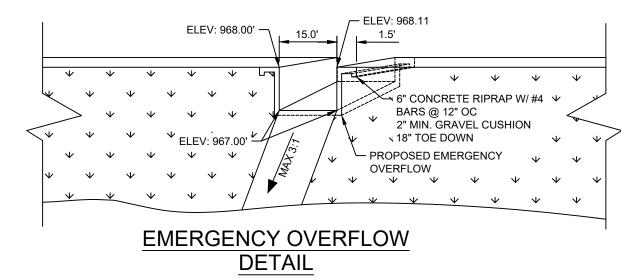


Figure 3-24 Detail of Sedimentation Riser Pipe



EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Source: COA



10/25/2024 Drawn By: NATE W. Checked By: JASON L

Sheet Title

WATER QUALITY POND B

Sheet Number C4.1

Project Page Number

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
- A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1
- CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290. B. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS,
- STREETS AND DRAINAGE" C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION".
- D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION"

E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).

- THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
- THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE NOTED WITHIN
- THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING
- LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE
- SUPPLIED FOR VERIFICATION PURPOSES: • SAWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES • COSA DRAINAGE (210) 207-0724 OR (210) 207-6026 • COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
- COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 • TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
- ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
- D. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT
- 1. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG. WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION
- REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG. ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL

CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK.

- 2. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
- 13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

WATER SECTION

- PRIOR TO TIE-INS. ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
 - FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOSCONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)
- . SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS, IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

5. ALL VALVES SHALL READ "OPEN RIGHT".

- . PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 643 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 643 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER. AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.

8. BACKFLOW PREVENTION DEVICES:

- ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
- ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR
- 10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR CONTRACTOR, OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING

MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

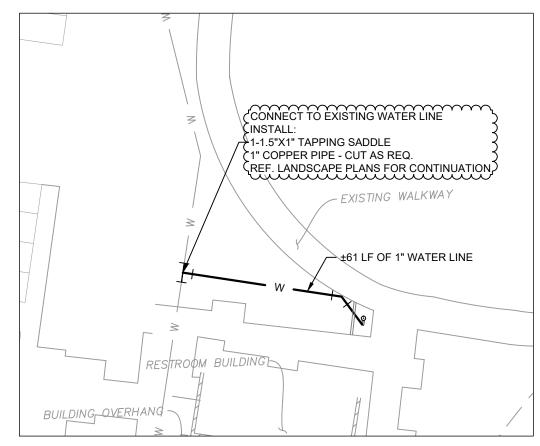
- 1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN
- SSO OCCUR, THE CONTRACTOR SHALL: A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210) 233-2014. PROVIDE THE ADDRESS OF THE SPILL AND AN
- ESTIMATED VOLUME OR FLOW. B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO. C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE
- CONTAMINATION OF WATERWAYS D. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
- E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS. F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24
- SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA, TCEQ AND/OR ANY OTHER FEDERAL, STATE OR LOCAL AGENCIES.
- NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS. 2. IF BYPASS PUMPING IS REQUIRED. THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER
- 3. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE

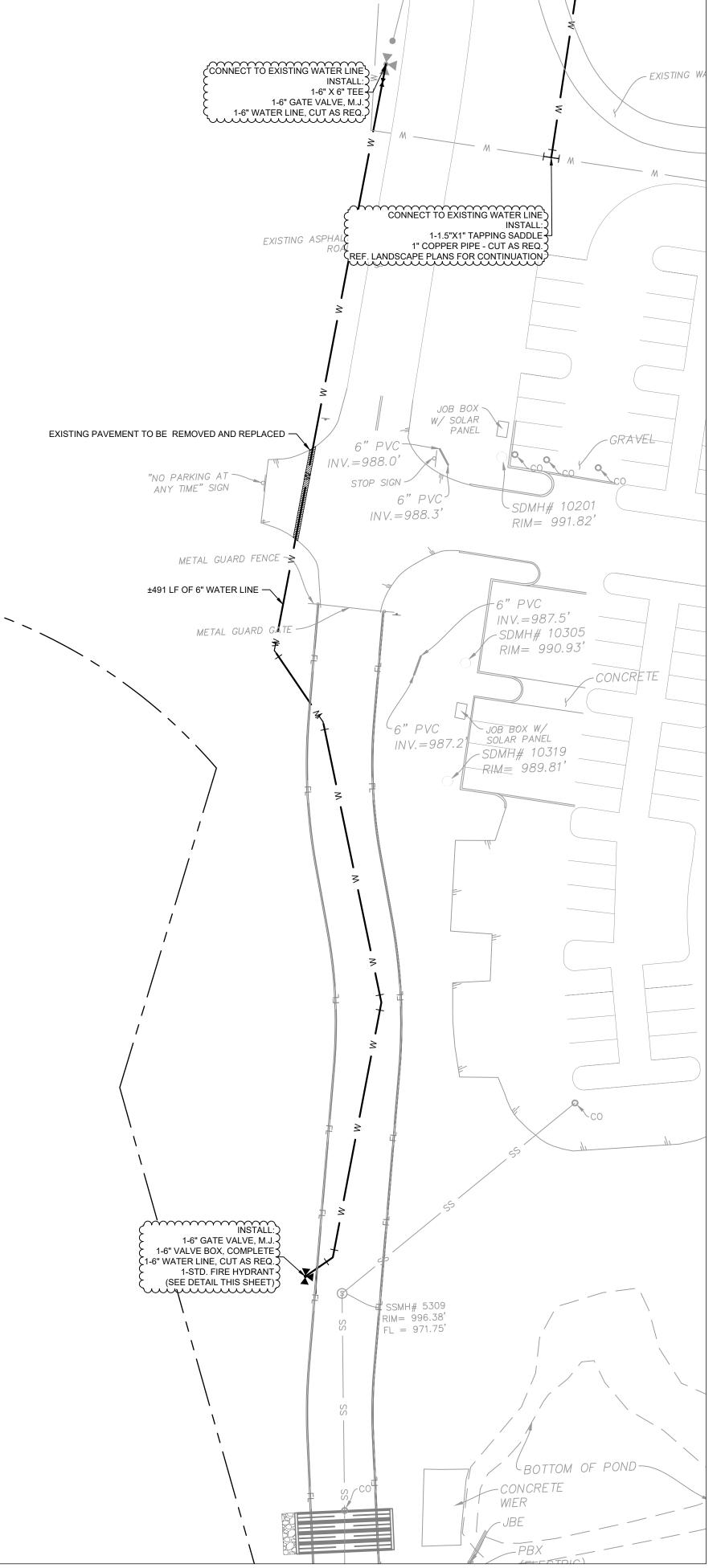
CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

- 4. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(E)(4)(B). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI PRESSURE RATED PVC AT THE PROPOSED WATER CROSSING.
- 5. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP

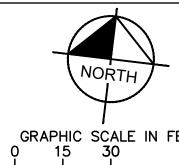
OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI)

- 6. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE REGARDLESS OF SIZE.
- 7. MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
- 8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

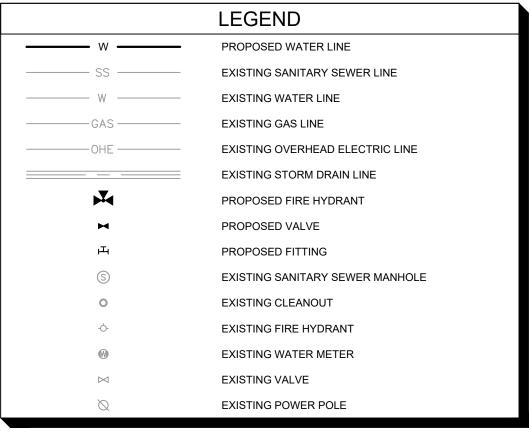




±400 LF OF 1" WATER LINE —



GRAPHIC SCALE IN FEET

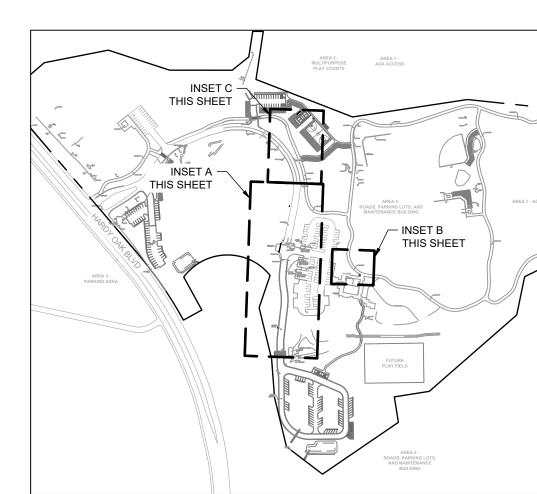


NOTES

- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.
- 2. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.
- UTILITY CONNECTIONS TERMINATE 5' FROM BUILDING ENVELOPE. SEE ARCHITECT AND
- 4. VALVES 12" AND UNDER WILL BE RESILIENT SEAT GATE VALVES (RSGV).

MEP PLANS FOR CONTINUATION.

- 5. WATER METER AND SERVICE TO BE INSTALLED BY SAWS AT OWNERS EXPENSE.
- FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A LICENSED FIRE SPRINKLER
- REFER TO SAWS DESIGN GUIDELINES FOR ALL WATER METER AND FIRE HYDRANT
- REFER TO SAWS STANDARD CONSTRUCTION DETAILS FOR ALL SANITARY SEWER MANHOLES AND CLEANOUTS.
- ALL FITTINGS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL BE MECHANICALLY
- CONTRACTOR SHALL REFER AND ADHERE TO ALL TCEQ DESIGN GUIDELINES (CHAPTER 217 AND 290) FOR ALL UTILITY CROSSINGS REQUIREMENTS.
- CONTRACTOR TO CHECK THAT EXISTING WATER LINES MEET SAWS MINIMUM COVER. IF NOT, CONTRACTOR TO INSTALL 45DEG VERTICAL BENDS WHERE NECESSARY TO
- MAINTAIN MINIMUM COVER. REFERENCE WATER AND SANITARY SEWER NOTES ON SHEET C1.0 FOR ADDITIONAL
- 13. REFERENCE SHEET C1.0 WATER AND SEWER STANDARD DETAILS.



