

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

May 2, 2022

Lauren Nuffer, P.E.
Kimley-Horn
13455 Noel Road Two Galleria Office Tower Suite 700
Dallas, TX 75024

RE: Raising Cain's C0852
4800 Montgomery Blvd, NE
Grading and Drainage Plan
Engineer's Stamp Date: 4/27/22
Hydrology File: G17D011

Dear Ms. Nuffer:

Based upon the information provided in your submittal received 5/2/22, the Grading and Drainage Plans are approved for Building Permit, DRB submittals, and Work Order.

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

Please use the attached City of Albuquerque Treasury Deposit form and when ready please email this form to Yolanda Montoya (yolandamontoya@cabq.gov). She will then produce and email back with a receipt and instructions on how to pay online. Once paid, please email me proof of payment. This will insure that Hydrology will be able to process Permanent Release of Occupancy approval when officially submitted.

If you have any questions, please contact me at 924-3695 or dggutierrez@cabq.gov.

Sincerely,

David G. Gutierrez, P.E.
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/TRANSPORTATION _____ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ DRAINAGE MASTER PLAN
- _____ DRAINAGE REPORT
- _____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- _____ ELEVATION CERTIFICATE
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ TRAFFIC IMPACT STUDY (TIS)
- _____ OTHER (SPECIFY) _____
- _____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ SO-19 APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ GRADING/ PAD CERTIFICATION
- _____ WORK ORDER APPROVAL
- _____ CLOMR/LOMR
- _____ FLOODPLAIN DEVELOPMENT PERMIT
- _____ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

LEGAL DESCRIPTION

The legal description below is per the ALTA/NSPS Land Title Survey prepared for the Site by Precision Surveys, Inc. dated August 9 2021.

Parcel I

A tract of land lying and situate within Section 2, Township 10 North, Range 3 East, N.M.P.M. City of Albuquerque, Bernalillo County, New Mexico, comprising of Tract B-1, Block A, Vista Grande Addition, Unit 1, as the same is shown and designated on the plat thereof filed in the Office of the County Clerk of Bernalillo County on November 23, 1981 in Map Book C19, Page 27, said tract being more particularly described by New Mexico State Plane Coordinate System grid bearings (NAD 83-Central Zone) and ground distances (US Survey Feet) as follows;

Beginning at the northwest corner of described tract lying on the south right of way line of Montgomery Boulevard, N.E., marked by a found no. 5 rebar with yellow plastic cap "Erkenhoff LS 243" from whence a tie to A.G.R.S. monument "9_F18" bears in N 39°13'52" E, a distance of 1687.08 feet.

Thence from said point of beginning, along said south right of way line, S 89°47'53" E, a distance of 27.53 feet to an angle point, marked by a found chiseled "X";

Thence continuing along said south right of way line, N 45°00'17" E, a distance of 35.32 feet to an angle point, marked by a found no. 4 rebar;

Thence continuing along said south right of way line, N 89°50'05" E, a distance of 237.30 feet to a point of curvature, marked by a found no. 5 rebar;

Thence continuing along said south right of way line, along a curve to the right, having an arc length of 42.71 feet, a radius of 150.00 feet, a delta angle of 16°18'56", a chord bearing of S 83°33'32" E, and a chord length of 42.57 feet to a point of reverse curvature, marked by a set no. 5 rebar with pink plastic cap "PS 11993"

Thence continuing along said south right of way line, along a reverse curve to the left, having an arc length of 42.59 feet, a radius of 150.00 feet, a delta angle of 16°16'01", a chord bearing of S 80°34'11" E, and a chord length of 42.44 feet to the northeast corner of described tract, marked by a found no. 5 rebar;

Thence leaving said south right of way line, S 00°10'24" E, a distance of 137.88 feet to the southeast corner of described tract, marked by a found chiseled "X";

Thence S 89°28'47" W, a distance of 373.98 feet to the southwest corner of described tract, marked by a found pk nail with washer (Illegible);

Thence N 00°11'51" W, a distance of 127.44 feet to the point of beginning, containing 1.2632 acres (55,027 square feet), more or less.

Parcel II

Together with non-exclusive rights of easement under and in accord with the declaration of restrictions and grant of easement recorded November 30, 1977 in Book Misc. 573, Page 575, as Document No. 77-74436 and that certain special covenants, conditions and restrictions recorded November 25, 1971 in Book Misc. 893, Page 908, as Document No. 81-62056, and shared parking agreement filed December 5, 2003, recorded in Book A69, Page 7686 as Document No. 2003218150, re-recorded December 17, 2003, in Book A78, Page 3351 as Document No. 2003223828 and ratification of shared parking agreement filed December 17, 2003, recorded in Book A70, Page 2876 as Document No. 2003223353, records of Bernalillo County, New Mexico, to the extent of and only for the duration as provided for therein.

FINAL DRAINAGE REPORT
FOR

Raising Cane's - Restaurant # RC 852

at 4800 Montgomery Blvd NE

Albuquerque, NM 87109

February 28, 2022

PREPARED FOR:

RAISING CANE'S

RESTAURANT SUPPORT OFFICE

6800 BISHOP ROAD

PLANO, TX 75024

PREPARED BY:

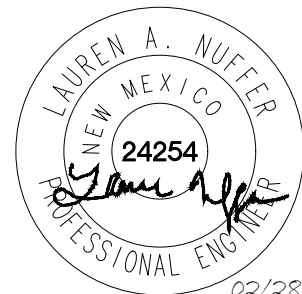
KIMLEY-HORN

1000 2ND AVENUE, SUITE 3900

SEATTLE, WA 98104

OFFICE: (206) 667-8610

KHA PROJECT #: 090042000



02/28/2022

Kimley»Horn

Expect More. Experience Better.

(This sheet was intentionally left blank)

Disclosure Statement:

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

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EXECUTIVE SUMMARY

The project is located in the City of Albuquerque on the south side of Montgomery Blvd NE near the intersection with San Mateo Blvd NE. It is currently developed and contains an existing Rock & Brews restaurant. Current zoning is Mixed Use, Medium Density (MX-M), which aligns with what is proposed for the project. Proposed improvements consist of a new 3,331 SF building, hardscaped patio space, a parking lot with 67 spaces, landscaping, and all associated grading and utilities. The project will not cause an increase in impervious cover when compared to the existing conditions and will thus generate no additional stormwater runoff. The proposed improvements will affect two existing ponds within the project area, and the volume lost is replaced with an underground chamber system to ensure overall site runoff matches existing conditions. Onsite and offsite runoff will be directed to either the remaining smaller pond or the chamber system prior to leaving the site. After project completion, existing drainage patterns and point of discharge will match historical conditions.

INTRODUCTION

PURPOSE AND SCOPE OF STUDY

The purpose of this Final Drainage Report (FDR) is to provide the hydrologic and hydraulic calculations and to document and finalize the drainage design methodology in support of the proposed Raising Cane's Restaurant ("the Site"), for Raising Cane's. The Site is located within the jurisdictional limits of City of Albuquerque ("the City"). Thus, the guidelines for the hydrologic and hydraulic design components were based on the criteria for the City of Albuquerque, described below.

PROJECT REQUIREMENTS

The Site was designed in accordance with the City of Albuquerque's Development Process Manual Chapter 6 (*Drainage, Flood Control, and Erosion Control*), Part 6-3(A) (*Procedure for 40 Acre and Smaller Basins*). This section states that the principal design storm is the 100-year event.

All proposed stormwater improvements onsite are private and tie to an existing public storm line in Montgomery Boulevard after detention. The Site is currently developed with a restaurant use and is a part of a retail development which defines drainage patterns and stormwater detention for the whole development.

The design must comply with the City's design standards as well as maintain the existing drainage pattern within the overall retail development.

PROJECT DESCRIPTION

LOCATION

The Site is located on the south side of Montgomery Blvd NE, approximately 0.15 miles west of the intersection with San Mateo Blvd NE. Currently, the Site is developed as a Rock & Brews Restaurant and is located in existing retail development Fiesta Crossings.

LEGAL DESCRIPTION

The legal description below is per the ALTA/NSPS Land Title Survey prepared for the Site by Precision Surveys, Inc. dated August 9 2021.

Parcel I

A tract of land lying and situate within Section 2, Township 10 North, Range 3 East, N.M.P.M. City of Albuquerque, Bernalillo County, New Mexico, comprising of Tract B-1, Block A, Vista Grande Addition, Unit 1, as the same is shown and designated on the plat thereof filed in the Office of the County Clerk of Bernalillo County on November 23, 1981 in Map Book C19, Page 27, said tract being more particularly described by New Mexico State Plane Coordinate System grid bearings (NAD 83-Central Zone) and ground distances (US Survey Feet) as follows;

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Thence from said point of beginning, along said south right of way line, S 89°47'53" E, a distance of 27.53 feet to an angle point, marked by a found chiseled "X";

Thence continuing along said south right of way line, N 45°00'17" E, a distance of 35.32 feet to an angle point, marked by a found no. 4 rebar;

Thence continuing along said south right of way line, N 89°50'05" E, a distance of 237.30 feet to a point of curvature, marked by a found no. 5 rebar;

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Thence continuing along said south right of way line, along a reverse curve to the left, having an arc length of 42.59 feet, a radius of 150.00 feet, a delta angle of 16°16'01", a chord bearing of S 80°34'11" E, and a chord length of 42.44 feet to the northeast corner of described tract, marked by a found no. 5 rebar;

Thence leaving said south right of way line, S 00°10'24" E, a distance of 137.88 feet to the southeast corner of described tract, marked by a found chiseled "X";

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Thence N 00°11'51" W, a distance of 127.44 feet to the point of beginning, containing 1.2632 acres (55,027 square feet), more or less.

Parcel II

Together with non-exclusive rights of easement under and in accord with the declaration of restrictions and grant of easement recorded November 30, 1977 in Book Misc. 573, Page 575, as Document No. 77-74436 and that certain special covenants, conditions and restrictions recorded November 25, 1971 in Book Misc. 893, Page 908, as Document No. 81-62056, and shared parking agreement filed December 5, 2003, recorded in Book A69, Page 7686 as Document No. 2003218150, re-recorded December 17, 2003, in Book A78, Page 3351 as Document No. 2003223828 and ratification of shared parking agreement filed December 17, 2003, recorded in Book A70, Page 2876 as Document No. 2003223353, records of Bernalillo County, New Mexico, to the extent of and only for the duration as provided for therein.

BACKGROUND DOCUMENTS

PLANNING HISTORY

The Site is currently developed and contains an existing Rock & Brews restaurant. It is zoned Mixed Use, Medium Density (MX-M). Current zoning and use aligns with what is proposed for the Site.

The City of Albuquerque has provided copies of records for every approved site plan. Based on this information, the Site has historically always been a restaurant use. The earliest records, dated 1983, identify an existing Harrigan's Restaurant. In 2004, an amended site plan was approved for the construction of Zea Rotisserie & Grill. In 2013, an amended site plan was approved for the construction of Rock & Brews.

DRAINAGE HISTORY AND RELATED DOCUMENTS

The Site and associated retail development falls towards Montgomery Blvd NE. Two ponds are present within the projects proposed limits of disturbance. No documentation was able to be provided by the owner or tenant of the retail development detailing a former drainage analysis or a master drainage plan, so assumptions were used to determine existing conditions and mitigation required to provide equivalent storage capacity. Refer to **Existing Conditions** for more details on the assumptions that were made during analysis.

EXISTING CONDITIONS

SITE INVESTIGATION

The Site is currently fully developed, containing a ±5,500 SF building with associated parking, landscaping, hardscaping, and utilities. There are two existing ponds on the Site, one on the north side with frontage on Montgomery Blvd, and one on the eastern side. The eastern pond is not onsite, but it is within the proposed limits of disturbance and is therefore considered in this analysis.

From imagery and site topographic information, it is assumed that the master drainage plan for the overall retail development requires multiple small ponds located in existing landscape island which accept stormwater runoff through curb cuts. This was determined by the surveyed contours, which indicate depressions, and imagery which identifies curb cuts surrounding these areas. Some islands show inlets or pipes as outfall locations, and some do not appear to have any outfall and depend entirely on infiltration.

The existing northern pond does not have a surveyed outfall point, and the eastern pond has a 24" RCP outfall which discharges north, assumed to tie to the existing 36" storm line in Montgomery Blvd.

Due to the lack of information available about the existing overall drainage plan for the site, it is the opinion of this engineer that making further assumptions based on imagery and GIS data to delineate existing basins would neither be feasible nor accurate. In coordination with David Gutierrez in the Hydrology Department, the displaced volume does not need to be replaced onsite because the existing storm line in Montgomery Blvd can accept direct runoff.

Form of Analysis

The proposed development does not add any impervious cover to the project area, as detailed in **Table 1: Impervious Cover Summary**. Therefore, no additional stormwater runoff is being generated by this development, and the only impact that is assessed is the required stormwater quality volume.

The Rational Method and the Manning's Equation was used to size the individual pipes in the proposed infrastructure, and the stormwater chambers were sized based on the calculated stormwater quality volume.

Downstream Capacity

Historically, the point of discharge from an onsite pond is the existing 36" storm line in Montgomery Blvd. The point of discharge will not be changed with the proposed development, and no additional impervious cover is proposed with this project. No adverse effects are anticipated downstream as a result of this development.

DEVELOPED CONDITIONS

ONSITE

The proposed development will include a new 3,331 SF building, hardscaped patio space, a parking lot with 67 spaces, landscaping, and all associated grading and utilities. The proposed site will maintain the historic drainage pattern as much as practical. The proposed grading will continue to drain the site from south to north towards Montgomery Blvd NE. Runoff will be captured with catch basins that drain to a chamber system which is sized to replace the stormwater storage capacity that was lost with the revision of two existing onsite ponds. The chamber system is controlled by a 15" pipe that ties to the existing 36" storm line in Montgomery Blvd. The existing eastern pond, which was reduced in size, will continue to drain to the existing 36" storm line in Montgomery Blvd through a 24" outfall point. The existing 24" outfall of the pond will be extended to the new pond limits.

The proposed development will not cause an increase in impervious cover when compared to the existing conditions and will thus generate no additional stormwater runoff. Therefore, the design goal of this project was to ensure internal storm pipes are sized adequately to accept 100-year flows and to meet required stormwater quality volumes.

TABLE 1 – IMPERVIOUS COVER SUMMARY

| | | |
|----------------------------------|-----------|---------|
| EXISTING IMPERVIOUS COVER | 58,832 SF | 1.35 AC |
| PROPOSED IMPERVIOUS COVER | 58,667 SF | 1.35 AC |

Note: Impervious cover calculations are for the entire project area, including offsite work.

OFFSITE

The proposed development includes offsite work to modify traffic patterns to accommodate a new drive-thru and to connect to existing infrastructure. This offsite work is responsible for the shrinking in the eastern pond.

Based on imagery, it was deduced that the area contributing runoff to the eastern pond that is being modified consists of the existing parking lot to the east. Curb cuts will be maintained on the portion of the pond to remain, and the stormwater runoff no longer draining directly into the eastern pond will either drain through a low point and flume in the proposed drive aisle connection into the modified eastern pond or will sheet flow to a flume east of the drive-thru and flow along the gutter line and enter the chamber system through drain basin 3.

CALCULATIONS

All proposed pipes onsite have been sized to contain the 100-year storm event based on the Peak Discharge Rate found in the City of Albuquerque's Development Process Manual Chapter 6 (*Drainage, Flood Control, and Erosion Control*), Part 6-3(A) (*Procedure for 40 Acre and Smaller Basins*).

The proposed chamber system is sized to accommodate the required stormwater quality volume (SWQV) of 2,058 CF.

The proposed chamber system has a storage volume of 3,294 CF. Stormwater chambers allow for both storage and infiltration. The outfall pipe invert elevation is set such that the SWQV will infiltrate instead of discharging to the public infrastructure, refer to the "Total Cumulative Storage Volume" column in the Cultec Storage Volume Calculator. The soil present onsite is Type A, which offers high infiltration rates, making this site an ideal location for chamber use.

Refer to **Appendix B** for all calculations.

CONCLUSION

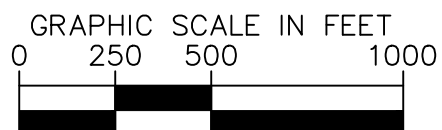
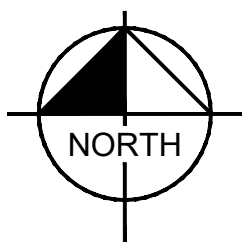
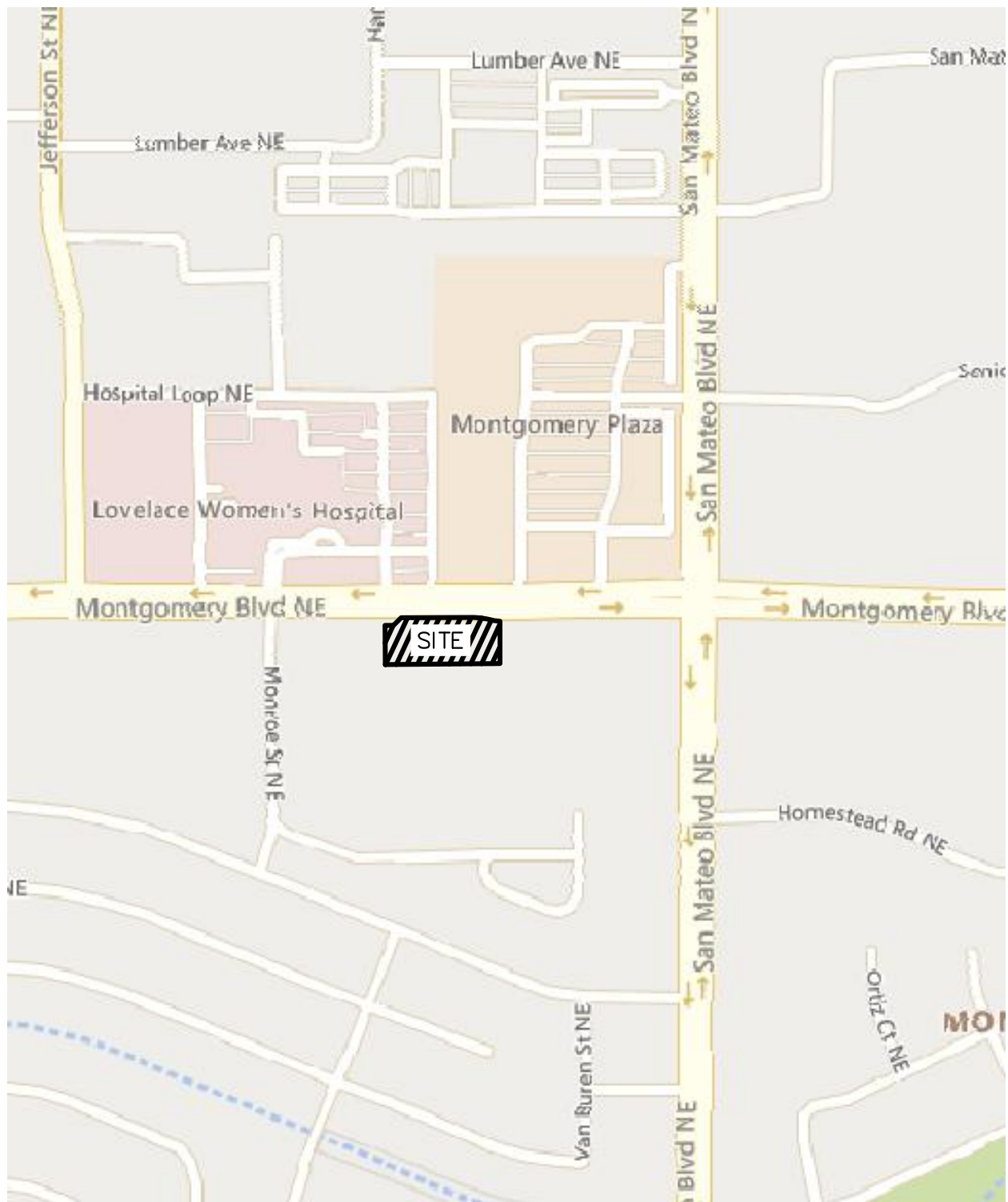
The proposed development will maintain the historic drainage patterns and point of discharge. No additional stormwater runoff is being generated by this site as no additional impervious cover is proposed. An underground chamber system will account for the required stormwater quality volume. The site will continue to drain north towards Montgomery Blvd NE. Any offsite flows entering the eastern parking lot via curb cuts will either continue to do so or be directed to the proposed chamber system. No adverse effects are anticipated downstream as a result of this development.

REFERENCES

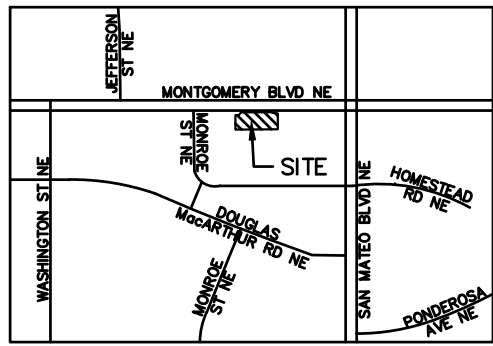
1. City of Albuquerque "Development Process Manual" (DPM), dated June 2020.

APPENDIX A: MAPS

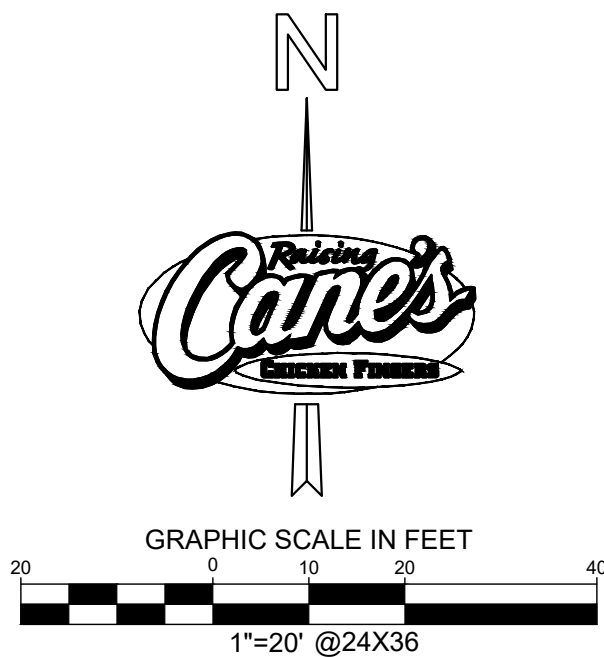
VICINITY MAP



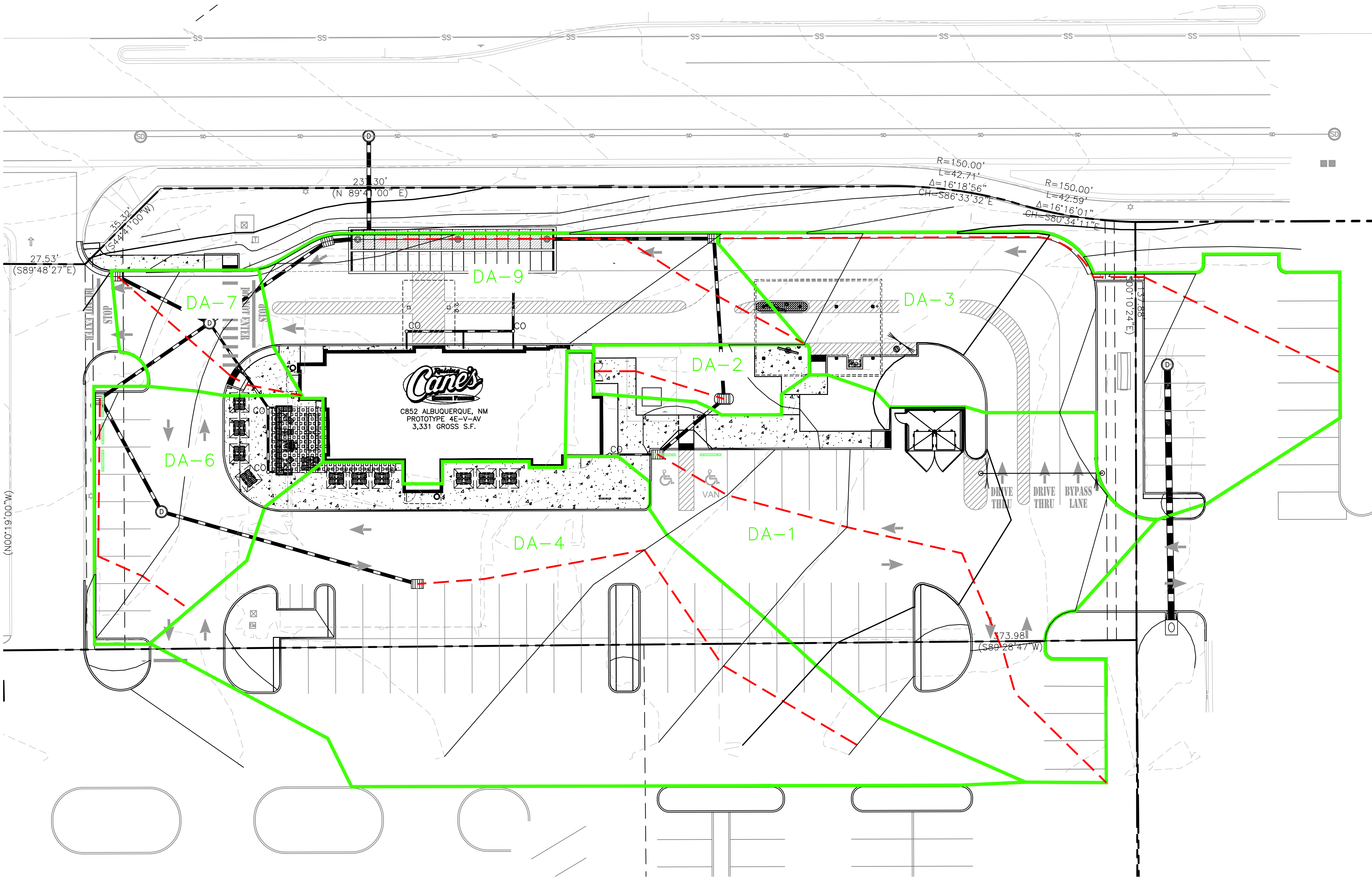
POST-DEVELOPMENT BASINS



VICINITY MAP
(NOT TO SCALE)



- LEGEND
- PROPERTY LINE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - DRAINAGE BASIN LINE
 - LONGEST FLOW PATH



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele 972-769-3100 Fax 972-769-3101

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
13455 Noel Road
Two Galleria Office Tower
Suite 700
Dallas, TX 75240
CONTACT: LAUREN NUFFER, P.E.
(972) 770-1300
LAUREN.NUFFER@KIMLEY-HORN.COM
LIZ WILLMOT
LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

1ST BLDG. RESUBMITTAL

| REVISIONS: | | |
|------------|------------|----------------------|
| | 11/12/2021 | 80% REVIEW SET |
| | 11/30/2021 | 1ST BLDG SUBMITTAL |
| | 12/20/2021 | 1ST BLDG RESUBMITTAL |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |

Sheet Title:

**POST-DEVELOPMENT
BASINS**

Date: 12.20.2021

Project Number: 090042000

Drawn By: LW/MG

Drawn By: LV/CK

Sheet Number:



Know what's below.
Call before you dig.



APPENDIX B: CALCULATIONS

STORMWATER QUALITY VOLUME CALCULATIONS



Storm Water Quality Volume (SWQV)

Project Name: C0852 Montgomery

Project Number: 9004200

Per Drainage, Flood Control, and Erosion Control Manual, Chapter 6, Section 6-12

SWQV:

New Development

SWQV: (Impervious area x 0.42)/12

Impervious Area = 1.35 acres

| | | |
|--------|------|-------|
| SWQV = | 0.05 | ac-ft |
| | 2058 | cf |

CULTEC DESIGN



CULTEC Stage-Storage Calculations

Date: February 21, 2022

Project Information:

RC0852 Montgomery
4800 Montgomery Blvd NE
Albuquerque
New Mexico 87109
USA

Project Number:

9004200

Chamber Model -
Number of Rows -
Total Number of Chambers -
HVLV FC-48 Feed Connectors -
Stone Void -
Stone Base -
Stone Above Units -
Area -
Base of Stone Elevation -

Recharger 902HD
2 units
34 units
2 units
30 %
9 inches
12 inches
1029.03 ft²
5177.22

| Recharger 902HD Incremental Storage Volumes | | | | | | | | | | | | | |
|---|------|-----------------|----------------|----------------------------|----------------|-----------------|----------------|---------------------------|----------------|---------------------------------|----------------|-----------|---------|
| Height of System | | Chamber Volume | | HVLV Feed Connector Volume | | Stone Volume | | Cumulative Storage Volume | | Total Cumulative Storage Volume | | Elevation | |
| in | mm | ft ³ | m ³ | ft ³ | m ³ | ft ³ | m ³ | ft ³ | m ³ | ft ³ | m ³ | ft | m |
| 69.0 | 1753 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3294.11 | 93.28 | 5182.97 | 5178.97 |
| 68.0 | 1727 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3268.39 | 92.55 | 5182.89 | 5178.95 |
| 67.0 | 1702 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3242.66 | 91.82 | 5182.80 | 5178.92 |
| 66.0 | 1676 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3216.94 | 91.09 | 5182.72 | 5178.90 |
| 65.0 | 1651 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3191.21 | 90.36 | 5182.64 | 5178.87 |
| 64.0 | 1626 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3165.48 | 89.64 | 5182.55 | 5178.85 |
| 63.0 | 1600 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3139.76 | 88.91 | 5182.47 | 5178.82 |
| 62.0 | 1575 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3114.03 | 88.18 | 5182.39 | 5178.79 |
| 61.0 | 1549 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3088.31 | 87.45 | 5182.30 | 5178.77 |
| 60.0 | 1524 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3062.58 | 86.72 | 5182.22 | 5178.74 |
| 59.0 | 1499 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3036.85 | 85.99 | 5182.14 | 5178.72 |
| 58.0 | 1473 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 3011.13 | 85.27 | 5182.05 | 5178.69 |
| 57.0 | 1448 | 2.6 | 0.1 | 0.0 | 0.0 | 25.0 | 0.7 | 27.525 | 0.8 | 2985.40 | 84.54 | 5181.97 | 5178.67 |
| 56.0 | 1422 | 6.3 | 0.2 | 0.0 | 0.0 | 23.8 | 0.7 | 30.171 | 0.9 | 2957.88 | 83.76 | 5181.89 | 5178.64 |
| 55.0 | 1397 | 8.8 | 0.3 | 0.0 | 0.0 | 23.1 | 0.7 | 31.916 | 0.9 | 2927.71 | 82.90 | 5181.80 | 5178.62 |
| 54.0 | 1372 | 15.1 | 0.4 | 0.0 | 0.0 | 21.2 | 0.6 | 36.306 | 1.0 | 2895.79 | 82.00 | 5181.72 | 5178.59 |
| 53.0 | 1346 | 20.1 | 0.6 | 0.0 | 0.0 | 19.7 | 0.6 | 39.824 | 1.1 | 2859.49 | 80.97 | 5181.64 | 5178.57 |
| 52.0 | 1321 | 25.1 | 0.7 | 0.0 | 0.0 | 18.2 | 0.5 | 43.288 | 1.2 | 2819.66 | 79.84 | 5181.55 | 5178.54 |
| 51.0 | 1295 | 27.6 | 0.8 | 0.0 | 0.0 | 17.4 | 0.5 | 45.060 | 1.3 | 2776.37 | 78.62 | 5181.47 | 5178.52 |
| 50.0 | 1270 | 30.1 | 0.9 | 0.0 | 0.0 | 16.7 | 0.5 | 46.805 | 1.3 | 2731.31 | 77.34 | 5181.39 | 5178.49 |
| 49.0 | 1245 | 33.9 | 1.0 | 0.0 | 0.0 | 15.6 | 0.4 | 49.423 | 1.4 | 2684.51 | 76.02 | 5181.30 | 5178.46 |
| 48.0 | 1219 | 33.9 | 1.0 | 0.0 | 0.0 | 15.6 | 0.4 | 49.423 | 1.4 | 2635.08 | 74.62 | 5181.22 | 5178.44 |
| 47.0 | 1194 | 36.3 | 1.0 | 0.0 | 0.0 | 14.8 | 0.4 | 51.169 | 1.4 | 2585.66 | 73.22 | 5181.14 | 5178.41 |
| 46.0 | 1168 | 37.6 | 1.1 | 0.0 | 0.0 | 14.4 | 0.4 | 52.069 | 1.5 | 2534.49 | 71.77 | 5181.05 | 5178.39 |
| 45.0 | 1143 | 38.8 | 1.1 | 0.0 | 0.0 | 14.1 | 0.4 | 52.914 | 1.5 | 2482.42 | 70.29 | 5180.97 | 5178.36 |
| 44.0 | 1118 | 41.3 | 1.2 | 0.0 | 0.0 | 13.3 | 0.4 | 54.659 | 1.5 | 2429.51 | 68.80 | 5180.89 | 5178.34 |
| 43.0 | 1092 | 42.6 | 1.2 | 0.0 | 0.0 | 12.9 | 0.4 | 55.559 | 1.6 | 2374.85 | 67.25 | 5180.80 | 5178.31 |
| 42.0 | 1067 | 43.8 | 1.2 | 0.0 | 0.0 | 12.6 | 0.4 | 56.405 | 1.6 | 2319.29 | 65.67 | 5180.72 | 5178.29 |
| 41.0 | 1041 | 43.8 | 1.2 | 0.0 | 0.0 | 12.6 | 0.4 | 56.405 | 1.6 | 2262.89 | 64.08 | 5180.64 | 5178.26 |
| 40.0 | 1016 | 45.1 | 1.3 | 0.0 | 0.0 | 12.2 | 0.3 | 57.305 | 1.6 | 2206.48 | 62.48 | 5180.55 | 5178.24 |
| 39.0 | 991 | 46.3 | 1.3 | 0.0 | 0.0 | 11.8 | 0.3 | 58.150 | 1.6 | 2149.18 | 60.86 | 5180.47 | 5178.21 |
| 38.0 | 965 | 47.6 | 1.3 | 0.0 | 0.0 | 11.4 | 0.3 | 59.077 | 1.7 | 2091.03 | 59.21 | 5180.39 | 5178.19 |
| 37.0 | 940 | 48.8 | 1.4 | 0.0 | 0.0 | 11.1 | 0.3 | 59.895 | 1.7 | 2031.95 | 57.54 | 5180.30 | 5178.16 |
| 36.0 | 914 | 48.9 | 1.4 | 0.0 | 0.0 | 11.1 | 0.3 | 59.923 | 1.7 | 1972.05 | 55.84 | 5180.22 | 5178.13 |
| 35.0 | 889 | 50.1 | 1.4 | 0.0 | 0.0 | 10.7 | 0.3 | 60.795 | 1.7 | 1912.13 | 54.15 | 5180.14 | 5178.11 |
| 34.0 | 864 | 50.1 | 1.4 | 0.0 | 0.0 | 10.7 | 0.3 | 60.768 | 1.7 | 1851.34 | 52.42 | 5180.05 | 5178.08 |
| 33.0 | 838 | 51.3 | 1.5 | 0.0 | 0.0 | 10.3 | 0.3 | 61.668 | 1.7 | 1790.57 | 50.70 | 5179.97 | 5178.06 |
| 32.0 | 813 | 51.3 | 1.5 | 0.0 | 0.0 | 10.3 | 0.3 | 61.668 | 1.7 | 1728.90 | 48.96 | 5179.89 | 5178.03 |
| 31.0 | 787 | 51.4 | 1.5 | 0.0 | 0.0 | 10.3 | 0.3 | 61.695 | 1.7 | 1667.23 | 47.21 | 5179.80 | 5178.01 |
| 30.0 | 762 | 52.6 | 1.5 | 0.0 | 0.0 | 9.9 | 0.3 | 62.541 | 1.8 | 1605.54 | 45.46 | 5179.72 | 5177.98 |
| 29.0 | 737 | 52.6 | 1.5 | 0.0 | 0.0 | 9.9 | 0.3 | 62.541 | 1.8 | 1543.00 | 43.69 | 5179.64 | 5177.96 |
| 28.0 | 711 | 52.6 | 1.5 | 0.0 | 0.0 | 9.9 | 0.3 | 62.541 | 1.8 | 1480.46 | 41.92 | 5179.55 | 5177.93 |
| 27.0 | 686 | 53.8 | 1.5 | 0.0 | 0.0 | 9.6 | 0.3 | 63.413 | 1.8 | 1417.92 | 40.15 | 5179.47 | 5177.91 |
| 26.0 | 660 | 53.8 | 1.5 | 0.0 | 0.0 | 9.6 | 0.3 | 63.413 | 1.8 | 1354.50 | 38.36 | 5179.39 | 5177.88 |
| 25.0 | 635 | 55.1 | 1.6 | 0.0 | 0.0 | 9.2 | 0.3 | 64.313 | 1.8 | 1291.09 | 36.56 | 5179.30 | 5177.86 |
| 24.0 | 610 | 55.1 | 1.6 | 0.0 | 0.0 | 9.2 | 0.3 | 64.286 | 1.8 | 1226.78 | 34.74 | 5179.22 | 5177.83 |
| 23.0 | 584 | 56.3 | 1.6 | 0.0 | 0.0 | 8.8 | 0.2 | 65.159 | 1.8 | 1162.49 | 32.92 | 5179.14 | 5177.80 |
| 22.0 | 559 | 56.3 | 1.6 | 0.0 | 0.0 | 8.8 | 0.2 | 65.159 | 1.8 | 1097.33 | 31.07 | 5179.05 | 5177.78 |
| 21.0 | 533 | 56.4 | 1.6 | 0.0 | 0.0 | 8.8 | 0.2 | 65.190 | 1.8 | 1032.17 | 29.23 | 5178.97 | 5177.75 |
| 20.0 | 508 | 56.3 | 1.6 | 0.0 | 0.0 | 8.8 | 0.2 | 65.191 | 1.8 | 966.98 | 27.38 | 5178.89 | 5177.73 |
| 19.0 | 483 | 57.6 | 1.6 | 0.1 | 0.0 | 8.4 | 0.2 | 66.121 | 1.9 | 901.79 | 25.54 | 5178.80 | 5177.70 |
| 18.0 | 457 | 57.6 | 1.6 | 0.1 | 0.0 | 8.4 | 0.2 | 66.135 | 1.9 | 835.67 | 23.66 | 5178.72 | 5177.68 |
| 17.0 | 432 | 57.6 | 1.6 | 0.1 | 0.0 | 8.4 | 0.2 | 66.143 | 1.9 | 769.54 | 21.79 | 5178.64 | 5177.65 |
| 16.0 | 406 | 57.6 | 1.6 | 0.1 | 0.0 | 8.4 | 0.2 | 66.148 | 1.9 | 703.39 | 19.92 | 5178.55 | 5177.63 |
| 15.0 | 381 | 58.8 | 1.7 | 0.1 | 0.0 | 8.0 | 0.2 | 66.997 | 1.9 | 637.24 | 18.04 | 5178.47 | 5177.60 |
| 14.0 | 356 | 58.9 | 1.7 | 0.1 | 0.0 | 8.0 | 0.2 | 67.029 | 1.9 | 570.25 | 16.15 | 5178.39 | 5177.58 |
| 13.0 | 330 | 60.1 | 1.7 | 0.1 | 0.0 | 7.6 | 0.2 | 67.903 | 1.9 | 503.22 | 14.25 | 5178.30 | 5177.55 |
| 12.0 | 305 | 60.2 | 1.7 | 0.1 | 0.0 | 7.6 | 0.2 | 67.933 | 1.9 | 435.31 | 12.33 | 5178.22 | 5177.52 |
| 11.0 | 279 | 60.1 | 1.7 | 0.1 | 0.0 | 7.6 | 0.2 | 67.908 | 1.9 | 367.38 | 10.40 | 5178.14 | 5177.50 |
| 10.0 | 254 | 60.2 | 1.7 | 0.2 | 0.0 | 7.6 | 0.2 | 67.942 | 1.9 | 299.47 | 8.48 | 5178.05 | 5177.47 |
| 9.0 | 229 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 231.53 | 6.56 | 5177.97 | 5177.45 |
| 8.0 | 203 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 205.81 | 5.83 | 5177.89 | 5177.42 |
| 7.0 | 178 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 180.08 | 5.10 | 5177.80 | 5177.40 |
| 6.0 | 152 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 154.35 | 4.37 | 5177.72 | 5177.37 |
| 5.0 | 127 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 128.63 | 3.64 | 5177.64 | 5177.35 |
| 4.0 | 102 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 102.90 | 2.91 | 5177.55 | 5177.32 |
| 3.0 | 76 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 77.18 | 2.19 | 5177.47 | 5177.30 |
| 2.0 | 51 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 51.45 | 1.46 | 5177.39 | 5177.27 |
| 1.0 | 25 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 | 0.7 | 25.726 | 0.7 | 25.73 | 0.73 | 5177.30 | 5177.25 |
| 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.000 | 0.0 | 0.00 | 0.00 | 5177.22 | 5177.22 |

Top of Stone Elevation

Top of Chamber Elevation

Bottom of Chamber Elevation

Bottom of Stone Elevation

PEAK FLOW CALCULATIONS



PROJECT NAME: C0852 Montgomery Blvd Albuquerque NM

PROJECT NUMBER: 9004200

CALCULATED BY: LW

CHECKED BY: CK/LN

DATE: 11/22/2021

RATIONAL CALCULATIONS SUMMARY

| DESIGN POINT | TRIBUTARY BASINS | TRIBUTARY AREA (AC) | PEAK FLOWS (CFS) |
|----------------|------------------|---------------------|------------------|
| | | | Q100 |
| On-Site Basins | | | |
| 1 | DA-1 | 0.34 | 1.71 |
| 2 | DA-2 | 0.03 | 0.15 |
| 3 | DA-3 | 0.27 | 1.31 |
| 4 | DA-4 | 0.43 | 2.17 |
| 6 | DA-6 | 0.11 | 0.55 |
| 7 | DA-7 | 0.05 | 0.26 |
| 9 | DA-9 | 0.21 | 1.05 |
| TOTAL | | 1.22 | 6.14 |

FLOWMASTER OUTPUT – PIPE SIZE VERIFICATION

STR 1 - STR 2 (12")

| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.005 ft/ft |
| Diameter | 12.0 in |
| Discharge | 1.71 cfs |
| Results | |
| Normal Depth | 6.2 in |
| Flow Area | 0.4 ft ² |
| Wetted Perimeter | 1.6 ft |
| Hydraulic Radius | 3.0 in |
| Top Width | 1.00 ft |
| Critical Depth | 6.7 in |
| Percent Full | 51.3 % |
| Critical Slope | 0.004 ft/ft |
| Velocity | 4.22 ft/s |
| Velocity Head | 0.28 ft |
| Specific Energy | 0.79 ft |
| Froude Number | 1.167 |
| Maximum Discharge | 3.52 cfs |
| Discharge Full | 3.27 cfs |
| Slope Full | 0.001 ft/ft |
| Flow Type | Supercritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 51.3 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 6.2 in |
| Critical Depth | 6.7 in |
| Channel Slope | 0.005 ft/ft |
| Critical Slope | 0.004 ft/ft |

STR 2 - STR 3 (12")

| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.005 ft/ft |
| Diameter | 12.0 in |
| Discharge | 1.86 cfs |
| Results | |
| Normal Depth | 6.5 in |
| Flow Area | 0.4 ft ² |
| Wetted Perimeter | 1.7 ft |
| Hydraulic Radius | 3.1 in |
| Top Width | 1.00 ft |
| Critical Depth | 7.0 in |
| Percent Full | 54.0 % |
| Critical Slope | 0.004 ft/ft |
| Velocity | 4.30 ft/s |
| Velocity Head | 0.29 ft |
| Specific Energy | 0.83 ft |
| Froude Number | 1.152 |
| Maximum Discharge | 3.52 cfs |
| Discharge Full | 3.27 cfs |
| Slope Full | 0.002 ft/ft |
| Flow Type | Supercritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 54.0 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 6.5 in |
| Critical Depth | 7.0 in |
| Channel Slope | 0.005 ft/ft |
| Critical Slope | 0.004 ft/ft |

STR 3 - CHAMBERS (12")

| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.005 ft/ft |
| Diameter | 12.0 in |
| Discharge | 3.17 cfs |
| Results | |
| Normal Depth | 9.5 in |
| Flow Area | 0.7 ft ² |
| Wetted Perimeter | 2.2 ft |
| Hydraulic Radius | 3.6 in |
| Top Width | 0.81 ft |
| Critical Depth | 9.2 in |
| Percent Full | 79.2 % |
| Critical Slope | 0.005 ft/ft |
| Velocity | 4.75 ft/s |
| Velocity Head | 0.35 ft |
| Specific Energy | 1.14 ft |
| Froude Number | 0.924 |
| Maximum Discharge | 3.52 cfs |
| Discharge Full | 3.27 cfs |
| Slope Full | 0.005 ft/ft |
| Flow Type | Subcritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 52.0 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 9.5 in |
| Critical Depth | 9.2 in |
| Channel Slope | 0.005 ft/ft |
| Critical Slope | 0.005 ft/ft |

STR 4 - STR 6 (12")

| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.005 ft/ft |
| Diameter | 12.0 in |
| Discharge | 2.17 cfs |
| Results | |
| Normal Depth | 7.1 in |
| Flow Area | 0.5 ft ² |
| Wetted Perimeter | 1.8 ft |
| Hydraulic Radius | 3.3 in |
| Top Width | 0.98 ft |
| Critical Depth | 7.6 in |
| Percent Full | 59.5 % |
| Critical Slope | 0.004 ft/ft |
| Velocity | 4.46 ft/s |
| Velocity Head | 0.31 ft |
| Specific Energy | 0.90 ft |
| Froude Number | 1.116 |
| Maximum Discharge | 3.52 cfs |
| Discharge Full | 3.27 cfs |
| Slope Full | 0.002 ft/ft |
| Flow Type | Supercritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 59.5 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 7.1 in |
| Critical Depth | 7.6 in |
| Channel Slope | 0.005 ft/ft |
| Critical Slope | 0.004 ft/ft |

STR 6 - STR 8 (12")

| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.017 ft/ft |
| Diameter | 12.0 in |
| Discharge | 2.72 cfs |
| Results | |
| Normal Depth | 5.7 in |
| Flow Area | 0.4 ft ² |
| Wetted Perimeter | 1.5 ft |
| Hydraulic Radius | 2.9 in |
| Top Width | 1.00 ft |
| Critical Depth | 8.5 in |
| Percent Full | 47.4 % |
| Critical Slope | 0.005 ft/ft |
| Velocity | 7.42 ft/s |
| Velocity Head | 0.86 ft |
| Specific Energy | 1.33 ft |
| Froude Number | 2.160 |
| Maximum Discharge | 6.42 cfs |
| Discharge Full | 5.97 cfs |
| Slope Full | 0.003 ft/ft |
| Flow Type | Supercritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 47.4 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 5.7 in |
| Critical Depth | 8.5 in |
| Channel Slope | 0.017 ft/ft |
| Critical Slope | 0.005 ft/ft |

STR 7 - STR 8 (12")

| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.005 ft/ft |
| Diameter | 12.0 in |
| Discharge | 0.26 cfs |
| Results | |
| Normal Depth | 2.3 in |
| Flow Area | 0.1 ft ² |
| Wetted Perimeter | 0.9 ft |
| Hydraulic Radius | 1.4 in |
| Top Width | 0.79 ft |
| Critical Depth | 2.5 in |
| Percent Full | 19.1 % |
| Critical Slope | 0.003 ft/ft |
| Velocity | 2.49 ft/s |
| Velocity Head | 0.10 ft |
| Specific Energy | 0.29 ft |
| Froude Number | 1.203 |
| Maximum Discharge | 3.52 cfs |
| Discharge Full | 3.27 cfs |
| Slope Full | 0.000 ft/ft |
| Flow Type | Supercritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 19.1 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 2.3 in |
| Critical Depth | 2.5 in |
| Channel Slope | 0.005 ft/ft |
| Critical Slope | 0.003 ft/ft |

STR 8 - STR 9 (12")

