#### **RESOLUTION No. 23-168**

#### A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, APPROVING THE SITE PLAN FOR CHICK FIL-A, FOR THE PROPERTY LOCATED AT 8705 NW 35 LANE, DORAL, FLORIDA, PURSUANT TO SECTION 53-184(F) OF THE CITY'S LAND DEVELOPMENT CODE; AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, Article III of Chapter 53 of the Land Development Code of the City of Doral ("City") establishes procedures for Mayor and City Council site plan review and approval; and

WHEREAS, Chick-fil-A, Inc., (the "Applicant") is seeking site plan approval for the property located at 8705 NW 35 Lane, further identified by the Miami-Dade County Property Appraiser by Folio No. 35-3028-018-0010 (the "Property"), as legally described in "Exhibit A" (the "Project"); and

WHEREAS, City staff finds that the proposed site plan, attached hereto as "Exhibit B," complies with the requirements and standards of the City's Land Development Code and Comprehensive Plan; and

**WHEREAS,** a zoning workshop was held on January 12, 2023, during which the public was afforded an opportunity to examine the Project and provide feedback; and

WHEREAS, after notice of public hearing duly published and notifications of all property owners of record within 500-foot radius, a public hearing was held before the Mayor and City Council on September 27, 2023, during which all interested persons were afforded the opportunity to be heard, and due and proper consideration was given to the matter, including the recommendations contained in the City's Planning and Zoning Staff Report; and

WHEREAS, the City Council reviewed the site plan, the written and oral

recommendations of the Planning and Zoning Department, including the recommended conditions, and hereby finds competent substantial evidence to find the site plan is in compliance with the City's Comprehensive Plan and Land Development Regulations, and that the site plan maintains the basic intent and purpose of the zoning, subdivision or other land use regulations, which is to protect the general welfare of the public, and further finds that the site plan application should be granted, subject to the conditions described herein.

### NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, AS FOLLOWS:

**Section 1. Recitals.** The foregoing recitals are confirmed, adopted, and incorporated herein and made as part hereof by this reference.

Section 2. Findings and Conclusions. Based upon an analysis of the site plan application and standards for approval of a site plan under the City's Land Development Regulations, the City Council hereby finds and concludes that the Applicant's request for site plan, as more particularly set forth in "Exhibit B," is in compliance with the Comprehensive Plan and the Land Development Regulations of the City, and there is substantial competent evidence to support approval of the Application.

**Section 3. Approval.** The Mayor and City Council hereby approve the site plan for Chick-fil-A, Inc., for the property located at 8705 NW 35 Lane, further identified by a portion of folio number 35-3028-018-0010, as legally described in "Exhibit A." The site plan consists of a property of ±1.11 acres occupied by a single-story fast-food restaurant with a drive-thru only (no interior seating) and a limited number of exterior seating (approximately 16 seats and 4 tables). A copy of the site plan is provided in "Exhibit B." The approval of the site plan is subject to the following conditions:

- 1. The Project shall be built in substantial compliance with the plans entitled "Chick-Fil-A East Doral," prepared by Bowman Consulting Group Ltd., dated stamped received January 13, 2023.
- 2. The Project shall be landscaped in accordance with the landscape plan, prepared by Manley Land Design, Inc., dated stamped received January 13, 2023, as amended, and included with the site plan submittal.
- 3. Prior to the issuance of building permit, the Applicant must obtain approval from Miami-Dade County (MDC) Traffic Engineering Division. Note that any changes to the site plan requested by MDC that may trigger changes to traffic analysis, submittal to the city for review is required.
- 4. Approval of the traffic signal at NW 87 Ave and NW 35 Lane by the City of Doral and Miami-Dade County will require coordination between Miami-Dade County and the Applicant.
- 5. In the event the drive-thru queue from Chick-Fil-A extends to the public right-of-way, the City of Doral reserves the right to request that the Applicant provide additional staff to improve the processing rate.
- 6. The Applicant shall comply with Ordinance No. 2015-09 "Public Arts Program," as amended, at the time of building permit.
- 7. The Applicant shall comply with Chapter 63, "Green Building Incentives," of the City's Land Development Code at the time of building permit.
- 8. The Applicant shall comply with the City's Floodplain Management regulations (Chapter 23, Article II, Floodplain Management) of the City's Code.
- 9. The Applicant shall provide the Building Department a certified drainage inspection report prior to the issuance of a certificate of occupancy.
- 10. The property owner shall maintain the landscaping within the public rightsof-way adjacent to the property. Maintenance includes trees, plants, sod, and other landscape material.
- 11. The Applicant shall submit a Stormwater Pollution Prevention Plan (SWPPP) at time of building permit. The Plan should provide guidelines for implementing an erosion and sedimentation control program before the site is cleared or graded, including areas where topsoil will be removed, and contours of slopes will be cleared. The Plan shall also

include location and type of erosion control measures, storm water and sediment management systems, and a vegetative plan for temporary and permanent stabilization. The Plan shall remain on-site for the duration of the construction activity.

- 12. If more than one (1) acre of land is disturbed during construction the Contractor/Developer is responsible to obtain NPDES Stormwater permit coverage through the Florida Department of Environmental Protection (FDEP), Construction Generic Permit (CGP). If the project is less than one (1) acre, but part of a larger common plan of development or sale that will ultimately disturb one or more acres, permit coverage is also required. Instruction to request and obtain a CGP can be found at: http://www.dep.state.fl.us/water/stormwater/npdes/docs/cgp.pdf. Contractor/Developer should submit the Notice of Intent (NOI) with the appropriate processing fees to the NPDES Stormwater Notices Center. Contractor/Developer must apply for permit coverage at least two (2) days before construction begins.
- 13. Construction shall be permitted only during the hours set forth in Ordinance No. 2011-01 "Noise Ordinance."
- 14. The Applicant shall comply with all applicable conditions and requirements of the Miami-Dade County Department of Regulatory and Economic Resources.
- 15. The Applicant shall comply with all applicable conditions and requirements of the Miami-Dade County Fire Rescue Department.
- 16. All applicable local, state, and federal permits must be obtained before commencement of the development.
- 17. Issuance of this development permit by the City of Doral does not in any way create any right on the part of an Applicant to obtain a permit from a state or federal agency and does not create any liability on the part of the City of Doral for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law.
- 18. The Applicant must obtain a Certificate of Occupancy and a Certificate of Use from the City upon compliance with all terms and conditions. The Certificate of Occupancy and Certificate of Use shall be subject to cancellation upon violation of any of the conditions.

FAILURE BY THE CITY TO TIMELY ENFORCE ANY OF THE ABOVE CONDITIONS DOES NOT CONSTITUTE A WAIVER OF THE SAME AND IF THE APPLICANT, ITS SUCCESSORS, OR, ASSIGNS, DOES NOT PERFORM SUCH CONDITIONS WITHIN FIVE (5) DAYS AFTER WRITTEN NOTICE, THE CITY RETAINS THE RIGHT TO STOP CONSTRUCTION, IF NECESSARY, UNTIL THAT CONDITION IS MET. THE CITY RESERVES THE RIGHT TO ENFORCE THESE CONDITIONS BY ISSUING A CODE COMPLIANCE CITATION, REVOKING THIS RESOLUTION, AND/OR AVAILING ITSELF OF ANY AND ALL REMEDIES AVAILABLE AT LAW OR IN EQUITY. BY ACTING UNDER THIS APPROVAL, THE APPLICANT HEREBY CONSENTS TO ALL THESE TERMS AND CONDITIONS.

Section 4. Effective Date. This Resolution shall become effective immediately

upon its adoption.

Res. No. 23-168 Page **6** of **6** 

The foregoing Resolution was offered by Councilmember Puig-Corve who moved its adoption. The motion was seconded by Vice Mayor Pineyro and upon being put to a vote, the vote was as follows:

Mayor Christi Fraga Vice Mayor Rafael Pineyro Councilwoman Digna Cabral Councilwoman Maureen Porras Councilman Oscar Puig-Corve Yes Yes Absent/Excused Yes

PASSED AND ADOPTED this 27 day of September, 2023.

CHRISTI FRAGA, MAYOR

ATTEST:

CONNIE DIAZ, MMC CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:

VALERIE VICENTE, ESQ. for NABORS, GIBLIN & NICKERSON, P.A. CITY ATTORNEY

## EXHIBIT "A"

### Bowman

City of Doral Planning and Zoning Department 8401 NW 53<sup>rd</sup> Ter, 2<sup>nd</sup> Floor, Doral, FL 33166

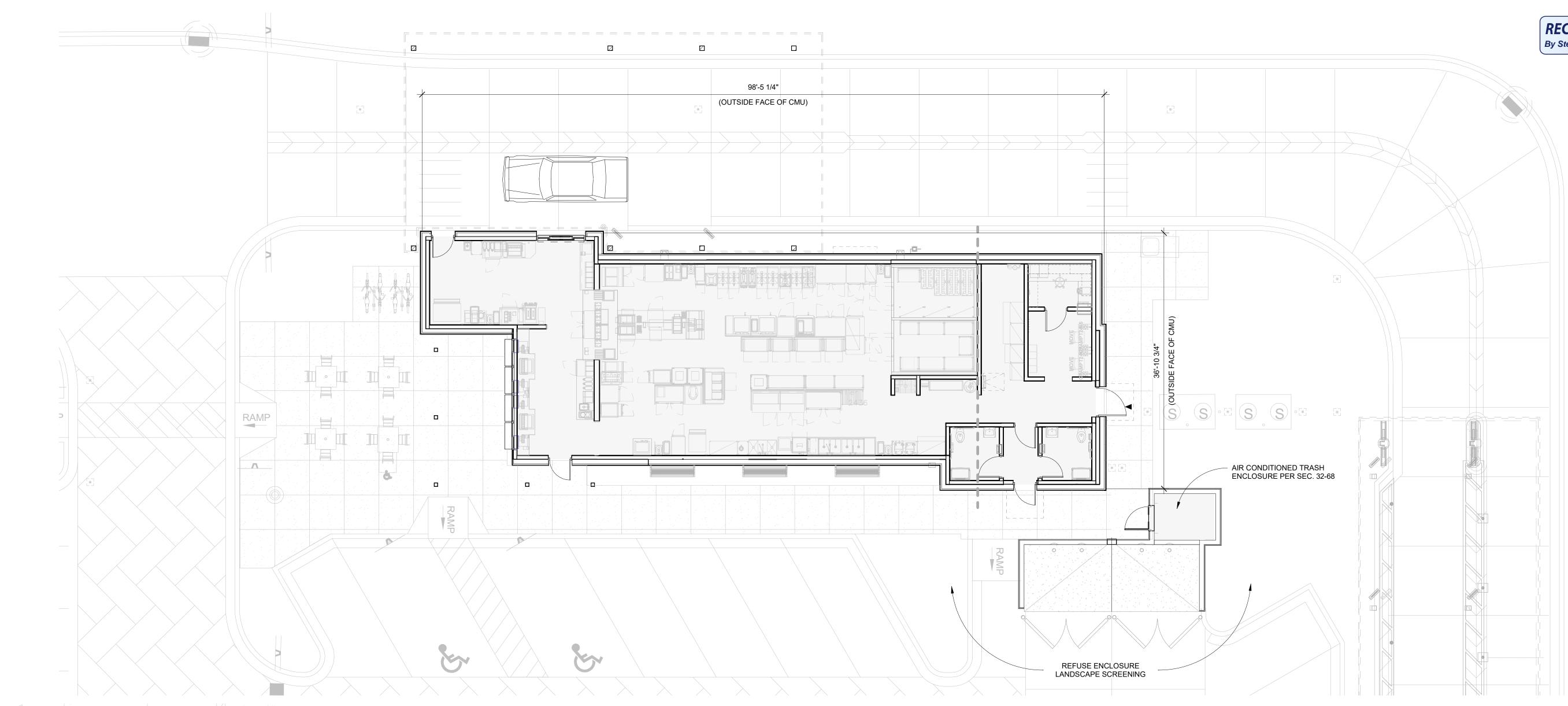
Chick-Fil-A East Doral
Jurisdiction: City of Doral
Folio #: 35-3028-018-0010
Project Location: 8705 NW 35<sup>th</sup> Ln, Doral, FL 33172
Project Description: Redevelopment of existing bank with drive thru to Chick-fil-a fast food restaurant drive-thru only

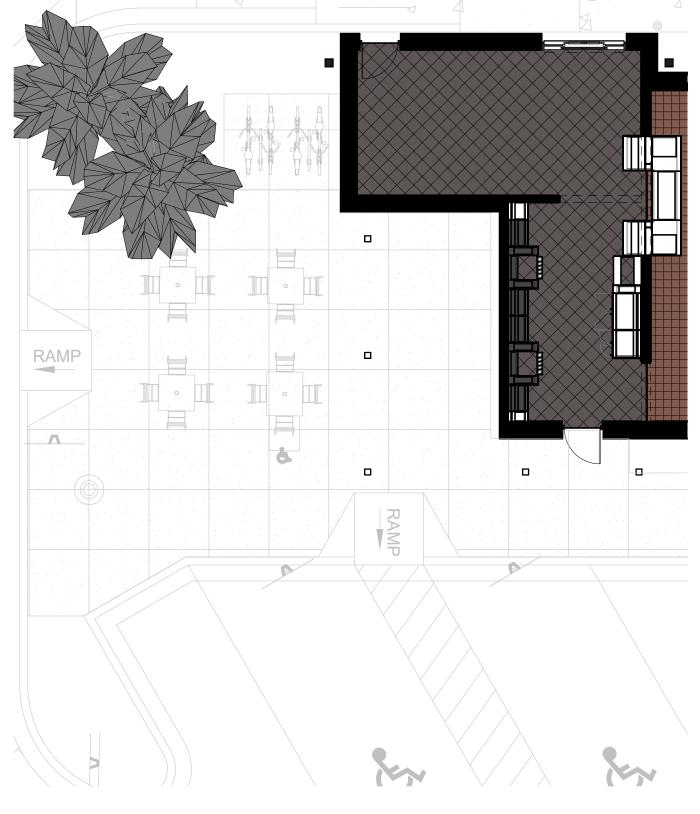
#### Legal Description

LOT 1, IN BLOCK 1, "WESTPOINTE BUSINESS PARK", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 147, PAGE 25, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF LOT 1 BLOCK 1 OF SAID PLAT; THENCE NORTH 00'30'44" WEST ALONG THE WEST LINE OF SAID LOT 252.15 FEET TO THE NORTH LINE OF SAID LOT; THENCE NORTH 89'31'35" EAST 185.00 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF NORTHWES 87<sup>TH</sup> AVENUE; THENCE SOUTH 01'44'50" EAST ALONG SAID RIGHT-OF-WAY 226.53 FEET TO A POINT OF CURVATURE OF A SOUTHWESTERLY CURVE HAVING A CENTRAL ANGLE OF 91'14'06", A RADIUS OF 25.00 FEET AND AN ARC LENGTH OF 39.81 FEET TO A POINT OF TANGENCY LYING ON THE NORTH RIGHT-OF-WAY LINE OF NORTHWEST 35<sup>TH</sup> LANE; THENCE SOUTH 89'29'16" WEST 164.80 FEET ALONG SAID RIGHT-OF-WAY LINE TO THE POINT OF BEGINNING.

## EXHIBIT "B"

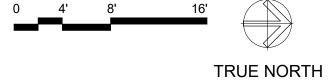




## FLOOR PLAN

	PATIO SEATING SCHEDULE								
Mark	Туре	Count	Manufacturer	Model	Width	Depth	Height	Material	Finish
1	Patio Chair	16	Benchmark Design Group	WENDOVER CHAIR					
2	Patio Table - 4 Top	2	Benchmark Design Group	TAB3055-3636-AAL-WJ-UH-BDT	3'-0"	3'-0"	2'-5 1/4"	Aluminim - Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)
3	Patio Table - 4 Top - ADA	2	Benchmark Design Group	TAB3055-3644-AAL-WJ-UH-BDT	3'-8"	3'-0"	2'-5 1/4"	Aluminim - Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)
5	Patio Umbrella	4	Benchmark Design Group	OCEAN MASTER PARASOL					
6	Trash Receptacle	2	Benchmark Design Group	CFA-AL-2444	2'-0"	2'-0"	3'-11"	Black Powder Coated	Black Powder Coated
8	Bike Rack - Surface Mount	2	Belson Outdoors	ORN-2-SF-P	3'-4"	2 3/8"	2'-9"	Steel	Black Powder Coated

## DINING PATIO PLAN



## A101 FLOOR PLAN

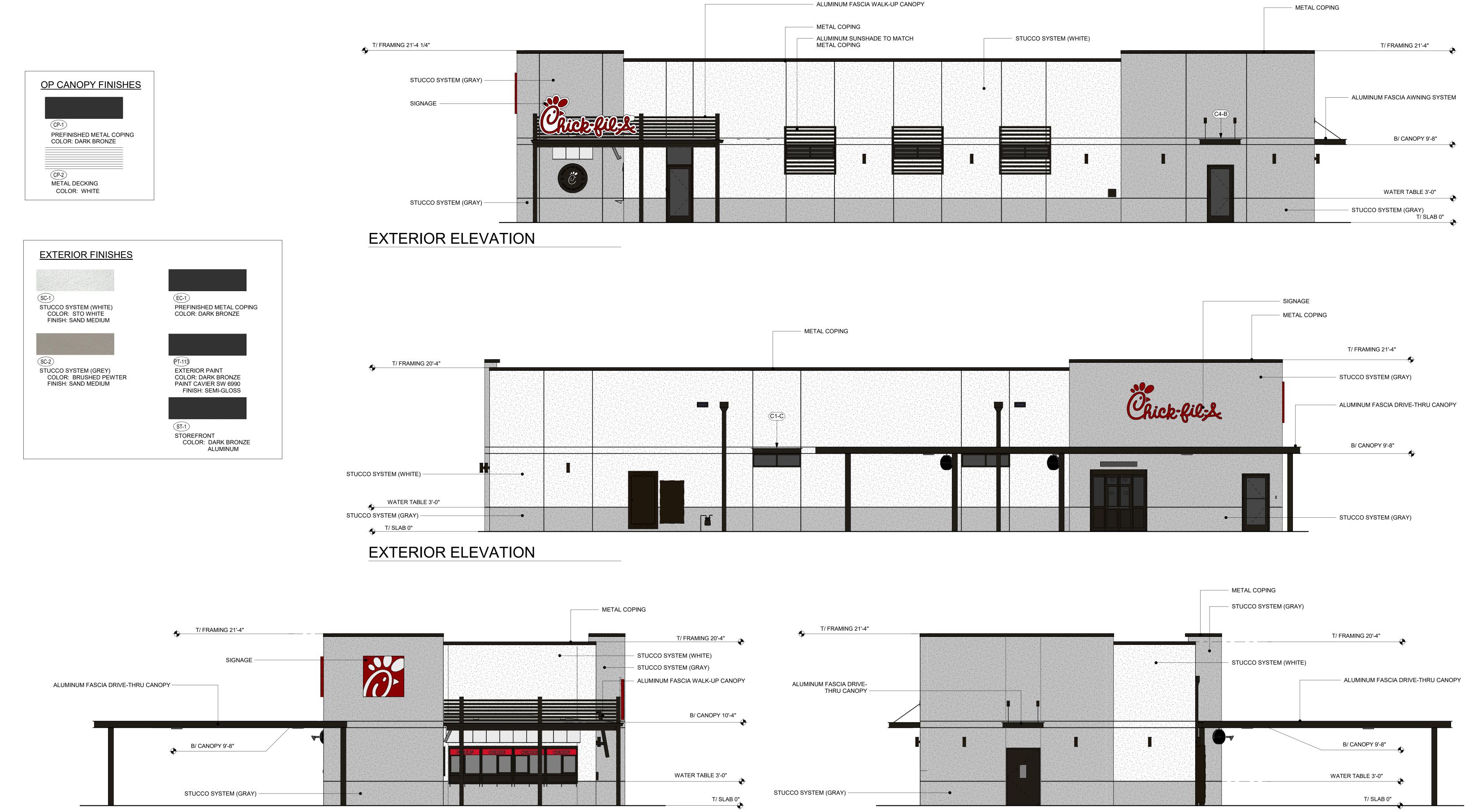




12/14/2022

CHICK-FIL-A EAST DORAL DTO (#05069) P13 DTO RC 10.14.2022





## EXTERIOR ELEVATION

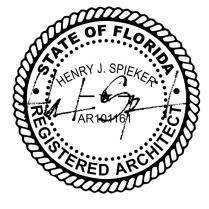
SELSER SCHAEFER ARCHITECTS

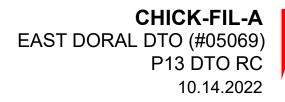
## A102 EXTERIOR ELEVATIONS

## EXTERIOR ELEVATION

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PERSPECTIVE VIEW - REFUSE ENCLOSURE

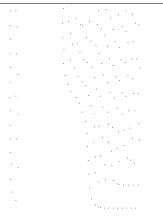


## PERSPECTIVE VIEW - OP CANOPY



PERSPECTIVE VIEW - PATIO







PERSPECTIVE VIEW



PERSPECTIVE VIEW



PERSPECTIVE VIEW









## LEGAL DESCRIPTION (SITE CONTAINS 1.083 ACRES)

LOT 1, IN BLOCK 1, "WESTPOINTE BUSINESS PARK", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 147. PAGE 25. OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY. FLORIDA

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## DATUM NOTE

- 1. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. MIAMI-DADE COUNTY BENCHMARK #515; ELEVATION 7.43 FEET
- 2. ELEVATION DATUM CONVERSION NAVD88 = NGVD29 1.663'

## FLOOD ZONE NOTE

FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; PANEL #12086C0287L; COMMUNITY # 120041; MAP DATE: 09/11/09

## GENERAL NOTES

- CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE APPROVED PLANS AND THE APPROPRIATE STANDARDS AND SPECIFICATIONS ALONG WITH A COPY OF ANY PERMITS AND AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
- 2. CONTRACTOR SHALL MEET OR EXCEED ALL SITE WORK SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS FOR ALL MATERIALS AND CONSTRUCTION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY SITUATION THAT IS NOT IDENTIFIED IN
- THE PLANS OR SPECIFICATIONS IS ENCOUNTERED. NO REVISION SHALL BE MADE TO THESE PLANS WITH OUT THE APPROVAL OF THE ENGINEER OF RECORD
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- 7. ANY REFERENCE TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

## CONTACTS

OWNER/TENENT CHICK-FIL-A 5200 BUFFINGTON ROAD ATLANTA, GA 30349

ENGINEER BOWMAN CONSULTING GROUP 910 SE 17TH ST, SUITE 300 FORT LAUDERDALE, FL 33316 JENNY BAEZ, BRANCH MANAGER 954.314.8466 JBAEZ@BOWMAN.COM

SURVEYOR PULICE LAND SURVEYORS, INC. 5381 NOB HILL ROAD SUNRISE, FL 33351 954.572.1777

WATER MIAMI DADE COUNTY WATER AND SEWER DEPARTMENT 3071 SW 38TH AVE, RM 316 MIAMI, FL 33146 **RODOLFO ULLOA** 786.268.5332

# SITE DEVELOPMENT PLANS FOR EAST DORAL CHICK-FIL-A

FOLIO: 35-3028-018-0010 **STORE #5069** 

8705 NW 35TH LANE DORAL, FLORIDA 33172 SECTION 28, TOWNSHIP 53 S, RANGE 40 E





STORMWATER MIAMI DADE COUNTY DERM 701 NW 1ST COURT MIAMI, FL 33136 CHRISTOPHER CAPORALE 305.372.6715 CHRISTOPHER.CAPORALE@MIAMIDADE.GOV

**TELEPHONE / INTERNET** AT&T FRANCK FONTE 786.804.2985 FF1905@ATT.COM

HEALTH DEPARTMENT DEPT OF BUSINESS AND PROFESSIONAL **REGULATIONS DIVISION OF HOTELS AND** RESTAURANTS 1940 NORTH MONROE STREET TALLAHASSEE, FL 32399-1011 DHR.PLANREVIEW@MYFLORIDALICENSE.COM

SANITARY SEWER MIAMI DADE COUNTY WATER AND SEWER DEPARTMENT 3071 SW 38TH AVE, RM 316 MIAMI, FL 33146 **RODOLFO ULLOA** 786.268.5332

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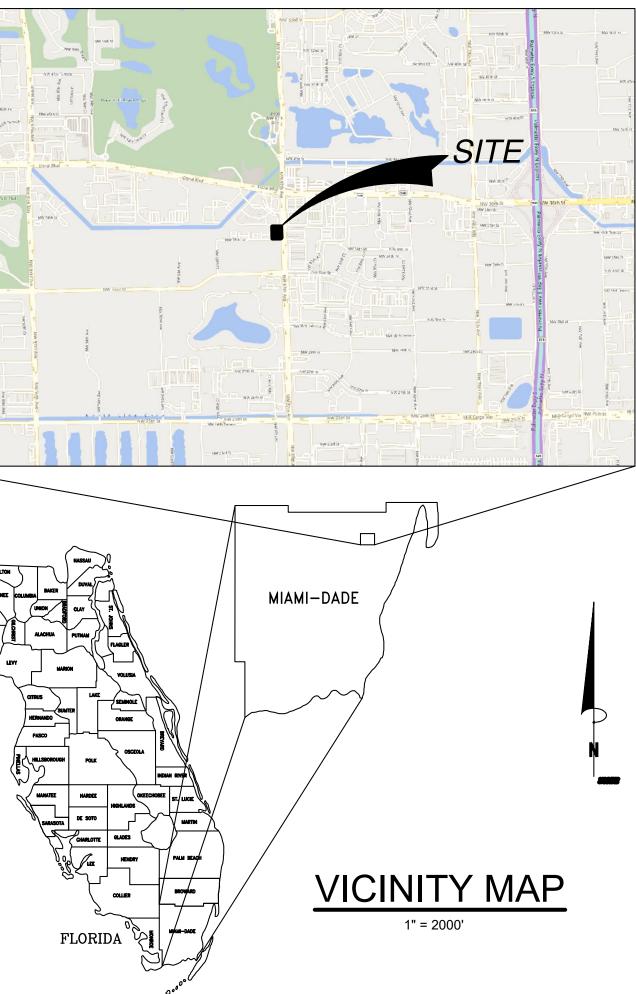
FPL DREW MOORE 305.599.2405 ANDRE.MOORE2@FPL.COM

GAS SERVICE FLORIDA CITY GAS PETER FERRALLS 786.218.1089 PETER.FERALLS@NEXTERAENERGY.COM

**EROSION CONTROL** FLORIDA DEPARTMENT OF ENVIRON PROTECTION 2600 BLAIR STONE ROAD TALLAHASSEE, FL 32399 NPDES STORMWATER PROGRAM 866.336.6312 NPDES-STORMWATER@DEP.STATE

TRAFFIC DEPARTMENT OF PLANNING AND ZO 8401 NW 53 TR. DORAL, FL 33166 STEPHANIE PUGLIA 305.593.6630 EXT.3003 STEPHANIE.PUGLIA@CITYOFDORA

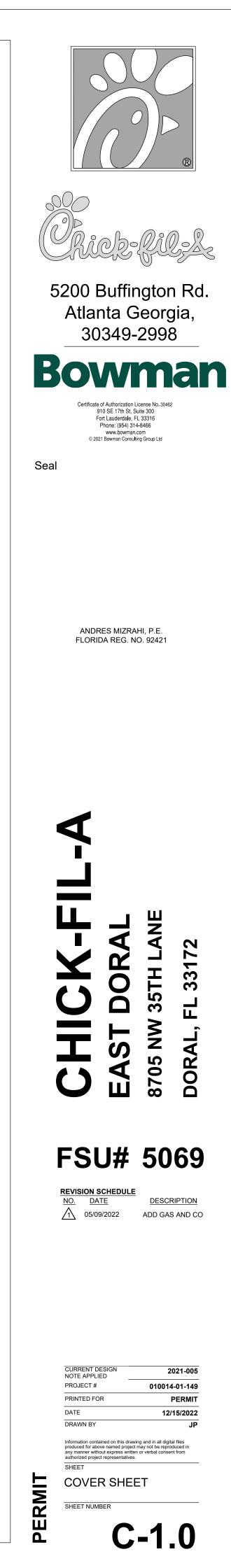


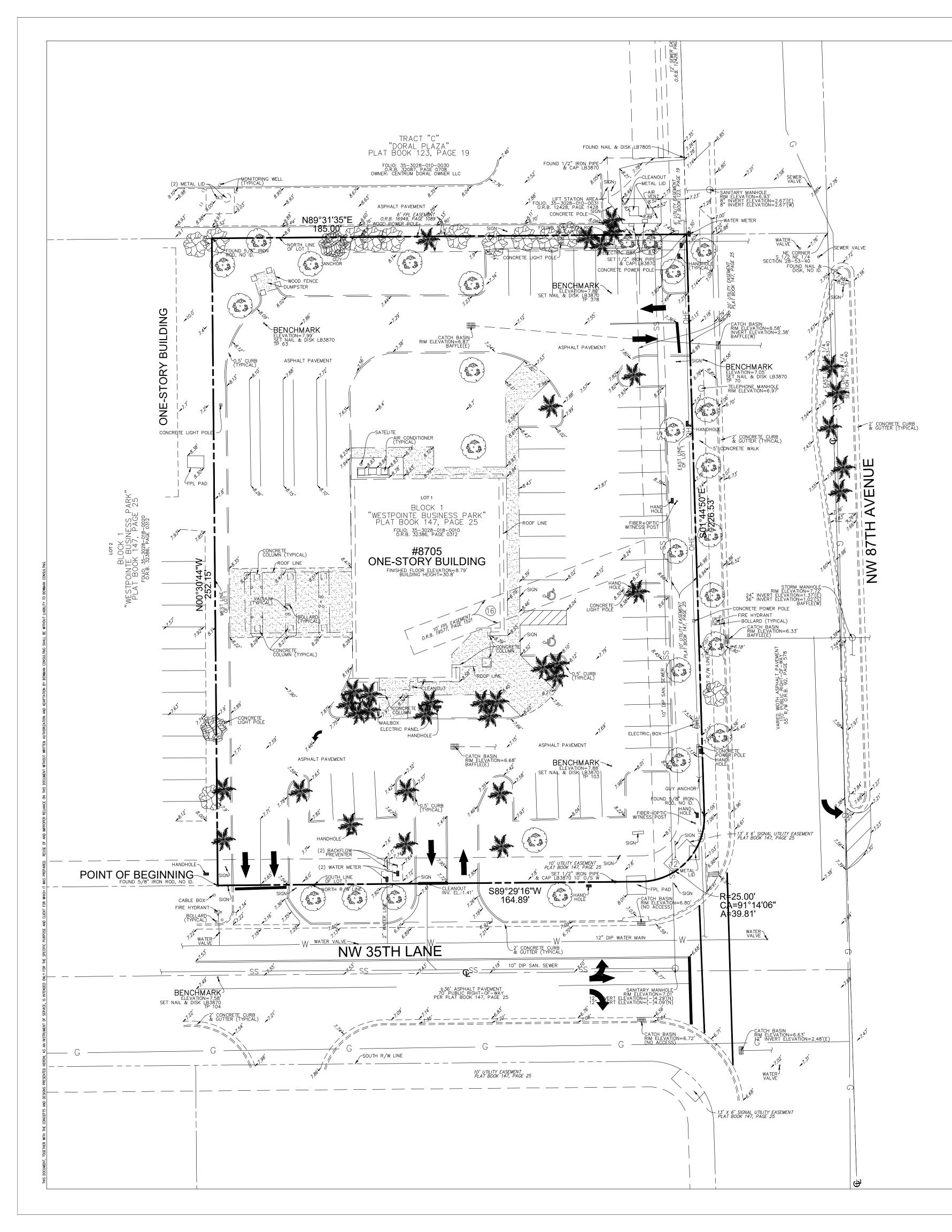


### SHEET INDEX

NMENTAL	SHEET NUMBER	SHEET TITLE
	C-1.0	COVER SHEET
	C-1.1	EXISTING CONDITIONS PLAN
	C-1.2	DEMOLITION PLAN
	C-2.0	SITE PLAN
E.FL.US	C-3.0	GRADING AND DRAINAGE PLAN
L.I L.00	C-3.1	EROSION CONTROL PLAN - PHASE I
	C-3.2	EROSION CONTROL PLAN - PHASE II
ZONING	C-3.3	EROSION CONTROL DETAILS
	C-4.0	CHICK-FIL-A STANDARD DETAILS
	C-4.1	CHICK-FIL-A STANDARD DETAILS
	C-4.2	CHICK-FIL-A STANDARD DETAILS
L.COM	C-5.0	SITE AND DRAINAGE DETAILS
	C-5.1	SITE AND DRAINAGE DETAILS
	C-5.2	SITE AND DRAINAGE DETAILS
	C-5.3	SITE AND DRAINAGE DETAILS
	PS-1.0	UTILITY PLAN
	PS-1.1	UTILITY DETAILS
	PS-1.2	UTILITY DETAILS

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PROPERTY LINE	
EX. CONCRETE SIDEWALK	
EX. CONCRETE D CURB	
EX. EDGE OF SIDEWALK	
EX. POWER POLE	С
EX. SIGN	
EX. STORM TYPE C INLET	
EX. STORM TYPE 9 CURB INLET	
EX. STORM MANHOLE	D
EX. FIRE HYDRANT	2
EX. SANITARY MANHOLE	\$
OVERHEAD LINES	OHE
WATER LINE	w
SEWER LINE	SS

### FLOOD ZONE NOTE

FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; PANEL #12086C0287L; COMMUNITY # 120041; MAP DATE: 09/11/09

### DATUM NOTE

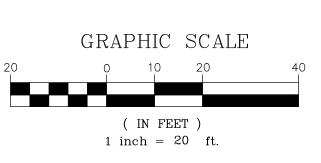
1. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. MIAMI-DADE COUNTY BENCHMARK #515; ELEVATION 7.43 FEET

2. ELEVATION DATUM CONVERSION NAVD88 = NGVD29 - 1.663'

#### SOIL CLASSIFICATION

THE SOIL SURVEY OF MIAMI-DADE COUNTY, FLORIDA AS PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA), SOIL CONSERVATION SERVICE (SCS; LATER RENAMED THE NATURAL RESOURCE CONSERVATION SERVICE NRCS) IDENTIFIES THE SOIL TYPE AT THE SUBJECT SITE AS 7.8% (15) URBAN LAND, 0 TO 2% SLOPES AND 92.2% (34) HALLANDALE FINE SAND-URBAN LAND COMPLEX, 0 TO 2% SLOPES.