LOCATION MAP ADDRESS: 20240 HARDY OAK BLVD, SAN ANTONIO, TX 78258 LEGAL DESCRIPTION: NCB 19221 BLK LOT P-26B

BENCHMARK LIST

MAG NAIL SET IN CURB N: 13,779,134.10 E: 2,135,300.85 ELEVATION: 995.54

CP 901 MAG NAIL SET IN CURB N: 13,779,414.99 E: 2,134,030.05 **ELEVATION: 1010.28'**

CP 902 MAG NAIL SET IN CURB N: 13.777.728.43 E: 2,135,076.01 ELEVATION: 1003.64





Project No.: 068710058 10/25/2024 Issued:

UTILITY PLAN

C5.0

INSET C

- EXISTING WALKWAY

±400 LF OF 1" WATER LINE -

"NO PARKING ANYTIME"

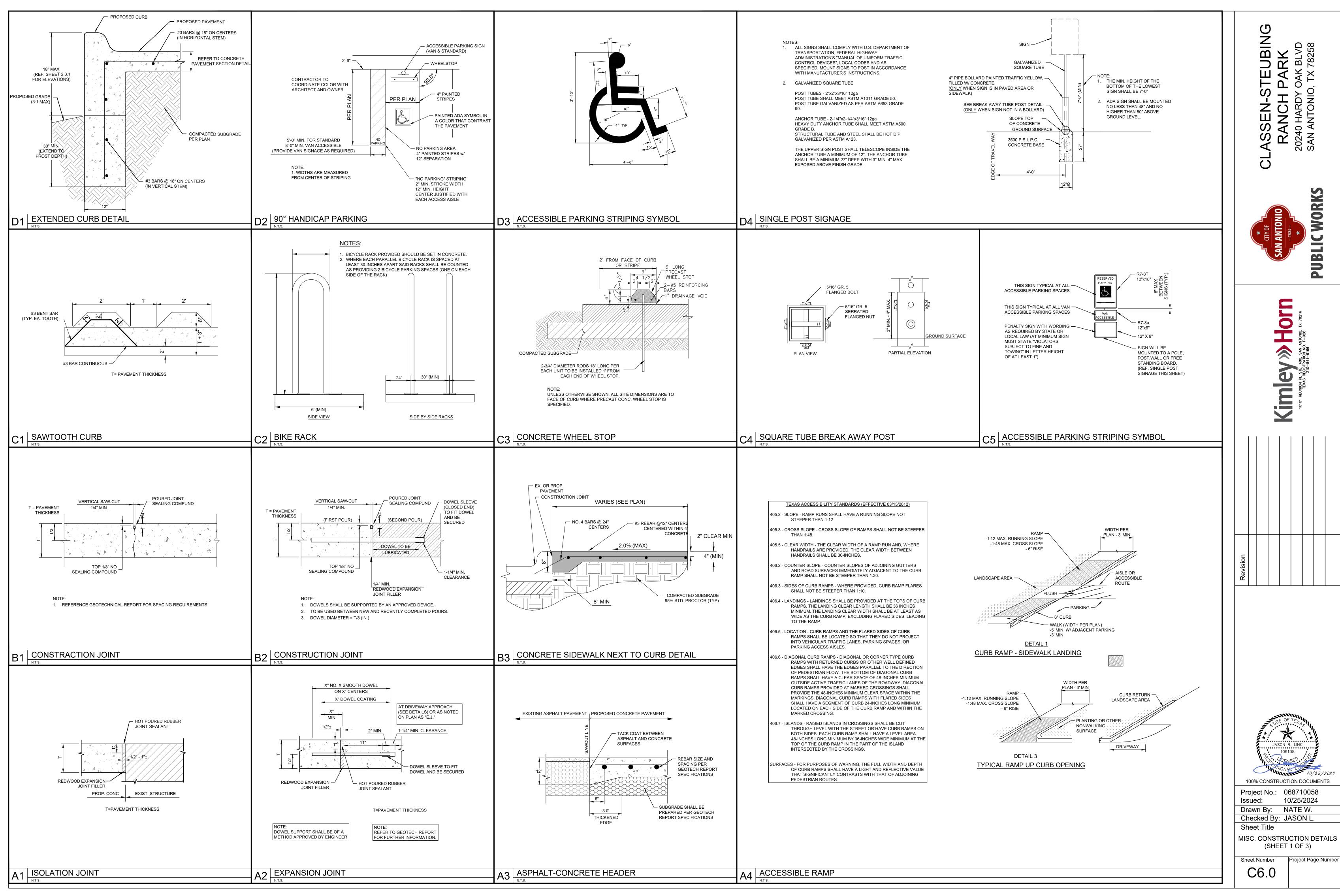
INSET A

0

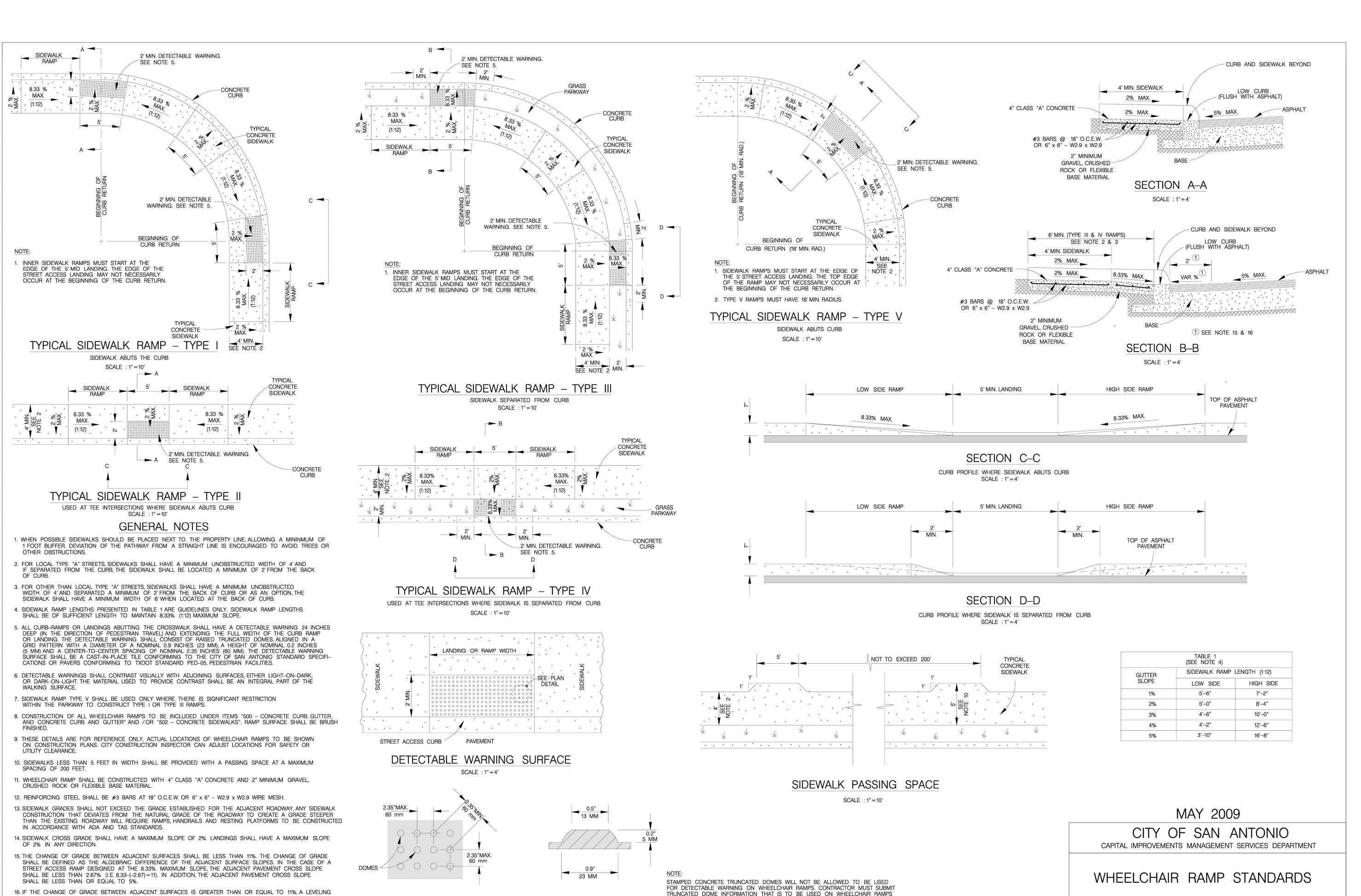
imley

Drawn By: NATE W. Checked By: JASON L Sheet Title

Project Page Number



PUBLIC WORKS



DOME SECTION

NO SCALE

TO THE PROJECT MANAGER FOR APPROVAL AT LEAST 30 DAYS PRIOR TO INSTALLATION.

STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.

OF A PLANNED PROJECT.

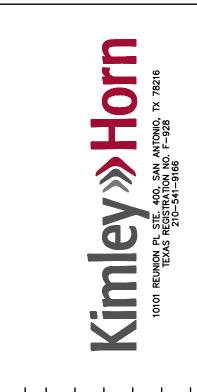
17. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS, BOUNDARIES OR SCOPE

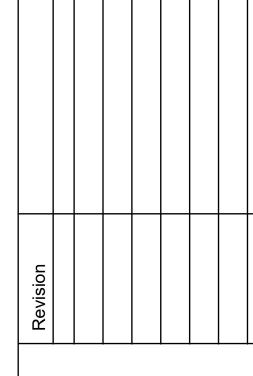
PLAN DETAIL

NO SCALE

20240 SAN A









100% CONSTRUCTION DOCUMENTS

Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

Checked By: JASON L Sheet Title

MISC. CONSTRUCTION DETAILS (SHEET 2 OF 3)

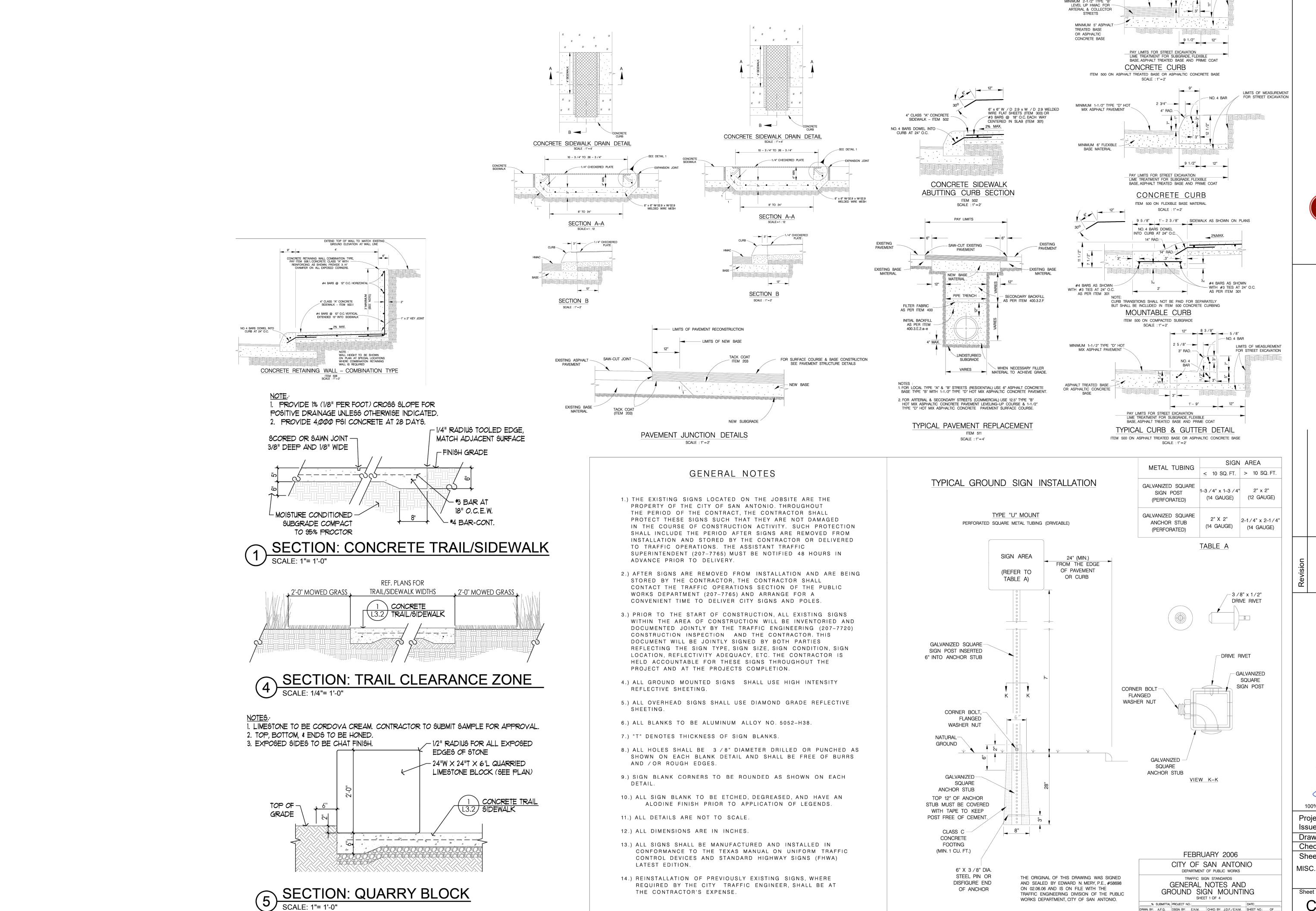
Project Page Number Sheet Number

C6.

