GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND

- STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY

- MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS

- 18. PER SECTION 128.0.A.1a OF THE ZONING REGULATIONS, THE CANOPY IS CONSIDERED A
- INCLUDE, BUT ARE NOT LIMITED TO, THOSE WHICH HAVE SWIMMING POOLS, OR THAT SELL PREPARED OR PACKAGED FOODS, OR THAT MAY HAVE EQUIPMENT THAT EMITS RADIATION

HOWARD COUNTY STANDARD GENERAL NOTES FOR

COMMERCIAL DEVELOPMENT:

- AREA COVERED BY AN IMPERVIOUS SURFACE AND LOCATED IN THE PRIORITY FUNDING AREA MEETS THE CRITERIA FOR EXEMPTIONS TO REQUIREMENTS FOR FOREST

DPZ FILE REFERENCES

- 2. HOWARD COUNTY SITE DEVELOPMENT PLAN (SDP) #92-113

CALL 48 HOURS

BEFORE YOU DIG

IT'S THE LAW!

DIAL 811

- PLAT 10538-10543 (F-92-140) 6. WATER CONTRACT: 23-3185-D
- SEWER CONTRACT: 23-3185-D

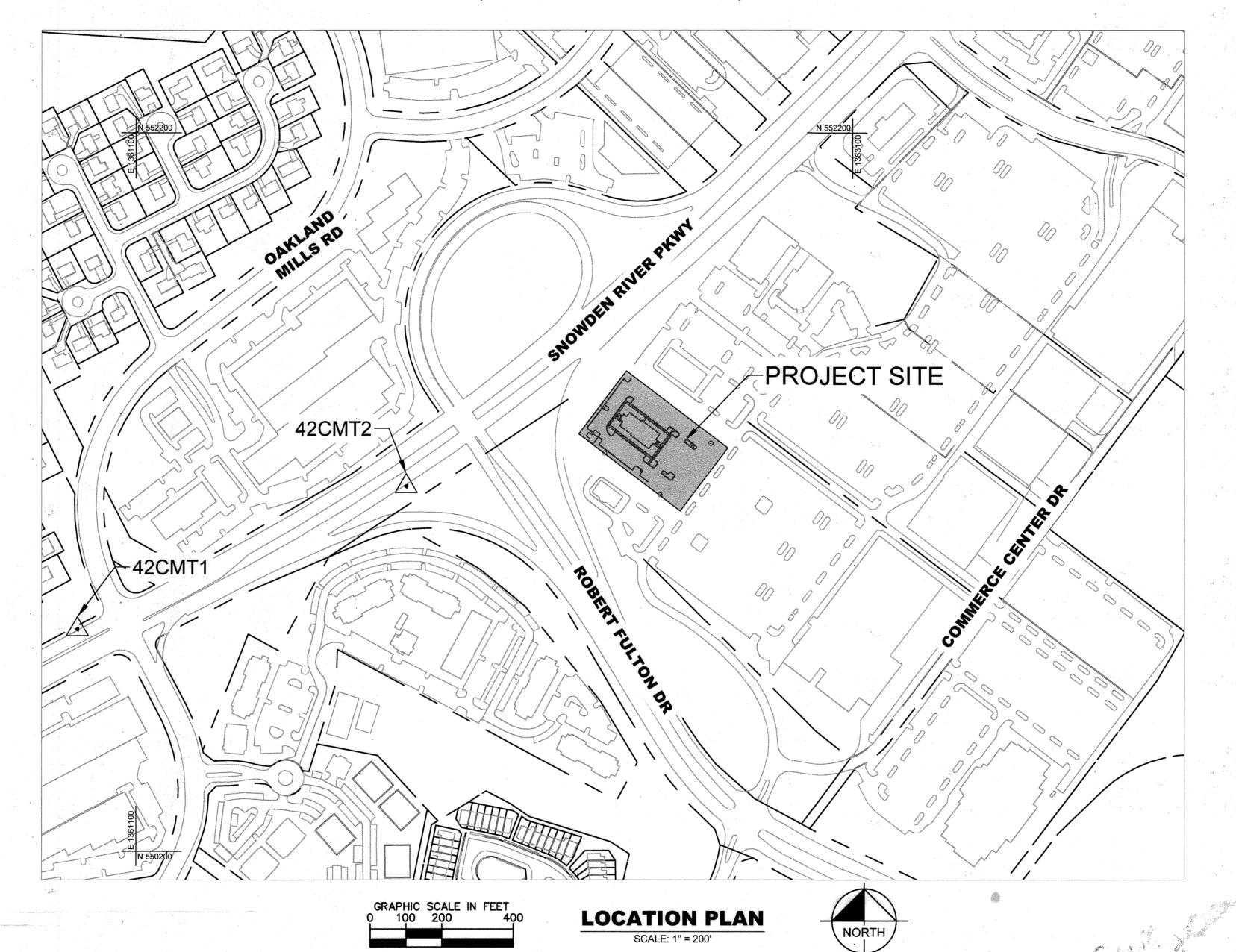
	PARKI	NG SCHEI	DULE	
	DESCRIPTION	RATE	REQUIRED	PROVIDED
	RESTAURANTS - FAST FOOD 3,658 SQ. FT. GROSS FLOOR AREA	14.0 SPACES PER 1,000 SQ. FT.	52	
PARKING	RESTAURANTS - OUTDOOR SEATING 477 SQ. FT. SEATING AREA	FAST FOOD: 3.0 SPACES PER 1,000 SQ. FT.	2	75
	TOTAL NUMBER OF PARKING	SPACES	54	75
ACCESSIBLE		3 SPACES/51 TO 75 SPACES PROVIDED	3	4

	Tab	le 1 - Site	Generat	ed Traffic Vol	umes					
Phase	Land Use	Land Use Scale Units Land Use AM Peak Hour	PN	PM Peak Hour						
				Code	In	Out	Total	In	Out	Total
	High-Turnover (Sit-Down) Restaurant	5,695	SF	932	30	25	55	31	21	52
Existing		Pas	s-By Trips	(PM = 43%)	-		~	11	11	22
	E)	xisting N	et, New E	xternal Trips	30	25	55	20	10	30
оенескимом/моженовисимически.	Fast-Food Restaurant with Drive- Through Window	3,658	SF	934	83	80	163	63	58	121
Proposed	Pass-	By Trips (AM = 49%	%, PM = 50%)	40	40	80	31	29	60
	Pro	posed No	et, New E	xternal Trips	43	40	83	32	29	61
		Ne	t Change	in Site Trips	13	15	28	12	19	31

loward County Health Department

SITE DEVELOPMENT PLAN RAISING CANE'S - COLUMBIA, MD

9071 SNOWDEN RIVER PARKWAY, COLUMBIA, MD 21046 **ELECTION DISTRICT NO. 6** TAX MAP 0042, GRID 0006, PARCEL 0513



Horizontal datum for this as-built survey is loased on the Manyland State Reference system NAD'63/2011. As projected by Howard Country Geodetic Control Stations 42CA, 42CC.

Vertical datum for this as-boilt survey is North American vertical Datum (NAVD) 1988 as projected by aBOID 126-

This ac-built survey was completed by Johnson Bernat Associates, Inc.

The instruments were used in performing this as touilt. 3-second Robotic Total Station

ARCHITECT

PM DESIGN, INC ATTN: TIM PRINCEHORN 6530 WEST CAMPUS OVAL SUITE 190 NEW ALBANY, OH 43054

TEL: (614)-610-9616 EMAIL: TPRINCEHORN@PMDESIGN.COM

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS 12/20/2022 Michael J. Davis County Health Officer

SURVEY INFORMATION

GRS GROUP, LLC ATTN: KEVIN STEINHILBER 6703 DELAND COURT SPRINGFIELD, VA 22152 TEL: (703) 727-5828

AS-BUILT CERTIFICATION

i hereby certify, by my seal, that to the best of my knowledge and bell of the facilities shown on this plan were constructed as shown on

this "AS-BUILT" plan moset the Approved plans and specifications.

NAME Emily Dean DATE 115/23

CIVIL ENGINEER LANDSCAPE ARCHITECT

KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY A. DEAN, PE W. DAVIS WALKER, PLA 215 WASHINGTON AVE TOWSON, MD 21204 TEL: (443) 743-3470 EMAIL: EMILY.DEAN@KIMLEY-HORN.COM EMAIL: DAVIS.WALKER@KIMLEY-HORN.COM

OWNER

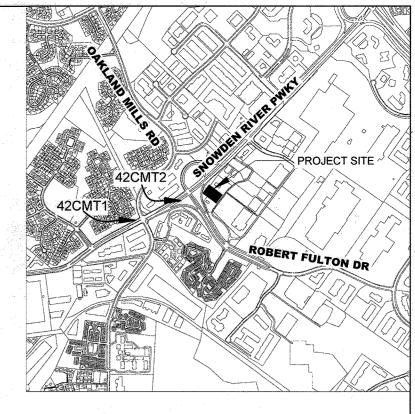
ADC MAP 5053-J2

NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE SUITE 900 ORLANDO FL 32801

DEVELOPER

RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD PLANO, TX 75024 TEL: 931-993-5258 EMAIL: FELICIA.BIVENS@GMAIL.COM

I HEREBY CERTIFY THAT THE DATA SHOWN ON THIS DRAWING, OBTAINED UNDER MY SUPERVISION, IS AN ACCURATE AND COMPLETE REPRESENTATION OF WHAT WAS CONSTRUCTED IN THE FIELD AND THAT THE PHYSICAL DIMENSIONS OR ELEVATIONS SHOWN ARE THUS AS BUILD CONDITIONS, EXCEPT OTHERWISE NOTED HEREON.



VICINITY MAP

Sheet List Table

Sheet Number	Sheet Title		
1	COVER SHEET		
2	EXISTING CONDITIONS		
3	SITE PLAN		
4 instance of the second of th	DRIVE THRU OPERATION		
<u>~5</u>	SITE DETAILS		
-6	SITE DETAILS		
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-8	ARCHITECTURAL DETAILS		
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23	UTILITY PROFILES		
24	UTILITY DETAILS		
25	LANDSCAPE PLAN		

SITE ANALYSIS DATA CHART

TOTAL PROJECT AREA	1.793 ACRES (78,100 SF)
ZONING	B-2 (BUSINESS GENERAL)
EXISTING USES	STANDARD RESTAURANT
PROPOSED USES	FAST FOOD RESTAURANT
LOD AREA	1.18 ACRES (49,915 SF)
GREEN OPEN AREA (PROJECT AREA)	0.42 ACRES (18,438 SF)
PROPOSED IMPERVIOUS AREA (PROJECT AREA)	1.37 ACRES (59,662 SF)
WETLAND AREA	0 ACRES
WETLAND BUFFER AREA	0 ACRES
STREAM AREA	0 ACRES
STREAM BUFFER AREA	0 ACRES
FLOODPLAIN AREA	0 ACRES
STEEP SLOPE AREA (>15%)	0 ACRES
EXISTING # PARKING SPACES	132 (127 STANDARD, 5 ADA)
REQUIRED # PARKING SPACES	54 (52 STANDARD, 2 ADA)
PROPOSED # PARKING SPACES	75 (71 STANDARD, 4 ADA)
EXISTING FLOOR AREA	5,695 SF
PROPOSED FLOOR AREA	3,658 SF
OUTDOOR SEATING AREA	477 SF

APPROVED: DE	PARTMENT OF PLANNING A	AND ZONING 12/19/2022
Chief, Development E	ngine giring Division	Date 12/19/2022
Chief, Division of Lan	d Devel Bonnent Docusigned by:	Date 12/20/2022
Planning Director	5B4D5DD9470C4D4	Date

LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

PERMIT INFORMATION CHART Subdivision Name GATEWAY COMMERCE CENTER Plat # or L/F 10805 Grid # Zoning 0006 B-2



9071 SNOWDEN RIVER PARKWAY

COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A



COLUMBIA, MARYLAND

6TH ELECTION DISTRIC 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-318

DEVELOPER: RAISING CANE'S ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 7502 931-993-5258

ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500

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Prototype :	P4EV- AV 2020 - 2	2.0 RELEASE
Prototype Issue	Date:	7.14.2020
Design Bulletin	Updates:	
Date Issued:	Bulletin Number:	

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PHONE: 703-674-1300 FAX: 703-674-1350

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COVER SHEET

9/26/2028 11/09/202 Project Number:

Sheet Number: AS-BUILT

EX CONDITIONS LEGEND

ADJACENT PROPERTY LINE **EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR** EXISTING SEWER LINE **EXISTING STORM DRAIN EXISTING WATER LINE** EXISTING DRAINAGE EASEMENT EXISTING UTILITY EASEMENT **EXISTING STORM DRAIN MANHOLE EXISTING CLEANOUT EXISTING SEWER MANHOLE** EXISTING FIRE HYDRANT **EXISTING WATER VALVE** EXISTING TRANSFORMER EXISTING LIGHTPOLE

EXISTING ELECTRIC PANEL EXISTING GAS METER

EXISTING PARKING COUNT

EXISTING TREE

EXISTING BUILDING SLOPES 15-24.9%

SLOPES 25% OR GREATER

- THE EXISTING INFORMATION AND TOPOGRAPHY IS TAKEN FROM ALTA/NSPS LAND TITLE SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY GRS GROUP, LLC DATED 10/14/21.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY BENCHMARKS 42CMT1 AND 42CMT2 WERE USED FOR THIS PROJECT.
- THE PROPERTY IN EXISTING CONDITIONS HAS 132 DEFINED PARKING
- THE EXISTING PROPERTY COMPRISES OF A +/- 5,695 SF RESTAURANT THIS STRUCTURE IS TO BE DEMOLISHED WITH THE PROPOSED DEVELOPMENT
- THERE ARE NO EXISTING SPECIMEN TREES LOCATED ON-SITE.

9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE

DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 43160 EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY

COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 ZONING B-2 **6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204 443-884-5085

Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: 7.14.2020

Design Bulletin Updates: Date Issued: Bulletin Number:

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PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

Sheet Title: Date 12/19/2022

Chief, Division of Land Development 12/20/2022 lanning Director \$\bigsets_{584D5DD9470C4D4}\$

(Hal) Edmondson

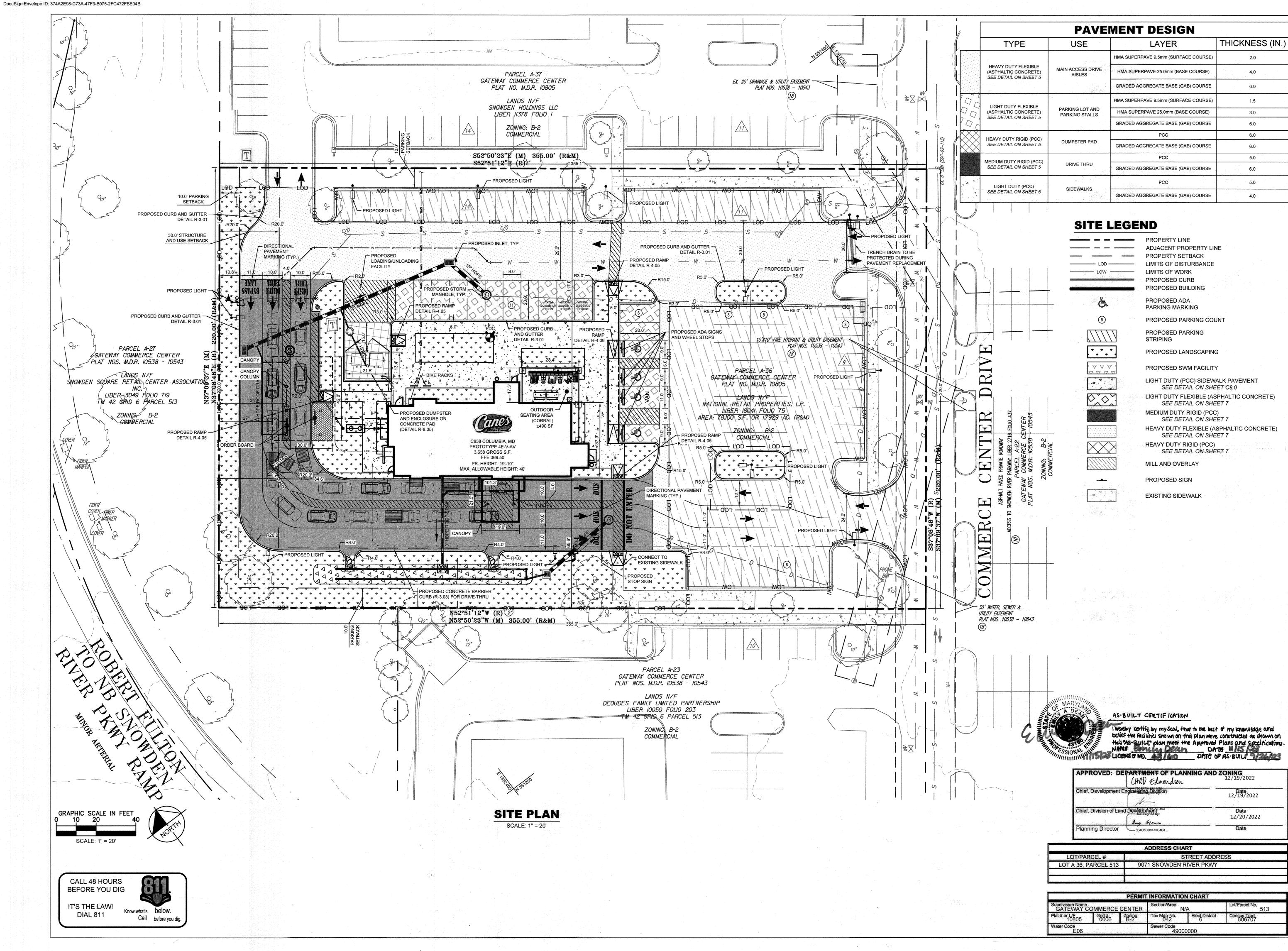
ADDRESS CHART STREET ADDRESS 9071 SNOWDEN RIVER PKWY

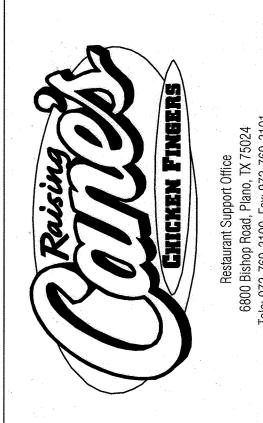
PERMIT INFORMATION CHART GATEWAY COMMERCE CENTER **513** Census Tract 606707 Sewer Code 49000000

EXISTING CONDITIONS

Sheet Number:

11/09/2022 Project Number: 110723018 Drawn By: Checked By:





9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



9071 SNOWDEN RIVER PKWY

COLUMBIA, MARYLAND

TAX MAP: 42 PARCEL: 513

ZONING B-2

6TH ELECTION DISTRICT

2ND COUNCIL DISTRICT

WATER & SEWER CONTRACT #: 24-3185

OWNER: NATIONAL RETAIL PROPERTIES LP

ORLANDO, FL 32801

450 S ORANGE AVE, SUITE 900

DEVELOPER, RAISING CANE'S

ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024

931-993-5258

ENGINEER: KIMLEY-HORN AND

ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500

RESTAURANTS, LLC

PROPOSED SWM FACILITY PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LIGHT DUTY (PCC) SIDEWALK PAVEMENT LAWS OF THE STATE OF MARYLAND. LICENSE NO. <u>43160</u> EXPIRATION DATE <u>12/19/202</u>:

THICKNESS (IN.)

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SEE DETAIL ON SHEET C8.0 LIGHT DUTY FLEXIBLE (ASPHALTIC CONCRETE)

SEE DETAIL ON SHEET 7 MEDIUM DUTY RIGID (PCC) SEE DETAIL ON SHEET 7

HEAVY DUTY FLEXIBLE (ASPHALTIC CONCRETE) SEE DETAIL ON SHEET 7

HEAVY DUTY RIGID (PCC) SEE DETAIL ON SHEET 7

MILL AND OVERLAY

TOWSON, MD 21204 443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE

7.14.2020 Prototype Issue Date:

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Sheet Title:

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Drawn By:

Date 12/19/2022

12/20/2022

Lot/Parcel No. 513

Census Tract 606707

STREET ADDRESS

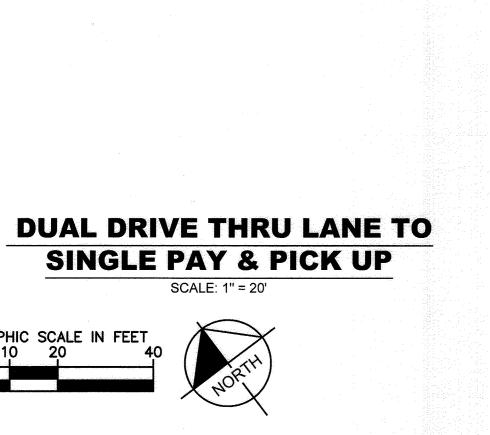
SITE PLAN

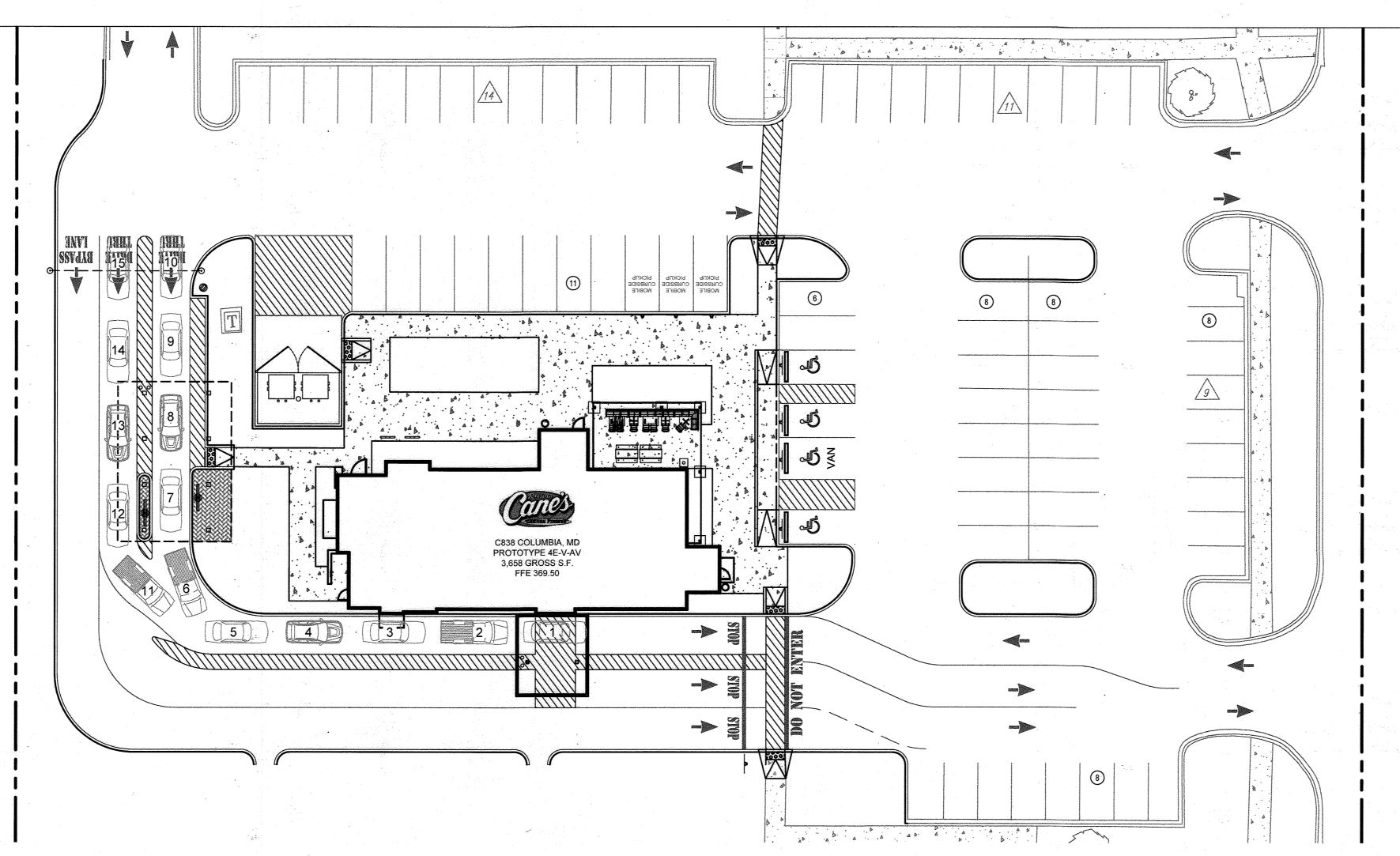
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Checked By:

Sheet Number: MS-BUILT

3 OF 26





DRIVE THRU OPERATION NOTES:

DUAL LANES ARE USED TO INCREASE CAPACITY AND ASSIST WITH SPEED OF SERVICE. THE FUNCTION IS AS FOLLOWS:

- CUSTOMER ENTERS DRIVE-THROUGH IN EITHER LANE 1 OR LANE 2 AND
- APPROACH THEIR RESPECTIVE MENU BOARD. ORDERS ARE TAKEN VIA THE BUILT-IN INTERCOM SYSTEM ON THE MENU BOARD.
- AFTER THE ORDER IS PLACED, CUSTOMERS MOVE FORWARD TOWARDS THE FIRST WINDOW, WHICH IS A DEDICATED PAY WINDOW. a. IF THE CUSTOMER IS IN LANE 2, THEY MERGE INTO LANE 1 TO GET TO THE
- b. ORDERS ARE TAKEN IN ALTERNATING SEQUENCE BETWEEN LANES 1 AND
- 2 TO STAGGER THE MERGING CARS.
- PAYMENT IS TAKEN AT THE FIRST WINDOW. THE CUSTOMER PULLS UP TO THE SECOND WINDOW AND RECEIVES THEIR

IF THE RESTAURANT IS BUSY, BOTH LANES CAN BE USED FOR FULL STACKING, WHERE THE MERGING FROM LANE 1 TO LANE 2 IS NOT IN PLACE AND LANE 2 IS USED

- FOR PICKUP AND ADDITIONAL STACKING. THE MENU BOARDS ARE OFF DURING THIS TIME.
- CUSTOMERS ENTER THE DRIVE THRU IN EITHER LANE 1 OR LANE 2 A CREWMEMBER (EMPLOYEE) GREETS THE CUSTOMER AT THEIR VEHICLE.
- CREWMEMBERS ARE LOCATED WITHIN STRIPED AREAS THE ORDER AND PAYMENT ARE TAKEN VIA TABLET
- *DURING THIS TIME THE MENU BOARDS AND ORDERING INTERCOMS ARE TURNED OFF* AFTER PAYMENT THE CUSTOMER IS USHERED FORWARD BY ADDITIONAL
- **CREWMEMBERS** *THE PAY WINDOW IS CLOSED DURING THIS TIME*
- FOOD IS USHERED TO THE CUSTOMER'S VEHICLE BY CREWMEMBERS IN
- STRIPED PATHWAYS FOOD IS PASSED THROUGH THE PICKUP WINDOW TO THE CREWMEMBER.
- AFTER RECEIVING THEIR FOOD, THE CUSTOMER IS USHERED FORWARD BY A
- CREWMEMBER TO FACILITATE LANES MERGING AS THE CUSTOMER LEAVES THE DRIVE THRU



9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838** P4EV-AV SCHEME A

EMILY A. DEAN Professional of Record:



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE

DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 43160
EXPIRATION DATE 12/19/2022 9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND

TAX MAP: 42 PARCEL: 513 **ZONING B-2 6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

> RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

DEVELOPER: RAISING CANE'S

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN
215 WASHINGTON AVE, SUITE 500
TOWSON, MD 21204

Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: Design Bulletin Updates:

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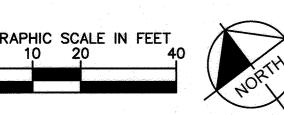
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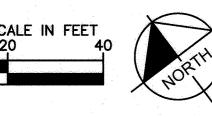
DRIVE-THRU OPERATION

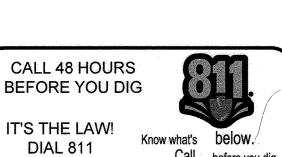
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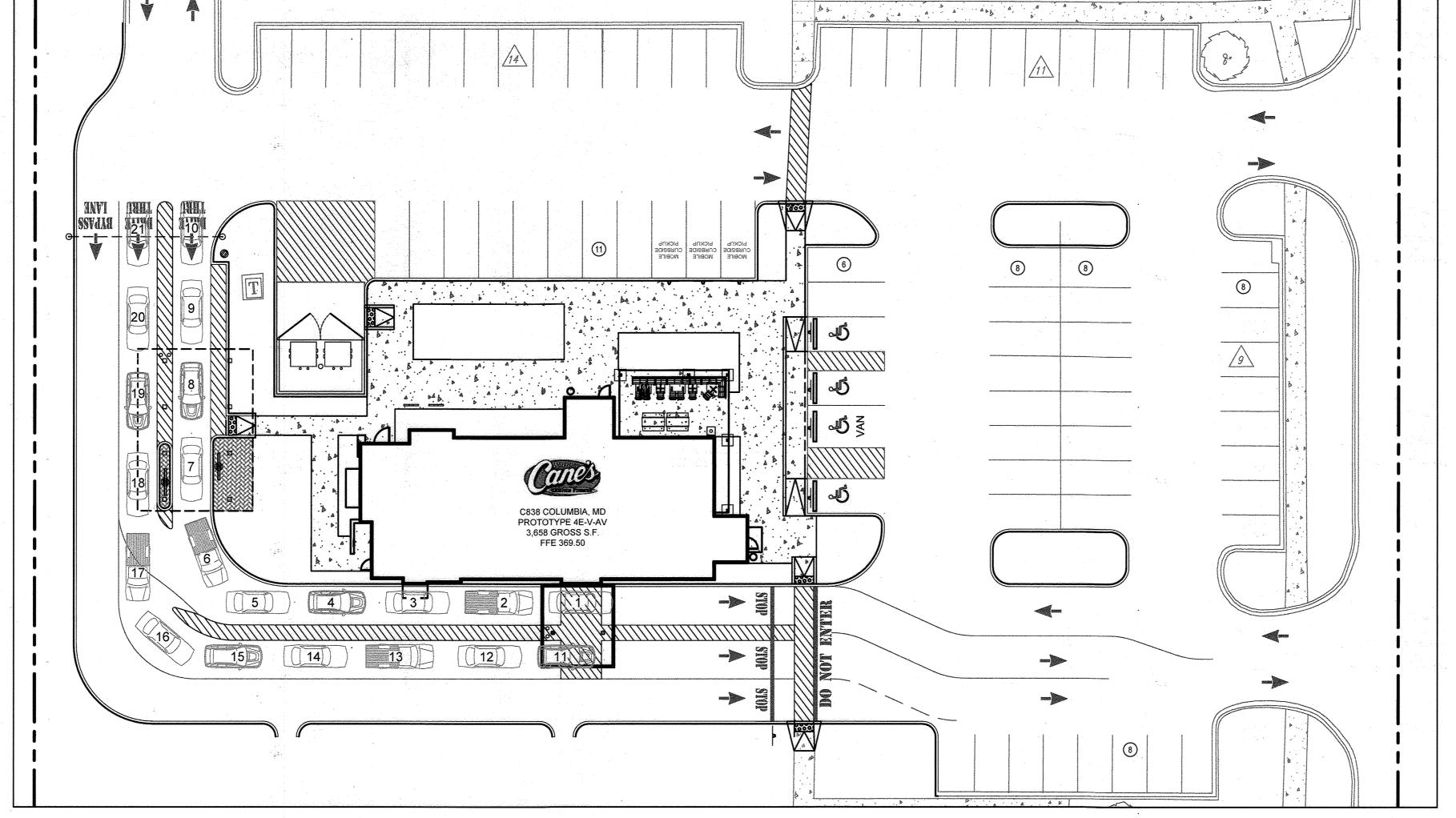
4 OF 26

DUAL DRIVE THRU LANE TO DUAL EXPO LANE SCALE: 1" = 20'









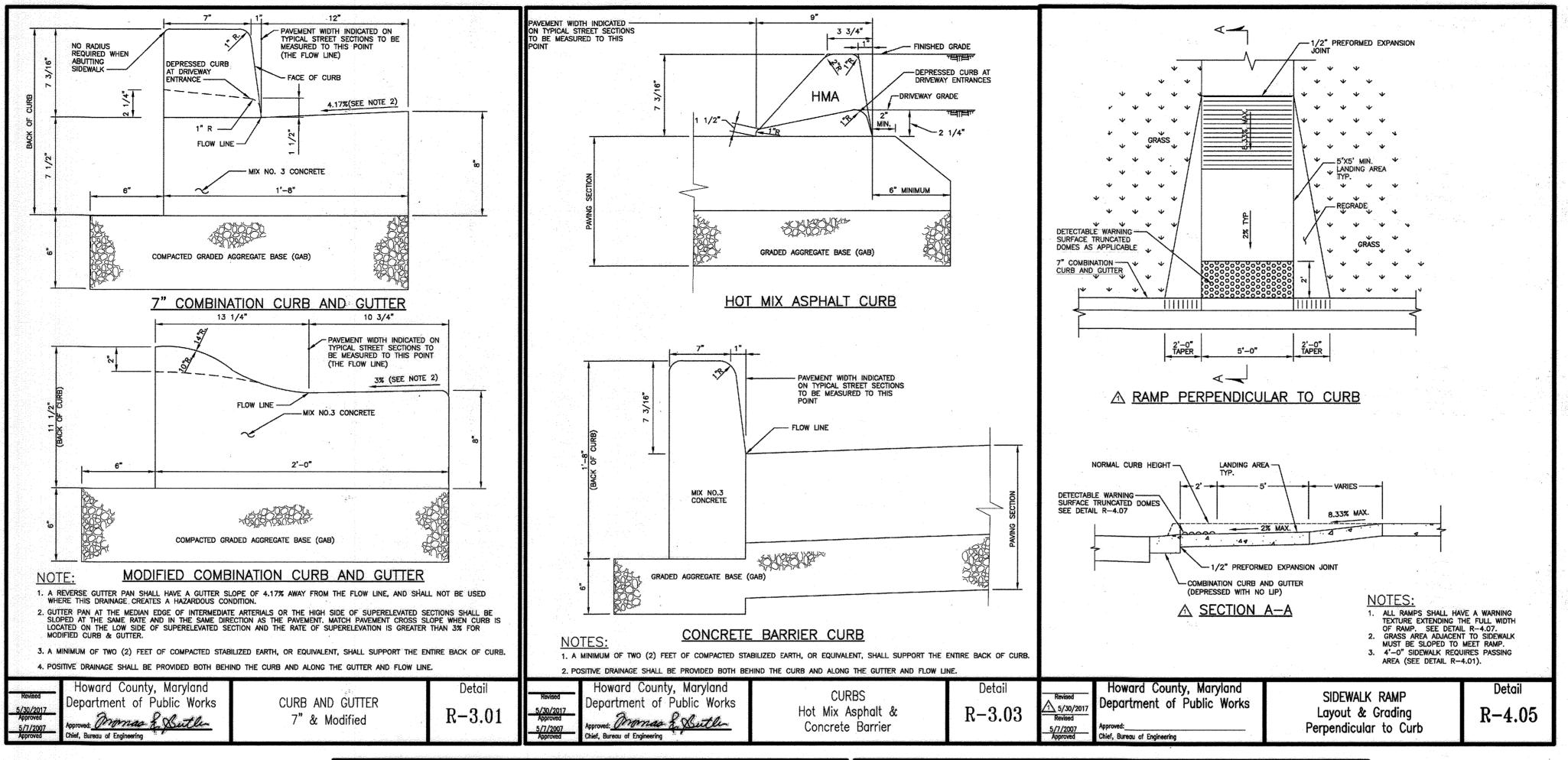


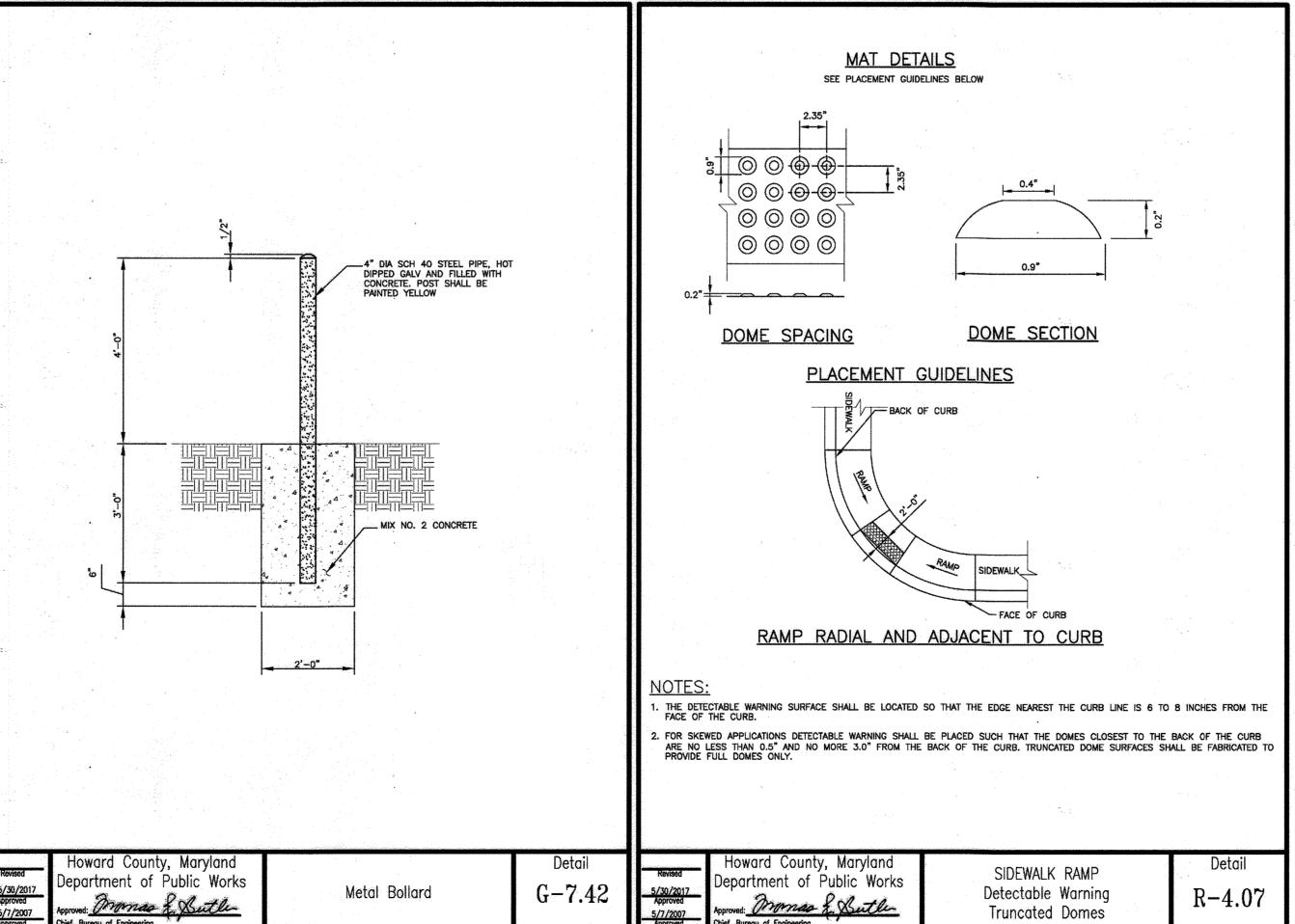
THERE IS NO "AS-BUILT" INFORMATION ON THIS SHEET

AGANOVED: DE	PARTMENT OF PLANNING (Ital) Edmondson	12/19/2022
Chief, Development E	nginegrog Division	Date 12/19/2022
Chief, Division of Lan	d Development B49A Docusigned by:	Date 12/20/2022
Planning Director		Date

LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

		PERMIT	TINFORMATIC	N CHART	
division Name SATEWAY C	OMMERCE	CENTER	Section/Area	I/A	Lot/Parcel No. 513
# or L/F 10805	Grid # 0006	Zoning B-2	Tax Map No. 042	Elect District	Census Tract 606707
ter Code E06			Sewer Code 4900	00000	







THERE IS NO "AK-BUILT" INFORMATION ON THIS SHEET.

	PARTMENT OF PLANNING (Hall) Edmondson	12/19/2022
Chief, Development E	ngine gring livision	Date 12/19/2022
Chief, Division of Land	Develorient Docusigned by:	Date 12/20/2022
Planning Director	5B4D5DD9470C4D4	Date

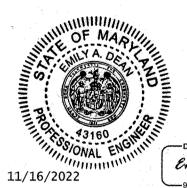
LOT/PARCEL#	STREET ADDRESS
OT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

and the second		PERMIT	INFORMATIO	N CHART		
Subdivision Name GATEWAY C	OMMERCE	CENTER	Section/Area N	VA.	Lot/Parcel No. 513	-
lat # or L/F 10805	Grid # 0006	Zoning B-2	Tax Map No. 042	Elect District	Census Tract 606707	
Vater Code E06			Sewer Code 4900	00000		



9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 43160 EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 **ZONING B-2 6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

> DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204

ŀ	Prototype:	P4EV- AV 2020 -	2.0 RELEASE
	Prototype Issue	Date:	7.14.2020
1	Design Bulletin	Updates:	
	Date Issued:	Bulletin Number:	
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SITE DETAILS

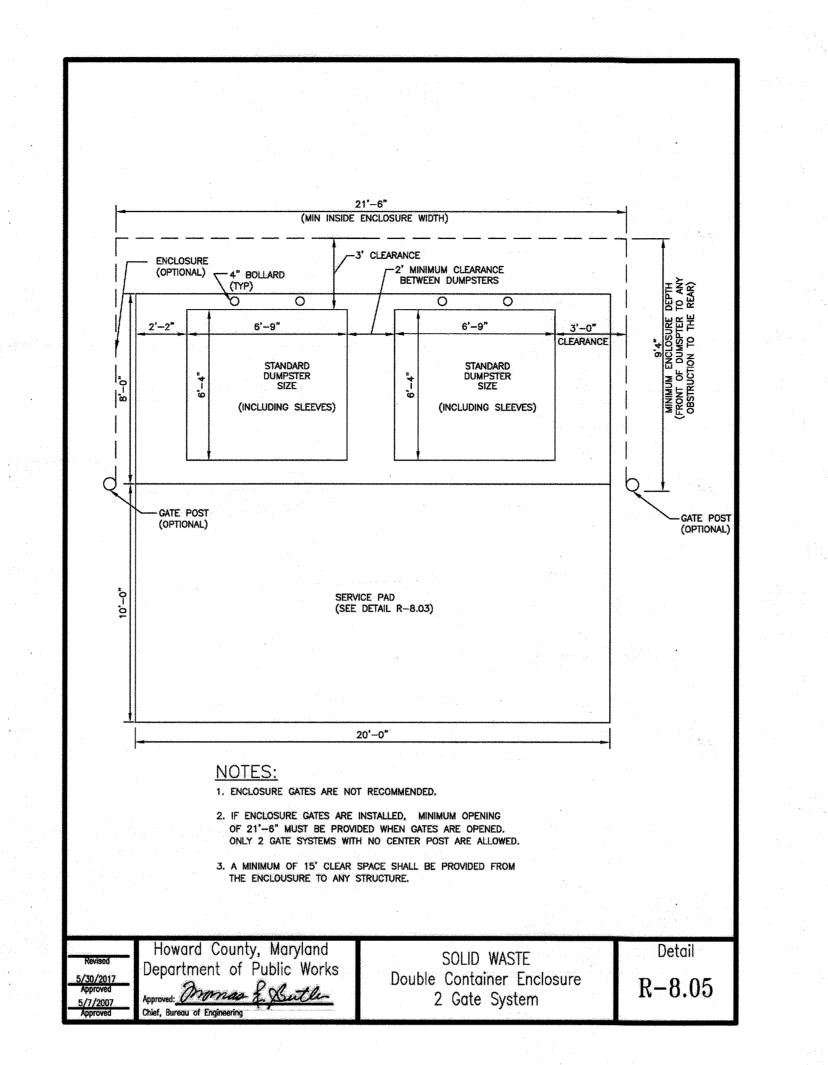
Date:	11/09/2022
Project Number:	110723018
Drawn By:	JAM
Checked By:	EAD
Sheet Number:	

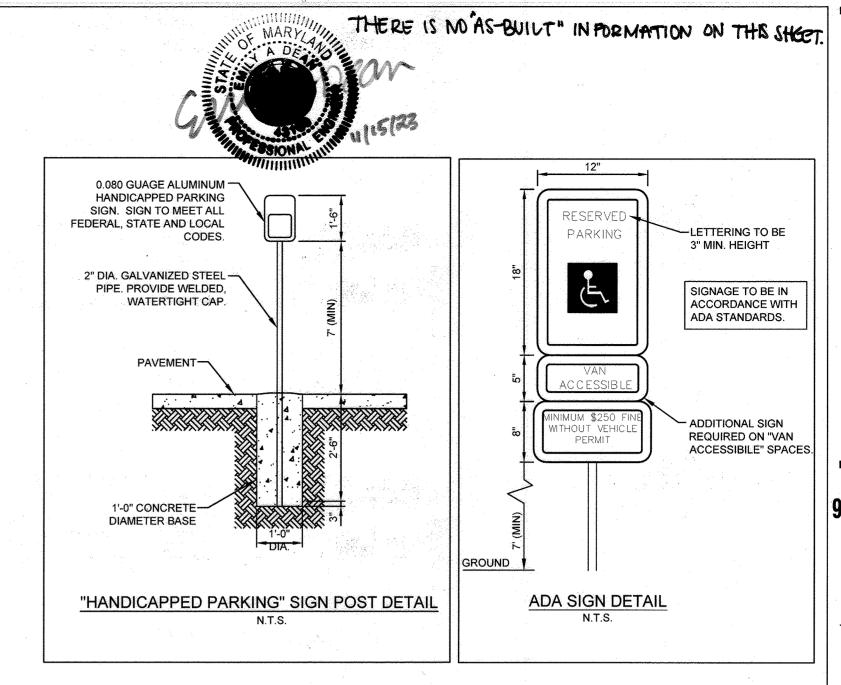
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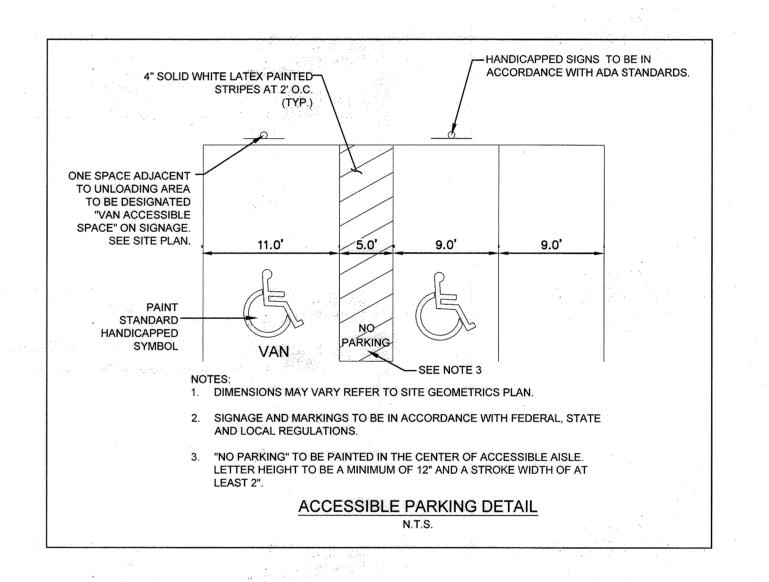


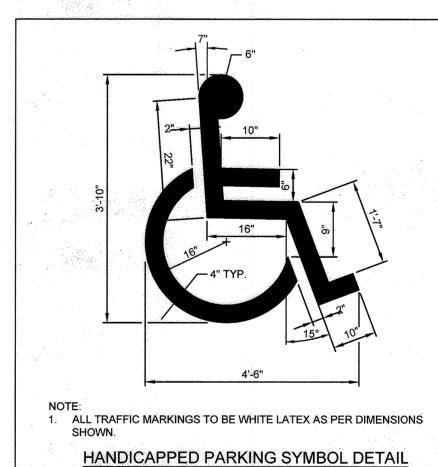
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IT'S THE LAW!