5200 Buffington Rd. Atlanta Georgia, 30349-2998



Certificate of Authorization License No. 30462 910 SE 17th St, Suite 300 Fort Lauderdale, FL 33316 Phone: (954) 314-8466 www.bowman.com © 2021 Bowman Consulting Group Ltd

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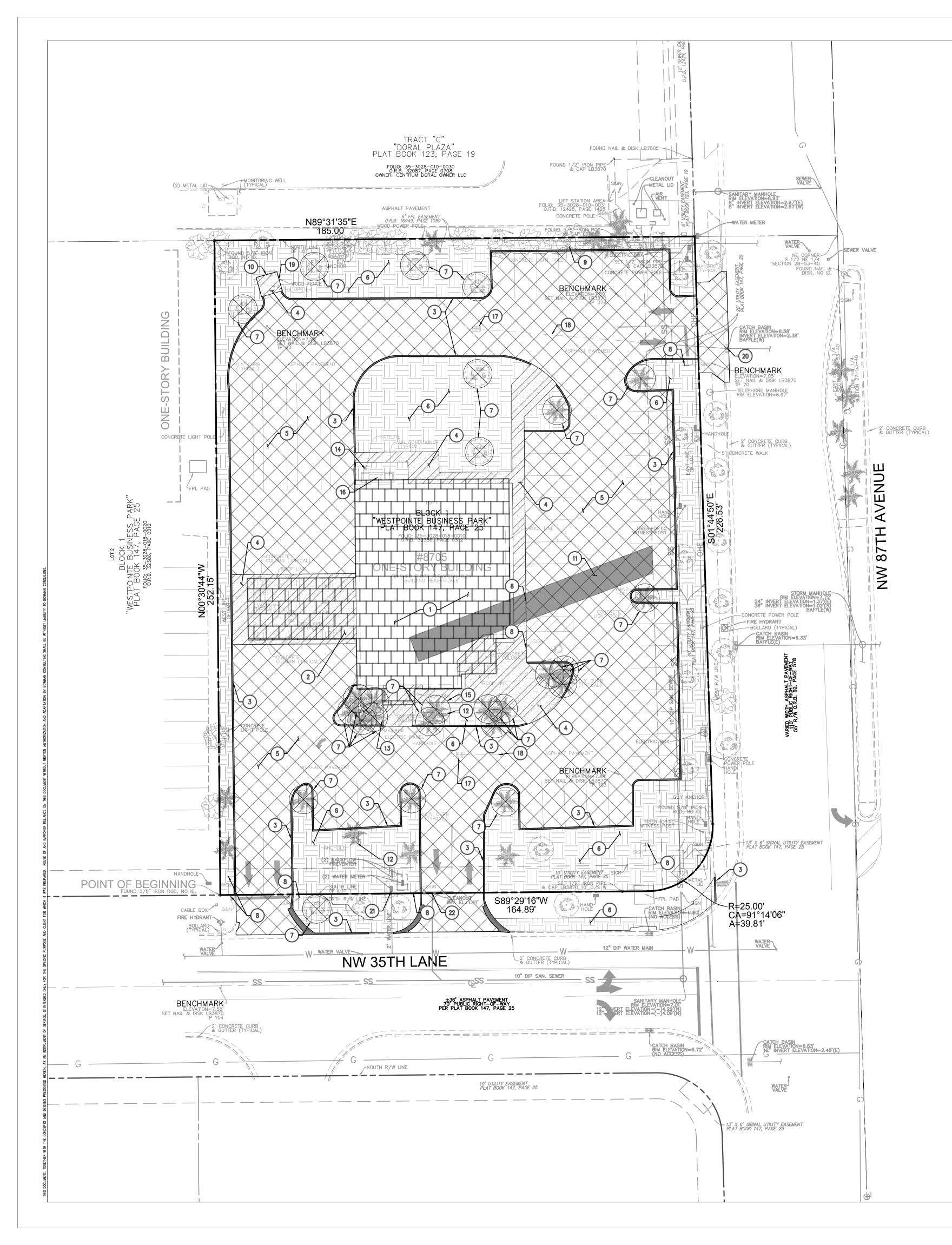
CURRENT DESIGN NOTE APPLIED	2021-005
PROJECT #	010014-01-149
PRINTED FOR	PERMIT
DATE	12/15/2022
DRAWN BY	JP

EXISTING CONDITIONS PLAN

SHEET NUMBE

PERMIT

**C-1.1** 



#### LEGEND ROPERTY LINE $\bigtriangledown$ DEMO ASPHALT DRIVE X. CONCRETE SIDEWALK : 4 X. CONCRETE D CURB DEMO CONCRETE EX. EDGE OF SIDEWALK EX. POWER POLE G DEMO OPEN SPACE X. SIGN 0 EX. STORM TYPE C INLET DEMO BUILDING EX. STORM TYPE 9 CURB INLET \_\_\_\_\_ LOD \_\_\_\_\_ EX. STORM MANHOLE D LIMIT OF DISTURBANCE EX. FIRE HYDRANT Ω DEMO CURB EX. SANITARY MANHOLE \$ OVERHEAD LINES \_\_\_\_\_ OHE \_\_\_\_\_ WATER LINE SEWER LINE \_\_\_\_\_\_ \$\$ \_\_\_\_\_

### DEMOLITION NOTES

### (1) BUILDING TO BE REMOVED

- (2) OVERHEAD CANOPY TO BE REMOVED
- (3) CONCRETE CURB TO BE REMOVED
- CONCRETE PAVEMENT / SIDEWALK TO BE REMOVED
- (5) ASPHALT PAVEMENT TO BE REMOVED
- OPEN SPACE TO BE CLEARED AND GRUBBED
- (7) TREE TO BE REMOVED
- 8 SIGN TO BE REMOVED
- (9) CONCRETE POLE TO BE REMOVED
- (10) DUMPSTER TO BE REMOVED
- 11 PORTION OF FPL EASEMENT TO BE VACATED

#### (12) HANDHOLE TO BE REMOVED

- (13) MAILBOX TO BE REMOVED
- (14) SATELITE TO BE REMOVED
- (15) ELECTRIC PANEL TO BE REMOVED
- (16) AIR CONDITIONING UNIT TO BE REMOVED
- (17) STORM INLET TO BE REMOVED
- (18) STORM PIPE TO BE REMOVED

IN R.O.W. TO REMAIN

- (19) WOOD FENCE TO BE REMOVED
- 20 CATCH BASIN TOP TO BE REPLACED WITH P-5 TOP
- (21) CONTRACTOR TO DEMO ALL WATER SERVICES UP TO THE RPZ. METERS AND RPZ TO REMAIN
- (22) CONTRACTOR TO DEMO ALL SANITARY SERVICE (22) UP TO THE CLEANOUT. CLEANOUT AND SERVICE

#### GENERAL DEMOLITION NOTES

- 1. THE LOCATION OF THE UTILITIES SHOWN HAVE BEEN DETERMINED BY INFORMATION GATHERED AND SHALL NOT BE USED AS EXACT. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO VERIFY EXACT LOCATIONS PRIOR TO DEMOLITION.
- 2. THE CONTRACTOR SHALL COORDINATE WITH THE PROPER UTILITY COMPANIES FOR REMOVAL AND RELOCATIONS OF THE RESPECTIVE UTILITY. THE CONTRACTOR SHALL VERIFY ANY WORK THAT MAY BE DONE BY THE UTILITY COMPANIES.
- 3. CONTRACTOR SHALL PROTECT THE PUBLIC WITH BEST MANAGEMENT PRACTICES.
- 4. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL STRUCTURES, PAVEMENT, AND VEGETATION THAT IS NOT TO BE DISTURBED AND IS RESPONSIBLE FOR ANY DAMAGES TO THEM.
- 5. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL MATERIALS RESULTING FROM THE WORK, ACCORDING TO GOVERNING AUTHORITIES AND SHALL OBTAIN THE PROPER PERMITS REQUIRED FOR DISPOSAL AND DEMOLITION.
- 6. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO DEMOLITION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICES TO ANY NECESSARY UTILITIES DURING CONSTRUCTION.
- 8. FOR ALL ITEMS NOTED TO BE REMOVED, REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALSO REMOVE ALL UNDERGROUND ELEMENTS AS WELL INCLUDING, BUT NOT LIMITED TO; FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, PIPES, TANKS, ETC.
- 9. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK MEETING THE REQUIREMENTS FOR FILL OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS
- 10. ASBESTOS AND ANY OTHER HAZARDOUS MATERIAL SHALL BE PROPERLY PERMITTED AND REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL SECURE ALL PERMITS FOR DEMOLITION AND REMOVAL OF MATERIALS FROM THE SITE.
- 11. LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE PLANS. ANY DAMAGE TO ANY SURROUNDING AREAS SHALL BE REPAIRED / REPLACED AT THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROTECT ADJACENT STRUCTURES, PAVEMENT, UTILITIES, LANDSCAPE, ETC. FROM DAMAGE DURING CONSTRUCTION.
- 12. CONTRACTOR SHALL ENSURE THAT SERVICES TO ALL UTILITIES TO BE REMOVED HAS BEEN DISCONTINUED AND SHUT OFF. ALL UTILITY LINES SHALL BE CAPPED PER UTILITY COMPANY STANDARDS.
- 13. PERIMETER TREES & LANDSCAPING TO REMAIN WHEREVER POSSIBLE.

#### LANDLORD RESPONSIBILITIES

- 1. INSTALLATION OF ALL UTILITIES TO A POINT WITHIN FIVE FEET INSIDE OF THE PROPERTY LINE (WHICH UTILITIES MUST BE FULLY FUNCTIONAL AND IN CAPACITIES SUFFICIENT FOR CFA'S USE)
- 2. COMPLETION OF ALL NECESSARY AND APPROPRIATE ACCESS DRIVES AND CURB CUTS
- 3. DEMOLITION OF EXISTING IMPROVEMENTS AND REMOVAL OF ALL DEBRIS INCLUDING ANY UNDERGROUND FOUNDATIONS OR FOOTINGS



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FSU# 5069

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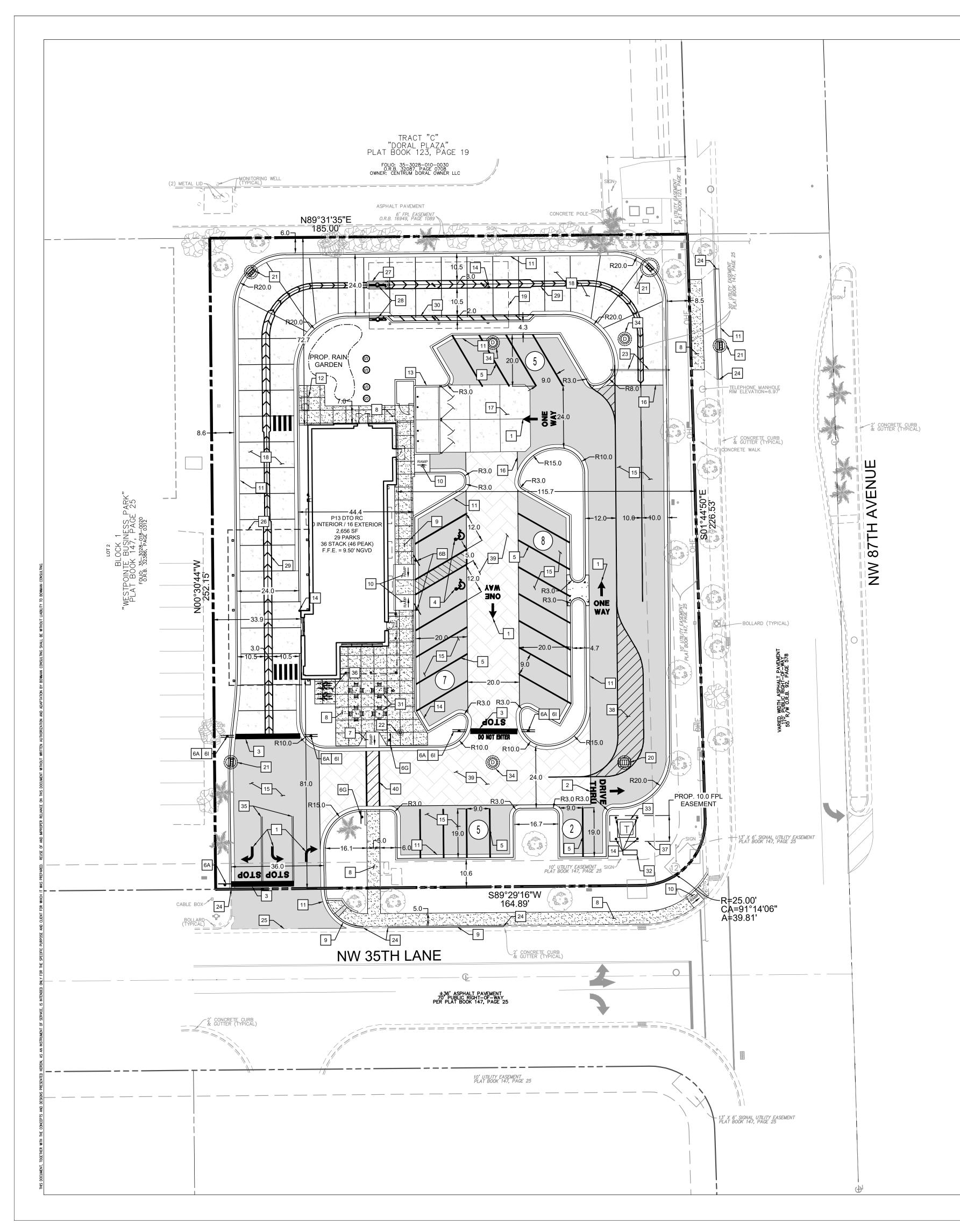
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**DEMOLITION PLAN** 



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#### LEGEND PROP. ASPHALT DRIVE PROPERTY LINE EX. CONCRETE SIDEWALK PROP. CONC. SIDEWALK 4 PROP. CONC. PAVEMENT EX. CONCRETE D CURB \_\_\_\_\_ \_\_\_\_\_ EX. CONCRETE F CURB PROP. TYPE "F" CURB -----EX. EDGE OF SIDEWALK \_\_\_\_\_ PROP. CLEARANCE BAR •------G EX. POWER POLE PROP. PARKING STRIPE Ğ. X. SIGN 0 PROP. HANDICAP MARKING EX. STORM TYPE C INLET \_\_\_\_ PROP. SITE SIGNAGE EX. STORM TYPE 9 CURB INLET → PROP. DIRECTIONAL ARROW $\bigcirc$ EX. STORM MANHOLE PROP. BOLLARD ٠ EX. FIRE HYDRANT **A** 9 EX. SANITARY MANHOLE 8 PROP. PARKING COUNT PROP. CATCH BASIN Ħ PROP. CURB INLET D PROP. MANHOLE s s PROP. GREASE TRAP Τ PROP. TRANSFORMER

	SITE SI	JMMARY			
JURISDICTION		CITY OF DORAL			
ZONING		INDUSTRIAL COM	IMERCIAL		
OVERLAY		DOWNTOWN MIX (DMU)	ED OPORTUNIT		
FLU		INDUSTRIAL			
USE		DRIVE THRU RES	TAURANT		
TYPE OF CONST	RUCTION	COMMERCIAL			
PARCEL ID		35-3028-018-0010			
	L	.OT			
SIZE		47,179 SF (1.08 A	C)		
	BUI	LDING			
SIZE		2,566 SF			
HEIGHT					
CONSTRUCTION	TYPE				
F.A.R.		0.06	0.06		
	PAF	RKING			
20 SPACES - 9' X 20'           STALL SIZE         5 SPACES - 9' X 19'					
		LCULATIONS			
USE		RATIO	REQUIRED		
GROSS AREA	2,566 SF	1 PARKING SPACE FOR EVERY 250 SF OF GROSS AREA	11 SPACES		
STANDARD PARK	ING PROVIDED		25		
HANDICAP PARKI	NG REQUIRED		2		
HANDICAP PARKI	NG PROVIDED		2		
TOTAL PARKING	27				

PROP. BUILDING AREA					
PROP. PAVEMENT AREA					
E	BUILDING				
SETBACK	REQUI				
RONT (EAST)					
EAR (WEST)					
IDE (NORTH)					
IDE (SOUTH)					
L	ANDSCAF				
BUFFER	REQUI				
RONT (EAST)					
EAR (WEST)					
IDE (NORTH)					
IDE (SOUTH)					
	•				

TOTAL AFFECTED AREA

PROP. PERVIOUS AREA

PROP. IMPERVIOUS AREA

### GENERAL NOTE

### SITE NOTES

1	CONST. DIRECTIONAL ARROW (TYP.)	18
2	CONST. DRIVE-THRU GRAPHICS	19
3	CONST. 24" STOP LINE GRAPHIC	20
4	CONST. HANDICAP STALL WITH PAINTED ACCESSIBILITY SYMBOL	21
5	CONST. STANDARD PARKING STALL	22
6	DIRECTIONAL SIGNAGE (REFER TO SIGN PACKAGE FOR MORE DETAILS)	23
	6A STOP SIGN (R1-1)	24
	6B BOLLARD MOUNTEDHANDICAP SIGN	25
	6C BOLLARD MOUNTED CURBSIDE DELIVERY (NOT USED)	26
	6D NO LEFT TURN SIGN (NOT USED)	27
	6E ONE WAY SIGN (NOT USED)	28
	6F RIGHT TURN ONLY (NOT USED)	
	6G PEDESTRIANS CROSSING	29
		30
	6I DO NOT ENTER SIGN (R5-1)	31
7	CONST. ACCESSIBLE RAMP WITH FLARED SIDES	32
8	CONST. TYPICAL CONCRETE SIDEWALK	33
9	CONST. SIDEWALK W/ CURB AND GUTTER	34
10	CONST. 6' SIDEWALK RAMP @ 1:12 MAXIMUM SLOPE	35
11	CONST. CURB AND GUTTER (TYPE F)	36
12	CONST. CASH STATION	37
13	CONST. REFUSE ENCLOSURE WITH STORAGE SHED	38
14	CONST. CONCRETE BOLLARD	39
15	CONST. ASPHALT PAVEMENT	40
16	CONST. PAVEMENT EDGE	
17	CONST. CONCRETE APRON AT REFUSE ENCLOSURE	

19 CONST. ORDER CANOPY
20 CONST. TYPE C INLET
21 EXIST. DRAINAGE STRUCT
22 CONST. 50' FLAG POLE (SE
23 CONST. CLEARANCE BAR
24 CONNECT TO EXISTING CU
25 CONNECT TO EXISTING ED
26 CONST. MEAL ORDER DEL
27 CONST. DRIVE-THRU ORDE
28 CONST. MENU BOARD
29 CONST. SOLID 4" YELLOW WIDE STRIPES @ 3' O.C., Y WITH ANTI-SLIP ADHESIVE
30 CONST. SOLID 4" YELLOW 4" WIDE STRIPES @ 3' O.C.
31 PROP. PATIO FURNITURE
32 CONST. MONUMENT SIGN
33 CONST. FPL TRANSFORME
34 CONST. STORM MANHOLE
35 CONST. 6" DOUBLE YELLO
36 CONST. BIKE RACK
37 CONST. 10' FPL EASEMENT
38 CONST. 4" YELLOW STRIPI
39 CONST. STAMPED CONCRE
40 CONST. CROSSWALK





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SHEET NUMBER

CHICK-FIL-A SITE CALCULATIONS					
AREA	SF	ACRES	%		
FECTED AREA	47,179	1.08	100		
RVIOUS AREA	12,572	0.29	26.6		
PERVIOUS AREA	34,607	0.79	73.4		
. BUILDING AREA	2,566	0.06	5.4		
. PAVEMENT AREA	32,041	0.74	67.9		

S SETBACKS				
IRED (FT)	PROVIDED (FT)			
15	115.7			
5	33.9			
5	72.7			
20	81.0			

PEBUFFERS				
IRED (FT)	PROVIDED (FT)			
0	8.5			
0	8.6			
0	6.0			
0	10.6			

### 1. CONTRACTOR TO PROVIDE CONCRETE MATERIAL WITH SOLAR REFLECTIVE INDEX OF 28 OR GREATER.

CONST. CONCRETE PAVING DRIVE-THRU LANE

URE

SEE SIGN PACKAGE)

DGE OF PAVEMENT

LIVERY CANOPY

DER POINT ISLAND

W STRIPING ON ENDS W/ 4" , YELLOW REFLECTIVE PAINT

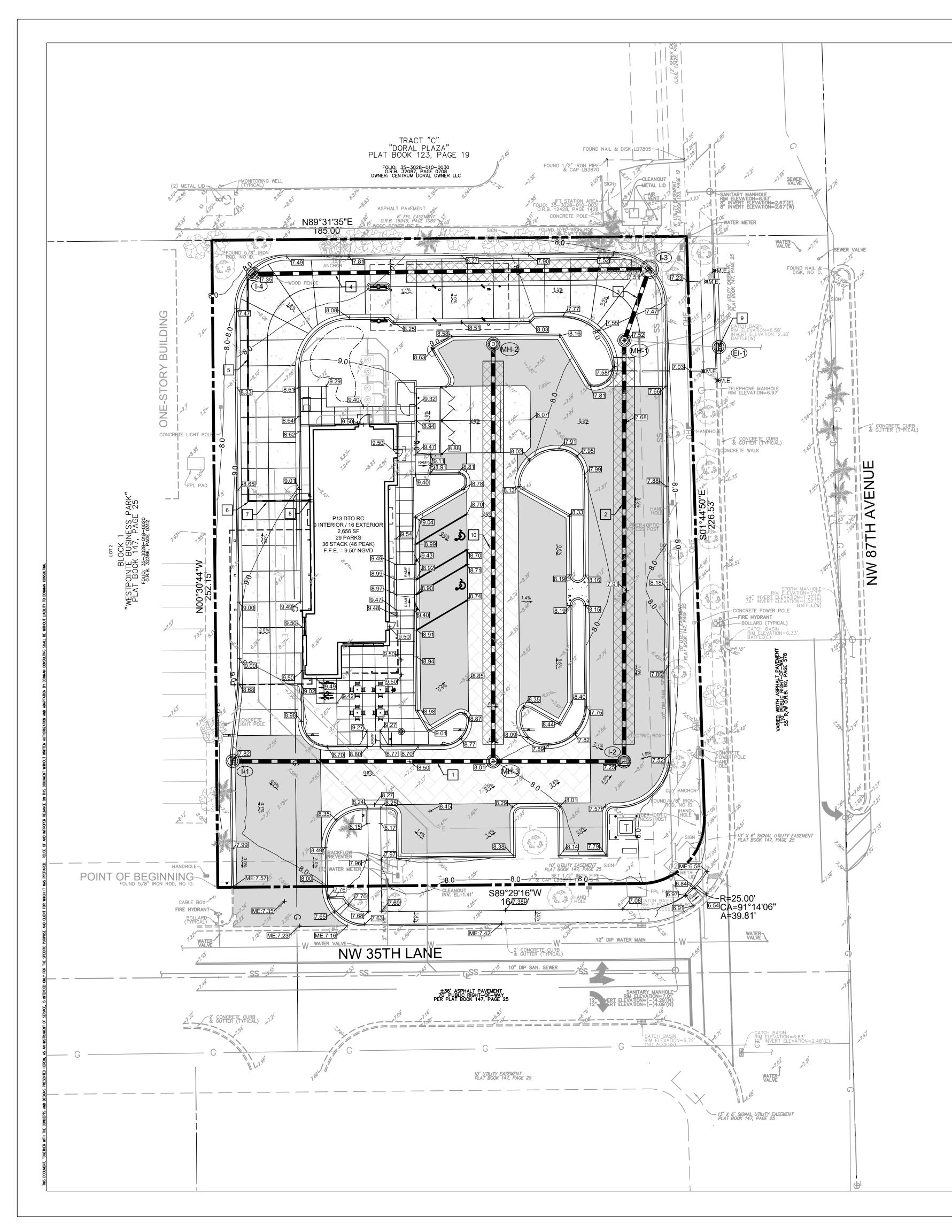
V STRIPING ON ENDS W/

OW DIVIDER

PING @ 2" O.C.

RETE PAVEMENT

PERMIT



		Р	ROP	OSE	) DRA	AINAG	GE ST	RUCI	<b>URE</b>	TABL	.E	
STRC. NUMBER	BOTTOM STRC. TYPE	TOP TYPE	RIM	N INV.	S INV.	E INV.	W INV.	NE INV.	SW INV.	NW INV.	SE INV.	REMARKS
I-1	4' DIA. TYPE P	TYPE 9 INLET	7.82				4.24					4' DIA. TYPE P BOTTOM W/ TYPE 9 TOP
I-2	4' DIA. TYPE P	TYPE "C" INLET	7.25	2.75		2.75						4' DIA. TYPE P BOTTOM W/ TYPE C TOP
I-3	6' DIA. TYPE P	TYPE 9 INLET	7.35		2.75		2.75					6' DIA. TYPE P BOTTOM W/ TYPE 9 TOP
1-4	4' DIA. TYPE P	TYPE 9 INLET	7.34		4.13	2.75						4' DIA. TYPE P BOTTOM W/ TYPE 9 TOF
MH-1	4' DIA. TYPE P	MANHOLE	7.52	2.75	2.75	2.75*						4' DIA. TYPE P BOTTOM W/ MANHOLE TO CONNECT TO EXISTING 12" DRAINAGE PIF WEIR EL. = 6.50' (8" ORIFICE)
MH-2	4' DIA. TYPE P	MANHOLE	8.26		2.75							4' DIA. TYPE P BOTTOM W/ MANHOLE TO
MH-3	4' DIA. TYPE P	MANHOLE	8.01	2.75		2.75	2.75					4' DIA. TYPE P BOTTOM W/ MANHOLE TO
EI-1	EXISTING	TYPE 5	6.58			2.38	2.38					CONTRACTOR REPLACE CATCH BASIN TO TYPE 5 TOP

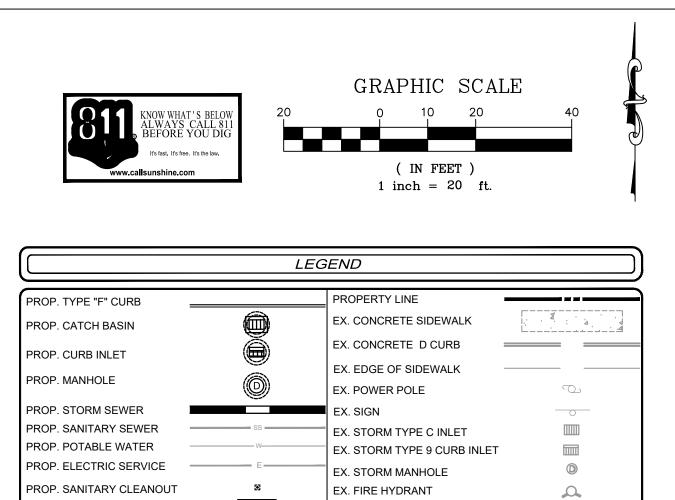
PROP. GREASE TRAP

PROP. TRANSFORMER

GRADING AND DRAINAGE NOTES

1 CONST. 147 LF OF 18" HDPE @ 1.0% SLOPE 7 CONST. 24 LF OF 6" PVC @ 1.0% SLOPE 2CONST. 159 LF OF 18" HDPE @ 0% SLOPE<br/>WITH 151 LF OF EXFILTRATION TRENCH8CONNECT TO ROOF DOWNSPOUTS<br/>INV. EL. = 5.24' 3 CONST. 25 LF OF 18" HDPE @ 0% SLOPE 4 CONST. 150 LF OF 18" HDPE @ 0% SLOPE WITH 90 LF OF EXFILTRATION TRENCH 5 CONST. 87 LF OF 6" PVC @ 1.0% MINIMUM SLOPE

6 CONST. CLEANOUT WITH INV. ELEV. = 5.0'



EX. SANITARY MANHOLE

OVERHEAD LINES

WATER LINE SEWER LINE \$

\_\_\_\_\_ S\_\_\_\_\_ S\_\_\_\_\_

\_\_\_\_\_ OHE\_\_\_\_

\$ T

9 CONTRACTOR TO REPLACE STRUCTURE 9 TOP WITH CURB INLET TOP

DATUM NOTE 1. ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. MIAMI-DADE COUNTY BENCHMARK #515 -ELEVATION: 7.43 FEET.



