



**TECHNICAL REVIEW COMMITTEE MEETING
CITY OF ST. PETE BEACH**

**Notice of Public Meeting
Technical Review Committee**

Upstairs Conference Room
155 Corey Avenue Floor 2, City Hall, St. Pete Beach, FL 33706

Wednesday, January 4, 2023
10:00 AM

Regular Meeting Agenda

This is an informal meeting between City staff and the applicant(s). The public is invited to attend, however no public comment shall be permitted.

Discussion Items

1. Site Plan #22074 - 4623 Gulf Blvd (Chick-fil-A)

Applicant requests administrative site plan review for two additions of 184 and 93 square feet, along with other building and site improvements, to an existing restaurant.

Next Meeting: January 18, 2023

TECHNICAL REVIEW COMMITTEE MEETING CITY OF ST. PETE BEACH

Agenda Report

Issue Considered: Site Plan #22074 - 4623 Gulf Blvd (Chick-fil-A)

Date: January 4, 2023

Prepared By: Brandon Berry, Planner II

Through: Jennifer McMahon, Chief Operating Officer

Summary of Issue: Applicant requests administrative site plan review for two additions of 184 and 93 square feet, along with other building and site improvements, to an existing restaurant.

Funding:

Requested Motion:

- Attachments:**
1. Site Plan #22074 Application
 2. Site Plan #22074 Owner Authorization
 3. C29146 SURVEY DIGI
 4. Chick-fil-A St Pete Beach Civil Set_SS
 5. Landscaping Plans Bound



Case Number: _____

City of St. Pete Beach
Community Development Department
155 Corey Avenue
St. Pete Beach, Florida 33706
727-367-2735
www.stpetebeach.org

PROPERTY OWNER:

Name: BRE Mariner Dolphin Village, LLC

Address: C/O THOMSON REUTERS, INC DEPT 124 Address: 1117 E Robinson Street
PO BOX 4900

City: SCOTTSDALE State: AZ

Zip: 85261-4900 Telephone: _____

Email: jacob.smith@cfacorp.com

APPLICANT/AGENT (Attach agent authorization form):

Name: CPH, Inc./ Nicole Cianchetti

City: Orlando State: FL

Zip: 32801 Telephone: 407-425-0452

Email: ncianchetti@cphcorp.com

SUBJECT PROPERTY:

Address: 4623 Gulf Blvd, St. Pete Beach Current Name of Business: Chick-fil-A

Parcel: 06-32-16-00000-330-0900 Name of Project: Chick-fil-A St. Pete Beach Remodel

DETAILS OF THE REQUEST, INCLUDING APPLICABLE CODE SECTIONS AND ANY ASSOCIATED CASES (Add additional sheets if necessary):

Proposed remodel of the existing Chick-fil-A to include an interior remodel, small building addition
to the kitchen area (277sf), and minor re-grading of the drive-thru lane in the rear of the building to
accommodate the building remodel.

Nicole E Cianchetti

Signature of Applicant / Agent

11/7/2022

Date



Guide for Site Plan Submittals

Pre-application Conference. The City suggests that applicants for any nonresidential development or any residential project that will have three or more units to request a pre-application conference with staff. The purpose is to gain a clear understanding of the proposed project, identify any regulatory processes/issues that will impact the project, and answer any questions.

The materials required as part of the application are necessary to provide the city with sufficient information to ensure compliance with the requirements of the Land Development Code, Code of Ordinances, Comprehensive Plan, and any other Federal, State and County regulations. All City codes can be found at www.municode.com.

All site plans submitted for review, pursuant to Section 5.1(b) of the Land Development Code, shall include the following documents and information. Staff reserves the right to require additional information. Failure to provide the required information shall result in postponement of the review process. All site plans must be submitted in scalable PDF or JPEG format and seven (7) hard copies in either 11" x 17" size for simple site plans or 24" x 36" size for more complex plans. All supporting documents must also be submitted in PDF format and one (7) hard copies. The TRC Chair will issue a letter of sufficiency within ten (10) days of receipt of complete application. In order to be considered complete, an application must have the following:

- (1) The name, address, and telephone number of the owner of record of the land proposed for development.
- (2) The name, address, and telephone number of the developer and/or agent, if different from the owner.
- (3) The name, address, and telephone number of all land use, environmental and engineering professionals that assisted in the preparation of the application.
- (4) The street address and legal description of the land on which the development is proposed to occur, with attached copies of any legal instruments referenced, such as, but not limited to, deeds, plats, easements, covenants, and restrictions.
- (5) A reference to the zoning district designation and the future land use map designation for the land proposed for development.
- (6) Identification of all existing rights-of-way, water courses, floodplains, wetlands, and other environmentally sensitive areas on or within two hundred (200) feet of the land subject to the development plan.
- (7) Topography of the site, pre and post construction, in specified (smallest 2.0') contour intervals.
- (8) A title block denoting the type of application, tax map sheet, and lot, block and subdivision name (if applicable).
- (9) A location map of the land with reference to surrounding lands, subdivisions, streets, and municipal boundaries.

- (10) A boundary survey of the land subject to the development plan prepared by a registered land surveyor, showing the location and material of all permanent reference monuments and benchmarks, a metes and bounds description listing dimensions, bearings, curve data, length of tangents, radii, and central angles of all centerline curves of streets, and the size of the land in acres to the nearest tenth of an acre, or in square feet, the FEMA flood zone with Flood Insurance Rate Map (FIRM) reference number, and an ALTA/ACSM land title survey of the property subject to the development plan completed within the last twelve (12) months.
- (11) A site plan, with north arrow and scale, identifying:
 - a. The proposed land uses, densities, and intensities of use;
 - b. The location of proposed structures, and any existing structures proposed to be retained, showing size, and setbacks;
 - c. Common areas;
 - d. Recreational facilities;
 - e. Ingress and egress to the development, and the internal traffic circulation system and identification of street names;
 - f. Utility location;
 - g. Easements;
 - h. Off-street parking and loading facilities;
 - i. Landscaping and buffering; and
 - j. Signage.
- (12) If subdividing or combining lots of record or adjusting lot lines: the preliminary subdivision plat, which includes the subdivision name in bold legible letters under which the location of the plat by government survey lot, section, township, and range shall appear.
- (13) Location and area of all property to be dedicated for public use or reserved by deed or covenant for use by all land owners in the development and a statement of the conditions of such dedication or reservation.
- (14) A schedule showing the lot area, width, depth, pervious and impervious area (pre & post development), dimensional standards, building coverage, landscaping and parking of the development plan, and how they comply with the requirements of the Land Development Code.
- (15) A traffic study, if the development is expected to generate 100 or more new inbound or outbound trips during peak hours, prepared by a professional transportation planner or engineer. The study shall address the anticipated impact of the project upon traffic volume, intersection signalization, turning movements, internal vehicle circulation, pedestrian movement, and other significant traffic concerns.
- (16) Proposed utility infrastructure plans, including sanitary sewer, potable water, a storm water management plan with supporting data (stormwater calculations) and an electric plan with accurate indication of locations of points of connection to public systems.
- (17) Spot and finished elevations at all property corners, corners of all structures or dwellings, existing and proposed first floor elevations, and appropriate locations in and around vehicle use areas.
- (18) Site utility and construction details, including a cross-connection control plan.
- (19) Roadway and paving cross-sections and profiles if modifying the roadway.
- (20) Lighting plan and details if located in the Community Redevelopment District, including photometrics and examples of the proposed fixtures.

- (21) Provisions for solid waste management.
- (22) Locations and preliminary plans for signs.
- (23) Sight triangles at the intersections of roadways and curb cuts with roadways.
- (24) Vehicular and pedestrian circulation patterns.
- (25) Off-street parking and loading plans showing spaces, size and type, aisle widths, curb cuts, drives, driveways, and all ingress and egress areas and dimensions.
- (26) Preliminary architectural plans and elevations; full Architectural renderings of proposed structures within the Community Redevelopment District.
- (27) Preliminary Building Code Analysis, including life safety (means of egress) diagrams.
- (28) The height and number of floors/stories of all structures and number of units per floor/story.
- (29) The proposed first floor elevation for all structures and the FEMA flood zone and required base flood elevation.
- (30) Demonstration of compliance with concurrency requirements & application for certificate of concurrency.
- (31) Landscape plan and details.

All changes of use are required to bring the entire property into compliance with Division 22 of the LDC (landscape requirements). If located within the Community Redevelopment District, additional requirements apply.

The landscape plan, which shall be drawn by a Florida Registered landscape architect or other qualified/ licensed landscape professional, shall include all of the following:

- (a) The preparer's name, address, and telephone number, signature and seal.
- (b) A schedule including:
 - 1. Location, quantity, size, and type of existing and proposed vegetation and landscaping on the site.
 - 2. Separate calculations for required interior and perimeter landscaping for the vehicular use area landscaping in square feet.
 - 3. Width and square footage of all required landscape buffers.
- (c) Plant legend showing botanical and common name, size and quantity of all proposed plantings
- (d) Elevation and section drawings of any solid screen proposed.
- (e) All trees three (3) inches DBH (Diameter Breast Height) or greater and palms 8 foot in height or greater to be retained and those proposed for removal.
- (f) All proposed building footprints; drives, walks, patios, parking areas, lighting and other hardscape improvements.
- (g) Scale and north arrow.

(32) Fire Department:

- (a) The Florida Fire Prevention Code (2003 edition – RE: F.S. 633 – 69A60 F.A.C.) requires this information be provided by the applicant to the Fire Official to allow for sufficient review. 61G of the Florida Administrative Codes outlines the same requirements for the Design Professional.
- (b) Underground Utilities:
 1. Fire Mains Locations
 2. Backflow Prevention Devices Locations
 3. Hydrant Locations
 4. Fire Department Connections Locations
 5. Proposed Boat Docks and Associated Underground Piping
 6. Gas Main Location and Associated Valves
 7. Power Services for Gate Operations at Gated Communities
 8. Telephone Services
 9. Electrical Services
 10. Hydraulic Calculations for the required Fire Sprinkler Systems, Standpipe Systems and Boat Dock Standpipe Systems are necessary to assure Fire Main Pipe Size and the Water Flow required for Fire Suppression Operations.

NOTE: All new construction (buildings and structures) shall be required to be provided with an automatic fire sprinkler/standpipe system. AUTOMATIC means a Fire Pump must be provided.

Completed applications are routed to the Technical Review Staff, which is comprised of representatives of the City Staff who review and make comments on submitted applications. The Departments that will review the application are:

Fire	363-9205
Public Works	363-9254
Planning & Zoning	363-9266
Building	363-9277
Recreation	363-9274
Code Enforcement/Public Safety	363-9211

Technical Review Committee Deadlines

The TRC meets the 1st and 3rd Wednesday of each month at 10:00am in the Community Development Department conference room. The following applications must be reviewed by the TRC:

- (1) Site Plans
- (2) Subdivisions
- (3) Conditional Uses
- (4) Amendments to the Zoning Map
- (5) Amendments to the Future Land Use Map
- (6) Variances on property being used for other than single-family detached residential purpose
- (7) Vacations of Streets, Plats or other property
- (8) Temporary Uses
- (9) All other applications assigned by the City Manager

Application Due Date By 12:00pm	Meeting Date
December 28, 2020	January 20, 2021
January 11, 2021	February 3, 2021
January 25, 2021	February 17, 2021
February 8, 2021	March 3, 2021
February 22, 2021	March 17, 2021
March 15, 2021	April 7, 2021
March 29, 2021	April 21, 2021
April 12, 2021	May 5, 2021
April 26, 2021	May 19, 2021
May 10, 2021	June 2, 2021
May 24, 2021	June 16, 2021
June 14, 2021	July 7, 2021
June 28, 2021	July 21, 2021
July 12, 2021	August 4, 2021
July 26, 2021	August 18, 2021
August 9, 2021	September 1, 2021
August 23, 2021	September 15, 2021
September 13, 2021	October 6, 2021
September 27, 2021	October 20, 2021
October 11, 2021	November 3, 2021
October 25, 2021	November 17, 2021
November 8, 2021	December 1, 2021
November 22, 2021	December 15, 2021
December 13, 2021	January 5, 2022

Owner's Authorization for Agent

Community Development Department

City of St. Pete Beach, Florida

I/WE

BRE Mariner Dolphin Village, LLC

(print name of property owner)

hereby authorize

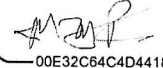
CPH, Inc.

(print name of agent)

to represent me/us in an application for

Technical Review Committee/Site Plan Application & Variance (if needed)

(type of application: variance, conditional use, zoning, etc.)

DocuSigned by:

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Signature of Owner

Signature of Owner

Matthew Ryan, Executive Vice President

Print Name of Owner

Print Name of Owner

The forgoing instrument was acknowledged before me this 21 day of October 2021 by Matthew Ryan or who is personally known produced as identification.

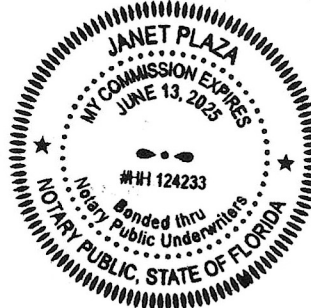


(Notary Signature)

10/21/22

(Date)

My Commission Expires June 13, 2025



Agent Authorization Letter

April 29, 2022

RE: Zoning, Permitting, WMD, Building Permitting, and Approvals
Applicant: Chick-fil-A, Inc.
Owner: BRE Mariner Dolphin Village, LLC
Authorized Agent: CPH, Inc.
Project Name: Chick-fil-A – The St Pete Beach (City of St. Pete Beach) – Store # 1740
Site Address: 4623 Gulf Blvd., St. Pete Beach, FL 33706

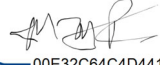
On behalf of BRE Mariner Dolphin Village, LLC (OWNER), I hereby authorize CPH, Inc. (the “Engineer”), to serve as OWNER’s authorized agent for the purpose of seeking all requisite zoning modifications, permits, WMD, building permits, and approvals related to the proposed building additions and site modifications of the above-referenced site.

The Engineer’s authorization is expressly limited to (i) signing and delivering applications for zoning modifications, permits, WMD, building permits, and approvals that are related to the building additions and site modifications of the above-referenced site, and (ii) advancing the requisite funds on behalf of OWNER to file such applications. Further, this authorization does not empower the Engineer to either negotiate on OWNER’s behalf or otherwise obligate OWNER in any manner whatsoever, including any attempt to obligate OWNER to pay for or construct improvements without additional authorization in writing from OWNER.

Respectfully,

BRE Mariner Dolphin Village, LLC

By: _____

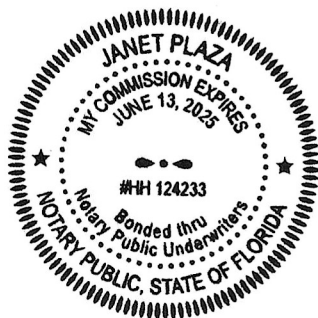
DocuSigned by:

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Matthew Ryan, Executive Vice President

STATE OF FLORIDA
COUNTY OF Orange

BEFORE ME, the undersigned authority, on this day personally appeared Matthew Ryan known to me to be the person whose name is subscribed to the forgoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

Given under my hand and seal of office on this 21 day of October, 2022.



[Notary Seal]

Janet Plaza

Print Name: Janet Plaza

Notary Public, State of Florida

Commission number: HH124233

My commission expires: June 13, 2025

**TITLE UPDATE REPORT PER FIDELITY
NATIONAL TITLE, ORDER NO. 28801296
ISSUE DATE 04/03/2019**

3. TYPE OF DEED: SPECIAL WARRANTY DEED
FROM: WINDWARD PARTNERS IX, LLC, A DELAWARE LIMITED LIABILITY COMPANY
TO: DOLPHIN VILLAGE PARTNERS, LLC, A FLORIDA LIMITED LIABILITY COMPANY
DATED: 01/03/2006
RECORDED ON: 01/09/2006
RECORDED IN: DEED BOOK 14860, PAGE 756
(AFFECTS SUBJECT PARCEL, BLANKET IN NATURE)
4. ASSIGNMENT AND ASSUMPTION OF LEASE:
ASSIGNOR: WINDWARD PARTNERS IX, LLC, A DELAWARE LIMITED LIABILITY COMPANY
ASSIGNEE: DOLPHIN VILLAGE PARTNERS, LLC
DATED: 01/03/2006
RECORDED ON: 01/09/2006
RECORDED IN: DEED BOOK 14860, PAGE 763
(AFFECTS SUBJECT PARCEL, BLANKET IN NATURE)
5. NOTICE PURSUANT TO SECTION 713.10(2), FLORIDA STATUTE
BY: DOLPHIN VILLAGE PARTNERS, LLC, A FLORIDA LIMITED LIABILITY COMPANY
RECORDED ON: 07/05/2006
RECORDED IN: DEED BOOK 15223, PAGE 2107
(AFFECTS SUBJECT PARCEL, BLANKET IN NATURE)
6. SOVEREIGNTY SUBMERGED LANDS LEASE MODIFICATION
DATED: 07/13/2006
LANDLORD: THE BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA, AS LANDLORD/LESSOR TENANT: DOLPHIN VILLAGE PARTNERS, LLC, A FLORIDA LIMITED LIABILITY COMPANY, AS TENANT/LESSEE
RECORDED ON: 07/24/2006
RECORDED IN: DEED BOOK 15260, PAGE 1152
(AFFECTS SUBJECT PARCEL, BLANKET IN NATURE)
7. SOVEREIGNTY SUBMERGED LANDS LEASE MODIFICATION
DATED: 09/03/2010
LANDLORD: THE BOARD OF TRUSTEES OF THE INTERNAL TRUST FUND OF THE STATE OF FLORIDA, AS LANDLORD/LESSOR TENANT: DOLPHIN VILLAGE PARTNERS, LLC, A FLORIDA LIMITED LIABILITY COMPANY, AS TENANT/LESSEE
RECORDED ON: 10/08/2010
RECORDED IN: DEED BOOK 17053, PAGE 1632
(AFFECTS SUBJECT PARCEL, BLANKET IN NATURE)
8. MEMORANDUM OF LEASE:
DATED: 07/07/2001
LANDLORD: EQUITY ONE (FLORIDA PORTFOLIO), INC., A FLORIDA CORPORATION, AS SUCCESSOR BY MERGER TO DOLPHIN VILLAGE PARTNERS, LLC., FLORIDA LIMITED LIABILITY COMPANY, AS LANDLORD/LESSOR TENANT: JPMORGAN CHASE BANK, N.A., A NATIONAL BANKING ASSOCIATION, AS TENANT/LESSEE
RECORDED ON: 03/02/2011
RECORDED IN: DEED BOOK 17182, PAGE 1865
(AFFECTS SUBJECT PARCEL, BLANKET IN NATURE)
9. TYPE OF DEED: STATUTORY WARRANTY DEED
FROM: EQUITY ONE (FLORIDA PORTFOLIO), INC., A FLORIDA CORPORATION
TO: BRE WARNER DOLPHIN VILLAGE LLC, A DELAWARE LIMITED LIABILITY COMPANY
DATED: 12/13/2011
RECORDED ON: 01/03/2012
RECORDED IN: DEED BOOK 17450, PAGE 1616
(AFFECTS SUBJECT PARCEL, BLANKET IN NATURE)

Zoning & Setback Information:

(PER SITE INVESTIGATION REPORT)

1. Zoning District and Future Land Use Designation:
Zoning District: AC – Activity Center/ Lehigh Acres Planning Area
Future Land Use: AC – Activity Center District

2. Building Setbacks:

a.Front: For building elements of up to twenty-eight (28) feet: 20 feet maximum on all streets.
(For building elements over 28 feet: Must step back on additional half-foot for every foot in height above 28 feet from the front facade of the building. The open areas produced as a result of the stepped back portion of the building may be used as deck, patio, balcony, or other open space).
b.Left Side: 10 percent of lot width per side; 10 foot minimum setback required.
c.Right Side: 10 percent of lot width per side; 10 foot minimum setback required.
d.Rear: 20 feet for the first 28 feet in height; 30 feet for all elements above 28 feet; No setback shall be required for any structural pedestrian facilities adjacent to any body of water. Outdoor seating areas for permitted businesses may be placed within the required rear yard setback if the zoning lot is not adjacent to a residential use.

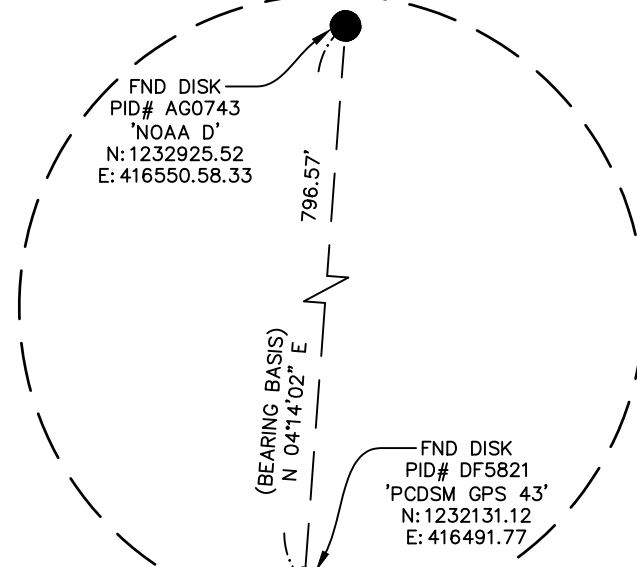
Secondary front: 10 feet

Abbreviation Legend:

(A)	– ACTUAL	MBX	– MAILBOX
A/C	– AIR CONDITIONER	MES	– MITERED END SECTION
ACSM	– AMERICAN CONGRESS ON SURVEYING & MAPPING	MH	– MANHOLE
ADA	– AMERICANS WITH DISABILITIES ACT	MLP	– METAL LIGHT POLE
ALTA	– AMERICAN LAND TITLE ASSOCIATION	MPH	– MILES PER HOUR
APPROX	– APPROXIMATE	MPP	– METAL POWER POLE
ARV	– AIR RELEASE VALVE	N/A	– NOT APPLICABLE
AVE	– AVERAGE	NAVD	– NORTH AMERICAN VERTICAL DATUM
AVG	– AVERAGE	NAD	– NORTH AMERICAN DATUM
(BB)	– BEARING BASIS	NG	– NATURAL GROUND
BFP	– BACK FLOW PREVENTER	NGS	– NATIONAL GEODETIC SURVEY
BLK	– BLOCK	NGVD	– NATIONAL GEODETIC VERTICAL DATUM
BLDG	– BUILDING	N & D	– NAIL AND DISK
BLVD	– BOULEVARD	NO.	– NUMBER
BM	– BENCH MARK	NR	– NON-RADIAL
BOC	– BACK OF CURB	NSPS	– NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
BOV	– BACK OF WALK	NT	– NON-TANGENT
BSL	– BUILDING SETBACK LINE	NTS	– NOT TO SCALE
BWF	– BARBED WIRE FENCE	OD	– OUTSIDE DIAMETER
C-X	– DENOTES SHEET NUMBERING FOR ENGINEERING PLANS	ORB	– OFFICIAL RECORDS BOOK
(C)	– CALCULATED	OR	– OFFICIAL RECORDS
CATV	– CABLE TELEVISION RISER	OUL	– OVERHEAD UTILITY LINES
CB	– CHORD BEARING	OTL	– OVERHEAD TRAFFIC LINES
CBS	– CONCRETE BLOCK STRUCTURE	PLAT	– PLAT
C.A.R.	– CERTIFIED CORNER RECORD	PL	– PLAT BOOK
C&G	– CURB & GUTTER	PC	– POINT OF CURVATURE
C	– CATCH INLET	PCC	– POINT OF COMPOUND CURVATURE
C/L	– CENTERLINE	PCP	– PERMANENT CONTROL POINT
CLF	– CHAIN LINK FENCE	PFF	– PROPOSED FINISHED FLOOR
CM	– CONCRETE MONUMENT	PG	– PAGE
CMP	– CORRUGATED METAL PIPE	POS	– PAGES
CO	– CLEANOUT	POT	– POINT OF INTERSECTION
CONC	– CONCRETE	PIV	– POST INDICATOR VALVE
COR	– CORNER	PK	– PARKER KAYLON
CRP	– CORRUPTED PLASTIC PIPE	PBI	– POINT OF BEGINNING
CUE	– COUNTY UTILITY EASEMENT	PCC	– POINT OF COMMENCEMENT
CVS	– CAN'T VERIFY SIZE	PL	– POWER POLE
CVS&T	– CAN'T VERIFY SIZE & TYPE	PRC	– POINT OF REVERSE CURVATURE
CWS	– CROSSWALK SIGN	PRM	– PERMANENT REFERENCE MONUMENT
(D)	– DESCRIPTION	PSM	– PROFESSIONAL SURVEYOR & MAPPER
DBH	– DIAMETER AT BREAST HEIGHT IN INCHES	PT	– POINT OF TANGENCY
DE	– DRAINAGE EASEMENT	PVC	– POLYVINYL CHLORIDE PIPE
DEPT	– DEPARTMENT	PVM	– PAVEMENT
DIP	– DUCTILE IRON PIPE	R16E	– RANGE 16 EAST
DR	– DRIVE	RAD	– RADIAL
D/U	– DRAINAGE AND UTILITY EASEMENT	RCP	– REINFORCED CONCRETE PIPE
(E)	– ENGINEERING PLAN	REC	– RECOVERED
EWB	– ELECTRIC JUNCTION BOX	REV	– REVISION
EL	– UNDERGROUND ELECTRICAL LINES	RF	– RADIUS POINT
ELEC	– ELECTRIC	R/W	– RIGHT-OF-WAY
ELEV	– ELEVATION	RLS	– REGISTERED LAND SURVEYOR
ELLIP	– ELLIPTICAL	RP	– RADIUS POINT
EOL	– END OF INFORMATION	RWL	– UNDERGROUND RECLAIM WATER LINE
EOI	– EDGE OF PAVEMENT	RWM	– RECLAIMED WATER METER
EOP	– FIELD BOOK	SEC	– SECTION EASEMENT
FB	– FIRE DEPARTMENT CONNECTION	SEC 6	– SECTION 6
FDOT	– FLORIDA DEPARTMENT OF TRANSPORTATION	SH	– SANITARY SEWER MANHOLE
FF	– FINISH FLOOR	SP	– STATE PLANE
FGLP	– FIBERGLASS LIGHT POLE	SO FT	– SQUARE FEET
FHYD	– FIRE HYDRANT	ST	– STREET
FM	– FORCE MAIN	STMH	– STORM DRAINAGE MANHOLE
FND	– FOUND	S/W	– SIDEWALK
FRAL	– FLORIDA POWER AND LIGHT	TB	– TANGENT BEARING
FS	– FLORIDA STATUTES	T32S	– TOWNSHIP 32 SOUTH
(G)	– GRID (STATE PLANE)	TELE	– TELEPHONE
GL	– UNDERGROUND GAS LINES	TEL	– OVERHEAD TRAFFIC SIGNAL LINES
GOV/T	– GOVERNMENT	TB	– TOP OF BANK
GPR	– GROUND PENETRATING RADAR	TOE	– TOE OF SLOPE LINES
GTHM	– GREASE TRAP MANHOLE	TR	– TRANSVERSE LINES
HDP	– HIGH DENSITY POLYETHYLENE PIPE	UNK	– UNKNOWN BURIED LINES
HWF	– HOG WIRE FENCE	VP	– VINYL FENCE
ID	– IDENTIFICATION	W	– WOOD FENCE
IGV	– IRRIGATION CONTROL VALVE	W	– WOOD FENCE
INFO	– INFORMATION	W	– WOOD FENCE
INV	– INVERT	W	– WOOD FENCE
IP	– IRON PIPE	W	– WOOD FENCE
IP&C	– IRON PIPE & CAP	W	– WOOD FENCE
IR	– IRON ROD	W	– WOOD FENCE
R&C	– IRON REBAR & CAP	W	– WOOD FENCE
I/E	– INGRESS EGRESS EASEMENT	W	– WOOD FENCE
LB#	– ARC LENGTH	W	– WOOD FENCE
LP	– LICENSED BUSINESS NUMBER	W	– WOOD FENCE
(L)	– LIGHT POLE	W	– WOOD FENCE
ME	– MEASURED	W	– WOOD FENCE
MB	– MAP BOOK	W	– WOOD FENCE

**PROPERTY AUDIT REPORT AS OF APRIL 18, 2019
COMPLETED BY MICHELLE PALKA**

DOCUMENT NAME	PARTIES	DOCUMENT EFFECTIVE DATE	RECORDING INFORMATION
EASEMENT	W. W. CARUTH, JR. ("GRANTOR") AND JOSEPH ZAPPALA AND THE SEMBLER FAMILY PARTNERSHIP #1, LTD. ("GRANTEE")	7/30/1983	BOOK 5575, PAGE 1517
GROUND LEASE	WINDWARD PARTNERS IX, LLC ("LANDLORD") AND CFA ("TENANT")	8/15/2004	
GROUND LEASE – 1ST AMENDMENT	WINDWARD PARTNERS IX, LLC ("LANDLORD") AND CFA ("TENANT")	10/13/2004	
SHORT FORM LEASE	WINDWARD PARTNERS IX, LLC ("LANDLORD") AND CFA ("TENANT")	11/5/2004	BOOK 13929, PAGE 1484



State Plane Bearing Basis Detail
NOT TO SCALE

Symbol Legend:

NOT TO SCALE

	– AIR RELEASE VALVE		– LIGHT POLE (DUAL)
	– BORING HOLE LOCATION		– LIGHT POLE (TRIPLE)
	– BRICK PAVERS		– LIGHT POLE (QUAD)
	– CABLE TV RISER		– CONCRETE MITERED END SECTION
	– CENTRAL ANGLE		– CONCRETE PAVERS
	– CLEAN OUT		– CONCRETE RIP RAP
	– COMMUNICATION MANHOLE		– CONCRETE UTILITY POLE
	– CONCRETE		– COUNTY ROAD SYMBOL
	– CONCRETE LIGHT POLE		– CROSSWALK SIGNALING POLE
	– CONCRETE LIGHT POLE (DUAL)		– DETECTABLE WARNING AREA
	– CONCRETE LIGHT POLE (TRIPLE)		– DUAL SUPPORT SIGN
	– CONCRETE LIGHT POLE (QUAD)		– ELECTRICAL MANHOLE
	– CONCRETE MITERED END SECTION		– ELECTRIC METER
	– CONCRETE PAVERS		– ELECTRICAL JUNCTION BOX
	– CONCRETE RIP RAP		– ELECTRIC OUTLET
	– CONCRETE UTILITY POLE		– ELECTRIC RISER
	– COUNTY ROAD SYMBOL		– FIBER OPTIC MARKER
	– CROSSWALK SIGNALING POLE		– FIRE DEPARTMENT CONNECTION
	– DETECTABLE WARNING AREA		– FIRE HYDRANT
	– DUAL SUPPORT SIGN		– FLOOD LIGHT
	– ELECTRICAL MANHOLE		– FOUND CONCRETE MONUMENT (AS NOTED)
	– ELECTRIC METER		– FOUND IRON PIPE (AS NOTED)
	– ELECTRICAL JUNCTION BOX		– FOUND IRON REBAR (AS NOTED)
	– ELECTRIC OUTLET		– FOUND/SET NAIL (AS NOTED)
	– ELECTRIC RISER		– GARBAGE CAN
	– FIBER OPTIC MARKER		– GAS MARKER
	– FIRE DEPARTMENT CONNECTION		– GAS VALVE
	– FIRE HYDRANT		– GOPHER TORTOISE HOLE
	– FLOOD LIGHT		– GRATE INLET
	– FOUND CONCRETE MONUMENT (AS NOTED)		– GRAVEL/DIRT
	– FOUND IRON PIPE (AS NOTED)		– GREASE TRAP MANHOLE
	– FOUND IRON REBAR (AS NOTED)		– GROUND LIGHT
	– FOUND/SET NAIL (AS NOTED)		– GUY ANCHOR
	– GARBAGE CAN		– HANDICAP PARKING SPACE
	– GAS MARKER		– INTERSTATE SYMBOL
	– GAS VALVE		– IRRIGATION CONTROL VALVE
	– GOPHER TORTOISE HOLE		– LIGHT POLE
	– GRATE INLET		– LIGHT POLE (DUAL)
	– GRAVEL/DIRT		
	– GREASE TRAP MANHOLE		
	– GROUND LIGHT		
	– GUY ANCHOR		
	– HANDICAP PARKING SPACE		
	– INTERSTATE SYMBOL		
	– IRRIGATION CONTROL VALVE		
	– LIGHT POLE		
	– LIGHT POLE (DUAL)		



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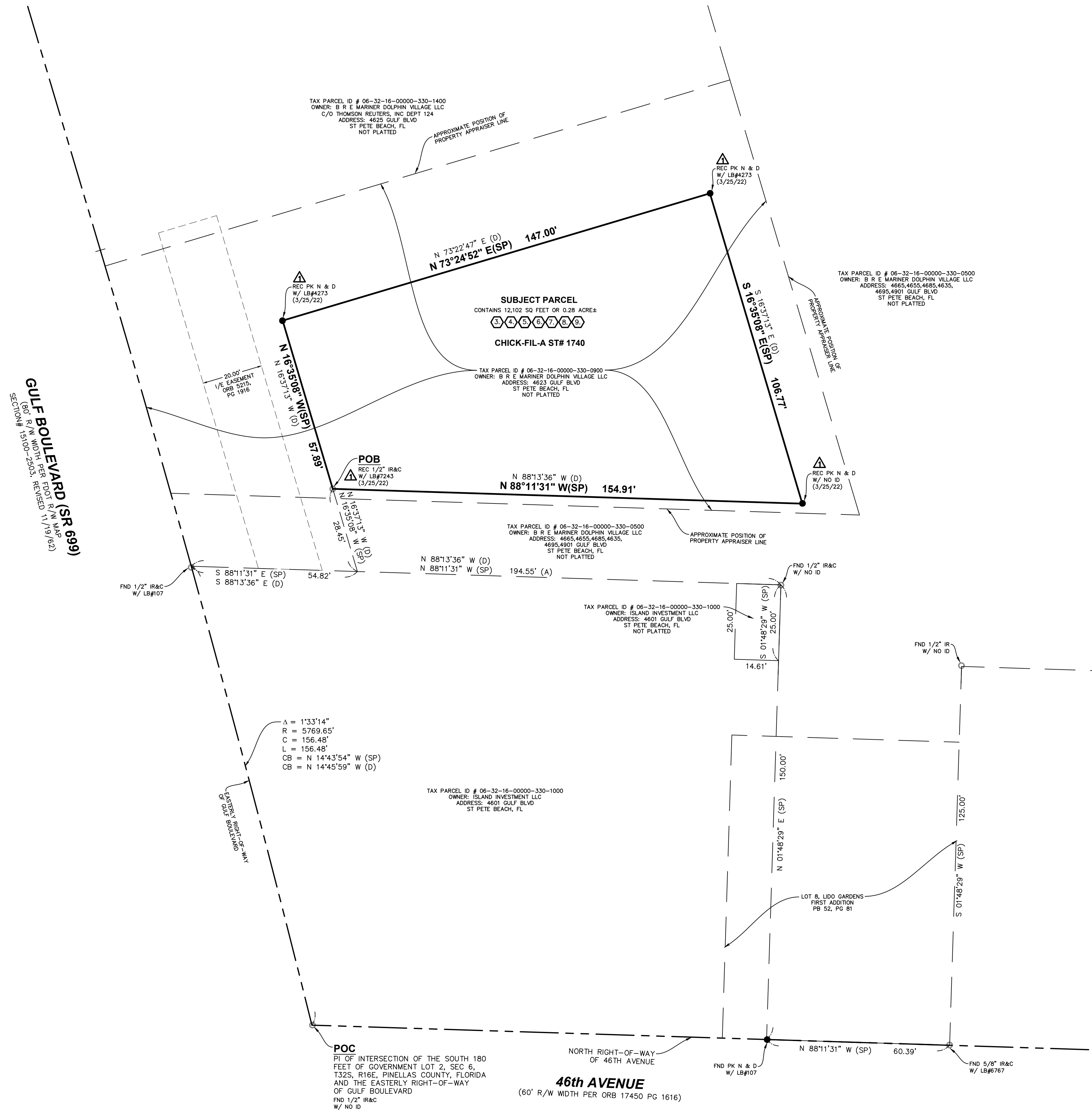
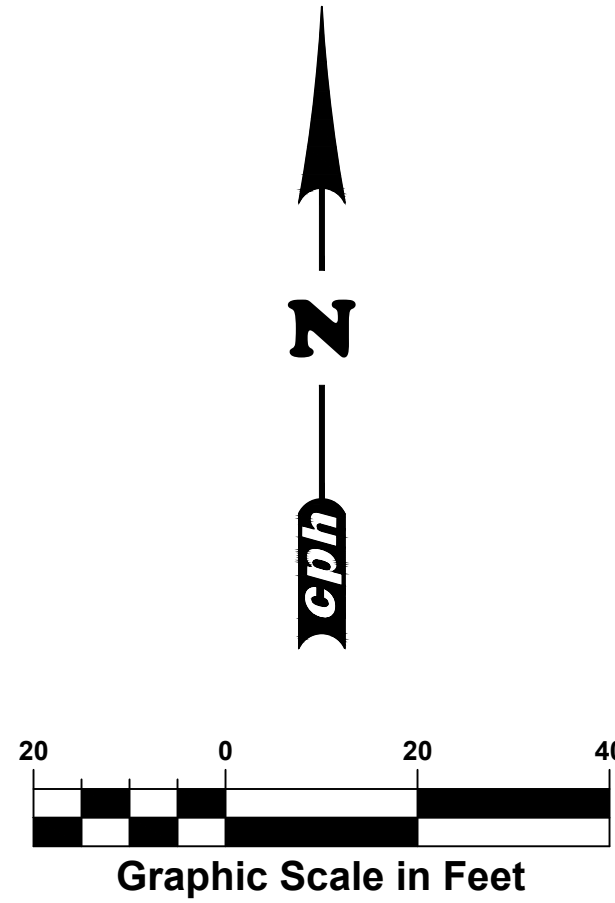
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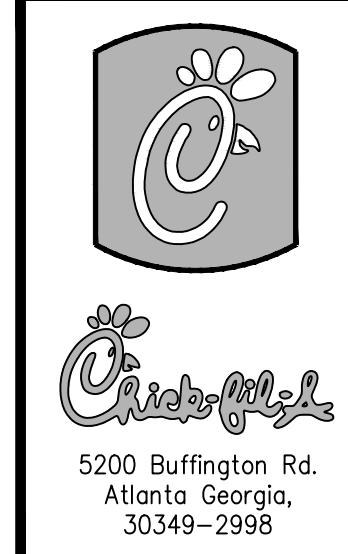
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NOTE:
THIS SURVEY IS NOT VALID WITHOUT SHEETS C-1.1, C-1.1A & C-1.1B

TITLE BLOCK ABBREVIATIONS
Eng. = ENGINEERING L.R. = LICENSED BUSINESS
C.O.A. = CERTIFICATE OF AUTHORIZATION Arch. = ARCHITECTURAL
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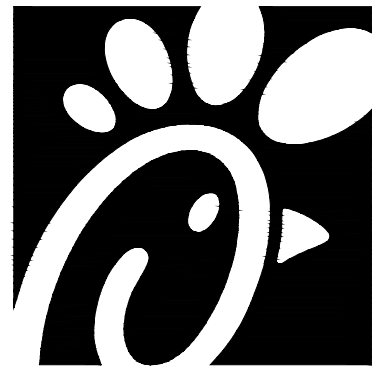
BOUNDARY & TOPOGRAPHIC SURVEY
(ALTA/NSPS LAND TITLE SURVEY)
CHICK-FIL-A, INC.
STORE #1740
4623 GULF BLVD, ST PETE BEACH, FL 33706
SECTION 06-TOWNSHIP 32 SOUTH-RANGE 16 EAST
PINELLAS COUNTY, FLORIDA

Sheet No.
C-1.1A

CONSTRUCTION PLANS FOR



4623 GULF BLVD., ST PETE BEACH, FLORIDA 33706
STORE NO. 01740
SECTION 06 - TOWNSHIP 32 SOUTH - RANGE 16 WEST
PARCEL ID: 06-32-16-00000-330-0900

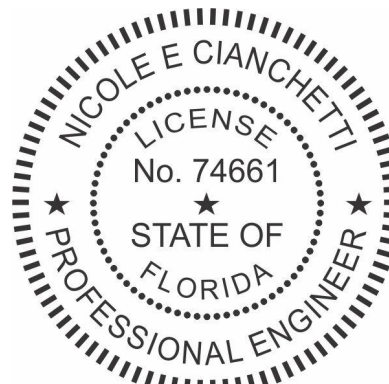


Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

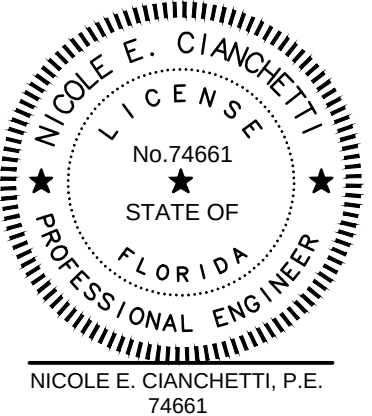


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State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect No. AA26000926
Landscape No. LC000298



Digitally signed by
Nicole E. Cianchetti
DN: C=US, O=Florida,
dnQualifier=A01410C0
00001849A99B09A000
2E6E2, CN=Nicole E.
Cianchetti
Reason: I am the
author of this document
Location: your signing
location here
Date: 2022.11.28
11:22:51-05'00'



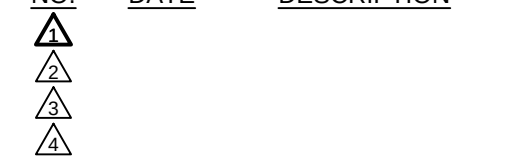
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CHICK-FIL-A
St. Pete Beach
4623 Gulf Blvd.
St. Pete Beach, Florida
33706

FSR#01740

BUILDING TYPE / SIZE: S03-SERIES
RELEASE: vX.YY.MM

REVISION SCHEDULE
NO. DATE DESCRIPTION



CONSULTANT PROJECT # C29146

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SHEET
COVER SHEET

SHEET NUMBER

C-1.0

CONSULTANTS

LESSEE/DEVELOPER

BRE MARINER DOLPHIN VILLAGE, LLC
C/O THOMAS REUTERS, INC DEPT 124
PO BOX 4900
SCOTTSDALE AZ 85261-4900

ENGINEER

CPH, INC.
1117 EAST ROBINSON STREET.
ORLANDO, FLORIDA 32801
PHONE 407-425-0452
ATTN.: NICOLE E. CIANCHETTI, P.E.
ncianchetti@cphcorp.com

