PLANNING DIVISION

2600 Hollywood Boulevard Room 315
Hollywood, FL 33022

File No. (internal use only): _____

GENERAL APPLICATION

Tel: (954) 921-3471
Fax: (954) 921-3347

This application must be completed in full and submitted with all documents to be placed on a Board or Committee's agenda.

The applicant is responsible for obtaining the appropriate checklist for each type of application.

Applicant(s) or their authorized legal agent must be present at all Board or Committee meetings.

At least one set of the submitted plans for each application must be signed and sealed (i.e. Architect or Engineer).

Documents and forms can be accessed on the City's website at

http://www.hollywoodfl.org/DocumentCenter/Home/View/21

APPLICATION TYPE (CHECK ONE):

☒ Technical Advisory Committee ☐ Historic Preservation Board
☐ City Commission ☐ Planning and Development Board

Date of Application: _____

Location Address: Southwest Corner SR 84 and SW 30th Avenue

Lot(s): Parcel A Block(s): _____ Subdivision: Port 95 Commerce Park

Folio Number(s): 5042 29 40 0010

Zoning Classification: C-4 Commercial Land Use Classification: Commercial

Existing Property Use: Vacant Sq Ft/Number of Units: 0/0

Is the request the result of a violation notice? ( ) Yes (X) No If yes, attach a copy of violation.

Has this property been presented to the City before? If yes, check al that apply and provide File Number(s) and Resolution(s): No

☐ Economic Roundtable ☒ Technical Advisory Committee ☐ Historic Preservation Board
☐ City Commission ☐ Planning and Development

Explanation of Request: Site plan approval for a proposed Cumberland Farms convenience store with fuel pumps and associated parking lot improvements

Number of units/rooms: _____ Sq Ft: 6,425

Value of Improvement: $1,000,000 Estimated Date of Completion: 12/2018

Will Project be Phased? ( ) Yes (X)No If Phased, Estimated Completion of Each Phase

_____

Name of Current Property Owner: West Pond Associates LLC

Address of Property Owner: 100 S. Pointe Drive, #TH3, Miami Beach, FL 33139

Telephone: _____ Fax: _____ Email Address: _____

Name of Consultant/Representative/Tenant (circle one): Michael Troxell/Thomas Engineering

Address: 1000 Corporate Drive Suite 250 Fort Lauderdale, FL 33334 Telephone: 954-202-7000

Fax: 954-202-7070 Email Address: mtroxell@thomaseg.com

Date of Purchase: _____ Is there an option to purchase the Property? Yes ( ) No ( )

If Yes, Attach Copy of the Contract.

List Anyone Else Who Should Receive Notice of the Hearing: _____

_____ Address: _____

_____ Email Address: _____

PLANNING DIVISION

File No. (internal use only):_____

GENERAL APPLICATION

2600 Hollywood Boulevard Room 315
Hollywood, FL 33022

CERTIFICATION OF COMPLIANCE WITH APPLICABLE REGULATIONS

The applicant/owner(s) signature certifies that he/she has been made aware of the criteria, regulations and guidelines applicable to the request. This information can be obtained in Room 315 of City Hall or on our website at www.hollywoodfl.org. The owner(s) further certifies that when required by applicable law, including but not limited to the City's Zoning and Land Development Regulations, they will post the site with a sign provided by the Office of Planning and Development Services. The owner(s) will photograph the sign the day of posting and submit photographs to the Office of Planning and Development Services as required by applicable law. Failure to post the sign will result in violation of State and Municipal Notification Requirements and Laws.

(I)(We) certify that (I) (we) understand and will comply with the provisions and regulations of the City's Zoning and Land Development Regulations, Design Guidelines, Design Guidelines for Historic Properties and City's Comprehensive Plan as they apply to this project. (I)(We) further certify that the above statements and drawings made on any paper or plans submitted herewith are true to the best of (my)(our) knowledge. (I)(We) understand that the application and attachments become part of the official public records of the City and are not returnable.

Signature of Current Owner: _____ Date: 9/30/2017

PRINT NAME: Louis Paolino Date: 9/30/2017

Signature of Consultant/Representative: _____ Date: 11/17/2017

PRINT NAME: Michael Troxell/Thomas Engineering Group Date: 11/17/2017

Signature of Tenant: _____ Date: 11/17/2017

PRINT NAME: Michael Troxell/ Authorized Representative, Cumberland Farms, Inc. Date: _____

Current Owner Power of Attorney

I am the current owner of the described real property and that I am aware of the nature and effect the request for site plan approval for the Cumberland Farms store to my property, which is hereby made by me or I am hereby authorizing Michael Troxell / Thomas Engineering Group to be my legal representative before the Technical Advisory (Board and/or Committee) relative to all matters concerning this application.

Sworn to and subscribed before me
this 3 day of October

Andrew Kurt Carlson
Notary Public
State of Florida
My Commission Expires: April 24, 2018 (Check One) X Personally known to me; OR ___ Produced Identification _____

NOTARY PUBLIC STATE OF FLORIDA
ANDREW KURT CARLSON
MY COMMISSION # FF 116248
EXPIRES: April 24, 2018
Bonded Thru Budget Notary Services

_____
Signature of Current Owner

Louis Paolino, manager
Print Name West Pond Associates LLC

THOMAS ENGINEERING GROUP

THOMAS ENGINEERING GROUP
1000 CORPORATE DR., STE. 250
FORT LAUDERDALE, FL 33334
P: 954-202-7000
F: 954-202-7070

November 16, 2017

City of Hollywood
Department of Development Services
Hollywood, FL 33411

Re: Cumberland Farms – SR 84 &

The following is a response to staff comments. Below are the comments along with our responses in bold:

A. APPLICATION SUBMITTALS

1. Provide document demonstrating the application is signed by authorized and all applicable parties.

   Response: Please see attached information from SunBiz demonstrating that Louis Paolino is a registered agent for West Pond Associates

2. Provide documentation from the Broward County Planning Council verifying whether or not the site requires platting/replatting.

   Response: The plat determination request was sent in and the letter will be provided upon receipt.

3. Obtain a Transportation Satisfaction Certificate from the Broward County Planning and Environmental Regulation Division to determine whether the project is subject to the Transportation Concurrency Fees. Contact 954-357-6632.

   Response: We have been coordinating with Thuy Turner at the county for the Transportation Satisfaction review. The certificate will be provided upon receipt.

4. The site is located within 20,000 feet of Fort Lauderdale-Hollywood International Airport (FLL) it may be subject to Federal Aviation Regulation. Contact Scarlet Hammons at the Broward County Aviation Department, 954-359-6258.

   Response: Scarlet Hammons has been contacted regarding this project and has yet to provide a response. A set of plans has been sent to her office for review.

5. Provide an ALTA Survey. It shall be based on and dated after O&E with a note indicating as such and vice versa. Work with the Engineering Division to ensure the Survey is accurate.

   Response: Please refer to ALTA survey included in the submittal set.

6. Provide details of all regulatory signage and pavement markings. Work with the Engineering Division to ensure signage provided will adequately serve proposed circulation.

   Response: Details are provided on sheets CFG04.1 and CFG09.0.

7. Staff encourages Applicant to meet with surrounding civic associations prior to submitting for any Boards. Provide update with next submittal.

Response: Acknowledged.

8. Provide written responses to all comments with next submittal.

Response: Written responses are provided in this letter.

B. <u>ZONING</u>

1. The main permitted use shall be indicated as SERVICE STATION (with # fuel pumps) with convenience store as accessory use. Revise accordingly.

Response: The proposed use has been revised accordingly.

2. Service station is not a use permitted by right in all zoning districts and is only permitted by Special Exception. Special Exception is defined as a use not generally appropriate in a district, but would be appropriate if it is consistent with the review criteria listed for Special Exceptions. Provide justification for Special Exception criteria with next submittal.

Response: A Special Exception application will be submitted.

3. A perimeter wall 3-6 ft. in height shall be placed on any use that sells food or gasoline. Fence/wall should be placed along the inside of the landscape buffer.

Response: A variance application will be submitted for the perimeter wall requirement.

4. Project is required to install electric vehicle charging station infrastructure, please see Ordinance O-2016-02.

Response: Infrastructure for a future electric vehicle charging station is now proposed in the parking lot on the east side of the building. Please refer to sheet CFG04.0.

5. Provide dimensions and areas of terminal landscape islands. All terminal islands shall be a minimum of 190 square feet and have a length equal to that of the adjacent parking stall.

Response: Dimensions and areas are now provided on sheet CFG04.0.

6. All parking spaces shall have concrete car stops or curbing. Work with Engineering Division for this requirement. This may require a Variance.

Response: A variance application will be submitted for this requirement.

C. <u>ARCHITECTURE AND URBAN DESIGN</u>

1. Provide rendering of the Service Station canopy.

Response: Please refer to the two renderings and Canopy Elevations sheet CFG12.0 provided.

2. Provide material samples with next submittal. All renderings shall reflect actual proposed landscape material. Work with the City's Landscape Architect to ensure species proposed are appropriate.

Response: Please refer to the material sample board provided.

Terrence Comiskey A.I.A., Architect, 954-921-3900

1. There are no elevations of the pump island canopy. I cannot tell if it is cohesive with the design of the

building.

Response: Please refer to sheet CFG12.0 and the renderings for the canopy.

2. No details of the dumpster enclosure were included to be reviewed.

Response: The dumpster enclosure plan has been provided on sheet A-301.

3. How are they complying with the City's Green Building Ordinance?

Response: Please see the list provided on the site plan sheet CFG04.0.

D. <u>LANDSCAPE</u>

1. No comments received.

Response: Noted.

E. <u>SIGNAGE</u>

1. For review, full signage package shall be provided, including signage details, signs illustrated on elevations including the service station canopy, monuments, etc.

Response: Please refer to the signage package provided.

2. All signs, which are electrically illuminated by neon or other means, shall require a separate electrical permit and inspection. Separate permits are required for each sign.

Response: Noted. Separate permits will be submitted.

3. Include note indicating all signage shall be in compliance with the Zoning and Land Development Regulations.

Response: Note has been added to the signage package and on sheet CFG04.0.

F. <u>ZONING</u>

1. All lights and lighting on a service station shall be so designed and arrange as to not cause a direct glare into adjacent properties.

Response: Noted. Please refer to the photometrics plan provided.

G. <u>ZONING</u>

1. Project shall provide at least a minimum of 10 Green Building Practices in accordance with the City's Green Building Regulations. Indicate compliance on Site Plan and list practices to be implemented.

Response: Please see the list provided on the site plan sheet CFG04.0.

H. <u>ENVIRONMENTAL SUSTAINABILITY</u>

1. In the retention areas, consider using a native grass or native wetland plants. An example could be Fakahatchee grass which also provides wildlife benefits as the larval host of two skipper butterfly species and as a food source for birds. Considering proximity of the site to the water, utilizing plantings that will provide

water treatment benefits is desirable. Reduce sod used and replace with native grasses. Consult with the landscape architect.

Response: Acknowledged.

2. Utilize permeable pavement in the parking lot. Make sure all pavement is highly reflective "cool" pavement.

Response: Permeable concrete pavement is provided in the parking spaces along the east side of the site.

3. Utilize energy star certified roofing material for the store and canopy.

Response: Energy star certified roofing material will be implemented.

4. All external lights should be energy efficient and fully shielded. For the lamp posts, use fixtures with an IDA "dark skies approved" seal of approval.

Response: Acknowledged. Please refer to CFG10.1 for lighting details.

I. UTILITIES

1. Provide Water, Sewer and Drainage plans for review.

Response: Water, sewer, and drainage plans have been provided. Refer to sheets CFG5.0 and CFG07.0. A water-sewer availability letter from Broward County Water Wastewater services has been provided.

J. BUILDING

1. No comments received.

Response: Noted.

K. ENGINEERING

1. No comments received.

Response: Noted.

L. FIRE

1. Water supply must meet NFPA 1, 18.4.5.2. In order to determine a hydrant flow; test will need to be scheduled through our underground utilities dept., 954-921-3046. After the results are completed, show on the plan the calculations using table 18.4.5.1.2.

Response: Hydrant flow test has been coordinated. The results will be provided on the utility plan upon receipt.

2. Show all new (if needed) and existing hydrants on civil drawings.

Response: New and existing hydrants are shown on sheets CFG04.0 and CFG07.0.

3. Our turning radius is as follows: 28'.5" interior radius, 38' centerline of the turning radius, 45' exterior. The entry from Marina Rd. looks OK and as long as we can navigate around the complex and exit that same way, the turning radius onto SR 84 does not need to match our dimensions.

Response: Acknowledged. Radiuses are provided on sheet CFG04.0.

M. COMMUNITY DEVELOPMENT

1. Application is substantially compliant.

Response: Acknowledged.

N. PARKS, RECREATION AND CULTURAL ARTS

1. Application is substantially compliant.

Response: Acknowledged.

O. POLICE DEPARTMENT

1. No comments received.

Response: Acknowledged.

P. PUBLIC WOKS

1. No comments received.

Response: Acknowledged.

Q. ECONOMIC DEVELOPMENT

1. No comments received.

Response: Acknowledged.

R. DOWNTOWN AND CEACH CRA

1. No comments received.

Response: Acknowledged.

S. PARKING

1. No comments received.

Response: Acknowledged.

T. ADDITIONAL COMMENTS

1. None at this time.

Response: Acknowledged.

Should you have any questions or require any additional information please do not hesitate to contact me at (954) 202-7000. Thank you for your time and kind consideration with regards to this matter.

Sincerely,

THOMAS ENGINEERING, LLC

Maxwell Kaplan, P.E.

REQUEST AND JUSTIFICATION FOR VARIANCES

Variance Requests:

1. A variance is requested from Section 4.22 (Q.) of the Code to eliminate the requirement for a 3-6 foot high perimeter wall around the parcel. The Code requires a perimeter wall around a gas station. In this case, the Cumberland Farms site is a stand-alone parcel that is not directly adjacent to any similar or residential uses. The property is surrounded by roadways on all sides. There is a canal to the west and a retention area to the east that provide ample separation from the existing developments in addition to the roadways. The unique circumstances of this particular parcel are such that the perimeter wall requirement is not necessary as a buffer to the existing surrounding properties.

2. A variance is requested from Section 7.1 (B.2.k.) of the Code that states "all parking spaces shall have concrete car stops (6 ft. long) or curbing, except for tandem spaces and parking spaces in single family districts." Cumberland Farms proposes to have concrete sidewalk that is flush with the adjacent pavement in the parking spaces surrounding the building. Bollards will be provided at 5' on center along the sidewalk adjacent to the parking spaces. Cumberland Farms has found that in the interest of safety to persons and property, the installation of bollards is a more protective substitute to wheel stops. In circumstances where vehicles encounter wheel stops at low to moderate speeds, without stopping, such wheel stops have an unwanted and opposite effect from the purpose they are designed to serve, instead catapulting vehicles into dangerous zones inhabited by pedestrians, seated customers, glass storefronts, and customers within the hybrid convenience store. Bollards are more expensive and complicated to install than wheel stops and provide Cumberland Farms customers an adequate level of protection. Wheel stops do not meet the minimum level of protection from vehicle-pedestrian conflicts and, moreover, such wheel stops are trip hazards to pedestrians. Installation of vehicle bollards, therefore, is necessary to establishing a minimum safe environment within the Proposed Development.

Justification Statement:

General Information:

The Cumberland Farms parcel is 2.48 acres in size and is a currently vacant parcel of land abutting State Road 84 and SW 30th Avenue within the Port 95 Commerce Park. Cumberland Farms intends to develop a fuel canopy (no service) with 16 fuel dispensers (8 fuel islands) and 5,600 square foot convenience store that will provide a wide range of products for the public. The new Cumberland Farms fuel canopy provides the consumer with accessible fueling stations which are convenient and safe and a modern convenience store that provides the public with many products and choices. The new facility is designed to meet the needs of the modern consumer in every way.

The property is listed as General Business use on the applicable land use plan and is zoned as C-4 (Medium/High Intensity Commercial). Both land use and zoning designations recognize that this parcel is suitable and desirable for commercial development that serves the public traveling on a major corridor.

Specific Variance Criteria

A. That the requested variance maintains the basic intent and purpose of the subject regulations, particularly as it affects the stability and appearance of the City.

1. The variance request to eliminate the perimeter wall requirement is in keeping with the intent of the code in that the Cumberland Farms parcel is a standalone parcel with ample separation distance from adjacent developments. The property is surrounded by roadways on all sides with a canal on the west side and existing retention area on the east side. Cumberland Farms feels that the wall requirement was meant to apply to a properties directly adjacent to similar or residential uses with little to no separation.

2. The requested variance maintains the basic intent and purpose of the subject regulations in that the substitution of bollards for wheel stops provides further protection to the public. The bollards will create a safer environment for pedestrians and customers and eliminate any potential damages from vehicles to the store. The safety of the store users is of utmost importance to Cumberland Farms, and the bollards serve to enhance the level of safety for the public.

B. That the requested variance is otherwise compatible with the surrounding land uses and would not be detrimental to the community.

All of the requested variances are compatible with the surrounding areas in that the property's land use and zoning designation contemplate major traffic corridor uses such as the Cumberland Farms use. Further, the variances will not detract from the overall aesthetic appeal of the Cumberland Farms facility which is of the higher quality.

C. That the requested variance is consistent with and in furtherance of the Goals, Objectives and Policies of the adopted Comprehensive Plan, as amended from time to time, the applicable Neighborhood Plan and all other similar plans adopted by the City.

The requested variances are consistent with the Goals, Objectives and Policies of the Comprehensive Plan in that they allow the Cumberland Farms use to better serve the public along a major transportation corridor without compromising the aesthetic appeal of the development.

D. That the need for the variance is not economically based or self-imposed.

The requested variances are not economically based or self-imposed. The variances relate

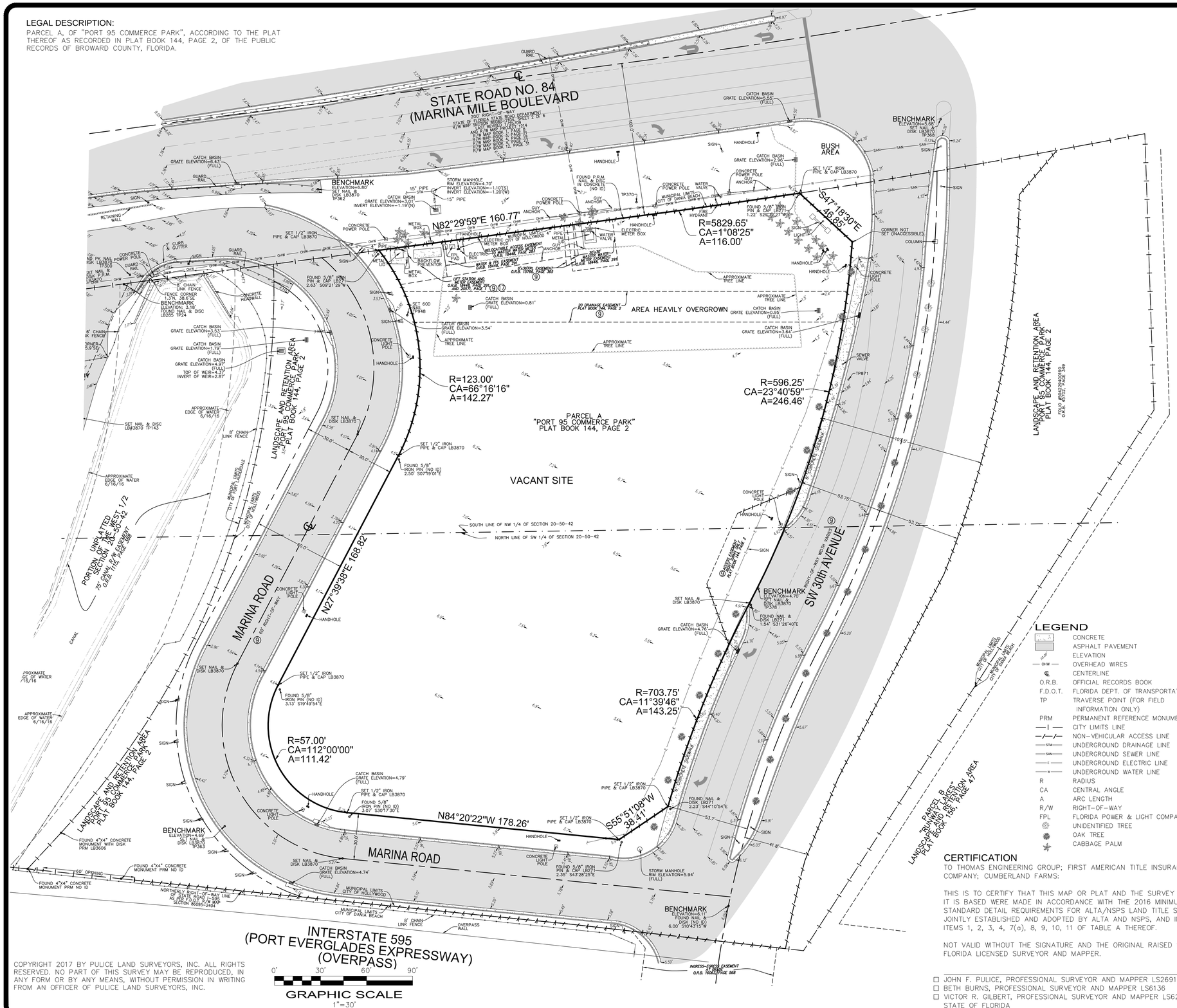
to the unique characteristics of the property, the location of the property in relation to surrounding uses and abutting a major transportation corridor, and the unique characteristics of the Cumberland Farms business.

E. *The variance is necessary to comply with state or federal law and in the minimum variance necessary to comply with the applicable law.*

The requested variances are the minimum variances necessary to develop the Cumberland Farms convenience store and fuel canopy on the property given its location and unique characteristics and the unique services that are provided to the public.

LEGAL DESCRIPTION:

PARCEL A, OF "PORT 95 COMMERCE PARK", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 144, PAGE 2, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.



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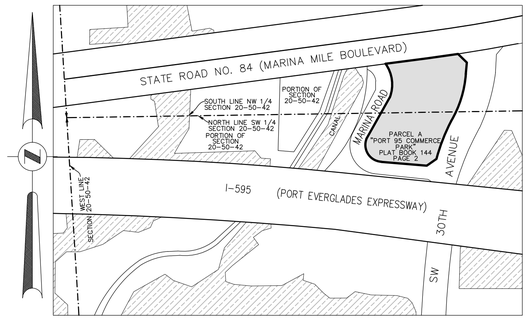


VICINITY MAP

NOT TO SCALE

NOTES:

1) THIS SITE CONTAINS 108,136 SQUARE FEET (2.4825 ACRES), MORE OR LESS.
2) ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. BROWARD COUNTY BENCHMARK #3694; ELEVATION: 6.697 FEET.
3) FLOOD ZONE: AE & AH; BASE FLOOD ELEVATION: 6 FEET; PANEL #125113 0558H; MAP DATE: 8/18/14.
4) THIS SITE LIES IN SECTION 20, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA.
5) BEARINGS ARE BASED ON THE SOUTH RIGHT-OF-WAY LINE OF STATE ROAD 84 BEING N82°29'59"E.
6) REASONABLE EFFORTS WERE MADE REGARDING THE EXISTENCE AND THE LOCATION OF UNDERGROUND UTILITIES. THIS FIRM, HOWEVER, DOES NOT ACCEPT RESPONSIBILITY FOR THIS INFORMATION. BEFORE EXCAVATION OR CONSTRUCTION CONTACT THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION.
7) THIS SURVEY IS CERTIFIED EXCLUSIVELY TO: THOMAS ENGINEERING GROUP; CUMBERLAND FARMS, INC., A DELAWARE CORPORATION; FIRST AMERICAN TITLE INSURANCE COMPANY.
8) THE HORIZONTAL POSITIONAL ACCURACY OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.2'. THE VERTICAL ACCURACY OF ELEVATIONS OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.1'.
9) THIS SITE CONTAINS NO MARKED PARKING SPACES.
10) THIS SURVEY WAS PREPARED WITH BENEFIT OF AN OWNERSHIP AND ENCUMBRANCE REPORT, FILE No. NCS-869444-1-HOU, PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, WITH AN EFFECTIVE DATE OF NOVEMBER 9TH, 2017 @ 8:00 A.M.

THE FOLLOWING ITEMS ARE EXCEPTIONS IN SCHEDULE B-II OF SAID COMMITMENT:

ITEMS 1, 2, 3, 4, 5, 6, 7 & 8–STANDARD EXCEPTIONS NOT ADDRESSED.

ITEM 9–RESTRICTIONS, DEDICATIONS, CONDITIONS, RESERVATIONS, EASEMENTS AND OTHER MATTERS IN PLAT BOOK 144, PAGE 2; AS AFFECTED BY EASEMENT TO FLORIDA POWER & LIGHT COMPANY IN O.R.B. 15766, PAGE 365; AS FURTHER AFFECTED BY EASEMENT IN O.R.B. 20571, PAGE 1 APPLY TO THIS SITE AS DEPICTED HEREON. O.R.B. 18448, PAGE 19 DOES NOT APPLY TO THIS SITE (THERE MAY BE A TYPO IN THE COMMITMENT).

ITEM 10–TERMS, PROVISIONS AND CONDITIONS IN RESOLUTION DESIGNATING AREA OF OPERATION OF BOARD COUNTY WATER AND SEWER SYSTEM NO. 3 IN O.R.B. 3843, PAGE 410; AS MODIFIED BY RESOLUTION CORRECTING RESOLUTION DESIGNATING AREA OF OPERATION OF BROWARD COUNTY WATER AND SEWER SYSTEM NO. 3 IN O.R.B. 4442, PAGE 847 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 11–TERMS, PROVISIONS AND CONDITIONS IN ORDINANCE NO. 88-82 IN O.R.B. 16065, PAGE 877; AS MODIFIED BY NOTICE OF ADOPTION OF DEVELOPMENT ORDER IN O.R.B. 17557, PAGE 491; AS MODIFIED BY AFFIDAVIT IN O.R.B. 17599, PAGE 35; AS MODIFIED BY NOTICE OF AMENDMENT OF DEVELOPMENT ORDER IN O.R.B. 23610, PAGE 81 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 12–TERMS AND CONDITIONS OF THE FINISHED WATER FOR RESALE AGREEMENT IN O.R.B. 16562 PAGE 454 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 13–TERMS AND CONDITIONS OF THE LARGE USER WASTEWATER TRANSMISSION AGREEMENT IN O.R.B. 16562, PAGE 473 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 14–TERMS AND CONDITIONS OF THE MEMORANDUM OF DEVELOPMENT AGREEMENT AND AGREEMENT ESTABLISHING OPTION RIGHTS AND RESTRICTIONS ON DEVELOPMENT IN O.R.B. 16636, PAGE 113; AS AFFECTED BY FIRST AMENDMENT DEVELOPMENT AGREEMENT AND AGREEMENT ESTABLISHING OPTIONS RIGHTS AND RESTRICTIONS ON DEVELOPMENT IN O.R.B. 20718, PAGE 861 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 15–NOTICE OF ADOPTION OF DEVELOPMENT ORDER IN O.R.B. 17557, PAGE 491 APPLIES TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 16–TERMS AND CONDITIONS OF THE REVOCABLE LICENSE AGREEMENT IN O.R.B. 18177, PAGE 1 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 17–EASEMENT IN O.R.B. 20571, PAGE 1 APPLIES TO THIS SITE AS DEPICTED HEREON.