This item has been digitally signed and sealed by Andres Mizrahi, P.E. on the date adjacent to this seal CENSA No. 92421 Printed copies of this document are not considered 72. STATE OF sealed and the signature must be verified on any electronic copies. 01/12/2023

ANDRES MIZRAHI, P.E. FLORIDA REG. NO. 92421

ANE 33172 **35TH**  $\Box$  $\square$ NN S 8705 DOR 4 Ш

## FSU# 5069

**REVISION SCHEDULE**NO.DATE 05/09/2022 ADD GAS AND CO

DESCRIPTION

CURRENT DESIGN	2021-005
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Grading and Drainage Plan SHEET NUMB



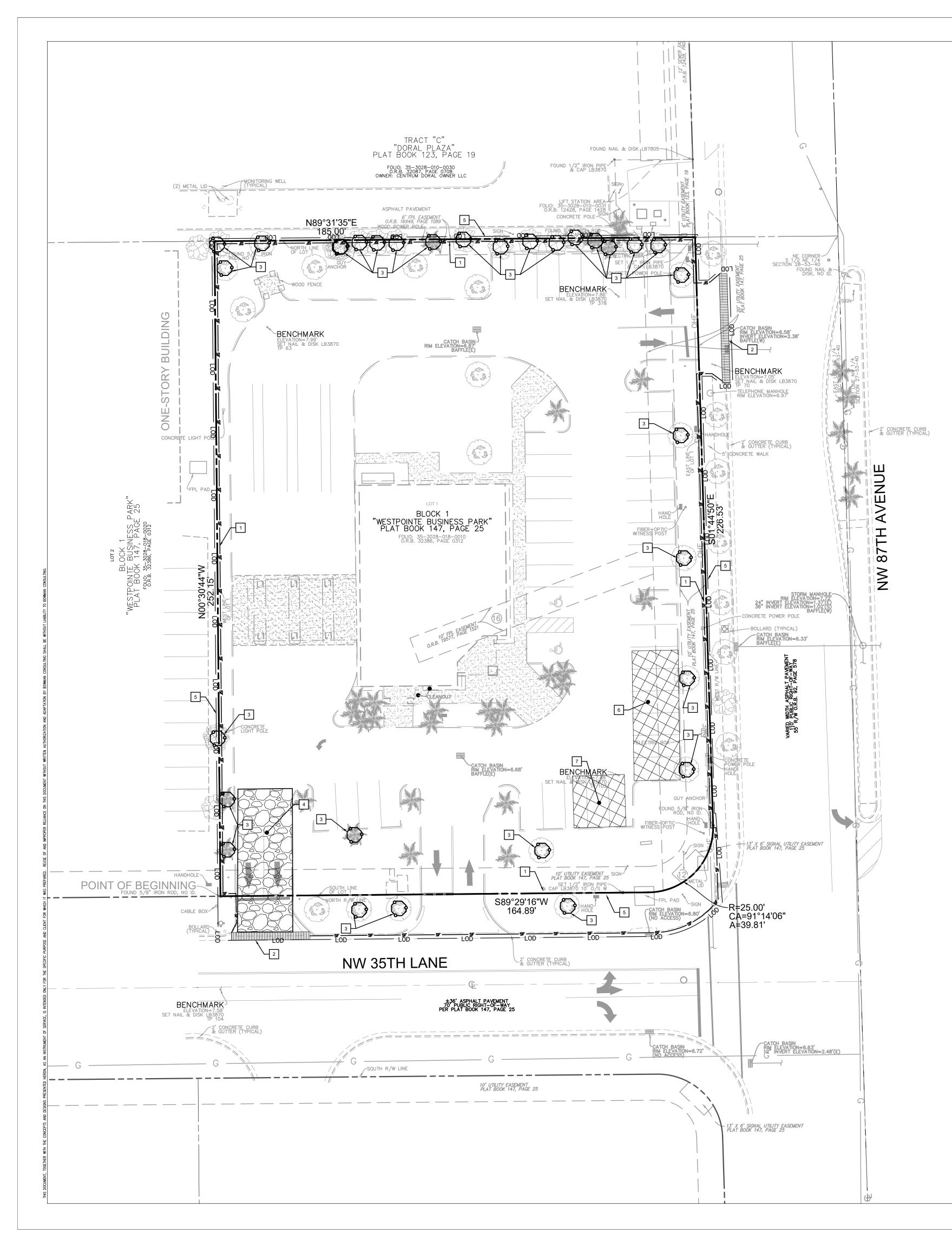
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### FLOOD ZONE NOTE

FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; PANEL #12086C0287L; COMMUNITY #120041; MAP DATE: 9/11/09.

10 CONST. 158 LF OF 18" HDPE @ 0% SLOPE WITH 152 LF OF EXFILTRATION TRENCH



	LI	EGEND	
LIMIT OF DISTURBANCE PROP. SILT DIKE ON PAVEMENT PROP. SILT FENCE TEMPORARY PARKING AND STAGING AREAS PROP. TREE BARRIER		PROPERTY LINE EX. CONCRETE SIDEWALK EX. CONCRETE D CURB EX. EDGE OF SIDEWALK EX. POWER POLE EX. SIGN EX. STORM TYPE C INLET EX. STORM TYPE 9 CURB INLET EX. STORM MANHOLE EX. FIRE HYDRANT EX. SANITARY MANHOLE OVERHEAD LINES WATER LINE SEWER LINE	

#### EROSION CONTROL NOTES

1 CONST. SILT FENCE  $\begin{pmatrix} 1 \\ \hline C - 3.3 \end{pmatrix}$ 

2 CONST. SILT DIKE ON PAVEMENT  $\begin{pmatrix} 2 \\ C-3.3 \end{pmatrix}$ 

3 CONST. TREE BARRIER  $\frac{3}{C-3.3}$ 

4 CONST. STABILIZED CONSTRUCTION EXIT  $\begin{pmatrix} 4\\ C-3.3 \end{pmatrix}$ 

5 LIMIT OF DISTURBANCE

6 TEMPORARY PARKING AREA

7 TEMPORARY STORAGE AREA

GENERAL EROSION CONTROL NOTES

- . CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED AND THAT CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 2. PERMIT(S) FOR ANY CONSTRUCTION ACTIVITY MUST BE MAINTAINED ON SITE AT ALL TIMES.
- 3. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE FDEP GENERIC PERMIT.
- 4. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- 5. ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 7. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. 8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE
- PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. 9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY STOPPED FOR AT LEAST 7 DAYS, SHALL BE TEMPORARILY SEEDED.
- 11. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SODDED/LANDSCAPED PER PLANS. THESE AREA SHALL BE SODDED/LANDSCAPED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- 12. IF THE ACTION OF VEHICLES TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- 13. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 14. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE. 15. ON-SITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT
- PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH FDEP GENERIC PERMIT REQUIREMENTS.
- 16. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. 17. DUE TO CONSTRUCTION ACTIVITIES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT
- CONTROL MEASURES TO PREVENT EROSION AND SEDIMENTATION.
- 18. CONTRACTOR SHALL DESIGNATE/IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE. 19. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, NO UNNECESSARY OR IMPROPERLY
- SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- 20. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS PALM BEACH COUNTY IS NOTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 21. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. (ONCE CONTRACTOR IS SELECTED, A QUALIFIED FOREMAN/SUPERVISOR WILL BE DESIGNATED AND AVAILABLE AT THE PRE-CONSTRUCTION MEETING)
- 22. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE COUNTY'S INSPECTOR.

#### CONSTRUCTION SEQUENCE

- CONDUCT PRE-CONSTRUCTION MEETING WITH THE COUNTY TO DISCUSS EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION PHASING. INSTALL AND POST SWPPP AND SITE COMPLIANCE SIGNAGE PUBLICLY VISIBLE.
- INSTALL INLET PROTECTION, SILT DIKES, AND SILT FENCE ON THE SITE AS SHOWN. INSTALL CONSTRUCTION FENCES AND TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL
- DEVICES. PREPARE TEMPORARY PARKING AND STORAGE AREAS. DEMO EXISTING STRUCTURES, PAVEMENT, AND SPECIFIED UTILITIES.
- BEGIN GRADING THE SITE. BEGIN CONSTRUCTION OF UTILITIES.
- BEGIN SUBGRADE PREPARATION AND CONSTRUCTION OF STRUCTURES. 0. BEGIN INSTALLATION OF CURB, GUTTER, AND PAVING.
- 11. COMPLETE PERMANENT STABILIZATION ON AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED. 12. COMPLETE FINAL GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL
- AREAS 13. OBTAIN CONCURRENCE FROM THE OWNER AND THE COUNTY THAT THE SITE HAS BEEN
- FULLY STABILIZED. 14. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. 15. STABILIZE ALL AREAS DISTURBED BY BMP REMOVAL.
- CONTRACTOR MAY COMPLETE CONSTRUCTION RELATED ACTIVITIES CONCURRENTLY ONLY IF

ALL PRECEDING BMPS HAVE BEEN COMPLETELY INSTALLED. THE ACTUAL SCHEDULE FOR IMPLEMENTING POLLUTANT CONTROL MEASURES WILL BE

DETERMINED BY THE PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE GENERAL 7 CONTRACTOR ON THESE PLANS.

- FOLLOWING:
- SIGNS OF DETERIORATION.

- AS CONDITIONS DEMAND.





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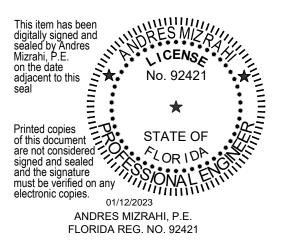


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#### **BMP MAINTENANCE NOTES**

ALL MEASURES STATED ON THESE PLANS SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR COMPLETED PHASE OF WORK OF FINAL STABILIZATION OF THE SITE. SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONSTRUCTION FDEP GENERIC PERMIT, AND REPAIRED IN ACCORDANCE WITH THE

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW

2. ALL SEEDED/SODDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED, WATERED AND REPAIRED AS NEEDED.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE.

4. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT FROM THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE EXIT

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN A GOOD CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE AREA AS CONDITIONS DEMAND. 6. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR

SEDIMENT LEAVING THE SITE SHALL BE CLEANED IMMEDIATELY. ALL INLETS AND STORM DRAINS SHALL BE KEPT CLEAN OF DEBRIS AND SEDIMENT. ANY DEBRIS

AND/OR SEDIMENT THAT ENTERS ANY INLET OR STORM DRAIN SHALL BE CLEANED IMMEDIATELY. FLUSHING SHALL NOT BE USED TO CLEAN DEBRIS AND/OR SEDIMENT FROM STORM DRAINS.

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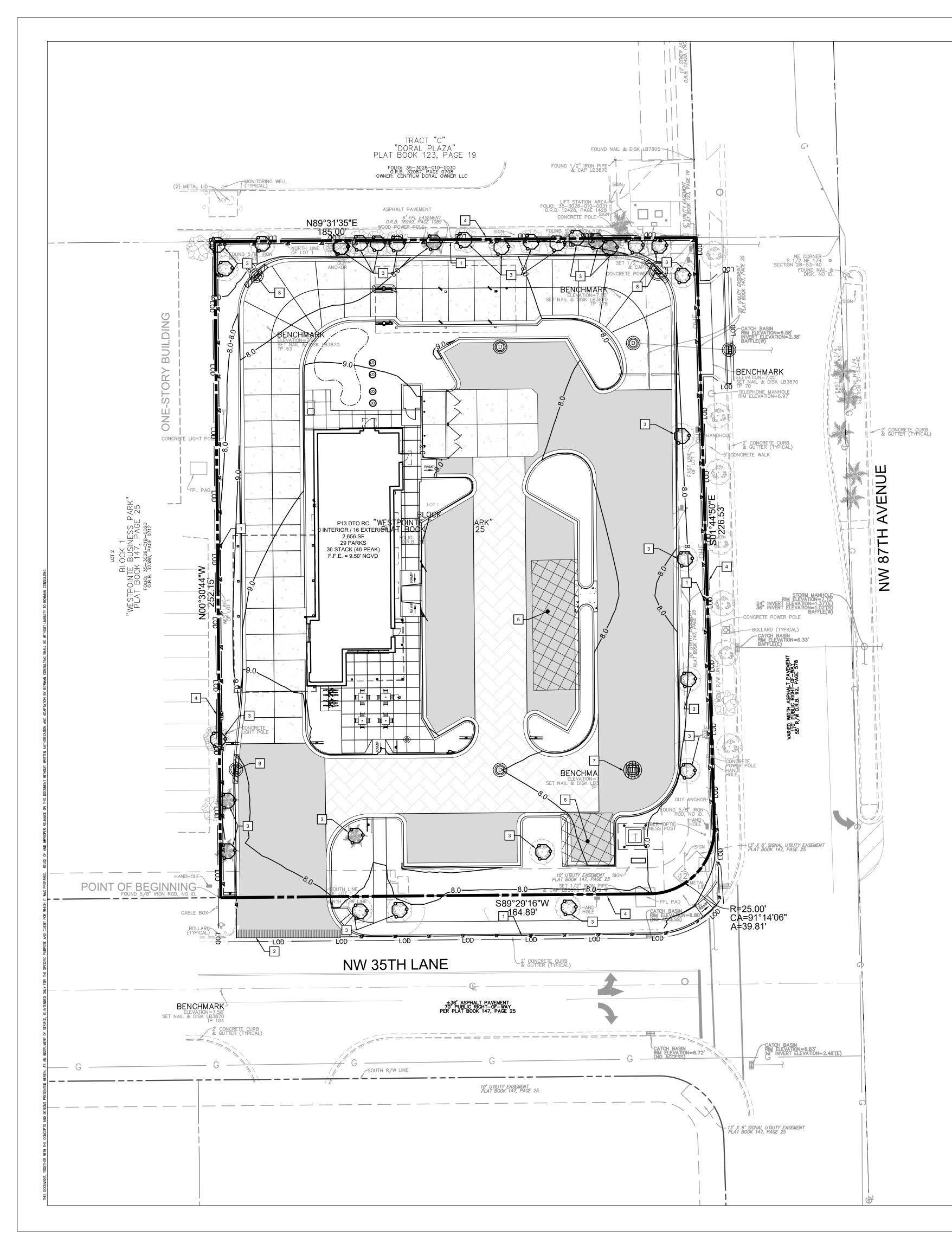
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EROSION CONTROL PLAN -PHASE

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#### LEGEND LIMIT OF DISTURBANCE \_\_\_\_\_ LOD \_\_\_\_ PROPERTY LINE EX. CONCRETE SIDEWALK 4 PROP. CURB INLET FILTER EX. CONCRETE D CURB PROP. CURB INLET FILTER *\_\_\_\_\_* EX. EDGE OF SIDEWALK PROP. SILT EX. POWER POLE പ DIKE ON PAVEMENT EX. SIGN 0 EX. STORM TYPE C INLET ------- SF -------PROP. SILT FENCE EX. STORM TYPE 9 CURB INLET TEMPORARY EX. STORM MANHOLE PARKING AND STAGING AREAS EX. FIRE HYDRANT 2 PROP. TREE BARRIER EX. SANITARY MANHOLE 8 OVERHEAD LINES \_\_\_\_\_ OHE \_\_\_\_\_ WATER LINE \_\_\_\_\_\_W\_\_\_\_\_ SEWER LINE \_\_\_\_\_\_ \$\$ \_\_\_\_\_

#### EROSION CONTROL NOTES

1 CONST. SILT FENCE  $\begin{pmatrix} 1 \\ \hline 1 \\ \hline -3.3 \end{pmatrix}$ 

2 CONST. SILT DIKE ON PAVEMENT  $\begin{pmatrix} 2 \\ C-3.3 \end{pmatrix}$ 

3 CONST. TREE BARRIER  $\frac{3}{C \cdot 3 \cdot 3}$ 

4 LIMIT OF DISTURBANCE

5 TEMPORARY PARKING AREA

6 TEMPORARY STORAGE AREA 7 CONST. INLET FILTER  $\frac{6}{C \cdot 3 \cdot 3}$ 

8 CONST. CURB INLET FILTER (5)

- GENERAL EROSION CONTROL NOTES . CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED AND THAT CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
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- 5. ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 7. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. 9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY STOPPED FOR AT LEAST 7 DAYS, SHALL BE TEMPORARILY SEEDED.
- 11. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SODDED/LANDSCAPED PER PLANS, THESE AREA SHALL BE SODDED/LANDSCAPED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- 12. IF THE ACTION OF VEHICLES TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- 13. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 14. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH FDEP GENERIC PERMIT REQUIREMENTS.
- 16. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. 17. DUE TO CONSTRUCTION ACTIVITIES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT
- CONTROL MEASURES TO PREVENT EROSION AND SEDIMENTATION.
- 18. CONTRACTOR SHALL DESIGNATE/IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
- 19. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- 20. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS PALM BEACH COUNTY IS NOTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 21. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. (ONCE CONTRACTOR IS SELECTED, A QUALIFIED FOREMAN/SUPERVISOR WILL BE DESIGNATED AND AVAILABLE AT THE PRE-CONSTRUCTION MEETING)
- 22. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE COUNTY'S INSPECTOR.

### CONSTRUCTION SEQUENCE

- CONDUCT PRE-CONSTRUCTION MEETING WITH THE COUNTY TO DISCUSS EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION PHASING. INSTALL AND POST SWPPP AND SITE COMPLIANCE SIGNAGE PUBLICLY VISIBLE.
- INSTALL INLET PROTECTION, SILT DIKES, AND SILT FENCE ON THE SITE AS SHOWN. INSTALL CONSTRUCTION FENCES AND TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL
- DEVICES. PREPARE TEMPORARY PARKING AND STORAGE AREAS. DEMO EXISTING STRUCTURES, PAVEMENT, AND SPECIFIED UTILITIES.
- BEGIN GRADING THE SITE. BEGIN CONSTRUCTION OF UTILITIES.
- BEGIN SUBGRADE PREPARATION AND CONSTRUCTION OF STRUCTURES. 0. BEGIN INSTALLATION OF CURB, GUTTER, AND PAVING.
- 11. COMPLETE PERMANENT STABILIZATION ON AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED.
- 12. COMPLETE FINAL GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS 13. OBTAIN CONCURRENCE FROM THE OWNER AND THE COUNTY THAT THE SITE HAS BEEN
- FULLY STABILIZED. 14. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
- 15. STABILIZE ALL AREAS DISTURBED BY BMP REMOVAL. CONTRACTOR MAY COMPLETE CONSTRUCTION RELATED ACTIVITIES CONCURRENTLY ONLY IF

ALL PRECEDING BMPS HAVE BEEN COMPLETELY INSTALLED. THE ACTUAL SCHEDULE FOR IMPLEMENTING POLLUTANT CONTROL MEASURES WILL BE

DETERMINED BY THE PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE GENERAL 7 CONTRACTOR ON THESE PLANS.

- FOLLOWING:

- AS CONDITIONS DEMAND.





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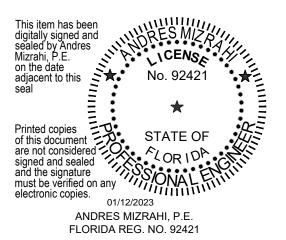


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Seal



8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE

15. ON-SITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT

#### **BMP MAINTENANCE NOTES**

ALL MEASURES STATED ON THESE PLANS SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR COMPLETED PHASE OF WORK OF FINAL STABILIZATION OF THE SITE. SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONSTRUCTION FDEP GENERIC PERMIT, AND REPAIRED IN ACCORDANCE WITH THE

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF DETERIORATION.

2. ALL SEEDED/SODDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED, WATERED AND REPAIRED AS NEEDED.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE.

4. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT FROM THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE EXIT

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN A GOOD CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE AREA AS CONDITIONS DEMAND. 6. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR

SEDIMENT LEAVING THE SITE SHALL BE CLEANED IMMEDIATELY. ALL INLETS AND STORM DRAINS SHALL BE KEPT CLEAN OF DEBRIS AND SEDIMENT. ANY DEBRIS

AND/OR SEDIMENT THAT ENTERS ANY INLET OR STORM DRAIN SHALL BE CLEANED IMMEDIATELY. FLUSHING SHALL NOT BE USED TO CLEAN DEBRIS AND/OR SEDIMENT FROM STORM DRAINS.

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## FSU# 5069

REVISION SCHEDULE DATE 1 05/09/2022

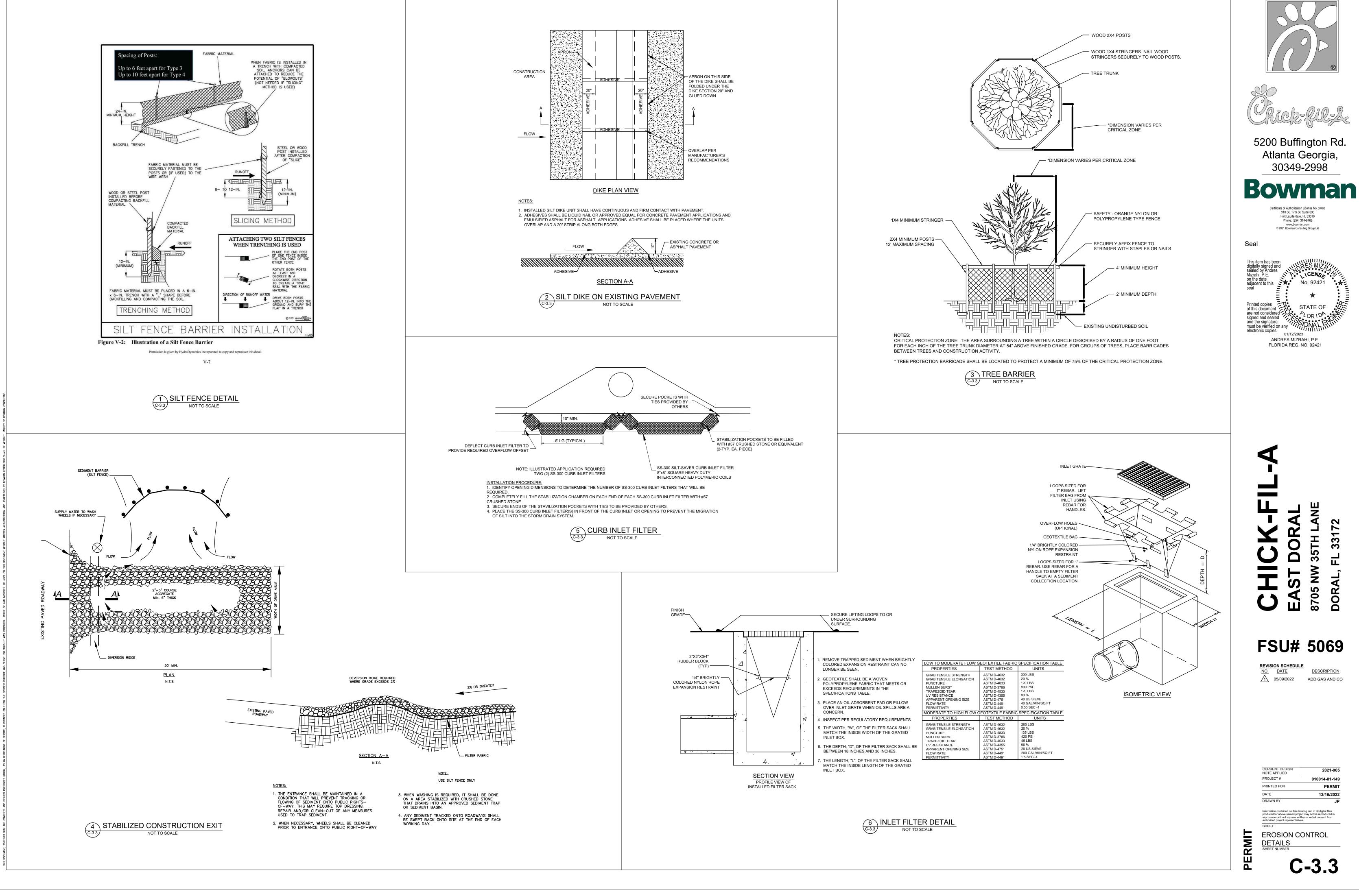
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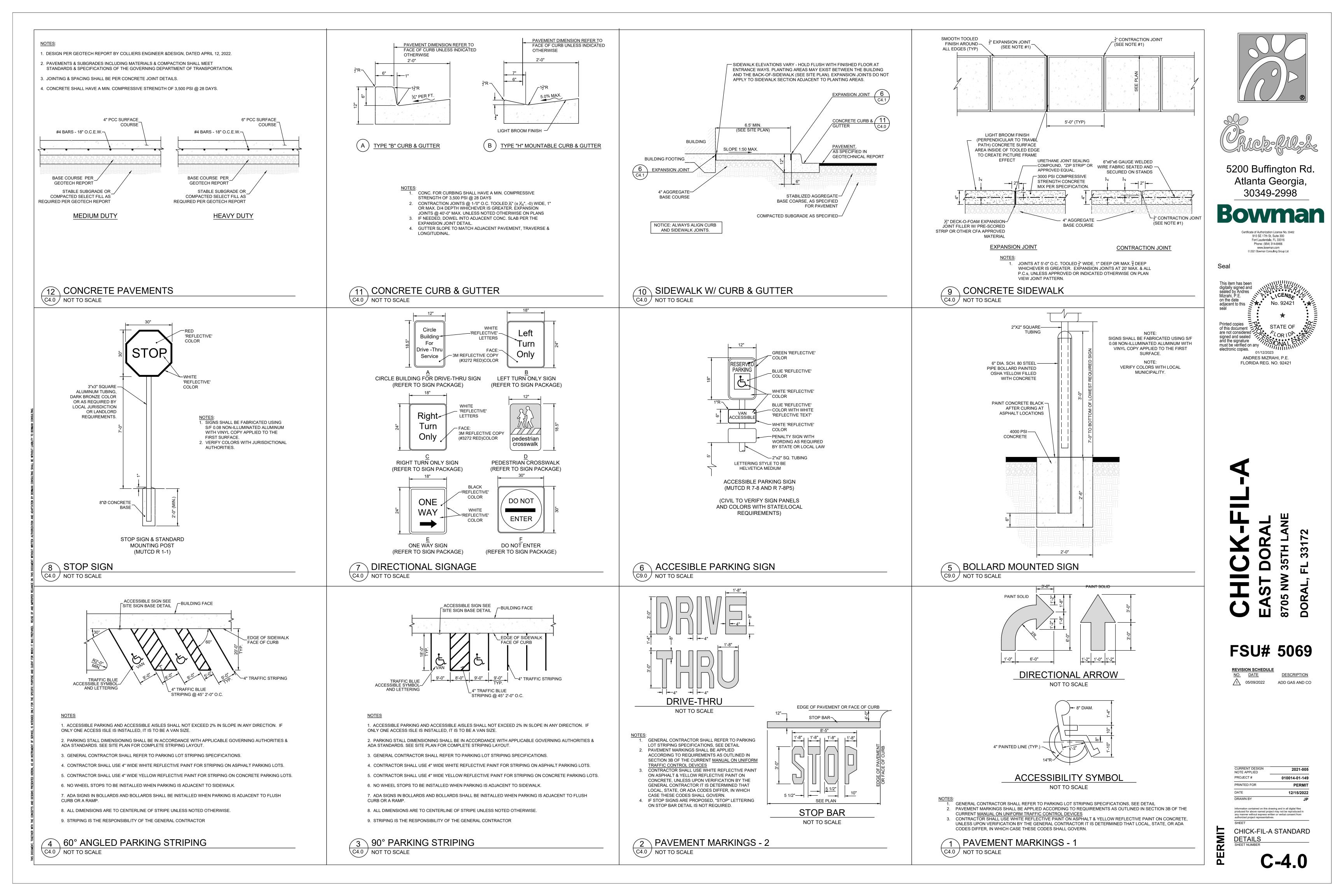
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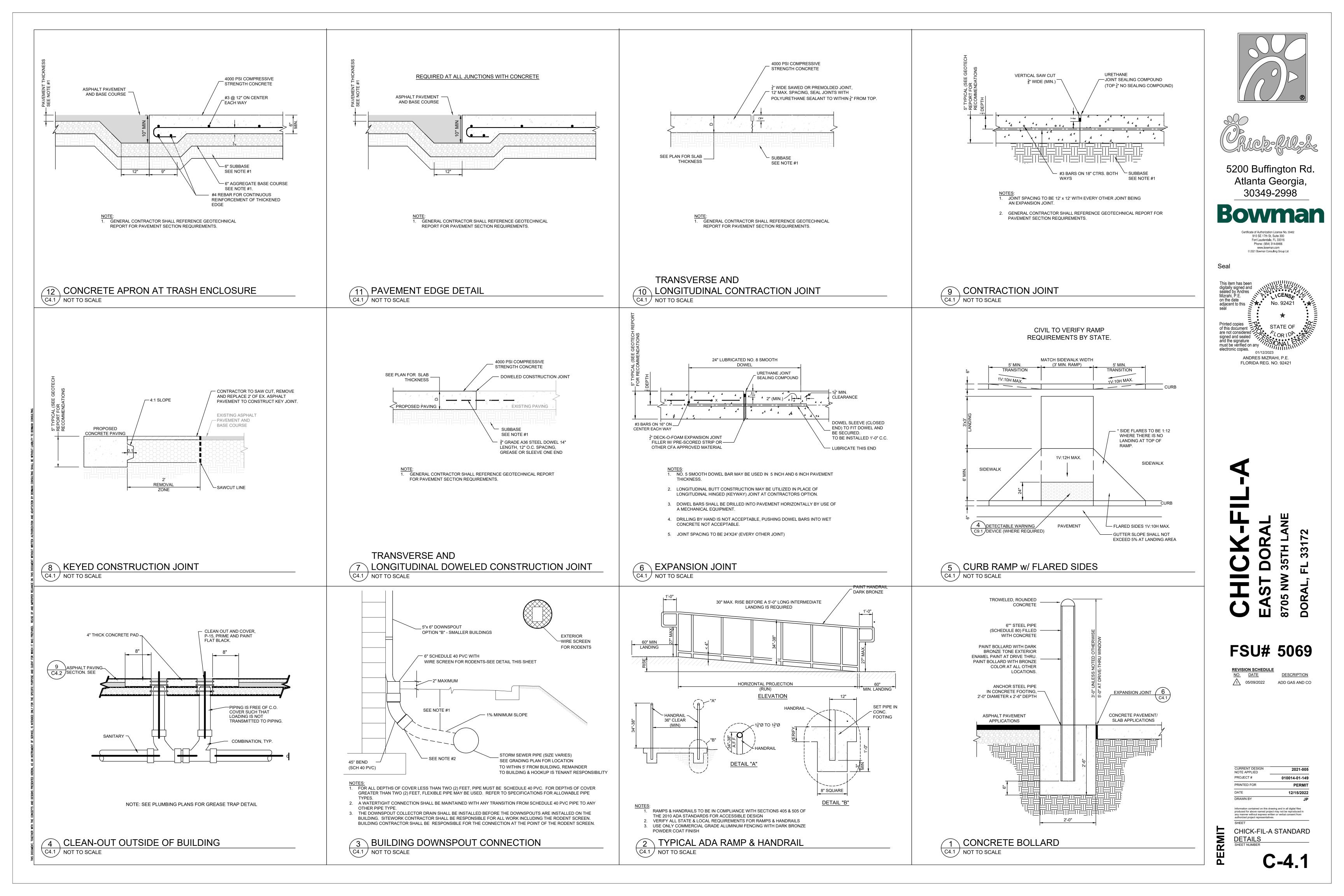
EROSION CONTROL PLAN · PHASE