SURVEYOR

CPH, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
ATTN.: THOMAS J. GALLOWAY, P.S.M.
(407) 322-6841
tgalloway@cphcorp.com

ARCHITECT

CPH, INC
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
ATTN.: BROOK SHERRARD, A.I.A
(407) 322-6841
bsherrard@cphcorp.com

UTILITY PROVIDERS

ELECTRIC

DUKE ENERGY
FLORIDA
ATTN.: SHAWN ALVAREZ
(727) 443-2641
Shawn.Alvarez@Duke-Energy.com

TELEPHONE / INTERNET

SPECTRUM BUSINESS
233 31ST ST. N
ST. PETE FL
ATTN.: CHAD GUARNIERI
(866) 874-2389
chad.guarnieri@charter.com

SEWER

CITY OF ST PETE BEACH UTILITIES
155 COREY AVE. ST.
ST PETE BEACH, FL 33706
(727) 367-2735,

WATER

PINELLAS COUNTY UTILITIES
14S FORT HARRISON AVE., CLEARWATER 33756
ATTN.: JANELLE OSTROWSKI
(727) 464-3437,
jostrowski@pinellascounty.ORG

GAS

TECO PEOPLES GAS
8416 PALM RIVER RD.
TAMPA, FLORIDA 33619
ATTN.: RANDY SORTORE
(813) 917-6168

APPROVAL AGENCIES

CITY

ST PETE BEACH PLANNING DEPARTMENT
115 S. COREY AVE.
ST PETE BEACH, FL 33706
ATTN.: BRANDON BERRY, PLANNER
(727) 367-2735,
bberry@stpetebeach.org

TRAFFIC

ST PETE BEACH
155 CONLEY AVEN. .
ST PETE BEACH, FL 33706
ATTN.: BRETT WARNER, CITY ENGINEER
(727) 363-9254,
bwarner@stpetebeach.org

STORM DRAINAGE

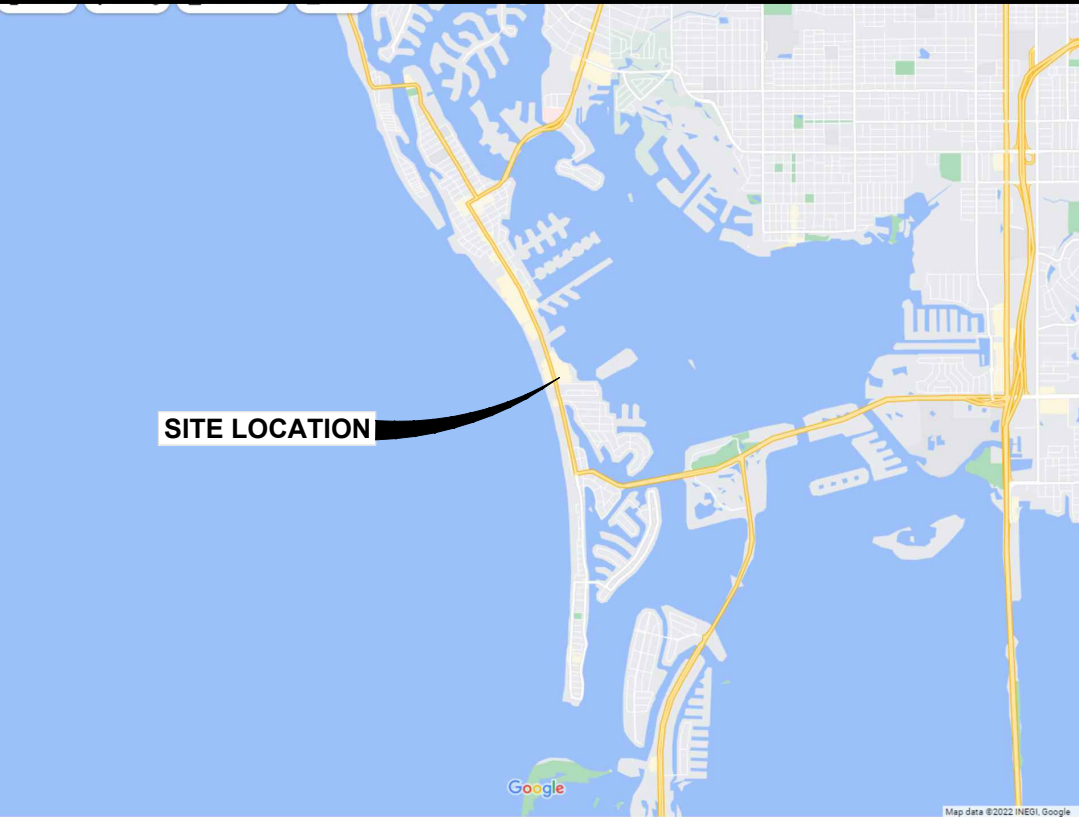
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD)
7601 US HIGHWAY 301, TAMPA FL
ATTN.: ROB MCDANIEL, ERP EVALUATION MANAGER
(727) 985-7481,
rob.mcdaniel@swfwmd.state.fl.us

INDEX OF SHEETS

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- C-1.2 EROSION AND SEDIMENTATION CONTROL PLAN
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- C-4.0 CHICK-FIL-A STANDARD DETAILS
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NOTES

MAPS



VICINITY MAP

SCALE: 1" = 8,000'



LOCATION MAP

SCALE: 1" = 500'

GENERAL PROVISIONS

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAKE A PRE-CONSTRUCTION VIDEO (DVD FORMAT) ALONG THE PROPOSED ROUTE IN ACCORDANCE WITH THE SPECIFICATIONS. IN PARTICULAR, THE VIDEO SHALL DOCUMENT THE CONDITION OF EXISTING DRIVEWAYS, BUILDINGS, STRUCTURES, MAILBOXES, SIGNS, FENCES, AND LANDSCAPING ALONG PROPOSED CONSTRUCTION AREAS.
2. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
3. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. IN ORDER TO MEET THESE REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP, COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. FOR PROJECTS LESS THAN 1 ACRE IN SIZE THAT ARE NOT REQUIRED TO COMPLY WITH THE NPDES GENERAL PERMIT, THE CONTRACTOR IS STILL RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
5. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION HAS BEEN PREPARED BY OTHER PROFESSIONALS. CPH, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.
6. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. CPH, INC. IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.
7. THE CONTRACTOR SHALL SUBMIT (3) COPIES OF SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL THOROUGHLY CHECK SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES FOR COMPLETENESS AND FOR COMPLIANCE WITH THE CONSTRUCTION PLANS AND SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL COORDINATE THE SHOP DRAWINGS WITH THE REQUIREMENTS FOR OTHER RELATED WORK. THE CONTRACTOR'S RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SUBMITTALS IS NOT RELIEVED BY THE ENGINEER'S REVIEW OF SUBMITTALS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING AT THE TIME OF SUBMISSION, OF DEVIATIONS IN SUBMITTALS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
8. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED, AS NECESSARY, BY SAME.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. AS A MINIMUM, TESTING SHALL INCLUDE A) PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS; B) DETERMINATION OF COMPACTIVE EFFORT NEEDED FOR COMPLIANCE WITH THE DENSITY REQUIREMENTS; C) PORTLAND CEMENT CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.
10. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS FOR ANY WORK (OR ANY PART THEREOF) IF LAWS OR REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION SPECIFICALLY REQUIRE TESTING, INSPECTIONS OR APPROVAL. THE CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION THEREWITH AND SHALL FURNISH THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES OF INSPECTION, TESTING OR APPROVAL.
11. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED IN WRITING, AND COMPLYING WITH THE LATEST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION", PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES.
12. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS.
13. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. CLEAN ALL INSTALLED SIGNS, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, PLUS ALL ADJACENT AREAS AFFECTED BY CONSTRUCTION, AS DIRECTED BY THE OWNER OR JURISDICTIONAL AGENCY. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE OWNER.

UTILITY GENERAL NOTES

1. THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE.
2. THE LOCATION, MATERIAL, TYPE, AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ANY UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER AND THE RESPECTIVE UTILITY COMPANY FOR RELOCATION OR PROPER INSTRUCTION.
3. A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. THE CONTRACTOR IS TO CONTACT THE FLORIDA STATE ONE CALL CENTER BY DIALING "811" AT LEAST TWO (2) AND NO MORE THAN FIVE (5) WORKING DAYS PRIOR TO THE SPECIFIC CONSTRUCTION AT THE FIELD LOCATION. NOTE THAT NOT ALL UTILITIES PARTICIPATE IN THIS PROGRAM. THE CONTRACTOR SHOULD CONTACT ALL NON-PARTICIPATING UTILITIES SEPARATELY FOR FIELD LOCATION OF THEIR FACILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.
4. SEE COVER SHEET FOR UTILITIES THAT HAVE PREVIOUSLY INDICATED THAT THEY MAY HAVE FACILITIES IN THE VICINITY OF THE CONSTRUCTION AREA.
5. THE CONTRACTOR SHALL KEEP LOCATE TICKETS UP TO DATE AT ALL TIMES.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH EACH UTILITY AND ALL COSTS ASSOCIATED WITH THE PROTECTION OF EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE NECESSARY RELOCATIONS OR OTHER CONSTRUCTION RELATED MATTERS WITH EACH UTILITY.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE ENGINEER.
8. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER AND SEWER SERVICES AND LATERALS WITHIN THE PROPOSED CONSTRUCTION AREA PRIOR TO CONSTRUCTION AND ADJUST THE PROPOSED CONSTRUCTION AS NEEDED TO ACCOMMODATE THESE EXISTING LINES.
9. TYPICAL DETAILS AND PROPOSED CONSTRUCTION AS SHOWN ILLUSTRATE THE ENGINEER'S INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER THE PROPOSED CONSTRUCTION TO SUIT FIELD CONDITIONS, PROVIDED IT COMPLIES WITH THE PROJECT SPECIFICATIONS AND APPROVAL IS RECEIVED FROM THE ENGINEER. WHERE SUCH PROPOSED REVISIONS DEVIATE FROM THE FDEP CONSTRUCTION PERMIT, THEN SUCH REVISIONS WILL ALSO REQUIRE APPROVAL FROM FDEP.
10. FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH, SIZE, MATERIAL TYPE, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. TO BE CROSSED OR CONNECTED TO. IF THE CONTRACTOR DEEMS NECESSARY (A) A CHANGE IN ALIGNMENT OR DEPTH, OR THE NEED FOR ADDITIONAL FITTINGS, BENDS, OR COUPLINGS, WHICH REPRESENT A DEPARTURE FROM THE CONTRACT DRAWING, OR (B) A NEED FOR RELOCATION OF EXISTING UTILITIES, THEN DETAILS OF SUCH DEPARTURES, RELOCATIONS, OR ADDITIONAL FITTINGS, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROJECT AND THE PROJECT'S SHOP DRAWINGS, SHALL BE SUBMITTED TO THE ENGINEER. APPROVED DEPARTURES FOR THE CONTRACTOR'S CONVENIENCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
11. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC, LEAKAGE, AND PRESSURE TESTING. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND THE OWNER IN WRITTEN FORM, FORTY-EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION.

AS-BUILT DRAWING REQUIREMENTS

1. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER AT LEAST THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY.
2. ALL RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN ACAD FORMAT USING CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER. AS-BUILT INFORMATION SHALL BE FIELD VERIFIED, MEASURED, ADDED TO THE ACAD FILES OF THE CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER, AND

- CERTIFIED, SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED SURVEYOR WHO WILL BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND ELEVATIONS. SHEET SIZES AND THE SCALE OF THE RECORD DRAWINGS SHALL MATCH SHEET SIZING AND SCALE OF THE CONSTRUCTION PLANS. ADD BLOWUP DETAILS IF NECESSARY.
3. THE X, Y AND (Z) LOCATION BASED ON THE COORDINATE SYSTEM FLORIDA EAST ZONE STATE PLANE COORDINATE FEET NAD 83, OF ALL VALVES (CENTER OF PIPE), MANHOLES, INLETS, VALVE BOXES (GRADE), HYDRANTS (GRADE), BLOW OFFS (GRADE), SAMPLE POINTS (GRADE) AND METER BOXES (GRADE) ETC. SHALL BE CLEARLY SHOWN. ACCEPTABLE POSITION ACCURACY SHALL BE SUB-METER OR BETTER FOR COMPATIBILITY WITH GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT. THE VERTICAL DATUM USED SHALL BE NAVD 88 UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS.
4. THE SURVEYED AS-BUILT LOCATION OF THE NEWLY CONSTRUCTED FACILITIES SHALL BE IN AN ACAD OVERALL BASE DRAWING WHICH IS IN STATE PLANE. PROVIDING "PAPER SPACE" VIEWS THAT ARE NOT IN STATE PLANE OF THE CONSTRUCTED FACILITIES IS NOT ACCEPTABLE. PROVIDING NORTHING AND EASTING POINT TABLES ON SEPARATE NEW SHEETS ADDED TO THE CONSTRUCTION PLANS IS NOT ACCEPTABLE. THE AS-BUILT NORTHING AND EASTING DATA MUST BE ON THE INDIVIDUAL CONSTRUCTION PLAN SHEETS TO WHICH THE DATA APPLIES.
5. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- A. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.
- B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.
- C. STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF 10 FEET FROM THE STRUCTURE. FOR POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.
- D. STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.
- E. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.
- F. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS OF ALL UTILITY VALVES, FITTINGS, CONNECTION POINTS, ETC.
- G. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.
- H. GRADE ELEVATION ABOVE UTILITY PIPELINE WHERE VERTICAL ELEVATIONS ARE REQUIRED AT ALL UTILITY VALVES, FITTINGS, CONNECTION POINTS, ETC.
- I. UTILITY PIPELINE TIED HORIZONTALLY TO EDGE OF PAVEMENT AND RIGHT-OF-WAY LINES, LOCATED EVERY 200-FT PLUS ALL CHANGES IN HORIZONTAL OFFSET.
- J. VERTICAL ELEVATIONS OF THE TOP OF CASING AND TOP OF CARRIER PIPE MEASURED AT EACH END OF CROSSINGS THAT HAVE BEEN JACK AND BORED.
- K. HORIZONTAL LOCATIONS (STATE PLANE COORDINATES AND STATIONS AND OFFSETS) OF EACH END OF STEEL CASING PIPE (ALSO PROVIDE DISTANCE FROM EDGE OF PAVEMENT AND ADJACENT RIGHT-OF-WAY LINES).
- L. PIPELINE THAT IS DIRECTIONAL BORED IS TO BE HORIZONTALLY AND VERTICALLY LOCATED EVERY 20' ALONG THE BORING. PROVIDE THIS INFORMATION BY SUBMITTING BORING LOGS AND BY DRAWING THE AS-BUILT VERTICAL AND HORIZONTAL LOCATIONS OF THE BORED PIPELINE ON THE RECORD DRAWINGS BASED ON THE BORING LOGS. PROVIDE STATE PLANE COORDINATES AT EACH END OF DIRECTIONAL BORED PIPELINE.
- M. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.
- N. ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.
- O. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.
- P. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.
- Q. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.
6. RECORD DRAWINGS ARE TO BE PREPARED BY THE CONTRACTOR, CERTIFIED BY THE CONTRACTOR'S LICENSED SURVEYOR, AND DELIVERED TO THE ENGINEER FOR REVIEW. THE ENGINEER WILL REVIEW THE DRAWINGS FOR COMPLETENESS IN ACCORDANCE WITH THE REQUIREMENTS OF THESE NOTES WITHIN SEVEN (7) FULL WORKING DAYS. FOR PRELIMINARY REVIEW, SUBMITTAL IN ACAD AND PDF FORMAT IS SUFFICIENT AND SIGNED AND SEALED DRAWINGS ARE NOT NECESSARY. FINAL SUBMITTAL OF COMPLETE RECORD DRAWINGS SHALL CONSIST OF ONE SET SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED SURVEYOR PLUS ACAD AND PDF FILES OF THE RECORD DRAWINGS DELIVERED TO THE ENGINEER. IF THE DRAWINGS ARE FOUND TO BE INCOMPLETE OR INACCURATE, THE DRAWINGS WILL BE RETURNED TO THE CONTRACTOR FOR CORRECTION.
7. IN CASES WHERE THE OWNER DETERMINES PARTIAL CLEARANCES FROM PERMITTING AGENCIES ARE BENEFICIAL TO THE OWNER FOR COMPLETED PORTIONS OF THE PROJECT, PROVIDE PRELIMINARY RECORD DRAWINGS (ACAD FORMAT) TO THE ENGINEER FOR ITS USE IN PREPARING THE PARTIAL CLEARANCE APPLICATIONS FOR THE OWNER.
8. COMPLETE SIGNED AND SEALED RECORD DRAWINGS ARE REQUIRED TO BE DELIVERED TO THE OWNER PRIOR TO FINAL INSPECTION OF THE PROJECT. FINAL INSPECTIONS WILL ONLY BE SCHEDULED UPON RECEIPT OF SIGNED AND SEALED RECORD DRAWINGS THAT HAVE BEEN REVIEWED BY THE ENGINEER AND DELIVERED BY THE ENGINEER TO THE OWNER.

SITE PREPARATION

1. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR

- RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.
2. STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING FEATURES. REPORT ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE COMMENCING WORK.
3. PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.
4. WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW TREES AND SHRUBS TO REMAIN IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: NEW ROADWAY CONSTRUCTION - TREES AND SHRUBS TO REMAIN WHERE LOCATED MORE THAN 15 FEET FROM THE BACK OF CURB, OR OUTSIDE THE LIMITS OF EXCAVATION OR FILL AREAS, WHICHEVER IS FURTHER. UTILITY PIPELINE CONSTRUCTION - TREES AND SHRUBS TO REMAIN OUTSIDE A 15 FOOT WIDE PATH, CENTERED ON THE PIPELINE.
5. TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN BRANCH SPREAD.
6. AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES. REMOVE TREES OUTSIDE OF THESE AREAS ONLY AS INDICATED ON THE DRAWINGS OR AS APPROVED IN WRITING BY THE ENGINEER.
7. CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCROACH UPON OR OTHERWISE OBSTRUCT THE WORK.
8. EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.
9. GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2" IN DIAMETER, AND MATED RED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND.
10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.
- DEWATERING**
1. DESIGN AND PROVIDE A DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE A DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS. DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. WHERE NECESSARY TO THESE PURPOSES, LOWER WATER LEVEL, IN ADVANCE OF EXCAVATION, UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE METHODS, MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF DIRECTED BY THE ENGINEER TO DOCUMENT THE GROUNDWATER LEVEL IS BEING MAINTAINED.
2. CONTROL, BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.
3. DEWATERING DISCHARGE FROM THE SITE SHALL COMPLY WITH ALL NPDES GENERAL PERMIT REQUIREMENTS AND STATE WATER QUALITY STANDARDS. PROVIDE ALL TESTING AND PERMITTING REQUIRED AND COMPLY WITH ALL TREATMENT OR DISPOSAL METHODS REQUIRED TO MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
4. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED, PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS. DURING NORMAL PUMPING, AND UPON DEVELOPMENT OF WELLS(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED 5 PPM.
5. IF DEWATERING EQUIPMENT NEEDED EXCEEDS ANY OF THE FOLLOWING: 1) 6" PUMP VOLUTE; 2) 100,000 GPD TOTAL 24 HOUR (1 DAY) DEWATERING, AND; 3) 1,000,000 GPD PUMP CAPACITY, THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE WATER MANAGEMENT DISTRICT.
6. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION IS COMPLETED. THE EXISTING OR PROPOSED RECLAIMED WATER MAIN, WASTEWATER FORCE MAIN, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.
7. WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.
- GRADING**
1. GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS AND SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOLITION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
2. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. THE STANDARD CROWN MAY HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.
3. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE REFINISHED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE GRADER OPERATIONS.
4. SLOPE GRADES TO DRAIN AWAY FROM STRUCTURES AT A MINIMUM OF ¼-INCH PER FOOT FOR 10 FEET. FINISHED SURFACES ADJACENT TO PAVED AREAS AND WITHIN 10 FEET OF STRUCTURES SHALL BE WITHIN 1 INCH OF THE PROPOSED GRADE. ALL OTHER AREAS SHALL BE WITHIN 3 INCHES OF THE PROPOSED GRADE.
5. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AND THAT MAY OCCUR PRIOR TO ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATION, TRENCHING, AND FILL**
1. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
2. ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE START OF SITE GRADING ACTIVITIES. DIRECT SITE RUNOFF TO THE PONDS TO MINIMIZE RUNOFF TO OFFSITE AREAS.
3. POND CONSTRUCTION SHALL RESULT IN THE FINISHED POND HAVING SIDE SLOPES AND DIMENSIONS THAT ARE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS HAVE BEEN MET. IF THE CONSTRUCTED SIDE SLOPES ARE STEEPER THAN THE REQUIRED SIDE SLOPES, OR THE POND VOLUME IS NOT WITHIN THREE (3) PERCENT OF THE DESIGN VOLUME, THE CONTRACTOR MAY BE REQUIRED TO MAKE CORRECTIONS TO THE POND AT NO ADDITIONAL COST TO THE OWNER.
4. FIELD DENSITY TESTING FREQUENCIES: A) ONE TEST FOR EACH 10,000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING, MINIMUM 2 TESTS EACH LAYER; B) ONE TEST FOR EACH 100 SQUARE FEET OR FRACTION THEREOF OF BACKFILL AROUND AND UNDER STRUCTURES; C) ONE TEST FOR EACH 300 LINEAL FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING IN THE PIPELINE TRENCH; D) ONE TEST PER LIFT PER EACH CHANGE IN TYPE OF FILL; E) ONE TEST PER 1000 SQUARE FEET OF PAVEMENT SUBGRADE, MINIMUM OF 2 TESTS.
5. IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE.
- A. ACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-1, A-3, A-2-4, A-2-6; ASTM D2487 CLASSIFICATION GW, GP, GM, GC, SM, SW, SP; UNLESS OTHERWISE DISAPPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS. NO MORE THAN 12% OF ACCEPTABLE MATERIALS SHALL PASS THE NUMBER 200 SIEVE.
- B. UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2-5, A-2-7, A-4, A-5, A-6, A-7, A-8; ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT; UNLESS OTHERWISE APPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS.
6. PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS.

7. SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS AUTHORIZED BY THE ENGINEER, IN WHICH CASE ADEQUATE TEMPORARY PROVISIONS MUST BE MADE FOR SATISFACTORY TEMPORARY PASSAGE OF PEDESTRIANS, AND VEHICLES. MINIMIZE INCONVENIENCE TO PUBLIC TRAVEL OR TO TENANTS OCCUPYING ADJOINING PROPERTY.
8. FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING TO INTERCONNECT WITH EXISTING STRUCTURES OR EASEMENTS PROVIDED. TO SUPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. VOIDS OUTSIDE THE SUPPORTS SHALL BE IMMEDIATELY FILLED AND COMPACTED.
9. SHEETING, SHORING, AND BRACING USED FOR THE SUPPORT OF EXCAVATIONS OVER 20 FEET DEEP SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF FLORIDA.
10. ALL EXCAVATIONS SHALL BE MADE BY OPEN CUT UNLESS OTHERWISE INDICATED. SLOPE SIDES OF TRENCHES IN ACCORDANCE WITH OSHA REQUIREMENTS AND THE RECOMMENDATIONS CONTAINED WITHIN THE PROJECT GEOTECHNICAL REPORT.
11. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED FOR INDICATED FLOW LINES AND INVERT ELEVATIONS. OVER EXCAVATE TRENCHES A MINIMUM OF 2 FEET WHERE EXCAVATIONS OCCUR WITHIN UNSUITABLE SOILS, AND REPLACE OVER EXCAVATED MATERIAL WITH SUITABLE SOILS.
12. EXCEPT AS OTHERWISE INDICATED, EXCAVATE FOR PRESSURE PIPING SO TOP OF PIPING IS MINIMUM 3 FEET BELOW FINISHED GRADE.
13. TRENCH BOTTOMS AND THE BOTTOMS OF ALL STRUCTURES SHALL BE KEPT DRY, COMPACTED, AND STABLE TO A DEPTH TWO FEET BELOW THE BOTTOM OF THE TRENCH OR STRUCTURE.
14. ALL BEDDING, FILL, AND BACKFILL MATERIAL SHALL BE SUITABLE SOILS OR FLOWABLE FILL. WHERE TRENCH OR EXCAVATION IS WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, FOUNDATIONS, OR SLABS, PLACE BACKFILL IN LAYERS OF 8 INCH LOOSE DEPTH. IN ALL OTHER AREAS, PLACE FILL AND BACKFILL IN LAYERS OF 12 INCH LOOSE DEPTH.
15. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T180): BACKFILL AND FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL PLACED WITHIN PUBLIC ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED IN ALL OTHER AREAS = 90 PERCENT.

RIPRAP

ALL RIPRAP CONSTRUCTION SHALL MEET THE REQUIREMENTS OF SECTION 530 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

UTILITY SEPARATION REQUIREMENTS

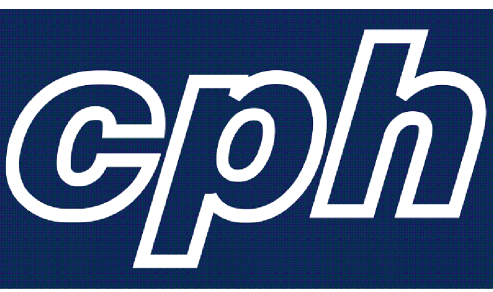
1. THE HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER, STORM SEWER, WASTEWATER FORCE MAINS, STORMWATER FORCE MAINS, RECLAIMED WATER MAINS AND ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- A. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF THREE FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, VACUUM TYPE SANITARY SEWER AND RECLAIMED WATER MAIN.
- B. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF SIX FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN THE OUTSIDE OF WATER MAINS AND THE OUTSIDE OF GRAVITY SANITARY SEWERS CAN BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
- C. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF TEN FEET FROM ALL PARTS OF ANY EXISTING OR PROPOSED ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.
2. THE VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY AND STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- A. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OUTSIDE OF THE SEWER. WHERE IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, THEN THE WATER MAIN CAN CROSS UNDER THESE TYPES OF PIPELINE SYSTEMS PROVIDED THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE PIPELINE. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM VACUUM TYPE SANITARY SEWER OR STORM SEWER JOINTS, AND AT LEAST SIX FEET FROM GRAVITY SANITARY SEWER JOINTS.
- B. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED RECLAIMED WATER MAINS, WASTEWATER FORCE MAINS AND STORMWATER FORCE MAINS. WHETHER THE WATER MAIN CROSSES OVER OR UNDER THESE TYPES OF PIPELINE SYSTEMS, THE OUTSIDE OF THE WATER MAIN SHALL BE AT LEAST 12 INCHES FROM THE OUTSIDE OF THE EXISTING OR PROPOSED RECLAIMED WATER MAIN, WASTEWATER FORCE MAIN AND STORMWATER FORCE MAIN. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM RECLAIMED WATER MAIN JOINTS AND STORMWATER FORCE MAIN JOINTS, AND AT LEAST SIX FEET FROM THE JOINTS OF WASTEWATER FORCE MAINS.
3. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE.
4. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST:
- A. THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER.
- B. SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN.
- C. TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.
5. THE FOLLOWING ARE ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES TO BE CONSIDERED FOR COST EVALUATION WITH NO GUARANTEE THEY WILL BE APPROVED FOR IMPLEMENTATION WHERE IT IS NOT POSSIBLE TO MEET THE SEPARATION REQUIREMENTS. EXCEPTIONS FROM MEETING THE PIPE SEPARATION REQUIREMENTS, WITHOUT MITIGATION, SHALL BE ALLOWED ONLY BY FDEP IF TECHNICAL OR ECONOMIC JUSTIFICATIONS FOR EACH EXCEPTION PROVIDED BY THE ENGINEER ARE ACCEPTABLE TO FDEP AND ARE ONLY TO BE IMPLEMENTED UPON RECEIPT OF EXPRESSED WRITTEN CONSENT FROM THE ENGINEER AND APPROVAL FROM FDEP ON A CASE BY CASE BASIS. ALL POSSIBLE MEASURES TO ACHIEVE COMPLIANCE WITH THE PIPE SEPARATION REQUIREMENTS SHALL BE CONSIDERED FIRST ALONG WITH DESIGN CHANGES TO MEET THE REQUIREMENTS BEFORE THE ENGINEER SUBMITS A JUSTIFICATION OF AN EXCEPTION TO FDEP FOR APPROVAL. IMPLEMENTATION OF THESE MEASURES WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER AND APPROVAL BY FDEP COULD RESULT IN THE REQUIREMENT THAT THE INSTALLED UNAPPROVED MEASURES BE REMOVED AND REPLACED AT NO ADDITIONAL COST.

- A. WHERE A WATER MAIN IS LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE LESS THAN THE MINIMUM REQUIRED DISTANCE BETWEEN THE JOINTS IN THE OTHER PIPELINE.
- 1) USE OF PRESSURE RATED PIPE CONFORMING TO AWWA STANDARDS FOR A GRAVITY OR VACUUM TYPE PIPELINE.
- 2) USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER PIPELINE.
- 3) USE OF WATER TIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER PIPE.
- B. WHERE A WATER MAIN IS LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE LESS THAN THE REQUIRED MINIMUM SEPARATION:
- 1) USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO 0.25 INCH THICK DUCTILE IRON PIPE), OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN AND FOR THE OTHER PIPELINE IF THE OTHER PIPELINE COVEYS WASTEWATER OR RECLAIMED WATER.



Chick-fil-A

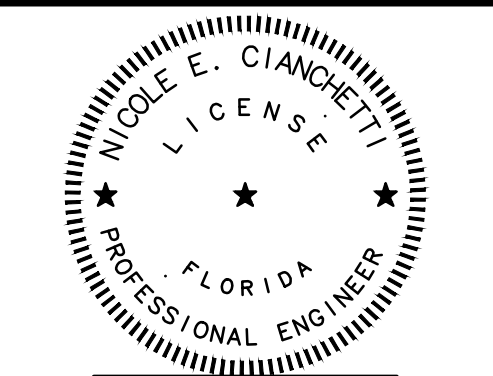
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5200 Buffington Road
Atlanta, Georgia
30349-2998



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NICOLE E. CIANCHELLI, P.E.
74661

This item has been digitally signed and sealed by NICOLE E. CIANCHELLI, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHICK-FIL-A
St. Pete Beach
4623 Gulf Blvd.
St. Pete Beach, Florida
33706

FSR#01740

BUILDING TYPE / SIZE: S03-SERIES
RELEASE: vX.YY.XM

REVISION SCHEDULE		
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CONSULTANT PROJECT #		C29146
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DATE		8/11/2022
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SHEET GENERAL NOTES		

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SHEET NUMBER
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WATER AND RECLAIMED WATER DISTRIBUTION SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE WATER AND RECLAIMED WATER SYSTEMS SHOWN ON THESE PLANS IS CHICK-FIL-A. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE CITY OF ST.PETE BEACH.
2. ALL WATER AND RECLAIMED MAIN PIPE SHALL BE EITHER DUCTILE IRON OR PVC, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. INSTALL ALL WATER AND RECLAIMED MAINS AT A MINIMUM 36 INCHES OF COVER.
4. BURIED DUCTILE IRON PIPE SHALL CONFORM WITH ANSIIAWWA C150/A21.50 AND C151/A21.51, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. BURIED PIPE SHALL COMPLY WITH THE FOLLOWING PRESSURE CLASS (PC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 12" DIAMETER AND SMALLER = PC 350; B) 14" THROUGH 24" DIAMETER = PC 250; C) 30" THROUGH 64" DIAMETER = PC 200.
5. EXPOSED PIPE 4" AND LARGER SHALL BE DUCTILE IRON FLANGED AND SHALL CONFORM WITH AWWA/ANSI C115/A21.15, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. FLANGED PIPE SHALL COMPLY WITH THE FOLLOWING THICKNESS CLASS (TC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 4" DIAMETER = TC 54; B) 6" THROUGH 24" DIAMETER = TC 53
6. DUCTILE IRON PIPE AND FITTINGS WITHIN 10 FEET OF GAS MAINS SHALL HAVE AN 8-MIL POLYETHYLENE WRAP IN ACCORDANCE WITH ANSIIAWWA C105/A21.5.
7. PVC PIPE 4" - 30" SHALL CONFORM TO AWWA C900. PIPE SHALL CONFORM TO ASTM D1784, TYPE I, GRADE I, 4000 PSI DESIGN STRESS, AND SHALL BE NATIONAL SANITATION FEDERATION (NSF) APPROVED. PIPE SHALL BE CLASS 235 (DR18) PVC PIPE WITH CAST IRON OUTSIDE DIAMETER (CIOD), AND SHALL CONTAIN MARKINGS ON EACH SECTION SHOWING CONFORMANCE TO THE ABOVE SPECIFICATIONS. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO AWWA C880. THE BELLS OF THE PIPE AND OF EQUAL OR GREATER PRESSURE RATING. THE BELL OF PIPE AND FITTINGS USING PUSH-ON JOINTS SHALL HAVE AN INTEGRAL GROOVE TO RETAIN THE GASKET IN PLACE.
8. ALL FITTINGS SHALL BE MANUFACTURED OF DUCTILE IRON PIPE, CONFORMING TO ANSIIAWWA C110/A21.10 OR ANSIIAWWA C153/A21.53. ALL FULL BODY (C110/A21.10) FITTINGS SHALL BE PRESSURE RATED TO 250 PSI, MINIMUM. ALL COMPACT FITTINGS (C153/A21.53) SHALL BE PRESSURE RATED TO 350 PSI, MINIMUM.
9. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED AND COATED. INTERIOR LINING SHALL BE STANDARD THICKNESS CEMENT MORTAR LINING PER ANSIIAWWA C104/A21.4. EXTERIOR COATING FOR BURIED PIPE AND FITTINGS SHALL BE A PETROLEUM ASPHALTIC COATING IN ACCORDANCE WITH ANSIIAWWA C110/A21.10. EXTERIOR COATING OF EXPOSED PIPE AND FITTINGS SHALL BE FACTORY APPLIED RUST INHIBITING EPOXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH A TWO COAT SYSTEM. THE FIRST COAT (INTERMEDIATE COAT) SHALL BE 4-0-10-0 MIL DFT TNEMEC COLOR H-BUILD EPOXOLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2-0-3-0 MIL DFT TNEMEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE AS SELECTED BY THE LOCAL UTILITY.
10. MECHANICAL AND PUSH ON JOINTS FOR DUCTILE IRON PIPE AND FITTINGS SHALL BE RUBBER GASKETED, CONFORMING TO ANSIIAWWA C111/A21.11. LUBRICANTS OTHER THAN THAT FURNISHED BY THE PIPE MANUFACTURER WITH THE PIPE SHALL NOT BE USED.
11. RESTRAINED JOINTS FOR DUCTILE IRON PIPE BELL JOINTS SHALL BE AMERICAN FAST GRIP GASKET, MCWANE SURE GRIP 350 GASKET, U.S. PIPE FIELD LOK 350 GASKET, OR EBAA IRON MEGA LUG SERIES 1100HD. RESTRAINED JOINTS FOR DUCTILE IRON PIPE AND FITTING MECHANICAL JOINTS SHALL BE EBAA IRON MEGA LUG SERIES 1100, STAR GRIP SERIES 3000, OR TYLER UNION TUF-GRIP SERIES TLD. LOCKING BELL JOINT RESTRAINT SHALL BE AMERICAN FLEX RING JOINT, AMERICAN LOK-RING JOINT, OR U.S. PIPE TR-FLEX. RESTRAINED JOINTS FOR PVC PIPE MECHANICAL JOINTS SHALL BE TYLER UNION SERIES 2000 TUF GRIP TLP, JCM SUR-GRIP BELL RESTRAINER, FORD UNI-FLANGE SERIES 1500 CIRCLE LOCK, OR EBAA IRON MEGA LUG SERIES 2000PV. RESTRAINED JOINTS FOR PVC PIPE PUSH ON JOINTS SHALL BE EBAA IRON MEGA LUG SERIES 1500 OR SERIES 1600 (C900 PVC), SERIES 2800, FORD UNI-FLANGE SERIES 1390, OR SMITH-BLAIR BELL-LOK SERIES 165. PIPE JOINTS SHALL BE RESTRAINED UPSTREAM AND DOWNSTREAM OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS OR THE TABLE SHOWN IN THE DRAWINGS, WHICHEVER IS GREATER. VALVES ARE TO BE RESTRAINED ON EACH SIDE OF THE VALVE AT THE CONNECTION TO ADJOINING PIPE.
12. POLYETHYLENE PIPE AND TUBING USED FOR SERVICE LINES ½-3 INCH DIAMETER SHALL BE POLYETHYLENE IN ACCORDANCE WITH AWWA C901, STANDARD CODE DESIGNATION PE 4710, SDR 9 (OUTSIDE DIAMETER BASED DIMENSION RATIO). 250 PSI. PIPE SHALL BE COLOR CODED BLUE (POTABLE WATER) OR PURPLE (RECLAIMED WATER). PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. JOINTS IN SDR-PP PE PIPE SHALL BE BUTT HEAT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE SAME SDR OR LESS. PROVIDE ADAPTERS AS REQUIRED TO JOIN PE PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.
13. SERVICE SADDLES SHALL MEET THE REQUIREMENTS OF AWWA C800 AND SHALL CONSIST OF EPOXY COATED DUCTILE IRON BODIES IN ACCORDANCE WITH ASTM A536, WITH DOUBLE STAINLESS STEEL STRAPS, BOLTS, WASHERS AND NUTS. STAINLESS STEEL SHALL BE TYPE 304, AND NUTS ARE TO BE TEFLON COATED. THE DUCTILE IRON BODY IS TO BE SERVICE BONDED NYLON COATED, MINIMUM THICKNESS 12 MILS. THE LET OF SADDLE IS TO HAVE NPT THREADS. SERVICE SADDLES SHALL BE MANUFACTURED BY FORD, MUELLER, OR SMITH-BLAIR.
14. ALL SERVICES SHALL INCLUDE THE FOLLOWING: CURB STOPS, UNIONS AS REQUIRED, CORPORATION STOPS. CONFORMANCE WITH AWWA C800 AND C901 IS REQUIRED. THE CONTRACTOR SHALL CUT "W" IN THE TOP CURB OF EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. CUT "WS" AND "VS" SHALL BE HIGHLIGHTED WITH BLUE PAINT.
15. UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS AND RECLAIMED WATER METERS. THE CONTRACTOR SHALL CONSTRUCT WATER SERVICE AND RECLAIMED WATER SERVICE TO THE CORPORATION STOP.
16. UNLESS OTHERWISE INDICATED OR SPECIFIED, ALL VALVES TWO INCHES AND SMALLER SHALL BE ALL BRASS OR BRONZE; VALVES OVER TWO INCHES SHALL BE IRON BODY, FULLY BRONZE OR BRONZE MOUNTED.
17. VALVES 4 INCHES AND LARGER SHALL BE LINED AND COATED. BURIED AND EXPOSED VALVES SHALL BE COATED INSIDE AND OUT WITH A RUST INHIBITING EPOXY PRIMER, FOLLOWED BY AN EPOXY COATING MEETING THE REQUIREMENTS OF AWWA C550, APPLIED AT THE FACTORY. THE INTERIOR OF VALVES WITH A CAST IRON OR DUCTILE IRON BODY SHALL BE COATED WITH AN EPOXY PROTECTIVE COATING MEETING NSF INTERNATIONAL STANDARD 11, AND AWWA C550. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH A TWO COAT SYSTEM. THE FIRST COAT (INTERMEDIATE COAT) SHALL BE 4-0-10-0 MIL DFT TNEMEC COLOR H-BUILD EPOXOLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2-0-3-0 MIL DFT TNEMEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE AS SELECTED BY THE LOCAL UTILITY.
18. ALL VALVES 12" AND SMALLER SHALL BE GATE VALVES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. GATE VALVES 3 INCHES TO 12 INCHES SHALL CONFORM TO AWWA C509 OR AWWA C515. THE VALVES SHALL BE IRON BODY, CAST IRON FULLY ENCAPSULATED MOLDED RUBBER WEDGE COMPLYING WITH ASTM D2000, NON-RISING STEM WITH O-RING SEALS. VALVES SHALL OPEN COUNTERCLOCKWISE.
19. TAPPING SLEEVES ARE TO BE 18-8 TYPE 304 STAINLESS STEEL AND STAINLESS STEEL OUTLET, AS MANUFACTURED BY JCM OR APPROVED EQUAL. TAPPING VALVES SHALL BE RESILIENT SEATED GATE VALVES AND SHALL CONFORM TO THE REQUIREMENTS OF AWWA C509. TAPPING VALVES SHALL BE AMERICAN FLOW CONTROL SERIES 2500, CLOW SERIES F-6100, OR MUELLER SERIES A2361.
20. VALVES 14" AND LARGER SHALL BE BUTTERFLY VALVES. BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH, TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504, CLASS 150. VALVE BODY SHALL BE MECHANICAL JOINT END TYPE VALVE CONSTRUCTED OF CAST IRON OR DUCTILE IRON. DISC SHALL BE ONE PIECE CAST DESIGN WITH NO EXTERNAL RIBS TRANSVERSE TO FLOW. DISC SHALL BE CAST IRON OR DUCTILE IRON. THE RESILIENT SEAT SHALL MATE WITH A 304 OR 316 STAINLESS STEEL SURFACE.
21. VALVE SEATS SHALL BE MECHANICALLY RETAINED, AND MAY BE INSTALLED ON EITHER THE BODY OR DISC. O-RING SEATS ON VALVE DISCS ARE UNACCEPTABLE. SEATS FOR VALVES 14" DIAMETER AND LARGER SHALL BE FULLY FIELD REPLACEABLE WITHOUT THE USE OF SPECIAL TOOLS. OPERATORS OF THE ENCLOSED TRAVELING-NUT TYPE SHALL BE PROVIDED UNLESS OTHERWISE INDICATED.
22. ALL BURIED VALVES SHALL BE PROVIDED WITH ADJUSTABLE VALVE BOXES APPROXIMATELY 5 INCHES IN DIAMETER AND SHALL BE HEAVY DUTY TRAFFIC RATED. VALVE BOXES SHALL BE CAST IRON. VALVE BOX LIDS SHALL BE CAST IRON H-20 LOAD RATED. BOXES SHALL BE OF SUFFICIENT LENGTH TO OPERATE ALL VALVES BURIED IN THE GROUND, CONSISTING OF BASE, CENTER SECTION, AND TOP SECTION WITH COVER. ALL VALVE BOX EXTENSIONS SHALL BE CAST IRON. VALVE BOX LIDS IN PAVED AREAS SHALL BE LOCKABLE. VALVE BOXES LOCATED IN UNPAVED AREAS SHALL BE SUB TYPE DESIGN AND VALVE BOXES IN PAVED AREAS SHALL BE ADJUSTABLE SCREW TYPE. VALVE BOX COVERS SHALL BE CAST WITH THE INSCRIPTION "WATER" OR "RECLAIMED WATER". IN UNPAVED AREAS, INSTALL A 2-FT X 2-FT X 6-IN THICK CONCRETE PAD (2500 PSI) AT EACH VALVE. ALL VALVE BOX COVERS SHALL BE PAINTED WITH A THREE COAT SYSTEM. THE FIRST COAT SHALL BE PRIMER, 2.5-3.5 MIL DRY FILM THICKNESS (DFT) TNEMEC SERIES 135 CHEMBUILD OR APPROVED EQUAL. THE INTERMEDIATE COAT SHALL BE 4-0-10-0 MIL DFT TNEMEC COLOR H-BUILD EPOXOLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2-0-3-0 MIL DFT TNEMEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE BLUE (WATER) OR PURPLE (RECLAIMED WATER) OR AS APPROVED BY THE LOCAL UTILITY.
23. PVC PIPES SHALL BE COLOR CODED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) AND STENCILED (0.75-INCH LETTERING ON THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION) "POTABLE WATER MAIN" OR "RECLAIMED WATER MAIN" AS APPLICABLE.
24. INSTALL IDENTIFICATION TAPE ALONG ALL DUCTILE IRON PIPE AND PVC PIPE, MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. APPLY TAPE TO SURFACE OF PIPE, CONTINUOUSLY EXTENDING FROM JOINT TO JOINT. TAPE COLOR AND LETTERING SHALL BE BLACK PRINTING ON BLUE BACKGROUND (WATER MAINS), BLACK PRINTING ON PURPLE BACKGROUND (RECLAIMED WATER MAINS). PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.
25. INSTALL WARNING TAPE ALONG ALL PIPELINES, PLACED 2 FEET ABOVE PIPE. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE. TAPE SHALL BE COLORED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) WITH BLACK LETTERING, CODED AND WORDED "CAUTION: WATER MAIN BURIED BELOW," OR "CAUTION: RECLAIMED WATER MAIN BURIED BELOW," AS APPLICABLE.