ITEM 18–DECLARATION OF COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS, IN O.R.B. 21694, PAGE 570, AS AFFECTED BY AMENDMENT TO DECLARATION OF COVENANTS, RESTRICTIONS AND EASEMENTS FOR PORT 95 COMMERCE PARK IN O.R.B. 31464, PAGE 1132; AS FURTHER AFFECTED BY AMENDMENT TO DECLARATION OF COVENANTS, RESTRICTIONS AND EASEMENTS FOR PORT 95 COMMERCE PARK IN O.R.B. 31464, PAGE 1135 APPLIES TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 19–TERMS AND CONDITIONS OF THE AGREEMENT REGARDING ALLOCATION OF DEVELOPMENT RIGHTS IN O.R.B. 30127, PAGE 868 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 20–COVENANTS, CONDITIONS AND RESTRICTIONS IN QUIT CLAIM DEED IN O.R.B. 45702, PAGE 349 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

LEGEND

	CONCRETE
	ASPHALT PAVEMENT
20.00'	ELEVATION
— OHW —	OVERHEAD WIRES
℄	CENTERLINE
O.R.B.	OFFICIAL RECORDS BOOK
F.D.O.T.	FLORIDA DEPT. OF TRANSPORTATION
TP	TRAVERSE POINT (FOR FIELD INFORMATION ONLY)
PRM	PERMANENT REFERENCE MONUMENT
—I—	CITY LIMITS LINE
—/—/—	NON-VEHICULAR ACCESS LINE
—STM—	UNDERGROUND DRAINAGE LINE
—SAN—	UNDERGROUND SEWER LINE
—t—	UNDERGROUND ELECTRIC LINE
—w—	UNDERGROUND WATER LINE
R	RADIUS
CA	CENTRAL ANGLE
A	ARC LENGTH
R/W	RIGHT-OF-WAY
FPL	FLORIDA POWER & LIGHT COMPANY
	UNIDENTIFIED TREE
	OAK TREE
	CABBAGE PALM

CERTIFICATION

TO THOMAS ENGINEERING GROUP; FIRST AMERICAN TITLE INSURANCE COMPANY; CUMBERLAND FARMS:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 7(a), 8, 9, 10, 11 OF TABLE A THEREOF.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

☐ JOHN F. PULICE, PROFESSIONAL SURVEYOR AND MAPPER LS2691
☐ BETH BURNS, PROFESSIONAL SURVEYOR AND MAPPER LS6136
☐ VICTOR R. GILBERT, PROFESSIONAL SURVEYOR AND MAPPER LS6274
STATE OF FLORIDA

NO.	REVISIONS	BY
5		
4		
3		
2		
1		

PROPOSED
CUMBERLAND FARMS SITE
WEST STATE ROAD NO. 84
HOLLYWOOD, BROWARD COUNTY
FLORIDA 33312

BOUNDARY AND TOPOGRAPHIC SURVEY
ALTA/NSPS LAND TITLE SURVEY

PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777
FAX: (954) 572-1778
E-MAIL: surveys@pulicelandsurveyors.com
CERTIFICATE OF AUTHORIZATION LB#3870

DRAWN BY: L.S.	SCALE: 1" = 30'	FILE: THOMAS ENGINEERING GROUP
CHECKED BY: J.F.P.	SURVEY DATE: 11/14/17	ORDER NO.: 63238

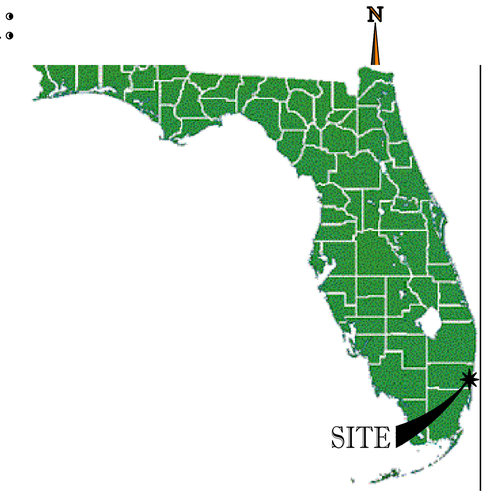
SITE DEVELOPMENT DRAWINGS FOR:

Cumberland FARMS

W STATE ROAD 84, HOLLYWOOD

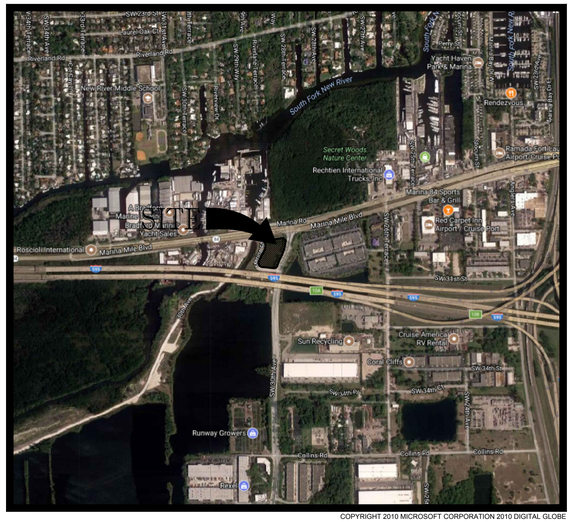
BROWARD COUNTY, FL

SECTION 20, TOWNSHIP 50S, RANGE 42E



VICINITY \ AERIAL MAP

1"=1000'



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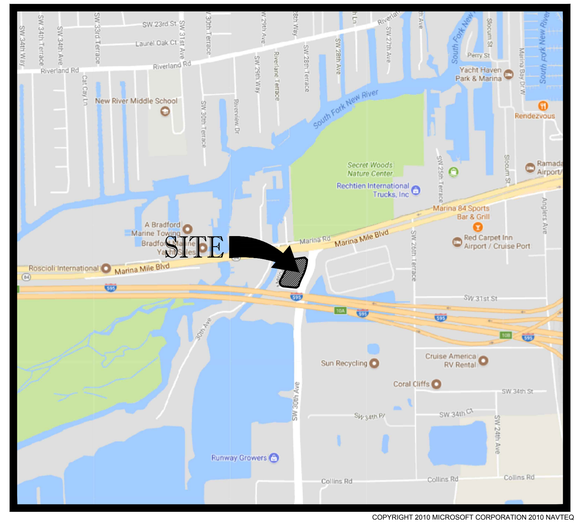
LOCATION MAP

1"=1000'



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LEGAL DESCRIPTION:

PARCEL A, OF "PORT 95 COMMERCE PARK", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 144, PAGE 2, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

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REVISIONS:

REV:	DATE:	COMMENT:	BY:

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039 COVER SHEET

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

CUMBERLAND FARMS, INC.

CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

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PROFESSIONAL ENGINEER
November 17, 2017
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SHEET TITLE:

COVER SHEET

SHEET NUMBER:

CFG01.0

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G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039 COVER SHEET-----LAYOUT: CFG01.0 COVER SHEET

GENERAL NOTES

CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE CONFORMANCE TO THESE REQUIREMENTS BY ALL SUBCONTRACTORS.

1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:

- TOPOGRAPHIC SURVEY - PULICE LAND SURVEYORS, INC.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT HE/SHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE.

2. ALL HANDICAPPED PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. SEC. 1210 ET SEQ. AND 42 U.S.C. SEC. 4151 ET SEQ.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THIS PROJECT IS TO BE CONSTRUCTED.

3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND EPROVALS ON SITE AT ALL TIMES.

4. THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE REQUIREMENTS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES HAVING JURISDICTION OVER THIS PROJECT.

6. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.

7. THE TOPOGRAPHIC SURVEY PREPARED BY PULICE LAND SURVEYORS, INC., SHALL BE CONSIDERED A PART OF THESE PLANS.

8. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO THOMAS ENGINEERING GROUP BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THOMAS ENGINEERING GROUP IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.

9. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO THE GIVING OF SUCH NOTIFICATION AND THE ENGINEER'S WRITTEN AUTHORIZATION OF SUCH ADDITIONAL WORK.

10. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY LOCATIONS.

11. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER OF ANY DISCREPANCIES.

12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT AND CONTIGUOUS STRUCTURES.

14. THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, ETC. WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.

15. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.

16. ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

17. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS / MEANS FOR COMPLETION OF THE WORK DEPICTED NEITHER ON THESE PLANS, NOR FOR ANY CONFLICTS/SCOPE REVISIONS WHICH MAY RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

18. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAS THE ENGINEER OF RECORD BEEN RETAINED FOR SUCH PURPOSES.

19. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME THOMAS ENGINEERING GROUP, AND ITS SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH THOMAS ENGINEERING GROUP WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS THOMAS ENGINEERING GROUP AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.

20. THOMAS ENGINEERING GROUP WILL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THOMAS ENGINEERING GROUP'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THOMAS ENGINEERING GROUP HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THOMAS ENGINEERING GROUP WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. THOMAS ENGINEERING GROUP WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

21. NEITHER THE PROFESSIONAL ACTIVITIES OF THOMAS ENGINEERING GROUP, NOR THE PRESENCE OF THOMAS ENGINEERING GROUP OR ITS EMPLOYEES AND SUB-CONSULTANTS AT A CONSTRUCTION / PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THOMAS ENGINEERING GROUP AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THOMAS ENGINEERING GROUP SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.

22. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS RELATED TO SAME.

23. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM SHOULD BE INCLUDED IN THE CONTRACTOR'S PRICE.

24. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

25. CONTRACTOR SHALL CONFIRM ADA ACCESSIBILITY PRIOR TO INSTALLING FINISHING COURSES OF SIDEWALKS AND PARKING AREAS.

26. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A RECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.

27. ALL UTILITY EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED) PRIOR TO CERTIFICATE OF OCCUPANCY. (THESE EASEMENTS SHALL BE SKETCHED, DESCRIBED, AND RECORDED AT THE SOLE COST OF THE CONTRACTOR).

28. CONTRACTOR SHALL PROVIDE MINIMUM 48 HOUR NOTICE TO ENGINEER AND APPLICABLE AGENCIES FOR SCHEDULING INSPECTIONS.

29. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND CITY OF HOLLYWOOD FOR THE FOLLOWING: DRAINAGE PIPES, CATCH BASINS, FIRE HYDRANTS, VALVES, AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

30. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.

31. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D. AND APPROVED BY TOWN OF DAVIE AND BROWARD COUNTY WHERE APPLICABLE PRIOR TO IMPLEMENTATION.

32. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

33. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE THE BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM THE CITY OF WESTON.

34. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR ANY PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK ROUTE. ALL RESTORED TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCY'S TRAFFIC ENGINEERING STANDARDS.

SANITARY SEWER NOTES:

A. GENERAL:
   1. DISTANCE AND LENGTHS SHOWN ON PLANS REFERENCE THE CENTER OF STRUCTURES.

B. MATERIALS:
   1. ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS. (24" SHALL BE DR-25)
   2. DUCTILE IRON PIPE (DIP) SHALL BE CEMENT OR POLYUREED INSIDE AND SHALL HAVE A COAL TAR EPOXY COATING. MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-86 OR LATEST REVISION, MINIMUM WALL THICKNESS CLASS 52 (4"-12") & CLASS 51 (14"-20") (UNLESS OTHERWISE SPECIFIED).
   3. ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.

C. INSTALLATION:
   1. PIPE AND FITTINGS:
      a. SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, AND THE UNI-BELL PLASTICS PIPE ASSOCIATION'S "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE".
      b. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-93 OR LATEST REVISION.
      c. BEDDING AND INITIAL BACKFILL (12 INCHES) OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4 " WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF BROWARD COUNTY. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.
   3. SERVICE:
      a. MINIMUM SLOPE OF ALL SERVICE LINES SHALL BE AS INDICATED IN THE FLORIDA BUILDING CODE.
      b. SERVICE LATERALS SHALL TERMINATE AT A DEPTH 30" BELOW FINISHED GRADE OR AS INDICATED ON PLUMBING PLAN.
      c. EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED PLUG.
      d. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x4" TREATED STAKE PAINTED RED, EXTENDING 18"(MIN) ABOVE GRADE.
      e. CONTRACTOR SHALL ROUGH IN RISER TO 1 FOOT ABOVE FINISHED GRADE AND PLUG. AT PROJECT COMPLETION, CUT BACK TO FINISHED GRADE.
      f. CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE COORDINATED WITH THE CITY'S BUILDING AND ZONING DEPARTMENT, PLUMBING SECTION.

D. TESTING:
   1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.
   2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.
   3. MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBLE LEAKAGE ALLOWED.
   4. SEWER PIPE LEAKAGE ALLOWABLE SHALL NOT EXCEED 150 GALLONS PER DAY PER INCH DIAMETER PER MILE IN ATWO HOUR TEST PERIOD FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED AND ALL LINES SHALL BE T.V. INSPECTED.
   5. SANITARY SEWER SHALL BE TELEVISED AND LAMPED AT DEVELOPER'S EXPENSE, PRIOR TO FINAL ACCEPTANCE. OWNER / CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO CERTIFICATION TO ANY AGENCY.
   6. VISIBLE INFILTRATION LEAKAGE INTO MANHOLES AND SEWER PIPE SHALL NOT BE PERMITTED.

WATER DISTRIBUTION AND/OR SANITARY SEWER FORCE MAIN SYSTEM

A. GENERAL:
   1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL PRESSURE TESTS, FOR THE WATER AND SEWER FORCE MAINS, AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED AND THE SYSTEM IS ACCEPTABLE TO THE CITY OF HOLLYWOOD UTILITIES DEPARTMENT AND THE CITY OF HOLLYWOOD WATER & SEWER DEPARTMENT.
   2. BEDDING AND INITIAL BACKFILL FOR MAINS SHALL BE SAND WITH NO ROCKS LARGER THAN 1" IN DIAMETER
   3. USE "DETECTO' TAPE ON ALL PVC MAINS (18" ABOVE), AND USE "NON-DETECTO" TAPE ON ALL D.I.P. MAINS (18" ABOVE).
   4. A THREE (3) FOOT HORIZONTAL SEPARATION IS REQUIRED BETWEEN WATER MAINS AND OBSTRUCTIONS (I.E. CATCH BASINS, POWER POLES, ETC.). FIVE (5) FOOT OF SEPARATION IS REQUIRED BETWEEN WATER MAINS AND TREES.

B. MATERIALS:
   1. DUCTILE IRON PIPE (DIP) SHALL BE CLASS 52 UP TO 12" SIZE & CLASS 51 FOR 14" AND LARGER WITH INTERIOR CEMENT LINING AND BITUMINOUS COATED OUTSIDE. WATER MAIN & EPOXY LINED & COATED FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-91 OR LATEST REVISION. THE PIPE SHALL WITHSTAND A WORKING PRESSURE OF 350 PSI. THE JOINTS SHALL BE BELL AND SPIGOT PUSH-ON TYPE UNLESS OTHERWISE NOTED ON THE PLANS.
   2. ALL PVC MAINS SHALL BE SERIES 1120, CLASS 150 (DR 18) PRESSURE PIPE CONFORMING TO ANSI/AWWA C900-89 OR LATEST REVISION, AND SHALL HAVE PUSH-ON JOINTS, AND IRON PIPE O.D. (PVC ON-SITE ONLY)
   3. FITTINGS FOR MAINS 4" AND LARGER SHALL BE DUCTILE IRON MECHANICAL JOINT CONFORMING TO ANSI/AWWA C110/A21.10-93 OR LATEST REVISION. COMPLETE WITH GLANDS, GASKETS, BOLTS AND NUTS. ALL FITTINGS SHALL BE CEMENT LINED AND SEAL COATED WITH THE SAME MATERIALS AS THE PIPE & USE MEGALUG SERIES 1100 RESTRAINED JOINT ADAPTERS.
   4. VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C509-87 OR LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.
      a. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2360-20, RESILIENT SEATED GATE VALVES SHALL BE AMERICAN 500/2500 LINE OR CLOW F-6100, CONFORMING TO ANSI/AWWA C509-87.
      b. TAPPING VALVES SHALL BE MUELLER H667 OR APPROVED EQUAL..
      c. GATE VALVES 3" OR LESS SHALL BE NIBCO T-133 OR T-136 WITH MALLEABLE HAND WHEELS. NO SUBSTITUTIONS ALLOWED.
   5. TAPPING SLEEVES SHALL BE MUELLER H615 OR APPROVED EQUAL PER BROWARD COUNTY.
   6. VALVE BOXES SHALL BE TYLER/UNION 461-S OR APPROVED EQUAL PER BROWARD COUNTY.
   7. RETAINER GLANDS SHALL CONFORM TO ANSI/AWWA C111/A21.11-90 OR LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER PRESSURE RATING. CLOW CORPORATION MODEL F-1058 OR STANDARD FIRE PROTECTION EQUIPMENT COMPANY OR APPROVED EQUAL.
   8. DRESSER COUPLINGS SHALL BE REGULAR BLACK COUPLINGS WITH PLAIN GASKETS FOR GALVANIZED STEEL PIPE. THEY SHALL BE DRESSER STYLE 90. NO SUBSTITUTIONS ALLOWED.
   9. FIRE HYDRANTS SHALL HAVE A 5 1/4 " MAIN VALVE OPENING. PUMPER NOZZLE TO BE 18" FROM FINISH GRADE. ALL HYDRANTS TO BE INSTALLED WITH ANCHORING TEE AND CONTROL VALVE. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C502-85 (OR LATEST REVISION). HYDRANTS SHALL BE KENNEDY GUARDIAN K-81-4 OR APPROVED EQUAL. BLUE REFLECTIVE PAVEMENT MARKER REQUIRED IN CENTER OF NEAREST DRIVING LANE FOR FIRE HYDRANTS.

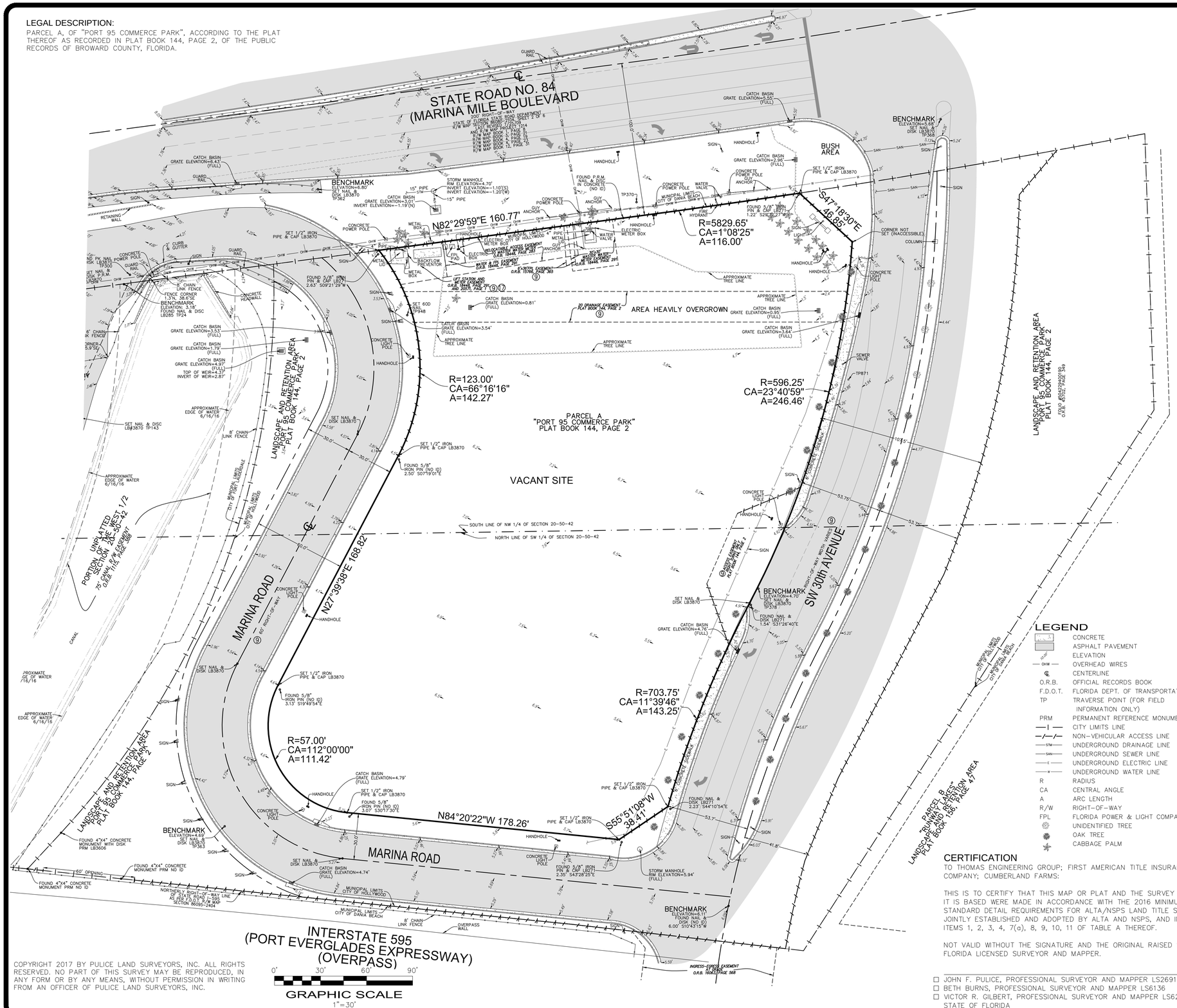
C. SERVICE CONNECTION:
   1. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B-62 WITH THREADED ENDS, AS MANUFACTURED BY MUELLER OR APPROVED EQUAL.
   2. CURB STOPS SHALL BE MUELLER OR APPROVED EQUAL.
   3. METER STOPS SHALL BE 90° LOCK WING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ASTM B-62. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY MUELLER OR APPROVED EQUAL.
   4. SERVICE PIPING SHALL BE TYPE 'K' DRAWN COPPER.

D. INSTALLATION:
   1. GENERAL:
      CONNECTION OF ALL NEW SYSTEMS TO EXISTING MAINS SHALL BE DONE BY USING ONE OF THE FOLLOWING METHODS:
      a. METHOD A PER BROWARD COUNTY PUBLIC HEALTH UNIT STANDARDS, WHICH INVOLVES A REDUCED SIZE TEMPORARY CONNECTION BETWEEN THE EXISTING MAIN AND THE NEW ONE.
      b. METHOD B PER BROWARD COUNTY PUBLIC HEALTH UNIT STANDARDS, WHICH INVOLVES A DIRECT CONNECTION BETWEEN THE NEW AND EXISTING MAINS USING TWO GATE VALVES SEPARATED BY A SLEEVE WITH A VENT PIPE.
      c. METHOD C APPROVED BY BROWARD COUNTY PUBLIC HEALTH UNIT, WHICH INVOLVES A TAP WITH ONE GATE VALVE REQUIRING DISINFECTION OF THE NEW SYSTEM PRIOR TO CONDUCTING THE PRESSURE TEST.
   2. BEDDING:
      BEDDING AND INITIAL BACKFILL (12 INCHES ABOVE PIPE) FOR All PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4 " WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF BROWARD COUNTY. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.
   3. PVC PIPE:
      a. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATION'S GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEMS.
      b. PVC PIPE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER
      c. DETECTOR TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL PVC MAINS APPROXIMATELY 18" ABOVE THE PIPE, COLOR SIDE UP.
      d. ALL WATER MAIN PIPE, INCLUDING FITTINGS SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER, IN ACCORDANCE WITH F.A.C. 62-555.320(21) (B) (3).
   4. DUCTILE PIPE:
      a. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-99 OR LATEST REVISION.
      b. D.I.P. SHALL BE INSTALLED WITH A MINIMUM OF 30" COVER.
      c. "NON-DETECTOR" TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL D.I.P. MAINS APPROXIMATELY 18" ABOVE THE MAIN COLOR SIDE UP
   5. VALVES:
      a. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" OR "SEWER" CAST IN THE COVER. A BRASS DISK INDICATING, SIZE, TYPE, KIND & OPERATOR INSTRUCTIONS SHALL BE INSTALLED ADJACENT TO VALVE BOX.
      b. MAIN VALVES SHALL BE LOCATED ON AN EXTENSION OF THE RIGHT-OF-WAY LINE UNLESS DIMENSIONED OTHERWISE.
      c. MAIN VALVES SHALL BE INSTALLED AWAY FROM PARKING AREAS. IF THIS IS UNAVOIDABLE, PROPER MEASURES SHALL BE TAKEN TO AVOID THE PARKING OF VEHICLES OVER THE VALVES. HYDRANT VALVES SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. VALVES LOCATED IN NON-PAVED AREAS OR IN PARKING STALLS REQUIRE A REFLECTIVE PAVEMENT MARKER ON THE CENTER OF THE NEAREST LANE OF ROAD PAVEMENT. WHITE REFLECTORS FOR THE WATER MAIN VALVES, GREEN REFLECTORS FOR FORCE MAIN VALVES. ℄ THE DISTANCE FROM THE TOP OF THE VALVE ACTUATOR NUT TO FINAL GRADE SHALL BE A MINIMUM OF 12 INCHES AND A MAXIMUM OF 18 INCHES.
   6.SERVICE:
      a. COVER OVER SERVICE LINES SHALL BE 18" MINIMUM, 36" MAXIMUM BELOW FINISHED GRADE AND 36" UNDER PAVEMENT.
      b. SERVICES UP TO 2" SHALL BE TYPE "K" COPPER PER BROWARD COUNTY.
      c. METER STOPS SHALL HAVE 8" TO 10" COVER AS REQUIRED FOR PROPER METER/BOX INSTALLATION.
      d. WATER SERVICES UNDER PAVEMENT SHALL BE ENCASED IN A SCHEDULE 80 PVC SLEEVE FOR THE FULL LENGTH OF THE PAVEMENT AND FOR 2' BEYOND THE EDGE. SLEEVE DIAMETER SHALL BE TWICE THE DIAMETER OF THE SERVICE PIPE.
      e. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x4" TREATED STAKE, PAINTED BLUE EXTENDING 18" (MINIMUM) ABOVE GRADE UNLESS INDICATED OTHERWISE.

E. TESTING
   1. BEFORE ANY PHYSICAL CONNECTIONS TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE PRESSURE TESTED AND DISINFECTED.HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C600-05 OR LATEST REVISION, THE PRESSURE TEST SHALL NOT VARY MORE THAN ±5 P.S.I. DURING THE TEST.
   2. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF CITY OF HOLLYWOOD AND THE ENGINEER OF RECORD.
   3. BEFORE ACCEPTANCE FOR OPERATION, THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C651-05; 150 PSI MINIMUM STARTING TEST PRESSURE, WITH BACTERIOLOGICAL SAMPLES APPROVED BY THE BROWARD COUNTY PUBLIC HEALTH DEPARTMENT.
   4. SAMPLING POINTS SHALL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLANS.IF NOT SPECIFIED, SAMPLING POINTS SHALL BE PROVIDED AT INTERVALS OF 1200' MAXIMUM FOR LINES GREATER THAN 1200' IN LENGTH.PROVIDE A MINIMUM OF TWO SAMPLING POINTS FOR ALL OTHER TEST SEGMENTS. SAMPLE POINTS MUST BE. APPROVED BY BROWARD COUNTY PUBLIC HEALTH DEPARTMENT.
   5. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA

LEGAL DESCRIPTION:

PARCEL A, OF "PORT 95 COMMERCE PARK", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 144, PAGE 2, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.