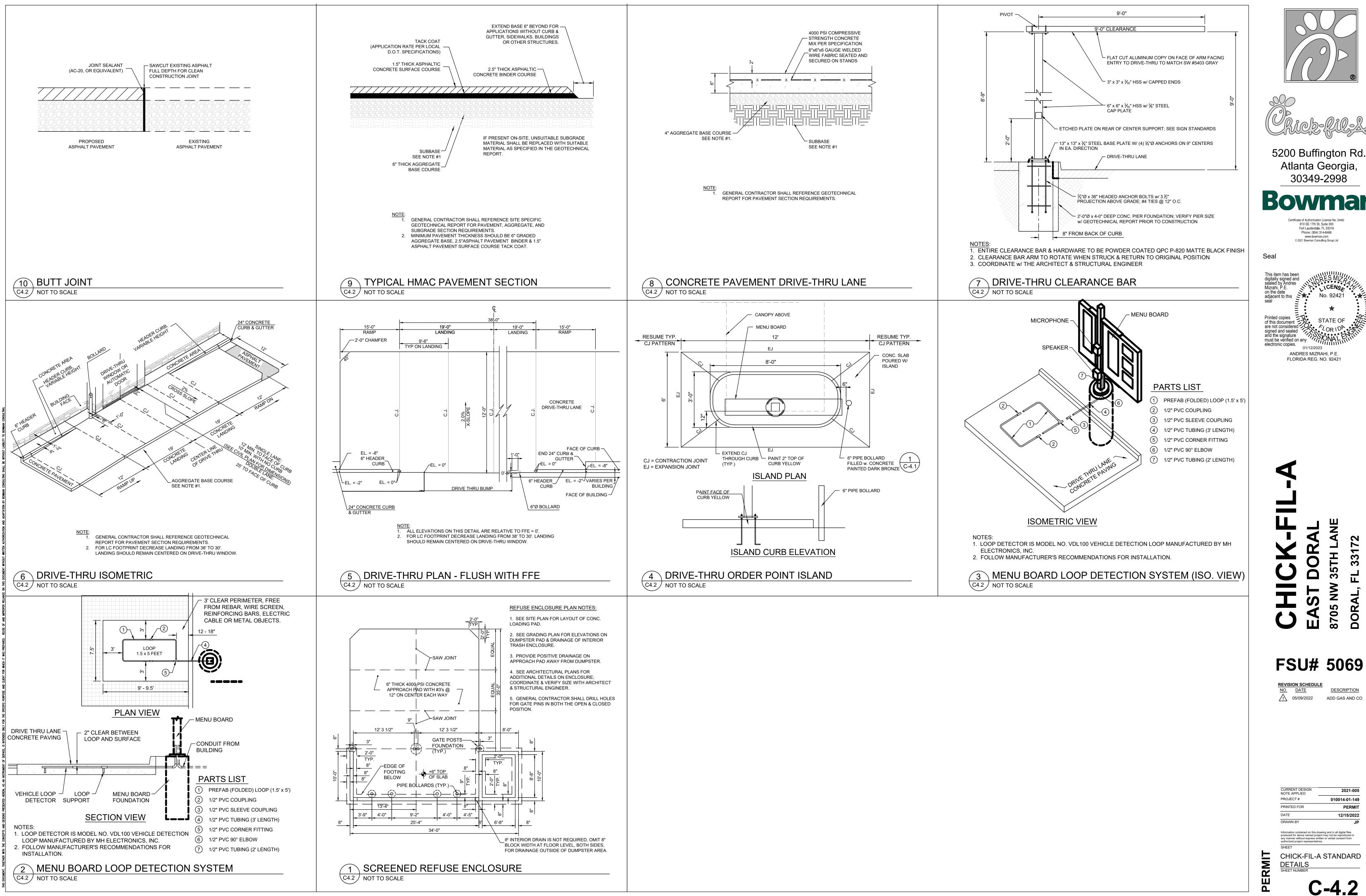
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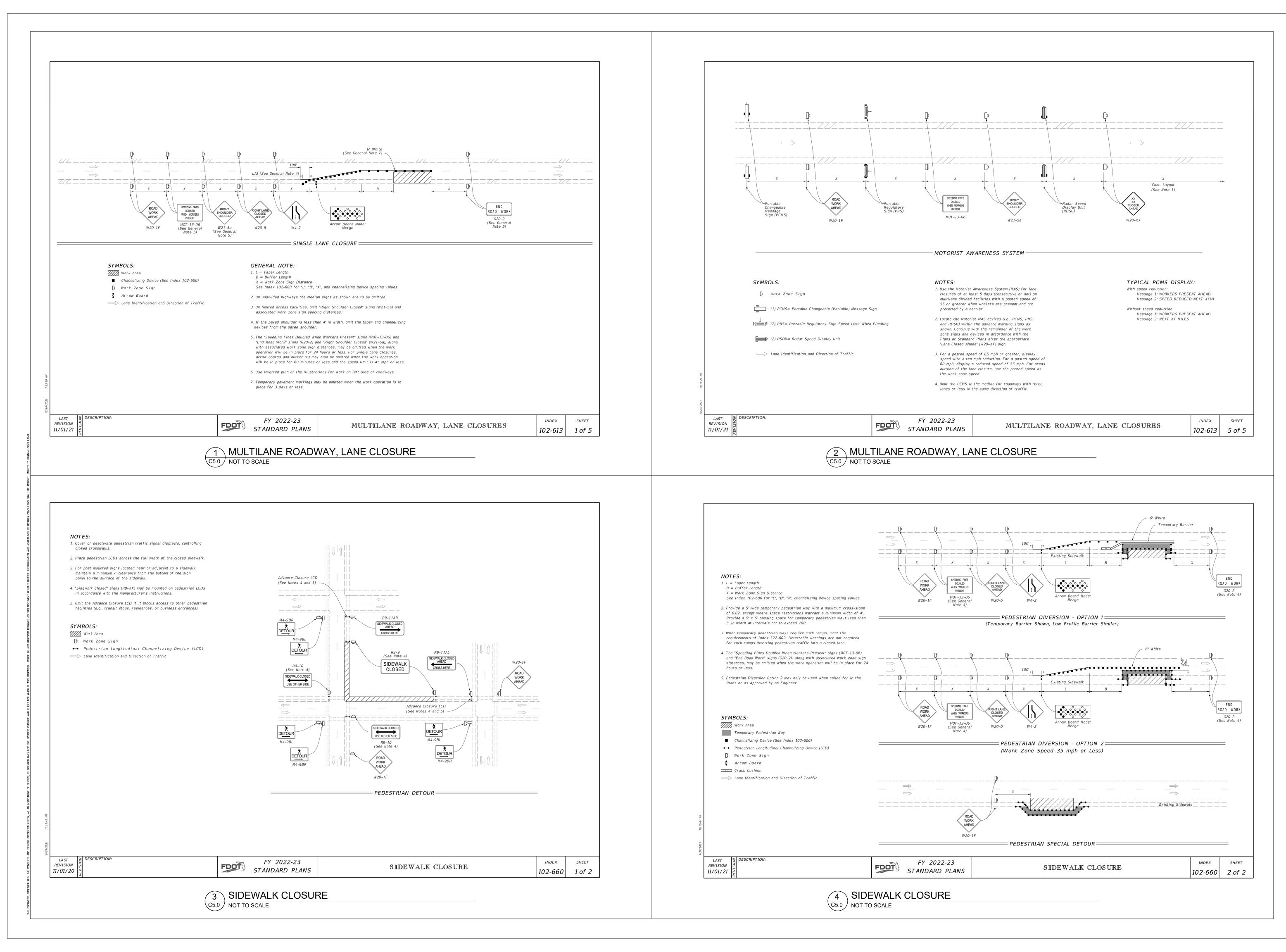
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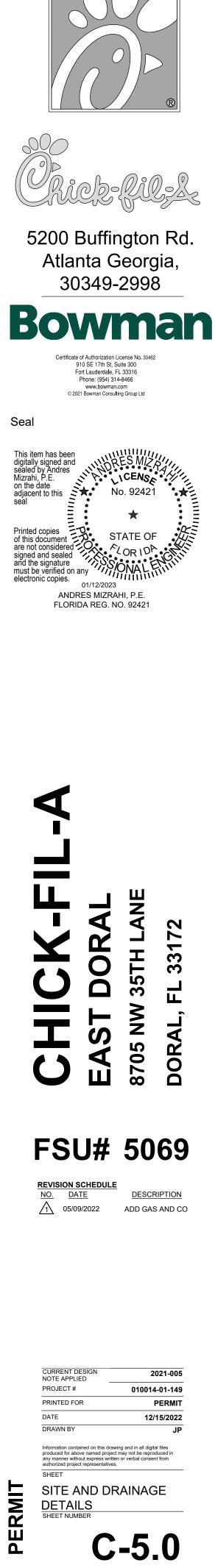
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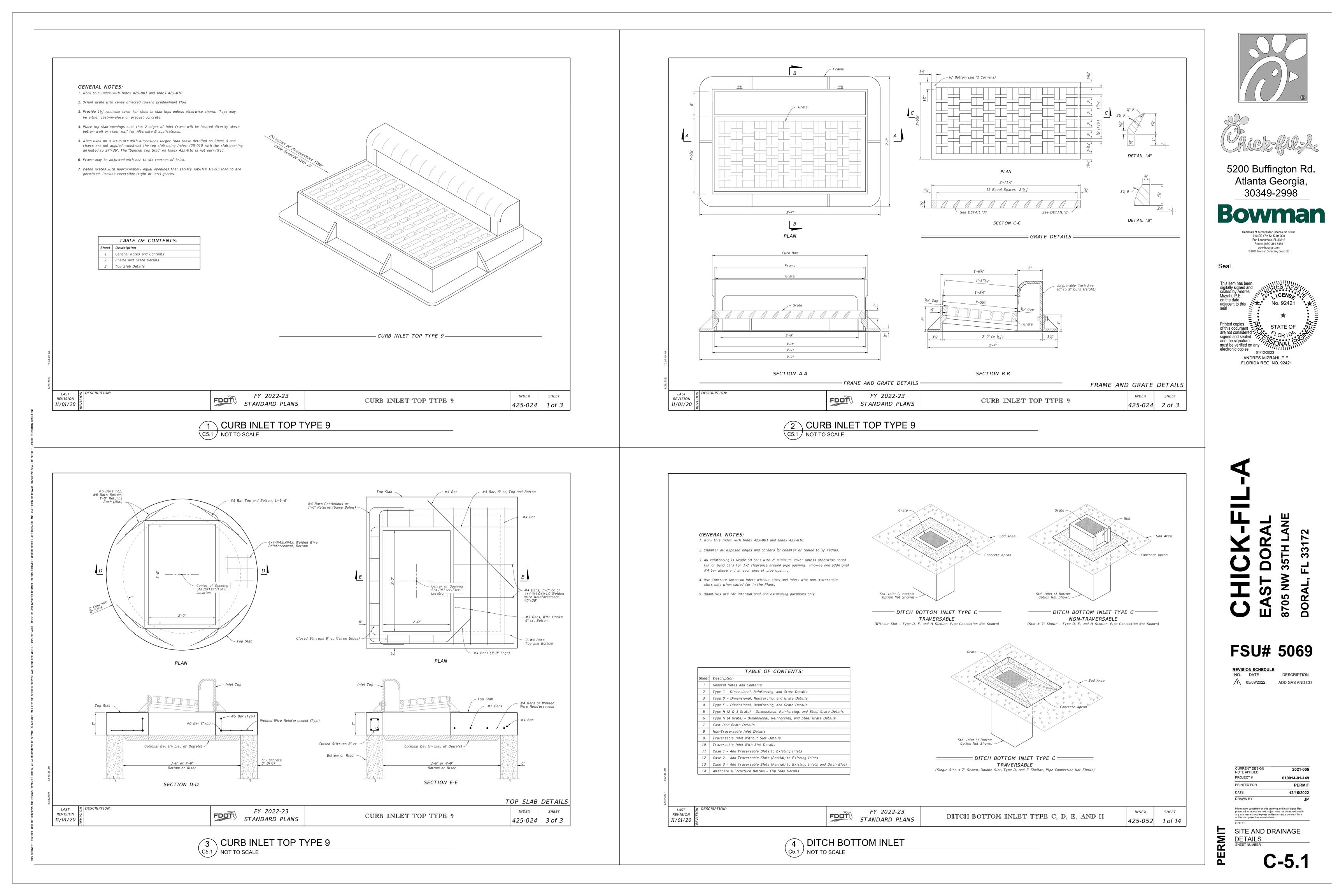
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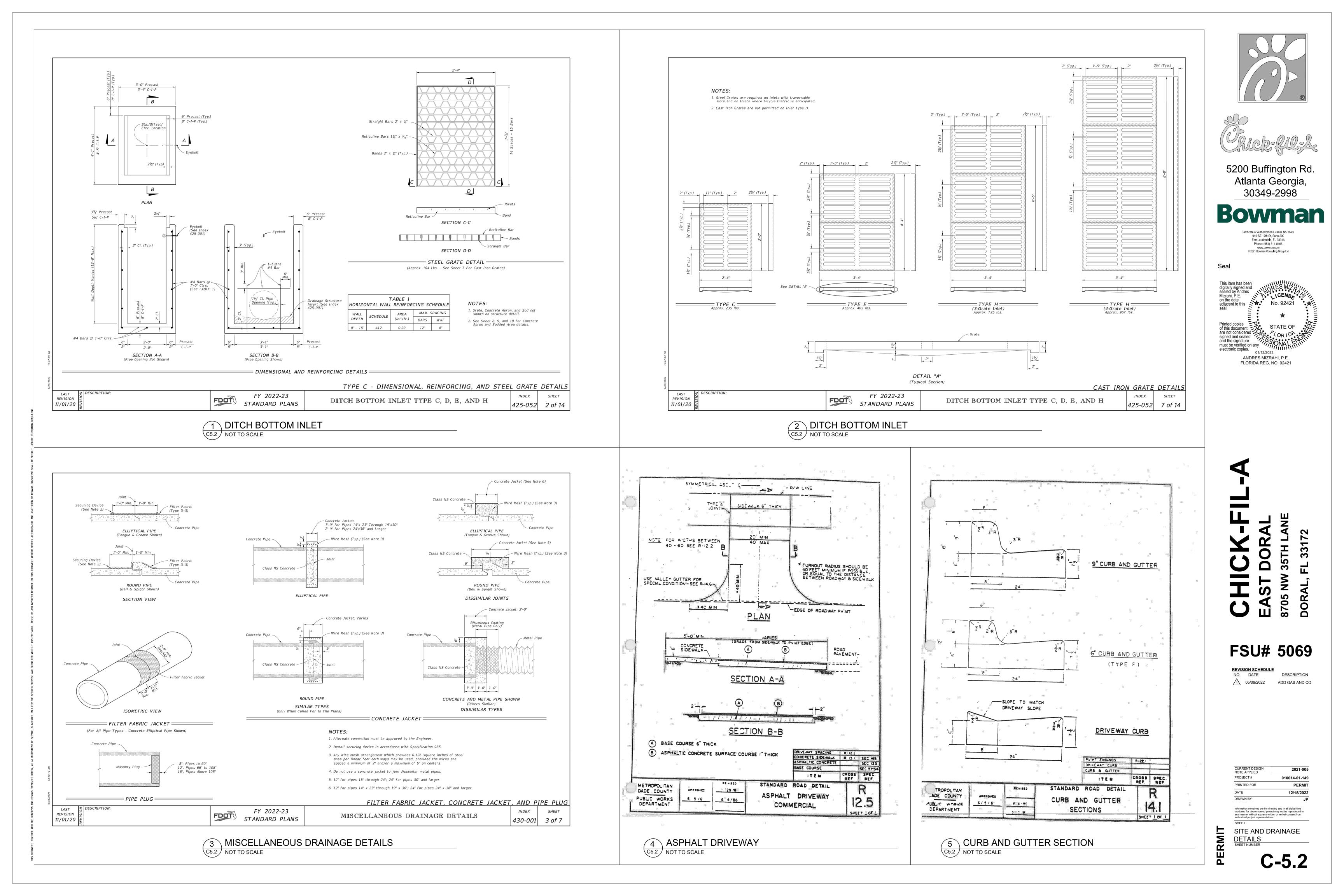
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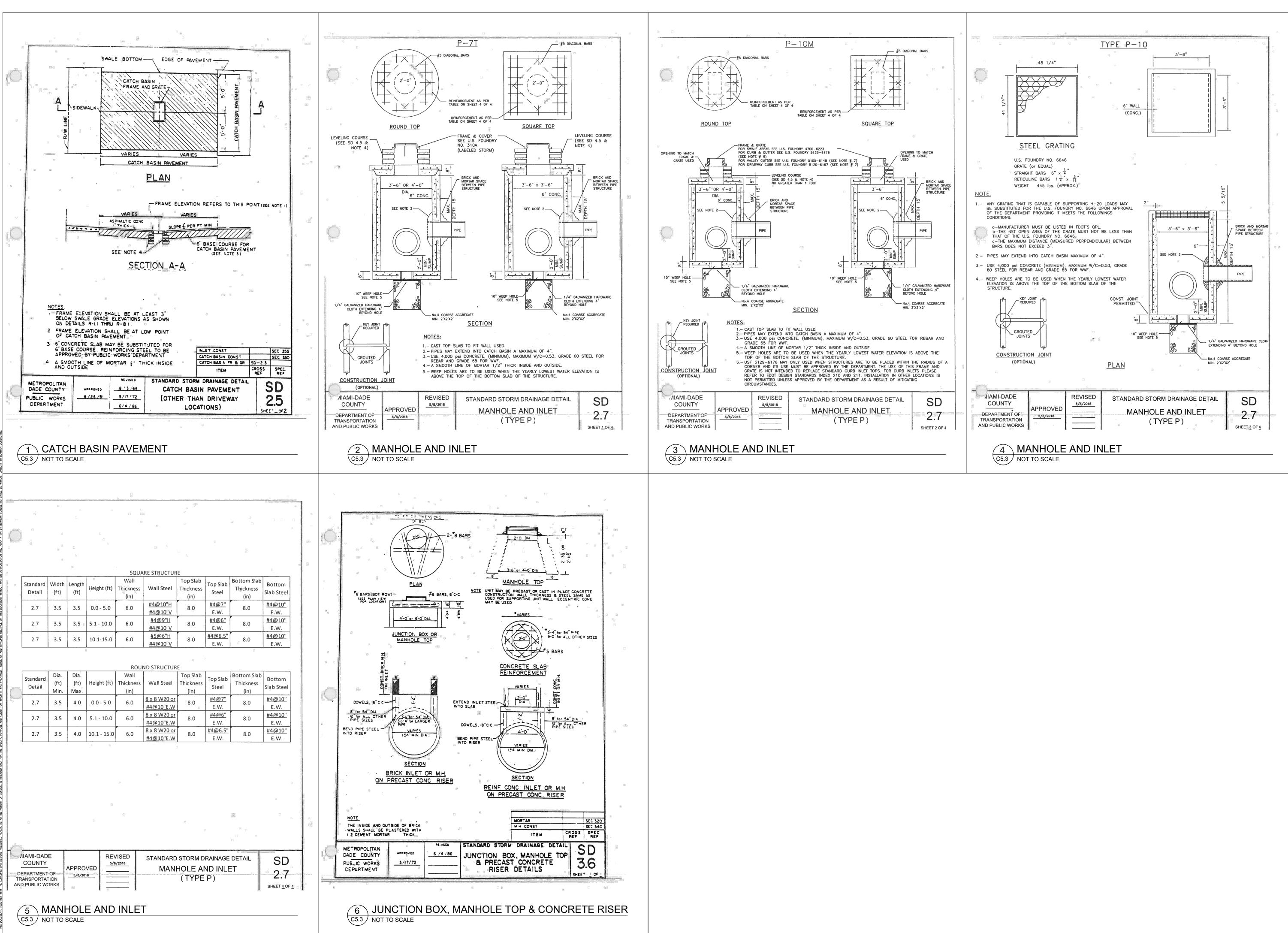
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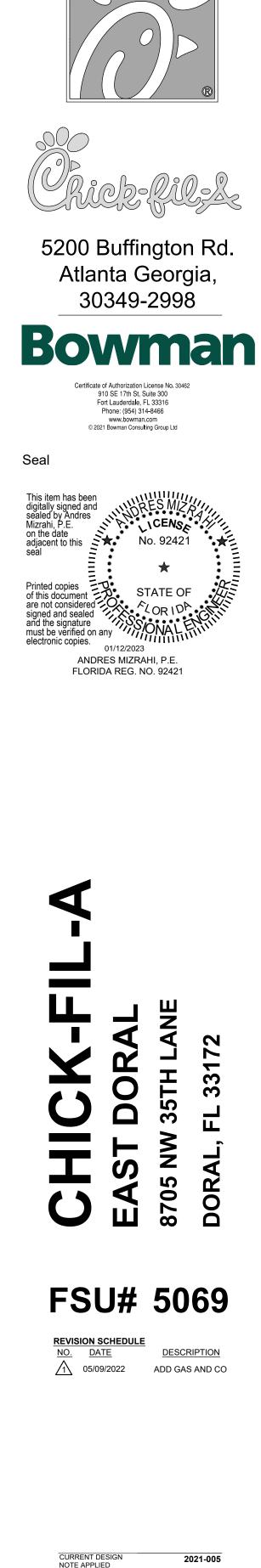










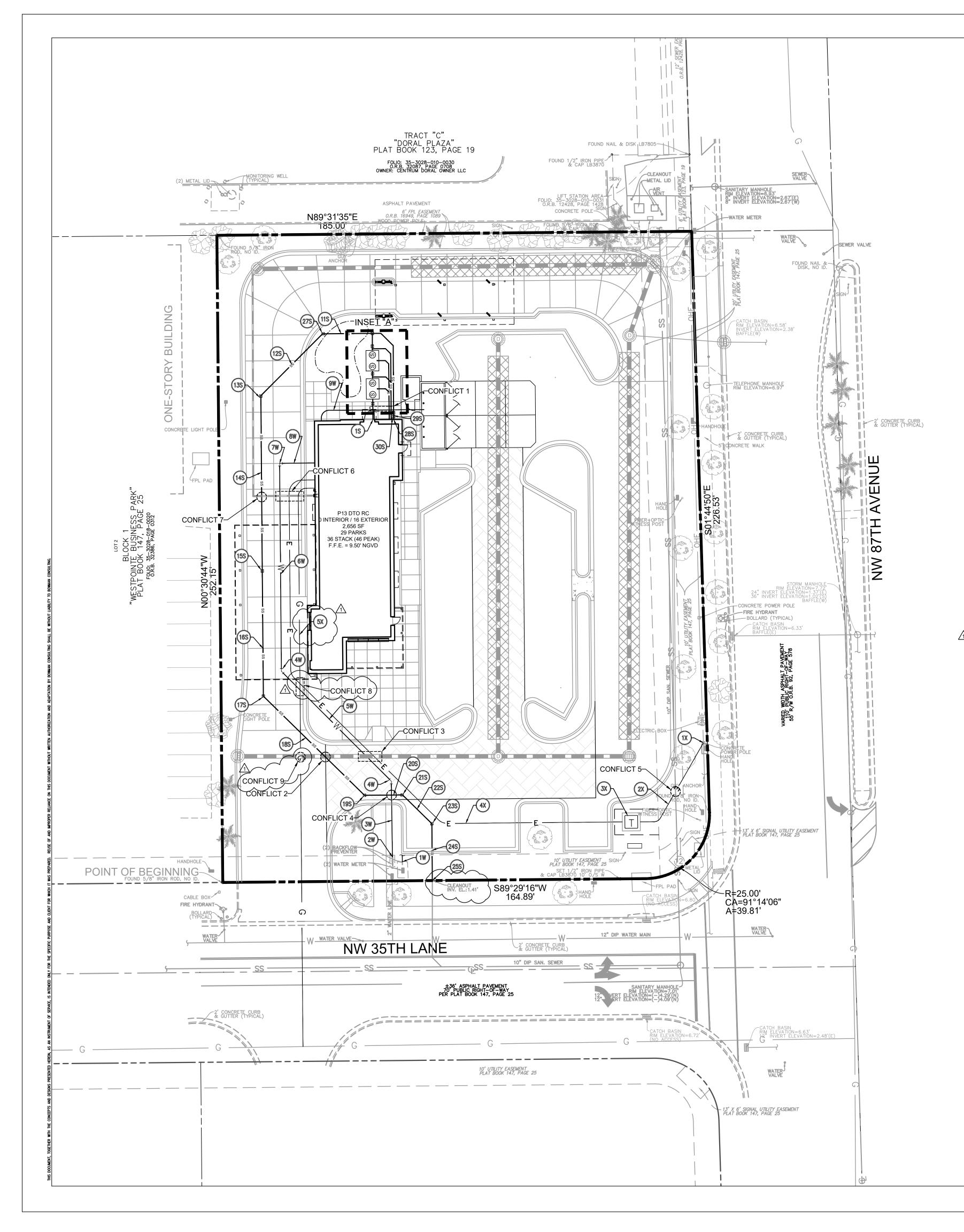


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SITE AND DRAINAGE DETAILS

**C-5.3** 

PERMIT



	LE	EGEND	
PROP. TYPE "F" CURB		PROPERTY LINE	
PROP. CATCH BASIN		EX. CONCRETE SIDEWALK	
PROP. CURB INLET		EX. CONCRETE D CURB	
		EX. EDGE OF SIDEWALK	
PROP. MANHOLE	$(\bigcirc)$	EX. POWER POLE	
PROP. STORM SEWER		EX. SIGN	
PROP. SANITARY SEWER		EX. STORM TYPE C INLET	
PROP. POTABLE WATER	W	EX. STORM TYPE 9 CURB INLET	
PROP. ELECTRIC SERVICE	———— E	EX. STORM MANHOLE	D
PROP. SANITARY CLEANOUT	۵	EX. FIRE HYDRANT	0
PROP. GREASE TRAP	S S	EX. SANITARY MANHOLE	\$
PROP. TRANSFORMER		OVERHEAD LINES	OHE
FROF. TRAINSFORMER	L T	WATER LINE	W
		SEWER LINE	S S

#### UTILITY CONSTRUCTION NOTES

#### WATER SERVICE

(1W) CONNECT TO EXISTING BACKFLOW PREVENTER FOR IRRIGATION (SEE IRRIGATION PLANS FOR CONTINUATION)

### 2W CONNECT TO EXISTING BACKFLOW PREVENTER FOR POTABLE WATER SERVICE

(3W) CONST. 23 LF OF 2" PVC POTABLE WATER SERVICE

(4W) CONST. 45° ELBOW

(5W) CONST. 59 LF OF 2" PVC POTABLE WATER SERVICE

(6W) CONST. 79 LF OF 2" PVC POTABLE WATER SERVICE

#### (7W) CONST. 90° ELBOW

(8W) CONST. 14 LF OF 2" PVC POTABLE WATER SERVICE

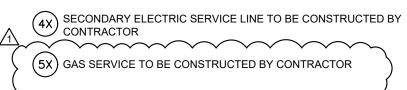
(9W) CONST. 45 LF OF  $\frac{3}{4}$ " WATER SERVICE TO DUMPSTER

### ELECTRICAL, TELEPHONE AND GAS SERVICE

(1X) CONNECT TO EXISTING POWER POLE

2X PRIMARY ELECTRIC SERVICE LINE TO BE CONSTRUCTED BY SERVICE PROVIDER

(3X) PROPOSED FPL TRANSFORMER



\_\_\_\_\_

#### SEWER SERVICE

(1S) 6" GREASE LINE FROM BUILDING INV. EL. = 5.12' (SEE ARCHITECTURAL PLANS FOR CONTINUATION)

- (2S) CONST. 9 LF OF 6" SANITARY SEWER AT 1.0%
- (3S) CONST. SANITARY CLEANOUT WITH INV. EL. = 5.03'
- (4S) CONST. 2 LF OF 6" SANITARY SEWER AT 1.0%
- SCONST. 1,250 GAL GREASE TRAP WITH INFLOW INV.EL. = 5.01' AND OUTFLOW INV. EL. = 4.84'
- (6S) CONST. SANITARY CLEANOUT WITH INV. EL. = 4.82'

- (13S) CONST. SANITARY CLEANOUT WITH INV. EL. = 4.04'
- (14S) CONST. 68 LF OF 6" SANITARY SEWER AT 1.0%

#### UTILITY CONFLICTS CONFLICT 1

WATER SERVICE TO DUMPSTER TO PASS OVER GREASE AND SANITARY LINE T.O.P. GREASE = 5.75' T.O.P. SANITARY= 5.62'

#### CONFLICT 2

STORM TO PASS OVER SEWER WITH MINIMUM CLEARANCE OF 6" T.O.P. SEWER = 3.22'

### B.O.P. STORM = 3.72'

CONFLICT 3

WATER AND ELECTRIC SERVICES TO PASS OVER STORM WITH MINIMUM CLEARANCE OF 12" T.O.P. STORM = 5.45'

### CONFLICT 4

WATER TO PASS OVER SEWER SERVICE WITH MINIMUM CLEARANCE OF 12" T.O.P. SEWER = 2.93'

### CONFLICT 5

ELECTRIC SERVICE TO PASS OVER EXISTING SEWER WITH MINIMUM CLEARANCE OF 12"

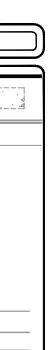
#### CONFLICT 6 WATER, ELECTRIC AND GAS TO PASS OVER STORM

WITH A MINIMUM CLEARANCE OF 12" T.O.P STORM = 6.82'

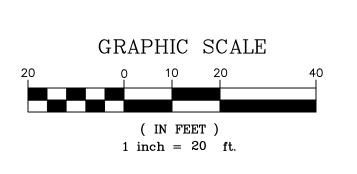
#### CONFLICT 7

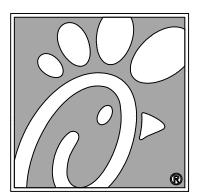
STORM TO PASS OVER SEWER WITH A MINIMUM CLEARANCE OF 6" T.O.P SEWER = 4.34' B.O.P. SEWER = 4.84'

 $\sim\sim\sim\sim\sim$ CONFLICT 8 WATER AND ELECTRIC TO PASS OVER GAS WITH A MINIMUM CLEARANCE OF 12" CONFLICT 9 GAS TO PASS OVER STORM WITH A MINIMUM CLEARANCE OF 12" T.O.P STORM = 5.22'