% SUBMITTAL PROJECT NO.:

CHKD. BY: R.S. HOSSEINI, P.E. SHEET NO.: OF_

DRWN. BY: V. VASQUEZ DSGN. BY:_



 \sim \sim

9" NO. 4 BAR LIMITS OF MEASUREMENT FOR STREET EXCAVATION

MINIMUM 1-1/2" TYPE "D" HOT

WORKS DEPARTMENT, CITY OF SAN ANTONIO.

____% SUBMITTAL PROJECT NO.:_

DRWN. BY: __A.F.G. __DSGN. BY: __E.N.M. __CHKD. BY: __J.D.F./E.N.M. __SHEET NO.: __OF__



PUBLIC

O Kim

JASON R. LINK

100% CONSTRUCTION DOCUMENTS

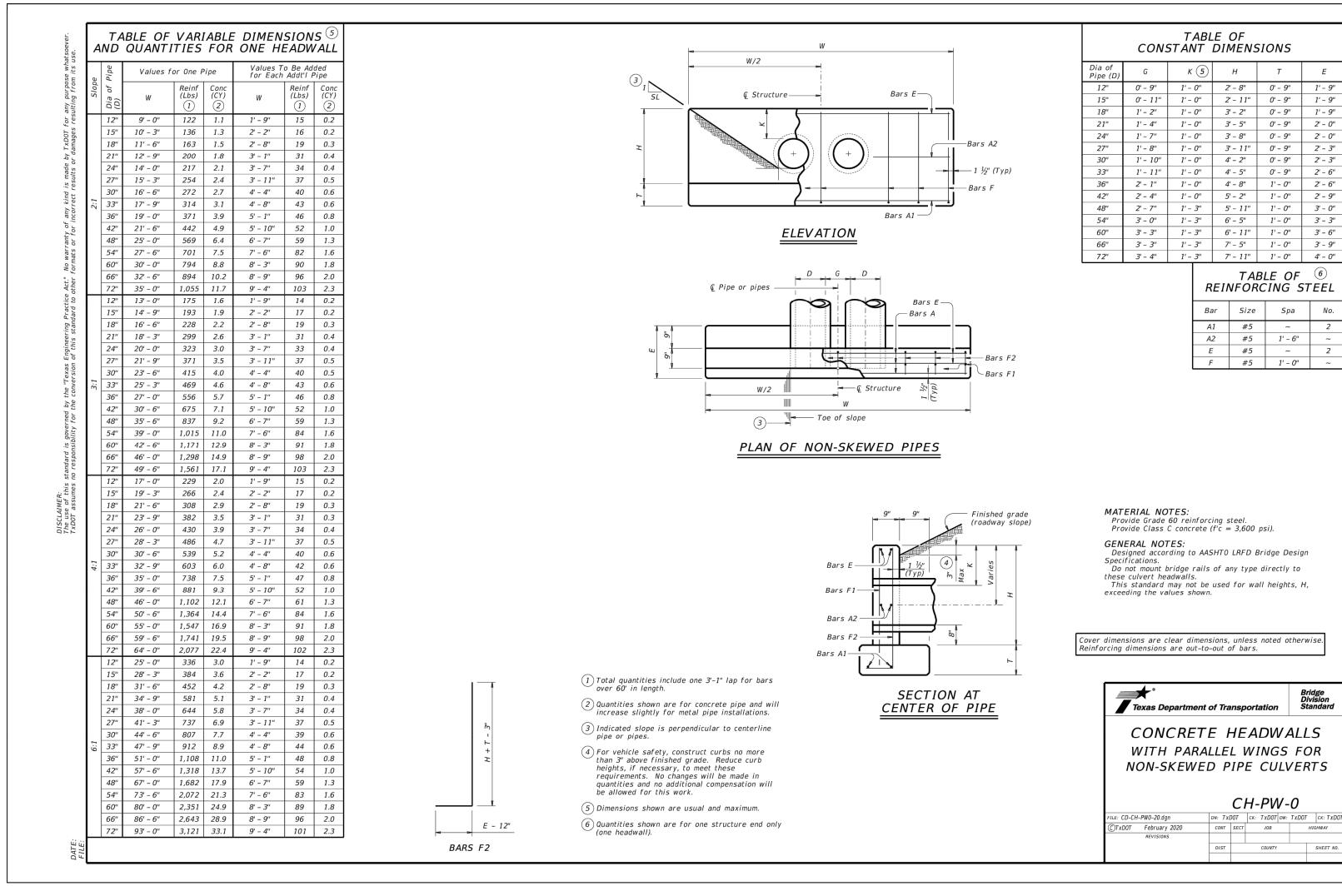
Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W. Checked By: JASON L

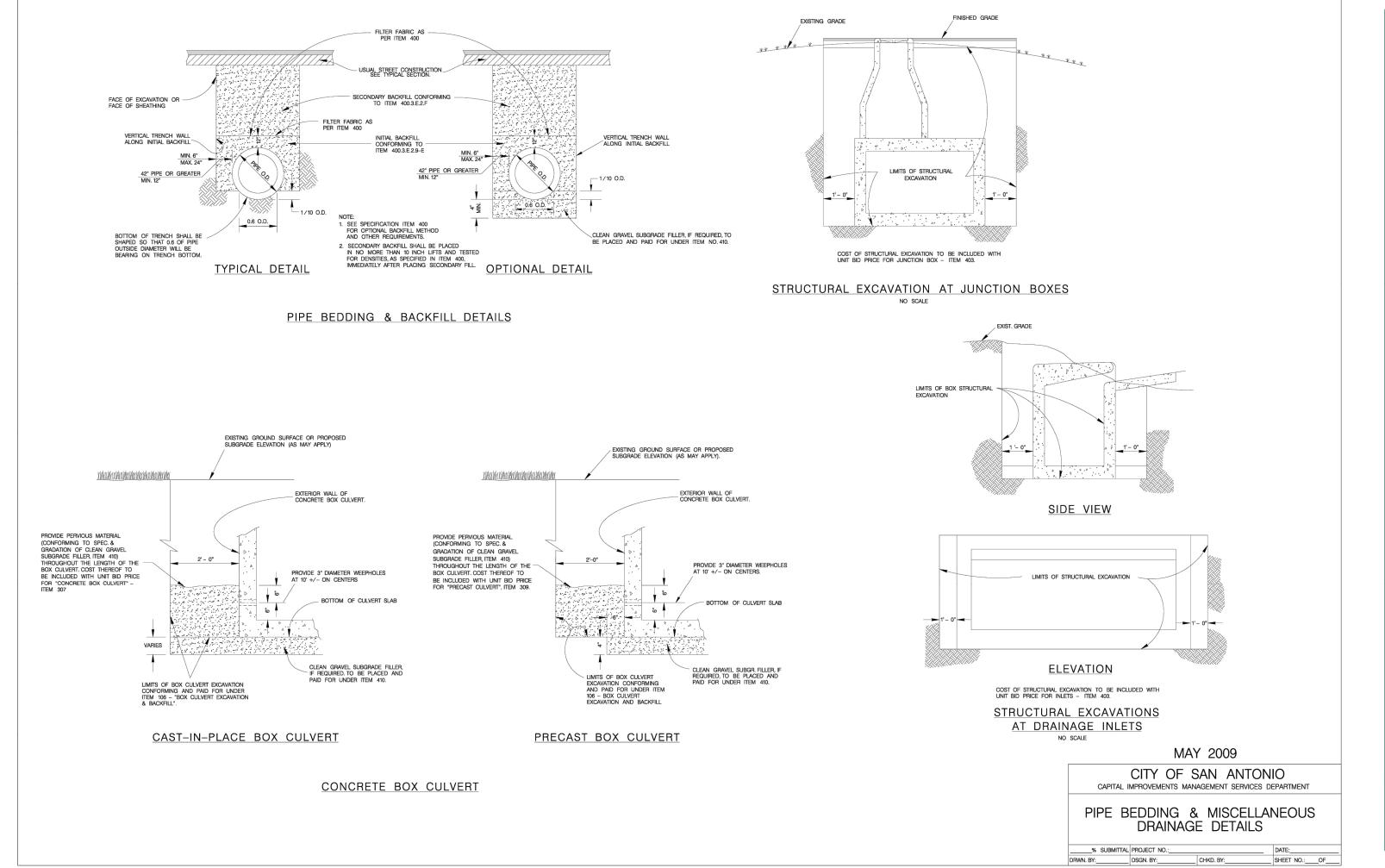
Sheet Title MISC. CONSTRUCTION DETAILS

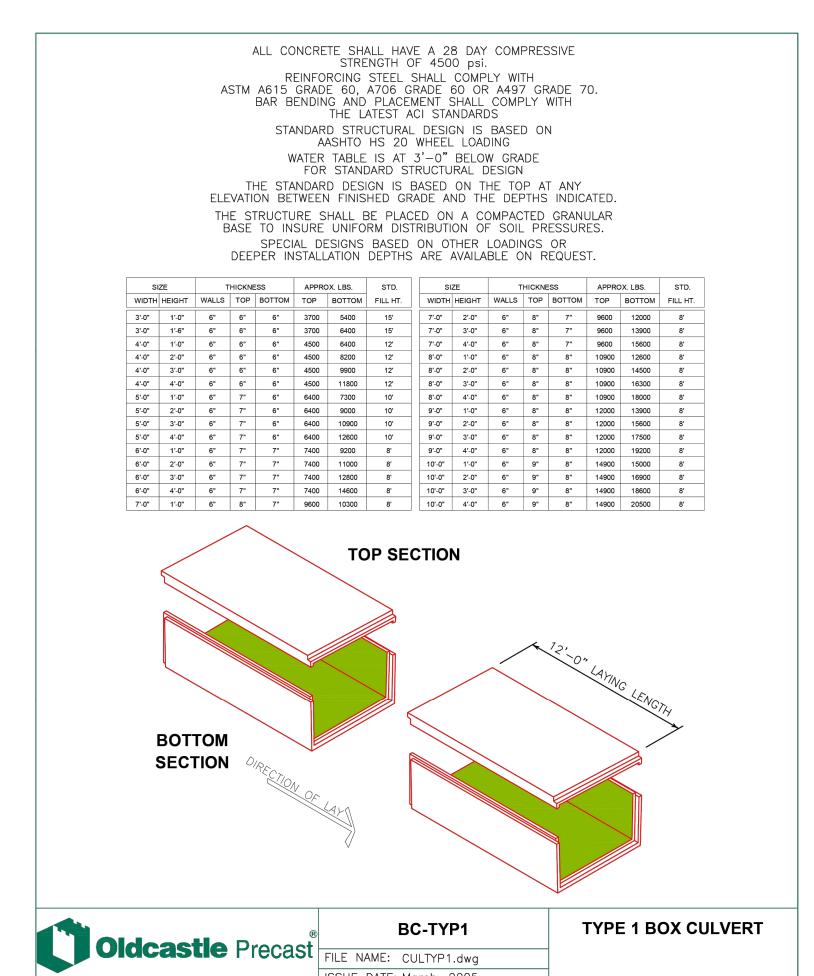
(SHEET 3 OF 3)