26. INSTALL LOCATING WIRE ALONG ALL PVC PIPELINES. WIRE SHALL BE COLOR-CODED 10 GAUGE CONTINUOUS INSULATED WIRE. COLOR CODING SHALL BE SIMILAR TO WARNING TAPE COLORS. INSTALL LOCATOR WIRE ALONG ALL PRESSURIZED PIPE LINES 2" AND LARGER. LOOP WIRE INTO ALL VALVE BOXES. LOOPING TO OCCUR EVERY 500 FEET MINIMUM. WHERE THERE ARE NO VALVE BOXES TO ALLOW LOOPING, PROVIDE ACCESS BOXES PER LOCAL UTILITY REQUIREMENTS. CHECK WIRE FOR ELECTRICAL CONTINUITY.
27. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS OR APPROVED JOINT DEFLECTION. BENDING OF PIPE, EXCEPT COPPER AND POLYETHYLENE, IS PROHIBITED. JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
28. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.
29. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.
30. ALL SERVICE LINES SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.
31. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS: 1) CONDUCT PRESSURE AND LEAKAGE TESTING, 2) PERFORM FLUSHING PER UTILITY REQUIREMENTS AND AWWA C651, 3) DISINFECT THE WATER MAIN, INCLUDING VALVES AND FITTINGS; AND 4) DECHLORINATE AND FLUSH AFTER DISINFECTION.
32. APPLY HYDROSTATIC TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS), OR 150 PSI (RECLAIMED WATER MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. THE PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.
33. APPLY LEAKAGE TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS) OR 150 PSI (RECLAIMED WATER MAINS). MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 9% DURING THE ENTIRE LEAKAGE TEST. THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.
34. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES.
35. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA L = SDP/(4800) WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN PSIG ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.
36. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR, REGARDLESS OF THE TOTAL LINE LEAKAGE RATE.
37. PRIOR TO DISINFECTION, CONDUCT FULL DIAMETER FLUSHING OF PIPELINE IN SECTIONS IN ORDER TO REMOVE ANY SOLIDS OR CONTAMINATED MATERIAL THAT MAY HAVE BECOME LOGGED IN THE PIPE.
38. OBTAIN A MINIMUM FLUSHING VELOCITY OF 2.5 FEET PER SECOND PER AWWA C651.
39. ALL TAPS REQUIRED FOR FLUSHING AND THE TEMPORARY OR PERMANENT RELEASE OF AIR AS NEEDED FOR FLUSHING SHALL BE PROVIDED BY THE CONTRACTOR.
40. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651. THE DISCHARGE LOCATIONS FOR THE CHLORINATED WATER SHALL BE APPROVED BY THE OWNER. NEUTRALIZE THE CHLORINE RESIDUAL BY MEANS OF A REDUCING AGENT IN ACCORDANCE WITH AWWA C651.
41. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. ALL BACTERIOLOGICAL TESTING INCLUDING COLLECTION OF SAMPLES FOR TESTING SHALL BE PERFORMED BY A STATE CERTIFIED LABORATORY CONTRACTED BY THE CONTRACTOR. PROPER CHAIN OF CUSTODY PROCEDURES MUST BE FOLLOWED. COPIES OF ALL TESTING RESULTS AND ALL RELATED CORRESPONDENCE FROM THE TESTING LAB SHALL BE SUBMITTED TO THE OWNER, UTILITY, AND ENGINEER.

SANITARY SEWER SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE SEWER SYSTEM SHOWN ON THESE PLANS IS CHICK-FIL-A. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF ST.PETE BEACH UTILITIES DEPARTMENT.
2. PVC SEWER PIPE SHALL BE TYPE PSM PVC PIPE CONFORMING TO ASTM D3034 AND SHALL BE SDR 35 FOR 4" THROUGH 15", AND ASTM F 679, WALL THICKNESS T-1, FOR PIPE 18" THROUGH 27".
3. INSTALL ALL SEWER MAINS AT A MINIMUM 36 INCHES OF COVER.
4. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212 USING RUBBER GASKETS CONFORMING TO ASTM F447.
5. FITTINGS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE. PROVIDE ADAPTERS AS REQUIRED TO JOIN PVC PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS. SOLVENT CEMENT SHALL BE AS RECOMMENDED BY THE PIPE MANUFACTURER.
6. PVC SEWER PIPE SHALL BE COLOR CODED GREEN, STENCILED "SEWER LINE" (2" LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION).
7. INSTALL ADHESIVE IDENTIFICATION TAPE ALONG PIPELINE. TAPE SHALL BE MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. TAPE COLOR AND LETTERING SHALL BE BLACK PRINTING ON GREEN BACKGROUND. PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.
8. INSTALL WARNING TAPE ALONG ALL SEWER PIPELINES. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE, COLORED GREEN WITH BLACK LETTERING CODED AND WORDED "CAUTION: SEWER BURIED BELOW". INSTALL ALONG PIPELINE, 2 FEET ABOVE PIPE, MINIMUM OF 1 FOOT BELOW GRADE.
9. CONNECTIONS TO EXISTING SEWER SHALL BE CONDUCTED IN SUCH A MANNER THAT THE EXISTING SEWER REMAINS IN OPERATION. PROVIDE BY PASS PUMPING OF EXISTING FLOWS OR COLLECT AND LEGALLY DISPOSE OF EXISTING SEWER FLOW AS NEEDED TO ACCOMMODATE CONSTRUCTION WHILE KEEPING EXISTING SEWER IN SERVICE.
10. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND MANHOLES. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.
11. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.
12. ALL SERVICE LATERALS SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.
13. PROVIDE LIGHT SOURCE AND MIRRORS FOR LAMPING OF SEWER. ANY SEWER IN WHICH THE DIRECT LIGHT OF A LAMP CANNOT BE VIEWED IN EITHER DIRECTION, FULL CIRCLE, BETWEEN ADJACENT MANHOLES SHALL BE CONSIDERED UNSATISFACTORY. UNLESS THE LINE IS DESIGNED WITH HORIZONTAL DEFLECTIONS, AND SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.
14. CONDUCT LOW PRESSURE AIR TESTING (4.0 PSI INITIAL PRESSURE) OF INSTALLED SEWER PIPING IN ACCORDANCE WITH ASTM F1417. MAXIMUM ALLOWABLE LEAKAGE IS 0.0015 CUBIC FEET PER MINUTE PER SQUARE FOOT INTERNAL SURFACE AREA BEING TESTED. ALLOWABLE AIR PRESSURE DROP DURING THE TEST IS 0.5 PSIG. MINIMUM REQUIRED TEST TIME (DURATION) IS: A) 4" PIPE = 1 MIN 53 SEC; B) 6" PIPE = 2 MIN 50 SEC, OR 0.427 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; C) 8" PIPE = 3 MIN 47 SEC, OR 0.760 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; D) 10" PIPE = 4 MIN 43 SEC, OR 1.187 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; E) 12" PIPE = 5 MIN 40 SEC, OR 1.709 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER.
15. CONDUCT LEAKAGE TESTING OF MANHOLES BY PLUGGING INVERTS AND FILLING MANHOLE WITH WATER. ALLOWABLE WATER DROP IN MANHOLE TO BE FIELD DETERMINED BY UTILITY AND ENGINEER. MINIMUM TEST DURATION IS 1 HOUR.
16. CONDUCT DEFLECTION TESTING OF PIPELINE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. MAXIMUM ALLOWABLE PIPE DEFLECTION IS 5%. MEASURE DEFLECTION BY MANUALLY PULLING A MANDREL THROUGH THE PIPE. THE MINIMUM MANDREL OUTER DIAMETER SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 6" SEWER = 5.45" MANDREL, 8" SEWER = 7.28" MANDREL, 10" SEWER = 9.08" MANDREL, 12" SEWER = 10.79" MANDREL, 15" SEWER = 13.00" MANDREL, 18" SEWER = 16.13" MANDREL, 21" SEWER = 19.00" MANDREL, 24" SEWER = 21.36" MANDREL, 27" SEWER = 24.06" MANDREL.
17. DEFLECTION TESTING IS CONSIDERED SATISFACTORY IF THE MANDREL CAN BE PULLED BY HAND THROUGH THE PIPE BEING TESTED. IF THE MANDREL CANNOT BE PULLED THROUGH THE PIPE, REPLACE OR CORRECT THE PIPE AND RETEST UNTIL TESTING IS SATISFACTORY. ANY PIPE THAT IS REMOVED OR CORRECTED DUE TO FAILING DEFLECTION TESTING SHALL ALSO BE RE-TESTED FOR LEAKAGE.

PRECAST STRUCTURES AND ACCESSORIES

1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITHIN PRECAST STRUCTURES ARE NOT ALLOWED.
2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. BASE SECTIONS SHALL HAVE INTEGRAL INVERTS WITH GASKETS TO MATCH THE PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL INVERT ANGLES. PROVIDE OUTLET STUBS WITH JOINTS TO MATCH THE PIPE.
3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478, MANUFACTURED USING SULFATE RESISTANT CEMENT (ASTM C150, TYPE II). RISERS SHALL BE 48-INCH DIAMETER UNLESS OTHERWISE INDICATED AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5 INCHES.
4. GASKETS FOR SEATING PRECAST SECTIONS SHALL BE COLD ADHESIVE PREFORMED PLASTIC GASKETS CONFORMING TO ASTM C990, UNLESS OTHERWISE INDICATED.
5. UNLESS OTHERWISE INDICATED, CONE TOP SECTIONS SHALL BE PRECAST, ECCENTRIC TYPE WITH 24-INCH DIAMETER TOP OPENING CONFORMING TO ASTM C478. PROVIDE 8-INCH MINIMUM THICKNESS FLAT SLAB TOPS WITH ECCENTRIC 24 INCH DIAMETER OPENING, UNLESS OTHERWISE INDICATED.
6. PROVIDE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE. CONNECTION OF CONCRETE PIPE TO THE MANHOLE SHALL BE MADE WITH NON-SHRINK METALLIC GROUT. CONNECTION OF DUCTILE IRON OR PVC PIPE TO THE MANHOLE SHALL PROVIDE A WATER TIGHT CONNECTION PER ASTM C923. WHERE CONNECTORS ARE USED, THEY SHALL BE INSTALLED IN THE MANHOLE WALL BY ACTIVATING THE EXPANDING MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATION OF THE CONNECTOR MANUFACTURER. THE USE OF ADHESIVES OR LUBRICANTS FOR INSTALLATION OF RUBBER CONNECTORS IS PROHIBITED.
7. FRAMES AND COVERS SHALL BE GREY IRON PER ASTM A48, CLASS 30B AND SHALL BE U.S. FOUNDRY TYPE 227AS, TRAFFIC BEARING (ASHTO H-20 LOADING), UNLESS OTHERWISE NOTED IN THE DRAWINGS. CASTINGS SHALL BE SMOOTH, CLEAN, FREE FROM BLISTERS, BLOWHOLES, AND SHRINKAGE. RAISED LETTERING ON COVERS SHALL BE "STORM", "SEWER", OR AS DETAILED ON THE DRAWINGS.
8. PROVIDE INLETS, FRAMES, AND GRATES IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. ALL FRAMES AND INLET GRATES SHALL BE PRODUCTS OF U.S. FOUNDRY & MANUFACTURING CORPORATION, OR EQUAL.
9. ALL INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT TO THE TOP OF THE STRUCTURE.
10. MANHOLE COATINGS AND FINISHES SHALL BE:
 - A. SANITARY SEWER MANHOLE INTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.
 - B. INTERIOR OF MANHOLES WHICH RECEIVE FLOW MAIN DISCHARGE - INTEGRALLY ATTACHED INTERIOR LINER, FULL HEIGHT, FIBERGLASS LINER. LINER THICKNESS TO BE IN ACCORDANCE WITH THE DRAWINGS.
 - C. EXTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.
11. AS-BUILT INFORMATION SHALL INCLUDE ALL RIM, TOP AND INVERT ELEVATIONS FOR ALL PRECAST STRUCTURES.

STORM SEWER SYSTEMS

1. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ROUND CONCRETE PIPE SHALL COMPLY WITH ASTM C76 AND SHALL BE CLASS II PIPE, ELLIPTICAL CONCRETE PIPE SHALL COMPLY WITH ASTM C407. PIPE JOINTS SHALL COMPLY WITH ASTM C445 AND FDOT SPECIFICATION SECTION 430, AND RUBBER GASKETS SHALL COMPLY WITH FDOT SPECIFICATION SECTION 942. MINIMUM COVER OVER THE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL BE 30 INCHES.
2. RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.
3. CORRUGATED POLYETHYLENE PIPE AND FITTINGS 4 INCH THROUGH 10 INCH DIAMETER SHALL COMPLY WITH AASHTO M252, TYPE S. PIPE 12 INCH THROUGH 48 INCH DIAMETER SHALL COMPLY WITH AASHTO M294, TYPE S, AND ASTM F2306. PIPE 54 INCH THROUGH 60 INCH DIAMETER SHALL COMPLY WITH FDOT SPECIFICATION SECTION 946 (CLASS II PIPE) AND SHALL COMPLY WITH AASHTO M294. VIRGIN MATERIAL FOR THE PRODUCTION OF PIPE AND FITTINGS SHALL BE HIGH DENSITY POLYETHYLENE CONFORMING TO THE MINIMUM REQUIREMENTS OF CELL CLASSIFICATION 424420C FOR 4-INCH THROUGH 10-INCH DIAMETERS AND 435400C FOR 12-INCH THROUGH 60-INCH DIAMETERS PER ASTM D3336. THE 12-INCH THROUGH 60-INCH VIRGIN PIPE MATERIAL SHALL COMPLY WITH THE NOTCHED CONSTANT LIGAMENT STRESS (CLS) TEST AS SPECIFIED IN ASTM F2306. BELL JOINTS FOR 4 INCH THROUGH 10 INCH DIAMETER PIPE SHALL BE PUSH-ON SLEEVE. BELL JOINTS FOR 12 INCH THROUGH 60 INCH DIAMETER PIPE SHALL BE INTEGRALLY FORMED ON PIPE. PIPE JOINTS SHALL BE WATER TIGHT PER ASTM D3212. GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND SHALL COMPLY WITH ASTM F447.
4. UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE D-3 IN ACCORDANCE WITH FDOT INDEX NO. 199.
5. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 199, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH FDOT INDEX NO. 280. PROVIDE MINIMUM 12" OVERLAP.
6. INSTALL POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2321. BACKFILL AND COMPACT EVENLY ON EACH SIDE TO PREVENT DISPLACEMENT. MINIMUM COVER OVER POLYETHYLENE PIPE SHALL BE AS FOLLOWS: A) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS SUITABLE SOILS AS DEFINED IN THE GENERAL NOTES; MINIMUM COVER SHALL BE 36 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER; B) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS MANUFACTURED AGGREGATES CLASS 1A OR 1B AS DEFINED IN ASTM D2321; MINIMUM COVER SHALL BE 30 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER.
7. INSTALL UNDERDRAINS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 440. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS.
8. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND STRUCTURES.
9. FOR PIPE 48 INCHES OR LESS IN DIAMETER, CONDUCT A VIDEO INSPECTION IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430. PROVIDE A VIDEO DVD AND REPORT USING LOW BARREL DISTORTION VIDEO EQUIPMENT WITH LAMINOLOGY, NON-CONTACT VIDEO MICROMETER AND ASSOCIATED SOFTWARE THAT PROVIDES THE FOLLOWING: ACTUAL RECORDED LENGTH AND WIDTH MEASUREMENTS OF ALL CRACKS WITHIN THE PIPE; ACTUAL RECORDED SEPARATION MEASUREMENT OF ALL PIPE JOINTS; PIPE OVALITY REPORT; DEFLECTION MEASUREMENTS AND GRAPHICAL DIAMETER ANALYSIS REPORT IN TERMS OF X AND Y AXIS; FLAT ANALYSIS REPORT IN TERMS OF DIETER OF PIPE; PIPE DEFORMATION MEASUREMENTS; LEAKS, DEBRIS, OR OTHER DAMAGE OR DEFECTS; DEVIATION IN PIPE LINE AND GRADE, JOINT GAPS, AND JOINT MISALIGNMENT; A VIDEO RECORD OF THE ACTUAL SPEED AT WHICH THE CAMERA IS TRAVELING; THROUGH THE PIPE, ENSURING THAT THE RATE OF TRAVEL DOES NOT EXCEED THE LIMIT DEFINED IN FDOT SPECIFICATION SECTION 430.

PAVING, SIDEWALKS, AND CURBING

1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. MATERIAL STABILITY AND DENSITY REQUIREMENTS ARE AS FOLLOWS:
 - A. TYPE SP STRUCTURAL COURSE (SP-12.5)
 - B. LIMEROCK BASE: MINIMUM LBR OF 100, PLACED IN 6" MAXIMUM LIFTS, COMPACTED TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (ASHTO T-100). CONTRACTOR MAY SUBSTITUTE ASPHALT BASE COURSE TYPE 1 (MIN. STABILITY OF 1000 LBS) AT NO ADDITIONAL COST, PROVIDED STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED LIMEROCK BASE.
 - C. SUBGRADE: STABILIZE TO A MIN. LBR OF 40, COMPACT TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (ASHTO T-100). CONTRACTOR MAY SUBSTITUTE LIMEROCK SUBGRADE (MIN. LBR OF 100) OR CONTROLLED LOW STRENGTH MATERIAL ("FLOWABLE FILL"), Fc (28 DAY) = 100-125 PSI AT NO ADDITIONAL COST, PROVIDED THE STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED SUBGRADE.
3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE SIDEWALK SHALL BE CONSTRUCTED OF 4" OF CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. JOINTS SHALL BE EITHER TOoled OR SAW CUT AT A DISTANCE OF 10'. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.
4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE FDOT CLASS "1" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.
5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE, WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY. PROVIDE MIN. OF ONE TEST FOR EACH PAVING CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

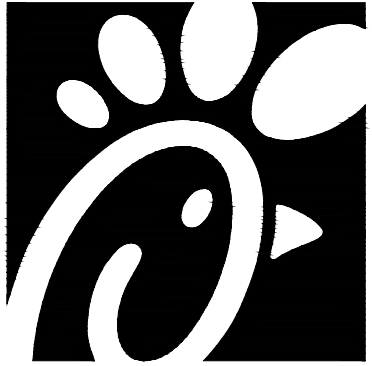
PAVING TIMING REQUIREMENTS

1. INSTALL SUBGRADE AND BASE COURSE MATERIALS WITHIN 48 HOURS OF THE REMOVAL/OPEN CUTTING OF EXISTING PAVEMENT CONSISTING OF STREETS, DRIVEWAYS, OR SIDEWALK. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.
2. AREAS TO RECEIVE ASPHALT SHALL RECEIVE EROSION CONTROL MEASURES NO LATER THAN 48 HOURS AFTER ACCEPTANCE OF BASE COURSE. TEMPORARY EROSION CONTROL CONSISTS OF PLACEMENT OF A BITUMINOUS PRIME COAT AND SANDING THE SURFACE. PERMANENT EROSION CONTROL CONSISTS OF PLACEMENT OF THE STRUCTURAL COURSE.
3. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FDOT COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF ACCEPTANCE OF THE SUBGRADE.

SIGNS AND PAVEMENT MARKINGS

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED EDITION OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS. STANDARD INDEX NO. 11200, 11860, 11862, 11863, 11864, 11865, 17302, 17344, 17346, 17349, AND 17355 APPLY. GENERALLY, ALL MARKINGS SHALL CONFORM TO THE FOLLOWING: 6" EDGE LINES, 6" LANE LINES, 6" SINGLE CENTERLINES, AND 6" DOUBLE LINE PATTERNS, UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 - 4" x 4"). RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX NO. 17352.
3. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 971, NON-REFLECTIVE WHITE TRAFFIC PAINT.
4. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING IN THREE-INCH LETTERS.
5. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.
6. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
7. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.

8. PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.



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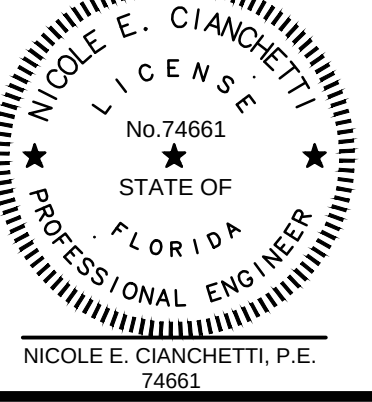
State of Florida Licenses:

Engineer No. 32115

Surveyor No. LB7143

Architect. No. AA26000926

Landscape No. LC000298



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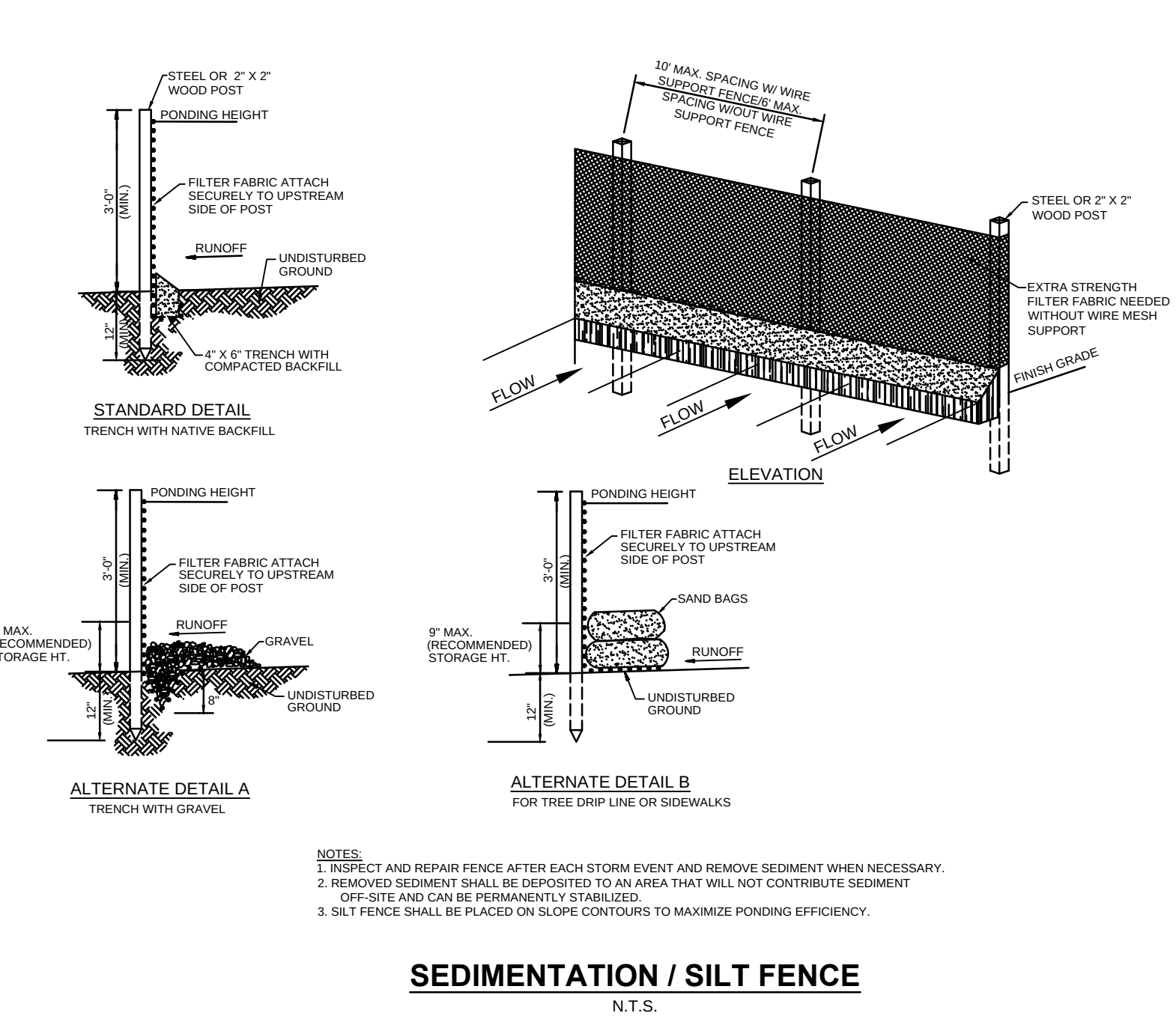
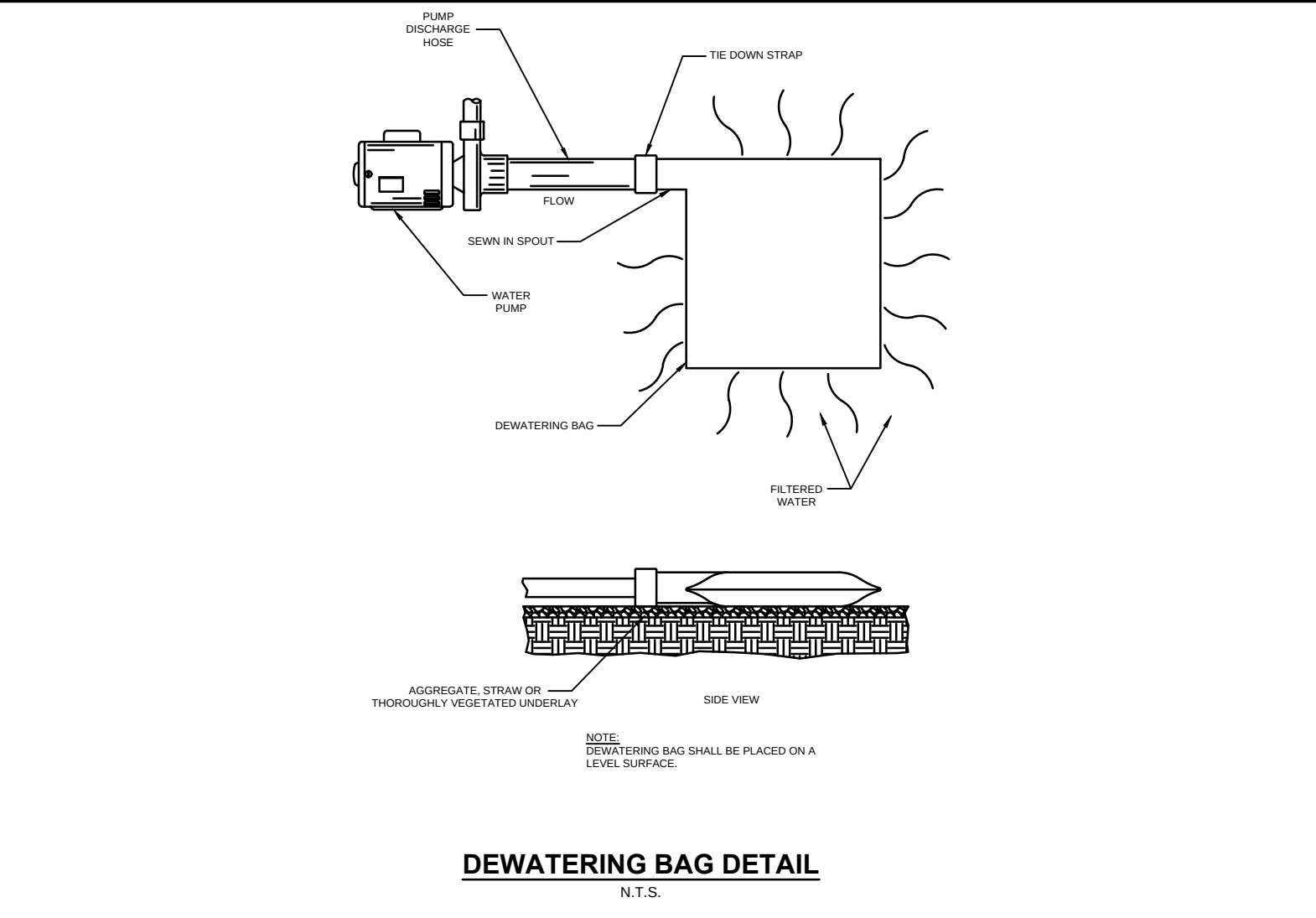
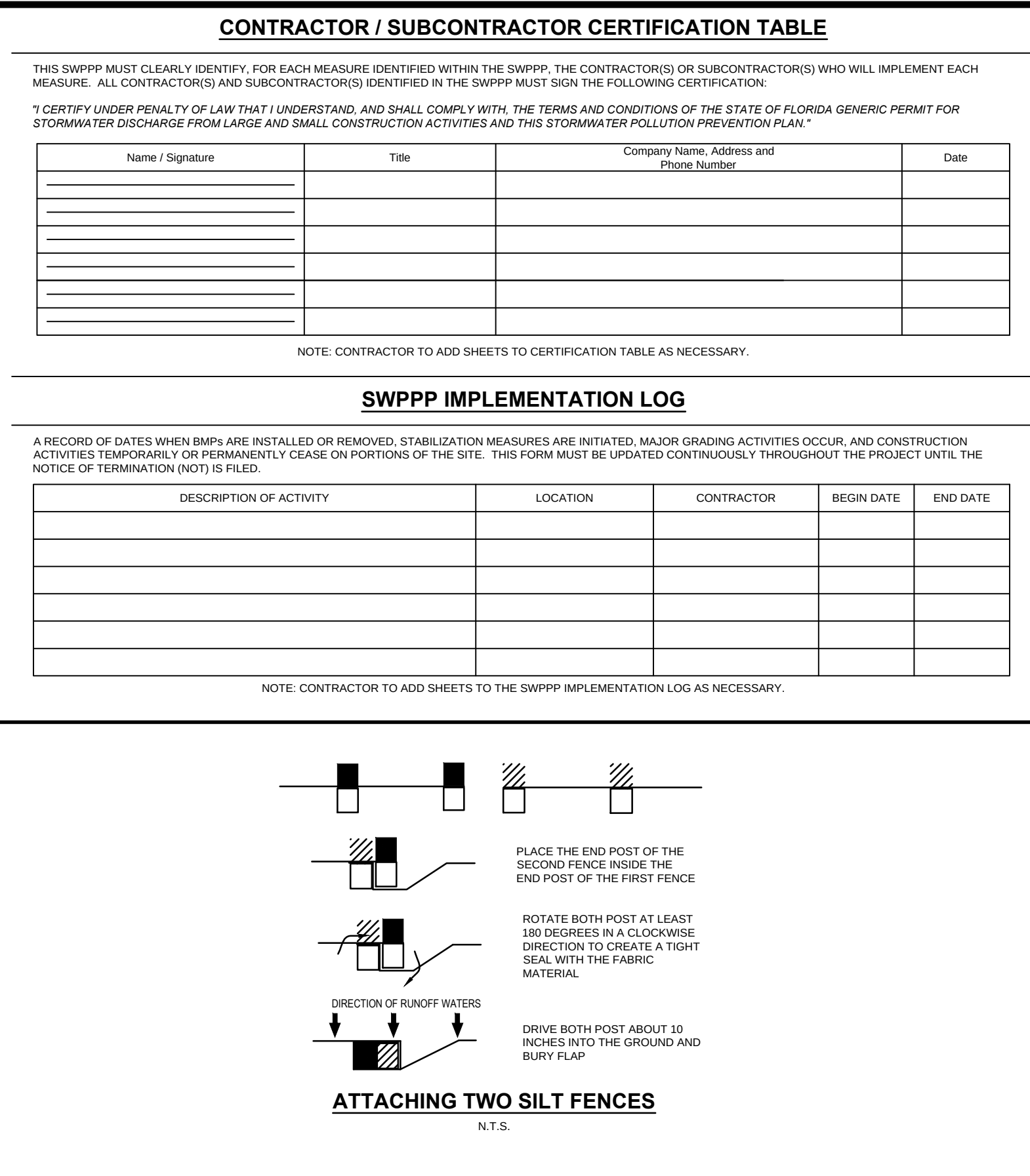
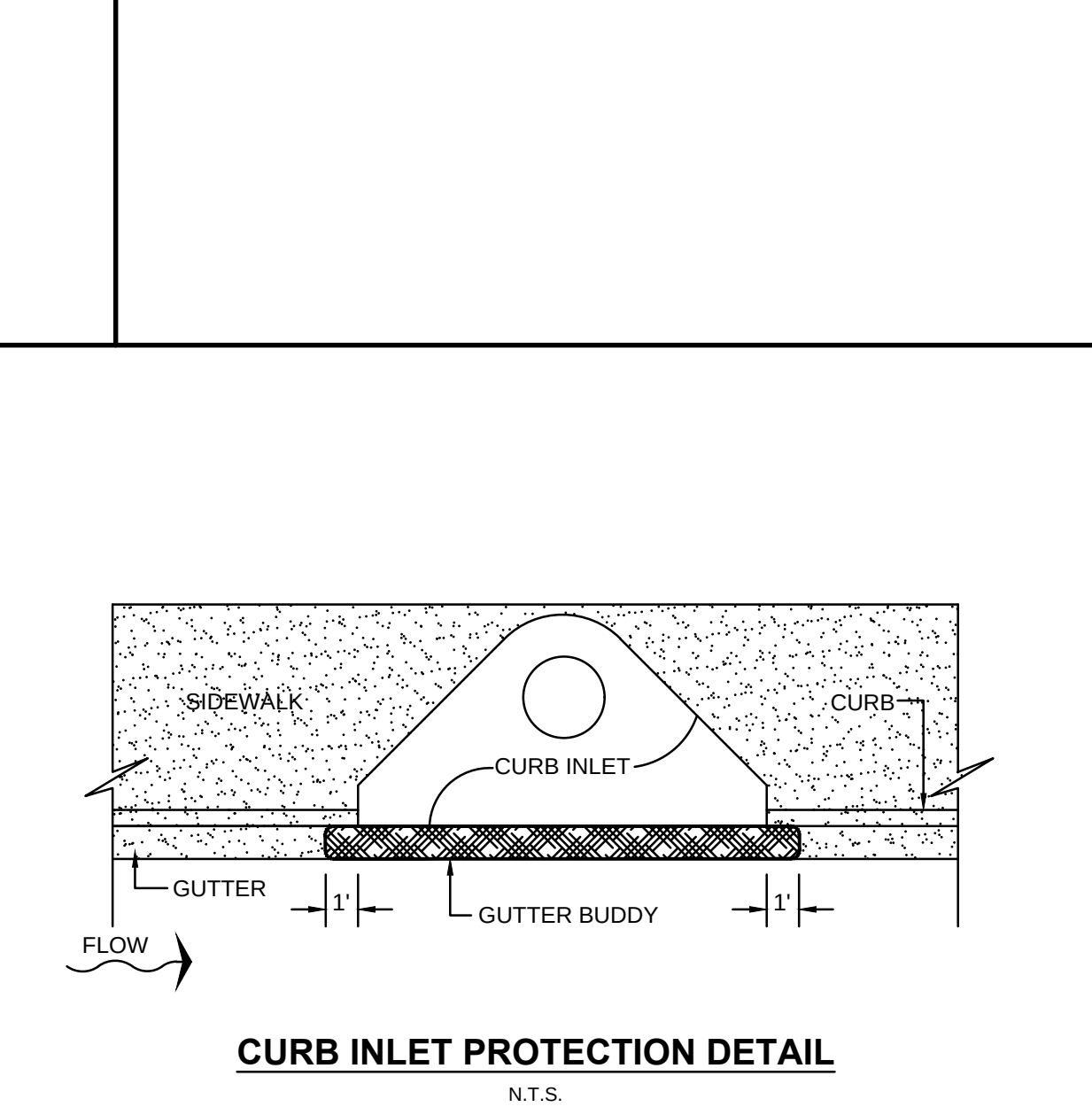
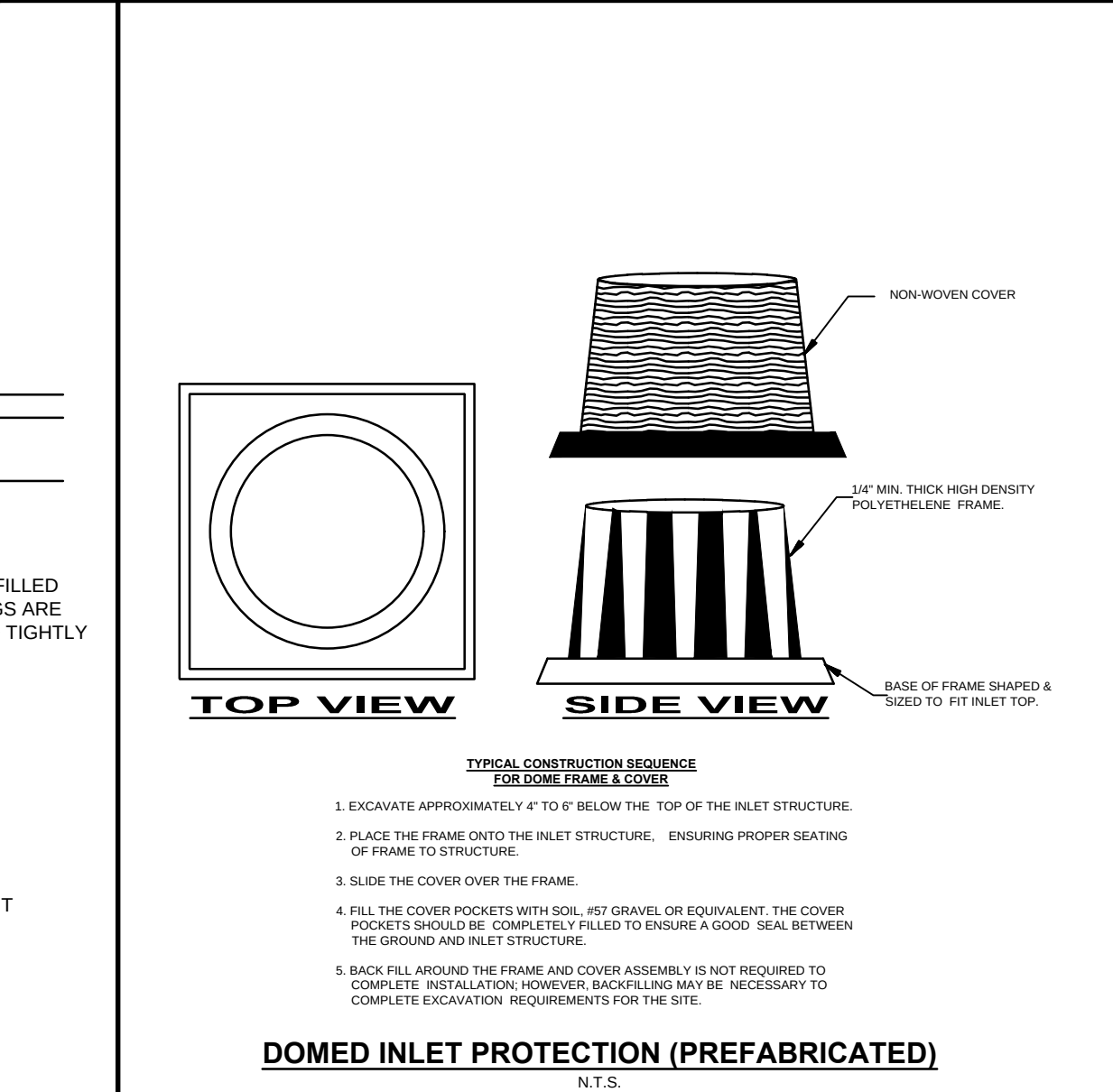
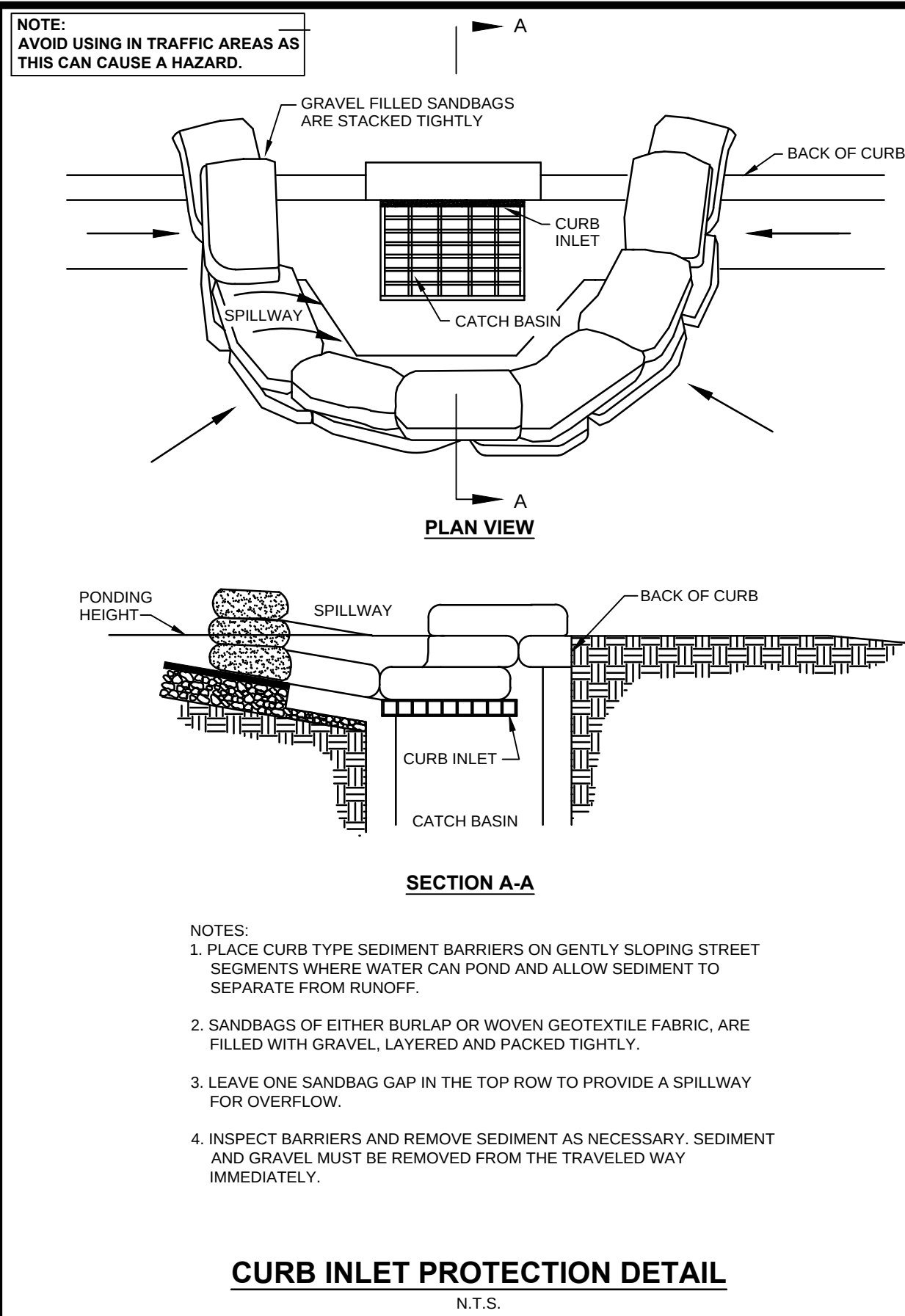
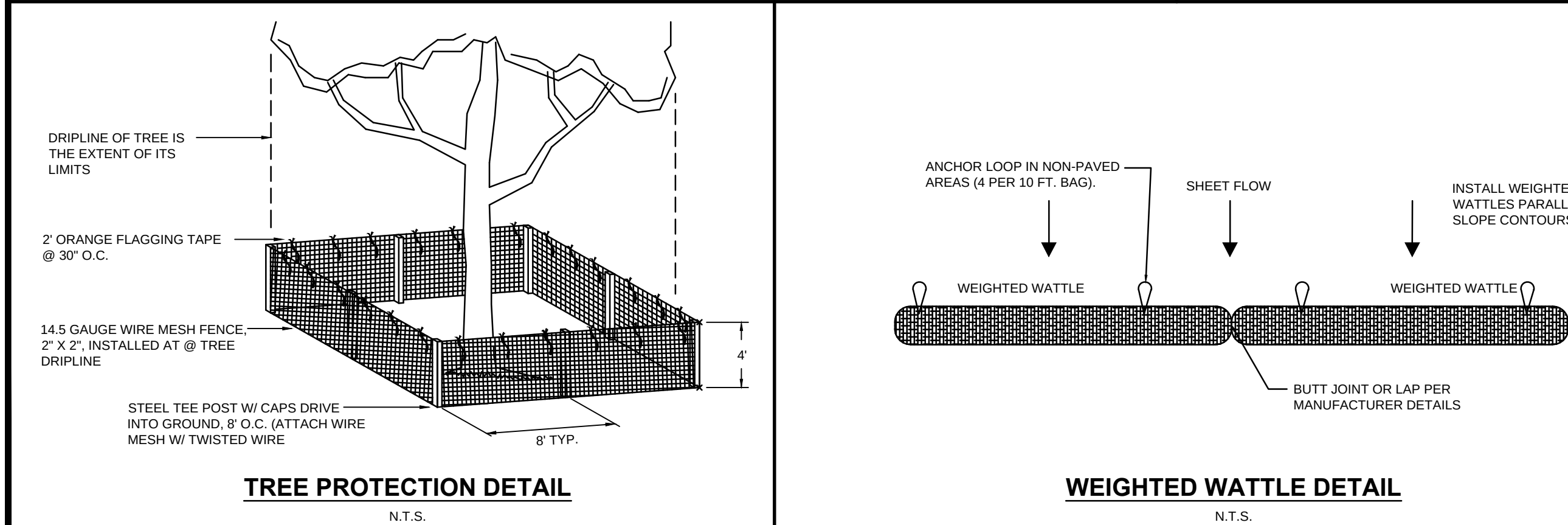
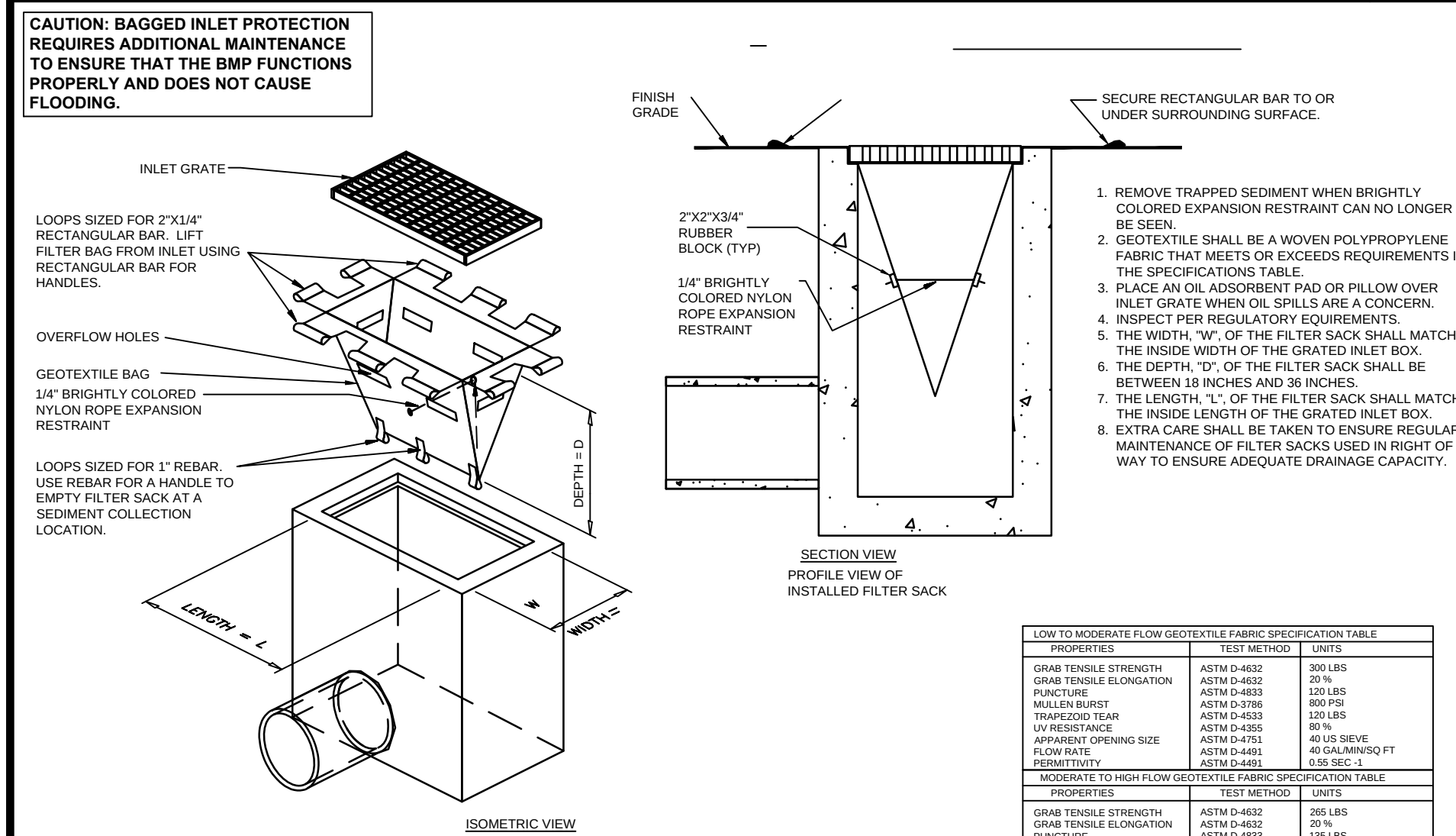
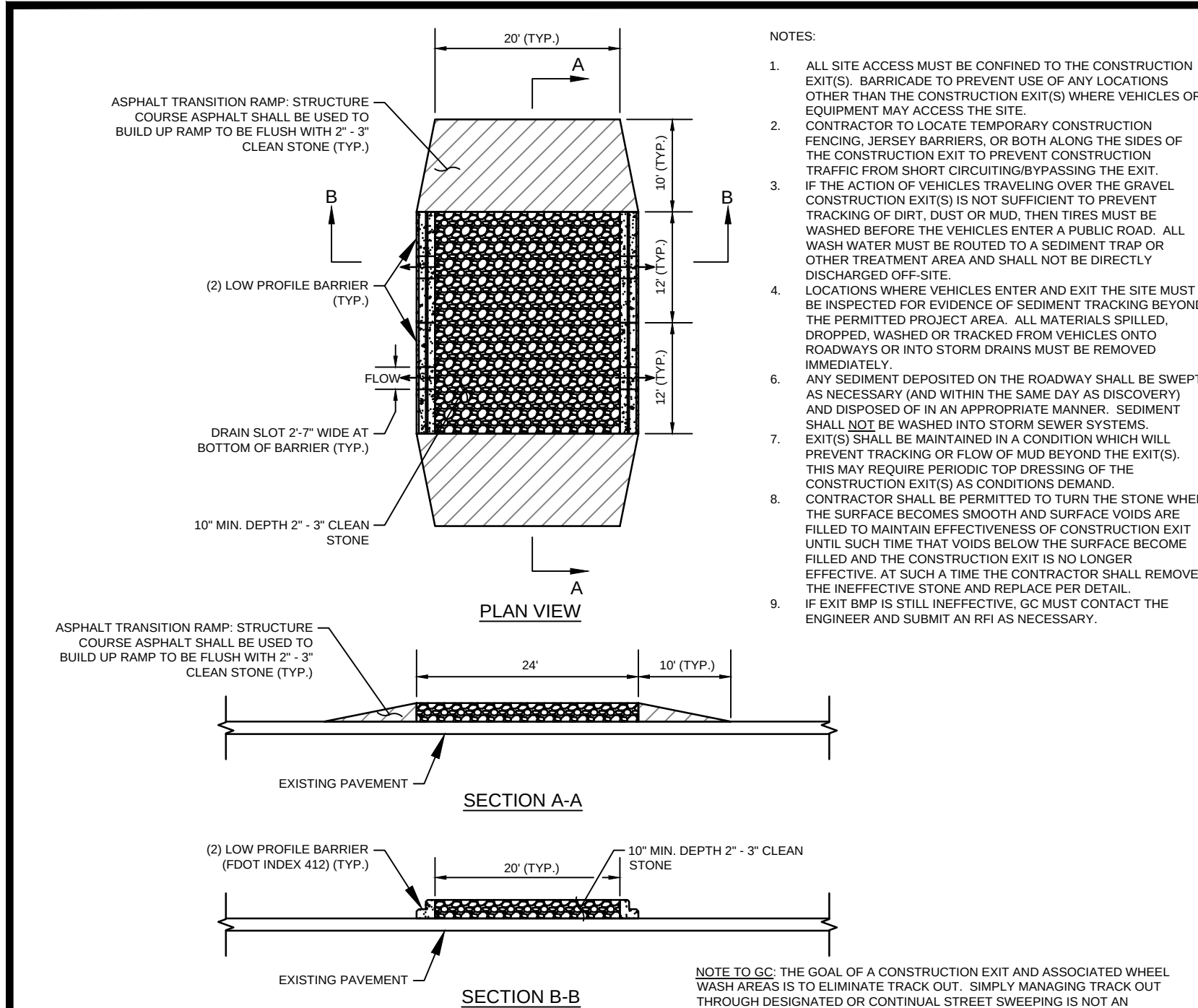
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Engineer No. 3215
Surveyor No. LB7143
Architect. No. AA26000926
Landscape No. LC000298