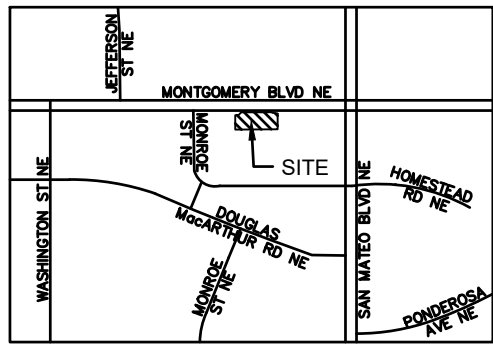
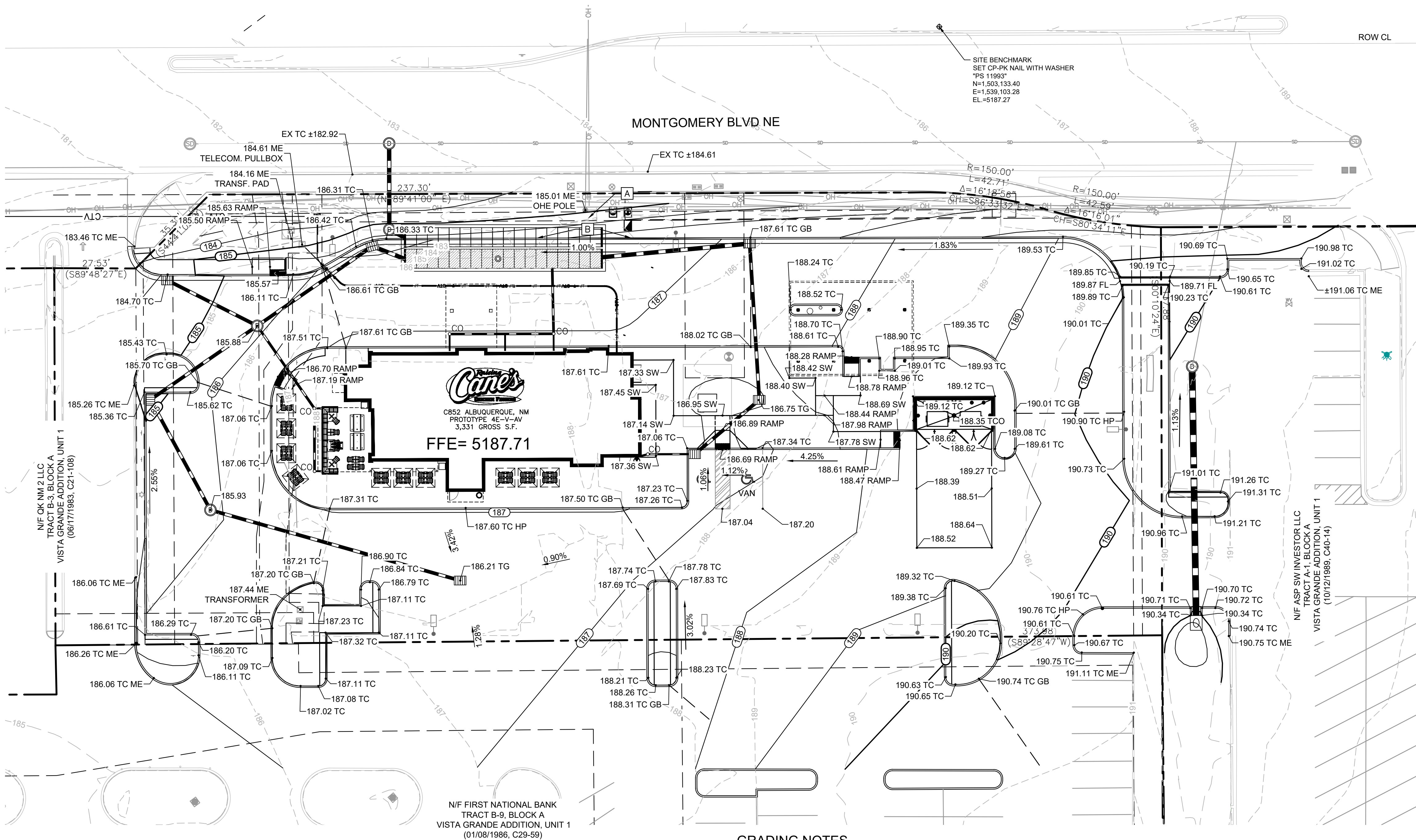
| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.005 ft/ft |
| Diameter | 12.0 in |
| Discharge | 2.98 cfs |
| Results | |
| Normal Depth | 9.0 in |
| Flow Area | 0.6 ft ² |
| Wetted Perimeter | 2.1 ft |
| Hydraulic Radius | 3.6 in |
| Top Width | 0.87 ft |
| Critical Depth | 8.9 in |
| Percent Full | 74.9 % |
| Critical Slope | 0.005 ft/ft |
| Velocity | 4.72 ft/s |
| Velocity Head | 0.35 ft |
| Specific Energy | 1.10 ft |
| Froude Number | 0.977 |
| Maximum Discharge | 3.52 cfs |
| Discharge Full | 3.27 cfs |
| Slope Full | 0.004 ft/ft |
| Flow Type | Subcritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 19.1 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 9.0 in |
| Critical Depth | 8.9 in |
| Channel Slope | 0.005 ft/ft |
| Critical Slope | 0.005 ft/ft |

STR 9 - CHAMBERS (15")

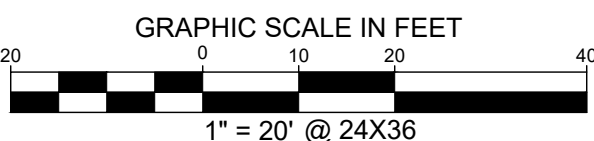
| Project Description | |
|-----------------------------|---------------------|
| Friction Method | Manning |
| Solve For | Formula |
| | Normal Depth |
| Input Data | |
| Roughness Coefficient | 0.010 |
| Channel Slope | 0.005 ft/ft |
| Diameter | 15.0 in |
| Discharge | 4.03 cfs |
| Results | |
| Normal Depth | 9.1 in |
| Flow Area | 0.8 ft ² |
| Wetted Perimeter | 2.2 ft |
| Hydraulic Radius | 4.2 in |
| Top Width | 1.22 ft |
| Critical Depth | 9.7 in |
| Percent Full | 60.4 % |
| Critical Slope | 0.004 ft/ft |
| Velocity | 5.20 ft/s |
| Velocity Head | 0.42 ft |
| Specific Energy | 1.18 ft |
| Froude Number | 1.152 |
| Maximum Discharge | 6.39 cfs |
| Discharge Full | 5.94 cfs |
| Slope Full | 0.002 ft/ft |
| Flow Type | Supercritical |
| GVF Input Data | |
| Downstream Depth | 0.0 in |
| Length | 0.0 ft |
| Number Of Steps | 0 |
| GVF Output Data | |
| Upstream Depth | 0.0 in |
| Profile Description | N/A |
| Profile Headloss | 0.00 ft |
| Average End Depth Over Rise | 0.0 % |
| Normal Depth Over Rise | 60.4 % |
| Downstream Velocity | Infinity ft/s |
| Upstream Velocity | Infinity ft/s |
| Normal Depth | 9.1 in |
| Critical Depth | 9.7 in |
| Channel Slope | 0.005 ft/ft |
| Critical Slope | 0.004 ft/ft |

APPENDIX C: RELEVANT DOCUMENTS

GRADING PLAN



VICINITY MAP
(NOT TO SCALE)



LEGEND

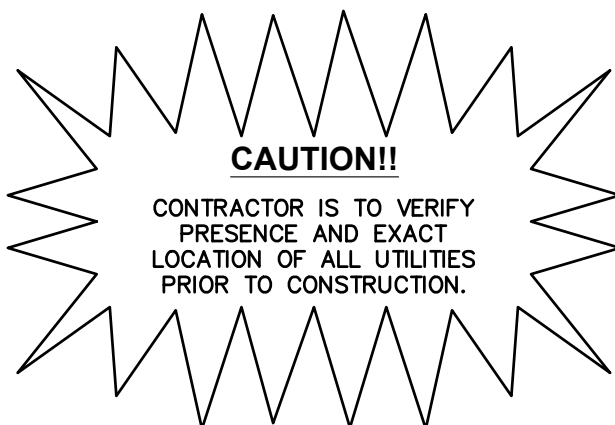
| | |
|-----|--------------------------------|
| --- | PROPOSED PROPERTY LINE |
| --- | ADJACENT PROPERTY LINE |
| --- | EXISTING CONTOUR |
| --- | PROPOSED CONTOUR |
| --- | PROPOSED FLOW ARROW WITH SLOPE |
| --- | PROPOSED SPOT ELEVATION |
| --- | EXISTING STORM INLET |
| GB | GRADE BREAK |
| HP | HIGH POINT |
| P | TOP OF PAVEMENT |
| SW | TOP OF SIDEWALK |
| ME | MATCH EXISTING ELEVATION |
| TG | TOP OF GRATE |
| FL | FLOW LINE |
| TCO | TOP OF CLEANOUT |
| --- | PROPOSED RIDGE |

GRADING NOTES

- ADD 5000' TO ALL SPOT ELEVATIONS & CONTOUR LABELS.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE CITY/AHJ STANDARDS AND SPECIFICATIONS.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENTS TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE ARE ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING FOOTPRINT DIMENSIONS.
- CONTRACTOR SHALL REFER TO FINAL GEOTECH REPORT FOR BUILDING SUBGRADE AND SITE PREPARATION REQUIREMENTS.
- CONTRACTOR SHALL ADJUST EXISTING VALVES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH FINISHED GRADE.
- ALL ELEVATIONS ARE TOP OF PAVEMENT UNLESS NOTED OTHERWISE. TO GET TOP OF CURB ELEVATIONS ADD 6" TO THE ELEVATION SHOWN.
- GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO ADA STANDARDS. SLOPES SHALL NOT EXCEED 5% LONGITUDINAL SLOPE OR 2% CROSS SLOPE. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION.
- ANY PROPOSED CONTOURS SHOWN ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
- REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING GRADING OPERATIONS.
- ALL FILL TO BE PLACED SHALL BE IN ACCORDANCE WITH THE CURRENT APPLICABLE GEOTECHNICAL REPORT RECOMMENDATIONS.

GRADING CONSTRUCTION NOTES

| | |
|---|---|
| A | 3:1 CUT SLOPE BETWEEN EDGE OF EXISTING OVERHEAD ELECTRIC POLE AND TOP OF PROPOSED CURB. REFERENCE GRADING NOTE 5 THIS SHEET |
| B | EXPOSED CURB |



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tel: 972-769-3100 Fax: 972-769-3101

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

© 2022 KIMLEY-HORN
AND ASSOCIATES, INC.

13455 Noel Road
Two Galleria Office Tower
Suite 700
Dallas, TX 75240
CONTACT: LAUREN NUFFER, P.E.
(972) 770-1300
LAUREN.NUFFER@KIMLEY-HORN.COM
LIZ WILLMOT, P.E.
LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

| | |
|--------------|------------------|
| Date Issued: | Bulletin Number: |
| -- | -- |

2ND BLDG. RESUBMITTAL

REVISIONS:

| | | |
|---|------------|----------------------|
| 1 | 11/12/2021 | 80% REVIEW SET |
| 2 | 11/30/2021 | 1ST BLDG SUBMITTAL |
| 3 | 12/20/2021 | 1ST BLDG RESUBMITTAL |
| 4 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |

Sheet Title:

GRADING PLAN

Date: 02.28.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C6.0

STORM DRAINAGE PLAN

RAISING CANES 0852

4800 MONTGOMERY BLVD. NE

ALBUQUERQUE, NM

DRAWING INDEX

| TITLE | SHEET NO. |
|--------------------------|-----------|
| COVER SHEET | 1 OF 5 |
| SYSTEM LAYOUT SHEET | 2 OF 5 |
| SYSTEM CALCULATION SHEET | 3 OF 5 |
| SYSTEM OVERLAY SHEET | 4 OF 5 |
| 902HD DETAIL SHEET | 5 OF 5 |

| PROJECT INFORMATION | | | | |
|----------------------------|---|-----------|---|-----|
| PROJECT NO: | 21-5786 | | | |
| CULTEC SALES REP: | CAMERON BROWN 475-289-7084 CBROWN@CULTEC.COM | | | |
| CULTEC PROJECT SUPERVISOR: | ANN SCHWENZER 475-289-7116 ASCHWENZER@CULTEC.COM | | | |
| CULTEC CAD TECH: | TYLER BRUSH 475-289-7120 TBRUSH@CULTEC.COM | | | |
| COMMENTS: | REVISION | DATE | COMMENT | BY |
| | 01 | 12/20/21 | ADJUSTED SYSTEM PER UPDATED ELEVATIONS AND 30% STONE POROSITY | TNB |
| | 02 | 1/13/2022 | ADJUSTED SYSTEM LOCATION PER ENGINEER | GCH |
| | 03 | 2/25/2022 | REVISED ELEVATIONS PER ENGINEER FOR ADJUSTED WATER QUALITY | JIG |

BEFORE YOU BEGIN - REQUIRED MATERIALS AND EQUIPMENT

1. PROPER GEOTECHNICAL SOIL EVALUATION BY A QUALIFIED ENGINEER OR SOIL SCIENTIST TO DETERMINE SUITABILITY OF STRUCTURAL INSTALLATION
2. OSHA COMPLIANCE
3. CULTEC WARNING TAPE, OR EQUIVALENT
4. ASSURANCES FROM LOCAL UTILITIES THAT NO UNDERGROUND GAS, ELECTRICAL OR OTHER POTENTIALLY DANGEROUS PIPELINES OR CONDUITS ARE ALREADY BURIED AT THE SITE
5. ACCEPTABLE 1- 2 INCH (25 - 51 mm) WASHED, CRUSHED STONE AS DETAILED IN CULTEC'S INSTALLATION INSTRUCTIONS. CLEANLINESS OF STONE TO BE VERIFIED BY ENGINEER.
6. ACCEPTABLE FILL MATERIAL AS SHOWN IN CULTEC'S INSTALLATION INSTRUCTIONS.
7. ALL CULTEC CHAMBERS AND ACCESSORIES AS SPECIFIED IN THE ENGINEER'S PLANS INCLUDING CULTEC NO. 410 NON-WOVEN GEOTEXTILE, CULTEC STORMFILTER AND CULTEC NO. 4800 WOVEN GEOTEXTILE, WHERE APPLICABLE.
8. RECIPROCATING SAW OR ROUTER
9. STONE BUCKET
10. STONE CONVEYOR AND/OR TRACKED EXCAVATOR
11. TRANSIT OR LASER LEVEL MEASURING DEVICE
12. COMPACTION EQUIPMENT WITH MAXIMUM GROSS VEHICLE WEIGHT OF 12,000 LBS (5,440 KGS). VIBRATORY ROLLERS MAY ONLY BE USED ON THE STONE BASE PRIOR TO THE INSTALLATION OF CHAMBERS.
13. CHECK CULTEC CHAMBERS FOR DAMAGE PRIOR TO INSTALLATION. DO NOT USE DAMAGED CULTEC CHAMBERS, CONTACT YOUR SUPPLIER IMMEDIATELY TO REPORT DAMAGE OR PACKING-LIST DISCREPANCIES.

REQUIREMENTS FOR CULTEC CHAMBER SYSTEM INSTALLATIONS

1. INSTALLING CONTRACTORS ARE EXPECTED TO COMPREHEND AND USE THE MOST CURRENT INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING A SYSTEM INSTALLATION. IF THERE IS ANY QUESTION AS TO WHETHER YOU POSSESS THE MOST CURRENT INSTRUCTIONS, CONTACT CULTEC AT (203) 775-4416 OR VISIT WWW.CULTEC.COM.
2. CONTACT CULTEC AT LEAST THIRTY DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE FOR A PRE-CONSTRUCTION MEETING.
3. ALL CULTEC SYSTEM DESIGNS MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
4. USE CULTEC INSTALLATION INSTRUCTIONS AS A GUIDELINE ONLY FOR MINIMUM/MAXIMUM REQUIREMENTS. ACTUAL DESIGN MAY VARY. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR JOB-SPECIFIC DETAILS. BE SURE TO FOLLOW THE ENGINEER'S DRAWINGS AS YOUR PRIMARY GUIDE.
5. THE FOUNDATION STONE SHALL BE LEVEL AND COMPACTED PRIOR TO CHAMBER INSTALLATION.
6. OVERLAPPING RIB CONNECTIONS OF CHAMBERS SHALL BE FULLY SHOULDERED PRIOR TO STONE PLACEMENT.
7. CENTER-TO-CENTER SPACING SHALL BE CHECKED AND MAINTAINED THROUGHOUT INSTALLATION PROCESS.
8. ANY DISCREPANCIES WITH THE SYSTEM SUB-GRADE SOIL'S BEARING CAPACITY MUST BE REPORTED TO THE DESIGN ENGINEER.
9. NON-WOVEN GEOTEXTILE MUST BE USED AS SPECIFIED IN THE ENGINEER'S DRAWINGS.
10. CULTEC REQUIRES THE CONTRACTOR TO REFER TO CULTEC'S INSTALLATION INSTRUCTIONS CONCERNING VEHICULAR TRAFFIC. RESPONSIBILITY FOR PREVENTING VEHICLES THAT EXCEED CULTEC'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE CHAMBER SYSTEM LIES SOLELY WITH THE CONTRACTOR THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS. THE PLACEMENT OF WARNING TAPE, TEMPORARY FENCING, AND/OR APPROPRIATELY LOCATED SIGNS IS HIGHLY RECOMMENDED. IMPRINTED WARNING TAPE IS AVAILABLE FROM CULTEC. FOR ACCEPTABLE VEHICLE LOAD INFORMATION, REFER TO CULTEC INSTALLATION INSTRUCTIONS.
11. TRAFFIC OF INSTALLATION EQUIPMENT OR OTHER VEHICULAR TRAFFIC OVER TOP OF THE CULTEC STORMWATER SYSTEM IS STRICTLY RESTRICTED AND PROHIBITED UNTIL SATISFACTORY COVER AND COMPACTION IS ACHIEVED ACCORDING TO CULTEC'S MANUFACTURER INSTALLATION INSTRUCTIONS.
12. EROSION AND SEDIMENT-CONTROL MEASURES MUST MEET LOCAL CODES AND THE DESIGN ENGINEER'S SPECIFICATIONS THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS.
13. CULTEC SYSTEMS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. FAILURE TO DO SO WILL VOID THE LIMITED WARRANTY.
14. CONTACT CULTEC, INC. AT 203-775-4416 WITH ANY QUESTIONS OR FURTHER CLARIFICATION OF REQUIREMENTS.
15. PLACEMENT OF EMBEDMENT STONE MUST BE IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS. STONE COLUMN HEIGHT DEFERENTIAL MUST NEVER EXCEED 12" (305 mm) BETWEEN CHAMBER ROWS, ADJACENT CHAMBERS OR STONE PERIMETER. STONE MUST BE PLACED OVER THE CROWN OF THE CHAMBERS TO ANCHOR THE CHAMBERS IN PLACE AND MAINTAIN ROW SPACING.
16. EMBEDMENT STONE MUST ONLY BE PLACED BY EXCAVATOR OR TELESCOPING CONVEYOR BOOM. PLACEMENT OF EMBEDMENT STONE WITH BULLDOZER IS NOT AN ACCEPTABLE METHOD OF INSTALLATION AND MAY CAUSE DAMAGE TO THE CHAMBERS. ANY CHAMBERS DAMAGED USING AN UNACCEPTABLE METHOD OF BACKFILL ARE NOT COVERED UNDER THE CULTEC LIMITED WARRANTY.



CULTEC, Inc.

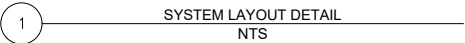
Subsurface Stormwater Management Systems

P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com

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PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

NOTE: THESE SHOP DRAWINGS MAY CONTAIN COMPONENTS INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, STORM PIPES AND FITTINGS, MANIFOLDS, CASTINGS AND OTHER NECESSARY APPURTENANCES THAT MAY NOT BE SUPPLIED BY CULTEC, INC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUPPLIER TO CONFIRM WITH CULTEC THE MATERIALS PROVIDED.

THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS.



| MATERIALS LIST SUPPLIED BY CULTEC | | |
|---------------------------------------|-----|-------------|
| CULTEC RECHARGER 902HD CHAMBER | 36 | PIECES |
| CULTEC RECHARGER 902HD END CAP | 4 | PIECES |
| CULTEC HVLV FC-48 FEED CONNECTORS | 0 | PIECES |
| CULTEC NO. 410 NON-WOVEN GEOTEXTILE | 535 | SQ. YARDS |
| CULTEC NO. 4800 WOVEN GEOTEXTILE | 87 | LINEAL FEET |
| CULTEC INSPECTION PORT KIT | 1 | PIECES |
| MATERIALS LIST NOT SUPPLIED BY CULTEC | | |
| 1-2 INCH WASHED, CRUSHED STONE | 146 | CUBIC YARDS |
| 8 OZ. NON-WOVEN GEOTEXTILE | N/A | SQ. YARDS |
| 30 MIL. PVC THERMOPLASTIC LINER | N/A | SQ. YARDS |

| PROPOSED SYSTEM ALTERATION TABLE | |
|----------------------------------|---|
| 1 | PROPOSED 4' DIAMETER PRECAST MANHOLE |
| 2 | MAXIMUM INVERT INTO SIDE PORTAL WITH 8" HDPE |
| 3 | MAXIMUM INVERT FOR 15" HDPE CONNECTION TO CHAMBER END |

CULTEC, Inc.
Subsurface Stormwater Management Systems

P.O. Box 280
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Brookfield, CT 06804

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FX: (203) 775-1462
tech@cultec.com
www.cultec.com

CULTEC

THIS DRAWING WAS PREPARED TO SUPPORT THE DESIGN ENGINEER FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ASSURE THAT THE STORMWATER SYSTEMS DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. CULTEC INC. DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS. THE DESIGNING ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS.

1.02



CULTEC Recharger 902HD Stormwater System Calculations

Consulting Engineer:

Kimley-Horn
13455 Noel Road
Two Galleria Office Tower - Suite 700
Dallas, TX. 75240
PH: 972-770-1300

Calculations Performed By:

Johnny Gonzalez
CULTEC, Inc.
878 Federal Rd.
Brookfield, CT 06804

Project Information:

Raising Canes 0852
4800 Montgomery Blvd. NE
Albuquerque, NM

Date:

2/25/22

Project Number:

21-5786.03

System Information

Rectangular Bed Inputs

No. of Rows 2

No. of Chambers/Row 18

Given:

Storage required 3,425 CF
No. 4800 Fabric For Internal/External Manifolds
Number of Inlet/Outlet Pipes (Do Not Include Separator Rows)

Stone Base 9 inches
Stone Above 12 inches
Spacing Between Rows 9 inches
No. of HVLV FC-48 Feed Connectors 0 units
No. of CULTEC Inspection Ports 1 units
Stone Porosity 30 %
Stone Border Width 12 inches

Other Parameters:

Length of Separator Row 67 feet

Type of Lining None

Sand Filter Depth (If Applicable)

Sloped Sides (1:1) (If Applicable)

Discount stone base from total storage provided (If Applicable)
Discount stone above from total storage provided (If Applicable)

Maximum Finished Grade Elevation: 5190.27
Minimum Finished Grade Elevation (Unpaved): 5184.47
Minimum Finished Grade Elevation (Base of Flexible Pavement): 5183.97
Minimum Finished Grade Elevation (Top of Rigid Pavement): 5183.97
Top of Stone Elevation: 5182.97
Top of Chamber Elevation: 5181.97
Bottom of Chamber Elevation: 5177.97
Bottom of Stone Elevation: 5177.22

Assumptions

| Model Name | | Chamber Height | | Design Unit Height | | Chamber Width | Chamber Spacing | | Design Unit Width | Chamber Volume per Linear Foot | | Design Unit Volume | Installed Chamber Length |
|-----------------------------|---------|----------------|-------|--------------------|------|---------------|-----------------|--------|-------------------|--------------------------------|---------|--------------------|--------------------------|
| | | inches | feet | inches | feet | | inches | feet | | cu. ft/ft | cu. m/m | | feet |
| Recharger® 902HD Chamber | English | 48 | 5.750 | 78 | 9 | 7.25 | 17.31 | 24.623 | 3.667 | | | | |
| | Metric | 1219 | 1.753 | 1981 | 229 | 2.21 | 1.608 | 2.287 | 1.118 | | | | |
| Recharger® 902HD End Cap | English | 48.5 | 5.750 | 78 | 9 | 7.25 | 5.509 | 16.363 | 0.501 | | | | |
| | Metric | 1232 | 1.753 | 1981 | 229 | 2.21 | 0.512 | 1.520 | 0.153 | | | | |
| HVLV™ FC-48 Feed Connectors | English | 12 | n/a | 16 | n/a | n/a | 0.913 | n/a | 0.750 | | | | |
| | Metric | 305 | n/a | 406 | n/a | n/a | 0.085 | n/a | 0.229 | | | | |

Storage Provided within CULTEC Recharger 902HD Stormwater Chamber, End Caps and HVLV FC-48 Feed Connector Internal Manifold System - not including stone

| | | | | | | | | | | | | | |
|---|---|-------------|--|--|--|--|--|--|----------|--|--|--|--|
| Number of Recharger 902HD chambers by design | = | 36 pcs | | | | | | | | | | | |
| 36 pcs x 3.667 | = | 132.00 feet | | | | | | | 40.23 m | | | | |
| Number of Recharger 902HD end caps | = | 4 pcs | | | | | | | | | | | |
| 4 pcs x 0.501 | = | 2.00 feet | | | | | | | 0.61 m | | | | |
| Number of HVLV FC-48 Feed Connectors | = | 0 pcs | | | | | | | | | | | |
| 0 pcs x 0.750 | = | 0.00 feet | | | | | | | 0.00 m | | | | |
| Total footage of Recharger 902HD chambers | = | 132.00 feet | | | | | | | 40.23 m | | | | |
| Total footage of Recharger 902HD end caps | = | 2.00 feet | | | | | | | | | | | |
| Total footage of HVLV FC-48 Feed Connectors | = | 0.00 feet | | | | | | | 0.00 m | | | | |
| Storage provided within Recharger 902HD chambers | = | 2284.94 CF | | | | | | | 64.71 m³ | | | | |
| Storage provided within Recharger 902HD end caps | = | 11.04 CF | | | | | | | 0.31 m³ | | | | |
| Storage provided within HVLV FC-48 feed connectors | = | 0.00 CF | | | | | | | 0.00 m³ | | | | |
| Total Storage within Recharger 902HD chambers and feed connectors | = | 2295.98 CF | | | | | | | 65.02 m³ | | | | |

Storage Provided within Entire CULTEC Stormwater System - including stone

| | | |
|---|-----------------|-----------|
| Bed width | 15.75 feet | 4.80 m |
| Bed length | 69.00 feet | 21.03 m |
| Bed Depth | 5.75 feet | 1.75 m |
| Total Area | 1086.79 sq. ft. | 100.96 m² |
| Volume of Effective Excavation (not including additional cover) | 6249.05 CF | 176.97 m³ |
| Perimeter of Bed | 169.51 feet | 51.67 m |
| Total Storage within chambers, end caps and feed connectors | 2295.98 CF | 65.02 m³ |
| Total Stone Required | 3953.07 CF | 111.95 m³ |
| | 146 CY | |
| | 205 tons | |
| Storage provided within stone | 1185.92 CF | 33.59 m³ |

Total Storage within CULTEC Stormwater System = 3482 CF 99 m³

Req. storage attained.

CULTEC MATERIALS LIST

| Model | Model # | Quantity | Unit of Measure | Quantity | Unit of Measure |
|---|--------------|----------|-----------------|----------|-----------------|
| Recharger 902HD Heavy Duty Chamber | 902HD | 36 | pcs | | |
| Recharger 902HD End Cap | 902HD EC | 4 | pcs | | |
| HVLV FC-48 Feed Connectors | FC-48 | 0 | pcs | | |
| CULTEC No. 410 Non-Woven Geotextile | NWG410 | 535 | Sq. Yards | 447 | m² |
| CULTEC No. 4800 Woven Geotextile 7.5' x 100' (2.29 m x 30.48 m) | 75WG4800 | 87 | feet | 26 | m |
| CULTEC Inspection Port Kit | INSP KIT 126 | 1 | pcs | | |
| Total Stone | | 146 | cubic yards | 112 | cubic meters |

DISCLAIMER: If this is a value-engineered project based on a competitor's design.

The following inputs and calculations are based upon limited design information provided to CULTEC by a third-party. An engineer should review the inputs to confirm accuracy of the assumptions.

SYSTEM STORAGE CALCULATION



CULTEC Recharger 902HD Stormwater Incremental Storage

Date: February 25, 2022

Project Information

Raising Canes 0852
4800 Montgomery Blvd. NE
Albuquerque, NM

Project Number

21-5786.03

Base of Stone Elevation- 5177.22

CULTEC Recharger 902HD Incremental Storage Volumes

| Height of System | | End Cap Volume | | Chamber Volume | | HVLV FC-48 Feed Connector Volume | | Stone Volume | | Cumulative Storage Volume | | Total Cumulative Storage Volume | | Elevation | |
|------------------|------|----------------|------|----------------|------|----------------------------------|------|--------------|------|---------------------------|------|---------------------------------|-------|-----------|---------|
| in | mm | ft³ | m³ | ft³ | m³ | ft³ | m³ | ft³ | m³ | ft³ | m³ | ft³ | m³ | ft | m |
| 69.00 | 1753 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3482 | 98.59 | 5182.97 | 5178.97 |
| 68.00 | 1727 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3454 | 97.82 | 5182.89 | 5178.95 |
| 67.00 | 1702 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3427 | 97.05 | 5182.80 | 5178.92 |
| 66.00 | 1676 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3400 | 96.28 | 5182.72 | 5178.90 |
| 65.00 | 1651 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3373 | 95.51 | 5182.64 | 5178.87 |
| 64.00 | 1626 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3346 | 94.74 | 5182.55 | 5178.85 |
| 63.00 | 1600 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3319 | 93.97 | 5182.47 | 5178.82 |
| 62.00 | 1575 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3291 | 93.20 | 5182.39 | 5178.79 |
| 61.00 | 1549 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3264 | 92.43 | 5182.30 | 5178.77 |
| 60.00 | 1524 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3237 | 91.66 | 5182.22 | 5178.74 |
| 59.00 | 1499 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3210 | 90.90 | 5182.14 | 5178.72 |
| 58.00 | 1473 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 3183 | 90.13 | 5182.05 | 5178.69 |
| 57.00 | 1448 | 0.08 | 0.00 | 2.64 | 0.07 | 0.00 | 0.00 | 26.35 | 0.75 | 29.072 | 0.82 | 3156 | 89.36 | 5181.97 | 5178.67 |
| 56.00 | 1422 | 0.12 | 0.00 | 6.60 | 0.19 | 0.00 | 0.00 | 25.15 | 0.71 | 31.871 | 0.90 | 3127 | 88.53 | 5181.89 | 5178.64 |
| 55.00 | 1397 | 0.12 | 0.00 | 9.24 | 0.26 | 0.00 | 0.00 | 24.36 | 0.69 | 33.719 | 0.95 | 3095 | 87.63 | 5181.80 | 5178.62 |
| 54.00 | 1372 | 0.16 | 0.00 | 15.84 | 0.45 | 0.00 | 0.00 | 22.37 | 0.63 | 38.366 | 1.09 | 3061 | 86.68 | 5181.72 | 5178.59 |
| 53.00 | 1346 | 0.19 | 0.01 | 21.12 | 0.60 | 0.00 | 0.00 | 20.78 | 0.59 | 42.089 | 1.19 | 3023 | 85.59 | 5181.64 | 5178.57 |
| 52.00 | 1321 | 0.16 | 0.00 | 26.40 | 0.75 | 0.00 | 0.00 | 19.20 | 0.54 | 45.758 | 1.30 | 2980 | 84.40 | 5181.55 | 5178.54 |
| 51.00 | 1295 | 0.19 | 0.01 | 29.04 | 0.82 | 0.00 | 0.00 | 18.40 | 0.52 | 47.633 | 1.35 | 2935 | 83.10 | 5181.47 | 5178.52 |
| 50.00 | 1270 | 0.19 | 0.01 | 31.68 | 0.90 | 0.00 | 0.00 | 17.61 | 0.50 | 49.481 | 1.40 | 2887 | 81.75 | 5181.39 | 5178.49 |
| 49.00 | 1245 | 0.19 | 0.01 | 35.64 | 1.01 | 0.00 | 0.00 | 16.42 | 0.46 | 52.253 | 1.48 | 2838 | 80.35 | 5181.30 | 5178.46 |
| 48.00 | 1219 | 0.19 | 0.01 | 35.64 | 1.01 | 0.00 | 0.00 | 16.42 | 0.46 | 52.253 | 1.48 | 2785 | 78.67 | 5181.22 | 5178.44 |
| 47.00 | 1194 | 0.19 | 0.01 | 38.28 | 1.08 | 0.00 | 0.00 | 15.63 | 0.44 | 54.101 | 1.53 | 2733 | 77.39 | 5181.14 | 5178.41 |
| 46.00 | 1168 | 0.23 | 0.01 | 39.60 | 1.12 | 0.00 | 0.00 | 15.22 | 0.43 | 55.053 | 1.56 | 2679 | 75.86 | 5181.05 | 5178.39 |
| 45.00 | 1143 | 0.19 | 0.01 | 40.92 | 1.16 | 0.00 | 0.00 | 14.84 | 0.42 | 55.949 | 1.58 | 2624 | 74.30 | 5180.97 | 5178.36 |
| 44.00 | 1118 | 0.19 | 0.01 | 43.56 | 1.23 | 0.00 | 0.00 | 14.04 | 0.40 | 57.797 | 1.64 | 2568 | 72.72 | 5180.89 | 5178.34 |
| 43.00 | 1092 | 0.23 | 0.01 | 44.88 | 1.27 | 0.00 | 0.00 | 13.64 | 0.39 | 58.749 | 1.66 | 2510 | 71.08 | 5180.80 | 5178.31 |
| 42.00 | 1067 | 0.19 | 0.01 | 46.20 | 1.31 | 0.00 | 0.00 | 13.25 | 0.38 | 59.645 | 1.69 | 2451 | 69.42 | 5180.72 | 5178.29 |
| 41.00 | 1041 | 0.19 | 0.01 | 46.20 | 1.31 | 0.00 | 0.00 | 13.25 | 0.38 | 59.645 | 1.69 | 2392 | 67.73 | 5180.64 | 5178.26 |
| 40.00 | 1016 | 0.23 | 0.01 | 47.52 | 1.35 | 0.00 | 0.00 | 12.84 | 0.36 | 60.597 | 1.72 | 2332 | 66.04 | 5180.55 | 5178.24 |
| 39.00 | 991 | 0.19 | 0.01 | 48.84 | 1.38 | 0.00 | 0.00 | 12.46 | 0.35 | 61.493 | 1.74 | 2272 | 64.32 | 5180.47 | 5178.21 |
| 38.00 | 965 | 0.27 | 0.01 | 50.16 | 1.42 | 0.00 | 0.00 | 12.04 | 0.34 | 62.472 | 1.77 | 2210 | 62.58 | 5180.39 | 5178.19 |
| 37.00 | 940 | 0.19 | 0.01 | 51.48 | 1.46 | 0.00 | 0.00 | 11.67 | 0.33 | 63.341 | 1.79 | 2148 | 60.81 | 5180.30 | 5178.16 |
| 36.00 | 914 | 0.23 | 0.01 | 51.48 | 1.46 | 0.00 | 0.00 | 11.66 | 0.33 | 63.369 | 1.79 | 2084 | 59.02 | 5180.22 | 5178.13 |
| 35.00 | 889 | 0.23 | 0.01 | 52.80 | 1.50 | 0.00 | 0.00 | 11.26 | 0.32 | 64.293 | 1.82 | 2021 | 57.23 | 5180.14 | 5178.11 |
| 34.00 | 864 | 0.19 | 0.01 | 52.80 | 1.50 | 0.00 | 0.00 | 11.27 | 0.32 | 64.265 | 1.82 | 1957 | 55.40 | 5180.05 | 5178.08 |
| 33.00 | 838 | 0.23 | 0.01 | 54.12 | 1.53 | 0.00 | 0.00 | 10.86 | 0.31 | 65.217 | 1.85 | 1892 | 53.59 | 5179.97 | 5178.06 |
| 32.00 | 813 | 0.23 | 0.01 | 54.12 | 1.53 | 0.00 | 0.00 | 10.86 | 0.31 | 65.217 | 1.85 | 1827 | 51.74 | 5179.89 | 5178.03 |
| 31.00 | 787 | 0.27 | 0.01 | 54.12 | 1.53 | 0.00 | 0.00 | 10.85 | 0.31 | 65.244 | 1.85 | 1762 | 49.89 | 5179.80 | 5178.01 |
| 30.00 | 762 | 0.23 | 0.01 | 55.44 | 1.57 | 0.00 | 0.00 | 10.47 | 0.30 | 66.141 | 1.87 | 1697 | 48.04 | 5179.72 | 5177.98 |
| 29.00 | 737 | 0.23 | 0.01 | 55.44 | 1.57 | 0.00 | 0.00 | 10.47 | 0.30 | 66.141 | 1.87 | 1631 | 46.17 | 5179.64 | 5177.96 |
| 28.00 | 711 | 0.23 | 0.01 | 55.44 | 1.57 | 0.00 | 0.00 | 10.47 | 0.30 | 66.141 | 1.87 | 1564 | 44.30 | 5179.55 | 5177.93 |
| 27.00 | 686 | 0.23 | 0.01 | 56.76 | 1.61 | 0.00 | 0.00 | 10.07 | 0.29 | 67.065 | 1.90 | 1498 | 42.43 | 5179.47 | 5177.91 |
| 26.00 | 660 | 0.23 | 0.01 | 56.76 | 1.61 | 0.00 | 0.00 | 10.07 | 0.29 | 67.065 | 1.90 | 1431 | 40.53 | 5179.39 | 5177.88 |
| 25.00 | 635 | 0.27 | 0.01 | 58.08 | 1.64 | 0.00 | 0.00 | 9.66 | 0.27 | 68.016 | 1.93 | 1364 | 38.63 | 5179.30 | 5177.86 |
| 24.00 | 610 | 0.23 | 0.01 | 58.08 | 1.64 | 0.00 | 0.00 | 9.68 | 0.27 | 67.989 | 1.93 | 1296 | 36.70 | 5179.22 | 5177.83 |
| 23.00 | 584 | 0.23 | 0.01 | 59.40 | 1.68 | 0.00 | 0.00 | 9.28 | 0.26 | 68.913 | 1.95 | 1228 | 34.78 | 5179.14 | 5177.80 |
| 22.00 | 559 | 0.23 | 0.01 | 59.40 | 1.68 | 0.00 | 0.00 | 9.28 | 0.26 | 68.913 | 1.95 | 1159 | 32.82 | 5179.05 | 5177.78 |
| 21.00 | 533 | 0.27 | 0.01 | 59.40 | 1.68 | 0.00 | 0.00 | 9.27 | 0.26 | 68.940 | 1.95 | 1090 | 30.87 | 5178.97 | 5177.75 |
| 20.00 | 508 | 0.23 | 0.01 | 59.40 | 1.68 | 0.00 | 0.00 | 9.28 | 0.26 | 68.913 | 1.95 | 1021 | 28.92 | 5178.89 | 5177.73 |
| 19.00 | 483 | 0.27 | 0.01 | 60.72 | 1.72 | 0.00 | 0.00 | 8.87 | 0.25 | 69.864 | 1.98 | 952 | 26.97 | 5178.80 | 5177.70 |
| 18.00 | 457 | 0.27 | 0.01 | 60.72 | 1.72 | 0.00 | 0.00 | 8.87 | 0.25 | 69.864 | 1.98 | 883 | 24.99 | 5178.72 | 5177.68 |
| 17.00 | 432 | 0.27 | 0.01 | 60.72 | 1.72 | 0.00 | 0.00 | 8.87 | 0.25 | 69.864 | 1.98 | 813 | 23.01 | 5178.64 | 5177.65 |
| 16.00 | 406 | 0.27 | 0.01 | 60.72 | 1.72 | 0.00 | 0.00 | 8.87 | 0.25 | 69.864 | 1.98 | 743 | 21.03 | 5178.55 | 5177.63 |
| 15.00 | 381 | 0.23 | 0.01 | 62.04 | 1.76 | 0.00 | 0.00 | 8.49 | 0.24 | 70.761 | 2.00 | 673 | 19.06 | 5178.47 | 5177.60 |
| 14.00 | 356 | 0.27 | 0.01 | 62.04 | 1.76 | 0.00 | 0.00 | 8.48 | 0.24 | 70.788 | 2.00 | 602 | 17.05 | 5178.39 | 5177.58 |
| 13.00 | 330 | 0.27 | 0.01 | 63.36 | 1.79 | 0.00 | 0.00 | 8.08 | 0.23 | 71.712 | 2.03 | 531 | 15.05 | 5178.30 | 5177.55 |
| 12.00 | 305 | 0.31 | 0.01 | 63.36 | 1.79 | 0.00 | 0.00 | 8.07 | 0.23 | 71.739 | 2.03 | 460 | 13.02 | 5178.22 | 5177.52 |
| 11.00 | 279 | 0.27 | 0.01 | 63.36 | 1.79 | 0.00 | 0.00 | 8.08 | 0.23 | 71.712 | 2.03 | 388 | 10.99 | 5178.14 | 5177.50 |
| 10.00 | 254 | 0.31 | 0.01 | 63.36 | 1.79 | 0.00 | 0.00 | 8.07 | 0.23 | 71.739 | 2.03 | 316 | 8.96 | 5178.05 | 5177.47 |
| 9.00 | 229 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 245 | 6.92 | 5177.97 | 5177.45 |
| 8.00 | 203 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 217 | 6.15 | 5177.89 | 5177.42 |
| 7.00 | 178 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 190 | 5.39 | 5177.80 | 5177.40 |
| 6.00 | 152 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 163 | 4.62 | 5177.72 | 5177.37 |
| 5.00 | 127 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 136 | 3.85 | 5177.64 | 5177.35 |
| 4.00 | 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 109 | 3.08 | 5177.55 | 5177.32 |
| 3.00 | 76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 82 | 2.31 | 5177.47 | 5177.30 |
| 2.00 | 51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 54 | 1.54 | 5177.39 | 5177.27 |
| 1.00 | 25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.17 | 0.77 | 27.170 | 0.77 | 27 | 0.77 | 5177.30 | 5177.25 |
| 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | 0 | 0.00 | 5177.22 | 5177.22 |
| -1.00 | | | | | | | | | | | | | | | |
| -2.00 | | | | | | | | | | | | | | | |
| -3.00 | | | | | | | | | | | | | | | |
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| -14.00 | | | | | | | | | | | | | | | |
| -15.00 | | | | | | | | | | | | | | | |
| -16.00</ | | | | | | | | | | | | | | | |

6" IE (E/W)=±5175.75
15" IE IN (S)=5177.50

STM STR 9
RIM=5185.81
2" IE IN (SW)=5180.49
5" IE OUT (E)=5180.39

D.2 ±29 LF
@ 8.00%

STM STR 8
RIM=5185.50
15" IE IN (SE)=5179.93
15" IE OUT (N)=5179.83

STORMWATER QUALITY
REQ'D VOLUME: 2058 CF
PROVIDED VOLUME: 209 CF
ELEVATION: 5180.39

D.1 ±5 LF
@ 8.45%

I.3 IE=5180.39

D.1 ±12 LF
@ 0.55%

J IE=5180.39

D ±47 LF
@ 0.50%

G IE=5183.98

J IE=5180.97

H.1 ±35 LF
@ 1.50%

H.1 ±22 LF
@ 11.36%

G IE=5183.47

G IE=5183.69

±29
@ 0.50%


MONTGOME

| | |
|---------------------------|------------|
| CULTEC STORMWATER CHAMBER | |
| PROJECT NO: | 21-5786.03 |
| DATE: | 1/13/2022 |
| DESIGNED BY: | GCH |
| CHECKED BY: | AES |
| SCALE: | N.T.S. |
| SHEET NO: | 4 OF 5 |

RAISING CANES 0852
4800 MONTGOMERY BLVD. NE
ALBUQUERQUE, NM

SYSTEM OVERLAY SHEET

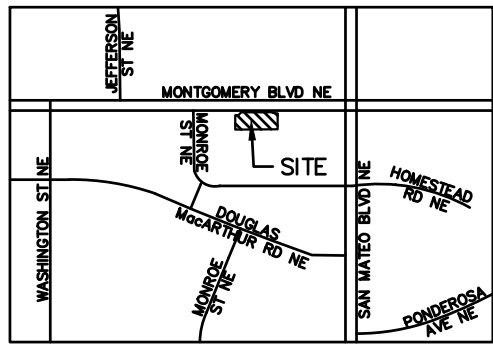
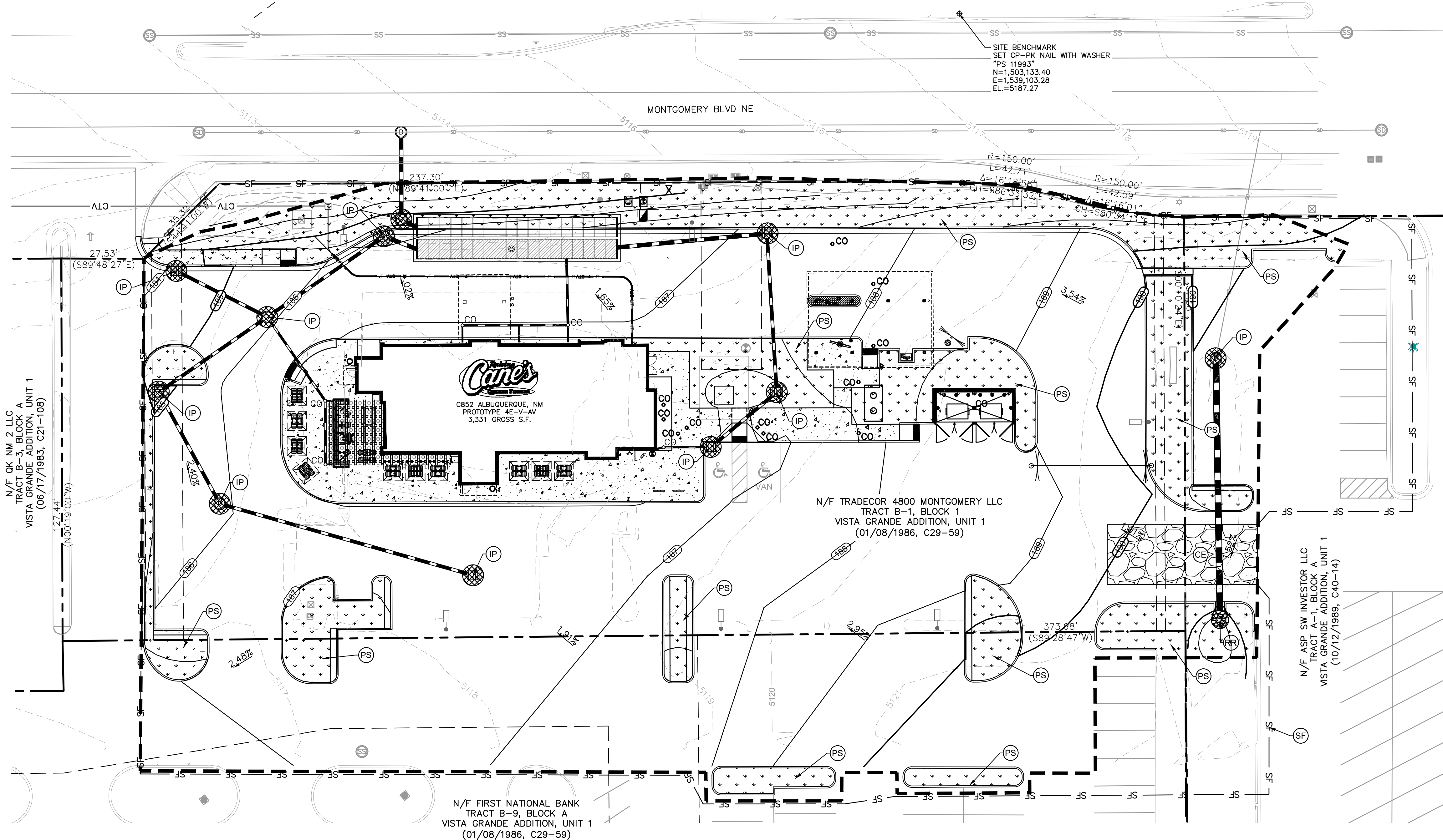
CULTEC, Inc.
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com
PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com


CULTEC

THIS DRAWING WAS PREPARED TO SUPPORT THE DESIGN ENGINEER FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH THE DESIGN ENGINEER'S RESPONSIBILITY FOR ALL DESIGN DECISIONS.