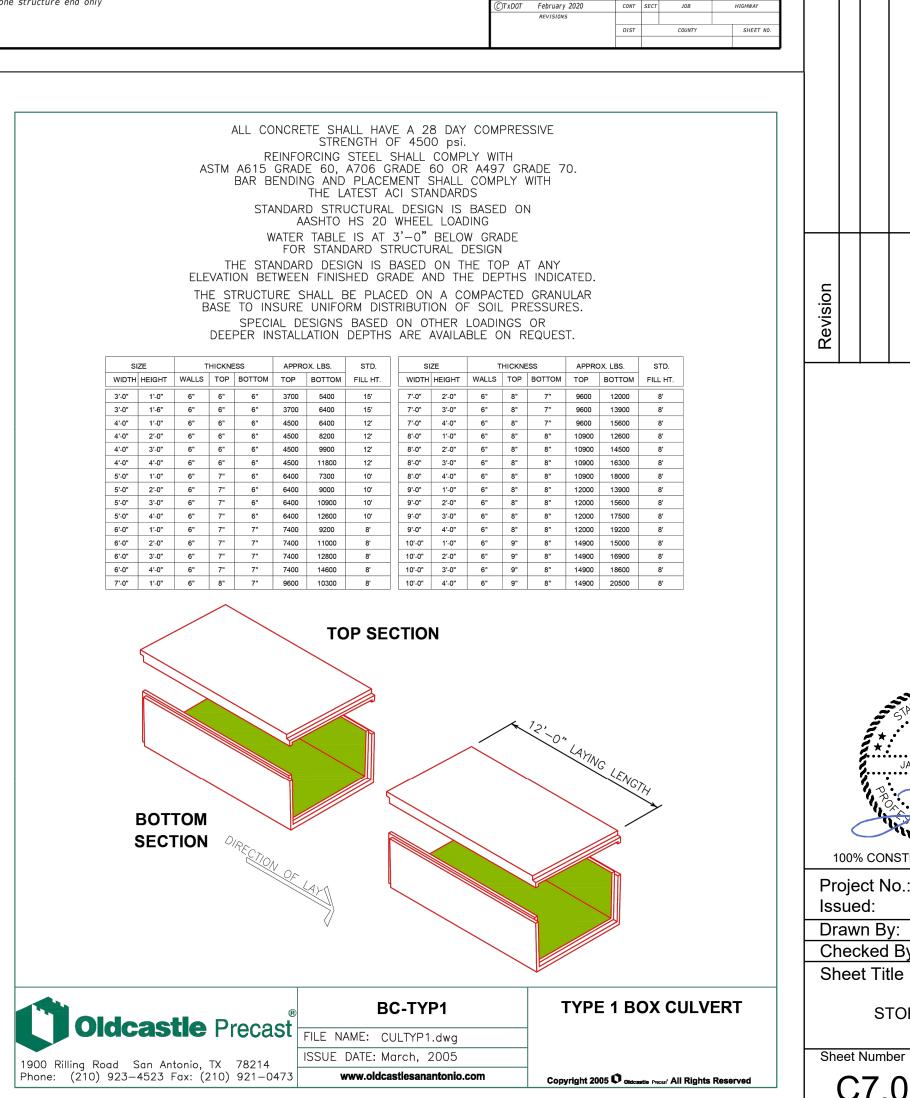
Project Page Number

Sheet Number C6.2





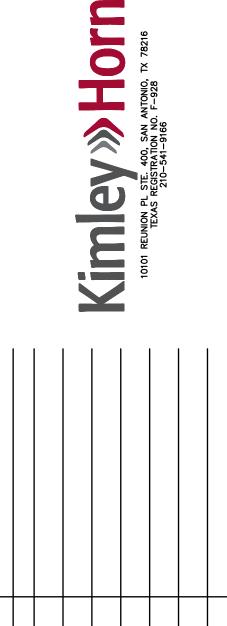














Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W. Checked By: JASON L

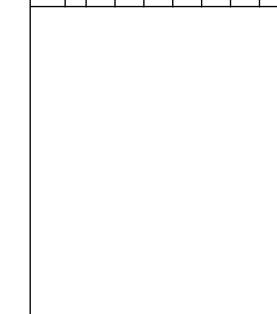
STORM DETAILS

Project Page Number Sheet Number











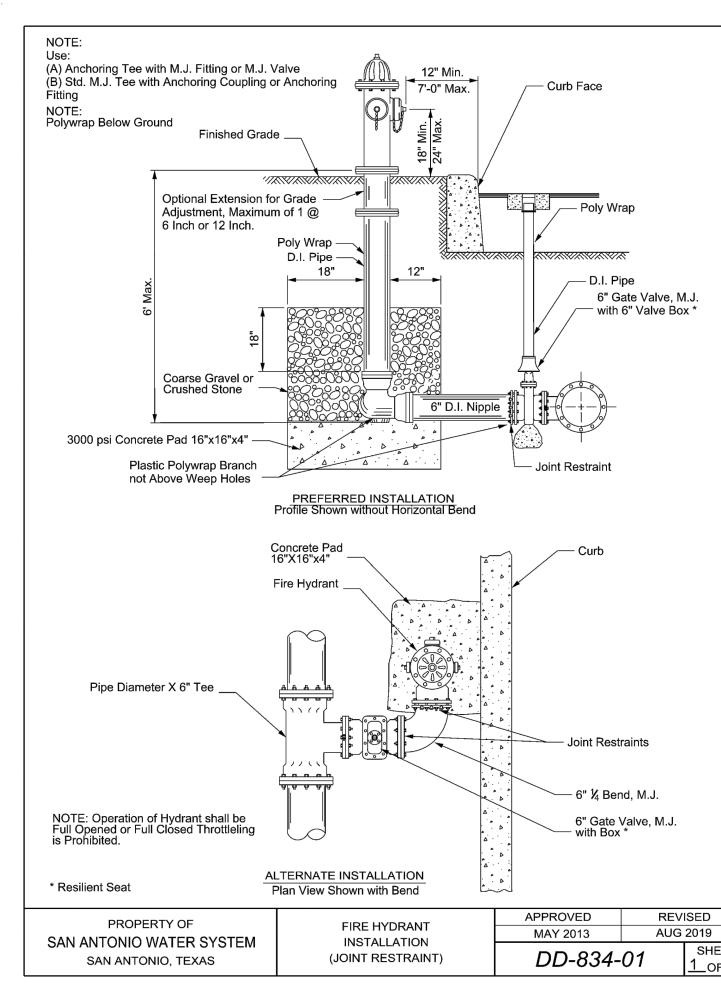
100% CONSTRUCTION DOCUMENTS Project No.: 068710058 10/25/2024 Issued: Drawn By: NATE W.

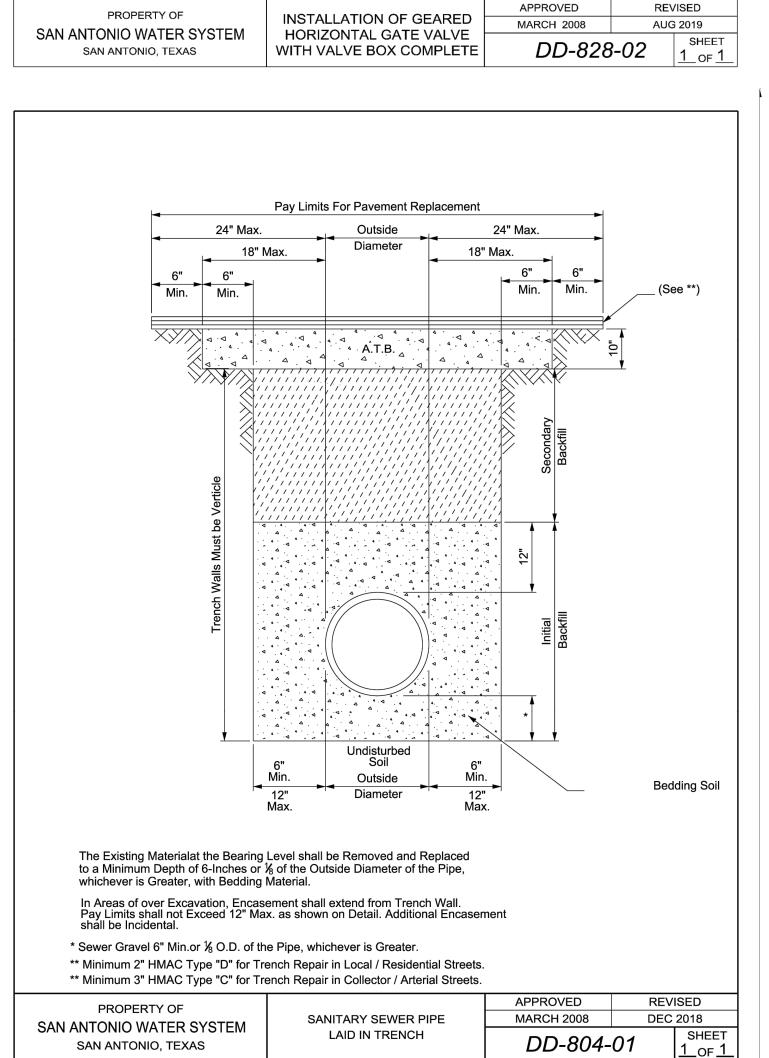
Checked By: JASON L. Sheet Title

UTILITY DETAILS

Project Page Number

Sheet Number C8.0





Gate valves constructed in the terrace shall be constructed with

C.I. cap to be labeled "WATER"

Standard Valve Box Assembly

Burlap packing around

valve casting and base of 6" Valve Box boot

Concrete Blocking

(As Required)

© Valve Stem

No. 3 Bars

↑ 2" Min. / 4" Max. ↓ Clearance

Existing or Proposed grade -

Concrete grout around base of boot to keep dirt out of valve stem. _

Place tar paper between valve

gear case

Note: All Concrete to be 3,000 psi.

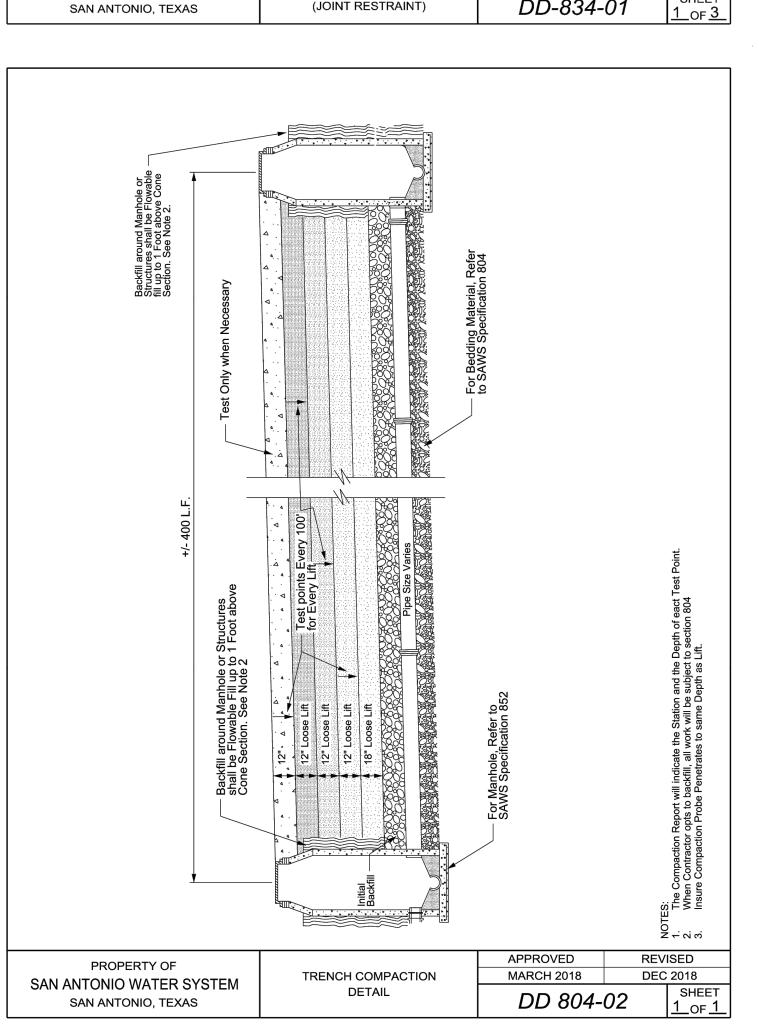
Horizontal bevel geared Gate Valve with enclosed -

casting and grout.