PROFESSIONAL ENGINEER
NICOLE E. CIANCHETTI, P.E.
74661

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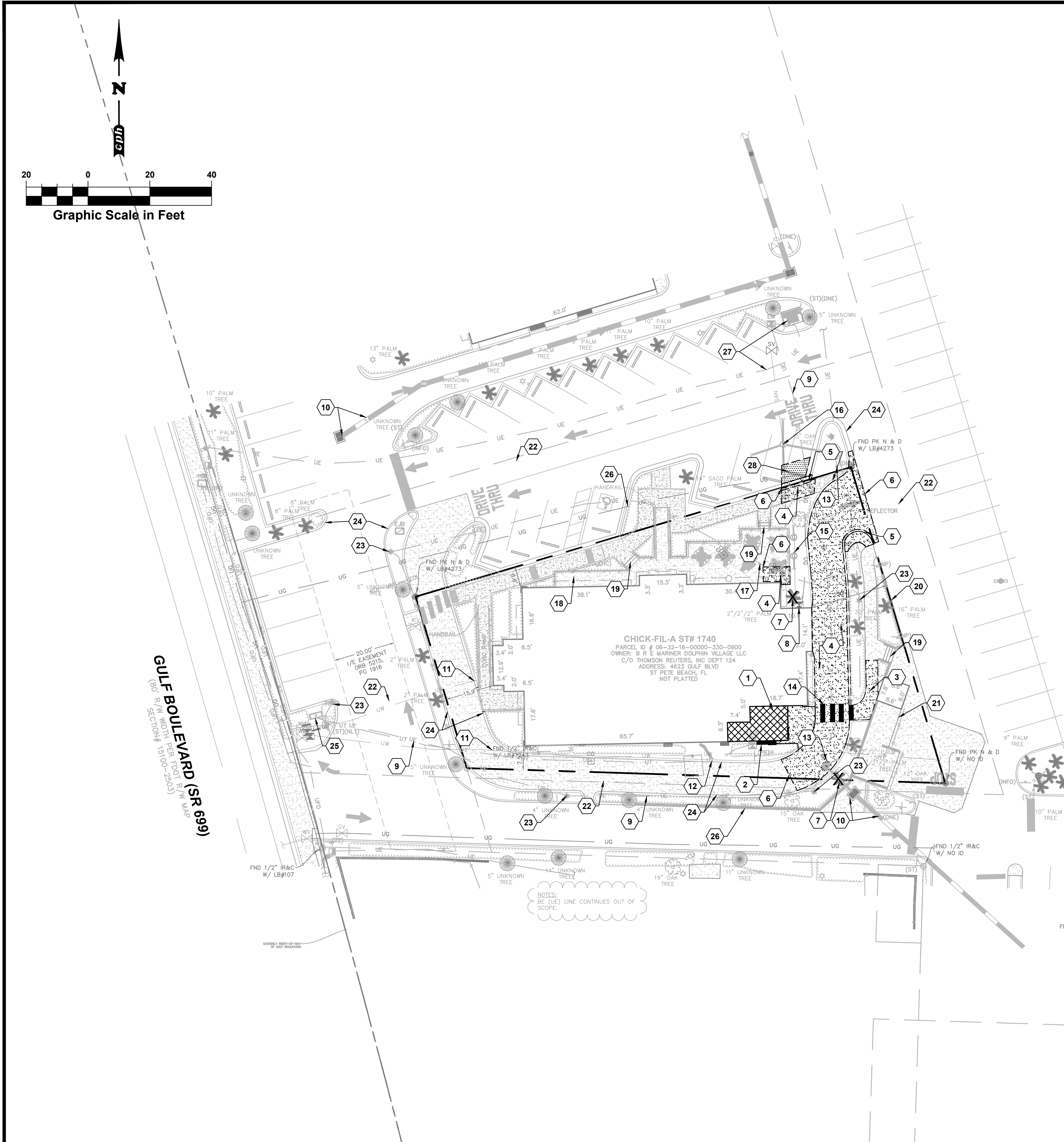
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STORMWATER POLLUTION PREVENTION DETAILS

SHEET NUMBER

C-1.3



DEMOLITION KEYNOTES LEGEND

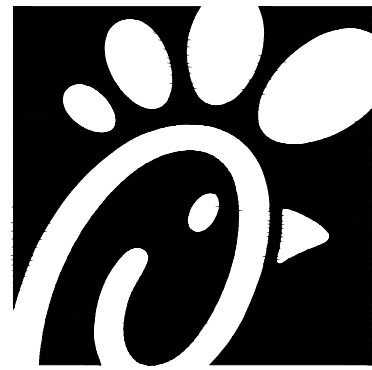
- 1 REMOVE EXISTING BUILDING TO LIMITS SHOWN REFER TO ARCH PLANS.
- 2 EXISTING ELECTRIC METER & MDP TO BE REMOVED. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULING WITH ELECTRIC COMPANY. REFER TO SHEET PS-1.0
- 3 EXISTING CONCRETE SIDEWALK TO BE REMOVED.
- 4 EXISTING CONCRETE PAVEMENT TO BE REMOVED.
- 5 EXISTING CONCRETE CURB TO BE REMOVED (TYP.).
- 6 NEATLY SAWCUT EXISTING CURB CONCRETE OR ASPHALT AS SHOWN. COORDINATE REMOVAL WITH SHEET C-2.0.
- 7 EXISTING TREE/SHRUB TO BE REMOVED. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION (TYP.).
- 8 EXISTING GAS METER SHALL BE REMOVED. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULING WITH GAS COMPANY. REFER TO SHEET PS-1.0
- 9 PROTECT & SAVE EXISTING ELECTRICAL SERVICE.
- 10 PROTECT & SAVE EXISTING STORM SEWER SYSTEM.
- 11 PROTECT & SAVE EXISTING WATER SERVICE.
- 12 PROTECT & SAVE EXISTING TELEPHONE SERVICE.
- 13 EXISTING STORM INLET TO BE REMOVED. REFER TO SHEET C-3.0.
- 14 EXISTING STRIPING TO BE REMOVED.
- 15 PROTECT & SAVE EXISTING GREASE INTERCEPTOR REFER TO SHEET PS-1.0.
- 16 PROTECT & SAVE EXISTING SEWER SYSTEM .REFER TO SHEET PS-1.0.
- 17 PROTECT & SAVE EXISTING PATIO AREA CONCRETE.
- 18 PROTECT & SAVE EXISTING CONCRETE SIDEWALK.
- 19 PROTECT & SAVE EXISTING CONCRETE SIDEWALK & STEPS.
- 20 PROTECT & SAVE EXISTING WALL.
- 21 PROTECT & SAVE EXISTING DUMPSTER ENCLOSURE.
- 22 PROTECT & SAVE EXISTING PAVEMENT.
- 23 PROTECT & SAVE EXISTING LIGHT POLE.
- 24 PROTECT & SAVE EXISTING CURB.
- 25 PROTECT & SAVE EXISTING PYLON SIGN.
- 26 PROTECT & SAVE EXISTING GAS SERVICE LINE.
- 27 PROTECT & SAVE EXISTING TRANSFORMER & PRIMARY SERVICE.
- 28 EXISTING WHEEL STOP TO BE RELOCATED

DEMOLITION LEGEND

- ASPHALT TO BE SAW CUT AND REMOVED
- CONCRETE TO BE SAW-CUT AND REMOVED
- BUILDING TO BE DEMOLISHED AND REMOVED
- APPROXIMATE LIMITS OF SAW-CUT
- TREE TO BE REMOVED (REFER TO TR-1)

DEMOLITION NOTES

1. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON SITE LOCATIONS OF EXISTING UTILITIES.
2. CHAPTER 553.85.1 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
4. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE STRUCTURES TO BE DEMOLISHED. A BRIEF DESCRIPTION OF THE STRUCTURES IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.
5. THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF DEMOLITION WHERE DEMOLITION IS REQUIRED.
 - A. DEMOLITION AND REMOVAL OF EXISTING BRICK BUILDING.
 - B. DEMOLITION AND REMOVAL OF EXISTING ON SITE ASPHALT, CONCRETE PAVING AND CURBING TO LIMITS SHOWN.
 - C. REMOVAL OF EXISTING ONSITE ABOVE-GROUND AND UNDERGROUND UTILITIES, INCLUDING REMOVAL AND/OR PLUGGING OF EXISTING UTILITIES AS SHOWN ON PLANS.
6. PRIOR TO REMOVAL OF ANY UNDERGROUND SEWAGE TANK AND COMPONENTS FROM SERVICE, CONTRACTOR MUST COMPLETELY DRAIN THE SYSTEMS TO AN APPROVED SANITATION TANK FOR DISPOSAL AT AN APPROVED LOCATION AND IN ACCORDANCE WITH LOCAL & STATE REQUIREMENTS.
7. ALL ON SITE UNDERGROUND STRUCTURES AND PIPING MUST BE COMPLETELY REMOVED AND OVEREXCAVATED BY A MINIMUM OF 12" BENEATH THE STRUCTURES. CONTRACTOR SHALL USE APPROVED FILLING MATERIAL FOR FILLING THESE AREAS. FILL SHALL BE OF CLEAN, FINE SAND AASHTO CLASS A-3 AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN THICKNESS AND COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
8. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS, AND OTHER EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR. REMOVE NO STRUCTURE SUBSTANTIALLY AS A WHOLE. DEMOLISH COMPLETE ON THE PREMISES.
9. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
10. ELECTRICAL, TELEPHONE, CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS A NECESSITY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
11. PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE BLOCKED BY DEBRIS AND EQUIPMENT.
12. AIR HAMMERS OR OTHER DEVICES WILL BE PERMITTED ON EXTERIOR WORK.
13. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING THE DEMOLITION/EXCAVATION PROCESS.
14. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING DISPOSAL OF WASTES AND DEBRIS.
15. PAVEMENT REMOVAL:
 - A. WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING ON THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
 - B. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS REMOVED FOR THE PURPOSE OF CONSTRUCTING OR REMOVING BOX CULVERTS, PIPE, INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., SHALL BE REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND OTHER EQUIPMENT AS REQUIRED.
16. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
17. PERMITTING: IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION FROM RESPONSIBLE REGULATORY AGENCIES AND FULLY ACKNOWLEDGE AND COMPLY WITH ALL REQUIREMENTS PRIOR TO COMMENCING DEMOLITION WORK.
18. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS. ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL.
19. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
20. THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF ANY WORK. ACTUAL REMOVAL AND/OR RELOCATION OF ALL EXISTING PLANTS IS TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE SITEWORK CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH THE LANDSCAPE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND PRESERVING TREES AS INDICATED BY THE OWNER.
21. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITY TO THAT AREA DELINEATED IN THE DRAWING. ALL OTHER EXIST. UTILITIES INCLUDING : STORM DRAINAGE, GAS, ELECTRIC, TELEPHONE, WATER & SEWER SHALL BE PRESERVED & PROTECTED.
22. A SEPARATE DEMOLITION PERMIT IS REQUIRED FOR THE DEMOLITION OF THE ACTUAL BUILDING.
23. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THIS SHEET BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, SIDEWALK, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.



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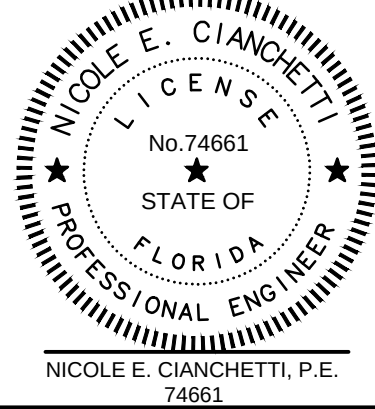
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT # C29146

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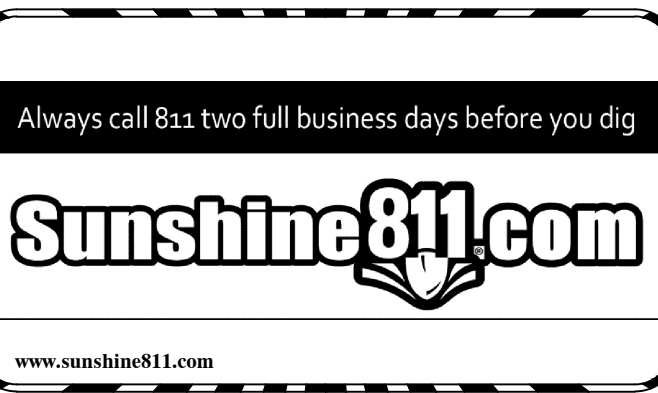
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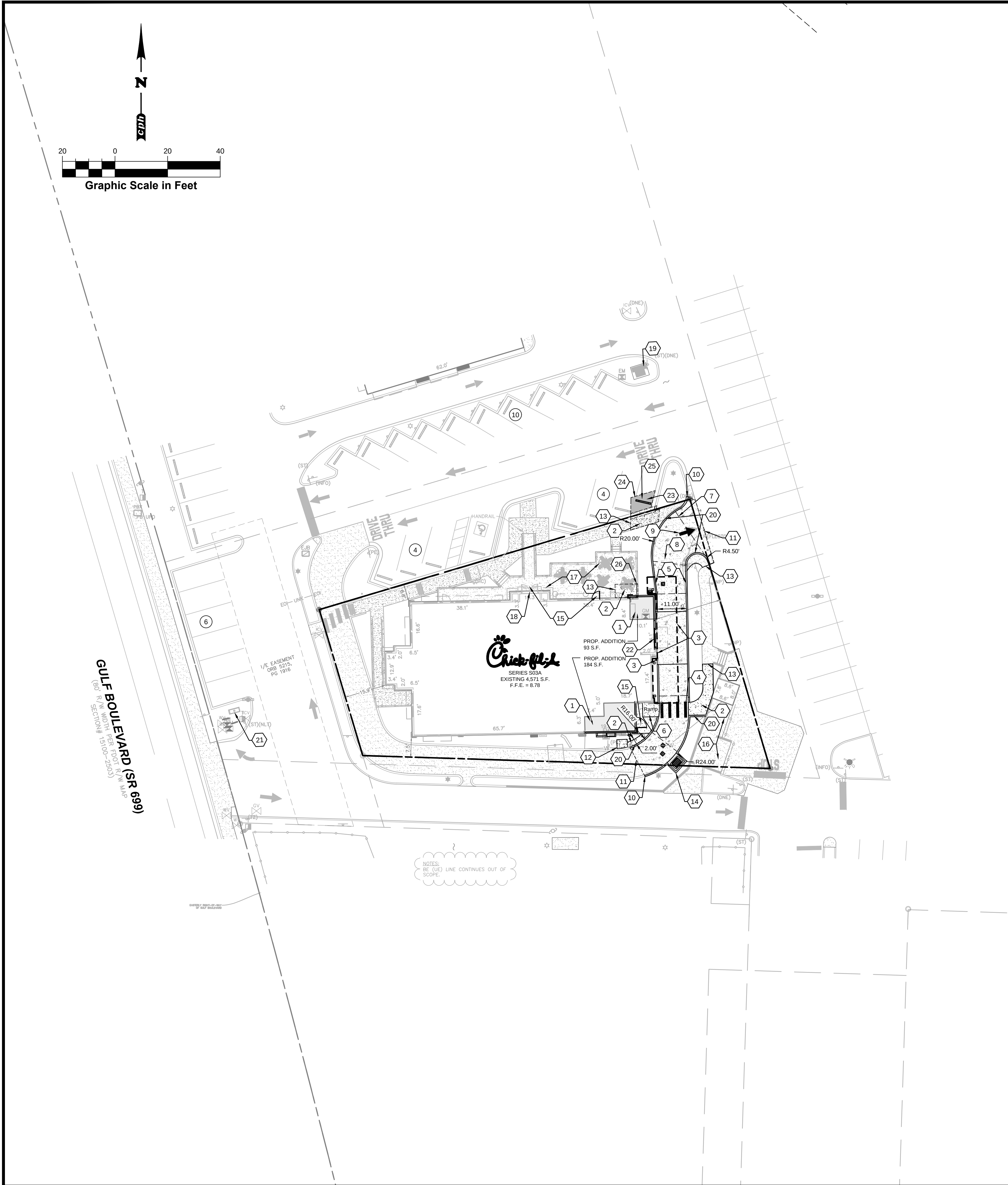
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SHEET
DEMOLITION PLAN

SHEET NUMBER

C-1.5





DESIGN NOTES & KEY PLAN

- PROPOSED BUILDING ADDITION. REFER TO ARCH. PLANS FOR SPECIFICATIONS.
- PROPOSED TYPICAL CONCRETE SIDEWALK
- PROPOSED CONCRETE BOLLARD
- PROPOSED CROSSWALK MARKINGS
- PROPOSED CONCRETE INTEGRAL CURB TO MATCH EXISTING CONDITIONS
- PROPOSED CURB RAMP.
- PROPOSED CONTRACTION JOINT
- PROPOSED CONCRETE PAVEMENT DRIVE-THRU LANE.
- PROPOSED DIRECTIONAL ARROW (TYP.)
- PROPOSED SAWCUT LIMITS. CONTRACTOR SHALL NEATLY SAWCUT, REMOVE AND MATCH EXISTING PAVEMENT & CURBING WITH SMOOTH TRANSITION.
- PROPOSED TRANSVERSE AND LONGITUDINAL CONTRACTION JOINT IN ACCORDANCE WITH GEO REPORT SPECIFICATIONS.
- PROPOSED CASH MACHINE PAD (4" THICK, 3' X 4' CONCRETE)
- PROPOSED CONCRETE SIDEWALK WALK TO MATCH EXISTING WITH SMOOTH TRANSITION.
- PROPOSED CONCRETE INTEGRAL CURB FORMED AROUND GRATE INLET LOCATION WITH 0.5' WIDE CONCRETE APRON ON THREE SIDES.
- PROPOSED ENTRY DOOR FROST SLAB.
- EXISTING SCREENED REFUSE ENCLOSURE WITH STORAGE ROOM TO REMAIN.
- EXISTING OUTDOOR PATIO SEATING AREA TO REMAIN.
- PROPOSED EGRESS DOOR. REFER TO ARCH. PLANS FOR SPECIFICATIONS.
- EXISTING ELECTRIC TRANSFORMER CONCRETE PAD TO REMAIN.
- PROPOSED CONCRETE SIDEWALK WITH INTEGRAL CURB.
- EXISTING PYLON SIGN TO REMAIN. SIGNAGE VENDOR TO UPDATE EXISTING PYLON SIGN TO CURRENT CFA SIG STANDARDS. PROVIDE SHOP DRAWINGS FOR REVIEW BY ARCHITECT AND CFA DESIGN PRIOR TO COMPLETING ANY FABRICATION OR WORK.
- PROPOSED DRIVE-THRU DOOR W/ CONCRETE RAMP ACCESS. REFER TO ARCH. PLANS AND GRADING PLAN C-3.0.
- PROPOSED HMAC PAVEMENT SECTION
- PROPOSED BUTT JOINT.
- RELOCATE EXISTING CONCRETE WHEEL STOPPER.
- PROPOSED ALUMINUM HANDRAIL TO TIE INTO EXISTING

SITE LEGEND

- 2 = PARKING SPACE PER ROW
2/24 = DETAIL NUMBER = SHEET NUMBER
- TYPICAL ON-SITE CONCRETE PAVEMENT SECTION, REFER TO SHEET C-4.2
- TYPICAL ON-SITE ASPHALT PAVEMENT SECTION, REFER TO SHEET C-4.2

SITE DATA

STATEMENT OF INTENT
PROPOSED PROJECT IS PART OF OWNER'S EXISTING PROPERTY REINVESTMENT PROGRAM TO IMPROVE CUSTOMER SERVICE AND RESTAURANT OPERATIONS. PROPERTY IMPROVEMENTS WILL INCLUDE BUILDING ADDITION WITH INTERIOR & EXTERIOR RENOVATIONS AND DUAL LANE DRIVE THRU WITH CANOPY. PORTION OF EXISTING PARKING LOT WILL BE ADJUSTED TO SUPPORT ELEMENTS PROPOSED.

ADDRESS: 4623 GULF BLVD ST. PETE BEACH FL 33706
CHICK-FIL-A PARCEL: EXISTING: 0.28 AC.± (12,105 S.F. ±)
ZONING: AC - ACTIVITY CENTER DISTRICT
FUTURE LAND USE: AC - ACTIVITY CENTER DISTRICT
PARCEL ID: 06-32-16-00000-330-0900

BUILDING INFORMATION
EXISTING CONDITION:
EXISTING BUILDING AREA: 4,571 S.F.
EXISTING FLOOR AREA RATIO: 0.3776
NUMBER OF STORIES: 1

PROPOSED CONDITION:
PROPOSED BUILDING EXPANSION AREA: 184 + 93 = 277 S.F.
PROPOSED TOTAL BUILDING AREA: 277 + 4,571 = 4,848 S.F.
PROPOSED FLOOR AREA RATIO: 0.4095
NUMBER OF STORIES: 1

LAND COVERAGE SUMMARY
EXISTING CONDITION:
IMPERVIOUS AREA: 21,783 S.F. (72.71%)
OPEN SPACE: 8,176 S.F. (27.29%)
TOTAL: 29,959 S.F. (100.00%)

PROPOSED CONDITION:
IMPERVIOUS AREA: 21,926 S.F. (73.19%)
OPEN SPACE: 8,033 S.F. (26.81%)
TOTAL: 29,959 S.F. (100.00%)

PARKING INFORMATION
PARKING REQUIRED
1 PER 100 SQUARE FEET OF FLOOR AREA (EXCLUDING STORAGE/WORKING SPACE)
2,296SF/100SF = 23 SPACES

10% WALKABLE AREA REDUCTION = 21 SPACES

PARKING PROVIDED

REGULAR	23 SPACES
HANDICAP	1 SPACES
TOTAL	24 SPACES*

*CHICK-FIL-A HAS CROSS PARKING EASEMENT RIGHTS WITH DEVELOPMENT TO MEET THE REQUIRED PARKING

GENERAL NOTES

- DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS SHOWN (BOC) WHICH INDICATES BACK OF CURB.
- ALL CURBED RADI ARE TO BE 10' AND 3' UNLESS OTHERWISE NOTED.
- ALL SIGNS SHALL HAVE A 70" MIN. CLEARANCE FROM FINISH GRADE TO BOTTOM OF LOWEST SIGN MOUNTED ON POST. ALL SIGNAGE INCLUDING REGULATORY SIGNAGE, SHALL MEET THE LOCAL AGENCY DESIGN GUIDELINES & MUTCD REQUIREMENTS.
- ALL SIGNS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- ALL STRIPING SHALL BE IN CONFORMANCE WITH LOCAL AGENCY REQUIREMENTS.
- ADJUST ALL MANHOLE RINGS AND CLEAN OUT COVERS TO BE FLUSH WITH FINISHED GRADE. ALL PARTS TO BE TRAFFIC BEARING (AASHTO H-20 LOADING). MANHOLE COVERS SHALL MEET THE LOCAL AGENCY STANDARD.
- TRANSITIONS TO BE FLUSH ALL ALONG THE ACCESSIBLE ROUTE. CONTRACTOR SHALL ENSURE THE MAXIMUM CONSTRUCTED LEVEL TRANSITION AT EVERY JOINT DOES NOT EXCEED THE MAXIMUM ALLOWABLE UNDER THE ADA AFTER SETTLEMENT, EXPANSION, CONTRACTION, ETC. CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
- ALL CONCRETE POURS SHALL BE BOUND BY EXPANSION JOINTS WHEN ABUTTING ANOTHER CONCRETE POUR / SLAB OR ASPHALT PAVEMENT, INCLUDING CURBING.
- ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
- REPOSITION OR RELOCATE SECURITY/OPERATIONAL CAMERAS AT SERVICE YARD AREA, REFER ARCH/MPE PLANS.
- EXISTING ASPHALT PAVEMENT TO BE RESEALED WITH ASPHALT SEALANT AT COMPLETION OF PROJECT SITE WORK. EXISTING STRIPING AND PAVEMENT MARKINGS SHALL BE REPAINTED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED.
- ALL EXPOSED METALS SHALL BE REPAINTED DARK BRONZE, WHICH SHOULD INCLUDE, BUT LIMITED TO, SIGN POSTS, BOLLARDS, LIGHT POLES, GAS PIPING & DUMPSTER ENCLOSURE APPURTENANCES.
- SITE GEOTECHNICAL INVESTIGATION PERFORMED BY TERRACON CONSULTANTS, INC. CPH, INC. ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, ACCURACY OR COMPLETENESS OF THEIR SCOPE OF WORK. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FOR THIS SITE PRIOR TO CONSTRUCTION AND COMPLY WITH THE RECOMMENDATIONS CONTAINED WITHIN.
- ALL EXISTING STRIPING SHALL BE RE-STRIPED TO MATCH EXISTING CONDITIONS UNLESS NOTED OTHERWISE ON PLAN.