EROSION CONTROL PLAN



VICINITY MAP
(NOT TO SCALE)



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED LIMITS OF LAND-DISTURBING ACTIVITIES
- DIRECTION OF OVERLAND FLOW W/ GRADE
- SILT FENCE, TYPE I - SEE DETAIL SHEET C3.1
- CONSTRUCTION EXIT/ OFFSITE TRACKING PREVENTION
- PERMANENT STABILIZATION
- RIP RAP WITH FILTER FABRIC
- INLET SEDIMENT CONTROL DEVICE

EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING PHASING SCHEDULE. REFERENCE THE SWPPP BOOK AND NMD GENERAL PERMIT FOR DETAILED REQUIREMENTS.

PHASE 1 - DEMOLITION

- INSTALL PERIMETER BMP'S INCLUDING THE CONSTRUCTION ENTRANCE/EXIT, SWPPP SIGNAGE, SILT FENCE, AND ALL OTHER NECESSARY BMP'S ACCORDING TO THE LOCATION SHOWN ON THE EROSION CONTROL PLAN. CLEAR ONLY THE MINIMUM AREA REQUIRED TO INSTALL BMP'S.
- SET THE PROJECT OFFICE TRAILER AND PREPARE TEMPORARY PARKING AND STORAGE AREAS.
- DENOTE DATES OF BMP INSTALLATION AND MAINTENANCE ON SITE-MAPS.
- BEGIN DEMOLITION AND CLEARING OF THE SITE.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WHENEVER CLEARING, GRADING, OR EARTH DISTURBING ACTIVITIES HAVE CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED AND WILL NOT RESUME WITHIN 14 DAYS PER GENERAL PERMIT REQUIREMENTS.

PHASE 2 - GRADING

- ENSURE APPROPRIATE BMP'S ARE IN PLACE DOWNSTREAM OF SITE WORK OR WHERE RUNOFF MAY EXIT THE SITE.
- BEGIN GRADING THE SITE.
- SEED AND RE-VEGETATE SLOPES AS AREAS ARE BROUGHT TO GRADE OR STOCKPILES THAT WILL REMAIN INACTIVE FOR 14 DAYS PER GENERAL PERMIT REQUIREMENTS.

PHASE 3 - UTILITIES

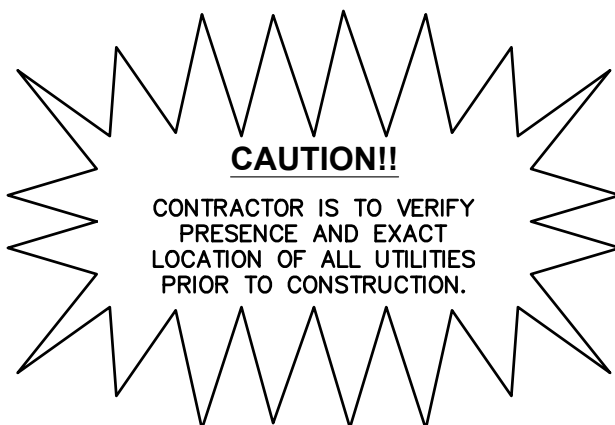
- KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
- INSTALL UTILITIES, STORM DRAINS, CURB AND GUTTERS.
- INSTALL INLET PROTECTION AS SPECIFIED ON PLAN SHEETS AS STORM STRUCTURES ARE INSTALLED.
- TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION, ANY DISTURBED AREAS THAT ARE LIKELY TO REMAIN INACTIVE FOR 14 DAYS.

PHASE 4 - PAVING

- KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
- STABILIZE SUBGRADE.
- PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.

PHASE 5 - LANDSCAPING AND DEVELOPMENT

- INSTALL LANDSCAPING PER THE LANDSCAPE PLANS AND DETAILS.
- REMOVE EROSION CONTROL DEVICES WHEN FINAL STABILIZATION IS ACHIEVED PER THE TPDES GENERAL PERMIT.
- STABILIZE ANY AREAS DISTURBED BY REMOVAL OF BMP'S.



GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING IMPROVEMENTS SHOWN ON THE PLAN.
- CONTRACTOR TO PROTECT IN PLACE, DURING DEMOLITION AND CONSTRUCTION, ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN AS NOTED ON THE PLAN.
- ANY EXISTING STRUCTURE, IMPROVEMENT OR APPURTENANCE TO REMAIN THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION AND PROTECT IN PLACE UNLESS NOTES ON THE PLANS.
- THE CONTRACTOR SHALL EXERCISE CAUTION TECHNIQUES TO PROTECT AND PRESERVE EXISTING PERMANENT SURVEY MONUMENTS. ALL SURVEY MONUMENTS DISTURBED (PROPOSED AND EXISTING) SHALL BE REPLACED AND/OR REHABILITATED IN ACCORDANCE WITH STANDARDS BY A PROFESSIONAL LAND SURVEYOR RETAINED BY THE CONTRACTOR.

SITE DATA

| | |
|--------------------------|---------------------|
| LOT AREA | 55,027 SF ± 1.26 AC |
| TOTAL DISTURBED AREA | 69,241 SF ± 1.59 AC |
| • DISTURBED AREA ONSITE | 50,168 SF ± 1.15 AC |
| • DISTURBED AREA OFFSITE | 19,073 SF ± 0.44 AC |

CITY OF ALBUQUERQUE EROSION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL (ESC) WORK ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON SHALL BE PERMITTED, CONSTRUCTED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH:
 - THE CITY ORDINANCE § 14-5-2.11, THE ESC ORDINANCE.
 - THE EPA'S 2017 CONSTRUCTION GENERAL PERMIT (CGP) AND
 - THE CITY OF ALBUQUERQUE CONSTRUCTION BMP MANUAL.
- ALL BMP'S MUST BE INSTALLED PRIOR TO BEGINNING ANY EARTH MOVING ACTIVITIES EXCEPT AS SPECIFIED HEREON IN THE PHASING PLAN. CONSTRUCTION OF EARTHEN BMP'S SUCH AS SEDIMENT TRAPS, SEDIMENT BASINS, AND DIVERSION BERMS SHALL BE COMPLETED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION OR EARTHWORK. SELF-INSPECTION IS REQUIRED AFTER INSTALLATION OF THE BMP'S AND PRIOR TO BEGINNING CONSTRUCTION.
- SELF-INSPECTIONS - AT A MINIMUM A ROUTINE COMPLIANCE SELF-INSPECTION IS REQUIRED TO REVIEW THE PROJECT FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT ONCE EVERY 14 DAYS AND AFTER ANY PRECIPITATION EVENT OF 1/4 INCH OR GREATER UNTIL THE SITE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE DETERMINED AS STABILIZED BY THE CITY. REPORTS OF THESE INSPECTIONS SHALL BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
- CORRECTIVE ACTION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
- STABILIZATION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST. REPORTS SHOULD INCLUDE RECORDS OF WEED REMOVAL PER CITY ORDINANCE (§ 9-8-1), STERILIZATION, SOIL TEST RESULTS AND RECOMMENDATION, MATERIALS AND MANUFACTURER'S SPECIFICATIONS FOR APPLICATION RATES, ESTIMATED FUNCTIONAL LONGEVITY, METHODS OF APPLICATION, INSPECTION AND MAINTENANCE. THE REDUCED SELF-INSPECTION SCHEDULE IN CGP 4.4.1 APPLIES TO STABILIZED AREA AND ANY DAMAGED OR WORN STABILIZATION MUST BE IDENTIFIED IN THE REPORTS ALONG WITH WEED PROBLEMS. CORRECTIVE ACTIONS FOR STABILIZATION SHALL BE DOCUMENTED IN A STABILIZATION REPORT INCLUDING ACTUAL RATES AND DATES OF STABILIZATION, AND THE MATERIALS AND MANUFACTURER'S SPECIFICATIONS USED.
- BMP'S SHALL BE INSPECTED AND MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH THE FINAL STABILIZATION CRITERIA (GCP 2.2.14.B). GENERALLY, ALL DISTURBED AREAS, OTHER THAN STRUCTURES AND IMPERVIOUS SURFACES, MUST HAVE UNIFORM PERENNIAL VEGETATION THAT PROVIDES 70 PERCENT OR MORE OF THE COVER PROVIDED BY NATIVE VEGETATION OR SEED THE DISTURBED AREA AND PROVIDE NON-VEGETATIVE MULCH THAT PROVIDES COVER FOR AT LEAST THREE YEARS WITHOUT ACTIVE MAINTENANCE. FINAL STABILIZATION MUST BE APPROVED BY THE CITY OF ALBUQUERQUE PRIOR TO REMOVAL OF BMP'S AND DISCONTINUATION OF INSPECTIONS.



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-762-3100 Fax: 972-762-3101

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

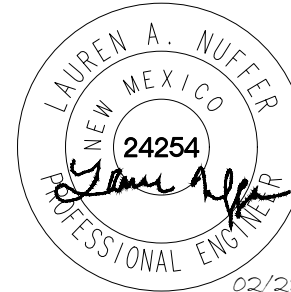
Engineer's Information:

Kimley»Horn

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AND ASSOCIATES, INC.

13455 Noel Road
Suite 700
Dallas, TX 75240
CONTACT: LAUREN NUFFER, P.E.
(972) 770-1300
LAUREN.NUFFER@KIMLEY-HORN.COM
LIZ WILLMOT, P.E.
LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 1 | 11/12/2021 | 80% REVIEW SET |
| 2 | 11/30/2021 | 1ST BLDG SUBMITTAL |
| 3 | 12/20/2021 | 1ST BLDG RESUBMITTAL |
| 4 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |

Sheet Title:

EROSION CONTROL PLAN

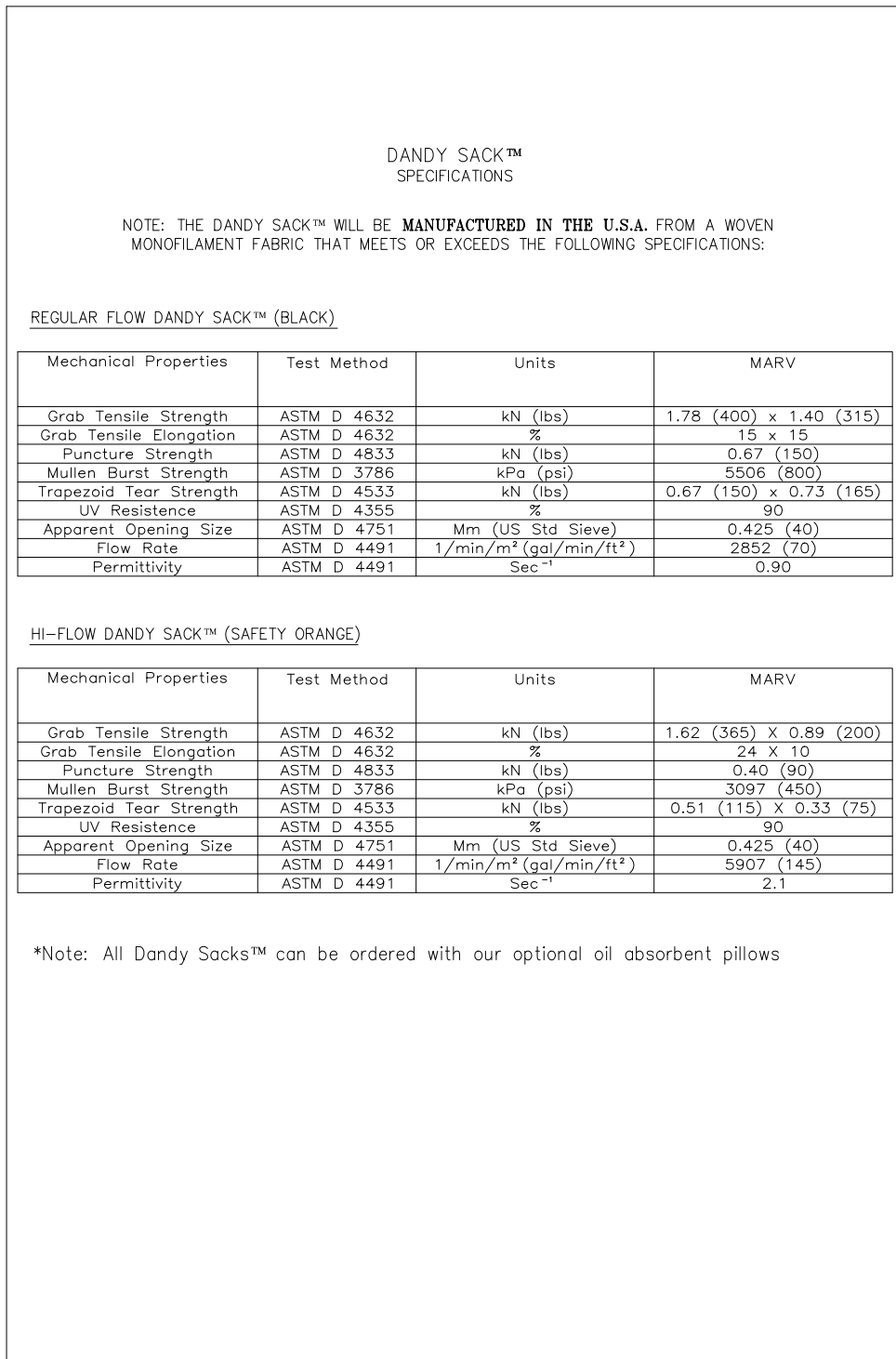
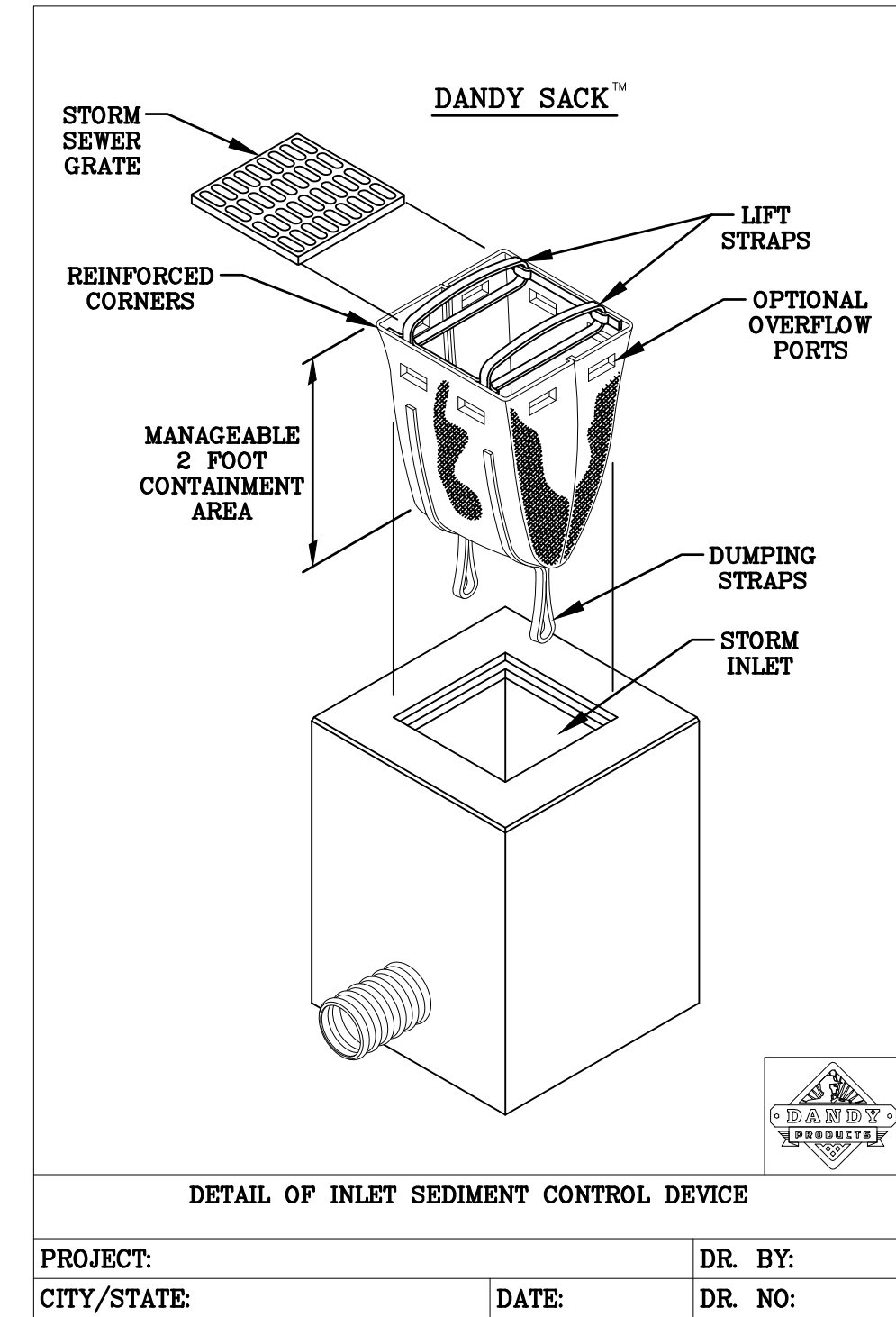
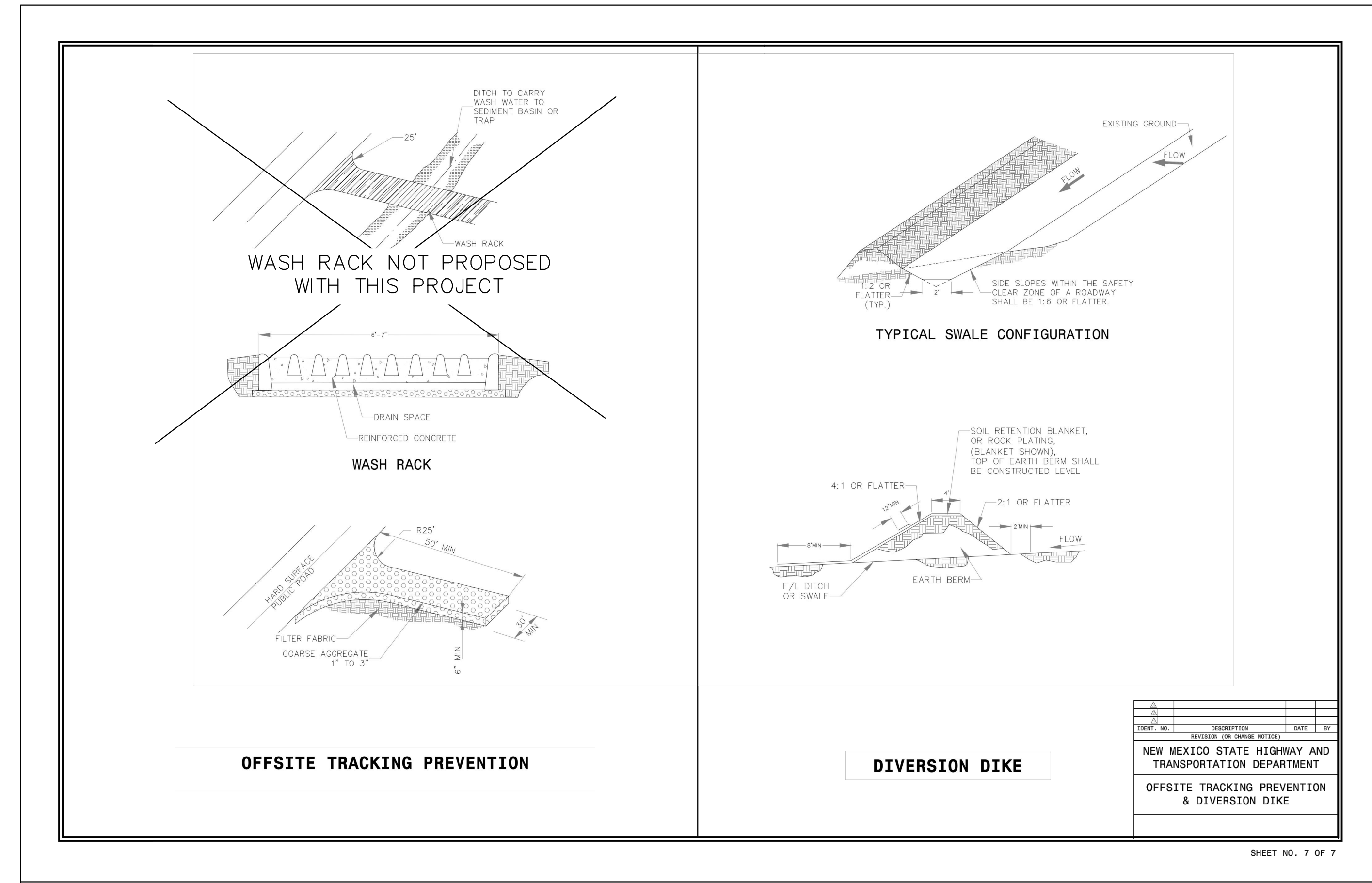
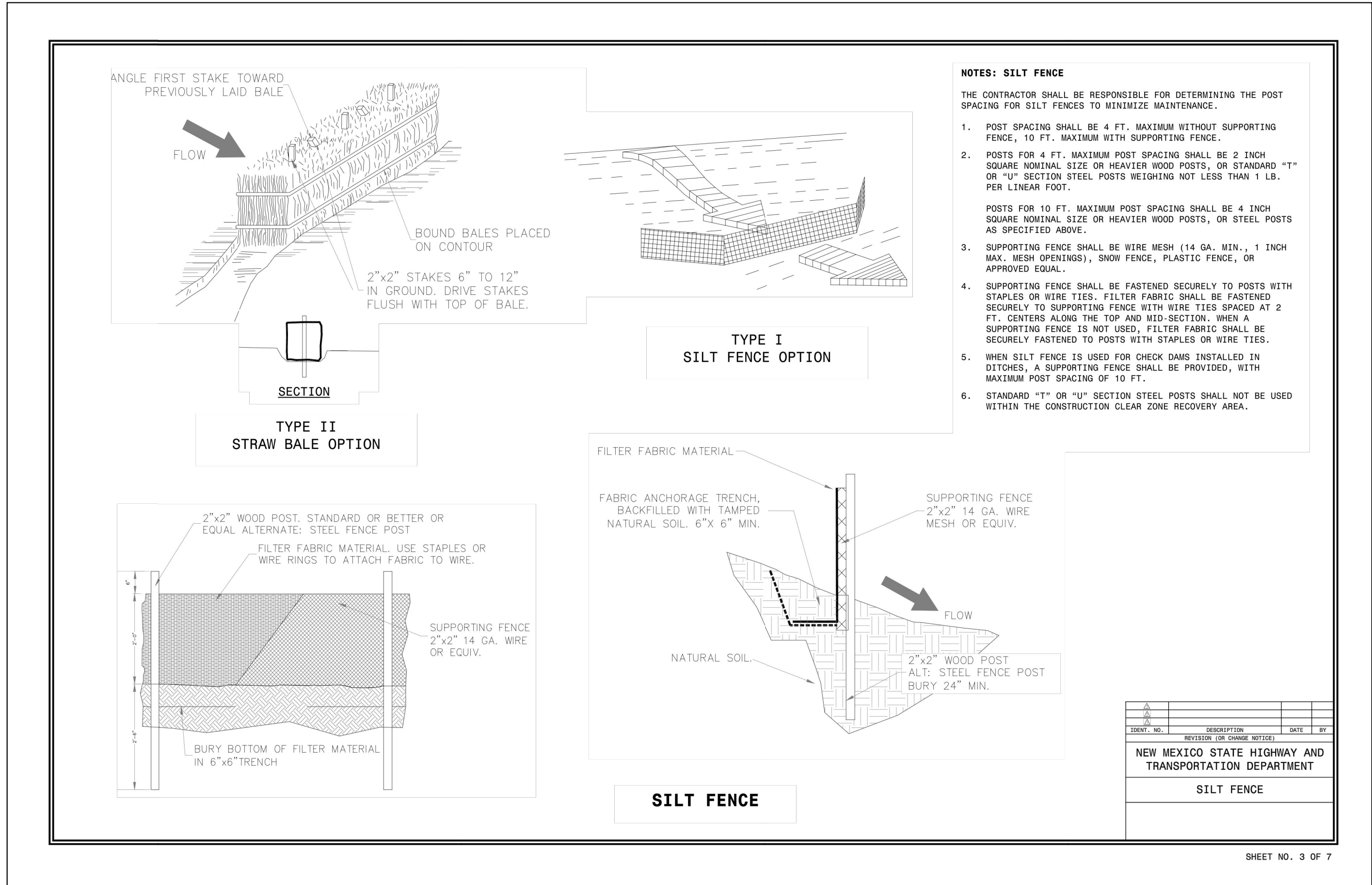
Date: 02.28.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C3.0



NOTE: CITY OF ALBUQUERQUE DETAILS TAKE PRECEDENCE IN CITY R.O.W. AND EASEMENTS



Store: Montgomery & San Mateo ALBUQUERQUE, NM 87112 Restaurant #RC852 P4E-V-AV SCHEME A

Engineer's Information: Kimley»Horn © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 13455 Noel Road Two Galleria Office Tower Suite 700 Dallas, TX 75240 CONTACT: LAUREN NUFFER, P.E. (972) 770-1300 LAUREN.NUFFER@KIMLEY-HORN.COM LIZ.WILLMOT, P.E. LIZ.WILLMOT@KIMLEY-HORN.COM Professional of Record:



| | |
|--------------------------|----------------------------|
| Prototype : | P4E-V-AV 2021- 2.0 RELEASE |
| Prototype Issue Date: | 10.04.2021 |
| Kitchen Issue Date: | 08.02.2021 |
| Design Bulletin Updates: | -- |
| Date Issued: | Bulletin Number: |
| -- | -- |

2ND BLDG. RESUBMITTAL

| REVISIONS: | | |
|------------|------------|----------------------|
| | 11/12/2021 | 80% REVIEW SET |
| | 11/30/2021 | 1ST BLDG SUBMITTAL |
| 1 | 12/20/2021 | 1ST BLDG RESUBMITTAL |
| 2 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
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Sheet Title: EROSION CONTROL DETAILS Date: 02.28.2022 Project Number: 090042000 Drawn By: LW/LN Sheet Number:

C3.1

CIVIL CONSTRUCTION PLANS FOR



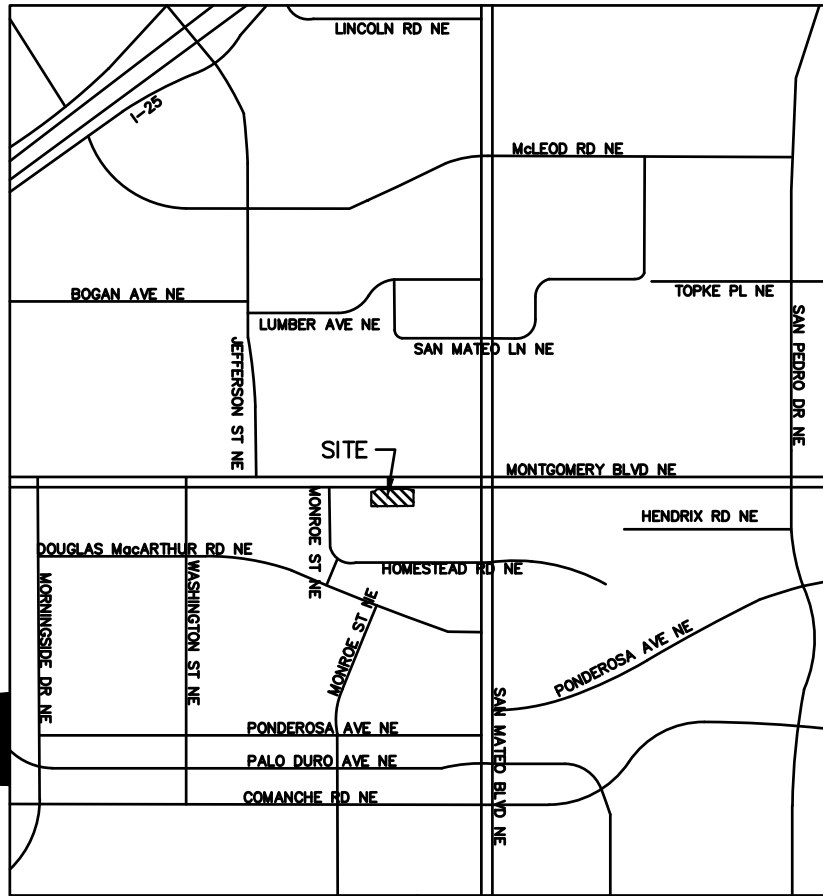
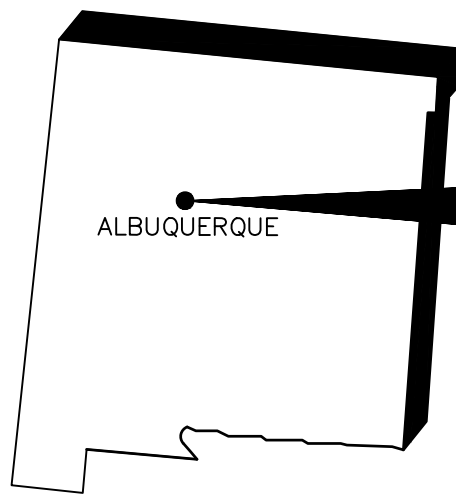
RESTAURANT # C0852
4800 MONTGOMERY BLVD NE
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO 87109

GOVERNMENT/UTILITY CONTACTS

| | |
|----------------------|---|
| FIRE DEPARTMENT | ALBUQUERQUE FIRE RESCUE STATION 13 4901 PROSPECT AVE. NE ALBUQUERQUE, NM 87110 (505) 888-8178 |
| UTILITIES DEPARTMENT | ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY 1441 MISSION AVE. NE ALBUQUERQUE, NM 87113 (505) 842-9287 |
| STORM DEPARTMENT | CITY OF ALBUQUERQUE 2400 BROADWAY BLVD. SE ALBUQUERQUE, NM 87102 (505) 768-3830 |
| INSPECTIONS | CITY OF ALBUQUERQUE 2400 BROADWAY BLVD. SE ALBUQUERQUE, NM 87102 (505) 768-3830 |
| ENVIRONMENTAL AGENCY | CITY OF ALBUQUERQUE 2400 BROADWAY BLVD. SE ALBUQUERQUE, NM 87102 (505) 768-3830 |
| ELECTRIC COMPANY | PUBLIC SERVICE COMPANY OF NEW MEXICO 414 SILVER AVE. SW ALBUQUERQUE, NM 87158 (888) 245-3659 |
| GAS COMPANY | NEW MEXICO GAS COMPANY 4625 EDITH BLVD. NE ALBUQUERQUE, NM 87107 (505) 697-3335 |
| TELEPHONE COMPANY | CLOUD BASED PHONE SYSTEM ALBUQUERQUE 4300 SAN MATEO BLVD. NE #983 ALBUQUERQUE, NM 87110 (505) 412-4800 |
| INTERNET COMPANY | LOBO INTERNET SERVICES, LTD. 2419 SAN PEDRO DR. NE ALBUQUERQUE, NM 87110 (505) 830-1012 |

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



SITE LOCATION MAP

(NOT TO SCALE)

NOTES:

1. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A 24" X 36" SHEET.

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
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| 1 OF 2 | ALTA SURVEY |
| 2 OF 2 | ALTA SURVEY |
| C2.0 | GENERAL NOTES |
| C2.1 | GENERAL AND CITY NOTES |
| C3.0 | EROSION CONTROL PLAN |
| C3.1 | EROSION CONTROL DETAILS |
| C4.0 | DEMOLITION PLAN |
| C5.0 | SITE KEYNOTE PLAN |
| C5.1 | DIMENSION CONTROL PLAN |
| C5.2 | STRIPING AND SIGNAGE PLAN |
| C6.0 | GRADING PLAN |
| C7.0 | STORM DRAINAGE PLAN |
| C8.0 | UTILITY PLAN |
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| C10.0 | CITY CONSTRUCTION DETAILS |
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| C11.2 | CULTEC SHEET 3 OF 5 |
| C11.3 | CULTEC SHEET 4 OF 5 |
| C11.4 | CULTEC SHEET 5 OF 5 |

PLANS SUBMITTAL/REVIEW LOG

| NO. | DESCRIPTION | DATE | MILESTONE |
|-----|----------------------|------------|----------------------|
| | 80% REVIEW SET | 11/12/2021 | NOT FOR CONSTRUCTION |
| | 1ST BLDG SUBMITTAL | 11/30/2021 | NOT FOR CONSTRUCTION |
| 1 | 1ST BLDG RESUBMITTAL | 12/20/2021 | NOT FOR CONSTRUCTION |
| 2 | 2ND BLDG RESUBMITTAL | 01/17/2022 | NOT FOR CONSTRUCTION |

ENGINEER
Kimley»Horn

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OWNER/DEVELOPER



RAISING CANES RESTAURANT, LLC
6800 BISHOP ROAD
PLANO, TX 75024
PH (469) 644-3198
CONTACT: LUARON FOSTER
LFOSTER@RAISINGCANES.COM

ARCHITECT



Architectural
Solutions Group
1101 CENTRAL EXPRESSWAY SOUTH
SUITE 100
ALLEN, TEXAS 75013
PH (469) 619-1164
CONTACT: EVERETT FIELDS
EFIELDS@PMDGINC.COM

FEBRUARY 2022



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Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-789-3100 Fax: 972-769-3101

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

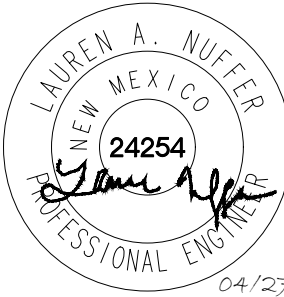
Engineer's Information:

Kimley»Horn

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LAUREN.NUFFER@KIMLEY-HORN.COM
LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

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|---|------------|----------------------|
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Sheet Title:

COVER SHEET

Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C1.0

KIMLEY HORN GENERAL NOTES:

1. 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 IMMEDIATELY.
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 ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
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 PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.
14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.
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 THAT 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 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 THESE PLANS.
17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND 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 PRESERVE ALL 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. 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.
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 CONSTRUCTION.
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 SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.
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 ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR.
29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.
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 THE 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 BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES 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

KIMLEY HORN GENERAL NOTES (CONTINUED):

1. BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC.....) AND TO CONFIRM ITS FINAL POSITION ON THE SITE 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 AGENCY.
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 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 BE 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 NO COST TO THE OWNER.
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.
40. ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
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 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 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.
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 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 THE CITY AND THE REQUIRED CONTRACTOR SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.
52. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH 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 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 THE PLANS.
56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.
57. ALL UTILITIES (PLUMBING, GAS, SEWER, WATER, ELECTRICITY, TELEPHONE AND OTHER CABLES) MAKING EXCAVATIONS AS DEFINED BY CHAPTER 6, ARTICLE 5 SECTION 6-5-2-2 OF THE 2005 STREET, EXCAVATION AND BARRICADE ORDINANCE ARE REQUIRED TO COMPLY WITH ALL PROVISIONS THEREOF.

KIMLEY HORN GENERAL EROSION CONTROL NOTES:

1. 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 AND LAND DISTURBANCE.
2. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.
3. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT.
4. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPs), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
5. 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.
6. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS.
7. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.
8. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING.
9. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND REPAIRS 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 NOTIFY THE ENGINEER.
10. 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 BMPs TO CONTROL DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPs FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN.

KIMLEY HORN GENERAL EROSION CONTROL NOTES (CONTINUED):

11. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCRINCING THE AREA WITH AN APPROPRIATE BARRIER.
12. 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.
13. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS.
14. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY.
15. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS.
16. 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.
17. 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.
18. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.
19. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
20. TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE.
21. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.
22. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERENNIAL VEGETATIVE COVER.
23. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

KIMLEY HORN GENERAL STORM WATER DISCHARGE AUTHORIZATION NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE NMED GENERAL PERMIT TO DISCHARGE UNDER THE NEW MEXICO POLLUTANT DISCHARGE ELIMINATION SYSTEM.
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.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).
5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN AND PROVIDE THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.
6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.
7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL 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 THIS NOI SHALL BE PROVIDED TO THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE.

KIMLEY HORN GENERAL DEMOLITION NOTES:

1. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED 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 ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES.
3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN:
 - a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER,
 - 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.
5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO STARTING ANY WORK ON THE SITE.
6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED.
8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT, FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

KIMLEY HORN GENERAL GRADING AND DRAINAGE NOTES:

1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. 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 ELEVATION.
4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE.
5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.
7. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE PAVEMENT SECTION.
8. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER.
9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING 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 CONTRACTOR AT NO ADDITIONAL EXPENSE.
11. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND 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 THE RECEIVING LANDOWNERS APPROVAL TO DO SO.
14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL.
15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING 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 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 ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
20. CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING.
21. ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
22. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, MOVEMENT, AND PREPARATION IN THE BUILDING PAD.
24. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
25. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION.
26. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER.
27. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE. INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL REFER TO THE GENERAL NOTES "OVERALL" SECTION THESE PLANS FOR ADDITIONAL INFORMATION.
28. EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.
29. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH THE TREE PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE WORK.
30. TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD TREE PROTECTION DETAILS AND THE APPROVED TREE PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT.
31. CONTRACTOR SHALL REFER TO THE LANDSCAPING AND TREE PRESERVATIONS PLANS FOR ALL INFORMATION AND DETAILS REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED.
32. NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE CITY, OR CITY HAS OTHERWISE CONFIRMED IN WRITING THAT ONE IS NOT NEEDED FOR THE TREE(S).
33. NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE AND GRADING IMPACT TO THEM HELD TO A MINIMUM.
34. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE. IF PONDING OR INADEQUATE SLOPE IS OBSERVED, THE CONTRACTOR SHALL REPAIR AND REGRADE 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.



Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
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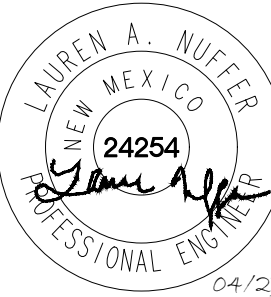
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| Prototype : P4E-V-AV 2021-2.0 RELEASE | |
| Prototype Issue Date: | 10.04.2021 |
| Kitchen Issue Date: | 08.02.2021 |
| Design Bulletin Updates: -- | |
| Date Issued: | Bulletin Number: |
| -- | -- |

2ND BLDG. RESUBMITTAL

| REVISIONS: | | |
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| | 11/12/2021 | 80% REVIEW SET |
| | 11/30/2021 | 1ST BLDG SUBMITTAL |
| | 12/20/2021 | 1ST BLDG RESUBMITTAL |
| 2 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
| 3 | | |
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Sheet Title:

GENERAL NOTES

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| Date: | 04.27.2022 |
| Project Number: | 090042000 |
| Drawn By: | LW/LN |

Sheet Number:



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KIMLEY HORN GENERAL PAVING NOTES:

1. 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.
2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING ALL ADDENDA.
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.
4. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
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.
7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD 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 EDITION.
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.
12. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.
13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING 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.
14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT.
15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT.
16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, 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.
20. ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT.
21. FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS.
22. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED.
23. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.
24. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, 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 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.

KIMLEY HORN GENERAL STORM DRAINAGE NOTES:

1. 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 OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.
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.
7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD 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 EDITION.
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.
12. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.

KIMLEY HORN GENERAL STORM DRAINAGE NOTES (CONTINUED):

13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING 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.
14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT.
15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT.
16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, 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.
20. ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT.
21. FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS.
22. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED.
23. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.
24. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, 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 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.
26. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION.
27. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
28. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
29. 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.
30. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER SHALL BE CLASS III RCP OR OTHER APPROVED MATERIAL.
31. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED.
32. IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT.
33. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES.
34. EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
35. ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
36. USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET.
37. 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.
38. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

KIMLEY HORN GENERAL WATER AND WASTEWATER NOTES:

1. ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
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.
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 THE WATER AND WASTEWATER IMPROVEMENTS.
6. ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS 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 APPLICABLE CODES AND INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES.
9. EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
10. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, TCEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS.
11. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND WASTEWATER LINES.
12. ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.
13. CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT. 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.

KIMLEY HORN GENERAL WATER AND WASTEWATER NOTES (CONTINUED):

17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED PAVEMENT.
18. ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
19. FIRE HYDRANTS, VALVES, TEES, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR THRUST BLOCKED TO CITY STANDARDS.
20. TRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE JOINTS ARE GREATER THAN 9-FEET FROM THE CROSSING.
21. CROSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET FROM WATER, WASTEWATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 217.53.
22. CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 290.44.
23. 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:
 - a. ALL WATERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO SERVICE. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS.
 - 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. MARKER DECALS SHALL BE LABELED "CAUTION - WATER LINE", OR "CAUTION - SEWER LINE". DETECTABLE WIRING AND MARKING TAPE SHALL COMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THE WATER AND WASTEWATER PIPE.
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 HAVE CAST IRON COVERS FLUSH WITH FINISHED GRADE.
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.
30. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

LEGEND

| | | |
|-----|---------|--------------------------------|
| --- | --- | PROPERTY LINE |
| --- | --- | RIGHT OF WAY LINE |
| --- | --- | STREET CENTERLINE |
| --- | --- | EXISTING EASEMENT |
| --- | W | EXISTING WATER MAIN |
| --- | S | EXISTING SEWER MAIN |
| --- | E | EXISTING ELECTRICAL LINE |
| --- | OH | EXISTING OVERHEAD POWER |
| --- | G | EXISTING GAS LINE |
| --- | --- | EXISTING STORM DRAIN |
| --- | --- | EXISTING CURB |
| --- | --- | PROPOSED EASEMENT |
| --- | W | PROPOSED WATER MAIN |
| --- | SS | PROPOSED SEWER MAIN |
| --- | F | PROPOSED FIRE LINE |
| --- | E | PROPOSED ELECTRICAL LINE |
| --- | G | PROPOSED GAS LINE |
| --- | --- | PROPOSED STORM DRAIN |
| --- | --- | PROPOSED CONCRETE CURB |
| --- | SF | SILT FENCE |
| --- | --- | EXISTING SEWER MANHOLE |
| --- | --- | EXISTING FIRE HYDRANT |
| --- | --- | PROPOSED FDC |
| --- | --- | PROPOSED STORM INLET |
| --- | --- | PROPOSED PARKING COUNT |
| --- | --- | PROPOSED STORM DRAIN MANHOLE |
| --- | --- | ACCESSIBLE PARKING SYMBOL |
| --- | --- | EXISTING STREET LIGHT |
| --- | HP | PROPOSED HIGH POINT |
| --- | GB | PROPOSED GRADE BREAK |
| --- | --- | EXISTING CONTOUR |
| --- | 15 | PROPOSED CONTOUR |
| --- | 1.00% | PROPOSED FLOW ARROW WITH SLOPE |
| --- | x1/4.50 | PROPOSED SPOT ELEVATION |

GEOTECHNICAL NOTE:

1. REFERENCE FINAL GEOTECHNICAL REPORT BY TERRACON CONSULTANTS, INC. FOR ADDITIONAL REQUIREMENTS. ALL SITE WORK, PAVING, AND BUILDING PAD PREP IS TO COMPLY WITH GEOTECHNICAL RECOMMENDATIONS AND REQUIREMENTS.

GEOTECHNICAL REPORT REPORT NO. 66215166

TERRACON CONSULTANTS, INC.
ALBUQUERQUE, NM
OCTOBER 8, 2021

CITY OF ALBUQUERQUE NOTES

- A. CITY OF ALBUQUERQUE PUBLIC WORKS IS NOT PART OF 811. CONTRACTOR SHOULD CONTACT PUBLIC WORKS AT 505-924-3400, 24 HOURS BEFORE ANY CONSTRUCTION, BORING, OR UTILITY CONNECTION. PUBLIC WORK WILL MARK EXISTING UTILITIES BUT THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND FIELD VERIFYING ALL UTILITIES AND BE RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGES TO COB ASSETS OR UTILITIES CONFLICT.
- B. ALL APPLICATIONS MUST BE SUBMITTED AT LEAST 14 CALENDAR DAYS PRIOR TO YOUR ANTICIPATED START DATE.
- C. CONSTRUCTION SERVICES DIVISION CAN BE REACHED USING THE FOLLOWING CONTACT: (505) 924-3400
- D. PUBLIC UTILITY OWNERS (WATER, GAS, ELECTRIC, SEWER, COMMUNICATIONS) ARE ALLOWED TO RESOLVE EMERGENCIES WITHOUT AN APPROVED PERMIT, ONLY IF CONSTRUCTION COORDINATION IS NOTIFIED WITHIN 24 HOURS.
- E. A MUTUO-COMPLIANT TRAFFIC CONTROL SETUP IS REQUIRED FOR ALL ACTIVITIES, REGARDLESS OF IF SAID WORK IS SHORT-DURATION, EMERGENCY, OR SCHEDULED.
- F. ALL TRAFFIC CONTROL PLANS (TPCS) MUST BE DRAWN BY A TRAFFIC CONTROL SUPERVISOR, DESIGN SPECIALIST, OR PROFESSIONAL ENGINEER.
- G. ALL HIGH-SPEED ROADWAYS MUST HAVE A TRAFFIC CONTROL PLAN SUBMITTED WITH THE PLAN APPLICATION.
- H. LOW SPEED ROADS DO NOT REQUIRE A TRAFFIC CONTROL PLAN SUBMITTED.
- I. SIDEWALKS AND/OR MULTI-USE PATHS (BIKE TRAILS, ECT.) DO NOT REQUIRE A TRAFFIC CONTROL PLAN SUBMITTED IF SAID PATHS ARE THE SOLITARY RIGHT-OF-WAY BEING AFFECTED (NO ACCOMPANYING ROAD CLOSURES).
- J. IF ACTIVITY IS BEYOND THE PROPERTY LINE, THERE IS NO NEED TO OBTAIN A RIGHT-OF-WAY PERMIT. IT MAY BE REQUIRED TO APPLY WITH ANOTHER CITY DEPARTMENT (PLANNING)
- K. THE ROAD SHALL BE OPEN TO TRAFFIC AT ALL TIMES UNLESS A TRAFFIC CONTROL PLAN (TCP) IS SUBMITTED AND APPROVED FOR LANE CLOSURES. ACCESS TO ALL DRIVES AND SIDE ROADS, BOTH PUBLIC AND PRIVATE, ARE TO BE MAINTAINED AS MUCH AS POSSIBLE.
- L. CONTRACTOR SHALL CONTACT ENGINEERING DEPARTMENT AT 505-924-3400 FOR ENGINEERING INSPECTION A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION IN PUBLIC RIGHT-OF-WAY, DRIVEWAY APPROACH, SIDEWALK, DETENTION, AND UTILITY CONNECTION (WATER, SANITARY SEWER, AND STORM DRAINAGE).
- M. DRAINAGE FACILITIES ARE TO BE OWNED, OPERATED, AND MAINTAINED BY THE OWNERS AND NOT THE CITY OF BAYTOWN.
- N. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR/REPLACE ANY DAMAGES TO THE CITY OF BAYTOWN'S ASSETS OR UTILITIES CONFLICT.
- O. CONTRACTOR SHALL TAKE PROPER MEASURES TO SECURE ANY OPEN TRENCHES, BORE PITS, & EXCAVATION TO ENSURE PUBLIC SAFETY. DURING NON-WORKING HOURS ALL TRENCH SHALL BE BACKFILLED (NO TRENCH LEFT OPEN OVERNIGHT) OR COVER PROPERLY. ALL EXCESS EXCAVATION TO BE REMOVED FROM THE ROAD RIGHT-OF-WAY AT THE END OF EACH DAY.
- H. IF IT BECOMES NECESSARY FOR EQUIPMENT TO OPERATE ON A PORTION OF THE PAVEMENT, PRECAUTIONS MUST BE TAKEN TO PREVENT FROM ANY DAMAGE WHATSOEVER TO THE PAVEMENT.
- I. ANY PAVEMENT, SIDEWALK, CURB AND RAMP DISTURBED DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND/OR REPLACE TO ORIGINAL OR BETTER CONDITION AND BE MATCHED WITH EXISTING GRADE.
- J. THE DEVELOPMENT HAS BEEN DESIGNED TO NOT IMPEDE, IMPOUND, OR BLOCK THE NATURAL FLOW OF WATER ACROSS ADJACENT AND CONTIGUOUS PROPERTIES.
- K. NEEDS TO BE A 2' MINIMUM VERTICAL CLEARANCE FOR THE WATER LINE CROSSING AND SANITARY SEWER CROSSING IS REQUIRED PER TCEQ/COB REQUIREMENTS.
- L. ALL WATERLINE TEES, BENDS, REDUCERS, VALVES, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND BLOCKED. MECHANICAL RESTRAINT SHALL BE BY EBAA MEGALUG FOR PVC PIPE OR APPROVED EQUAL.
- M. CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES AND TO ENSURE ALL DRAINAGE DITCHES REMAIN OPEN AND CLEAR AT ALL TIMES.
- N. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), CURRENT EDITION.
- O. UNLESS THE TRAFFIC CONTROL DEVICES ARE PROTECTING AN ACTIVE CONSTRUCTION SITE, ALL NONESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM ROAD VISIBILITY IN ORDER TO PREVENT CONFUSION FOR THE ROAD USER.
- P. ALL EXISTING DRIVEWAYS WITHIN THE TRAFFIC CONTROL ZONE SHALL REMAIN OPEN AT ALL TIMES UNLESS AGREED UPON BY THE OWNER OF THE DRIVEWAY. ALL AGREEMENTS FOR OFF-SITE DRIVEWAY CLOSURES SHALL BE INCLUDED WITH THE TRAFFIC CONTROL PLAN SUBMITTAL.
- Q. NO WORK WITHIN THE CITY OF BAYTOWN ROW MAY OCCUR WITHOUT THE FULL IMPLEMENTATION OF THE APPROVED TRAFFIC CONTROL PLAN INTENDED TO PROTECT THAT WORK.
- R. NO WORK WITHIN THE CITY OF BAYTOWN ROW THAT REQUIRES TRENCHING, EXCAVATION OR DIGGING MAY BE LEFT UNPROTECTED WHEN WORKERS ARE NOT PRESENT. CONTACT CITY OF BAYTOWN TRAFFIC ENGINEER FOR ACCEPTABLE METHODS OF WORK PROTECTION.
- S. NO STAGING OF EQUIPMENT, WORK, MATERIALS OR WORKERS MAY TAKE PLACE ON A CITY OF BAYTOWN ROADWAY WITHOUT APPROPRIATE TRAFFIC CONTROL IN PLACE.