6" Min. Concrete Collar around Valve Box where subject to

6" D.I. Pipe -

vehicular traffic



Gate valves constructed in the terrace shall be constructed with No. 3 Bars

Existing or Proposed grade -

6" Min. Concrete Collar around Valve Box, where subject to vehicular traffic

Select Material

NOTE: All Concrete to be 3,000 psi

PROPERTY OF

SAN ANTONIO, TEXAS

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

INSTALLATION OF NON-GEARED
GATE VALVE WITH VALVE BOX
AND EXTENSION

C.I. cap to be labeled

- "WATER" or "Division Valve" (When specifically indicated)

Standard Valve Box Assembly

Note: For all work associated with recycled water valves, refer to DD-110-10, Sheet 1 of

DD-828-01

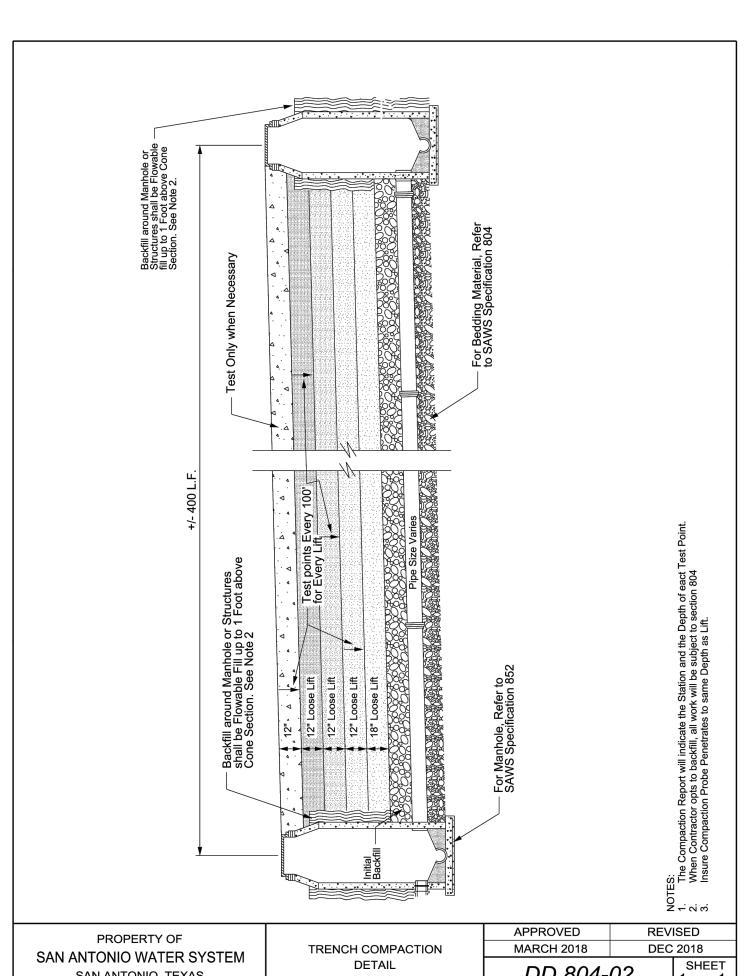
REVISED

APRIL 2014

APPROVED

MARCH 2008

6" Min.





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.

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. Records shall be maintained for a minimum of 3 years and shall be made available to TCEQ upon request. A sample inspection report is included with this attachment.

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 Mailing Address: City, State: Telephone: | City Tower 1 | 00 W. Houston Texas | St., 17th F | | 66 | |
|--|--|--|--|-----------------------------|-------------------------------------|-------------------------------------|
| I, the owner, hav Maintenance Plar acknowledge that until the responsib legal instrument. Signature of Resp | i for the propo I will maintain pility is transfer | sed Permanent responsibility fo red to or assume | Best Manag r the implemed by anothe | gement Pra- ientation an | ctices fo d execut riting thr | r my project. I tion of the plan |
| By: Home | Gra II | | Date(2 | -16-24 | _ | |



Inspection and Maintenance for BMPs

1. WATER QUALITY POND (EXTENDED DETENTION BASIN) Maintenance of an extended detention pond is as follows per TCEQ Guide:

- Basins should be inspected at least twice annually preferably during wet weather.
 Special attention should be paid towards the detention control device to determine proper function and detention timing. Debris and litter should be removed.
- Mowing should be performed twice annually to prevent excess growth inhibiting the function and volume of the pond.
- Erosion control should be controlled, and embankment requirements restored as necessary.
- All structures should be repaired and/or replaced to maintain proper function including but not limited to the repairing/clearing/replacing of concrete structures and cracked pipes.
- Sediment should be removed when the sediment fills 20% of the volume of the pond or at least every 10 years.

2. VEGETATIVE FILTER STRIP

Maintenance of vegetative filter strip is as follows per EPA Guide:

- o Grass height should be limited to 18 inches and mowed regularly.
- Sediment removal is not normally required but in the instance of accumulation, the sediment should be removed with flat-bottomed shovels.
- o Dense healthy grass should be maintained and may require reseeding.



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Personnel Responsible for Inspections

The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification. Documentation of the inspector's qualifications is to be included in the attached Inspector Qualifications Log.

Inspection Schedule

The primary operator is required to choose one of the two inspections listed below.

- Option 1: Once every seven calendar days. If this alternative schedule is developed, then the inspection must occur regardless of whether or not there has been a rainfall event since the previous inspection.
- Option 2: Once every 14 calendar days and within 24 hours of the end of a storm event of two inches or greater.

The inspections may occur on either schedule provided that documentation reflects the current schedule and that any changes to the schedule are conducted in accordance with the following provisions: the schedule may be 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 (e.g., end of "dry" season and beginning of "wet" season).

If option 2 is the chosen frequency of inspections a rain gauge must be properly maintained on site or the storm event information from a weather station that is representative of the site location. For any day of rainfall during normal business hours that measures 0.25 inches or greater, proper documentation of the total rainfall measured for that day must be recorded. Personnel provided by the permittee must inspect:

- disturbed areas of the construction site that have not been finally stabilized;
- areas used for storage of materials that are exposed to precipitation;
- structural controls (for evidence of, or the potential for, pollutants entering the drainage system);
- sediment and erosion control measures identified in the SWP3 (to ensure they are operating
- correctly); and
- locations where vehicles enter or exit the site (for evidence of off-site sediment tracking).

Reductions in Inspection Frequency

Where sites have been finally or temporarily stabilized or where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), inspections must be conducted at least once every month. In arid, semi-arid, or drought-stricken areas, inspections must be conducted at least once every month and within 24 hours after the end of a storm event of 0.5 inches or greater. A record of the total rainfall measured, as well as the approximate



beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections in the attached Rain Gauge Log.

In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.

Inspection Report Forms

Use the Inspection Report Forms given as a checklist to ensure that all required areas of the construction site are addressed. There is space to document the inspector's name as well as when the inspections regularly take place. The tables will document that the required area was inspected. (If there were any areas of concern, briefly describe them in this space with a more detailed description in the narrative section. Use the last table to document any discharges found during the inspections).

Describe how effective the installed BMPs are performing. Describe any BMP failures that were noted during the investigation and describe any maintenance required due to the failure. If new BMPs are needed as the construction site changes, the inspector can use the space at the bottom of the section to list BMPs to be implemented before the next inspection.

Describe the inspector's qualifications, how the inspection was conducted, and describe any areas of non-compliance in detail. If an inspection report does not identify any incidents of non-compliance, then it must contain a certifying signature stating that the facility or site is in compliance. The report must be signed by a person and in a manner required by 30 TAC 305.128. There is space at the end of the form to allow for this certifying signature.

Whenever an inspection shows that BMP modifications are needed to better control pollutants in runoff, the changes must be completed within seven calendar days following the inspection. If existing BMPs are modified or if additional BMPs are needed, you must describe your implementation schedule, and wherever possible, make the required BMP changes before the next storm event.

The Inspection Report Form functions as the required report and must be signed in accordance with TCEQ rules at 30 TAC 305.128.

Corrective Action

Personnel Responsible for Corrective Actions

Both Primary and Secondary Operators are responsible for maintaining all necessary Corrective Actions. If an individual is specifically identified as the responsible party for modifying the contact information for that individual should be documented in the attached Inspector Qualifications Log.

Corrective Action Forms

The Temporary BMPs must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions 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 attached forms and wherever possible those



changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable. Actions taken as a result of inspections must be properly documented by completing the corrective action forms given.

Maintenance

Below are some maintenance practices to be used to maintain erosion and sediment controls:

- 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.

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.



Inspector Qualifications Log*

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

^{*} The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification.



Amendment Log

| No. | Description of the Amendment | Date of Amendment | Amendment Prepared by [Name(s) and Title] |
|-----|------------------------------|----------------------|--|
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Construction Activity Sequence Log

| Name of Operator | Projected dates Month/year | Activity Disturbing Soil clearing, excavation, etc. | Location on-site where activity will be conducted | Acreage being disturbed |
|------------------|-------------------------------|---|---|-------------------------|
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^{*}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.



Stormwater Control Installation and Removal Log

| Stormwater Control | Location On-Site | Installation Date | Removal Date |
|--------------------|------------------|-------------------|--------------|
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Stabilization Activities Log

| Date Activity Initiated | Description of Activity | Description of Stabilization Measure and Location | Date Activity Ceased (Indicate Temporary or Permanent) | Date When Stabilization Measures Initiated |
|----------------------------|-------------------------|--|--|---|
| | | | | |
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Stabilization and erosion control practices may include, but are not limited to: establishing temporary or permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, and protecting existing trees and vegetation. List practices used where they are located, when they will be implemented, and whether they are temporary (interim) or permanent.



Inspection Frequency Log

| Date | Frequency Schedule and Reason for Change |
|------|--|
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Rain Gauge Log

| Date | Location of Rain Gauge | Gauge Reading |
|------|------------------------|---------------|
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| General Information | | | | | | | | |
|---|--|---|--|--|-----------------------|------------|--|--|
| Name of Project | | | Tracking No. | | Inspection Date | | | |
| Inspector Name, Titl Information | e & Contact | | | | | | | |
| Present Phase of Co | nstruction | | | | | | | |
| Inspection Location inspections are required location where this being conducted) | uirèd, specify | | | | | | | |
| - 🗌 Once per | ency: | Every 7 days and within 24 hours of a 0.2 | 15" rain ni-arid, or drought-stricken a | | lry periods or during | g drought) | | |
| If yes, how did you ☐ Rain gauge on | Was this inspection triggered by a 0.25" storm event? ☐ Yes ☐ No If yes, how did you determined whether a 0.25" storm event has occurred? ☐ Rain gauge on site ☐ Weather station representative of site. Specify weather station source: Total rainfall amount that triggered the inspection (in inches): | | | | | | | |
| If "yes", con | ne that any pon nplete the fol | ortion of your site was unsafe for insp | | | | | | |
| - Location | (s) where con | ditions were found: | | | | | | |



| Condition and Effectiveness of Erosion and Sediment (E&S) Controls | | | | | | |
|--|---|-----------------------------------|---|-------|--|--|
| Type/Location of E&S Control | Repairs or Other Maintenance Needed? | Corrective Action Required? | Date on Which Maintenance or Corrective Action First Identified? | Notes | | |
| 1. | □Yes □No | □Yes □No | | | | |
| 2. | □Yes □No | □Yes □No | | | | |
| 3. | □Yes □No | □Yes □No | | | | |
| 4. | □Yes □No | □Yes □No | | | | |
| 5. | □Yes □No | □Yes □No | | | | |
| 6. | □Yes □No | □Yes □No | | | | |
| 7. | □Yes □No | □Yes □No | | | | |
| 8. | □Yes □No | □Yes □No | | | | |
| 9. | □Yes □No | □Yes □No | | | | |
| 10. | □Yes □No | □Yes □No | | | | |