Chick-fil-A

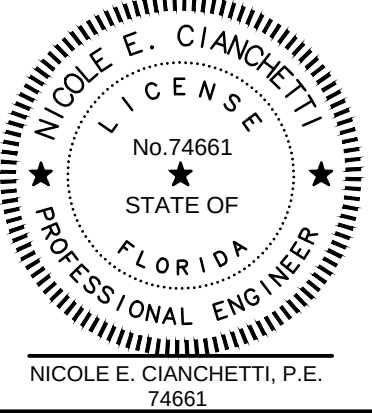
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5200 Buffington Road
Atlanta, Georgia
30349-2998



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CPH, Inc.
State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect No. AA26000926
Landscape No. LC000298



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CHICK-FIL-A

St. Pete Beach

4623 Gulf Blvd.

St. Pete Beach, Florida

33706

FSR#01740

BUILDING TYPE / SIZE: S03-SERIES
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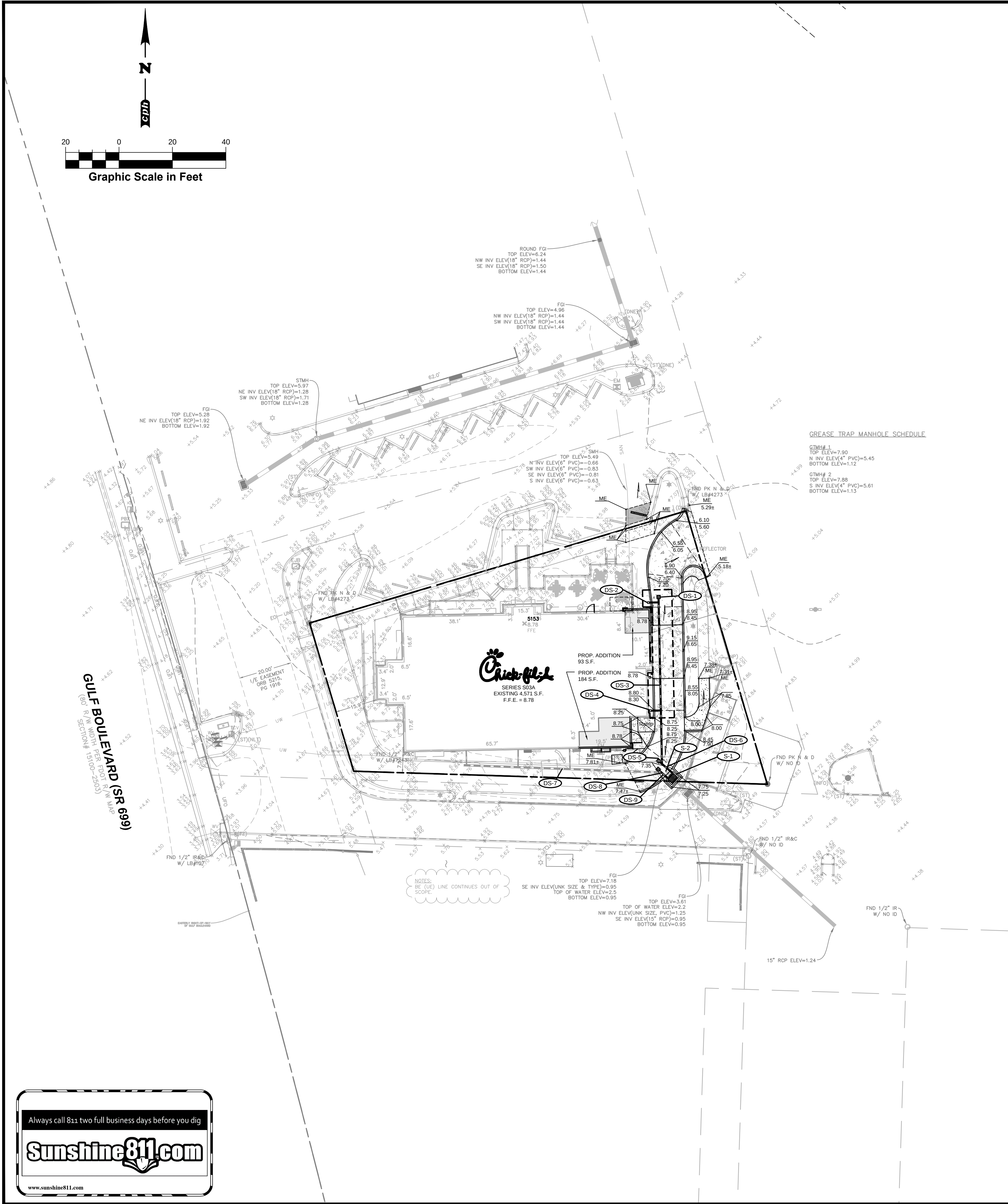
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SHEET
SITE PLAN

SHEET NUMBER

C-2.0



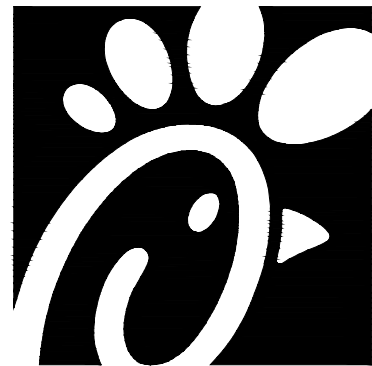


PROPOSED STORM SEWER SCHEDULE	
S-1	REMOVE EXISTING STORM INLET AND PIPE TO LIMITS REQUIRED TO CONNECT TO PROPOSED INLET STRUCTURE LOCATION.
S-2	TYPE 'C' INLET PER FDOT INDEX No. 425-052 WITH MESHGUARD GRATE ELEV. 7.20 S.E. F.L. 0.95 (EXISTING 15" RCP) N.W. F.L. 0.95 (PROPOSED 8" STORM PIPE) N.W. F.L. 0.95 (PROPOSED 6" STORM PIPE)

PROPOSED DOWNSPOUT STORM SEWER SCHEDULE	
DS-1	6" WYE W/ CLEANOUT, F.L. 4.20
DS-2	CANOPY DOWNSPOUT SUBSURFACE CONNECTION W/ 6" PVC @ 1.00% MIN. SLOPE TO MANIFOLD PIPE (CONVERT EXISTING COW TONGUE TO SUBSURFACE DISCHARGE, CONTRACTOR TO FIELD VERIFY PIPE CONNECTION REQUIREMENTS) RE. TO ARCHMPE
DS-3	60' - 6" STORM PIPE @ 1.00%
DS-4	CANOPY DOWNSPOUT SUBSURFACE CONNECTION W/ 6" PVC @ 1.00% MIN. SLOPE TO MANIFOLD PIPE (CONVERT EXISTING COW TONGUE TO SUBSURFACE DISCHARGE, CONTRACTOR TO FIELD VERIFY PIPE CONNECTION REQUIREMENTS) RE. TO ARCHMPE
DS-5	6" WYE W/ CLEANOUT, F.L. 3.60
DS-6	6" - 6" STORM PIPE @ 44.17%
DS-7	EXISTING 8" MANIFOLD PIPE WITH ROOF DOWNSPOUT CONNECTIONS (FIELD VERIFY)
DS-8	CONNECT TO EXISTING 8" MANIFOLD PIPE WITH 8" WYE W/ CLEANOUT, F.L. 1.00 +/- (FIELD VERIFY)
DS-9	4" - 8" STORM PIPE @ 1.25%

LEGEND	
X.XX	PROPOSED TOP OF CURB ELEV.
X.XX	PROPOSED PAVEMENT ELEV.
X.XX	PROPOSED TOP OF SIDEWALK ELEV.
M.E.	MATCH EXISTING PAVEMENT / BOTTOM OF CURB ELEV.
H.P.	PROPOSED HIGH POINT
→	PROP. DRAINAGE FLOW DIRECTION
—	PROP. STORM PIPE
□	PROP. CLEAN OUT

- ### GENERAL GRADING NOTES
- PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON PLANS. AS CONSTRUCTION PROGRESSES, THE CONTRACTOR SHALL PERIODICALLY CHECK THE SEDIMENTATION CONTROLS AND REPAIR THEM AS NECESSARY TO KEEP THEM IN GOOD FUNCTIONING ORDER. THE CONTRACTOR SHALL ALSO PROTECT INLETS AND OTHER SITE APPURTENANCES FROM SEDIMENTATION USING PROTECTION AS DETAILED IN THE PLANS.
 - THE CONTRACTOR SHALL CONDUCT GROUND STABILIZING MEASURES (PAVING, GRASSING, MULCHING AND SODDING) AS SOON AS PRACTICABLE FOLLOWING FINAL GRADING OF THE SITE.
 - FOLLOWING COMPLETION OF CONSTRUCTION AND COMPLETED STABILIZATION OF POTENTIAL EROSION AREAS, THE CONTRACTOR SHALL REMOVE SEDIMENTATION CONTROL MEASURES AND CLEAN AND REPAIR ANY AREAS AFFECTED BY THE CONSTRUCTION ACTIVITIES. ANY SITUATION IN THE STORMWATER SYSTEM SHALL BE COMPLETELY FLUSHED PRIOR TO CERTIFICATION OF COMPLETION.
 - HAVING CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 125149-0276-G, CITY OF ST PETE BEACH, EFFECTIVE SEPTEMBER 3, 2003, THE SUBJECT PROPERTY APPEARS TO LIE IN ZONE AE, WHICH ARE SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100 YEAR FLOOD WITH BASE FLOOD ELEVATIONS DERIVED AS 11 FEET (NAVD '85). THIS DETERMINATION WAS BASED ON GEOSPATIAL DATA DOWNLOADED FROM WWW.FEMA.GOV AND THE SHAPE FILE DISPLAYED HEREON WAS REFERENCED TO ABOVE GROUND IMPROVEMENTS. THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS
 - THIS PROJECT IS PENDING APPROVAL BY SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
 - CONTRACTOR SHALL FIELD VERIFY EXISTING AND SURROUNDING DEVELOPMENT GRADES AND CONTACT ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY POSITIVE DRAINAGE FLOW AWAY FROM BLDG. AND THAT A MINIMUM SLOPE OF AT LEAST 1% IN THE DIRECTION OF DRAINAGE FLOW INDICATED CAN BE ACHIEVED.
 - PROPOSED CONCRETE SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED ADA PEDESTRIAN ACCESS ROUTE REQUIREMENTS OF 5% MAX. LONGITUDINAL SLOPE & 2% MAX. CROSS SLOPE
 - PROPOSED HANDICAP PARKING SPACES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - 0.5' STEP RISE IN ELEVATION SHALL NOT BE EXCEEDED WHERE EXISTING SIDEWALK IS TO REMAIN AND NEW CURB & PAVEMENT IS TO BE CONSTRUCTED ABUTTING. CONTRACTOR SHALL FIELD VERIFY EXISTING SIDEWALK ELEVATIONS AND NOTIFY ENGINEER IF CONFLICTS ARE DETERMINED.
- ### PROPOSED STORM SYSTEM NOTES
- ALL PIPES IN LEGEND SPECIFIED AS "STORM PIPE" SHALL BE SELECTED FROM THOSE LISTED IN GENERAL NOTES, STORM SEWER SYSTEMS, SHEET C-1.0B.
- FOR INLET BOTTOMS SEE FDOT INDEX NO. 425-010.
 - FOR SUPPLEMENTAL DETAILS SEE FDOT INDEX NO. 425-001.
 - ALL DRAINAGE STRUCTURES, INCLUDING CLEAN-OUTS, SHALL BE INSTALLED WITH TRAFFIC BEARING GRATES, TOPS, RINGS AND COVERS, ETC. AS APPLICABLE.
 - ALL PROPOSED INLET GRATES SHALL BE H20 TRAFFIC BEARING RETICULINE STEEL.
 - PIPE CROSSING AT THIS LOCATION HAS BEEN CALCULATED TO BE LESS THAN 12" CLEARANCE. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO ENSURE JOINTS/BELLS DO NOT ALIGN VERTICALLY AT CROSSING POINT AND SAID JOINTS HAVE AT LEAST 2 FEET HORIZONTAL CLEARANCE FROM CROSSING POINT.



Chick-fil-A

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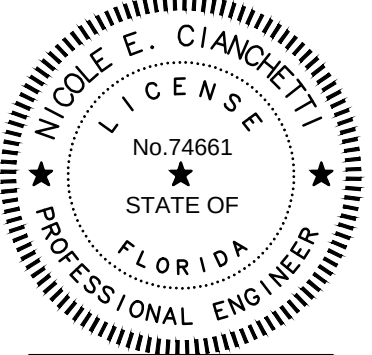
State of Florida Licenses:

Engineer No. 3215

Surveyor No. LB7143

Architect. No. AA26000926

Landscape No. LC000298



NICOLE E. CIANCHELLI, P.E.
74661

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CHICK-FIL-A

St. Pete Beach

4623 Gulf Blvd.

St. Pete Beach, Florida

33706

FSR#01740

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SHEET

GRADING PLAN

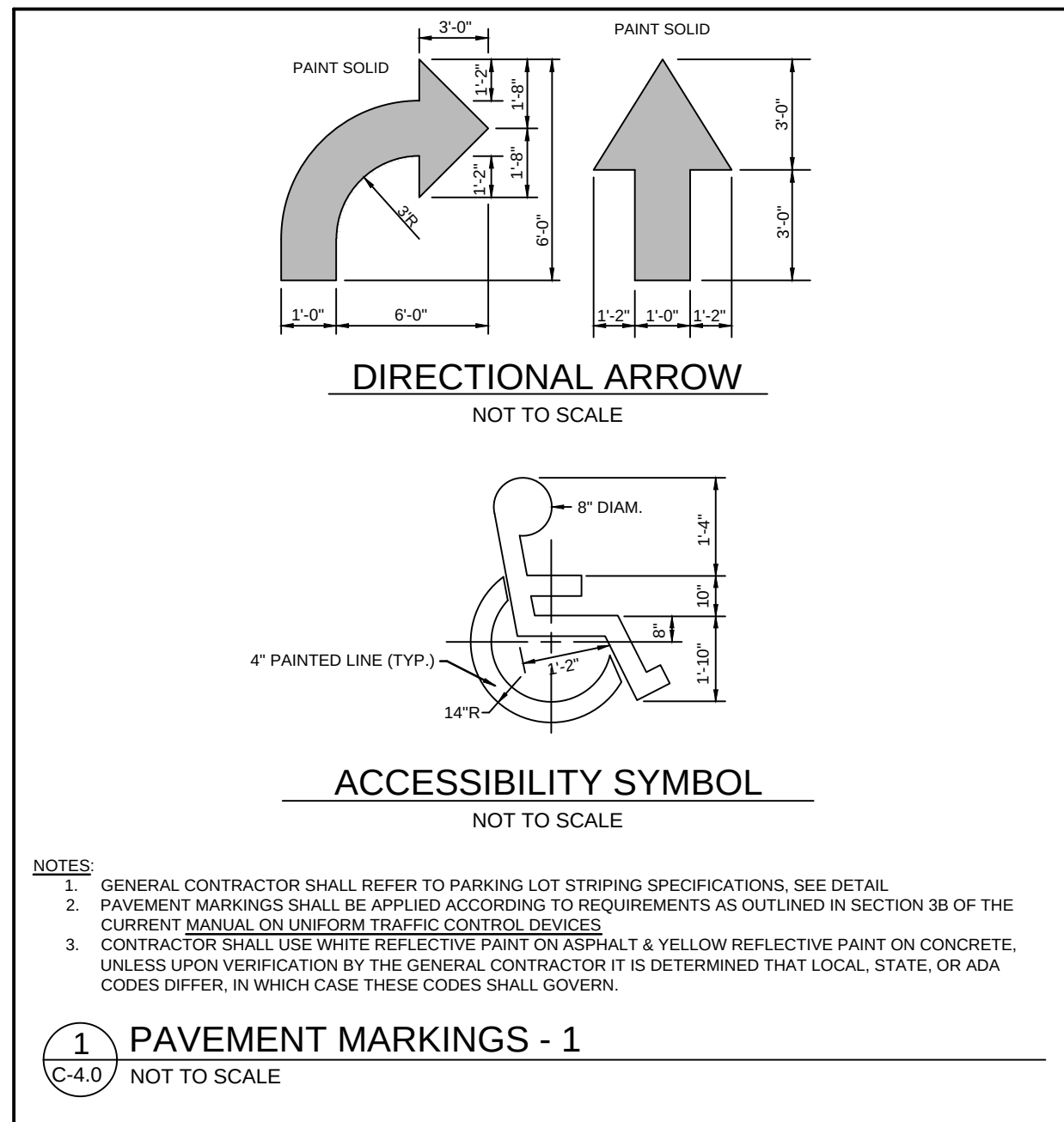
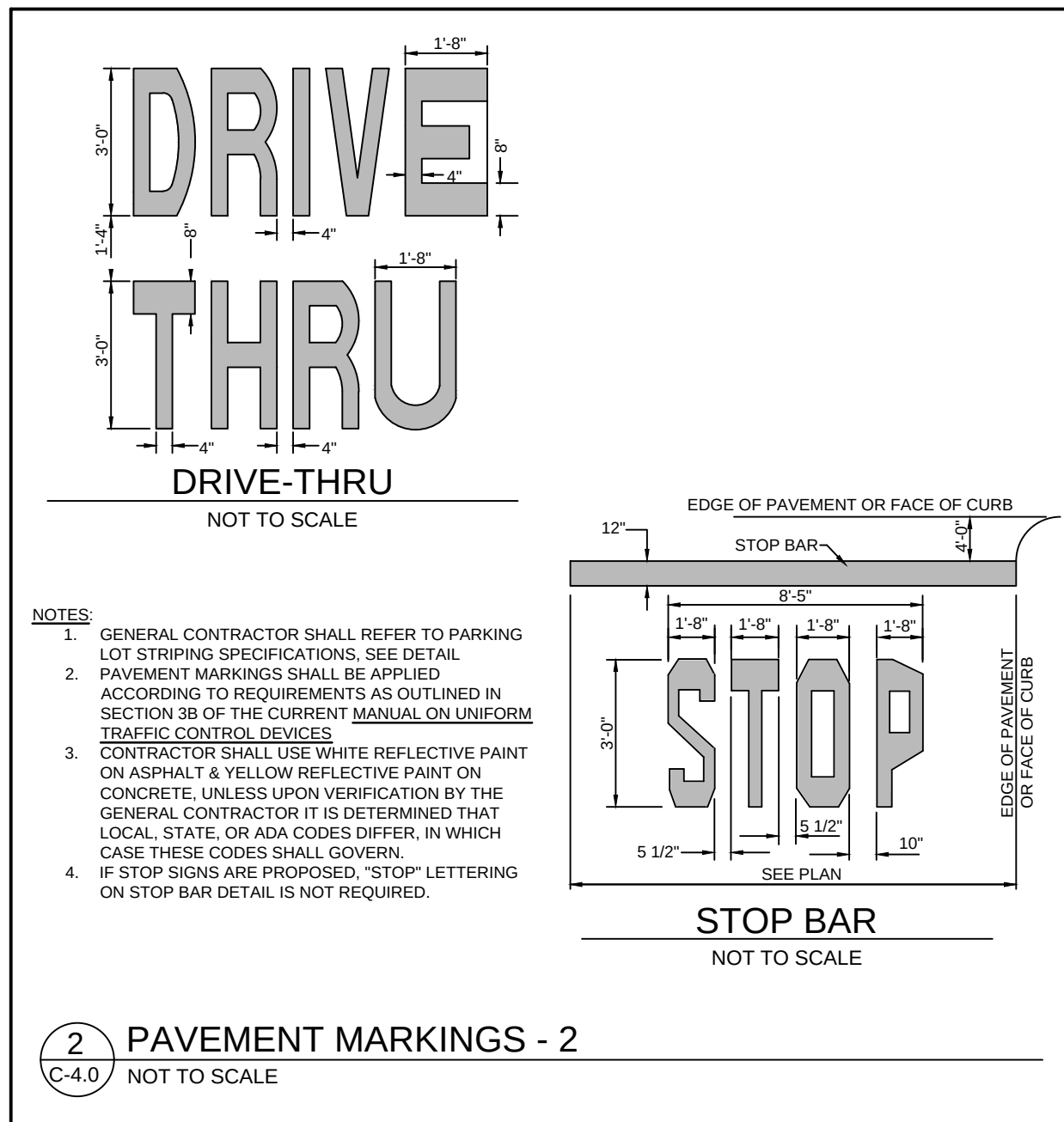
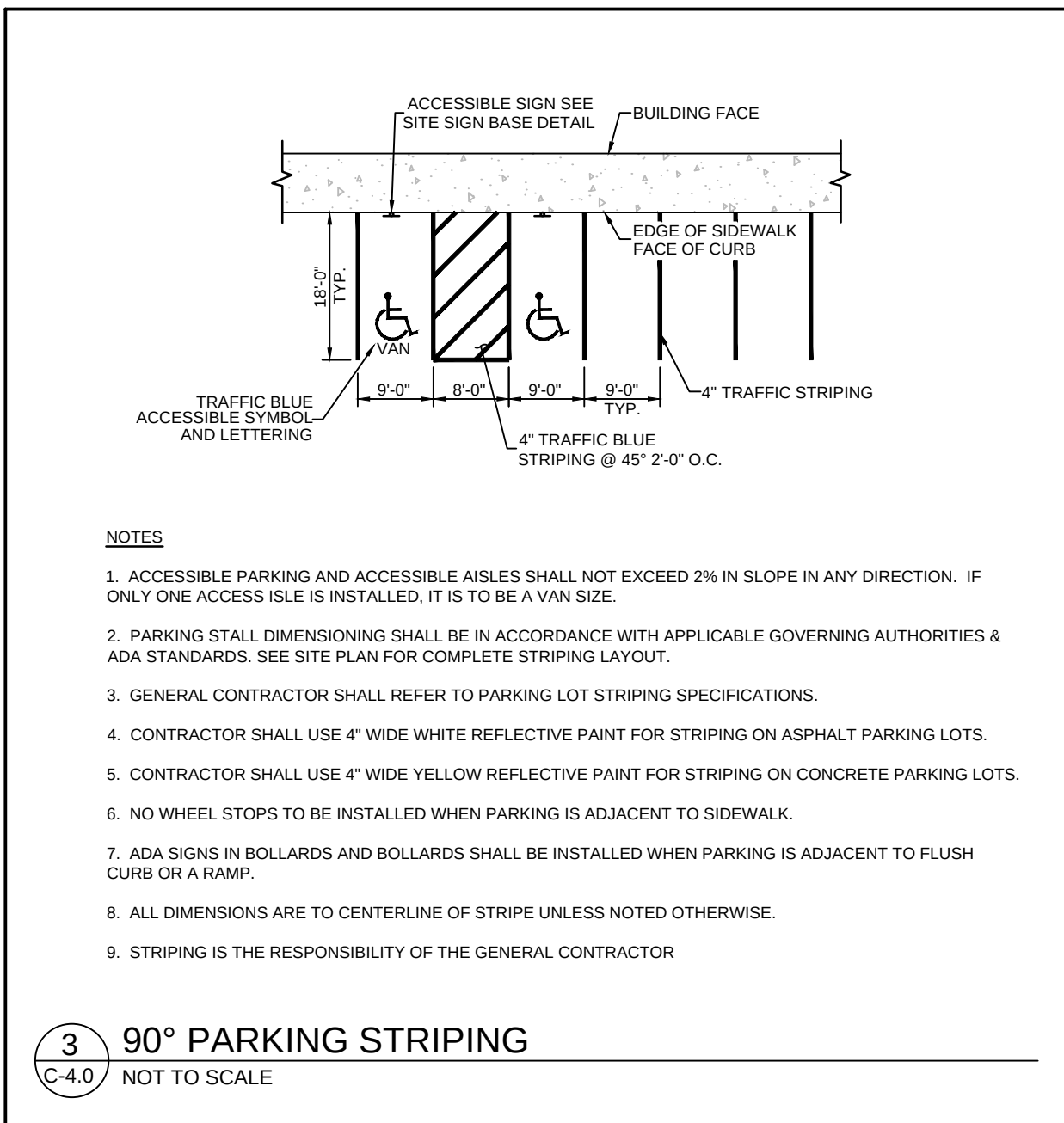
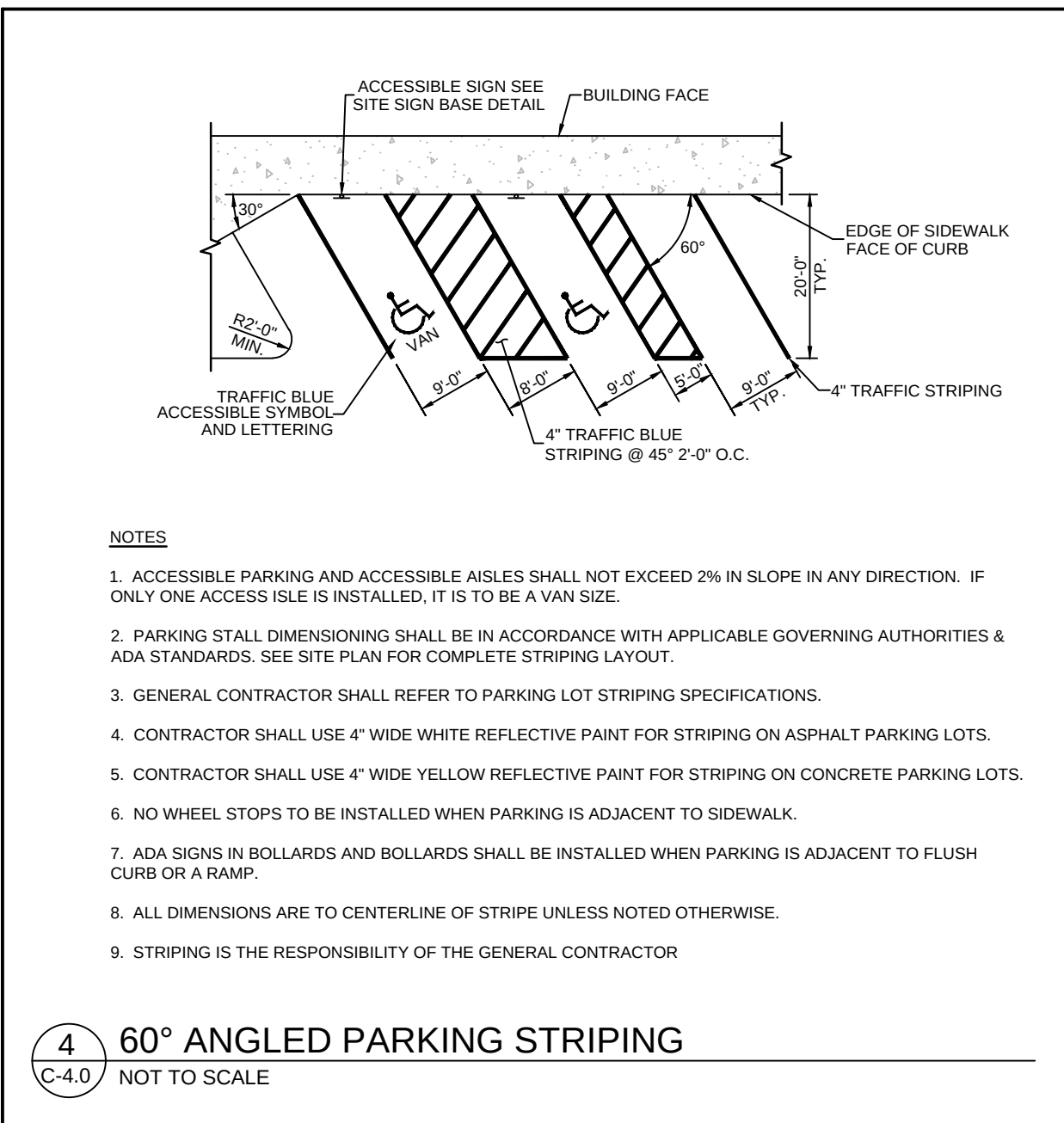
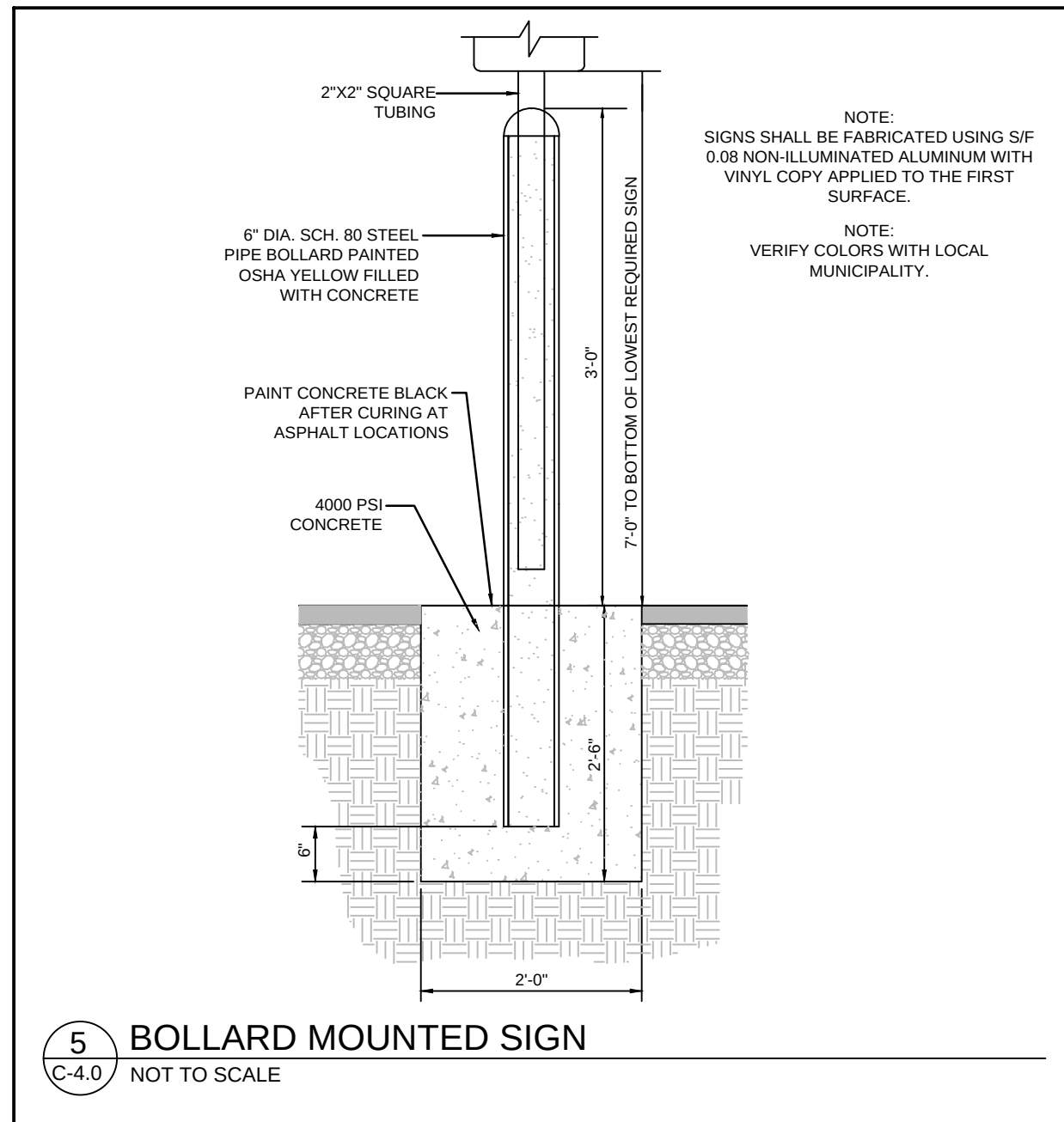
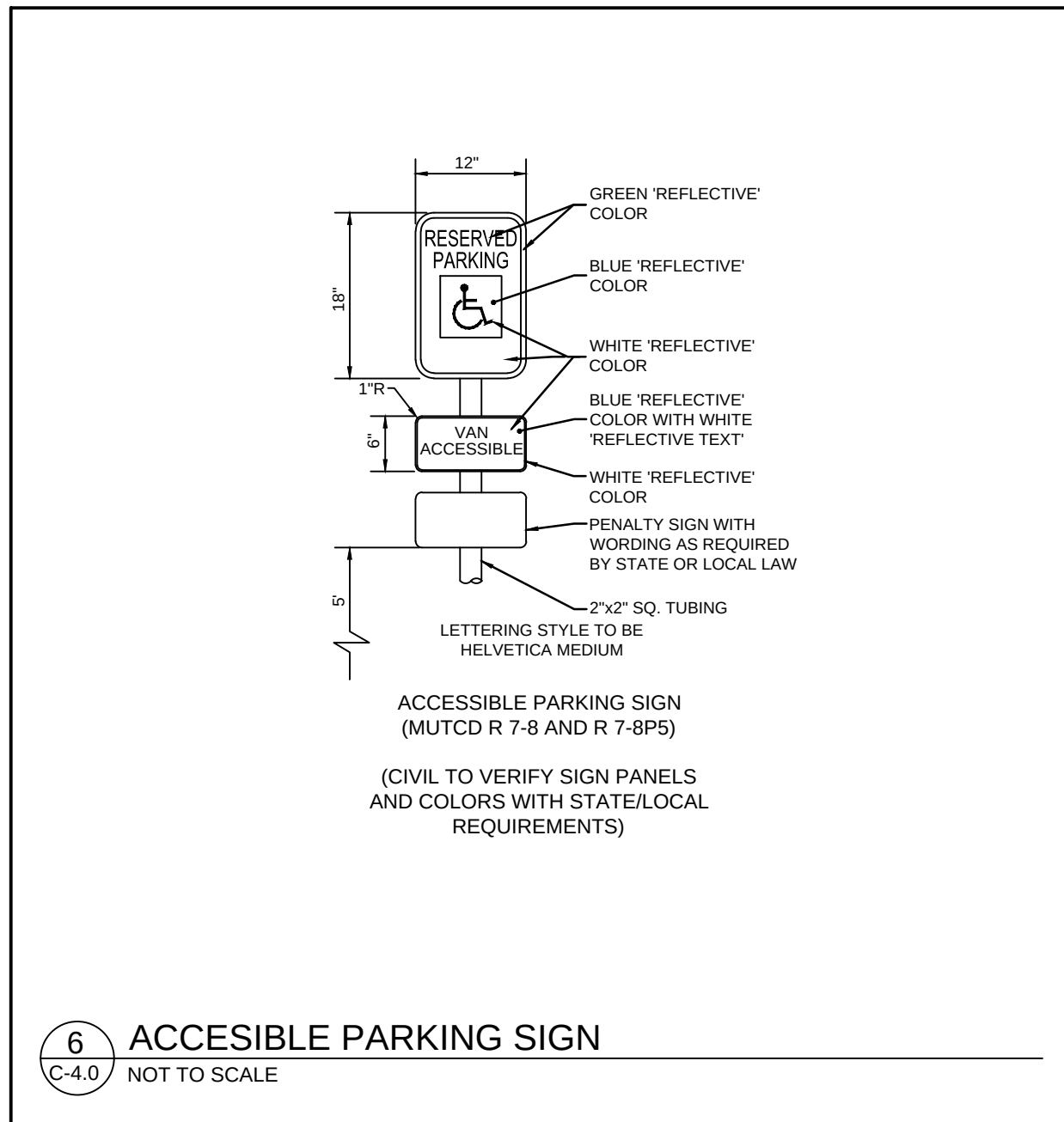
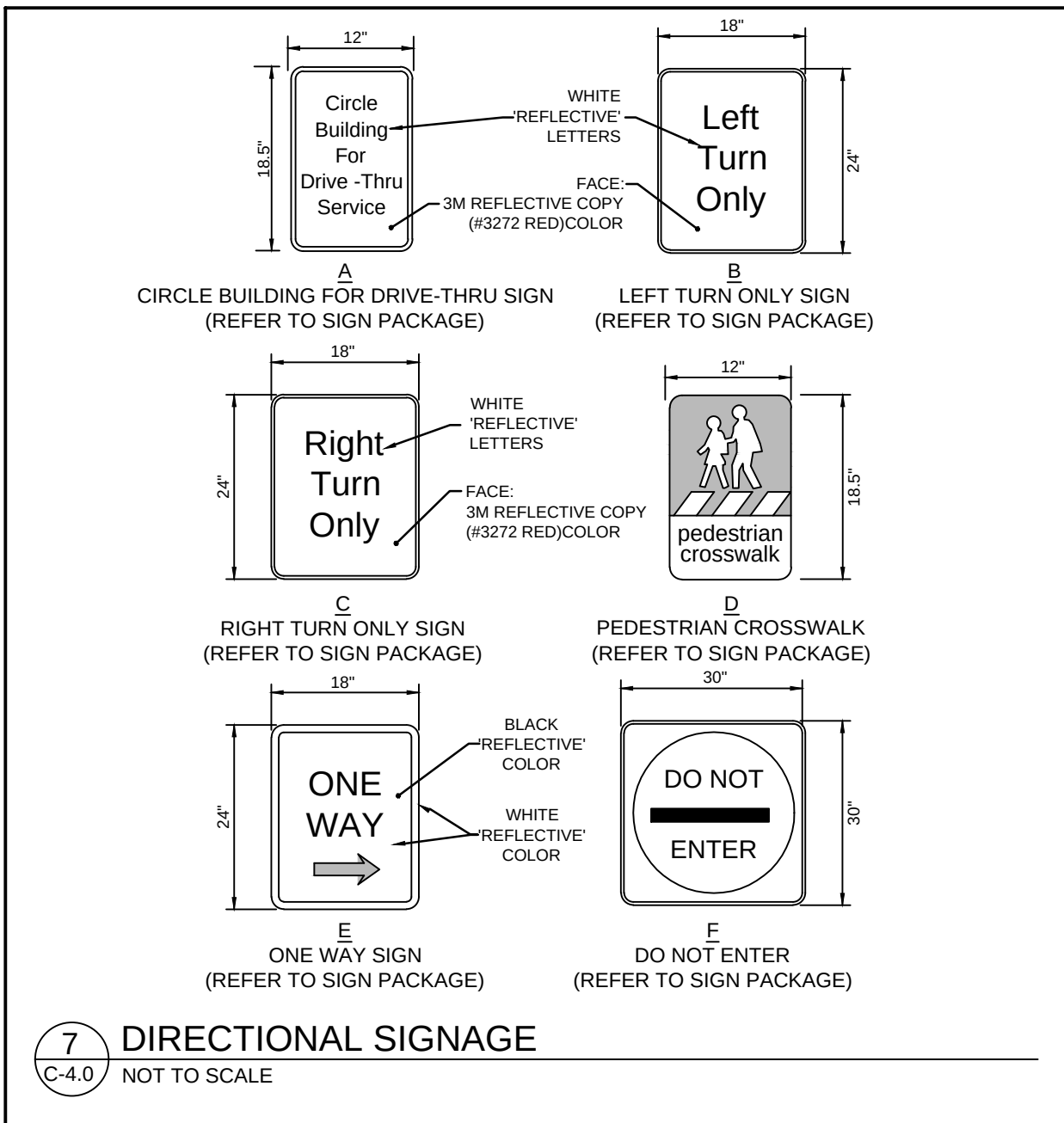
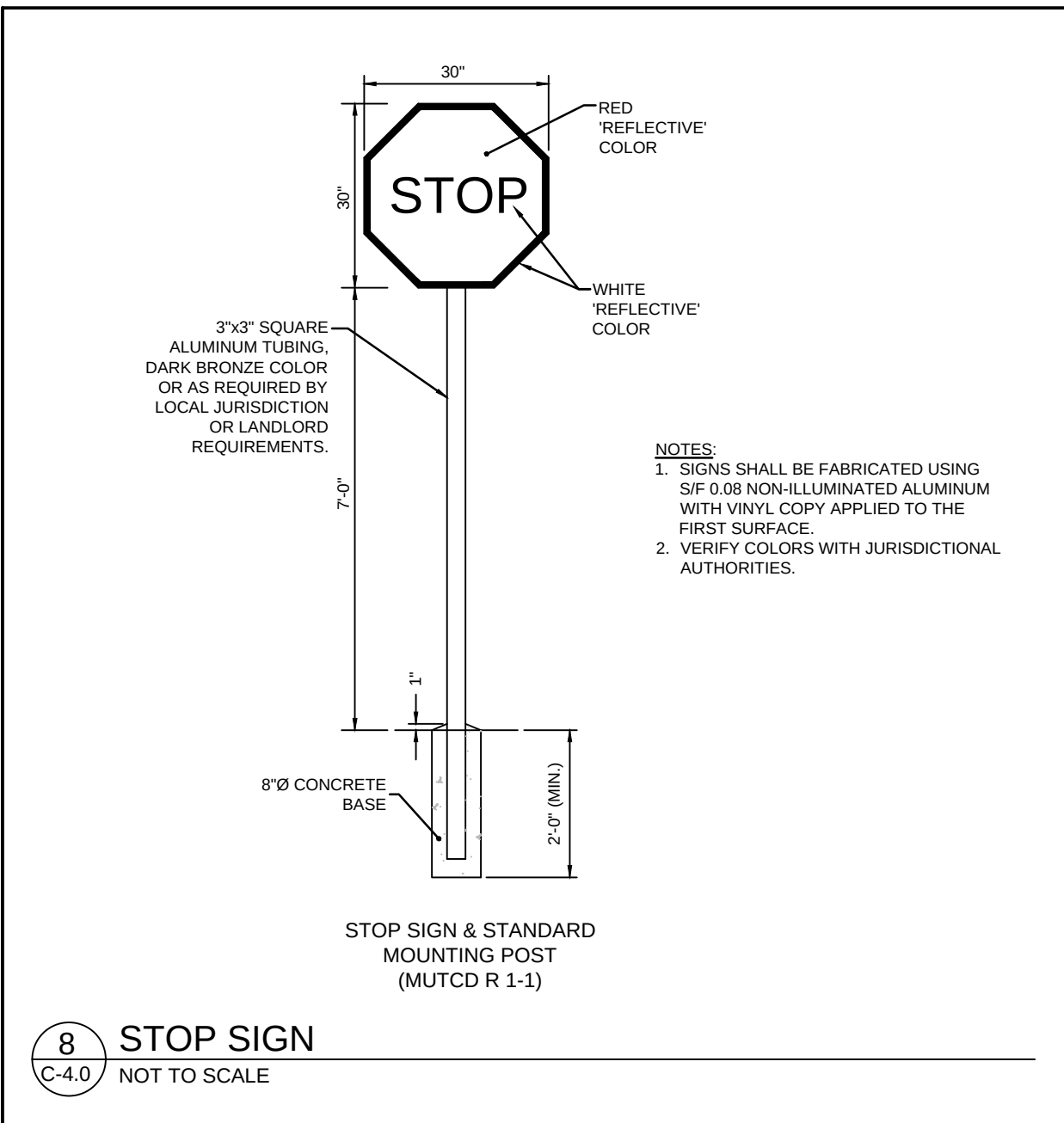
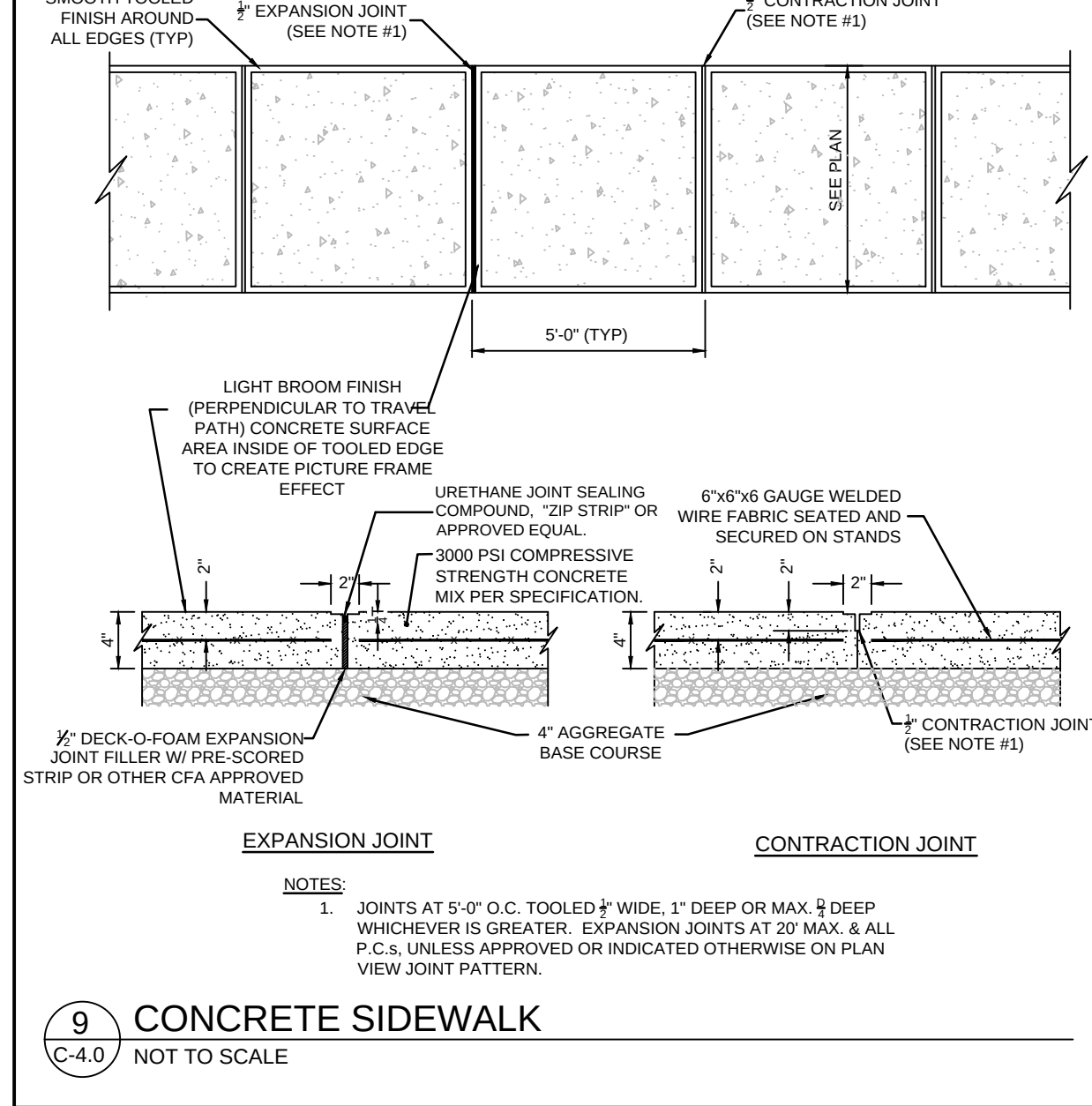
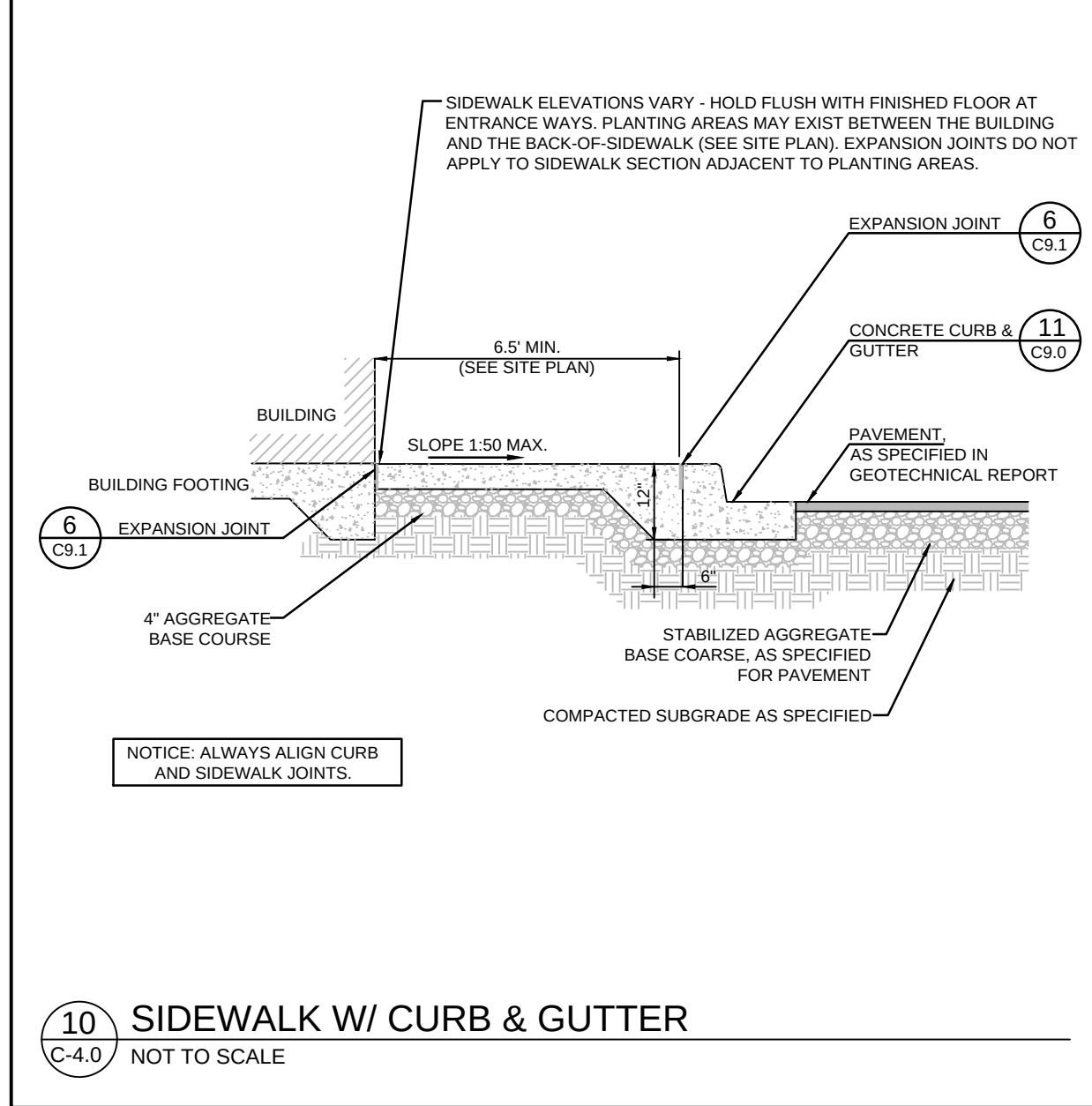
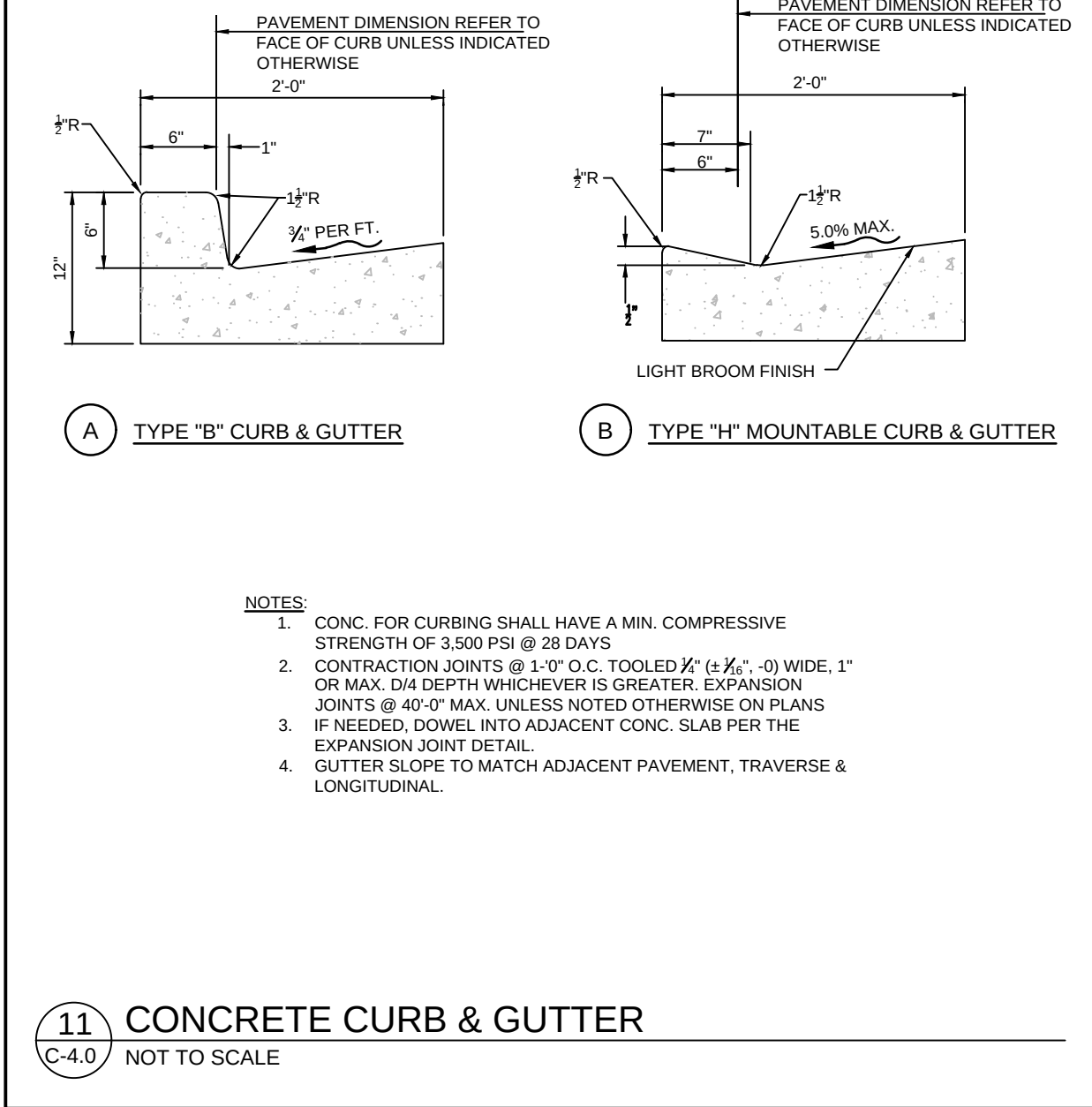
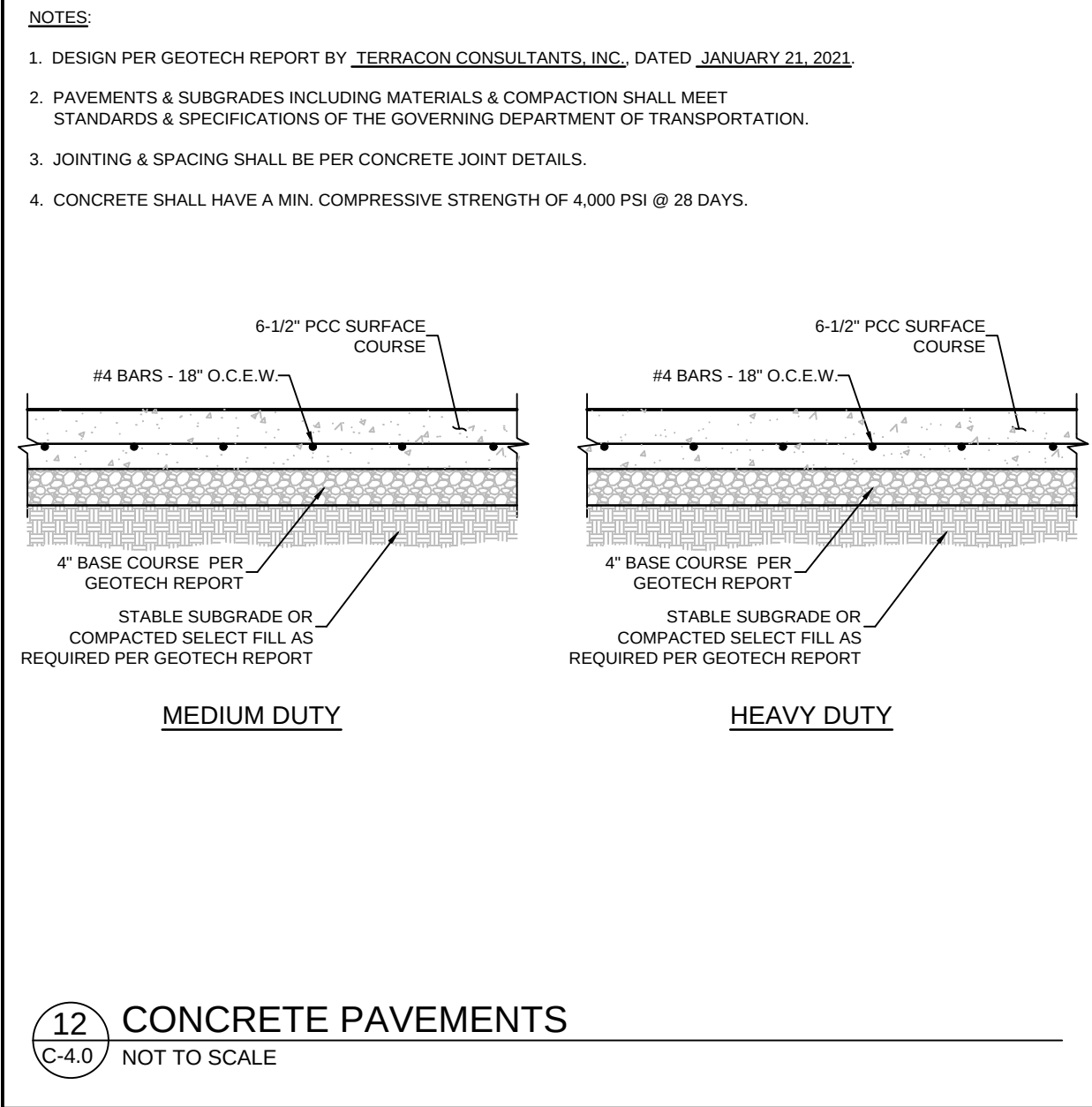
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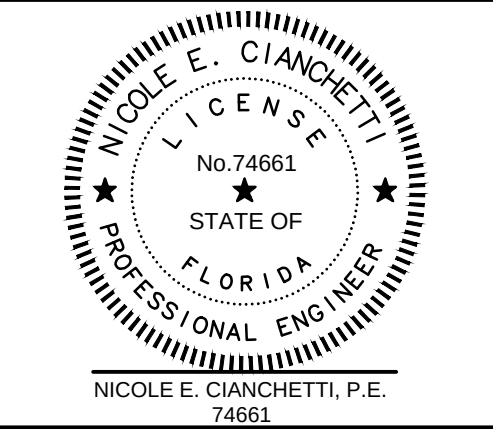
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Architect No. AA26000926
Landscape No. LC000298