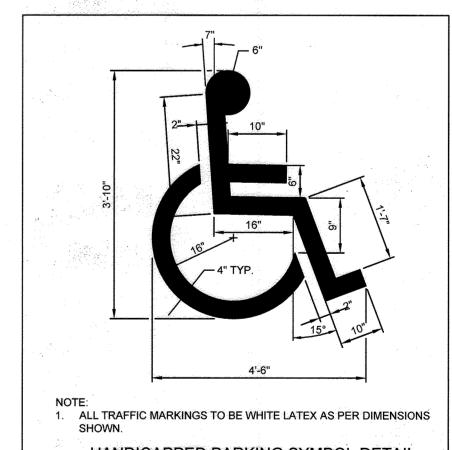




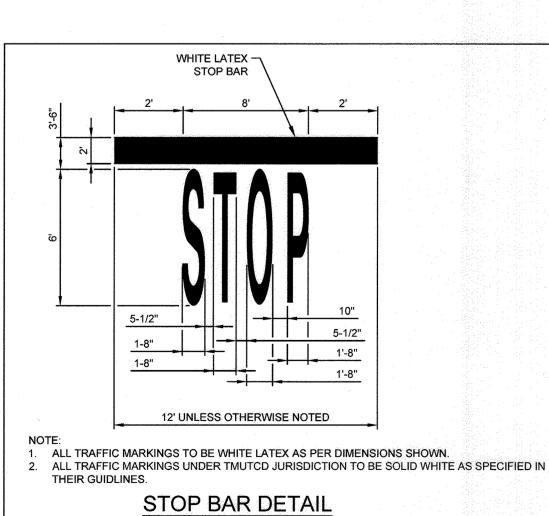
APPROVED: DE	PARTMENT OF PLANNING (HAD) Edmondson	AND ZONING 12/19/2022
Chief, Development E	ngine (100) livişion	Date 12/19/2022
Chief, Division of Lan	Development B49A Docusigned by: Amy 61 on an	Date 12/20/2022
Planning Director	584D5DD9470C4D4	Date

		ADDRESS CHART
LOT/PARCE	EL#	STREET ADDRESS
OT A 36; PAR	CEL 513	9071 SNOWDEN RIVER PKWY
		And the second s

PERMIT INFORMATION CHART Plat # or L/F 10805 Sewer Code 49000000



	ADDRESS CHART
LOT/PARCEL#	STREET ADDRESS
OT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY



Know what's below.

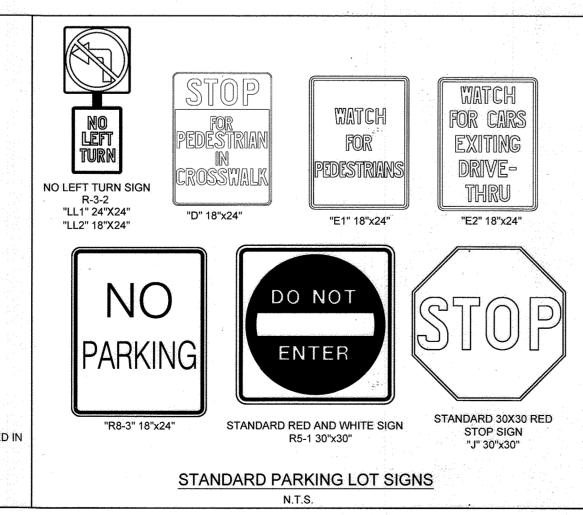
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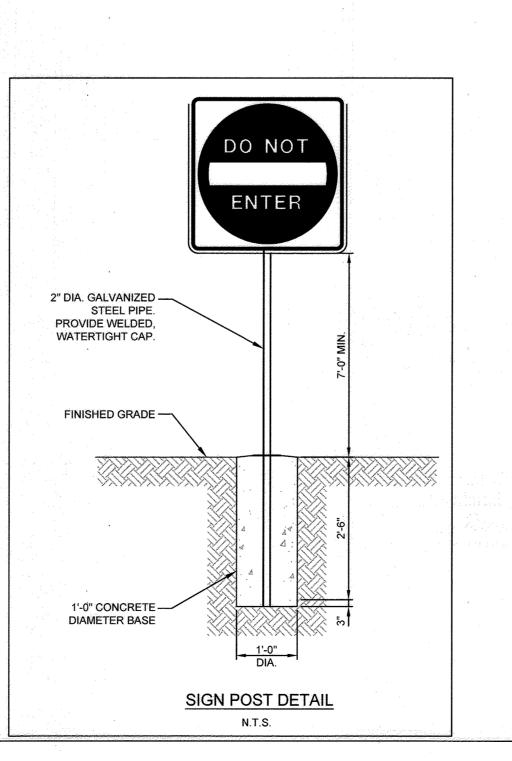
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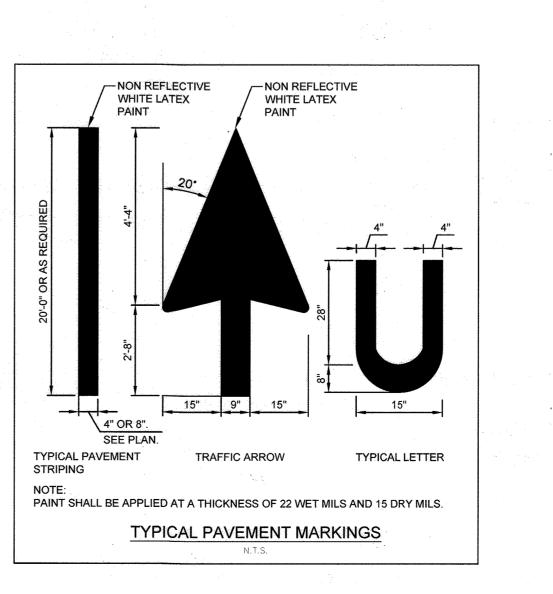
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DIAL 811

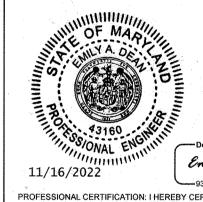






9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

EMILY A. DEAN Professional of Record:



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I

AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 43160
EXPIRATION DATE 12/19/2022 9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513

ZONING B-2 6TH ELECTION DISTRICT 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900

ORLANDO, FL 32801 DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024

931-993-5258 ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500

TOWSON, MD 21204 443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE 7.14.2020 Prototype Issue Date:

Date Issued: Bulletin Number:

Design Bulletin Updates:

FOR REVIEW

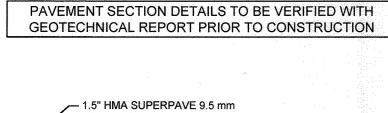
PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

RE\	VISIONS:	
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Sheet Title: SITE DETAILS

Date:

11/09/2022 Project Number: 110723018 Drawn By: Checked By: Sheet Number:



(SURFACE COURSE) The second second

3" HMA SUPERPAVE 25.0 mm (BASE COURSE)

- 6" GRADED AGGREGATE BASE 95% COMPACTED SUBGRADE

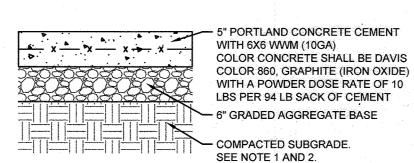
NOTES

1. PAVEMENT DESIGN BASED ON A SUBGRADE CBR DESIGN VALUE OF 4. SOIL TEST OF THE SUBGRADE MUST BE SUBMITTED FOR ACTUAL DETERMINATION OF REQUIRED PAVEMENT SECTION THICKNESS PRIOR TO CONSTRUCTION 2. ALL MATERIALS SHOULD MEET THE CURRENT MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

LIGHT DUTY ASPHALT PAVEMENT SECTION

MEDIUM DUTY CONCRETE

HEAVY DUTY CONCRETE



6" PORTLAND CONCRETE CEMENT x x x x x x x WITH 6X6 WWM (10GA) - 6" GRADED AGGREGATE BASE COMPACTED SUBGRADE. SEE NOTE 1 AND 2.

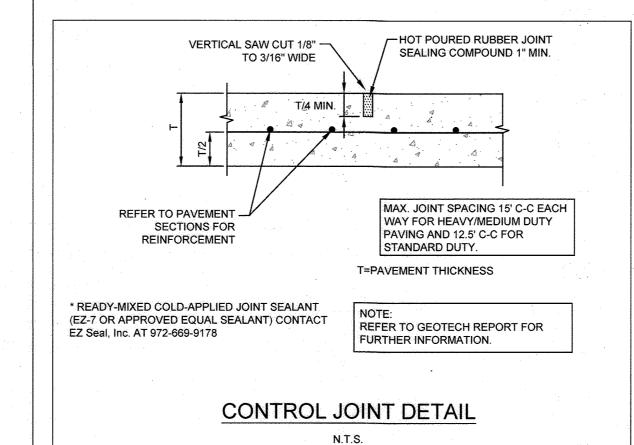
NOTE:

1. THE TOP 12 INCHES OF THE SUBGRADE SHOULD BE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM

DRY DENSITY AT A MOISTURE CONTENT WITHIN 2% POINTS OF ITS OPTIMUM MOISTURE. 2. THESE SECTIONS ARE PROVIDED FOR REFERENCE ONLY, ALL INFORMATION IS TAKEN FROM GEOTECH REPORT EY215020 DATED MAY 11, 2021 BY TERRACON, REFER TO GEOTECH REPORT FOR MORE INFORMATION.

3. ALL MATERIALS SHOULD MEET THE CURRENT MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

CONCRETE PAVEMENT SECTION



GRADED AGGREGATE COURSE - COMPACTED SUBGRADE

THIS DETAIL TO SUPPLEMENT THE CHARLES COUNTY STANDARD DETAIL (R2.28) SIDEWALK THICKNESSES NOTED ABOVE MUST BE APPLIED TO THE SITE WHICH HAS BEEN PREPARED AS RECOMMENDED IN THE GEOTECH REPORT. SOFT OR VERY LOOSE SOILS ARE NOT CONSIDERED SUITABLE FOR DIRECT SUPPORT OF SIDEWALKS AND SHOULD BE UNDERCUT TO A MINIMUM DEPTH OF 12 INCHES

- INTO FIRM EXISTING FILL/NATURAL SOILS AND REPLACED WITH NEW COMPACTED STRUCTURAL FILL. 3. THIS SECTION ARE PROVIDED FOR REFERENCE ONLY, ALL INFORMATION IS TAKEN FROM GEOTECH REPORT EY215020 DATED MAY 11, 2021 BY TERRACON. REFER TO GEOTECH REPORT FOR MORE INFORMATION
- 4. GRADED AGGREGATE BASE SHOULD MEET THE CURRENT MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

LIGHT DUTY CONCRETE PAVEMENT SECTION

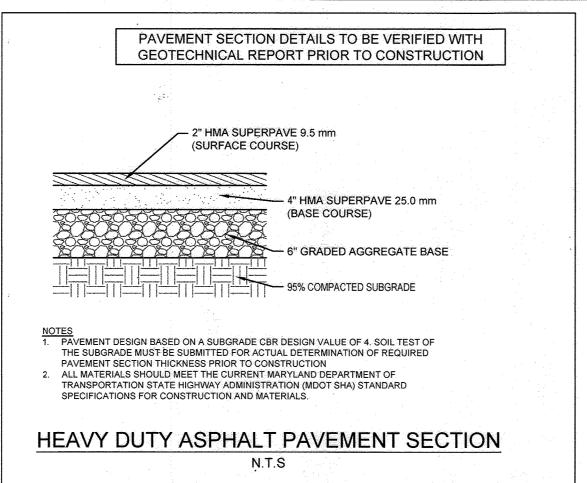
-HOT POURED RUBBER

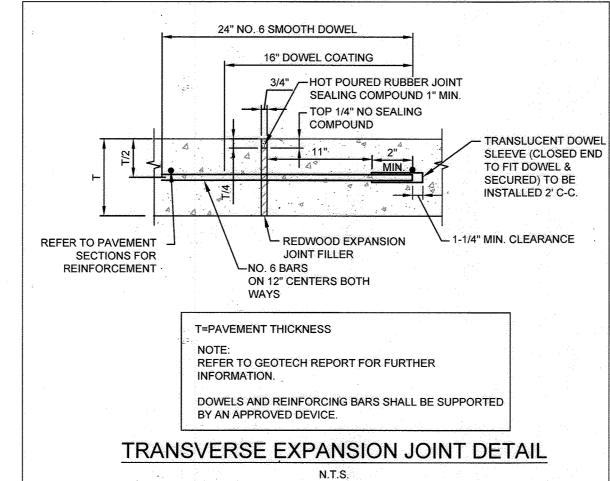
JOINT SEALANT

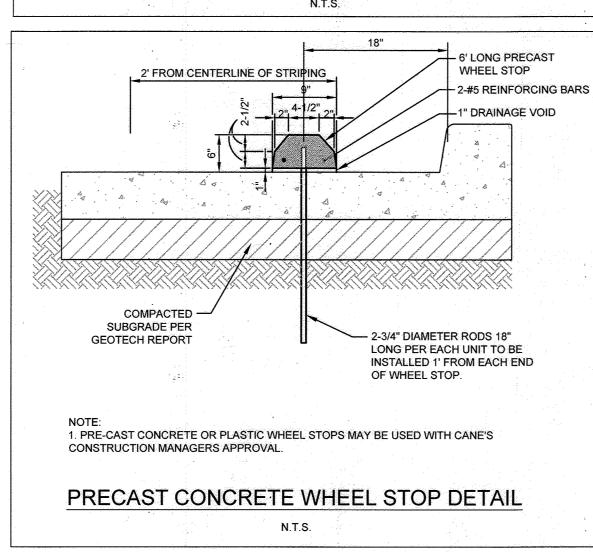
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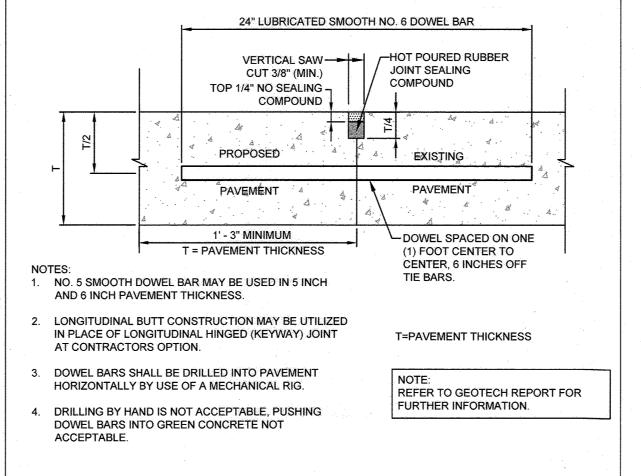
T=PAVEMENT THICKNESS

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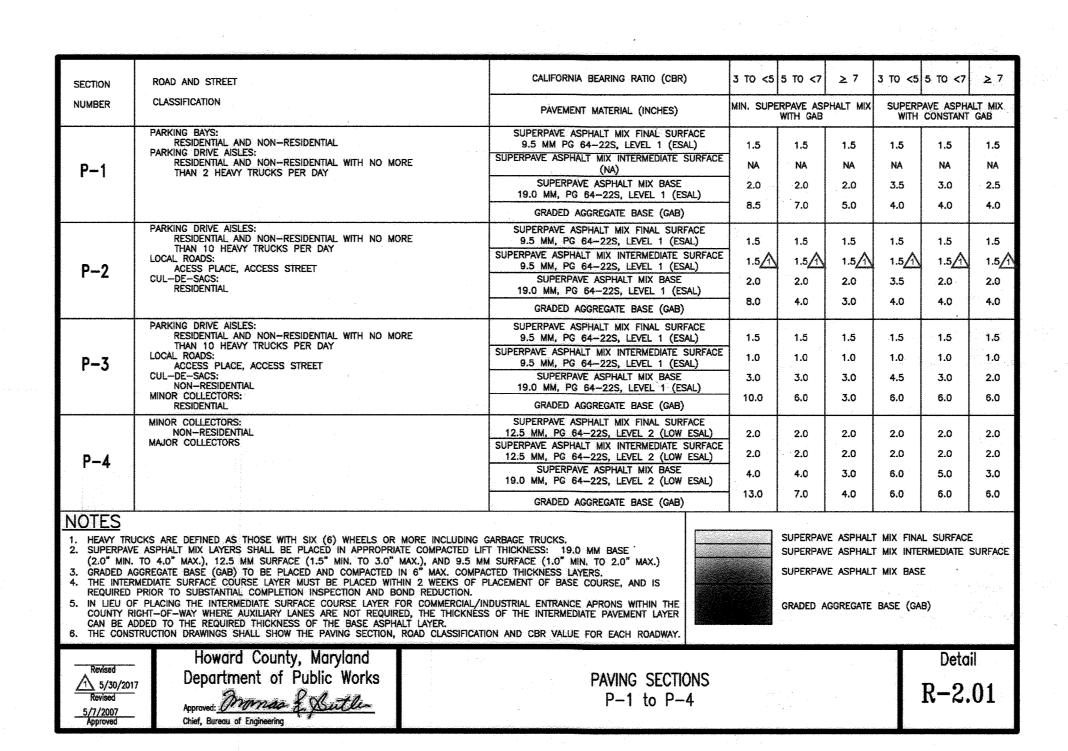


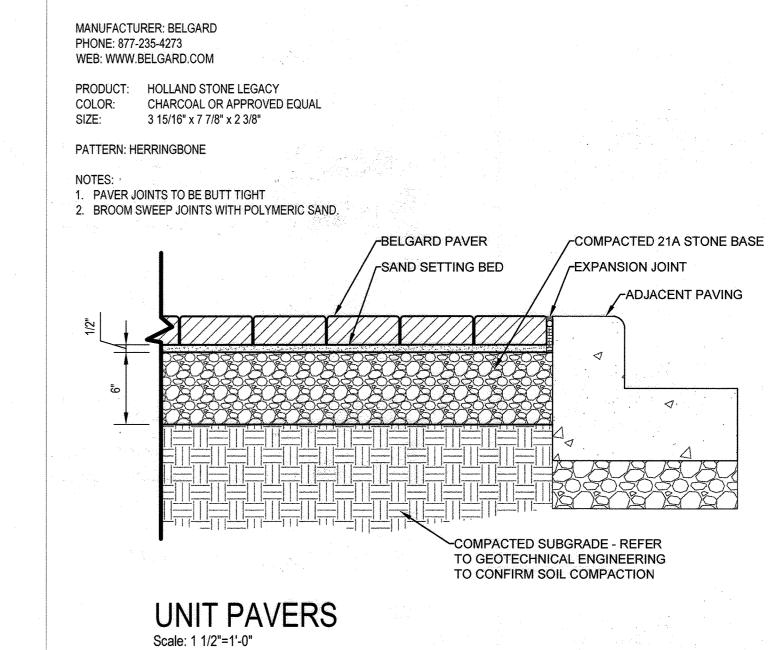


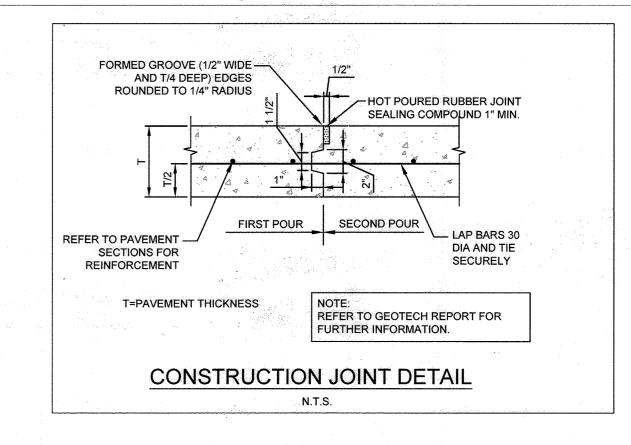




LONGITUDINAL BUTT JOINT DETAIL









THERE IS NO "AS-BUILT" INFORMATION ON THIS SHEET. APPROVED: DEPARTMENT OF PLANNING AND ZONING (Hal) Edmondson

Chief, Development Engineering Division Date 12/19/2022 Chief, Division of Land Development 12/20/2022 lanning Director _____5B4D5DD9470C4D4

	ADDRESS CHART
LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

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Plat # or L/F 10805	Grid # 0006	Zoning B-2	Tax Map No. 042	Elect District	Census Tract 606707	
Vater Code F06			Sewer Code	00000		

9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND

LICENSE NO. <u>43160</u> EXPIRATION DATE <u>12/19/2022</u> 9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 ZONING B-2 **6TH ELECTION DISTRICT**

2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 **TOWSON, MD 21204**

443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: 7.14.2020

Design Bulletin Updates:

Date Issued: Bulletin Number:

FOR REVIEW

11400 COMMERCE PARK DR., SUITE 400, RESTON, VA 2019 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

Sheet Title:

SITE DETAILS

Date: 11/09/2022 Project Number: 110723018 Drawn By: JAM Checked By:

Sheet Number:

SDP-22-035

CALL 48 HOURS BEFORE YOU DIG Know what's **below**. Call before you dig

IT'S THE LAW!