| Condition and Effectiveness of Pollution Prevention (P2) Practices | | | | | | |
|--|---|-----------------------------------|------------------------|-------|--|--|
| Type/Location of P2 Practices | Repairs or Other Maintenance Needed? | Corrective Action Required? | Identification Date | Notes | | |
| 1. | □Yes □No | □Yes □No | | | | |
| 2. | □Yes □No | □Yes □No | | | | |
| 3. | □Yes □No | □Yes □No | | | | |
| 4. | □Yes □No | □Yes □No | | | | |
| 5. | □Yes □No | □Yes □No | | | | |
| 6. | □Yes □No | □Yes □No | | | | |
| 7. | □Yes □No | □Yes □No | | | | |
| 8. | □Yes □No | □Yes □No | | | | |
| 9. | □Yes □No | □Yes □No | | | | |
| 10. | □Yes □No | □Yes □No | | | | |



| Stabilization of Exposed Soil | | | | | |
|-------------------------------|--|---|------------|--|--|
| Stabilization Area | Stabilization Method | Have You Initiated Stabilization? | Notes | | |
| 1. | | YES NO If yes, provide date: | | | |
| 2. | | YES NO If yes, provide date: | | | |
| 3. | | YES NO If yes, provide date: | | | |
| 4. | | YES NO If yes, provide date: | | | |
| 5. | | YES NO If yes, provide date: | | | |
| | Description of I | Discharges | | | |
| | discharge occurring from any part of y ormation for each point of discharge: | our site at the time of the inspection? |] Yes □ No | | |
| Discharge Location | Observations | | | | |
| 1. | Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? Yes No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: | | | | |
| 2. | Describe the discharge: | | | | |
| | At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? Yes No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: | | | | |
| 3. | Describe the discharge: | | | | |
| | At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? Yes No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: | | | | |



| Contractor or Subcontractor Certification and S | ignature |
|---|---|
| "I certify under penalty of law that this document and all attachments were prepared under my direction assure that qualified personnel properly gathered and evaluated the information submitted. Based consisten, or those persons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false information, including violations." | on my inquiry of the person or persons who manage the is, to the best of my knowledge and belief, true, accurate, |
| Signature of Contractor or Subcontractor: | Date: |
| Printed Name and Affiliation: | |
| | |
| Certification and Signature by Permittee | 9 |
| "I certify under penalty of law that this document and all attachments were prepared under my direction assure that qualified personnel properly gathered and evaluated the information submitted. Based of system, or those persons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false information, including violations." | on my inquiry of the person or persons who manage the is, to the best of my knowledge and belief, true, accurate, |
| Signature of Permittee or "Duly Authorized Representative": | Date: |
| Printed Name and Affiliation: | |



| Section A – Initial Report (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action) | | | | | | |
|--|--|--------------------|--|----------------------------------|--------------------------------|--|
| Name of Project | Tracking 1 | No. | | Today's Date | | |
| Date Problem First Disco | vered | | Time Problem Firs | t Discovered | | |
| Name and Contact Inform | nation of Individual Completing this | | | | | |
| ☐ A required stormwater ☐ The stormwater contri | gered the requirement to conduct corre er control was never installed, was insta- rols that have been installed and mainta- ge has occurred or is occurring | lled incorrectly | | | | |
| Provide a description of t | he problem: | | | | | |
| | corrective action (Enter date that is eit. ork within the first 7 days, enter the da | | | | l the problem, or (2) if it is | |
| | completion falls after the 7-day deadlin I for making the new or modified storm | | | | 17 days, and (2) why the | |
| | Section (Complete this section no later than 7 c | | ctive Action Progre er discovering the cond | | | |
| Section B.1 – Why the | | | | | | |
| Cause(s) of Problem (Add | l an additional sheet if necessary) | | How This Was Det | termined and the Date You Deterr | nined the Cause | |
| 1. | | | 1. | | | |
| 2. | | | 2. | | | |
| 3. | | | 3. | | | |
| Section B.2 – Stormw | ater Control Modifications to be 1 | mplemented | to Correct the Pr | oblem | | |
| List of Stormwater Contr Problem (Add an addition | ol Modification(s) Needed to Correct nal sheet if necessary) | Completion Date | SWPPP Update Necessary? | Notes | | |
| 1. | | | □Yes □No Date: | | | |
| 2. | | | ☐Yes ☐No Date: | | | |
| 3. | | | ☐Yes ☐No Date: | | | |



| | Section A – Initial Report (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action) | | | | | | |
|--|--|--------------------|---|--|------------------------------------|--|--|
| Name of Project | Tracking | No. | | Today's Date | | | |
| Date Problem First Disco | vered | | Time Problem Firs | t Discovered | | | |
| Name and Contact Inform | nation of Individual Completing this | | | | | | |
| ☐ A required stormwater ☐ The stormwater contr | gered the requirement to conduct correr control was never installed, was instrols that have been installed and mainge has occurred or is occurring | alled incorrectly | y, or not in accordan ffective enough for tl | ce with the requirements in Part 2 ne discharge to meet applicable wa | and/or 3 ater quality standards | | |
| Provide a description of t | he problem: | | | | | | |
| | corrective action (Enter date that is ei ork within the first 7 days, enter the de | | | | the problem, or (2) if it is | | |
| | completion falls after the 7-day deadli I for making the new or modified storn | | | | 7 days, and (2) why the | | |
| | Sect (Complete this section <u>no later than 7</u> | | ctive Action Progr er discovering the condi | | | | |
| Section B.1 – Why the | Problem Occurred | | | | | | |
| Cause(s) of Problem (Add | d an additional sheet if necessary) | | How This Was Det | ermined and the Date You Determ | nined the Cause | | |
| 1. | | | 1. | | | | |
| 2. | | | 2. | | | | |
| 3. | | | 3. | | | | |
| Section B.2 - Stormw | ater Control Modifications to be | Implemented | to Correct the Pr | oblem | | | |
| List of Stormwater Contr Problem (Add an addition | ol Modification(s) Needed to Correct nal sheet if necessary) | Completion Date | SWPPP Update Necessary? | Notes | | | |
| 1. | | | □Yes □No Date: | | | | |
| 2. | | | □Yes □No Date: | | | | |
| 3. | | | □Yes □No Date: | | | | |



Contractor or Subcontractor Certification and Signature

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to

| assure that qualified personnel properly gathered and evaluated the information submitted. Based system, or those persons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false information, incluviolations." | l is, to the best of my knowledge and belief, true, accurate, |
|--|--|
| Signature of Contractor or Subcontractor: | Date: |
| Printed Name and Affiliation: | |
| Certification and Signature by Permitte | ee |
| "I certify under penalty of law that this document and all attachments were prepared under my directic assure that qualified personnel properly gathered and evaluated the information submitted. Based system, or those persons directly responsible for gathering the information, the information submitted and complete. I am aware that there are significant penalties for submitting false information, incluviolations." | on my inquiry of the person or persons who manage the lis, to the best of my knowledge and belief, true, accurate, |
| Signature of Permittee or "Duly Authorized Representative": | Date: |
| Printed Name and Affiliation: | |



ATTACHMENT H - PILOT-SCALE FIELD TESTING PLAN

(NOT APPLICABLE)

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.



MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Both temporary and permanent BMP's will be utilized to prevent pollution from leaving the site.

Kimley » Horn

SECTION 8: ADDITIONAL FORM

Agent Authorization Form

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

| Home Gard I |
|--|
| Print Name |
| Di Cerr |
| Title - Owner/President/Other |
| of Corporation/Partnership/Entity Name |
| Corporation/Partnership/Entity Name |
| have authorized Jason Link Print Name of Agent/Engineer |
| Thirtianie et rigent Engineer |
| of Kimley-Horn |
| 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.

Applicant's Signature

THE STATE OF Texas §

SIGNATURE PAGE:

County of below §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Homen Gaucia</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 9 day of December 200

REENA LEE GONZALEZ Notary Public, State of Texas Comm. Expires 12-04-2026 Notary ID 131814991

MY COMMISSION EXPIRES: 12.04.2026

Application Fee Form

| Texas Commission on Environmer | ntal Quality | | |
|---------------------------------------|-----------------------|--------------------------|----------------|
| Name of Proposed Regulated Entit | :y: | | |
| Regulated Entity Location: | | | |
| Name of Customer: | | | |
| Contact Person: | Phor | ne: | |
| Customer Reference Number (if is: | sued):CN | | |
| Regulated Entity Reference Number | er (if issued):RN | | |
| Austin Regional Office (3373) | | | |
| Hays | Travis | □w | illiamson |
| San Antonio Regional Office (3362 | | | |
| | Medina | Пи | valde |
| Bexar | | OV | raiue |
| Comal | Kinney | | |
| Application fees must be paid by c | | | |
| Commission on Environmental Qu | • | • | • |
| form must be submitted with you | r tee payment. This p | ayment is being submi | itted to: |
| Austin Regional Office | S | an Antonio Regional O | office |
| Mailed to: TCEQ - Cashier | □ C | Overnight Delivery to: 1 | TCEQ - Cashier |
| Revenues Section | 1 | .2100 Park 35 Circle | |
| Mail Code 214 | Е | Building A, 3rd Floor | |
| P.O. Box 13088 | A | Austin, TX 78753 | |
| Austin, TX 78711-3088 | (. | 512)239-0357 | |
| Site Location (Check All That Appl | y): | | |
| Recharge Zone | Contributing Zone | Transi | tion Zone |
| Type of Plar | ו | Size | Fee Due |
| Water Pollution Abatement Plan, (| Contributing Zone | | |
| Plan: One Single Family Residentia | l Dwelling | Acres | \$ |
| Water Pollution Abatement Plan, (| Contributing Zone | | |
| Plan: Multiple Single Family Reside | ential and Parks | Acres | \$ |
| Water Pollution Abatement Plan, 0 | Contributing Zone | | |
| Plan: Non-residential | | Acres | \$ |
| Sewage Collection System | | L.F. | \$ |
| Lift Stations without sewer lines | | Acres | \$ |
| Underground or Aboveground Sto | rage Tank Facility | Tanks | \$ |
| Piping System(s)(only) | | Each | \$ |
| Exception | | Each | \$ |
| Extension of Time | | Each | \$ |
| Signature: | Date | : | |

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

| Project | Fee |
|-------------------|-------|
| Exception Request | \$500 |

Extension of Time Requests

| Project | Fee |
|---------------------------|-------|
| Extension of Time Request | \$150 |