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St. Pete Beach
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St. Pete Beach, Florida
33706

FSR#01740

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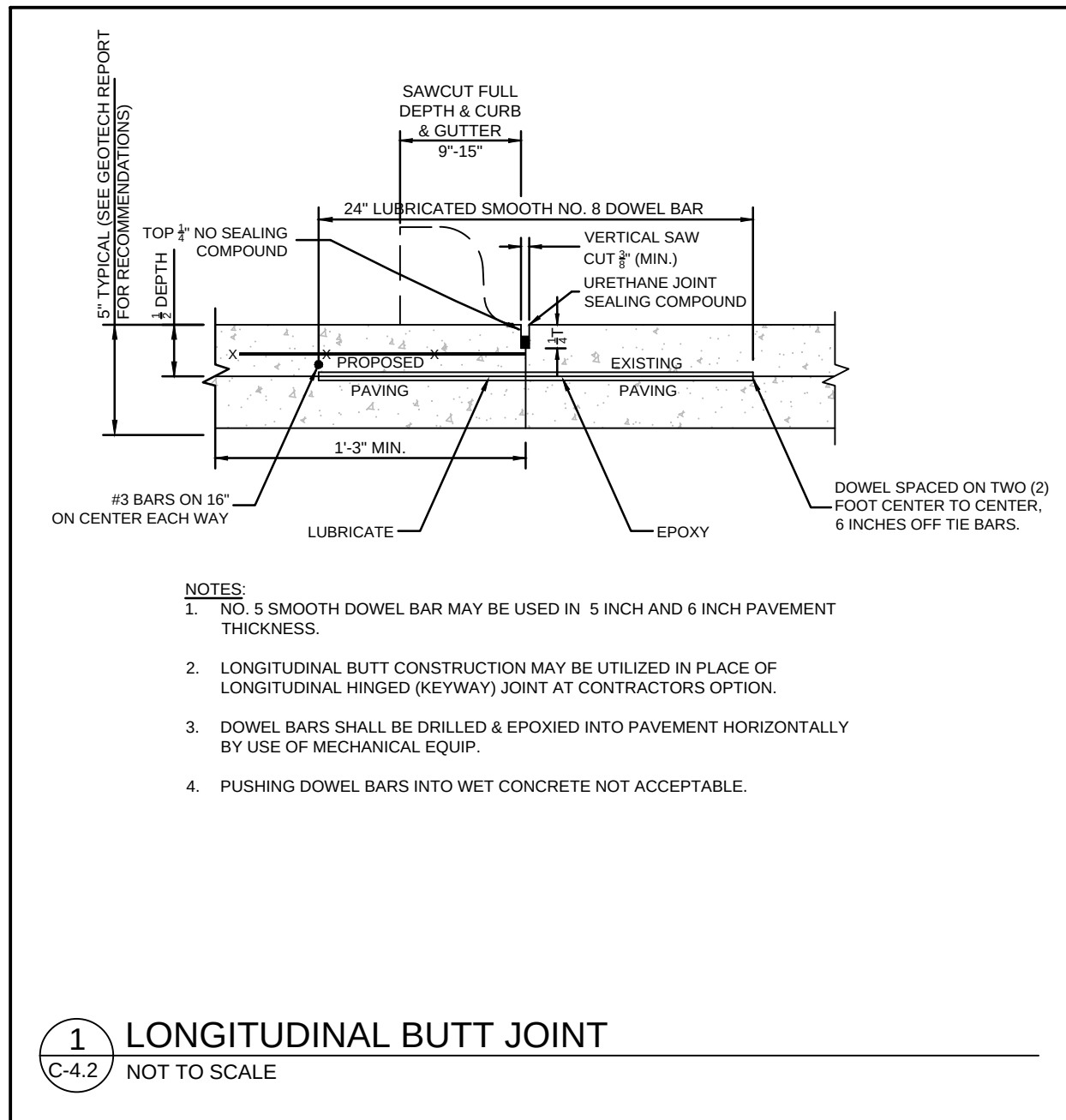
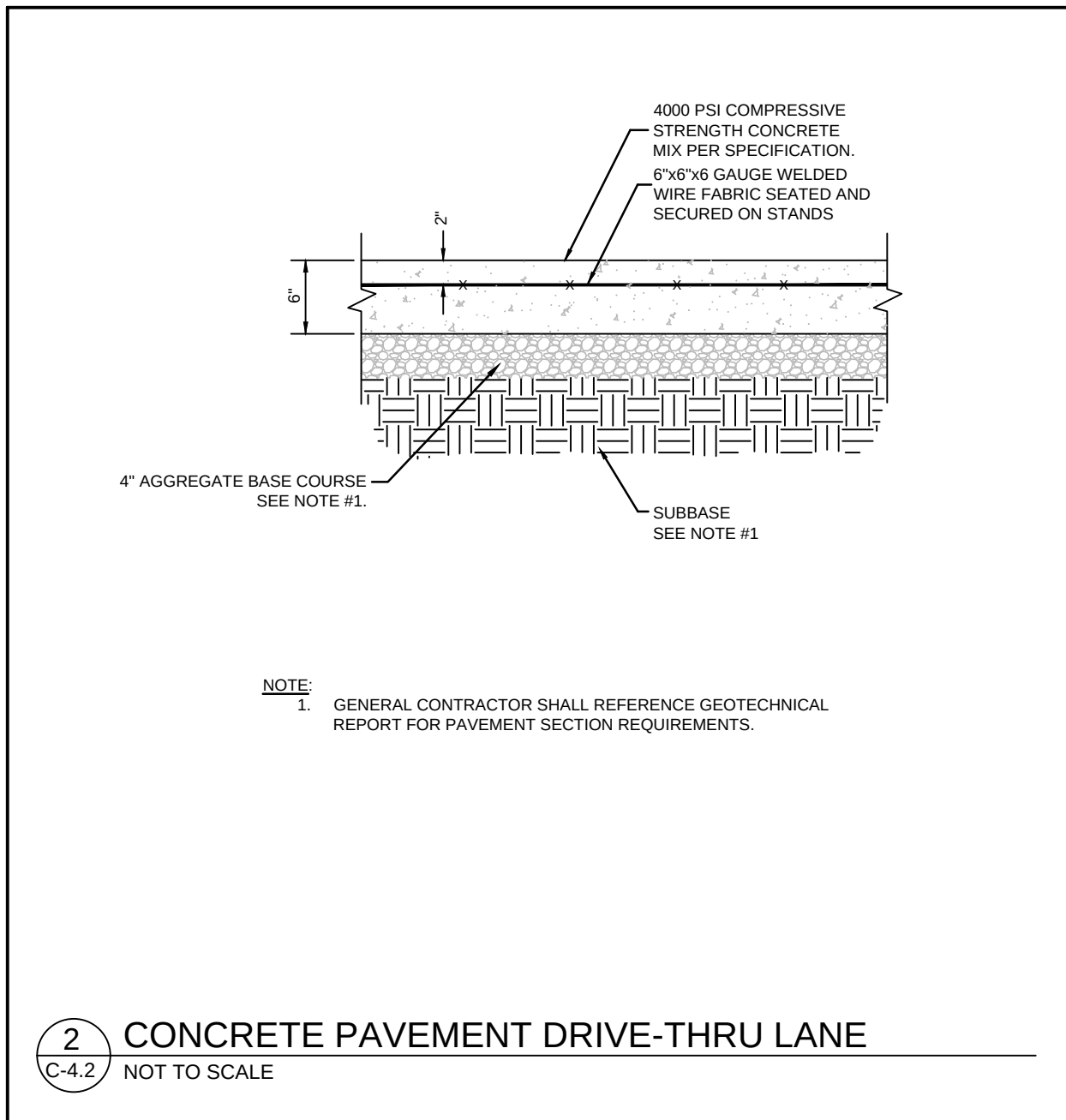
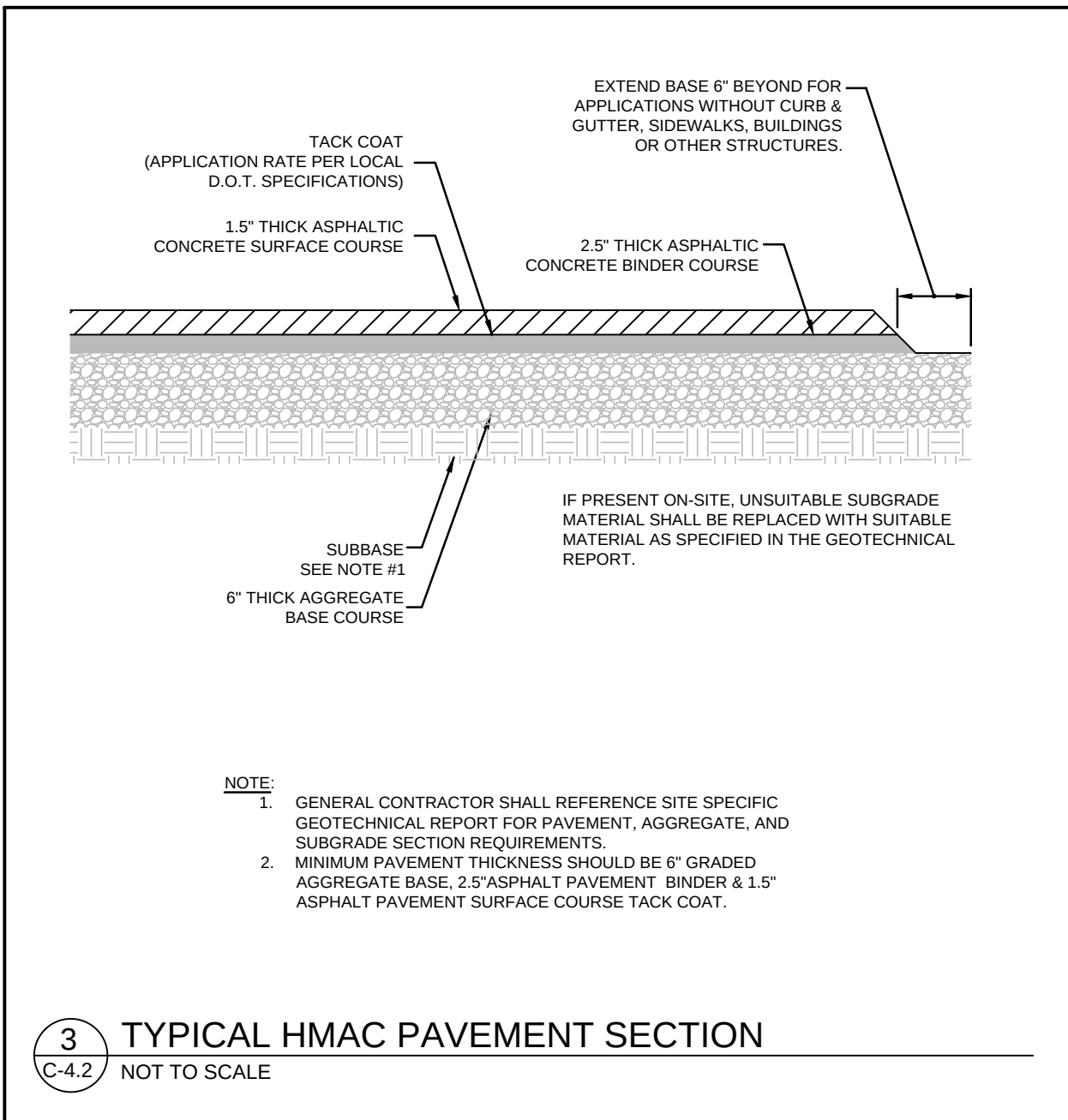
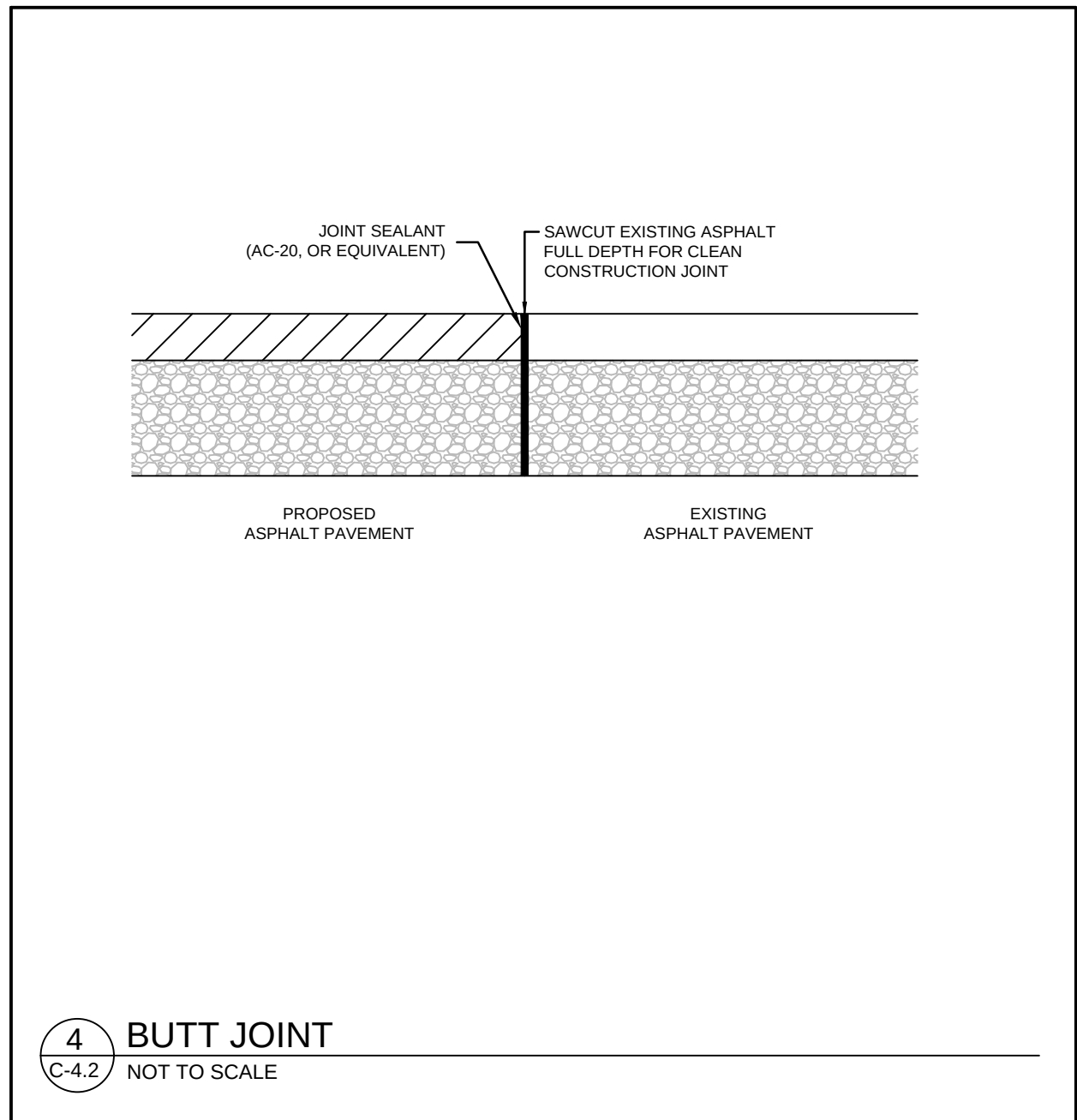
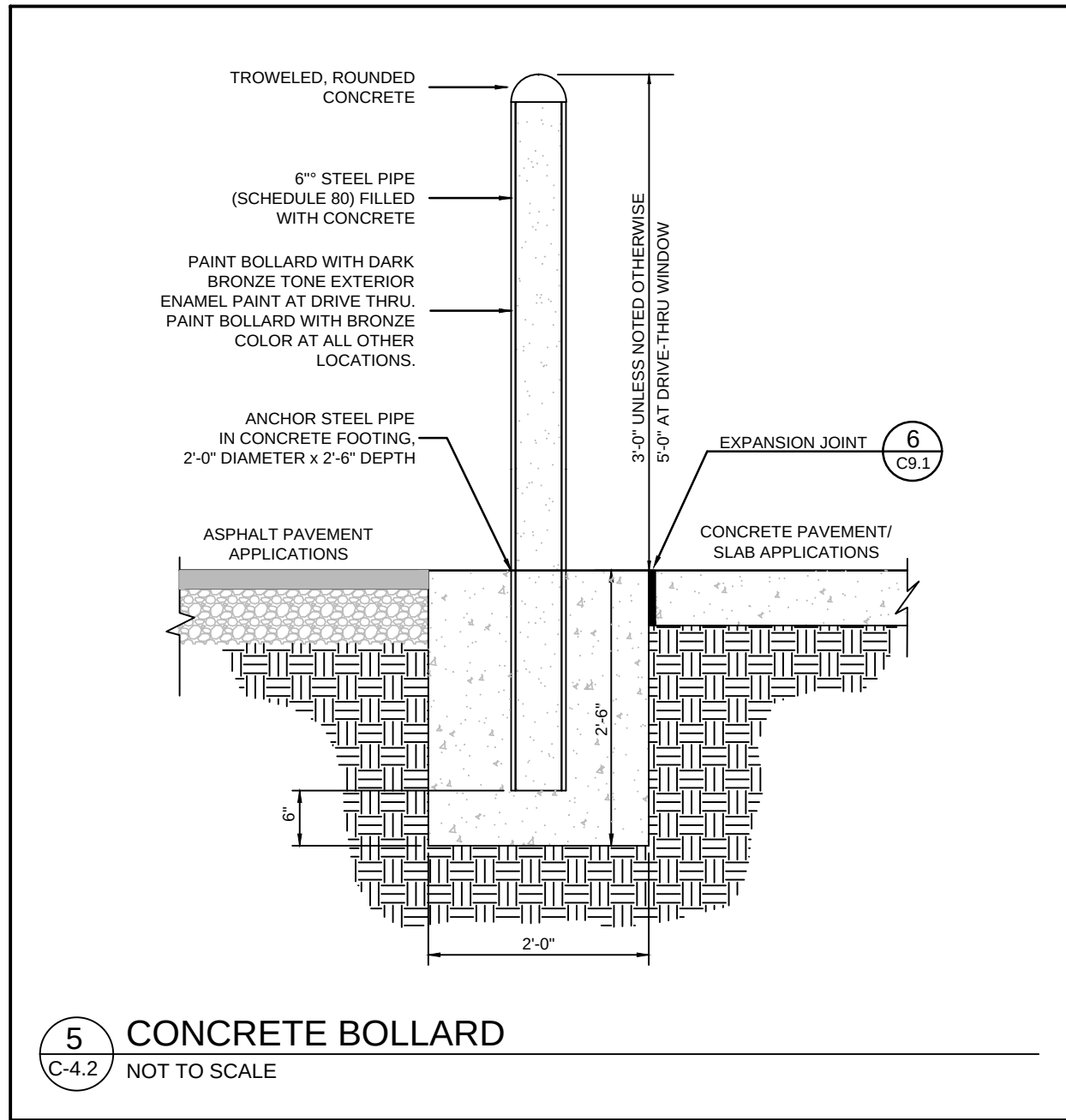
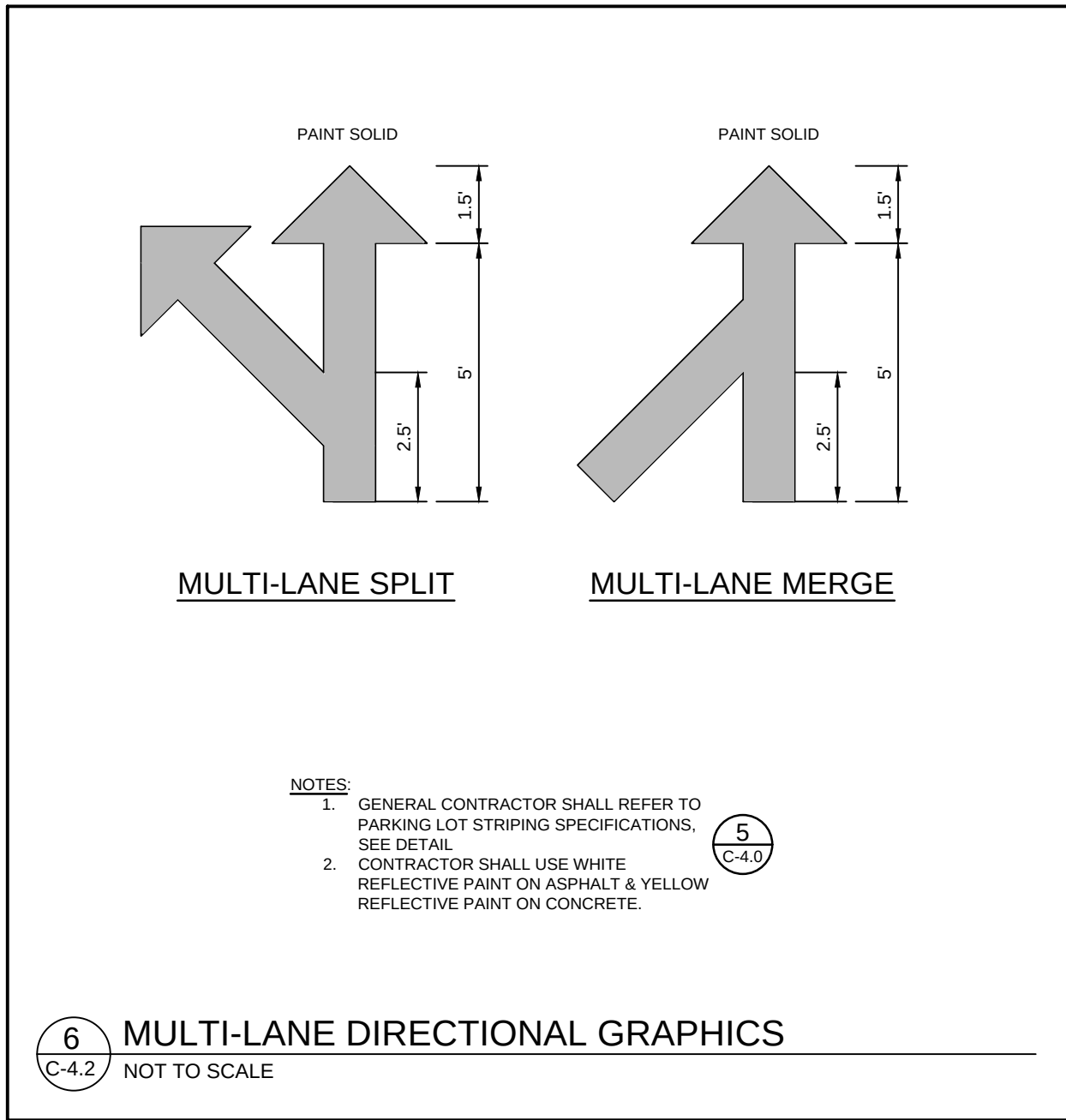
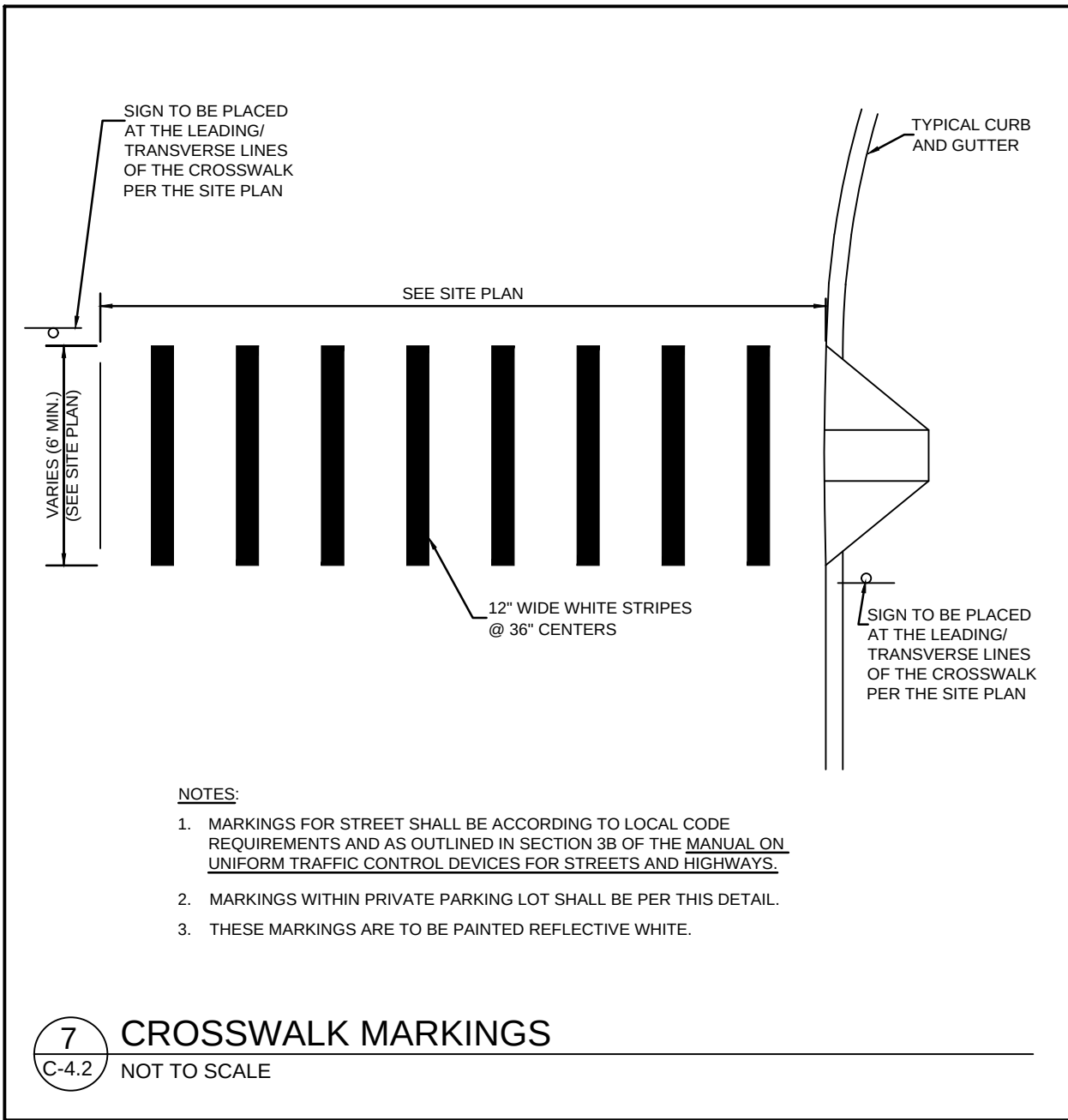
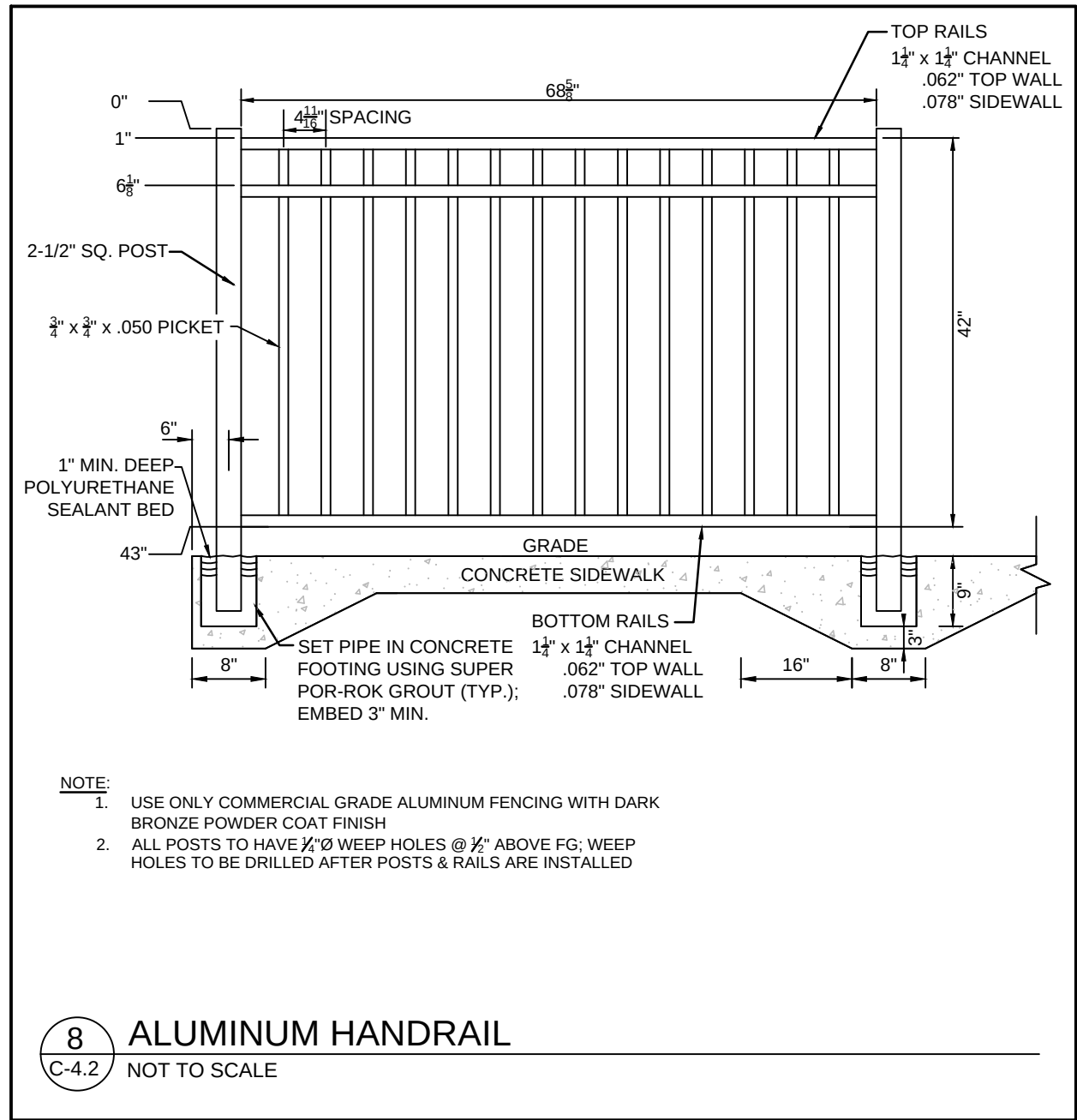
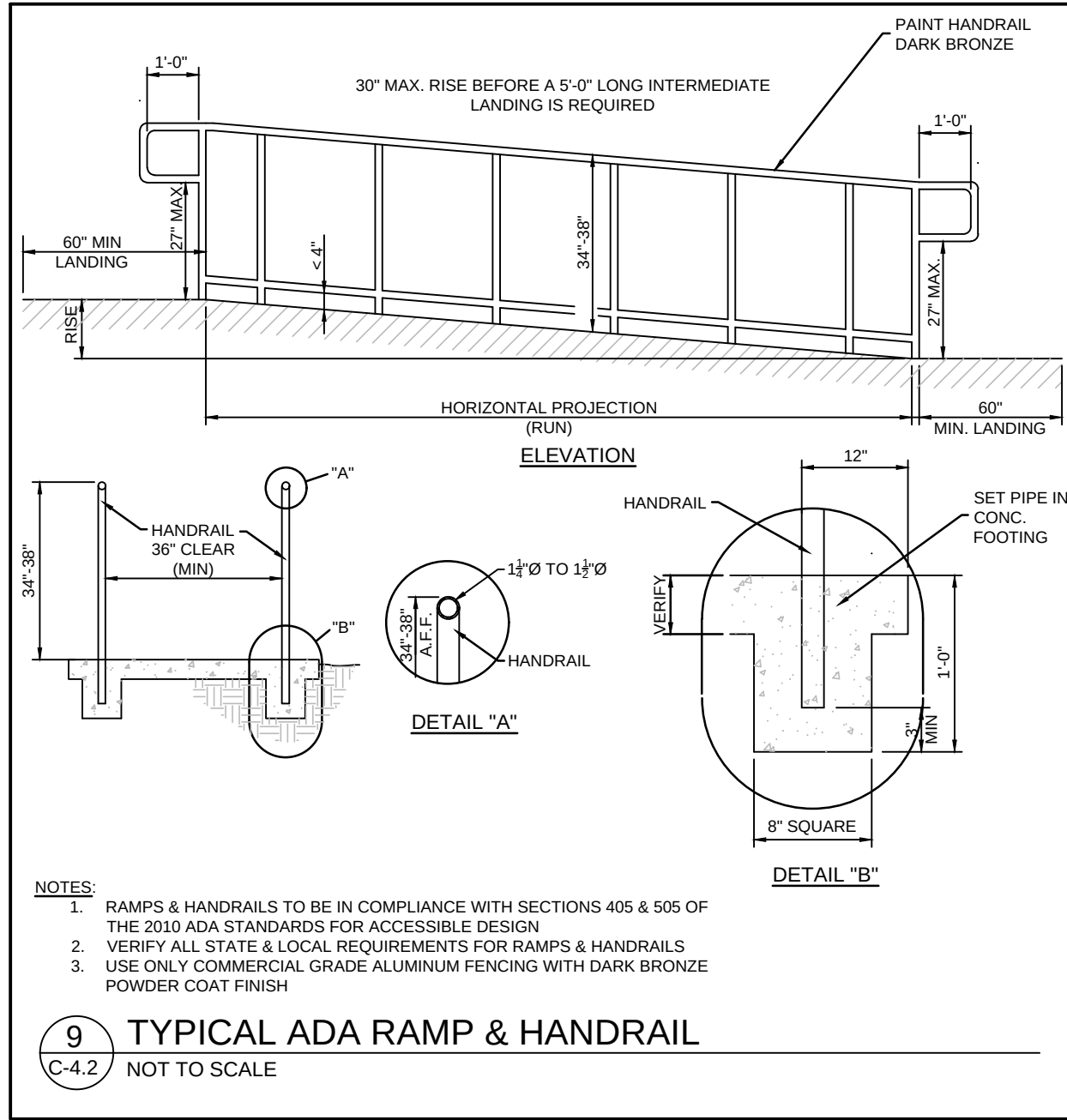
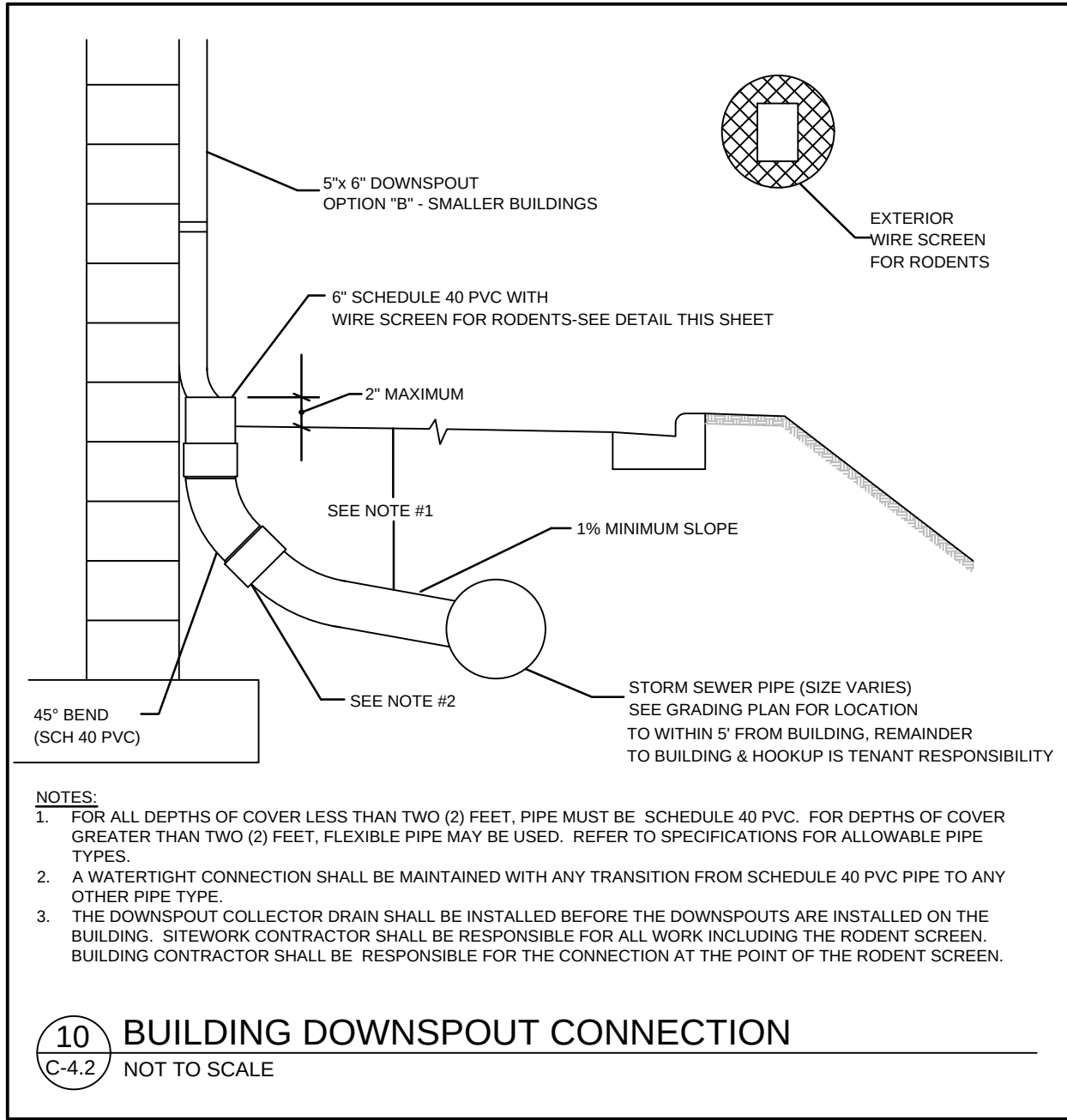
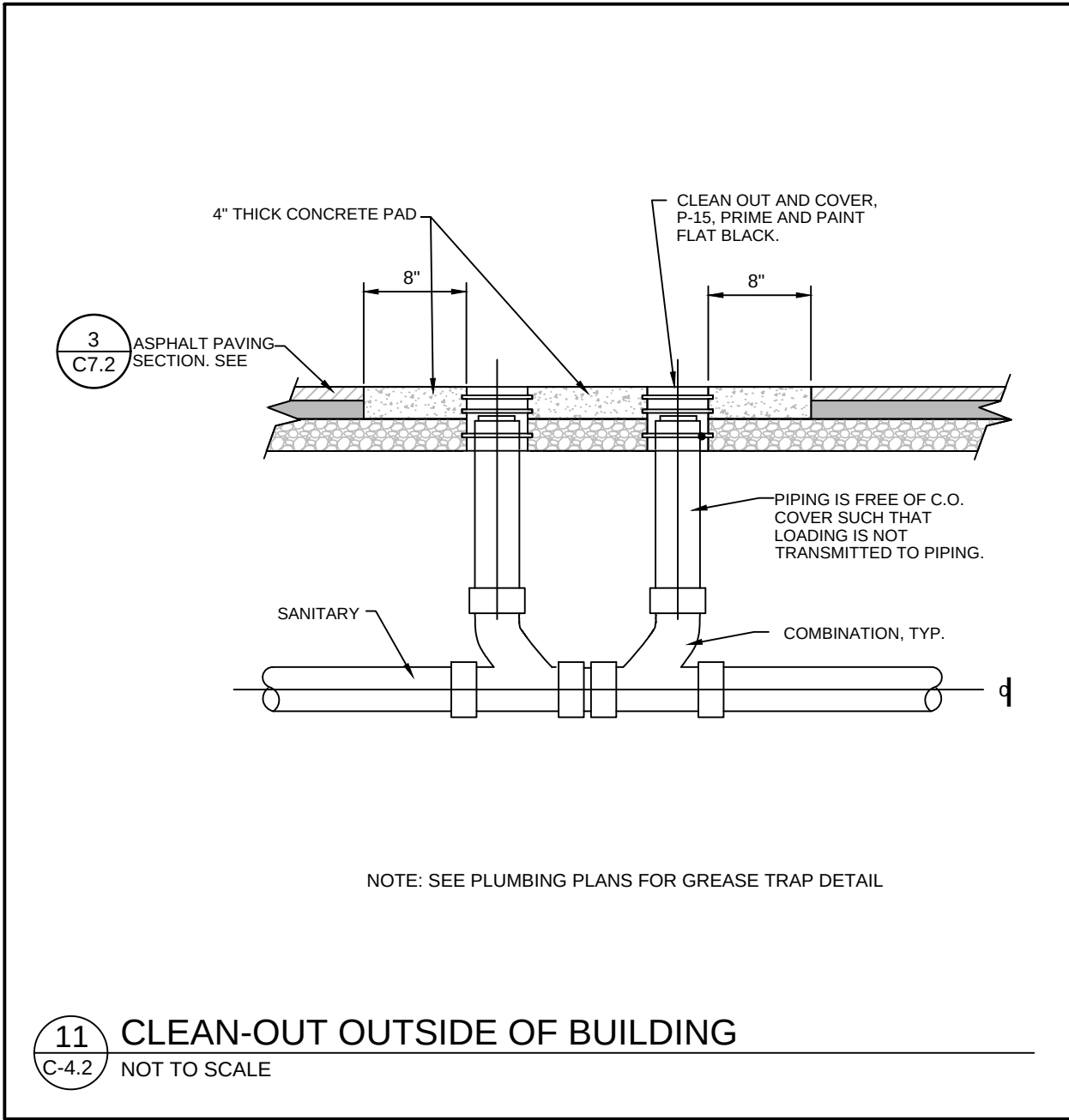
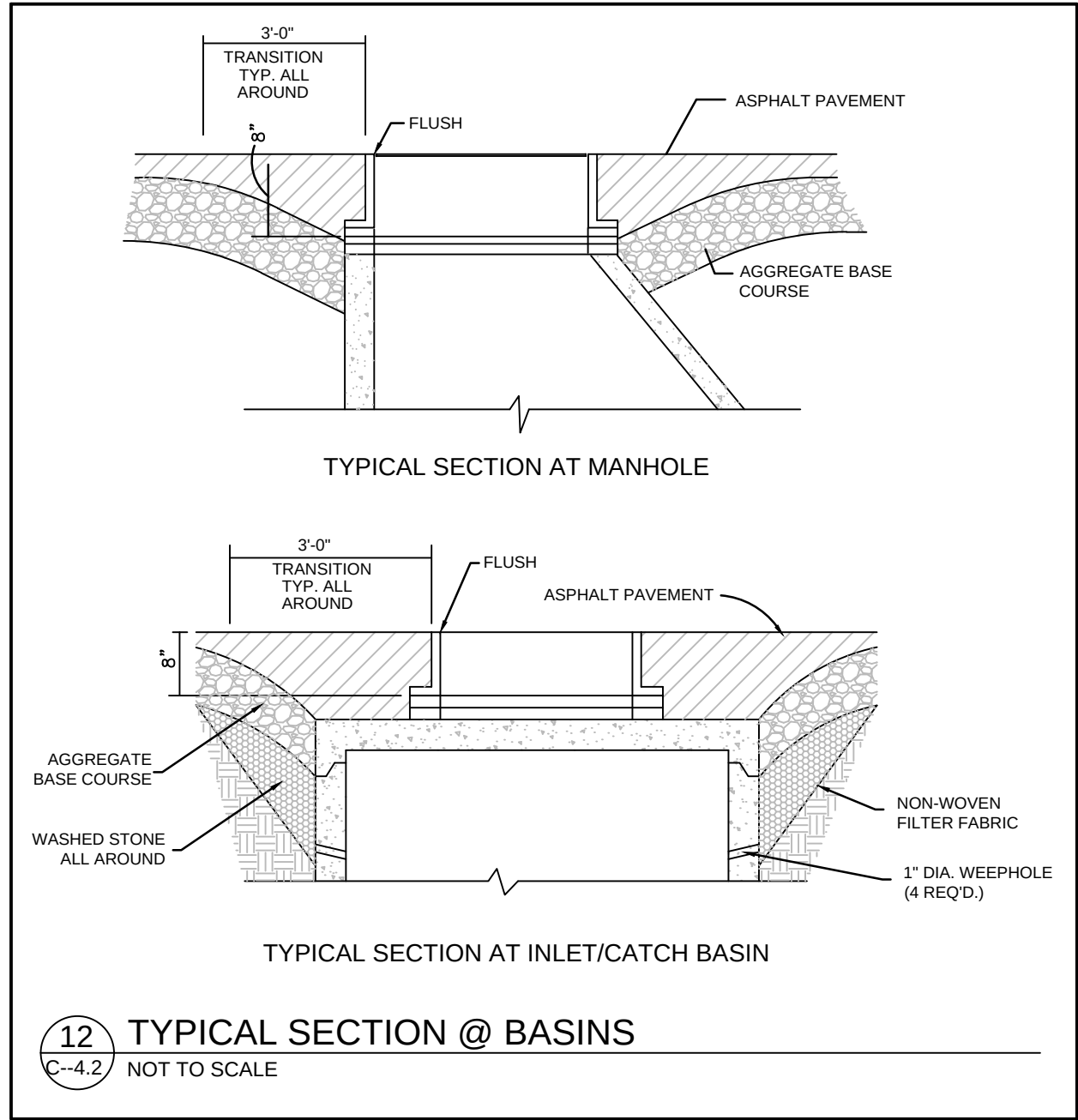
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CHICK-FIL-A STANDARD
DETAILS