ABBREVIATIONS

| | | | |
|------------|---------------------------------|------------|---|
| ABC | AGGREGATE BASE COURSE | MH | MANHOLE |
| AC | ACRES/ASPHALT CONCRETE | MIN | MINIMUM |
| ADA | AMERICANS WITH DISABILITIES ACT | N | NORTH |
| | | NTS | NOT TO SCALE |
| ARCH | ARCHITECT/ARCHITECTURAL | N.P.D.E.S. | NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM |
| B.C. | BRASS CAP | | |
| BC | BACK OF CURB | | |
| BCR | BEGINNING OF CURB RETURN | P | PAVEMENT ELEVATION |
| BK | BOOK | PC | POINT OF CURVATURE |
| BLDG | BUILDING | PCC | POINT OF COMPOUND |
| CF | CUBIC FEET | | CURVATURE |
| CFS | CUBIC FEET PER SECOND | P.E. | PROFESSIONAL ENGINEER |
| CL | CENTERLINE | PCCP | PORTLAND CEMENT CONCRETE |
| C, CONC | CONCRETE | | |
| CMP | CORRUGATED METAL PIPE | PG | PAGE |
| COR | CORNER | PT | POINT OF TANGENCY |
| CY | CUBIC YARDS | PUE | PUBLIC UTILITY EASEMENT |
| DET | DETAIL | PVC | POLYVINYL CHLORIDE |
| E | EAST/ELECTRIC | R | RADIUS/RANGE |
| ECR | END OF CURB RETURN | R/W | RIGHT-OF-WAY |
| ELEV | ELEVATION | REF | REFERENCE |
| ESMT | EASEMENT | REV | REVISION |
| EXIST, EX. | EXISTING | S | SOUTH |
| F/C | FACE OF CURB | SCH | SCHEDULE |
| FF | FINISHED FLOOR ELEVATION | SEC | SECTION |
| FL | FLOWLINE | SES | SERVICE ENTRY SECTION |
| FT | FEET | STBK | SETBACK |
| GB | GRADE BREAK | SF | SQUARE FEET |
| HDPE | HIGH DENSITY POLYETHYLENE | SPEC | SPECIFICATION |
| | | SS | SANITARY SEWER |
| HP | HIGH POINT | ST | STREET |
| HR | HOUR | STD | STANDARD |
| IBC | INTERNATIONAL BUILDING CODE | SW | TOP OF SIDEWALK |
| | | SY | SQUARE YARDS |
| IFC | INTERNATIONAL FIRE CODE | T | TELEPHONE/ TOWNSHIP/ TANGENT |
| INV | INVERT | | |
| IRR | IRRIGATION | TC | TOP OF CURB |
| L | LENGTH | TYP | TYPICAL |
| LF | LINEAR FEET | W | WEST/WATER/WIDTH |
| MAX | MAXIMUM | W/ | WITH |
| MEP | MECHANICAL/ELECTRICAL/ PLUMBING | | |



Know what's below.
Call before you dig.

CAUTION!!

CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tel: 972-769-3100 Fax: 972-769-3101

Store:

Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineers Information:

Kimley»Horn

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Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 1 | 11/12/2021 | 80% REVIEW SET |
| 2 | 11/30/2021 | 1ST BLDG SUBMITTAL |
| 3 | 12/20/2021 | 1ST BLDG RESUBMITTAL |
| 4 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |

Sheet Title:

GENERAL AND CITY
NOTES

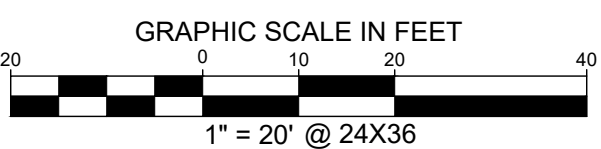
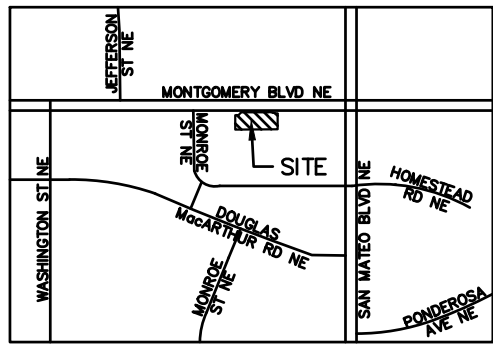
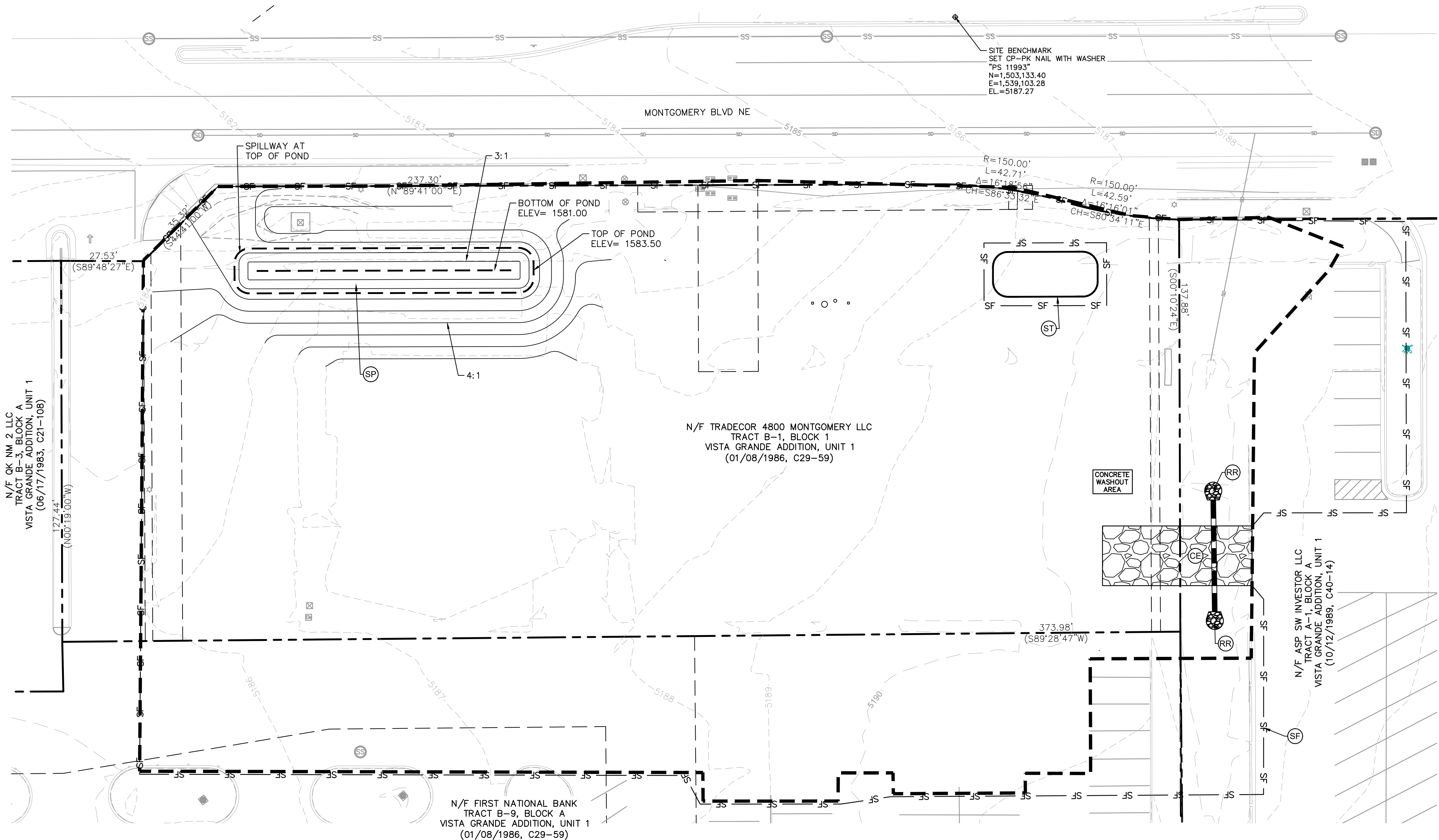
Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C2.1



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED LIMITS OF LAND-DISTURBING ACTIVITIES
- PROPOSED STORM PIPE
- SILT FENCE, TYPE I - SEE DETAIL SHEET
- CONSTRUCTION EXIT/ OFFSITE TRACKING PREVENTION
- TEMPORARY SEDIMENTATION POND
- RIP RAP WITH FILTER FABRIC
- STOCKPILE

SITE SOILS

ALL SOILS ONSITE ARE TYPE EMB, EMBUDO GRAVELLY FINE SANDY LOAM, 0 TO 5 PERCENT SLOPES, HYDROLOGIC SOIL GROUP A.

EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING PHASING SCHEDULE. REFERENCE THE SWPPP BOOK AND NMED GENERAL PERMIT FOR DETAILED REQUIREMENTS.

PHASE 1 - DEMOLITION

- INSTALL PERIMETER BMPs INCLUDING THE CONSTRUCTION ENTRANCE/EXIT, SWPPP SIGNAGE, SILT FENCE, AND ALL OTHER NECESSARY BMPs ACCORDING TO THE LOCATION SHOWN ON THE EROSION CONTROL PLAN. CLEAR ONLY THE MINIMUM AREA REQUIRED TO INSTALL BMPs.
- SET THE PROJECT OFFICE TRAILER AND PREPARE TEMPORARY PARKING AND STORAGE AREAS.
- DENOTE DATES OF BMP INSTALLATION AND MAINTENANCE ON SITE-MAPS.
- BEGIN DEMOLITION AND CLEARING OF THE SITE.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WHENEVER CLEARING, GRADING, OR EARTH DISTURBING ACTIVITIES HAVE CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED AND WILL NOT RESUME WITHIN 14 DAYS PER GENERAL PERMIT REQUIREMENTS.

PHASE 2 - GRADING

- ENSURE APPROPRIATE BMPs ARE IN PLACE DOWNSTREAM OF SITE WORK OR WHERE RUNOFF MAY EXIT THE SITE.
- BEGIN GRADING THE SITE.
- SEED AND RE-VEGETATE SLOPES AS AREAS ARE BROUGHT TO GRADE OR STOCKPILES THAT WILL REMAIN INACTIVE FOR 14 DAYS PER GENERAL PERMIT REQUIREMENTS.

PHASE 3 - UTILITIES

- KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
- INSTALL UTILITIES, STORM DRAINS, CURB AND GUTTERS.
- INSTALL INLET PROTECTION AS SPECIFIED ON PLAN SHEETS AS STORM STRUCTURES ARE INSTALLED.
- TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION, ANY DISTURBED AREAS THAT ARE LIKELY TO REMAIN INACTIVE FOR 14 DAYS.

PHASE 4 - PAVING

- KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
- STABILIZE SUBGRADE.
- PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.

PHASE 5 - LANDSCAPING AND DEVELOPMENT

- INSTALL LANDSCAPING PER THE LANDSCAPE PLANS AND DETAILS.
- REMOVE EROSION CONTROL DEVICES WHEN FINAL STABILIZATION IS ACHIEVED PER THE TPDES GENERAL PERMIT.
- STABILIZE ANY AREAS DISTURBED BY REMOVAL OF BMPs.



Know what's below.
Call before you dig.



GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING IMPROVEMENTS SHOWN ON THE PLAN.
- CONTRACTOR TO PROTECT IN PLACE, DURING DEMOLITION AND CONSTRUCTION, ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN AS NOTED ON THE PLAN.
- ANY EXISTING STRUCTURE, IMPROVEMENT OR APPURTENANCE TO REMAIN THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION AND PROTECT IN PLACE UNLESS NOTES ON THE PLANS.
- THE CONTRACTOR SHALL EXERCISE CAUTION TECHNIQUES TO PROTECT AND PRESERVE EXISTING PERMANENT SURVEY MONUMENTS. ALL SURVEY MONUMENTS DISTURBED (PROPOSED AND EXISTING) SHALL BE REPLACED AND/OR REHABILITATED IN ACCORDANCE WITH STANDARDS BY A PROFESSIONAL LAND SURVEYOR RETAINED BY THE CONTRACTOR.

SITE DATA

| | |
|--------------------------|---------------------|
| LOT AREA | 55,027 SF ± 1.26 AC |
| TOTAL DISTURBED AREA | 69,241 SF ± 1.59 AC |
| • DISTURBED AREA ONSITE | 50,168 SF ± 1.15 AC |
| • DISTURBED AREA OFFSITE | 19,073 SF ± 0.44 AC |

24-HR EMERGENCY CONTACT

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ROBERT MONTGOMERY
(972) 769-3357

CITY OF ALBUQUERQUE EROSION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL (ESC) WORK ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON SHALL BE PERMITTED, CONSTRUCTED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH:
 - THE CITY ORDINANCE § 14-5-2.11, THE ESC ORDINANCE.
 - THE EPA'S 2017 CONSTRUCTION GENERAL PERMIT (CGP) AND
 - THE CITY OF ALBUQUERQUE CONSTRUCTION BMP MANUAL
- ALL BMP'S MUST BE INSTALLED PRIOR TO BEGINNING ANY EARTH MOVING ACTIVITIES EXCEPT AS SPECIFIED HEREON IN THE PHASING PLAN. CONSTRUCTION OF EARTHEN BMP'S SUCH AS SEDIMENT TRAPS, SEDIMENT BASINS, AND DIVERSION BERMS SHALL BE COMPLETED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION OR EARTHWORK. SELF-INSPECTION IS REQUIRED AFTER INSTALLATION OF THE BMP'S AND PRIOR TO BEGINNING CONSTRUCTION.
- SELF-INSPECTIONS - AT A MINIMUM A ROUTINE COMPLIANCE SELF-INSPECTION IS REQUIRED TO REVIEW THE PROJECT FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT ONCE EVERY 14 DAYS AND AFTER ANY PRECIPITATION EVENT OF 1/4 INCH OR GREATER UNTIL THE SITE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE DETERMINED AS STABILIZED BY THE CITY. REPORTS OF THESE INSPECTIONS SHALL BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
- CORRECTIVE ACTION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
- STABILIZATION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST. REPORTS SHOULD INCLUDE RECORDS OF WEED REMOVAL PER CITY ORDINANCE (§ 9-8-1), STERILIZATION, SOIL TEST RESULTS AND RECOMMENDATION, MATERIALS AND MANUFACTURER'S SPECIFICATIONS FOR APPLICATION RATES, ESTIMATED FUNCTIONAL LONGEVITY, METHODS OF APPLICATION, INSPECTION AND MAINTENANCE. THE REDUCED SELF-INSPECTION SCHEDULE IN CGP 4.4.1 APPLIES TO STABILIZED AREA AND ANY DAMAGED OR WORN STABILIZATION MUST BE IDENTIFIED IN THE REPORTS ALONG WITH WEED PROBLEMS. CORRECTIVE ACTIONS FOR STABILIZATION SHALL BE DOCUMENTED IN A STABILIZATION REPORT INCLUDING ACTUAL RATES AND DATES OF STABILIZATION, AND THE MATERIALS AND MANUFACTURER'S SPECIFICATIONS USED.
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Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

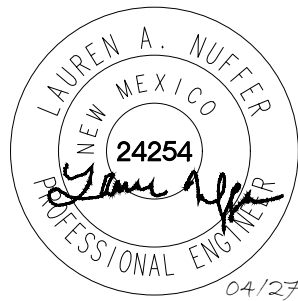
Engineer's Information:

Kimley»Horn

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AND ASSOCIATES, INC.

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LIZ WILLMOT, P.E.
LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

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| 4 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
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Sheet Title:

EROSION CONTROL PLAN PH. I

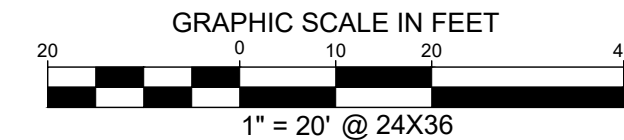
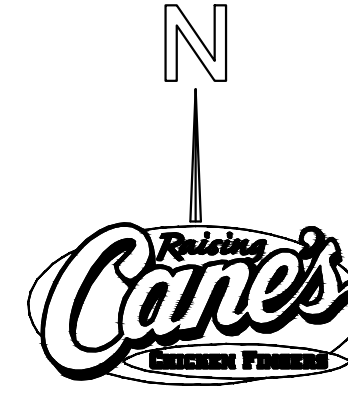
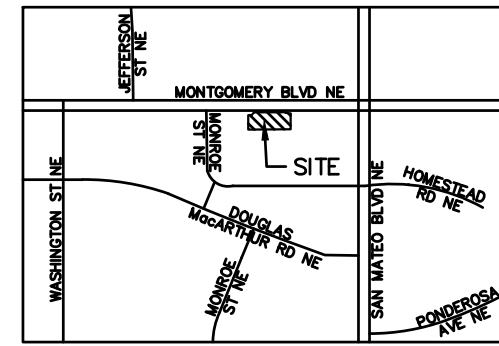
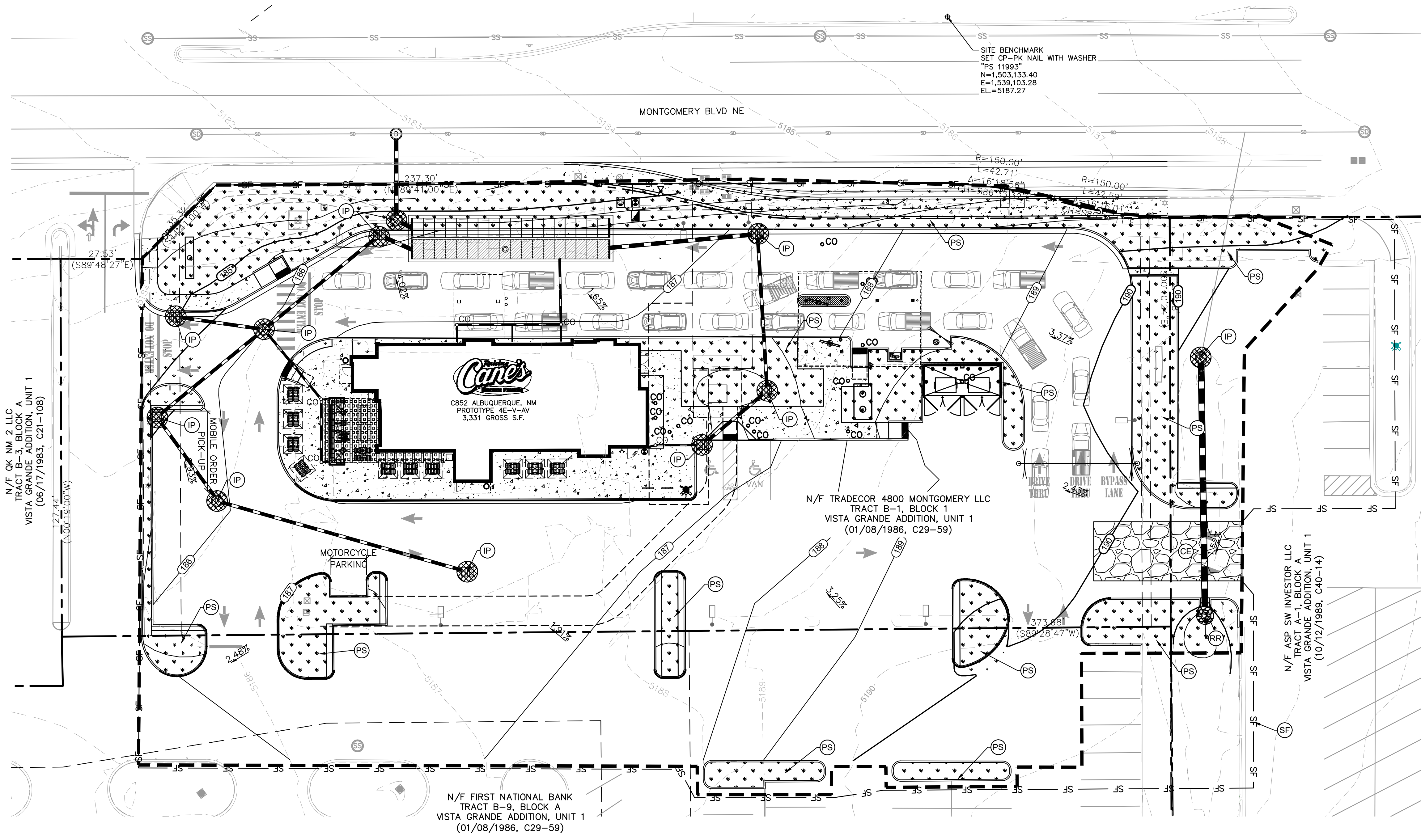
Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C3.0



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED LIMITS OF LAND-DISTURBING ACTIVITIES
- DIRECTION OF OVERLAND FLOW W/ GRADE
- SILT FENCE, TYPE I - SEE DETAIL SHEET
- CONSTRUCTION EXIT/ OFFSITE TRACKING PREVENTION
- PERMANENT STABILIZATION
- RIP RAP WITH FILTER FABRIC
- INLET SEDIMENT CONTROL DEVICE

SITE SOILS

ALL SOILS ONSITE ARE TYPE EMB, EMBUDO GRAVELLY FINE SANDY LOAM, 0 TO 5 PERCENT SLOPES, HYDROLOGIC SOIL GROUP A.

EROSION CONTROL SCHEDULE AND PHASING

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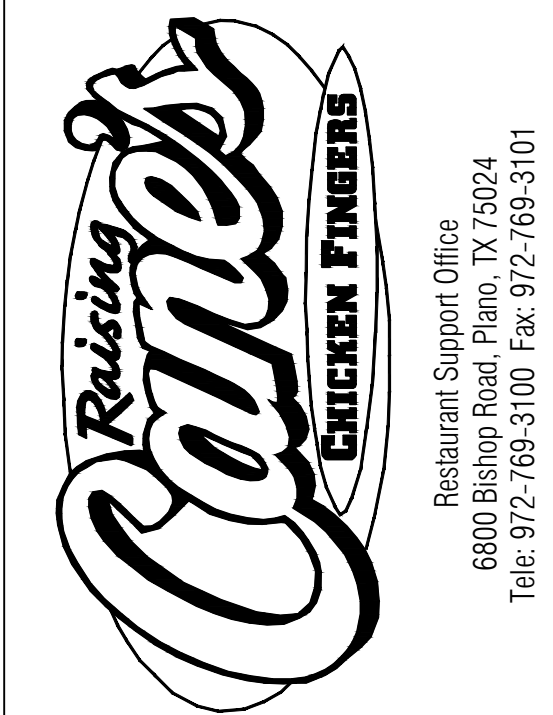
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Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

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13455 Noel Road
Suite 700
Dallas, TX 75240
CONTACT: LAUREN NUFFER, P.E.
(972) 770-1300
LAUREN.NUFFER@KIMLEY-HORN.COM
LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

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| 1 | 11/12/2021 | 80% REVIEW SET |
| 2 | 11/30/2021 | 1ST BLDG SUBMITTAL |
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Sheet Title:

EROSION CONTROL PLAN PH. II

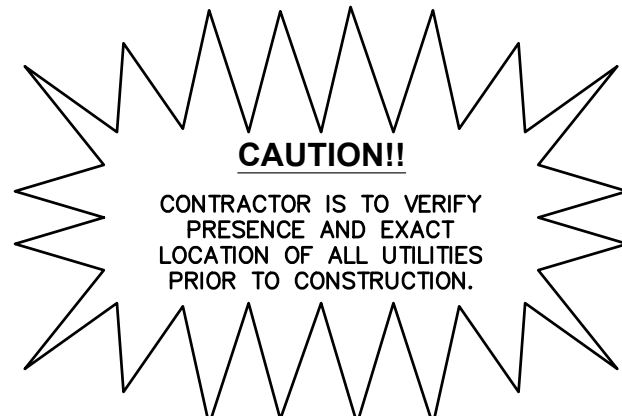
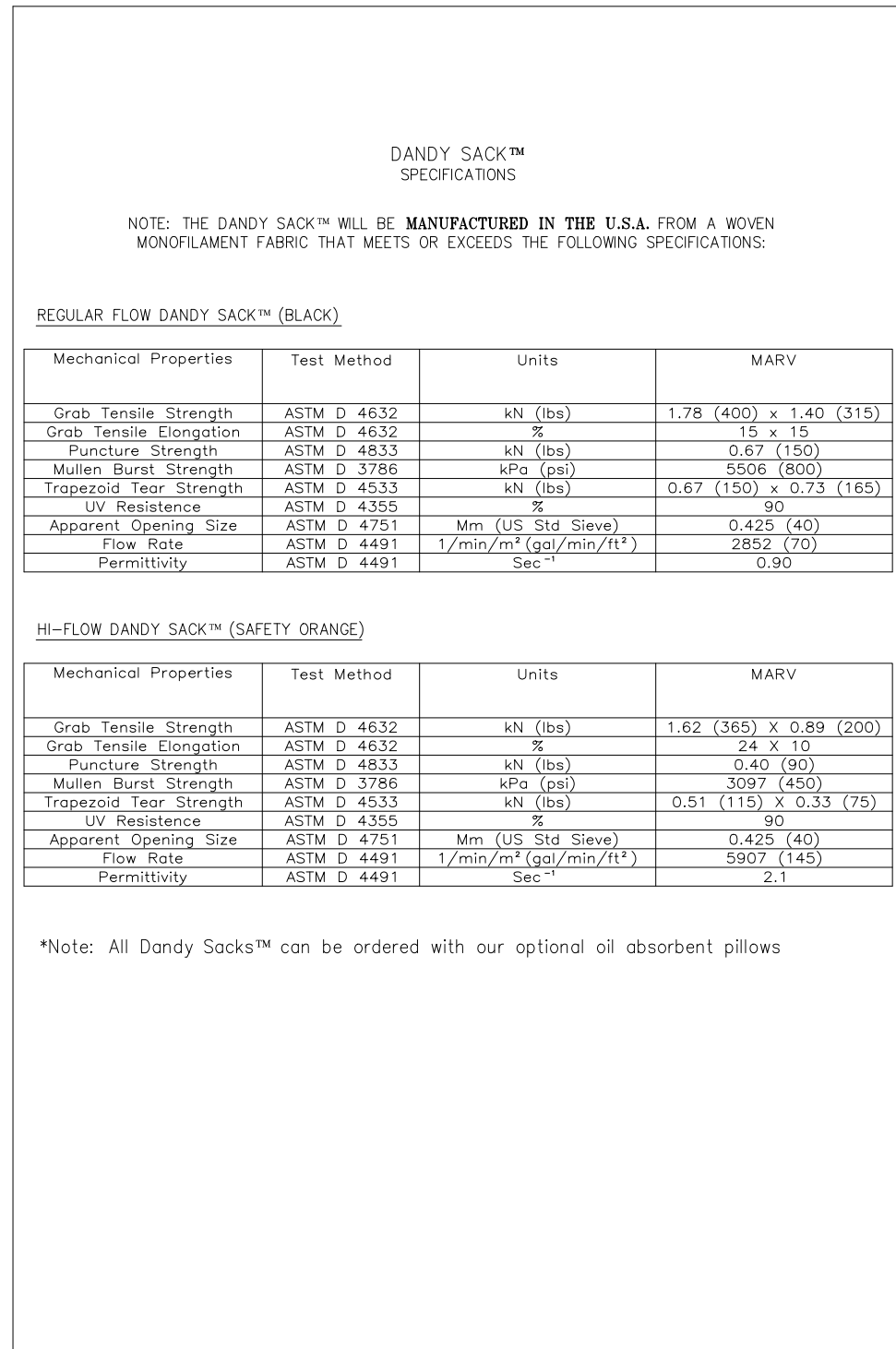
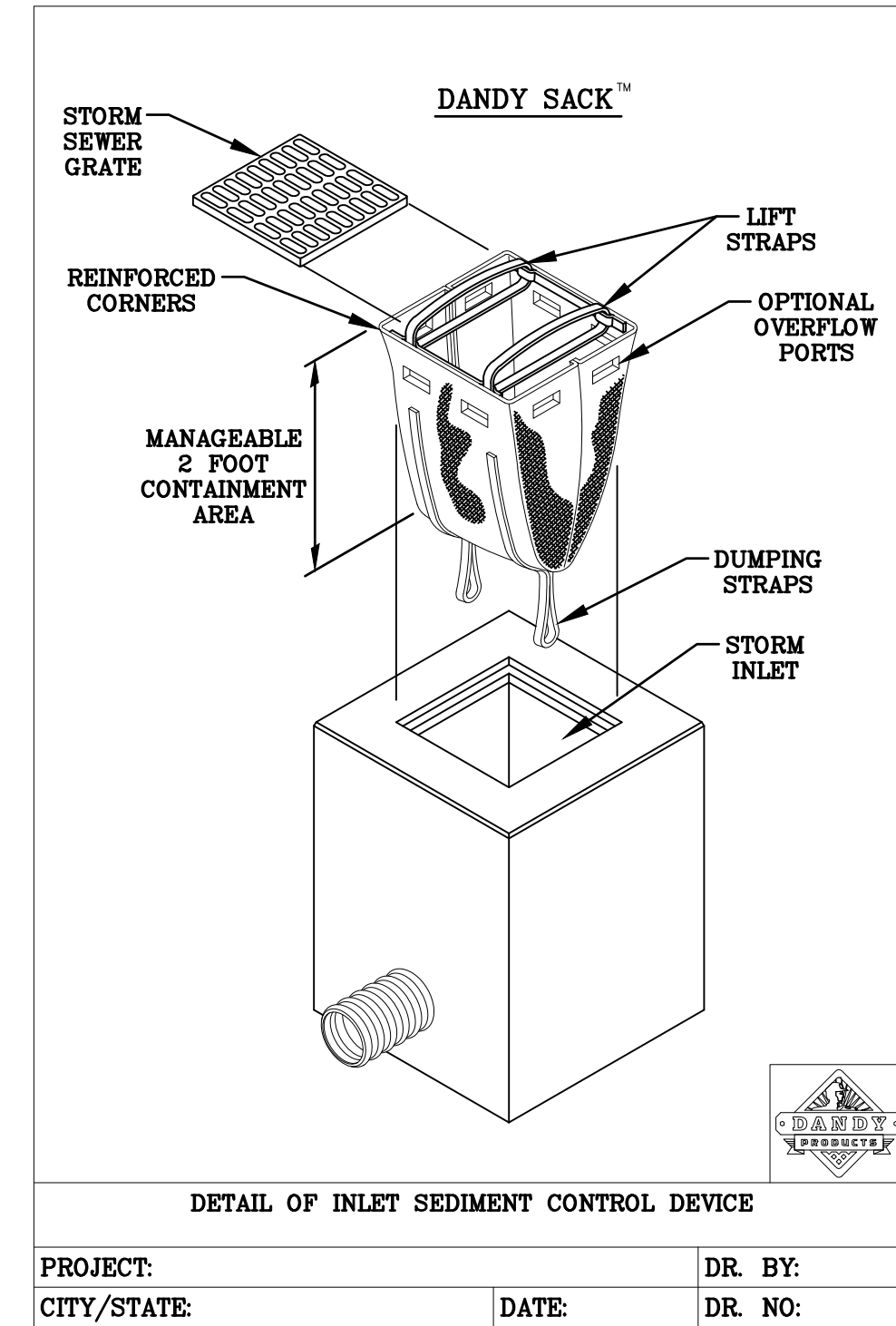
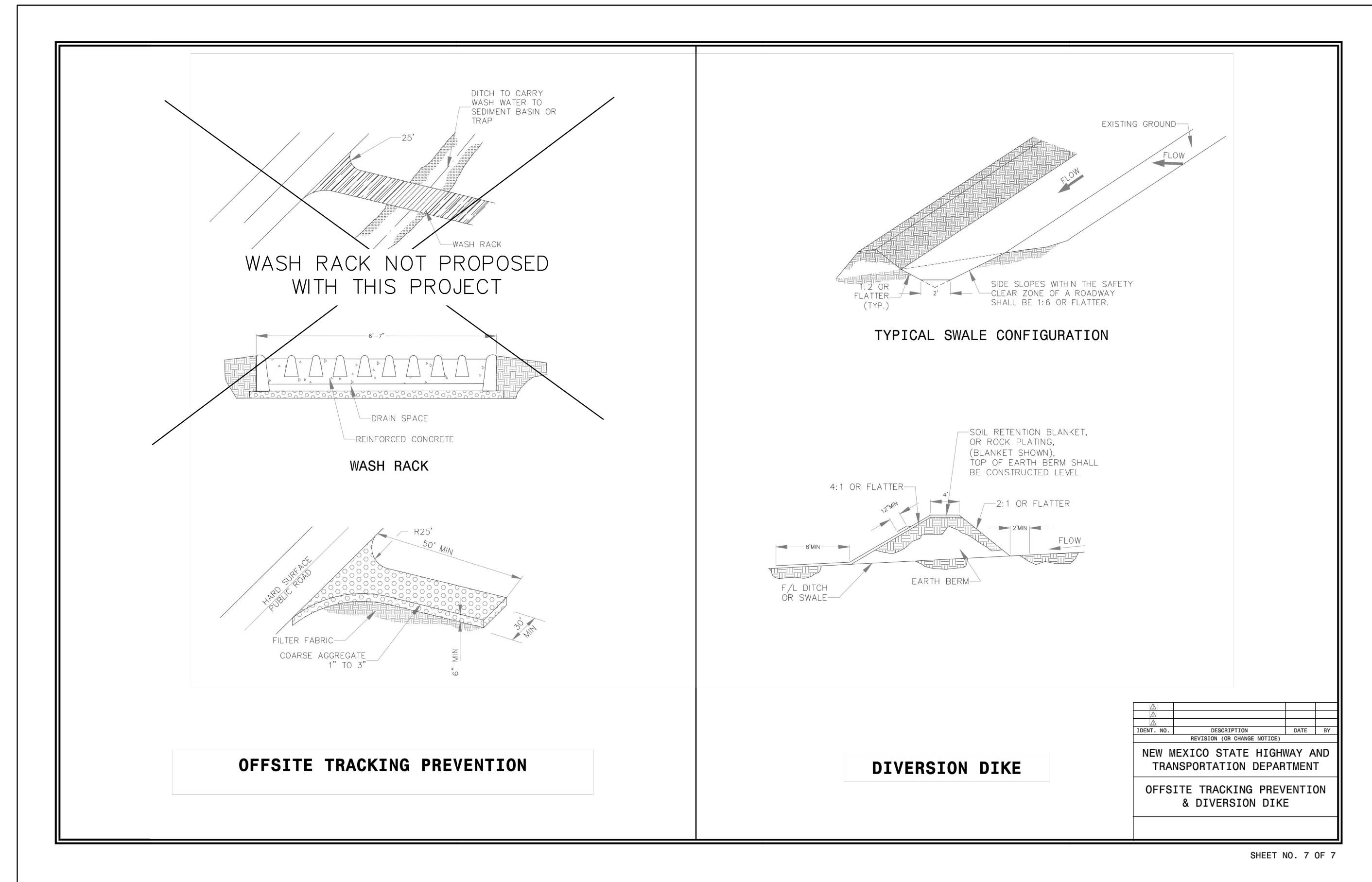
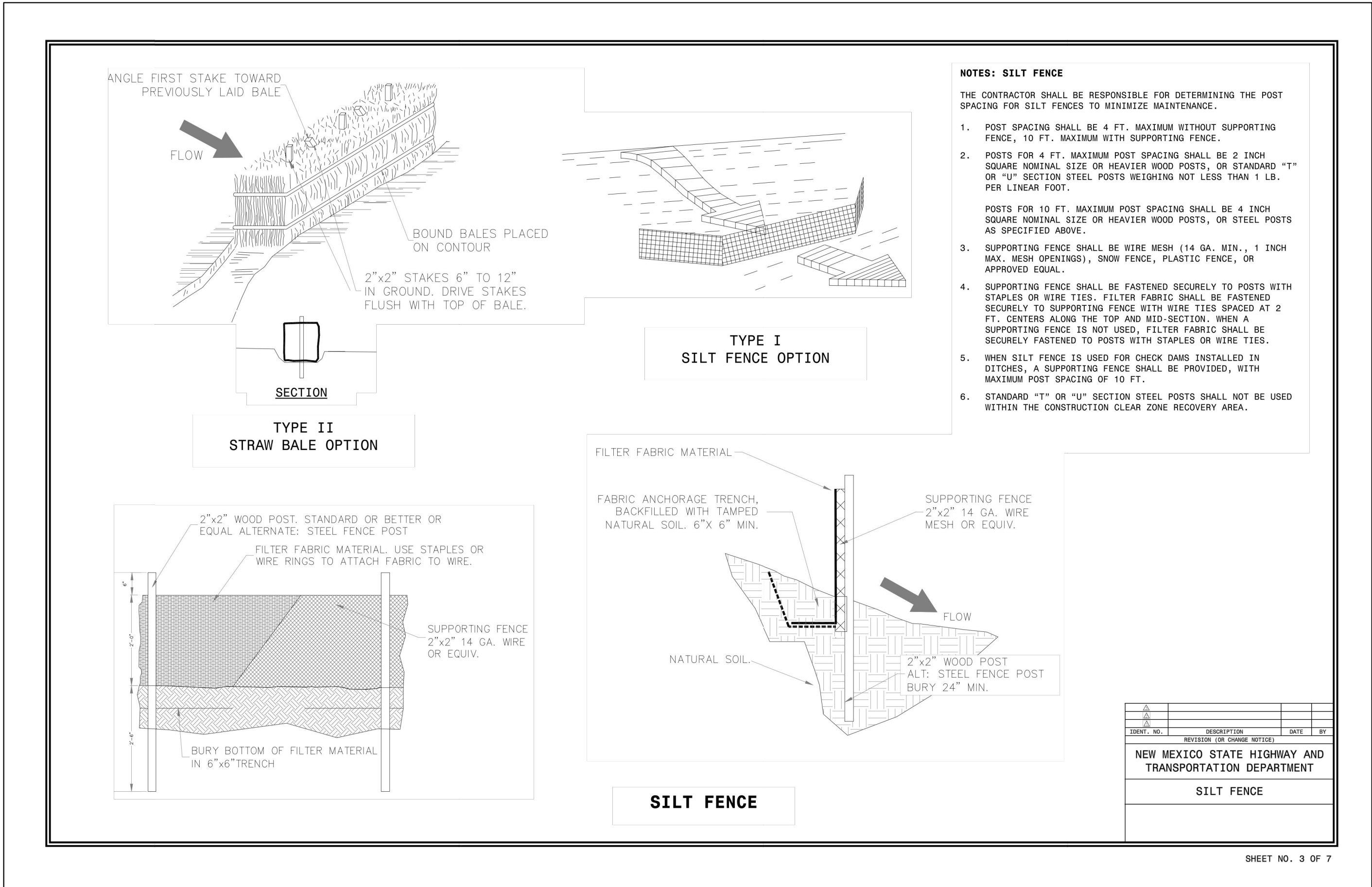
Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C3.1



Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

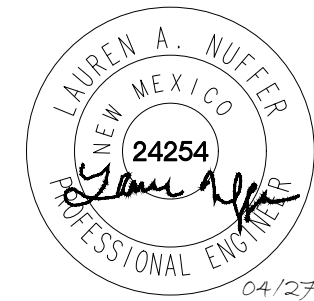
Engineer's Information:

Kimley»Horn

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Sheet Title:

EROSION CONTROL DETAILS

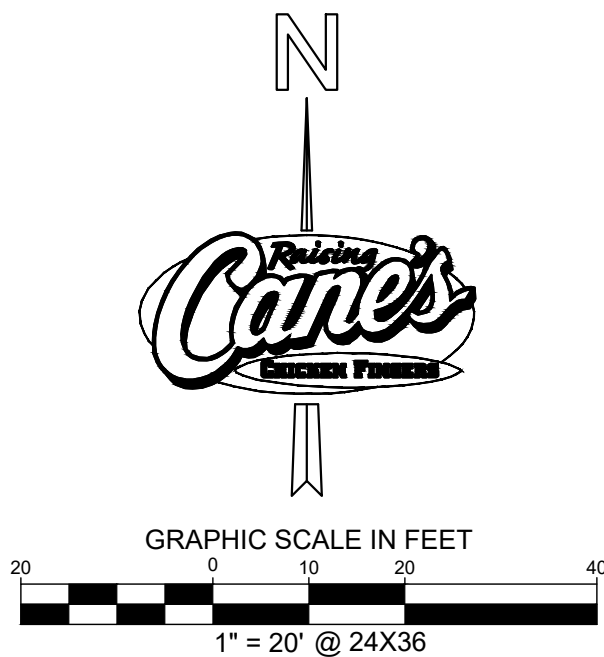
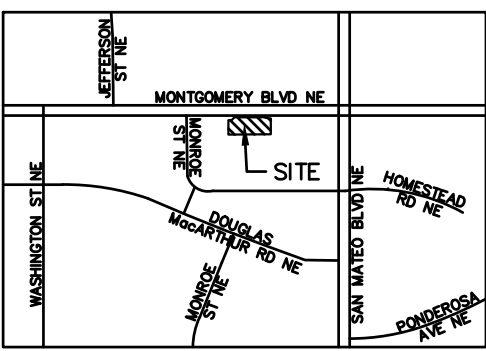
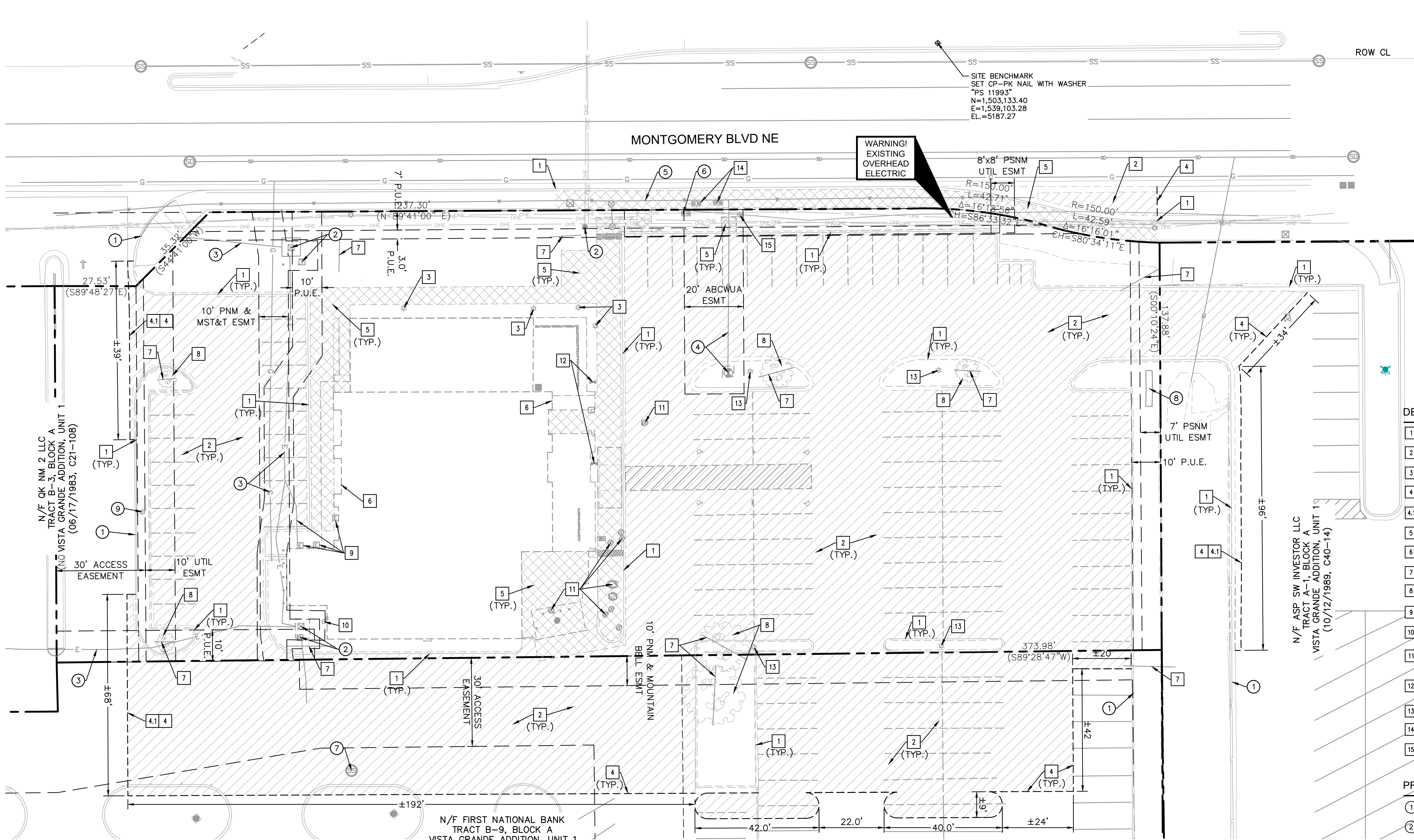
Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C3.2



DEMOLITION LEGEND

- 1 REMOVE EXISTING CURB
- 2 REMOVE EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE COURSE
- 3 REMOVE EXISTING UPLIGHTING
- 4 SAWCUT EXISTING PAVEMENT LENGTH PER PLAN
- 4.1 SAWCUT FOR CURB REMOVAL TO BE LOCATED 2 LF BEYOND EDGE OF CONCRETE GUTTER
- 5 REMOVE EXISTING CONCRETE SIDEWALK/PAVEMENT AND AGGREGATE BASE COURSE
- 6 REMOVE EXISTING BUILDING
- 7 REMOVE EXISTING IRRIGATION LINES
- 8 REMOVE EXISTING TREE
- 9 REMOVE EXISTING ELECTRICAL SERVICE FOR FORMER BUILDING
- 10 REMOVE EXISTING GAS SERVICE FOR FORMER BUILDING
- 11 REMOVE EXISTING SANITARY SERVICE FOR FORMER BUILDING & ALL ASSOCIATED STRUCTURES, INCLUDING BUT NOT LIMITED TO CLEANOUTS AND GREASE TRAPS
- 12 REMOVE EXISTING WATER SERVICES FOR FORMER BUILDING & ALL ASSOCIATED STRUCTURES
- 13 REMOVE EXISTING PARKING LOT LIGHT POLES AND FOUNDATIONS
- 14 EXISTING ELECTRICAL PULLBOXES TO BE RELOCATED
- 15 EXISTING STREET LIGHT TO BE RELOCATED

PROTECTION NOTES

- 1 PROTECT IN PLACE EXISTING CURB
- 2 PROTECT IN PLACE EXISTING ELECTRICAL & TELECOMM. STRUCTURES
- 3 PROTECT IN PLACE EXISTING ELECTRICAL AND GAS LINES WITHIN EASEMENT
- 4 PROTECT IN PLACE EXISTING FIRE LINE & FIRE HYDRANT
- 5 PROTECT IN PLACE EXISTING WATERLINE
- 6 PROTECT IN PLACE EXISTING ELECTRICAL PULLBOX, TO BE RESET AT FINISHED GRADE
- 7 PROTECT IN PLACE EXISTING SSMH
- 8 PROTECT IN PLACE EXISTING FIESTA CROSSINGS SHOPPING CENTER PYLON SIGN
- 9 PROTECT IN PLACE EXISTING PARKING LOT LIGHTING

DEMOLITION LEGEND

- PROPERTY LINE
- REMOVE EXISTING CONCRETE
- REMOVE EXISTING ASPHALT PAVEMENT TO SUBGRADE
- PROPOSED FULL DEPTH SAWCUT
- EXISTING CURB TO BE REMOVED
- EXISTING CURB TO REMAIN

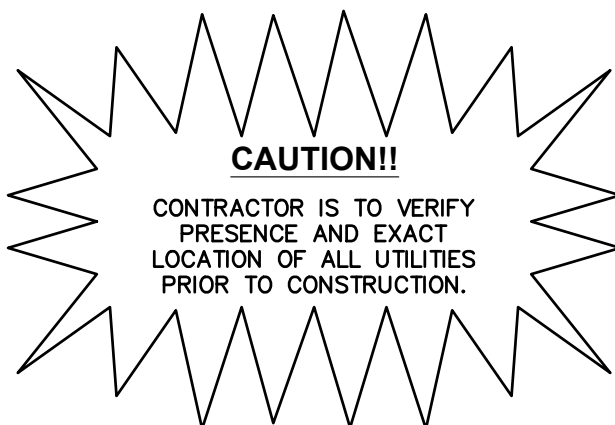
DEMOLITION NOTES

1. INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS REQUIRED TO CONTROL SEDIMENT FROM LEAVING THE SITE PRIOR TO COMMENCING DEMOLITION WORK ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PROPOSED PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY THEMSELVES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR MARKING ONSITE LOCATIONS OF EXISTING UTILITIES.
6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CITY AND OWNER.
9. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE EXISTING FACILITIES TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
10. CONTRACTOR SHALL LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
11. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO EXISTING BUILDINGS TO REMAIN AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
12. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
13. CONCRETE/ASPHALT/BRICK, ETC. CAN BE CRUSHED (ON SITE OR OFFSITE) AND REUSED AS BASE MATERIAL FOR FUTURE PAVING AND BUILDING AREAS AS LONG AS IT MEETS REQUIRED GRADATION PER PLANS, CITY/NTCOG REQUIREMENTS AND GEOTECH REPORT.
14. 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.
15. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN FOR THE LOCATION OF THE TREES THAT ARE ALLOWED TO REMAIN/TO BE REMOVED ONCE A TREE REMOVAL PERMIT IS OBTAINED BY THE CONTRACTOR.
 16. 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 CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL 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.
 17. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS AND INSPECTION REPORTS (SWPPP).
 18. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER 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 AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
 19. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRAFFIC CONTROL PLAN AND THE INSTALLATION OF TRAFFIC CONTROL DEVICES FOR ANY STREET WORK.
 20. ALL DEMOLITION WORK OR CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL CLOSELY COORDINATED WITH TREE PRESERVATION ACTIVITIES.
 21. 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 OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
 22. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
 23. ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICAL AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE PRE-APPROVED BY THE ENGINEER AND OWNER PRIOR TO STOCKPILING.
 24. CONTRACTOR TO PULL ALL TREE REMOVAL PERMITS FOR ANY REQUIRED TREE REMOVAL.
 25. ALL IRRIGATION ON-SITE NOT TO BE RE-USED SHOULD BE REMOVED. REFER TO IRRIGATION PLAN.
 26. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS STORM DRAINAGE, SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN OR AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
 27. QUANTITIES SHOWN HERE ARE APPROXIMATE AND ARE PROVIDED FOR CONVENIENCE ONLY AND NOT FOR BID PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES NECESSARY TO DEMO FACILITIES SHOWN.
 28. REFERENCE ALTA SURVEY FOR TREE SIZE AND SPECIES INFO.
 29. REFERENCE PHASE I ESA BY TERRACON FOR ENVIRONMENTAL CONDITIONS THAT MAY BE PRESENT ON SITE.
 30. PRIOR TO DEMOLITION, CONTRACTOR IS TO FIELD VERIFY LOCATION OF ELECTRIC SERVICE LINE TO EXISTING TARGET PYLON SIGN. THE CONTRACTOR IS TO ENSURE POWER TO THE SIGN IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES TO REMAIN IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE, AT THEIR OWN EXPENSE.