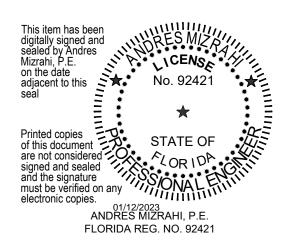


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Seal

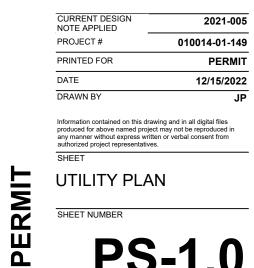


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## FSU# 5069

REVISION SCHEDULE NO. DATE 1 05/09/2022

DESCRIPTION ADD GAS AND CO



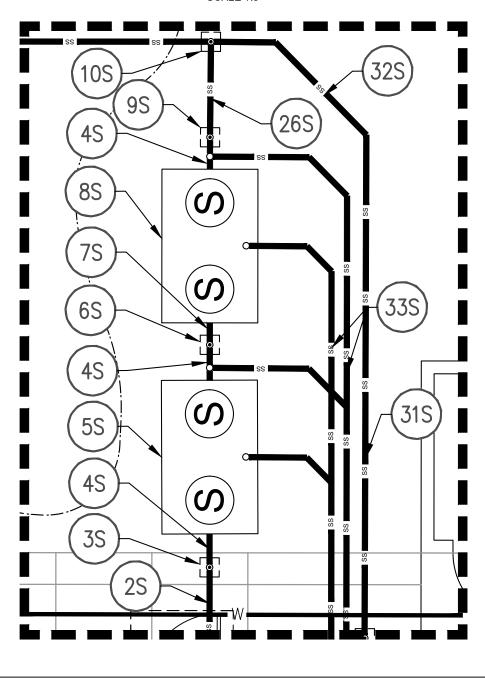
- (7S) CONST. 1 LF OF 6" SANITARY SEWER AT 1.0%
- (8S) CONST. 1,250 GAL GREASE TRAP WITH INFLOW INV. EL. = 4.81' AND OUTFLOW INV. EL. = 4.64' (9S) CONST. SANITARY CLEANOUT WITH INV. EL. = 4.62'
- (10S) CONST. SANITARY CLEANOUT WITH INV. EL. = 4.57'
- (11S) CONST. 19 LF OF 6" SANITARY SEWER AT 1.0%
- (12S) CONST. 34 LF OF 6" SANITARY SEWER AT 1.0%
- (15S) CONST. SANITARY CLEANOUT WITH INV. EL. = 3.36'
- (16S) CONST. 48 LF OF 6" SANITARY SEWER AT 1.0%

(18S) CONST. 55 LF OF 6" SANITARY SEWER AT 1.0% (19S) CONST. SANITARY CLEANOUT WITH INV. EL. = 2.33' (20S) CONST. 14 LF OF 6" SANITARY SEWER AT 1.0% (21S) CONST. SANITARY CLEANOUT WITH INV. EL. = 2.19'

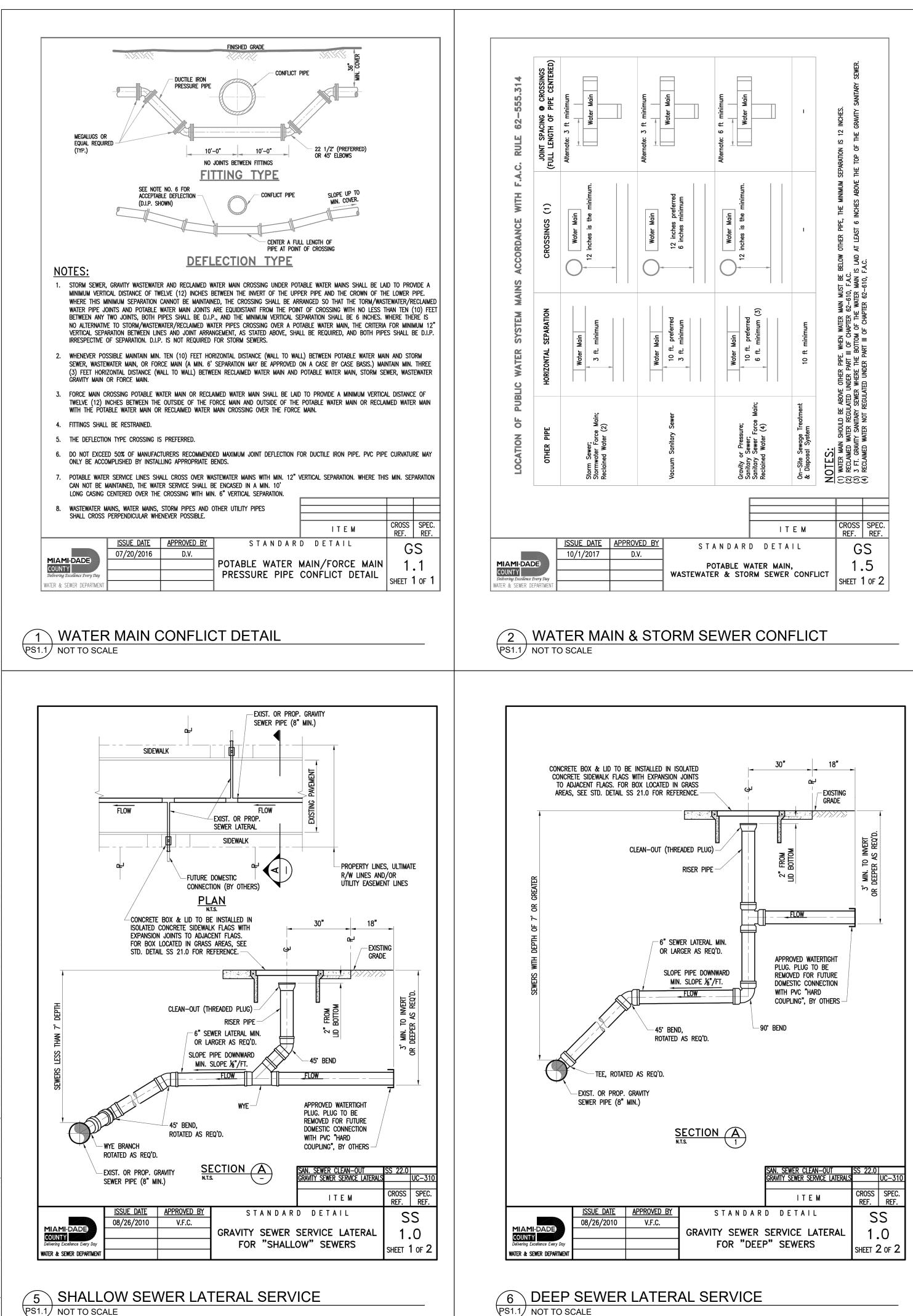
(17S) CONST. SANITARY CLEANOUT WITH INV. EL. = 2.88'

- (22S) CONST. 16 LF OF 6" SANITARY SEWER AT 1.0%
- (23S) CONST. SANITARY CLEANOUT WITH INV. EL. = 2.03'
- (245) CONST. 22 LF OF 6" SANITARY SEWER AT 2.8%
- CONNECT TO EXISTING SANITARY CLEANOUT WITH INV. EL. = 1.41'
- (265) CONST. 5 LF OF 6" SANITARY SEWER AT 1.0%
- (27S) CONST. SANITARY CLEANOUT WITH INV. EL. = 4.38' 6" SANITARY LINE FROM BUILDING INV. WL. = 4.96' (SEE ARCHITECTURAL PLANS FOR CONTINUATION
- (295) CONST. 3 LF OF 6" SANITARY SEWER AT 1.0%
- (30S) CONST. SANITARY CLEANOUT WITH INV. EL. = 4.93'
- (31S) CONST. 26 LF OF 6" SANITARY SEWER AT 1.0%
- (32S) CONST. 10 LF OF 6" SANITARY SEWER AT 1.0% (335) CONST. 3" SANITARY VENT LINES

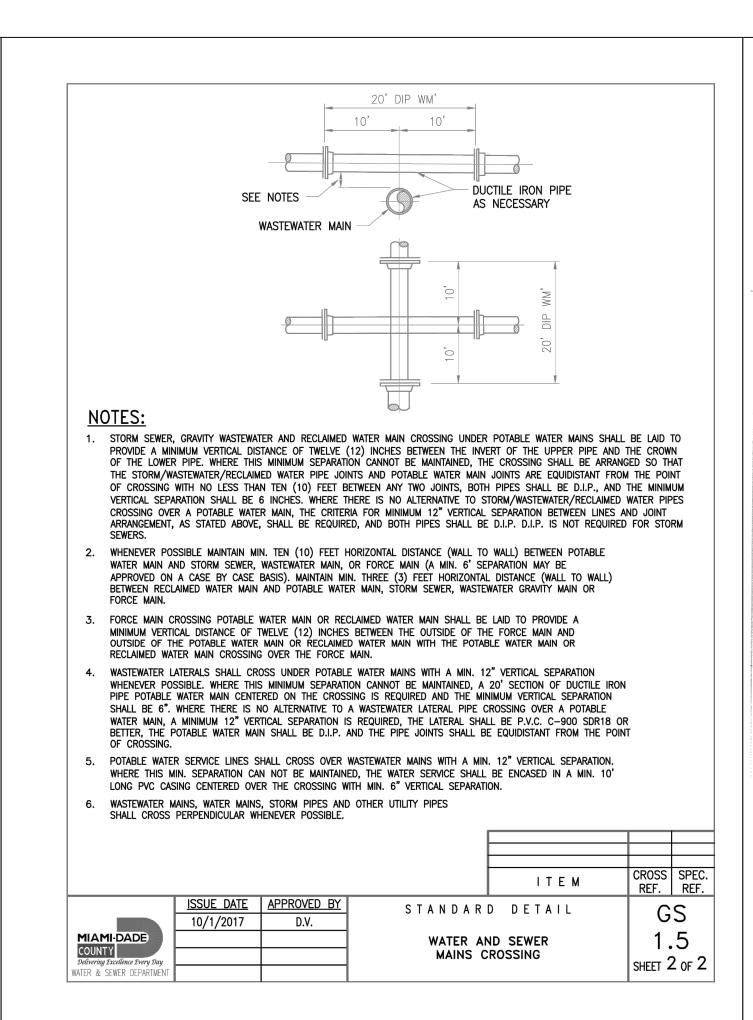




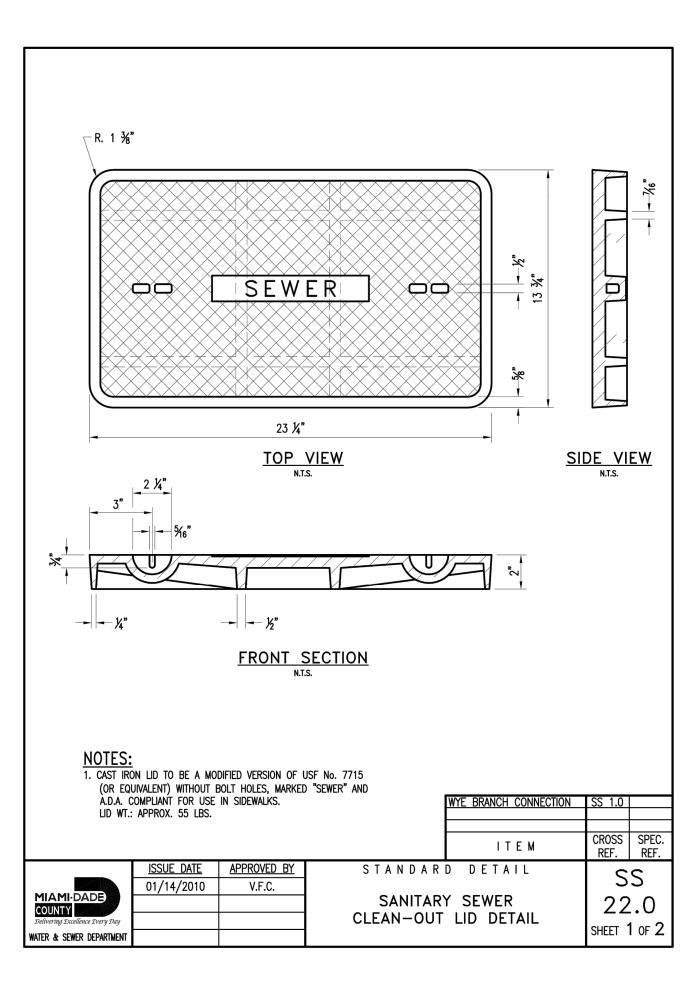
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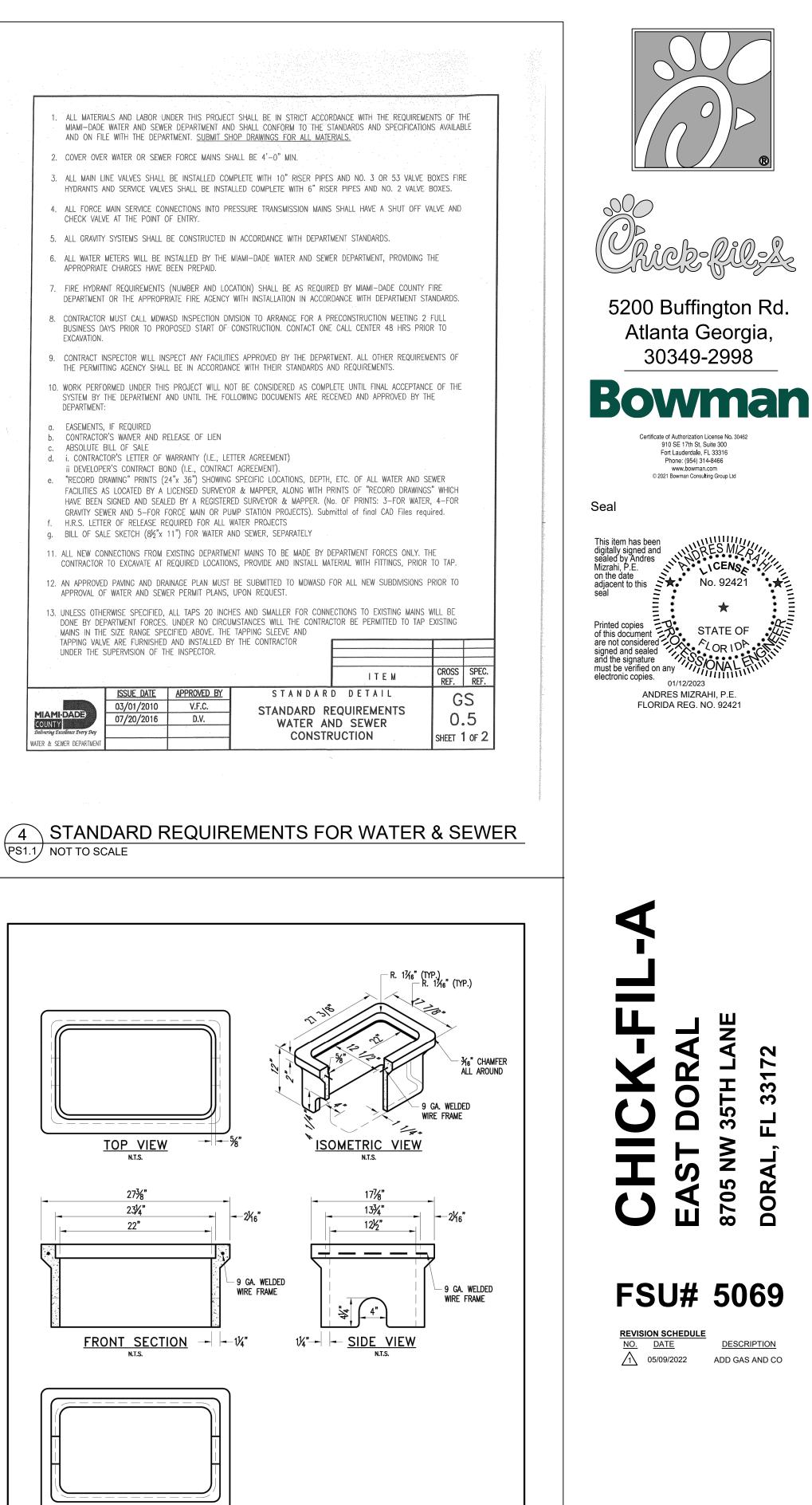






SANITARY SEWER CLEAN-OUT LID PS1.1 NOT TO SCALE

water & sewer departmen



WYE BRANCH CONNECTION SS 1.0

ITEM

STANDARD DETAIL

SANITARY SEWER CLEAN-OUT

CONCRETE BOX DETAIL

CROSS SPEC

SS

22.0

SHEET 2 of 2

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DESCRIPTION

8 SANITARY SEWER CLEAN-OUT BOX PS1.1 NOT TO SCALE

BOTTOM VIEW

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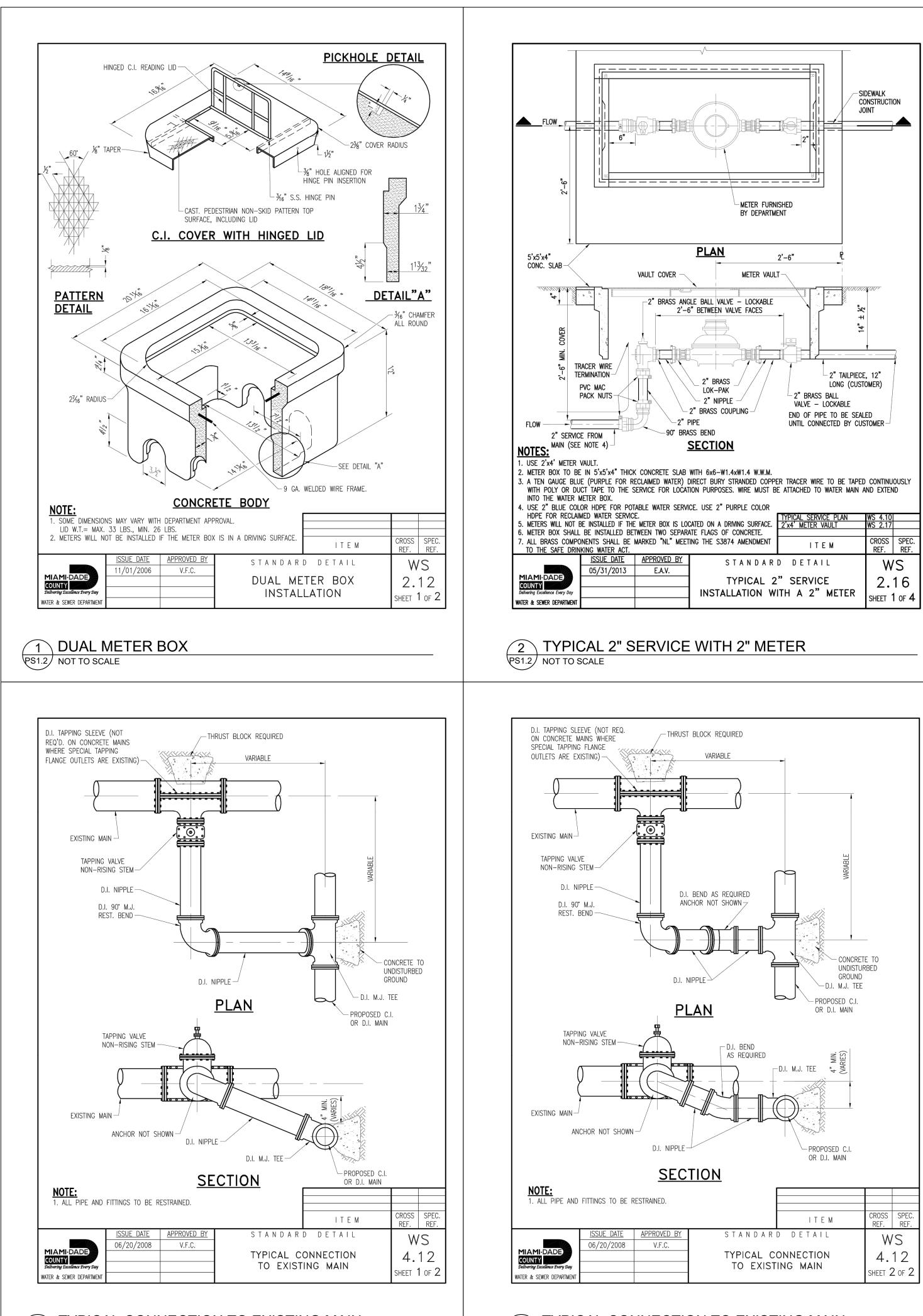
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V.F.C.

SHEET NUMBER **PS-1.1** 

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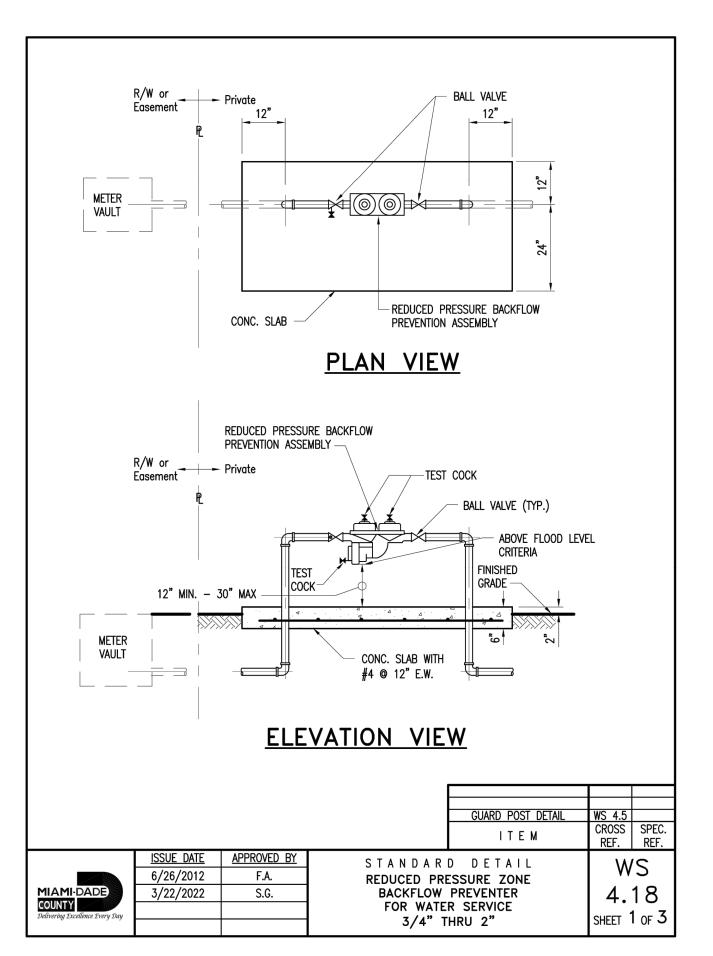
TYPICAL CONNECTION TO EXISTING MAIN (PS1.2) NOT TO SCALE

6 TYPICAL CONNECTION TO EXISTING MAIN PS1.2 NOT TO SCALE

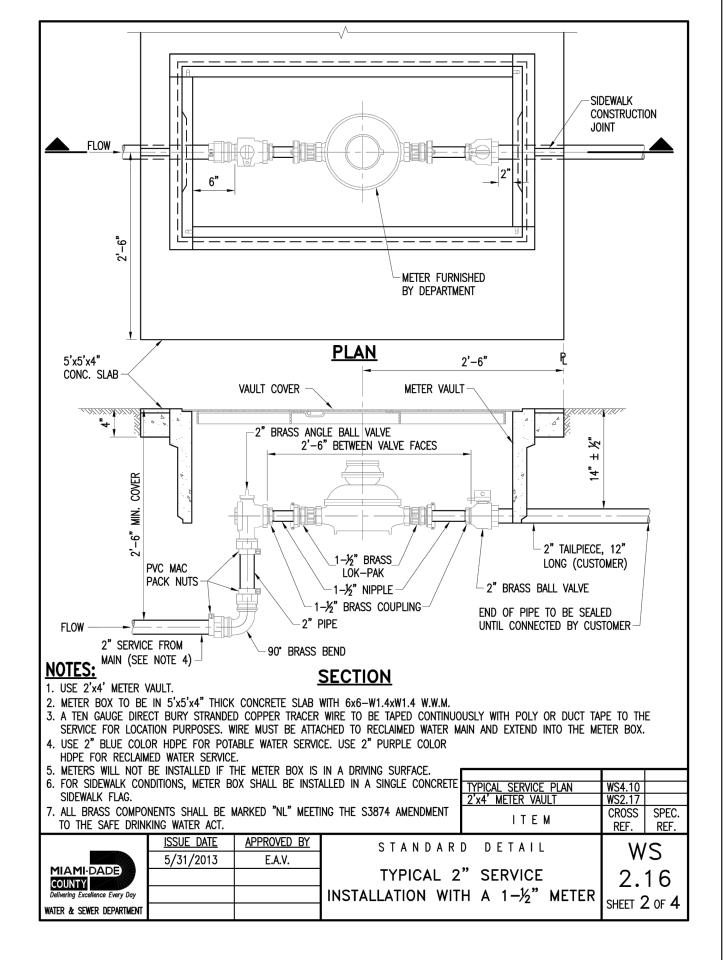


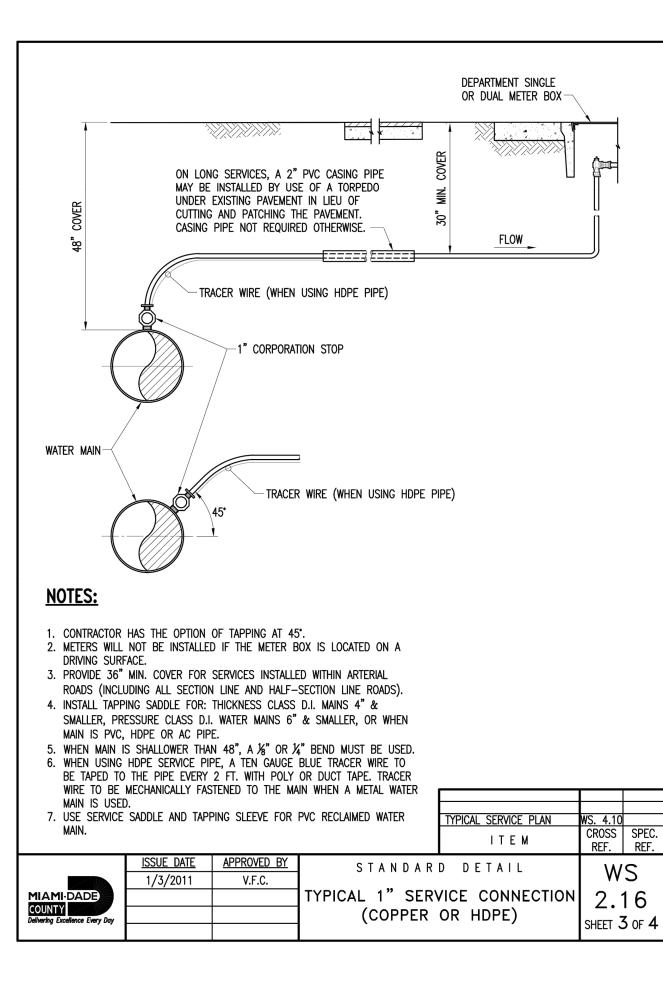
ed on a driving surface.	TYPICAL SERVICE PLAN 2'x4' METER VAULT	WS 4.10 WS 2.17			
FLAGS OF CONCRETE.		10 2.17			
G THE S3874 AMENDMENT	ITEM	CROSS REF.	SPEC. REF.		
STANDARD DETAIL			WS		
TYPICAL 2" SERVICE			2.16		
INSTALLATION W	ITH A 2"METER	SHEET 1	OF <b>4</b>		





### 3 TYPICAL 2" SERVICE WITH 1-1/2" METER PS1.2 NOT TO SCALE





#### **4** TYPICAL 1" SERVICE CONNECTION PS1.2 NOT TO SCALE

### NOTES:

1-. THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.

2-. GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.

3-. THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT. 4-. ADJUSTABLE PIPE SADDLE SUPPORT (GRINNELL FIG. 264, OR EQUAL) SIZED TO FIT CURVATURE OF DOUBLE DETECTOR CHECK VALVE ASSEMBLY, WITH GALVANIZED STEEL PIPE AND FLOOR FLANGE. ATTACH

FLOOR FLANGE TO CONCRETE SLAB WITH GALVANIZED EXPANSION BOLTS. 5-. THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY.

6-. PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH FITTINGS. PIPING 4" AND LARGER SHALL BE DUCTILE IRON PIPE WITH FLANGED FITTINGS. ALL PIPING SHALL BE IN ACCORDANCE WITH WASD CONSTRUCTION SPECIFICATIONS FOR DONATION WATER MAINS, PVC PIPING IS NOT ACCEPTED BY WASD.

7-. ALL OUTLETS SHALL BE PLUGGED WITH BRASS PLUGS.

8-. ALL ABOVE GROUND PIPING AND EQUIPMENT, EXCEPT FOR BRASS AND STAINLESS STEEL PORTIONS, SHALL BE FINISHED WITH BLUE ENAMEL PAINT (KOP-COAT 0508 LEAD-FREE) IN ACCORDANCE WITH DEPARTMENT STANDARDS.

9.- COPPER ALLOY MATERIALS SHALL BE "LEAD FREE" AND IN FULL COMPLIANCE WITH THE FEDERAL "REDUCTION OF LEAD IN DRINKING WATER ACT".