DIAL 811

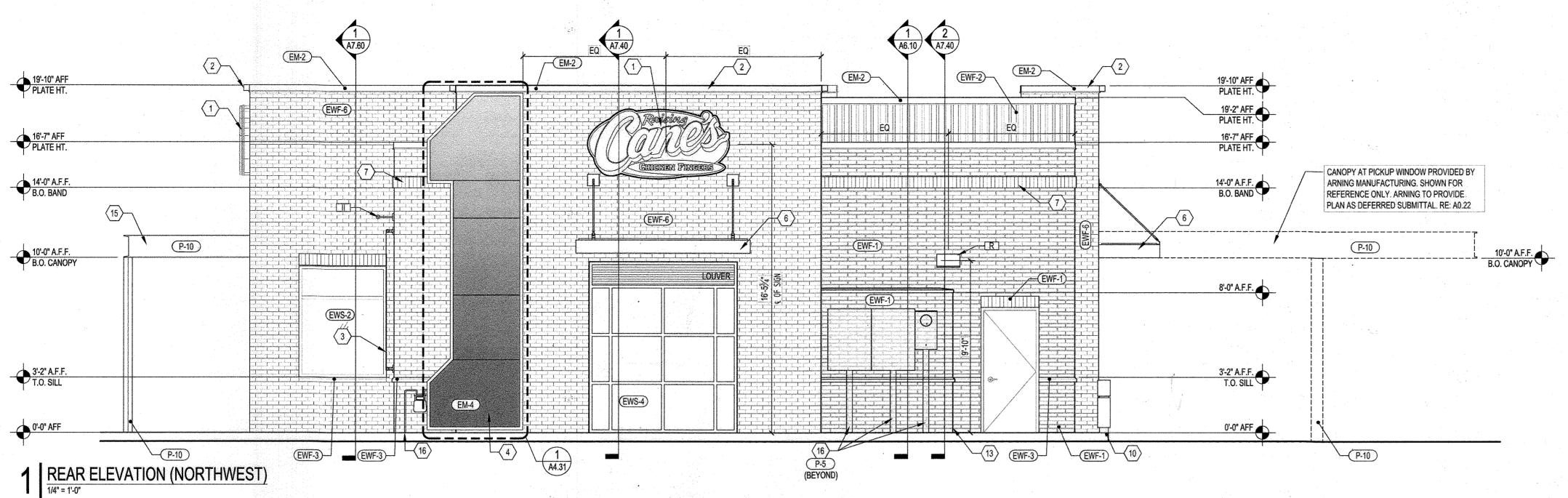
REDWOOD EXPANSION-

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ISOLATION JOINT DETAIL

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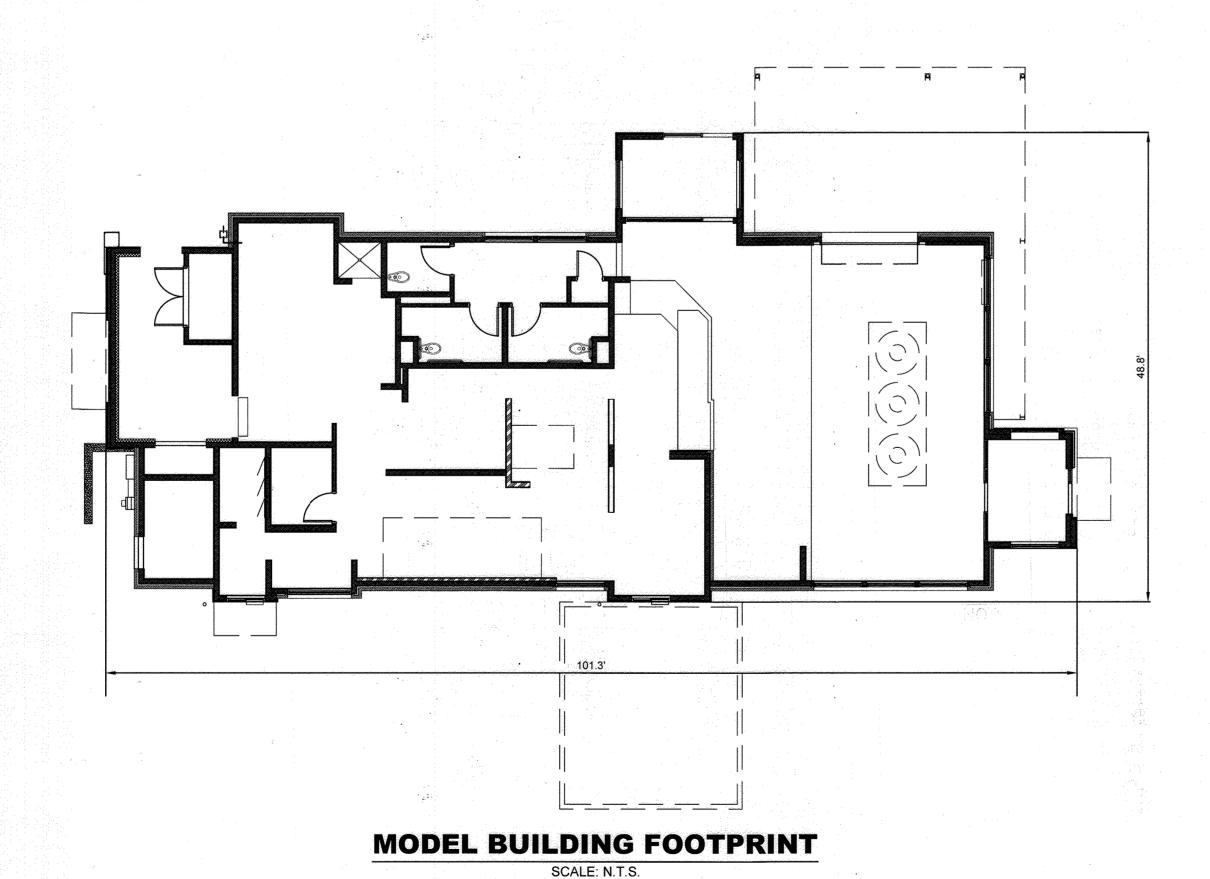


EXTERIOR ELEVATION

SCALE: N.T.S.

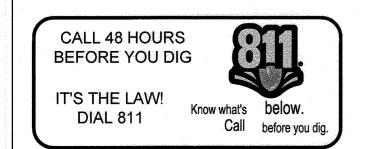
NOTE:

BUILDING FOOTPRINT AND ELEVATIONS SHOWN FOR REFERENCE ONLY. PLEASE SEE BUILDING PLANS PREPARED FOR ARCHITECTURAL REVIEW COMMITTEE #GCC-220318 FOR ADDITIONAL BUILDING INFORMATION.

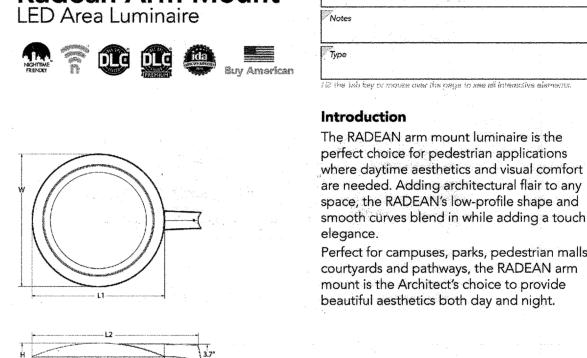


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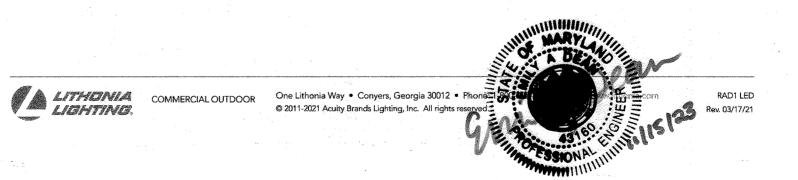






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APPROVED: DE	PARTMENT OF PLANNING A (HID) Edmondson	AND ZONING 12/19/2022
Chief, Development E	nginesting Livision	Date 12/19/2022
Chief, Division of Land	Devember 1849A Devember 1849A Docusigned by: Amy Gonan	Date 12/20/2022
Planning Director	5B4D5DD9470C4D4	Date

LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

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9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 RESTAURANT #C0838 **P4EV-AV SCHEME A**

Professional of Record:

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215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204 443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE

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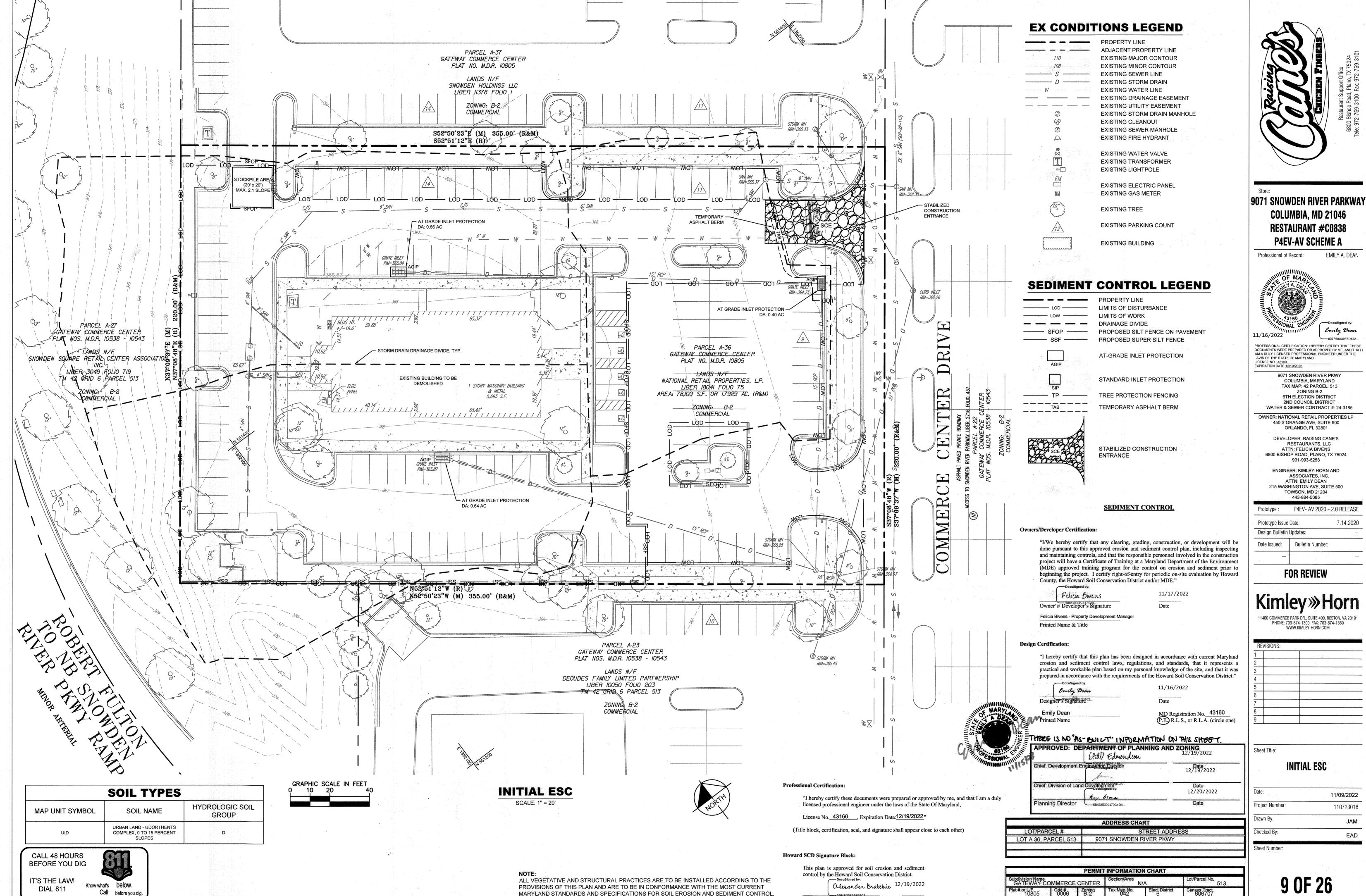
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PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

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ARCHITECTURAL DETAILS

	Date:	11/09/2022
	Project Number:	110723018
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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL,

Howard Soil Conservation District

AND REVISIONS THERETO.

DocuSign Envelope ID: 374A2E98-C73A-47F3-B075-2FC472FBE04B

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SDP-22-035

Census Tract 606707

Sewer Code 49000000

AND REVISIONS THERETO.

Howard Soil Conservation District

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443-884-5085

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Sheet Title:

. 513

Sewer Code 4900000

FINAL ESC

11/09/2022 Project Number: 110723018

Drawn By: Checked By:

Sheet Number:

10 OF 26

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

- 1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages:
 - a. Prior to the start of earth disturbance,
 - b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading,
 - c. Prior to the start of another phase of construction or opening of another grading unit,
 - d. Prior to the removal or modification of sediment control practices.

Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan.

- 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with >15' of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6).
- All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.
- Site Anal

nalysis:		
Total Area of Site:	1.793	Acres
Area Disturbed:	1.15	Acres
Area to be roofed or paved:	0.86	Acres
Area to be vegetatively stabilized:	0.23	Acres
Total Cut:	354	Cu. Yo
Total Fill:	841	Cu. Yo
Offsite waste/borrow area location:		

- 7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:
 - Inspection date
 - Inspection type (routine, pre-storm event, during rain event)
 - Name and title of inspector
 - Weather information (current conditions as well as time and amount of last recorded
 - Brief description of project's status (e.g., percent complete) and/or current activities
 - Evidence of sediment discharges • Identification of plan deficiencies
 - Identification of sediment controls that require maintenance
 - Identification of missing or improperly installed sediment controls
 - Compliance status regarding the sequence of construction and stabilization requirements
 - Photographs
 - Monitoring/sampling
 - Maintenance and/or corrective action performed
 - Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE).
- Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday, whichever is shorter.
- 10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may allowed by the CID per the list of HSCD-approved field changes.
- 11. Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the CID. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.
- 12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.
- 13. Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade.
- 14. All Silt Fence and Super Silt Fence shall be placed on-the-contour, or be imbricated at 25' maximum intervals, with lower ends curled uphill by 2' in elevation.
- 15. Stream channels must not be disturbed during the following restricted time periods (inclusive):
 - Use I and IP March 1 June 15
 - Use III and IIIP October 1 April 30
 - Use IV March 1 May 31
- 16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

B-4 STANDARDS AND SPECIFICATIONS

VEGETATIVE STABILIZATION

Using vegetation as cover to protect exposed soil from erosion.

Purpose

To promote the establishment of vegetation on exposed soil,

Conditions Where Practice Applies

On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization; and permanent stabilization.

Effects on Water Quality and Quantity

Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.

Adequate Vegetative Establishment

Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season.

- 1. Adequate vegetative stabilization requires 95 percent groundcover.
- 2. If an area has less than 40 percent groundcover, restabilize following the original recommendations for lime, fertilizer, seedbed preparation, and seeding.
- 3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.
- 4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

B-4-1 STANDARDS AND SPECIFICATIONS

INCREMENTAL STABILIZATION

Definition

Establishment of vegetative cover on cut and fill slopes.

To provide timely vegetative cover on cut and fill slopes as work progresses.

Conditions Where Practice Applies

Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

<u>Criteria</u>

- Incremental Stabilization Cut Slopes
- 1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.
- 2. Construction sequence example (Refer to Figure B.1):
- a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around
- b. Perform Phase 1 excavation, prepare seedbed, and stabilize.
- c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as
- d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

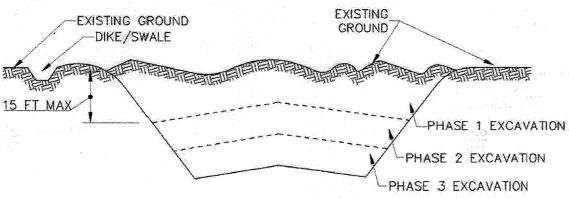


Figure B.1: Incremental Stabilization - Cut

Incremental Stabilization - Fill Slopes

- 1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses.
- 2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.
- 3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept
- surface runoff and convey it down the slope in a non-erosive manner.
- 4. Construction sequence example (Refer to Figure B.2):
- a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around the fill. Construct silt fence on low side of fill unless other methods shown on the plans address
- b. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
- c. Place Phase 1 fill, prepare seedbed, and stabilize.
- d. Place Phase 2 fill, prepare seedbed, and stabilize.
- e. Place final phase fill, prepare seedbed, and stabilize. Overseed previously seeded areas as

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

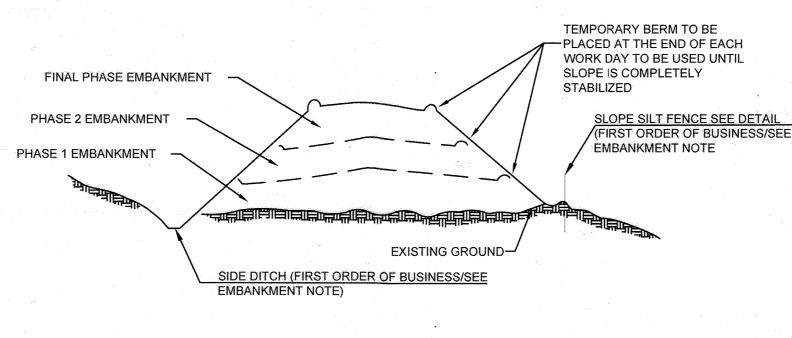


Figure B.2: Incremental Stabilization - Fill

B-4-2 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition

The process of preparing the soils to sustain adequate vegetative stabilization.

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established

Criteria

- Soil Preparation 1. Temporary Stabilization
- a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
- b. Apply fertilizer and lime as prescribed on the plans.
- c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable

2. Permanent Stabilization

- a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
- i. Soil pH between 6.0 and 7.0.
- ii. Soluble salts less than 500 parts per million (ppm).
- iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
- iv. Soil contains 1.5 percent minimum organic matter by weight.
- v. Soil contains sufficient pore space to permit adequate root penetration.
- b. Application of amendments or topsoil is required if on-site soils do not meet the above
- c. Graded areas must be maintained in a true and even grade as specified on the approved plan then scarified or otherwise loosened to a depth of 3 to 5 inches.

Professional Certification:

"I hereby certify these documents were prepared or approved by me, and that I am a duly

licensed professional engineer under the laws of the State Of Maryland, License No. 43160 , Expiration Date: 12/19/2022"

(Title block, certification, seal, and signature shall appear close to each other)

Howard SCD Signature Block:

Howard Soil Conservation District

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District. Olexander Bratchie

- d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil
- e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

B. Topsoiling

- 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
- 2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.
- 3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
- b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasible.
- 4. Areas having slopes steeper than 2:1 require special consideration and design.
- 5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
- a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 11/2 inches in diameter.
- b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
- c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

6. Topsoil Application

- a. Erosion and sediment control practices must be maintained when applying topsoil.
- b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
- c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

Soil Amendments (Fertilizer and Lime Specifications)

- 1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
- 2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.
- hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve. 4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by

3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when

- disking or other suitable means.
- 5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

SEDIMENT CONTROL

Owners/Developer Certification:

Printed Name & Title

Printed Name

GATEWAY COMMERCE CENTER

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard

County, the Howard Soil Conservation District and/or MDE." 11/17/2022 Felicia Bivens Owner's Developer's Signature Felicia Bivens - Property Development Manager

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Emily Dean 11/16/2022 Designer's Signature Date MD Registration No._43160 **Emily Dean**

there is no "as-built" information on this sheet. APPROVED: DEPARTMENT OF PLANNING AND ZONING (Hd1) Edmondson

Date 12/19/2022 hief, Division of Land Development 12/20/2022 anning Director ADDRESS CHART

STREET ADDRESS

(P.E.) R.L.S., or R.L.A. (circle one)

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9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



PROFESSIONAL CERTIFICATION: THEREBY CERTIFY THAT THES AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LIČENSE NO. 43160 EXPIRATION DATE 12/19/2022 9071 SNOWDEN RIVER PKWY

COLUMBIA MARYLAND

TAX MAP: 42 PARCEL: 513 **6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP

450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801 DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024

931-993-5258 **ENGINEER: KIMLEY-HORN AND** ASSOCIATES, INC ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500

TOWSON, MD 21204 Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: 7.14.2020

FOR REVIEW

WWW.KIMLEY-HORN.COM

Date Issued: Bulletin Number:

Design Bulletin Updates

REVISIONS:

Sheet Title:

ESC NOTES

11/09/2022 Project Number 110723018 Drawn By: **JAM** Checked By: EAD

SDP-22-035

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SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

<u>Purpose</u>

To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading,

A. Seeding

1. Specifications

- a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
- b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
- c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
- d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

2. Application

- a. Dry Seeding: This includes use of conventional drop or broadcast spreaders
- i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
- ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil
- b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
- i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
- ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
- c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
- i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P₂O₅ (phosphorous), 200 pounds per acre; K₂O (potassium), 200 pounds per acre.
- ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
- iii. Mix seed and fertilizer on site and seed immediately and without interruption.
- iv. When hydroseeding do not incorporate seed into the soil.

Mulching

- 1. Mulch Materials (in order of preference)
- a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
- b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state. i. WCFM is to be dyed green or contain a green dye in the package that will provide an
- appropriate color to facilitate visual inspection of the uniformly spread slurry.
- ii. WCFM, including dye, must contain no germination or growth inhibiting factors.
- iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
- iv. WCFM material must not contain elements or compounds at concentration levels that will be phyto-toxic.
- v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

Professional Certification:

"I hereby certify these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State Of Maryland,

License No. 43160 , Expiration Date: 12/19/2022"

(Title block, certification, seal, and signature shall appear close to each other)

Howard SCD Signature Block:

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

12/19/2022 Olexander Bratchie

Howard Soil Conservation District

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2. Application

- a. Apply mulch to all seeded areas immediately after seeding.
- b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
- c. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

Anchoring

- a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
- i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
- ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
- iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly
- iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000

B-4-4 STANDARDS AND SPECIFICATIONS

FOR

TEMPORARY STABILIZATION

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

<u>Purpose</u>

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

- 1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.
- 2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
- 3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season.

Temporary Seeding Summary

	Hardiness Zon Seed Mixture	Fertilizer Rate	Lime Rate			
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	(10-20-20)	Linie Kate
1	COOL-SEASON GRASSE ANNUAL RYEGRASS	S: 40	3/1-5/15; 8/1-10/15	0.5		
2	WARM-SEASON GRASSES: PEARL MILLE	_T 20	5/16-7/31	0.5	436 lb/ac	2 tons/ac
					(10 lb/1000 sf)	(90 lb/1000 sf)

H-5 STANDARDS AND SPECIFICATIONS

FOR

DUST CONTROL

Definition

Controlling the suspension of dust particles from construction activities.

Purpose

To prevent blowing and movement of dust from exposed soil surfaces to reduce on and off-site damage including health and traffic hazards.

Conditions Where Practice Applies

Areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Specifications

- Mulches: See Section B-4-2 Soil Preparation, Topsoiling, and Soil Amendments, Section B-4-3 Seeding and Mulching, and Section B-4-4 Temporary Stabilization. Mulch must be anchored to prevent blowing.
- Vegetative Cover: See Section B-4-4 Temporary Stabilization.
- <u>Tillage</u>: Till to roughen surface and bring clods to the surface. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.
- Irrigation: Sprinkle site with water until the surface is moist. Repeat as needed. The site must not be irrigated to the point that runoff occurs.
- Barriers: Solid board fences, silt fences, snow fences, burlap fences, straw bales, and similar material can be used to control air currents and soil blowing.
- <u>Chemical Treatment</u>: Use of chemical treatment requires approval by the appropriate plan review authority.

B-4-5 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

PERMANENT STABILIZATION

Definition

Exposed soils where ground cover is needed for 6 months or more.

To stabilize disturbed soils with permanent vegetation.

Purpose

To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies

Criteria

A. Seed Mixtures

- General Use
- a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
- b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting,
- c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil
- d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 ½ pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

2. Turfgrass Mixtures

- a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
- b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.
- i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
- ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where
- rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight,
- iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.
- iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1½ to 3 pounds per 1000 square feet.

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line

c. Ideal Times of Seeding for Turf Grass Mixtures

Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)

Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b)

Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)

- d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 11/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will
- pose no difficulty. e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

SEDIMENT CONTROL

Owners/Developer Certification:

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

Felicia Bivens 11/17/2022 Owner's/ Developer's Signature Felicia Bivens - Property Development Manager

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District." Emily Dean 11/16/2022

Designer's Signature **Emily Dean**

Printed Name

Printed Name & Title

Date MD Registration No. 43160 (P.E.) R.L.S., or R.L.A. (circle one)

Permanent Seeding Summary

Hardiness Zone (from Figure B.3): 6B Seed Mixture (from Table B.3): SEE BELOW						Fertilizer Ra (10-20-20)	-5711	Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ 0	Lime Nate
1	OL-SEASON GRASS TALL FESCUE NTUCKY BLUEGRA	40	3/1-5/15, 8/1-10/5	1/4- 1/2 in	45 pounds	90 lb/ac	90 lb/ac	2 tons/ac
2	RM-SEASON GRASS SWITCH GRASS EEPING RED FESCI	15	5/16-7/31	1/4- 1/2 in	per acre (1.0 lb/	(2 lb/	(2 lb/ (2 lb/	(90 lb/
	PARTRIDGE PEA			1/4- 1/2 in	1000 sf)	1000 sf)	1000 sf)	1000 sf)

B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

General Specifications

- a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
- b. Sod must be machine cut at a uniform soil thickness of ¼ inch, plus or minus ¼ inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.
- c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the
- d. Sod must not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
- e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its

2. Sod Installation

- a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
- b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
- c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
- d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours.

3. Sod Maintenance

- a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day
- b. After the first week, sod watering is required as necessary to maintain adequate moisture
- c. Do not mow until the sod is firmly rooted. No more than 1/3 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

B-4-8 STANDARDS AND SPECIFICATIONS

STOCKPILE AREA Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures. Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

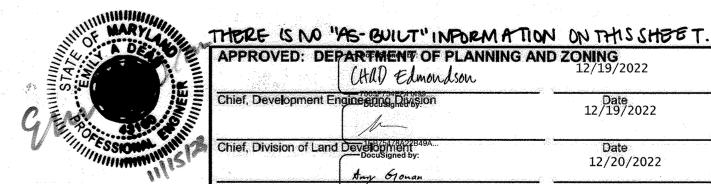
Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

- 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
- 2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
- 3. Runoff from the stockpile area must drain to a suitable sediment control practice.
- 4. Access the stockpile area from the upgrade side.
- 5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
- 6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge. 7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as
- Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization. 8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable

Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.



sheeting.