Know what's below.
Call before you dig.



Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

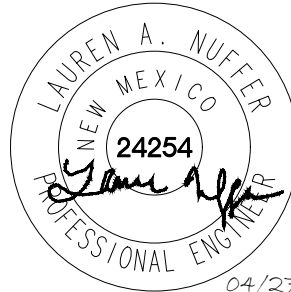
Engineer's Information:

Kimley»Horn

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AND ASSOCIATES, INC.

13455 Noel Road
Suite 700
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CONTACT: LAUREN NUFFER, P.E.
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Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 1 | 11/12/2021 | 80% REVIEW SET |
| 2 | 11/30/2021 | 1ST BLDG SUBMITTAL |
| 3 | 12/20/2021 | 1ST BLDG RESUBMITTAL |
| 4 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
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Sheet Title:

DEMOLITION PLAN

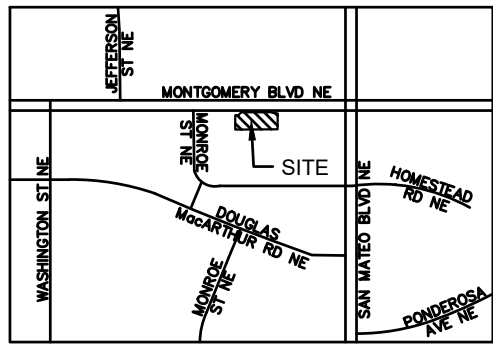
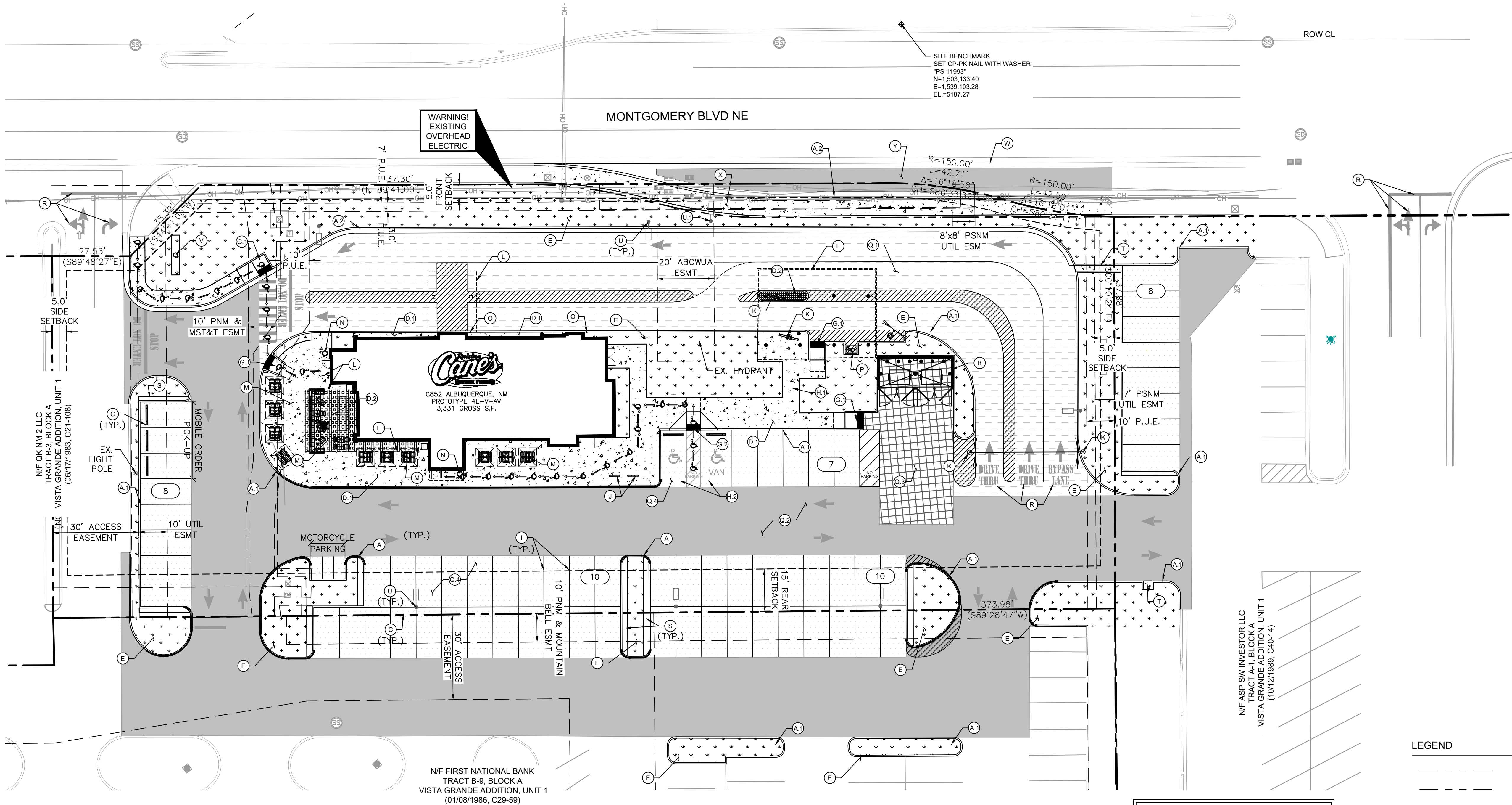
Date: 04.27.2022

Project Number: 090042000

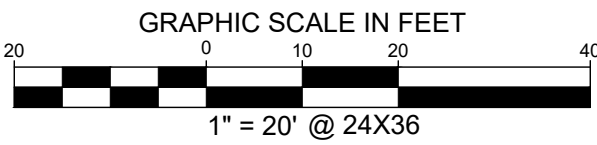
Drawn By: LW/LN

Sheet Number:

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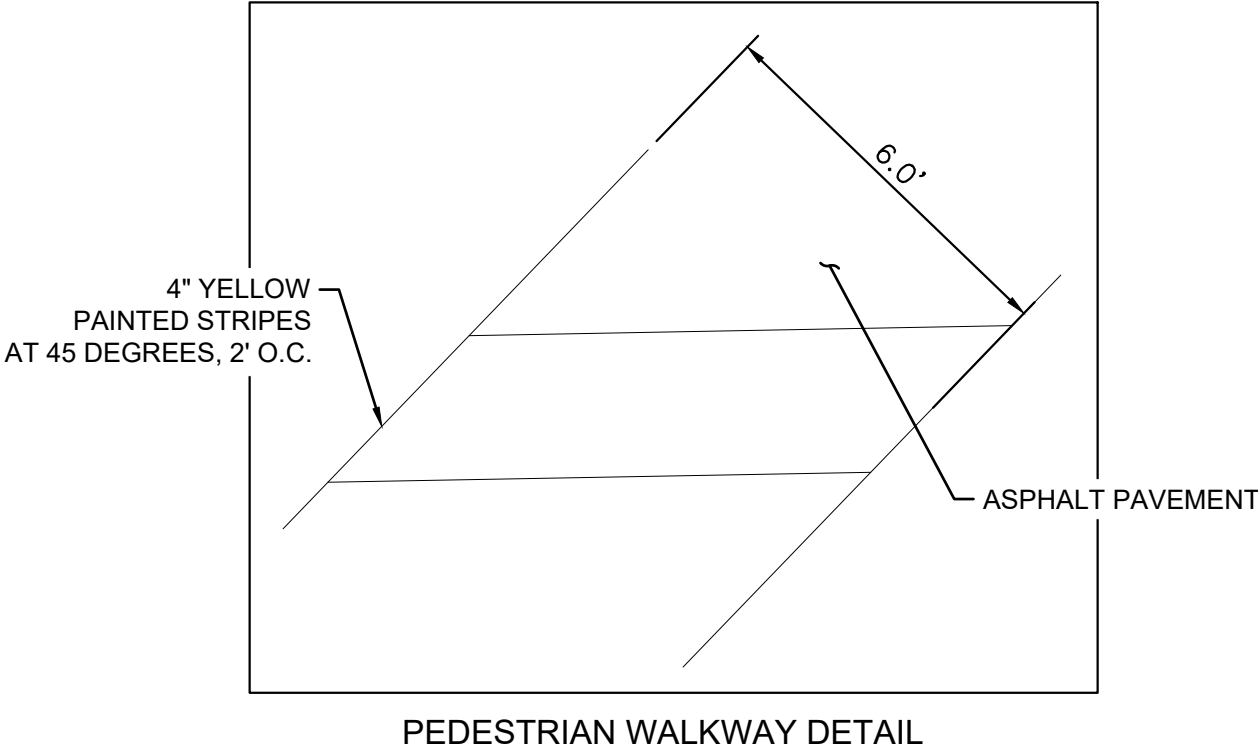
VICINITY MAP
(NOT TO SCALE)



LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EASEMENT/SETBACK
- PROPOSED SAWCUT
- PROPOSED CONCRETE CURB
- EXISTING CURB
- PROPOSED PARKING COUNT
- PROPOSED LANDSCAPE AREA
- CONCRETE SIDEWALK
- COVERED PATIO INTEGRAL COLOR SMOKESTACK 102 - 5LB
- PAVERS AT CENTER MENU ISLAND UNDER CANOPY BELGARD HOLLAND STONE, LEGACY PAVERS IN HERRINGBONE/BASKETWEAVE PATTERN CHARCOAL OR SIMILAR GRAY COLOR SEE DETAIL SHEET C9.0
- LIGHT DUTY ASPHALT PAVEMENT
- MEDIUM DUTY ASPHALT PAVEMENT
- INTEGRAL COLORED 860 GRAPHITE (IRON OXIDE) STANDARD DUTY CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- ACCESSIBLE ROUTE (LOCATION PURPOSES ONLY, DO NOT PAINT)

| PARKING / SITE DATA PER IDO | | |
|---|-----------------------------|-----------|
| TRACT B-1 VISTA GRANDE SUBDIVISION | | |
| EXISTING ZONING | MIXED USE (MX-M) | |
| PROPOSED USE | RESTAURANT W/ DRIVE-THRU | |
| LOT AREA | 55,027 SF / 1.26 AC | |
| BUILDING AREA | 3,331 SF | |
| FINISHED FLOOR ELEVATION | 5,187.71 FT | |
| IMPERVIOUS AREA | 44,679 SF | |
| LOT COVERAGE | 81.2% | |
| | REQUIRED | PROVIDED |
| TOTAL PARKING | 34 SPACES | 35 SPACES |
| ACCESSIBLE | 2 SPACES | 2 SPACES |
| MOTORCYCLE | 2 SPACES | 3 SPACES |
| BICYCLE | 3 SPACES | 5 SPACES |
| PARKING REQUIRED FOR DRIVE-THRU RESTAURANT IS 8 SPACES / 1,000 SF INDOOR AND 3 SPACES / 1,000 SF OF OUTDOOR SPACE. | | |



| KEYNOTE LEGEND | |
|----------------|---|
| A | CONSTRUCT 6" TYPE 1 PINNED CURB, REFER TO CITY OF ALBUQUERQUE CONSTRUCTION DETAILS ON SHEET C10.0 |
| A2 | CONSTRUCT 6" STANDARD CURB & GUTTER, REFER TO CITY OF ALBUQUERQUE CONSTRUCTION DETAILS ON SHEET C10.0 |
| B | RECYCLING/TRASH DUMPSTER LOCATION, REFER TO ARCHITECTURAL PLANS FOR DETAILS OF SCREENING, GATES, BOLLARDS AND MASONRY |
| C | WHEEL STOPS, SEE DETAIL ON SHEET C9.0 |
| C1 | PRIVATE CONCRETE SIDEWALK, SEE DETAIL ON SHEET C9.0 |
| C2 | COVERED PATIO INTEGRAL COLOR SMOKESTACK 102 - 5LB |
| C3 | PAVERS IN MENU ISLAND: BELGARD HOLLAND STONE, LEGACY PAVERS IN HERRINGBONE/BASKETWEAVE PATTERN CHARCOAL OR SIMILAR GRAY COLOR SEE LANDSCAPE FOR INSTALLATION DETAIL |
| E | LANDSCAPE AREA, REFER TO LANDSCAPE PLANS |
| E1 | BARRIER FREE RAMP, SEE DETAIL ON SHEET C9.0 |
| E2 | SIDEWALK RAMP AND DETECTABLE WARNING SYSTEM PER CITY OF ALBUQUERQUE STANDARD DWG 2442 (DETAIL A) |
| H1 | RAMP, SEE GRADING PLAN SHEET C6.0 FOR DETAILS |
| H2 | ACCESSIBLE PARKING STALL |
| I | PAVEMENT STRIPING, REFER TO SHEET C5.2 |
| J | BICYCLE RACK PARKING RACK, REFER TO ARCHITECTURAL PLANS FOR DETAILS |
| K | DRIVE THRU ORDER BOARD, PRE-ORDER BOARD OR HEIGHT DETECTOR, REFER TO ARCHITECTURAL PLANS FOR DETAILS |
| L | CANOPY, REFER TO ARCHITECTURAL PLANS FOR DETAILS |
| M | PROPOSED PATIO, REFER TO ARCHITECTURAL PLANS FOR SEATING AND SPACING LAYOUT |

| | |
|----|--|
| N | PROPOSED TRASH CAN, REFER TO ARCHITECTURAL SITE DETAILS |
| O | BOLLARD IN CURB, REFER TO ARCHITECTURAL PLANS FOR DETAILS |
| P | HAND WASH STATION, REFER TO ARCHITECTURAL PLANS FOR DETAIL |
| P1 | INTEGRAL COLORED 860 GRAPHITE (IRON OXIDE) STANDARD DUTY CONCRETE PAVEMENT, SEE DETAIL ON SHEET C9.0 |
| P2 | MEDIUM DUTY ASPHALT PAVEMENT, SEE DETAIL ON SHEET C9.0 |
| P3 | HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL ON SHEET C9.0 |
| P4 | LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL ON SHEET C9.0 |
| R | DIRECTIONAL PAVEMENT MARKING, REFER TO SHEET C5.2 |
| S | CONCRETE SIDEWALK, 2.5' WIDTH ADJACENT TO PARKING SPACES |
| T | CONCRETE FLUME |
| U | PROPOSED SITE LIGHTING, REFER TO ELECTRICAL PLANS FOR DETAIL |
| U1 | RELOCATED STREET LIGHTING |
| V | RAISING CANE'S PYLON SIGN TO BE DESIGNED BY OTHERS |
| W | EXTEND EXISTING VALLEY GUTTER PER CITY OF ALBUQUERQUE STANDARD DWG 2420 |
| X | PUBLIC CONCRETE CURB TYPE SIDEWALK PER CITY OF ALBUQUERQUE STANDARD DWG 2430 |
| Y | ASPHALT PAVEMENT PER CITY OF ALBUQUERQUE STANDARD DWG 2405B |

SITE NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/MEP PLANS FOR SITE LIGHTING & ELECTRICAL PLAN.
- REFERENCE ARCHITECTURAL PLANS FOR DUMPSTER ENCLOSURE DETAILS.
- EXISTING STRUCTURES AND OR UTILITIES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY.
- SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY PRECISION SURVEYS, INC. DATED FEBRUARY 2021.
- ALL PROPOSED PAVING IN CITY R.O.W. AND EASEMENTS TO CONFORM TO CITY OF ALBUQUERQUE STANDARDS.
- PER FEMA MAP NUMBER 35001C0139G DATED SEPTEMBER 26, 2008, THIS SITE IS NOT WITHIN A FLOODPLAIN, BUT IS ADJACENT TO FLOOD ZONE AO
- BUILDING IS FIRE SPRINKLED.
- CITY OF ALBUQUERQUE SOLID WASTE DEPARTMENT IS NOT TO BE HELD LIABLE FOR ANY DAMAGE TO THE ASPHALT PAVEMENT.

COORDINATE AND DIMENSION INFORMATION

STATE PLANE ZONE: NM-C
GRID/GROUND COORDINATES: NAD83
TYPE: NAVD83
HORIZONTAL DATUM: 0°00'00.00"
ROTATION ANGLE: YES
MATCHES DRAWING UNITS: ALBUQUERQUE GEODETIC
CONTROL USED: GRID
REFERENCE SYSTEM: GRID
COMBINED SCALE FACTOR: GRID TO GROUND: 1.000348716
GROUND TO GRID: 0.999651406
DISTANCE ANNOTATION: GRID
BEARING ANNOTATION: N=0
BASE POINT FOR SCALING AND/OR ROTATION: E=0
ELEVATION TRANSLATION: ±0.00'
ELEVATIONS VALID: YES



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tel: 972-769-3100 Fax: 972-769-3101

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

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AND ASSOCIATES, INC.
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LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

| | | |
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| 1 | 11/12/2021 | 80% REVIEW SET |
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Sheet Title:

SITE KEYNOTE PLAN


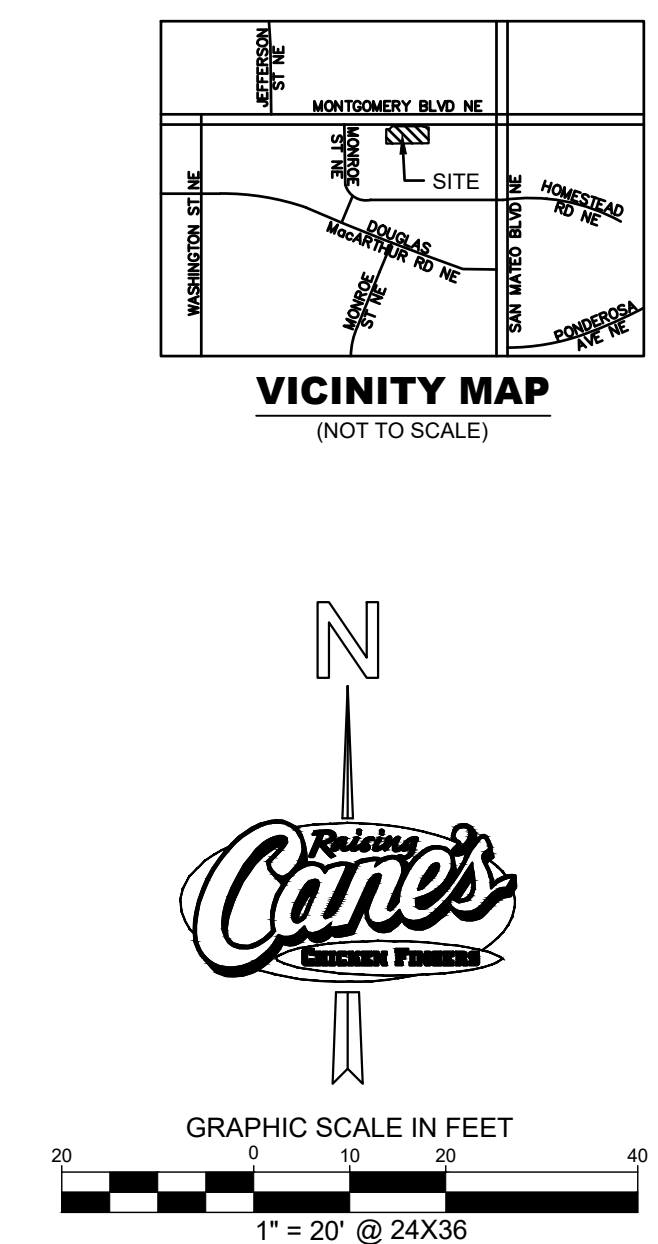
Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

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Raising Cane's
CHICKEN FINGERS

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineers' Information:

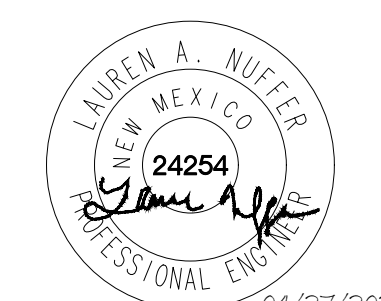
Kimley»Horn

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AND ASSOCIATES, INC.

13455 Noel Road
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|--------------------------|------------------|-----------------------------|--|
| Prototype : | | P4E-V-AV 2021 - 2.0 RELEASE | |
| Prototype Issue Date: | | 10.04.2021 | |
| Kitchen Issue Date: | | 08.02.2021 | |
| Design Bulletin Updates: | | -- | |
| Date Issued: | Bulletin Number: | | |
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2ND BLDG. RESUBMITTAL

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| Sheet Title: | |
| DIMENSION CONTROL PLAN | |
| Date: | 04.27.2022 |
| Project Number: | 090042000 |
| Drawn By: | LW/LN |
| Sheet Number: | |

C5.1

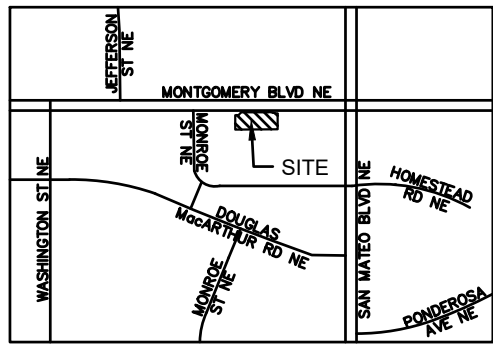
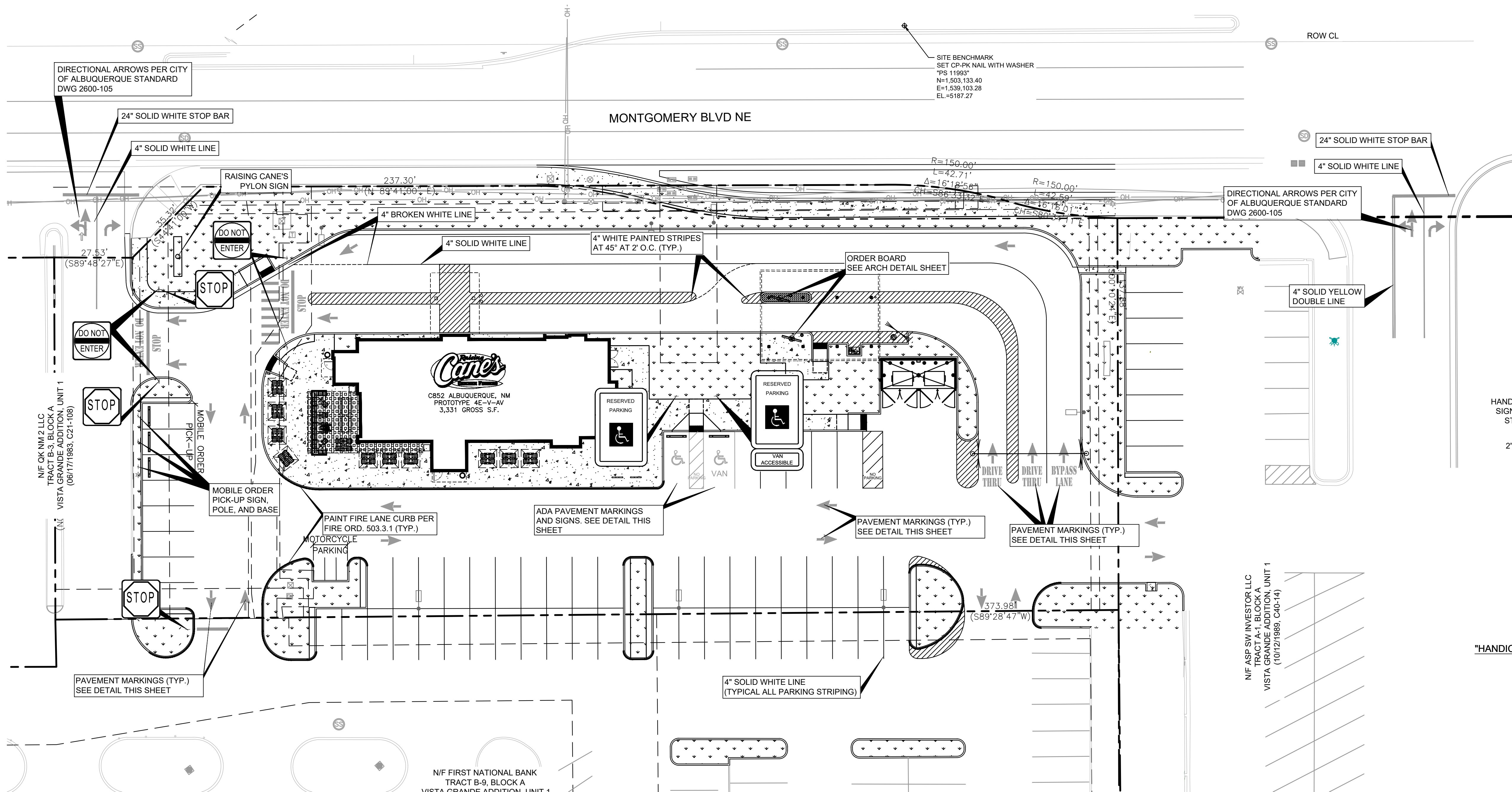
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INSET 1
SCALE: 1"=10'

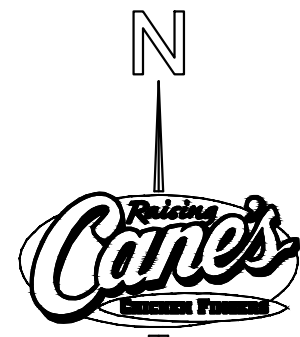


Know what's **below**.
Call before you dig.





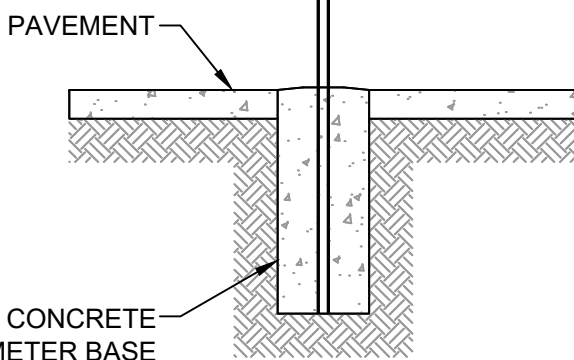
VICINITY MAP
(NOT TO SCALE)



GRAPHIC SCALE IN FEET
20 0 10 20 30 40
1" = 20' @ 24X36

0.080 GAUGE ALUMINUM
HANDICAPPED PARKING SIGN.
SIGN TO MEET ALL FEDERAL,
STATE AND LOCAL CODES.

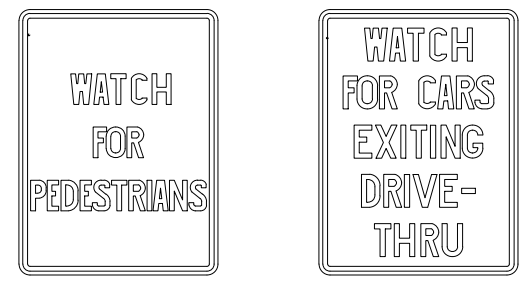
2" DIA. GALVANIZED STEEL
PIPE. PROVIDE WELDED,
WATERTIGHT CAP.



"HANDICAPPED PARKING" SIGN POST DETAIL
N.T.S.

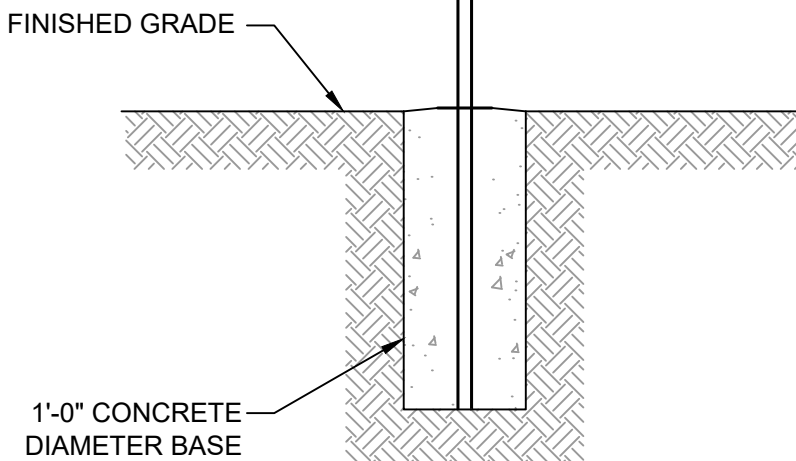
SITE LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPOSED CONCRETE CURB
- EXISTING CURB



STANDARD PARKING LOT SIGNS
N.T.S.

2" DIA. GALVANIZED STEEL
PIPE. PROVIDE WELDED,
WATERTIGHT CAP.

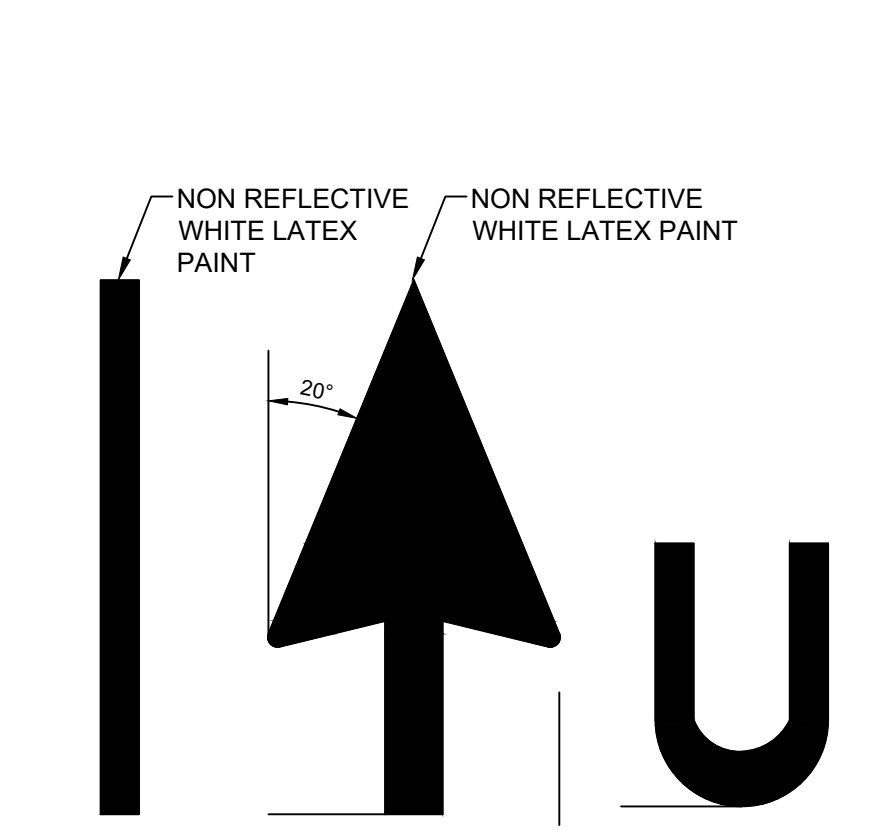


SIGN POST DETAIL
N.T.S.

NON REFLECTIVE
WHITE LATEX
PAINT

NOTE:
PAINT SHALL BE APPLIED AT A THICKNESS OF 22 WET MILS AND
15 DRY MILS.

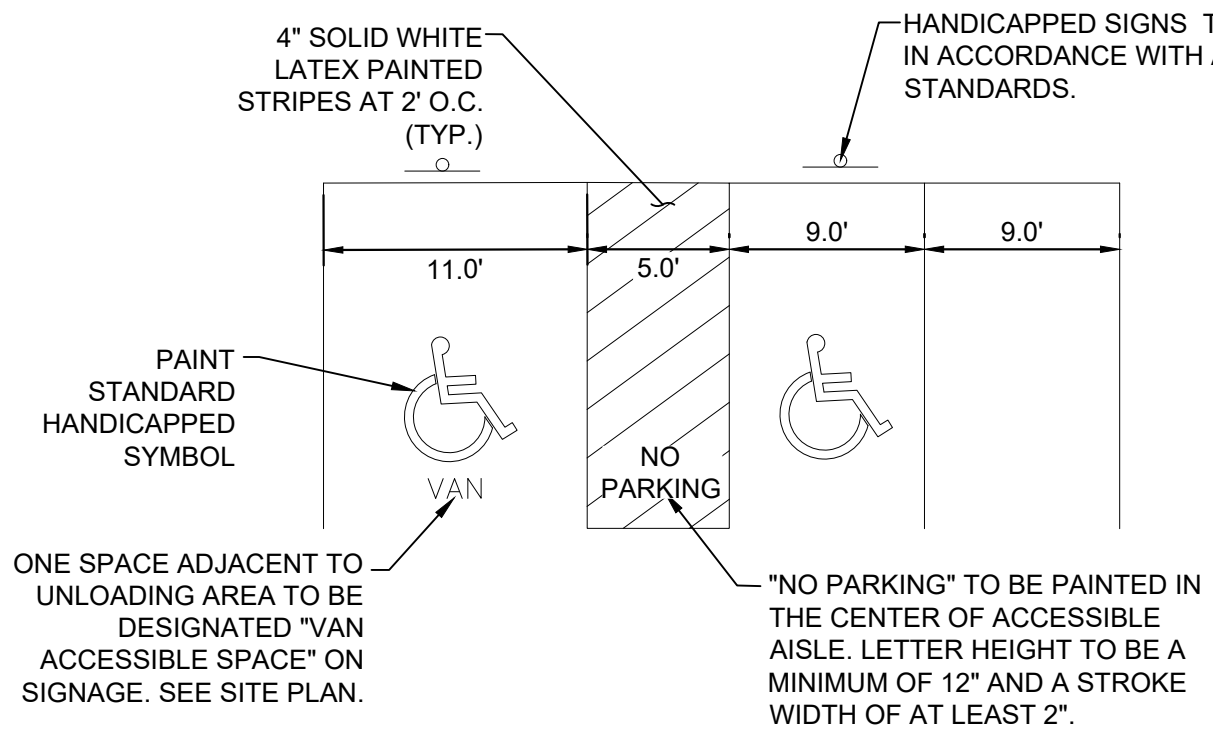
DO NOT ENTER /ONE WAY BAR STRIPING
N.T.S.



TYPICAL PAVEMENT STRIPING

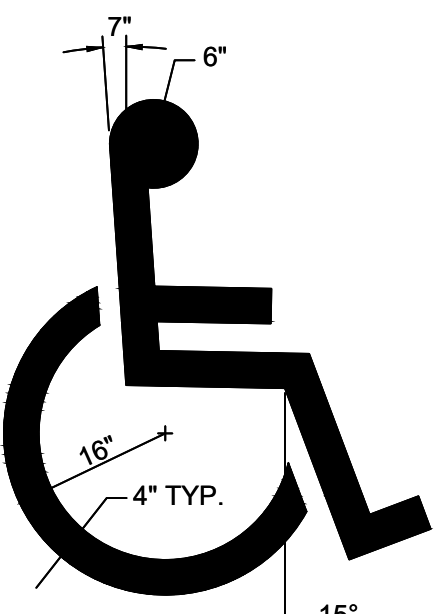
NOTE:
PAINT SHALL BE APPLIED AT A THICKNESS OF 22 WET MILS AND
15 DRY MILS.

TYPICAL PAVEMENT MARKINGS
N.T.S.



- NOTES:
- DIMENSIONS MAY VARY REFER TO SITE GEOMETRICS PLAN.
 - SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

ACCESSIBLE PARKING DETAIL
N.T.S.



NOTE:
1. ALL TRAFFIC MARKINGS TO BE WHITE LATEX AS PER
DIMENSIONS SHOWN.

HANDICAPPED PARKING SYMBOL DETAIL
N.T.S.



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Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

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Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

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Sheet Title:

**STRIPING AND
SIGNAGE PLAN**

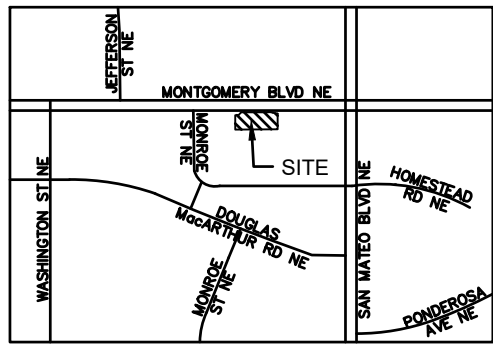
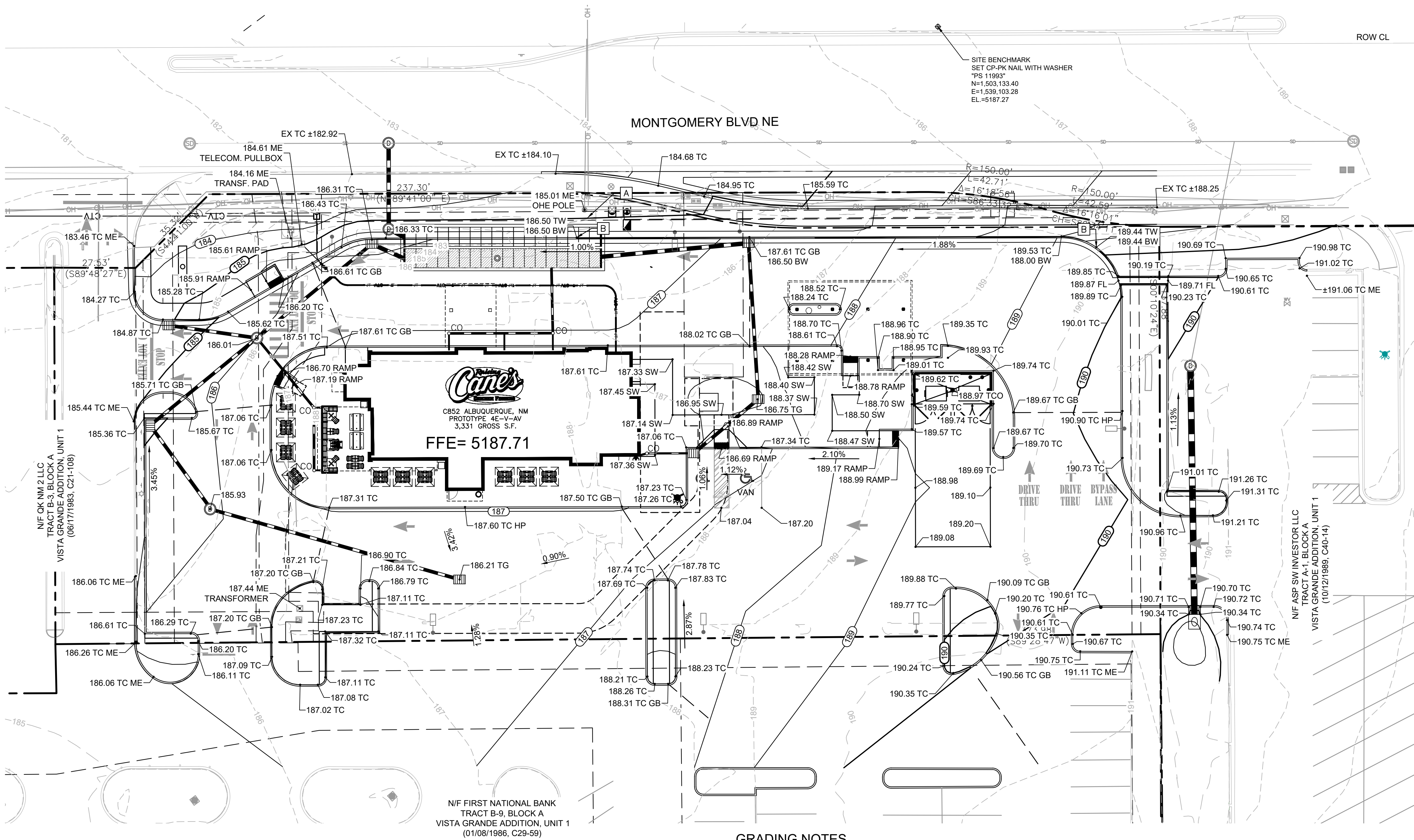
Date: 04.27.2022

Project Number: 090042000

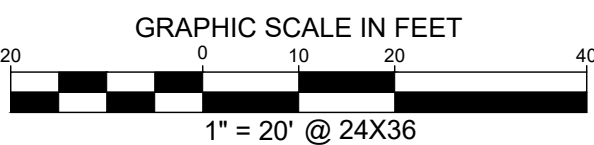
Drawn By: LW/LN

Sheet Number:

C5.2



VICINITY MAP
(NOT TO SCALE)



LEGEND

| | |
|-----|--------------------------------|
| --- | PROPOSED PROPERTY LINE |
| --- | ADJACENT PROPERTY LINE |
| --- | EXISTING CONTOUR |
| --- | PROPOSED CONTOUR |
| --- | PROPOSED FLOW ARROW WITH SLOPE |
| --- | PROPOSED SPOT ELEVATION |
| --- | EXISTING STORM INLET |
| GB | GRADE BREAK |
| HP | HIGH POINT |
| P | TOP OF PAVEMENT |
| SW | TOP OF SIDEWALK |
| ME | MATCH EXISTING ELEVATION |
| TG | TOP OF GRATE |
| FL | FLOW LINE |
| TCO | TOP OF CLEANOUT |
| TW | TOP OF WALL |
| BW | BOTTOM OF WALL |
| --- | PROPOSED RIDGE |

GRADING NOTES

- ADD 5000' TO ALL SPOT ELEVATIONS & CONTOUR LABELS.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND THE CITY/AHJ STANDARDS AND SPECIFICATIONS.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENTS TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE ARE ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVING.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING FOOTPRINT DIMENSIONS.
- CONTRACTOR SHALL REFER TO FINAL GEOTECH REPORT FOR BUILDING SUBGRADE AND SITE PREPARATION REQUIREMENTS.
- CONTRACTOR SHALL ADJUST EXISTING VALVES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH FINISHED GRADE.
- ALL ELEVATIONS ARE TOP OF PAVEMENT UNLESS NOTED OTHERWISE. TO GET TOP OF CURB ELEVATIONS ADD 6" TO THE ELEVATION SHOWN.
- GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO ADA STANDARDS. SLOPES SHALL NOT EXCEED 5% LONGITUDINAL SLOPE OR 2% CROSS SLOPE. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION.
- ANY PROPOSED CONTOURS SHOWN ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
- REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING GRADING OPERATIONS.
- ALL FILL TO BE PLACED SHALL BE IN ACCORDANCE WITH THE CURRENT APPLICABLE GEOTECHNICAL REPORT RECOMMENDATIONS.

GRADING CONSTRUCTION NOTES

- 3:1 CUT SLOPE BETWEEN EDGE OF EXISTING OVERHEAD ELECTRIC POLE AND TOP OF PROPOSED CURB, REFERENCE GRADING NOTE 5 THIS SHEET
- CONSTRUCT CUT-OFF WALL IN PLACE OF CURB PER CITY OF ALBUQUERQUE STANDARD DWG 2419C. TOP OF WALL = TOP OF CURB, ELEVATION PER DRAWING. BOTTOM OF WALL = BOTTOM OF EXPOSED WALL, BURY WALL A MINIMUM OF 18" BELOW FINISHED GRADE. MIN HEIGHT = 0", MAX HEIGHT = 18"



Know what's below.
Call before you dig.