10-. FOR A LIST OF BACKFLOW PREVENTERS APPPROVED TO BE USED IN WASD FACILITIES, REFER TO PRE-APPROVED PRODUCT LIST SHEET NUMBER 4.6 AND/OR THE UNIVERSITY OF SOUTHERN CALIFORINA FOUNDATION LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES AT WWW.USCLIST.COM. OR fccchr.usc.edu/list.html

				GUARD POST DETAIL	WS 4.5	
				ITEM	CROSS REF.	SPEC. REF.
	<u>ISSUE DATE</u>	APPROVED BY	S T A N D A R		14	'S
	8/29/2012	F.A.	REDUCED PRE		**	2
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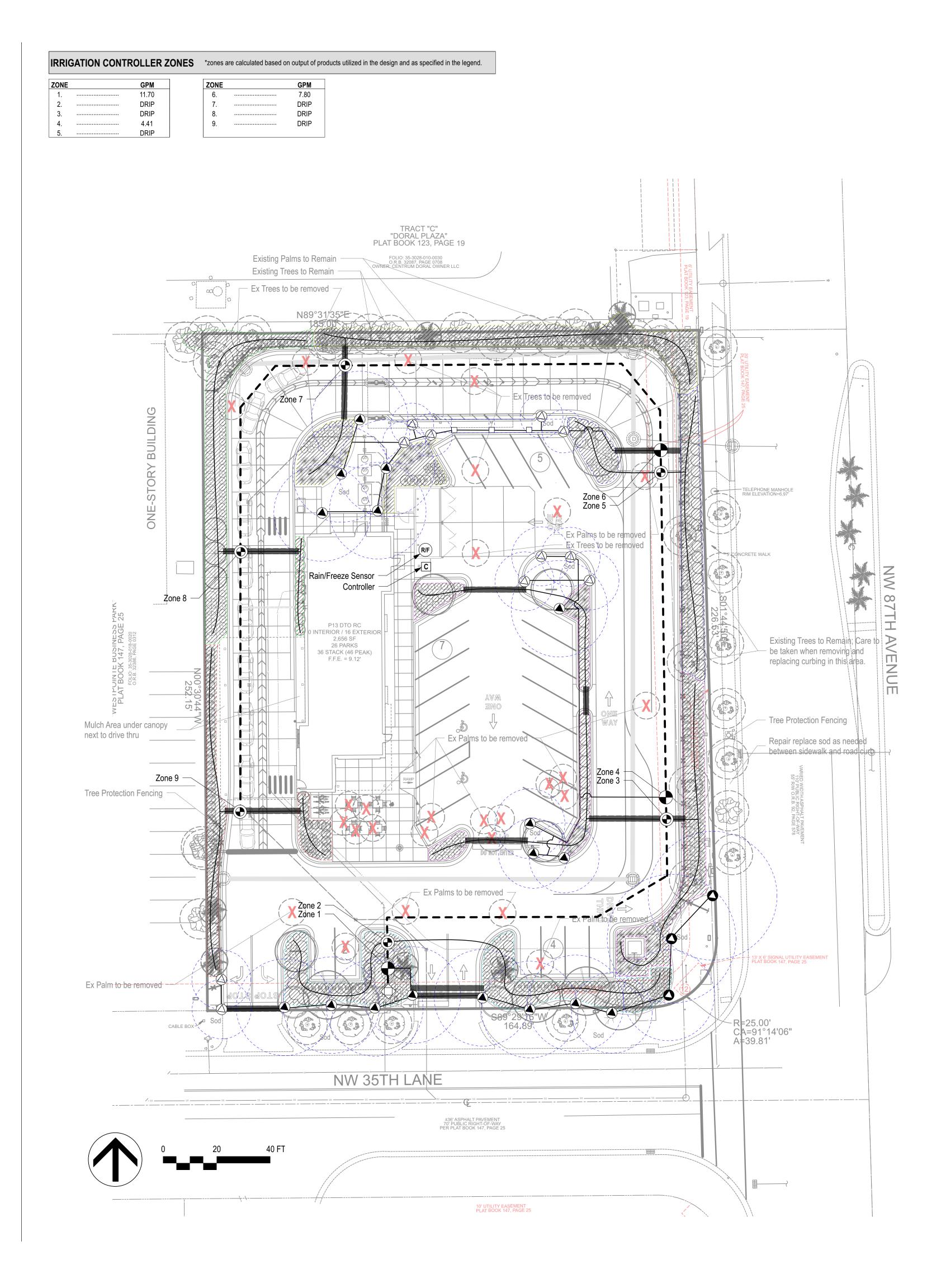
### **BACKFLOW PREVENTER NOTES**

PS1.2 NOT TO SCALE

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**PS-1.2** 

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<b>IRRIGATION LEGEND &amp;</b>	DDODUCT	SDEC	MUCTI	
IKRIGATION LEGEND &	FRUDUCI	SPEC -	WUSIC	JJE KAINDI

IRRIGATION LEGEND & PRODUCT SPEC - MUST USE RAINBIRD PRODUCTS			
SYMBOLE:	PRODUCT:	SPECIFICATION:	
Μ	IRRIGATION METER	SEE CIVIL PLANS; PROVIDED BY THE GENERAL CONTRACTOR	
S	1" MANUAL SHUTOFF VALVE	1 REQUIRED	
BF	BACKFLOW PREVENTER	AS REQUIRED BY CITY; SEE CIVIL PLANS	
PR	1" PRESSURE REGULATOR	AS REQUIRED	
EV	1" ELECTRICAL MASTER VALVE	1 REQUIRED	
<i>*/////</i>	LANDSCAPE DRIPLINE	RAINBIRD XFD-06-18	
	SPRAY: RVAN SIDE STRIP NOZZLE	RAINBIRD RD1800-S-P45-RVANLCS or (RCS)	
$\bigcirc$	SPRAY: RVAN14 NOZZLE - 45°-270° SPRAY - 8'-14' RADIUS	RAINBIRD RD1800-S-P45-R-VAN14	
	SPRAY: RVAN18 NOZZLE - 45°-270° SPRAY - 13'-18' RADIUS	RAINBIRD RD1800-S-P45-R-VAN18	
O	SPRAY: RVAN24 NOZZLE - 45°-270° SPRAY - 17'-24' RADIUS	RAINBIRD RD1800-S-P45-R-VAN24	
	1" ELECTRIC VALVE	RAINBIRD 100-PGA	
	1" DRIP CONTROL ZONE VALVE	RAINBIRD XCZ-100-PRB-COM	
С	AUTOMATIC CONTROLLER	RAINBIRD ESP-ME3 (120V required); expansion modules as needed	
R/F	RAIN/FREEZE SENSOR	RAINBIRD WR2-RFC	
	1" LATERAL LINE	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS - 1" LATERAL LINES	
	1.5" MAINLINE	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS - 1.5" MAINLINE	
	IRRIGATION SLEEVE - 4" SCH 40 PVC	4" SCH 40 PVC SLEEVE UNDER PAVEMENT installation of sleeves by contractor in location as shown on plan.	

#### **IRRIGATION NOTES**

- Irrigation contractor is responsible for locating and protecting all underground utilities prior to trenching.
   Pressure regulator required by local code if static water pressure at point of connection for site is greater than 80 psi.
- Irrigation meter and backflow preventor to be provided by the General Contractor.
   All valves to be located in valve box with cover, at grade.
- All valves to be located in valve box with corol, at grade.
   When possible, locate box in grassed area.
   Valve box shall be lined with a min. 3" depth, 3/4" washed stone.
   Automatic controller to be located in the storage room; 120VAC required.
- Rain/freeze sensor shall be located on the trash enclosure respectively.
- Rain/freeze Sensor to be located free from obstructions and exposed to the elements. 6. All pipes, automatic valves, backflow preventor, manual valve and meter to be located within property lines. Shown outside on drawing for clarity only.

- 45 psi required per rotor station, 30 psi required per spray station, 40 psi required per drip station. All spray and rotor bodies to have PRS (In-stem pressure regulation) as indicated in the legend.
   Pop-up height as follows: 4" or 6" in Turf Zones, 12" in Shrub Zones, and 12" in Seasonal/color beds.
   RainBird MPR 5000 Rotor Nozzle size is indicated on each individual symbol used on the drawing; Contractor must install nozzles types as indicated.
- 10. Sleeves to be located and exposed by the General Contractor prior to start of irrigation installation. 4" SCH 40 PVC sleeves; locations as shown on drawing.
- Extend sleeve 18" beyond back of curb or pavement. 11. 1.5" mainlines (class 200 PVC pipe) shall have a minimum 18" of cover.
- 12. Lateral and sub-main pipe, (class 200 PVC pipe) shall have a minimum 12" and maximum of 18" cover.
- 13. No rocks, boulders, or other extraneous materials shall be used in backfilling trenches.
- Threaded joints to be coated with Teflon Tape or Liquid Teflon.
   All lines to be thoroughly flushed before installation of irrigation heads.
- 16. Contractor must use products specified on this drawing, unless otherwise approved by the Landscape Architect. Refer to the drawing and the Irrigation Legend for product specs.
- 17. The Irrigation System is to be installed as designed; unless otherwise approved by the Landscape Architect.
- All pipe, valves, drip, spray heads, rotors, controllers, and sensors are to be installed as per manufacturers specifications. For any RainBird products or installation questions call Donn Mann (520)-904-1146.
   Irrigation Contractor shall provide an Irrigation As-Built drawing to the Landscape Architect. This drawing shall be sent overnight within 24 hours of installation completion.
- 20. Prior to opening, but no later than one week after opening, the Irrigation Contractor shall perform an irrigation walk-thru inspection with the Store Operator. System shall be fully functional prior to walk-thru inspection.

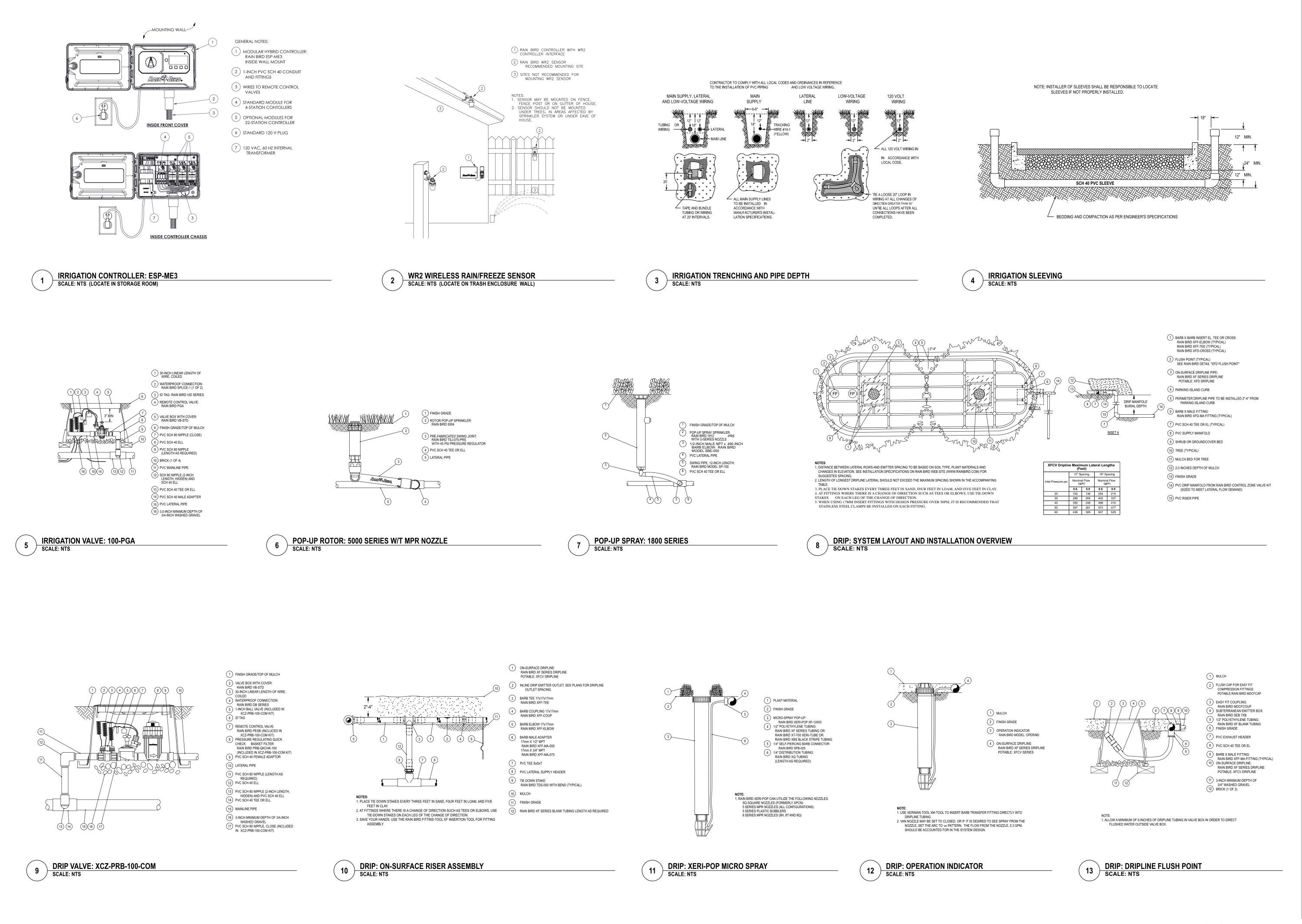


5200 Buffington Road Atlanta, Georgia 30349-2998



Manley Land Design, Inc. 51 Old Canton Street Alpharetta, Georgia 30009 770.442.8171 tel

CHICK-FIL-A	EAST DORAL	8705 NW 35th Lane Doral, FL 33172
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Chick-fil-A 5200 Buffington Road Atlanta, Georgia 30349-2998 manie LAND DESIGN Landscape Architecture Manley Land Design, Inc. 51 Old Canton Street Alpharetta, Georgia 30009 770.442.8171 tel Ð 4 Ω **N** S 5 5th 3317 Ď S S ≥⊓ Ζ S n ŭ Õ 0 ωΩ FSU# 5069 **REVISION SCHEDULE** NO. DATE BY DESCRIPTION MLD PROJECT # 2022110 PRINTED FOR DATE 8.4.22 DRAWN BY MB Information contained on this drawing and in all digital files produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives. SHEET Irrigation Details SHEET NUMBER L-201

City of Doral PLAN-2208-0028 Chick-Fil-A Site Plan Application 2

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#### **IRRIGATION COMPONENTS AND/OR SYSTEMS**

#### PART 1 – GENERAL

#### SECTION INCLUDES

Work to be performed under this Section shall consist of furnishing all labor and materials necessary to construct a complete working and tested sprinkler irrigation system as per all drawings and specifications.

#### REFERENCES

- A. ANSI American National Standards Institute
- B. ASIC American Society of Irrigation Consultants: ASIC Grounding Guideline.
- C. ASSE American Society of Sanitary Engineering: ASSE 1013, 1015: Backflow Preventers, Pressure Reducers. D. ASTM – American Society of Testing and Materials
- E. IA The Irrigation Association: Main BMP Document.
- F. NFPA National Fire Protection Association: NFPA 70 National Electrical Code.
- G. UL Underwriters Laboratories: UL Wires and Cables.

#### PERFORMANCE REQUIREMENTS

installation completion.

- A. All work to be performed to current standards of SEI and of the local governing municipality.
- B. PVC Pipe: Must be stamped with certified NFS. C. Contractor shall be responsible to obtain all necessary permits and to comply with electrical
- company requirements. D. No substitutions of materials are allowed unless approved by Landscape Architect.
- QUALITY ASSURANCE
- A. Contractor shall have considerable experience and demonstrate ability in the installation of irrigation system(s) of specified type(s) in a neat, orderly, and responsible manner in accordance with recognized standards of workmanship.
- B. All work shall be performed in accordance with the best standards of practice relating to the trade. C. Contractor shall provide an irrigation as-built drawing to the designer responsible for the irrigation plan. This drawing shall be overnighted to the respective party within 24 hours of

#### WARRANTY

A. Contractor shall provide a one year warranty that covers all workmanship and labor. B. Contractor shall provide a five year warranty that covers all materials.

#### PART 2 - PRODUCTS

#### PIPE AND FITTINGS

- A. Material: PVC
- B. Pressure Pipe: Class 200.
- C. Lateral Pipe: Class 200, Polyethylene for Northeastern Climate.
- D. Fittings: Schedule 40, solvent welded or threaded. E. Risers: Schedule 80. threaded.

#### F. Sleeves: Schedule 40, minimum 4".

#### AUTOMATIC CONTROLLER

- A. Irrigation controller specifications include but are not limited to:
- 1. The controller shall be of a hybrid type that is microelectronic circuitry capable of fully automatic or manual operation.
- 2. All stations shall have the capability of independently obeying or ignoring the weather sensor as well as using or not using the master valve.
- 3. The controller shall have the capability of shutting off the system on rainy days.
- B. Control zone kit for drip zones with flows from 3 to 15 gpm (11.4 to 56.8 l/m), including control valve (CV) and pressure-regulating filter (PRF)
- 1. Control Valve (CV) component specifications include: a. Valve body and bonnet constructed of high impact, weather-resistant plastic, stainless steel and other chemical/ultra-violet resistant materials. b. One unit diaphragm constructed of durable Buna-N rubber with a clog resistant metering
- orifice. Inlet pressure rating of 15 to 150 psi (1.0 to 10.3 bar).
- . Pressure Regulating Filter (PRF) component specifications include: a. Compact "Y" filter body and cap configuration constructed of glass-filled, ultra-violet resistant polypropylene, with 150 psi (10.3 bar) operating pressure rating.
- b. 200 mesh (75 micron) filter screen constructed of stainless steel. Normally-open pressure regulating device with preset outlet pressure of 40 psi (2.8 bar).
- 3. Regulated pressure of 40 psi (2.8 bar). C. Low flow control zone kit for drip zones with flows from 0.2 to 5.0 gpm (0.8 to 18.9 l/m), including
- Low Flow Valve (LFV) and Pressure-Regulating Filter (PRF).
- 1. Low flow valve (LFV) component specifications include:
- a. Valve body and bonnet constructed of high impact, weather-resistant plastic, stainless steel
- and other chemical/ultra-violet resistant materials. b. One unit diaphragm constructed of durable Buna-N rubber material with a clog resistant
- metering orifice.
- c. Inlet pressure rating of 15 to 150 psi (1.0 to 10.3 bar).
- 2. Pressure regulating filter (PRF) component specifications include: a. Compact "Y" filter body and cap configuration constructed of glass-filled, ultra-violet
- resistant polypropylene, with 150 psi (10.3 bar) operating pressure rating.
- b. 200 mesh (75 micron) filter screen constructed of stainless steel.
- Normally-open pressure regulating device with preset outlet pressure of 30 psi (2.1 bar). . Regulated pressure of 30 psi (2.1 bar).

#### POP-UP SPRINKLERS

A. Irrigation spray body for small turf areas (2.5-24 feet (0.8-7.3m) with a 30 psi (2.0 bar) pressure

- regulating device specifications include but are not limited to: 1. Parts and components to withstand harsh operating conditions using chemically treated recycled water (reclaimed/non-potable), dirty water containing grit, debris, and other particulates, high operating pressures common in commercial irrigation and resistant to ultra-violet light.
- 2. Pressure-activated, co-molded soft elastomer wiper seal composed of three wipers and a base seal to ensure a positive seal without excess "flow-by" which enables more heads to be installed on the same valve.
- 3. Recessed debris pockets located in the base of the spray body to prevent recirculation of harmful debris during operation
- 4. Shall include a check valve to prevent low head drainage of up to 14 feet (4.3 m); 6 psi (0.4
- 5. Shall include technology built into the stem to prevent water loss and alert maintenance when a spray nozzle is removed
- 6. Flow by rating of 0 at 15 psi (1.0 bar) or greater, 0.5 gpm (0.1 m3/h; 0.03 l/s) otherwise. 7. Shall include <sup>1</sup>/<sub>2</sub>" (15/21) NPT female threaded bottom inlet.
- 8. The spray body, stem, nozzle, and screen shall be constructed of heavy-duty and ultra-violet
- resistant plastic B. Irrigation spray body for small turf areas (2.5-24 feet (0.8-7.3m) with a 45 psi (3.1 bar) pressure regulating device specifications include but are not limited to:
- 1. Parts and components to withstand harsh operating conditions using chemically treated recycled water (reclaimed/non-potable), dirty water containing grit, debris, and other particulates, high operating pressures common in commercial irrigation and resistant to ultra-violet light.
- 2. Pressure-activated, co-molded soft elastomer wiper seal composed of three wipers and a base seal to ensure a positive seal without excess "flow-by" which enables more heads to be installed on the same valve.
- 3. Recessed debris pockets located in the base of the spray body to prevent recirculation of
- harmful debris during operation. 4. Shall include a check valve to prevent low head drainage of up to 14 feet (4.3 m); 6 psi (0.4
- 5. Shall include technology built into the stem to prevent water loss and alert maintenance when a
- spray nozzle is removed.
  - 6. Flow by rating of 0 at 15 psi (1.0 bar) or greater, 0.5 gpm (0.1 m3/h; 0.03 l/s) otherwise. 7. Shall include  $\frac{1}{2}$  (15/21) NPT female threaded bottom inlet.
  - 8. The spray body, stem, nozzle, and screen shall be constructed of heavy-duty and ultra-violet resistant plastic.

### SPRAY NOZZLES

- m), maximum 30 psi (2.1 bar) specifications include but are not limited to:
- 2. Shall contain a stainless steel flow and radius adjustment screw allowing up to 25% radius reduction.
- 3. Nozzle shall have a precipitation rate that is matched across sets and patterns of spray nozzles
- 4. Shall include color coding marking on top of nozzle for easy identification of spray radius. B. Dual orifice fixed arc nozzle for small turf areas (5-15 feet (1.7-4.6 m), maximum 30 psi (2.1 bar) specifications include but are not limited to: 1. Shall be constructed of ultra-violet resistant plastic.
- reduction. with a matched precipitation rate between sets and matched flow and with other matched

- 2. Shall contain a stainless steel radius adjustment screw allowing reduction to 13 feet (4.0 m). . Shall have a matched precipitation rate of 0.60 in/hr (15.2 mm/hr). 4. Shall have a color coded radius reduction plug to allow for easy identification of fixed arc
- pattern.

- Shall be constructed of ultra-violet resistant plastic.

- 2. Shall contain a stainless steel flow and radius adjustment screw allowing up to 25% radius
- precipitation rate fixed spray nozzles up to 15 feet (4.6 m). 4. Shall include color coding marking on top of nozzle for easy identification of spray radius. C. Multi stream rotating nozzle for small turf areas (8-24 feet (2.4-7.4m), maximum 55 psi (3.8 bar)
- specifications include but are not limited to: 1. Shall be constructed of ultra-violet resistant plastic.

- up to 15 feet (4.6 m).
- - 3. The nozzle shall have dual orifices for both in-close watering and standard pattern watering

#### **ROTOR HEADS**

#### A. Pop-up rotor sprinkler for medium turf areas (25-47 feet (7.6-14.3 m), maximum 75 psi (5.2 bar) specifications include but are not limited to: 1. Shall have adjustable arc rotation of 40 to 360 degrees (0.7 to 6.3 rad) and reversing full circle

- 2. Shall have a flow shut-off device that is integrated into the flow path of the sprinkler. 3. Shall have a pressure-activated, multi-function wiper seal that protects internals from debris
- and assures positive pop-up and retraction.
- 4. Shall contain additional o-rings and seals for extra protection in "gritty" water. 5. Operating precipitation rate of 0.20 to 1.01 inches per hour (5 to 26 mm/h).
- Operating flow rate of 0.73 to 8.31 gpm (0.17 to 1.85 m3/h).
- 7. The body, stem, nozzle, and screen shall be constructed of heavy-duty and ultra-violet resistant plastic.
- 8. Shall include a 45 psi (3.1 bar) pressure regulating device to prevent high pressure misting to the nozzle stream 9. Shall include an internal check valve to prevent low head drainage of up to 7 feet (2.1 m) to
- prevent puddling, run-off and erosion. 10. Shall include a set of twelve interchangeable nozzles, 8 nozzles with 25 degree (0.4 rad) trajectory and 4 low-angle nozzles with 10 degree (0.2 rad) trajectory.

#### FLEXIBLE SWING PIPE

- A. Swing pipe specifications include but are not limited to:
- 1. Swing pipe shall be flexible black tubing constructed of linear low density polyethylene material with a wall thickness of 0.098" (0.3 cm) with a nominal inside diameter of 0.49" (1.2 cm). 2. Pipe shall be capable of a flow up to 8 gpm (0.5 l/s).

#### DRIPLINE

- A. Distribution tubing specifications include but are not limited to:
- 1. The blank tubing shall be manufactured from flexible polyethylene material with a wall thickness of 0.049" (1.2 mm), outside diameter of 0.634" (16.1 mm), and inside diameter of 0.536" (13.6
- 2. The tubing shall be dual-layered (brown over black).

#### INLINE EMITTER DRIPLINE

- A. Sub-surface inline emitter tubing specifications include but are not limited to:
- 1. The tubing shall be manufactured from flexible polyethylene material with wall thickness of 0.049" (1.2 mm), outside diameter of 0.634" (16 mm), and inside diameter of 0.536" (13.6 mm). 2. The tubing shall have factory installed pressure-compensating, inline emitters with a copper shield device installed every 12, 18, or 24 inches (30.5, 45.7, 61 cm) as indicated on
- construction drawings. 3. Operating pressure range of 8.5 to 60 psi (0.6 to 4.1 bar).
- 4. Operating emitter flow rates of 0.6 and 0.9 gph (2.3 l/hr and 3.5 l/hr).

#### DISTRIBUTION TUBING

- A. ¼" distribution tubing for emitters and other devices specifications include but are not limited to: 1. The blank tubing shall be extruded from ultra-violet resistant polyethylene resin materials with a wall thickness of 0.04" (1 mm), outside diameter of 0.250" (6.3 mm), and inside diameter of 0.170" (4.3 mm).
- 2. Operating pressure range from 0 to 60 psi (0 to 4.1 bar).

#### EMITTERS

- A. Point source emission device specifications include but are not limited to:
- 1. The emitter shall be constructed of ultra-violet resistant acetyl materials.
- 2. Shall have a pressure-compensating design to deliver a uniform flow throughout a pressure range of 15 to 50 psi (1.0 to 3.4 bar).
- 3. Flow rates that range from 0.5 to 2 gph (1.89 to 7.57 l/h) at a pressure range of 15 to 50 psi (1.0 to 3.4 bar).

#### VALVE BOX

- A. Valve boxes specifications include but are not limited to:
- 1. Shall be made of structural foam HPDE resin that is resistant to ultra-violet light, weather, moisture and chemical action of soils.
- 2. Lids shall be clearly marked with the words "IRRIGATION CONTROL VALVE" molded onto the
- 3. Lid colors are available in black, green and purple designating non-potable water use.

### EXCAVATION

### INSTALLATION

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	b.	С
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2.	Th	ord
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- D. Control Valves:
- E. Manual Drains:
- plans. G. Backflow Preventer:
- gravel drain sump.
- H. Valve Boxes
- sidewalks, or driveways.

- completed
- L. Drip Tubing

### BACKFILLING

- Owner

- INSPECTION

- directed.

- **RESTORATION AND CLEANING**
- sprinkler circuit.

### A. Fixed or variable arc matched precipitation rate spray nozzle for small turf areas (3-15 feet (.91-4.6

#### PART 3 - EXECUTION

A. Stake pipe and equipment layout for Owner's review and approval. Review does not relieve installer from coverage problems due to improper placement after staking. B. Excavate trenches for irrigation system pipe to provide minimum cover per plans and details. C. Barricade trenches that are left open overnight.

A. General: Plans are diagrammatic. Proceed with installation in accordance with the following: all stop and waste valves, backflow preventers, and other equipment required by local orities according to laws and regulations in order to make system complete. Coordinate with the General Contractor the responsible for installing the backflow preventer and other irrigation items at the connection point. Coordinate with the General Contractor the for exact location of the irrigation connection

roughly flush main lines before installing automatic control valves, and laterals before alling sprinklers. Flush supply lines thoroughly before installing backflow preventers or other regulating devices.

B. Piping: Assemble all mainline and lateral lines in accordance with manufacturer's

recommendations with no cul-de-sacs. Assure positive drainage. C. Sleeves: General Contractor shall install sleeves before concrete/paving work.

. Sleeves should be a minimum two times the diameter of the pipe passing through them. 2. General Contractor shall stub-up and flag sleeve locations for the Irrigation Contractors ease of

3. Sleeve locations shall be approximate to that shown on the Irrigation Plan.

1. Install one valve per valve box and provide 12 inches of expansion loop slack wire at all connections inside valve box.

1. Install per manufacturer's recommendations on upstream and downstream side of backflow preventers and at lowest point along main pressure pipe.

F. Quick-Coupling Valves:

1. Install using 1 inch PVC nipples and schedule 40 ells as detailed. Location as indicated on

1. Install assembly complete for irrigation system with 2 drain valves and 2 shut off valves per detail, local laws and regulations, and per manufacturer's specifications. 2. Install assemblies with drain valves in below grade installations. Provide open box floor with

Install over all remote control valves, manual control valves, zone shutoff valves, gate valves, or globe valves. Size to provide adequate room for maintenance. 2. Install boxes on level subgrade with proper drainage so that top of boxes are flush with finish grade material (sod, mulch, rock, etc.). Place parallel or perpendicular to adjacent curbs,

3. Place washed gravel aggregate in sump as shown on details.

I. Automatic Controller 1. Properly ground controller per local laws and regulations. Make all control wire connections to automatic controller. Coordinate controller installation with other electrical work. 2. Connect remote control valves to controller in numerical sequence as shown on Plans.

J. Wire and Electrical Work

1. Use electrical control and ground wire suitable for sprinkler control cable. 2. Provide 120-volt power connection (by others) to automatic controller to conform to local codes, ordinances and authorities having jurisdiction.

3. Low Voltage Wiring: a. Bury control wiring between controller and electric valves in pressure supply line trenches, strung as close as possible to main pipe lines with such wires to be consistently located below and to one side of the pipe, or in separate trenches.

b. Bundle all 24-volt wires at 10-foot intervals and lay with pressure supply line pipe to one side of trench.

Install control wire for each control valve. d. Run 2 spare #14-1 wires from controller pedestal or electric control valve on each and every leg of mainline

K. Sprinkler Heads, Emitters, Rotators, and Rotors

1. Flush circuit piping with full head of water and install sprinklers after hydrostatic text is

2. Adjust nozzles to allow for adequate coverage and to minimize overspray onto walks, roads, driveways, and buildings.

3. Stake emitter tubing with 1/4" Rainbird® TS-025 tubing stakes. 4. Adjust heads to be plumb and flush with finish grades, even with top of soil level or top of material level after completion of grading, seeding, sodding, and rolling of grass.

1. Install all drip tubing in locations shown on the Irrigation Plan. To be laid out and installed per the irrigation drip details (sheet L-2.1).

2. Install flush caps as indicated on details.

3. Install drip indicator on all drip zones.

M. Thrust Blocks and/or Joint Restraints 1. Install on pipe sized 2" or larger wherever the main pipe line:

a. Changes any direction at tees, angles, and crosses vertical and horizontal.

b. Changes at reducers. Stops at a dead-end.

d. Valves at which thrust develops when closed.

A. Do not begin backfilling operations until system tests and approvals have been completed. B. Bed all pipe a minimum of 2 inches. Backfill to 6 inches above pipe with soil free of rocks over 1-inch diameter, debris, or organic matter. Backfill remainder of trench with soil of like quality to adjacent areas. Haul away all material not suitable for backfill.

C. Compact backfill in 6-inch lifts thoroughly to prevent settling damage to grades or plant material. Leave trenches slightly mounded to allow for settlement after backfilling is completed. Low areas and damage caused by settling will be repaired by Contractor at no additional cost to the Project or

D. Prevent soil, rocks, or debris from entering pipes or sleeves.

FLUSHING AND TESTING

A. Flushing: After piping, risers, and valves are in place and connected, but prior to installation of sprinkler heads, thoroughly flush piping system under full head of water pressure from dead end fittings. Maintain flushing for 5 minutes through furthermost valves. Cap risers after flushing.

A. Arrange for Owner's presence 48 hours in advance of inspection walk-through. B. Examine areas and conditions under which work of this section is to be performed and ensure a complete and operating installation prior to scheduling a walk-through. C. Operate each zone in its entirety for Owner at time of walk-through and open all valve boxes as

D. Expose all drip emitters under operations for observation by Owner to demonstrate they are performing and installed as designed prior to placing of mulch material. Schedule separate walk-through as necessary.

E. As necessary Owner will generate a list of items to be corrected prior to Final Acceptance.

A. Flush dirt and debris from piping before installing sprinklers and other devices.

B. Adjust automatic control valves to provide flow rate of rated operating pressure required for each C. Restore all damaged areas to original condition unless otherwise shown on plans at no additional cost to the Project or Owner.