TCEQ Use Only



TCEQ Core Data Form

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

SECTION I: General Information

| ☐ Renewal | (Core Data | Form should be subm | itted with the rei | newal form) | | | Other | | | |
|---|--------------|-------------------------------------|-------------------------|---------------------------|--------------------|---------------|-------------------------------------|------------------|---------------|-----------------|
| 2. Customer Reference Number (if issued) Follow this link | | | ink to searc | h 3. Re | egulated Entity Re | eference | Number (if | issued) | | |
| 13 | | | for CN or RN numbers in | | - | | | | | |
| CN 6001306 | 552 | | | Central R | egistry** | RN | 111075701 | | | |
| ECTIO | N II: | Customer | Inform | ation | | | | | | |
| | | | | | • | | | | | |
| 4. General Cu | istomer In | formation | 5. Effective | Date for Cu | ıstomer Ir | formation | Updates (mm/dd | /уууу) | | |
| New Custor | mer | | | ner Informat | tion | Cha | nge in Regulated En | itity Own | ership | |
| Change in L | egal Name | (Verifiable with the Te | exas Secretary of | State or Tex | as Comptro | ller of Publi | c Accounts) | | | |
| The Custome | r Name su | ıbmitted here may | be updated au | ıtomaticall | ly based o | n what is | current and active | e with th | ne Texas Sec | retary of State |
| (SOS) or Texa | s Comptro | oller of Public Acco | unts (CPA). | | | | | | | |
| 6. Customer | Legal Nam | ne (If an individual, pr | int last name firs | t: eg: Doe, J | ohn) | | If new Customer, | enter pre | evious Custom | er below: |
| | | | | | | 5 | | | | |
| City of San An | itonio - Par | ks & Recreation Depa | artment (Public \ | Norks) | | | | | | |
| 7. TX SOS/CP | A Filing N | umber | 8. TX State 1 | ax ID (11 di | igits) | | 9. Federal Tax ID 10. DUNS Numb | | | Number (if |
| | | | | | | | (9 digits) | | | |
| | | | | | | | 746002070 | | | |
| | | | | | | | 740002070 | | | |
| L1. Type of C | ustomer: | Corpora | ition | | | Indivi | Individual Partnership: General Lin | | | neral 🗌 Limited |
| Government: [| City 🗌 (| County 🗌 Federal 🗌 | Local 🗌 State | Other | | Sole F | Proprietorship | Ot | her: | |
| L2. Number o | of Employ | ees | | | | | 13. Independe | ntly Ow | ned and Ope | erated? |
| 0-20 2 | 21-100 |] 101-250 251 | -500 🛭 501 a | ind higher | | | | ☐ No | | |
| 14 Customer | Role (Pro | posed or Actual) – as | it relates to the F | Regulated En | ntity listed o | n this form | Plagsa chack and a | f the falle | wing | |
| | Noic (110) | | | | | n this joini. | riedse check one oj | the joho | wing | |
| ⊠Owner □Occupationa | al Licansea | ☐ Operator ☐ Responsible Pa | | ner & Opera CP/BSA App | | | Other: | | | |
| | | | | сг/взд дрр | ilcant | | | | | |
| 15. Mailing | 100 W Ho | ouston Street, 17 th Flo | or | | | | | | | |
| | | | | | | | | | | |
| Address: | City | San Antonio | | State | TX | ZIP | 78205 | | ZIP + 4 | |
| | L | | 2017-2017 | | | | | Nacional Control | | |
| 1 C N | Mailing Inf | ormation (if outside | 11541 | | 1 1 | . F-Mail A | ddress (if applicab | le) | | |
| 16. Country i | • Iu III II | ormation (i) outside | OSA | | - | | () | , | | |

TCEQ-10400 (11/22) Page 1 of 3

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number (if applicable) | | |
|-----------------------------|-----------------------|--------------------------------|--|--|
| (210)207-2874 /210-207-8480 | | () - | | |

SECTION III: Regulated Entity Information

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

| ☐ New Regulated Entity | Update to | Regulated Entity | / Name Updat | te to Regulate | ed Entity Inform | nation | | | |
|---|---|--------------------|-------------------------------|---|------------------|--------------|-------------------|------------|------------------|
| The Regulated Entity Na as Inc, LP, or LLC). | me submitte | ed may be updo | ated, in order to n | neet TCEQ C | ore Data Sta | ndards (rem | noval of org | ganizatior | nal endings such |
| 22. Regulated Entity Nar | ne (Enter nan | ne of the site whe | re the regulated act | ion is taking p | olace.) | | | | |
| Classen Steubing Ranch Parl | k | | | | 5 | | | | |
| 23. Street Address of the Regulated Entity: | 20202 Hardy Oak Boulevard | | | | | | | | |
| (No PO Boxes) | City | San Antonio | State | ТХ | ZIP | 78257 | | ZIP + 4 | |
| 24. County | Bexar | | | | | | | | |
| | | If no Stre | et Address is pro | vided, fields | 25-28 are re | equired. | | | |
| 25. Description to Physical Location: | 500 feet north of the intersection of Hardy Oak Blyd and Huebner Road | | | | | | | | |
| 26. Nearest City San | Antonic | | | | | State T | X, 7825 | 8 Nea | rest ZIP Code |
| Latitude/Longitude are u | | | | | | ards. (Geoco | ding of the | Physical | Address may be |
| 27. Latitude (N) In Decim | mal: 29.630108 | | 28. Longitude (W) In Decimal: | | | al: | -98.477500 | | |
| Degrees | Minutes | | Seconds | Deg | Degrees Minutes | | utes | | Seconds |
| 29. Primary SIC Code (4 digits) 9512 | 30. Secondary SIC Code (4 digits) | | | 31. Primary NAICS Code (5 or 6 digits) 712190 (5 or 6 dig | | | ondary NAICS Code | | |
| 33. What is the Primary | Business of | this entity? (D | o not repeat the SIC | or NAICS des | cription.) Ci | ty Park | | | |
| 34. Mailing Address: | City | | State | | ZIP | | | ZIP + 4 | |
| 35. E-Mail Address: | | | | (7) | | | | | |
| 36. Telephone Number | | | 37. Extension o | or Code | 38. F | ax Number | (if applicable | 2) | |
| () - | | | () - | | | | | | |

TCEQ-10400 (11/22) Page 2 of 3

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 ☐ Emissions Inventory Air ☐ Industrial Hazardous Waste ☐ New Source OSSF ☐ Municipal Solid Waste Petroleum Storage Tank ☐ PWS Review Air ☐ Sludge Storm Water ☐ Title V Air ☐ Tires Used Oil ■ Voluntary Cleanup ■ Wastewater ■ Wastewater Agriculture ■ Water Rights Other: **SECTION IV: Preparer Information** 40. Name: Jason Link 41. Title: Professional Engineer 42. Telephone Number 43. Ext./Code 45. E-Mail Address 44. Fax Number (726)610-3764 jason.link@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: Job Title: City of San Antonio - Parks & Recreation Department Director - Parks & Recreation Department Name (In Print): Homer Garcia III Phone: (210) 207-8447 Signature: Date:

2. NO TITLE COMMITMENT PROVIDED AT THE TIME OF THE

3. REFERENCED PROPERTY IS IN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SCALED FROM FEMA FLOOD MAP 140 OF 785, COMMUNITY PANEL NO. 48029C0140G, DATED SEPTEMBER 29, 2010.

4. THE TRACT SHOWN HEREON IS SUBJECT TO ALL CITY OF SAN ANTONIO AND BEXAR COUNTY ORDINANCES AND RESTRICTIONS.

5. METES AND BOUNDS WERE PREPARED FOR THIS SURVEY.

6. SET IRON PINS ARE 1/2" DIAMETER REBAR WITH A BLUE CAP STAMPED "KFW SURVEYING".

7. ADJOINERS SHOWN HEREON ARE PER CURRENT BEXAR COUNTY APPRAISAL DISTRICT RECORDS AND OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.

| | Line Ta | ble |
|--------|---------|-------------|
| LINE # | LENGTH | DIRECTION |
| L1 | 202.00' | N40°37'02"E |
| L2 | 248.49' | N70°00'30"E |
| L3 | 246.04' | S80°45'50"E |
| L4 | 238.52' | N81°10'41"E |
| L5 | 81.24' | N42°20'14"E |
| L6 | 98.31' | N00°09'01"W |
| L7 | 40.39' | N81°29'06"E |
| L8 | 185.16' | S00°10′17″E |
| L9 | 54.28' | S23°32'24"E |
| L10 | 98.56' | S01°52'10"E |
| L11 | 148.88' | S02°47'34"W |
| L12 | 134.84' | S72°08'17"W |
| L13 | 98.16' | S17°50′03″E |
| L14 | 172.60' | N61°29'41"W |
| L15 | 192.30' | N22°30′18″W |
| L16 | 148.71' | N13°12′18″W |
| L17 | 200.79' | N22°38′17″W |
| L18 | 129.86′ | N09°57′21″E |
| L19 | 143.57' | S37°37'19"E |
| L20 | 80.14' | S52°22′14″W |

| | Curve Table | | | | | |
|---------|-------------|----------|------------|-------------|------------|--|
| Curve # | LENGTH | RADIUS | DELTA | CHORD BRG | CHORD DIST | |
| C1 | 380.13' | 207.50' | 104°57'51" | S80°05'22"W | 329.16' | |
| C2 | 316.83' | 1543.00' | 011°45'54" | N43°29'37"W | 316.28' | |

ANY COMPLAINTS REGARDING THE SERVICES YOU HAVE RECEIVED CAN BE DIRECTED TO: THE TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS (TBPELS) 1917 S INTERSTATE 35, AUSTIN, TEXAS, 78741

HONE: 512-440-7723; FAX: 512-442-1414 - EMAIL: INFO@PELS.TEXAS.GOV

A 43.97 ACRE TRACT OF LAND, OUT OF THE A HOUSTON SURVEY NO. 94, ABSTRACT NO. 356, BEXAR COUNTY, TEXAS, AND A 11.839 ACRE TRACT, CALLED TRACT 5, A 2.818 ACRE TRACT, CALLED TRACT 6, A 17.389 ACRE TRACT, CALLED TRACT 9, A 3.472 ACRE TRACT, CALLED TRACT 10, A 1.803 ACRE TRACT, CALLED TRACT 11, A 1.391 ACRE TRACT, CALLED TRACT 12, AS CONVEYED TO THE CITY OF SAN ANTONIO OF RECORD IN DOCUMENT NO. 20170162172 OF THE OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS, ALSO OUT OF A 109.955 ACRE TRACT, CALLED TRACT 2, A 37.663 ACRE TRACT, CALLED TRACT 3, A 0.814 ACRE TRACT, CALLED TRACT 7, AND A 2.585 ACRE TRACT, CALLED TRACT 8, AS CONVEYED TO THE CITY OF SAN ANTONIO OF RECORD IN DOCUMENT NO. 20160208630 OF THE OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.



has joined Colliers Engineering & Design TBPE FIRM #9513 / TBPLS FIRM #101223-00

REVISIONS

ISSUE DATE 03/17/2021 04/19/2023

JOB NO. 19-095 DATE: 03/17/2021 CHECKED: TAS DRAWN: CR

SCALE: 1"=200' 200' 600' **LOCATION MAP** NOT-TO-SCALE REVISED EASEMENT SAN ANTONIO RIVER AUTHORITY CALLED 84.330 ACRES VOL. 1041, PAGE 942, O.P.R. SYMBOL LEGEND 11.839 ACRE TRACT TRACT 5 OWNER: CITY OF SAN ANTONIO SET 1/2" IRON ROD WITH A BLUE CAP (DOC. NO. 20170162172, O.P.R.) STAMPED "KFW SURVEYING" N87° 05' 23"E \oslash FPK FOUND PK NAIL 507.49' P 0 N49° 22' 34"W 12.34' O.P.R. OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF BEXAR COUNTY, TEXAS 395.09 D.P.R. DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS POINT OF BEGINNING 17.389 ACRE TRACT TRACT 9 PAPE DAWSON P.D. OWNER: CITY OF SAN ANTONIO (DOC. NO. 20170162172, O.P.R.) VOL. 9721, PG. 38-40 D.P.R. L9-VOL. 9624, PG. 24 D.P.R. S49°22'34"E L10-(R2) 149.87' A HOUSTON SURVEY NO. 94 ABSTRACT NO. 356 3.472 ACRE TRACT TRACT 10 OWNER: CITY OF SAN ANTONIO (DOC. NO. 20170162172, O.P.R.) 1.803 ACRE TRACT L11-OWNER: CITY OF SAN ANTONIO (DOC. NO. 20170162172, O.P.R.) 0.814 ACRE TRACT TRACT 7 43.97 ACRE TRACT OWNER: CITY OF SAN ANTONIO (DOC. NO. 20160208630, O.P.R.) 37.663 ACRE TRACT OWNER: CITY OF SAN ANTONIO 109.955 ACRE TRACT (DOC. NO. 20160208630, O.P.R.) TRACT 2 OWNER: CITY OF SAN ANTONIO 1.391 ACRE TRACT (DOC. NO. 20160208630, O.P.R.) TRACT 12 OWNER: CITY OF SAN ANTONIO (DOC. NO. 20170162172, O.P.R.) STATE OF TEXAS: COUNTY OF BEXAR: LOT 902, BLOCK 58 I, TERESA A. SEIDEL, DO HEREBY CERTIFY THAT THIS BOUNDARY SURVEY N.C.B. 19221 WAS PREPARED FROM AN ACTUAL SURVEY MADE ON THE GROUND BY HUEBNER RD-HARDY OAK BLVD-MPCD PERSONS WORKING UNDER MY SUPERVISION AND SUBSTANTIALLY COMPLIES VOL. 9721, PG. 38-40, D.P.R. WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 1B LAND BOUNDARY SURVEY. THE FIELDWORK WAS COMPLETED ON 04/17/2023. REMAINING PORTION OF A 150.256 ACRE TRACT OWNER: DAGUE RANCH LIMITED PARTNERSHIOP TERESA A SEIDEL (DOC. NO. 20100221586, O.P.R.) 5672 REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5672 EMAIL:TSEIDEL@KFWENGINEERS.COM DATE OF SURVEY: 03/17/2021 REVISED: 04/19/2023 PROJECT NO.: 19-095