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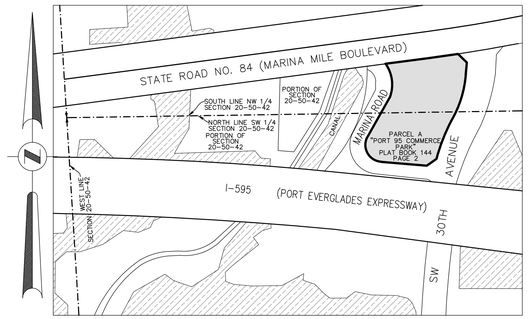


VICINITY MAP

NOT TO SCALE

NOTES:

1) THIS SITE CONTAINS 108,136 SQUARE FEET (2.4825 ACRES), MORE OR LESS.
2) ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. BROWARD COUNTY BENCHMARK #3694; ELEVATION: 6.697 FEET.
3) FLOOD ZONE: AE & AH; BASE FLOOD ELEVATION: 6 FEET; PANEL #125113 0558H; MAP DATE: 8/18/14.
4) THIS SITE LIES IN SECTION 20, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA.
5) BEARINGS ARE BASED ON THE SOUTH RIGHT-OF-WAY LINE OF STATE ROAD 84 BEING N82°29'59"E.
6) REASONABLE EFFORTS WERE MADE REGARDING THE EXISTENCE AND THE LOCATION OF UNDERGROUND UTILITIES. THIS FIRM, HOWEVER, DOES NOT ACCEPT RESPONSIBILITY FOR THIS INFORMATION. BEFORE EXCAVATION OR CONSTRUCTION CONTACT THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION.
7) THIS SURVEY IS CERTIFIED EXCLUSIVELY TO: THOMAS ENGINEERING GROUP; CUMBERLAND FARMS, INC., A DELAWARE CORPORATION; FIRST AMERICAN TITLE INSURANCE COMPANY.
8) THE HORIZONTAL POSITIONAL ACCURACY OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.2'. THE VERTICAL ACCURACY OF ELEVATIONS OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.1'.
9) THIS SITE CONTAINS NO MARKED PARKING SPACES.
10) THIS SURVEY WAS PREPARED WITH BENEFIT OF AN OWNERSHIP AND ENCUMBRANCE REPORT, FILE No. NCS-869444-1-HOU, PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, WITH AN EFFECTIVE DATE OF NOVEMBER 9TH, 2017 @ 8:00 A.M.

THE FOLLOWING ITEMS ARE EXCEPTIONS IN SCHEDULE B-II OF SAID COMMITMENT:

ITEMS 1, 2, 3, 4, 5, 6, 7 & 8–STANDARD EXCEPTIONS NOT ADDRESSED.

ITEM 9–RESTRICTIONS, DEDICATIONS, CONDITIONS, RESERVATIONS, EASEMENTS AND OTHER MATTERS IN PLAT BOOK 144, PAGE 2; AS AFFECTED BY EASEMENT TO FLORIDA POWER & LIGHT COMPANY IN O.R.B. 15766, PAGE 365; AS FURTHER AFFECTED BY EASEMENT IN O.R.B. 20571, PAGE 1 APPLY TO THIS SITE AS DEPICTED HEREON. O.R.B. 18448, PAGE 19 DOES NOT APPLY TO THIS SITE (THERE MAY BE A TYPO IN THE COMMITMENT).

ITEM 10–TERMS, PROVISIONS AND CONDITIONS IN RESOLUTION DESIGNATING AREA OF OPERATION OF BOARD COUNTY WATER AND SEWER SYSTEM NO. 3 IN O.R.B. 3843, PAGE 410; AS MODIFIED BY RESOLUTION CORRECTING RESOLUTION DESIGNATING AREA OF OPERATION OF BROWARD COUNTY WATER AND SEWER SYSTEM NO. 3 IN O.R.B. 4442, PAGE 847 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 11–TERMS, PROVISIONS AND CONDITIONS IN ORDINANCE NO. 88-82 IN O.R.B. 16065, PAGE 877; AS MODIFIED BY NOTICE OF ADOPTION OF DEVELOPMENT ORDER IN O.R.B. 17557, PAGE 491; AS MODIFIED BY AFFIDAVIT IN O.R.B. 17599, PAGE 35; AS MODIFIED BY NOTICE OF AMENDMENT OF DEVELOPMENT ORDER IN O.R.B. 23610, PAGE 81 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 12–TERMS AND CONDITIONS OF THE FINISHED WATER FOR RESALE AGREEMENT IN O.R.B. 16562 PAGE 454 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 13–TERMS AND CONDITIONS OF THE LARGE USER WASTEWATER TRANSMISSION AGREEMENT IN O.R.B. 16562, PAGE 473 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 14–TERMS AND CONDITIONS OF THE MEMORANDUM OF DEVELOPMENT AGREEMENT AND AGREEMENT ESTABLISHING OPTION RIGHTS AND RESTRICTIONS ON DEVELOPMENT IN O.R.B. 16636, PAGE 113; AS AFFECTED BY FIRST AMENDMENT DEVELOPMENT AGREEMENT AND AGREEMENT ESTABLISHING OPTIONS RIGHTS AND RESTRICTIONS ON DEVELOPMENT IN O.R.B. 20718, PAGE 861 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 15–NOTICE OF ADOPTION OF DEVELOPMENT ORDER IN O.R.B. 17557, PAGE 491 APPLIES TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 16–TERMS AND CONDITIONS OF THE REVOCABLE LICENSE AGREEMENT IN O.R.B. 18177, PAGE 1 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 17–EASEMENT IN O.R.B. 20571, PAGE 1 APPLIES TO THIS SITE AS DEPICTED HEREON.

ITEM 18–DECLARATION OF COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS, IN O.R.B. 21694, PAGE 570, AS AFFECTED BY AMENDMENT TO DECLARATION OF COVENANTS, RESTRICTIONS AND EASEMENTS FOR PORT 95 COMMERCE PARK IN O.R.B. 31464, PAGE 1132; AS FURTHER AFFECTED BY AMENDMENT TO DECLARATION OF COVENANTS, RESTRICTIONS AND EASEMENTS FOR PORT 95 COMMERCE PARK IN O.R.B. 31464, PAGE 1135 APPLIES TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 19–TERMS AND CONDITIONS OF THE AGREEMENT REGARDING ALLOCATION OF DEVELOPMENT RIGHTS IN O.R.B. 30127, PAGE 868 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

ITEM 20–COVENANTS, CONDITIONS AND RESTRICTIONS IN QUIT CLAIM DEED IN O.R.B. 45702, PAGE 349 APPLY TO THIS SITE BUT CANNOT BE PLOTTED.

LEGEND

	CONCRETE
	ASPHALT PAVEMENT
20.00'	ELEVATION
— OHW —	OVERHEAD WIRES
℄	CENTERLINE
O.R.B.	OFFICIAL RECORDS BOOK
F.D.O.T.	FLORIDA DEPT. OF TRANSPORTATION
TP	TRAVERSE POINT (FOR FIELD INFORMATION ONLY)
PRM	PERMANENT REFERENCE MONUMENT
—I—	CITY LIMITS LINE
—/—/—	NON-VEHICULAR ACCESS LINE
—STM—	UNDERGROUND DRAINAGE LINE
—SAN—	UNDERGROUND SEWER LINE
—t—	UNDERGROUND ELECTRIC LINE
—w—	UNDERGROUND WATER LINE
R	RADIUS
CA	CENTRAL ANGLE
A	ARC LENGTH
R/W	RIGHT-OF-WAY
FPL	FLORIDA POWER & LIGHT COMPANY
	UNIDENTIFIED TREE
	OAK TREE
	CABBAGE PALM

CERTIFICATION

TO THOMAS ENGINEERING GROUP; FIRST AMERICAN TITLE INSURANCE COMPANY; CUMBERLAND FARMS:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 7(a), 8, 9, 10, 11 OF TABLE A THEREOF.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

☐ JOHN F. PULICE, PROFESSIONAL SURVEYOR AND MAPPER LS2691
☐ BETH BURNS, PROFESSIONAL SURVEYOR AND MAPPER LS6136
☐ VICTOR R. GILBERT, PROFESSIONAL SURVEYOR AND MAPPER LS6274
STATE OF FLORIDA

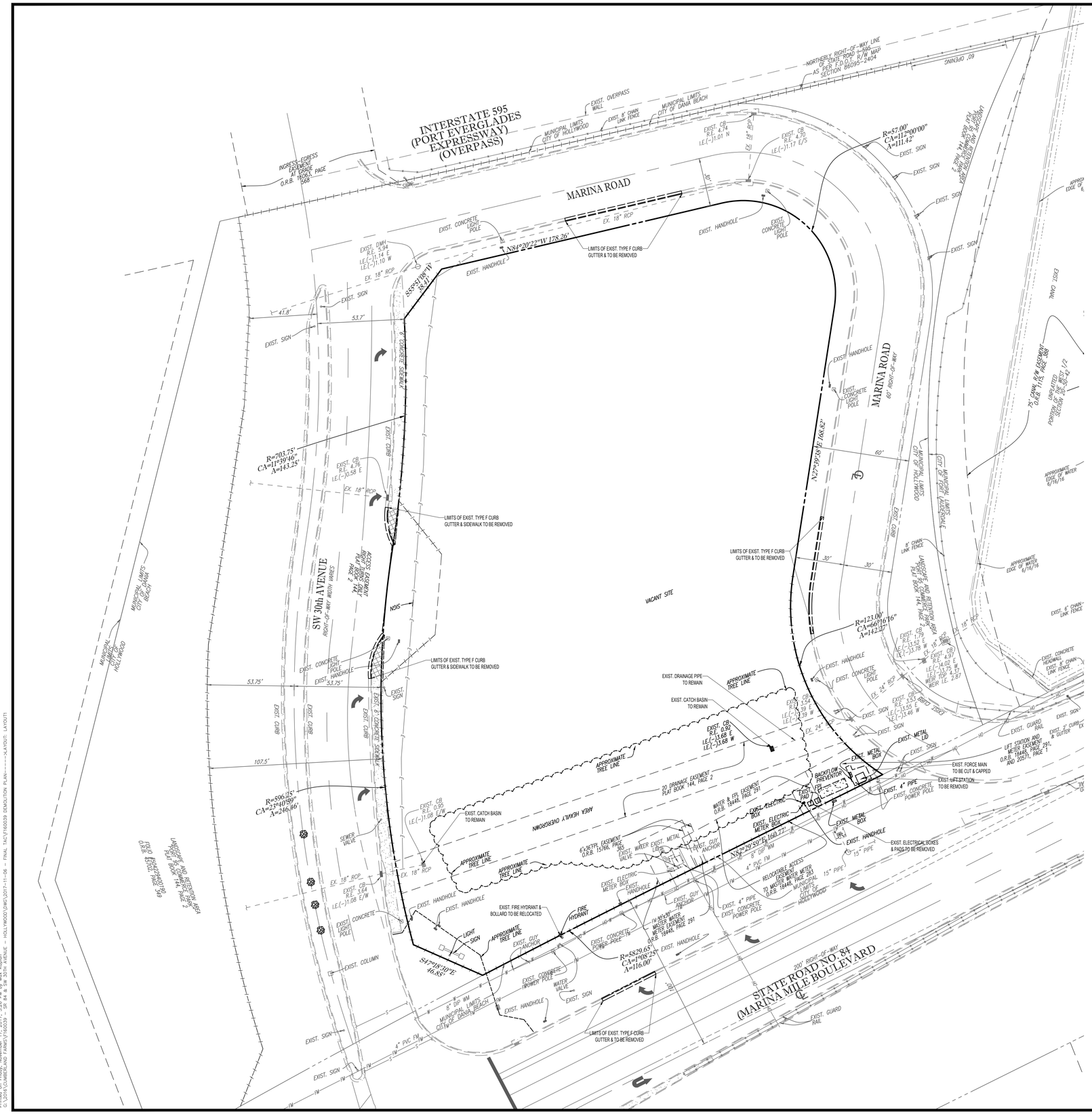
NO.	REVISIONS	BY
5		
4		
3		
2		
1		

PROPOSED
CUMBERLAND FARMS SITE
WEST STATE ROAD NO. 84
HOLLYWOOD, BROWARD COUNTY
FLORIDA 33312

BOUNDARY AND TOPOGRAPHIC SURVEY
ALTA/NSPS LAND TITLE SURVEY

PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777
FAX: (954) 572-1778
E-MAIL: surveys@pulicelandsurveyors.com
CERTIFICATE OF AUTHORIZATION LB#3870

DRAWN BY: L.S.	SCALE: 1" = 30'	FILE: THOMAS ENGINEERING GROUP
CHECKED BY: J.F.P.	SURVEY DATE: 11/14/17	ORDER NO.: 63238



CONTRACTOR SHALL REFER TO LANDSCAPE PLANS FOR TREE REMOVAL/RELOCATION.

30 15 7.5 0 30
1"= 30'

DEMOLITION NOTES:

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:
   PULICE LAND SURVEYORS
   5381 NOB HILL ROAD
   SUNRISE, FLORIDA 33351
   DATED: 6/12/17

2. THOMAS ENGINEERING GROUP, LLC IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION.

3. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO THOMAS ENGINEERING GROUP, LLC IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.

4. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:

   A. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL LOCATION CERTIFICATION PRIOR TO ANY EXCAVATION OR DEMOLITION. THE NUMBER IS 1-800-432-4770.

   B. ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.

   C. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.

   D. LOCATE/CAP ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE.

   E. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEM THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.

   F. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.

   G. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.

   H. A COMPLETE INSPECTION OF CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY, OF ALL BUILDINGS AND/OR STRUCTURES TO BE REMOVED. SAME SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ANY/ALL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK INCLUDING HAZARDOUS MATERIAL, SOILS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS THE SOLE RESPONSIBILITY OF THE OWNER'S ENVIRONMENTAL CONSULTANT. THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE.

5. SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY.

6. TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.

7. IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.

8. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.

9. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL," AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS - OF - WAY.

10. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.

11. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.

12. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.

13. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.

14. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.

15. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL CITY, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.

HATCH LEGEND

EXISTING ASPHALT AND CONCRETE PAVEMENT TO BE REMOVED

EXISTING CONCRETE & SIDEWALK TO BE REMOVED

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
1000 CORPORATE DR. SUITE 250 FT. LAUDERDALE, FL 33334 P: 954-202-7000
4950 W. KENNEDY BLVD. SUITE 600 TAMPA, FL 33609 P: 813-379-4100
125 W INDIANTOWN RD. SUITE 206 JUPITER, FL 33458 P: 561-203-7593

THE INFORMATION, DESIGN, AND CONTENT OF THIS PLAN, ARE PROPRIETARY AND SHALL NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THOMAS ENGINEERING GROUP, LLC. ONLY APPROVED, SIGNED AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES.

REVISIONS:

REV:	DATE:	COMMENT:	BY:

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039 DEMOLITION PLAN

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

CUMBERLAND FARMS, INC.

CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

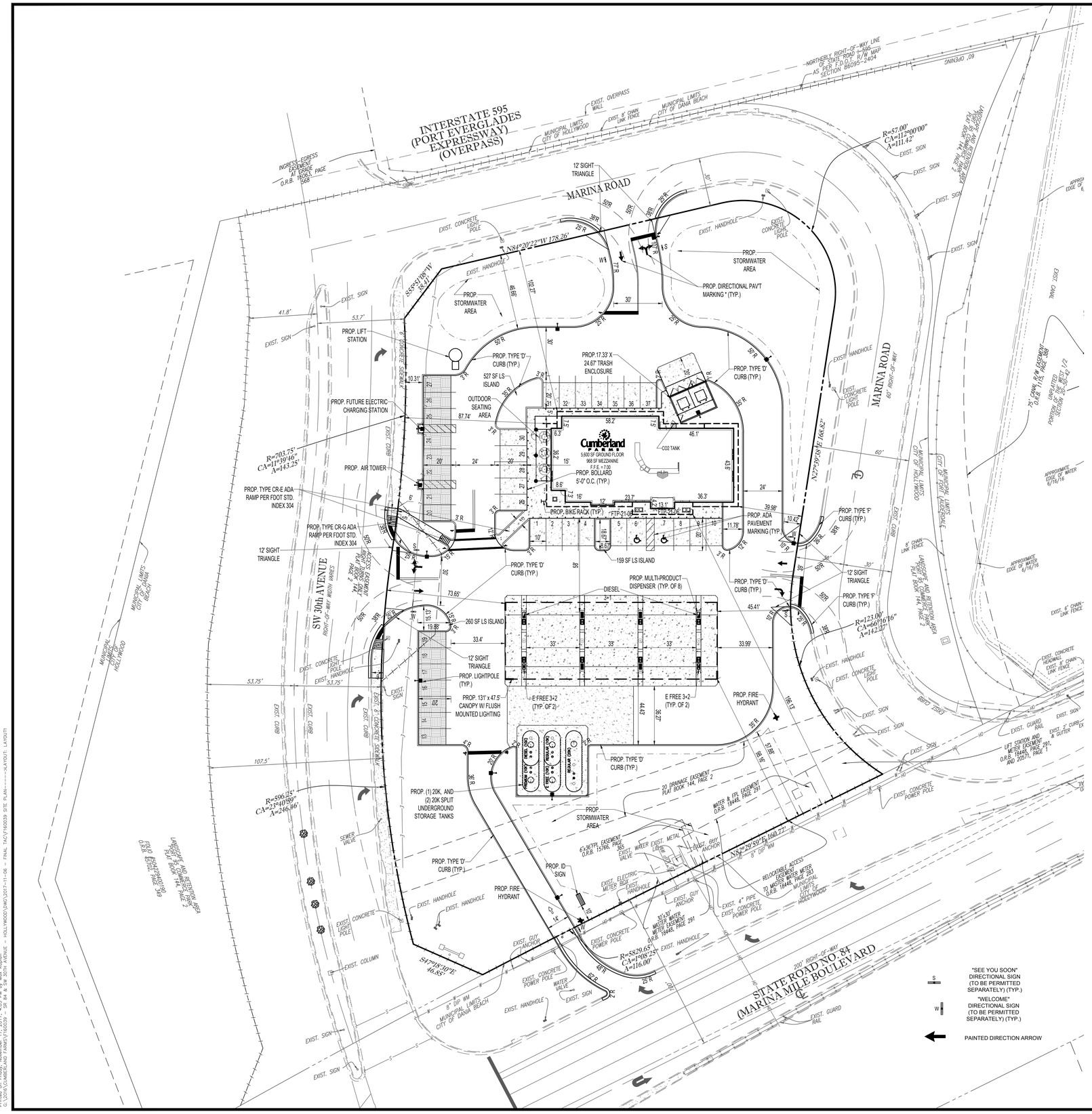
SHEET TITLE:

DEMOLITION PLAN

SHEET NUMBER:

CFG03.0

Printed on Friday, November 17, 2017 - 3:26 PM by Alex Kaplan
G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039 DEMOLITION PLAN-------XLAYOUT: LAYOUT1



SITE DATA

JURISDICTION: CITY OF HOLLYWOOD

ZONING DISTRICT: C-4 – MEDIUM/HIGH INTENSITY COMMERICAL DISTRICT

LAND USE INFORMATION:
- DESIGNATION: COMMERCIAL
- CURRENT USE: VACANT
- PROPOSED USE: COMMERCIAL – SERVICE STATION W/ 16 PUMPS; CONVENIENCE STORE (ACCESSORY USE)

WATER/WASTEWATER SERVICE PROVIDER: BROWARD COUNTY WATER WASTEWATER SERVICES

SITE AREA:

GROSS AREA	108,136 S.F	2.48 AC.
R/W DEDICATION	0 S.F	0.00 AC.
NET AREA	108,136 S.F	2.48 AC.

BUILDING AREA:

GROUND FLOOR AREA	5,600 S.F.
MEZZANINE AREA:	968 S.F.
GROSS FLOOR AREA:	6,568 S.F.

DIMENSION REGULATIONS:

	REQUIRED	PROPOSED
SET BACKS:		
FRONT – NORTH (FEET):	15	196.13 (BUILDING) 98.16 (CANOPY)
SIDE – EAST (FEET):	15	87.74 (BUILDING) 73.65 (CANOPY)
SIDE – WEST (FEET):	15	39.98 (BUILDING) 45.41 (CANOPY)
REAR – SOUTH (FEET):	15	102.27
BUILDING HEIGHT	175' MAX	33.33'
CANOPY HEIGHT		21.00'

	EXISTING			PROPOSED			CHANGE	
IMPERVIOUS:	S.F.	ACRES	%	S.F.	ACRES	%	S.F.	ACRES
BUILDING	0	0.00	0.0%	5,600	0.13	5.2%	(+)5,600	(+)0.13
PAVEMENT	0	0.00	0.0%	50,074	1.15	46.4%	(+)50,074	(+)1.15
SIDEWALK/CURB	0	0.00	0.0%	4,834	0.11	4.4%	(+)4,834	(+)0.11
TOTAL	0	0.00	0.0%	60,508	1.39	56.0%	(+)60,508	(+)1.39
PERVIOUS:	108,136	2.48	100.0%	47,628	1.09	44.0%	(+)60,508	(+)1.39
TOTAL	108,136	2.48	100.0%	108,136	2.48	100.0%	0	0

LANDSCAPE BUFFER:

	REQUIRED	PROPOSED
FRONT – NORTH (FEET):	10	57.88
SIDE – EAST (FEET):	10	10.31
SIDE – WEST (FEET):	10	10.42
REAR – SOUTH (FEET):	10	46.66

PARKING DATA

REQUIRED:

USE	AREA	RATIO	AMOUNT
CUMBERLAND FARMS	6,568 S.F.	1 SPACE/ 250	27 SPACES

PROVIDED:

TYPE	AMOUNT
STANDARD SPACES	35
ACCESSIBLE SPACES	2
TOTAL SPACES	37

LOADING ZONE:
LESS THAN 10,000 S.F. – NO LOADING SPACE REQUIRED

HATCH LEGEND / KEY

- PROPOSED PERVIOUS CONCRETE PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- EXISTING CONCRETE SIDEWALK TO REMAIN

NOTE:

THE MAXIMUM FOOT-CANDLE LEVEL AT ANY PROPERTY LINE ADJACENT TO A RESIDENTIALLY ZONED DISTRICT SHALL BE 0.5 FOOT-CANDLES

LEGAL DESCRIPTION

PARCEL A, OF "PORT 95 COMMERCE PARK", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 144, PAGE 2, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

GREEN BUILDING PRACTICES IMPLEMENTED:

1. BICYCLE STORAGE
2. RECYCLING - DEDICATED AREA FOR COLLECTING RECYCLEDMATERIALS
3. RADIANT BARRIER - ENERGY STAR QUALIFIED - APPLIED TOATTIC OR CRAWLSPACE
4. ENERGY EFFICIENT (LOW E) WINDOWS
5. ENERGY STAR APPROVED ROOFING MATERIALS
6. PROGRAMMABLE THERMOSTATS
7. OCCUPANCY/VACANCY SENSORS
8. AT LEAST 80% OF PLANTS, TREES AND GRASSES PER THE SOUTH FLORIDA WATER MANAGEMENT DISTRICTRECOMMENDATIONS (LATEST EDITION)
9. ALL ENERGY-EFFICIENT OUTDOOR LIGHTING
10. ALL HOT WATER PIPES INSULATED
11. ELECTRIC VEHICLE-CHARGING-STATION INFRASTRUCTURE
12. PERVIOUS PAVEMENT

NOTE:
ALL SIGNAGE SHALL BE IN COMPLIANCE WITH THE ZONING AND LAND DEVELOPMENT REGULATIONS

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
1000 CORPORATE DR. SUITE 250 FT. LAUDERDALE, FL 33334 P: 954-202-7000
4950 W. KENNEDY BLVD. SUITE 600 TAMPA, FL 33609 P: 813-379-4100
125 W.INDIANTOWN RD. SUITE 206 JUPITER, FL 33468 P: 561-203-7503

THE INFORMATION, DESIGN, AND CONTENT OF THIS PLAN, ARE PROPRIETARY AND SHALL NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THOMAS ENGINEERING GROUP, LLC. ONLY APPROVED, SIGNED AND SEALED PLANS SHALL BE UTILIZED FOR CONSTRUCTION PURPOSES.

REVISIONS:

REV:	DATE:	COMMENT:	BY:

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039 SITE PLAN

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

CUMBERLAND FARMS, INC.

CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

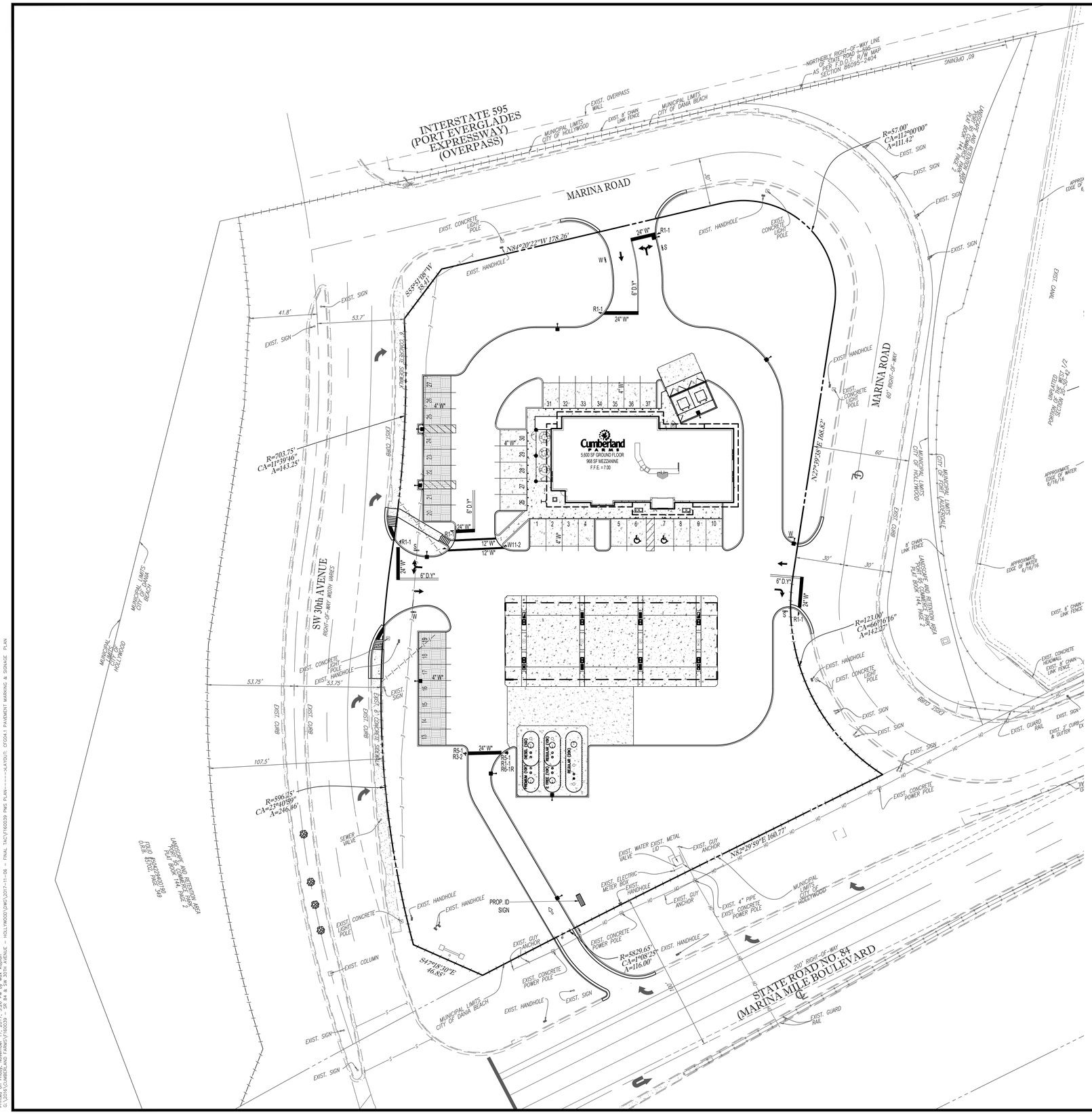
SHEET TITLE:

SITE PLAN

SHEET NUMBER:

CFG04.0

Printed on Friday, November 17, 2017 - 4:03 PM by Alex Kaplan
C:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039 SITE PLAN------>ALAYOUT1, LAYOUT1



LEGEND

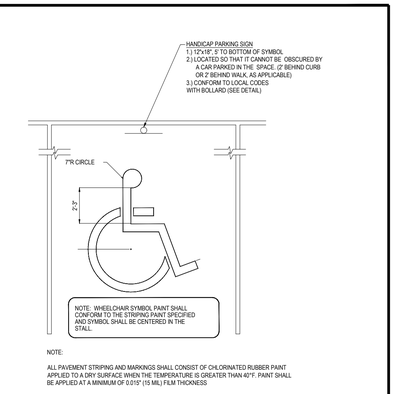
R1-1	STOP SIGN (30" x 30")
R3-5R	RIGHT TURN ONLY
R5-1	DO NOT ENTER SIGN (30" x 30")
R6-1L	ONE WAY
R6-1R	ONE WAY
FTP 21-06	ACCESSIBLE PARKING
D.Y.	DOUBLE YELLOW
W	WHITE
*	THERMOPLASTIC

30 15 7.5 0 30
1"= 30'

NOTE:

1) ALL STRIPING AND SIGNAGE SHALL MEET THE M.U.T.C.D. LATEST EDITION.

2) ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION, SHALL BE RESTORED.

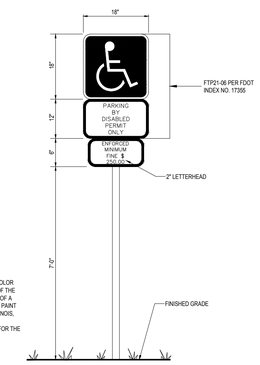


NOTE:

ALL PAVEMENT STRIPING AND MARKINGS SHALL CONSIST OF CHLORINATED RUBBER PAINT APPLIED TO A DRY SURFACE WHEN THE TEMPERATURE IS GREATER THAN 40°F. PAINT SHALL BE APPLIED AT A MINIMUM OF 0.015" (15 MIL) FILM THICKNESS

ADA ACCESIBLE PARKING STALL PAINTING DETAIL

N.T.S.

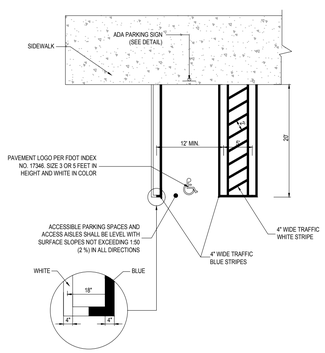


NOTES

1. HANDICAPPED SIGN WILL BE OF A D.O.T. (BLUE) COLOR PAVEMENT BORDER LINES (ONE ON EACH SIDE) OF THE HANDICAPPED SPACE WILL BE OF A BLUE COLOR OF A QUALITY EQUIVALENT TO SUPER STRIPE TRAFFIC PAINT SOLD BY FOX VALLEY SYSTEMS INC. OF CARY ILLINOIS. PHONE 1-800-323-4770 SHALL BE STRIPED ON THE WEARING SURFACE OF EACH SPACE DESIGNED FOR THE HANDICAPPED SPACE.

2 ACCESSIBLE PARKING SIGN

SCALE: NONE



1 ACCESSIBLE PARKING & TYPICAL STRIPING SPACE

SCALE: NONE

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
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MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

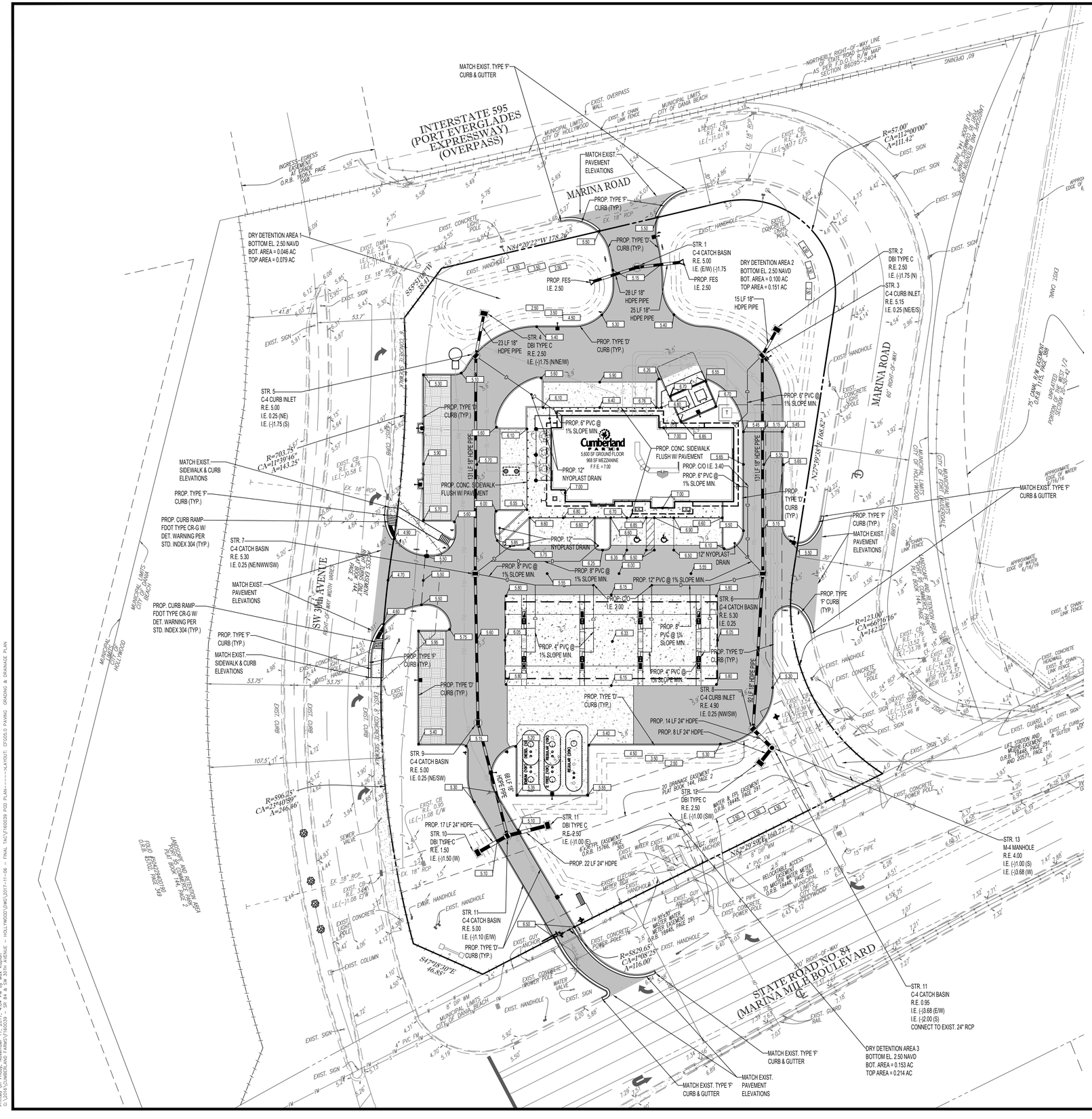
SHEET TITLE:

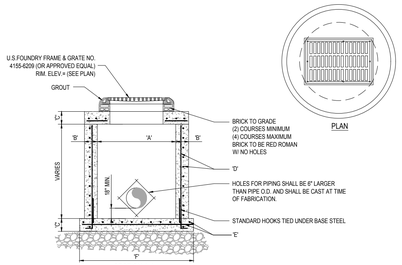
PAVEMENT MARKING & SIGNAGE PLAN

SHEET NUMBER:

CFG04.1

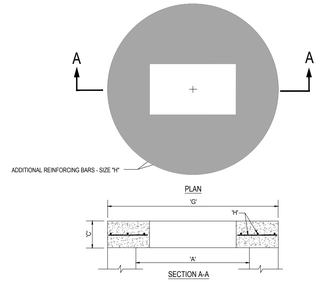
Printed on Friday, November 17, 2017, 3:26 PM by Max Gordon
G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30th AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039 PMS PLAN-----<LAYOUT: CFG04.1 PAVEMENT MARKING & SIGNAGE PLAN


INTERSTATE 595
(PORT EVERGLADES
EXPRESSWAY
(OVERPASS)
MARINA ROAD
SW 30th AVENUE
STATE ROAD NO. 84
(MARINA MILE BOULEVARD)
Cumberland
FARMS
5,600 SF GROUND FLOOR
968 SF MEZZANINE
F.F.E. = 7.00
DRY DETENTION AREA 1
BOTTOM EL. 2.50 NAVD
BOT. AREA = 0.046 AC
TOP AREA = 0.079 AC
DRY DETENTION AREA 2
BOTTOM EL. 2.50 NAVD
BOT. AREA = 0.100 AC
TOP AREA = 0.151 AC
DRY DETENTION AREA 3
BOTTOM EL. 2.50 NAVD
BOT. AREA = 0.153 AC
TOP AREA = 0.214 AC
MATCH EXIST. TYPE 'F' CURB & GUTTER
MATCH EXIST. PAVEMENT ELEVATIONS
MATCH EXIST. SIDEWALK & CURB ELEVATIONS
PROP. CURB RAMP FDOT TYPE CR-G W/ DET. WARNING PER STD. INDEX 304 (TYP.)
PROP. CONC. SIDEWALK FLUSH W/ PAVEMENT
PROP. TYPE 'D' CURB (TYP.)
PROP. TYPE 'F' CURB (TYP.)
PROP. 12" NYOPLAST DRAIN
PROP. 6" PVC @ 1% SLOPE MIN.
PROP. 8" PVC @ 1% SLOPE MIN.
PROP. 12" PVC @ 1% SLOPE MIN.
PROP. 4" PVC @ 1% SLOPE MIN.
PROP. 4" PVC @ 1% SLOPE MIN.
PROP. 14 LF 24" HDPE
PROP. 8 LF 24" HDPE
PROP. 17 LF 24" HDPE
PROP. 22 LF 24" HDPE
STR. 1 C-4 CATCH BASIN R.E. 5.00 I.E. (E/W) (-)1.75
STR. 2 DBI TYPE C R.E. 2.50 I.E. (-)1.75 (N)
STR. 3 C-4 CURB INLET R.E. 5.15 I.E. 0.25 (NE/E/S)
STR. 4 DBI TYPE C R.E. 2.50 I.E. (-)1.75 (N/NE/W)
STR. 5 C-4 CURB INLET R.E. 5.00 I.E. 0.25 (NE) I.E. (-)1.75 (S)
STR. 6 C-4 CATCH BASIN R.E. 5.30 I.E. 0.25
STR. 7 C-4 CATCH BASIN R.E. 5.30 I.E. 0.25 (NE/NW/SW)
STR. 8 C-4 CURB INLET R.E. 4.90 I.E. 0.25 (NW/SW)
STR. 9 C-4 CATCH BASIN R.E. 5.00 I.E. 0.25 (NE/SW)
STR. 10 DBI TYPE C R.E. 1.50 I.E. (-)1.50 (W)
STR. 11 DBI TYPE C R.E. 2.50 I.E. (-)1.00 (E)
STR. 11 C-4 CATCH BASIN R.E. 5.00 I.E. (-)1.10 (E/W)
STR. 11 C-4 CATCH BASIN R.E. 0.95 I.E. (-)3.68 (E/W) I.E. (-)2.00 (S) CONNECT TO EXIST. 24" RCP
STR. 12 DBI TYPE C R.E. 2.50 I.E. (-)1.00 (SW)
STR. 13 M-4 MANHOLE R.E. 4.00 I.E. (-)1.00 (S) I.E. (-)3.68 (W)
PROP. FES I.E. 2.50
28 LF 18" HDPE PIPE
25 LF 18" HDPE PIPE
15 LF 18" HDPE PIPE
23 LF 18" HDPE PIPE
131 LF 18" HDPE PIPE
88 LF 18" HDPE PIPE
PROP. CO I.E. 2.00
PROP. 8" PVC @ 1% SLOPE MIN.
PROP. 8" PVC @ 1% SLOPE MIN.
PROP. 12" NYOPLAST DRAIN
PROP. CONC. SIDEWALK FLUSH W/ PAVEMENT
PROP. CO I.E. 3.40
PROP. 8" PVC @ 1% SLOPE MIN.
PROP. TYPE 'F' CURB (TYP.)
PROP. TYPE 'D' CURB (TYP.)
MATCH EXIST. PAVEMENT ELEVATIONS
MATCH EXIST. SIDEWALK & CURB ELEVATIONS
MATCH EXIST. TYPE 'F' CURB & GUTTER
MATCH EXIST. PAVEMENT ELEVATIONS
MATCH EXIST. TYPE 'F' CURB & GUTTER
MATCH EXIST. TYPE 'F' CURB & GUTTER
MATCH EXIST. PAVEMENT ELEVATIONS
R=703.75' CA=11°39'46" A=143.25'
R=57.00' CA=112°00'00" A=111.42'
R=123.00' CA=60°16'16" A=142.07'
R=596.25' CA=23°40'59" A=246.46'
R=5829.65' CA=1°08'23" A=116.00'
S55°51'00"W 19.84'
N84°20'22"W 178.26'
N27°59'28"E 168.82'
N88°29'50"E 160.77'
S47°18'30"E 46.85'
EXIST. OVERPASS
EXIST. 8' CHAIN LINK FENCE
MUNICIPAL LIMITS CITY OF DANIA BEACH
MUNICIPAL LIMITS CITY OF HOLLYWOOD
NORTHERLY RIGHT-OF-WAY LINE OF STATE ROAD 84 AS PER F.D.O.T. R/W MAP SECTION 86095-2404
INGRESS-EGRESS EASEMENT AT GRADE PAGE O.R.B. 15052, PAGE 368
20 DRAINAGE EASEMENT PLAT BOOK 144, PAGE 2
WATER & EFL EASEMENT O.R.B. 18445, PAGE 291
LIFT STATION AND WATER EASEMENT O.R.B. 18445, PAGE 291 AND 20577, PAGE 1
RELOCABLE ACCESS EASEMENT TO MASTER WATER METER O.R.B. 18445, PAGE 291
LANDSCAPE AND RETENTION AREA PLAT BOOK 144, PAGE 2
EXIST. CONCRETE SIDEWALK
EXIST. CURB
EXIST. HANDHOLE
EXIST. CONCRETE LIGHT POLE
EXIST. CONCRETE POWER POLE
EXIST. SIGN
EXIST. GUARD RAIL
EXIST. COLUMN
EXIST. 6' CHAIN LINK FENCE
EXIST. 24" RCP
EXIST. 15" PIPE
EXIST. 4" PVC FM
EXIST. 8" PVC FM
EXIST. 8" WM
EXIST. 4" WM
EXIST. 15" PVC FM
EXIST. WATER METER
EXIST. WATER VALVE
EXIST. SEWER VALVE
EXIST. ELECTRIC METER BOX
EXIST. GUY ANCHOR
EXIST. METAL LIGHT POLE
EXIST. CONCRETE HEADWALL
EXIST. 6' CHAIN LINK FENCE
EXIST. 2' CURB & GUTTER
EXIST. 6" CURB & GUTTER
EXIST. 24" RCP
EXIST. 18" RCP
EXIST. CB R.E. 4.74 I.E.(-)1.01 N
EXIST. CB R.E. 4.76 I.E.(-)0.58 E
EXIST. CB R.E. 5.94 I.E.(-)0.94 W
EXIST. CB R.E. 5.94 I.E.(-)1.08 E/W
EXIST. CB R.E. 5.70 I.E.(-)1.70 E/S
EXIST. CB R.E. 4.71 I.E.(-)3.78 E
EXIST. CB R.E. 4.71 I.E.(-)3.78 W
EXIST. CB R.E. 4.64 I.E.(-)3.73 E
WEIR TOP EL. 4.97 WEIR I.E. 2.87
EXIST. CB R.E. 4.39 I.E.(-)3.39 W
EXIST. CB R.E. 4.39 I.E.(-)3.46 W
EXIST. CB R.E. 4.05 I.E.(-)3.05 E
EXIST. CB R.E. 4.05 I.E.(-)3.05



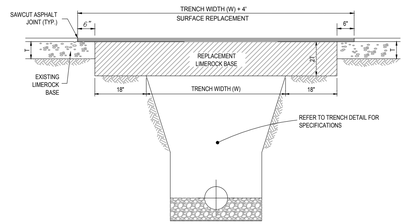
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2- W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø

1 PRECAST CIRCULAR CATCH BASIN
SCALE: NONE



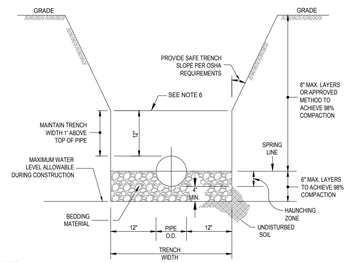
TYPE	"A"	"C"	"G"	"H"
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 6" C.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

2 PRECAST CONCRETE-TOP SLAB
SCALE: NONE



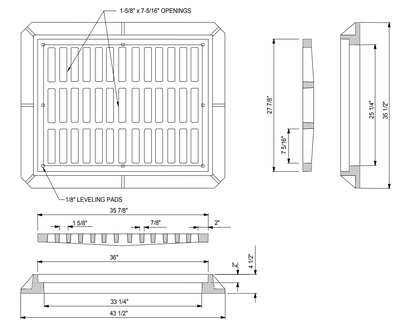
NOTES:
1. REPLACED BASE MATERIAL OVER TRENCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE, MINIMUM 8", MAXIMUM 18".
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM (LOOSE MEASUREMENT) LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180.
3. SUBGRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
4. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED PARALLEL TO OR PERPENDICULAR TO THE ROADWAY.
5. SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED.
6. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE SURROUNDING SURFACE (MINIMUM 1" THICKNESS).
7. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70% (60% FOR LOCAL STREETS).
8. IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH A PERMANENT PATCH.

3 PAVEMENT RESTORATION DETAIL
SCALE: NONE



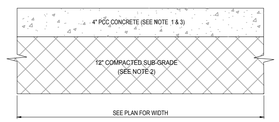
NOTES:
1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.
2. BEDDING MATERIAL SHALL CONSIST OF WELL GRADED ASTM C33 #67 ROCK (3/4" TO No.4) AND BE PLACED TO SPRING LINE OF PIPE.
3. BACKFILL MATERIAL SHALL BE FREE OF MUCK, STUMPS, ROOTS, ROCKS OR OTHER MATERIAL UNACCEPTABLE TO ENGINEER.
4. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
5. REFER TO SPECIFICATIONS FOR EXCAVATION IN MUCK OR OTHER UNSUITABLE MATERIAL.
6. COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180.
7. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL (WITHIN 12" OF TOP OF PIPE).
8. THOROUGHLY WORK IN AND TAMP THE BEDDING MATERIAL IN THE HAUNCHING ZONE BEFORE PLACING AND COMPACTING REMAINDER OF BACKFILL.

4 TRENCH DETAIL
SCALE: NONE



NOTE:
1. GRATE TO BE TYPE U.S.F. No. 4155-6209

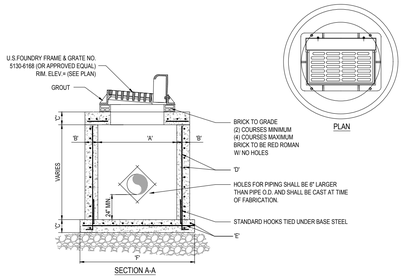
5 FRAME AND GRATE DETAIL
SCALE: NONE



FOR SIDEWALK ALONG WILES ROAD WITHIN BROWARD COUNTY RIGHT-OF-WAY, REFER TO BROWARD COUNTY MINIMUM STANDARDS 6-1.14 TYPICAL DETAIL DWG NO. 14 (REV 06/01/15). CONCRETE IS TO BE 6" MINIMUM WITHIN THE COUNTY R/W CLASS I 3,000 PSI COMPACTED TO 100% MAX. DENSITY PER AASHTO T-99

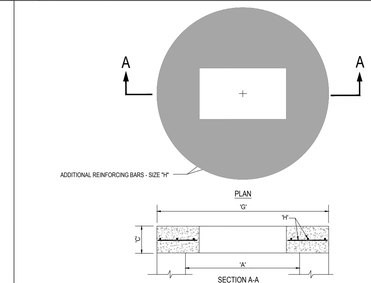
NOTES:
1. SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".
2. 12" SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. (T-180)
3. T-180, CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
4. SIDEWALK REMOVAL & REPLACEMENTS TO CONSIST OF FULL FLAGS.
5. PROVIDE EXPANSION JOINT (TYPE 'A') AT CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALK.
6. PROVIDE FIBEROUS JOINTS 20' O.C.

6 TYPICAL CONCRETE SIDEWALK SECTION
SCALE: NONE



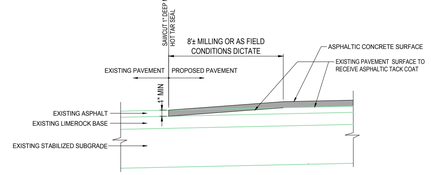
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2- W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø

7 PRECAST CIRCULAR CURB INLET
SCALE: NONE

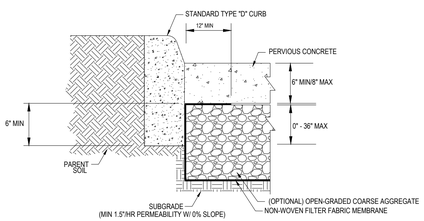


TYPE	"A"	"C"	"G"	"H"
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 6" C.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

8 PRECAST CONCRETE-TOP SLAB
SCALE: NONE

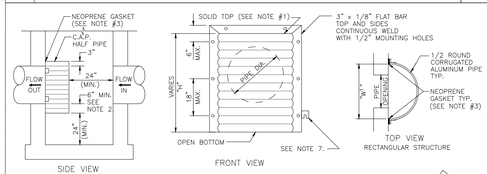


9 ASPHALT CONNECTION TO EXIST.
SCALE: NONE



PERVIOUS CONCRETE DETAIL
N.T.S

10 PERVIOUS CONCRETE PAVEMENT DETAIL
SCALE: NONE

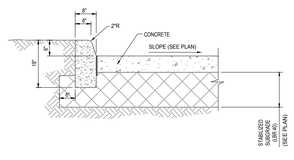


PIPE DIA.	W[1] (IN)	W[2] (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

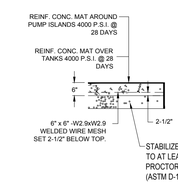
1. RECTANGULAR STRUCTURE
2. ROUND STRUCTURE

NOTES:
1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 2' BELOW CONTROL ELEVATION.
3. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
4. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
5. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A CATCH BASIN (SEE EXFILTRATION TRENCH DETAIL).
6. FIBERGLASS BAFFLES ARE NOT PERMITTED.
7. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

12 POLLUTION RETARDENT BAFFLE DETAIL
SCALE: NONE

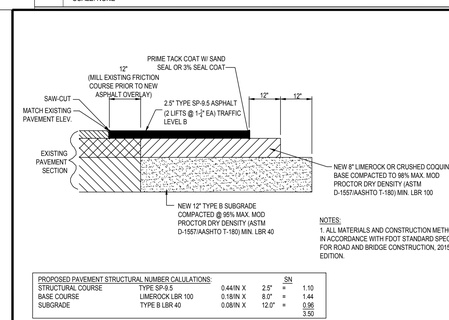


13 CONCRETE CURB (TYPE 'D') DETAIL
SCALE: NONE



NOTE: CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT SPECIFICATIONS.

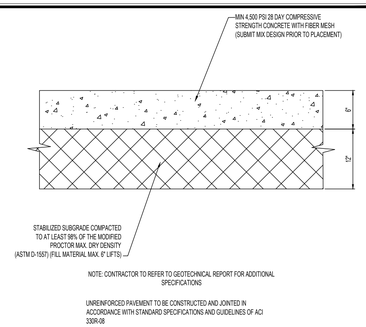
6" CONCRETE (CANOPY PAD) DETAIL
N.T.S.



PROPOSED PAVEMENT STRUCTURAL NUMBER CALULATIONS:					SN
STRUCTURAL COURSE	TYPE SP-9.5				
BASE COURSE	LIMEROCK LBR 100	0.18/IN X	2.5"	=	1.10
SUBGRADE	TYPE B LBR 40	0.08/IN X	12.0"	=	1.44
					0.96
					3.50

NOTES:
1. ALL MATERIALS AND CONSTRUCTION METHODS IN ACCORDANCE WITH FDOT STANDARD SPECS. FOR ROAD AND BRIDGE CONSTRUCTION, 2015 EDITION.

ASPHALT PAVEMENT SECTION AND TRANSITION
- FLORIDA ONLY -
N.T.S.

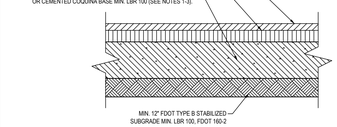


NOTE: CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SPECIFICATIONS

UNREINFORCED PAVEMENT TO BE CONSTRUCTED AND JOINTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND GUIDELINES OF ACI 330R-08

6" CONCRETE DETAIL (PARKING/DRIVE AISLE) - FLORIDA ONLY -
N.T.S.

NOTE:
FINAL CONCRETE AND PAVING DESIGNS SHALL BE SPECIFIED IN GEOTECHNICAL REPORT TO BE PROVIDED BY CUMBERLAND FARMS. IN ABSENCE OF A GEOTECHNICAL REPORT, CUMBERLAND FARMS SHALL APPROVE FINAL PAVEMENT AND MATERIALS SPECIFICATION, PRIOR TO CONSTRUCTION.



NOTES:
1. THE SOIL MUST HAVE A MOISTURE CONTENT DRY OF OPTIMUM AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D1557.
2. THE SOIL CAN BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D698.
3. THE SOIL SHALL NOT BE USED IF THE MATERIAL CONTAINS ORGANIC MATTER, RUBBLE, DEBRIS OR ANY OTHER DELETERIOUS MATERIAL.

TYPICAL PAVEMENT SECTION (FL ONLY)
N.T.S.

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REVISIONS:

REV:	DATE:	COMMENT:	BY:

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.: F160039
DRAWN BY: JFV
CHECKED BY: MAT
DATE: 11-20-2017
CAD I.D.: F160039 PGD DETAILS

PROJECT:
CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE
FOR
CUMBERLAND FARMS, INC.
CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
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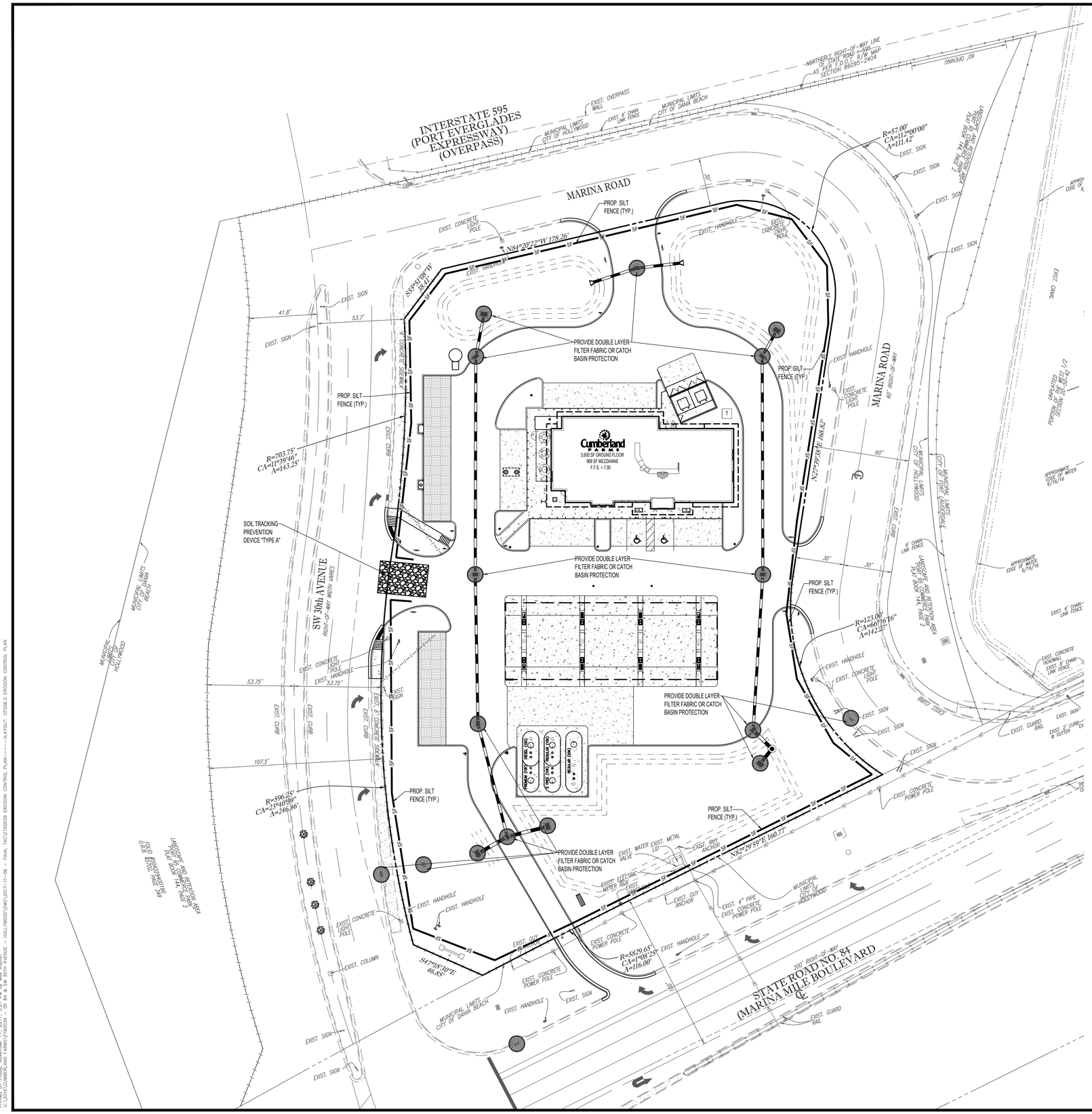
MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
PAVING, GRADING & DRAINAGE DETAILS

SHEET NUMBER:
CFG05.1

Printed on Friday, November 17, 2017, 3:27 PM by Max Kaplan
G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039 PGD DETAILS------XLAYOUT: CFG05.1 PAVING GRADING & DRAINAGE DETAILS



PLAN DESIGNATION CALLOUT

TRUCK RUBBLE STRIP AREA

PLAN VIEW

CATCH BASIN FABRIC

NOTE:
SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

SILT FENCE DETAIL

NOTES:

1.) SILT FENCE TO BE CONSTRUCTED WHEREVER OFFSITE AREAS ARE LOWER THAN ADJACENT ONSITE ELEVATIONS.