Chick-fil-5200 Buffington Road Atlanta, Georgia 30349-2998



Manley Land Design, Inc. 51 Old Canton Street Alpharetta, Georgia 30009 770.442.8171 tel

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**REVISION SCHEDULE** 

NO. DATE BY DESCRIPTION

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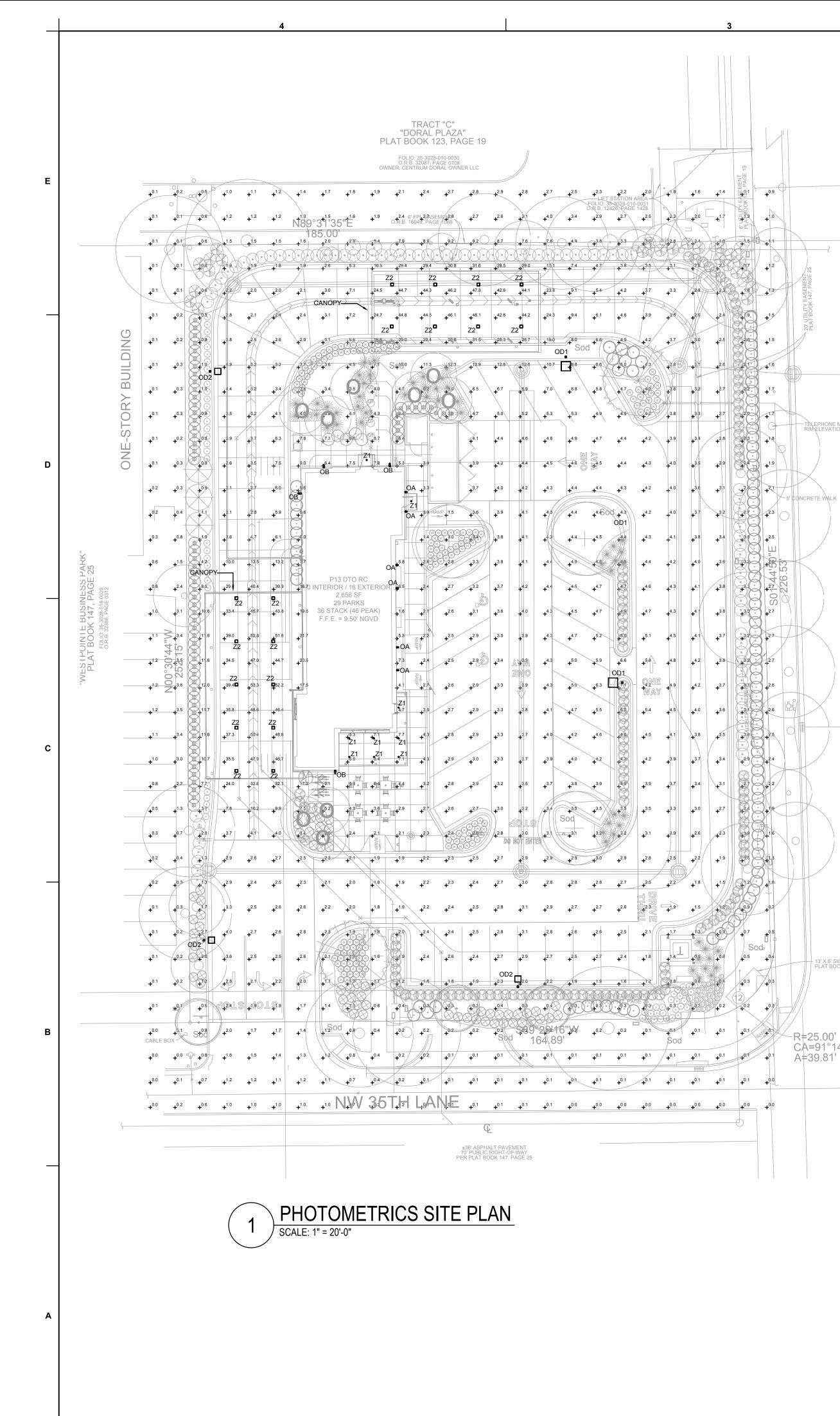
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SHEET NUMBER

Irrigation Specifications

L-202

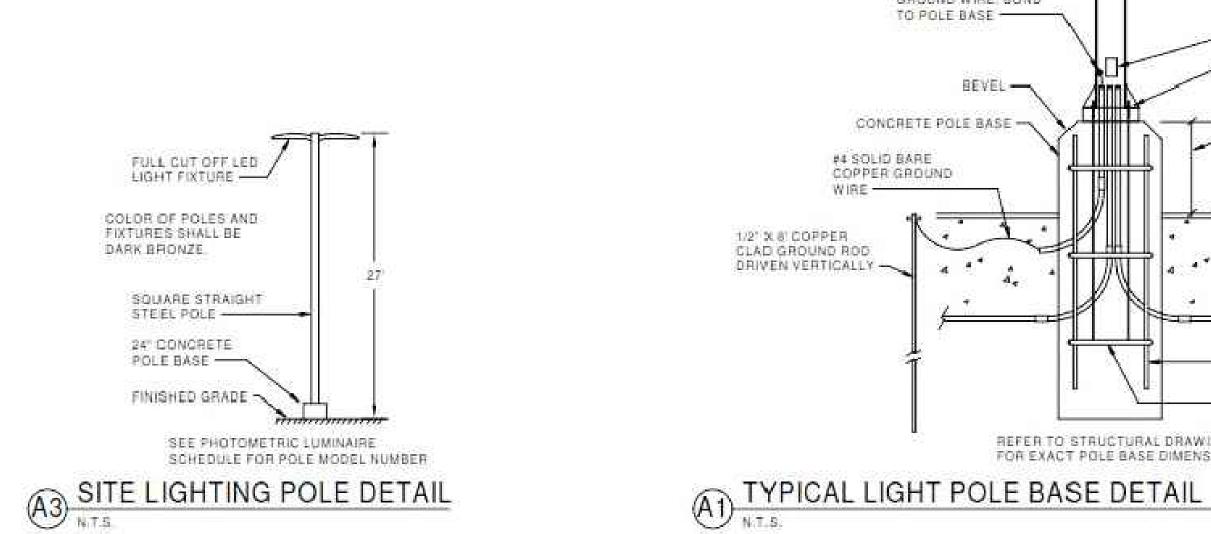
City of Doral PLAN-2208-0028 Chick-Fil-A Site Plan Application



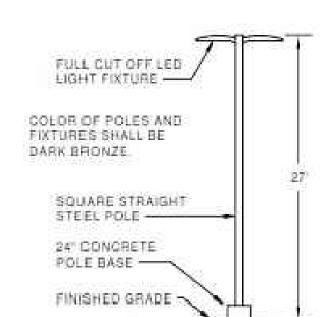
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TYPE DESCRIPTION		MANUFACTURER / MODEL#	VOLTAGE			WATTAGE	MOUNTING	REMARKS
ITPE	DESCRIPTION	MANOFACTORER / MODEL#	VOLTAGE		ΤΥΡΕ	WATTAGE	WOONTING	REIVIARKS
OD1	AREA LIGHT ON 25' POLE, SINGLE HEAD, TYPE 5WQ DISTRIBUTION	COOPER #GALN-SA8C-740-2-5WQ-BZ	208 VOLT	-	LED	429	POLE	
OD2	AREA LIGHT ON 25' POLE, SINGLE HEAD, TYPE 4W DISTRIBUTION WITH HOUSE SIDE SHIELD	COOPER #GALN-AF03-740-2-SL3-HSS-BZ	208 VOLT	-	LED	166	POLE	
POLE	25' SQUARE NON-TAPERED STEEL POLE		-	-	-	-	-	
ΟΑ	4" WALL MOUNTED CYLINDER WITH TOP COVER	PROGRESS #P5675-3130K	120 VOLT	-	LED	33.9	WALL	
ОВ	ROADWAY ASYMMETRICAL FLAT BEAM DISTRIBUTION FIXTURE	BEGA #66 456 K4 BRZ	UNIVERSAL	-	LED	29	WALL	
Z1	4" SURFACE DOWNLIGHT	HALO #SLD405930WH 8 40 WH	120 VOLT	-	LED	12	SURFACE	
Z2	16" RECESSED CANOPY LIGHT	LSI #CRUS SC LED LW 40 UE WHT	UNIVERSAL	-	LED	73	RECESSED	



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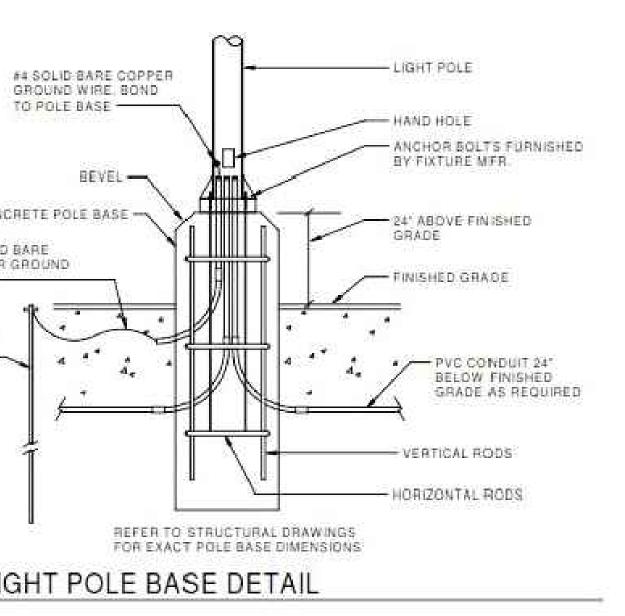
13' X 6' SIGNAL UTILITY EASEMEN PLAT BOOK 147, PAGE 25

CA=91°14'06"

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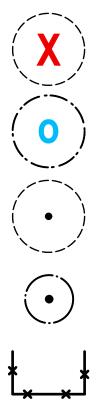
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### LEGEND



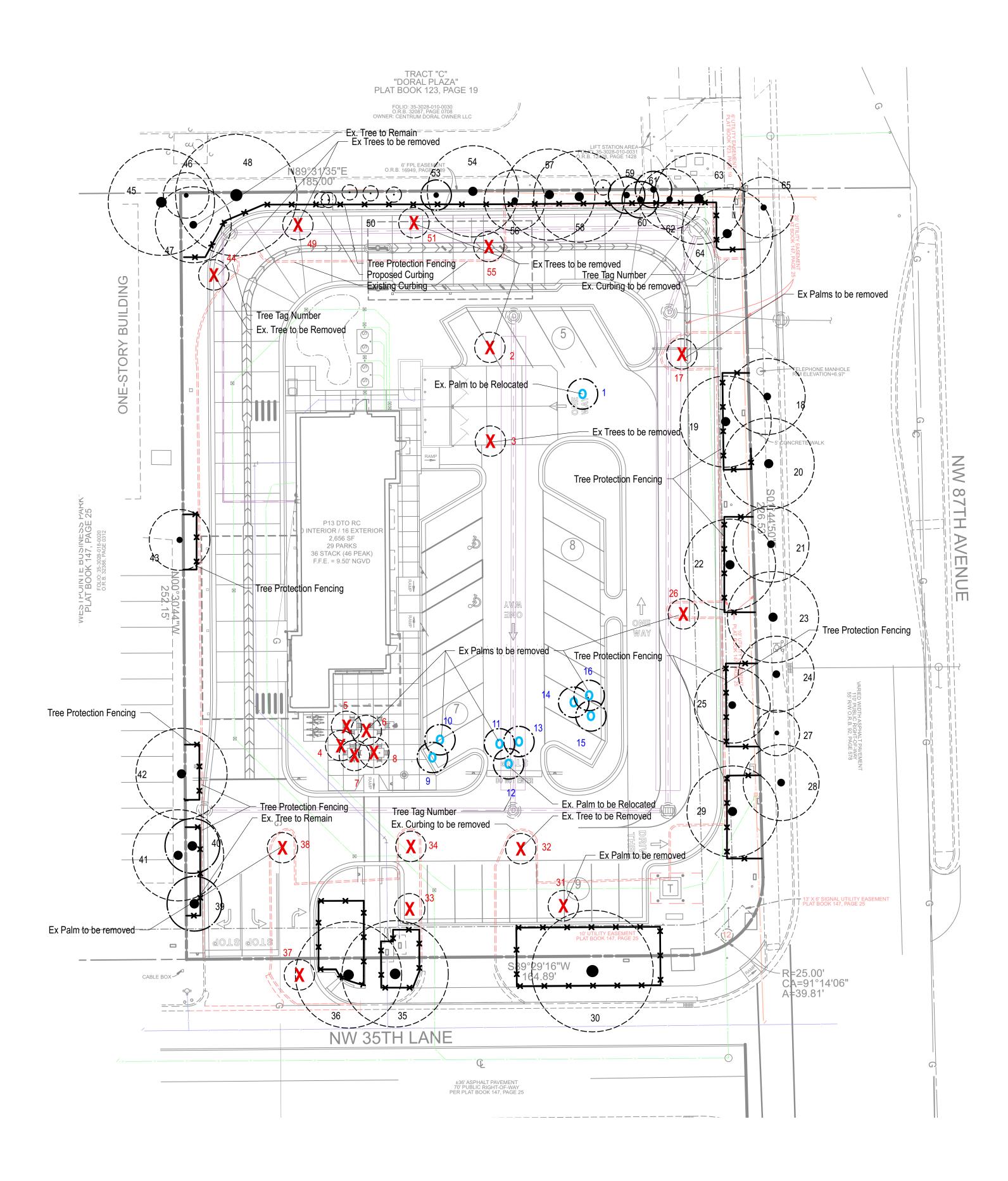
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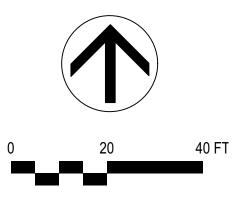
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TREE PROTECTION FENCING





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### TREE REMOVAL SUMMARY

19 TREES REMOVED (11 PALM, 8 HARDWOOD) 2 PYGMY DATE PALM 4 QUEEN PALM 5 WASHINGTONIA PALM 4 MAHOGANY (73.5" removed)

TREE RELOCATE SUMMARY

9 PALMS RELOCATED

No.	
HORTICULTURAL	
——————————————————————————————————————	

4613 N. University Dr. #312 Coral Springs, FL 33067 Location: 8705 NW 35th Lane Doral, Florida

Genus Species DBH (inches) Spread (feet) Condition (%) Height (feet) Status Washingtonia robusta Swietenia mahogoni Swietenia mahogoni Washingtonia robusta Relocated Remove 18.5 30 30 25 35 Remove 17.5 35 35 Remove 35 Remove 15 35 Remove 15 65 35 Remove 35 Remove 15 65 35 Relocated Phoenix roebelenii 8 Remove 10 Quercus virginiana 25 10.5 25 Quercus virginiana 30 Quercus virginiana 25 30 Quercus virginiana 20 25 Quercus virginiana 35 30 Quercus virginiana 30 Quercus virginiana 25 25 Quercus virginiana 25 Phoenix roebelenii 8 Remove 10 Quercus virginiana 15 Quercus virginiana 20 25 Quercus virginiana 30 Quercus virginiana 35 40 Quercus virginiana Remove 35 Syagrus romanzoiana Syagrus romanzoiana Syagrus 20 Remove 22 Remove 18 22 Remove 18 romanzoiana Quercus virginiana 30 Quercus virginiana 30 Quercus virginiana Remove 25 Syagrus romanzoiana Syagrus romanzoiana Syagrus romanzoiana Swietenia swietenia 16 Remove 20 22 45 mahogoni Swietenia mahogoni Swietenia 40 30 mahogoni Swietenia Remove mahogoni Swietenia mahogoni Podocarpus macrophyllus Quercus virginiana Swietenia mahogoni Quercus virginiana Remove Swietenia mahogoni Quercus virginiana Remove TAG LOST NOT USED NUMBER -----Veitchia arecina Swietenia mahogoni Swietenia Remove mahogoni Swietenia mahogoni Swietenia mahogoni Swietenia 45 mahogoni Sabal palmetto Sabal palmetto 18 Sabal palmetto Swietenia Swietenia Swietenia mahogoni Swietenia mahogoni Swietenia mahogoni FL9547A 
 Condition ratings assigned in accordance with
 Palms Height Measured in Feet of Clear Trunk (CT)
 10th addition

4 LIVE OAK (55" removed)

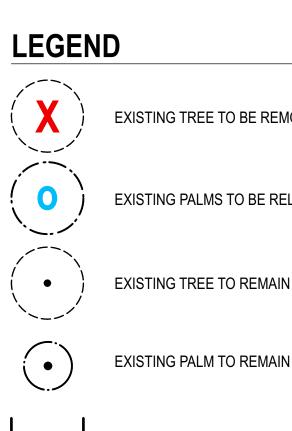
9 WASHINGTONIA PALM TO BE RELOCATED

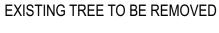
Guide for Tree



	YIIIY SOUTHING		
	MLD PROJECT #	2022110 PERMIT	
	DATE	10/20/22	
	DRAWN BY	AN	
PERMIT	Information contained or produced for above nam any manner without expr authorized project represent SHEET <b>Tree Dis</b>	ed project may no ess written or ver sentatives.	ot be reproduced in bal consent from
	SHEET NUMBER	L-	001



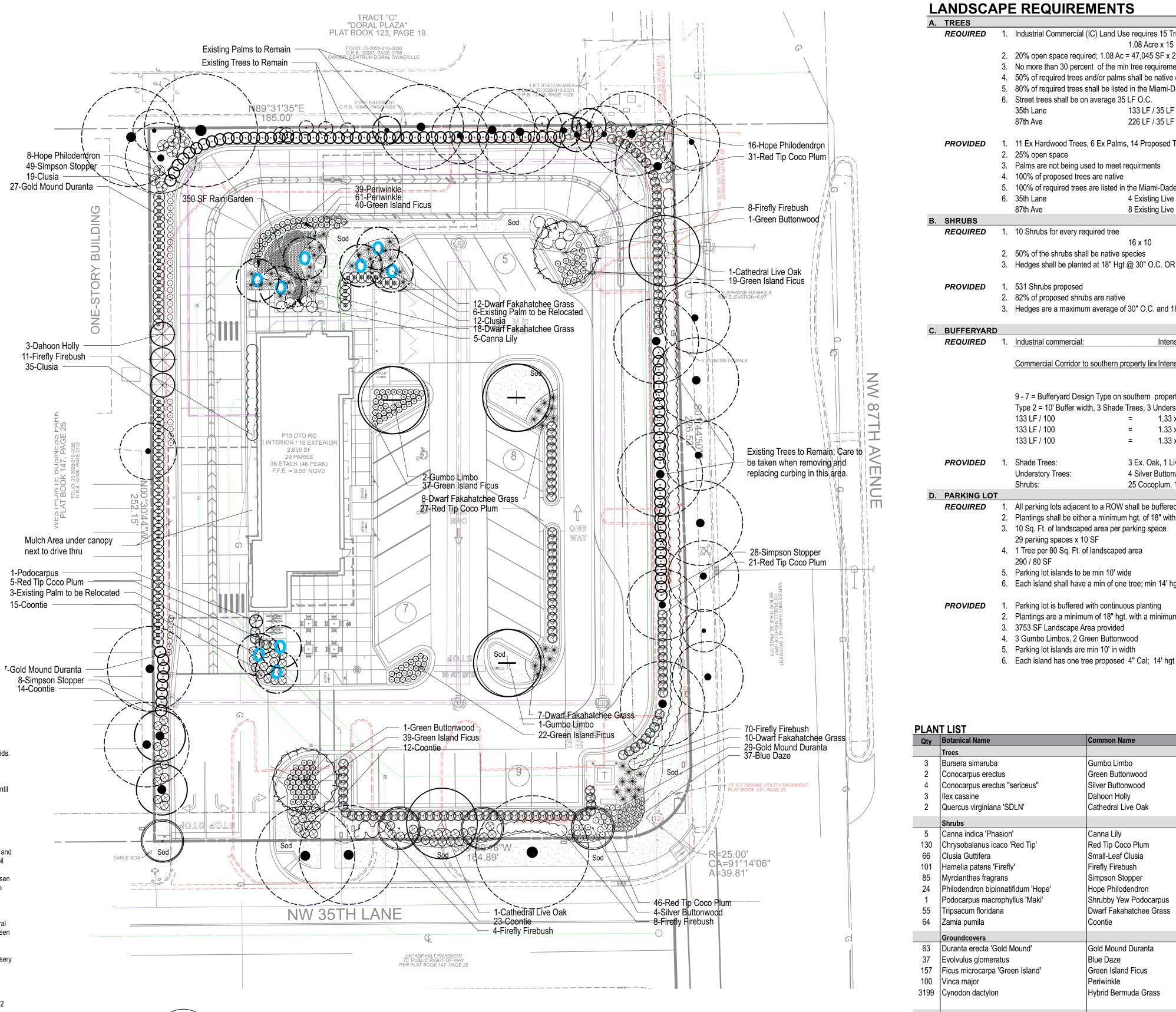




EXISTING PALMS TO BE RELOCATED

**EXISTING TREE TO REMAIN** 

TREE PROTECTION FENCING





- 1. Landscape Contractor to read and understand the Landscape Specifications prior to finalizing bids. The Landscape Specifications shall be adhered to throughout the construction process.
- 2. Contractor is responsible for locating and protecting all underground utilities prior to digging.
- 3. Contractor is responsible for protecting existing trees from damage during construction. 4. All tree protection devices to be installed prior to the start of land disturbance, and maintained until final landscaping.
- 5. All tree protection areas to be protected from sedimentation.
- 6. All tree protection fencing to be inspected daily, and repaired or replaced as needed.
- 7. No parking, storage or other construction activities are to occur within tree protection areas. 8. All planting areas shall be cleaned of construction debris (ie. concrete, rock, rubble, building
- materials, etc) prior to adding and spreading of the topsoil. 9. General Contractor is responsible for adding a min of 4" clean friable topsoil in all planting beds and
- all grassed areas. Graded areas to be held down the appropriate elevation to account for topsoil depth. See Landscape Specifications for required topsoil characteristics. 10. In all parking lot islands, the General Contractor is responsible to remove all debris, fracture/loosen
- subgrade to a min. 24" depth. Add topsoil to a 6"-8" bermed height above island curbing; refer to landscape specifications and landscape island detail. 11. Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site
- conditions, verify elevations, utility locations, irrigation, approve topsoil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.
- 12. Any deviations from the approved set of plans are to be approved by the Landscape Architect. 13. Landscaping shall be installed in conformance with ANSI Z60.1 the "American Standard for Nursery Stock" and the accepted standards of the American Association of Nurserymen.
- 14. Existing grass in proposed planting areas shall be killed and removed. Hand rake to remove all rocks and debris larger than 1 inch in diameter, prior to adding topsoil and planting shrubs.
- 15. Soil to be tested to determine fertilizer and lime requirements prior to laying sod. 16. Annual and perennial beds: add min. 4 inch layer of organic material and till to a min. depth of 12
- inches. Mulch annual and perennial beds with 2-3 inch depth of mini nuggets. 17. All shrubs beds (existing and new) to be mulched with a min. 3 inch layer of mulch (double shredded
- hardwood mulch). 18. Planting holes to be dug a minimum of twice the width of the root ball, for both shrub and tree. Set plant material 2-3" above finish grade. Backfill planting pit with topsoil and native excavated soil.
- 19. Sod to be delivered fresh (Cut less than 24 hours prior to arriving on site), laid immediately, rolled, and watered thoroughly immediately after planting. Edge of sod at planting beds are to be "V" trenched; see Landscape Details.
- 20. Any existing grass disturbed during construction to be fully removed, regraded and replaced. All tire marks and indentions to be repaired.
- 21. Water thoroughly twice in first 24 hours and apply mulch immediately. 22. The Landscape Contractor shall guarantee all plants installed for one full year from date of acceptance by the owner. All plants shall be alive and at a vigorous rate of growth at the end of the guarantee period. The Landscape Contractor shall not be responsible for acts of God or vandalism. See Landscape Specifications for Warranty requirements/expectations.
- 23. Any plant that is determined dead, in an unhealthy, unsightly condition, lost its shape due to dead branches, or other symptoms of poor, non-vigorous growth, shall be replaced by the Landscape Contractor. See Landscape Specifications for warranty requirements/expectations.
- 24. Site to be 100% irrigated in all planting beds and grass area by an automatic underground Irrigation System. Irrigation as-built shall be provided to the Landscape Architect within 24 hours of irrigation install completion.
- 25. Stake all evergreen and deciduous trees as shown in the planting detail and as per the Landscape Specifications.
- 26. Remove stakes and guying from all trees after one year from planting.

	3		
			CITY OF DORAL, FL
mercial (IC) Land Us	e requires 15 Trees/Ac		
( )	1.08 Acre x 15	=	16 Trees
ce required; 1.08 Ac		=	9409 SF
	n tree requirements shall be met by palm ti		
		663	(10 × 30 % - 3)
•	shall be native $(16 \times 50\% = 8)$		
	d in the Miami-Dade Landscape Manual		
all be on average 35			
	133 LF / 35 LF	=	4 Street Trees
	226 LF / 35 LF	=	7 Street Trees
od Trees. 6 Ex Palms	s, 14 Proposed Trees, 9 Relocated Palm	=	40 Trees
ce	,	=	
being used to meet r	requirments		
sed trees are native	equiments		
red trees are listed in	the Miami-Dade Landscape Manual		
	4 Existing Live Oak	=	4 Trees
	8 Existing Live Oak	=	8 Trees
every required tree			
<i>y</i>	16 x 10	=	160 Shrubs
ubs shall be native s		=	80 Native. Shrubs
	@ 30" O.C. OR 36" hgt @ 48" O.C.		
e planteu at to rigi	@ 50 0.C. OK 50 Hgt @ 48 0.C.		
oposed		=	531 Shrubs
ed shrubs are native		=	435 Native Shrubs
maximum average of	f 30" O.C. and 18" Hgt		
mercial:	Intensity Factor:		
	9	_	
orridor to southern n	roperty line Intensity Factor:		
	7	_	
	Ĩ		
1.D. 1. T.			
• •	southern property line	=	Buffer Yard Type 2
uffer width, 3 Shade	Trees, 3 Understory, 30 Shrubs per 100 LF		
	= 1.33 x 3	=	4 Shade Trees
	= 1.33 x 3	=	4 Understory Trees
	= 1.33 x 3	=	40 Shrubs
	3 Ex. Oak, 1 Live Oak	=	4 Shede Trees
200:	4 Silver Buttonwood		
es:		=	4 Understory Trees
	25 Cocoplum, 11 Coontie, 12 Firebush	=	70 Shrubs
adjacent to a ROW	shall be buffered by a continuous planting		
be either a minimun	n hgt. of 18" with 30" spacing OR 36" hgt. v	vith 4	18" Spacing
indscaped area per p	arking space		
ices x 10 SF		=	290 SF Landscape Area
			· · · · · · · · · · · · · · · · · · ·
So, Ft. of landscaped	area		
Sq. Ft. of landscaped	area	_	1 Troos
		=	4 Trees
inds to be min 10' wi	de	=	4 Trees
inds to be min 10' wi		=	4 Trees
nds to be min 10' wie all have a min of one	de e tree; min 14' hgt and 4" cal	=	4 Trees
inds to be min 10' wi	de e tree; min 14' hgt and 4" cal	=	4 Trees
ands to be min 10' wie all have a min of one puffered with continue	de e tree; min 14' hgt and 4" cal	=	4 Trees

Common Name	Scheduled Size	Remarks
Gumbo Limbo	4" Cal; Min 14' Hgt, 4' Spr	FL #1; Single Leader
Green Buttonwood	4" Cal; Min 14' Hgt, 4' Spr	FL #1; Standard
Silver Buttonwood	2.5" Cal.; 10' Hgt x 4' Spr	FL #1; Single Leader
Dahoon Holly	7'-8' Hgt x 3-4' Spr	Full to base
Cathedral Live Oak	4" Cal.; 14'Hgt x 5' Spr	FL #1; Single Leader
Canna Lily	3 Gal; 30" Hgt x 18" Spr	Plant 48" O.C.
Red Tip Coco Plum	3 Gal; 24" Hgt x 18" Spr	Plant max 30" O.C.
Small-Leaf Clusia	3 Gal; 24" Hgt x 18" Spr	Full; Plant 36" OC
Firefly Firebush	3 Gal; 18" Hgt x 12" Spr	Plant 36" OC.
Simpson Stopper	3 Gal; 24" Hgt x 24" Spr	Full; plant 30" OC.
Hope Philodendron	3 Gal; 30" Hgt x 30" Spr.	
Shrubby Yew Podocarpus	10 Gal.	FL #1; Full, low branched
Dwarf Fakahatchee Grass	3 Gal; 24" Hgt x 18" Spr	
Coontie	3 Gal; 15" Hgt x 15" Spr.	Plant 36" OC
 Gold Mound Duranta	3 Gal; 12" Hgt x 12" Spr	Plant 24" OC
Blue Daze	3 Gal; 6" Hgt x 12" Spr	Plant 18" O.C.
Green Island Ficus	3 Gal; 12" Hgt x 12" Spr	Plant 24" OC
Periwinkle	1 Gal.	Plant 12" O.C.
Hybrid Bermuda Grass	SF; Sod	
Rock Mulch	SF.	See Specifications

= 5 Trees

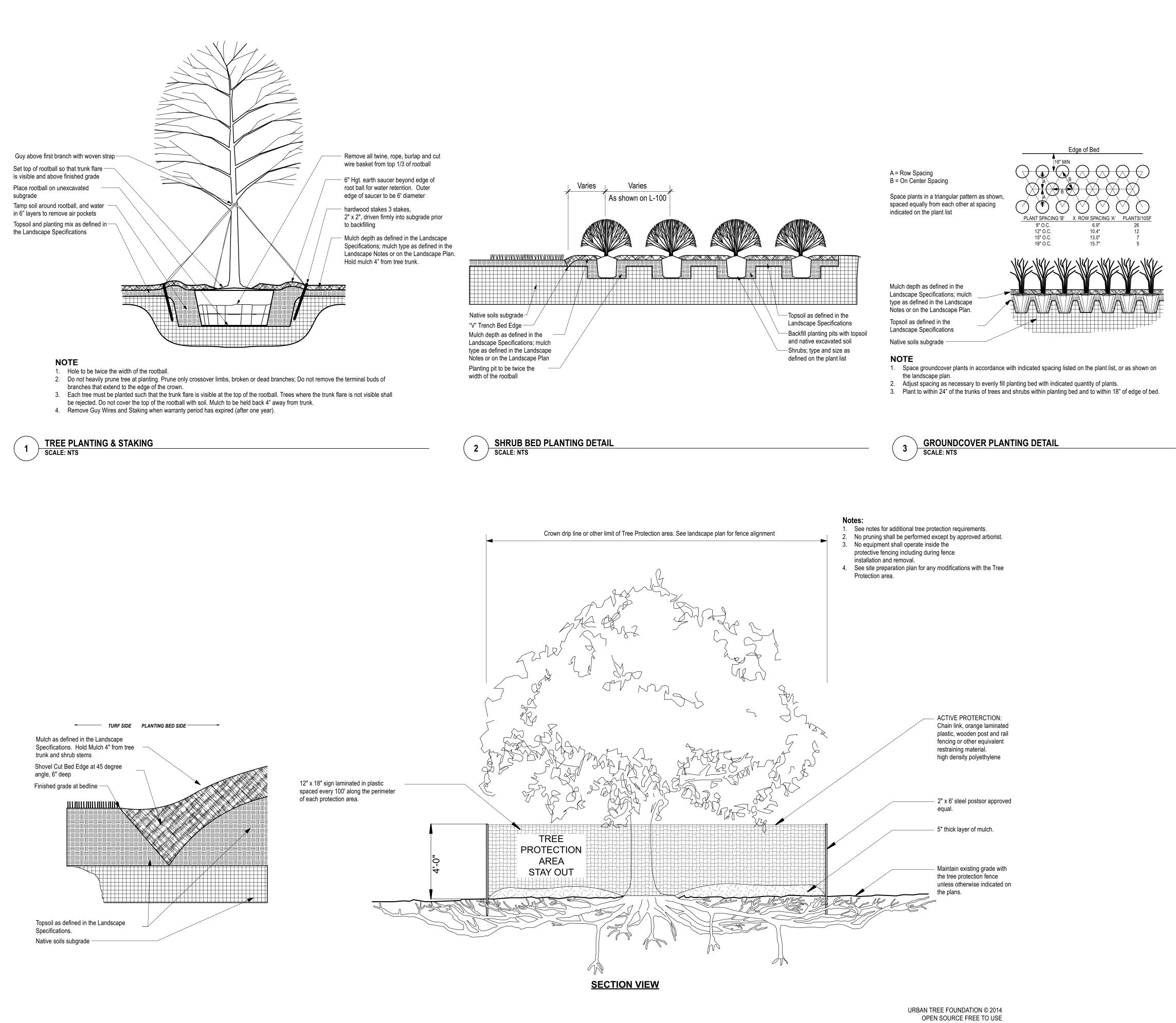
Chick-fil-5200 Buffington Road Atlanta, Georgia 30349-2998 manie LAND DESIGN Landscape Architecture Manley Land Design, Inc. 51 Old Canton Street Alpharetta, Georgia 30009 770.442.8171 tel **N** S 5th 317 ς Υ Υ S S 0 0  $\odot$ FSU# 5069 **REVISION SCHEDULE** NO. DATE BY DESCRIPTION MLD PROJECT # 2022110 PRINTED FOR PERMIT 10/20/22 DRAWN BY AN Information contained on this drawing and in all digital files produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives. **E** Landscape Plan 

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SHEET NUMBER

L-100

Othe Rock Mulch #

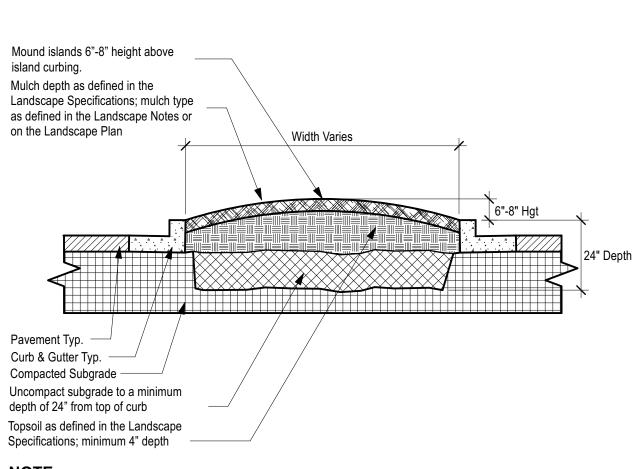


"V" TRENCH BED EDGING SCALE: NTS

5

6

TREE PROTECTION FENCING DETAIL SCALE: NTS



#### NOTE

- 1. Clean construction debris from within landscape island areas (ie. concrete, rocks, rubble, building materials, ect), prior to installing topsoil and plant material. 2. Fracture/loosen existing subgrade to a minimum 24" depth. Remove and replace any subgrade
- unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum bermed 6"-8" height above island curbing. Island plant material as per the Landscape Plan.
- 4. Install plant material as per tree, shrub and ground cover planting details, and as defined in the Landsacpe Specifications.
- Install mulch or sod as specified on the Landscape Plan, and as defined in the Landscape Specifications.