BOUNDARY SURVEY OF

Date: Apr 19, 2023, 9:06am File: S:IDraw 2019|19-095

REVISED BNDY

SHEET NUMBER:

1 OF 1



FIELD NOTES FOR A 43.97 ACRE TRACT

has joined Colliers Engineering & Design
TBPE FIRM #9513 / TBPLS FIRM #101223-00

A **43.97** acre tract of land, out of the A Houston Survey No. 94, Abstract No. 356, Bexar County, Texas, and a 11.839 acre tract, called Tract 5, a 2.818 acre tract, called Tract 6, a 17.389 acre tract, called Tract 9, a 3.472 acre tract, called Tract 10, a 1.803 acre tract, called Tract 11, a 1.391 acre tract, called Tract 12, as conveyed to the City of San Antonio of record in Document No. 20170162172 of the Official Public Records of Bexar County, Texas, also out of a 109.955 acre tract, called Tract 2, a 37.663 acre tract, called Tract 3, a 0.814 acre tract, called Tract 7, and a 2.585 acre tract, called Tract 8, as conveyed to the City of San Antonio of record in Document No. 20160208630 of the Official Public Records of Bexar County, Texas and being more particularly described by metes and bounds as follows:

BEGINNING at a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING" in the northeast right-of-way line of Hardy Oak Blvd., an 86 foot wide right-of-way, of the Knights Cross Elementary School, a plat of record in Volume 9624, Page 94 of the Deed and Plat Records of Bexar County, Texas, and the southwest line of Tract 8, for the northwest corner of the tract described herein, from which a found ½" iron rod stamped "Pape Dawson", for a point of curvature in the northeast right-of-way line of Hardy Oak Blvd. and the southwest line of Tract 8 bears, N 49°22'34" W, a distance of 12.34 feet;

THENCE: departing the northeast right-of-way line of Hardy Oak Blvd., into and across Tract 8, Tract 5, Tract 9, Tract 2, Tract 3, Tract 10, Tract 11, and Tract 12, the following eighteen (18) courses:

- 1. N 40°37′02″ E, a distance of 202.00 feet to a set ½″ iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior angle point of the tract described herein,
- 2. **N 70°00'30"** E, a distance of **248.49 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior angle point of the tract described herein,
- 3. **S 80°45′50"** E, a distance of **246.04 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior angle point of the tract described herein.
- 4. N 81°10'41" E, a distance of 238.52 feet to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVYEING", for an interior corner of the tract described herein.
- 5. **N 42°20'14**" E, a distance of **81.24 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior angle point of the tract described herein,
- 6. N 00°09′01″ W, a distance of 98.31 feet to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for the northerly northwest corner of the tract described herein,
- 7. **N 81°29′06"** E, a distance of **40.39 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for the north corner of the tract described herein,
- 8. **S 00°10'17"** E, a distance of **185.16 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior corner of the tract described herein,
- 9. **S 77°38'45"** E, a distance of **395.09 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior angle point of the tract described herein,
- 10. N 72°31′46″ E, a distance of 443.04 feet to a set ½″ iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior angle point of the tract described herein,

- 11. N 87°05'23" E, a distance of 507.49 feet to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for the northeast corner of the tract described herein.
- 12. **S 24°48'15"** E, a distance of **301.80 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an angle point of the tract described herein,
- 13. **S 23°32'24"** E, a distance of **54.28 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an easterly angle point of the tract described herein,
- 14. **S 01°52′10**" **E**, a distance of **98.56 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for a southeasterly corner of the tract described herein,
- 15. **S 54°59'25" W**, a distance of **413.85 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior corner of the tract described herein,
- 16. **S 02°47'34"** W, a distance of **148.88 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior corner of the tract described herein,
- 17. **S 39°59'47"** W, a distance of **442.74 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior corner of the tract described herein,
- 18. **S 72°08'17"** W, a distance of **134.84 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior corner of the tract described herein.
- 19. **S 17°50'03"** E, a distance of **98.16 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior corner of the tract described herein,
- 20. **S 46°47′31" W**, a distance of **350.46 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for the South corner of the tract described herein,
- 21. **N 61°29'41" W**, a distance of **172.60 feet** to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior corner of the tract described herein,
- 22. N 22°30′18″ W, a distance of 192.30 feet to a set ½″ iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an angle point of the tract described herein,
- 23. N 13°12'18" W, a distance of 148.71 feet to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an angle point of the tract described herein,
- 24. N 22°38′17″ W, a distance of 200.79 feet to a set ½″ iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior corner of the tract described herein,
- 25. N 09°57′21" E, a distance of 129.86 feet to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior corner and a point of curvature to the left of the tract described herein,
- 26. With a non-tangent curve to the **left**, having an arc length of **380.13 feet**, a radius of **207.50 feet**, a delta angle of 104°57′51″, and a chord bears **S 80°05′22″W**, a distance of **329.16 feet** to a set ½″ iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an interior corner and a point of non-tangency of the tract described herein,

- 27. **S** 37°37′19″ E, a distance of 143.57 feet to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING", for an exterior corner of the tract described herein, and
- 28. **S 52°22'44"** W, a distance of **80.14** feet to a set ½" iron rod with a Blue Plastic Cap Stamped "KFW SURVEYING" in the common line of Hardy Oak Blvd., an 86 foot wide right-of-way, of the Huebner Hardy Oak Blvd MPCD, a plat of record in Volume 9721, Pages 38-40 of the Deed and Plat Records of Bexar County, Texas and Tract 12, for the southwest corner of the tract described herein, from which a found ½" iron rod stamped "Pape Dawson" for a point of tangency in the easterly right-of-way line of Hardy Oak Blvd., and in the west line of a remaining portion of a 105.256 acre tract as conveyed to Dague Ranch Limited Partnership of record in Document No. 20100221586 of the Official Public Records of Bexar County, Texas bears, S 22°38'57" E, a distance of 796.74 feet;

THENCE: along and with the common line between Hardy Oak Blvd., Tract 12, Tract 11, Tract 6, Tract 7, Tract 9, and Tract 8, the following two (2) courses:

- 1. With a non-tangent curve to the **left**, having an arc length of **316.83 feet**, a radius of **1543.00 feet**, a delta angle of **11°45′54″**, and a chord bears **N 43°29′37″ W**, a distance of **316.28 feet** to a found PK nail, for a point of tangency of the tract described herein, and
- 2. N 49°22'34" W, at a distance of 638.54 feet passing a found ½" iron rod stamped "Pape Dawson", for the northeast corner of Hardy Oak Blvd. of Knights Cross Elementary School and the northeast corner of Hardy Oak Blvd. of Huebner Hardy Oak Blvd MPCD and continuing for a total distance of 776.07 feet to the POINT OF BEGINNING and containing 43.97 acres, more or less, in Bexar County, Texas. Said tract being described in accordance with a survey prepared by KFW Surveying. Bearings are based on NAD83 Texas State Plane South Central Zone.

ENESA A SPIDEL SOURCESSION SURVEY SUR

Job No.:

19-095

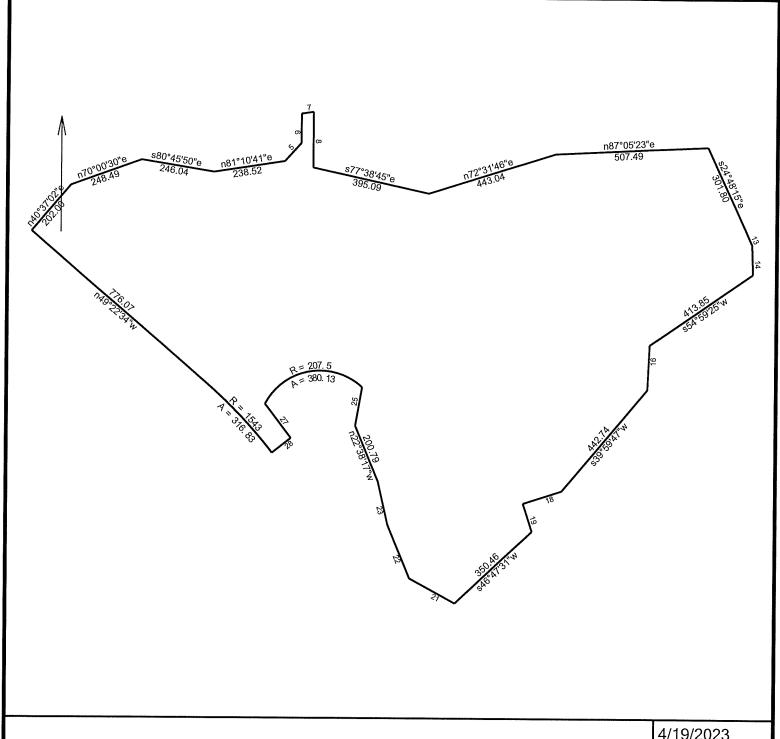
Prepared by:

KFW Surveying

Date: Revised: March 2, 2021 April 19, 2023

File:

S:\Draw 2019\19-095 Classen-Steubing Ranch Park, Ph 1\DOCS\FN43.97AC.docx



4/19/2023

```
File: 43.9738 AC.ndp
Scale: 1 inch= 320 feet
```

```
Tract 1: 43.9738 Acres, Closure: n68.1152w 0.01 ft. (1/496625), Perimeter=7270 ft.
01 n40.3702e 202.00
02 n70.0030e 248.49
03 s80.4550e 246.04
04 n81.1041e 238.52
05 n42.2014e 81.24
06 n00.0901w 98.31
07 n81.2906e 40.39
08 s00.1017e 185.16
09 s77.3845e 395.09
10 n72.3146e 443.04
11 n87.0523e 507.49
12 s24.4815e 301.80
13 s23.3224e 54.28
```

14 s01.5210e 98.56 15 s54.5925w 413.85 16 s02.4734w 148.88 17 s39.5947w 442.74 18 s72.0817w 134.84 19 s17.5003e 98.16 20 s46.4731w 350.46 21 n61.2941w 172.60 22 n22.3018w 192.30 23 n13.1218w 148.71 24 n22.3817w 200.79 25 n09.5721e 129.86 26 Lt, r=207.50, arc=380.13, chord=s80.0522w 329.16 27 s37.3719e 143.57 28 s52.2244w 80.14 29 Lt, r=1543.00, arc=316.83, chord=n43.2937w 316.27 30 n49.2234w 776.07