2.) CATCH BASIN FABRIC TO BE PLACED ON AREA INLETS SUBJECT TO SEDIMENTATION FROM THIS PROJECT.

3.) ALL EROSION CONTROL DEVICES SUCH AS RUBBLE STRIPS, SILT FENCE AND OTHER BMPS SHALL BE INSTALLED PRIOR. TO CONSTRUCTION.

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.: F160039
DRAWN BY: JFV
CHECKED BY: MAT
DATE: 11-20-2017
CAD I.D.:F160039 EROSION CONTROL PLAN

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

CUMBERLAND FARMS, INC.

CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
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MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:

EROSION CONTROL PLAN

SHEET NUMBER:

CFG06.0

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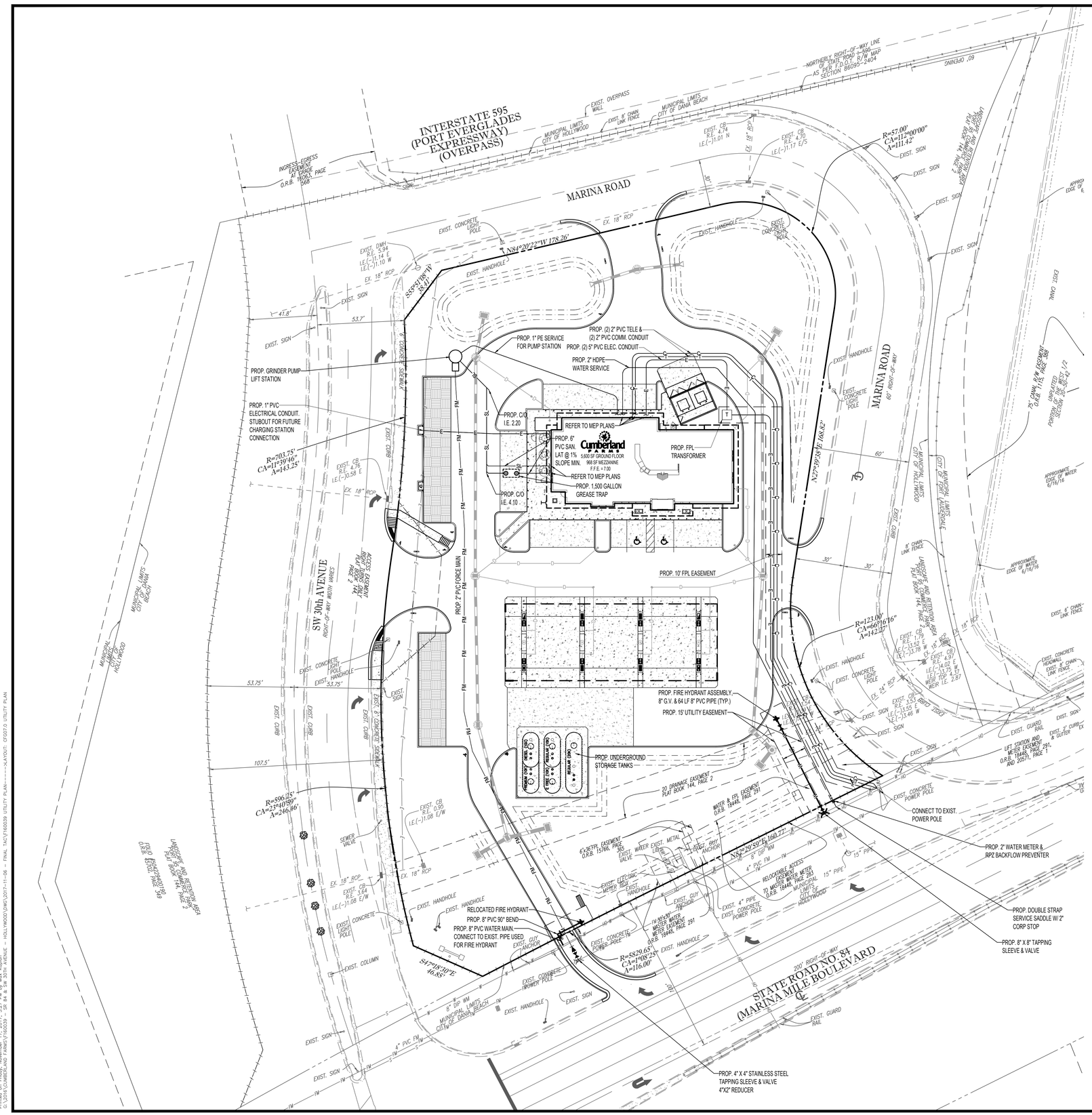
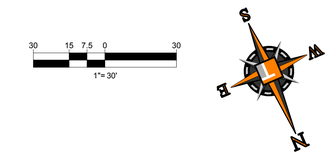
G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30th AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039 EROSION CONTROL PLAN------LAYOUT: CFG06.0 EROSION CONTROL PLAN





UTILITY LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
W	UNDERGROUND WATER LINE	
	UNDERGROUND ELECTRIC LINE	E
	UNDERGROUND TELEPHONE LINE	T
	SANITARY LATERAL	SL SL
	UNDERGROUND WATER LATERAL	WL WL
FM	SANITARY FORCE MAIN	FM FM
	UNDERGROUND COMMUNICATION LINE	C
E E	UNDERGROUND ELECTRIC LINE	E
	STORM SEWER	
S	SANITARY SEWER MAIN	
	HYDRANT	
OH OH OH	OVERHEAD WIRES	
C	OVERHEAD TRAFFIC WIRE	
	CATCH BASIN	
	WATER METER	
	CLEAN OUT	
	LIGHT POLE	

NOTES:

1. ALL ELEVATIONS ARE BASED ON REFERENCE NAVD 1988. ADD 1.59 TO CONVERT TO NGVD29.

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11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039 UTILITY PLAN

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

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CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

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November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:

UTILITY PLAN

SHEET NUMBER:

CFG07.0

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WATER NOTES:

1. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE.
2. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
3. AT ALL UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
4. NEW UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT TO BE DUCTILE IRON PIPE (D.I.P.) WHEN CROSSING BELOW SANITARY SEWER MAINS.
5. POLYETHYLENE ENCASEMENT MATERIAL SHALL BE USED TO ENCASE ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES, RODS, AND APPURTENANCES IN ACCORDANCE WITH AWWA C105, METHOD A. THE POLYETHYLENE TUBING SHALL BE CUT TWO FEET LONGER THAN THE PIPE SECTION AND SHALL OVERLAP THE ENDS OF THE PIPE BY ONE FOOT. THE POLYETHYLENE TUBING SHALL BE GATHERED AND LAPPED TO PROVIDE A SNUG FIT AND SHALL BE SECURED AT QUARTER POINTS WITH POLYETHYLENE TAPE. EACH END OF THE POLYETHYLENE TUBING SHALL BE SECURED WITH A WRAP OF POLYETHYLENE TAPE.
6. THE POLYETHYLENE TUBING SHALL PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT IS NOT INTENDED TO BE A COMPLETELY AIRTIGHT AND WATERTIGHT ENCLOSURE. DAMAGED POLYETHYLENE TUBING SHALL BE REPAIRED IN A WORKMANLIKE MANNER USING POLYETHYLENE TAPE, OR THE DAMAGED SECTION SHALL BE REPLACED. POLY WRAP WILL NOT BE PAID FOR AS A SEPARATE BID ITEM. IT SHALL BE CONSIDERED TO BE A PART OF THE PRICE BID FOR WATER MAINS.
7. FIRE HYDRANT BARRELS SHALL BE ENCASED IN POLY WRAP UP TO THE GROUND SURFACE AND THE WEEP HOLES SHALL NOT BE COVERED BY THE POLY WRAP.
8. GATE VALVES FOR USE WITH PIPE LESS THAN THREE INCHES (3") IN DIAMETER SHALL BE RATED FOR TWO HUNDRED (200) PSI WORKING PRESSURE, NON-SHOCK, BLOCK PATTERN, SCREWED BONNET, NON-RISING STEM, BRASS BODY, AND SOLID WEDGE. THEY SHALL BE STANDARD THREADED FOR PVC PIPE AND HAVE A MALLEABLE IRON HANDWHEEL. GATE VALVES LESS THAN THREE INCHES (3") IN DIAMETER SHALL BE NIBCO-SCOTT T-113 LF WITH NO SUBSTITUTIONS ALLOWED. LARGE GATE VALVES OVER 3" THRU 16" IN DIAMETER, MUST BE RESILIENT SEAT AND BIDIRECTIONAL FLOW ONLY. MANUFACTURERS: MUELLER, AMERICAN DARLING, AVK, OR CITY APPROVED EQUAL. VALVES FOR SPECIAL APPLICATION WILL REQUIRE CITY UTILITY APPROVAL.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WATER SYSTEM NOTES	DRAWING NO.
APPROVED: XXX		W-01

WATER NOTES CONTINUED:

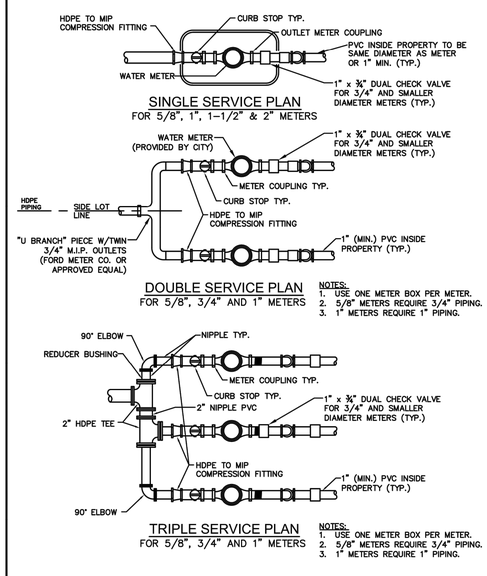
9. VALVE BOXES AND COVERS FOR ALL SIZE VALVES SHALL BE OF CAST IRON CONSTRUCTION AND ADJUSTABLE SCREW-ON TYPE. THE LID SHALL HAVE CAST IN THE METAL THE WORD "WATER" FOR THE WATER LINES. ALL VALVE BOXES SHALL BE SIX INCH (6") NOMINAL DIAMETER AND SHALL BE SUITABLE FOR DEPTHS OF THE PARTICULAR VALVE. THE STEM OF THE BURIED VALVE SHALL BE WITHIN TWENTY-FOUR INCHES (24") OF THE FINISHED GRADE UNLESS OTHERWISE APPROVED BY THE CITY. VALVE BOXES SHALL BE TYLER BRAND, NO SUBSTITUTES.
10. FIRE HYDRANTS: PRESENTLY CITY OF HOLLYWOOD UTILITIES SPECIFICATIONS ALLOW ONLY MANUFACTURERS: MUELLER MODEL SUPER CENTURION 200 5¼" SIZE REFERENCE CATALOG NO. A-423 AND AMERICAN DARLING MODEL B-84-B 5¼" SIZE. ANY DEVIATION FROM REQUIRED SPECIFICATIONS WILL REQUIRE CITY OF HOLLYWOOD UTILITIES APPROVAL.
11. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.
12. ALL PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C900 LATEST REVISION AND CLASS DR 18. ALL DIP WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350, WITH WALL THICKNESS COMPLYING WITH CLASS 52. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-02 AND BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03.
13. FITTINGS SHALL BE DUCTILE IRON, MEETING ANSI/AWWA C153/A21.53-00 SPECIFICATIONS, WITH 350 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03. ALL DUCTILE IRON PIPE AND FITTINGS MUST BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
14. ALL DUCTILE IRON PIPE TO BE MECHANICAL JOINTS, WRAPPED IN POLY. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY DESIGN.
15. GATE VALVES 4" AND LARGER SHALL BE RESILIENT SEAT AND SHALL MEET ANSI/AWWA C-509-01 SPECIFICATIONS, LATEST REVISION. VALVES MUST BE MUELLER (O.A.E.). VALVE BOXES SHALL BE TYLER UNION, CONTROL/GATE VALVES 3" AND SMALLER SHALL BE NIBCO T-133 LF. NO SUBSTITUTIONS.
16. PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.
17. ALL TRENCHING, PIPE LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH THE CITY OF HOLLYWOOD SPECIFICATIONS.
18. THE MINIMUM DEPTH OF COVER OVER WATER MAINS IS 30" (DIP) OR 36" (PVC).
19. MINIMUM CLEARANCE BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 2', AND MAXIMUM DEFLECTION PER EACH JOINT SHALL BE 50% OF MANUFACTURES RECOMMENDATION (MAXIMUM) WHERE DEFLECTION IS REQUIRED.
20. TAPPING SLEEVES SHALL BE MUELLER H-615 (O.A.E.). TAPPING VALVES 4" AND LARGER SHALL BE RESILIENT WEDGE TYPE MEETING ANSI/AWWA C509-01. ALL TAPPING VALVES SHALL HAVE A CAST-IN ALIGNMENT RING AND BE CAPABLE OF ACCEPTING A FULL-SIZE CUTTER.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH WATER MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, WATER MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 18" MINIMUM SEPARATION. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WATER NOTES	DRAWING NO.
APPROVED: XXX		W-01.1

WATER NOTES CONTINUED:

22. PIPE JOINT RESTRAINT SHALL BE PROVIDED BY THE USE OF DUCTILE IRON FOLLOWER GLANDS MANUFACTURED TO ASTM A 536-80. TWIST-OFF NUTS SHALL BE USED TO ENSURE PROPER ACTUATING OF THE RESTRAINING DEVICES. THE MECHANICAL JOINT RESTRAINING DEVICES SHALL HAVE A WORKING PRESSURE OF 250 PSI MINIMUM, WITH A MINIMUM SAFETY FACTOR OF 2:1, AND SHALL BE EBAA IRON INC., MEGALUG OR APPROVED EQUAL. JOINT RESTRAINTS SHALL BE PROVIDED AT A MINIMUM OF THREE JOINTS (60 FEET) FROM ANY FITTING.
23. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WATER NOTES	DRAWING NO.
APPROVED: XXX		W-02

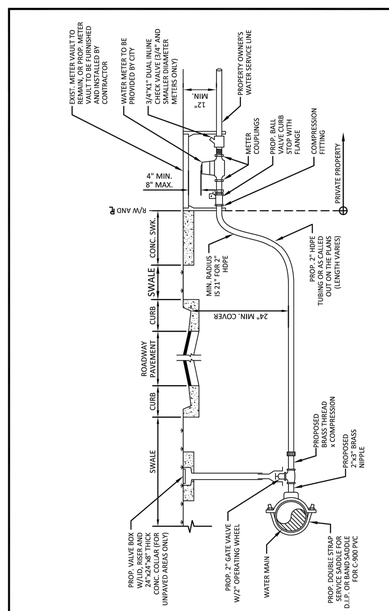


ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL 5/8", 1", 1-1/2" AND 2" METER INSTALLATION	DRAWING NO.
APPROVED: XXX		W-06

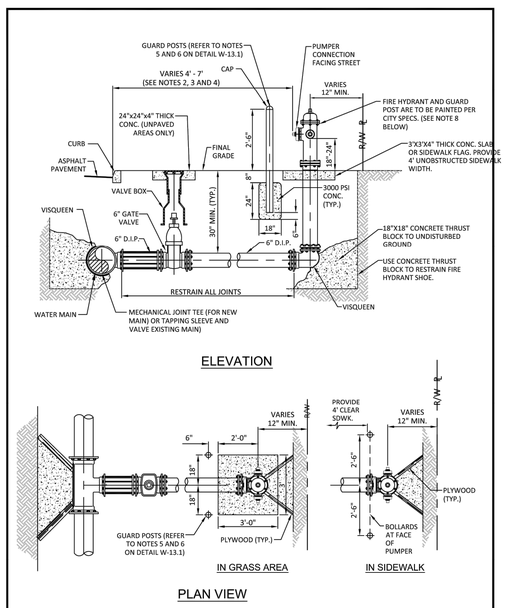
WATER METER SERVICE NOTES:

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER.
2. P.E. TUBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901, "POLYETHYLENE (PE) PRESSURE PIPE AND TUBING, 1/2 IN. (13mm) THROUGH 3 IN. (76 mm), FOR WATER SERVICE".
3. SERVICE PIPE SHALL BE THE SAME SIZE AS THE WATER METER EXCEPT THAT NO SERVICE PIPE SHALL BE SMALLER THAN 1" DIAMETER.
4. SERVICE PIPE CROSSING UNDER THE ENTIRE WIDTH OF A ROADWAY PAVEMENT MUST BE 2" MINIMUM UNLESS OTHERWISE DIRECTED BY THE CITY.
5. THE 3" CASING UNDER THE ROAD IS TO BE USED ONLY WHEN THE WATER MAIN RUNS WITHIN THE SWALE ON THE OPPOSITE SIDE OF THE ROAD FROM THE METER SERVICE. ALL CASING PIPE SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVED STREETS.
6. APPROVED TYPE COPPER TUBING MAY BE USED AT THE CITY'S DISCRETION.
7. FOR NEW METER INSTALLATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS,CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
8. THE WATER METERS WILL BE PROVIDED BY THE CITY OF HOLLYWOOD AND INSTALLED BY THE CONTRACTOR.
9. FOR METER RELOCATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
10. THE EXISTING WATER METER TO BE RELOCATED AND INSTALLED BY CONTRACTOR.
11. FOR EXISTING METERS ABUTTING THE RIGHT-OF-WAY THAT ARE BEING DISCONNECTED FROM EXISTING MAINS AND RECONNECTED TO NEW MAINS, THE CONTRACTOR SHALL:
    a. CUT AND PLUG THE EXISTING SERVICE LINE AT THE MAIN AND AT THE METER, AND REMOVE THE EXISTING BALL VALVE CURB STOP.
    b. FURNISH AND INSTALL SERVICE SADDLE, CORPORATION STOP OR SERVICE VALVE AND VALVE BOX, PIPING AND FITTINGS UP TO AND INCLUDING THE BALL VALVE CURB STOP.
12. THE ELEVATION AT THE TOP OF THE METER BOX SHALL MATCH THE ELEVATION OF THE BACK OF SIDEWALK.
13. AS PART OF THE SERVICE INSTALLATION, THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY TO MATCH EXISTING CONDITIONS, INCLUDING ROADWAY PAVEMENT, PAVEMENT MARKINGS AND RPMs, CONCRETE CURBS, SIDEWALKS, RAMPS (INCLUDING DETECTABLE WARNING SURFACE), SODDING, AND ALL OTHER IMPROVEMENTS REMOVED OR DAMAGED DURING THE SERVICE INSTALLATION.
14. FOR UNPAVED AREAS, THE MINIMUM GROUND COVER ACCEPTED BY THE CITY IS SODDING.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WATER METER SERVICE NOTES FOR 5/8" THROUGH 2" METERS	DRAWING NO.
APPROVED: XXX		W-O7



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL 2-INCH HDPE WATER SERVICE FOR LONG SINGLE/DUAL 5/8", 3/4" AND 1" METERS, AND ANY SINGLE 1-1/2" OR 2" METERS	DRAWING NO.
APPROVED: XXX		W-09



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL FIRE HYDRANT INSTALLATION	DRAWING NO.
APPROVED: XXX		W-13

NOTES:

1. IN ALL CASES, PROVIDE 4' UNOBSTRUCTED SIDEWALK CLEAR OF THE FIRE HYDRANT AND BOLLARDS.
2. FIRE HYDRANTS SHALL BE LOCATED BETWEEN 4' AND 7' FROM THE FACE OF CURB.
3. FIRE HYDRANTS SHALL NOT BE LOCATED WITHIN A RADIUS OR WITHIN FDOT CLEAR DRIVING ZONE.
4. WITHIN FDOT R/W, WHERE SPACE IS RESTRICTED THE FIRE HYDRANT MAY BE LOCATED 2' FROM THE FACE OF THE CURB AS LONG AS THERE IS A MINIMUM 4' UNOBSTRUCTED SIDEWALK BEHIND THE HYDRANT, AND THE HYDRANT BASE IS 4" OR LESS FROM GRADE IN ACCORDANCE WITH F.D.O.T. INDEX 700.
5. GUARD POSTS SHALL NOT BE ALLOWED WITHIN FDOT R/W.
6. OTHER THAN FDOT R/W, GUARD POSTS SHALL BE INSTALLED AS REQUIRED FOR SAFETY OR AS APPROVED BY THE DEPT. OF PUBLIC UTILITIES. IN SIDEWALK, LOCATE GUARD POSTS AT THE FACE OF THE PUMPER AND 2'-6' LEFT/RIGHT OF ℄ OF THE FIRE HYDRANT.EXTRA POSTS MAY BE REQUIRED IN INDUSTRIAL AND CONGESTED TRAFFIC AREAS. (4 POSTS MAX.)
7. FIRE HYDRANT CONCRETE SLAB AND CONCRETE GUARD POST FOOTINGS SHALL BE DIFFERENT POURS.
8. THE FIRE HYDRANT BONNET, OPERATING NUT, HOLD-DOWN NUT, PUMPER CAP AND HOSE CAPS SHALL BE PAINTED GREEN, AND THE HYDRANT UPPER BARREL SHALL BE PAINTED SILVER IN ACCORDANCE WITH CITY SPECIFICATIONS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL FIRE HYDRANT NOTES	DRAWING NO.
APPROVED: XXX		W-13.1

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039-UTILITY DETAILS

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

CUMBERLAND FARMS, INC.

CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

THOMAS ENGINEERING GROUP
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MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:

UTILITY DETAILS

SHEET NUMBER:

CFG07.1

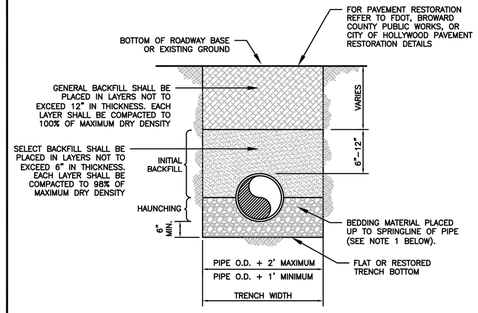
Printed on Friday, November 17, 2017, 3:27 PM by Mary Kaplan
G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-08 - FINAL TAC\F160039-UTILITY DETAILS-----2LAYOUT: CFG07.1 UTILITY DETAILS

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSING (1), (4)	JOINT SPACING @ CROSSING (FULL JOINT CENTERED) (8)
STORM SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2)	WATER MAIN 3 ft minimum	18 inches minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft minimum WATER MAIN
GRAVITY SANITARY SEWER, (3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER	WATER MAIN 10 ft preferred 6 ft minimum	18 inches minimum except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft minimum WATER MAIN
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft minimum		

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER IS REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. 18 INCHES IS THE MINIMUM CLEARANCE REQUIRED BY CITY OF HOLLYWOOD, UNLESS OTHERWISE APPROVED.
5. A MINIMUM 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
6. WHEN WATER MAIN CROSSES OVER A SEWER, A 18 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 36 INCHES ABOVE THE TOP OF THE SEWER.
7. WHEN WATER MAIN CROSSES UNDER A SEWER OR FORCE MAIN, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR AWAY AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN. (STAGGERED JOINTS).
8. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED.

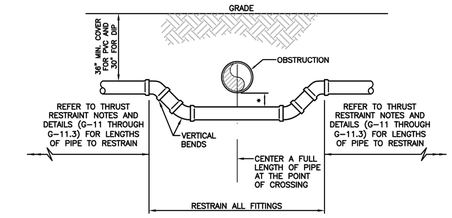
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	SEPARATION REQUIREMENTS OF F.D.E.P. / F.D.N.R.P.	DRAWING NO. G-01.1
APPROVED: XXX		



NOTES:

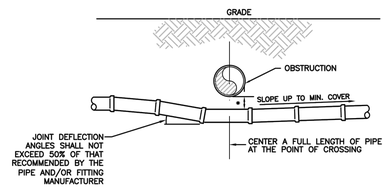
1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL. IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR DRAINFIELD LIMEROCK). CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER DELETERIOUS MATERIALS.
2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".
3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.
4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARD 125-8.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	PIPE LAYING CONDITION TYPICAL SECTION (P.V.C.)	DRAWING NO. G-03
APPROVED: XXX		



UTILITY CROSSING USING FITTINGS

* REFER TO STANDARD DETAIL G-01.1, "SEPARATION REQUIREMENTS", FOR FDEP AND HEALTH DEPARTMENT SEPARATION REQUIREMENTS.



UTILITY CROSSING USING JOINT DEFLECTIONS

* REFER TO STANDARD DETAIL G-01.1, "SEPARATION REQUIREMENTS", FOR FDEP AND HEALTH DEPARTMENT SEPARATION REQUIREMENTS.