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6800 Bishop Road, Plano, TX 75024
Tel: 972-763-3100 Fax: 972-763-3101

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ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

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GRADING PLAN

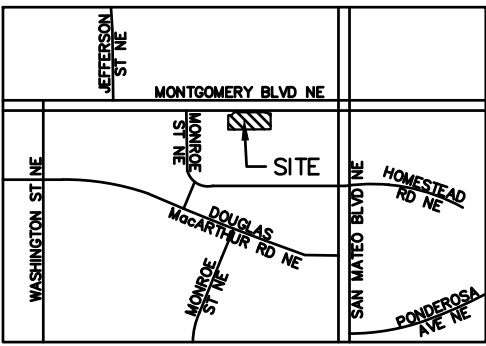
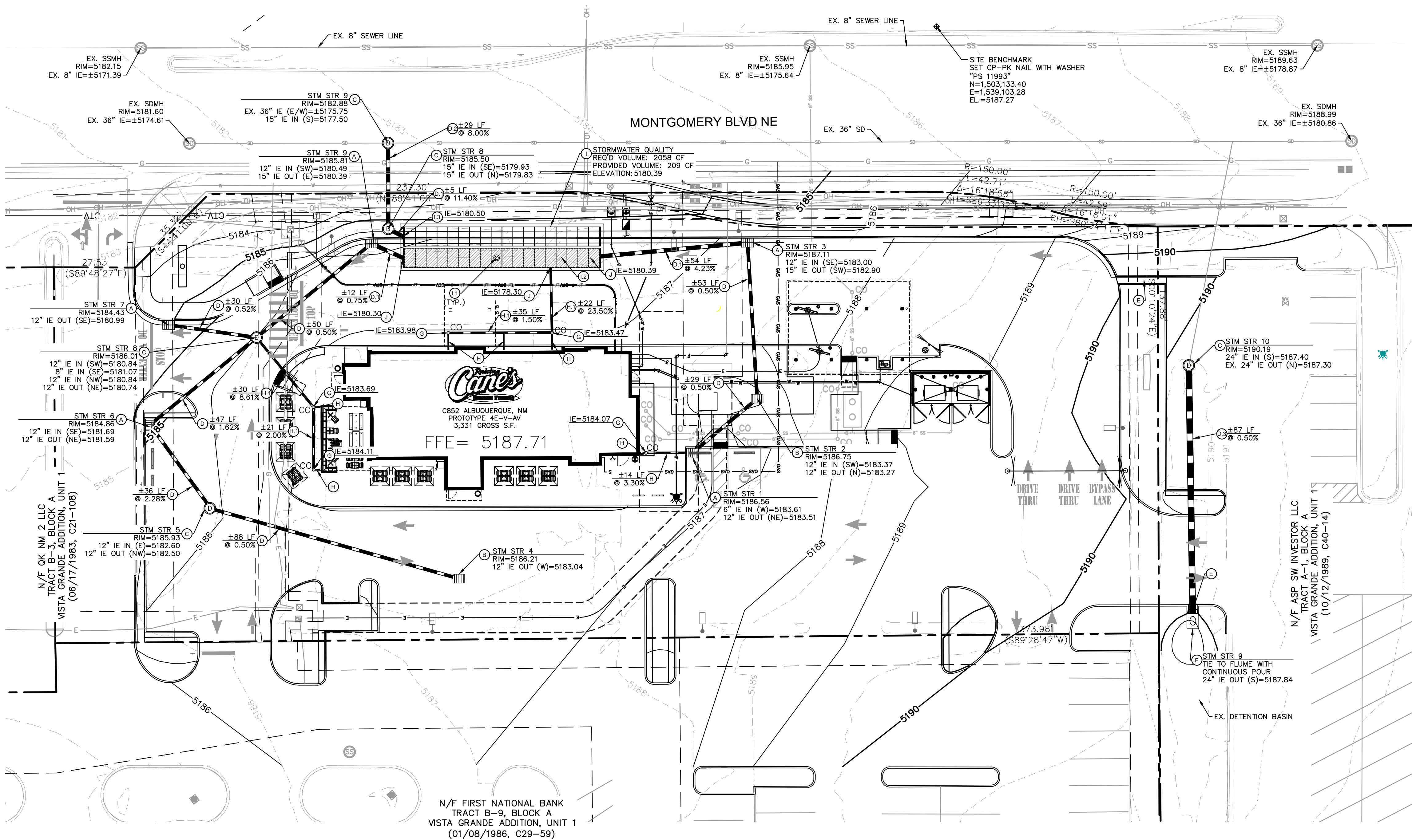
Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C6.0



VICINITY MAP
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UTILITY LEGEND

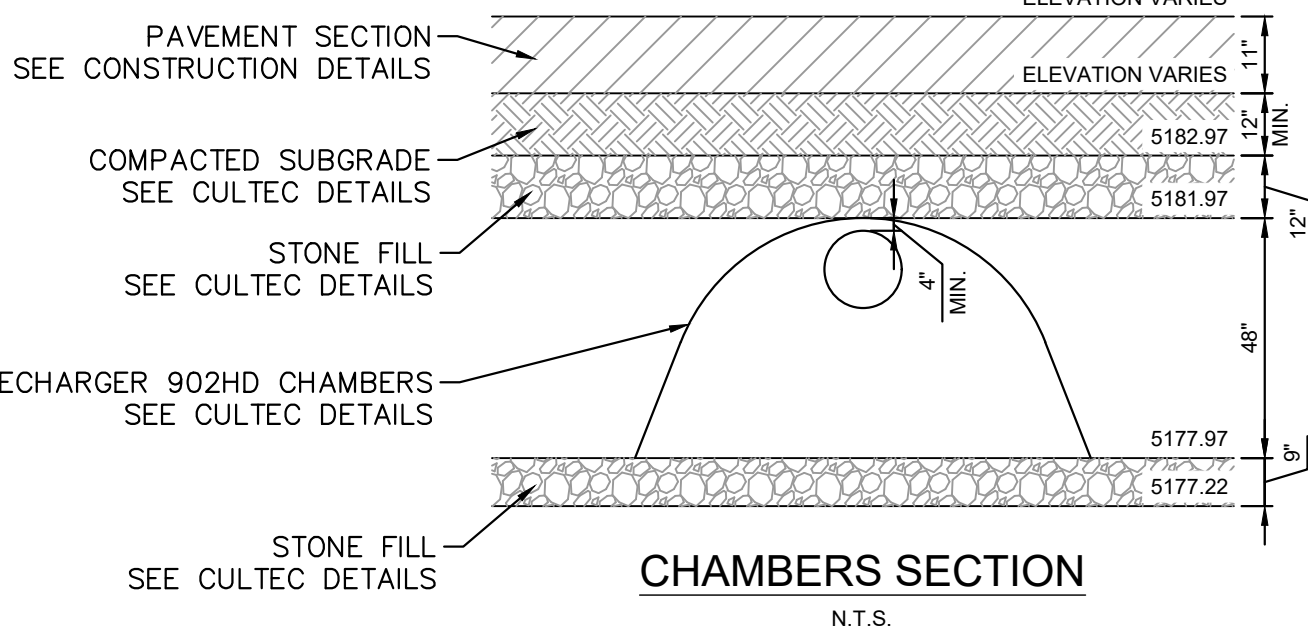
| | |
|-----|-------------------------------------|
| --- | PROPERTY LINE |
| --- | EXISTING EASEMENT |
| --- | PROPOSED EASEMENT |
| --- | EXISTING FIRE LANE |
| S | PROPOSED SANITARY SEWER LINE |
| W | PROPOSED WATER LINE |
| F | PROPOSED FIRE WATER LINE |
| GAS | PROPOSED UNDERGROUND GAS LINE |
| UGT | PROPOSED UNDERGROUND TELEPHONE LINE |
| --- | PROPOSED STORM DRAINAGE LINE |
| --- | EXISTING STORM DRAINAGE LINE |
| --- | EXISTING OVERHEAD POWER LINE |
| GAS | EXISTING GAS LINE |
| W | EXISTING WATER LINE |
| SS | EXISTING SANITARY SEWER LINE |
| ◆ | PROPOSED FIRE HYDRANT |
| ● | PROPOSED WATER METER |
| ○ | PROPOSED SEWER CLEANOUT |
| ⊕ | PROPOSED WATER VALVE |
| ⊕ | PROPOSED TEE |
| ⊕ | PROPOSED BEND |
| ⊕ | PROPOSED SEWER CLEAN OUT |
| ⊕ | EXISTING POWER POLE |
| ⊕ | EXISTING FIRE HYDRANT |
| ⊕ | EXISTING SANITARY SEWER MANHOLE |
| ⊕ | EXISTING SIGN |
| ⊕ | THRUST BLOCK |

STORM NOTES

1. REFER TO CITY STANDARD AND DETAILS FOR TRENCHING, BEDDING, BACKFILL, AND TRENCH COMPACTION REQUIREMENTS.
2. GUTTER TRANSITION ADJACENT TO TYPE "A" INLETS TO FOLLOW CITY OF ALBUQUERQUE STANDARD DETAILS, DWG NO. 2207.
3. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE CITY WITH REGARDS TO MATERIALS, INSTALLATION, AND UTILITY CROSSINGS.
4. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION AND ELEVATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY PERMITS, INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CITY CODES AND/OR UTILITY SERVICE COMPANIES.
6. CONTRACTOR IS RESPONSIBLE FOR PAVEMENT REPLACEMENT REQUIRED FOR ALL UTILITY INSTALLATIONS PER CITY STANDARDS.
7. THE AREA OF LAND TREATMENT D WITHIN THE PROJECT AREA IS 58,667 SF OR 1.35 AC.

STORM KEYNOTE LEGEND

| | |
|-----|---|
| (A) | STORM INLET TYPE "A" PER CITY OF ALBUQUERQUE STANDARD DETAILS, DWG. NO. 2201 |
| (B) | STORM INLET TYPE "D", SINGLE GRATE TYPE PER CITY OF ALBUQUERQUE STANDARD DETAILS, DWG. NO. 2206 |
| (C) | STORM MANHOLE TYPE "C" PER CITY OF ALBUQUERQUE STANDARD DETAILS, DWG. NO. 2208 |
| (D) | 12" Ø HDPE PIPE |
| (E) | 15" Ø HDPE PIPE |
| (F) | 15" Ø REINFORCED CONCRETE PIPE |
| (G) | 24" Ø REINFORCED CONCRETE PIPE |
| (H) | FLUME |
| (I) | SLOPE PAVED HEADWALL |
| (J) | ROOF DRAIN CLEANOUT |
| (K) | 6" HDPE ROOF LEADER @ 1.00% MIN. |
| (L) | 8" HDPE ROOF LEADER |
| (M) | CULTEC RECHARGER 902HD CHAMBERS OR APPROVED EQUIVALENT PRODUCT QUANTITY = 36, SEE SECTION THIS SHEET & CULTEC DETAILS |
| (N) | 9" STONE FILL BETWEEN CHAMBERS, 12" AROUND PERIMETER |
| (O) | INSPECTION PORT |
| (P) | ISOLATOR ROW |
| (Q) | CHAMBER OUTFALL POINT |
| (R) | TIE TO CHAMBER SYSTEM |



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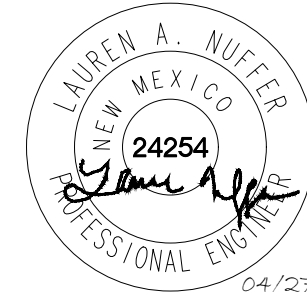
Engineer's Information:

Kimley»Horn

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Sheet Title:

STORM DRAINAGE
PLAN

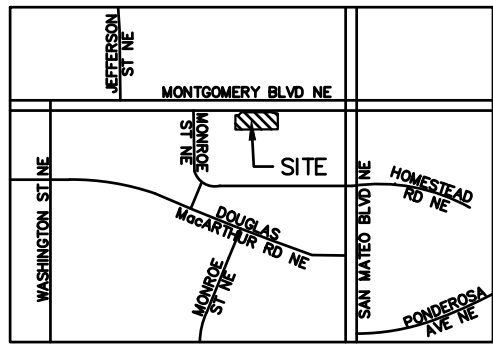
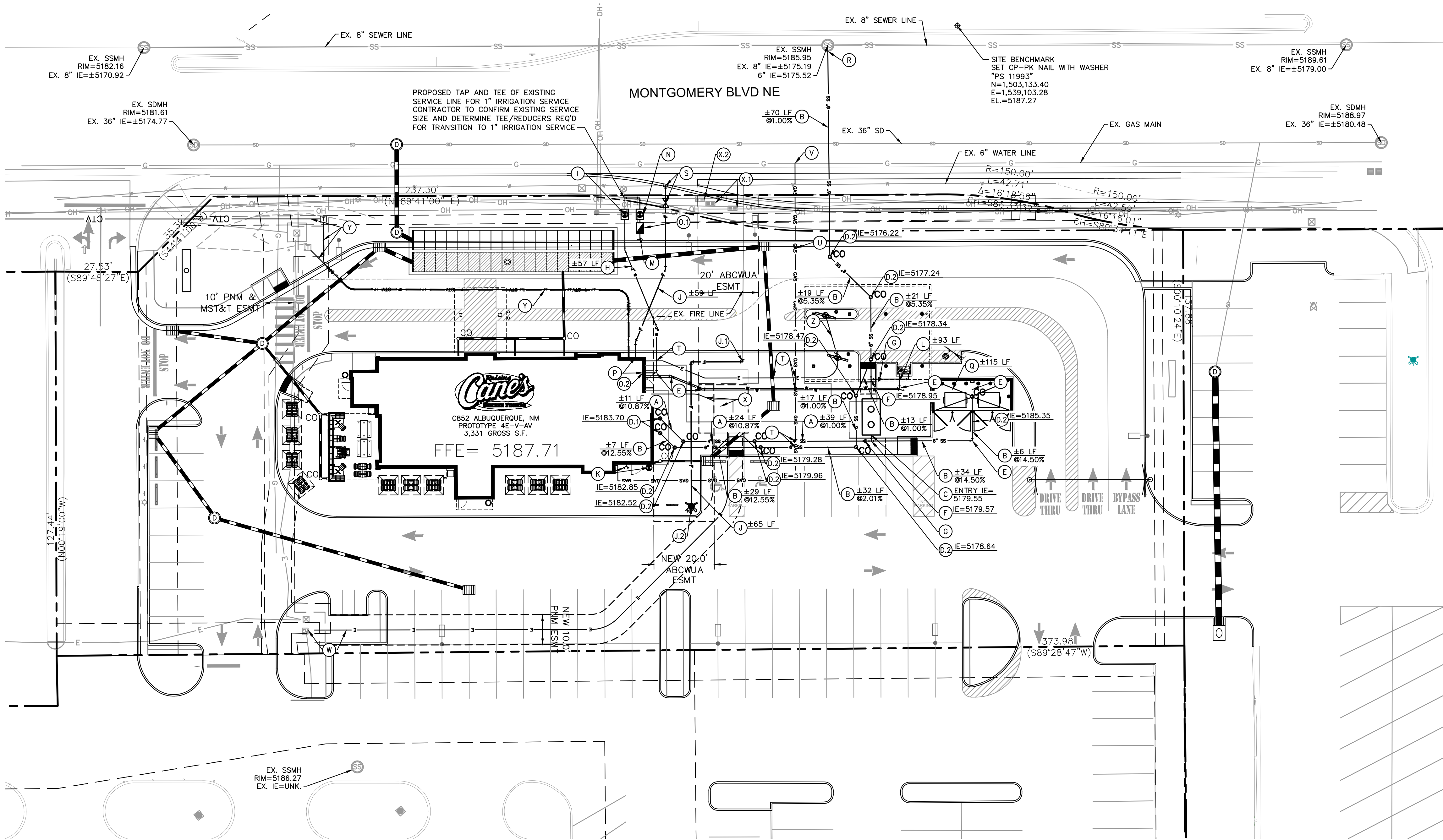
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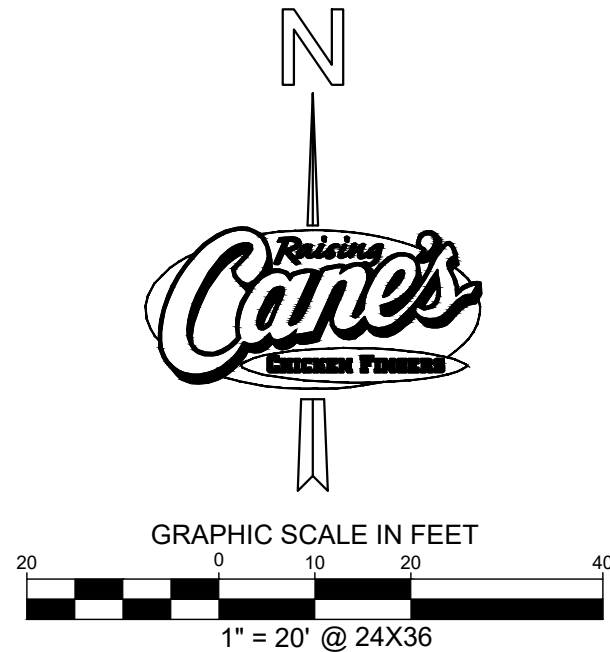
Drawn By: LW/LN

Sheet Number:

C7.0



VICINITY MAP
(NOT TO SCALE)



UTILITY LEGEND

| | |
|------|-------------------------------------|
| --- | PROPERTY LINE |
| --- | EXISTING EASEMENT |
| --- | PROPOSED EASEMENT |
| --- | EXISTING FIRE LANE |
| S | PROPOSED SANITARY SEWER LINE |
| W | PROPOSED WATER LINE |
| F | PROPOSED FIRE WATER LINE |
| GAS | PROPOSED UNDERGROUND GAS LINE |
| E | PROPOSED UNDERGROUND ELECTRIC LINE |
| T | PROPOSED UNDERGROUND TELEPHONE LINE |
| CATV | PROPOSED UNDERGROUND CABLE LINE |
| JT | PROPOSED JOINT TRENCH |
| --- | PROPOSED STORM DRAINAGE LINE |
| --- | EXISTING STORM DRAINAGE LINE |
| --- | EXISTING OVERHEAD POWER LINE |
| GAS | EXISTING GAS LINE |
| W | EXISTING WATER LINE |
| SS | EXISTING SANITARY SEWER LINE |
| ◆ | PROPOSED FIRE HYDRANT |
| ● | PROPOSED WATER METER |
| ○ | PROPOSED SEWER CLEANOUT |
| ⋈ | PROPOSED WATER VALVE |
| ⊥ | PROPOSED TEE |
| ↙↘ | PROPOSED BEND |
| °∞ | PROPOSED SEWER CLEAN OUT |
| ⊠ | EXISTING POWER POLE |
| ◆ | EXISTING FIRE HYDRANT |
| ⊙ | EXISTING SANITARY SEWER MANHOLE |
| + | EXISTING SIGN |

UTILITY NOTES

- SEE MEP PLANS FOR ALL UTILITY CONNECTIONS INTO BUILDING.
- REFER TO CITY STANDARD AND DETAILS FOR TRENCHING, BEDDING, BACKFILL, AND TRENCH COMPACTION REQUIREMENTS.
- REFER TO ARCHITECTURAL/MEP PLANS FOR LOCATION AND SIZING OF SLEEVES FOR FRANCHISE UTILITIES, IRRIGATION, ETC.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
PRIVATE: PVC SDR 35 PER ASTM D 3034
- WATER LINES SHALL BE AS FOLLOWS:
PUBLIC: PVC DR-18 (C-900) PER ASTM D 2241 WITH POLYWRAPPED CAST IRON OR DUCTILE IRON FITTINGS (CLASS 50)
PRIVATE (LARGER THAN 3 INCHES): PVC DR-18 (C-900) PER ASTM D 2241 WITH POLYWRAPPED CAST IRON OR DUCTILE IRON FITTINGS (CLASS 50)
PRIVATE (3 INCHES OR SMALLER): TYPE "K" SOFT COPPER, ASTM B88 OR PVC DR-18 (C-900) PER ASTM D 2241 OR ADS POTABLE WATER SERVICE TUBING (POLYFLEX - CTS PE4710)
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE CITY WITH REGARDS TO MATERIALS AND INSTALLATION OF UTILITIES AND WITH TCEQ GUIDELINES FOR UTILITY CROSSINGS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEFLECT ELECTRIC, GAS, CABLE, AND TELEPHONE CONDUIT AND PIPING AS REQUIRED TO AVOID UTILITY CONFLICTS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY PERMITS, INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CITY CODES AND/OR UTILITY SERVICE COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS IN REGARDS TO TAPS, HYDRANTS, VALVES, ETC.
- CONTRACTOR IS RESPONSIBLE FOR PAVEMENT REPLACEMENT REQUIRED FOR ALL UTILITY INSTALLATIONS PER CITY STANDARDS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4 FEET COVER ON ALL WATER LINES OR AS PER CITY REQUIREMENTS.
- POLYFLEX BY ADS TO BE USED IN PLACE OF COPPER WHERE ALLOWED BY CITY. CONTRACTOR TO VERIFY WITH CITY WHETHER IT CAN BE USED AND VERIFY WITH MEP REQUIRED INTERNAL DIAMETER FOR SUFFICIENT WATER FLOW TO BUILDING.

UTILITY KEYNOTE LEGEND

| | |
|---|---|
| A | PROPOSED 4" SDR 35 PVC SEWER PIPE, LENGTH AND SLOPE PER PLAN, TRENCH, BEDDING, AND BACKFILL PER CITY OF ALBUQUERQUE STD. SPECIFICATIONS SECTION 700 |
| B | PROPOSED 6" SDR 35 PVC SEWER PIPE, LENGTH AND SLOPE PER PLAN, TRENCH, BEDDING, AND BACKFILL PER CITY OF ALBUQUERQUE STD. SPECIFICATIONS SECTION 700 |
| C | PROPOSED GREASE TRAP LOCATION |
| D | CONNECT TO BUILDING SEWER, INVERT PER PLAN. REFERENCE MEP PLANS FOR CONTINUATION |
| E | PROPOSED SEWER CLEANOUT |
| F | PROPOSED BEND, CONCRETE BLOCKING REQUIRED PER CITY OF ALBUQUERQUE STD. DWG 2320 |
| G | PROPOSED 6"x6" TEE |
| H | PROPOSED 6"x4" REDUCER |
| I | PROPOSED 2" COPPER, TYPE K DOMESTIC WATERLINE, LENGTH PER PLAN, INSTALL TRENCH BEDDING AND BACKFILL PER CITY OF ALBUQUERQUE STD. SPECIFICATIONS SECTION 700 |
| J | REMOVE EXISTING WATER METER AND INSTALL NEW 1.5" DOMESTIC WATER METER PER CITY OF ALBUQUERQUE STD. DWG 2363 & 2367 |
| K | PROPOSED 6" CLASS 350 (CL350) DIP FIRE LINE WITH TRACER WIRE, LENGTH PER PLAN (4" MIN. COVER), TRENCH PER CITY OF ALBUQUERQUE STD. SPECIFICATIONS SECTION 700 |
| L | TIE TO AND EXTEND EX. 6" FIRE LINE WITH 90° DIP BEND |
| M | PROPOSED FIRE HYDRANT PER CITY OF ALBUQUERQUE STD. SPECIFICATIONS SECTION 801 |
| N | PROPOSED FDC & PIV. SEE SPRINKLER PLANS FOR DETAILS |
| O | PROPOSED 3" COLD WATER LINES TO CREW AMENITY STATION |
| P | PROPOSED 1" IRRIGATION SERVICE, REFER TO LANDSCAPE FOR CONTINUATION |
| Q | PROPOSED 1" IRRIGATION METER, REFER TO LANDSCAPE |
| R | PROPOSED IRRIGATION BFP, REFER TO LANDSCAPE |
| S | PROPOSED DOMESTIC RPBA INTERNAL TO BUILDING, SEE MEP PLANS FOR DETAILS |
| T | BUILDING WATER & FIRE CONNECTION, REFER TO MEP AND SPRINKLER PLANS FOR CONTINUATION |
| U | PROPOSED 3" EACH H/C WATER TO DUMPSTER WITH RPZ VALVE, REFER TO MEP PLANS |
| V | CORE EXISTING SSMH FOR TIE-IN PER CITY OF ALBUQUERQUE STD. DWG 2118 |

UTILITY KEYNOTE LEGEND

| | |
|----|--|
| S | INSTALL 6"x6" TAPPING SLEEVE AND GATE VALVE WITH THRUST BLOCK, VALVE BOX PER CITY OF ALBUQUERQUE STD. DWGS 2326 AND 2329 |
| T | WET UTILITY CROSSING, MAINTAIN 2' MINIMUM VERTICAL SEPERATION |
| U | PROPOSED GAS SERVICE BY OTHERS |
| V | CONNECTION TO EXISTING GAS MAIN BY OTHERS |
| W | CONNECTION TO EXISTING UNDERGROUND ELECTRIC AND PRIMARY SERVICE TO TRANSFORMER BY OTHERS |
| X | PAD-MOUNTED TRANSFORMER & SECONDARY ELECTRICAL SERVICE, SEE ELECTRICAL FOR DETAILS |
| Y | RELOCATED ELECTRICAL PULLBOXES |
| Z | RESET EXISTING ELECTRICAL PULLBOX AT FINISHED GRADE |
| AA | TELECOM/CATV SERVICE, SEE E4 PLANS |
| AB | CONDUIT TO MENU BOARDS, SEE ELECTRICAL FOR DETAILS |

RESPONSIBILITY OF FRANCHISE UTILITY SERVICE

| | UTILITY COMPANY | GENERAL CONTRACTOR |
|---|-----------------|--------------------|
| ELECTRIC SERVICE | | |
| PRIMARY CONDUIT TO TRANSFORMER | X | --- |
| PRIMARY CONDUCTORS | X | --- |
| TRANSFORMER PAD | --- | --- |
| TRANSFORMER ON POLE | X | --- |
| SECONDARY CONDUIT TO METER | --- | X |
| SECONDARY CONDUCTORS TO METER | --- | X |
| SECONDARY CONDUIT FROM METER TO MAIN PANEL | --- | X |
| SECONDARY CONDUCTORS FROM METER TO MAIN PANEL | --- | X |
| GAS SERVICE | | |
| SERVICE FROM ROW TO BUILDING | X | --- |
| CONDUIT FROM ROW TO BUILDING | --- | X |
| INSTALL GAS METER | X | --- |
| TELEPHONE SERVICE | | |
| SERVICE FROM ROW TO BUILDING | X | --- |
| CONDUIT FROM ROW TO BUILDING | --- | X |

NOTE: IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THIS INFORMATION IMMEDIATELY UPON START OF CONSTRUCTION.

WATER METER & SEWER SCHEDULE

| I.D. | TYPE | SIZE | NO. | SEWER |
|------|------------|------|-----|-------|
| 1 | DOMESTIC | 1.5" | 1 | 6" |
| 2 | IRRIGATION | 1" | 1 | --- |



CAUTION!!

CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele 972-769-3100 Fax 972-769-3101

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

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AND ASSOCIATES, INC.

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LIZ.WILLMOT@KIMLEY-HORN.COM

Professional of Record:



Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

| | | |
|---|------------|----------------------|
| 1 | 11/12/2021 | 80% REVIEW SET |
| 2 | 11/30/2021 | 1ST BLDG SUBMITTAL |
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Sheet Title:

UTILITY PLAN

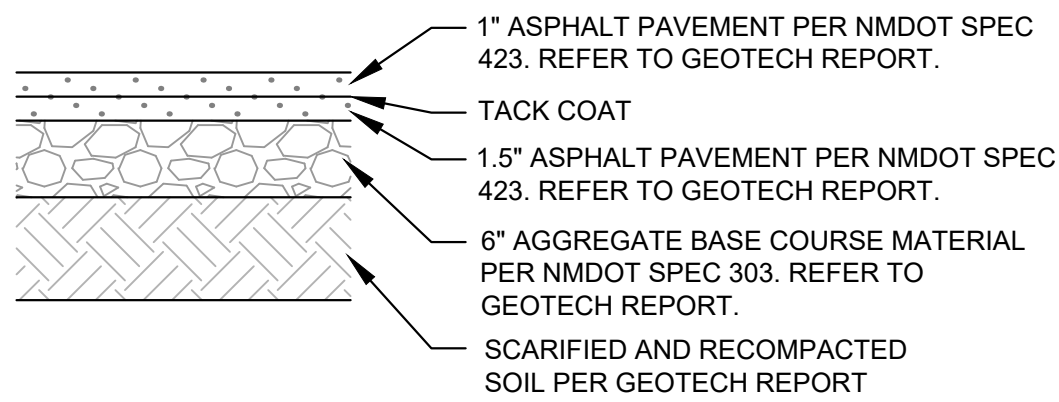
Date: 04.27.2022

Project Number: 090042000

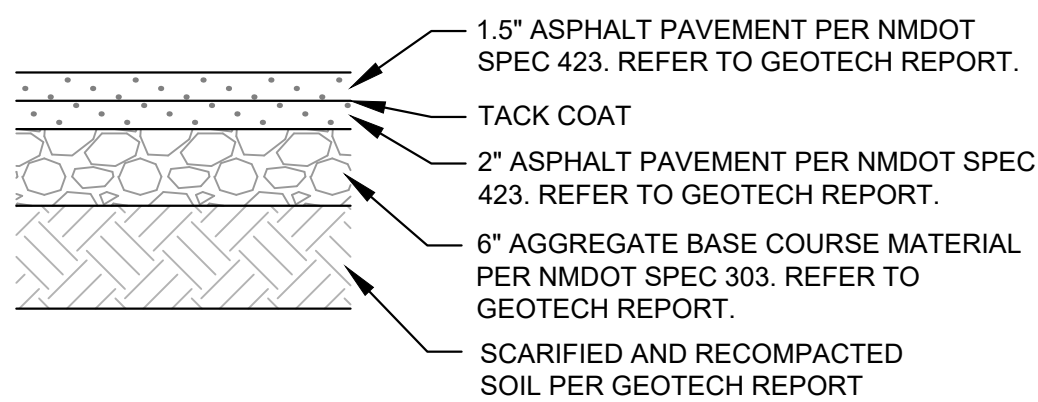
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Sheet Number:

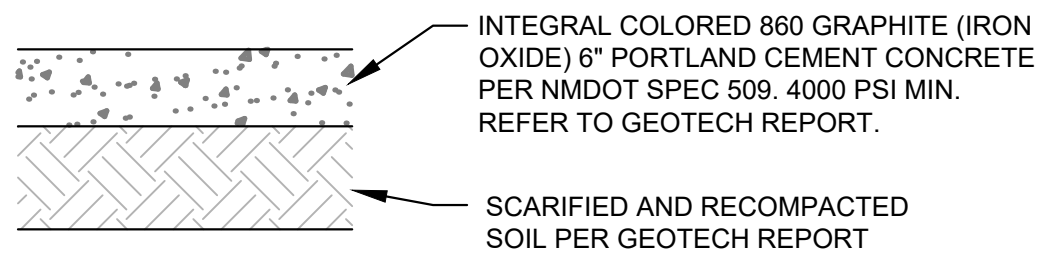
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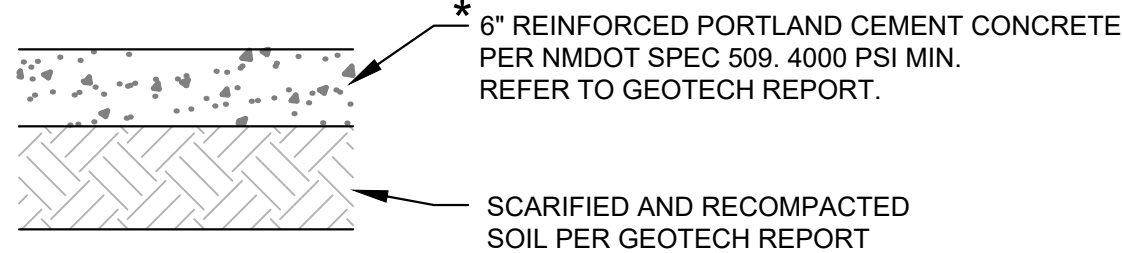
LIGHT DUTY ASPHALT PAVEMENT SECTION



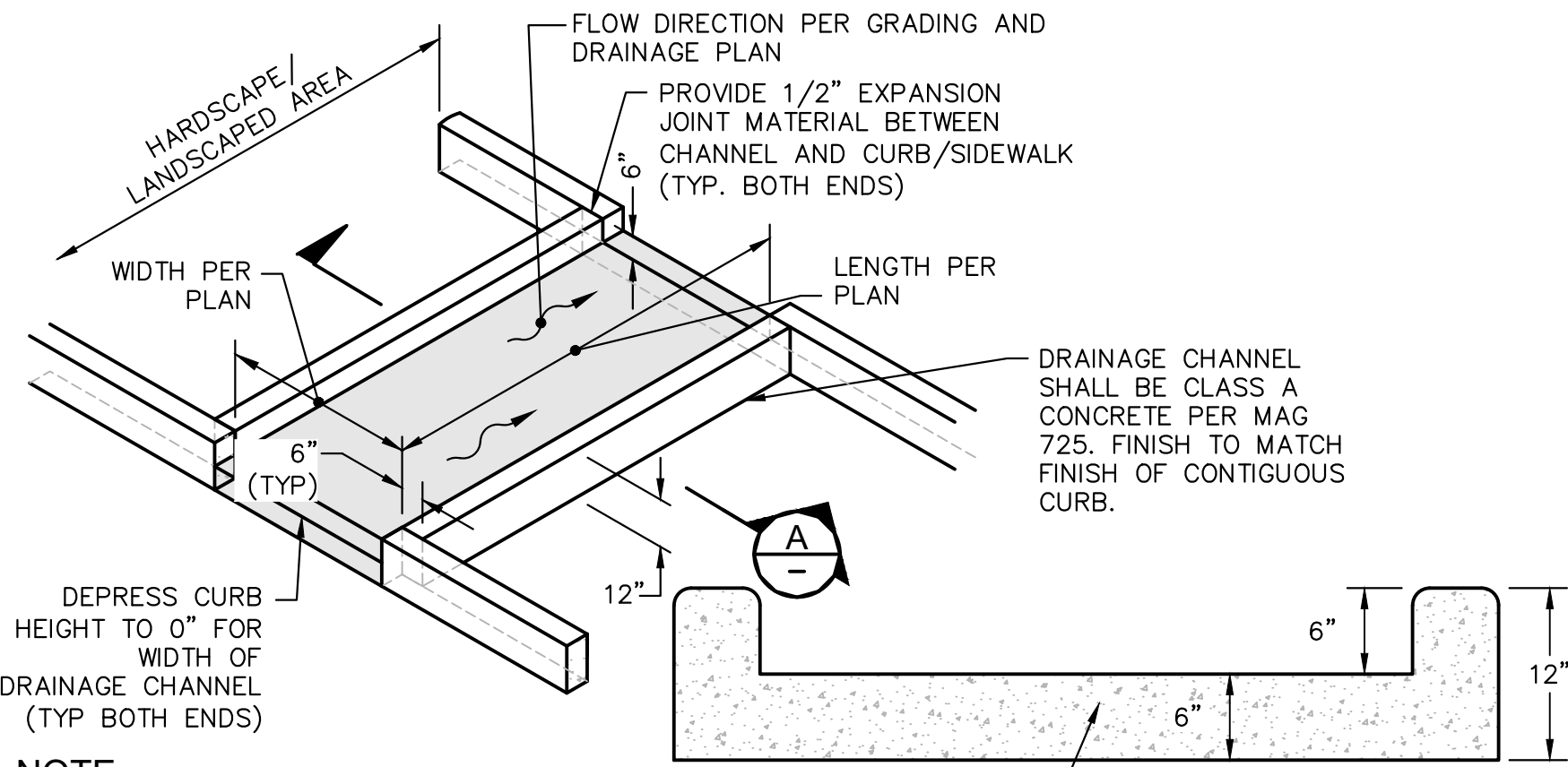
MEDIUM DUTY ASPHALT PAVEMENT SECTION



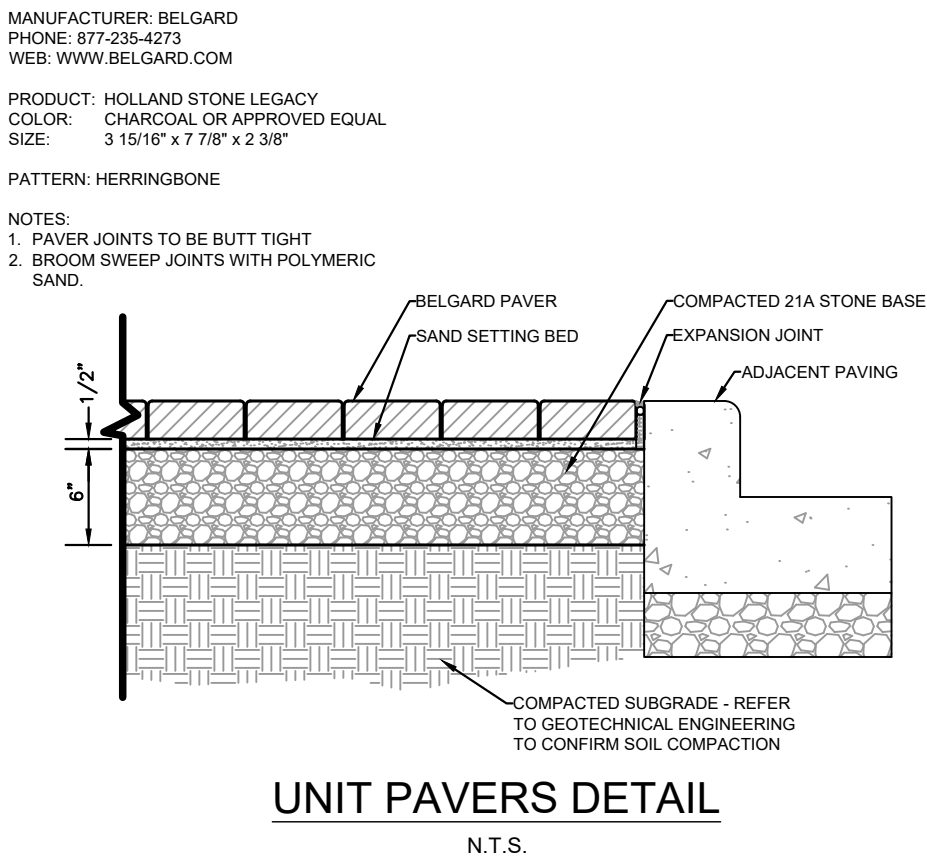
INTEGRAL COLORED
STANDARD DUTY CONCRETE PAVEMENT SECTION



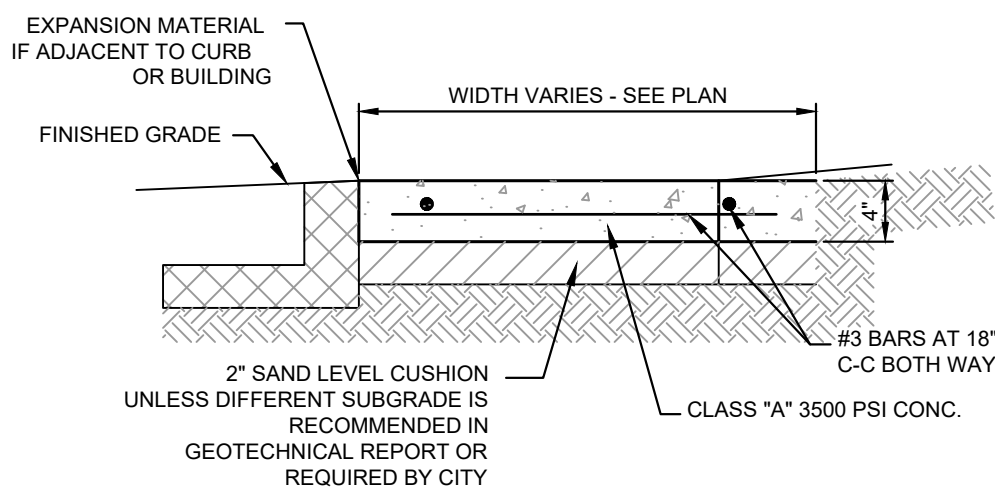
HEAVY DUTY CONCRETE PAVEMENT SECTION



CONCRETE DRAINAGE CHANNEL DETAIL
N.T.S.



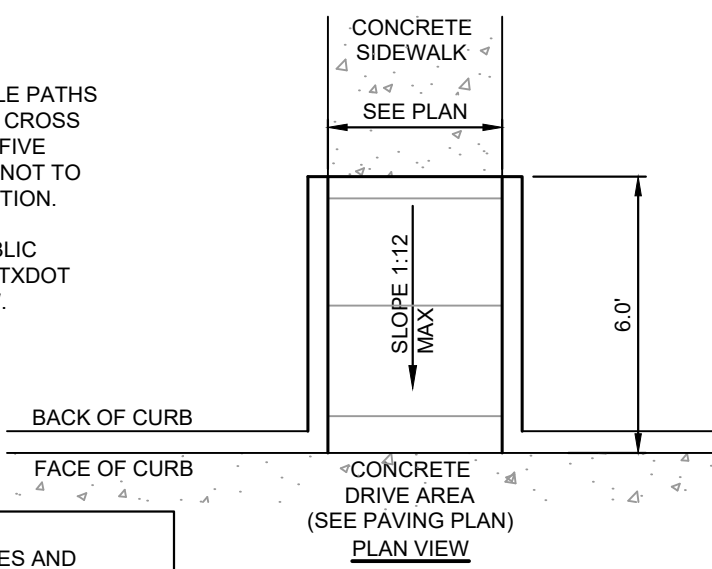
UNIT PAVERS DETAIL
N.T.S.



- NOTES:
1. PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE
 2. SPACE CONTROL JOINT UNIFORMLY AT INTERVALS EQUAL TO THE WALK WIDTH OR AS SHOWN ON ARCHITECTURAL PLANS.
 3. PLACE PREMOLDED EXPANSION JOINT MATERIAL AROUND ALL STRUCTURES IN NEW WALK ALONGSIDE ALL ADJACENT BUILDINGS AND ABUTTING STRUCTURES TO THE NEW CONCRETE SIDEWALK
 4. SEAL EXPANSION & CONTRACTION JOINTS WITH AN APPROVED TYPE SEALANT.
 5. SIDEWALK PAVEMENT WHERE PATIO FURNITURE IS TO BE PLACED MUST BE 4000 PSI.

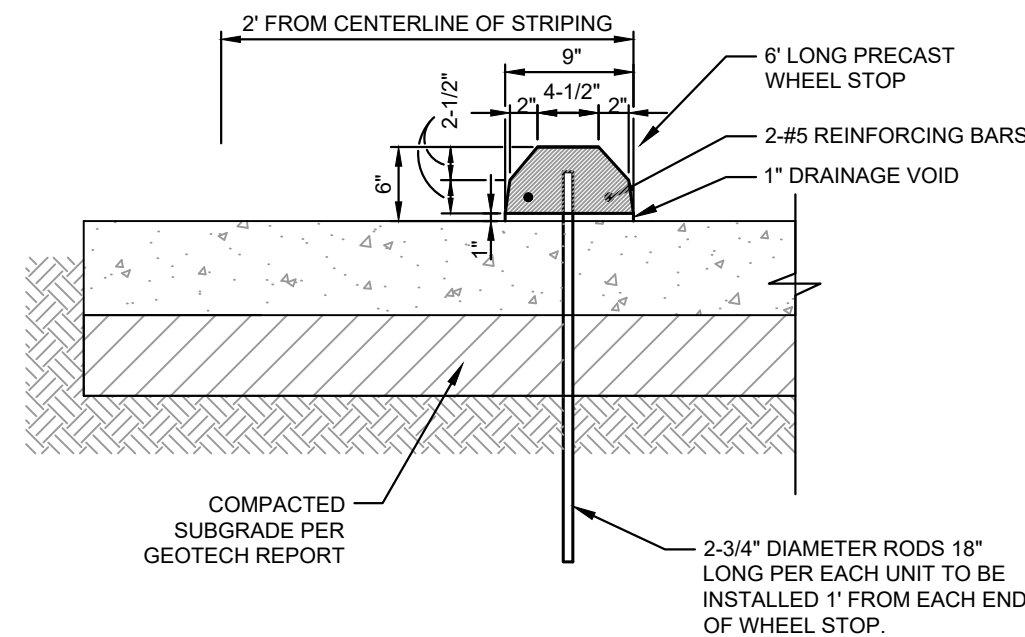
NOTE:
REFER TO GEOTECH REPORT FOR
FURTHER INFORMATION.

- NOTES:
1. RAMP SHALL HAVE A LIGHT BROOM SWEEP FINISH PER ADA/TAS REQUIREMENTS.
 2. TAPERED CURB AND GUTTER SECTION. MAINTAIN GUTTER FLOWLINE AS REQUIRED.
 3. RAMP SHALL BE CONSTRUCTED OF 4" THICK, 3500 PSI CONCRETE WITH 6"x6" W2.9XW2.9 WELDED WIRE REINFORCEMENT.
 4. MAXIMUM SLOPE FOR HANDICAPPED ACCESSIBLE PATHS ARE 5% WITH A MAXIMUM CROSS SLOPE OF 2%. THE FIRST FIVE FEET FROM THE DOOR IS NOT TO EXCEED 2% IN ANY DIRECTION.
 5. NOT FOR USE WITHIN PUBLIC RIGHT OF WAY. SEE CITY/TXDOT DETAILS FOR USE IN ROW.



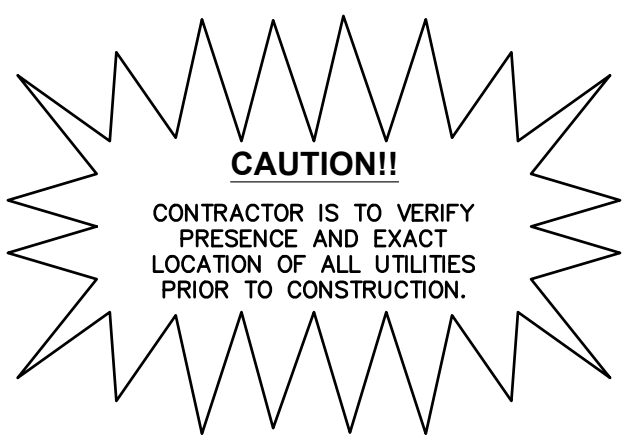
NOTE:
ALL ACCESSIBLE ROUTES AND
BARRIER FREE RAMPS MUST COMPLY
WITH NEW MEXICO ACCESSIBILITY
STANDARDS, LATEST EDITION.

BARRIER FREE RAMP DETAIL
N.T.S.



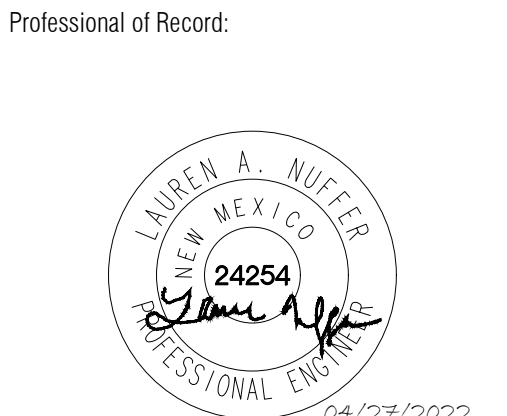
NOTE:
1. PRE-CAST CONCRETE OR PLASTIC WHEEL STOPS MAY BE USED WITH CANE'S
CONSTRUCTION MANAGERS APPROVAL.

PRECAST CONCRETE WHEEL STOP DETAIL
N.T.S.