APPROVED: DEPARTMENT OF PLANNING AND ZONING (HD) Edmondson Date 12/19/2022 hief, Division of Land Development 12/20/2022 lanning Director

LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

ADDRESS CHART

GATEWAY COMMERCE CENTER Plat # or L/F 10805 ensus Tract 606707 Sewer Code 4900000

9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

EMILY A. DEAN Professional of Record:



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 **6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

LICENSE NO. 43160 EXPIRATION DATE 12/19/2022

OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801 DEVELOPER: RAISING CANE'S RESTAURANTS LLC

ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258 ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC ATTN: EMILY DEAN

215 WASHINGTON AVE, SUITE 500 **TOWSON, MD 21204** Prototype: P4EV- AV 2020 - 2.0 RELEASE 7.14.2020 Prototype Issue Date:

FOR REVIEW

WWW.KIMLEY-HORN.COM

Date Issued: Bulletin Number:

Design Bulletin Updates

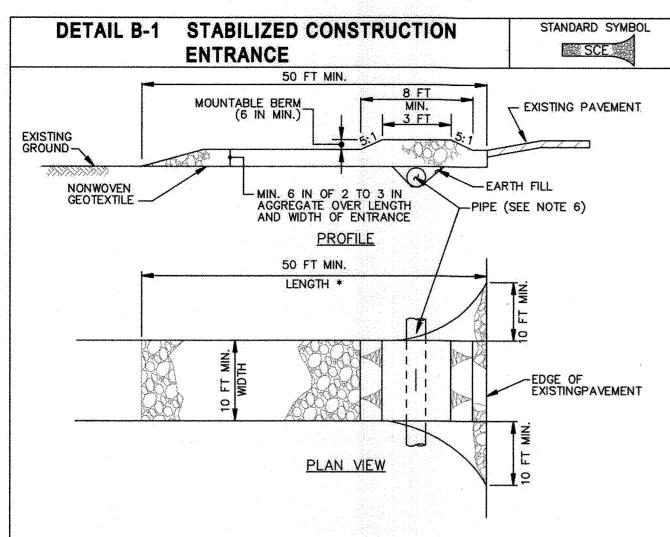
REVISIONS:

Sheet Title:

ESC NOTES 11/09/2022

Project Number: 110723018 Drawn By JAM Checked By: EAD

Sheet Number:



CONSTRUCTION SPECIFICATIONS

- . PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN, VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- 3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- 4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL DETAIL E-2 SILT FENCE ON PAVEMENT H-SFOP-H -10 FT MAX 2 IN x 4 IN ACROSS-TOP OF STONE ISOMETRIC VIEW FRAME -WOVEN SLIT FILM GEOTEXTILE SILT FENCE OF GEOTEXTILE -WOVEN SLIT FILM GEOTEXTILE -MASTIC SEAL CONSTRUCTION SPECIFICATIONS SECTION A-A 1. USE NOMINAL 2 INCH X 4 INCH LUMBER.

CALL 48 HOURS

BEFORE YOU DIG

Know what's below.

before you di

Call

IT'S THE LAW!

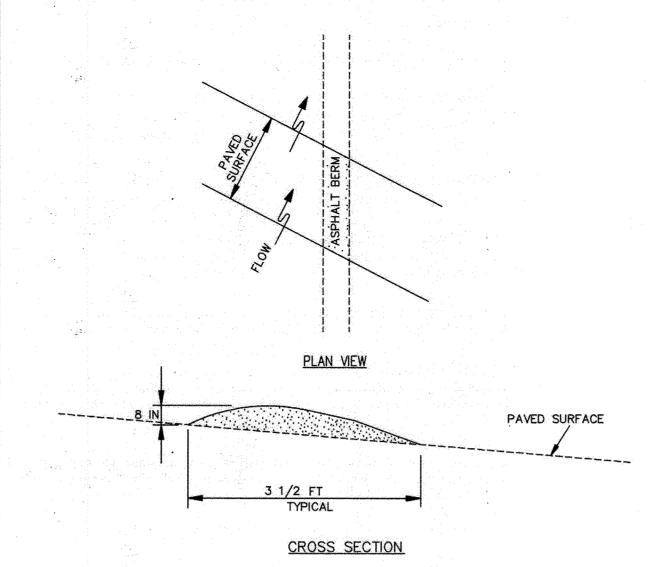
DIAL 811

- 2. USE WOVEN SLIT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- 3. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- 4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
- 5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
- 6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
- 8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
- 9. SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
- 10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

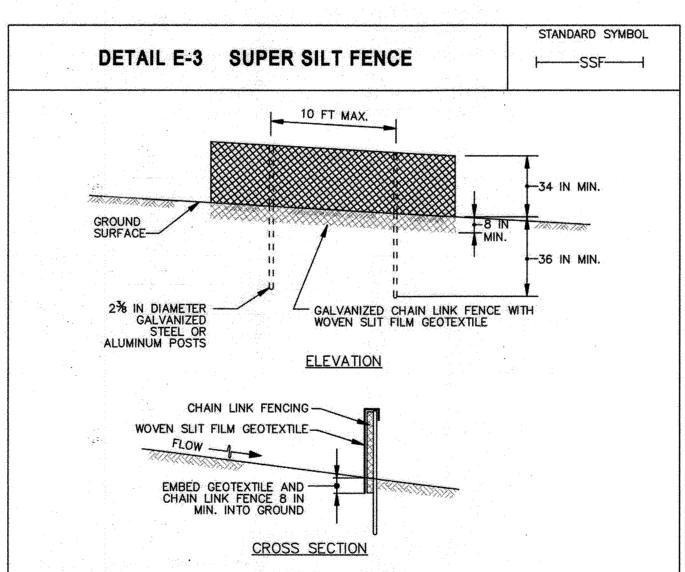
STANDARD SYMBOL DETAIL C-5 TEMPORARY ASPHALT BERM ____TAB



CONSTRUCTION SPECIFICATIONS

- CONSTRUCT BERM ON AN UNINTERRUPTED, CONTINUOUS GRADE.
- 2. INSTALL BERM TO CONFORM TO CROSS SECTION DIMENSIONS OF A UNIFORM HEIGHT OF 8 INCHES MINIMUM AND APPROXIMATE WIDTH OF 31/2 FEET.
- . PROVIDE OUTLET PROTECTION AS REQUIRED ON PLAN
- . COMPACT ASPHALT BERM.
- REPAIR DAMAGED ASPHALT, REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE
- UPON REMOVAL OF ASPHALT BERM, RETURN TO ORIGINAL CONDITIONS OR AS SPECIFIED ON APPROVED

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION



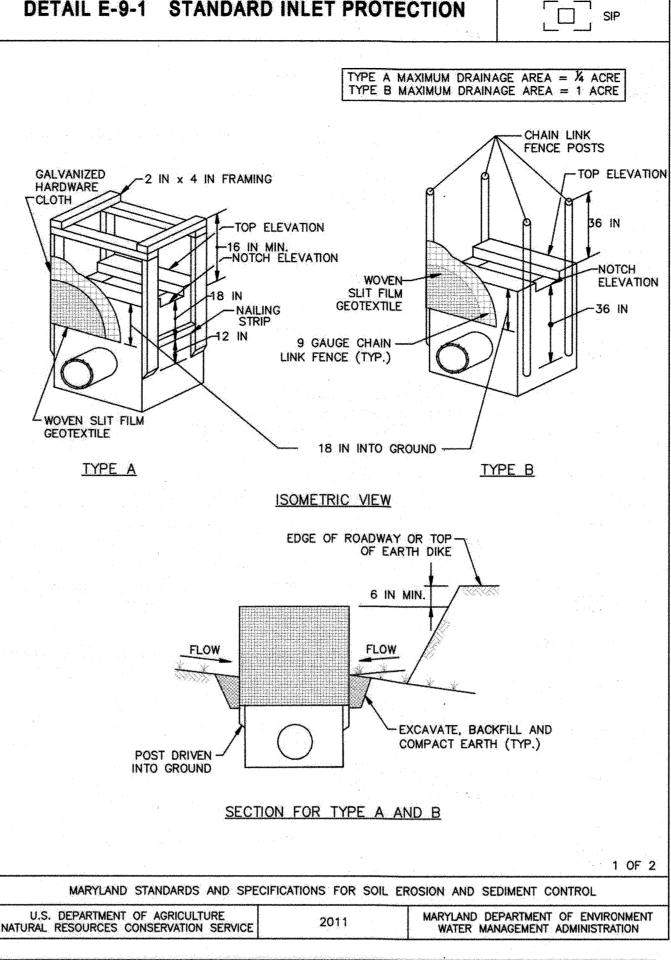
CONSTRUCTION SPECIFICATIONS

- INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES
- 2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- 3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.

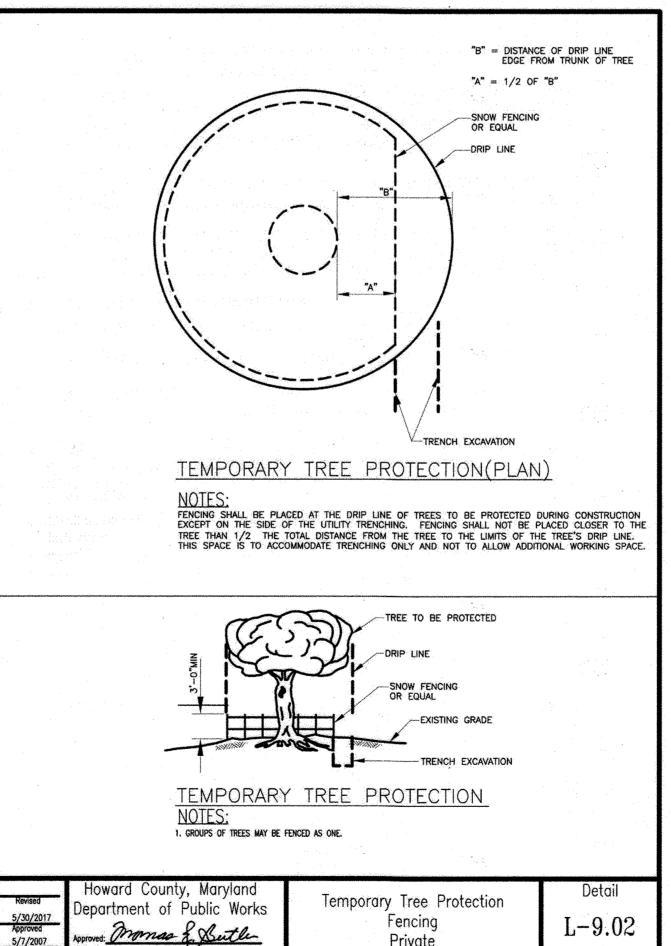
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES,

- 5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- 6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION



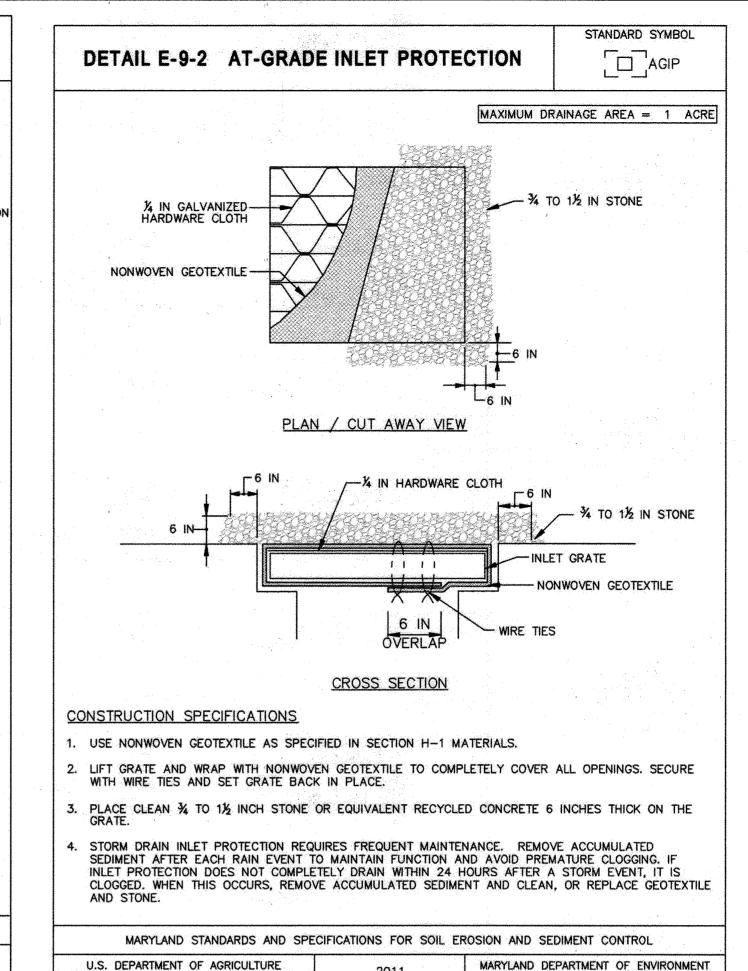
STANDARD SYMBOL



Howard SCD Signature Block:

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District. Olexander Bratchie 12/19/2022 Howard Soil Conservation District

Private



SEDIMENT CONTROL

Owners/Developer Certification:

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

Felicia Bivens Owner's Developer's Signature

11/17/2022

WATER MANAGEMENT ADMINISTRATION

Felicia Bivens - Property Development Manager Printed Name & Title

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Emily Dear Designer's Signature

11/16/2022 Date

Emily Dean Printed Name

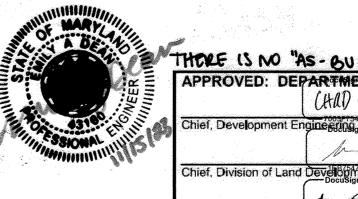
MD Registration No. 43160 (P.E.) R.L.S., or R.L.A. (circle one)

Professional Certification:

"I hereby certify these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State Of Maryland,

License No. 43160 , Expiration Date: 12/19/2022

(Title block, certification, seal, and signature shall appear close to each other)



THERE IS NO "AS-BUILT" INFORMATION ON THE SHEET. APPROVED: DEPARTMENT OF PLANNING AND ZONING (Hd1) Edmondson

Chief, Development Engineering Divis 12/19/2022 hief, Division of Land Develor Docusioned by 12/20/2022 lanning Director _____584D5DD9470C4D4

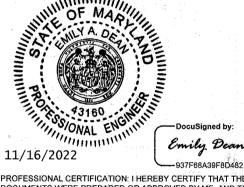
	ADDRESS CHART
LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

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ubdivision Name GATEWAY C	OMMERCE	CENTER	Section/Area N	I/A	Lot/Parcel No. 513
lat # or L/F 10805	Grid # 0006	Zoning B-2	Tax Map No. 042	Elect District	Census Tract 606707
/ater Code F06			Sewer Code	20000	



9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THA AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 43160 EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY COLUMBIA MARYLAND TAX MAP: 42 PARCEL: 513 ZONING B-2 **6TH ELECTION DISTRICT**

2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

> **DEVELOPER: RAISING CANE'S** RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON MD 21204

443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE

Prototype Issue Date: 7.14.2020 Design Bulletin Updates Date Issued: Bulletin Number:

FOR REVIEW

PHONE: 703-674-1300 FAX: 703-674-1350

WWW.KIMLEY-HORN.COM

Sheet Title:

ESC DETAILS

11/09/2022 Project Number:

110723018 Drawn By: Checked By:

Sheet Number:

GRADING PLAN LEGEND

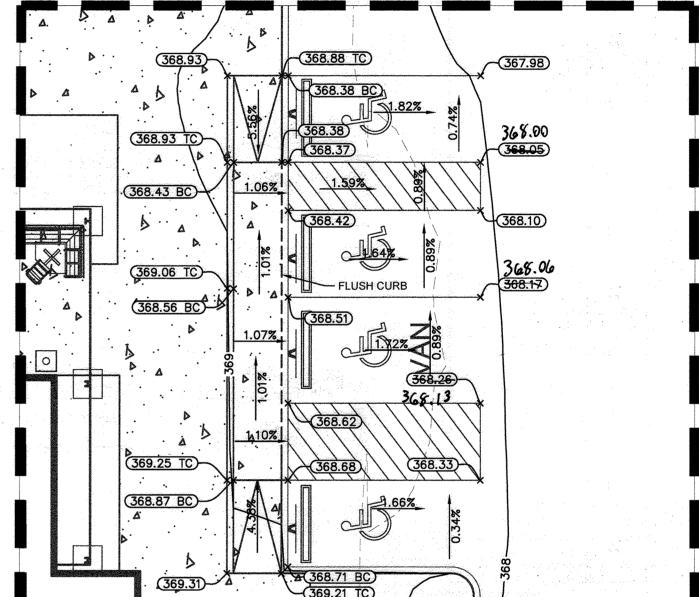
	PROPERTY LINE
	ULTIMATE RIGHT OF WAY
	EX. ADJACENT PROPERTY LINE
	ROAD CENTERLINE
	EX. CURB AND GUTTER
	PROP. CURB AND GUTTER
6	EX. GAS LINE
W ———	EX. WATER LINE
	EX. STORM DRAIN
S	EX. SANITARY LINE
UGE	EX. ELECTRIC
100	EX. MAJOR CONTOUR
98	EX. MINOR CONTOUR
100	PROP. MAJOR CONTOUR
98	PROP MINOR CONTOUR

LIMITS OF DISTURBANCE

ABBREVIATIONS: BC: BOTTOM OF CURB

TC: TOP OF CURB

FFE: FINISHED FLOOR ELEVATION LP: LOW POINT ME: MATCH EXISTING



GRADING ENLARGEMENT A

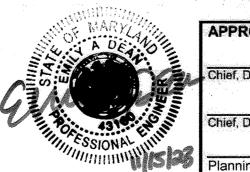
SCALE: 1" = 10'

NOTE: ALL SPOT ELEVATIONS ARE GROUND SHOTS UNLESS OTHERWISE NOTED.

AS-BUILT CORTIFICATION

I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on this plan were constructed as shown on this "AK-BUILT" plan meet the Approved Plans and specifications.

NAME DOWN DATE OF AK-BUILT 123



APPROVED: DE	PARTMENT OF PLANNING. (Hd) Edmondson	AND ZONING 12/19/2022	
Chief, Development E	ngineering hivision	Date 12/19/2022	
Chief, Division of Land	Develonentes	Date 12/20/2022	
Planning Director	5B4D5DD9470C4D4	Date	

ADDRESS CHART	
CEL# STRE	ET ADDRESS
ARCEL 513 9071 SNOWDEN RIVE	RPKWY

PERMIT INFORMATION CHART Census Tract 606707 Sewer Code 49000000

9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046** RESTAURANT #C0838 **P4EV-AV SCHEME A**

EMILY A. DEAN Professional of Record:

11/16/2022 PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE

DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 43160

EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 **6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT

WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900

ORLANDO, FL 32801 DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS

6800 BISHOP ROAD, PLANO, TX 75024

931-993-5258 ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC.

ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204 443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE

Prototype Issue Date: 7.14.2020 Design Bulletin Updates:

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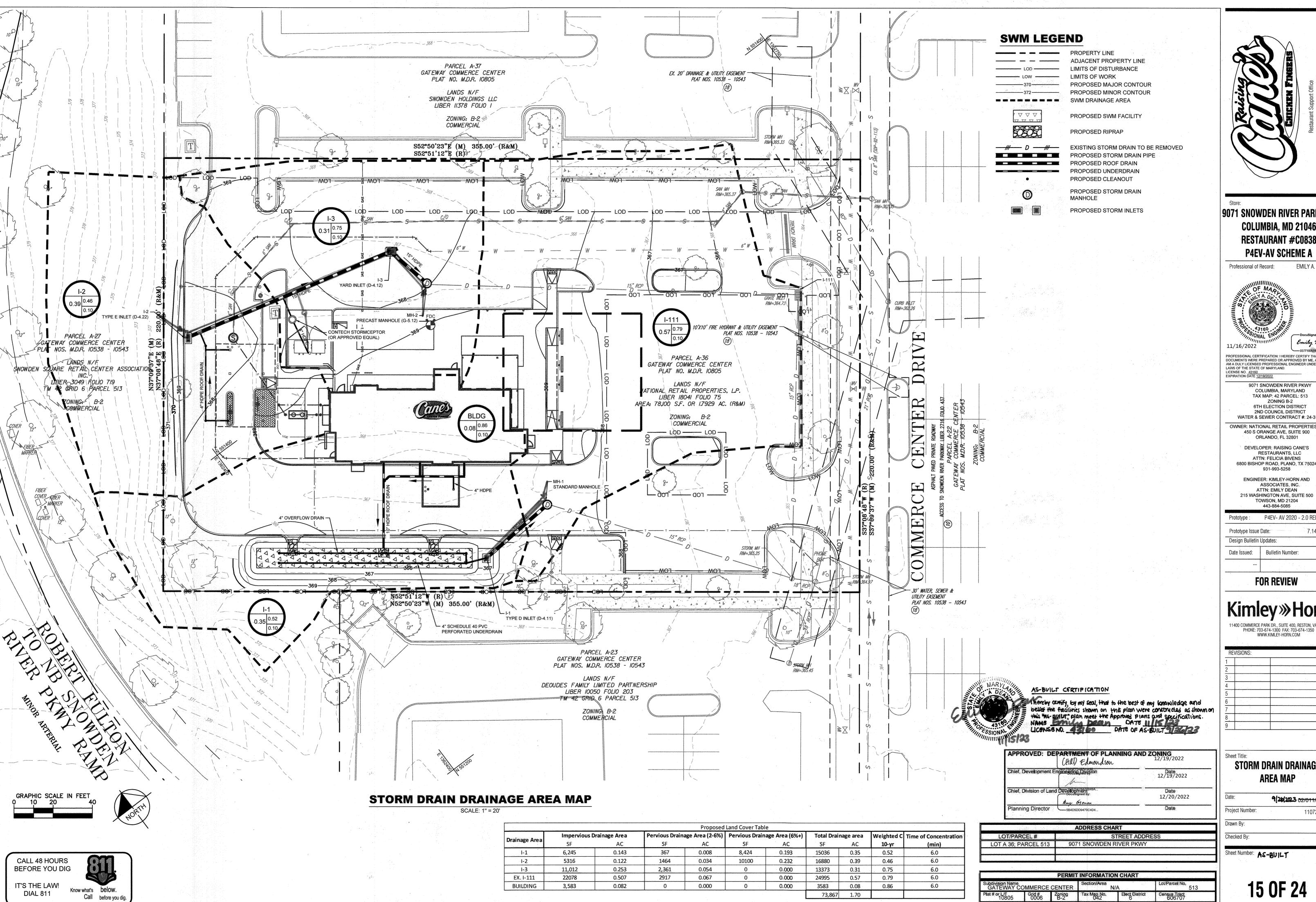
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Sheet Title:

GRADING PLAN

Date: 9/26/2023 11/09/2022 Project Number: 110723018 Drawn By:

Sheet Number: AS-BUILT



DocuSign Envelope ID: 374A2E98-C73A-47F3-B075-2FC472FBE04B

9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

EMILY A. DEAN Professional of Record:



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE

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LICENSE NO. 43160

EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 ZONING B-2 **6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

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DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204

Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: 7.14.2020

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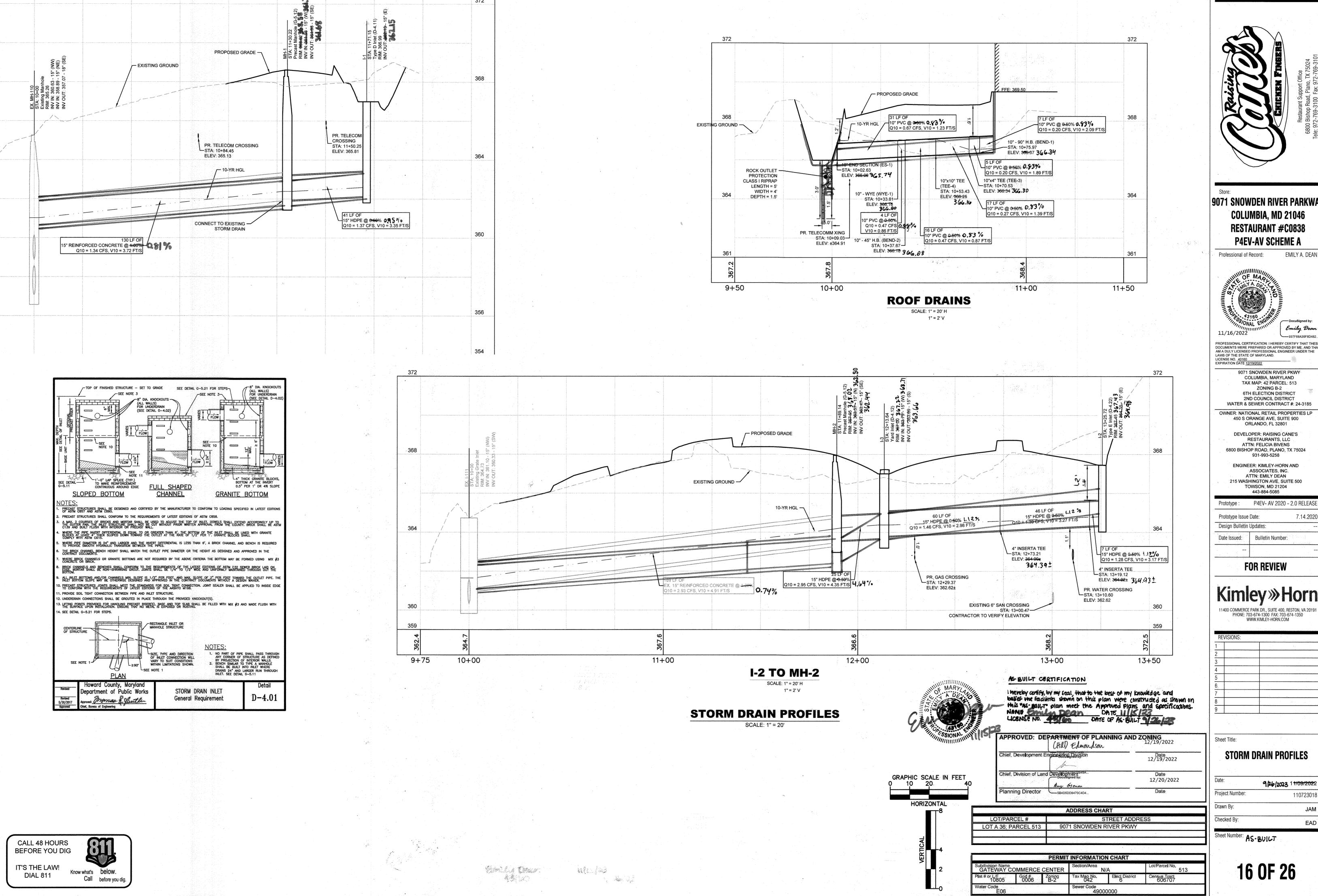
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STORM DRAIN DRAINAGE AREA MAP

9/26/2023 02/011/2022 Project Number:

Sheet Number: AS-BUILT



DocuSign Envelope ID: 374A2E98-C73A-47F3-B075-2FC472FBE04B

9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 43160
EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 **ZONING B-2 6TH ELECTION DISTRICT**

WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

2ND COUNCIL DISTRICT

DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204 443-884-5085

Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: 7.14.2020 Design Bulletin Updates:

FOR REVIEW

PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

Sheet Title:

STORM DRAIN PROFILES

9/26/2023 1 1/09/2022 Project Number: 110723018 Drawn By: Checked By:

Sheet Number: AS-BUILT

CALL 48 HOURS BEFORE YOU DIG

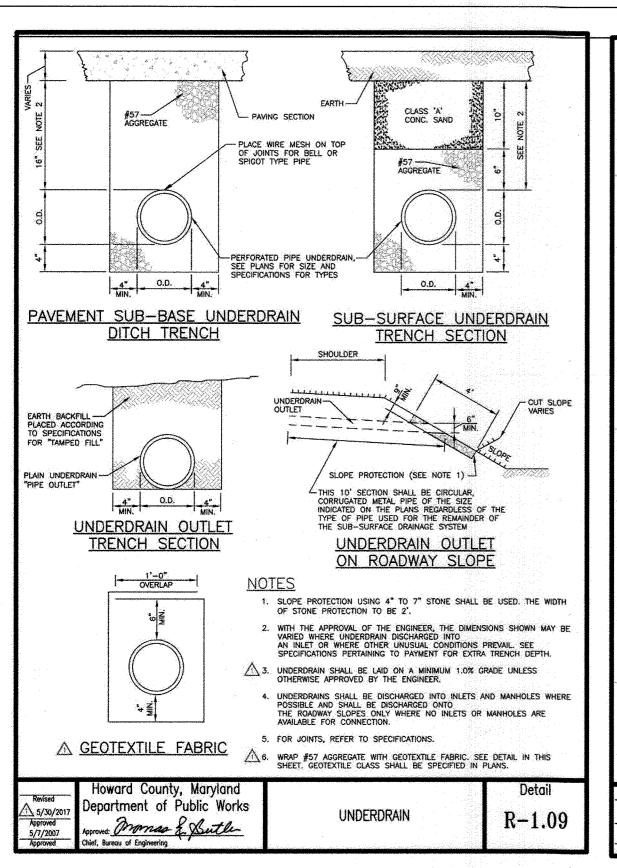
IT'S THE LAW!

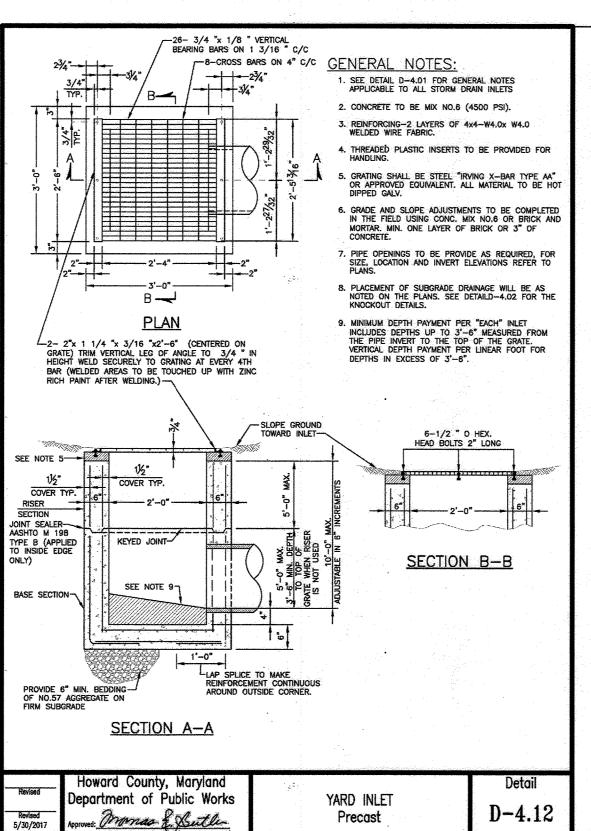
DIAL 811

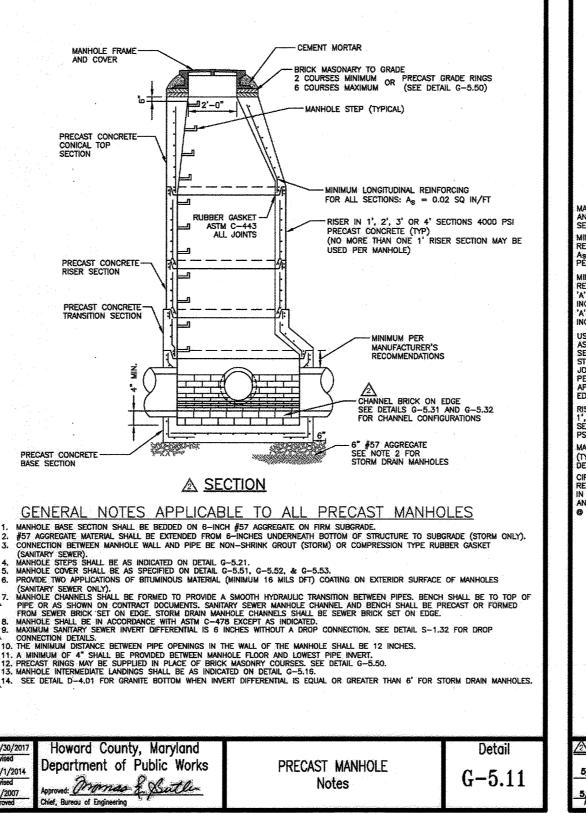
Know what's **below**.

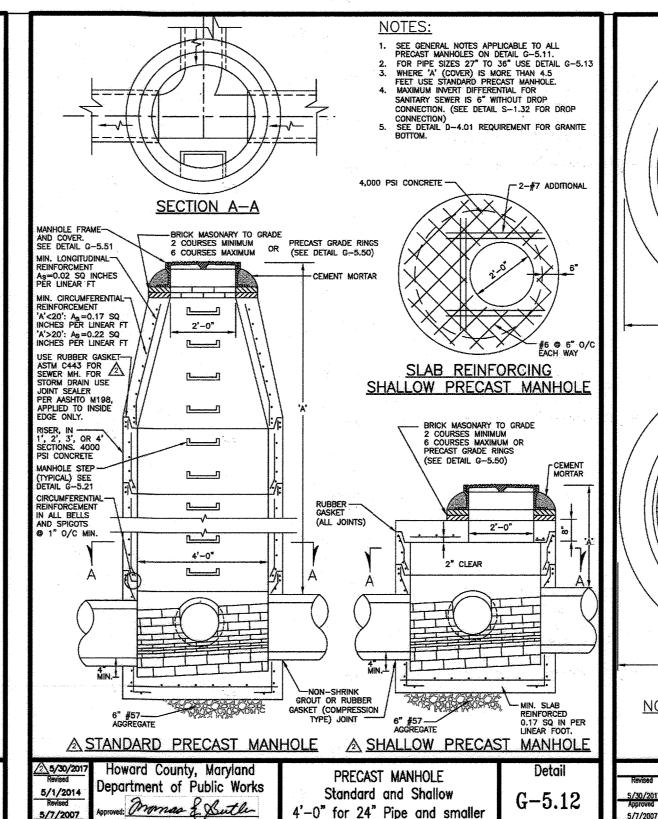
before you dig

Call









CENTER OF COS STRUCTURE, SCREEN AND

TOP SLAB ACCESS

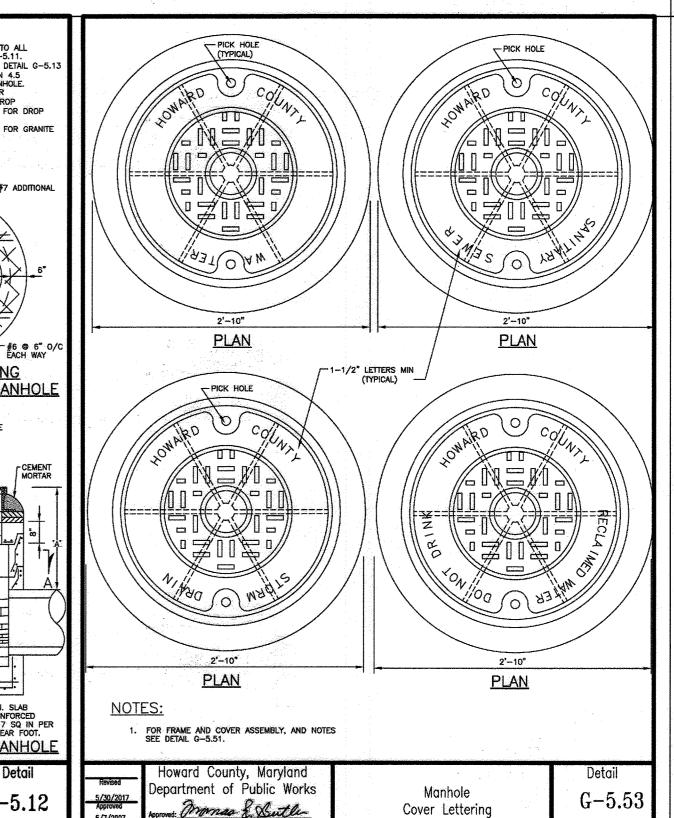
-OUTLET PIPE

4444

ELEVATION A-A

CDS.

SUMP OPENING



CDS1515-3-C DESIGN NOTES

SITE SPECIFIC

DATA REQUIREMENTS

WATER QUALITY FLOW RATE (CFS OR L/s)

RETURN PERIOD OF PEAK FLOW (YRS)

SCREEN APERTURE (2400 OR 4700)

PEAK FLOW RATE (CFS OR L/s)

NOTES/SPECIAL REQUIREMENTS

* PER ENGINEER OF RECORD

PIPE DATA: I.E.

OUTLET PIPE

RIM ELEVATION

CDS1515-3-C

ONLINE CDS

STANDARD DETAIL

THE STANDARD CDS1515-3-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW, SOMI

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.Conteches.com
3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.

3. COS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.

4. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO...

5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.

C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.

D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.

E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

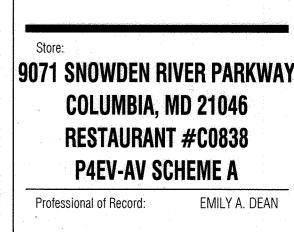
CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONTECH

FRAME AND COVER

(DIAMETER VARIES)

N.T.S.



11/16/2022

OFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE

LAWS OF THE STATE OF MARYLAND LICENSE NO. 43160 EXPIRATION DATE 12/19/2022 9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513

6TH ELECTION DISTRICT 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE. SUITE 900 ORLANDO, FL 32801

DEVELOPER: RAISING CANE'S

RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204

443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE MATERIAL DIAMETER Prototype Issue Date: 7.14.2020 Design Bulletin Updates: ANTI-FLOTATION BALLAST WIDTH HEIGHT Date Issued: Bulletin Number:

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OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED

STORMCEPTOR WATER QUALITY DEVICE

FIBERGLASS SEPARATION

PVC HYDRAULIC SHEAR

CONTRACTOR TO GROUT

FIBERGLASS SEPARATION

CYLINDER AND INLE

INLET PIPE

OIL BAFFLE SKIRT -

SEPARATION SCREEN

SHEAR PLATE

SOLIDS STORAGE SUMP

(MULTIPLE INLET PIPES

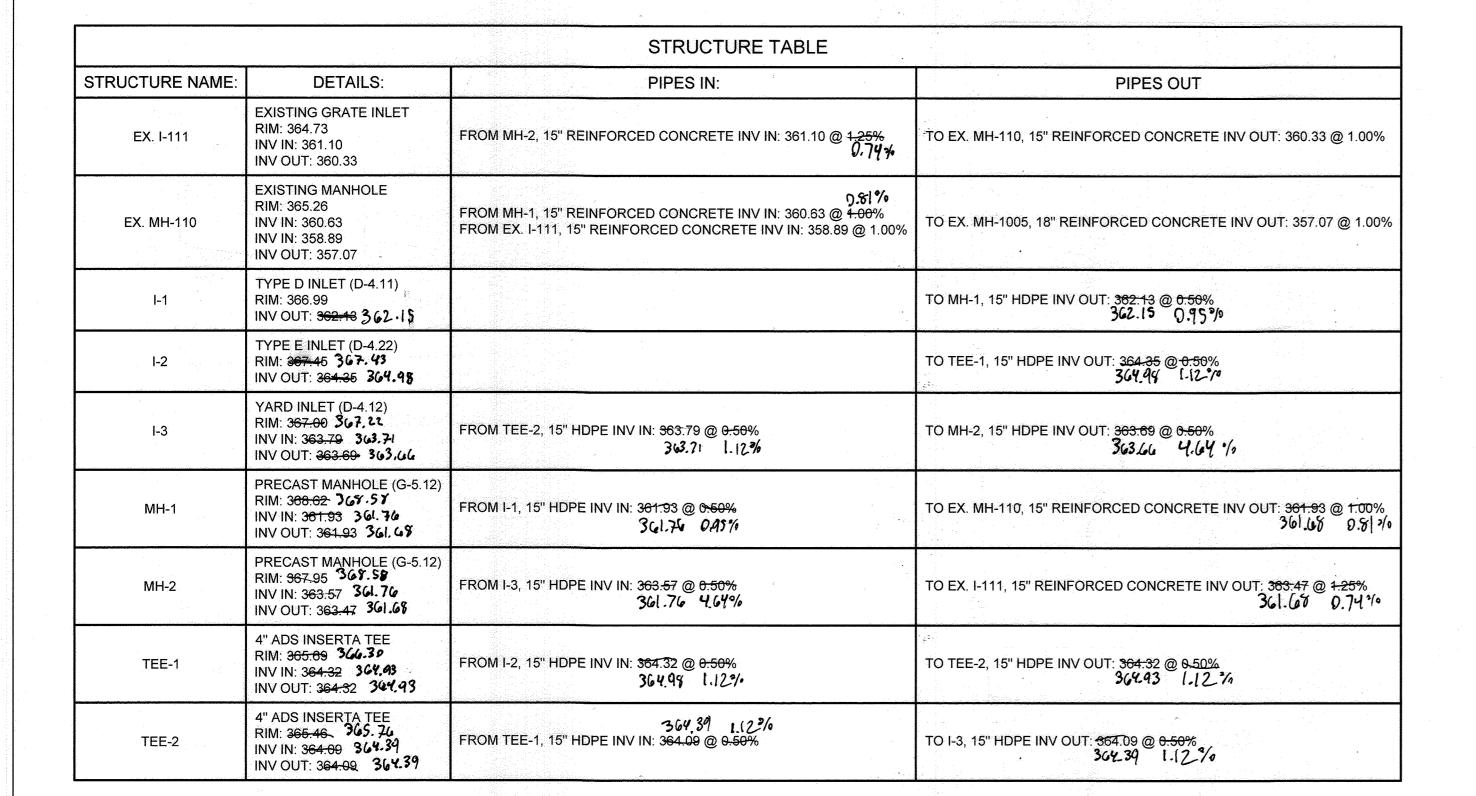
GRADE RINGS/RISERS

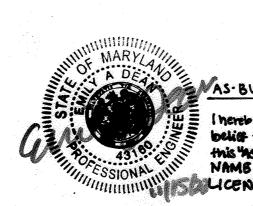
- The Stormceptor water quality structure shall be periodically inspected and cleaned to maintain operation and function. The owner shall inspect the Stormceptor unit yearly at a minimum, utilizing the Stormceptor Inspection/Monitoring Form. Inspections shall be done by using a clear Plexiglas tube ("sludge judge") to extract a water column sample. When the sediment depths exceed the level specified in Table 6 of the Stormceptor
- Technical Manual, the unit must be cleaned. The Stormceptor water quality structure shall be checked and cleaned immediately after petroleum spills. The owner shall contact the appropriate regulatory agencies. The maintenance of the Stormceptor unit shall be done using a vacuum truck which will
- remove the water, sediment, debris, floating hydrocarbons and other materials in the unit. Proper cleaning and disposal of the removed materials and liquid must be followed by The inlet and outlet pipes shall be checked for any obstructions at least once every six months. If obstructions are found the owner shall have them removed. Structural parts
- of the Stormceptor unit shall be repaired as needed. The owner shall retain and make the Stormceptor Inspection/Monitoring Forms available the Howard County officials upon their request.

	(HD) Edmondson	12/19/2022
Chief, Development E	ngine 67 ns. Lavision	Date 12/19/2022
Chief, Division of Lan	d Development Docusigned by: Amy 610nan	Date 12/20/2022
Planning Director		Date

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LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY

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Subdivision Name GATEWAY C	OMMERCE	CENTER	Section/Area N	I/A	Lot/Parcel No. 513	
Plat # or L/F	Grid #	Zoning	Tax Map No.	Elect District	Census Tract	
10805	0006	B-2	042	6	606707	
Water Code			Sewer Code			
E06			49000000			





AS-BUILT CERTIFICATION hereby anity, by my seal, that to the best of my knowledge and belief the facilities shown on this plan were constructed as shown on this "AS-EUILT" plan meet the Approved Plans and Specifications.