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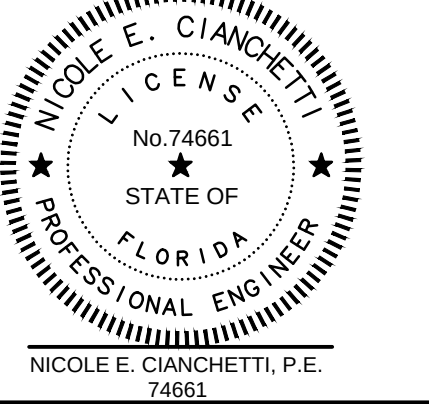
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33706

FSR#01740

BUILDING TYPE / SIZE: S03-SERIES
RELEASE: vX.YY.MM

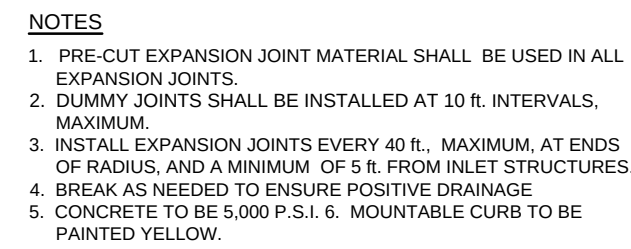
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DATE 8/11/2022		
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SHEET
CHICK-FIL-A STANDARD
DETAILS

SHEET NUMBER

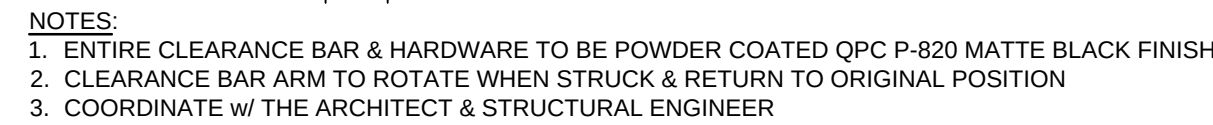
C-4.2



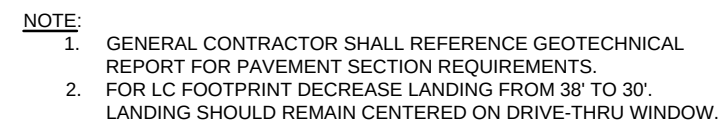
NOTES:

1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.
2. EXPANSION JOINT FILLER SHALL BE FLEXIBLE, LIGHTWEIGHT, NON-STAINING, POLYETHYLENE, CLOSED-CELL EXPANSION JOINT

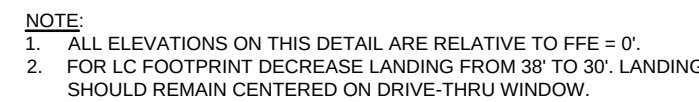
11 ROLLOVER / MOUNTABLE CURB
C-4.3 NOT TO SCALE



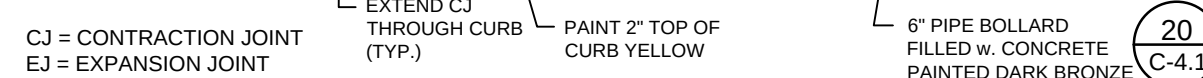
10 DRIVE-THRU CLEARANCE BAR
C-4.3 NOT TO SCALE



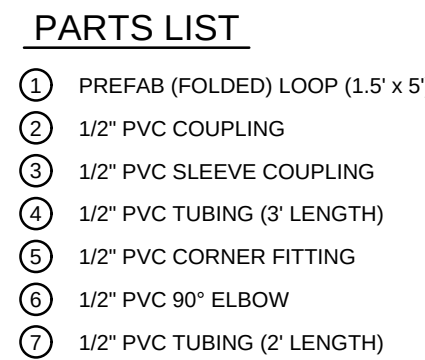
9 DRIVE-THRU ISOMETRIC
C-4.3 NOT TO SCALE



8 DRIVE-THRU PLAN - FLUSH WITH FFE
C-4.3 NOT TO SCALE



7 DRIVE-THRU ORDER POINT ISLAND
C-4.3 NOT TO SCALE



NOTES:

1. LOOP DETECTOR IS MODEL NO. VDL100 VEHICLE DETECTION LOOP MODULE BY ELECTRONICS, INC.
2. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

6 MENU BOARD LOOP DETECTION SYSTEM (ISO. VIEW)
C-4.3 NOT TO SCALE



NOTES:

1. LOOP DETECTOR IS MODEL NO. VDL100 VEHICLE DETECTION LOOP MANUFACTURED BY MH ELECTRONICS, INC.
2. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

5 MENU BOARD LOOP DETECTION SYSTEM
C-4.3 NOT TO SCALE



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C-4.3

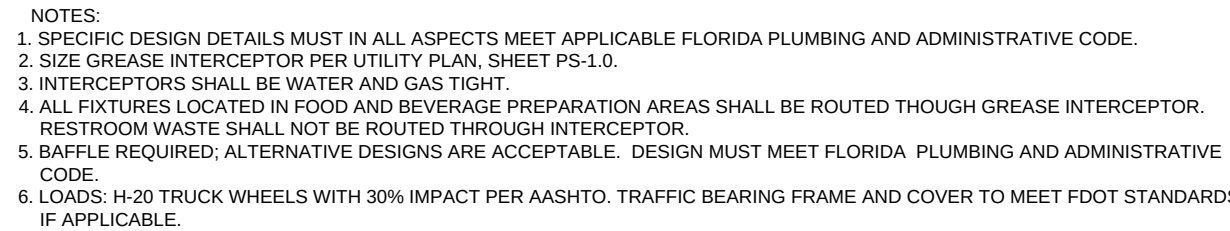
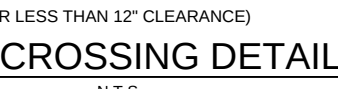


1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS II OR COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3, AND 4.

6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM 1586. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

PIPE DIA.	W
≤12"	O.D. OF PIPE + (12" TO 18")
>12"	> O.D. OF PIPE + 18"

GENERAL NOTES



- NOTES:
- 1. SPECIFIC DESIGN DETAILS MUST IN ALL ASPECTS MEET APPLICABLE FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
 - 2. SIZE GREASE INTERCEPTOR PER UTILITY PLAN, SHEET PS-1.0.
 - 3. INTERCEPTORS SHALL BE WATER AND GAS TIGHT.
 - 4. ALL FIXTURES LOCATED IN FOOD AND BEVERAGE PREPARATION AREAS SHALL BE ROUTED THROUGH GREASE INTERCEPTOR. RESTROOM WASTE SHALL NOT BE ROUTED THROUGH INTERCEPTOR.
 - 5. BAFFLE REQUIRED; ALTERNATIVE DESIGNS ARE ACCEPTABLE. DESIGN MUST MEET FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
 - 6. LOADS: H-20 TRUCK WHEELS WITH 30% IMPACT PER AASHTO. TRAFFIC BEARING FRAME AND COVER TO MEET FOOT STANDARD IF APPLICABLE.

GREASE INTERCEPTOR



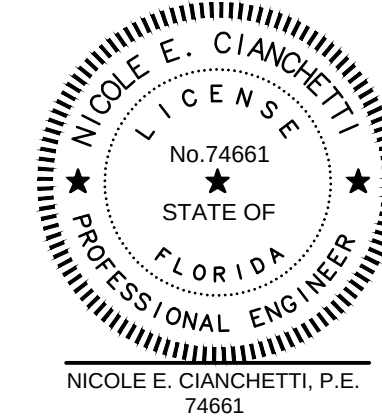
Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998



***A Full Service
A & E Firm***

Plans Prepared By:
CPH, Inc.

State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect. No. AA26000926
Landscape No. LC000298



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CHICK-FIL-A
St. Pete Beach
4623 Gulf Blvd.
St. Pete Beach, Florida
33706

FSR#01740

BUILDING TYPE / SIZE: S03-SERIES
RELEASE: vX.YY.MM

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT # C29146

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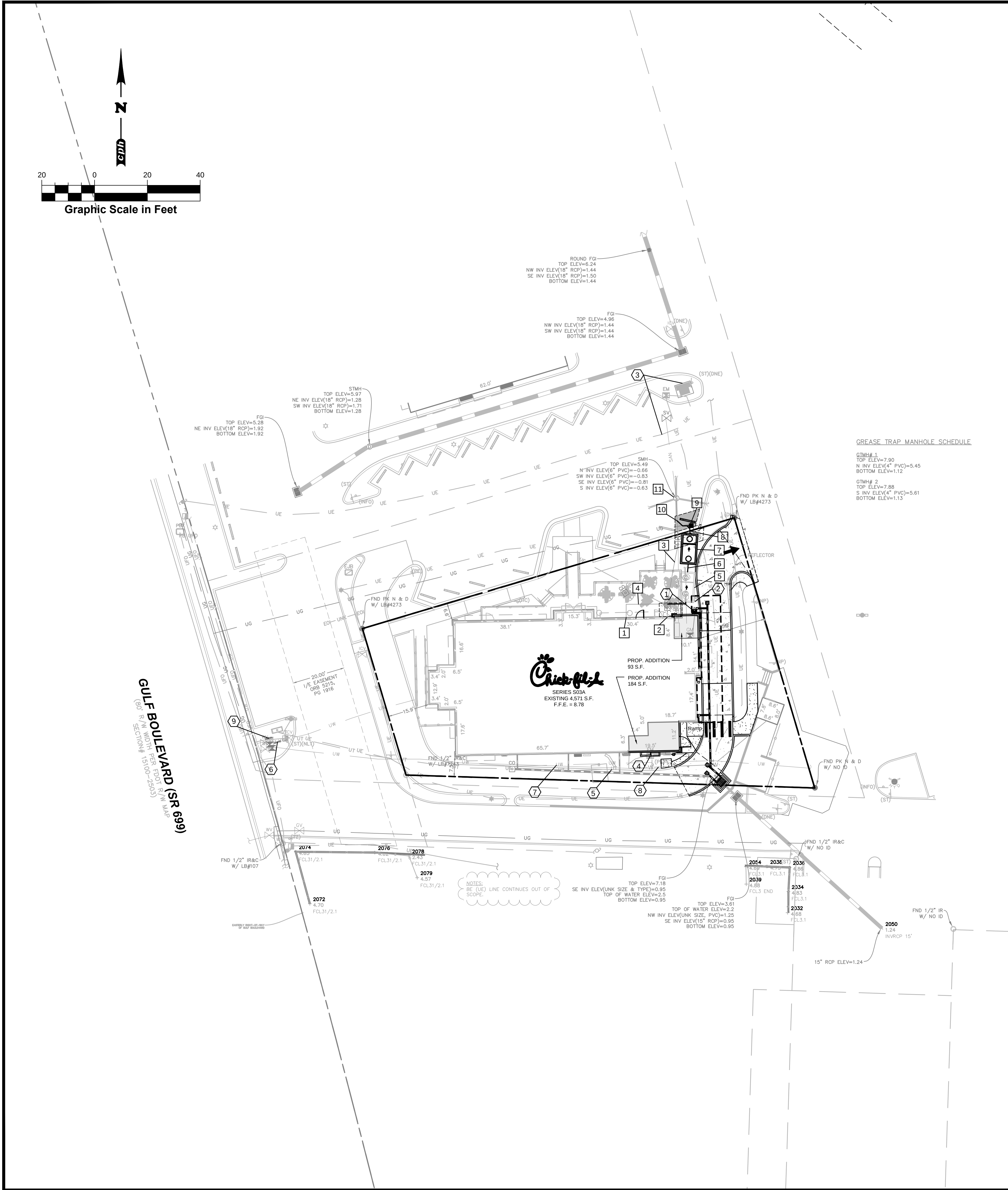
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CONSTRUCTION DETAILS

SHEET NUMBER

C-5.0



UTILITY KEY NOTES

- APPROX. EXISTING 4" GREASE SEWER CONNECTION POINT TO BUILDING. CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER LINE LOCATION PRIOR TO CONSTRUCTION. INV. 7.03± (FIELD VERIFY)
- APPROX. EXISTING 4" SEWER CONNECTION POINT TO BUILDING. CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER LINE LOCATION PRIOR TO CONSTRUCTION. INV. 7.03± (FIELD VERIFY)
- EXISTING 4" SEWER LINE SHALL REMAIN IN SERVICE. CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER LINE LOCATION & PIPE SLOPE PRIOR TO CONSTRUCTION. LOCATION SHOWN BASED ON ORIGINAL DESIGN PLANS AND LIMITED SURVEY INFORMATION.
- EXISTING 4" GREASE SEWER LINE SHALL REMAIN IN SERVICE. CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER LINE LOCATION & PIPE SLOPE PRIOR TO CONSTRUCTION. LOCATION SHOWN BASED ON ORIGINAL DESIGN PLANS AND LIMITED SURVEY INFORMATION.
- EXISTING GREASE TRAP LOCATION (1,000 GALLON ASSUMED). CONTRACTOR SHALL FIELD VERIFY SIZE & CONDITION PRIOR TO START OF CONSTRUCTION AND REPORT FINDINGS TO EOR. GREASE TRAP CONTENTS SHALL BE REMOVED IN ACCORDANCE WITH REGULATIONS, CLEANED & REPAIRED AS REQUIRED TO ENSURE PROPER WORKING CONDITION.
RIM ELEVATION: 7.90
EXISTING INFLOW INV. 5.61 (FIELD VERIFY)
EXISTING OUTFLOW INV. 5.45 (FIELD VERIFY)
- REMOVE EXISTING SEWER PIPE CONNECTION ON DOWNSTREAM SIDE OF GREASE TRAP AND INSTALL PROPOSED 3 L.F. - 4" P.V.C. @ 13.33% SLOPE.
- PROPOSED GREASE TRAP (1,250 GALLON MIN.), REFER TO DETAIL, SHEET C-5.0
RIM ELEVATION: 6.80
INFLOW INV. 5.05
OUTFLOW INV. 4.80
- PROPOSED 2 L.F. - 4" P.V.C. @ 2.00% SLOPE
- PROPOSED 4" WYE W/ CLEAN-OUT INV. 4.75
- CONNECT TO EXISTING 4" SEWER PIPE WITH PROPOSED WYE. CONTRACTOR SHALL FIELD VERIFY CONNECTION INVERT ELEVATION.
- EXISTING SEWER MANHOLE SHALL REMAIN IN SERVICE. RAISE MANHOLE TOP TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATION.
TOP ELEV. 5.75 (PROPOSED)
N INV. -0.66 (EXISTING)
S.W. INV. -0.83 (EXISTING)
S.E. INV. -0.81 (EXISTING)
S INV. -0.63 (EXISTING)

SANITARY SEWER LINE SCHEDULE

- PROPOSED GAS METER COORDINATOR CONTRACTION SCHEDULING & REQUIREMENT WITH GAS COMPANY.
- EXISTING GAS SERVICE TO BE RE-ROUTED TO NEW METER LOCATION.
- ELECTRIC TRANSFORMER & PRIMARY ELECTRIC SERVICE TO REMAIN, FIELD VERIFY.
- PROPOSED MDP PANEL. REFER TO ARCH./MEP PLANS FOR SPECIFICATIONS. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING SECONDARY ELECTRIC CONDUIT AND CONFIRM CAN BE EXTENDED TO PROPOSED MDP PANEL LOCATION OR COMPLETE REROUTE IS REQUIRED.
- EXISTING TELEPHONE / DATA SERVICE TO BUILDING TO REMAIN, FIELD VERIFY. CONTRACTOR TO COORDINATE CONNECTION WITH ARCH/MEP PLANS, & SERVICE PROVIDER.
- EXISTING DOMESTIC WATER METER & BACKFLOW PREVENTER SHALL REMAIN IN SERVICE, FIELD VERIFY.
- EXISTING 2" DOMESTIC WATER SERVICE TO BUILDING TO REMAIN, FIELD VERIFY.
- EXISTING 3/4" COLD WATER LINE TO REFUSE PAD TO REMAIN, FIELD VERIFY.
- EXISTING IRRIGATION WATER METER & BACKFLOW PREVENTER SHALL REMAIN IN SERVICE, FIELD VERIFY.

GREASE TRAP CALCULATIONS

NOTE: PER 2020 FLORIDA PLUMBING CODE: Paragraph 1003.3.7.

THE REQUIRED CAPACITY OF GRAVITY GREASE INTERCEPTORS AND GRAVITY GREASE INTERCEPTORS WITH FATS, OILS, AND GREASES DISPOSAL SYSTEMS SHALL BE DETERMINED BY MULTIPLYING THE PEAK DRAIN FLOW INTO THE INTERCEPTOR IN GALLONS PER MINUTE BY A RETENTION TIME OF 30 MINUTES.

THE VALUE OF RESTAURANT PEAK FLOW RATE IS 67 GPM.

WITH 67 GPM X 30 MINUTE RETENTION TIMEFRAME WOULD CALCULATE OUT AS A 2010 GALLON GREASE INTERCEPTOR CAPACITY.

ONE (1) PROPOSED 1250-GALLON GI & ONE (1) EXISTING 1000-GALLON IN SERIES ARE PROVIDED TO SATISFY THIS REQUIREMENT

GENERAL UTILITY NOTES

- SEE COVER SHEET FOR A LIST OF UTILITY COMPANIES.
- GENERAL CONTRACTOR IS TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON PLANS.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO NEW UTILITY LINES BEING INSTALLED.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER, LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICT AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR TIE-INS/ CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
- THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSSED AREAS SHALL BE 4" ABOVE FINISHED GRADE (UNLESS NOTED OTHERWISE).
- ALL MANHOLES CONSTRUCTED WITHIN PAVED AREAS SHALL BE INSTALLED WITH TRAFFIC BEARING RINGS AND COVERS.
- ALL CLEAN-OUTS WITHIN THE PAVEMENT AREA SHALL BE INSTALLED WITH TRAFFIC BEARING PARTS AS APPLICABLE.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
- ALL CONCRETE FOR ENCASEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.
- CONTRACTOR SHALL PROVIDE ALL APPURTENANCES SUCH AS CHECK VALVES, BACKFLOW PREVENTERS, ETC., AS REQUIRED BY GOVERNING AUTHORITIES.
- ALL WATER, FORCE MAIN AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 3' OF COVER. PE WATER SERVICE MAY BE REDUCED TO 2' WHEN NECESSARY.
- CONTRACTOR SHALL COORDINATE INSPECTION ON ALL UTILITIES, WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES DURING INSTALLATION.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND REQUIREMENTS.
- THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
- 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.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT BE LIMITED, FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR TO LOCATE LIGHT POLES AND FIXTURES AS INDICATED. CONTRACTOR TO BUILD NEW POLE BASE AND STUB CONDUIT AND WIRE AS NEEDED.
- CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING EXCAVATION.
- ALL WATER MAINS, FIRE WATER MAINS AND SERVICES SHALL BE TESTED, APPROVED AND DISINFECTED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS PRIOR TO CONNECTION TO MUNICIPAL SYSTEM.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS SIX (6) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER OVER SEWER LINE IS (12) INCHES.
- CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY PROVIDERS 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION.

UTILITY LEGEND

- | | |
|-------|--|
| — S — | PROPOSED SANITARY SEWER |
| — E — | PROPOSED ELECTRIC SERVICE |
| — T — | PROPOSED TELEPHONE SERVICE (FIBER OPTIC) |
| — T — | PROPOSED ELECTRIC TRANSFORMER/PAD |



Chick-fil-A

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

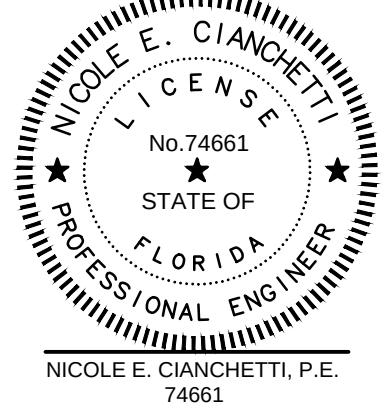


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Plans Prepared By:
CPH, Inc.

State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect. No. AA2600926
Landscape No. LC000298



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CHICK-FIL-A
St. Pete Beach
4623 Gulf Blvd.
St. Pete Beach, Florida
33706

FSR#01740

BUILDING TYPE / SIZE: S03-SERIES
RELEASE: vX.YY.MM

REVISION SCHEDULE

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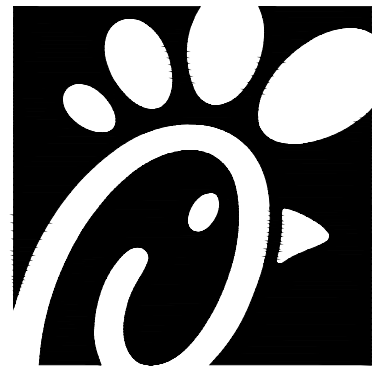
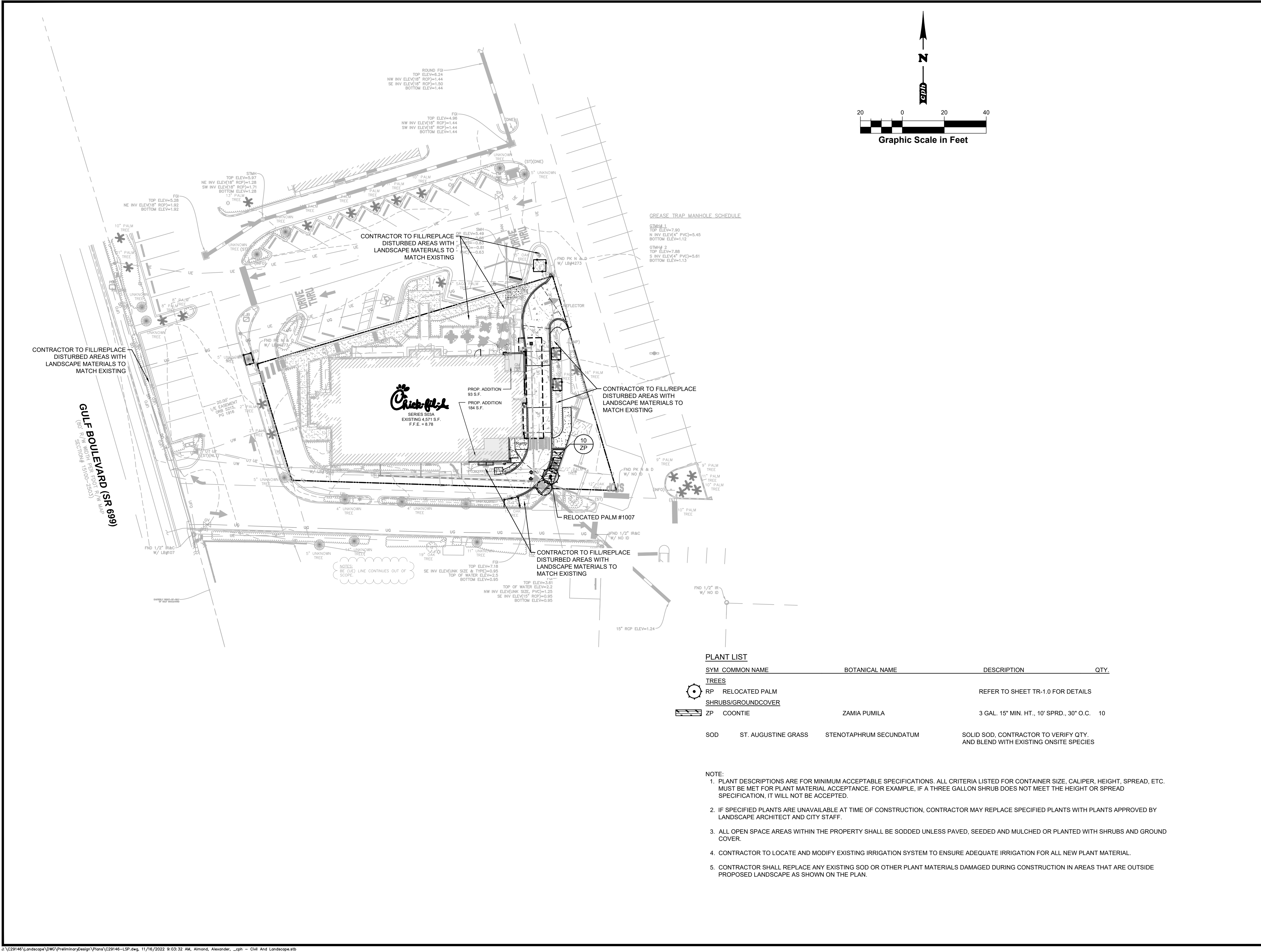
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SHEET UTILITY PLAN

SHEET NUMBER

PS-1.0





Chick-fil-A

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Architect No. AA26000926
Landscape No. LC000298

Nov 16, 2022

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CHICK-FIL-A
St. Pete Beach
4623 Gulf Blvd.
St. Pete Beach, Florida
323706

FSR#01740

BUILDING TYPE / SIZE: S04-16R2
RELEASE: vX.YY.MM

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SHEET
LANDSCAPE PLAN

SHEET NUMBER

L-1.0

LANDSCAPE NOTES:

- The Landscape Contractor shall be responsible for all materials and all work as called for on the Landscape Plans and in the Landscape Specifications. In the event of variation between quantities shown on plant list and the plans, the plans shall control. The Landscape Contractor shall verify all quantities and report any discrepancies at the time of bidding.
- The Landscape Contractor shall review architectural/engineering plans and become thoroughly familiar with surface and subsurface utilities.
- Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. Locations of existing buried utility lines shown on the plans are based upon best available information and are considered to be approximate. It shall be the responsibility of the contractor (1) to verify the locations of utility lines within and adjacent to the work area (2) to protect all utility lines during the construction period (3) to repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the construction (4) To field adjust the location of proposed trees and palms 10' off the center of the utility lines. Notify the Landscape Architect if a 10' offset does not function.
- The work shall be coordinated with other trades to prevent conflicts. Coordinate the planting with the irrigation work to ensure availability and proper location of irrigation lines and plants.
- Contractor shall ensure that there are no visual obstructions to vehicle lines of sight and traffic controls. Contractor shall field adjust tree and/or large shrub locations to avoid any such obstructions.
- Trees shall be maintained by the owner to avoid future such obstructions by pruning trees and/or shrubs as necessary utilizing horticulturally sound techniques.
- All planting shall be performed by personnel familiar with planting procedure and under the supervision of a qualified planting foreman.
- All plant material shall be graded Florida No. 1 or better as outlined under Grades and Standards for Nursery Stock, Part I and II, published by the Florida Department of Agriculture and Consumer Services.
- The minimum acceptable size of all plants, measured after pruning with branches in normal positions, shall conform to the measurements specified on the plant list or as indicated on the landscape drawing. Height and spread dimensions refer to main body of the plant and not extreme branch tip to tip. Trunk caliper (trunk diameter) is measured 6 inches from the ground on trees up to and including 12 inches in caliper, and 12 inches from the ground for larger trees. Since trunks are seldom round, the average of the largest diameter and that perpendicular to it is referred to as caliper. When the plant list description calls out DBH or caliper at DBH, it shall govern over the caliper definition in this note.
- The Landscape Architect or Owner shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications.
- Except as otherwise specified, the Landscape Contractor's work shall conform to accepted horticultural practices as used in the trade.
- Plants shall be protected upon arrival at the site, by being thoroughly watered and properly maintained until planted.
- TOPSOIL

Topsoil shall be natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity that produces heavy growth. Topsoil shall have a pH range of 5.5 to 7.4, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones larger than 1-inch in diameter, stumps, roots, trash, toxic substances, or any other material which may be harmful to plant growth or hinder planting operations. Top soil shall contain a minimum of three percent organic material. 6" Top Soil shall be placed in all turf & landscape areas.

All tree pits shall be excavated to size and depth in accordance with the Florida Grades & Standards for Nursery Stock, unless shown otherwise on the drawings, and backfilled with the specified planting soil. The Landscape Contractor shall test fill all tree pits with water before planting to assure proper drainage percolation is available.

The Landscape Contractor shall be responsible for proper watering of all plants. All plants shall be thoroughly watered at time of planting and kept adequately watered for plants to thrive as defined by Florida Grades and Standards for Nursery stock until time of acceptance. It shall be the Landscape Contractor's responsibility to assure that plants are not over watered.

It shall be the Landscape Contractor's responsibility to prevent plants from falling or being blown over, to re-straighten and replant all plants which lean or fall and to replace all plants which are damaged due to lack of proper guying or staking. The Landscape Contractor shall be legally liable for any damage caused by instability of any plant material.

All Palms to be staked as indicated per Palm staking details. All other trees to be stabilized utilizing 8' lodge poles per tree planting details.

Plants blown over by high winds, within the guaranteed period, shall not be cause for additional expense to the Owner, but shall be the responsibility of the Landscape Contractor. Damaged plants shall be replaced by the Landscape Contractor at no additional cost to the Owner.