Store:
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ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

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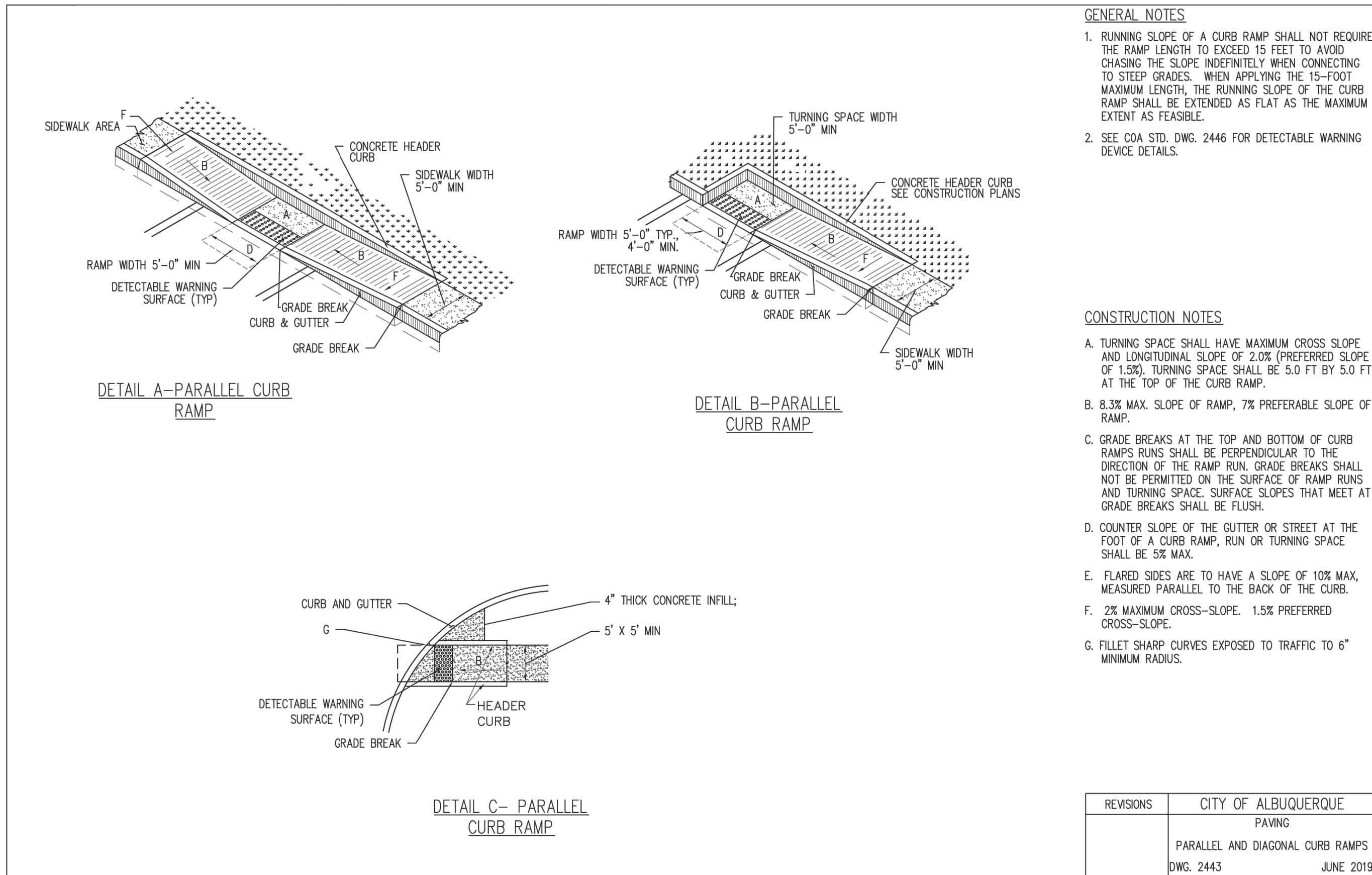
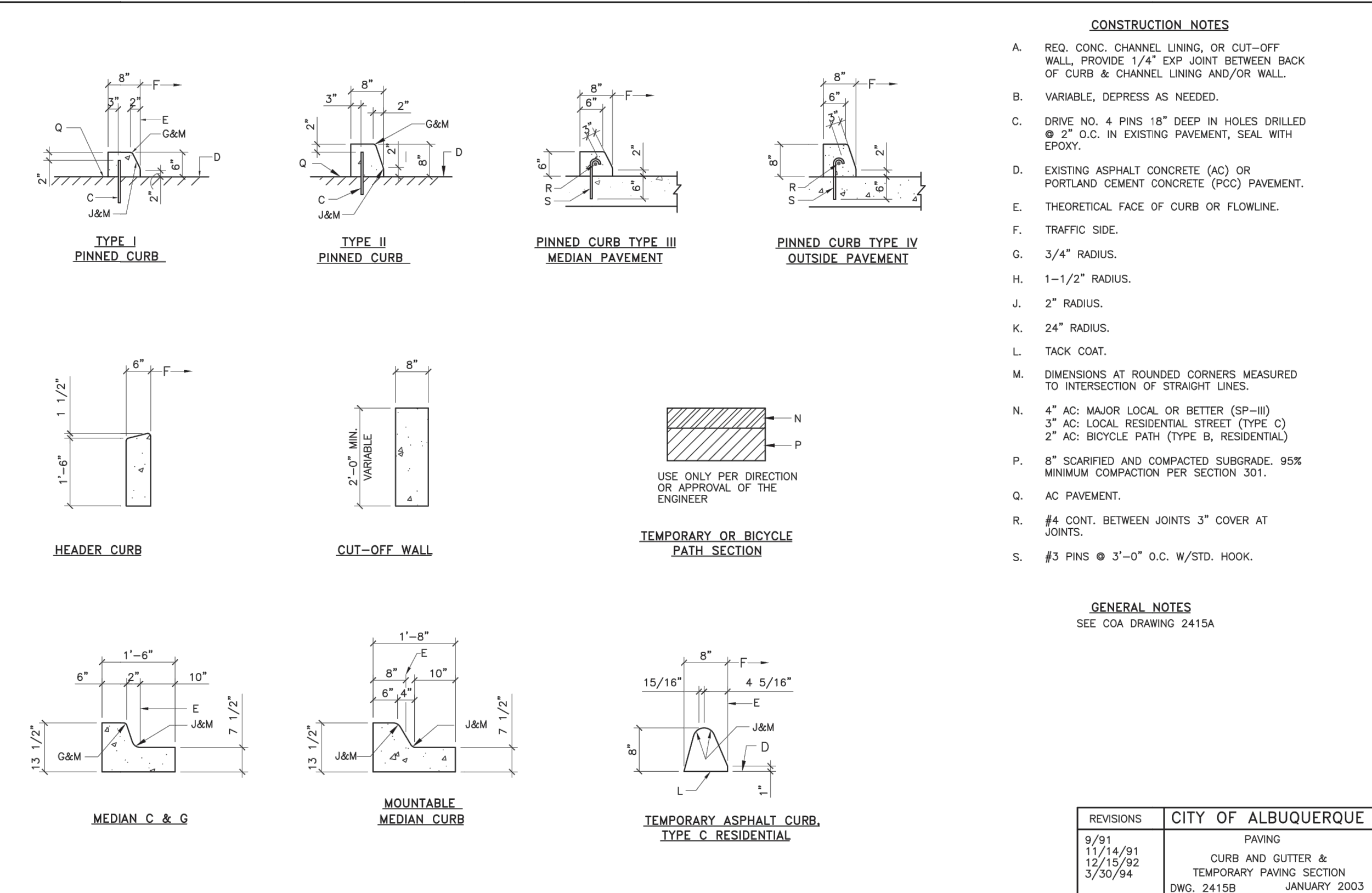
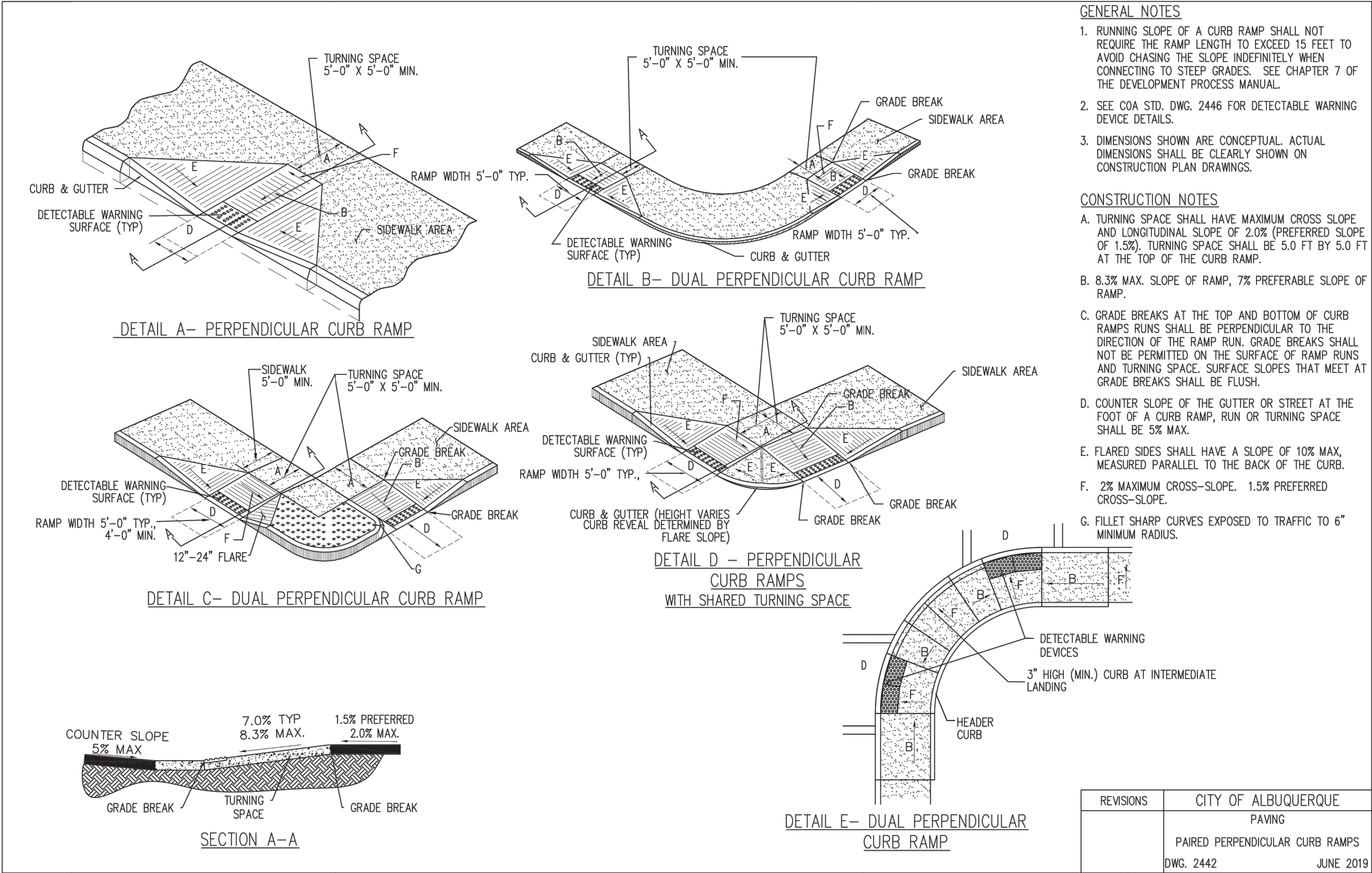
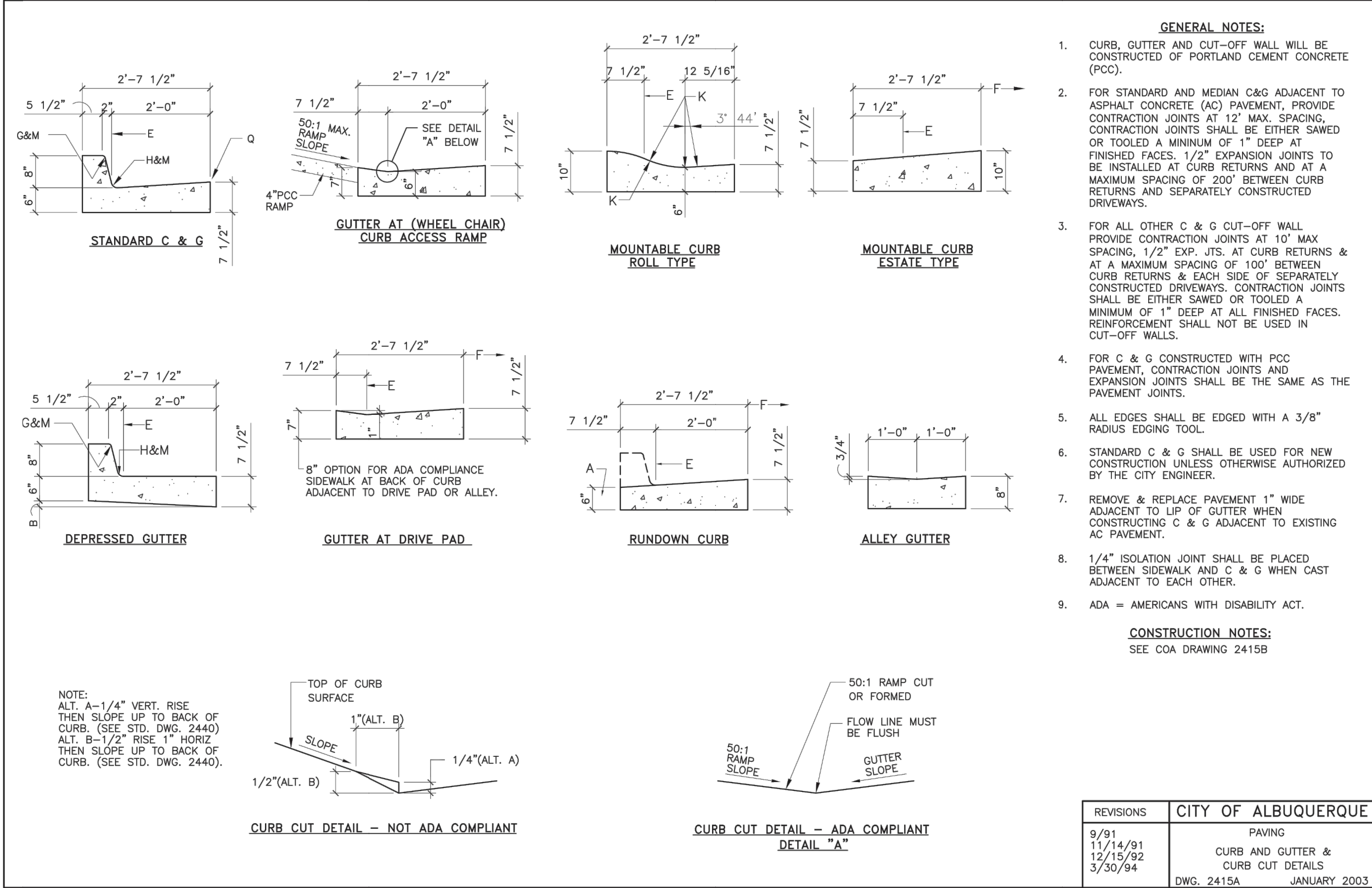
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| Prototype Issue Date: | 10.04.2021 |
| Kitchen Issue Date: | 08.02.2021 |
| Design Bulletin Updates: | -- |
| Date Issued: | Bulletin Number: |
| -- | -- |

2ND BLDG. RESUBMITTAL

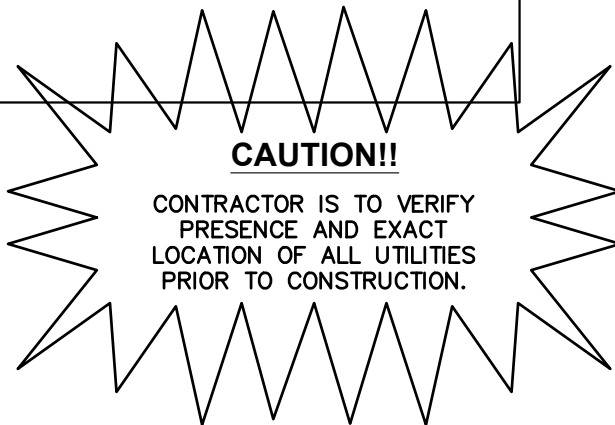
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|-----------------|-------------------------|
| Sheet Title: | CONSTRUCTION DETAILS |
| Date: | 04.27.2022 |
| Project Number: | 090042000 |
| Drawn By: | LW/LN |
| Sheet Number: | |

C9.0



Know what's below.
Call before you dig.



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele 972-769-3100 Fax 972-769-3101

Store:
Montgomery & San Mateo
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Engineer's Information:

Kimley»Horn

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Professional of Record:



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Sheet Title:

CITY CONSTRUCTION DETAILS

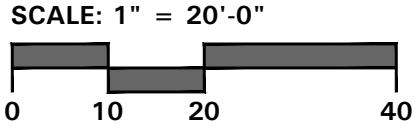
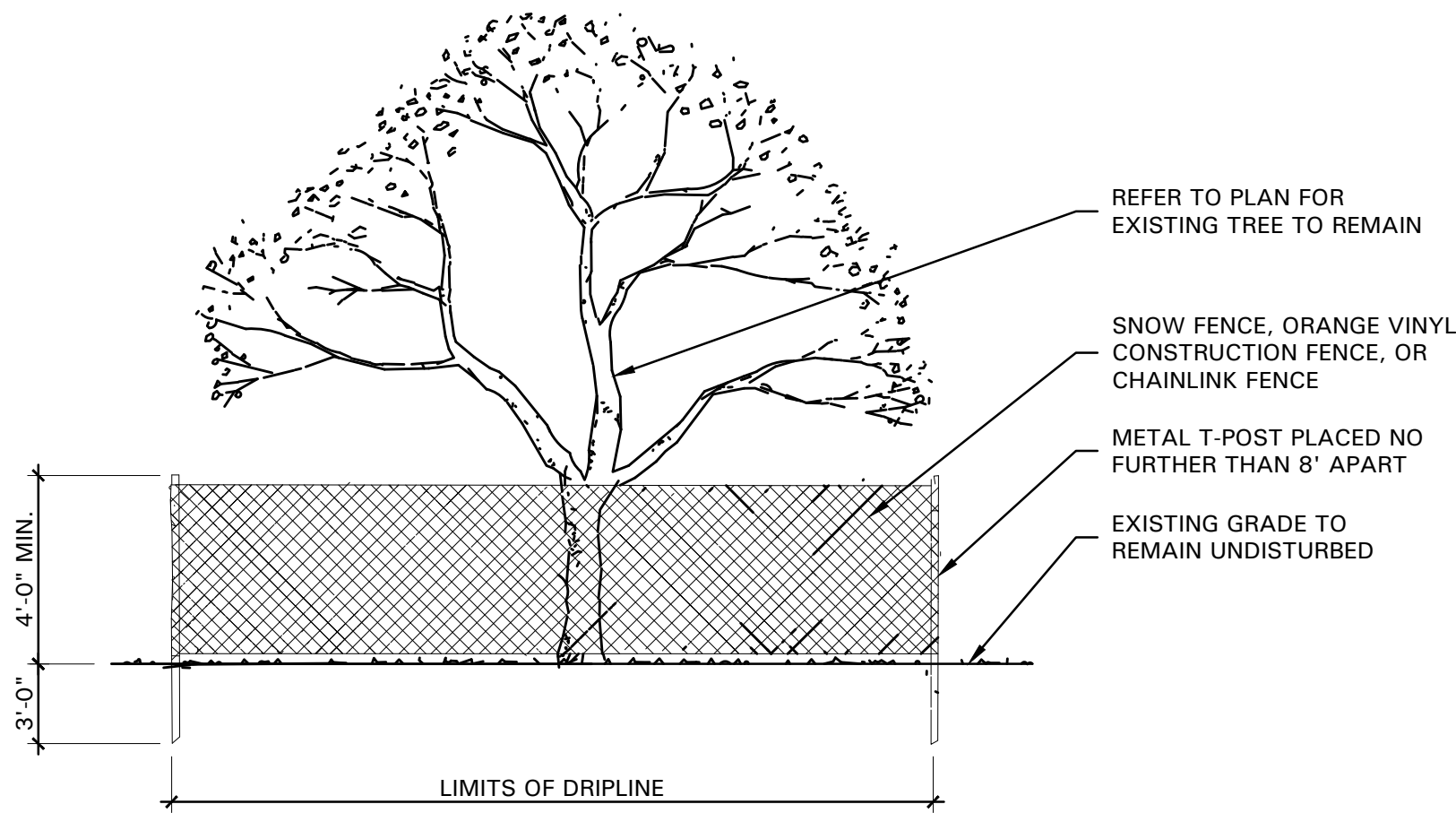
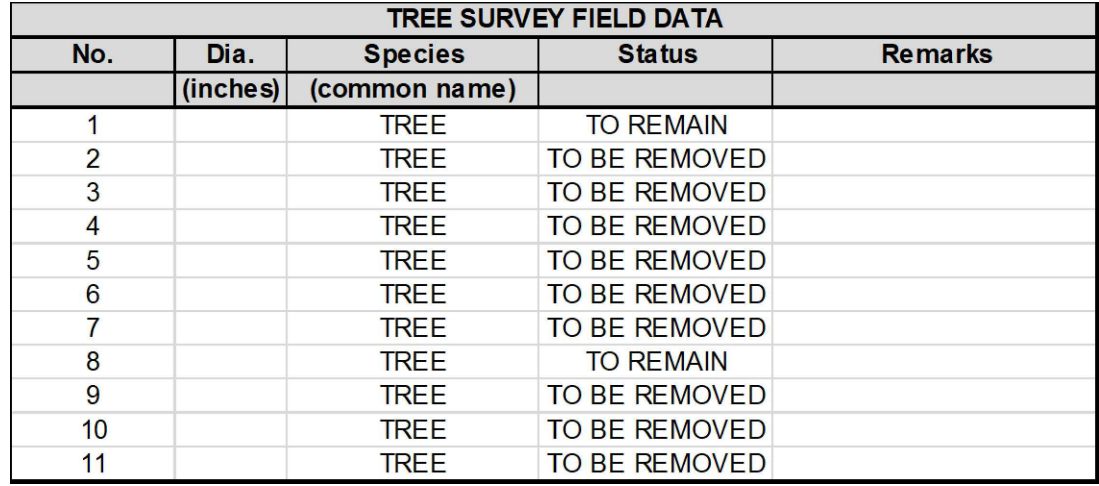
Date: 04.27.2022

Project Number: 090042000

Drawn By: LW/LN

Sheet Number:

C10.0



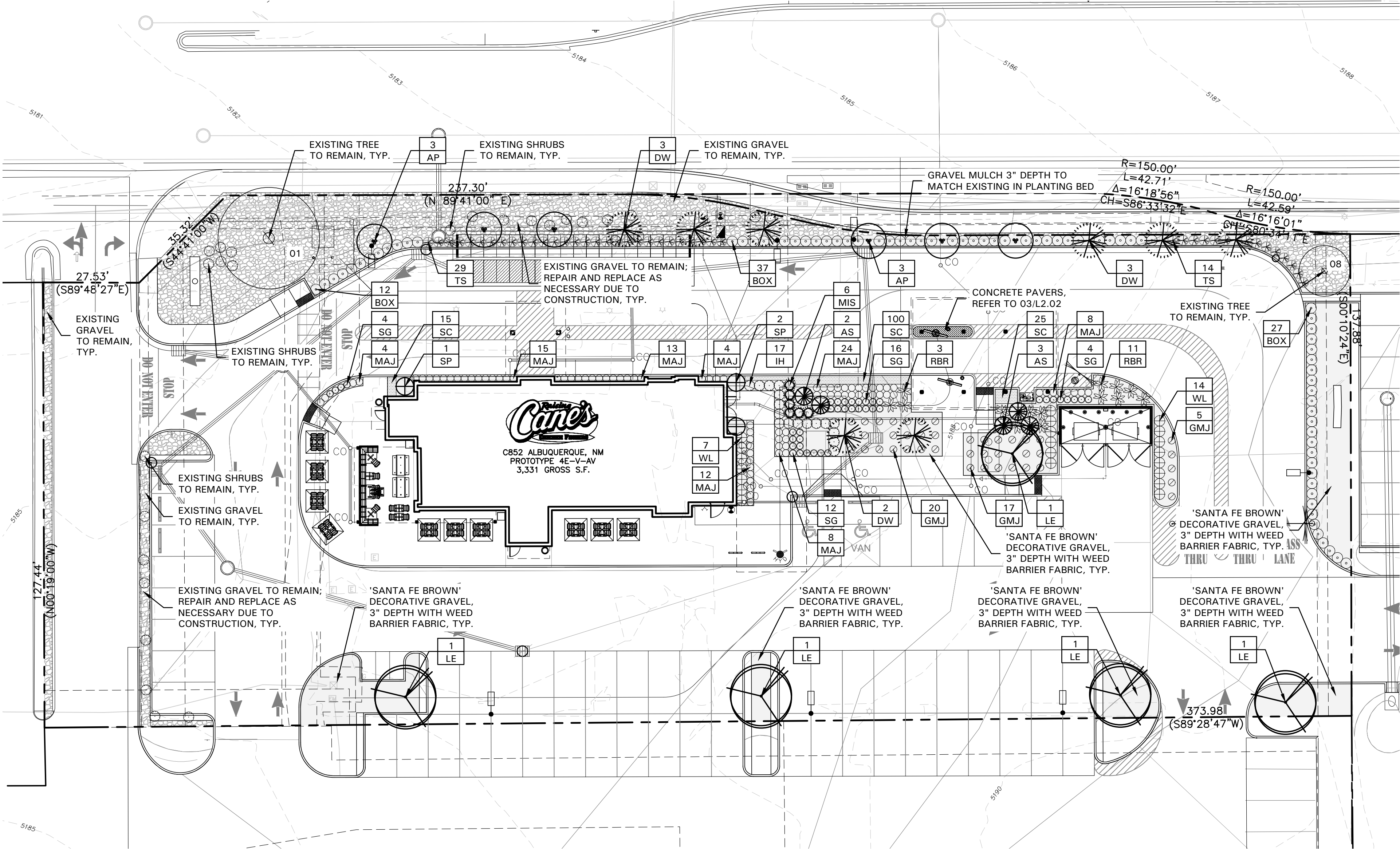
- 4245 North Central Expy
- Suite 501
- Dallas, Texas 75205
- 214.865.7192 office



Restaurant Support Office
6800 Bishop Road, Plano, TX 75024
Tele: 972-769-3100 Fax: 972-769-3101



L1.01



PLANT LIST

| SYMBOL | BOTANICAL NAME | COMMON NAME | WATER USE | QTY. | SIZE | REMARKS |
|---------------------|--|-------------------------------|----------------|------|---------|---|
| TREES | | | | | | |
| AP | <i>Pinus eldarica</i> | Afghan Pine | Low | 6 | 2" cal. | B&B or container grown, 6' ht., full to base, 3' spread |
| DW | <i>Chilopsis linearis</i> | Desert Willow | Low to Medium | 8 | 2" cal. | container grown, 3-5 trunk, 8' ht. min., 4' spread min. |
| LE | <i>Ulmus parvifolia</i> 'Sempervirens' | Lacebark Elm | Low to Medium | 5 | 3" cal. | container grown, 12' ht., 4' spread, 4' branching ht., matching |
| SHRUBS/GROUND COVER | | | | | | |
| AS | <i>Picea glauca</i> 'Conica' | Dwarf Alberta Spruce | Medium to High | 5 | 15 gal. | B&B or container grown, full to base, 3' spread |
| BOX | <i>Buxus microphylla</i> 'Winter Gem' | Winter Gem Boxwood | Medium | 76 | 5 gal. | container full, 20" spread, 36" o.c. |
| GMJ | <i>Juniperus procumbens</i> 'Nana' | Green Mound Juniper | Low | 42 | 5 gal. | container full, 20" spread, 24" o.c. |
| IH | <i>Raphiolepis indica</i> 'Bay Breeze' | Indian Hawthorne 'Bay Breeze' | Medium | 17 | 5 gal. | container full, 20" spread, 24" o.c. |
| MAJ | <i>Juniperus sabina</i> 'Mini Arcade' | Mini Arcade Juniper | Low | 88 | 5 gal. | container full, 20" spread, 24" o.c. |
| MIS | <i>Miscanthus sinensis</i> 'Adagio' | Miscanthus 'Adagio' | Medium | 6 | 5 gal. | container full, 36" o.c. |
| RBR | <i>Leucophyllum langmaniae</i> | Rio Bravo Rainsage | Low | 14 | 5 gal. | container full, 20" spread, 24" o.c. |
| SC | | Seasonal Color | Medium | 140 | 4" pots | container full, 12" o.c., selection by Owner |
| SG | <i>Salvia greggii</i> 'Red' | Salvia Greggii | Medium | 36 | 5 gal. | container full, 20" spread 24" o.c. |
| SP | <i>Juniperus chinensis</i> 'Spartan' | Spartan Juniper | Low | 3 | 15 gal. | B&B or container grown, full to base, 3' spread |
| TS | <i>Leucophyllum frutescens</i> 'Green Cloud' | Texas Sage 'Green Cloud' | Low | 43 | 5 gal. | container full, 20" spread, 24" o.c. |
| WL | <i>Ligustrum japonica</i> | Wax Leaf Ligustrum | Medium | 21 | 5 gal. | container full, 20" spread, 36" o.c. |

NOTE: ALL TREES SHALL HAVE STRAIGHT TRUNKS AND BE MATCHING WITHIN VARIETIES.
PLANT LIST IS AN AID TO BIDDERS ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES ON PLAN.
ALL HEIGHTS AND SPREADS ARE MINIMUMS. ALL PLANT MATERIAL SHALL MEET OR EXCEED REMARKS AS INDICATED.

LANDSCAPE NOTES

- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED SITE ELEMENTS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS.
- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL PROVIDE A MINIMUM 2% SLOPE AWAY FROM ALL STRUCTURES.
- CONTRACTOR SHALL FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS AS INDICATED. LEAVE AREAS TO RECEIVE TOPSOIL 3" BELOW FINAL FINISHED GRADE IN PLANTING AREAS AND 1" BELOW FINAL FINISHED GRADE IN LAWN AREAS.
- ALL PLANTING BEDS AND LAWN AREAS SHALL BE SEPARATED BY STEEL EDGING. NO STEEL EDGING SHALL BE INSTALLED ADJACENT TO BUILDINGS, WALKS, OR CURBS. CUT STEEL EDGING AT 45 DEGREE ANGLE WHERE IT INTERSECTS WALKS AND CURBS.
- TOP OF MULCH SHALL BE 1/2" MINIMUM BELOW THE TOP OF WALKS AND CURBS.
- ALL REQUIRED LANDSCAPE AREAS SHALL BE PROVIDED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM WITH RAIN AND FREEZE SENSORS AND EVAPOTRANSPIRATION (ET) WEATHER-BASED CONTROLLERS AND SAID IRRIGATION SYSTEM SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL AND INSTALLED BY A LICENSED IRRIGATOR.
- CONTRACTOR SHALL PROVIDE BID PROPOSAL LISTING UNIT PRICES FOR ALL MATERIAL PROVIDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED LANDSCAPE AND IRRIGATION PERMITS.

MAINTENANCE NOTES

- THE OWNER, TENANT AND THEIR AGENT, IF ANY, SHALL BE JOINTLY AND SEVERALLY RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE.
- ALL LANDSCAPE SHALL BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES. THIS SHALL INCLUDE MOWING, EDGING, PRUNING, FERTILIZING, WATERING, WEEDING AND OTHER SUCH ACTIVITIES COMMON TO LANDSCAPE MAINTENANCE.
- ALL LANDSCAPE AREAS SHALL BE KEPT FREE OF TRASH, LITTER, WEEDS AND OTHER SUCH MATERIAL OR PLANTS NOT PART OF THIS PLAN.
- ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION AS IS APPROPRIATE FOR THE SEASON OF THE YEAR.
- ALL PLANT MATERIAL WHICH DIES SHALL BE REPLACED WITH PLANT MATERIAL OF EQUAL OR BETTER VALUE.
- CONTRACTOR SHALL PROVIDE SEPARATE BID PROPOSAL FOR ONE YEAR'S MAINTENANCE TO BEGIN AFTER FINAL ACCEPTANCE.

CONCRETE PAVER NOTES

- CONTRACTOR SHALL ADHERE TO THE MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND ANY OTHER REQUIREMENTS OUTLINED BY THE MANUFACTURER FOR ALL PAVER INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE MANUFACTURER'S SPECIFICATIONS PRIOR TO COMMENCING ANY WORK.
- CONCRETE PAVERS SHALL BE:
 - BELGARD® LEGACY SERIES
 - MODEL: HOLLAND STONE
 - PATTERN: HERRINGBONE
 - COLOR: CHARCOAL
- CONTRACTOR SHALL SUBMIT A STANDARD COLOR SAMPLE BOARD TO THE OWNER'S AUTHORIZED REPRESENTATIVE FOR FINAL COLOR SELECTION PRIOR TO PLACING ORDER.
- THE FINAL COLOR SELECTION SHALL BE MADE BY THE OWNER'S AUTHORIZED REPRESENTATIVE ON-SITE.
- CONCRETE PAVERS AVAILABLE FROM:
WWW.BELGARD.COM
- THE CONTRACTOR SHALL CONSTRUCT A SAMPLE PANEL 4'-0" BY 4'-0" ON-SITE, AT NO EXPENSE TO THE OWNER, FOR APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- THE OWNER'S AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY AND ALL WORK EXECUTED BY THE CONTRACTOR WHICH DOES NOT MEET HIS/HER EXPECTATIONS AND THE MANUFACTURER'S SPECIFICATIONS.
- THE CONTRACTOR SHALL MAKE ANY MODIFICATIONS REQUIRED BY THE OWNER'S AUTHORIZED REPRESENTATIVE AT NO EXPENSE TO THE OWNER.

LANDSCAPE TABULATIONS

THE CITY OF ALBUQUERQUE, NEW MEXICO

SITE LANDSCAPE REQUIREMENTS

- The total landscaped area required for each development shall equal not less than 15% of the net lot area.
- Tree canopies and ground-level plants shall cover a minimum of 75% of the total landscape area.
- Of the required vegetative coverage, a minimum of 25% shall be provided as ground-level plants.

Total Site: 54,989 s.f.
Building Pad: 3,331 s.f.
Net Lot Area: 51,658 s.f.

Required: 7,749 s.f. (15%)
Provided: 9,282 s.f. (17%)

Total Landscape Area: 10,788 s.f.
Required: 8,091 s.f. (75%)
Provided:
8,300 s.f.
(2) small existing trees
@ 300 s.f. = 600 s.f.
(5) trees
@ 700 s.f. = 3,500 s.f.
(14) small trees
@ 300 s.f. = 4,200 s.f.
2,604 s.f. (32% of 8,091)
2,022 s.f. (25% of 8,091)

STREET TREES

- One (1) tree every 25 feet on center along street frontage.

MONTGOMERY BOULEVARD: 356 l.f.

Required: (14) trees, 2" cal.
Provided: (14) trees, 2" cal.

PARKING LOT INTERIOR

- One (1) tree is required per 10 parking spaces.
- No parking space may be more than 100 feet in any direction from a tree trunk.
- At least 75% of the required parking area trees shall be deciduous canopy-type shade trees, capable of achieving a mature canopy diameter of at least 25 feet.

Parking Spaces: 36

Required: (3) trees
75% deciduous
Provided: (3) trees
75% deciduous

DRIVE THROUGH SCREENING

- At least 2 evergreen trees shall be planted in the landscape buffer area required.

Required: (2) evergreen trees
36" evergreen screen
Provided: (2) evergreen trees
36" evergreen screen



Store:
4800 Montgomery Blvd NE
ALBUQUERQUE, NM 87112
Restaurant #RC852
P4E-V-AV SCHEME A

Professional of Record: KEN MCCrackEN

Ken McCracken,
Architect

Architecture • Program Management • Permitting

1101 Central Expressway South
Suite 100
Allen, TX 75013
CONTACT: EVERETT FIELDS
(469) 619-1164
EFIELDS@PMDGINC.COM



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Sheet Title:

LANDSCAPE PLAN

Date: 03.29.2022

Project Number: RAC21059.0

Drawn By: TM/KH

Sheet Number:



SCALE: 1" = 20'-0"
0 10 20 40



4245 North Central Expy
Suite 501
Dallas, Texas 75205
214.865.7192 office

L2.01

SECTION 32 9300 - LANDSCAPE

PART 1 - GENERAL

1.1 REFERENCED DOCUMENTS

- A. Refer to Landscape Plans, notes, details, bidding requirements, special provisions, and schedules for additional requirements.

1.2 DESCRIPTION OF WORK

- A. Work included: Furnish all supervision, labor, materials, services, equipment and appliances required to complete the work covered in conjunction with the landscaping covered in these specifications and landscaping plans, including:

- Planting (trees, shrubs and grasses)
- Bed preparation and fertilization
- Notification of sources
- Water and maintenance until final acceptance
- Guarantee

1.3 REFERENCE STANDARDS

- A. American Standard for Nursery Stock published by American Association of Nurserymen: April 14, 2014 Edition; by American National Standards Institute, Inc. (Z60.1) – plant material
- B. American Joint Committee on Horticultural Nomenclature: 1942 Edition of Standardized Plant Names.
- C. New Mexico Association of Nurserymen, Grades and Standards
- D. Hortis Third, 1976 - Cornell University

1.4 NOTIFICATION OF SOURCES AND SUBMITTALS

- A. Samples: Provide representative quantities of sandy loam soil, mulch, bed mix material, gravel, crushed stone, steel edging and tree stakes. Samples shall be approved by Owner's Authorized Representative before use on the project.

1.5 JOB CONDITIONS

- A. General Contractor to complete the following punch list: Prior to Landscape Contractor initiating any portion of landscape installation, General Contractor shall leave planting bed areas three (3") inches below final finish grade of sidewalks, drives and curbs as shown on the drawings. All lawn areas to receive solid sod shall be left one (1") inch below the final finish grade of sidewalks, drives and curbs. All construction debris shall be removed prior to Landscape Contractor beginning any work.
- B. Storage of materials and equipment at the job site will be at the risk of the Landscape Contractor. The Owner cannot be held responsible for theft or damage.

1.6 MAINTENANCE AND GUARANTEE

- A. Maintenance:
- The Landscape Contractor shall be held responsible for the maintenance of all work from the time of planting until final acceptance by the Owner. No trees, shrubs, groundcover or grass will be accepted unless they show healthy growth and satisfactory foliage conditions.
 - Maintenance shall include watering of trees and plants, cultivation, weeding spraying, edging, pruning of trees, mowing of grass, cleaning up and all other work necessary of maintenance.
 - A written notice requesting final inspection and acceptance should be submitted to the Owner at least seven (7) days prior to completion. An on-site inspection by the Owner's Authorized Representative will be completed prior to written acceptance.
- B. Guarantee:

- Trees, shrubs and groundcover shall be guaranteed for a twelve (12) month period after final acceptance. The Contractor shall replace all dead materials as soon as weather permits and upon notification of the Owner. Plants, including trees, which have partially died so that shape, size, or symmetry have been damaged, shall be considered subject to replacement. In such cases, the opinion of the Owner shall be final.
 - Plants used for replacement shall be of the same size and kind as those originally planted and shall be planted as originally specified. All work, including materials, labor and equipment used in replacements, shall carry a twelve (12) month guarantee. Any damage, including ruts in lawn or bed areas, incurred as a result of making replacements shall be immediately repaired.
 - At the direction of the Owner, plants may be replaced at the start of the next year's planting season. In such cases, dead plants shall be removed from the premises immediately.
 - When plant replacements are made, plants, soil mix, fertilizer and mulch are to be utilized as originally specified and re-inspected for full compliance with the contract requirements. All replacements are to be included under "Work" of this section.

- The Owner agrees that for the guarantee to be effective, he will water plants at least twice a week during dry periods and cultivate beds once a month after final acceptance.
- The above guarantee shall not apply where plants die after acceptance because of injury from storms, hail, freeze, insects, diseases, injury by humans, machines or theft.
- Acceptance for all landscape work shall be given after final inspection by the Owner provided the job is in a complete, undamaged condition and there is a stand of grass in all lawn areas. At that time, the Owner will assume maintenance on the accepted work.
- Repairs: Any necessary repairs under the Guarantee must be made within ten (10) days after receiving notice, weather permitting. In the event the Landscape Contractor does not make repairs accordingly, the Owner, without further notice to Contractor, may provide materials and men to make such repairs at the expense to the Landscape Contractor.

1.7 QUALITY ASSURANCE

- A. General: Comply with applicable federal, state, county and local regulations governing landscape materials and work.
- B. Personnel: Employ only experienced personnel who are familiar with the required work. Provide full time supervision by a qualified foreman acceptable to Landscape Architect.
- C. Selection of Plant Material:
- Make contact with suppliers immediately upon obtaining notice of contract acceptance to select and book materials. Develop a program of maintenance (pruning and fertilization) which will ensure the purchased materials will meet and / or exceed project specifications.
 - Substitutions: Do not make plant material substitutions. If the specified landscape material is not obtainable, submit proof of non-availability to Landscape Architect, together with proposal for use of equivalent material. At the time bids are submitted, the Contractor is assumed to have located the materials necessary to complete the job as specified.
 - Landscape Architect will provide a key identifying each tree location on site. Written verification will be required to document material selection, source and delivery schedules to site.
 - Measurements: Measure trees with branches and trunks or canes in their normal position. Do not prune to obtain required sizes. Take caliper measurements six inches above ground for trees up to and including 4" caliper size, and twelve inches above ground for larger sizes. Measure main body of all plant material of height and spread dimensions,

do not measure from branch or root tip-to-tip.

- Owner's Authorized Representative shall inspect all plant material with requirements for genus, species, cultivar / variety size and quality.
- Owner's Authorized Representative retains the right to further inspect all plant material upon arrival to the site and during installation for size and condition of root balls and root systems, limbs, branching habit, insects, injuries and latent defects.
- Owner's Authorized Representative may reject unsatisfactory or defective material at any time during the process work. Remove rejected materials immediately from the site and replace with acceptable material at no additional cost to the Owner. Plants damaged in transit or at job site shall be rejected.

1.8 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Preparation:

- Balled and Burlapped (B&B) Plants: Dig and prepare shipment in a manner that will not damage roots, branches, shape and future development.
- Container Grown Plants: Deliver plants in rigid container to hold ball shape and protect root mass.

B. Delivery:

- Deliver packaged materials in sealed containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored on site.
- Deliver only plant materials that can be planted in one day unless adequate storage and watering facilities are available on job site.
- Protect root balls by heeling in with sawdust or other approved moisture retaining material if not planted within 24 hours of delivery.
- Protect plants during delivery to prevent damage to root balls or desiccation of leaves. Keep plants moist at all times. Cover all materials during transport.
- Notify Owner's Authorized Representative of delivery schedule 72 hours in advance job site.
- Remove rejected plant material immediately from job site.
- To avoid damage or stress, do not lift, move, adjust to plumb, or otherwise manipulate plants by trunk or stems.

PART 2 - PRODUCTS

2.1 PLANTS

- A. General: Well-formed No. 1 grade or better nursery grown stock. Listed plant heights are from tops of root balls to nominal tops of plants. Plant spread refers to nominal outer width of the plant, not to the outer leaf tips. Plants will be individually approved by the Owner's Authorized Representative and his decision as to their acceptability shall be final.
- B. Quantities: The drawings and specifications are complementary. Anything called for on one and not the other is as binding as if shown and called for on both. The plant schedule is an aid to bidders only. Confirm all quantities on plan.
- C. Quality and size: Plant materials shall conform to the size given on the plan, and shall be healthy, symmetrical, well-shaped, full branched and well rooted. The plants shall be free from injurious insects, diseases, injuries to the bark or roots, broken branches, objectionable disfigurements, insect eggs and larvae, and are to be of specimen quality.
- D. Approval: All plants which are found unsuitable in growth, or are in any unhealthy, badly shaped or undersized condition will be rejected by the Owner's Authorized Representative either before or after planting and shall be removed at the expense of the Landscape Contractor and replaced with acceptable plant as

specified at no additional cost to the Owner.

- Trees shall be healthy, full-branched, well-shaped, and shall meet the minimum trunk and diameter requirements of the plant schedule. Balls shall be firm, neat, slightly tapered and well wrapped in burlap. Any tree loose in the ball or with a broken root ball at time of planting will be rejected. Balls shall be ten (10") inches in diameter for each one (1") inch of trunk diameter, measured six (6") inches above ball. (Nomenclature confirms to the customary nursery usage. For clarification, the term "multi-trunk" defines a plant having three (3) or more trunks of nearly equal diameter.)
- Pruning: All pruning of trees and shrubs, as directed by the Landscape Architect prior to final acceptance, shall be executed by the Landscape Contractor at no additional cost to the Owner.

2.2 SOIL PREPARATION MATERIALS

A. Sandy Loam:

- Friable, fertile, dark, loamy soil, free of clay lumps, subsoil, stones and other extraneous material and reasonably free of weeds and foreign grasses. Loam containing Dallasgrass or Nutgrass shall be rejected.
- Physical properties as follows:
 - Clay – between 7-27 percent
 - Silt – between 15-25 percent
 - Sand – less than 52 percent
- Organic matter shall be 3%-10% of total dry weight.
- If requested, Landscape Contractor shall provide a certified soil analysis conducted by an approved soil testing laboratory verifying that sandy loam meets the above requirements.

- B. Organic Material: Compost with a mixture of 80% vegetative matter and 20% animal waste. Ingredients should be a mix of course and fine textured material.
- C. Sharp Sand: Sharp sand must be free of seeds, soil particles and weeds.
- D. Mulch: Double Shredded Hardwood Mulch, partially decomposed, dark brown unless otherwise specified on plans.
- E. Organic Fertilizer: Fertilaid, Sustane, or Green Sense or equal as recommended for required applications. Fertilizer shall be delivered to the site in original unopened containers, each bearing the manufacturer's guaranteed statement of analysis.
- F. Commercial Fertilizer: 10-20-10 or similar analysis. Nitrogen source to be a minimum 50% slow release organic Nitrogen (SCU or UF) with a minimum 8% sulfur and 4% iron, plus micronutrients.
- G. Peat: Commercial sphagnum peat moss or partially decomposed shredded pine bark or other approved organic material.

2.3 MISCELLANEOUS MATERIALS

- A. Steel Edging: All steel edging shall be 3/16" thick x 4" deep x 18' long with 6 stakes per section, painted black at the factory as manufactured by The J.D. Russell Company and under its trade name DURAEDEGE Heavy Duty Steel.
- B. Staking Material for Shade Trees: refer to details.
- C. Gravel: Washed native pea gravel, graded 1 inch to 1-1/2 inch.
- D. Filter Fabric: 'Mirafi Mirascape' by Mirafi Construction Products or approved equal.
- E. River Rock: 'Colorado' or native river rock, 2" - 4" dia.
- F. Decomposed Granite: Base material shall consist of a natural material mix of granite aggregate not to exceed 1/8" diameter in size and shall be composed of various stages of decomposed earth base.

PART 3 - EXECUTION

3.1 BED PREPARATION & FERTILIZATION

- A. Landscape Contractor to inspect all existing conditions and report any deficiencies to the Owner.
- B. All planting areas shall be conditioned as follows:
- Prepare new planting beds by scraping away existing grass and weeds as necessary. Till existing soil to a depth of six (6") inches prior to placing compost and fertilizer. Apply fertilizer as per Manufacturer's recommendations. Add six (6") inches of compost and till into a depth of six (6") inches of the topsoil. Apply organic fertilizer such as Sustane or Green Sense at the rate of twenty (20) pounds per one thousand (1,000) square feet.

- All planting areas shall receive a three (3") inch layer of specified mulch.
- Backfill for tree pits shall be as follows: Use existing top soil on site (use imported topsoil as needed) free from large clumps, rocks, debris, caliche, subsoils, etc., placed in nine (9") inch layers and watered in thoroughly.

C. Grass Areas:

- Blocks of sod should be laid joint to joint (staggered joints) after fertilizing the ground first. Roll grass areas to achieve a smooth, even surface. The joints between the blocks of sod should be filled with topsoil where they are evidently gaped open, then watered thoroughly.

3.2 INSTALLATION

- A. Maintenance of plant materials shall begin immediately after each plant is delivered to the site and shall continue until all construction has been satisfactorily accomplished.
- B. Plant materials shall be delivered to the site only after the beds are prepared and areas are ready for planting. All shipments of nursery materials shall be thoroughly protected from the drying winds during transit. All plants which cannot be planted at once, after delivery to the site, shall be well protected against the possibility of drying by wind and Balls of earth of B & B plants shall be kept covered with soil or other acceptable material. All plants remain the property of the Contractor until final acceptance.
- C. Position the trees and shrubs in their intended location as per plan.
- D. Notify the Owner's Authorized Representative for inspection and approval of all positioning of plant materials.
- E. Excavate pits with vertical sides and horizontal bottom. Tree pits shall be large enough to permit handling and planting without injury to balls of earth or roots and shall be of such depth that when planted and settled, the crown of the plant shall bear the same relationship to the finish grade as it did to soil surface in original place of growth.
- F. Shrub and tree pits shall be no less than twenty-four (24") inches wider than the lateral dimension of the earth ball and six (6") inches deeper than it's vertical dimension. Remove and haul from site all rocks and stones over three-quarter (¾") inch in diameter. Plants should be thoroughly moist before removing containers.
- G. Dig a wide, rough sided hole exactly the same depth as the height of the ball, especially at the surface of the ground. The sides of the hole should be rough and jagged, never slick or glazed.
- H. Percolation Test: Fill the hole with water. If the water level does not percolate within 24 hours, the tree needs to move to another location or have drainage added. Install a PVC stand pipe per tree planting detail as approved by the Landscape Architect if the percolation test fails.
- I. Backfill only with 5 parts existing soil or sandy loam and 1 part bed preparation. When the hole is dug in solid rock, topsoil from

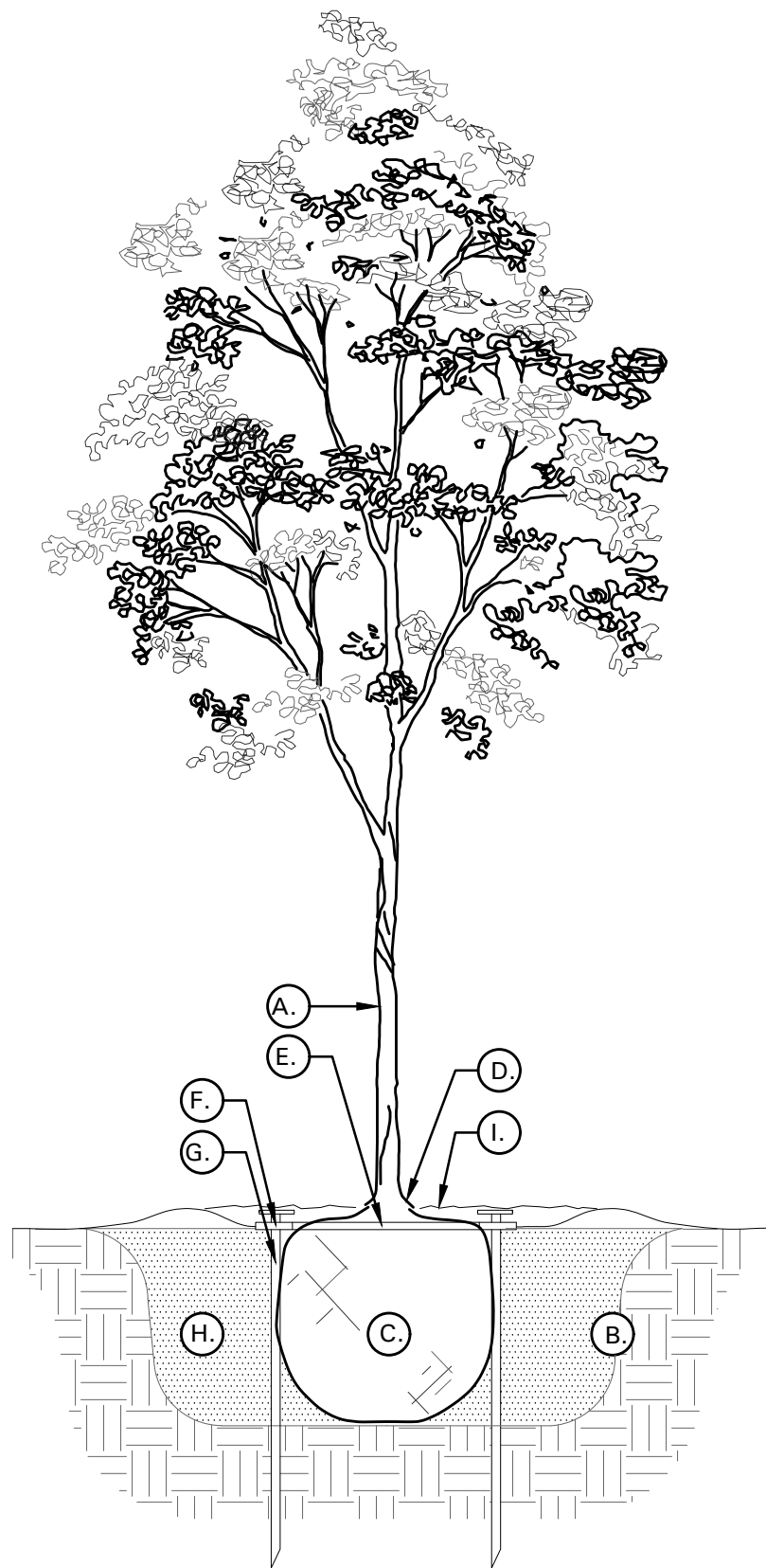
the same area should not be used. Carefully settle by watering to prevent air pockets. Remove the burlap from the top ½ of the ball, as well as all nylon, plastic string and wire. Container trees will usually be root bound, if so follow standard nursery practice of 'root scoring'.