NAME DOWN DATE 11/5/23

LICENSONO. 43/60 PRITE OF AS- WILT 9/26/23

FOR REVIEW 11400 COMMERCE PARK DR., SUITE 400, RESTON, VA 20191 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

Sheet Title:

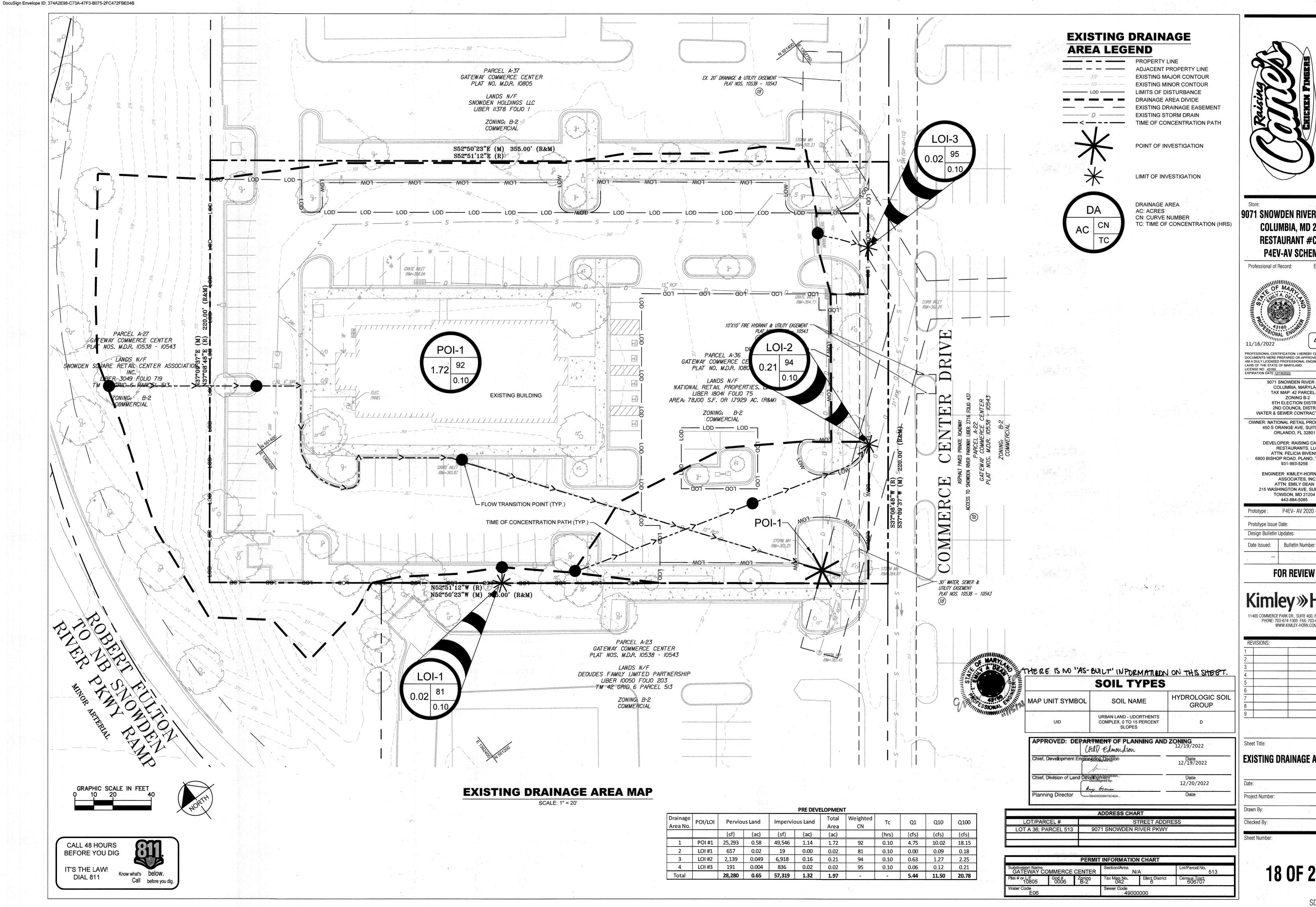
STORM DRAIN DETAILS

Date 9/26/2023 41/09/2022 Project Number: 110723018 Drawn By: JAM

Checked By: Sheet Number: AS-BUILT

CONTECH

www.contechES.com 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45059



9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

EMILY A. DEAN Professional of Record:



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 43160
EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 ZONING B-2 **6TH ELECTION DISTRICT**

2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900

ORLANDO, FL 32801 DEVELOPER: RAISING CANE'S

RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204

443-884-5085

Prototype: P4EV- AV 2020 - 2.0 RELEASE 7.14.2020 Prototype Issue Date: Design Bulletin Updates

11400 COMMERCE PARK DR., SUITE 400, RESTON, VA 20191 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

FOR REVIEW

EXISTING DRAINAGE AREA MAP

11/09/2022 Project Number: 110723018 Checked By:

Sheet Number:

PROPOSED DRAINAGE **AREA LEGEND**

PROPERTY LINE ADJACENT PROPERTY LINE **EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR** PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR LIMITS OF DISTURBANCE DRAINAGE AREA DIVIDE EXISTING DRAINAGE EASEMENT EXISTING STORM DRAIN PROPOSED STORM DRAIN PIPE PROPOSED ROOF DRAIN

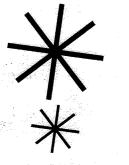


MANHOLE PROPOSED STORM INLETS

PROPOSED SWM FACILITY

PROPOSED STORM DRAIN

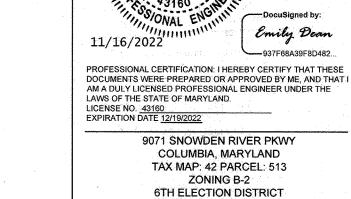
TIME OF CONCENTRATION PATH



POINT OF INVESTIGATION

LIMIT OF INVESTIGATION

DRAINAGE AREA AC: ACRES CN: CURVE NUMBER TC: TIME OF CONCENTRATION (HRS)



ORLANDO, FL 32801

RESTAURANTS, LLC ATTN: FELICIA BIVENS 931-993-5258

ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204

7.14.2020 Prototype Issue Date: Design Bulletin Updates:

Date Issued: Bulletin Number:

FOR REVIEW

URBAN LAND - UDORTHENTS COMPLEX, 0 TO 15 PERCENT SLOPES

HYDROLOGIC SOIL

GROUP

	CHID Edmondson	12/19/2022
Chief, Development E	nginesting Pivision	Date 12/19/2022
Chief, Division of Lan	d Devel B/54/84/21849A Docusigned by: Amy 61 on an	Date 12/20/2022
Planning Director	5B4D5DD9470C4D4	Dale

SOIL TYPES

SOIL NAME

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LOT/PARCEL#	STREET ADDRESS
OT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY
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PERMIT INFORMATION CHART Subdivision Name GATEWAY COMMERCE CENTER Census Tract 606707



9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A** EMILY A. DEAN Professional of Record:



9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND

2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 DEVELOPER: RAISING CANE'S

6800 BISHOP ROAD, PLANO, TX 75024 ENGINEER: KIMLEY-HORN AND

443-884-5085 Prototype: P4EV- AV 2020 - 2.0 RELEASE

11400 COMMERCE PARK DR., SUITE 400, RESTON, VA 20191 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

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PROPOSED DRAINAGE AREA MAP

Date:	9/26/2013 41/09/2022
Project Number:	110723018
Drawn By:	JAM
Checked By:	EAD
Sheet Number: A&	BUILT

CALL 48 HOURS BEFORE YOU DIG

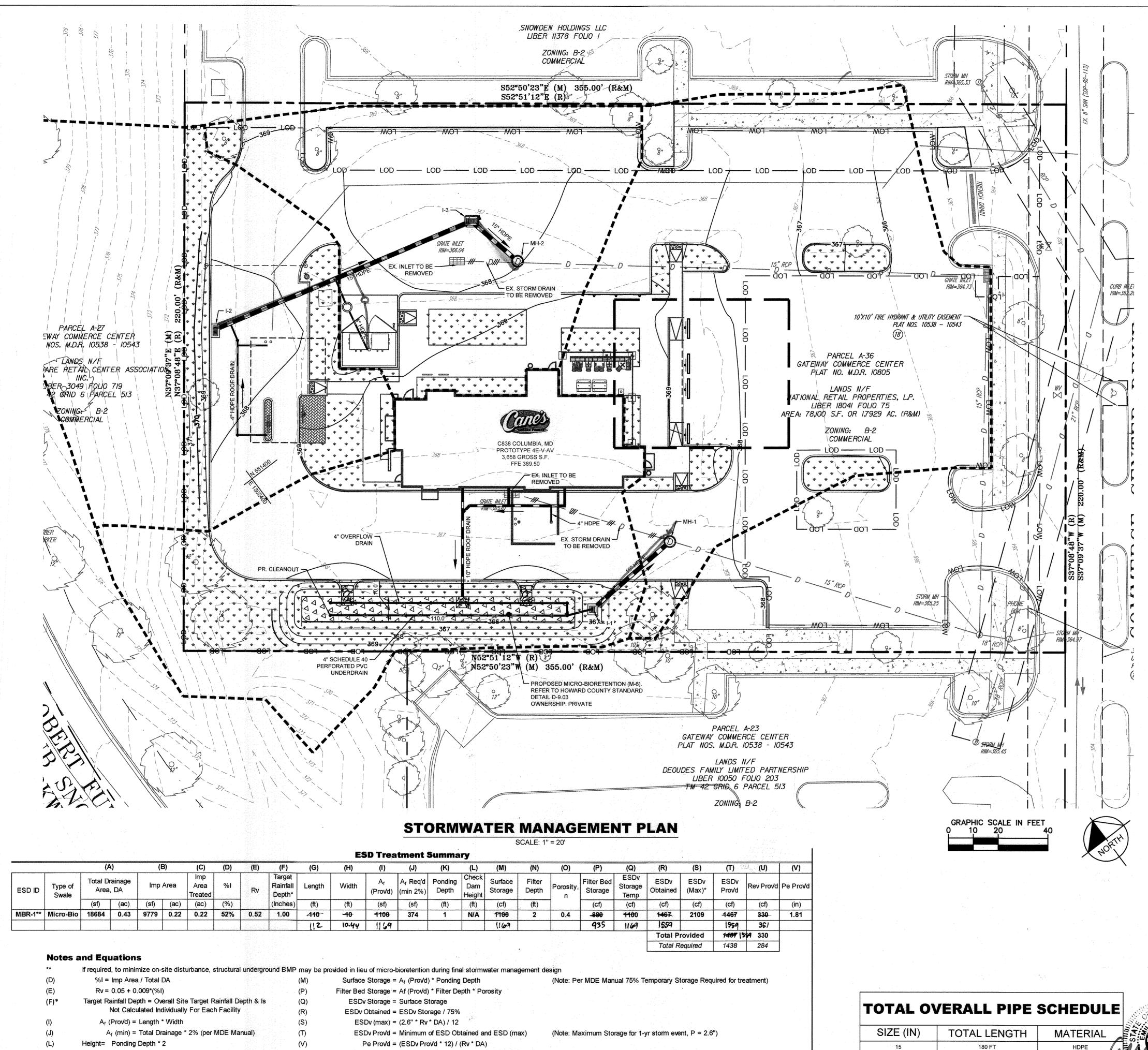
IT'S THE LAW!

DIAL 811

Know what's **below**.

before you di

Call



Rev Prov'd = Porosity*Filter Area*Gravel Depth Below Underdrain (6")

SWM LEGEND

ADJACENT PROPERTY LINE LIMITS OF DISTURBANCE LIMITS OF WORK PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR SWM DRAINAGE AREA

PROPOSED SWM FACILITY

PROPOSED RIPRAP

—/// D — /// EXISTING STORM DRAIN TO BE REMC PROPOSED STORM DRAIN PIPE PROPOSED ROOF DRAIN PROPOSED UNDERDRAIN

9071 SNOWDEN RIVER PARKWAY

COLUMBIA, MD 21046

RESTAURANT #C0838

P4EV-AV SCHEME A

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE

DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND

TAX MAP: 42 PARCEL: 513

ZONING B-2 6TH ELECTION DISTRICT

2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

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450 S ORANGE AVE, SUITE 900

ORLANDO, FL 32801

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6800 BISHOP ROAD, PLANO, TX 75024

931-993-5258

ENGINEER: KIMLEY-HORN AND

ASSOCIATES, INC.

ATTN: EMILY DEAN

215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204 443-884-5085

Prototype: P4EV- AV 2020 - 2.0 RELEASE

FOR REVIEW

PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

STORMWATER MANAGEMENT

PLAN

9/26/2023-11/09/2022

110723018

Date:

Project Number:

Drawn By:

Checked By:

7.14.2020

Prototype Issue Date:

Design Bulletin Updates

Date Issued: Bulletin Number:

RESTAURANTS, LLC ATTN: FELICIA BIVENS

EMILY A. DEAN

Professional of Record:

11/16/2022

LICENSE NO. 43160 EXPIRATION DATE 12/19/2022

PROPOSED STORM DRAIN MANHOLE

PROPOSED STORM INLETS

(100%)(Proposed Impervious-Existing Impervious)

1438 cf

PROPOSED CLEANOUT

Stormwater Management - Environmental Site Design

Site Drainage Area Data:	remarks and	1.5		
Step 1. Determine Area Requiring Tre	atment			_
Project Site Area:	1.79		acres	
Project Limit of Work Area, A:	1.18	Landride Communication	acres	
Existing Impervious Area:	1.39		acres	
Existing % Impervious, I:	78%			> 40%, therefore Redevelopment
Existing Impervious Area within Project Limit of Work:	0.90		acres	
Proposed Impervious Area within Project Limit of Work:	0.87		acres	
Proposed % Impervious, I:	76%			Includes entire parcel area
Imp Area to Treat, A _T :	0.42		acres	AT=(50%)(Existing Impervious)+

Step 2. Determine Required Treatment Volume A. Determine Target P_E & ESDv Using Table 5.3 (MDE SWM Manual Section 5-page 5.21)

> 0.05 + (0.009 * (1))0.950 ESDv =

 $[(P_E)(R_v)(A_T)]/12$ (Determine PE from Table 5.3)

Target ESDv = 0.033 ac-ft B. Determine SWM Treatment Provided

Imp.Area **ESD Practice** Treated (ac) 0.43 0.22 1467 Micro-Bioretention 0.22 acres 1467 cf Provided 0.42 acres 1438 cf Required

Prov'd Rev = 0.008 ac-ft

Confirm Stormwater Management Treatment Target ESDv = 1438 cf

> 1467 cf Prov'd ESDv =

C. Calculate Recharge (Rev) Requirements $[(S)(R_v)(A)]/12$

Target Rev = 0.007 ac-ft 284 cf

330 cf

D. Calculate Channel Protection (Cpv) Requirements

E. Calculate Overbank Flood Protection (Qp10) Requirements

F. Calculate Extreme Flood Protection (Q_{p100}) Requirements

	SOIL TYPES	
MAP UNIT SYMBOL	SOIL NAME	HYDROLOGIC SOIL GROUP
UtD	URBAN LAND - UDORTHENTS COMPLEX, 0 TO 15 PERCENT SLOPES	D

APPROVED: DE	PARTMENT OF PLANNING (HD) Edmondson	AND ZONING 12/19/2022
Chief, Development B	ngine group and sion	Date 12/19/2022
Chief, Division of Lan	d Development B49A Docusigned by: Amy 610nan	Date 12/20/2022
Planning Director	5B4D5DD9470C4D4	Date

ADDRESS CHART						
LOT/PARCEL#	STREET ADDRESS					
OT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY					

Zoning B-2

I hereby certify, by my seal, that to the best of my knowledge and belief the facilities shown on this plan were constructed as shown on this "AS-BUILT" plan meet the Approved Planck and Specifications.

NAME CANALLY DAM DATE DATE OF AS-BUILT 91-26/23 GATEWAY COMMERCE CENTER Plat # or L/F 10805

77 FT

PVC

AS-BUILT CERTIFICATION

8

PERMIT INFORMATION CHART

49000000

Census Tract 606707

20 OF 26

Sheet Number: AS-BUILT

B.4.C Specifications for Micro-Bioretention. Rain Gardens, Landscape Infiltration & **Infiltration Berms**

1. Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

2. Filtering Media or Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the microbioretention practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05.

The planting soil shall be tested and shall meet the following criteria:

- Soil Component Loamy Sand or Sandy Loam (USDA Soil Textural Classification)
- Organic Content Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).
- Clay Content Media shall have a clay content of less than 5%.
- pH Range Should be between 5.5 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

3. Compaction

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand. then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

Plant Material

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DIAL 811

Know what's below.

before you di

Call

Recommended plant material for micro-bioretention practices can be found in Appendix A, Section A.2.3.

Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

[OPERATION AND MAINTENANCE SCHEDULE FOR LANDSCAPE INFILTRATION (M-3) MICRO-BIORETENTION (M-6), RAIN GARDENS (M-7), BIORETENTION SWALE (M-8), ENHANCED FILTERS (M-9)1

- a. The Owner shall maintain the plant material, mulch layer and soil layer annually. Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland Stormwater Design Manual Volume II, Table A.4.1 and 2.
- The Owner shall perform a plant in the spring and in the fall of each year. During the inspection, the Owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material, treat diseased trees and shrubs, and replace all deficient stakes and
- The Owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the new layer is applied.
- The Owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm...

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

6. Underdrains

Underdrains should meet the following criteria:

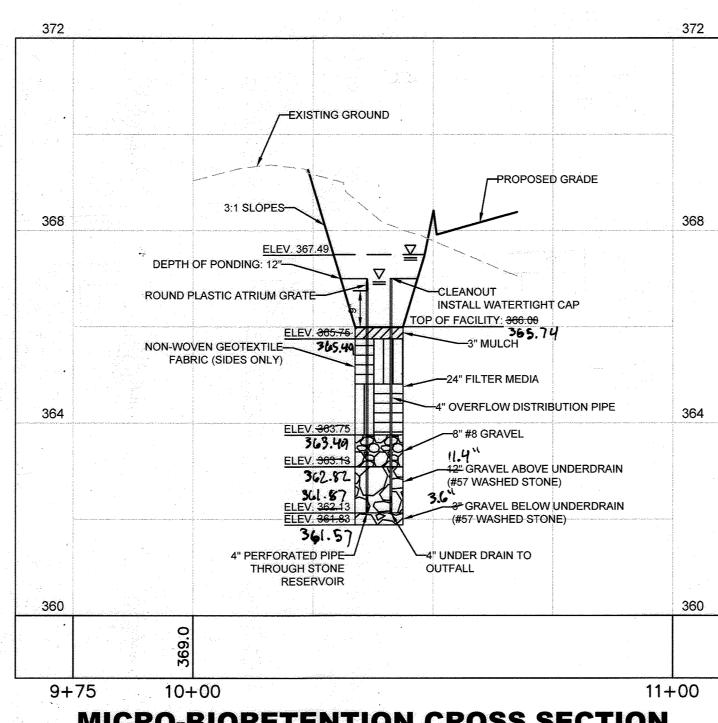
- Pipe- Should be 4" to 6" diameter, slotted or perforated rigid plastic pipe (ASTMF 758, Type PS 28, or AASHTO-M-278) in a gravel layer. The preferred material is slotted, 4" rigid pipe (e.g., PVC or HDPE).
- Perforations If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4" (No. 4 or 4x4) galvanized hardware cloth,
- Gravel The gravel layer (No. 57 stone preferred) shall be at least 3" thick above and below the
- The main collector pipe shall be at a minimum 0.5% slope.
- A rigid, non-perforated observation well must be provided (one per every 1,0000 square feet) to provide a clean-out port and monitor performance of the filter.
- A 4" layer of pea gravel (1/8" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".

The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).

7. Miscellaneous

These practices may not be constructed until all contributing drainage area has been stabilized

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil [2' to 4' deep]	loamy sand (60 - 65%) & compost (35 - 40%) or	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
10 m	sandy loam (30%), coarse sand (30%) & compost (40%)		
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; f'c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland design to include meeting ACI Code 350.R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand

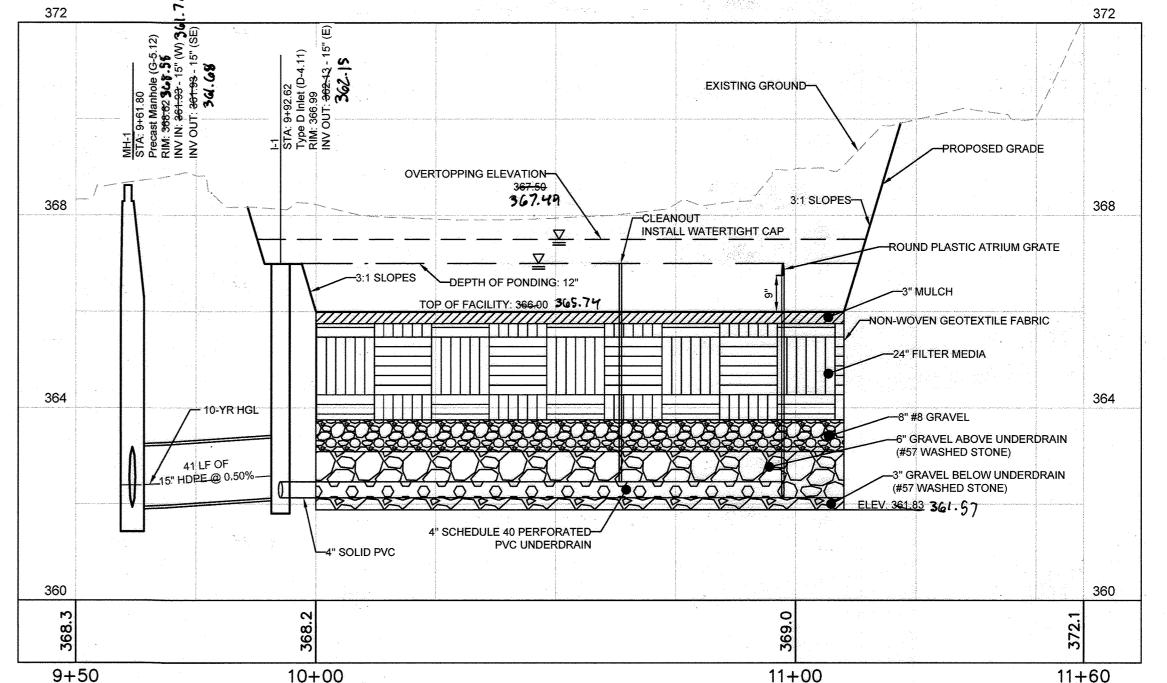


MICRO-BIORETENTION CROSS SECTION SCALE: 1" = 20' H

1" = 2' V

. FACILITY SHALL BE A MINIMUM OF 10FT FROM ANY BUILDING DEPTH FACILITY SHALL BE INSTALLED IN EXCAVATED VIRGIN SOIL (NOT FILL). . FACILITY SHALL BE MINIMUM 4' ABOVE THE SEASONAL HIGH WATER TABLE. REGULAR INSPECTIONS SHALL BE REQUIRED DURING FOLLOWING STAGES OF THE CONSTRUCTION. AS-BUILT FACILITY ELEVATIONS CONTOUR E1 ____ FT CORNER DURING EXCAVATION TO SUBGRADE AND PLACEMENT AND BACKFILL OF UNDERDRAIN SYSTEMS. E2 ___ FT CORNER DURING PLACEMENT OF PLANTING MEDIA.
DURING CONSTRUCTION OF APPURTENANT CONVEYANCE.
UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF
PERMANENT STABILIZATION. A E3 ___ FT CORNER E4 ____ FT CORNER E5 ____ FT CENTER PERMANENT STABILIZATION.
E1 TO E8 AS-BUILT SPOT ELEVATION LOCATIONS.
THIS STANDARD IS A REFERENCE TO SHOW THE ELEMENTS AND MINIMUM DIMENSIONS FOR A MICRO-BIORENTENTION FACILITY. EACH FACILITY SHALL BE DESIGNED AND APPROVED ON A SITE SPECIFIC BASIS. THIS DETAIL PROVIDES BLANK SPACES TO INFORM WHERE AS-BUILT INFORMATION IS REQUIRED FOR SWM CLOSEOUT. E8 CONTOUR E6 ___ FT LOW SIDE AT TOP OF THE SLOPE E7 ____ FT OUTFALL E8 ____ FT TOP OF INLET <u>PLAN</u> 3" MULCH LAYER 24"-48" PLANTING MEDIA 8" #8 STONE -6" MIN. ABOVE UNDERDRAIN-_ 3" MIN. BELOW UNDERDRAIN-12° MIN. 6"-SCH 40 PERFORATED OR SLOTTED PVC PIPE @ 0.5% WRAPPED WITH 14" HARDWARE MESH -6"-SCH 40 SOLID PVC PIPE SECTION A-A Howard County, Maryland Department of Public Works MICRO-BIORETENTION FACILITY D - 9.03Approved: mornas & Sutlin Private For Reference Chief, Bureau of Engineering

AS-BUILT FACILITY DIMENSIONS



MICRO-BIORETENTION FACILITY PROFILE

SCALE: 1" = 20' H

1" = 2' V NOTE: WRAP THE PERFORATED UNDERDRAIN PIPE WITH 1/2" WIRE MESH OR GALVANIZED HARDWARE CLOTH.

	Stormwater Management - SWM Facility Summary													
-	And the state of t					The second secon								
ESD ID	ESD Type	Mulch Top Elev	FilterTop Elev	Filter Bed Depth	Top of Pea Gravel	Depth of #8 Gravel	Top of Gravel Elev	Underdra ìn Size	Inv Elev of Underdra	Depth of Gravel	Bottom of Facility	Depth of Ponding	Grate Elevation	Overtopping Elev
		(ft)	(ft)	(ft)	(ft)	(in)	(ft)	(in)	(ft)	(in)	(ft)	(in)	(ft)	(ft)
MBR-1	Micro-Bio	366.00	365.75	2	363.75	8	-363.08	6	362.13	15	361.83	12	367.00	367-50

362.82

365.74 365.49

hereby cents, by my seal, that to the loest of my knowledge and

GRAPHIC SCALE IN FEET

HORIZONTAL

this "Ac-aull" plan meet the Approved plans and specifications.