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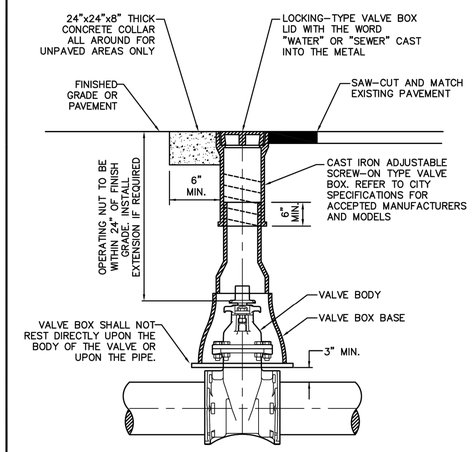
DRAWN: EAM	UTILITY CROSSING DETAIL	DRAWING NO. G-04
APPROVED: XXX		



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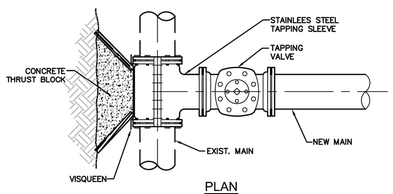
DRAWN: EAM	TYPICAL VALVE BOX SETTING	DRAWING NO. G-05
APPROVED: XXX		



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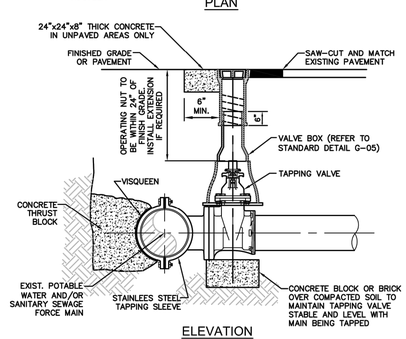
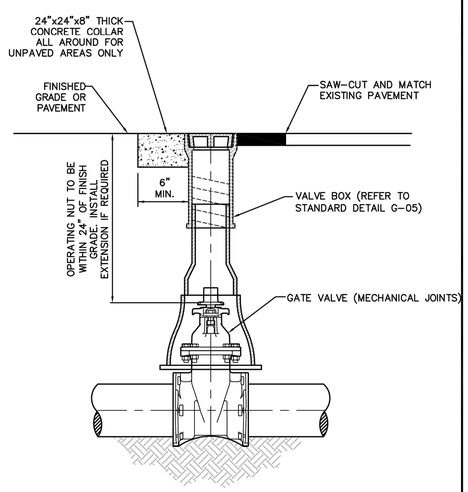


ELEVATION

NOTES:

1. NOTIFY THE CITY OF HOLLYWOOD 48 HOURS IN ADVANCE OF PROPOSED TAP.
2. TAPPING MUST BE DONE IN THE PRESENCE OF AN AUTHORIZED CITY REPRESENTATIVE.
3. TEMPORARY THRUST BLOCKS TO BE INSTALLED AND REMAIN IN PLACE DURING TAPPING OPERATIONS.
4. FOR SEWAGE FORCE MAINS, REFER TO DETAIL OF PRIVATE FORCE MAIN TIE-IN AT PROPERTY LINE.
5. FOR WATER MAINS, A GATE VALVE OF SAME DIAMETER SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF THE TAPPING VALVE.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL TAPPING SLEEVE AND VALVE SETTING	DRAWING NO. G-06
APPROVED: XXX		



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DRAWN: EAM	TYPICAL GATE VALVE AND VALVE BOX SETTING	DRAWING NO. G-07
APPROVED: XXX		

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11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039-UTILITY DETAILS

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

CUMBERLAND FARMS, INC.

CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

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November 17, 2017
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SHEET TITLE:

UTILITY DETAILS

SHEET NUMBER:

CFG07.2

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SEWER NOTES:

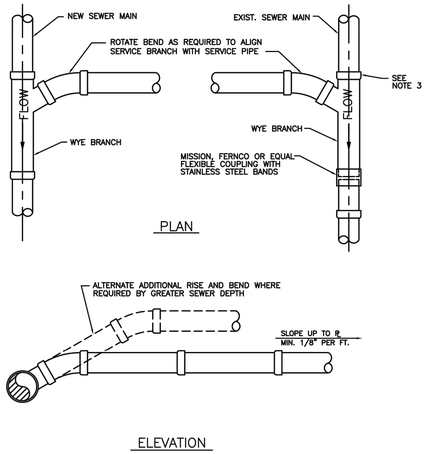
1. THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".
2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
4. LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLE TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.
5. LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING TESTED.
6. FORCE MAINS SHALL BE PRESSURE-TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{S \times D \times \sqrt{P}}{148{,}000}$$

WHERE:
L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR
D = PIPE DIAMETER IN INCHES
S = LENGTH OF LINES IN LINEAL FEET
P = AVERAGE TEST PRESSURE IN PSI

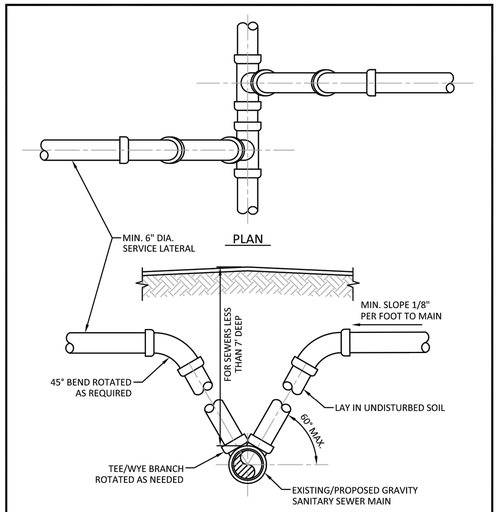
7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTYFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
8. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	SANITARY SEWER MAIN CONSTRUCTION NOTES	DRAWING NO.
APPROVED: XXX		S-01



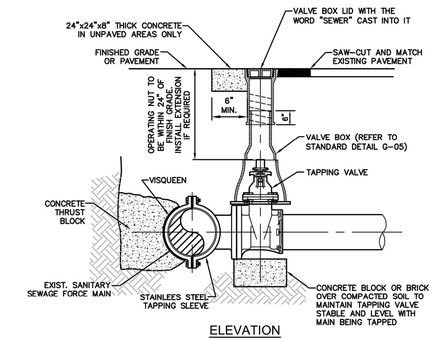
NOTES:
1. SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
2. USE RISER CONNECTIONS WHERE INVERT OF SEWER IS GREATER THAN 7'-0" DEEP.
3. WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A SECOND FLEXIBLE COUPLING.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WYE BRANCH CONNECTION	DRAWING NO.
APPROVED: XXX		S-09



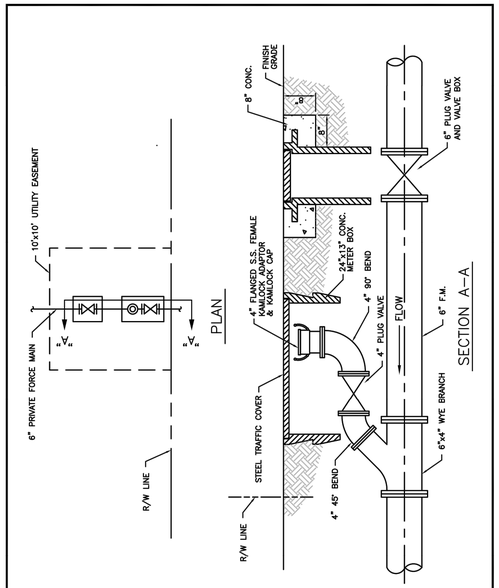
NOTES:
1. MODIFIED RISER CONNECTION TO BE USED ONLY WHEN DIRECTED BY THE CITY.
2. NO. 57 ROCK OR ¾" DRAINFIELD LIMEROCK MAY BE USED AS BEDDING OVER UNDISTURBED SOIL WITH PVC PIPE.
3. SINGLE SERVICE CONNECTIONS SHALL USE 6" (MIN.) DIAMETER PIPE AND FITTINGS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	SANITARY SEWER LATERAL MODIFIED RISER	DRAWING NO.
APPROVED: XXX		S-10

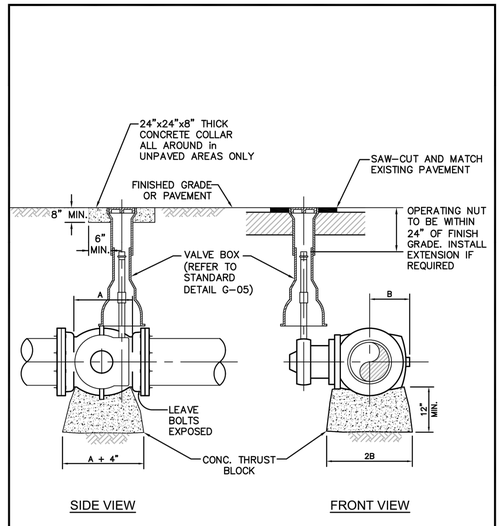


NOTES:
1. REFER TO STANDARD DETAIL GS-06, "TYPICAL TAPPING SLEEVE AND VALVE SETTING"
2. REFER TO STANDARD DETAIL S-14, "PRIVATE FORCE MAIN TIE-IN AT PROPERTY LINE".

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	FORCE MAIN CONNECTION	DRAWING NO.
APPROVED: XXX		S-13

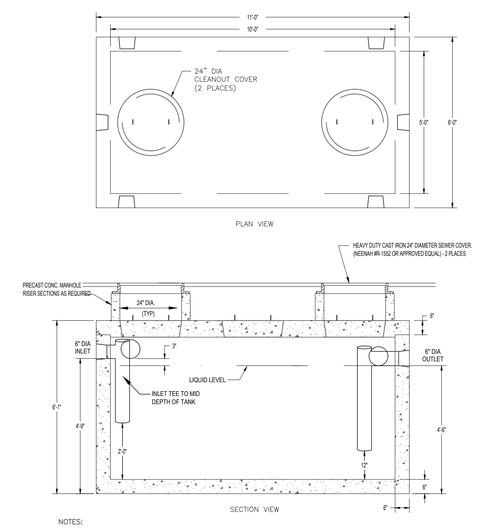


ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	PRIVATE FORCE MAIN TIE-IN AT PROPERTY LINE	DRAWING NO.
APPROVED: XXX		S-14



NOTE:
ALL CONCRETE TO BE 3000 P.S.I.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	PLUG VALVE	DRAWING NO.
APPROVED: XXX		S-15



NOTES:
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. FINAL DESIGN OF GREASE TRAP TO MEET ALL LOCAL AND STATE REQUIREMENTS.
3. ALL REINFORCEMENT PER ASTM C1227-93.
4. DESIGNED FOR H-20 LOADING.
5. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
6. TEES AND BAFFLES SOLD SEPARATELY.
7. GREASE TRAP AS MANUFACTURED BY SHEA CONCRETE PRODUCTS OR APPROVED EQUAL.
8. CONTRACTOR TO PROVIDE DESIGN ENGINEER SHOP DRAWINGS PRIOR TO CONSTRUCTION.

	WEIGHT
SHEA ITEM NO. TK-M1500C	22,840#

COMMERCIAL LINE TANK
1500 GALLON MONOLITHIC

1,500 GALLON GREASE TRAP DETAIL — N.T.S.

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
1000 CORPORATE DR. SUITE 250 FT. LAUDERDALE, FL 33334 P: 954-202-7000
4950 W. KENNEDY BLVD. SUITE 600 TAMPA, FL 33609 P: 813-379-4100
125 W INDIANTOWN RD. SUITE 206 JUPITER, FL 33458 P: 561-203-7503

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039-UTILITY DETAILS

PROJECT:
CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE
FOR
CUMBERLAND FARMS, INC.
CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

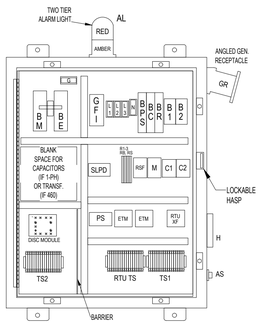
THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL A. TROXELL
PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 56572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
UTILITY DETAILS

SHEET NUMBER:
CFG07.3

Printed on Friday, November 17, 2017, 1:27 PM by Max Kaplan
G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039-UTILITY DETAILS-----XLAYOUT: CFG07.3 UTILITY DETAILS



INTERIOR LAYOUT
(DOOR NOT SHOWN FOR CLARITY)

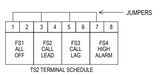
SEE MOPS PUMP STATION SCHEDULE FOR PROJECT SPECIFIC INFORMATION I.E. VOLTAGE, PHASE, ETC.

PANEL COMPONENTS

AL	ALARM LIGHT
ALT	ALTERNATOR (ON DISC)
AS	ALARM SILENCE SWITCH
B1-2	MOTOR BREAKERS
BC	CONTROL BREAKER
BE	EMERGENCY BREAKER
BM	MAIN BREAKER
BPS	POWER SUPPLY BREAKER
BR	RECEPTACLE BREAKER
C1-2	CONTACTOR, MOTOR START
GFI	CONVENIENCE RECEPTACLE
DISC	DUPLEX INTRINSICALLY SAFE CONTROLLER
ETM	ELAPSED TIME METER
G	GROUND BLOCK
GR	GENERATOR RECEPTACLE
H	HORN
HOA	HAND-OFF-AUTO SWITCH (ON DISC)
L1,2,3	POWER DISTRIBUTION BLOCK
N	NEUTRAL BLOCK
PL	PILOT LIGHT (ON DISC)
M	MONITOR: 1PH.=VOLT, 3PH.=PHASE
PS	POWER SUPPLY
R1-3	RELAYS
RB	BATTERY RELAY
RS	SILENCE RELAY
RSF	SEAL FAIL RELAY
RTUXF	RTU TRANSFORMER
SLPD	SURGE/LIGHTNING PROTECTION DEV.
TS1	TERMINAL STRIP FOR PUMPS
TS2	TERMINAL STRIP FOR FLOATS

TS1 TERMINAL SCHEDULE

27	NEU	NEU	120	120	*	-	GND	COM	SF1	SF2	T1	T2	T3	1	2	P1G	T1	T2	T3	1	2	P2G
SCOOR	NEU		120V		RTU TERMINALS (IF USED)				PUMP SEAL FAIL		MOTOR 1 LEADS			MT1 MOTOR 1		GND	MOTOR 2 LEADS			MT2 MOTOR 2		GND



TS2 TERMINAL SCHEDULE

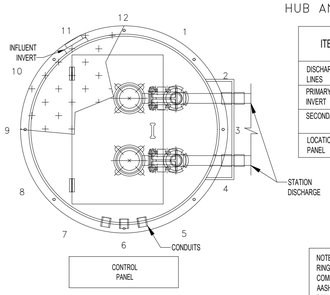
NOTES:

A. NEMA 4X STAINLESS STEEL ENCLOSURE 30"H x 30"W x 8"D
B. PANEL LABELED FOR U.L. 508A "MOTOR CONTROL CENTERS" AND U.L. 698A "HAZARDOUS LOCATION PANELS" (INTRINSICALLY SAFE)
C. COMPLETE BACK-UP, SELF-CHARGING BATTERY, VISUAL/AUDIO ALARM SYSTEM, PER RSWF-45

MOPS CONTROL CENTER

CONTROL CENTER DESIGNED AND MANUFACTURED TO MEET ALL D.E.P. REQUIREMENTS.
SEE SCHEDULE FOR ELECTRICAL SERVICE REQUIREMENTS.

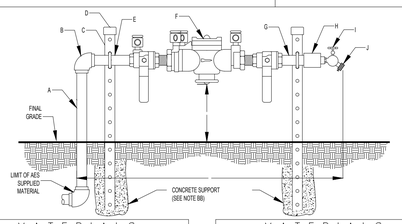
HUB AND INVERT LOCATION



ITEMS	CLOCK POSITION
DISCHARGE LINES	3:00
PRIMARY INVERT	11:00
SECONDARY INVERT	N/A
LOCATION OF CONTROL PANEL	6:00

SCHEMATIC BASED ON THE STATION'S DISCHARGE BEING LOCATED AT THE #3 CLOCK POSITION. SEE SCHEDULE FOR LOCATION OF INVERTS AND CONTROL PANEL LOCATIONS SUBJECT TO CHANGE.

NOTE: BACKFILL AROUND LIFT STATION FROM ANTI-FLOATATION RING UP TO FINISHED GRADE SHALL BE COMMON FILL COMPACTED IN 12-INCH MAX. LIFTS TO 98% DENSITY PER AASHTO T-180. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE WETWELL DURING COMPACTION.



MATERIALS		
ITEM	QTY.	DESCRIPTION
A	1	3/4" x 24" STAINLESS STEEL NIPPLE
B	2	3/4" x 1" STAINLESS STEEL 90o ELBOW
C	2	1" x 1" x 40" SS SUPPORT BRACKET
D	2	SUPPORT BRACKET CAPS P/N 1154
E	2	3/4" STAINLESS STEEL PIPE BOLTS

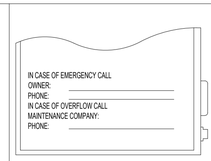
MATERIALS		
ITEM	QTY.	DESCRIPTION
F	1	3/4" APPROVED BACKFLOW PREVENTER
G	1	3/4" x 4" STAINLESS STEEL NIPPLE
H	1	3/4" x 3/4" STAINLESS STEEL COUPLING
I	1	3/4" BRONZE HOSE BIBB
J	1	3/4" VACUUM BREAKER

DETAIL B

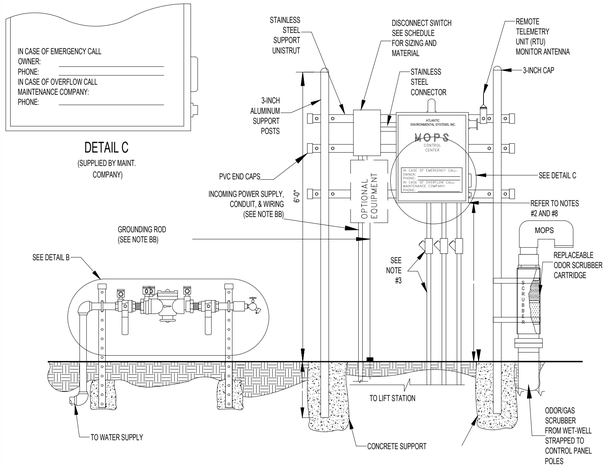
R.P.Z. BACKFLOW PREVENTER ASSEMBLY DETAIL

U.S.C. AND A.S.S.E. APPROVED

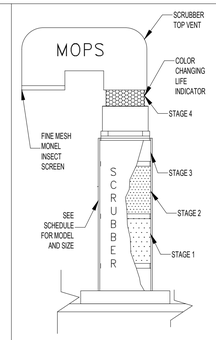
N.T.S.



DETAIL C
(SUPPLIED BY MAINT. COMPANY)



CONTROL CENTER ASSEMBLY AND INSTALLATION N.T.S.

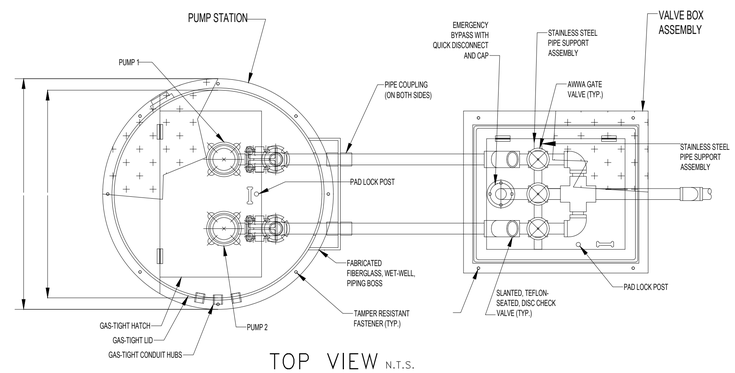


DETAIL A

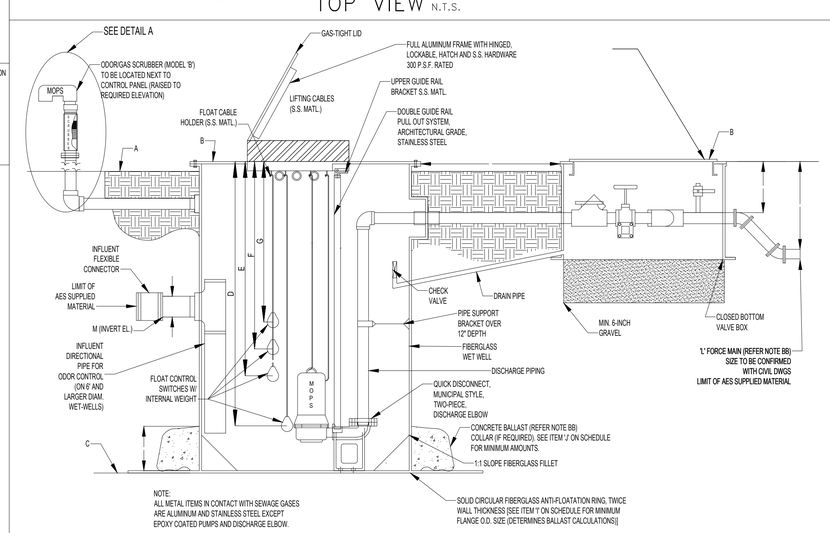
MOPS ODOR/GAS SCRUBBER

NOTES:

1. SCRUBBER DESIGNED TO REMOVE TOXIC SEWAGE GASES, H2S, AND OFFENSIVE ODORS SUCH AS SKATOLES AND MERCAPTANS.
2. SCRUBBER'S LIFE EXPECTANCY CALCULATIONS ARE INCLUDED IN SHOP DRAWING SUBMITTALS.
3. SCRUBBER UNIT CAN BE MOUNTED INSIDE WET-WELL OR TOP MOUNTED.
4. MODEL 'B' SHOWN.



TOP VIEW N.T.S.



NOTE:
ALL METAL ITEMS IN CONTACT WITH SEWAGE GASES ARE ALUMINUM AND STAINLESS STEEL EXCEPT EPOXY COATED PUMPS AND DISCHARGE ELBOW.

SECTION VIEW N.T.S.

MOPS PRIVATE SERIES

MANUFACTURED ODORLESS PUMP STATION
ATLANTIC ENVIRONMENTAL SYSTEMS, INC.
LAKE WORTH, FL 33461
PH: (561) 547-8080 FAX: (561) 547-3999

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MOPS PUMP STATION SCHEDULE

MOPS SERIES			ITEM DESCRIPTION	
INITIAL DESIGN FLOW (G.P.M.)	20		100 YEAR FLOOD ELEVATION	6.00'
INITIAL DESIGN HEAD (T.D.H.)	58'		25 YEAR FLOOD ELEVATION	4.49'
SECONDARY DESIGN FLOW (G.P.M.)	31	A	GRADE ELEVATION	5.75'
SECONDARY DESIGN HEAD (T.D.H.)	43'	B	TOP ELEVATION OF WET WELL	5.75'
RATED PERFORMANCE SPEED	3450 RPM	C	BOTTOM ELEVATION OF WET WELL	-2.25'
RATED MOTOR HORSEPOWER	2.0	D	ALL PUMPS OFF ELEVATION	-0.40'
SUBMERSIBLE PUMP TYPE (P-1,P-2)	GRINDER	E	LEAD PUMP ON ELEVATION	0.30'
PUMP MODEL NUMBER	MOPS	F	LAG PUMP ON ELEVATION	0.80'
SERVICE ENTRANCE VOLTAGE	208	G	HIGH ALARM ELEVATION	1.30'
SERVICE ENTRANCE PHASE	3	H	INSIDE DIAMETER OF WET-WELL	48"
CONTROL CENTER FULL LOAD AMPS	23	I	OUTSIDE DIAMETER OF ANTI-FLOATATION RING	84"
NEMA 3R PAINTED STEEL DISCONNECT SWITCH, RATED AMPS	30	J	MINIMUM CUBIC FEET OF CONCRETE BALLAST (CU YDS)	000/(0)
WET WELL SCOURER SYSTEM	N/A	K	INVERT PIPE DIAMETER	6"
REMOTE STATION MONITOR (TELEMETRY)	W/SA	L	FORCE MAIN DIAMETER	2"
ON-SITE GENERATOR SYSTEM	N/A	M	PRIMARY INVERT ELEVATION	1.80'
		N	SECONDARY INVERT ELEVATION	N/A

MOPS EQUIPMENT IDENTIFICATION	QTY.	MODEL DESIGNATION
MOPS PUMP STATION	1	B22-4896-C-2.0
MOPS VALVE BOX ASSEMBLY (VBA)	1	VBA-22
MOPS ODOR/GAS SCRUBBER (OGS)	1	OGS-B
MOPS R.P.Z. ASSEMBLY	1	75
MOPS CONTROL CENTER	1	PSC-222-2.0
MOPS DISCONNECT SWITCH	1	FDS-30-3-2-PS
MOPS CONTROL CENTER MOUNTING ASSEMBLY	1	CCMA-32AL
MOPS WET WELL SCOURER SYSTEM	0	N/A
MOPS REMOTE STATION MONITOR	1	PROVIDED WITH SERVICE AGREEMENT
1st YEAR SERVICE/MAINTENANCE CONTRACT	1	LEVEL 1 WITH REMOTE MONITOR
MOPS ON-SITE GENERATOR SYSTEM	0	N/A
MOPS FIELD SERVICE WORK	1	CONTROL INSTALLATION & START-UP

MOPS PUMP STATION COMPLIANCE NOTES

THIS PUMP STATION DESIGN COMPLIES WITH THE FOLLOWING REQUIRED STANDARDS:

- STATE OF FLORIDA ENVIRONMENTAL PROTECTION STANDARDS
- FLORIDA ADMINISTRATIVE CODE (F.A.C.): 62-640.400- COLLECTION AND TRANSMISSION SYSTEMS
- NATIONAL ELECTRIC CODE (NEC) CLASS 1, DIVISION 1, GROUP D- HAZARDOUS LOCATIONS
- UNDERWRITER'S LABORATORIES (U.L.) 508A-MOTOR CONTROL CENTERS AND U.L. 698A-INSTRINSICALLY SAFE CONTROL CENTERS
- RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (1997 EDITION).

1. PUMPS ARE RATED BY FACTORY MUTUAL FOR CLASS 1, DIVISION 1, GROUP D ATMOSPHERES AS REQUIRED BY NEC.
2. THE CONTROL CENTER INCORPORATES INTRINSICALLY SAFE RELAYS AND IS LISTED TO UL 698A INTRINSICALLY SAFE FOR CLASS 1, DIVISION 1 ATMOSPHERES.
3. THE CONDUIT PROVIDED, ALONG WITH CONDUIT GAS-SEAL-OFFS, ARE RATED FOR CLASS 1, DIVISION 1 LOCATIONS.
4. THE WASTEWATER PUMPS AND THE CONTROL CENTER INCORPORATE A MECHANICAL SEAL FAILURE DETECTION AND NOTIFICATION SYSTEM.
5. THE CONTROL CENTER INCLUDES EITHER A REMOTE TELEMETRY UNIT (RTU) OR A SELF-CHARGING, BACK-UP ALARM SYSTEM TO OPERATE ON POWER FAILURE.
6. THE PUMP STATION INCORPORATES AN ODORLESS DESIGN WITH A SCRUBBER SYSTEM TO CONTROL TOXIC GASES AND ODORS FOR COMPLIANCE TO F.A.C. 62-604.400.
7. THE BOTTOM OF THE TOP RIM ELEVATION OF PUMP STATION MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 25 YEAR FLOOD ELEVATION. THE LISTED 25 YEAR FLOOD ELEVATION PROVIDED BY SITE CIVIL ENGINEER.
8. THE BOTTOM ELEVATION OF THE MOPS CONTROL CENTER MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 100 YEAR FLOOD ELEVATION. THE LISTED 100 YEAR FLOOD ELEVATION PROVIDED BY THE SITE CIVIL ENGINEER.

MOPS ENGINEERING NOTES

AA. THE HORSEPOWER SHOWN ON THE SCHEDULE IS A MINIMUM HORSEPOWER REQUIREMENT BASED ON THE STATION'S DESIGN CRITERIA AND THE REQUIRE TORQUE. (LOWER RATED HORSEPOWER EQUIPMENT WILL NOT BE ACCEPTABLE.)
BB. THESE ITEMS ARE NOT SUPPLIED BY A.E.S. WITH THE MOPS STATION.
CC. INVERT ELEVATIONS BASED ON INSIDE BOTTOM OF PIPE.
DD. THE MOPS CONTROL ASSEMBLY CONSISTS OF THE FOLLOWING: CONTROL CENTER DISCONNECT SWITCH, MOUNTING ASSEMBLY, ELECTRICAL CONDUITS, AND SEAL-OFF. THESE ITEMS MUST BE SUPPLIED AND INSTALLED BY THE MOPS PUMP STATION MANUFACTURER TO VALIDATE MOPS WARRANTY PROGRAM.

THE MOPS WASTEWATER PUMP STATION DESIGN AND EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN REVIEWED, PERMITTED, AND CERTIFIED AS COMPLYING WITH ALL THE STATE OF FLORIDA D.E.P. AND LOCAL REQUIREMENTS. ANY SUBSTITUTION FROM THIS DESIGN MAY REQUIRE NEW PERMITS, APPLICATION FEES, AND ENGINEERING SERVICES FOR RE-CERTIFICATION AND DESIGN REVIEW.