Sod shall be of a species specified on the drawings and originate from a commercial turf grower, whose farm is free of muck soils. Muck grown sod will not be approved. It shall be a dense stand of live turf, reasonably free of weeds, well matted with grass roots in rectangles 12 inch by 24 inch or in 12 inch wide rolls in a length consistent with the equipment and methods used to handle the rolls and place the sod. Any netting contained within the sod shall be certified by the manufacturer to be 100-degradable. The soil and root mat shall be a minimum of 1-1/2 inch thick and must hold together during placement. Sod shall be placed adjacent to one another to avoid gaps and overlaps. Joints shall be staggered between the rows. Sod placed on slopes exceeding 3:1 shall be pinned with turf staples. Sod turf, shall have been mowed a minimum of one week prior to cutting and delivery, so that the length of the turf is no longer than 4 inches at time of delivery. Place sod within 48 hours of cutting the sod. The sod shall be kept moist throughout the 48 hour period to maintain the health and viability of the sod. Submit a letter of certification to the Owner's CEI Representative, at time of delivery, as to the source of the sod, the time it was cut, the species and cultivars provided, last mowing date, and that the sod is free of fire ants. Sod which has been cut for longer than 48 hours after being cut shall not be used unless specifically authorized by Owner's CEI Representative.

It shall be the Contractor's responsibility to measure and determine the exact quantity of sod required for a complete job at the time of bidding or providing a price quote. The Owner shall not be responsible for additional cost due to the Contractor's under estimating of the quantity of sod for the original bid area.

The Landscape Contractor shall insure adequate vertical drainage in all plant beds, planters, and sod areas. Vertical drilling through any compacted fill to native soil shall be accomplished to insure drainage. If well drained fill is necessary to assure positive drainage, this issue shall be brought up by the Landscape Contractor at time of bidding.

UNSUITABLE SUBSOILS

Locations containing unsuitable subsoil shall be treated by one or more of the following:

- Where unsuitability is deemed by Owner or Owner's Representative to be due to excessive compaction caused by heavy equipment and where natural subsoil is other than AASHTO classification of A6 or A7, loosen such areas with spikes, discing, or other means to loosen soil to condition acceptable to Owner. Loosen soil to minimum depth of 12 inches with additional loosening as required to obtain adequate drainage. Contractor may introduce peat moss, sand, or organic matter into the subsoil to obtain adequate measures shall be considered as incidental, without additional cost to Owner.
- Where unsuitability is deemed by Owner or Owner's Representative to be due to presence of boards, mortar, concrete, graded aggregate base, or other construction materials in sub grade and where natural subsoil is other than AASHTO classification of A6 or A7, remove debris and objectionable material. Such remedial measures shall be considered as incidental, without additional cost to Owner.
- Where unsuitability is deemed by Owner to be because natural subsoil falls into AASHTO classification of A6 or A7 and contains moisture in excess of 30 percent, then installation of sub drainage system or other means described elsewhere in Specifications shall be used. Where such conditions have not been known or revealed prior to planting time and they have not been recognized in preparation of The Drawings and Specifications, then Owner shall issue pricing order to install proper remedial measures.
- Planting beds where existing subsoil is determined by Owner to be unsuitable for plant growth in accordance paragraph Unsuitable Subsoil herein shall be excavated to a depth of 12 inches or as needed to provide adequate drainage. Replace excavated soil with planting soil.

The Landscape Contractor shall ensure that his work does not interrupt established or projected drainage patterns.

The Landscape Contractor shall prune, shape and remove dead foliage/limbs from existing plant material to remain. Confirm with the Landscape Architect or Owner the extent of work required at time of Bidding.

Mulch - All plant beds shall be top dressed with 3" shredded hardwood mulch (or approved equal). Cypress mulch not permitted. A 5' diameter mulch ring is to be placed around trees located in sod areas or outside of planting beds.

Transplanted Material - The Landscape Contractor shall be responsible for determining and evaluating which plant materials are suitable for transplanting and shall verify this with the Landscape Architect or Owner. The Landscape Contractor shall take all reasonable, horticulturally acceptable measures to assure the successful transplanting of determined plant materials. The Landscape Contractor shall be responsible for replacing any relocated plant materials which die if such measures are not taken, as determined by the Landscape Architect or Owner. Replacement plants shall be of identical species and size if required.

MAINTENANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE:

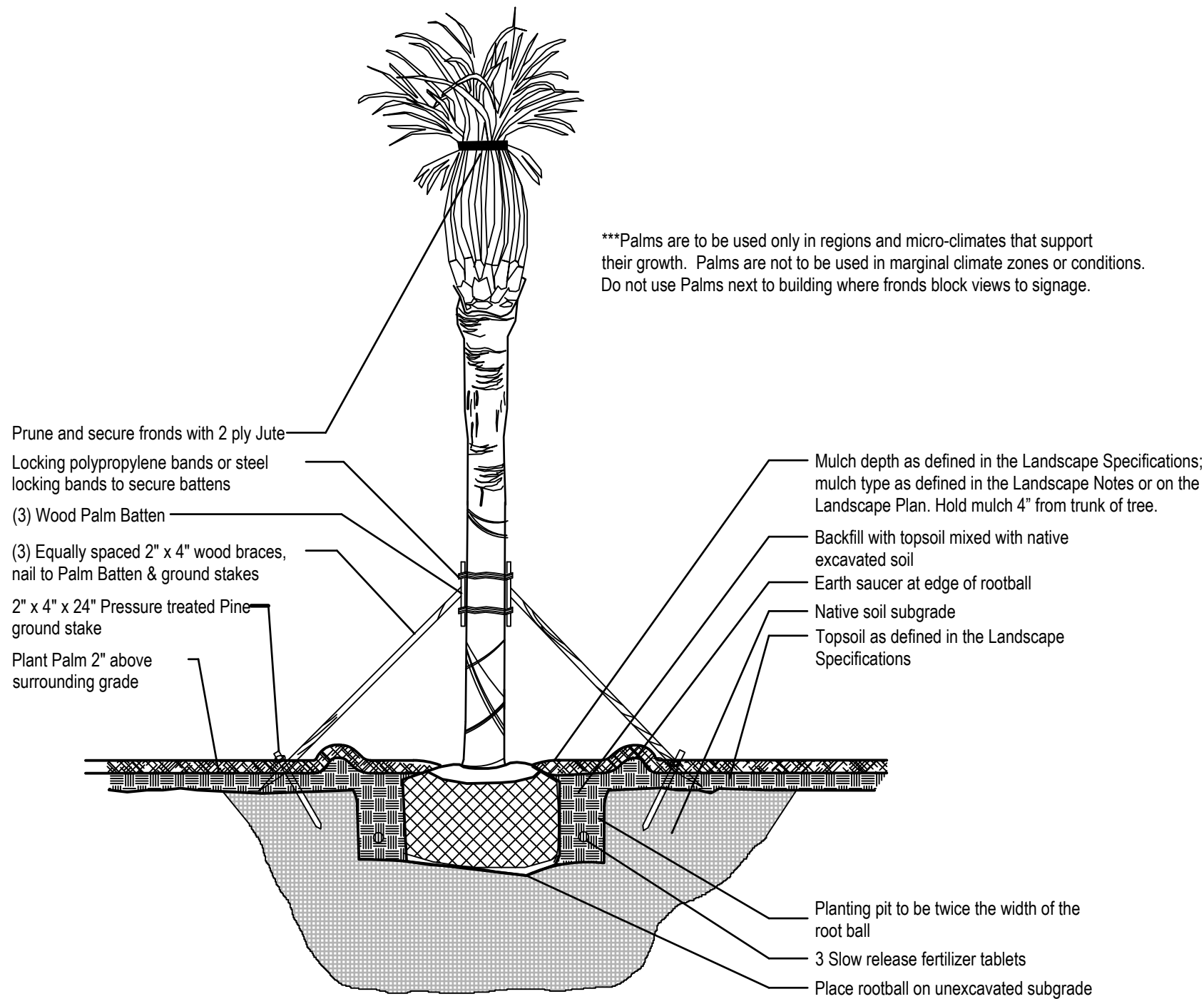
- Maintenance shall commence after each plant is planted and the maintenance period shall continue until the job or specific phase of the job is accepted by the Landscape Architect or Owner. Extreme care shall be taken to instruct the Owner or his representatives in general maintenance procedures.
- Plant maintenance shall include watering, pruning, weeding, cultivating, mulching, tightening, and repairing of guys, replacement of sick or dead plants, resetting plants to proper grades or upright positions and restoration of the planting saucer and all other care needed for proper growth of the plants.
- During the maintenance period and up to the date of final acceptance, the Landscape Contractor shall do all seasonal spraying and/or dusting of trees and shrubs. Upon completion of all planting, an inspection for acceptance of work will be held. The Landscape Contractor shall notify the Landscape Architect or Owner for scheduling of the inspection 10 days prior to the anticipated date.
- At the time of the inspection, if all of the materials are acceptable, a written notice will be given by the Landscape Architect or Owner to the Landscape Contractor Stating the date when the Maintenance Period ends.

GUARANTEE AND REPLACEMENT:

- All plant materials shall be guaranteed for one (1) year from the time of final inspection and interim acceptance shall be alive and in satisfactory growth for each specific kind of plant at the end of the guaranteed period.
- At the end of the guarantee period, any plant required under this contract that is dead or not in satisfactory growth, as determined by the Owner or the Landscape Architect, shall be removed and replaced. Replacement plants shall have an extended guarantee, as noted above, from time of replacement.
- All replacements shall be planted of the same kind and size as specified on the plant list. They shall be the responsibility of the Landscape Contractor.

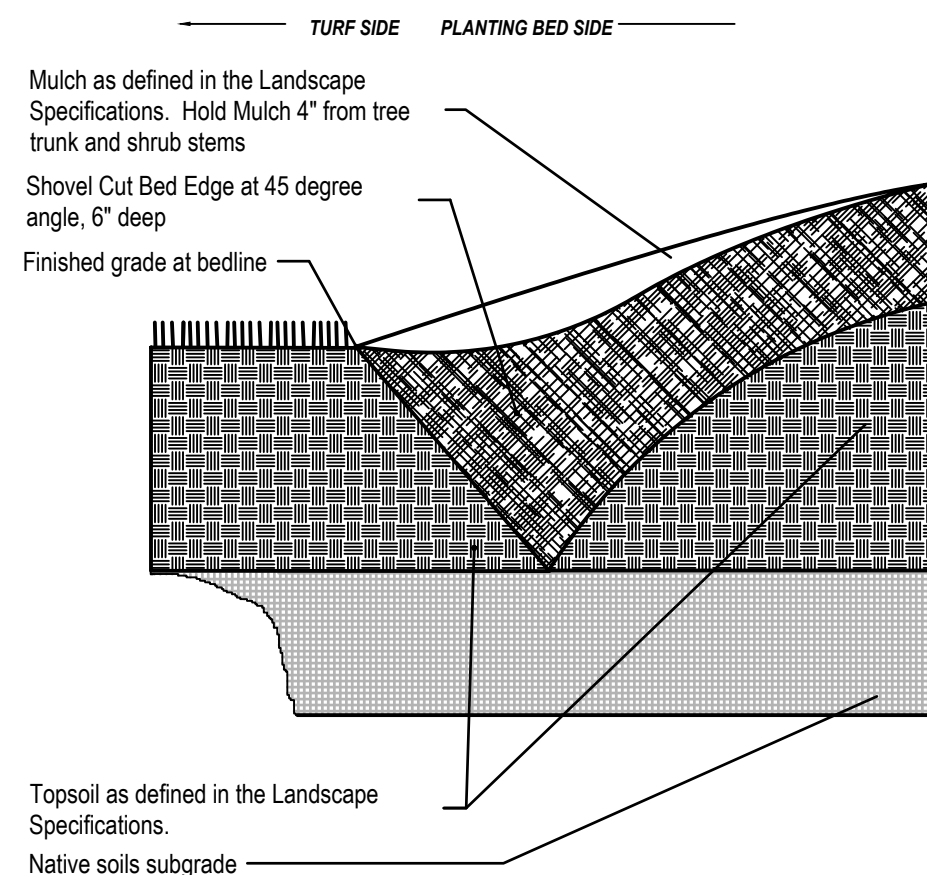
CHICK-FIL-A LANDSCAPE NOTES

- Landscape Contractor to read and understand the Landscape Specifications (sheet L-5.2) prior to finalizing bids. The Landscape Specifications shall be adhered to throughout the construction process.
- Contractor is responsible for locating and protecting all underground utilities prior to digging.
- Contractor is responsible for protecting existing trees from damage during construction.
- All tree protection devices to be installed prior to the start of land disturbance, and maintained until final landscaping.
- All tree protection areas to be protected from sedimentation.
- All tree protection fencing to be inspected daily, and repaired or replaced as needed.
- No parking, storage or other construction activities are to occur within tree protection areas.
- All planting areas shall be cleaned of construction debris (ie. concrete, rock, rubble, building materials, etc) prior to adding and spreading of the topsoil.
- General Contractor is responsible for adding a min of 4" clean friable topsoil in all planting beds and all graded areas. Graded areas to be held down the appropriate elevation to account for topsoil depth. See Landscape Specifications for required topsoil characteristics.
- 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" berm height above island curbing; refer to landscape specifications and landscape island detail.
- 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.
- Any deviations from the approved set of plans are to be approved by the Landscape Architect.
- All plant material shall be graded Florida No. 1 or better as outlined under Grades and Standards for Nursery stock Part 1 and 2, published by the Florida Department of Agriculture and Consumer Services.
- 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.
- Soil to be tested to determine fertilizer and lime requirements prior to laying sod.
- 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.
- All shrubs beds (existing and new) to be mulched with a min. 3 inch layer of mulch (double shredded hardwood mulch) [mulch type per region to be specified here].
- 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.
- 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.
- Any existing grass disturbed during construction to be fully removed, regraded and replaced. All tire marks and indentions to be repaired.
- Water thoroughly twice in first 24 hours and apply mulch immediately.
- 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.
- 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.
- 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.
- Stake all evergreen and deciduous trees as shown in the planting detail and as per the Landscape Specifications.
- Remove stakes and guying from all trees after one year from planting.



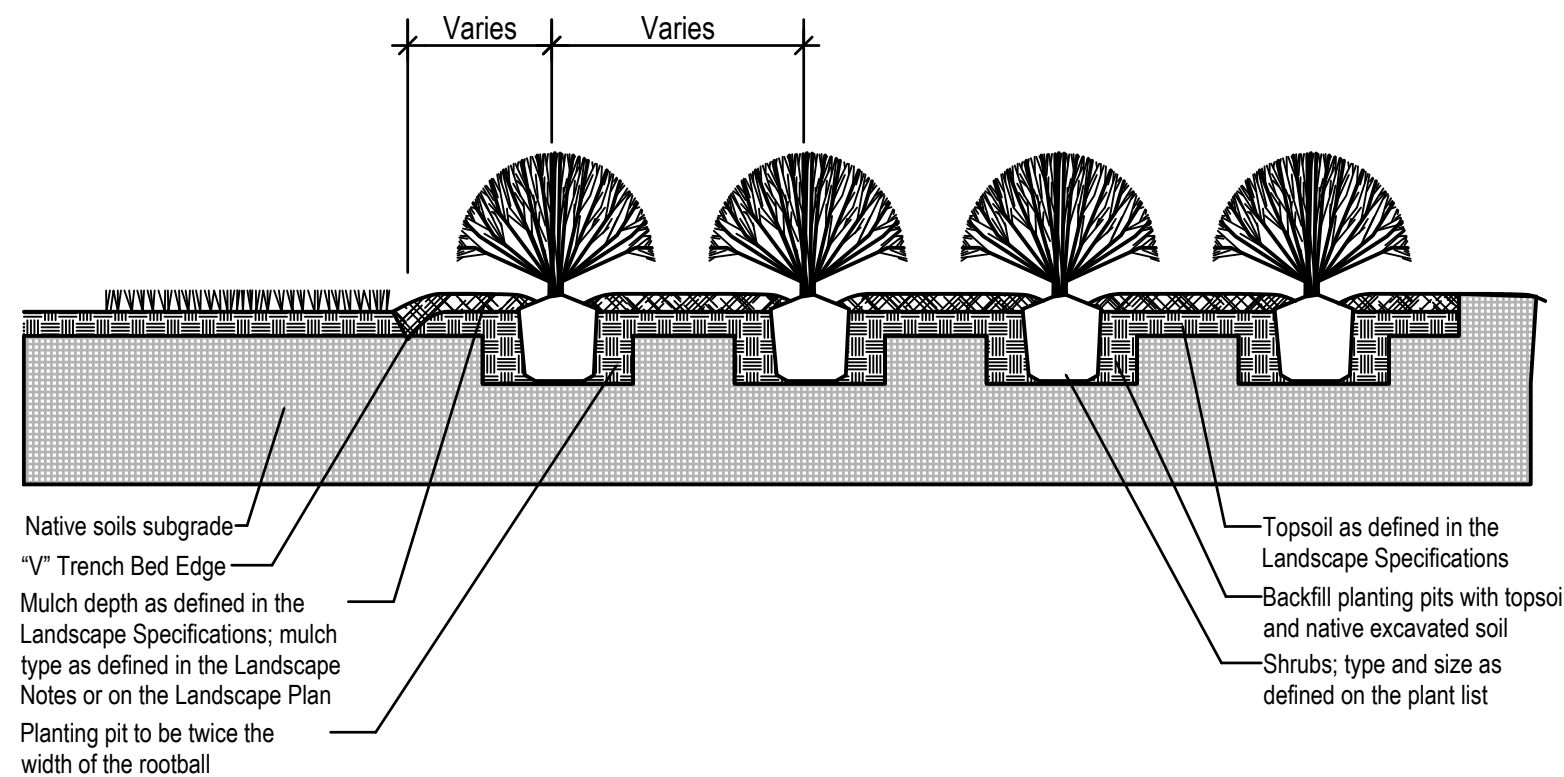
PALM STAKING DETAIL

SCALE: NTS



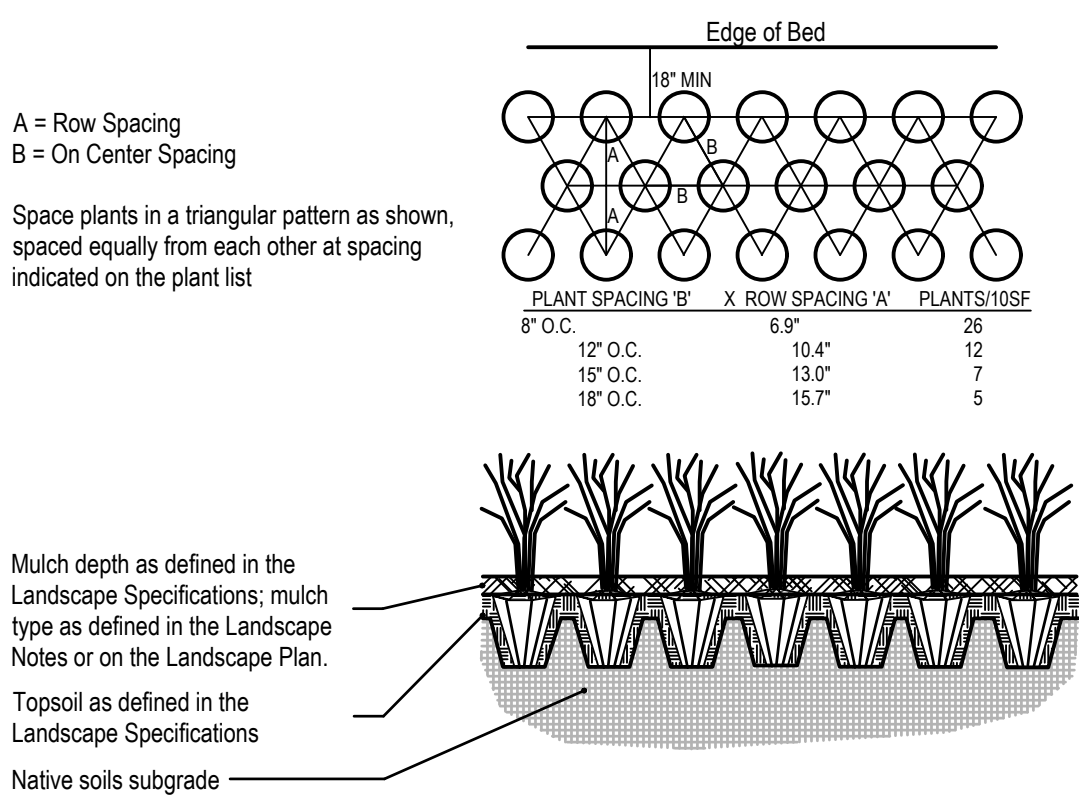
"V" TRENCHED BED DETAIL

SCALE: NTS



SHRUB BED PLANTING DETAIL

SCALE: NTS

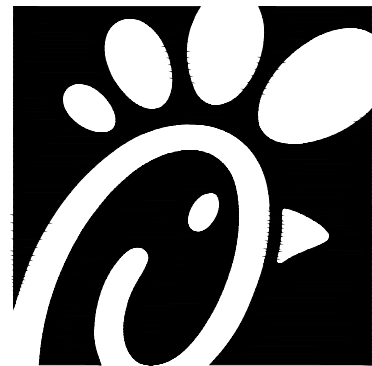


NOTE

- Space groundcover plants in accordance with indicated spacing listed on the plant list, or as shown on the landscape plan.
- 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.

GROUNDCOVER PLANTING DETAIL

SCALE: NTS



Chick-fil-A

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



**A Full Service
A & E Firm**

Plans Prepared By:
CPH, Inc.
State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect. No. AA26000926
Landscape No. LC000298

Nov 16, 2022.

This item has been digitally signed and sealed by Danita R. Bryant on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHICK-FIL-A
St. Pete Beach
4623 Gulf Blvd.
St. Pete Beach, Florida
323706

FSR#01740

BUILDING TYPE / SIZE: S04-16R2
RELEASE: vX-YY.MM

REVISION SCHEDULE

NO. DATE DESCRIPTION

1
2
3

CONSULTANT PROJECT # C29146

PRINTED FOR Permit

DATE 1/31/2022

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SHEET
**LANDSCAPE NOTES AND
DETAILS**

SHEET NUMBER

L-5.0

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.S oil preparation.
- 2.T rees, shrubs, ground covers, and annuals/perennials.
- 3.P lanting mixes.
- 4.T op Soil, Mulch and Planting accessories.
- 5.M aintenance.
- 6.D ecorative stone.

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 stizing and grading standards of the latest edition of "Florida Grades and Standards". 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 of 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.P lanted 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.B alled 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.C ontainer- 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.N o plants shall be loose in the container.

b.C ontainer stock shall not be pot bound.

3.P lants planted in rows shall be matched in form.

4.P lants larger than those specified in the plant list may be used when acceptable to the Landscape Architect.

a.I f the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.

5.T he 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.N o pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.

7.E vergreen trees shall be branched to the ground or as specified in plant list.

8.S hrubs and small plants shall meet the requirements for spread and height indicated in the plant list.

a.T he 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.S ingle stemmed or thin plants will not be accepted.

c.S ide branches shall be generous, well-twigged, and the plant as a whole well-bushied to the ground.

d.P lants 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.S od Areas: Spread a minimum 4" layer of top soil and rake smooth.

2.P lanting bed areas: Spread a minimum 4" layer of top soil and rake smooth.

3. Landscape Islands/Medians: 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 berm 6"-8" height above island curbing.

4. Annual/Perennial bed areas: Add a minimum of 4" organic matter and fill to a minimum 12" depth.

Mulch: Type selected dependent on region and availability; see landscape plans for type of mulch to be used. Hold mulch 4" from tree trunks and shrub stems.

1. Hardwood: 6 month old well rotted double shredded natural hardwood bark mulch not larger than 4" in length and 1/2" in width, free of wood chips and sawdust. Install minimum depth of 3".

2. Pine Straw: Pine straw to be fresh harvest, free of debris, bright in color. Bales to be wired and tightly bound. Needles to be free. Install minimum depth of 3".

3. River Rock: (color) light gray to buff to dark brown, washed river rock, 1" - 3" in size. 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 and avoid injuring the plants. Gently brush the mulch off the plants.

Guying/Staking:

1. Arborite: Green (or white) staking and guying material to be flat, woven, polypropylene material, 1/2" wide 900 lb. break strength. Arborite 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 Drap 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 General 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.

Mulching:

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:

1. 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 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 spring.

1. Tree wraps are temporary and no longer needed once the trees develop corky bark.

3. 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 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 guy wire.

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

Pruning:

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

WORKMANSHIP

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

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 by the owner to use on-site trash receptacles. Sweep parking and walks clean of dirt and debris. Remove all plant tags and other debris from lawns and planting areas.

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

Maintenance shall include mowing, fertilizing, mulching, pruning, cultivation, weeding, watering, and application of appropriate insecticides and fungicides necessary to maintain plants and lawns free of insects and disease.

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

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 weather and season permit.

4. Water trees, plants and ground cover beds within the first 24 hours of initial planting, and not less than twice per week until final acceptance.

LANDSCAPE MAINTENANCE SPECIFICATIONS

The Contractor shall provide as a separate bid, maintenance for a period of **1 year** 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 contractor who can provide maintenance.

STANDARDS

All landscape maintenance services shall be performed by trained personnel using current, acceptable horticultural practices.

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 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 (P2O5)	150+lbs./acre	150+lbs./acre
Potassium (K2O)	120+lbs./acre	120+lbs./acre
Soluble salts/ Conductivity	Not to exceed 900ppm/1.9 mmhos/cm in soil; not to exceed 1400 ppm/2.5 mmhos/cm in high organic mix	Not to exceed 750ppm/0.75 mmhos/cm in soil; not to exceed 2000 ppm/2.0 mmhos/cm in high organic mix

For unusual soil conditions, the following optional tests are recommended with levels not to exceed:

Boron	3 pounds per acre
Manganese	50 pounds per acre
Potassium (K2O)	450 pounds per acre
Sodium	20 pounds 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 owner.

TURF

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 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 flower 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 or 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, arbutovite, 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.

9. Thinning: Remove branches and water sprouts by cutting them back to their point of origin on parent stems. This method results in a more open plant, without stimulating excessive growth. Thinning is used on crepe myrtles, lilacs, viburnums, smoke bush, etc.

10. Renewal pruning: Remove oldest branches of shrub at ground, leaving the younger, more vigorous branches. Also remove weak stems. On overgrown plants, this method may be best done over a three-year period. Renewal pruning may be used on abelia, forsythia, deutzia, spiraea, etc.

Plants overhanging passageways and parking areas and damaged plants shall be pruned as needed.

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

SPRING CLEANUP

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

FERTILIZING

For trees, the rate of fertilization depends on the tree species, tree vigor, area available for fertilization, and growth stage of the tree. Mature specimens benefit from fertilization every 3 to 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 the tree to be fertilized. For deciduous trees, 2 to 6 pounds of Nitrogen per 1000 square feet; for narrow-leaf evergreens, 1 to 4 pounds of Nitrogen per 1000 square feet; for broadleaf evergreens, 1 to 3 pounds of Nitrogen per 1000 square feet.

Shrubs and groundcover shall be top-dressed with compost 1" deep, or fertilized once in March 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 manufacturer's 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 depth of 3" with quality mulch to match existing. Bed preparation shall include removing all weeds, cleaning up said bed, edging and cultivating decayed mulch into the soil. Debris from edging is to be removed from beds where applicable. If deemed necessary, a pre-emergent herbicide may be applied to the soil to inhibit the growth of future weeds.

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

WEEDING

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

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

INSECT & DISEASE CONTROL: TREES, SHRUBS & GROUNDCOVER

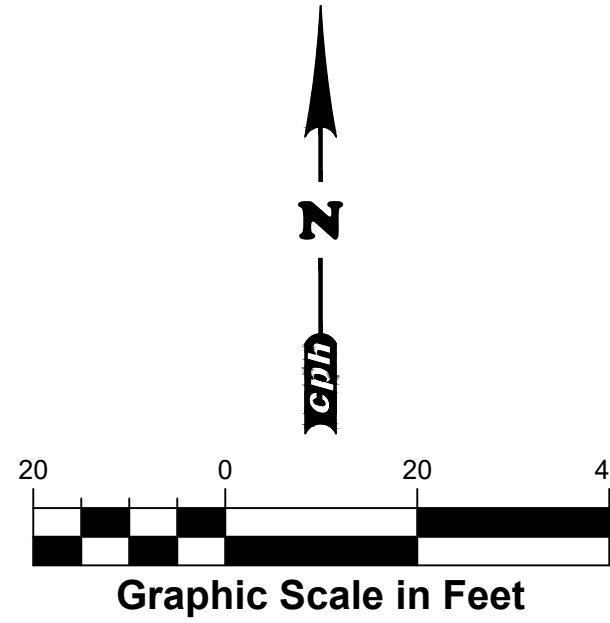
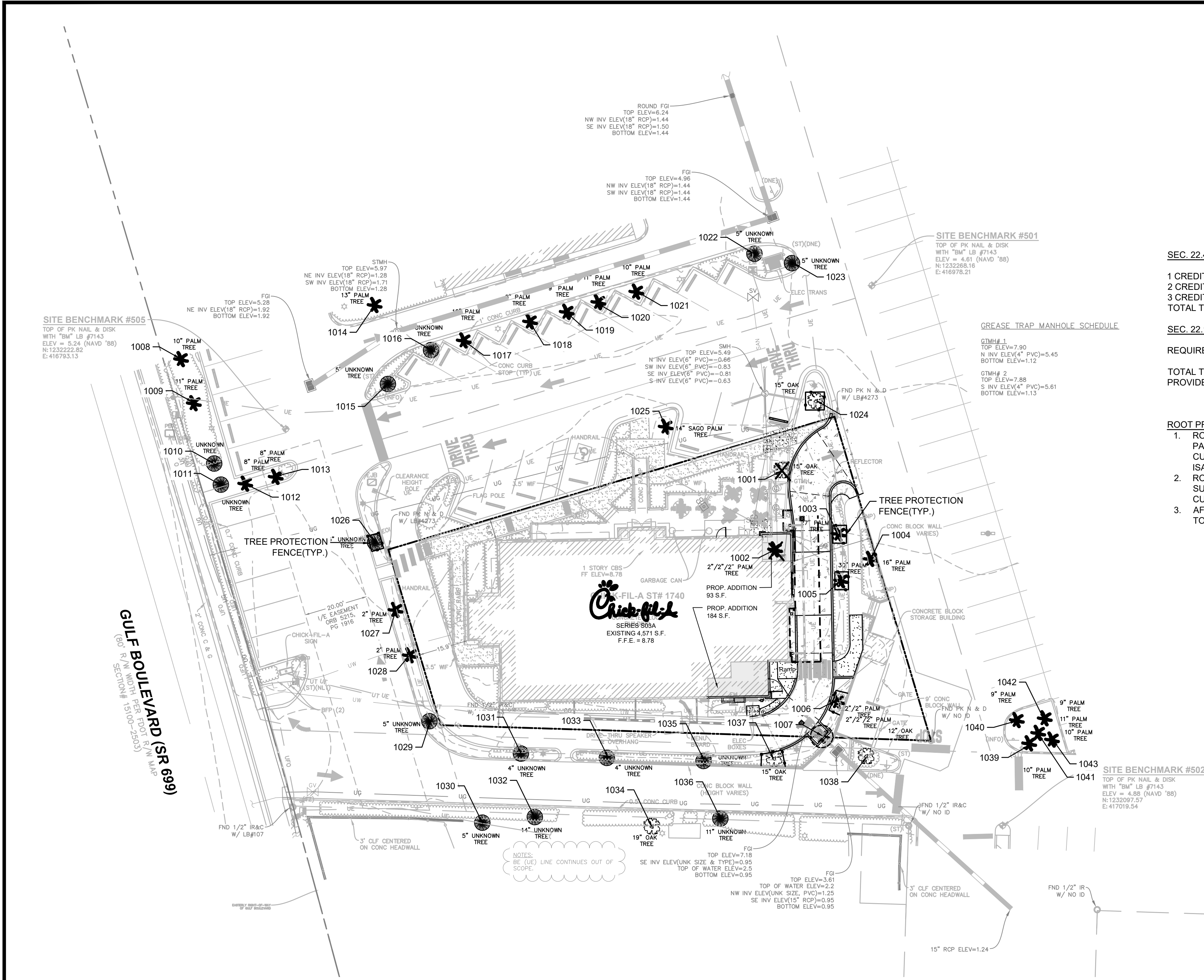
The maintenance contractor shall be responsible for monitoring the landscape site on a regular basis. The monitoring frequency shall be monthly except for growing season, which will be every other week. Trained personnel shall monitor for plant damaging insect activity, plant pathogenic diseases and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

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

Plant pathogenic disease problems identified by the contractor that can be resolved by pruning or physical removal of damaged plant parts will be performed as part of the contract. For an additional charge, plant pathogenic diseases that can be resolved through properly timed 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 landscape, he/she will suggest replacement with a more pest-resistant cultivar or species that is consistent with the intent of the landscape design.

NOTE: For identification of plant-damaging insects and mites, a reference textbook that can be used is *Insects that Feed on Trees and Shrubs* by Johnson and Lyon, Comstock Publishing Associates. For plant pathogenic diseases, two references are suggested: *Scouting and Controlling Woody Ornamental Diseases in Landscapes and Nurseries*, authorized by Gary Moorman, published by Penn State College of Agricultural Sciences, and *Diseases of Trees and Shrubs* by Sindlar and Lyon, published by Comstock Publishing Press.



SEC. 22.4(d)(1) EXISTING TREE CREDIT

1 CREDIT PER 4" - 10" TREE x 2 EXISTING TREES = 2 CREDIT
2 CREDITS PER 10" - 20" TREE x 1 EXISTING TREES = 2 CREDITS
3 CREDITS PER 20" OR GREATER x 2 EXISTING TREES = 6 CREDITS
TOTAL TREE CREDITS = 10 CREDITS

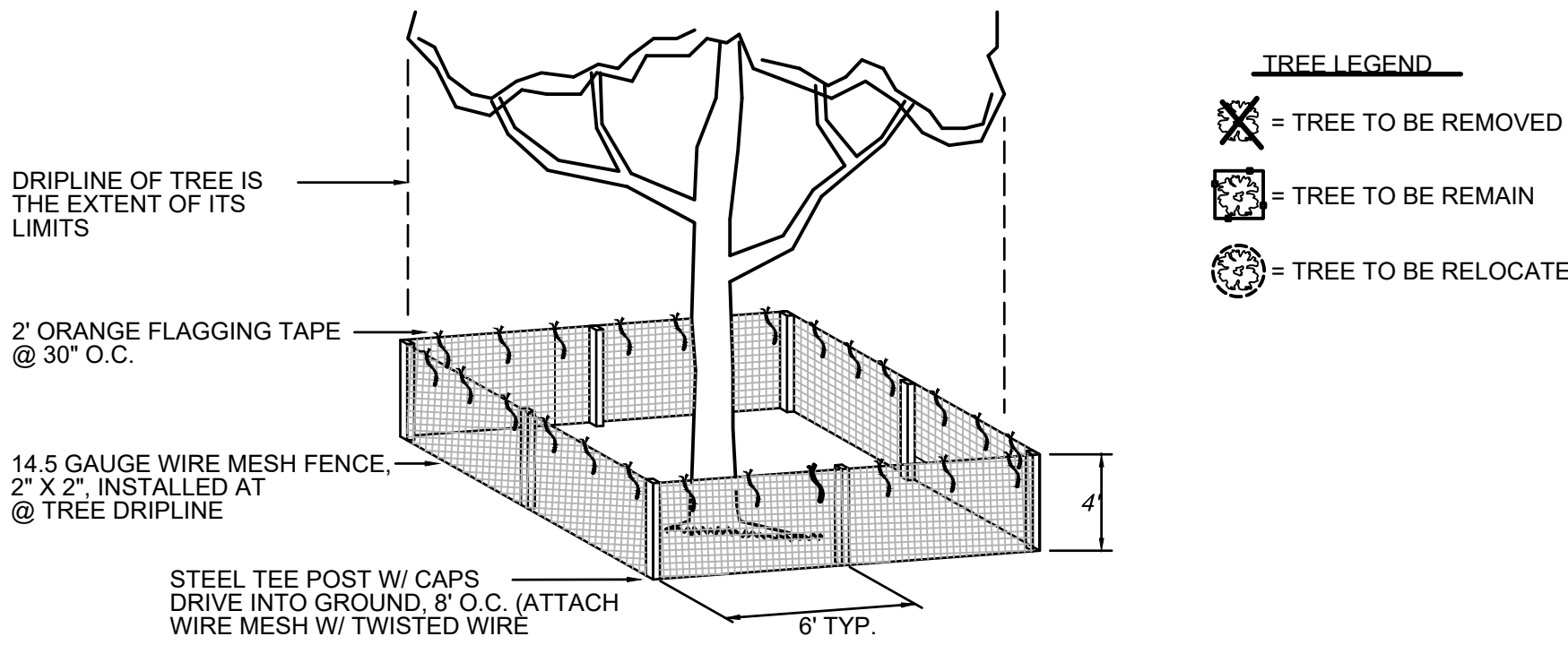
SEC. 22.12(e)(2)(c) TREE REPLACEMENT

REQUIRED: 2 TREES PER 1 REMOVED 4" OR GREATER D.B.H. AND 1 TREE PER 1 REMOVED 4" OR LESS D.B.H.
TOTAL TREES REQUIRED: 4 TREE CREDITS (1) 15" OAK, (1) 6" PALM
PROVIDED: 10 EXISTING TREE CREDITS

ROOT PRUNING NOTES

1. ROOT PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH ANSI A(300) PART 8, (ROOT MANAGEMENT) SUBPART 84.5 NON-SELECTIVE ROOT CUTTING AND SHALL BE COMPLETED UNDER DIRECT SUPERVISION OF AN ISA- OR ASCA- CERTIFIED ARBORIST.
2. ROOTS ARE TO BE PRUNED USING CLEAN, SHARP ROOT PRUNING TOOLS SUCH AS A POWER GROUND SAW, LOPPERS OR HAND SAW. MAKE CLEAN CUTS. RAKING OR TEARING THE ROOTS IS NOT PERMITTED.
3. AFTER ROOT PRUNING, THE TRENCH SHALL BE LIGHTLY BACKFILLED WITH TOPSOIL.

TREE LIST			
NUMBER	NAME	D.B.H.	STATUS
1001	OAK	15"	REMOVE
1002	PALM	2 1/2"/2"	REMOVE
1003	PALM	27"	REMAIN
1004	PALM	16"	REMAIN
1005	PALM	33"	REMAIN
1006	PALM	2 1/2"	REMAIN
1007	PALM	2 1/2"/2"	RELOCATE
1008	PALM	10"	OFFSITE
1009	PALM	11"	OFFSITE
1010	UNKNOWN		OFFSITE
1011	UNKNOWN		OFFSITE
1012	PALM	8"	OFFSITE
1013	PALM	8"	OFFSITE
1014	PALM	13"	OFFSITE
1015	UNKNOWN	5"	OFFSITE
1016	UNKNOWN	4"	OFFSITE
1017	PALM	10"	OFFSITE
1018	PALM	8"	OFFSITE
1019	PALM	9"	OFFSITE
1020	PALM	11"	OFFSITE
1021	PALM	10"	OFFSITE
1022	UNKNOWN	5"	OFFSITE
1023	UNKNOWN	5"	OFFSITE
1024	OAK	15"	OFFSITE
1025	SAGO PALM	14"	OFFSITE
1026	UNKNOWN	5"	OFFSITE
1027	PALM	2"	OFFSITE
1028	PALM	2"	OFFSITE
1029	UNKNOWN	5"	OFFSITE
1030	UNKNOWN	5"	OFFSITE
1031	UNKNOWN	4"	OFFSITE
1032	UNKNOWN	14"	OFFSITE
1033	UNKNOWN	4"	OFFSITE
1034	OAK	19"	OFFSITE
1035	UNKNOWN	4"	OFFSITE
1036	UNKNOWN	11"	OFFSITE
1037	OAK	15"	OFFSITE
1038	OAK	12"	OFFSITE
1039	PALM	10"	OFFSITE
1040	PALM	9"	OFFSITE
1041	PALM	9"	OFFSITE
1042	PALM	11"	OFFSITE
1043	PALM	10"	OFFSITE



TREE PROTECTION DETAIL

N.T.S.

TREE PROTECTION NOTES:

1. Four (4) foot high solid orange construction fencing shall be installed encompassing the drip line of each tree, or one foot in diameter for each inch of trunk diameter, whichever is greater. When surveyed fencing shall be moved to the edge of the tree protection area (TPA) as indicated on plans and be maintained through completion of construction.
2. Where the TPA occurs within 10 feet of the tree trunk, a trenching device shall be used to sever tree roots. Root raking shall not occur before roots have been clearly severed.
3. All equipment and/or materials are prohibited within the TPA. Including but not limited to cement wash-out, chemicals, fuel or equipment servicing.
4. Grade changes shall not occur within the TPA. No fill shall be added, removed or stored within the TPA with exception of prescribed potting soil (see item 10).
5. Brush and weeds occurring within the TPA shall be cleared by hand or utilizing only the mower of a light wheeled farm tractor (less than 60 hp). During such activities soil profiles shall not be disturbed.
6. Roto-tilling, disking, root raking or other clearing methods that disturb the soil profile are expressly prohibited.
7. Utility lines and/or irrigation lines shall not occur within the TPA.
8. Saved trees shall be pruned to remove dead and damaged wood, correct structural defects and to provide access and visibility.
9. Pruning shall be completed under direct observation by the Designated Forester of CPH Engineers, Inc. or owner designated ISA certified arborist and be accomplished by an arborist with five years or more experience pruning live oaks to ISA standards. Arborist must obtain approval from the owner prior to commencement of pruning activities. Two week advance notification is required.
10. Landscaping within TPA shall not disturb existing soil profiles. Eight inches of potting soil shall be imported and evenly spread to provide a planting medium within TPA.



Chick-fil-A

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



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State of Florida Licenses:

Engineer No. 3215

Surveyor No. LB7143

Architect. No. AA26000926

Landscape No. LC000298

Nov 16, 2022

This item has been digitally signed and sealed by Danita R. Bryant on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CHICK-FIL-A
St. Pete Beach
4623 Gulf Blvd.
St. Pete Beach, Florida
323706

FSR#01740

BUILDING TYPE / SIZE: S04-16R2
RELEASE: vX.YY.MM

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

CONSULTANT PROJECT # C29146

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DATE 1/31/2022

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SHEET
TREE REMOVAL PLAN

SHEET NUMBER

TR-1.0