NAME EMULA DECA DATE 11/15/2015

he facilities shown on this plan were constructed as shown on

363.49

VERTICAL

APPROVED: DEPARTMENT OF PLANNING AND ZONING
12/19/2022 (Hal) Edmondson Chief, Development Engineering Division Date 12/19/2022 Chief, Division of Land Development by 12/20/2022 Planning Director AS-BUILT CERTIFICATION

361.87

361.57

an a	ADDRESS CHART	
LOT/PARCEL#	STREET ADDRESS	
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY	
	Allestina de la companie del mana de como de como de la	6

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	and a second and a second	PERMIT	INFORMATIO	N CHART	en e	and a construction of the
Subdivision Name GATEWAY C	OMMERCE	CENTER	Section/Area N	/A	Lot/Parcel No.	513
Plat # or I /F 10805	Grid # 0006	Zoning B-2	Tax Map No. 042	Elect District	Census Tract 606707	
Water Code E06			Sewer Code 4900	0000		



9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 43160 EXPIRATION DATE 12/19/2022 9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 **ZONING B-2**

6TH ELECTION DISTRICT

2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON MD 21204 443-884-5085

Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: 7.14.2020 Design Bulletin Updates: Date Issued: Bulletin Number:

FOR REVIEW

PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

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Sheet Title: **SWM DETAILS**

Date: 9/26/2023 11/09/2022 Project Number: 110723018

eet Number: AS-BUILT

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9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A**

EMILY A. DEAN



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE

9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513

ZONING B-2 6TH ELECTION DISTRICT 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP

> ORLANDO, FL 32801 DEVELOPER: RAISING CANE'S RESTAURANTS, LLC

6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258 ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN

215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204 443-884-5085

7.14.2020 Date Issued: Bulletin Number:

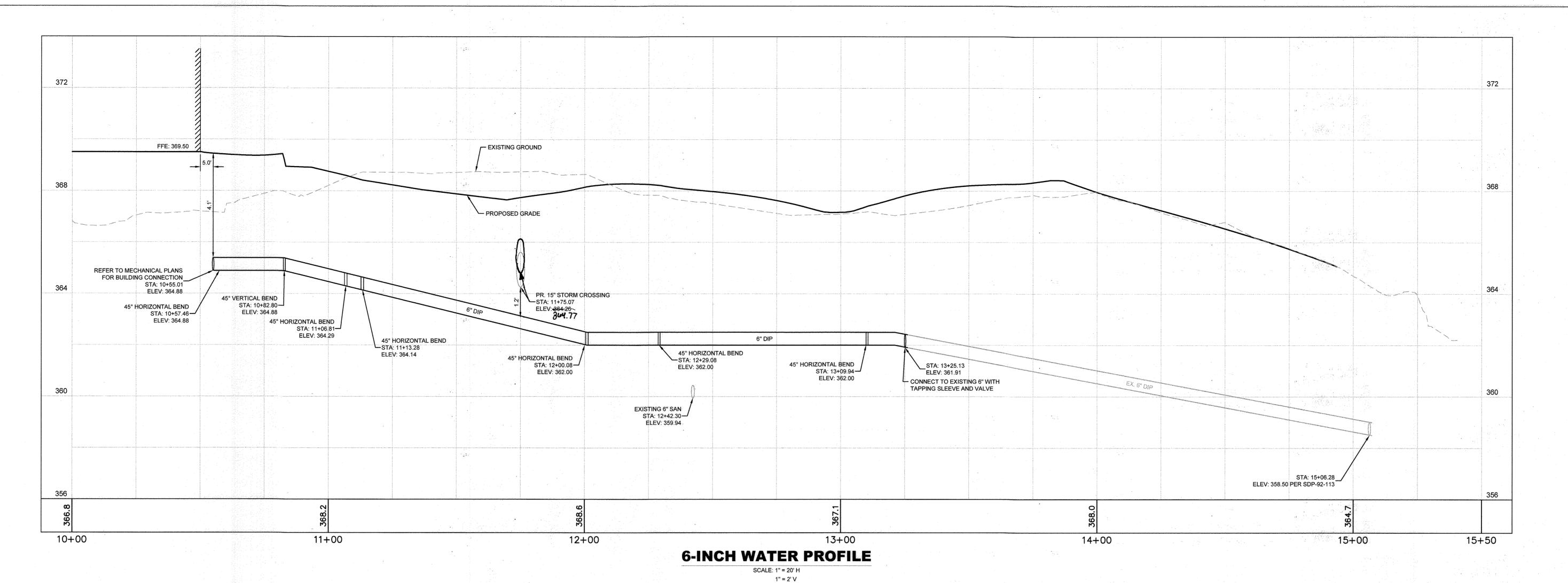
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UTILITY PLAN

Date:	9/4/2023 11/09/2022
Project Number:	110723018
Drawn By:	JAN
Checked By:	EAD



SANITARY STRUCTURE TABLE PIPES IN: PIPES OUT STRUCTURE NAME: **DETAILS**: **CLEANOUT S-2.22** RIM: 369.37 FROM BUILDING, 6" PVC INV IN: 364.95 @ 2.00% CO-1 TO CO-2, 6" PVC INV OUT: 364.95 @ 2.00% INV IN: 364.95 INV OUT: 364.95 **CLEANOUT S-2.22** RIM: 369.32 FROM CO-1, 6" PVC INV IN: 364.91 @ 2.00% TO GREASE TRAP (IN), 6" PVC INV OUT: 364.91 @ 2.00% CO-2 INV IN: 364.91 INV OUT: 364.91 **CLEANOUT S-2.22** RIM: 369.05 CO-3 FROM GREASE TRAP (OUT), 6" PVC INV IN: 364.47 @ 4.00% TO CO-4, 6" PVC INV OUT: 364.47 @ 4.00% INV IN: 364.47 INV OUT: 364.47 **CLEANOUT S-2.22**

FROM CO-3, 6" PVC INV IN: 364.22 @ 4.00%

FROM CO-5, 4" PVC INV IN: 364.22 @ 2.00%

FROM CO-4, 6" PVC INV IN: 362.58 @ 4.00%

TO SMH-1, 6" PVC INV OUT: 364.22 @ 4.00%

TO EX. PVC, 6" PVC INV OUT: 360.86 @ 4.58%

NOTE:

1. ALL PIPES AND STRUCTURES SHOWN ON BOTH THE 6-INCH WATER AND 6-INCH SEWER PROFILES ARE PRIVATE UTILITIES.

PRECAST DOGHOUSE MANHOLE G-5.14

RIM: 368.88

INV IN: 364.22

INV IN: 364.22

RIM: 367.80

Know what's below.

Call before you dig.

INV IN: 362.58

INV OUT: 360.86

INV OUT: 364.22

CO-4

SMH-1

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW!

DIAL 811

376 376 372 372 4: 10+78.88 anout S-2.22 f: 368.88 fin: 364.22 fin: 364.22 OUT: 364.22 - PROPOSED GRADE 368 EXISTING GROUND PROPOSED UGE CROSSING PR.¾" W CROSSING —STA: 10+86.91 ELEV: 365.40 REFER TO MEP PLANS FOR -BUILDING CONNECTION 364 PR. STORM DRAIN CROSSING 5 LF OF 6" PVC @ 2.00% STA: 11+30.09 ELEV: 364:23 2 LF OF 6" PVC @ 4.00% 364.65 41 LF OF 6" PVC @ 4.00% 6" PVC @ 4.00% 6" PVC @ 4.58% 360 CONNECT TO EXISTING 6" SEWER STA: 11+30.54 CONTRACTOR TO CONFIRM ELEV. OF EXISITING SEWER STA: 11+22.44 ELEV: 360.86 358 12+00 10+00 11+00 **6-INCH SEWER PROFILE**

> SCALE: 1" = 20' H 1" = 2' V

As-Built Certification

I horsely certify, by my scal, that to the best of my knowledge and belief the facilities shown on this plan were constructed as shown on this plan were constructed as shown on this plan were plans and specifications.

NAME

DATE

DAT

GRAPHIC SCALE IN FEET

HORIZONTAL

	EPARTMENT OF PLANNING (HD) Edmondson	12/19/2022
Chief, Development	Engine Ring Livision	Date 12/19/2022
Chief, Division of La	nd Development Docusigned by: Amy Gonan	Date 12/20/2022
Planning Director	5B4D5DD9470C4D4	Dale

LOT/PARCEL#	STREET ADDRESS
LOT A 36; PARCEL 513	9071 SNOWDEN RIVER PKWY
and the control of the second control of the	

CHICKEN FINGERS

Restaurant Support Office
6800 Bishop Road, Plano, TX 75024

9071 SNOWDEN RIVER PARKWAY
COLUMBIA, MD 21046
RESTAURANT #C0838
P4EV-AV SCHEME A

Professional of Record: EMILY A. DEAN



Emily Dean
937F68A39F8D482...
FICATION: I HEREBY CERTIFY THAT THESE
EPARED OR APPROVED BY ME, AND THAT I
PROFESSIONAL ENGINEER UNDER THE

DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 43160
EXPIRATION DATE 12/19/2022

9071 SNOWDEN RIVER PKWY
COLUMBIA, MARYLAND
TAX MAP: 42 PARCEL: 513
ZONING B-2
6TH ELECTION DISTRICT
2ND COUNCIL DISTRICT
WATER & SEWER CONTRACT #: 24-3185

OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND
ASSOCIATES, INC.
ATTN: EMILY DEAN
215 WASHINGTON AVE, SUITE 500
TOWSON, MD 21204
443-884-5085

Prototype:	P4EV- AV 2020 - 3	2.0 RELEASE
Prototype Issue	Date:	7.14.2020
Design Bulletin	Updates:	
Date Issued:	Bulletin Number:	

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Kimley» Horn

11400 COMMERCE PARK DR., SUITE 400, RESTON, VA 20191

PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM

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Sheet Title:

UTILITY PROFILES

 Date:
 9126/2023
 11/09/2022

 Project Number:
 110723018

 Drawn By:
 JAM

 Checked By:
 FAR

Sheet Number: AS-BUILT

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CALL 48 HOURS BEFORE YOU DIG

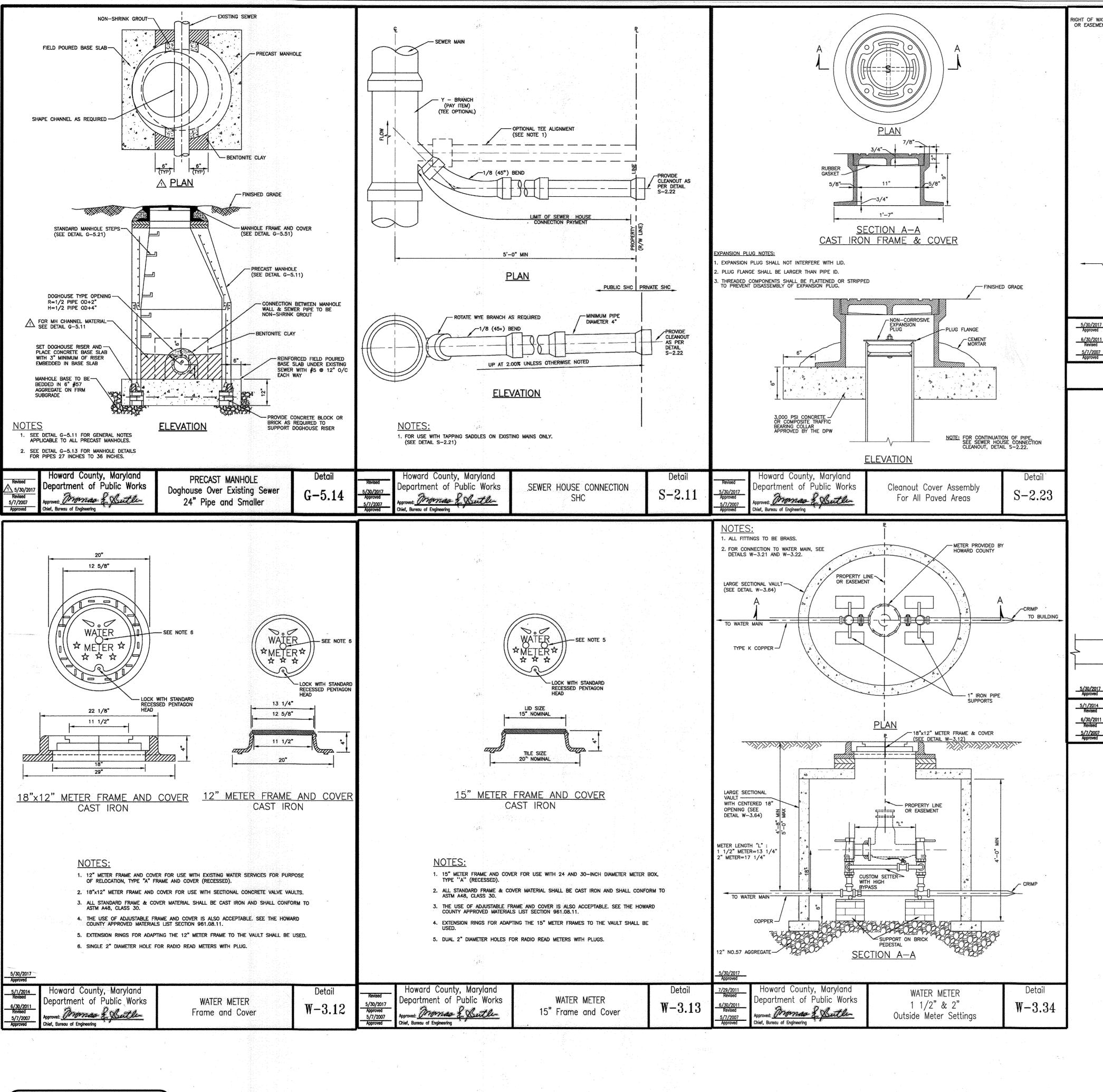
IT'S THE LAW!

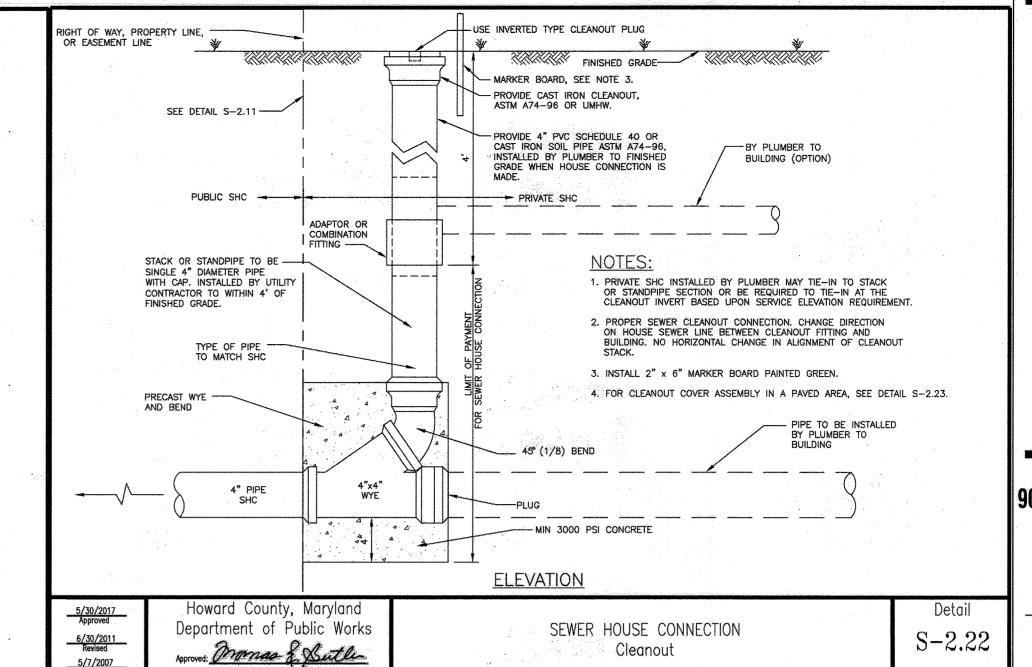
DIAL 811

Know what's **below**.

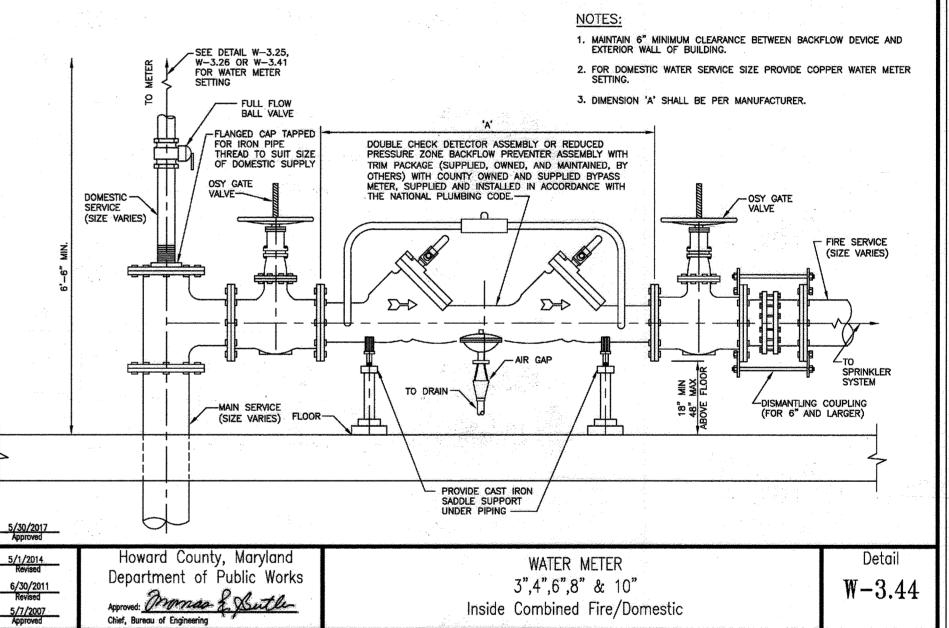
before you dig

Call





Chief, Bureau of Engineering



Inside Combined Fire/Domestic

MITHERE IS NO "AS-BUILT" IN FORMATION ON THIS SHEET.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
12/19/2022

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CHAD Edmondson

hief, Development Engineering Divis

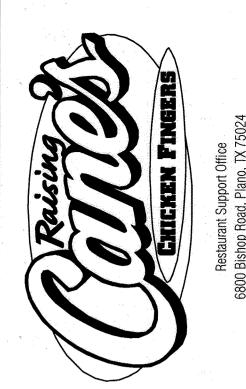
Chief, Division of Land Development

LOT A 36: PARCEL 513 9071 SNOWDEN RIVER PKWY

Planning Director

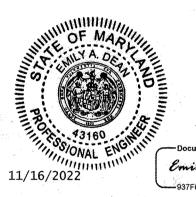
LOT/PARCEL#

Plat # or L/F 10805



9071 SNOWDEN RIVER PARKWAY COLUMBIA, MD 21046 **RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: EMILY A. DEAN



ROFESSIONAL CERTIFICATION: THEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE

LAWS OF THE STATE OF MARYLAND. LICENSE NO. 43160 EXPIRATION DATE 12/19/2022 9071 SNOWDEN RIVER PKWY COLUMBIA, MARYLAND

TAX MAP: 42 PARCEL: 513 **ZONING B-2 6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185 OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900

ORLANDO, FL 32801 DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204

Prototype: P4EV- AV 2020 - 2.0 RELEASE 7.14.2020 Prototype Issue Date:

443-884-5085

Design Bulletin Updates: Date Issued: Bulletin Number:

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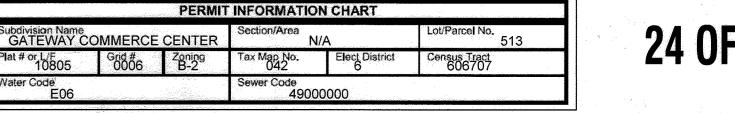
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UTILITY DETAILS

Date: 11/09/2022 Project Number: 110723018 Drawn By: Checked By: EAD

24 OF 26

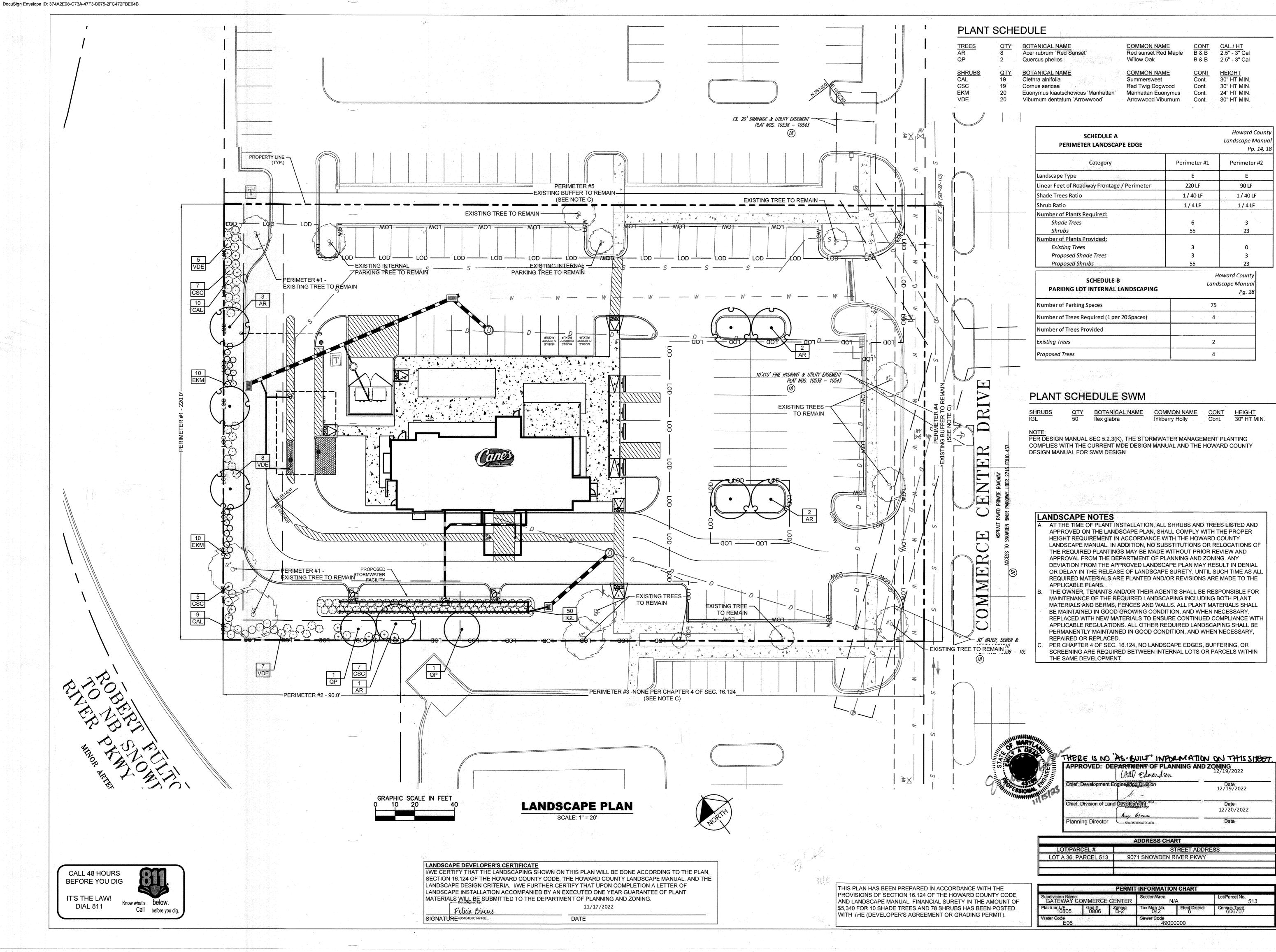
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STREET ADDRESS

Date 12/19/2022

12/20/2022



9071 SNOWDEN RIVER PARKWAY **COLUMBIA, MD 21046 RESTAURANT #C0838 P4EV-AV SCHEME A**

Professional of Record: W. DAVIS WALKER

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE

DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 4118
EXPIRATION DATE 06/09/2022

COLUMBIA, MARYLAND TAX MAP: 42 PARCEL: 513 **6TH ELECTION DISTRICT** 2ND COUNCIL DISTRICT WATER & SEWER CONTRACT #: 24-3185

9071 SNOWDEN RIVER PKWY

OWNER: NATIONAL RETAIL PROPERTIES LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

DEVELOPER: RAISING CANE'S RESTAURANTS, LLC ATTN: FELICIA BIVENS 6800 BISHOP ROAD, PLANO, TX 75024 931-993-5258

ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. ATTN: EMILY DEAN 215 WASHINGTON AVE, SUITE 500 TOWSON, MD 21204

Prototype: P4EV- AV 2020 - 2.0 RELEASE Prototype Issue Date: 7.14.2020 Design Bulletin Updates:

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LANDSCAPE PLAN

Date.	11/09/2022
Project Number:	110723018
Drawn By:	JAM
Checked By:	EAD
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25 OF 26