P.E. CERTIFICATION:

Bonnie S. McLeod, P.E. License # 70797
V.P. of Engineering
Atlantic Environmental Systems, Inc., C A # 26398
2244 4th Ave. North, Lake Worth, Florida 33461
Ph: 561-547-8080 / Fax: 561-547-3999

PRIVATE PUMP STATION

REVISION	DATE
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Project: CUMBERLAND FARMS - SR 84 & SW 30TH AVE.
Prepared For: THOMAS ENGINEERING GROUP
1000 CORPORATE DR., SUITE 250, FT. LAUDERDALE, FL 33334

AES. Project No: 1154
Date: 11/15/17

Page No. LS-1

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
1000 CORPORATE DR. SUITE 250 FT. LAUDERDALE, FL 33334 P: 954-202-7000
4950 W. KENNEDY BLVD. SUITE 600 TAMPA, FL 33609 P: 813-379-4100
125 W INDIANTOWN RD. SUITE 206 JUPITER, FL 33458 P: 561-203-7593

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.: F160039
DRAWN BY: JFV
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PROJECT:
CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE
FOR
CUMBERLAND FARMS, INC.
CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

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PROFESSIONAL ENGINEER
November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
LIFT STATION DETAILS

SHEET NUMBER:
CFG07.4

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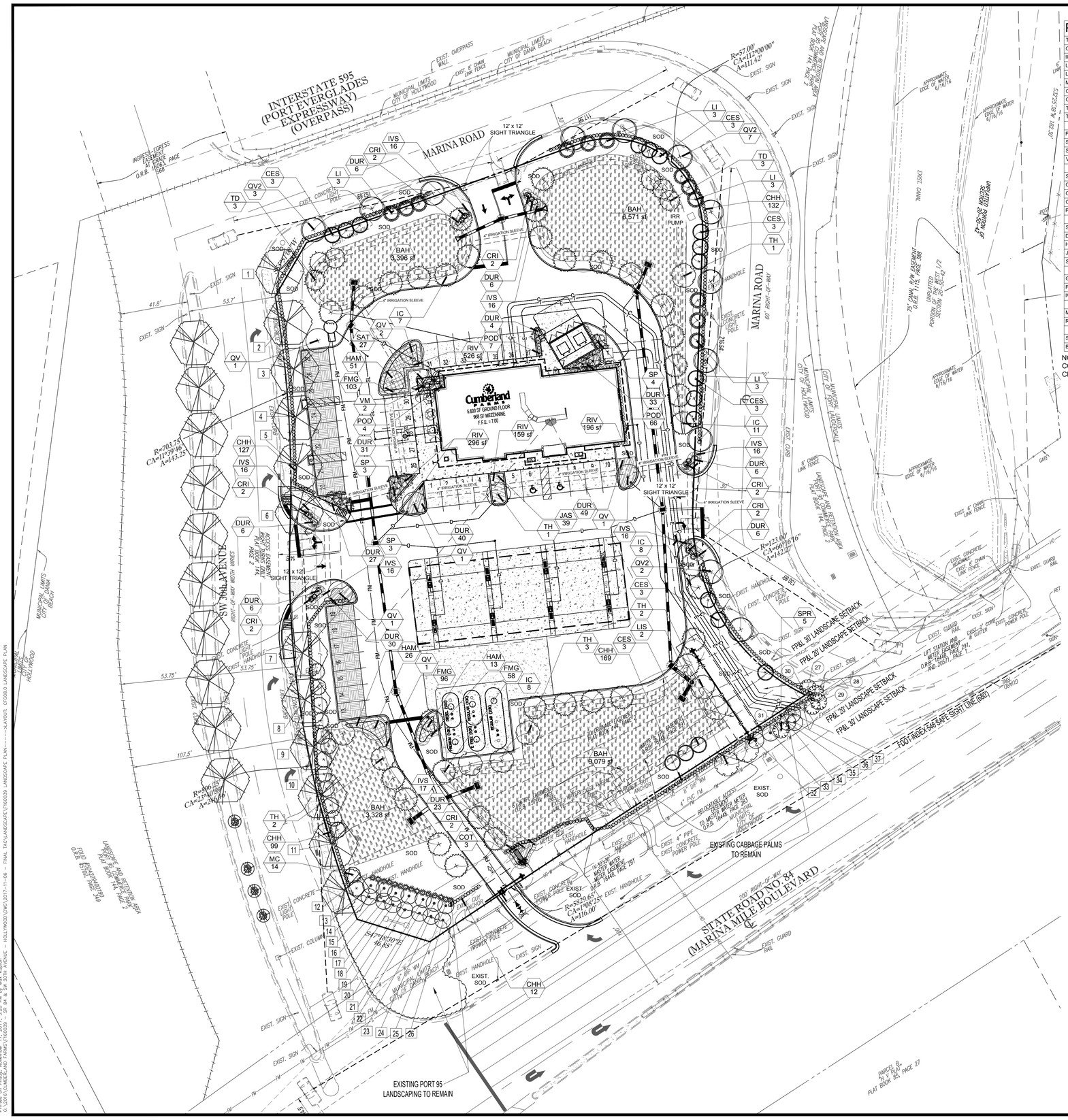
C:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\F160039-UTILITY DETAILS-----SLAYOUT: CFG07.4 LIFT STATION DETAILS



PLANT SCHEDULE

TREES	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	CAL/DBH	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
CES	18	Silver Button Wood	Conocarpus erectus sericeus	65 gal	2" DBH	8.5-10'	4'	Yes	High	
IC	34	Dahoon Holly	Ilex cassine	B & B	2" DBH	10' Ht	4'	Yes	High	4.5' clear trunk
LI	12	Muskogee Crape Myrtle	Lagerstroemia indica "Muskogee"	65 gal	2" DBH	8-10' Ht	5'	No	High	4' CT
LIS	2	Queen`s Crape Myrtle	Lagerstroemia indica	FG/B&B	4" DBH	14' Ht	5-6'	No	High	5' CT
MC	14	Wax Myrtle	Myrica cerifera	25 gal	2" DBH	8-10' Ht	4'-5'	Yes	High	Multi
QV	7	High Rise Live Oak	Quercus virginiana `High Rise`	B & B	2" DBH	10-12' Ht	4'	Yes	High	4.5' clear trunk
QV2	12	High Rise Live Oak	Quercus virginiana `High Rise`	B & B	4" DBH	14-16' ht.	6-8'	Yes	High	6.5' clear trunk
TD	6	Bald Cypress	Taxodium distichum	25 gal	2" DBH	12' Ht	4-5'	Yes	High	6' CT
TH	9	Pink Tabebuia	Tabebuia heterophylla	B & B	2" DBH	10-12' Ht	4-5'	No	High	4.5' clear trunk
PALM TREES	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	CAL/DBH	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
SP	10	Cabbage Palmetto	Sabal palmetto	B & B		8-12' ct stagger	10'	Yes	High	
SPR	5	Cabbage Palmetto	Sabal palmetto	NA				Yes	High	RELOCATED
VM	2	Montgomery Palm	Veitchia montgomeryana	B & B		24' Ht	12'	No	High	single trunk, 6' gw.
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
CHH	539	Red Tip Cocoplum	Chrysobalanus icaco `RedTip`	NA	24"	24"	18-24"	Yes	High	full to base
COT	3	Black Magic Ti Plant	Cordyline terminalis `Black Magic`	NA	As Shown	30"	24"	No	High	3 plants per pot
CRI	14	Queen Emma Crinum Lily	Crinum asiaticum `Variegated Procerum`	NA	As Shown	48"	48"	No	Medium	
POD	77	Shrubby Yew	Podocarpus macrophyllus maki	NA	24"	30"	24"	No	Medium	full to base
SHRUB AREAS	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
DUR	273	Sky Flower	Duranta repens `Gold Mound Dewdrop`	n/a	24"	18-24"	16-18"	Yes	High	
HAM	90	Fire Bush	Hamelia patens	n/a	24"	24"	18-24"	Yes	High	full to base
JAS	39	Downey Jasmine	Jasminum multiflorum	n/a	24"	18"	16-18"	No	Medium	full
SAT	27	Variegated Dwarf Schefflera	Schefflera arboricola `Trinette`	3 gal	24"	18"	20"	No	High	
GROUND COVERS	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
FMG	257	Green Island Ficus	Ficus microcarpa `Green Island`	n/a	16"	12"	10-12"	No	High	
IVS	113	Dwarf Yaupon	Ilex vomitoria `Stokes Dwarf`	n/a	16"	12"	12"	Yes	High	
MISCELLANEOUS	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
RIV	1,178 sf	1/2 stones	River Rock	rock						
SOD/SEED	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	SPACING	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
BAH	22,373 sf	Bahia Grass	Paspalum notatum `Argentine`	grass					High	

NOTE: ANY SOD LABELED AS "EXIST. SOD", DAMAGED DURING CONSTRUCTION, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR. UNLESS OTHERWISE NOTED, ALL SOD AREAS TO BE ST. AUGUSTINE SOLID SOD (SEE GENERAL NOTE "O", SHEET CFG08.3). SOD AND MULCH QUANTITIES BY CONTRACTOR.

CITY OF HOLLYWOOD FLORIDA

CODE COMPLIANCE CHART C-4

CITY OF HOLLYWOOD LANDSCAPE MANUAL
NET SITE AREA: 108,136 SF (2.48 ACRES)
SECTION 2.3: COMMERCIAL DISTRICTS (C-1 THROUGH C-5)

		REQUIRED	PROVIDED
Perimeter Landscape Buffer			
1 Swale Street Tree/50 lf of Street Frontage:			
1 Shrub/2 l.f.			
SR 84: 206.92 lf	(*Includes 10 Exist. Cabbage Palms (Equals 3 Trees))	5 TREES	**5 TREES***
		104 SHRUBS	**104 SHRUBS**
SW 30th Ave: 284.87 lf	(**Includes 6 Existing Live Oak Trees)	6 TREES	**6 TREES****
		143 SHRUBS	**143 SHRUBS**
Marina Road: 600.77 lf		12 TREES	**12 TREES**
		300 SHRUBS	**300 SHRUBS**
5' Landsacpe Buffer Included Within Required Setback Areas with 1 Tree/20 LF of Required Buffer (1,092.56')	(***Includes 16 Existing Cabbage Palms (Equals 5 Trees) & 6 Live Oak Trees)	55 TREES	**55 TREES*** **
Interior Landscaping for Vehicular Use Areas (50,074 SF)			
For Lots Greater than 50' wide: 25% of Total sf of Paved VUA shall be used for Landscaping:		12,518.50	**42,165.2 SF**
1 Tree/Required Parking Island:	*(11 islands)*	11 TREES	**11 TREES**
Each Island shall contain 190 sf Min. of Pervious Area			**Complies**
Open Space:			
1 Tree/1000 sf of Pervious Area in Addition to Parking Areas:	*(47,628 sf/1000)*	48 TREES	**48 TREES**
	TOTALS	137 TREES	**137TREES**
		547 SHRUBS	**1057SHRUBS**
Minimum Tree Sizes:			
Trees: 8 1/2' height, 2" dbh			
Palms: 6' clear wood (50% Max.of code requirements); 3:1			
Minimum 8 Species Required/9 Species Provided			
		native/required	**native/provided**
Native: 60% Trees		83/137TREES	**113/137 TREES**
			82.48%
50% Shrubs		274/547 SHRUBS	**757/1057 SHRUBS**
			71.62%
Drought Tolerant: 80% for all Materials per Ordinance 0-2011-06 Mandatory Green Building Practices		**TREES**	**100.0%**
		SHRUBS	**87.4%**

Provided Landscape Meets All Applicable City of Hollywood Codes and Port 95 Design Guidelines

LANDSCAPE NOTES:

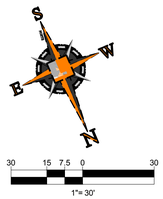
1. Contractor responsible for locating and protecting all underground utilities prior to digging.
2. Contractor responsible for protecting existing trees from damage during construction as shown on plans.
3. General Contractor to install 6" minimum depth of clean, friable topsoil at all planting beds and lawn areas prior to fine grading. See Topsoil specification Sheet CFG08.3.
4. All shrub beds (existing and new) to be mulched with a 4-inch minimum layer of hardwood mulch (brown) as defined in the landscape specifications on Sheet CFG08.3.
5. Existing grass in proposed planting areas to be killed and removed and area to be hand raked to remove all rocks and debris larger than 1 inch in diameter prior to planting shrubs or laying sod. Landscape contractor to provide fine grading. See grading specification SheetCFG08.3.
6. Any existing grass disturbed during construction to be fully removed, re-graded and replaced. All tire marks and indentions to be repaired. No exceptions.
7. Soil to be tested to determine fertilizer and lime requirements and distributed prior to laying sod as directed by L.A. Provide results to L.A. and Cumberland Farms Project Manager.
8. 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 adjacent to mulch beds to be shovel cut. All sod to be delivered in largest rolls available. There shall be no gaps between sod joints.
9. All changes to design or plant substitutions are to be authorized in writing by the Landscape Architect, City of Hollywood Landscape Architect, and Cumberland Farms Construction Project Manager.
10. Planting Mix to be provided as specified in the landscape specifications Sheet CFG08.3.
11. All landscaping shall be installed in conformance with ANSI Z60.1 the "American Standard for Nursery Stock" and the accepted standards of the American Association of Nurserymen.
12. The Landscape Contractor shall guarantee all plants installed for one full year from date of acceptance. 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.
13. Any plant that is determined dead, in an unhealthy or unsightly condition, lost its shape due to dead branches or other symptoms of poor, non-vigorous growth, as determined by the Landscape Architect, shall be replaced by the Landscape Contractor at no cost to Cumberland Farms.
14. General Contractor to mound all parking islands 6" - 10" with clean-screened topsoil.
15. Prior to installation, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve topsoil provided by General Contractor and observe the site conditions under which the work is to be done. Notify General Contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Architect, Landscape Contractor and Cumberland Farms Construction Manager.
16. Stake all evergreen and deciduous trees.
17. Remove all stakes and guying from all trees after one year from planting.
18. Water all plant material that are newly planted thoroughly twice in first 24 hours and apply mulch immediately.
19. Site to be 100% irrigated in all planting beds and grass area by an automatic underground irrigation system. See Irrigation Plan Sheets CFG08.4 thru CFG08.6.
20. All tree protection devices to be installed by General Contractor prior to the start of land disturbance, and maintained until final landscaping.
21. All tree protection areas to be protected from sedimentation.
22. All tree protection fencing to be inspected daily, and repaired or replaced as needed or as instructed by L.A.
23. Landscape Contractor shall provide a 1year maintenance period under separate contract following acceptance by the Landscape Architect and Cumberland Farms Construction Manager. Maintenance contract to be assigned through Cumberland Farms maintenance Department.

NOTE: ALL LANDSCAPE AREAS SHALL BE IRRIGATED AND SHALL HAVE 100% COVERAGE WITH A MINIMUM 50% OVERLAP.

PLEASE REFER TO SHEET CFG08.2 FOR LANDSCAPE PLANTING DETAILS, AND SHEET CFG08.3 FOR LANDSCAPE GENERAL NOTES.

NOTE: NO PLANT MATERIAL SHLL BE PLANTED OVER ROOT BALLS OF NEW TREES AND PALMS.

NOTE: THERE SHALL BE NO PLANT MATERIAL SUBSTITUTIONS WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT AND THE CITY OF HOLLYWOOD'S LANDSCAPE REVIEWER.



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REV:	DATE:	COMMENT:	BY:

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.:	F160XXX
DRAWN BY:	JFV
CHECKED BY:	MDG
DATE:	11-20-2017
CAD I.D.:	F160039 LANDSCAPE PLAN

PROJECT:

STATE RD 84 & SW 30 TH AVENUE

FOR

CUMBERLAND FARMS

HOLLYWOOD
FLORIDA

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LA 6666871
STATE OF FLORIDA
LICENSE NUMBER LA6666871
FLORIDA BUSINESS LICENSE OF AUTH. No. 27528

SHEET TITLE:

LANDSCAPE PLAN

SHEET NUMBER:

CFG08.0

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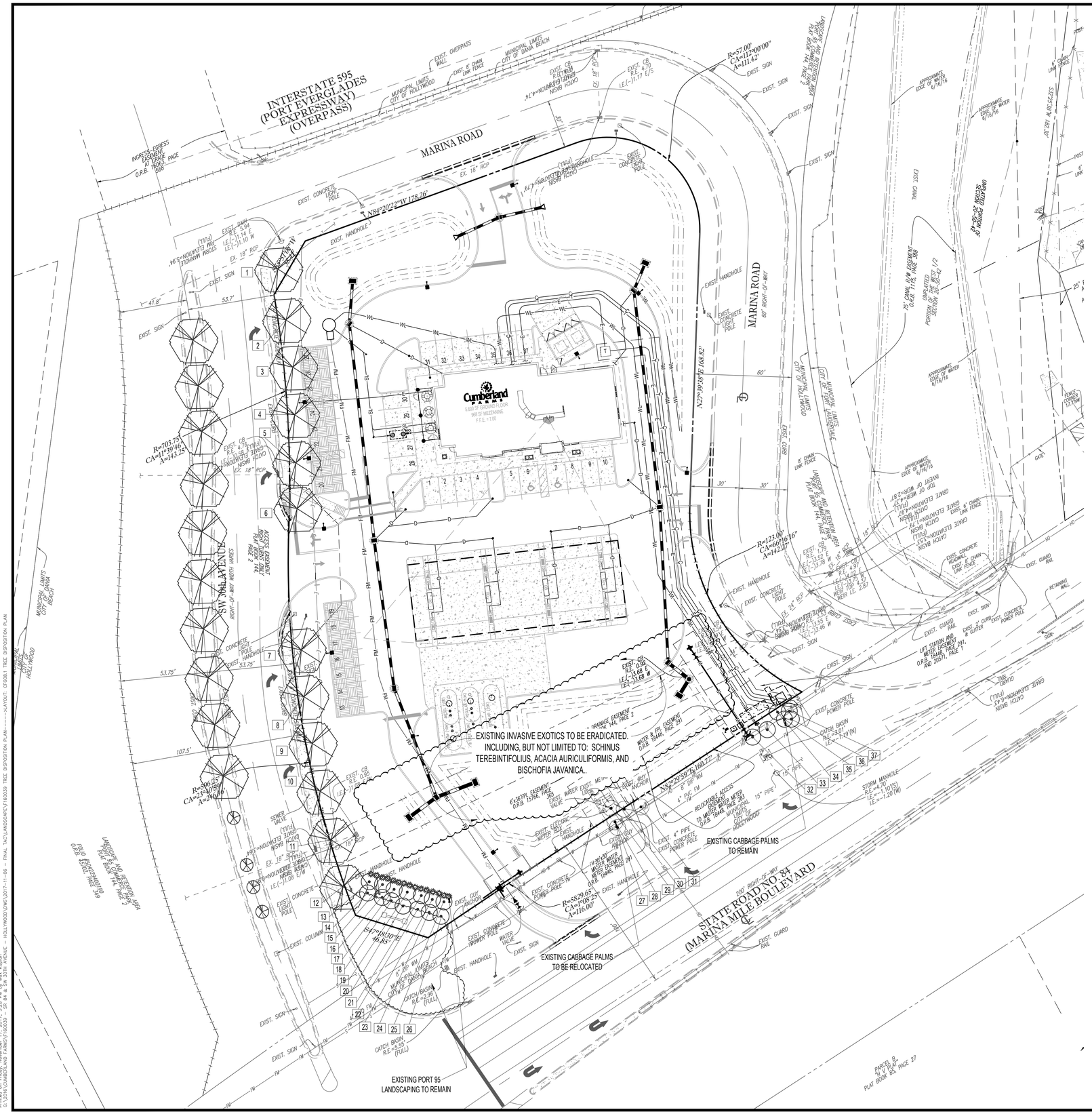
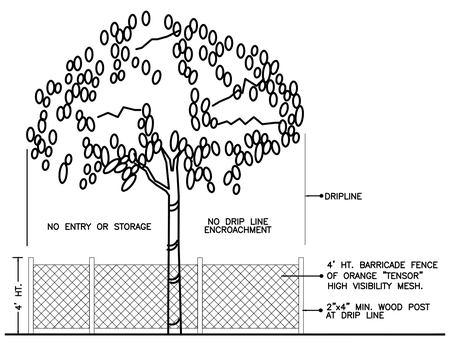
G:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\LANDSCAPE\F160039 LANDSCAPE PLAN-----<<LAYOUT: CFG08.0 LANDSCAPE PLAN



EXISTING TREE DISPOSITION CHART

CUMBERLAND FARMS - HOLLYWOOD, FL

TREE NO.	BOTANICAL NAME	COMMON NAME	HT	SPR	DBH	CONDITION	DISPOSITION	COMMENTS
1	Quercus virginiana	Live Oak	30'	30'	16	80%	REMAIN	Street Tree
2	Quercus virginiana	Live Oak	30'	30'	16	80%	REMAIN	Street Tree
3	Quercus virginiana	Live Oak	30'	30'	20	80%	REMAIN	Street Tree
4	Quercus virginiana	Live Oak	30'	30'	16	80%	REMAIN	Street Tree
5	Quercus virginiana	Live Oak	30'	30'	16	80%	REMAIN	Street Tree
6	Quercus virginiana	Live Oak	30'	30'	20	80%	REMAIN	Street Tree
7	Quercus virginiana	Live Oak	30'	30'	20	80%	REMAIN	Street Tree
8	Quercus virginiana	Live Oak	30'	30'	16	80%	REMAIN	Street Tree
9	Quercus virginiana	Live Oak	30'	30'	18	80%	REMAIN	Street Tree
10	Quercus virginiana	Live Oak	30'	30'	20	80%	REMAIN	Street Tree
11	Quercus virginiana	Live Oak	30'	30'	18	80%	REMAIN	Street Tree
12	Quercus virginiana	Live Oak	30'	30'	18	80%	REMAIN	Street Tree
13	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	Port 95 Entry Feature
14	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	Port 95 Entry Feature
15	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	Port 95 Entry Feature
16	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	Port 95 Entry Feature
17	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	Port 95 Entry Feature
18	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	Port 95 Entry Feature
19	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	Port 95 Entry Feature
20	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	Port 95 Entry Feature
21	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	Port 95 Entry Feature
22	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	Port 95 Entry Feature
23	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	Port 95 Entry Feature
24	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	Port 95 Entry Feature
25	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	Port 95 Entry Feature
26	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	Port 95 Entry Feature
27	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	Relocate	
28	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	Relocate	
29	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	Relocate	
30	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	Relocate	
31	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	Relocate	
32	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	
33	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	
34	Sabal palmetto	Cabbage Palm	10'ct	10'	12	75%	REMAIN	
35	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	
36	Sabal palmetto	Cabbage Palm	12'ct	10'	14	75%	REMAIN	
37	Sabal palmetto	Cabbage Palm	15'ct	10'	14	75%	REMAIN	



TREE PRESERVATION BARRICADE FENCING DETAIL

N.T.S.

GENERAL NOTES:

1. Contractor is responsible for determining all utility locations and installing facilities so as to not conflict. All damage to existing utilities or improvements caused by Contractor shall be repaired at no additional cost to the Owner.

2. Contractor to notify "Sunshine State One Call of Florida, Inc." at 1-800-432-4770 Two Full Business Days prior to digging for underground utility locations.

3. Contractor shall be responsible for providing final grading of all associated planting areas.

4. After final grade, area to be raked to 6" depth and all rock and foreign inorganic materials removed and disposed of properly off-site.

5. Tree protection barricades shall be provided by Landscape Contractor around existing trees that may be impacted by the proposed construction. Prior to any construction & tree protection barricade inspection shall be conducted by the landscape architect, owner or governing municipality. Refer to landscape detail for tree preservation barricade fencing.

30 15 7.5 0 30
1"= 30'

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11/20/2017

PROJECT No.:	F160XXX
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DATE:	11-20-2017
CAD I.D.:	F160039 TREE DISPOSITION PLAN

PROJECT:

STATE RD 84 & SW 30 TH AVENUE

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TREE DISPOSITION PLAN

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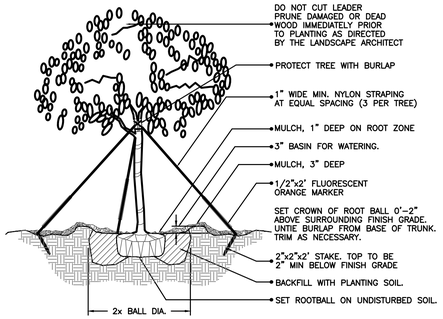
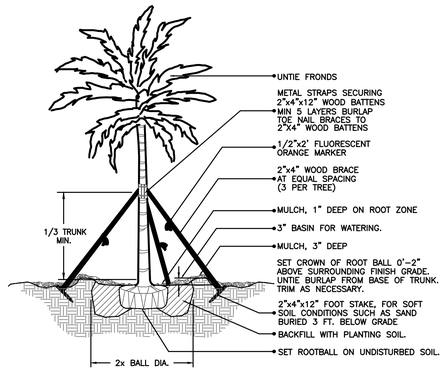
C:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30th AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\LANDSCAPE\F160039 TREE DISPOSITION PLAN------>LAYOUT: CFG08.1 TREE DISPOSITION PLAN



(2" cal. and over) LARGE TREE PLANTING DETAIL

N.T.S.



LARGE PALM PLANTING DETAIL

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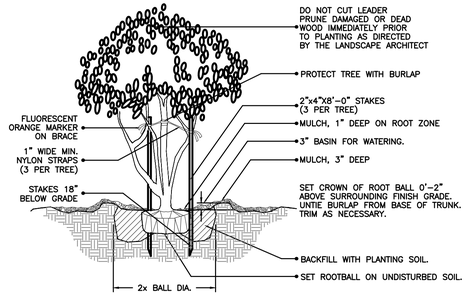

MULTI- TRUNK AND SMALL TREE (2" cal. and under) PLANTING DETAIL

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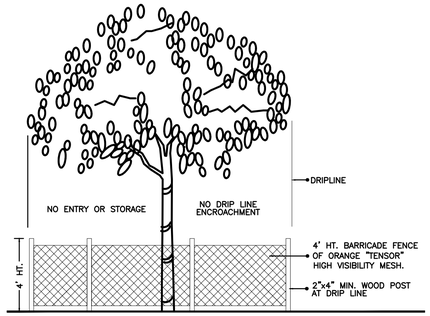
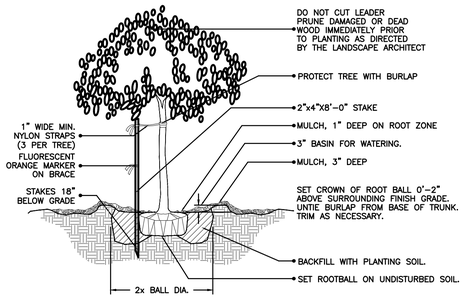


TREE PRESERVATION BARRICADE FENCING DETAIL

N.T.S.



(2" cal. and under) SMALL TREE PLANTING DETAIL

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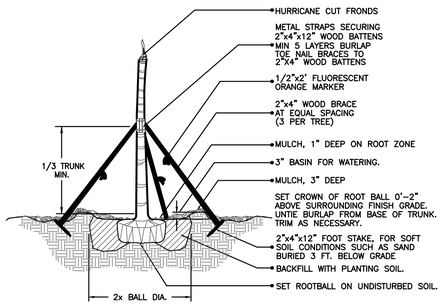

CIGARED SABAL PALM PLANTING DETAIL

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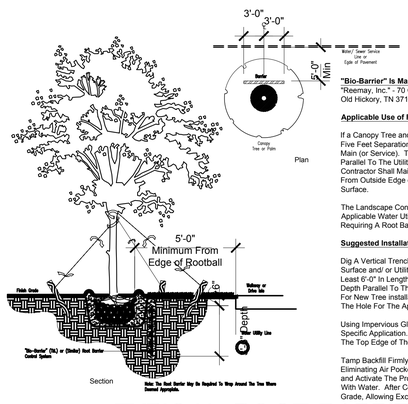


"Bio-Barrier" Is Manufactured By:
"Reemay, Inc." - 70 Old Hickory Blvd. - P.O.Box 511
Old Hickory, TN 37138 - Phone: 1-800-25-ROOTS

Applicable Use of Root Barriers:

If a Canopy Tree and/ or Palm Is To Be Installed Within Less Than (5') Five Feet Separation From A Water Main (or Service) and/ or Sewer Main (or Service). The Landscape Contractor Shall Install a Root Barrier Parallel To The Utility As Required and as per This Detail. The Contractor Shall Maintain A (5') Five Feet Minimum Horizontal Distance From Outside Edge of Rootball To The Utility or any Paved or Concrete Surface.