- Do not wrap trees.
- Do not over prune.
- Mulch the top of the ball. Do not plant grass all the way to the trunk of the tree. Leave the area above the top of the ball and mulch with at least three (3") inches of specified mulch.
- All plant beds and trees to be mulched with a minimum settled thickness of three (3") inches over the entire bed or pit.
- Obstruction below ground: In the event that rock, or underground construction work or obstructions are encountered in any plant pit excavation work to be done under this section, alternate locations may be selected by the Owner. Where obstructions cannot be changed, the obstructions shall be removed to a depth of not less than three (3') feet below grade and no less than six (6") inches below the bottom of ball when plant is properly set at the required grade. The work of this section shall include the removal from the site of such rock or underground obstructions encountered at the cost of the Landscape Contractor.
- Trees and large shrubs shall be staked as site conditions require. Position stakes to secure trees against seasonal prevailing winds.
- Pruning and Mulching: Pruning shall be directed by the Landscape Architect and shall be pruned in accordance with standard horticultural practice following Fine Pruning, Class I pruning standards provided by the National Arborist Association.
 - Dead wood, suckers, broken and badly bruised branches shall be removed. General tipping of the branches is not permitted. Do not cut terminal branches.
 - Pruning shall be done with clean, sharp tools.
 - Immediately after planting operations are completed, all tree pits shall be covered with a layer of organic material two (2") inches in depth. This limit of the organic material for trees shall be the diameter of the plant pit.
- Steel Curbing Installation:
 - Curbing shall be aligned as indicated on plans. Stake out limits of steel curbing and obtain Owners approval prior to installation.
 - All steel curbing shall be free of kinks and abrupt bends.
 - Top of curbing shall be ½" maximum height above final finished grade.
 - Stakes are to be installed on the planting bed side of the curbing, as opposed to the grass side.
 - Do not install steel edging along sidewalks or curbs.
 - Cut steel edging at 45 degree angle where edging meets sidewalks or curbs.

3.3 CLEANUP AND ACCEPTANCE

- A. Cleanup: During the work, the premises shall be kept neat and orderly at all times. Storage areas for all materials shall be so organized so that they, too, are neat and orderly. All trash and debris shall be removed from the site as work progresses. Keep paved areas clean by sweeping or hosing them at end of each work day.

END OF SECTION



01 TREE PLANTING DETAIL
NOT TO SCALE

TREE PLANTING DETAIL LEGEND
AND NOTES

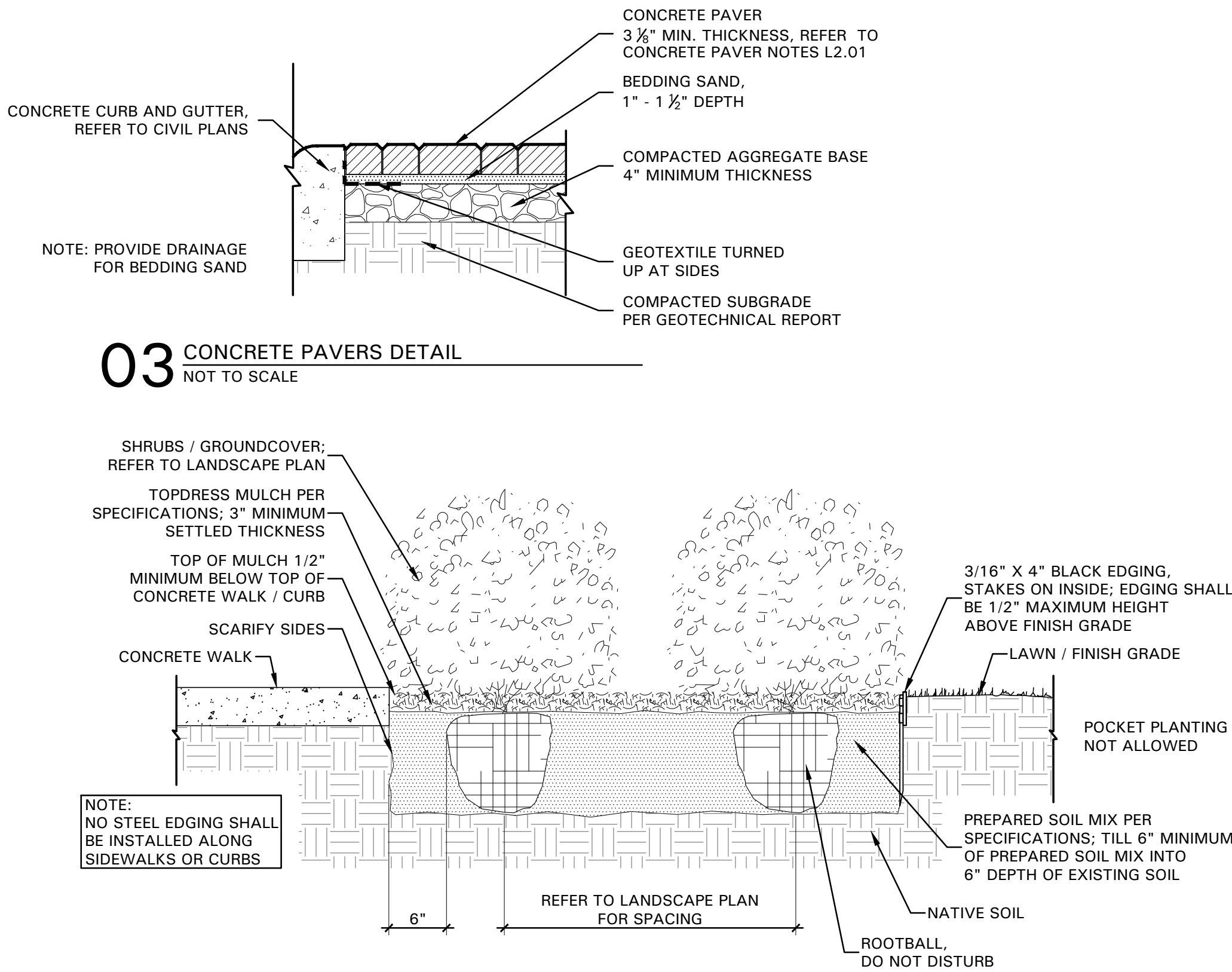
- A. TREE: TREES SHALL CONFORM WITH LATEST AMERICAN STANDARD FOR NURSERY STOCK. www.anla.org
- B. TREE PIT: WIDTH TO BE AT LEAST TWO (2) TIMES THE DIAMETER OF THE ROOT BALL CENTER TREE IN HOLE & REST ROOT BALL ON UNDISTURBED NATIVE SOIL.
- C. ROOT BALL: REMOVE TOP ½ BURLAP AND ANY OTHER FOREIGN OBJECT; CONTAINER GROWN STOCK TO BE INSPECTED FOR GIRDLING ROOTS.
- D. ROOT FLARE: ENSURE THAT ROOT FLARE IS EXPOSED, FREE FROM MULCH, AND AT LEAST TWO INCHES ABOVE GRADE. TREES SHALL BE REJECTED WHEN GIRDLING ROOTS ARE PRESENT & ROOT FLARE IS NOT APPARENT.
- E. ROOTBALL ANCHOR RING: REFER TO MANUFACTURER'S GUIDELINES FOR SIZING. PLACE ROOTBALL ANCHOR RING ON BASE OF ROOTBALL. TRUNK SHOULD BE IN THE CENTER OF THE RING.
- F. ROOT ANCHOR BY TREE STAKE SOLUTIONS.
- G. NAIL STAKE: REFER TO MANUFACTURER'S GUIDELINES FOR SIZING. INSTALL NAIL STAKES WITH HAMMER OR Mallet FIRMLY INTO UNDISTURBED GROUND. DRIVE NAIL STAKES FLUSH WITH "U" BRACKET ADJACENT TO ROOTBALL (DO NOT DISTURB ROOTBALL).

- H. BACKFILL: USE EXISTING NATIVE SOIL (no amendments) WATER THOROUGHLY TO ELIMINATE AIR POCKETS.
- I. MULCH: DOUBLE SHREDDED HARDWOOD MULCH 3 INCH SETTLED THICKNESS, WITH 2" HT. WATERING RING; ENSURE THAT ROOT FLARE IS EXPOSED. BELOW GROUND STAKE SHOULD NOT BE VISIBLE.

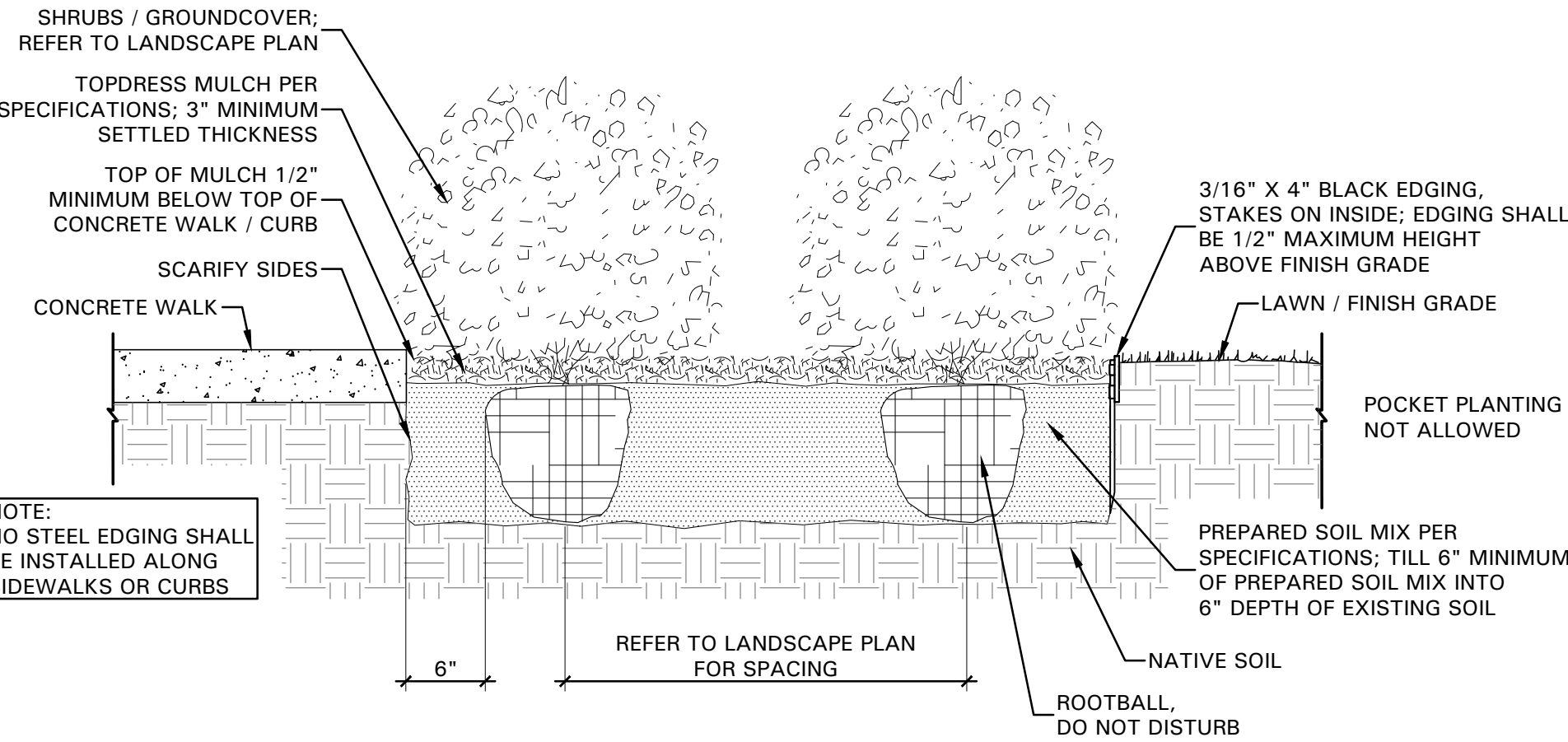
- J. TREE STAKES: TREE STAKE SOLUTIONS 'SAFETY STAKE' BELOW GROUND MODEL AVAILABLE FROM: Tree Stake Solutions ATTN: Jeff Tuley (903) 676-6143 jeff@treestakesolutions.com www.treestakesolutions.com

OR APPROVED EQUAL. TREES SHALL BE STAKED BELOW GROUND WHERE NECESSARY; ABOVE GROUND STAKING IS EXPRESSLY PROHIBITED.

- K. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION OF TREE STAKES. CONTRACTOR SHALL ADHERE TO MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND OTHER REQUIREMENTS FOR TREE STAKE INSTALLATION.



03 CONCRETE PAVERS DETAIL
NOT TO SCALE



NOTE: NO STEEL EDGING SHALL BE INSTALLED ALONG SIDEWALKS OR CURBS

02 SHRUB / GROUNDCOVER DETAIL
NOT TO SCALE



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Restaurant #RC852
P4E-V-AV SCHEME A

Professional of Record: KEN MCCrackEN

Ken McCracken,
Architect

Architecture • Program Management • Permitting

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04.26.22

Prototype : P4E-V-AV 2021- 2.0 RELEASE

Prototype Issue Date: 10.04.2021

Kitchen Issue Date: 08.02.2021

Design Bulletin Updates: --

Date Issued: Bulletin Number: --

2ND BLDG. RESUBMITTAL

REVISIONS:

| | 11/12/2021 | 80% REVIEW SET |
|---|------------|----------------------|
| | 11/30/2021 | 1ST BLDG SUBMITTAL |
| 1 | 12/27/2021 | 1ST BLDG RESUBMITTAL |
| 2 | 01/17/2022 | 2ND BLDG RESUBMITTAL |
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Sheet Title:

LANDSCAPE
SPECIFICATIONS

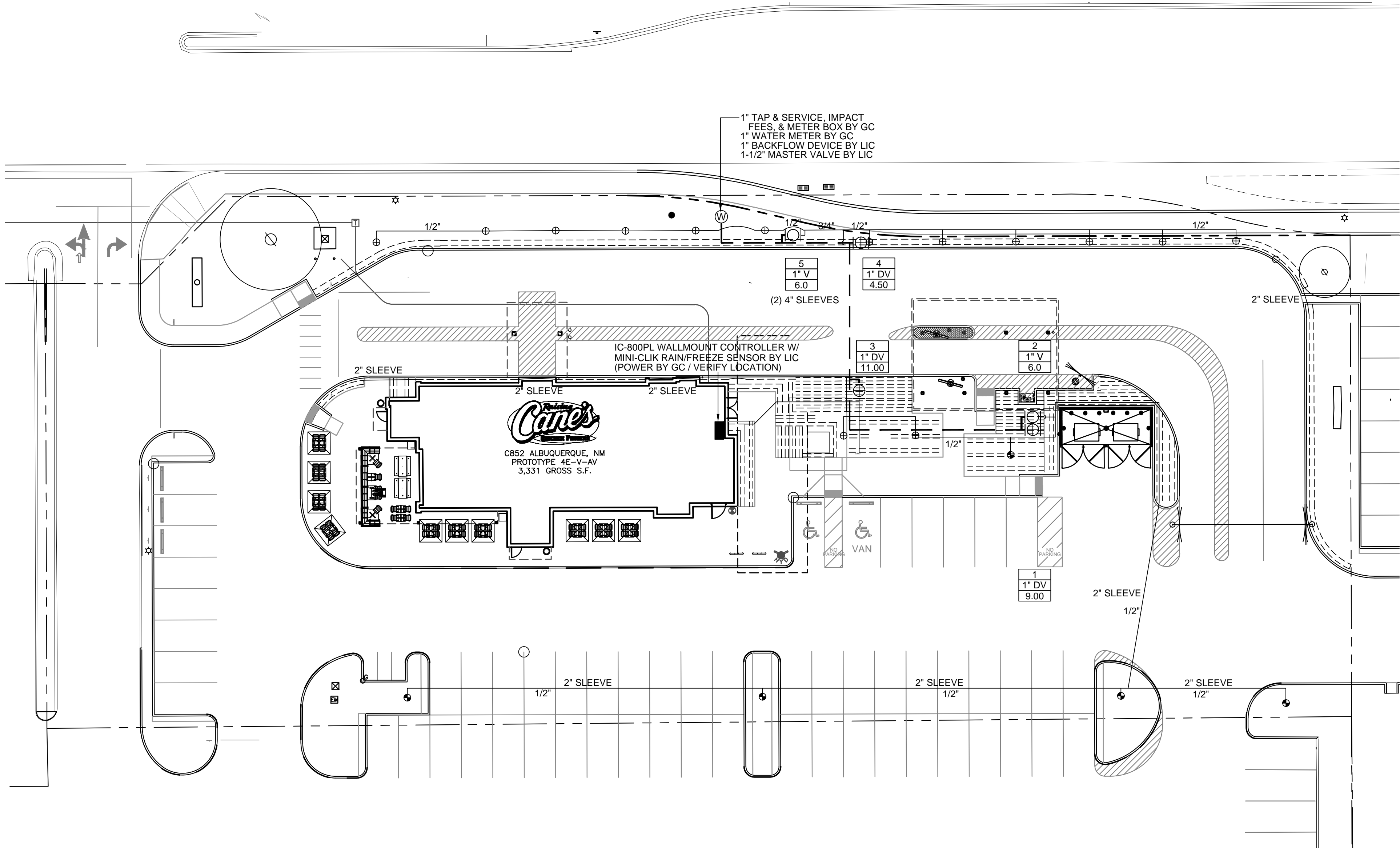
Date: 03.29.2022

Project Number: RAC21059.0

Drawn By: TM/KH

Sheet Number:

L2.02

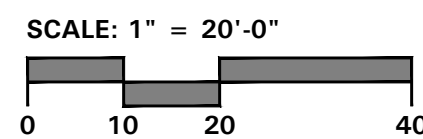


IRRIGATION LEGEND:

| SYMBOL | DESCRIPTION | MANUFACTURER | MODEL NO. |
|--------|---|-----------------|---|
| | BUBBLER HEAD | HUNTER (30 PSI) | PCB-50 PLASTIC BUBBLER NOZZLE ON HUNTER SJ SWING JOINT |
| | BUBBLER HEAD | HUNTER (30 PSI) | PCB-10 PLASTIC BUBBLER NOZZLE ON HUNTER SJ SWING JOINT |
| | REMOTE CONTROL VALVE | HUNTER | PGV SERIES WITH ACCU-SYNC PRESSURE REGULATOR, REFER TO PLANS FOR SIZE |
| | CONTROLLER | HUNTER | I-CORE WALLMOUNT WITH MINI-CLIK WIRELESS RAIN AND FREEZE SENSOR |
| | MAINLINE PIPING | REFER TO SPEC. | 1-1/2" CLASS 200 PVC |
| | LATERAL PIPING | REFER TO SPEC. | 3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC |
| | REMOTE CONTROL DRIP VALVE | HUNTER | PCZ-100 CONTROL ZONE KIT, REFER TO PLAN FOR SIZE |
| | DRIP HEADER PIPING | REFER TO SPEC. | CLASS 200 PVC UNLESS OTHERWISE NOTED |
| | PLANTING BED DRIPLINE TUBING | HUNTER | PLD-CV-06-18 AT 18" O.C. WITH PLD INSERT FITTINGS, 12 GA. GALVANIZED STAKES AND DRIP INDICATOR HEAD |
| | WATER METER | REFER TO SPEC. | PER LOCAL BUILDING CODE |
| | PVB BACKFLOW PREVENTER | FEBCO | #765, REFER TO PLAN FOR SIZE |
| | MASTER VALVE | HUNTER | ICV, REFER TO PLAN FOR SIZE |
| | STATION NUMBER VALVE SIZE GPM (APPROX.) | | |

PIPE SIZE CHART

| FLOW/GPM: | PIPE SIZE: |
|-------------|------------|
| 0 - 4.0 | 1/2" |
| 4.1 - 9.5 | 3/4" |
| 9.6 - 14.5 | 1" |
| 14.6 - 27.0 | 1-1/4" |
| 27.1 - 35.0 | 1-1/2" |
| 35.1 - 55.0 | 2" |



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Sheet Title:

IRRIGATION PLAN

Date: 03.29.2022

Project Number: RAC21059.0

Drawn By: SAH

Sheet Number:

L3.01



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Sheet Title:

IRRIGATION SPECIFICATIONS

Date: 03.29.2022

Project Number: RAC21059.0

Drawn By: SAH

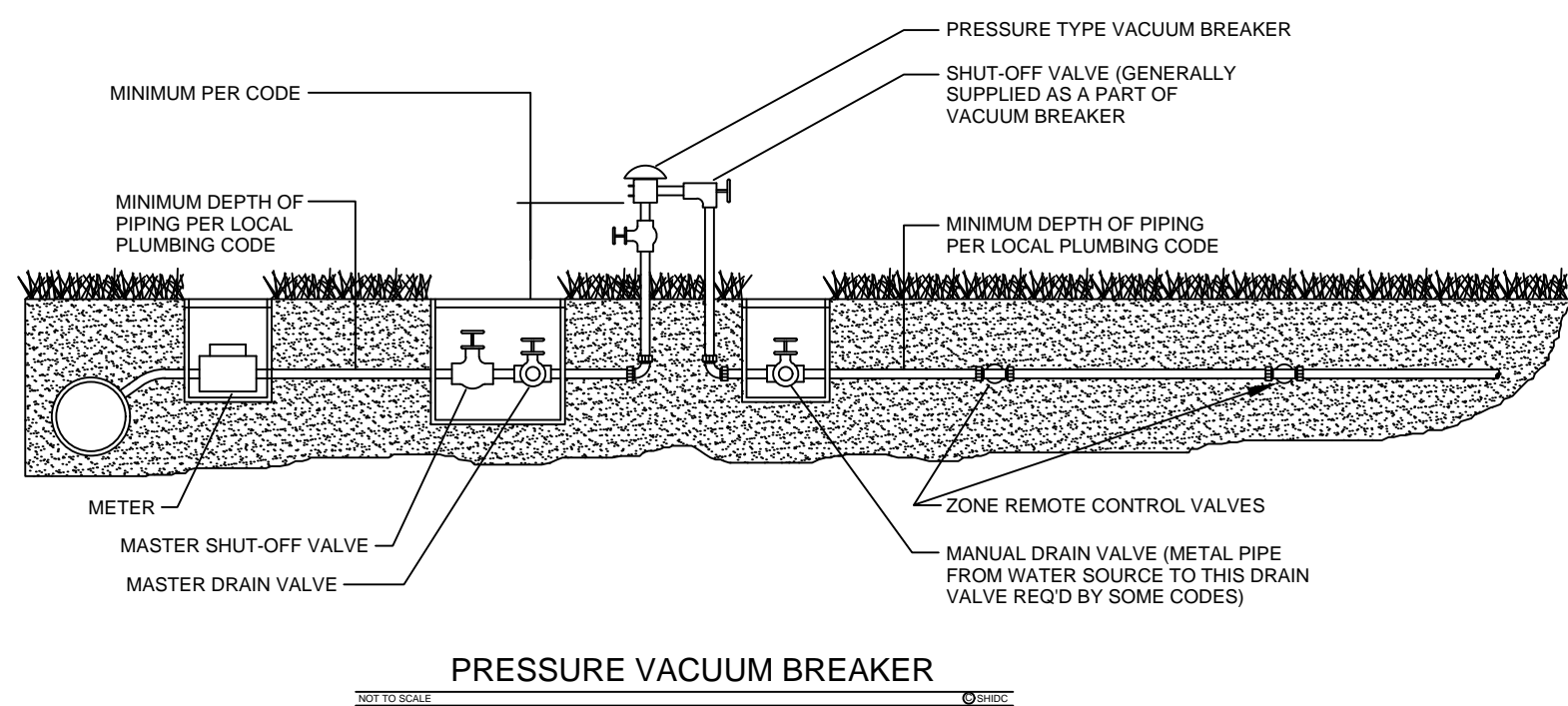
Sheet Number:

SETH HEIDMAN
IRRIGATION DESIGN & CONSULTING, LLC
2007 W. Parker Rd., #140-221, Plano, Texas 75093 Tel: 972-616-5141

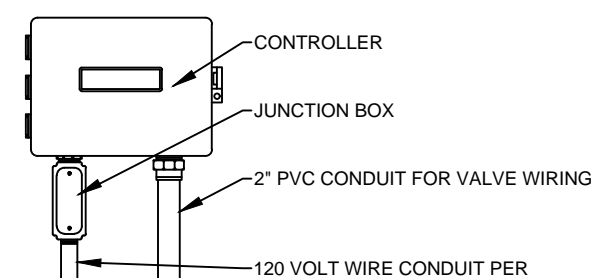


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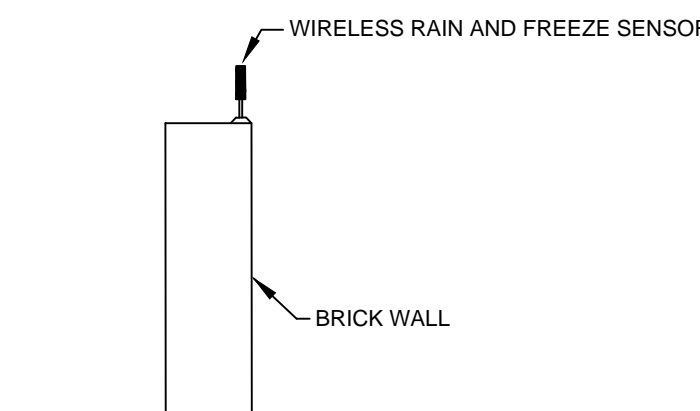
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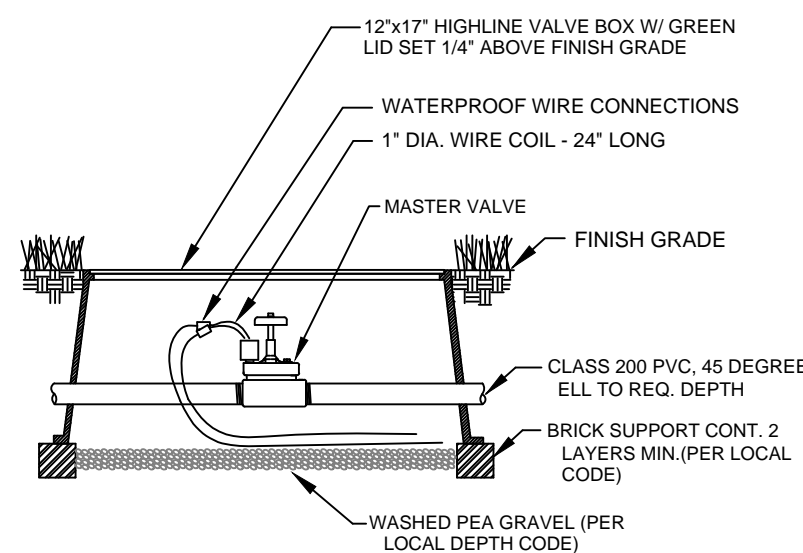
- NOTES:
1. REFER TO MANUFACTURER'S MANUAL FOR MOUNTING INSTRUCTIONS.
2. INSTALL WIRING (PER LOCAL CODE).
3. INSTALL CONDUIT W/ SWEEP FITTINGS AND PULL WIRE.



WALLMOUNT CONTROLLER

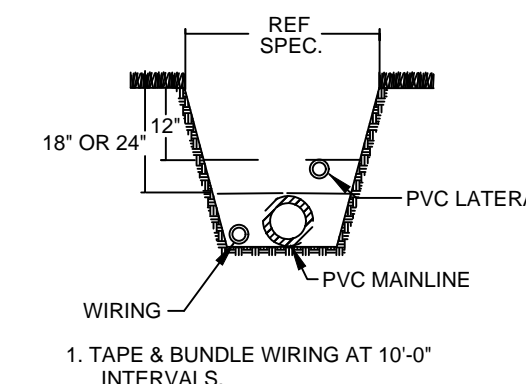


WALLMOUNT SENSOR

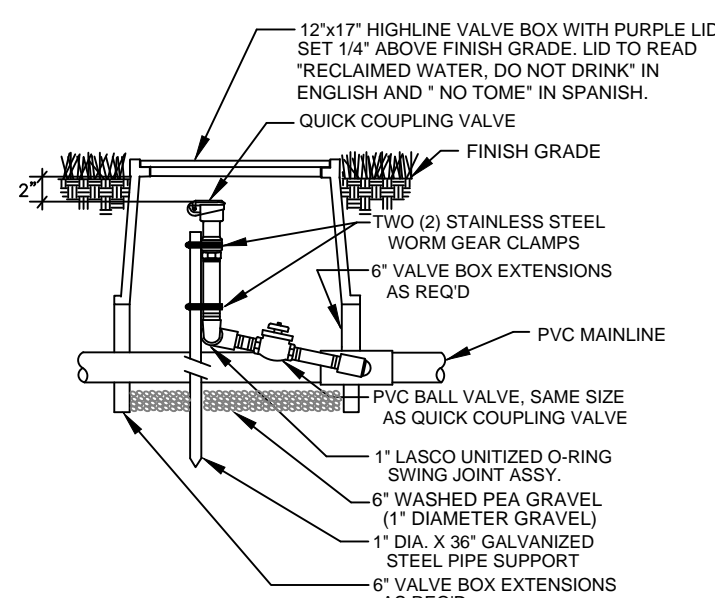


MASTER VALVE

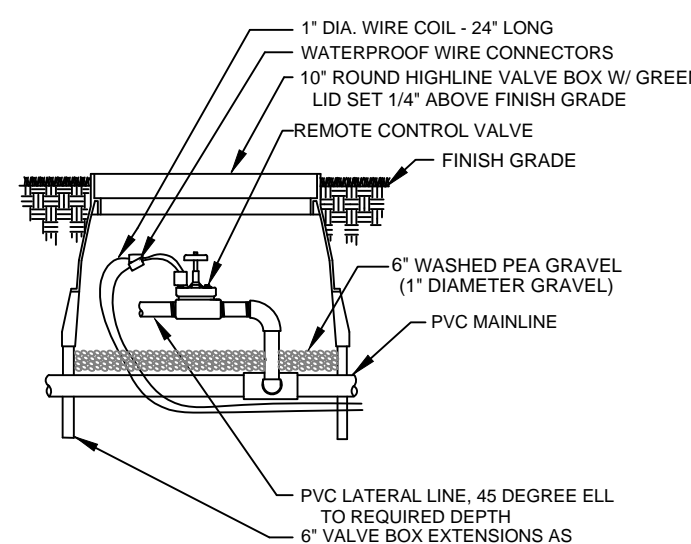
MAINLINE, LATERAL, AND WIRING



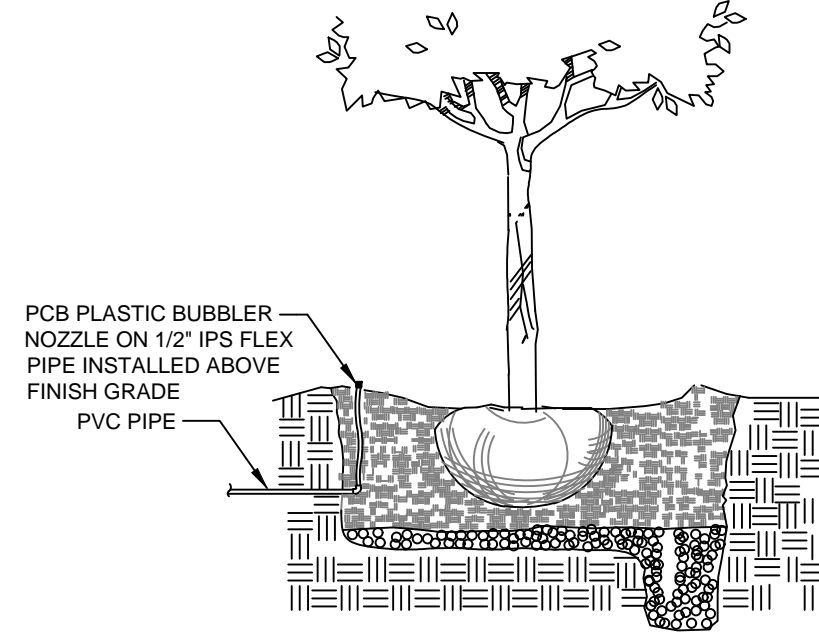
TRENCHING DETAIL



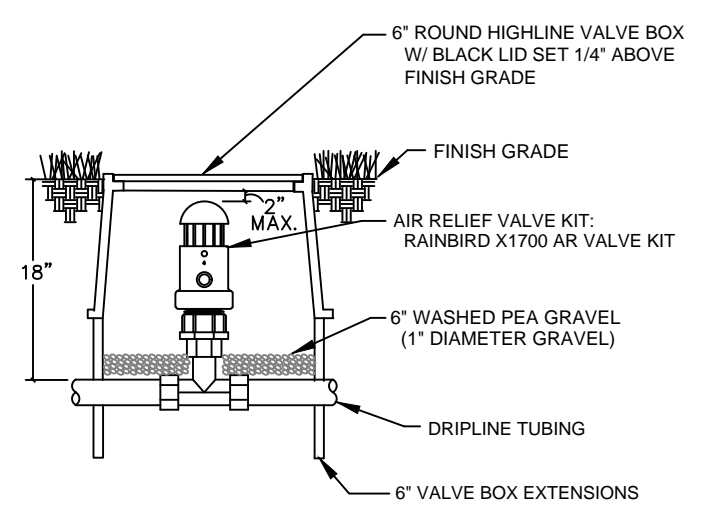
QUICK COUPLING VALVE W/ BALL VALVE



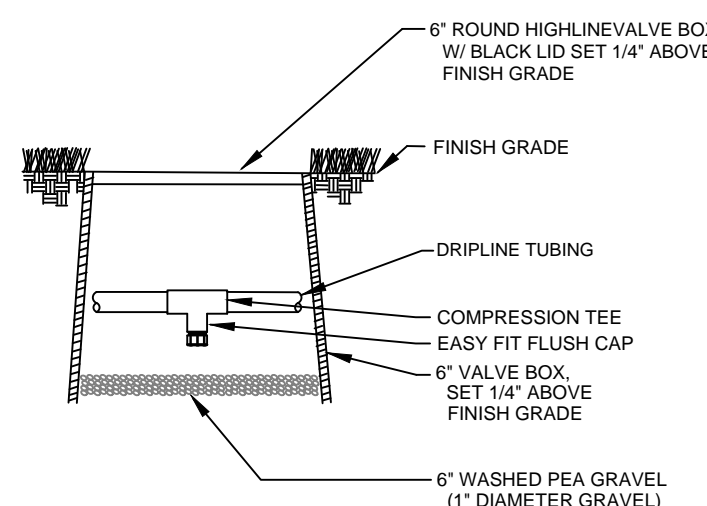
REMOTE CONTROL VALVE



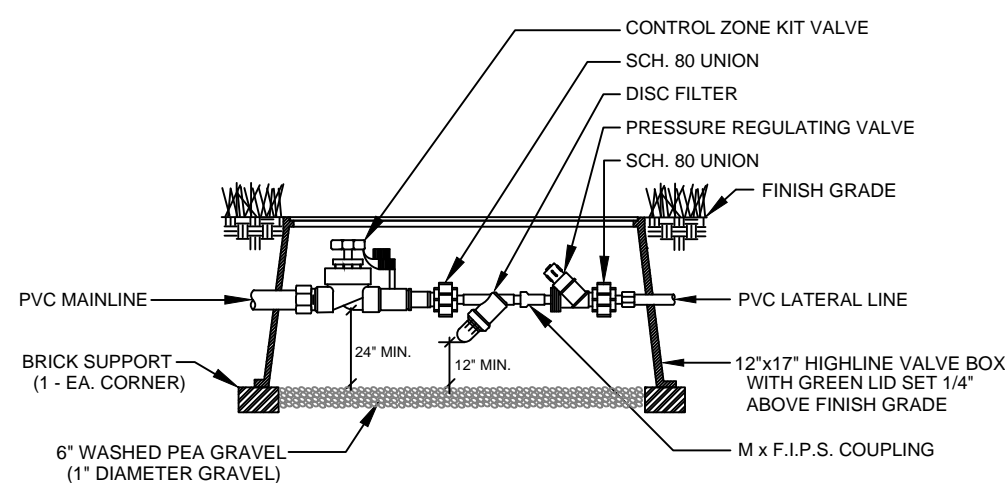
TREE BUBBLER



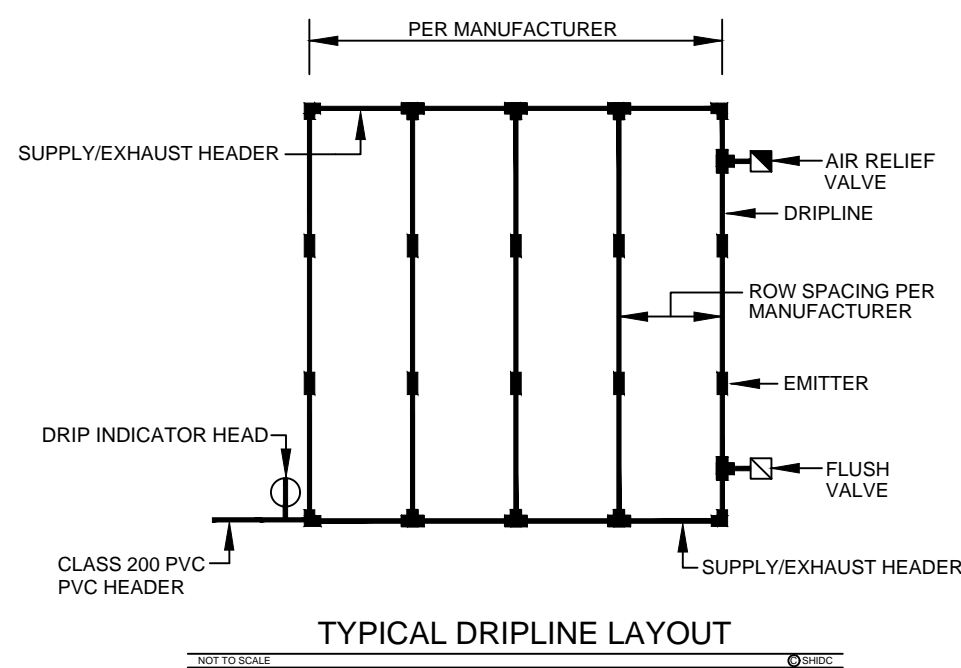
AIR RELIEF VALVE



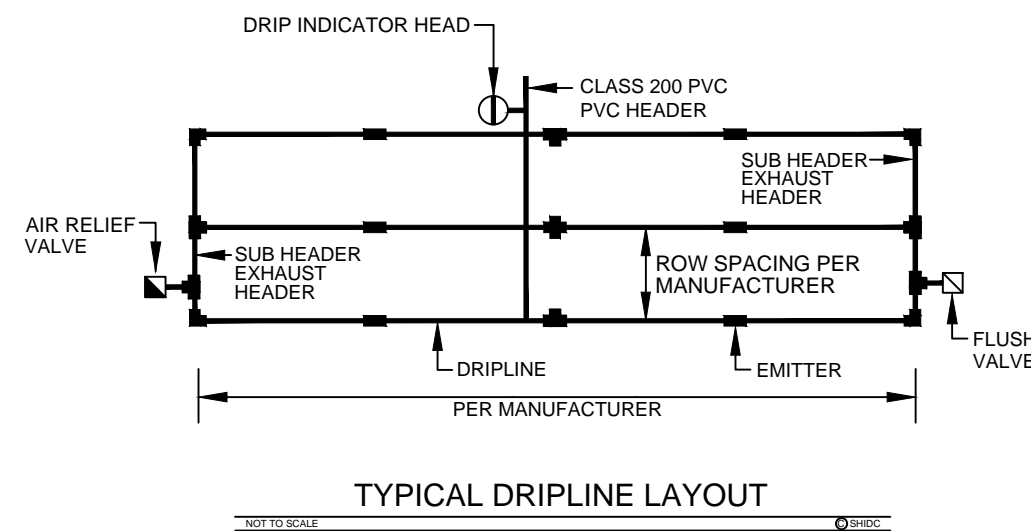
AUTOMATIC FLUSH VALVE



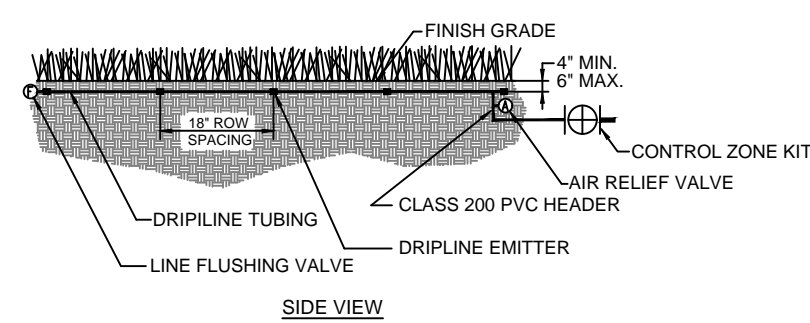
REMOTE CONTROL DRIP ZONE KIT



TYPICAL DRIPLINE LAYOUT



TYPICAL DRIPLINE LAYOUT



TYPICAL SUBSURFACE DRIPLINE LAYOUT

NOTES:

- ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE 3M-DBY PERMANENT AND WATERPROOF PER THE SPECIFICATIONS.
- COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
- PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
- LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. ALL FITTINGS TO BE SCHEDULE 40 PVC. USE WELD-ON #705 SOLVENT AND #P-68 PRIMER FOR PVC CONNECTIONS PER THE SPECIFICATIONS.
- SIZE ALL LATERAL PIPING PER MANUFACTURER'S RECOMMENDATIONS OF NOT EXCEEDING 5 FPS. REFERENCE PIPE SIZE CHART.
- CONNECT TREE BUBBLER AND DRIP INDICATOR HEADS TO LATERAL PIPING WITH HUNTER 1/2" SJ SWING JOINT.
- INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOX. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH HUNTER HSJ SWING JOINT. SUPPLY OWNER WITH ONE (1) COUPLER KEY WITH SWIVEL HOSE BIBB EACH. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH. INSTALL EVERY 150'-0" ON CENTER ALONG ENTIRE LENGTH OF MAINLINE.
- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOCATED IN A JUNCTION BOX AND HARDWIRED WITHIN FIVE (5') FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR.
- INSTALL REMOTE CONTROL VALVES AND WIRE SPLICES IN TEN (10") INCH HIGHLINE VALVE BOXES.
- INSTALL SLEEVES UNDER ALL HARDSCAPE SURFACES SUCH AS ROADS, DRIVES, WALKS, ETC. WHETHER SHOWN OR NOT. SLEEVES SHALL BE CLASS 200 PVC, SIZED AS NOTED ON PLANS AND INSTALLED BY IRRIGATION CONTRACTOR.
- ADJUST NOZZLES FOR SITUATIONS THAT REQUIRE LESS THAN 90 DEGREE RADIUS SPRAY. THIS MAY REQUIRE ADJUSTABLE NOZZLES. NO OVERSPRAY ALLOWED ON ANY HARDSCAPE SURFACES.
- DESIGN PRESSURE IS 56.0 PSI. STATIC PRESSURE IS 65 PSI. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN STATED DO NOT START WORK UNTIL NOTIFIED TO PROCEED.
- MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE EIGHTEEN (18") INCHES AND MINIMUM HORIZONTAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
- INSTALL REMOTE CONTROL DRIP ZONE KITS IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOXES.
- INSTALL DRIPLINE MINIMUM OF 2" AND A MAXIMUM OF 4" FROM HARDSCAPE SURFACES. STAKE DRIPLINE AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE BEFORE INSTALLATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDATIONS OF 5'-0" PS IN DRIPLINE.
- PROVIDE AND INSTALL DISTRIBUTION TUBING, STAKES, EMITTERS, TRANSFER FITTINGS, DIFFUSER BUG CAP, CONTROL ZONE KITS, ETC. NECESSARY FOR PROPER INSTALLATION OF THE BEDS. ALL PVC HEADER PIPING TO BE CLASS 200 PVC SOLVENT WELD PIPE. INSERT ALL HUNTER PLD BARBED FITTINGS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ONE DRIP INDICATOR HEAD FOR EACH DRIP ZONE. INDICATOR HEAD TO BE A HUNTER ECO INDICATOR HEAD.
- AIR/VACUUM RELIEF VALVE TO BE HUNTER PLD-ARV INSTALLED IN A SIX-INCH (6") HIGHLINE VALVE BOX WITH 6" OF GRAVEL SUMP. AUTOMATIC FLUSH VALVE TO BE HUNTER AFV INSTALLED IN A SIX-INCH (6") HIGHLINE VALVE BOX WITH 6" OF GRAVEL SUMP.
- ALL HUNTER PLD-CV DRIPLINE AND DISTRIBUTION TUBING TO BE INSTALLED BELOW FINISH GRADE APPROXIMATELY 4" TO 6" PER MANUFACTURER'S RECOMMENDATIONS. ALL DRIPLINE TO BE INSTALLED MINIMUM OF 1'-0" AND MAXIMUM OF 1'-2" ROW SPACING UNLESS INSTRUCTED OTHERWISE. VERIFY THE EXACT EMITTER FLOW, EMITTER SPACING, AND ROW SPACING WITH MANUFACTURER PRIOR TO INSTALLING TO PROVIDE PROPER PRECIPITATION RATE BASED ON PLANT MATERIAL AND SOIL TYPE. TUBING TO BE STAKED WITH 12 GA. GALVANIZED TIE DOWNS. INSTALL STAKES EVERY 3'-0" ALONG LENGTH OF TUBING AND A MINIMUM OF 24" FROM ANY FITTINGS.
- INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS OF EXHAUST HEADER. ALLOW FOR APPROXIMATELY ONE (1) AIR RELIEF VALVE AND APPROXIMATELY ONE (1) FLUSH VALVE FOR EACH DRIP ZONE KIT.
- WHERE POSSIBLE LOCATE ALL MAINLINES, VALVES, OR CONTROL WIRES SHALL BE LOCATED AND INSTALLED OUTSIDE RIGHT-OF-WAY.
- ALL STATE OF NEW MEXICO LAWS/RULES AND ALL LOCAL CODES/ORDINANCES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT THEY ARE TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF NEW MEXICO OR LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.