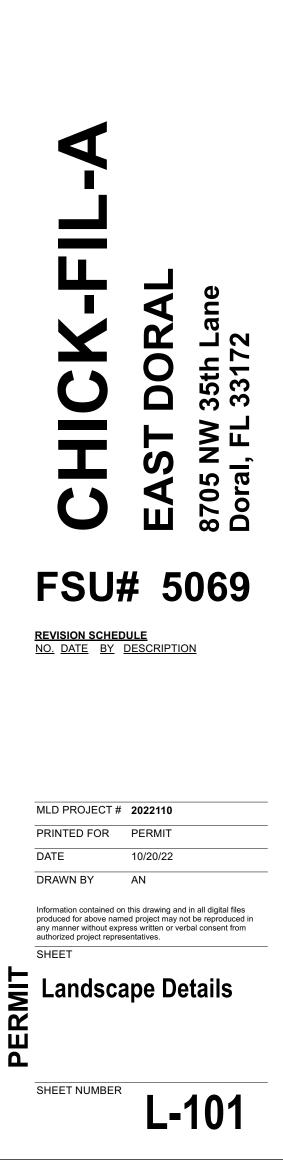
PARKING ISLAND DETAIL SCALE: NTS



5200 Buffington Road Atlanta, Georgia 30349-2998



Manley Land Design, Inc. 51 Old Canton Street Alpharetta, Georgia 30009 770.442.8171 tel



### LANDSCAPE SPECIFICATIONS

#### PART 1 - GENERAL

#### DESCRIPTION

Provide trees, shrubs, ground covers, sod, and annuals/perennials as shown and specified on the landscape plan. The work includes:

- 1. Soil preparation 2. Trees, shrubs, ground covers, and annuals/perennials.
- Planting mixes
- 4. Top Soil, Mulch and Planting accessories.
- Maintenance. 6. Decorative stone.

Related Work:

1. Irrigation System; if provided, see irrigation specifications (sheet L-2.2)

#### **QUALITY ASSURANCE**

Plant names indicated; comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.

All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of 2 years.

Nursery Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional cost, and providing that the larger plants will not be cut back to size indicated. Provide plants indicated by two measurements so that only a maximum of 25% are of the minimum size indicated and 75% are of the maximum size indicated.

Before submitting a bid, the Contractor shall have investigated the sources of supply and be satisfied that they can supply the listed plants in the size, variety and quality as specified. Failure to take this precaution will not relieve the Contractor from their responsibility for furnishing and installing all plant materials in strict accordance with the Contract Documents without additional cost to the Owner. The Landscape Architect shall approve any substitutes of plant material, or changes in plant material size, prior to the Landscape Contractor submitting a bid.

#### DELIVER, STORAGE AND HANDLING

Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected. Spray deciduous plants in foliage with an approved "Anti-Desiccant" immediately after digging to prevent dehydration. Dig, pack, transport, and handle plants with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock. Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, wet peat moss, or in a manner acceptable to the Landscape Architect. Water heeled-in plantings daily. No plant shall be bound with rope or wire in a manner that could damage or break the branches. Cover plants transported on open vehicles with a protective covering to prevent wind burn.

#### PROJECT CONDITIONS

Protect existing utilities, paving, and other facilities from damage caused by landscape operations.

A complete list of plants, including a schedule of sizes, quantities, and other requirements are shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.

The irrigation system will be installed prior to planting. Locate, protect and maintain the irrigation system during planting operations. Repair irrigation system components damaged during planting operations; at the Contractor's expense. Refer to the irrigation specifications, irrigation plan and irrigation details.

Do not begin landscape accessory work before completion of final grading or surfacing.

#### WARRANTY

Warrant plant material to remain alive, be healthy and in a vigorous condition for a period of 1 year after completion and final acceptance of entire project.

Replace, in accordance with the drawings and specifications, all plants that are dead or, are in an unhealthy, or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the Contractor's negligence. The cost of such replacement(s) is at the Contractor's expense. Warrant all replacement plants for 1 year after installation.

Warranty shall not include damage, loss of trees, plants, or ground covers caused by fires, floods, freezing rains, lightning storms, winds over 75 miles per hour, winter kill caused by extreme cold, severe winter conditions not typical of planting area, and/or acts of vandalism or negligence on a part of the Owner.

Remove and immediately replace all plants, found to be unsatisfactory during the initial planting installation.

Maintain and protect plant material, lawns, and irrigation until final acceptance is made.

#### ACCEPTANCE

Inspection of planted areas will be made by the Owner's representative 1. Planted areas will be accepted provided all requirements, including maintenance, have been complied with and plant materials are alive and in a healthy, vigorous condition.

Upon acceptance, the Contractor shall commence the specified plant maintenance.

#### CODES, PERMITS AND FEES

Obtain any necessary permits for this Section of Work and pay any fees required for permits.

The entire installation shall fully comply with all local and state laws and ordinances, and with all established codes applicable thereto; also as depicted on the landscape and irrigation construction set.

#### PART 2 - PRODUCTS

#### MATERIALS

Plants: Provide typical of their species or variety; with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sun scald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces. Plants held on storage will be rejected if they show signs of growth during the storage period.

- 1. Balled and plants wrapped with burlap, to have firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery Stock". Cracked or mushroomed balls, or signs of circling roots are not acceptable. 2. Container- grown stock: Grown in a container for sufficient length of time for the root system to
- have developed to hold its soil together, firm and whole. a. No plants shall be loose in the container.
- b. Container stock shall not be pot bound. 3. Plants planted in rows shall be matched in form.
- 4. Plants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.
- a. If the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.
- 5. The height of the trees, measured from the crown of the roots to the top of the top branch, shall not be less than the minimum size designated in the plant list.
- 6. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
- 7. Evergreen trees shall be branched to the ground or as specified in plant list. 8. Shrubs and small plants shall meet the requirements for spread and height indicated in the plant
- a. The measurements for height shall be taken from the ground level to the height of the top of the plant and not the longest branch.
- b. Single stemmed or thin plants will not be accepted.
- c. Side branches shall be generous, well-twigged, and the plant as a whole well-bushed to the ground d. Plants shall be in a moist, vigorous condition, free from dead wood, bruises, or other root
- or branch injuries.

#### ACCESSORIES

Topsoil: Shall be Fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well-drained arable site, reasonably free from clay, lumps, coarse sands, stones, roots, sticks, and other foreign materials, with acidity range of between pH 6.0 and 6.8.

Note: All planting areas shall be cleaned of construction debris (ie. Concrete, rubble, stones, building material, etc.) prior to adding and spreading of the top soil.

- 1. Sod Areas: Spread a minimum 4" laver of top soil and rake smooth.
- 2. Planting bed areas: Spread a minimum 4" layer of top soil and rake smooth.

- 3. Landscape Islands/Medians: Fracture/loosen existing subgrade to depth. Remove and replace any subgrade unsuitable for planting. clean of debris and loosened, add topsoil to a minimum berm 6"-8" island curbing.
- 4. Annual/Perennial bed areas: Add a minimum of 4" organic matter and t minimum 12" depth.

#### Mulch: Type selected dependent on region and availability; see landscape pla much to be used. Hold mulch 4" from tree trunks and shrub stems

- 1. Hardwood: (color) dark brown, 6 month old well rotted double shredde hardwood bark mulch not larger than 4" in length and 1/2" in width, free and sawdust. Install minimum depth of 3".
- 2. Pine Straw: Pine straw to be fresh harvest, free of debris, bright in cold wired and tightly bound. Needles to be dry. Install minimum depth of 3" 3. River Rock: (color) light gray to buff to dark brown, washed river rock,
- Install in shrub beds to an even depth of 3". Weed control barrier to be installed under all rock mulch areas. Use caution during installation not to damage plant material.
- 4. Mini Nuggets: Install to a minimum depth of 2"-3" at all locations of annual and perennial beds. Lift the stems and leaves of the annuals and carefully spread the mulch to avoid injuring the plants. Gently brush the mulch off the plants.

#### Guying/Staking:

- Arbortie: Green (or white) staking and guying material to be flat, woven, polypropylene material, <sup>3</sup>/<sub>4</sub>" wide 900 lb. break strength. Arbortie shall be fastened to stakes in a manner which permits tree movement and supports the tree.
- 2. Remove Guying/Staking after one year from planting.

Tree Wrap: Tree wraps should be used on young, newly planted thin-barked trees (Cherry, Crabapple, Honey Locust, Linden, Maple, Mountain Ash, Plum) that are most susceptible to sun scald/Sunburn. Standard waterproofed tree wrapping paper, 2-1/2" wide, made of 2 layers of crepe Draft paper weighing not less than 30 lbs. per ream, cemented together with asphalt. Wrap the tree in the fall and leave the wrap in place throughout the winter and early spring. Tree wraps are temporary and no longer needed once trees develop corky bark.

#### PART 3 – EXECUTION

#### INSPECTION

Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve top soil provided by the Genera Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.

#### PREPARATION

Planting shall be performed only by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.

Locate plants as indicated on the plans or as approved in the field after staking by the Landscape Contractor. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until alternate plant locations have been selected and approved by the Landscape Architect; spacing of plant material shall be as shown on the landscape plan.

Excavate circular plant pits with vertical sides, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 12" greater than the diameter of the root system and 24" greater for trees. Depth of pit shall accommodate the root system. Provide undisturbed sub grade to hold root ball at nursery grade as shown on the drawings.

#### INSTALLATION

Set plant material in the planting pit to proper grade and alignment. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material 2" – 3" above the finish grade. No filling will be permitted around trunks or stems. Backfill the pit with topsoil mix and excavated material. Do not use frozen or muddy mixtures for backfilling. Form a ring of soil around the edge of each planting pit to retain water.

After balled and wrapped in burlap plants are set, muddle planting soil mixture around bases of balls and fill all voids.

1. Remove all burlap, ropes, and wires from the top 1/3 of the root ball

Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

#### Mulchi 1. Mulch tree and shrub planting pits and shrub beds with required mulching material (see landscape plan for mulch type); depth of mulch as noted above. Hold mulch back 4"

away from tree trunks and shrub stems. Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.

Decorative Stone: (where indicated on landscape plan)

1. Install weed control barrier over sub-grade prior to installing stone. Lap 6" on all sides. 2. Place stone without damaging weed barrier. 3. Arrange stones for best appearance and to cover all weed barrier fabric.

#### Wrapping, guying, staking:

Inspect trees for injury to trunks, evidence of insect infestation, and improper pruning before wrapping

- 2. Wrapping:
- a. Wrap trunks of all young newly planted trees known to have thin bark. Wrap spirally from bottom to top with specified tree wrap and secure in place. b. Overlap  $\frac{1}{2}$  the width of the tree wrap strip and cover the trunk from the ground to the
- height of the second branch. c. Secure tree wrap in place with twine wound spirally downward in the opposite
- direction, tied around the tree in at least 3 places in addition to the top and bottom. d. Wrap the trees in the fall and leave the wrap in place throughout the winter and early
- d. Tree wraps are temporary and no longer needed once the trees develop corky bark.
- Staking/Guying: a. Stake/guy all trees immediately after lawn sodding operations and prior to acceptance.
- b. Stake deciduous trees 2" caliper and less. Stake evergreen trees under 7'-0" tall. 1. Stakes are placed in line with prevailing wind direction and driven into undisturbed soil.
- 2. Ties are attached to the tree, usually at the lowest branch.
- c. Guy deciduous trees over 2" caliper. Guy evergreen trees 7'-0" tall and over. 1. Guy wires to be attached to three stakes driven into undisturbed soil, with one

During landscape/irrigation installation operations, all areas shall be kept neat and clean.

Precautions shall be taken to avoid damage to existing structures. All work shall be performed

Upon completion of installation operations, all excess materials, equipment, debris and waste

material shall be cleaned up and removed from the site; unless provisions have been granted

Any damage to the landscape, the structure, or the irrigation system caused by the landscape

Maintenance shall include mowing, fertilizing, mulching, pruning, cultivation, weeding, watering,

1. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent

2. repair guy wires and stakes as required. Remove all stakes and guy wires after 1 year.

3. Correct defective work as soon as possible after deficiencies become apparent and

and application of appropriate insecticides and fungicides necessary to maintain plants and

by the owner to use on-site trash receptacles. Sweep parking and walks clean of dirt and

contractor shall be repaired by the landscape contractor without charge to the owner.

Contractor shall provide maintenance until work has been accepted by the Owner's

- stake placed in the direction of the prevailing wind.
- 2. Ties are attached to the tree as high as practical.
- 3. The axis of the stake should be at 90 degree angle to the axis on the pull of the

in a safe manner to the operators, the occupants and any pedestrians.

and not less than twice per week until final acceptance.

debris. Remove all plant tags and other debris from lawns and planting areas.

#### guy wire. 4. Remove all guying and staking after one year from planting.

1. Prune deciduous trees and evergreens only to remove broken or damaged branches.

#### WORKMANSHIP

MAINTENANCE

Representative.

lawns free of insects and disease.

material and remove dead material

weather and season permit

a minimum 24" Once subgrade is " height above	LANDSCAPE MAINTENANCE SPECIFICATIONS
till to a	The Contractor shall provide as a separate bid, maintenance for a period of <b>1 year</b> after final acceptance of the project landscaping. The Contractor must be able to provide continued maintenance if requested by the Owner or provide the name of a reputable landscape
ans for type of	contractor who can provide maintenance.
ed native e of wood chips	<b>STANDARDS</b> All landscape maintenance services shall be performed by trained personnel using current, acceptable horticultural practices.
or. Bales to be o". 1" – 3" in size.	All work shall be performed in a manner that maintains the original intent of the landscape design.

All chemical applications shall be performed in accordance with current county, state and federal laws, using EPA registered materials and methods of application. These applications shall be performed under the supervision of a Licensed Certified applicator.

#### **APPROVALS**

Any work performed in addition to that which is outlined in the contract shall only be done upon written approval by the Owner's Representative (General Manager of the restaurant).

All seasonal color selections shall be approved by the General Manager prior to ordering and installation.

#### SOIL TESTING

The maintenance contractor shall perform soil tests as needed to identify imbalances or deficiencies causing plant material decline. The owner shall be notified of the recommendation for approval, and the necessary corrections made at an additional cost to the owner.

#### Acceptable Soil Test Results

	Landscape Trees and S	Shrubs	Turf
pH Range	5.0-7.0		6.0-7.0
Organic Matter	>1.5%		>2.5%
Magnesium (Mg)	100+lbs./acre		100+lbs./acre
Phosphorus (P2O	5) 150+lbs./acre		150+lbs./acre
al Potassium (K2O)	120+lbs./acre		120+lbs./acre
Soluble salts/	Not to exceed 900ppm/1	.9 mmhos/cm	Not to exceed 750ppm/0.75 mmhos/cm
Conductivity	in soil; not to exceed 140		in soil; not to exceed 2000 ppm/2.0
	mmhos/cm in high organ	ic mix	mmhos/cm in high organic mix
For unusual soil cor	ditions, the following option	al tests are recon	nmended with levels not to exceed:
	Boron	3 pounds	per acre
	Manganese	50 pound	s per acre
	Potassium (K2O)		ds per acre
	Sodium	•	s per acre

#### WORKMANSHIP

During landscape maintenance operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed in a safe manner to the operators, the occupants and any pedestrians.

Upon completion of maintenance operations, all debris and waste material shall be cleaned up and removed from the site, unless provisions have been granted by the owner to use on-site trash receptacles.

Any damage to the landscape, the structure, or the irrigation system caused by the maintenance contractor, shall be repaired by the maintenance contractor without charge to the

#### TURF

owner.

#### **GENERAL CLEAN UP**

Prior to mowing, all trash, sticks, and other unwanted debris shall be removed from lawns, plant beds, and paved areas.

#### MOWING

Warm season grasses (i.e. Bermuda grass) shall be maintained at a height of 1" to 2" during the growing season.

Cool season grasses, including blue grass, tall fescue, perennial ryegrass, etc., shall be maintained at a height of 2" to 3" in spring and fall. From June through September, mowing height shall be maintained at no less than 3".

The mowing operation includes trimming around all obstacles, raking excessive grass clippings NOTE: For identification of plant-damaging insects and mites, a reference textbook and removing debris from walks, curbs, and parking areas. Caution: Weed eaters should NOT be used around trees because of potential damage to the bark.

#### EDGING

Edging of all sidewalks, curbs and other paved areas shall be performed once every other mowing. Debris from the edging operations shall be removed and the areas swept clean. Caution shall be used to avoid flying debris.

#### LIMING & FERTILIZING

A soil test shall be taken to determine whether an application of limestone in late fall is necessary. If limestone is required, the landscape contractor shall specify the rate, obtain approval from the owner and apply it at an additional cost. A unit price for liming of turf shall accompany the bid based on a rate of 50 pounds per 1000 square feet.

Fertilizer shall be applied in areas based on the existing turf species.

#### LAWN WEED CONTROL: HERBICIDES

Selection and proper use of herbicides shall be the landscape contractor's responsibility. All chemical applications shall be performed under the supervision of a Licensed Certified Applicator. Read the label prior to applying any chemical.

#### **INSECT & DISEASE CONTROL FOR TURF**

The contractor shall be responsible for monitoring the site conditions on each visit to determine if any insect pest or disease problems exist. The contractor shall identify the insect pest or disease, as well as the host plant, and then consult the most current edition of the Cooperative Extension Service's "Commercial Insecticide Recommendation for Turf" for control. The licensed applicator shall be familiar with the label provided for the selected product prior to application.

Inspection and treatment to control insect pests shall be included in the contract price.

#### TREES, SHRUBS, & GROUND COVER

#### PRUNING

All ornamental trees, shrubs and ground cover shall be pruned when appropriate to remove dead or damaged branches, develop the natural shapes. Do not shear trees or shrubs. If previous maintenance practice has been to shear and ball, then a natural shape will be restored gradually.

#### Pruning Guidelines:

- 1. Prune those that flower before the end of June immediately after flowering. Flower buds develop during the previous growing season. Fall, winter or spring pruning would reduce the spring flowering display.
- 2. Prune those that flower in summer or autumn in winter or spring before new growth begins, since these plants develop flowers on new growth
- 3. Delay pruning plants grown for ornamental fruits, such as cotoneasters, pyracanthas and viburnums. 4. Hollies and other evergreens may be pruned during winter in order to use their branches
- for seasonal decoration. However, severe pruning of evergreens should be done in early spring only. 5. Broadleaf evergreen shrubs shall be hand-pruned to maintain their natural appearance
- after the new growth hardens off. 6. Hedges or shrubs that require shearing to maintain a formal appearance shall be pruned as required. Dead wood shall be removed from sheared plants before the first
- shearing of the season 7. Conifers shall be pruned, if required, according to their genus.
- A. Yews, junipers, hemlocks, arborvitae, and false-cypress may be pruned after new growth has hardened off in late summer. If severe pruning is necessary, it must be done in early spring.
- B. Firs and spruces may be lightly pruned in late summer, fall, or winter after completing growth. Leave side buds. Never cut central leader.
- C. Pines may be lightly pruned in early June by reducing candles. 8. Groundcover shall be edged and pruned as needed to contain it within its borders.
- 4. Water trees, plants and ground cover beds within the first 24 hours of initial planting.

- 9. Thinning: Remove branches and water sprouts by cutting them back to the origin on parent stems. This method results in a more open plant, without st excessive growth. Thinning is used on crepe myrtle, lilacs, viburnums, smok
- 10. Renewal pruning: Remove oldest branches of shrub at ground, leaving the more vigorous branches. Also remove weak stems. On overgrown plants, the may be best done over a three-year period. Renewal pruning may be used forsythia, deutzia, spiraea, etc.

Plants overhanging passageways and parking areas and damaged plants shall be

Shade trees that cannot be adequately pruned from the ground shall not be include Maintenance Contract. A certified arborist under a separate contract shall perform work

#### SPRING CLEANUP

Plant beds shall receive a general cleanup before fertilizing and mulching. Cleanup removing debris and trash from beds and cutting back herbaceous perennials left through winter, e.g. ornamental grasses, Sedum Autumn Joy.

#### FERTILIZING

For trees, the rate of fertilization depends on the tree species, tree vigor, area availa fertilization, and growth stage of the tree. Mature specimens benefit from fertilizatio 4 years; younger trees shall be fertilized more often during rapid growth stages.

The current recommendation is based on the rate of 1000 square feet of area under be fertilized. For deciduous trees, 2 to 6 pounds of Nitrogen per 1000 square feet; narrow-leaf evergreens, 1 to 4 pounds of Nitrogen per 1000 square feet; for broadl evergreens, 1 to 3 pounds of Nitrogen per 1000 square feet.

Shrubs and groundcover shall be top-dressed with compost 1" deep, or fertilized or with 10-6-4 analysis fertilizer at the rate of 3 pounds per 100 square feet of bed area Ericaceous material shall be fertilized with an ericaceous fertilizer at the manufactu recommendation rate. If plants are growing poorly, a soil sample should be taken.

#### MULCHING

Annually, all tree and shrub beds will be prepared and mulched, to a minimum dept quality mulch to match existing. Bed preparation shall include removing all weeds, said bed, edging and cultivating decayed mulch into the soil. Debris from edging is removed from beds where applicable. If deemed necessary, a pre-emergent herbic applied to the soil to inhibit the growth of future weeds.

Organically maintained gardens shall not receive any pre-emergent herbicides. Mu of 4" will be removed from the bed areas. SPECIAL CARE shall be taken in the mu operation not to over-mulch or cover the base of trees and shrubs. This can be deti the health of the plants.

#### WEEDING

All beds shall be weeded on a continuous basis throughout the growing season to neat appearance at all times.

Pre-emergent (soil-applied) and post-emergent (foliar-applied) herbicides shall be and when applicable and in accordance with the product's label.

**INSECT & DISEASE CONTROL: TREES, SHRUBS & GROUNDCOVER** 

The maintenance contractor shall be responsible for monitoring the landscape site basis. The monitoring frequency shall be monthly except for growing season, which every other week. Trained personnel shall monitor for plant damaging insect activit pathogenic diseases and potential cultural problems in the landscape. The pest or o problem will be identified under the supervision of the contractor.

For plant damaging insects and mites identified in the landscape, the contractor sha and follow the recommendations of the most current edition of the state Cooperativ publication on insect control on landscape plant material.

Plant pathogenic disease problems identified by the contractor that can be resolved or physical removal of damaged plant parts will be performed as part of the contract additional charge, plant pathogenic diseases that can be resolved through properly applications of fungicides shall be made when the owner authorizes it.

If the contractor notes an especially insect-or disease-prone plant species in the la he/she will suggest replacement with a more pest-resistant cultivar or species that it with the intent of the landscape design.

used is Insects that feed on Trees and Shrubs by Johnson and Lyon, Comstock Pu Associates. For plan pathogenic diseases, two references are suggested: Scouting Controlling Woody Ornamental Diseases in Landscapes and Nurseries, authorized Moorman, published by Penn State College of Agricultural Sciences, and Diseases and Shrubs by Sinclair and Lyon, published by Comstock Publishing Press.

#### **TRASH REMOVAL**

The maintenance contractor shall remove trash from all shrub and groundcover bee

#### LEAF REMOVAL

All fallen leaves shall be removed from the site in November and once in Decembe requested by the owner, the maintenance contractor, at an additional cost to the owner. perform supplemental leaf removals.

#### WINTER CLEAN-UP

The project shall receive a general clean-up once during each of the winter months January, February, and March.

- Clean-up includes:
- Cleaning curbs and parking areas
- Removing all trash and unwanted debris Turning mulch where necessary
- Inspection of grounds

#### SEASONAL COLOR: PERENNIALS, ANNUALS, AND BULBS

The installation of perennials, annuals, and bulbs, unless specified herein, shall be reviewed with the owner, and, if accepted, installed and billed to the owner.

#### SEASONAL COLOR MAINTENANCE

- Perennialization of Bulbs:
- 1. After flowering, cut off spent flower heads. 2. Allow leaves of daffodils and hyacinths to remain for six weeks after flowers have faded.
- Cut off at base. Allow leaves of other bulbs to yellow naturally and then cut off at base.
- 4. Apply fertilizer after flowering in spring, possibly again in fall. Apply 10-10-10 at the rate of 2 pounds per 1000 square feet, or top-dress with compost 1" deep. Fall fertilization with a bulb fertilizer or mulching with 1" of compost is optional.

#### Flower Rotation:

- 1. Bulbs: Remove the entire plant and bulb after flowers have faded or at the direction of the owner, and install new plants if included in contract.
- Summer Annuals or Fall Plants
- a. Dead heading: Pinch and remove dead flowers on annuals as necessary. b. Fertilizing Summer Annuals: Fertilize using one or two methods: Apply a slow-release fertilizer in May following manufacturer's recommendations. A booster such as 10-10-10 may be necessary in late summer. Or, apply liquid fertilizations of 20-20-20 water-soluble fertilizers, not to exceed 2 pounds of 20-20-20 per 100
- gallons of water, monthly; or mulch with compost 1" deep. c. Removal: If fall plants are to be installed, summer annuals shall be left in the ground
- until the first killing frost and then removed, unless otherwise directed by the owner.

r point of	Perennials:	
timulating ke bush,etc.	<ol> <li>After initial installation, if a time-released fertilizer has been incorporated during plant installation, no more fertilizer need be applied the first growing season.</li> </ol>	
younger,	2. The following year:	
his method on abelia,	<ul> <li>Fertilize perennials with a slow-release fertilizer or any 50% organic fertilizer, or mulch perennials with compost 1" deep.</li> </ul>	
on abona,	b. Cut all deciduous perennials flush to the ground by March 1, if this was not done the	
pruned as	previous fall, to allow new growth to develop freely. c. Mulch the perennial bed once in early spring at 1"-2" depth. If soil is bared in late	
pruneu as	fall, re-mulch lightly after ground is frozen to protect perennials.	
1.5 0	d. Inspect for insect or disease problems on perennials. Monitor and control slugs on	
ed in the this type of	hostas and ligularias. Powdery mildew on phlox, monardas, and asters can be prevented with properly timed fungicides or use of disease-resistant varieties.	
	e. Weed perennial bed as specified in "WEEDING" above.	
	f. Prune branching species to increase density. Cut only the flowering stems after	
o includes	blooming. Do not remove the foliage. 3. The following fall cut back deteriorating plant parts unless instructed to retain for winter	
standing	interest, e.g. Sedum Autumn Joy and ornamental grasses.	
	<ul><li>4. Long-term Care:</li><li>a. Divide plants that overcrowd the space provided. Divide according to the species.</li></ul>	
	Some need frequent dividing, e.g. asters and yarrow every two years; other rarely, if	
lable for on every 3 to	ever, e.g. peonies, hosta, and astilbe. b. For detailed information regarding the care of specific perennials, refer to <i>All About</i>	
	Perennials by Ortho; Perennials: How to Select, Grow and Enjoy by Pamela Harper	_
er the tree to	and Frederick McGouty, Hp Books Publisher; <i>Herbaceous Perennial Plants: A</i> <i>Treatise on their Identification, Culture and Garden Attributes</i> by Allan Armitage,	Α
for	Stipes Pub LLC.	
eaf		
nce in March	SUMMARY OF MAINTENANCE	
ea. urer's	LAWN MAINTENANCE	
	1. Soil analysis performed annually to determine pH. If pH does not fall within specified	
	range, adjust according to soil test recommendations.	
th of 3" with	<ol> <li>Maintain proper fertility and pH levels of the soil to provide an environment conducive to turf vitality for cool season grasses</li> </ol>	
cleaning up	3. Mow warm and cool season on a regular basis and as season and weather dictates.	
to be cide may be	Remove no more than the top 1/3 of leaf blade. Clippings on paved and bed areas will be removed.	
,	4. Aerate warm season turf areas to maintain high standards of turf appearance.	
Ilch in excess	<ol> <li>Apply pre-emergent to turf in two applications in early February and early April to extend barrier.</li> </ol>	
ulching	6. Apply post emergent as needed to control weeds.	
rimental to	7. Mechanically edge curbs and walks.	
	<ol> <li>Apply non-selective herbicide, to mulched bed areas and pavement and remove excess runners to maintain clean defined beds.</li> </ol>	
maintain a		
maintain a	<b>TREE, GROUNDCOVER, AND SHRUB BED MAINTENANCE</b> 1. Prune shrubs, trees and groundcover to encourage healthy growth and create a natural	
	appearance.	
used where	<ol> <li>Mulch to be applied in February/March with a half rate in late summer to top dress.</li> <li>Apply pre-emergent herbicides in February and April.</li> </ol>	
	4. Manual weed control to maintain clean bed appearance.	
	<ol> <li>Apply fungicides and insecticides as needed to control insects and disease.</li> <li>Ornamental shrubs, trees and groundcovers to be fertilized three (3) times per year with</li> </ol>	
on a regular	a balanced material (January/February, April/May, and October/November)	
h will be ty, plant	7. Edge all mulched beds.	
cultural	8. Remove all litter and debris.	
all consult	<ol> <li>Remove all man-made debris, blow edges.</li> <li>Inspect grounds on a monthly basis and schedule inspection with Unit Operator.</li> </ol>	
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5200 Buffington Road tlanta, Georgia 30349-2998



Manley Land Design, Inc. 51 Old Canton Street Alpharetta, Georgia 30009 770.442.8171 tel

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