The Landscape Contractor Shall Verify The Existing Locations of The Applicable Water Utilities, In The Field, Prior To Any Tree Installations Requiring A Root Barrier.

Suggested Installation Method:

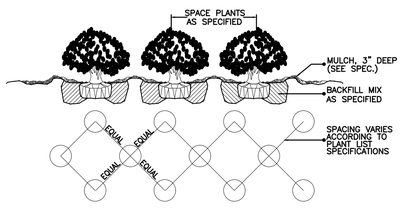
Dig A Vertical Trench Between The Root Source of The Tree and The Surface and/ or Utility Line To Be Protected. The Trench Must Be At Least 6'-0" In Length (Centered On Tree) and Must Be at Least 4'-0" In Depth Parallel To The Applicable Surface, Service and/ or Utility. Note: For New Tree installations, Trench May Be Dug At The Same Time as The Hole For The Applicable Tree and/ or Palm.

Using Impervious Gloves, Roll Out "Bio-Barrier" and Trim To Fit The Specific Application. Insert The Barrier Vertically Into The Trench, With The Top Edge of The Barrier (6") Six Inches Below The Soil Surface.

Tamp Backfill Firmly Into Trench With 'Bio-Barrier" Contained, Eliminating Air Pockets or Soil Voids Accordingly. Dissolve The Coating and Activate The Product By Saturating The Backfill and 'Bio-Barrier" With Water. After Completed, Smooth The Soil Surface To Finish Grade, Allowing Excess Material For Soil Setting.

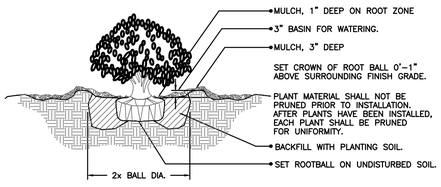
TYPICAL ROOT BARRIER APPLICATION DETAIL

N.T.S.



SHRUB / GROUNDCOVER SPACING / PLANTING DETAIL

N.T.S.



SHRUB PLANTING DETAIL

N.T.S.

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
1000 CORPORATE DR. SUITE 250 FT. LAUDERDALE, FL 33334 P: 954-202-7000
4950 W. KENNEDY BLVD. SUITE 600 TAMPA, FL 33609 P: 813-379-4100
125 W INDIANTOWN RD. SUITE 206 JUPITER, FL 33458 P: 561-203-7503

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REVISIONS:

REV:	DATE:	COMMENT:	BY:

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FINAL TAC SUBMITTAL
11/20/2017

PROJECT No.:	F160XXX
DRAWN BY:	JFV
CHECKED BY:	MDG
DATE:	11-20-2017
CAD I.D.:	F160039 LANDSCAPE PLAN

PROJECT:

STATE RD 84 & SW 30 TH AVENUE

FOR

CUMBERLAND FARMS

HOLLYWOOD
FLORIDA

THOMAS ENGINEERING GROUP
RADICE III
1000 CORPORATE DRIVE, SUITE 250
FORT LAUDERDALE, FL 33334
PH: (954) 202-7000
FX: (954) 202-7070
www.ThomasEngineeringGroup.com

MICHAEL D. GROSSWIRTH
LA 6666871
STATE
REGISTERED LANDSCAPE ARCHITECT
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED ARCHITECT
FLORIDA CERTIFICATE NO. LA6666871
FLORIDA BUSINESS CERTIFICATE AUTH. No. 27528

SHEET TITLE:

LANDSCAPE DETAILS

SHEET NUMBER:

CFG08.2

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C:\2016\CUMBERLAND FARMS\F160039 - SR 84 & SW 30TH AVENUE - HOLLYWOOD\DWG\2017-11-06 - FINAL TAC\LANDSCAPE\F160039 LANDSCAPE PLAN------XLAYOUT: CFG08.2 LANDSCAPE DETAILS

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MICHAEL D. GROSSWIRTH, LA6666871 ON 2017-11-16

LANDSCAPE GENERAL NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL PLANTING AREAS OF THIS CONTRACT UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS, EXISTING OR OTHERWISE, CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP—LINE OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP—LINE.

2. NO MATERIALS SHALL BE BURNED WHERE THE HEAT WILL DAMAGE ANY PLANT. TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY PERCENT (20%) PER INCH OVER FOUR INCHES (4) CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES, OR AS MAY BE REQUIRED BY THE REGULATING GOVERNMENT AGENCY, WHICHEVER IS GREATER. CALIPER SHALL BE MEASURED AT BREAST HEIGHT OR FOUR FEET (4) ABOVE SURROUNDING GROUND.

D. MATERIALS

1. SUBMITTALS: GENERAL SAMPLES OF PLANTING MATERIALS AS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON THE SITE OR AS OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN.
MATERIALS SAMPLE SUBMITTALS
MULCH ONE (1) CUBIC FOOT
TOPSOIL ONE (1) CUBIC FOOT
PLANTS ONE (1) REPRESENTATIVE SAMPLE OF EACH VARIETY

2. PLANT MATERIALS
a) GENERAL. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH "GRADES AND STANDARDS FOR NURSERY PLANTS" PARTS I AND II, LATEST EDITION PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA NO. 1 AS AN ABSOLUTE MINIMUM UNLESS OTHERWISE SUPERCEDED BY A FLORIDA FANCY DESIGNATION, AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL—BRANCHED AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE , AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY . PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE OWNER.

b) MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE TOP OF ROOTBALL (TRUNK FLARE) AND/OR ACROSS THE AVERAGE SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

c) INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER. FOR QUALITY, SIZE, AND VARIETY. SUCH PRELIMINARY APPROVAL SHALL NOT SUPERCEDE THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF BALLS OR ROOTS, LATENT DEFECTS OR INJURIES, PRESENCE OF INSECTS, AND OTHER CONDITIONS THAT MAY HAVE OCCURRED SINCE THE ORIGINAL INSPECTION. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

d) AMENDED PLANTING SOIL. PLANTING SOIL FOR USE IN BACK FILLING PLANTING HOLES SHALL BE FORTY PERCENT (40%) TOPSOIL AND SIXTY PERCENT (60%) SAND AND BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL—DRAINED, ARABLE SITE. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME, LUMPS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS, OR NOXIOUS WEEDS. IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. PH RANGE SHALL BE 5.0 TO 7.0 INCLUSIVE.

e) SAND SHALL BE CLEAN, WELL DRAINING NATIVE SAND. IF REQUESTED, CONTRACTOR SHALL AT ANY TIME AND AT NO COST TO OWNER SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY OWNER.

E. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE GROWTH OF PLANTS AND SHALL NOT CONTAIN HARMFUL NATURAL OR MAN—MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SUCH SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

F. COMMERCIAL FERTILIZER

1. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FORMULA; IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING. THIS FERTILIZER SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

FIFTY PERCENT (50%) OF THE NITROGEN SHALL BE DELIVERED FROM NATURAL ORGANIC SOURCES. THE FOLLOWING FERTILIZERS SHALL BE USED AND APPLIED AT RATES AS SUGGESTED BY MANUFACTURER'S SPECIFICATIONS:

1. SHRUBS AND TREES — MILORGANITE, OR APPROVED EQUAL
2. ANNUALS AND GROUNDCOVERS — OSMOCOTE/SIERRA BLEND 14—14—14
3. SOD — 8—8—8

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIAL SHALL RECEIVE "AGRIFORM" PLANTING TABLETS 24—10—5 FORMULA, 21 GRAM OR EQUAL. THESE TABLETS SHALL BE PLACED AT THE RATE AND DEPTH SPECIFIED BY MANUFACTURER.

G. MULCH

1. MULCH SHALL BE FROM SHREDDED WOOD DERIVED FROM MELALEUCA OR OTHER INVASIVE TREE SPECIES AND SHALL BE STERILIZED TO EFFECTIVELY ELIMINATE ALL SEEDS, SPORES, ETC. AND RENDER THEM BARREN.

2. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE INCHES (3").

3. MULCH SHALL BE GRADE 'B' SHREDDED, AND SHALL BE APPLIED EVENLY AND SMOOTH TO PLANTED AREAS.

4. NO RED OR COLORED MULCH SHALL BE ACCEPTED UNLESS SPECIFIED ACCORDINGLY. NO CYPRESS MULCH SHALL BE USED.

H. DIGGING AND HANDLING

1. PROTECT ROOT SYSTEMS OR ROOTBALLS OF PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS, WATER EROSION, AND OTHER HARMFUL CRITERIA AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT BREAKING AND DRYING OUT DURING LOADING, TRANSIT, AND UNLOADING/PLANTING. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS, AND IN ACCORDANCE WITH "GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. NO PLANT WITH A ROOTBALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. THE ROOTS SHALL NOT BE CUT WITHIN THE MINIMUM SPREAD SPECIFIED IN THE PLANT LIST. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT IN MOVING AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS (IF APPLICABLE). ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS 8" GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. PRUNING PRACTICED OTHER THAN MINIMAL PRUNING OF FRONDS, PRIMARILY TO REACH A "CLEAR TRUNK" SPECIFICATION, MAY CONSTITUTE REJECTION, OR ALL PALMS SUBJECTED TO SUCH PRACTICE. LIKEWISE EXCESSIVE PRUNING OR "SHAVING" OF ROOTBALLS TO MEET "CLEAR TRUNK" CRITERIA MAY CONSTITUTE REJECTION ONSITE. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL ON THE PLANTING DETAILS SHEET.

5. EXCAVATION OF PLANTING HOLES SHALL BE DONE USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS, AND PREPARED SUB—BASES.

I. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL—ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY, COLOR AND HEALTHY GROWING CONDITION, AND SHALL MEET MINIMUM SPECIFICATIONS IN THE PLANT LIST.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. PLANT ROOTS BOUND IN CONTAINERS SHALL NOT BE ACCEPTABLE.

4. SUBSTITUTION OF NON—CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NEED AUTHORIZATION FROM THE OWNER.

J. COLLECTED STOCK

1. WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED ON THE PLANT LIST SCHEDULE, THE MINIMUM SIZES OF ROOT BALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY

K. NATIVE STOCK

1. PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED GROWN WHEN THEY HAVE BEHUN SUCCESSFULLY RESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

L. MATERIALS LIST

1. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN A BIDDER'S TAKE OFF AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO THE SUBMISSION OF BIDS. DRAWING SHALL TAKE PRECEDENCE. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

M. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE, ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT—END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS.

N. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN UP WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY AFFECT THAT VIABILITY OF THE PLANTS TO BE INSTALLED, HE/SHE SHALL IMMEDIA' CALL IT TO THE ATTENTION OF THE OWNER'S CONSTRUCTION MANAGER OR DESIGNEE.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES. INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORM WATER LINES, CABLE AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.

3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB—BASE FROM ALL LANDSCAPE PLANTING AREAS TO MINIMUM DEPTH OF APPROXIMATELY 20% GREATER THAN RECOMMENDED PLANTING SOIL DEPTH. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ONISITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE OR CONTACT OWNER'S CONSTRUCTION MANAGER OR DESIGNEE FOR RESOLUTION.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. GENERAL. COMPLY WITH FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. 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. PLANTS SHALL NOT REMAIN UNPROTECTED FOR A PERIOD EXCEEDING TWENTY—FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.

7. ALL PLANTING HOLES SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE LISA STANDARD TO NURSERY STOCK ZB3.1. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE (SEE MATERIALS, SECTION D). TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE PLANTING DETAIL THAT ADDRESSES THIS CONDITION. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS, CURBS, PAVING, AND OTHER HARDSCAPE MATERIALS WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION D (MATERIALS) OF THESE SPECIFICATIONS. IN ADDITION, EACH PLANTING HOLE SHALL RECEIVE 21—GRAM "AGRIFORM" PLANTING TABLETS PER MANUFACTURER'S SPECIFICATIONS OR AS FOLLOWS:
— TWO (2) TABLETS PER 1 GAL. PLANT
— THREE (3) TABLETS PER 3 GAL. PLANT
— FOUR (4) TABLETS PER 10 GAL. PLANT
LARGER MATERIAL
— TWO (2) TABLETS PER HALF INCH (1/2") OF TRUNK CALIPER

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AND AT SUCH A LEVEL THAT AFTER SETTLEMENT, THE TOP OF THE ROOT SYSTEM (FOR SHRUBS AND GROUNDCOVER) OR TRUNK FLARE (TREES AND PALMS) WILL STAND ONE (1) TO TWO (2) INCHES ABOVE FINAL GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PLANTING HOLE. PLANTING SOIL MIXTURE SHALL BE BACKFILLED AND THOROUGHLY TAMPED AROUND THE BALL AND SHALL BE SETTLED BY WATER AFTER TAMPING.

11. FILL HOLE WITH SOIL MIXTURE. MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES. TURNING SOIL IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET OR OTHER TAMPING DEVICE. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, ETC., SHALL BE PULLED FROM UNDERNEATH.

12. PRUNING: FOR DAMAGED OR BROKEN LIMBS, EACH TREE SHALL BE PRUNED TO PRESERVE THE NATURAL CHARACTER OF THE SPECIES. ALL SUCKER GROWTH SHALL BE COMPLETELY REMOVED PRIOR TO DIGGING.

13. SHRUBS AND GROUNDCOVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED IN THE PLANT LIST. CULTIVATE ALL MASS PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSED ALL DEBRIS, TILL 4" OF PLANTING SOIL MIX INTO THE NEWLY TILLED PLANTING BED FOR GENERAL NUTRIENT DISBURSEMENT. MASS PLANTING BED IS NOW READY TO RECEIVE HOLES FOR NEW PLANTS. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

14. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE LANDSCAPE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. TREES SHALL USE ARBORTIE AS PER DETAIL SHEET. PALMS SHALL USE WOOD BRACING PER DETAIL SHEET.

15. MULCHING: PROVIDE A THREE INCH (3") MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUNDCOVER AND VINE BED AND TREE PIT (FOR TREES AND PALMS, MIN. THREE INCH (3") FROM EDGE OF TRUNKS) -- UNLESS OTHER REQUIRED BY LOCAL CODES AND SPECIFIED AS SUCH.

16. SYSTEMIC HERBICIDE WEED CONTROL ALL PLANT BEDS SHALL BE KEPT FREE OF NOXICOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER OR THEIR DESIGNEE, A SYSTEMIC HERBICIDE SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. AFTER MULCH HAS BEEN APPLIED TO PLANTING BEDS AND TREE RINGS, TREAT ALL MULCHED AREAS WITH AN APPROVED PRE—EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.

O. LAWN SODDING

STENOTAPHRUM SECUNDATUM, V. 'FLORITAM' UNLESS OTHERWISE NOTED. (ST. AUGUSTINE SOLID SOD).
1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING.
COMPLETE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A GRASS LAWN ACCEPTABLE TO THE OWNER AND GOVERNING AGENCIES.
2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE SOIL BROUGHT TO AN EVEN PREPARED GRADE TO ALLOW FOR SOIL PREPARATION BELOW.

3. SOIL PREPARATION: PREPARE LOOSE BED FOUR INCHES (4") DEEP. APPLY FERTILIZER AT A RATE OF TWENTY (20) POUNDS PER ONE THOUSAND (1000) SQUARE FEET. APPLICATION SHALL BE UNIFORM, UTILIZING COMMERCIAL BROADCAST SPREADERS. MIX FERTILIZER THOROUGHLY WITH THE SOIL TO A DEPTH OF THREE INCHES (3"). HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY TO PREPARE FOR SOD INSTALLATION.

4. SODDING: THE CONTRACTOR SHALL SOD ALL PERVIOUS AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS TO CREATE A UNIFORM, NEW TURF BLANKET FOR THE SITE.

a) THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETY TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS, AND DISEASE OF ANY KIND. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER TO MAKE A SOLID, SODDED LAWN AREA.

b) SOD SHALL BE LAID IN ROWS. WITH EVERY OTHER ROW STAGGERED HALFWAY BETWEEN THE NEXT TO INSURE NO CONTINUOUS STACKED JOINTS. SEW JOINTS OF SOD TO INSURE A TIGHT FIT AT JOINTS.

c) SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A FOUR INCH (4") MULCH STRIP SHALL BE PROVIDED, IMMEDIATELY FOLLOWING SOD LAYING. THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED TO THOROUGHLY MOISTEN THE SOIL BENEATH. IF, IN THE OPINION OF THE OWNER, TOP—DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND AS APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN.

5. DURING DELIVERY, PRIOR TO AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE INSTALLED DURING THE DAY OF ITS ARRIVAL.

6. LAWN MAINTENANCE:

a) WITHIN THE SITE, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE—SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY OWNER OR AS IN THE ORIGINAL WORK SCOPE AND PROCESS (INCLUDING REGRADING, IF NECESSARY).

b) WATER EVERY DAY FOR FOURTEEN (14) SUCCESSIVE DAYS, THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) UNTIL FULLY ESTABLISHED OR UNTIL AUTOMATIC IRRIGATION SYSTEM IS FULLY OPERATIONAL AND PROGRAMMED ACCORDINGLY. COORDINATE WATERING SCHEDULE WITH NATURAL RAINFALL. RAINFALL EVENTS IN DURATION OF TWENTY (20) MINUTES OR MORE THAT PRODUCE MORE THAN A HALF INCH (1/2") OF PRECIPITATION WILL NEGATE THE NEED FOR WATERING THE FOLLOWING DAY IF PREVIOUSLY SCHEDULED. ALL WATERING SHALL BE OF SUFFICIENT QUANTITY TO WET OR RESTORE WATER TO A DEPTH OF FOUR INCHES (4").

P. CLEANUP

1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

Q. PLANT MATERIAL MAINTENANCE

1. ALL PLANTS AND PLANTING MATERIALS INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE—STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF NINETY (90) CALENDAR DAYS COMMENCING AFTER ACCEPTANCE (SEE NEXT SECTION).

R. MAINTENANCE (ALTERNATE BID ITEM)

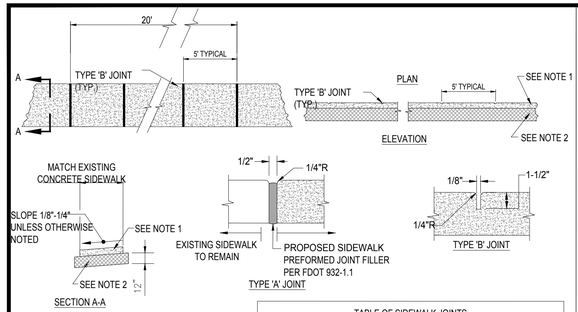
1. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR LANDSCAPE AND IRRIGATION MAINTENANCE FOLLOWING THE INITIAL 90—DAY MAINTENANCE PERIOD ON A COST PER MONTH BASIS.

S. GUARANTEE

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE.

2. THE LIFE AND SATISFACTORY CONDITION OF ALL SOD INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM OF NINETY (90) CALENDAR DAYS, COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNERS OR OWNER'S DESIGNEE.

3. REPLACEMENT. ANY PLANT NOT IN A HEALTHY, THRIVING GROWING CONDITION SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. SHOULD THE OWNER ELECT, TREES AND PALMS MAY BE GIVEN A PERIOD OF NINETY (90) DAYS BEFORE REMOVAL TO ALLOW THE CONTRACTOR TO RESURRECT THE TREE OR PALM IN QUESTION AND BRING IT TO A THRIVING, HEALTHY CONDITION. ALL REPLACEMENTS SHALL BE PLANTS OF LIKE KIND, CONDITION AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED, AND MULCHED AS SPECIFIED WITHIN THESE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER. ANY REPAIRS FROM THIS REPLACEMENT MATERIAL SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT MATERIAL SHALL BE GUARANTEED TO A ONE (1) YEAR PERIOD FROM THE DAY OF REPLACEMENT



FOR SIDEWALK ALONG WILES ROAD WITHIN BROWARD COUNTY RIGHT-OF-WAY, REFER TO BROWARD COUNTY MINIMUM STANDARDS 6-1.14 TYPICAL DETAIL DWG NO. 14 (REV 06/01/15). CONCRETE IS TO BE 6" MINIMUM WITHIN THE COUNTY R/W CLASS 1 3,000 PSI COMPACTED TO 100% MAX. DENSITY PER AASHTO T-99

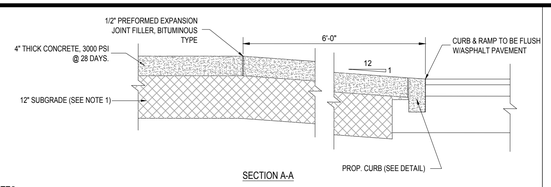
TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	AT CONNECTION BETWEEN NEW AND EXISTING SIDEWALK
'B'	5 FEET CENTER TO CENTER ON SIDEWALKS.

NOTES:

1. SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".
2. SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180. (12" THICKNESS)
3. CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
4. SIDEWALK REMOVAL & REPLACEMENTS TO CONSIST OF FULL FLAGS.
5. PROVIDE EXPANSION JOINT (TYPE 'A') AT CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALK.

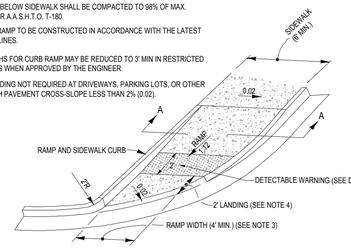
1 SIDEWALK DETAILS

SCALE: NONE



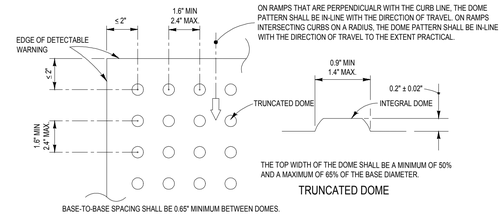
NOTES:

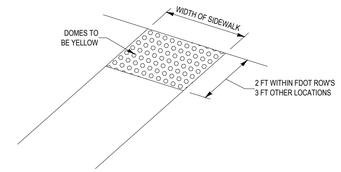
1. SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180.
2. HANDICAP RAMP TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADA GUIDELINES.
3. RAMP WIDTHS FOR CURB RAMP MAY BE REDUCED TO 3' MIN IN RESTRICTED CONDITIONS WHEN APPROVED BY THE ENGINEER.
4. LOWER LANDING NOT REQUIRED AT DRIVEWAYS, PARKING LOTS, OR OTHER AREAS WITH PAVEMENT CROSS-SLOPE LESS THAN 2% (0.02).



2 ADA CURB RAMP DETAIL - FDOT INDEX #304

SCALE: NONE

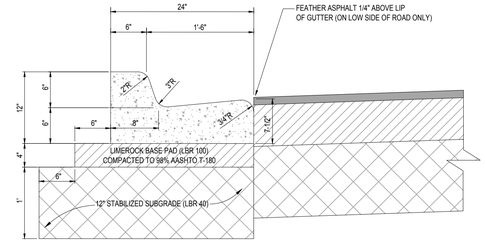




ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610 mm) FROM THE BACK OF CURB WITHIN FDOT ROW'S AND 36 INCHES (914.4 mm) FROM THE BACK OF CURB AT ALL OTHER LOCATIONS.

3 ADA RAMP DETECTABLE WARNING DETAIL

SCALE: NONE



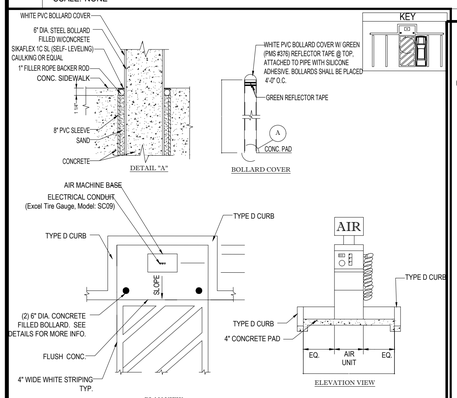
FOR CURB & GUTTER ALONG WILES ROAD WITHIN BROWARD COUNTY RIGHT-OF-WAY, REFER TO BROWARD COUNTY MINIMUM STANDARDS 6-1.10. CONCRETE IS TO BE 3,000 PSI @ 98 DAYS W/ 4" THICK CURB PAD LBR 100 COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180

NOTE :

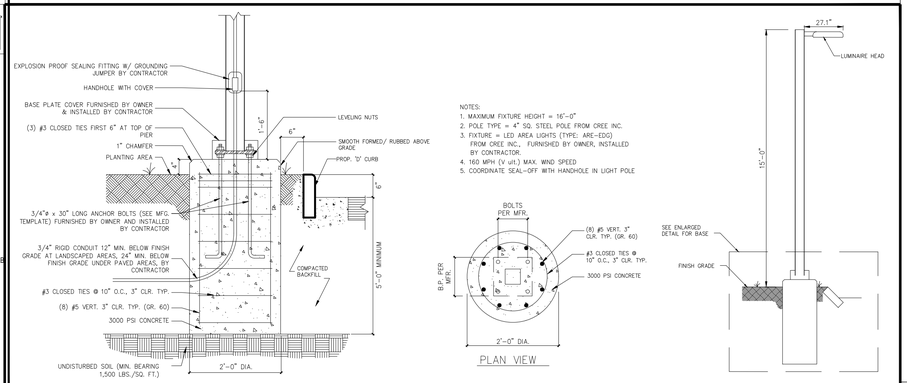
1. WHEN USED ON HIGH SIDE OF ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" INSTEAD OF 7 1/2".
2. REFER TO FDOT INDEX 300 FOR NOTES AND DETAILS
3. LIMEROCK BASE SHALL BE COMPACTED TO A 98% MAX. DENSITY PER A.A.S.H.T.O. (T-180)
4. 12" SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. (T-180)

4 TYPE 'F' CURB & GUTTER DETAIL

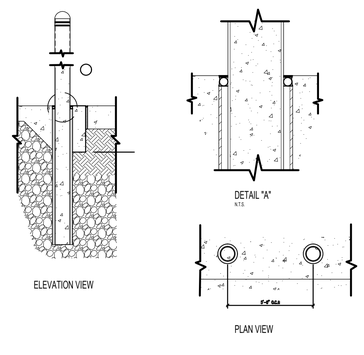
SCALE: NONE



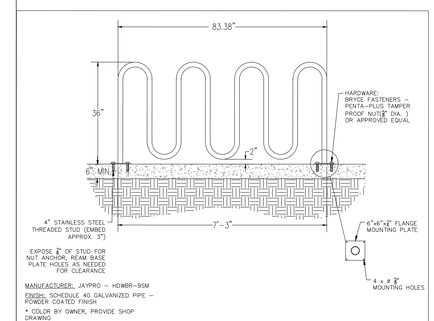
CFI AIR MACHINE DETAIL (EXCEPT CT.) N.T.S.



LIGHT POLE DETAIL AT LANDSCAPED AREAS - FLORIDA ONLY - N.T.S.



BOLLARD SET IN CONCRETE WALK - FLORIDA ONLY - N.T.S.



BIKE RACK DETAIL - FLORIDA ONLY - N.T.S.

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
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4950 W. KENNEDY BLVD. SUITE 600 TAMPA, FL 33609 P: 813-379-4100
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11/20/2017

PROJECT No.:	F160039
DRAWN BY:	JFV
CHECKED BY:	MAT
DATE:	11-20-2017
CAD I.D.:	F160039 CONSTRUCTION DETAILS

PROJECT:

CUMBERLAND FARMS STATE ROAD 84 & SW 30TH AVENUE

FOR

CUMBERLAND FARMS, INC.

CITY OF HOLLYWOOD
BROWARD COUNTY, FLORIDA

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November 17, 2017
FLORIDA LICENSE No. 50572
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER:

CFG09.0

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